

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102721\
 Data File : VD070872.D
 Acq On : 27 Oct 2021 19:06
 Operator : VA/SY
 Sample : M4372-05
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

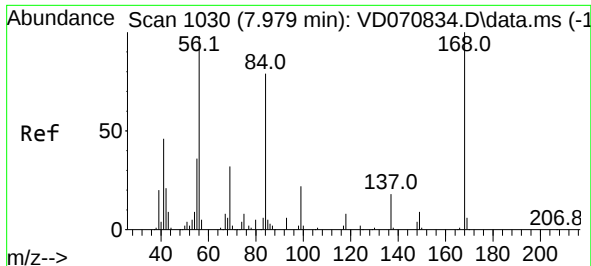
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 28 03:59:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D102621S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 27 05:34:47 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.967	168	16277	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.855	114	27220	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	36988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	19052	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	13441	82.104	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 164.200%#	
35) Dibromofluoromethane	7.909	113	10762	59.964	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 119.920%	
50) Toluene-d8	10.332	98	35246	52.200	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 104.400%	
62) 4-Bromofluorobenzene	12.620	95	18024	80.904	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 161.800%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	518	2.425	ug/l #	42
5) Bromomethane	2.785	94	1131	3.956	ug/l #	64
10) Methyl Iodide	4.326	142	201	4.556	ug/l #	40
16) Acetone	4.150	43	1011	26.545	ug/l #	40
20) Methylene Chloride	4.950	84	390	Below Cal	#	74
25) 2-Butanone	7.197	43	67	1.429	ug/l #	45
36) 1,1-Dichloropropene	7.985	75	749	2.630	ug/l #	41
38) Carbon Tetrachloride	7.967	117	1684	5.880	ug/l #	12
41) Methacrylonitrile	7.538	41	58	1.035	ug/l #	12
46) Dibromomethane	9.503	93	185	1.719	ug/l #	1
51) 4-Methyl-2-Pentanone	10.203	43	324	3.139	ug/l #	34
55) 1,1,2-Trichloroethane	10.785	97	321	2.103	ug/l #	39
56) Ethyl methacrylate	10.661	69	471	5.217	ug/l #	28
59) 2-Hexanone	10.979	43	271	3.678	ug/l #	22
61) 1,2-Dibromoethane	11.202	107	419	2.974	ug/l	99
71) Bromoform	12.344	173	549	3.690	ug/l #	90
74) N-amyl acetate	12.285	43	604	2.161	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.696	83	4865	18.761	ug/l #	30
76) 1,2,3-Trichloropropane	12.614	75	7115	37.936	ug/l #	1
79) 2-Chlorotoluene	12.885	91	1481	1.564	ug/l #	51
81) trans-1,4-Dichloro-2-b...	12.614	75	7115	99.570	ug/l #	24
83) tert-Butylbenzene	13.208	119	1935	2.152	ug/l #	53
86) p-Isopropyltoluene	13.502	119	1408	1.234	ug/l #	68
92) 1,2-Dibromo-3-Chloropr...	14.514	75	57	1.509	ug/l #	1
95) Naphthalene	15.385	128	3537	9.548	ug/l #	66

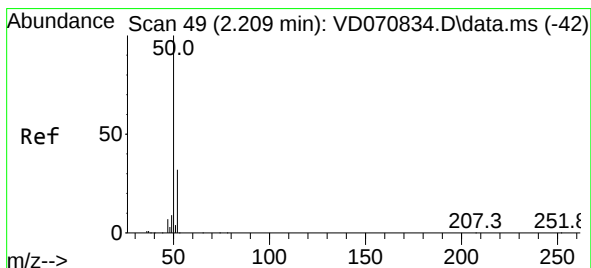
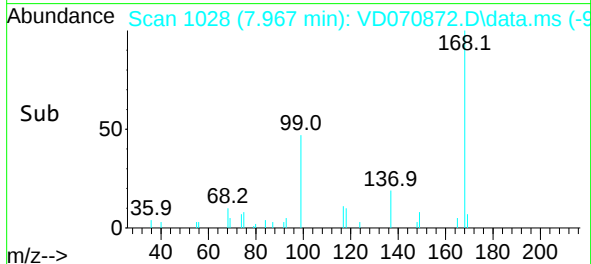
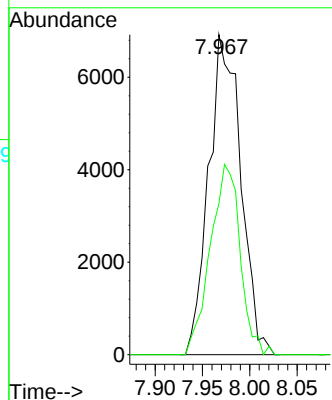
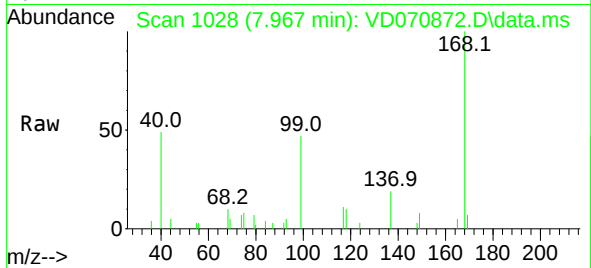
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.012 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

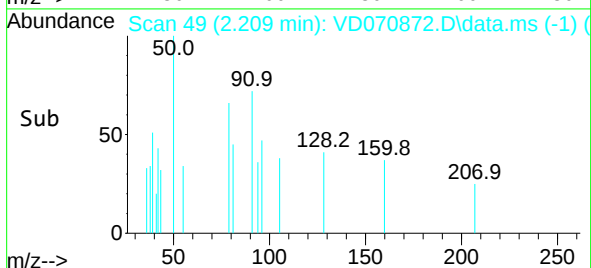
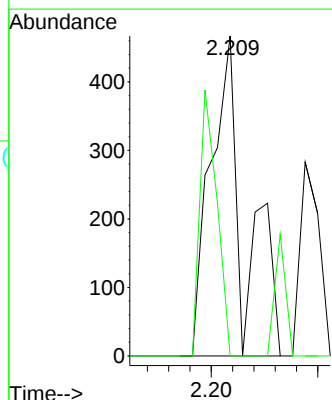
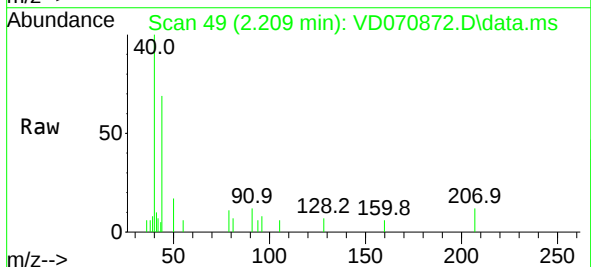
Instrument :
MSVOA_D
ClientSampled :

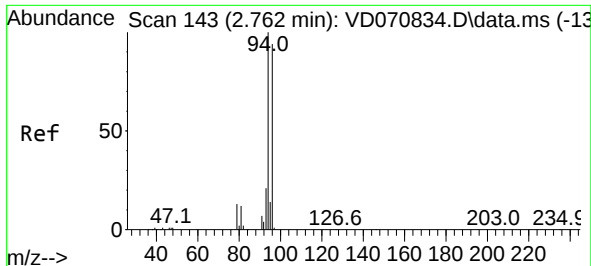
Tgt Ion:168 Resp: 16277
Ion Ratio Lower Upper
168 100
99 47.2 46.6 69.8



#3
Chloromethane
Concen: 2.425 ug/l
RT: 2.209 min Scan# 49
Delta R.T. 0.000 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 50 Resp: 518
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

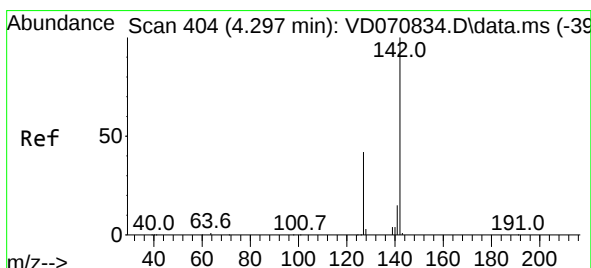
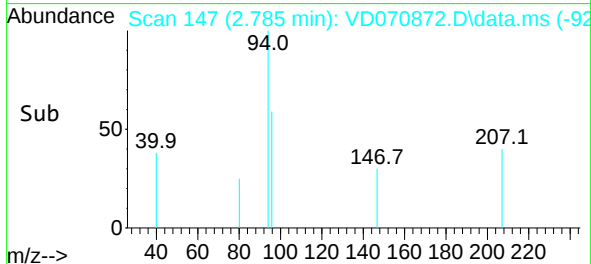
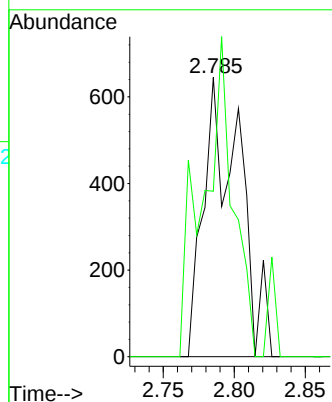
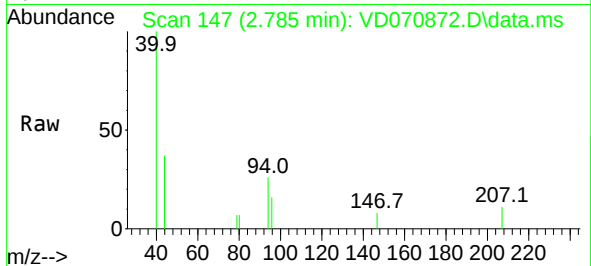




#5
Bromomethane
Concen: 3.956 ug/l
RT: 2.785 min Scan# 147
Delta R.T. 0.023 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

