

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120921\
 Data File : VD071228.D
 Acq On : 09 Dec 2021 15:12
 Operator : VA/SY
 Sample : M4965-28
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 06:45:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

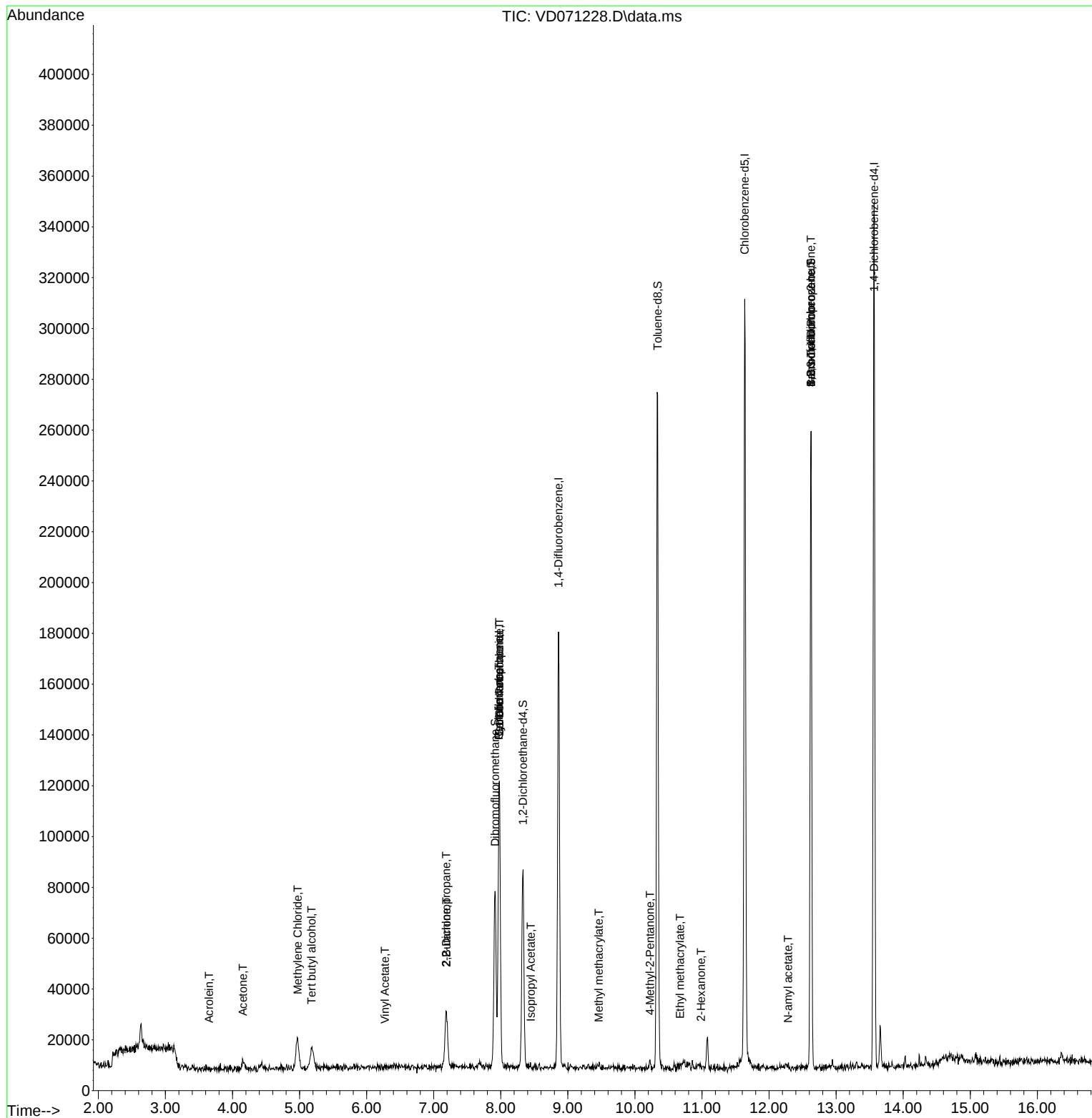
Internal Standards						
1) Pentafluorobenzene	7.973	168	78474	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	131351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	159016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	85035	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	61121	66.378	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 132.760%	
35) Dibromofluoromethane	7.914	113	48994	58.575	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 117.160%	
50) Toluene-d8	10.338	98	173302	54.445	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 108.900%	
62) 4-Bromofluorobenzene	12.626	95	80271	72.751	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 145.500%#	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.179	59	7572	72.211	ug/l #	71
13) Acrolein	3.650	56	65	1.033	ug/l #	13
16) Acetone	4.156	43	5612	50.921	ug/l	97
20) Methylene Chloride	4.973	84	8308	5.199	ug/l #	87
23) Vinyl Acetate	6.273	43	121	27.290	ug/l #	72
25) 2-Butanone	7.191	43	2390	35.862	ug/l #	45
26) 2,2-Dichloropropane	7.185	77	1720	1.186	ug/l #	52
31) Cyclohexane	7.973	56	2108	1.346	ug/l #	45
36) 1,1-Dichloropropene	7.979	75	7930	6.460	ug/l #	41
38) Carbon Tetrachloride	7.979	117	8554	7.069	ug/l #	22
41) Methacrylonitrile	7.473	41	62	Below Cal	#	12
43) Isopropyl Acetate	8.450	43	72	5.278	ug/l #	47
48) Methyl methacrylate	9.461	41	972	1.873	ug/l #	47
51) 4-Methyl-2-Pentanone	10.226	43	2068	33.686	ug/l #	87
56) Ethyl methacrylate	10.673	69	103	6.076	ug/l #	1
59) 2-Hexanone	10.985	43	501	35.532	ug/l #	22
71) Bromoform	12.626	173	990	1.774	ug/l #	1
74) N-amyl acetate	12.285	43	197	5.805	ug/l #	54
76) 1,2,3-Trichloropropane	12.626	75	44281	54.656	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	44281	118.848	ug/l #	18

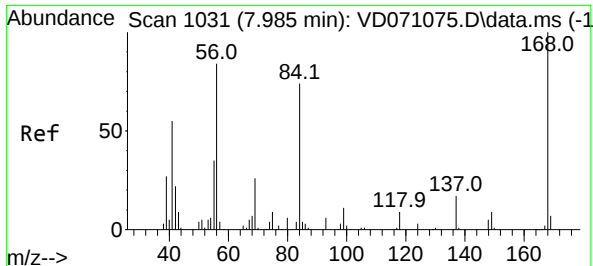
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration

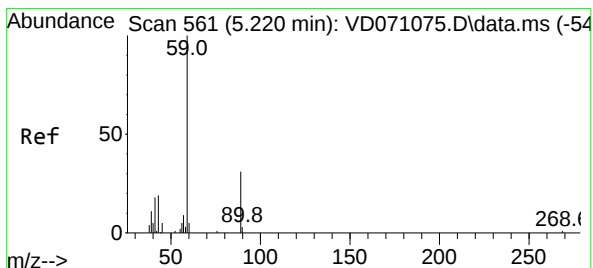
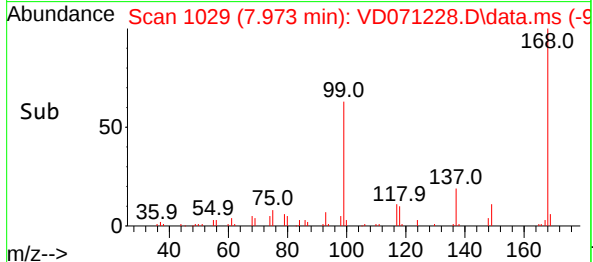
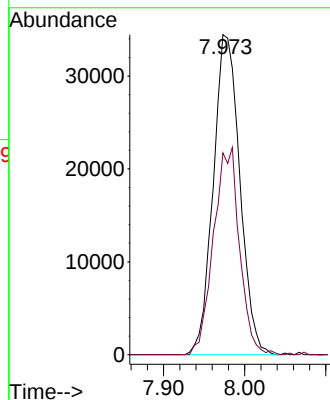
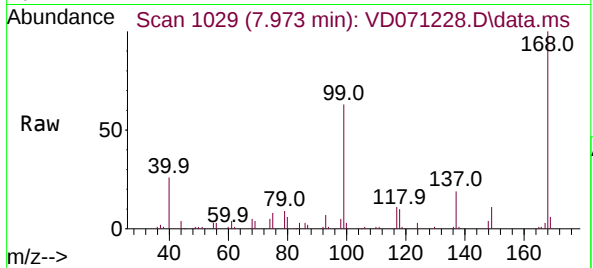




