

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121521\
 Data File : VD071337.D
 Acq On : 15 Dec 2021 12:40
 Operator : VA/SY
 Sample : M5073-01RE
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 04:26:17 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)

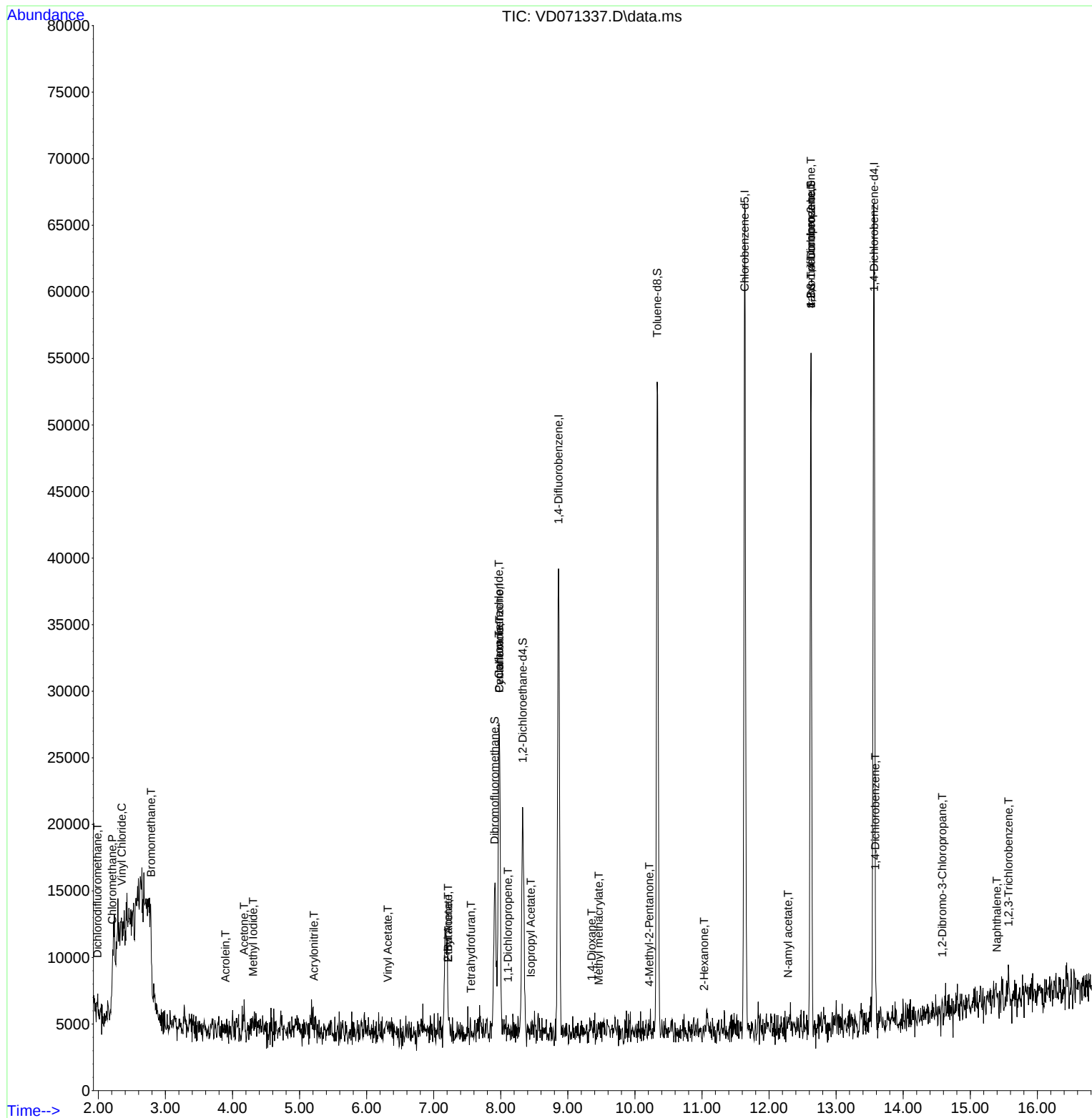
Internal Standards						
1) Pentafluorobenzene	7.979	168	15456	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	26440	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	28449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	15484	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	12186	67.193	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 134.380%			
35) Dibromofluoromethane	7.908	113	8076	47.967	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.940%			
50) Toluene-d8	10.332	98	32503	50.729	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 101.460%			
62) 4-Bromofluorobenzene	12.626	95	13621	61.329	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 122.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.985	85	245	1.859	ug/l #	44
3) Chloromethane	2.209	50	919	5.270	ug/l	90
4) Vinyl Chloride	2.350	62	280	1.439	ug/l #	42
5) Bromomethane	2.785	94	1684	12.008	ug/l	91
10) Methyl Iodide	4.309	142	739	8.276	ug/l #	56
11) Tert butyl alcohol	5.220	59	120	Below Cal	#	71
13) Acrolein	3.897	56	69	5.567	ug/l #	13
15) Acrylonitrile	5.214	53	56	1.612	ug/l #	19
16) Acetone	4.173	43	1545	58.926	ug/l #	40
20) Methylene Chloride	4.985	84	687	Below Cal	#	62
23) Vinyl Acetate	6.314	43	64	27.411	ug/l #	72
25) 2-Butanone	7.214	43	287	32.934	ug/l #	45
29) Tetrahydrofuran	7.555	42	133	4.618	ug/l #	67
31) Cyclohexane	7.979	56	582	1.887	ug/l #	54
36) 1,1-Dichloropropene	8.108	75	263	1.064	ug/l #	41
37) Ethyl Acetate	7.214	43	287	2.689	ug/l #	66
38) Carbon Tetrachloride	7.973	117	1814	7.447	ug/l #	12
41) Methacrylonitrile	7.479	41	70	Below Cal	#	43
43) Isopropyl Acetate	8.450	43	61	5.456	ug/l #	47
48) Methyl methacrylate	9.461	41	148	1.416	ug/l #	33
49) 1,4-Dioxane	9.355	88	61	69.000	ug/l #	12
51) 4-Methyl-2-Pentanone	10.214	43	206	32.153	ug/l #	18
59) 2-Hexanone	11.032	43	111	35.629	ug/l	91
74) N-amyl acetate	12.285	43	307	6.587	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	8069	54.696	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	8069	118.931	ug/l #	18
88) 1,4-Dichlorobenzene	13.585	146	598	1.249	ug/l #	60
92) 1,2-Dibromo-3-Chloropr...	14.585	75	73	2.428	ug/l #	4
95) Naphthalene	15.396	128	1051	2.325	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.573	180	399	1.832	ug/l #	78

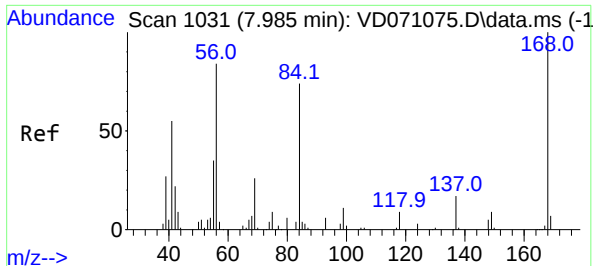
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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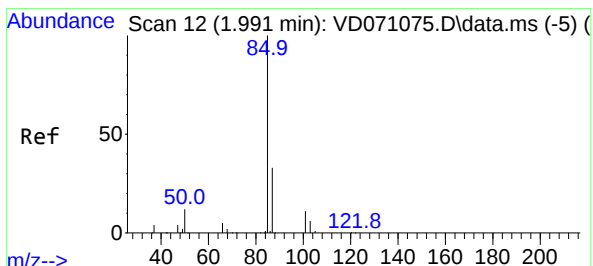
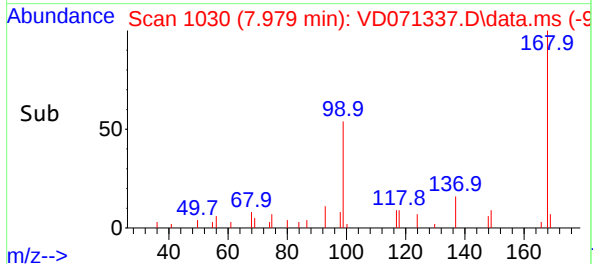
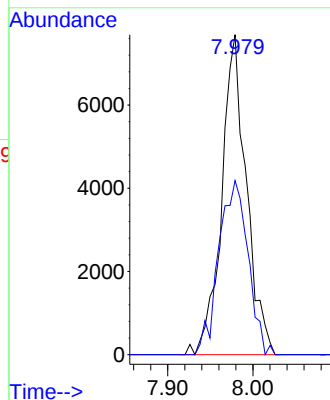
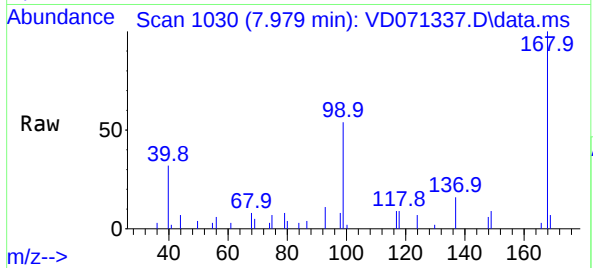