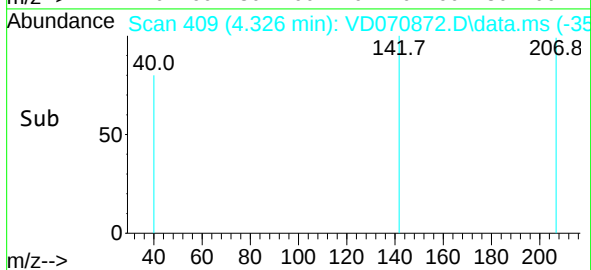
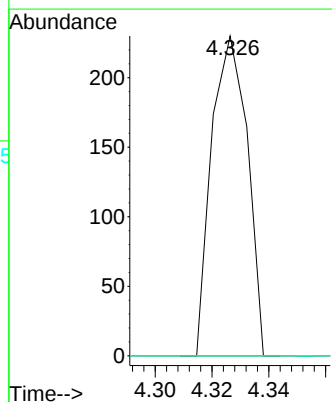
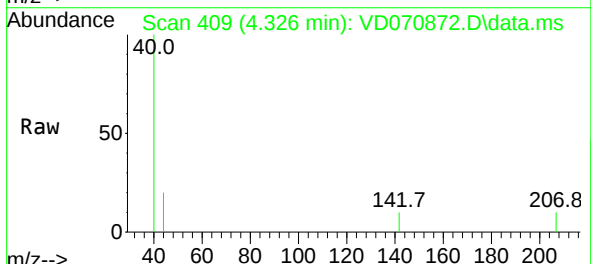
Instrument :
MSVOA_D
ClientSampled :

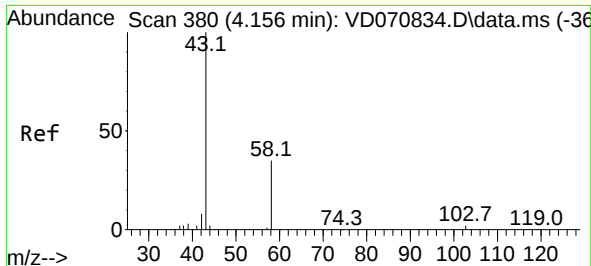
Tgt Ion: 94 Resp: 1131
Ion Ratio Lower Upper
94 100
96 59.2 74.8 112.2#



#10
Methyl Iodide
Concen: 4.556 ug/l
RT: 4.326 min Scan# 409
Delta R.T. 0.029 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion:142 Resp: 201
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

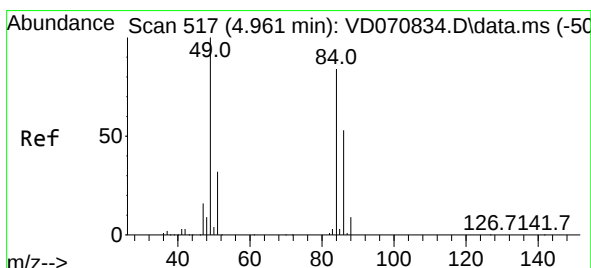
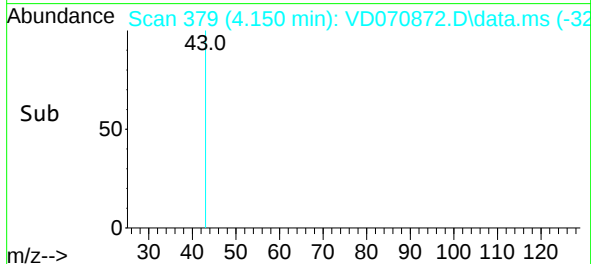
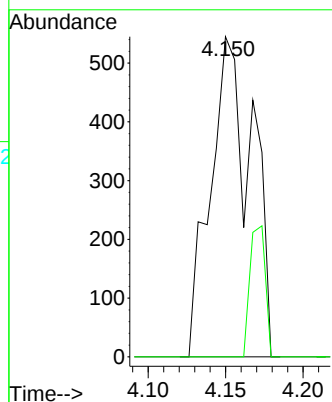
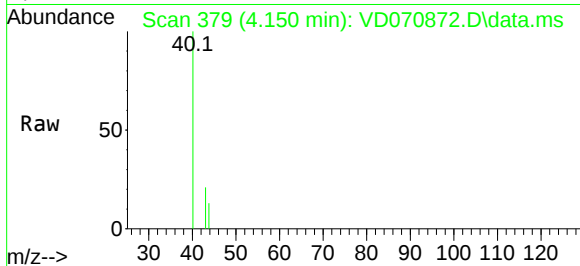




#16
Acetone
Concen: 26.545 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

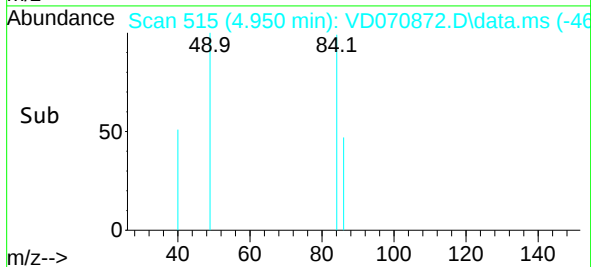
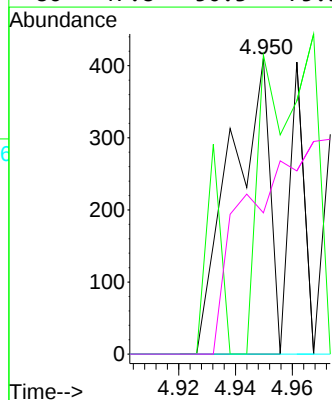
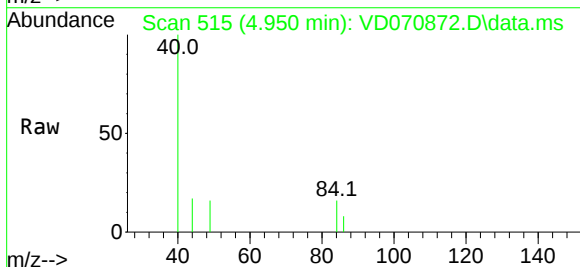
Instrument :
MSVOA_D
ClientSampled :

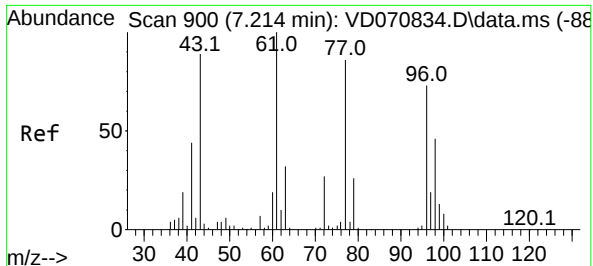
Tgt Ion: 43 Resp: 1011
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.950 min Scan# 515
Delta R.T. -0.011 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 84 Resp: 390
Ion Ratio Lower Upper
84 100
49 101.2 95.8 143.6
51 0.0 30.9 46.3#
86 47.8 50.3 75.5#

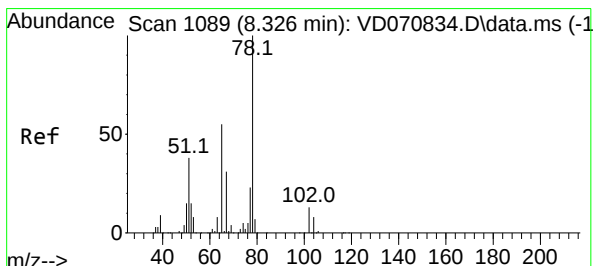
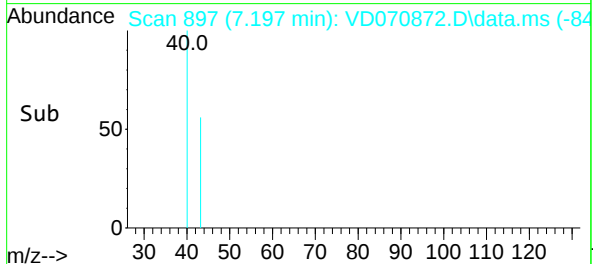
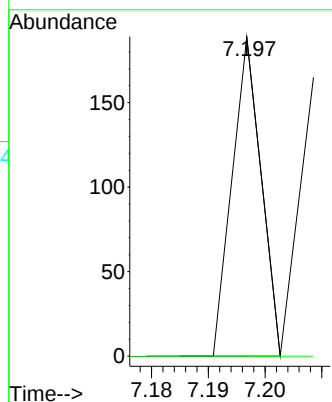
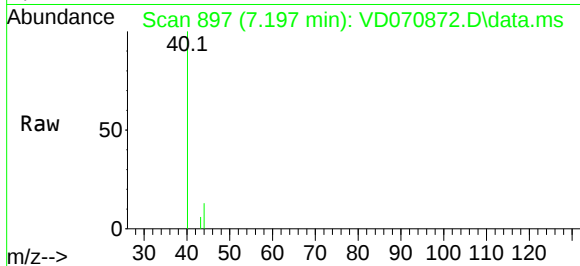




#25
2-Butanone
Concen: 1.429 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.017 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