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1031
Delta R.T. -0.012 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

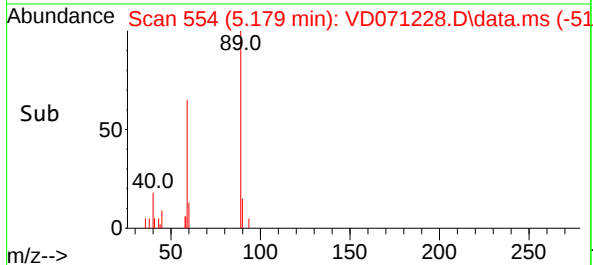
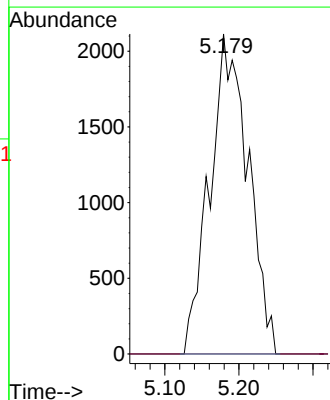
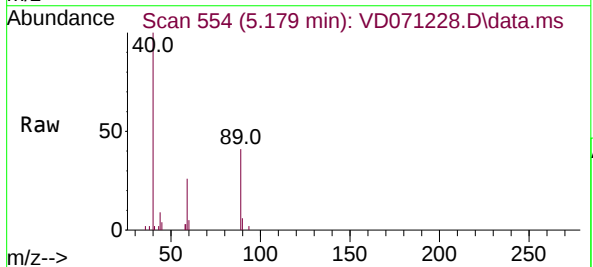
Instrument :
MSVOA_D
ClientSampleId :

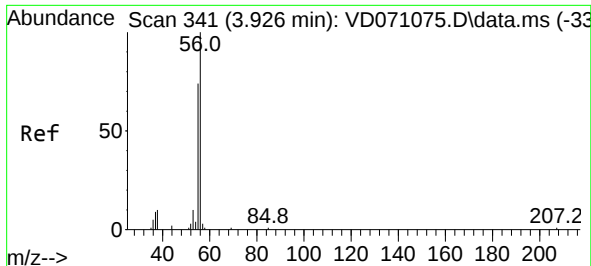
Tgt Ion:168 Resp: 78474
Ion Ratio Lower Upper
168 100
99 63.1 46.6 69.8



#11
Tert butyl alcohol
Concen: 72.211 ug/l
RT: 5.179 min Scan# 554
Delta R.T. -0.041 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

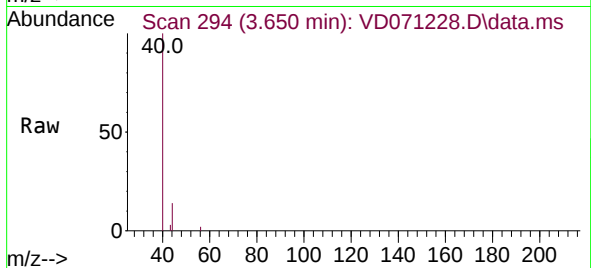
Tgt Ion: 59 Resp: 7572
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



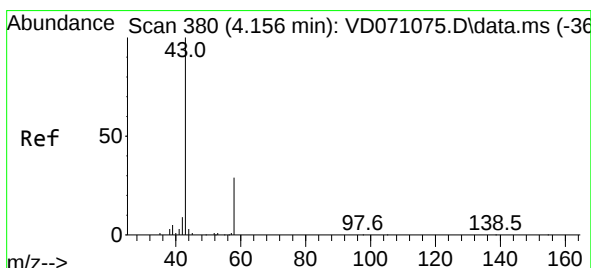
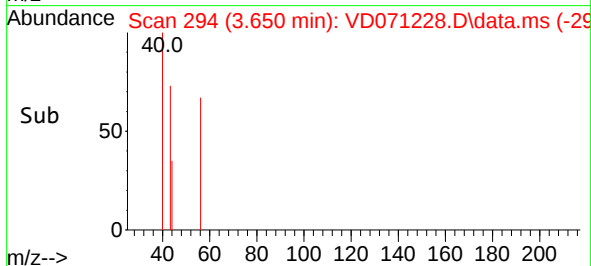
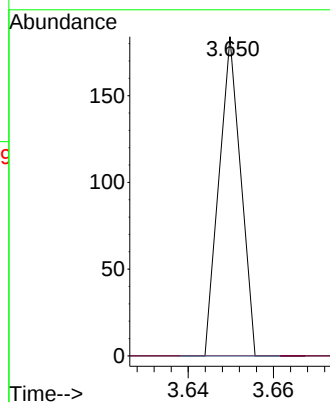


#13
Acrolein
Concen: 1.033 ug/l
RT: 3.650 min Scan# 294
Delta R.T. -0.276 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Instrument :
MSVOA_D
ClientSampleId :

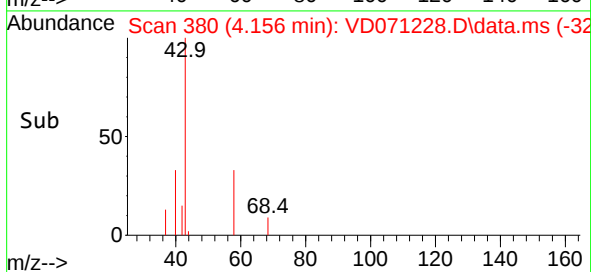
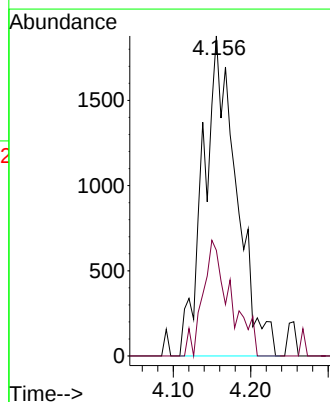
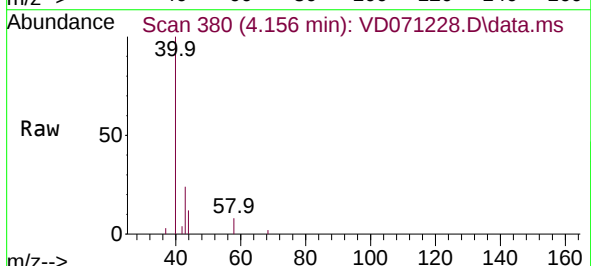


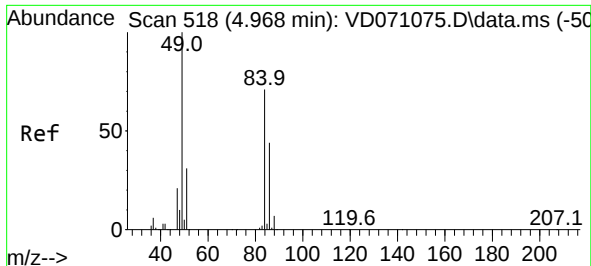
Tgt Ion: 56 Resp: 65
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#16
Acetone
Concen: 50.921 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

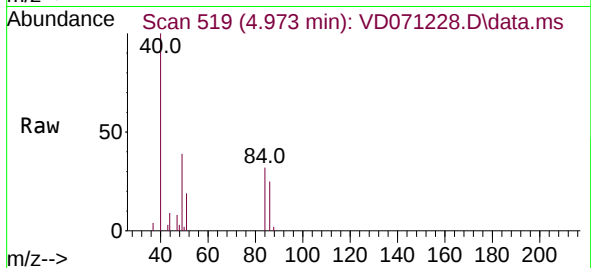
Tgt Ion: 43 Resp: 5612
Ion Ratio Lower Upper
43 100
58 33.0 27.8 41.8