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

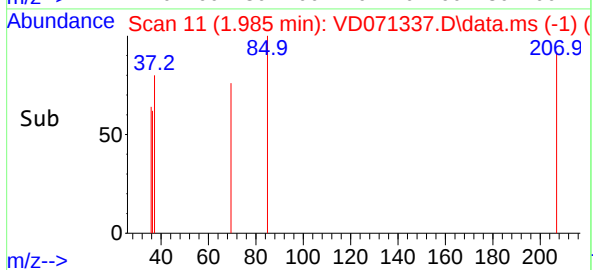
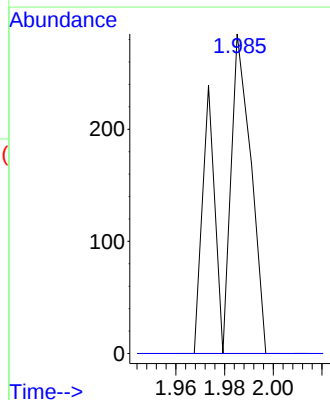
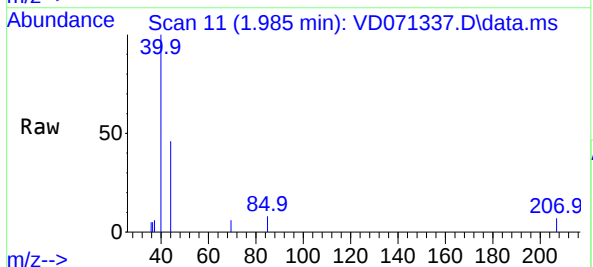
Instrument :
MSVOA_D
ClientSampleId :

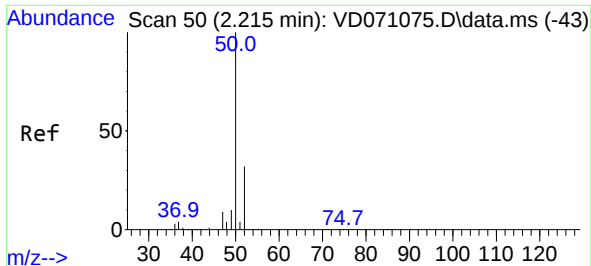
Tgt Ion:168 Resp: 15456
Ion Ratio Lower Upper
168 100
99 54.4 46.6 69.8



#2
Dichlorodifluoromethane
Concen: 1.859 ug/l
RT: 1.985 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 85 Resp: 245
Ion Ratio Lower Upper
85 100
87 0.0 15.2 45.6#

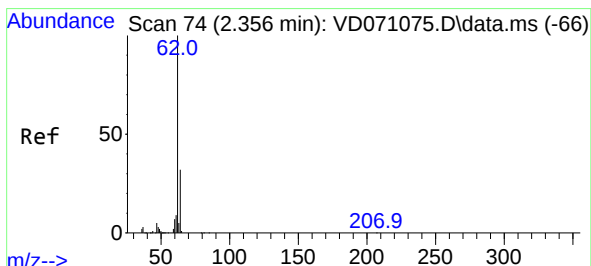
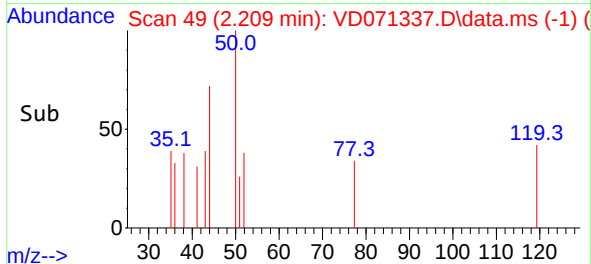
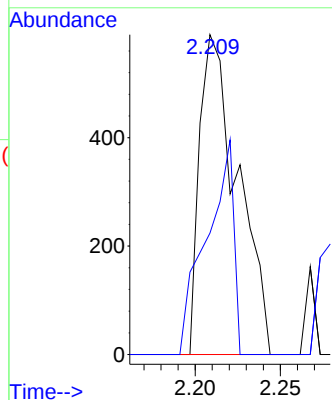
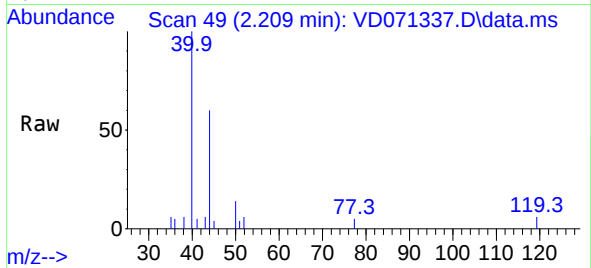




#3
Chloromethane
Concen: 5.270 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

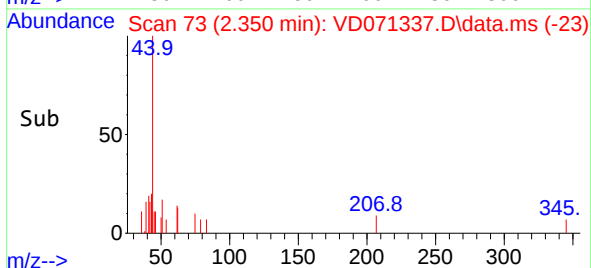
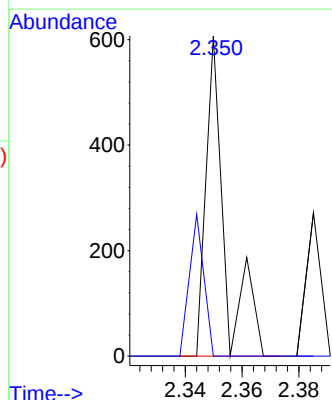
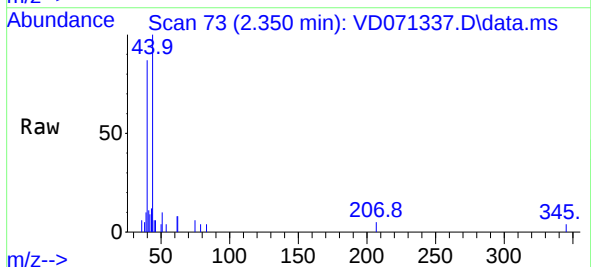
Instrument :
MSVOA_D
ClientSampleId :

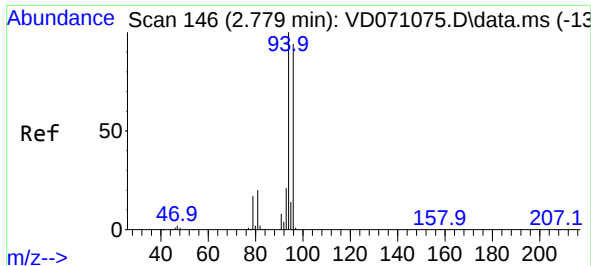
Tgt Ion: 50 Resp: 919
Ion Ratio Lower Upper
50 100
52 38.0 25.8 38.8



#4
Vinyl Chloride
Concen: 1.439 ug/l
RT: 2.350 min Scan# 73
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

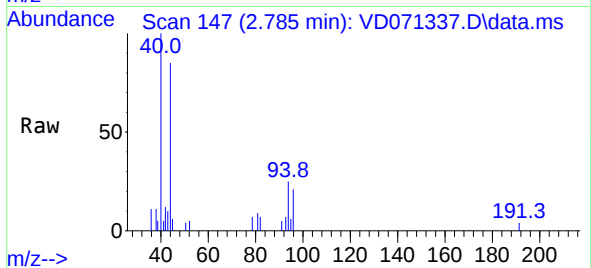
Tgt Ion: 62 Resp: 280
Ion Ratio Lower Upper
62 100
64 0.0 26.0 39.0#



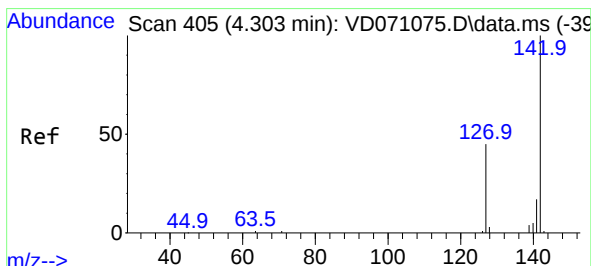
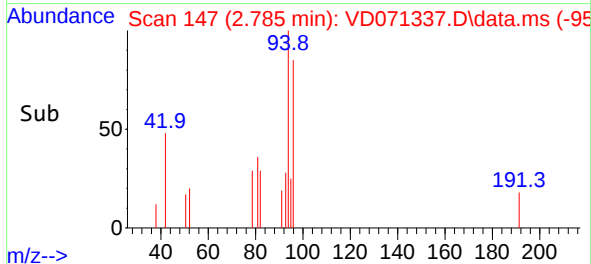
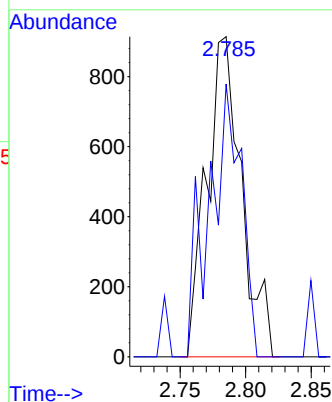


#5
Bromomethane
Concen: 12.008 ug/l
RT: 2.785 min Scan# 146
Delta R.T. 0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Instrument :
MSVOA_D
ClientSampleId :