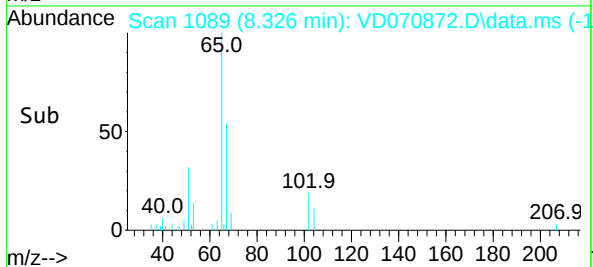
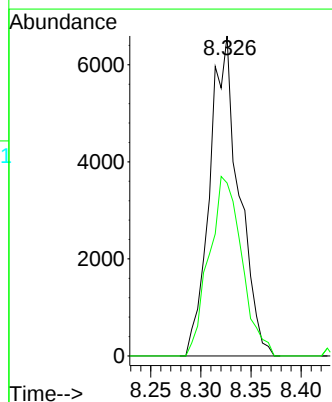
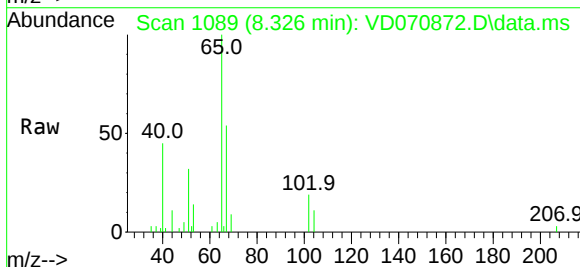
Instrument :
MSVOA_D
ClientSampleId :

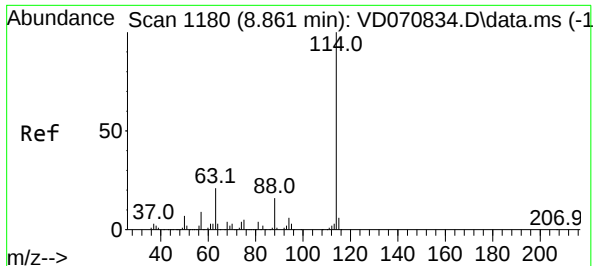
Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#33
1,2-Dichloroethane-d4
Concen: 82.104 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 65 Resp: 13441
Ion Ratio Lower Upper
65 100
67 62.3 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

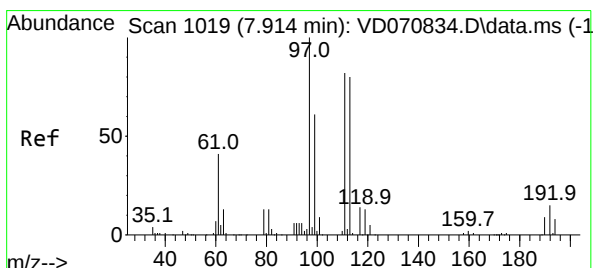
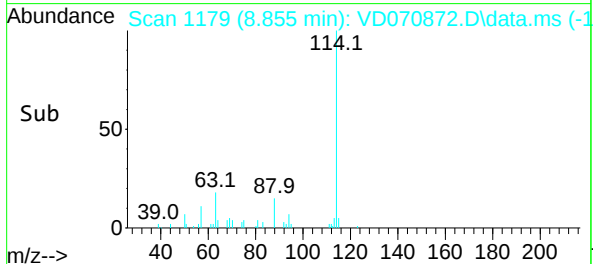
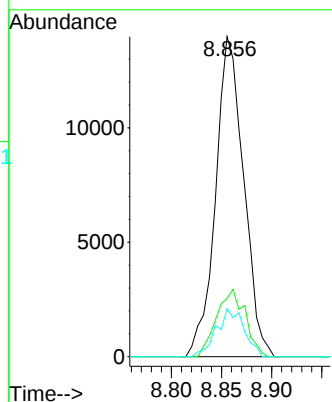
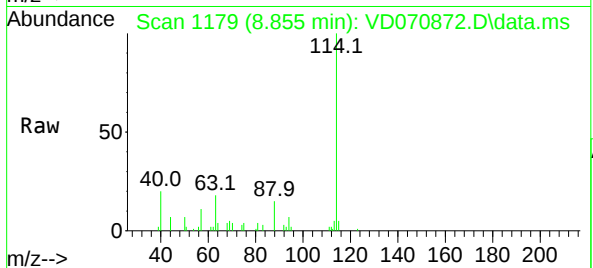
Delta R.T. -0.006 min

Lab File: VD070872.D

Acq: 27 Oct 2021 19:06

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:114	Resp:	27220
Ion Ratio	Lower	Upper
114	100	
63	18.3	0.0 41.8
88	15.0	0.0 32.8



#35

Dibromofluoromethane

Concen: 59.964 ug/l

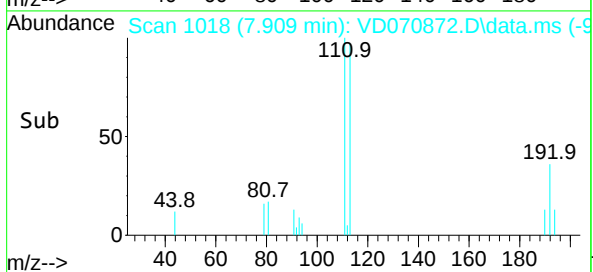
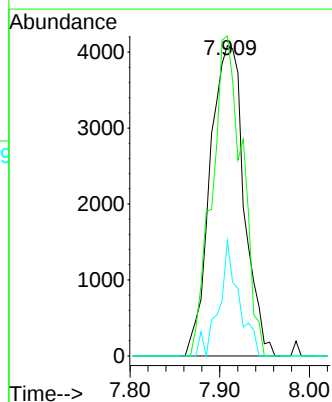
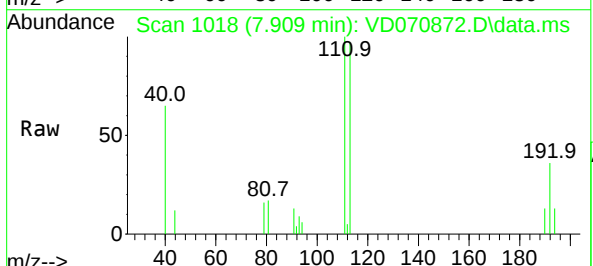
RT: 7.909 min Scan# 1018

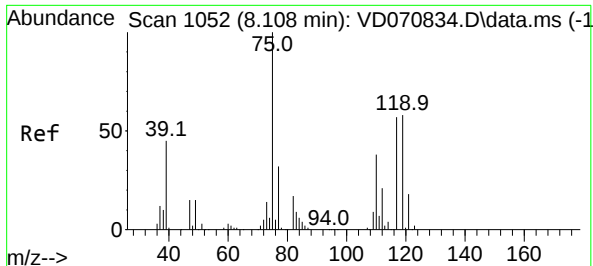
Delta R.T. -0.006 min

Lab File: VD070872.D

Acq: 27 Oct 2021 19:06

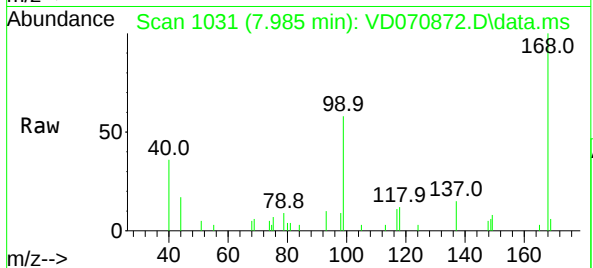
Tgt Ion:113	Resp:	10762
Ion Ratio	Lower	Upper
113	100	
111	92.5	82.0 123.0
192	21.6	15.2 22.8



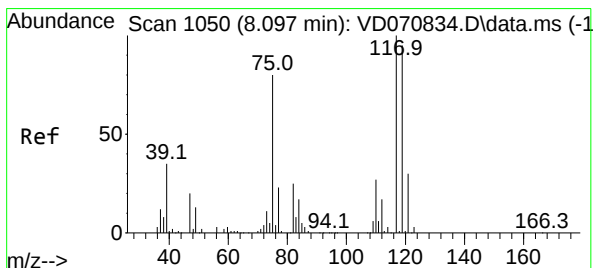
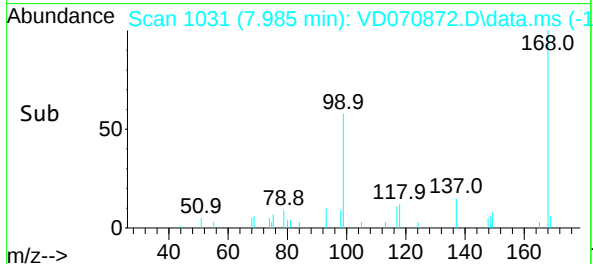
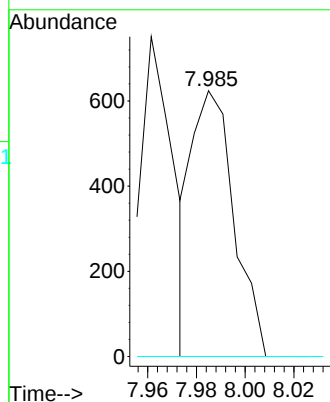


#36
1,1-Dichloropropene
Concen: 2.630 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.123 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

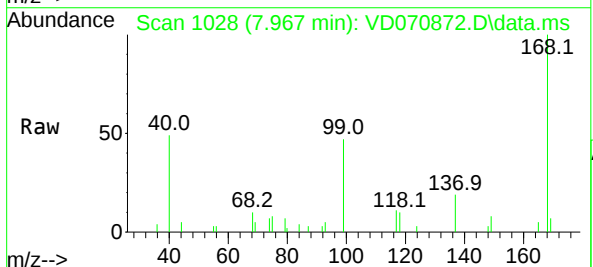
Instrument :
MSVOA_D
ClientSampleId :



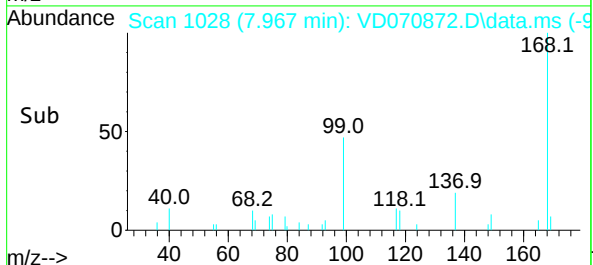
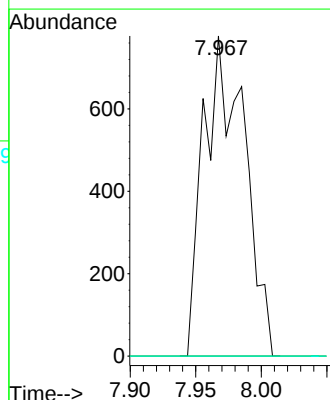
Tgt Ion: 75 Resp: 749
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#