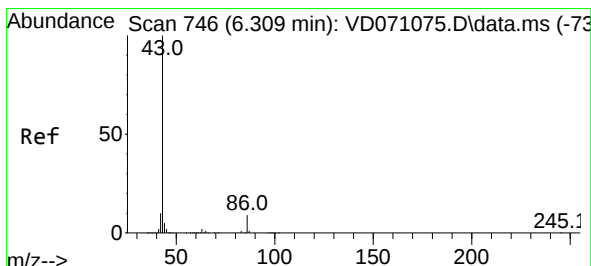
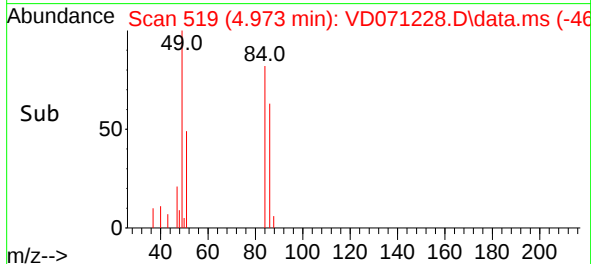
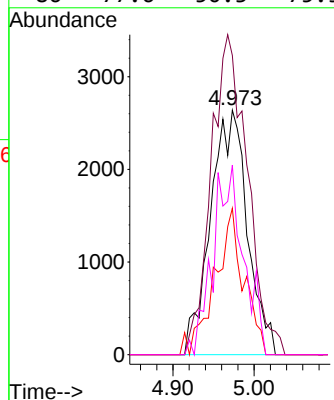


#20
Methylene Chloride
Concen: 5.199 ug/l
RT: 4.973 min Scan# 51
Delta R.T. 0.005 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Instrument :
MSVOA_D
ClientSampleId :

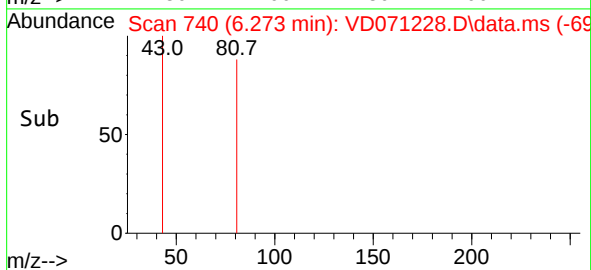
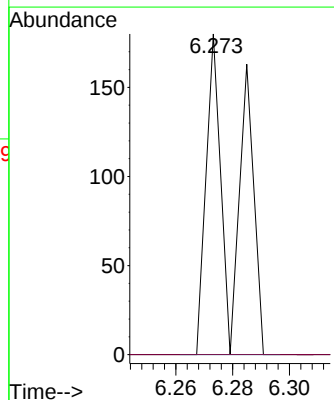
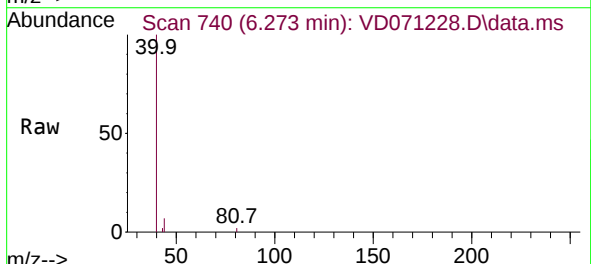


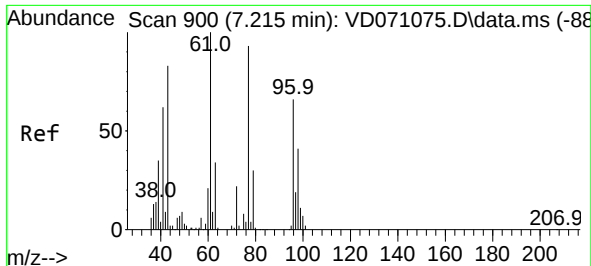
Tgt Ion: 84 Resp: 8308
Ion Ratio Lower Upper
84 100
49 122.4 95.8 143.6
51 59.9 30.9 46.3#
86 77.6 50.3 75.5#



#23
Vinyl Acetate
Concen: 27.290 ug/l
RT: 6.273 min Scan# 740
Delta R.T. -0.036 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

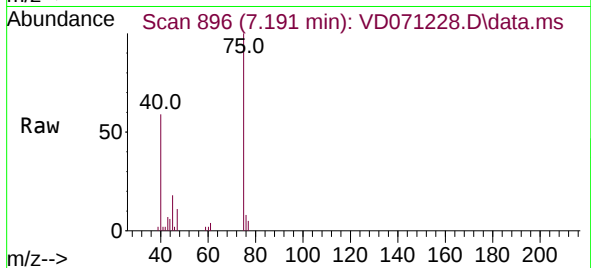
Tgt Ion: 43 Resp: 121
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



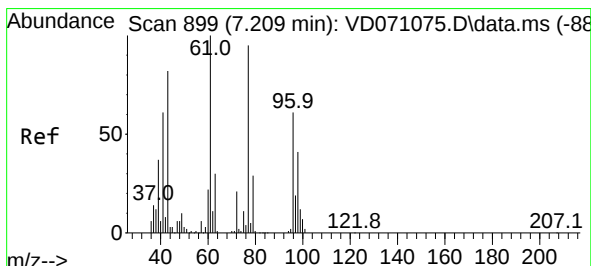
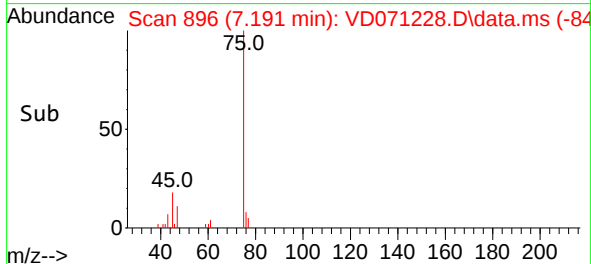
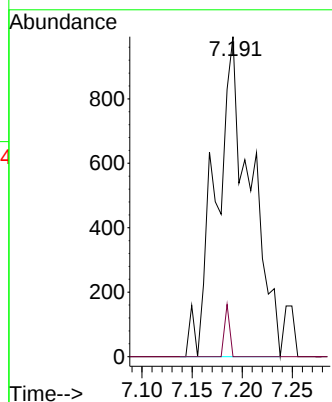


#25
2-Butanone
Concen: 35.862 ug/l
RT: 7.191 min Scan# 896
Delta R.T. -0.024 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Instrument :
MSVOA_D
ClientSampleId :

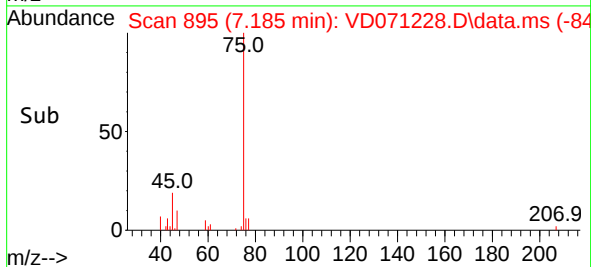
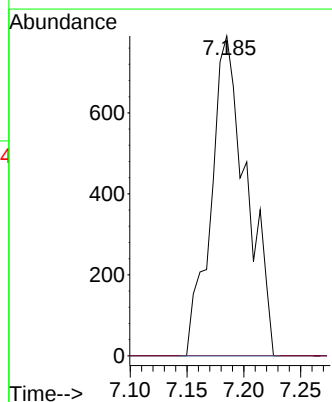
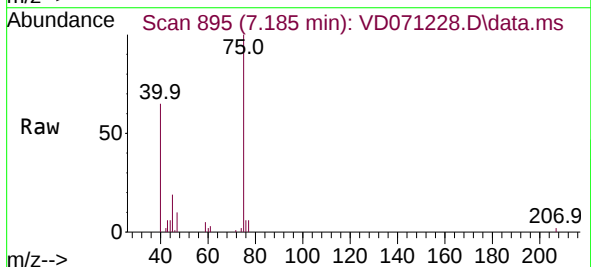


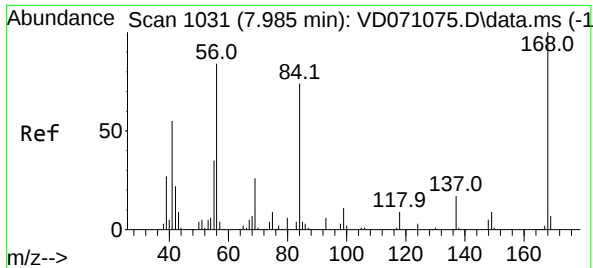
Tgt Ion: 43 Resp: 2390
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#26
2,2-Dichloropropane
Concen: 1.186 ug/l
RT: 7.185 min Scan# 895
Delta R.T. -0.024 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

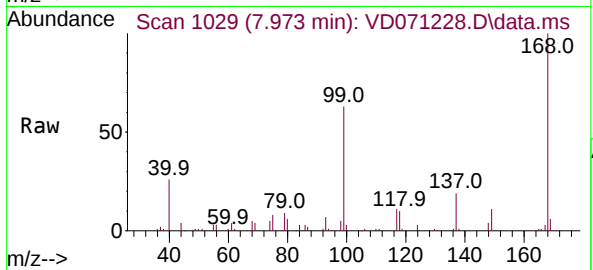
Tgt Ion: 77 Resp: 1720
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.5#