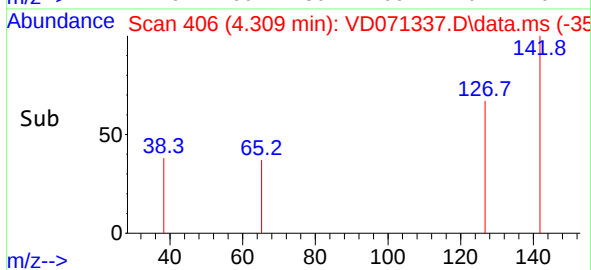
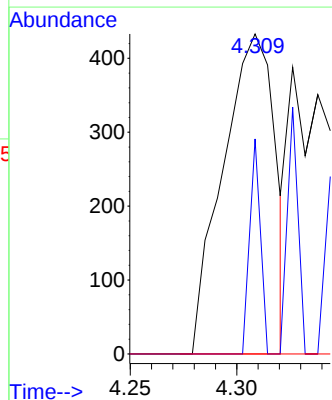
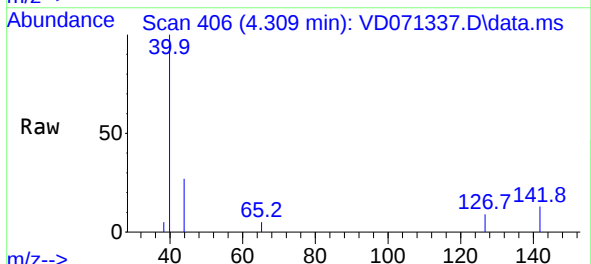


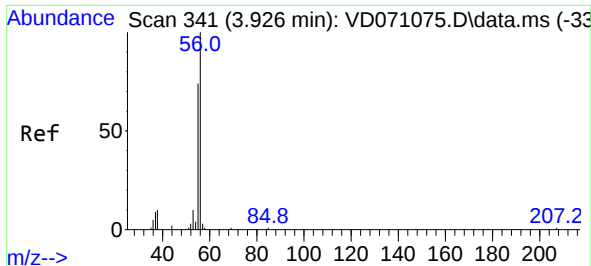
Tgt Ion: 94 Resp: 1684
Ion Ratio Lower Upper
94 100
96 85.2 74.8 112.2



#10
Methyl Iodide
Concen: 8.276 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 142 Resp: 739
Ion Ratio Lower Upper
142 100
127 13.9 35.0 52.4#
141 0.0 12.0 18.0#

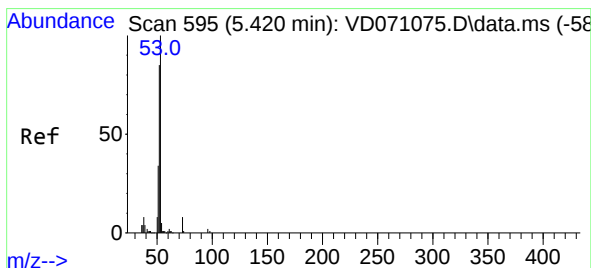
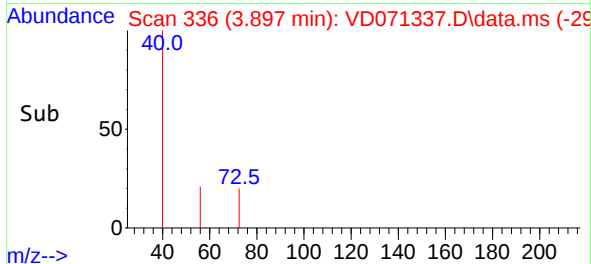
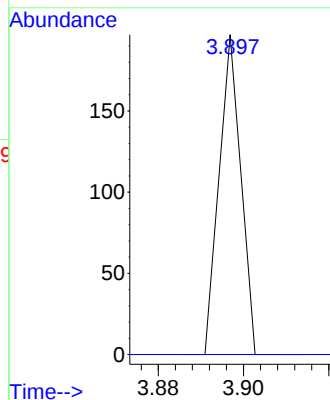
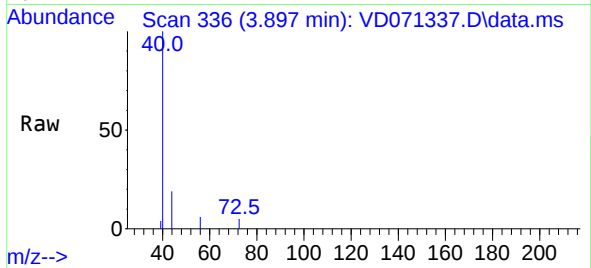




#13
Acrolein
Concen: 5.567 ug/l
RT: 3.897 min Scan# 31
Delta R.T. -0.029 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

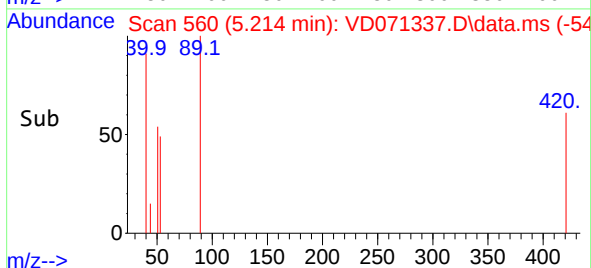
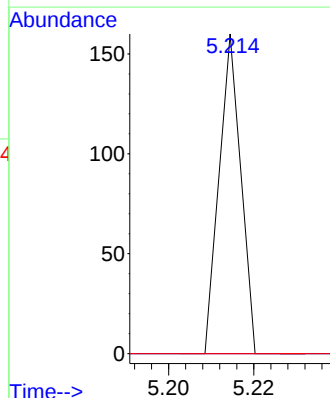
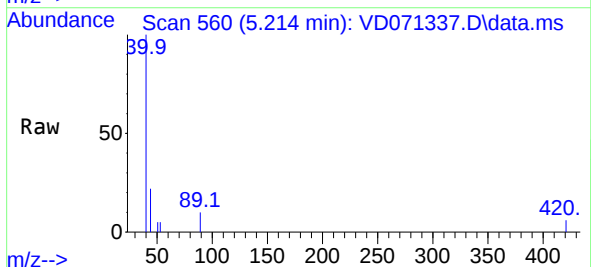
Instrument :
MSVOA_D
ClientSampleId :

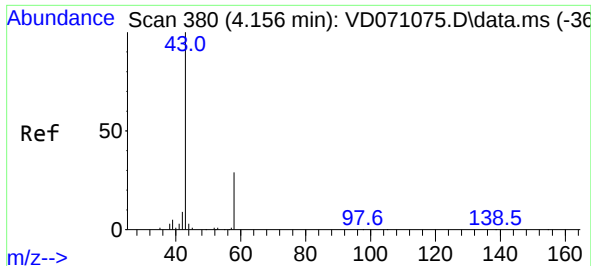
Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#15
Acrylonitrile
Concen: 1.612 ug/l
RT: 5.214 min Scan# 560
Delta R.T. -0.206 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 53 Resp: 56
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#

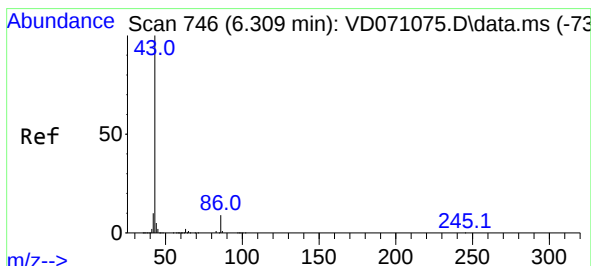
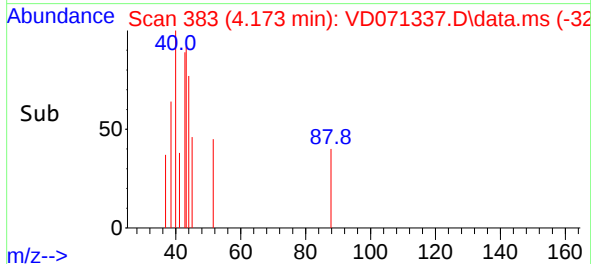
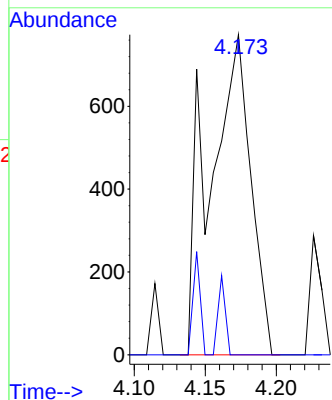
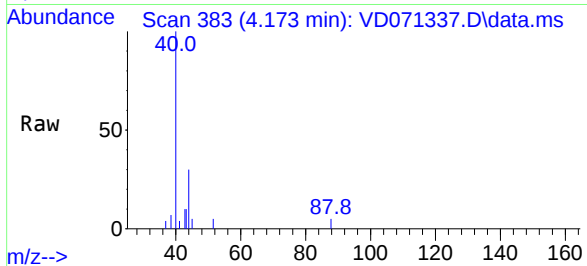




#16
Acetone
Concen: 58.926 ug/l
RT: 4.173 min Scan# 383
Delta R.T. 0.017 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

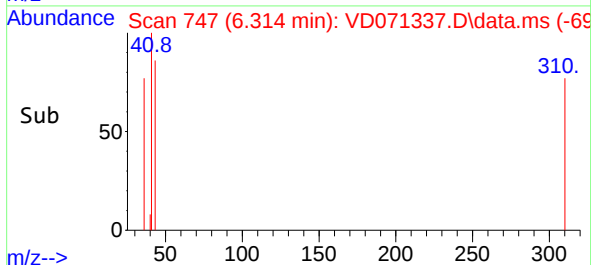
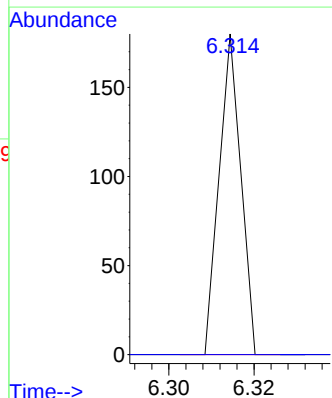
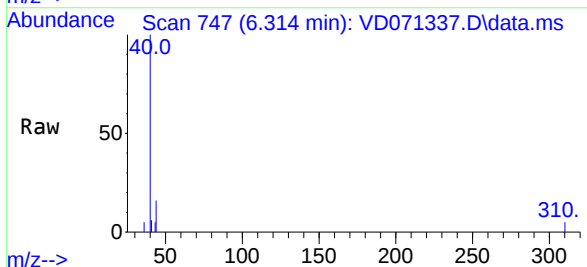
Instrument :
MSVOA_D
ClientSampleId :