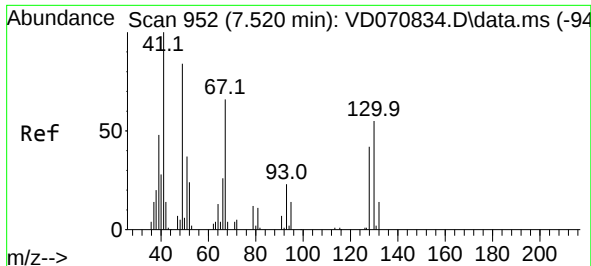


#38
Carbon Tetrachloride
Concen: 5.880 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.129 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06



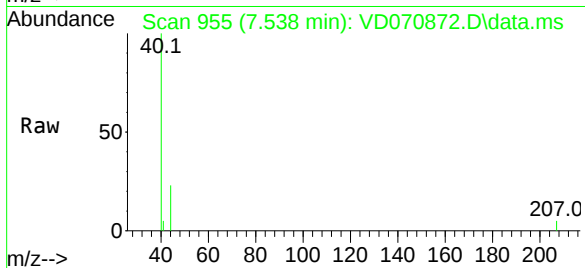
Tgt Ion: 117 Resp: 1684
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



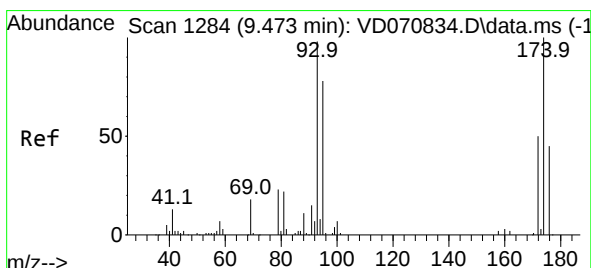
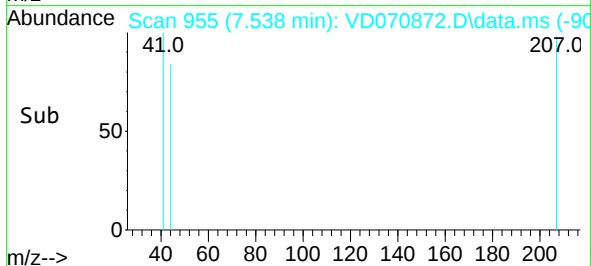
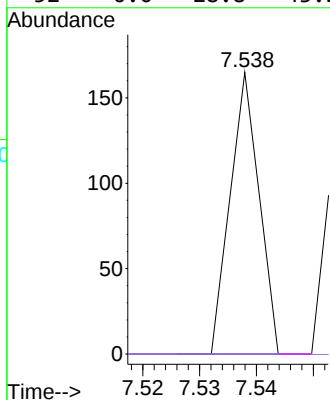


#41
Methacrylonitrile
Concen: 1.035 ug/l
RT: 7.538 min Scan# 955
Delta R.T. 0.018 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

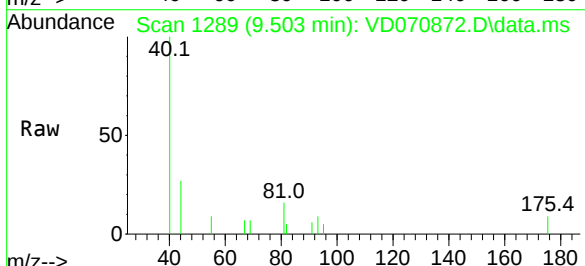
Instrument :
MSVOA_D
ClientSampleId :



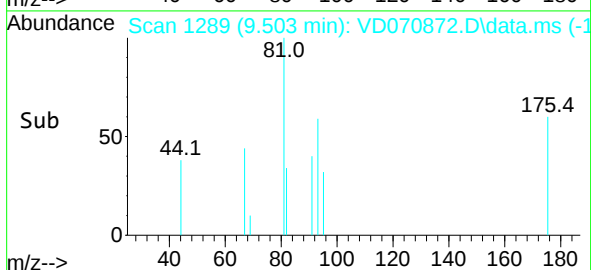
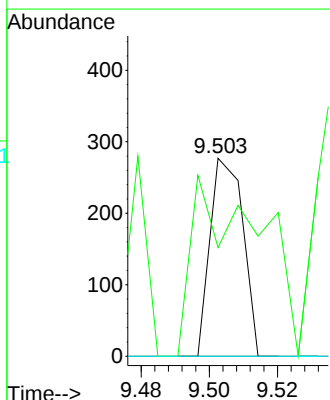
Tgt Ion:	41	Resp:	58
Ion	Ratio	Lower	Upper
41	100		
39	0.0	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#

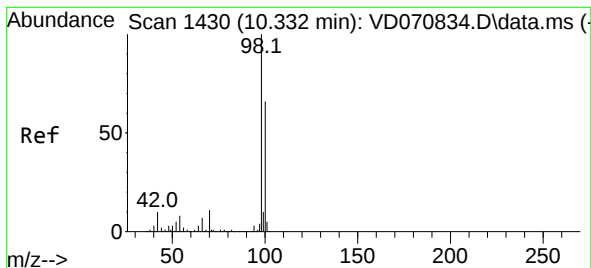


#46
Dibromomethane
Concen: 1.719 ug/l
RT: 9.503 min Scan# 1289
Delta R.T. 0.030 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06



Tgt Ion:	93	Resp:	185
Ion	Ratio	Lower	Upper
93	100		
95	188.1	66.1	99.1#
174	0.0	78.6	117.8#

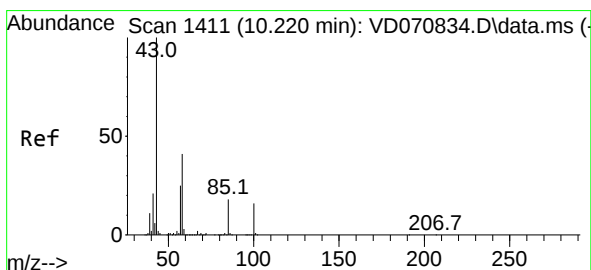
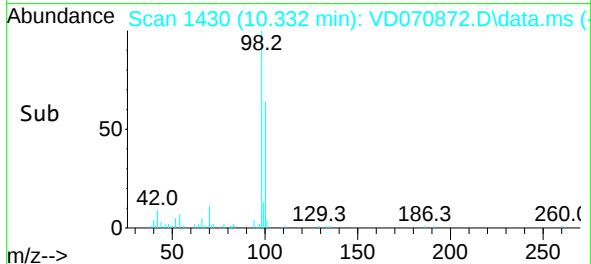
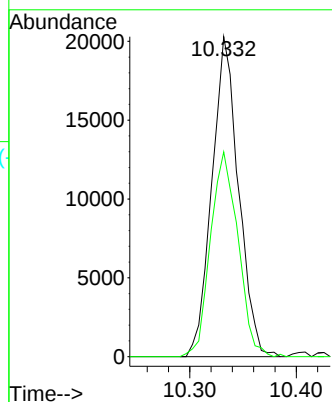
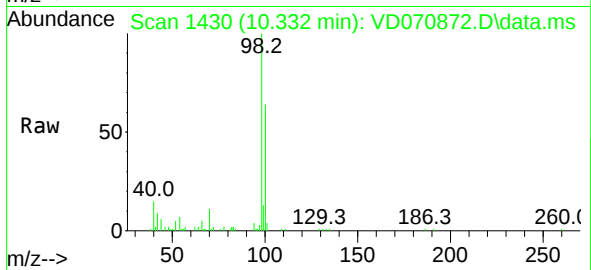




#50
Toluene-d8
Concen: 52.200 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

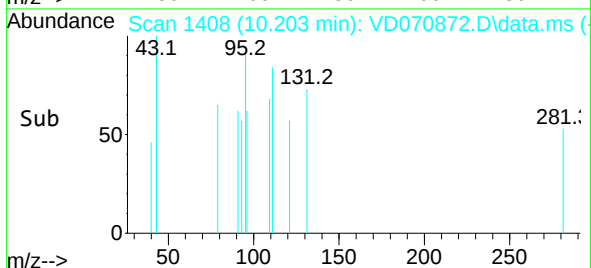
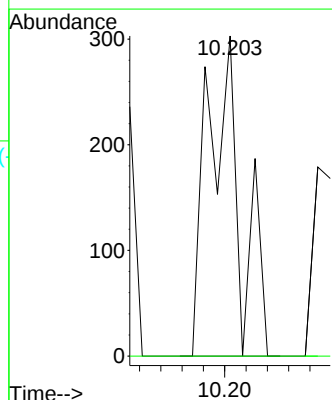
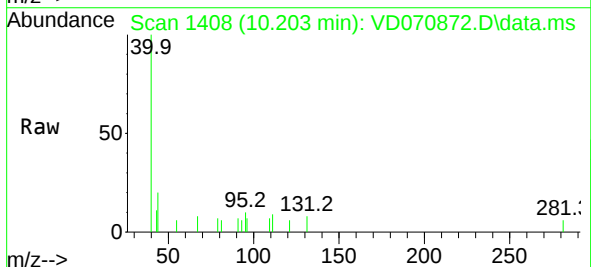
Instrument :
MSVOA_D
ClientSampled :