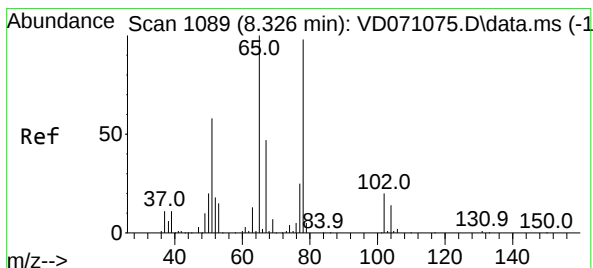
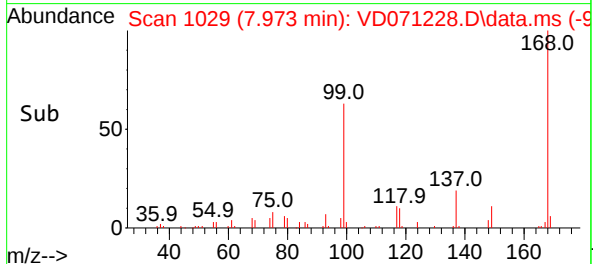
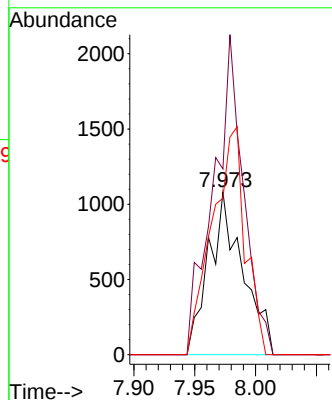


#31
Cyclohexane
Concen: 1.346 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Instrument :
MSVOA_D
ClientSampleId :

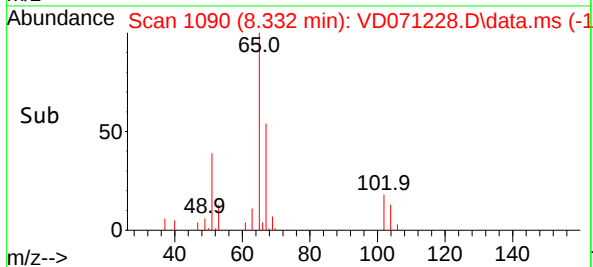
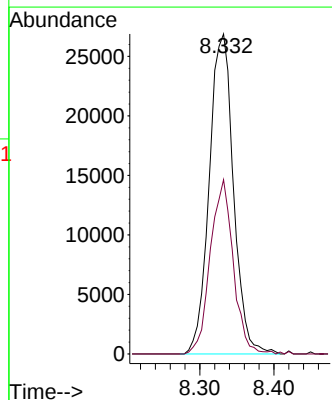
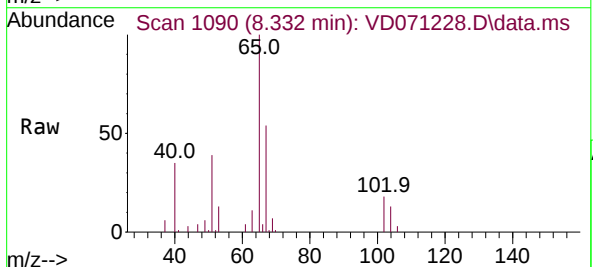


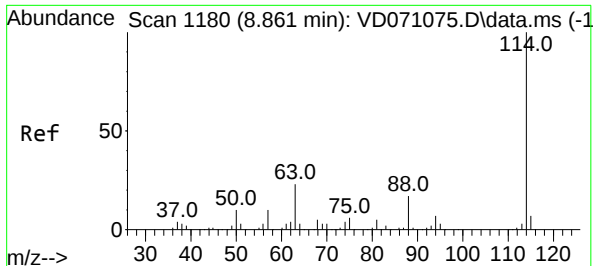
Tgt Ion: 56 Resp: 2108
Ion Ratio Lower Upper
56 100
69 114.2 25.9 38.9#
84 96.2 64.3 96.5



#33
1,2-Dichloroethane-d4
Concen: 66.378 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Tgt Ion: 65 Resp: 61121
Ion Ratio Lower Upper
65 100
67 51.5 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071228.D

Acq: 09 Dec 2021 15:12

Instrument :

MSVOA_D

ClientSampleId :

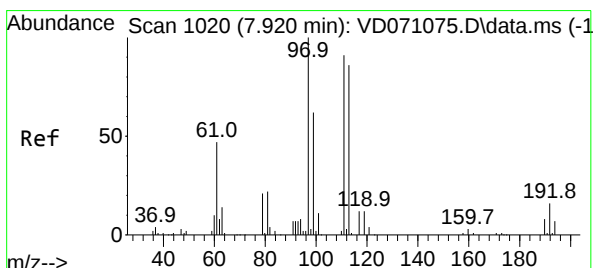
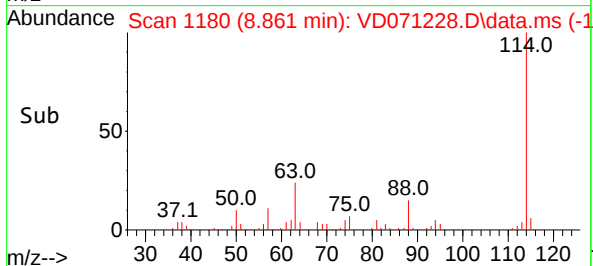
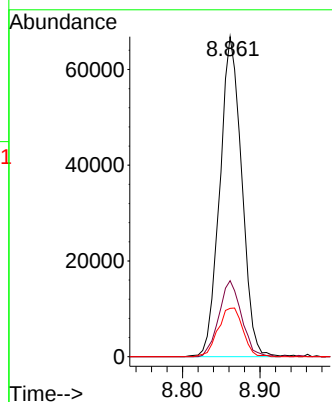
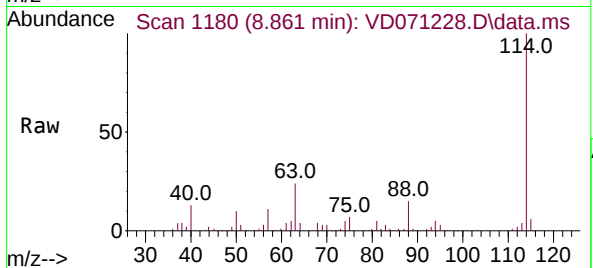
Tgt Ion:114 Resp: 131351

Ion Ratio Lower Upper

114 100

63 23.7 0.0 41.8

88 15.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 58.575 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071228.D

Acq: 09 Dec 2021 15:12

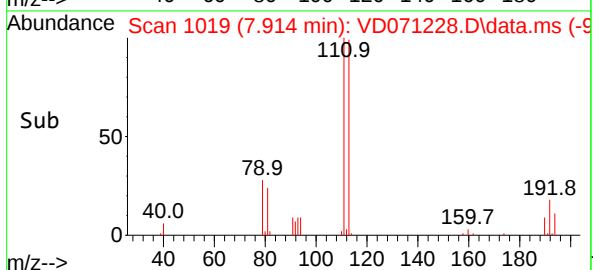
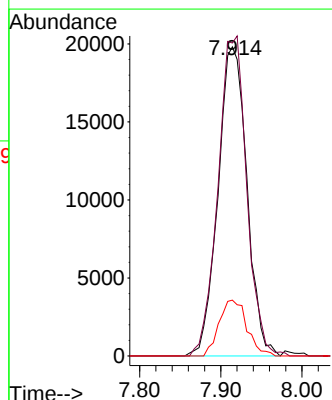
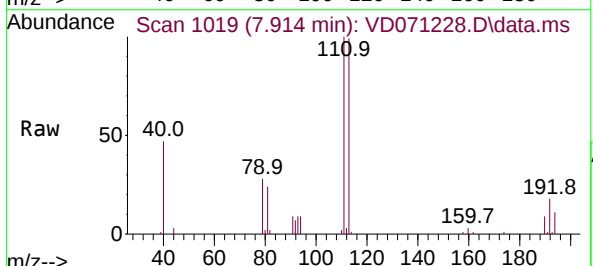
Tgt Ion:113 Resp: 48994