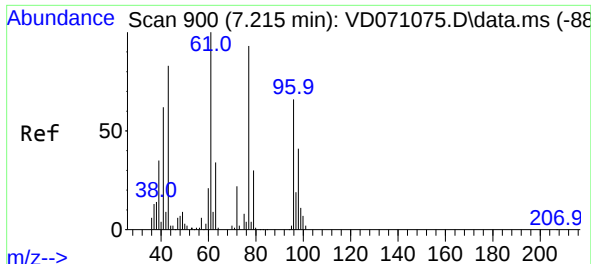
Tgt Ion: 43 Resp: 1545
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#23
Vinyl Acetate
Concen: 27.411 ug/l
RT: 6.314 min Scan# 747
Delta R.T. 0.005 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

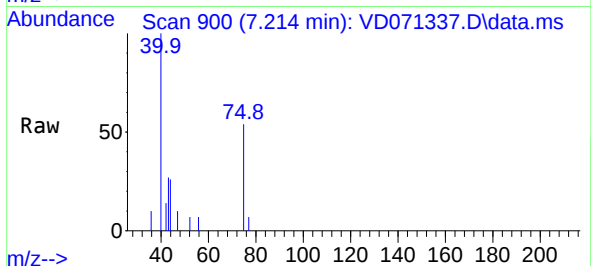
Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



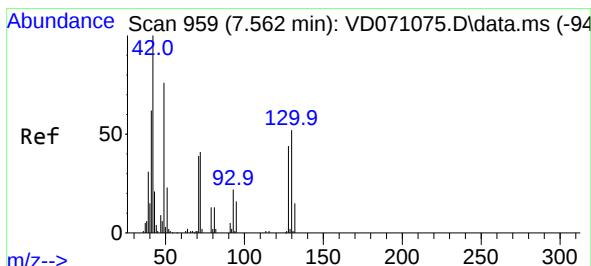
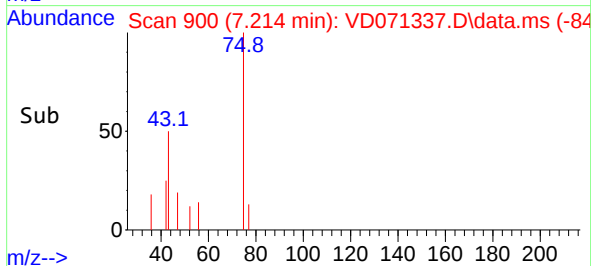
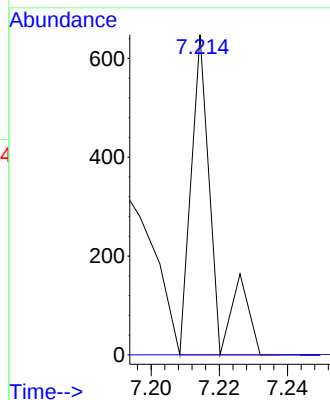


#25
2-Butanone
Concen: 32.934 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.001 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Instrument :
MSVOA_D
ClientSampleId :

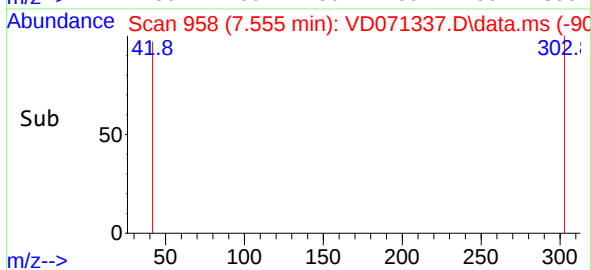
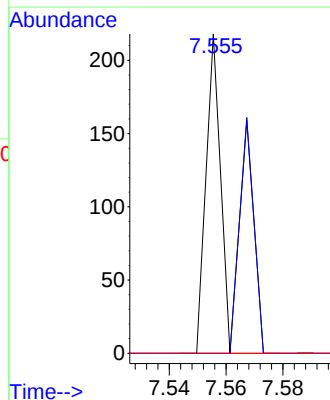
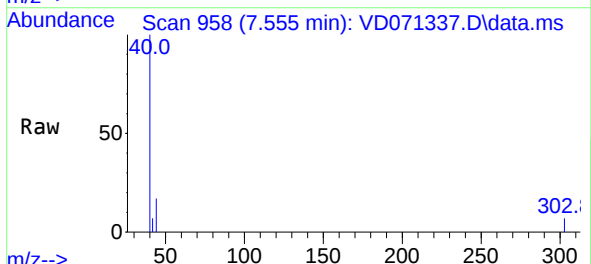


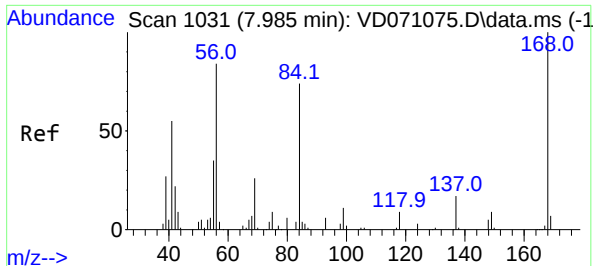
Tgt Ion: 43 Resp: 287
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 4.618 ug/l
RT: 7.555 min Scan# 958
Delta R.T. -0.007 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

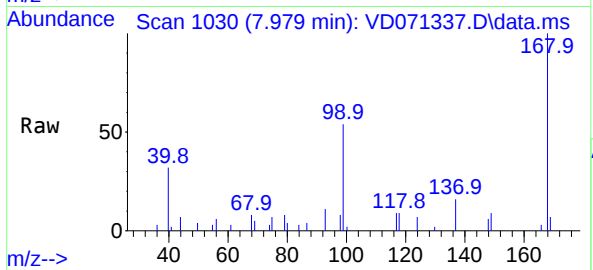
Tgt Ion: 42 Resp: 133
Ion Ratio Lower Upper
42 100
72 42.9 33.7 50.5
71 0.0 32.7 49.1#



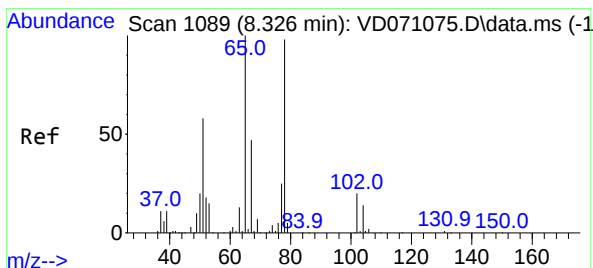
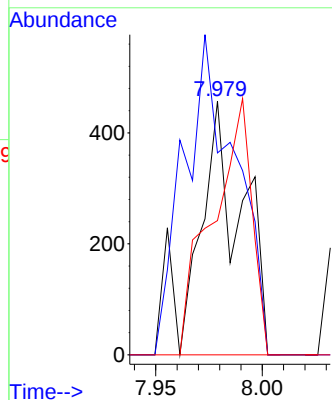
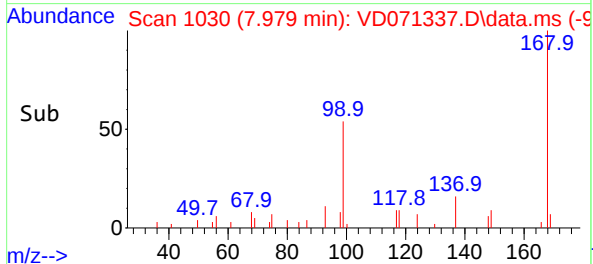


#31
Cyclohexane
Concen: 1.887 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

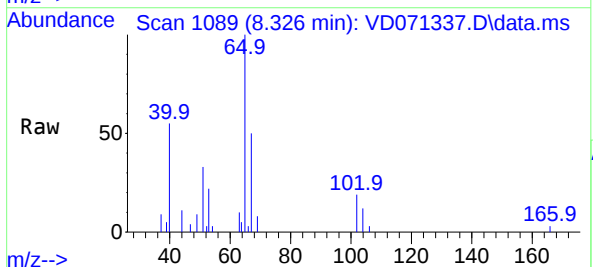
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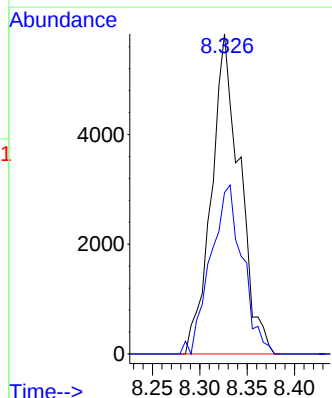
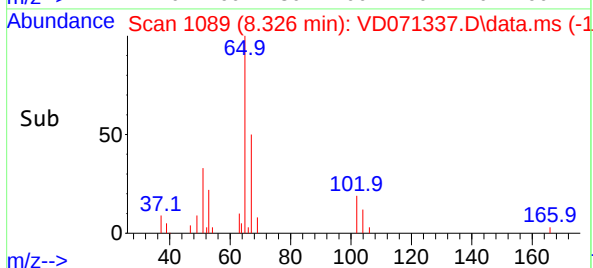
Tgt Ion: 56 Resp: 582
Ion Ratio Lower Upper
56 100
69 79.6 25.9 38.9#
84 53.0 64.3 96.5#