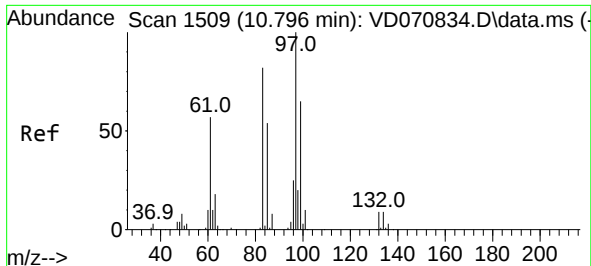
Tgt Ion: 98 Resp: 35246
Ion Ratio Lower Upper
98 100
100 66.1 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 3.139 ug/l
RT: 10.203 min Scan# 1408
Delta R.T. -0.017 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 43 Resp: 324
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

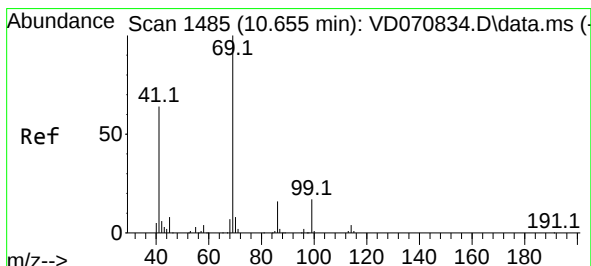
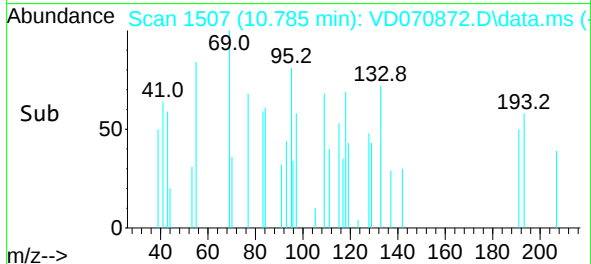
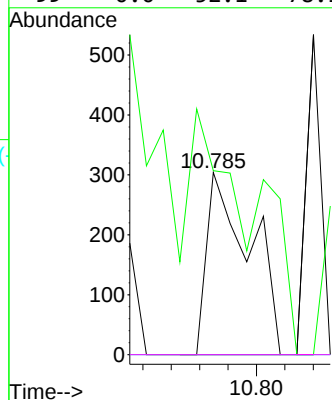
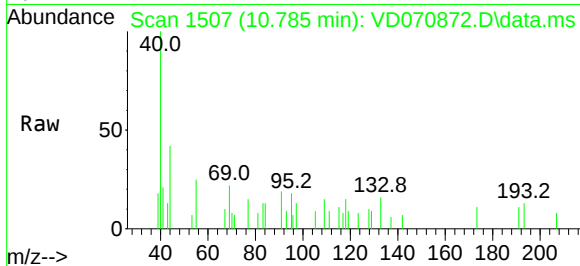




#55
1,1,2-Trichloroethane
Concen: 2.103 ug/l
RT: 10.785 min Scan# 1507
Delta R.T. -0.012 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

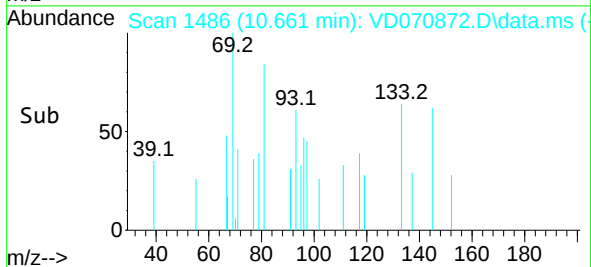
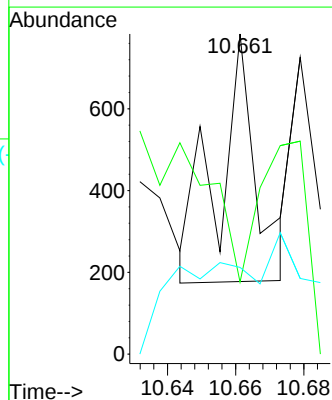
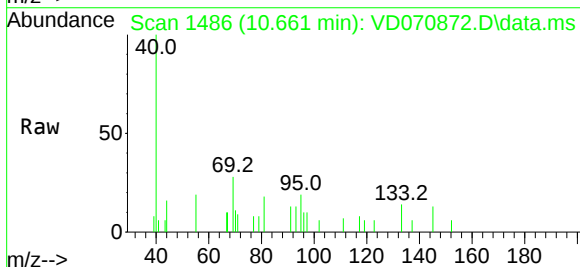
Instrument :
MSVOA_D
ClientSampleId :

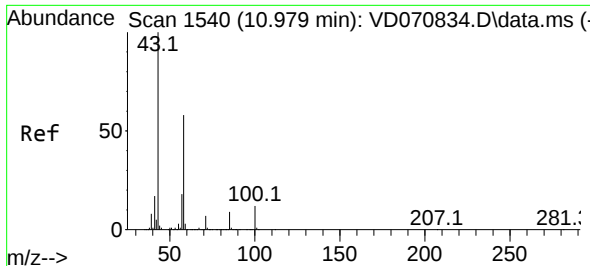
Tgt Ion: 97	Resp:	321
Ion	Ratio	Lower Upper
97	100	
83	50.0	65.2 97.8#
85	0.0	43.4 65.0#
99	0.0	52.1 78.1#



#56
Ethyl methacrylate
Concen: 5.217 ug/l
RT: 10.661 min Scan# 1486
Delta R.T. 0.006 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 69	Resp:	471
Ion	Ratio	Lower Upper
69	100	
41	0.0	50.2 75.2#
39	0.0	19.8 29.8#

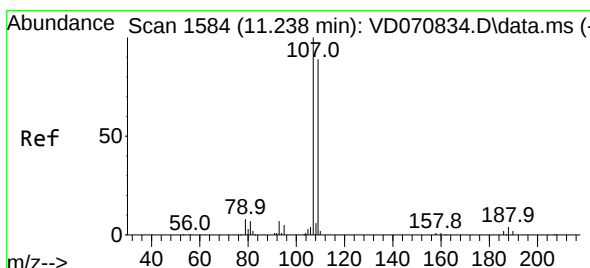
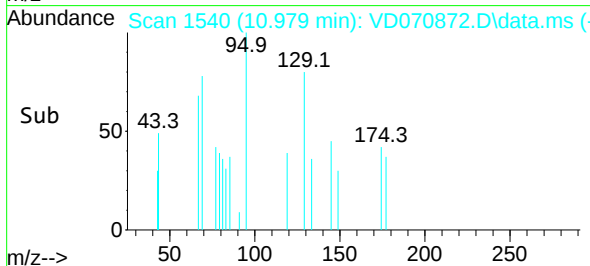
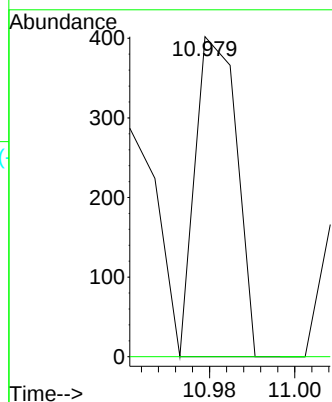
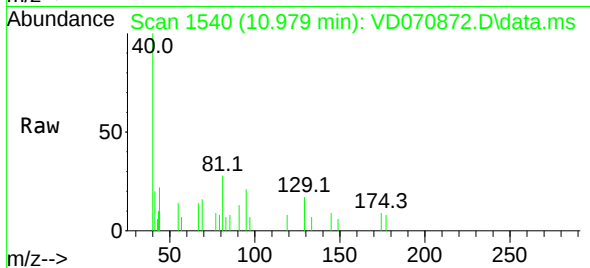




#59
2-Hexanone
Concen: 3.678 ug/l
RT: 10.979 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

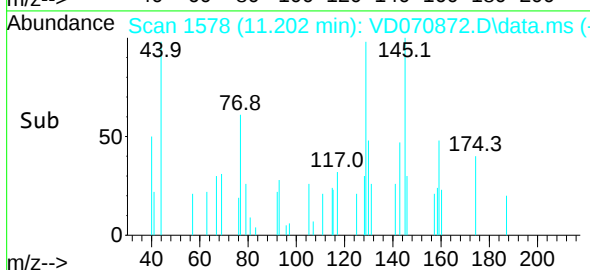
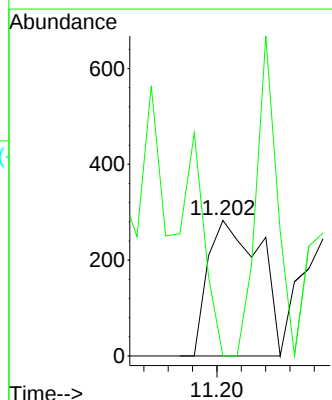
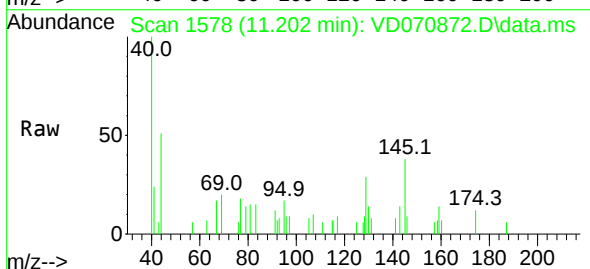
Instrument :
MSVOA_D
ClientSampled :

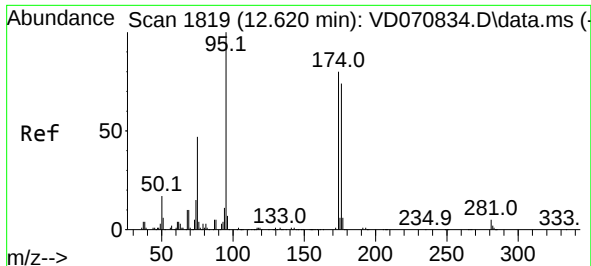
Tgt Ion: 43 Resp: 271
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#61
1,2-Dibromoethane
Concen: 2.974 ug/l
RT: 11.202 min Scan# 1578
Delta R.T. -0.035 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 107 Resp: 419
Ion Ratio Lower Upper
107 100
109 94.3 74.6 112.0