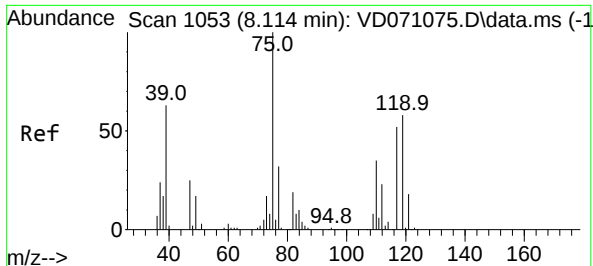
Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

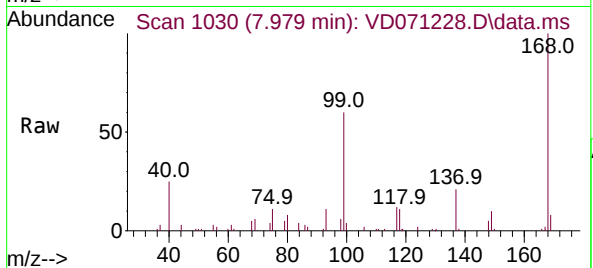
192 17.4 15.2 22.8



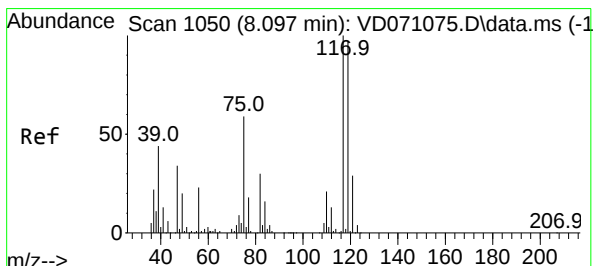
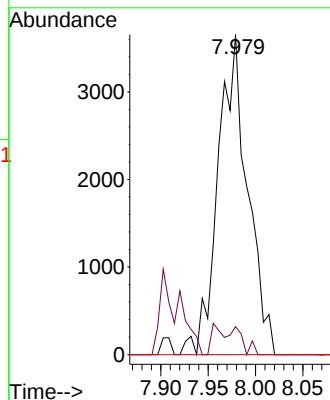
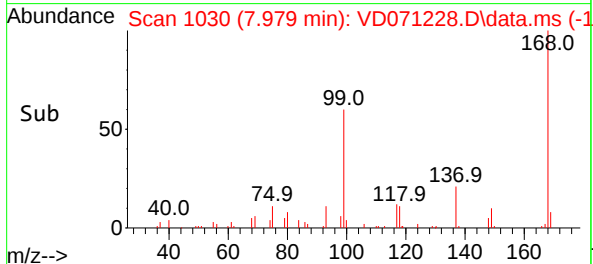


#36
1,1-Dichloropropene
Concen: 6.460 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.135 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

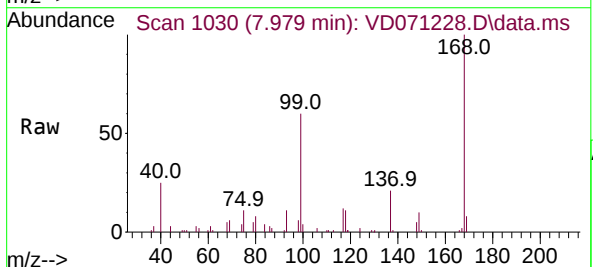
Instrument :
MSVOA_D
ClientSampleId :



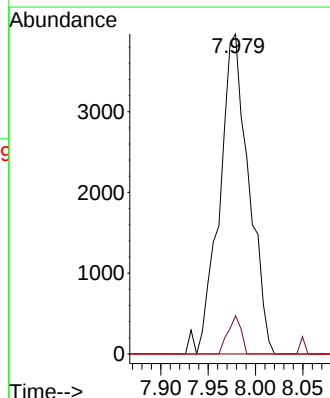
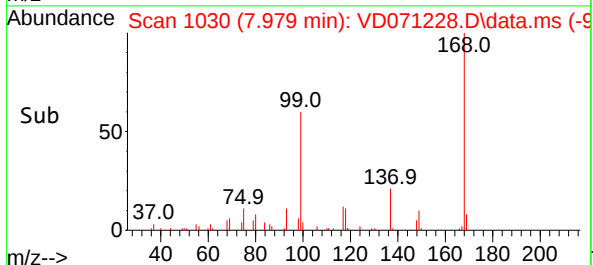
Tgt Ion: 75 Resp: 7930
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#

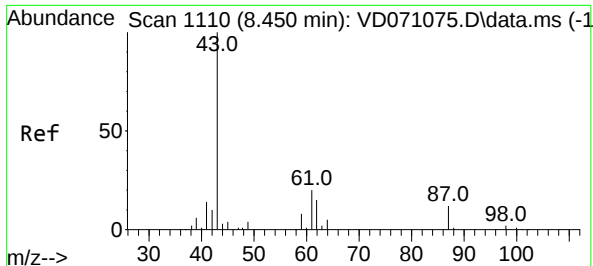


#38
Carbon Tetrachloride
Concen: 7.069 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12



Tgt Ion: 117 Resp: 8554
Ion Ratio Lower Upper
117 100
119 11.9 75.8 113.6#
121 0.0 23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.278 ug/l

RT: 8.450 min Scan# 1110

Delta R.T. -0.000 min

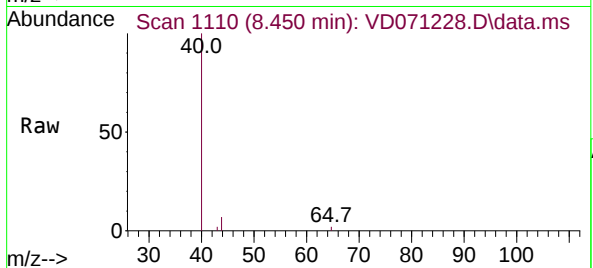
Lab File: VD071228.D

Acq: 09 Dec 2021 15:12

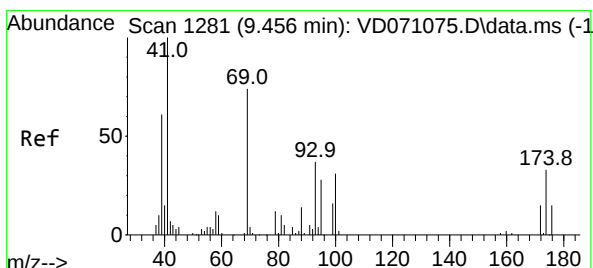
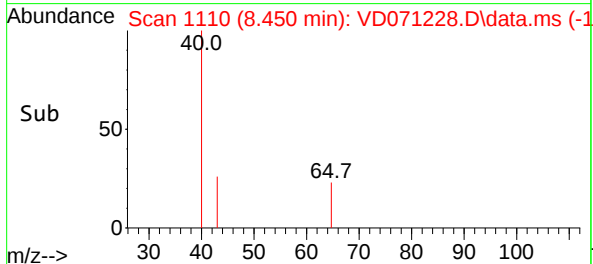
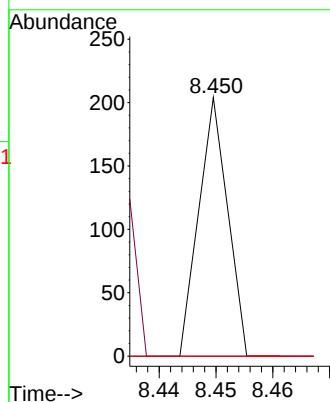
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp: 72
Ion Ratio	Lower Upper
43 100	
61 0.0	28.2 42.4#
87 0.0	10.7 16.1#



#48

Methyl methacrylate

Concen: 1.873 ug/l

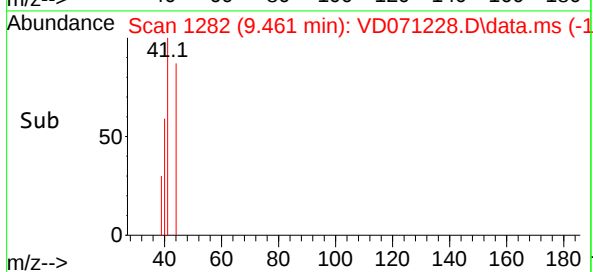
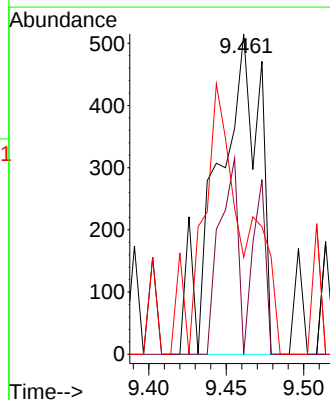
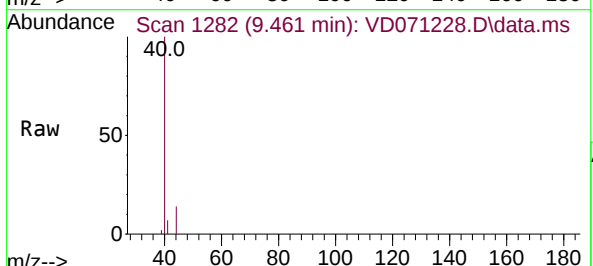
RT: 9.461 min Scan# 1282