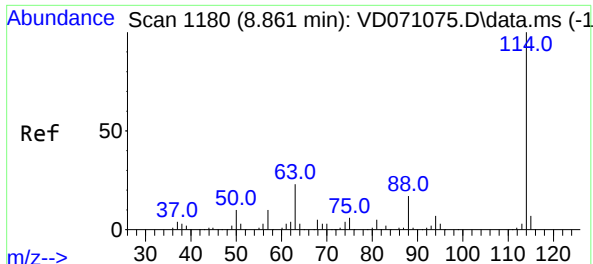


#33
1,2-Dichloroethane-d4
Concen: 67.193 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40



Tgt Ion: 65 Resp: 12186
Ion Ratio Lower Upper
65 100
67 59.2 0.0 112.2

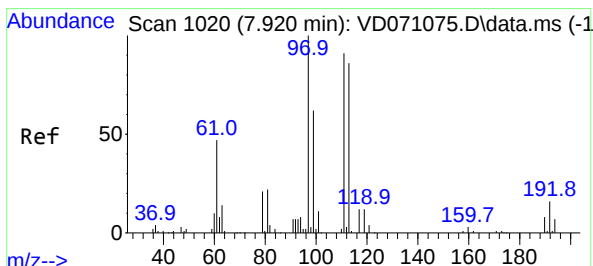
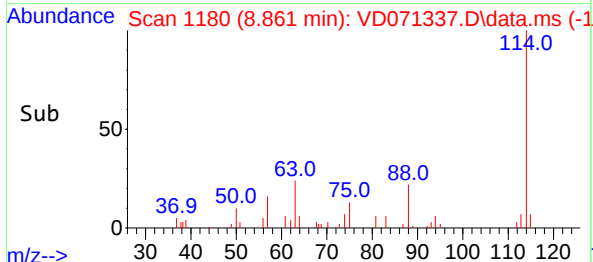
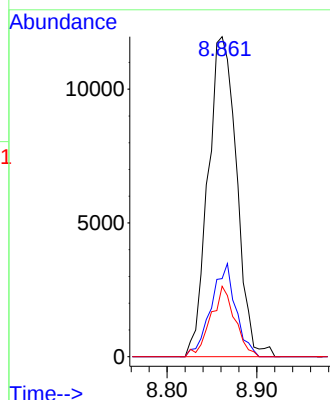
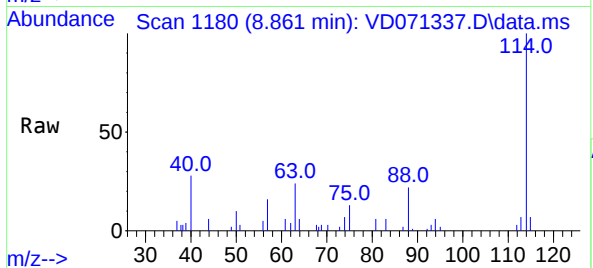




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

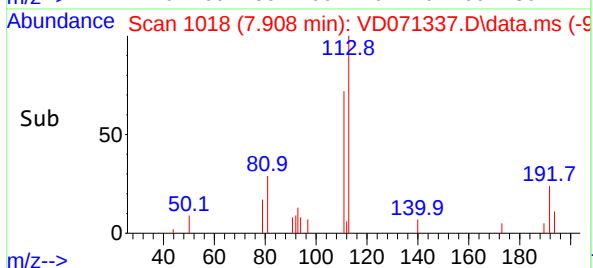
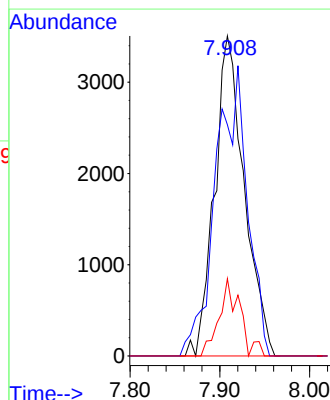
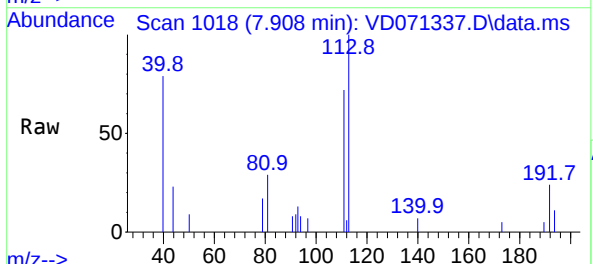
Instrument :
MSVOA_D
ClientSampleId :

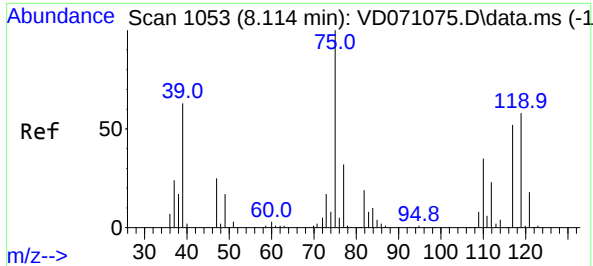
Tgt Ion:114	Resp:	26440
Ion Ratio	Lower	Upper
114	100	
63	24.4	0.0 41.8
88	22.0	0.0 32.8



#35
Dibromofluoromethane
Concen: 47.967 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. -0.012 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion:113	Resp:	8076
Ion Ratio	Lower	Upper
113	100	
111	97.0	82.0 123.0
192	17.1	15.2 22.8

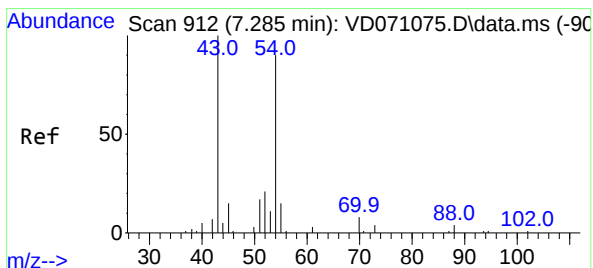
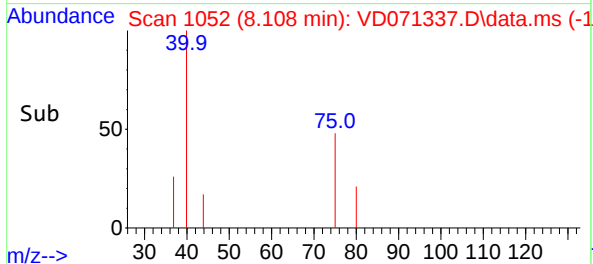
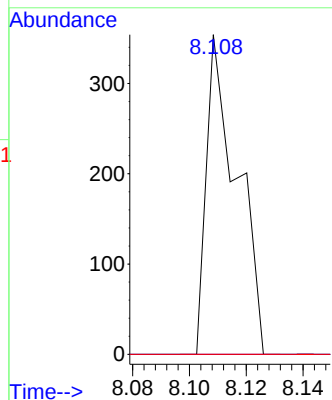
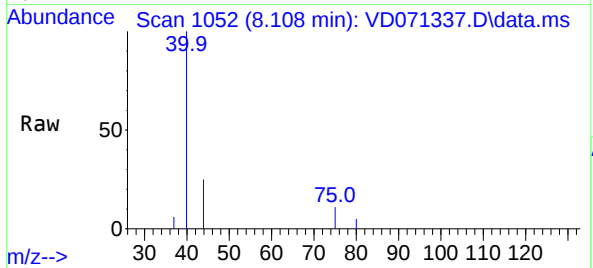




#36
1,1-Dichloropropene
Concen: 1.064 ug/l
RT: 8.108 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

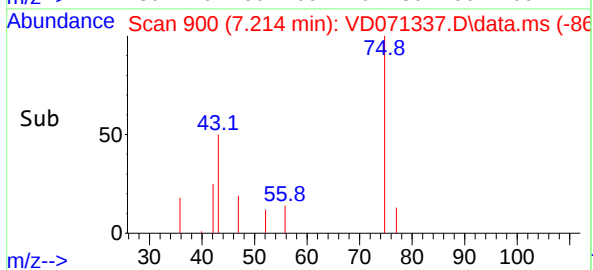
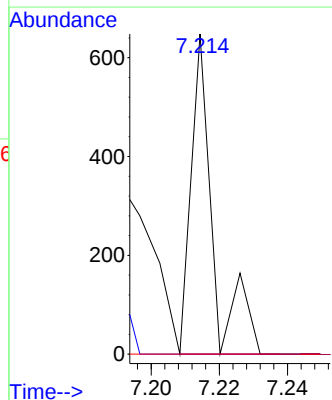
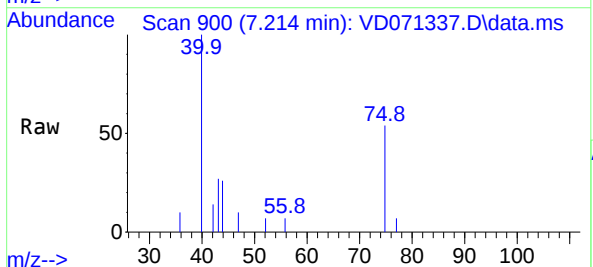
Instrument :
MSVOA_D
ClientSampleId :

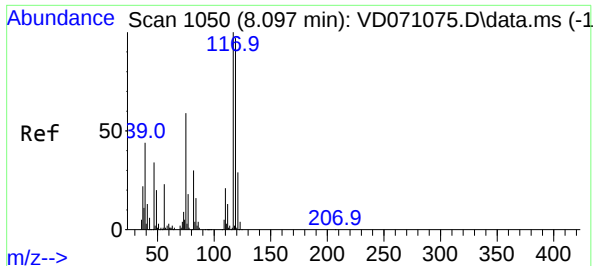
Tgt Ion: 75 Resp: 263
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 2.689 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.071 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 43 Resp: 287
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#