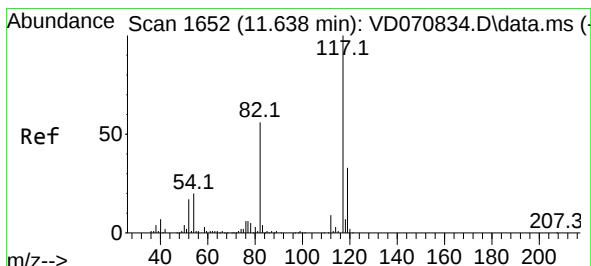
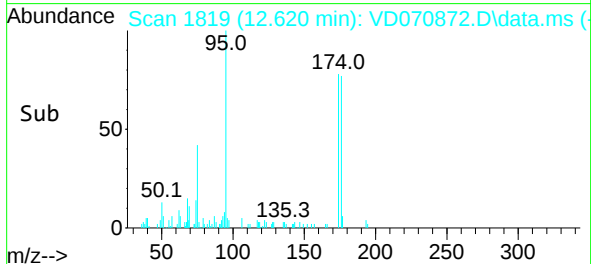
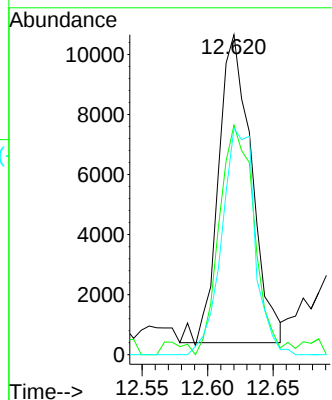
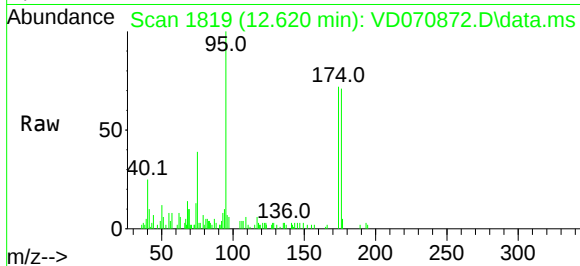




#62
4-Bromofluorobenzene
Concen: 80.904 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

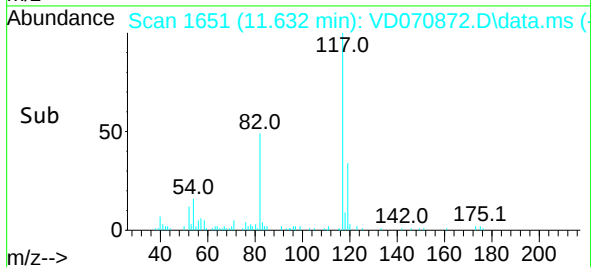
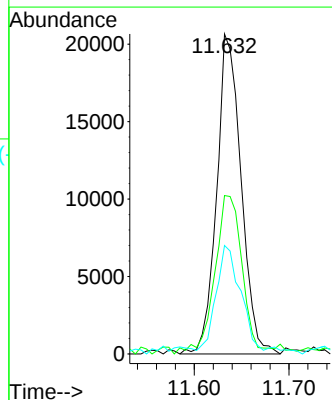
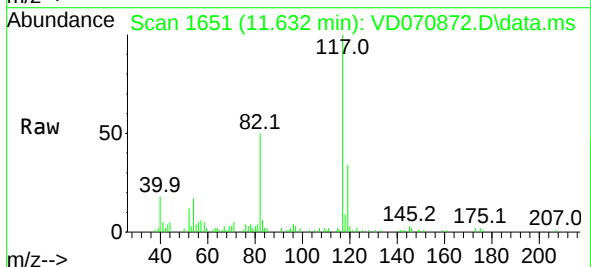
Instrument :
MSVOA_D
ClientSampleId :

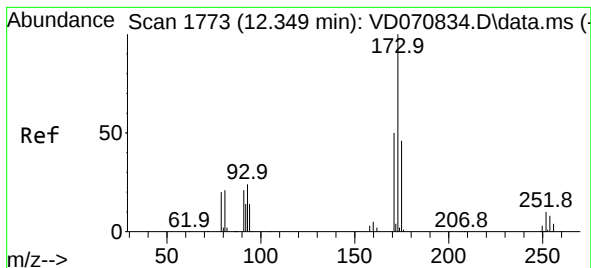
Tgt Ion: 95 Resp: 18024
Ion Ratio Lower Upper
95 100
174 78.7 0.0 159.4
176 73.4 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.006 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 117 Resp: 36988
Ion Ratio Lower Upper
117 100
82 47.6 44.7 67.1
119 32.8 26.2 39.4





#71

Bromoform

Concen: 3.690 ug/l

RT: 12.344 min Scan# 1772

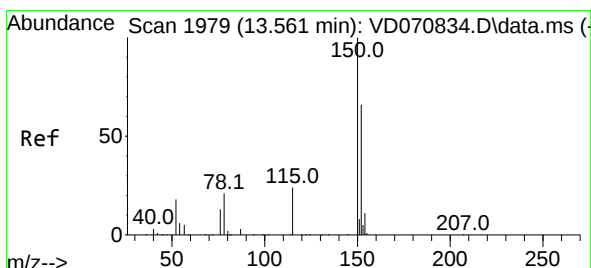
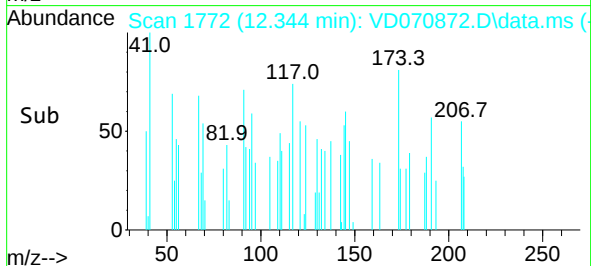
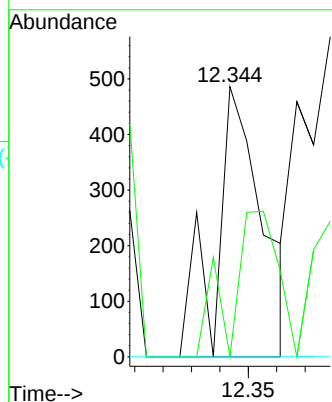
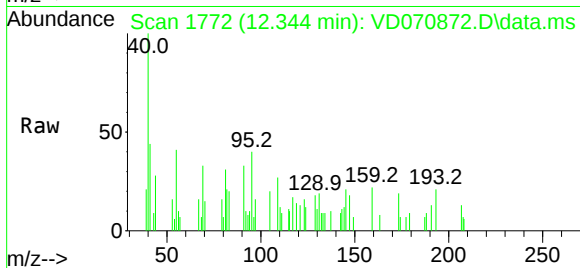
Delta R.T. -0.006 min

Lab File: VD070872.D

Acq: 27 Oct 2021 19:06

Tgt Ion:	173	Resp:	549
Ion Ratio	Lower	Upper	
173	100		
175	55.0	24.1	72.2
254	0.0	0.1	0.1#

Instrument :
MSVOA_D
ClientSampleId :



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

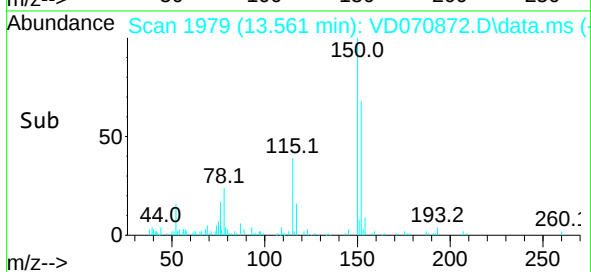
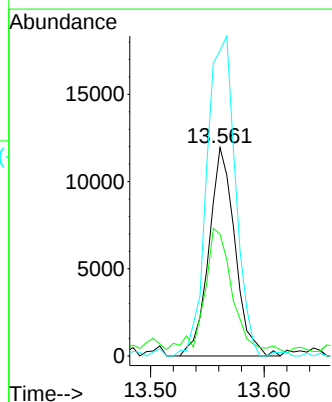
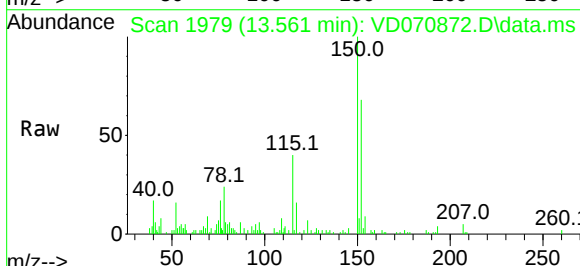
RT: 13.561 min Scan# 1979

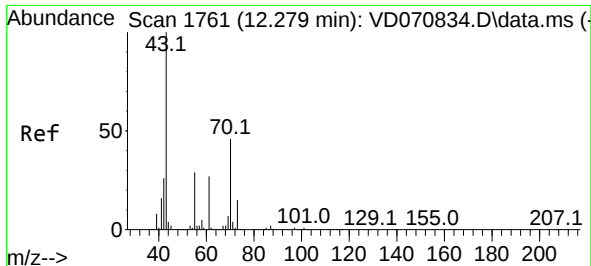
Delta R.T. 0.000 min

Lab File: VD070872.D

Acq: 27 Oct 2021 19:06

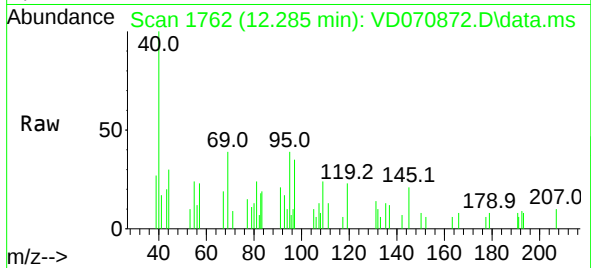
Tgt Ion:	152	Resp:	19052
Ion Ratio	Lower	Upper	
152	100		
115	65.2	29.8	89.3
150	168.1	0.0	349.2