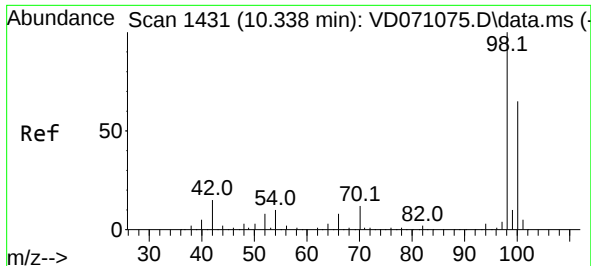
Delta R.T. 0.005 min

Lab File: VD071228.D

Acq: 09 Dec 2021 15:12

Tgt Ion: 41	Resp: 972
Ion Ratio	Lower Upper
41 100	
69 27.2	69.8 104.6#
39 64.3	35.6 53.4#

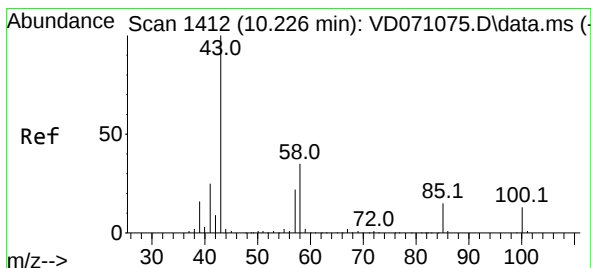
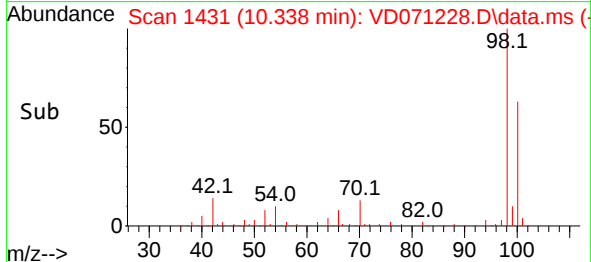
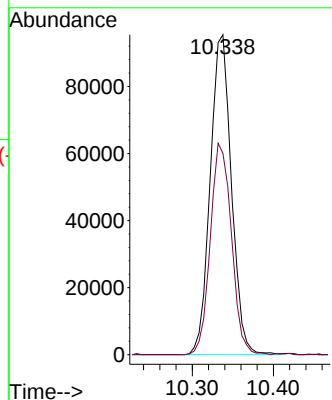
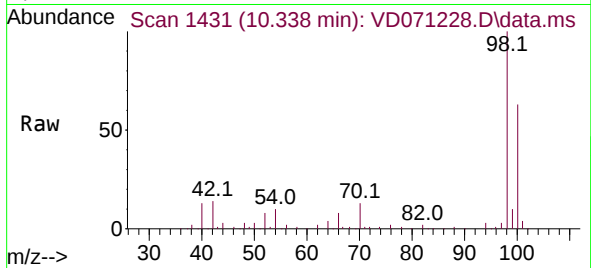




#50
Toluene-d8
Concen: 54.445 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

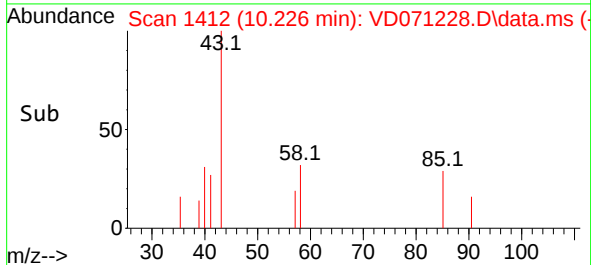
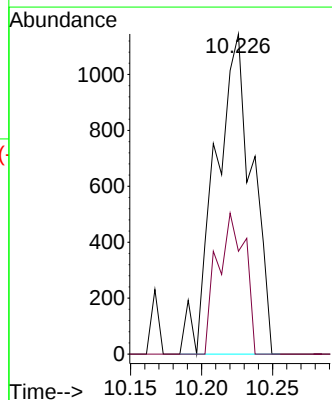
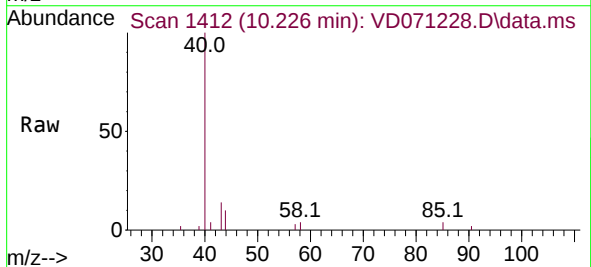
Instrument :
MSVOA_D
ClientSampleId :

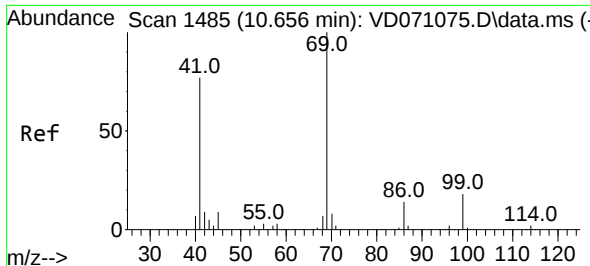
Tgt Ion: 98 Resp: 173302
Ion Ratio Lower Upper
98 100
100 65.8 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 33.686 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. -0.000 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Tgt Ion: 43 Resp: 2068
Ion Ratio Lower Upper
43 100
58 33.1 33.1 49.7#

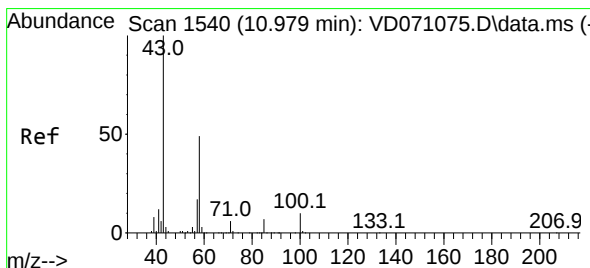
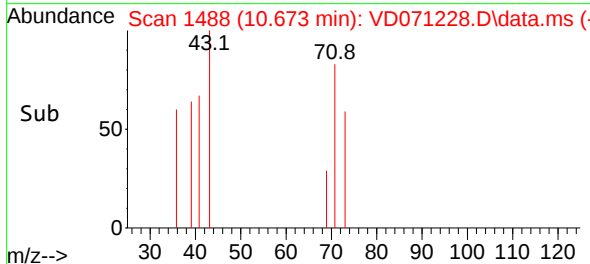
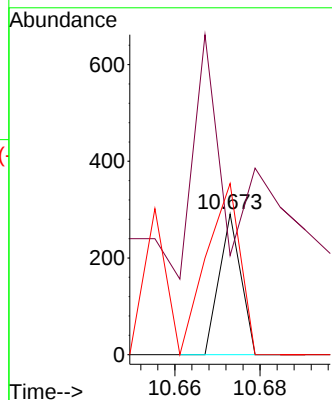
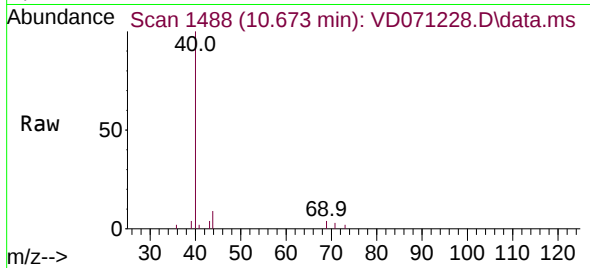




#56
Ethyl methacrylate
Concen: 6.076 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.017 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