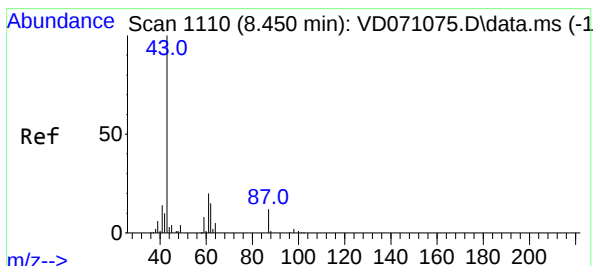
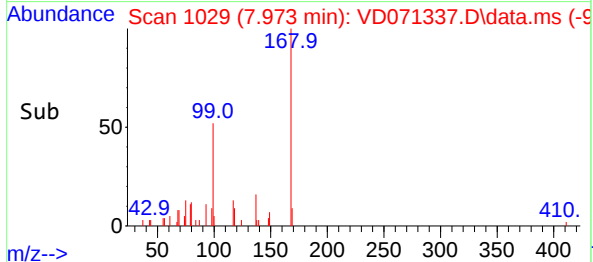
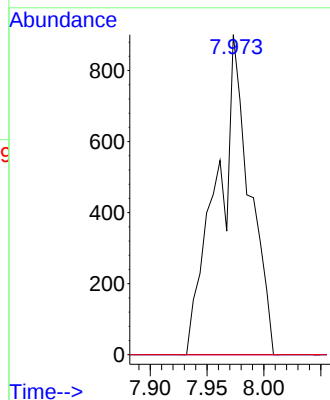
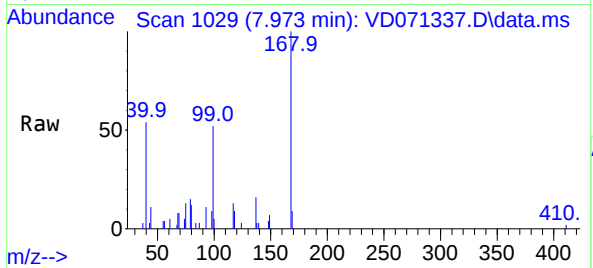




#38
Carbon Tetrachloride
Concen: 7.447 ug/l
RT: 7.973 min Scan# 1050
Delta R.T. -0.124 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

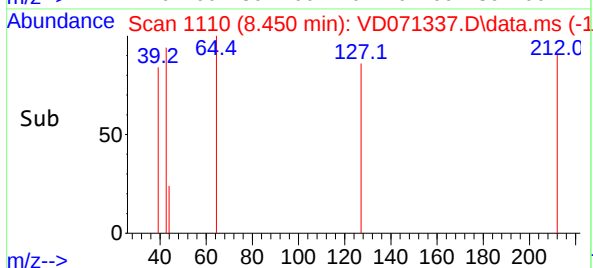
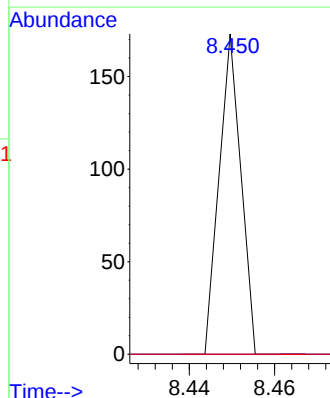
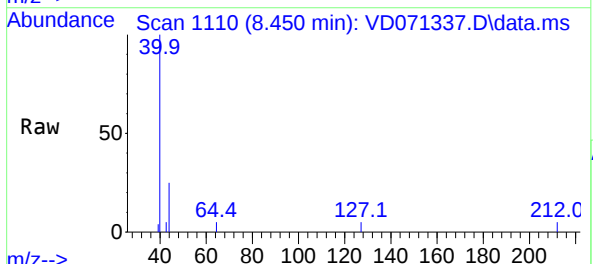
Instrument :
MSVOA_D
ClientSampleId :

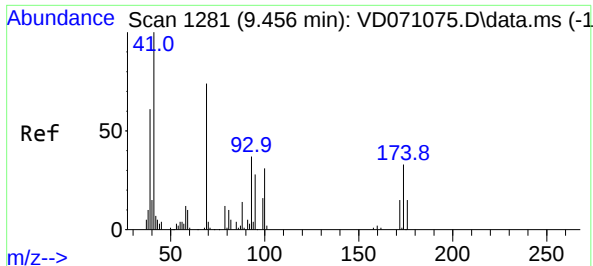
Tgt Ion:117 Resp: 1814
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.456 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

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





#48

Methyl methacrylate

Concen: 1.416 ug/l

RT: 9.461 min Scan# 1

Delta R.T. 0.005 min

Lab File: VD071337.D

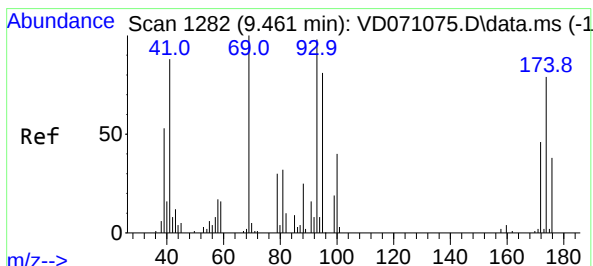
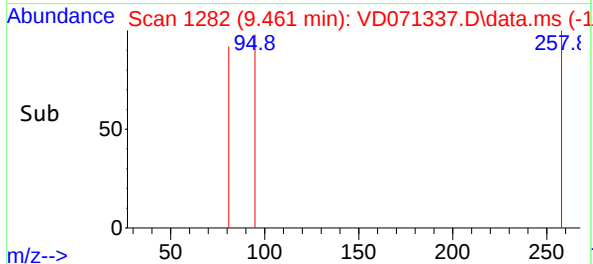
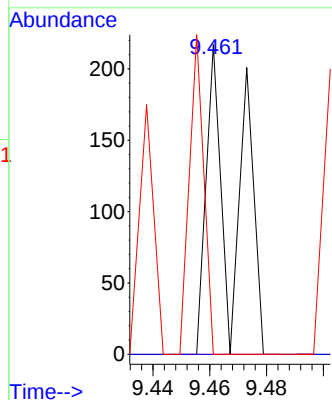
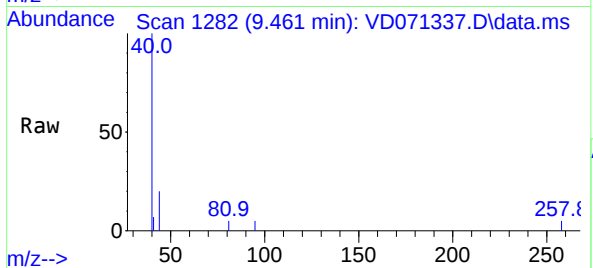
Acq: 15 Dec 2021 12:40

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	41	Resp:	148
Ion	Ratio	Lower	Upper
41	100		
69	0.0	69.8	104.6#
39	53.4	35.6	53.4



#49

1,4-Dioxane

Concen: 69.000 ug/l

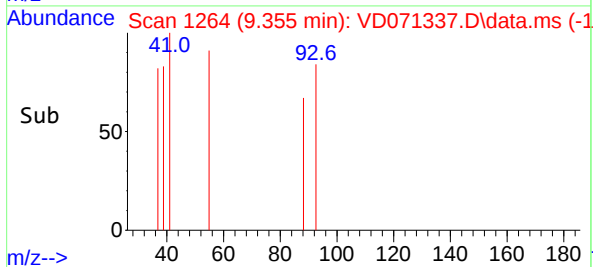
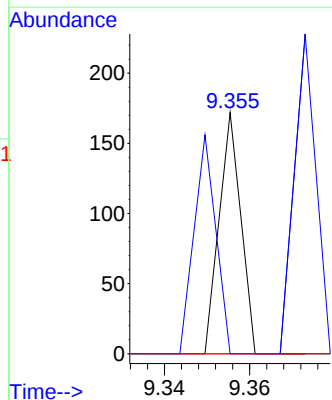
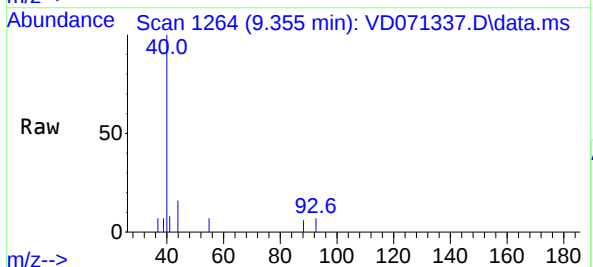
RT: 9.355 min Scan# 1264

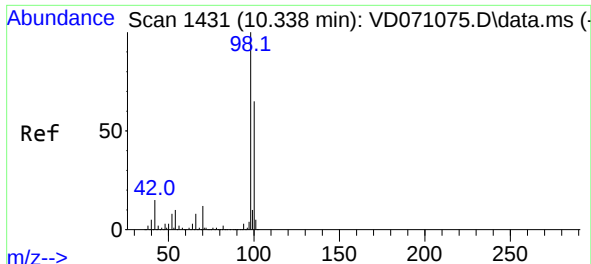
Delta R.T. -0.106 min

Lab File: VD071337.D

Acq: 15 Dec 2021 12:40

Tgt Ion:	88	Resp:	61
Ion	Ratio	Lower	Upper
88	100		
43	90.2	28.9	43.3#
58	0.0	56.3	84.5#