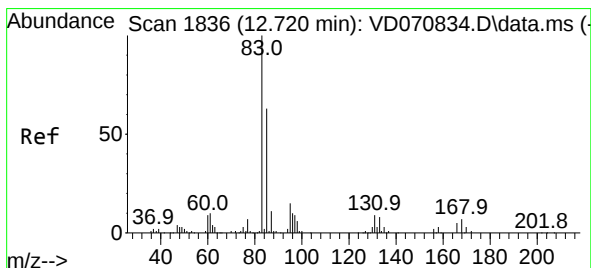
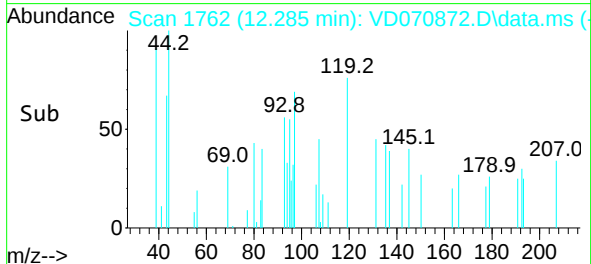
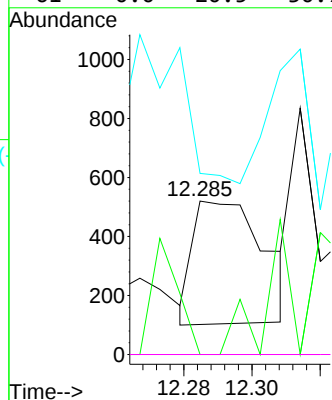
#74
N-amy1 acetate
Concen: 2.161 ug/l
RT: 12.285 min Scan# 1762
Delta R.T. 0.006 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Instrument :
MSVOA_D
ClientSampled :



Tgt Ion: 43 Resp: 604

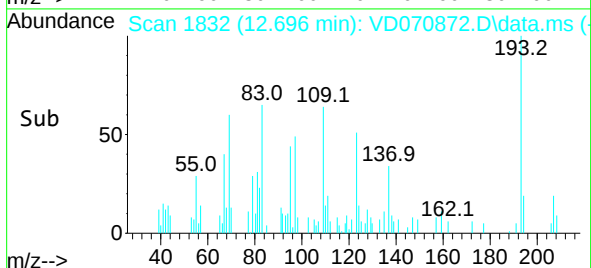
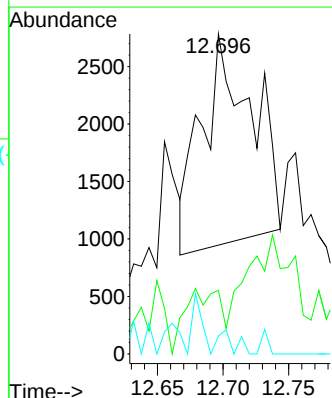
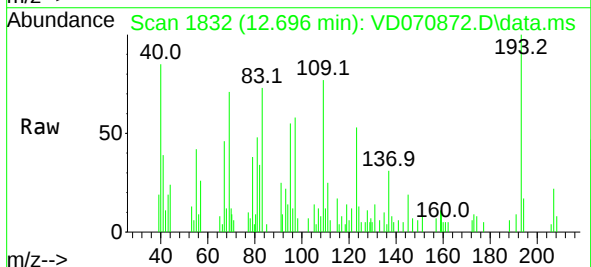
Ion	Ratio	Lower	Upper
43	100		
70	35.1	36.6	55.0#
55	79.1	22.5	33.7#
61	0.0	20.5	30.7#

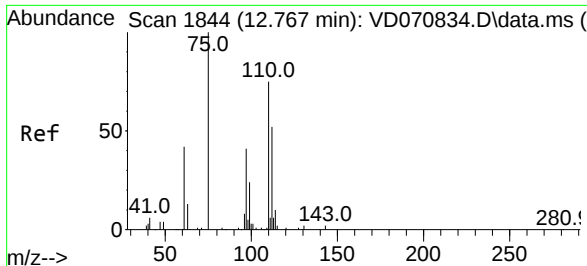


#75
1,1,2,2-Tetrachloroethane
Concen: 18.761 ug/l
RT: 12.696 min Scan# 1832
Delta R.T. -0.023 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Tgt Ion: 83 Resp: 4865

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	3.7	32.0	96.2#

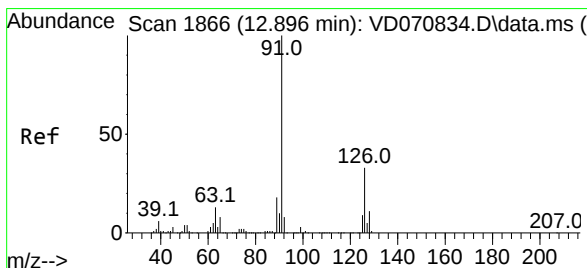
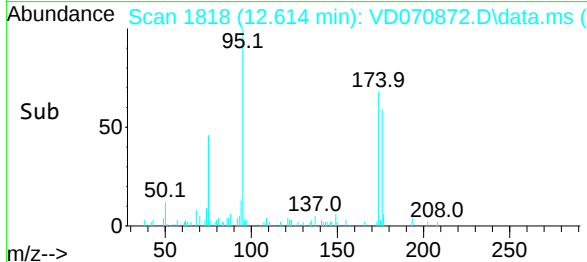
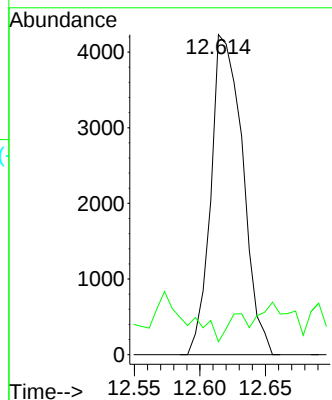
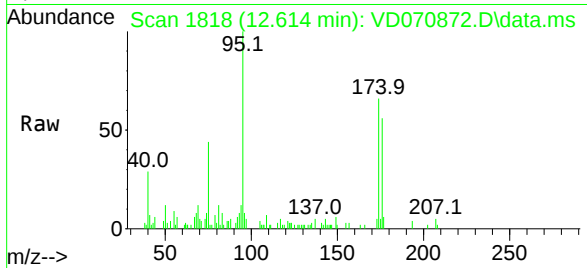




#76
1,2,3-Trichloropropane
Concen: 37.936 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.153 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

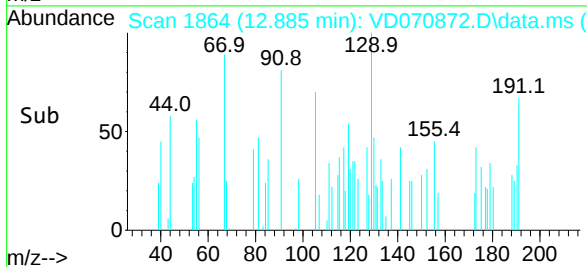
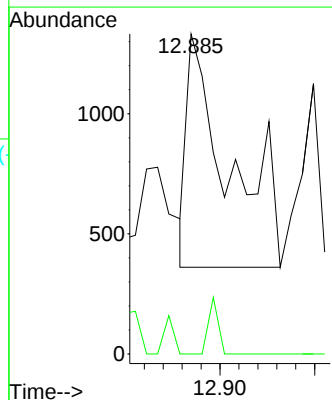
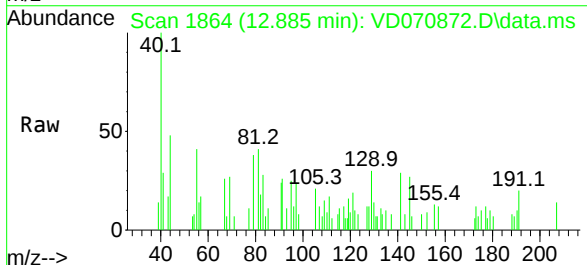
Instrument :
MSVOA_D
ClientSampleId :

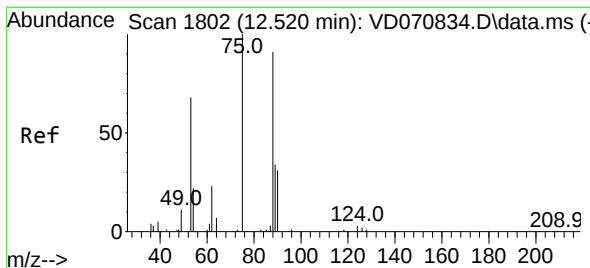
Tgt Ion: 75 Resp: 7115
Ion Ratio Lower Upper
75 100
77 5.4 158.4 475.3#



#79
2-Chlorotoluene
Concen: 1.564 ug/l
RT: 12.885 min Scan# 1864
Delta R.T. -0.012 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

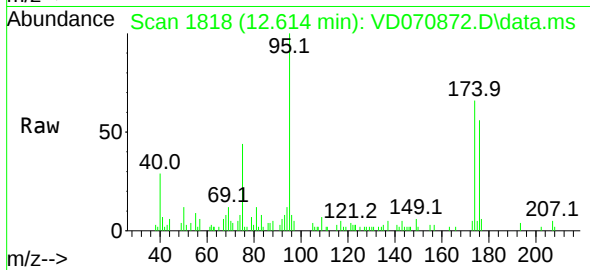
Tgt Ion: 91 Resp: 1481
Ion Ratio Lower Upper
91 100
126 5.6 16.6 49.7#