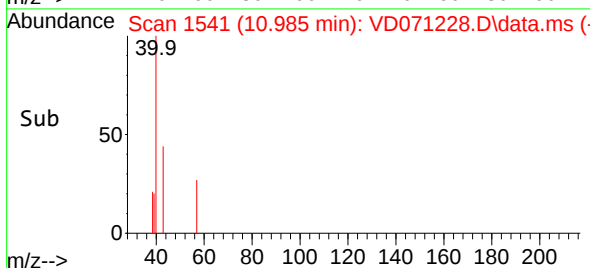
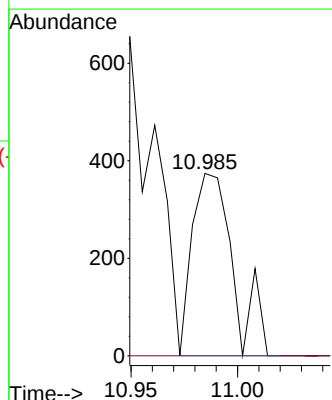
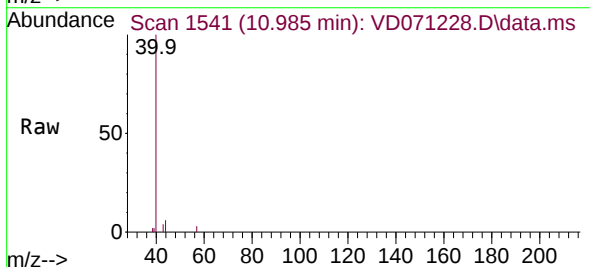
Instrument :
MSVOA_D
ClientSampleId :

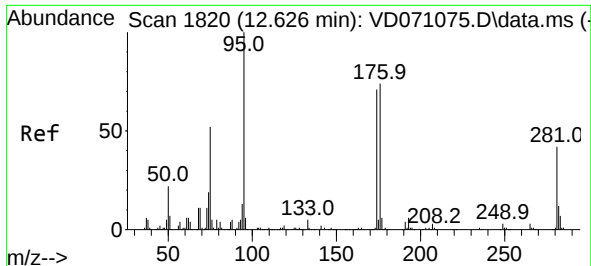
Tgt Ion: 69 Resp: 103
Ion Ratio Lower Upper
69 100
41 400.0 50.2 75.2#
39 190.3 19.8 29.8#



#59
2-Hexanone
Concen: 35.532 ug/l
RT: 10.985 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Tgt Ion: 43 Resp: 501
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

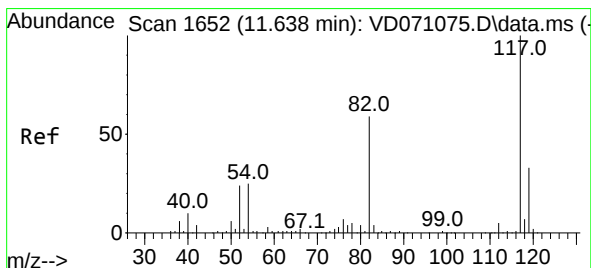
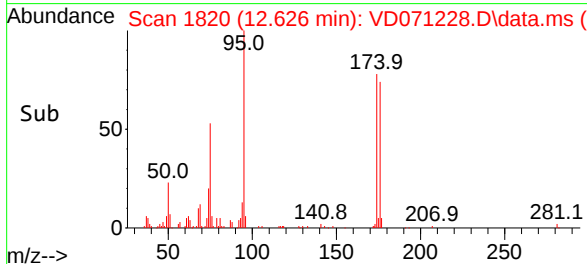
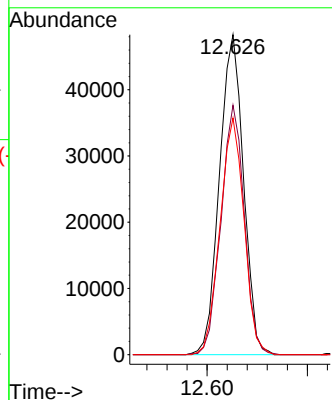
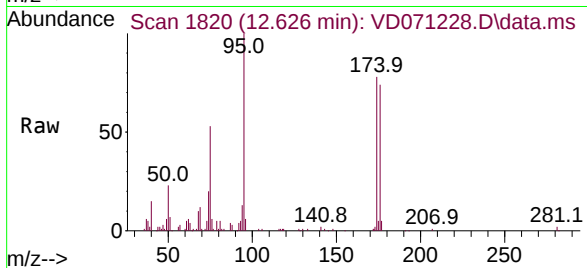




#62
4-Bromofluorobenzene
Concen: 72.751 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

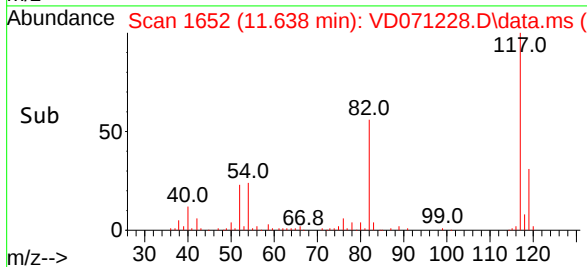
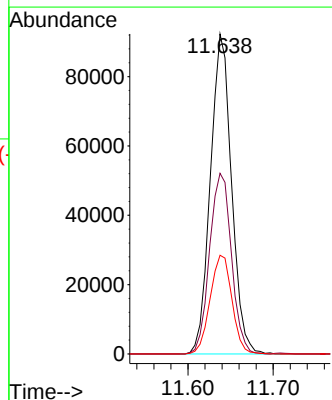
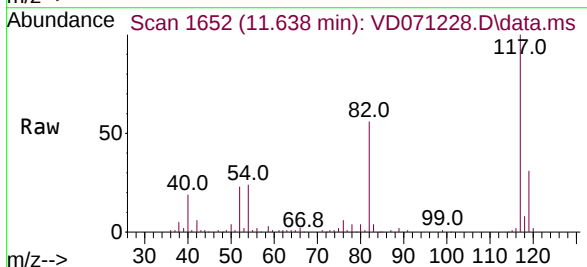
Instrument :
MSVOA_D
ClientSampleId :

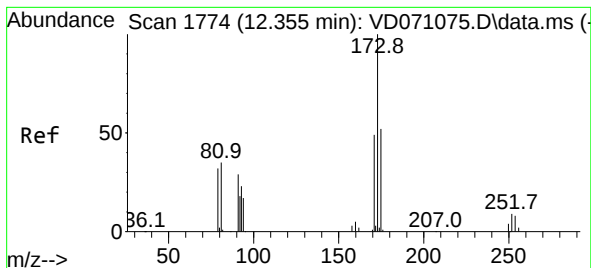
Tgt Ion: 95 Resp: 80271
Ion Ratio Lower Upper
95 100
174 75.6 0.0 159.4
176 73.7 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Tgt Ion: 117 Resp: 159016
Ion Ratio Lower Upper
117 100
82 56.4 44.7 67.1
119 30.9 26.2 39.4





#71

Bromoform

Concen: 1.774 ug/l

RT: 12.626 min Scan# 1820

Delta R.T. 0.271 min

Lab File: VD071228.D

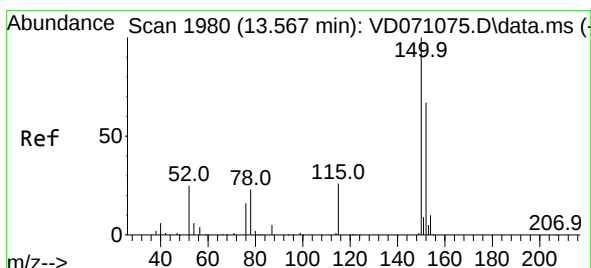
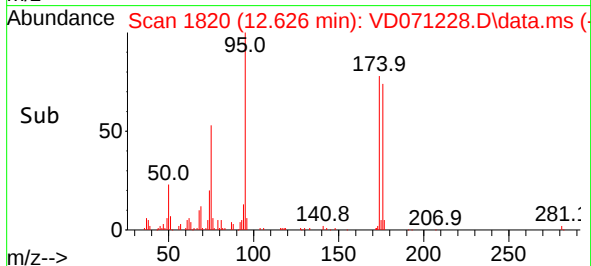
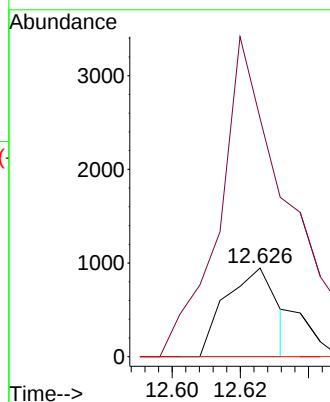
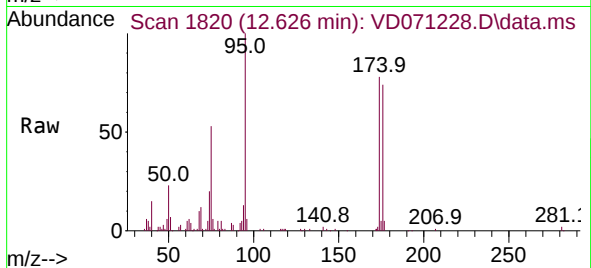
Acq: 09 Dec 2021 15:12