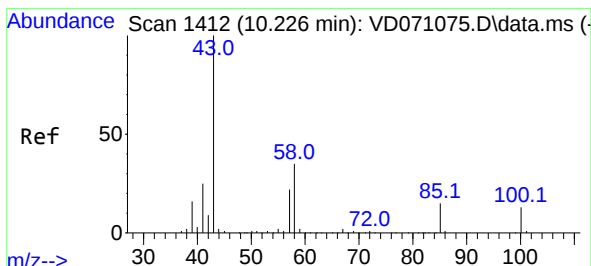
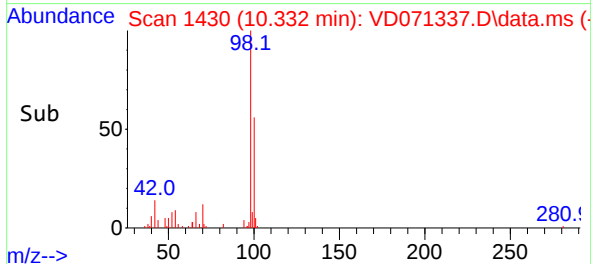
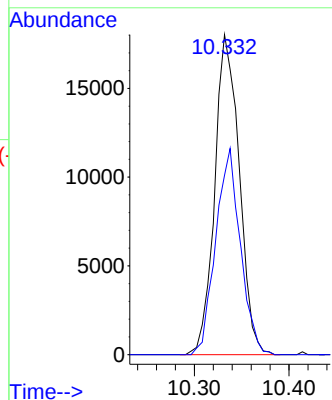
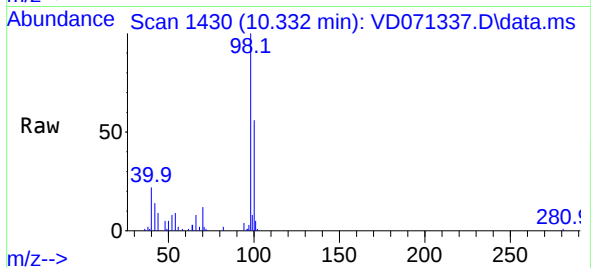




#50
Toluene-d8
Concen: 50.729 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

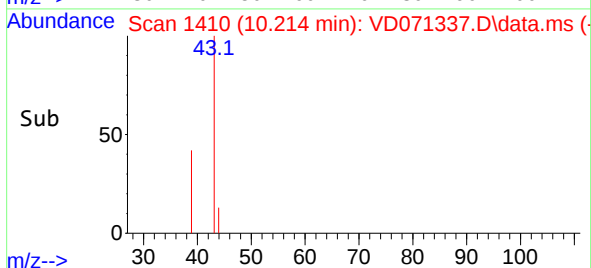
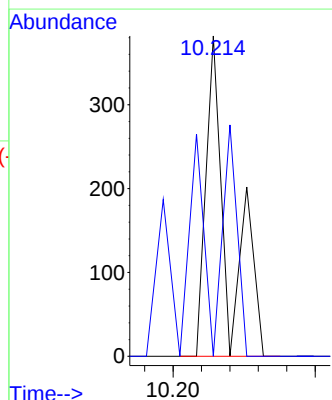
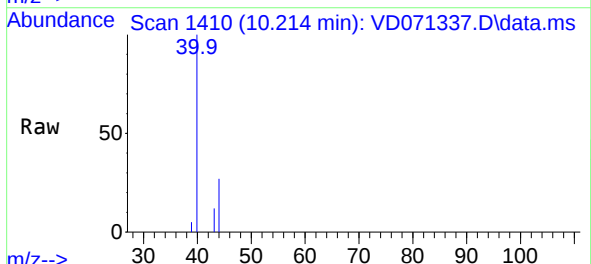
Instrument :
MSVOA_D
ClientSampleId :

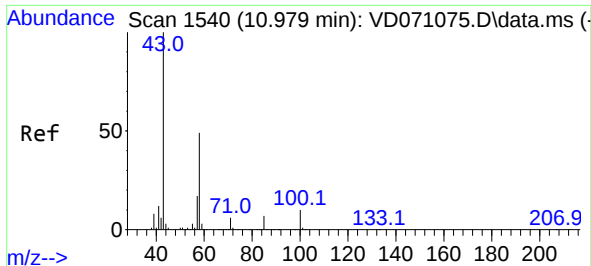
Tgt Ion: 98 Resp: 32503
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 32.153 ug/l
RT: 10.214 min Scan# 1410
Delta R.T. -0.012 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 43 Resp: 206
Ion Ratio Lower Upper
43 100
58 92.7 33.1 49.7#

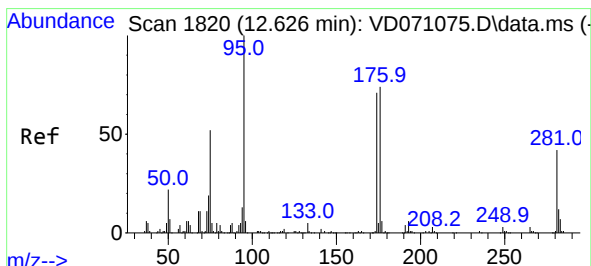
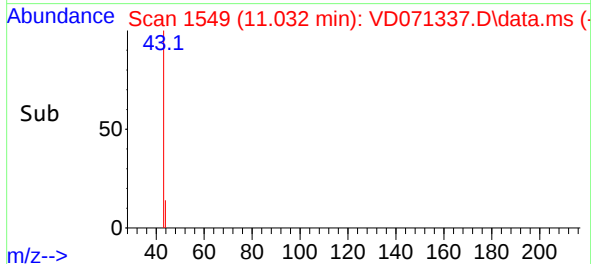
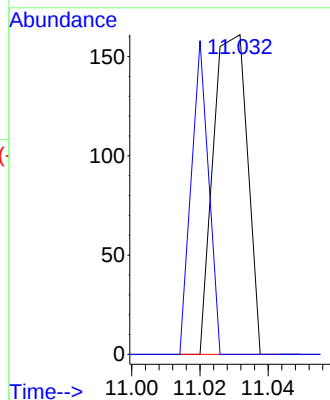
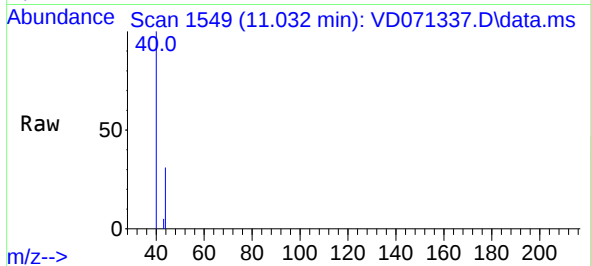




#59
2-Hexanone
Concen: 35.629 ug/l
RT: 11.032 min Scan# 111
Delta R.T. 0.053 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

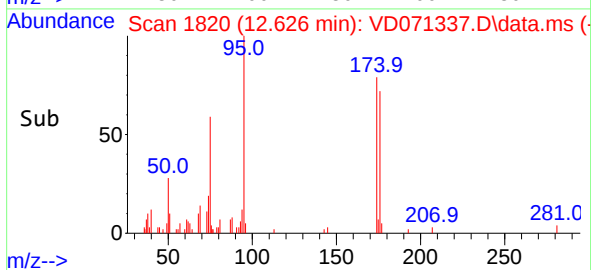
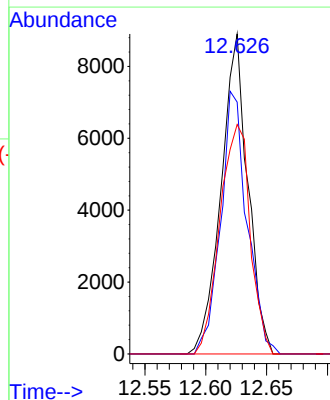
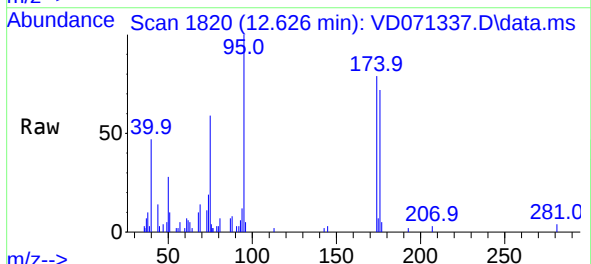
Instrument :
MSVOA_D
ClientSampleId :

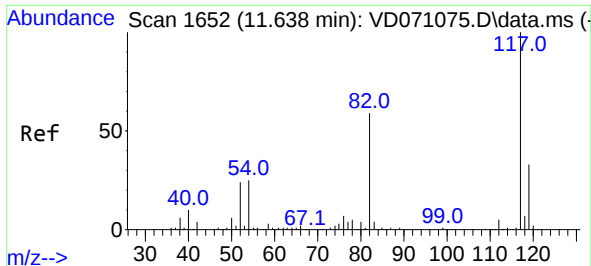
Tgt Ion: 43 Resp: 111
Ion Ratio Lower Upper
43 100
58 50.5 28.7 86.1



#62
4-Bromofluorobenzene
Concen: 61.329 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 95 Resp: 13621
Ion Ratio Lower Upper
95 100
174 81.3 0.0 159.4
176 81.1 0.0 154.0