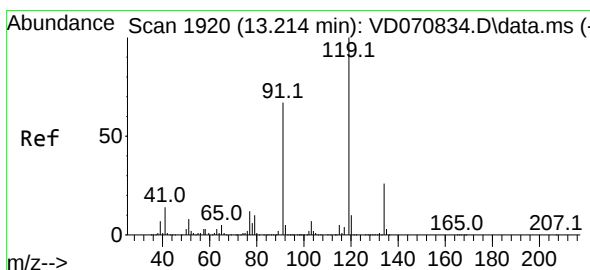
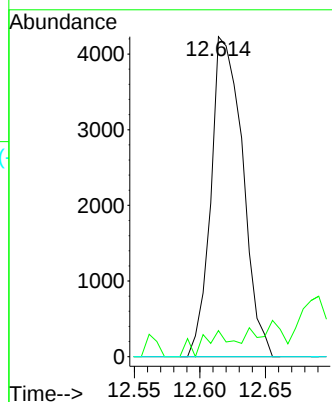
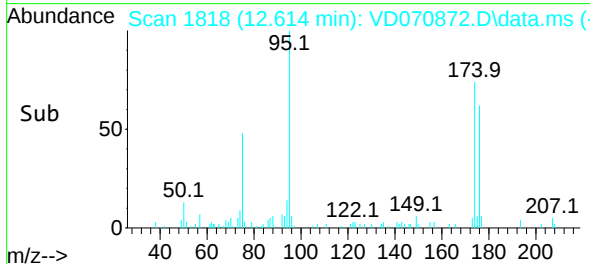


#81
 trans-1,4-Dichloro-2-butene
 Concen: 99.570 ug/l
 RT: 12.614 min Scan# 1818
 Delta R.T. 0.094 min
 Lab File: VD070872.D
 Acq: 27 Oct 2021 19:06

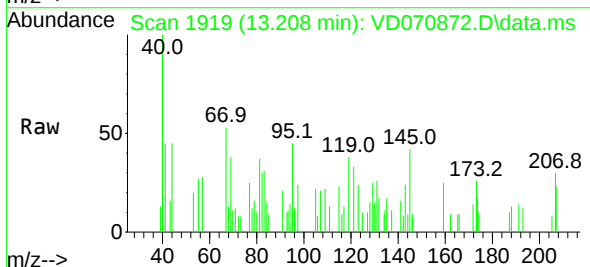
Instrument :
 MSVOA_D
 ClientSampleId :



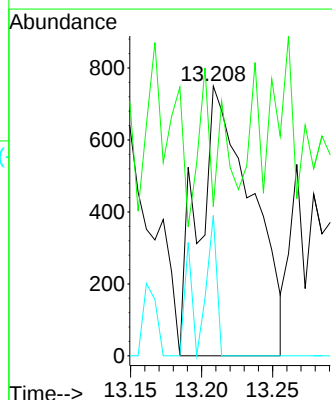
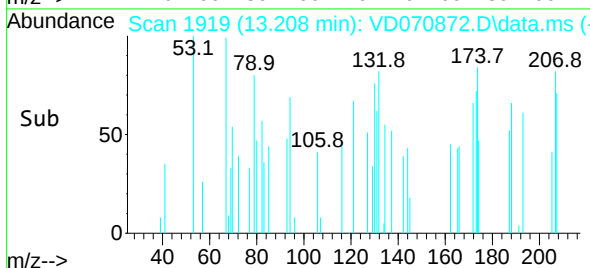
Tgt Ion: 75 Resp: 7115
 Ion Ratio Lower Upper
 75 100
 53 8.1 62.6 94.0#
 89 0.0 34.5 51.7#

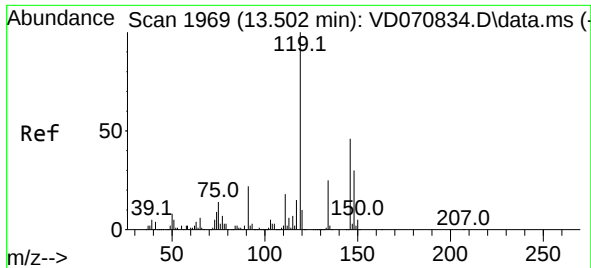


#83
 tert-Butylbenzene
 Concen: 2.152 ug/l
 RT: 13.208 min Scan# 1919
 Delta R.T. -0.006 min
 Lab File: VD070872.D
 Acq: 27 Oct 2021 19:06



Tgt Ion: 119 Resp: 1935
 Ion Ratio Lower Upper
 119 100
 91 23.5 32.5 97.5#
 134 10.0 13.2 39.6#

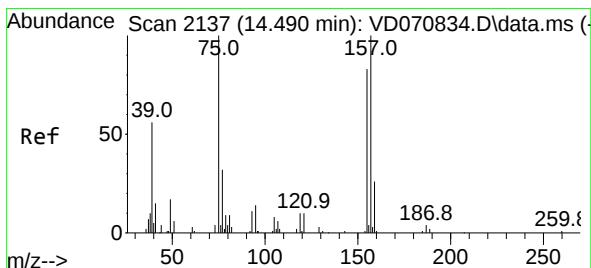
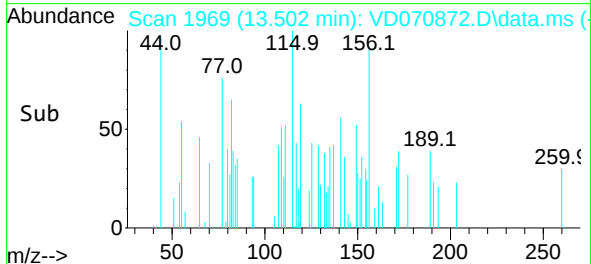
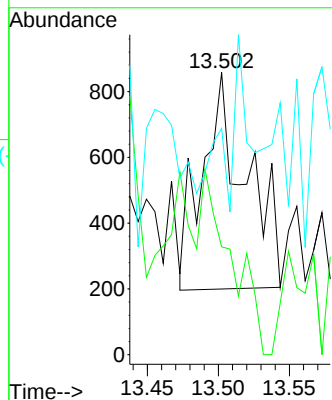
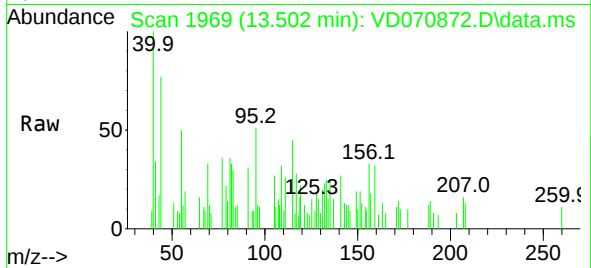




#86
 p-Isopropyltoluene
 Concen: 1.234 ug/l
 RT: 13.502 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: VD070872.D
 Acq: 27 Oct 2021 19:06

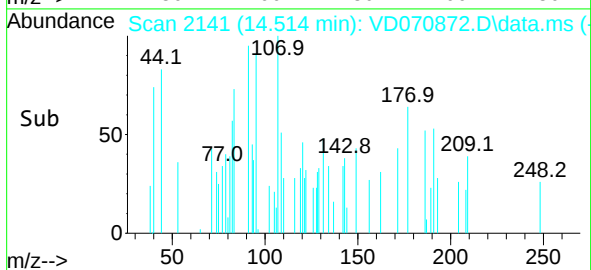
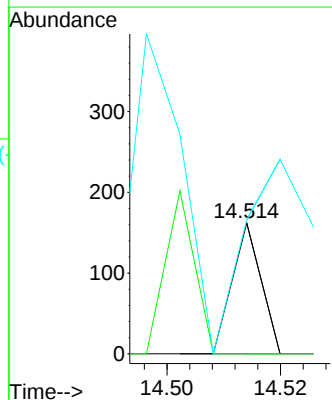
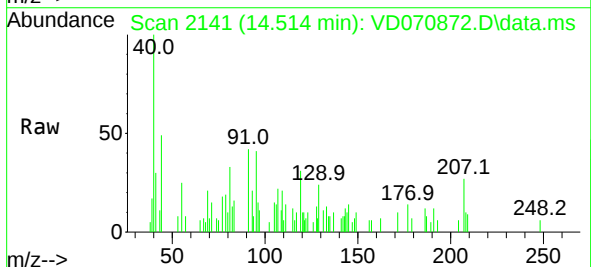
Instrument :
 MSVOA_D
 ClientSampled :

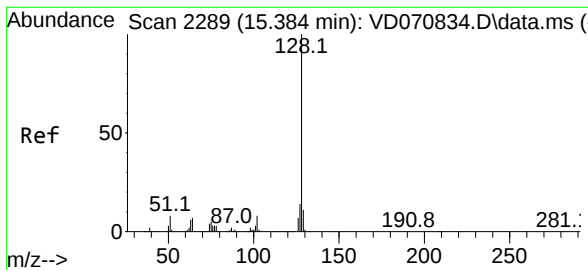
Tgt Ion:119 Resp: 1408
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.0 38.9#
 91 28.2 11.4 34.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.509 ug/l
 RT: 14.514 min Scan# 2141
 Delta R.T. 0.024 min
 Lab File: VD070872.D
 Acq: 27 Oct 2021 19:06

Tgt Ion: 75 Resp: 57
 Ion Ratio Lower Upper
 75 100
 155 124.6 40.0 120.0#
 157 414.0 49.8 149.3#





#95
Naphthalene
Concen: 9.548 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. 0.001 min
Lab File: VD070872.D
Acq: 27 Oct 2021 19:06

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 3537
Ion Ratio Lower Upper
128 100
127 21.4 10.7 16.1#
129 30.3 8.7 13.1#