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	173	Resp:	990
Ion Ratio	Lower	Upper	
173	100		
175	364.1	24.1	72.2#
254	0.0	0.1	0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

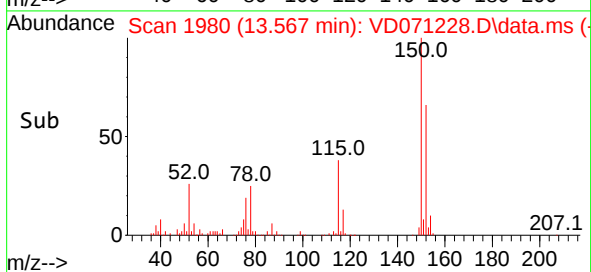
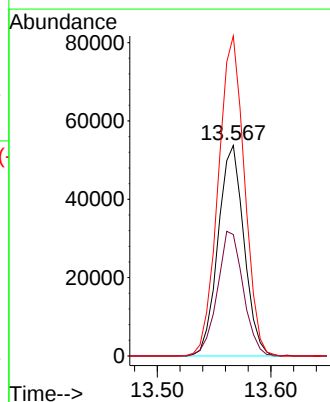
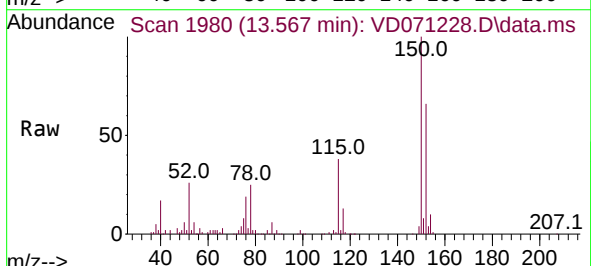
RT: 13.567 min Scan# 1980

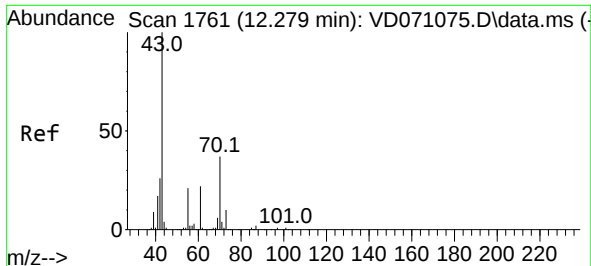
Delta R.T. -0.000 min

Lab File: VD071228.D

Acq: 09 Dec 2021 15:12

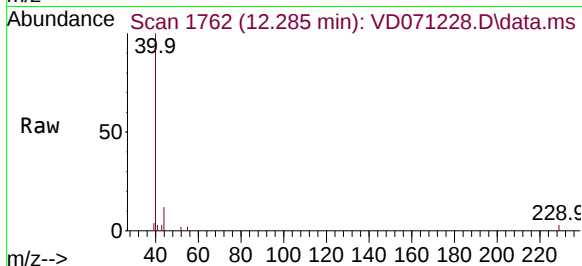
Tgt Ion:	152	Resp:	85035
Ion Ratio	Lower	Upper	
152	100		
115	59.3	29.8	89.3
150	154.1	0.0	349.2



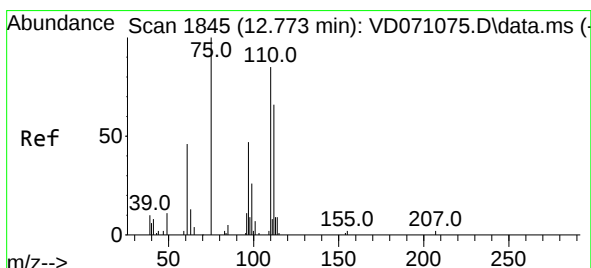
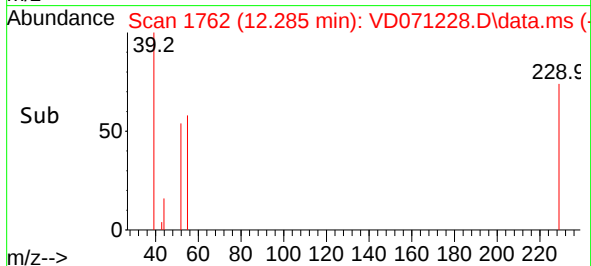
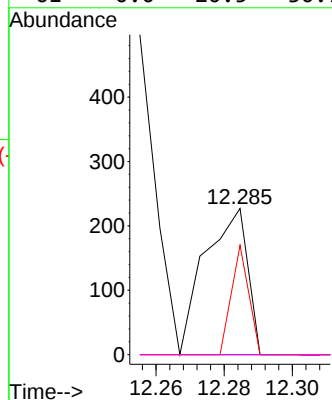


#74
N-amy1 acetate
Concen: 5.805 ug/l
RT: 12.285 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

Instrument :
MSVOA_D
ClientSampleId :

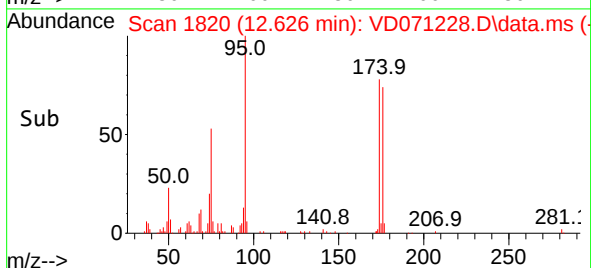
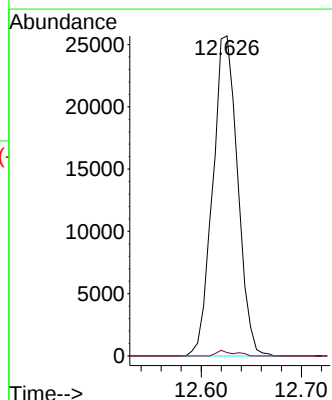
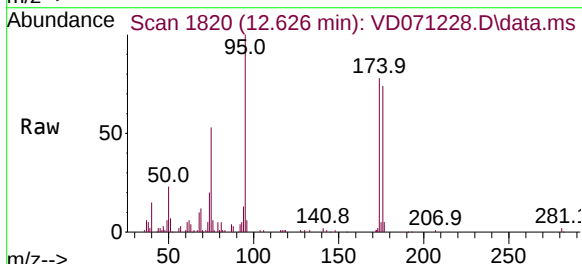


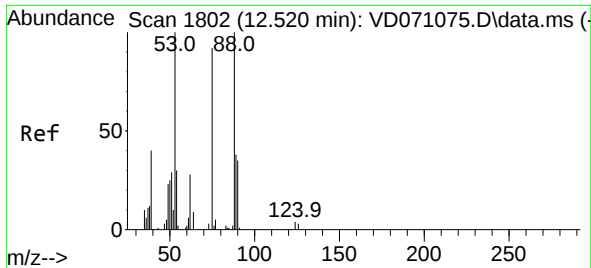
Tgt Ion: 43 Resp: 197
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 30.5 22.5 33.7
61 0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 54.656 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071228.D
Acq: 09 Dec 2021 15:12

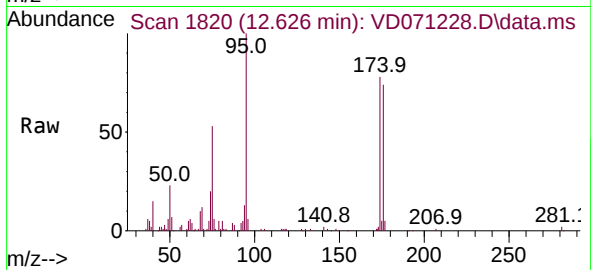
Tgt Ion: 75 Resp: 44281
Ion Ratio Lower Upper
75 100
77 1.2 158.4 475.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 118.848 ug/l
 RT: 12.626 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VD071228.D
 Acq: 09 Dec 2021 15:12

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	62.6	94.0#
89	0.0	34.5	51.7#