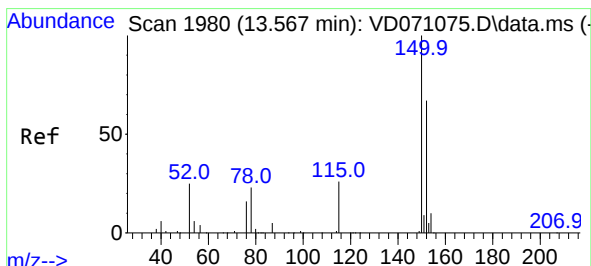
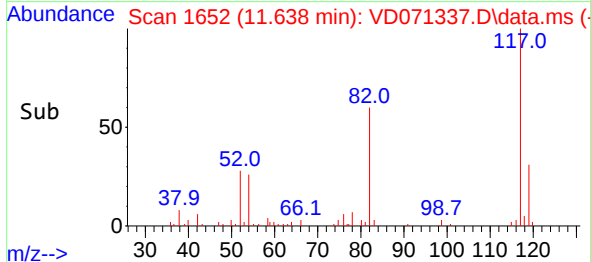
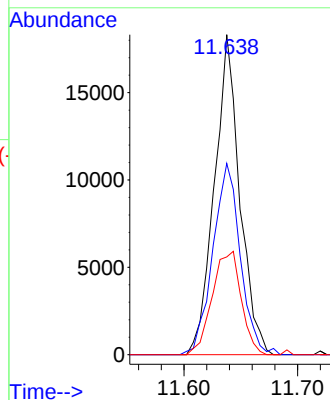
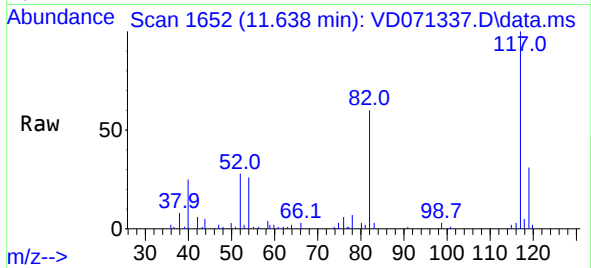




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

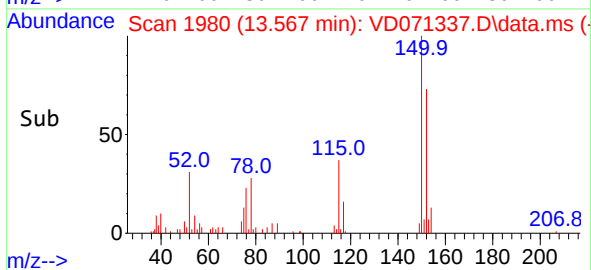
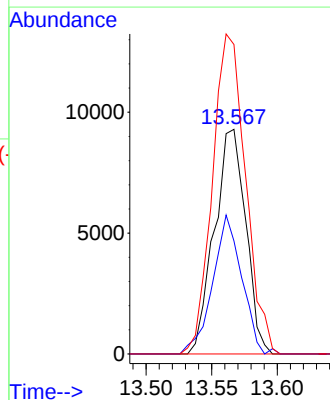
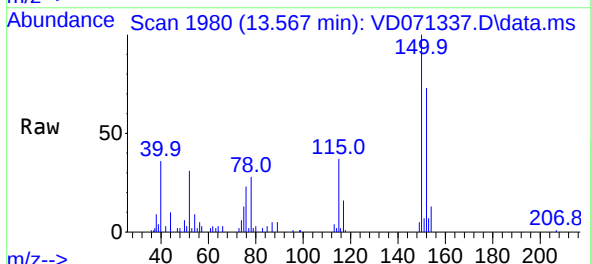
Instrument :
MSVOA_D
ClientSampleId :

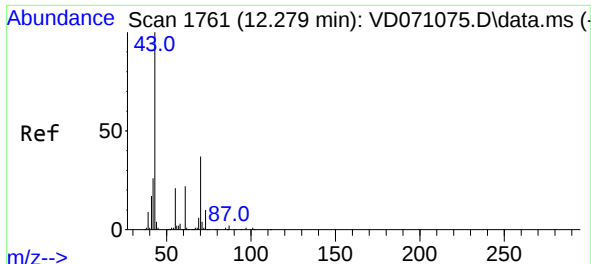
Tgt Ion:117 Resp: 28449
Ion Ratio Lower Upper
117 100
82 59.8 44.7 67.1
119 30.5 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

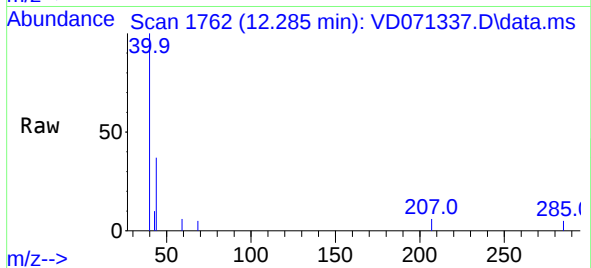
Tgt Ion:152 Resp: 15484
Ion Ratio Lower Upper
152 100
115 57.3 29.8 89.3
150 150.6 0.0 349.2



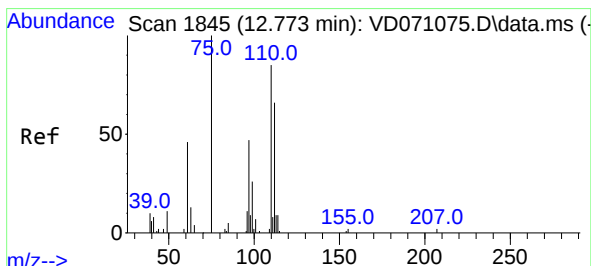
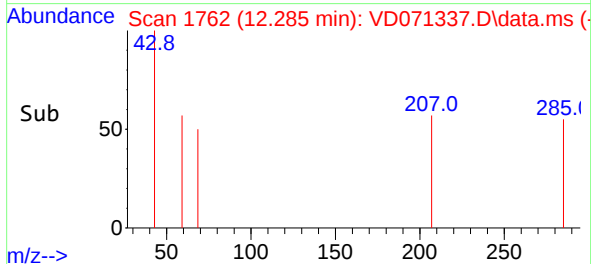
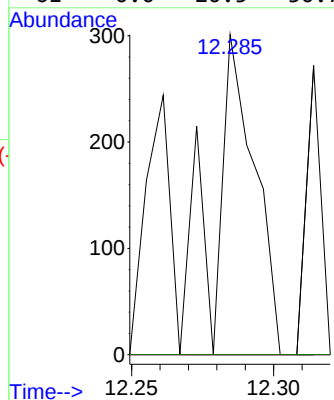


#74
N-amy1 acetate
Concen: 6.587 ug/l
RT: 12.285 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Instrument :
MSVOA_D
ClientSampleId :

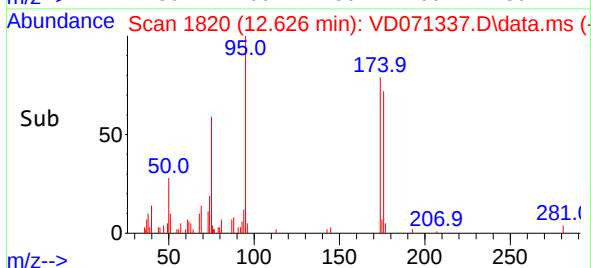
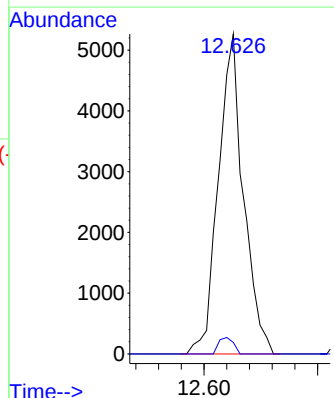
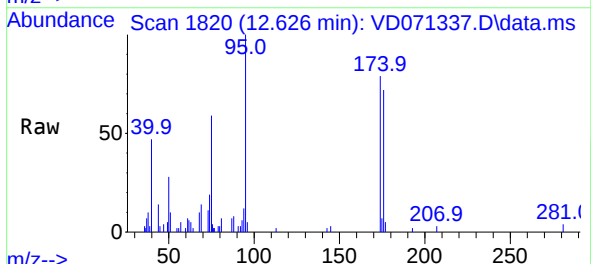


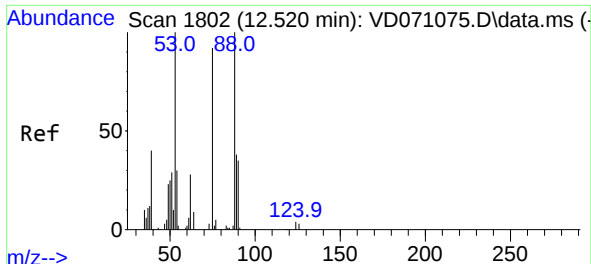
Tgt Ion: 43	Resp: 307
Ion Ratio	Lower Upper
43 100	
70 0.0	36.6 55.0#
55 0.0	22.5 33.7#
61 0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 54.696 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion: 75	Resp: 8069		
Ion Ratio	Lower	Upper	
75 100			
77 3.0	158.4	475.3#	

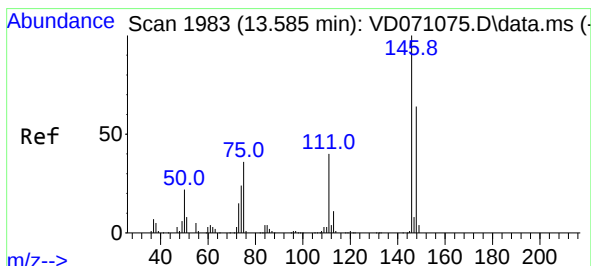
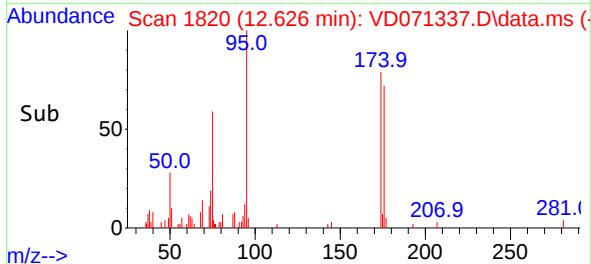
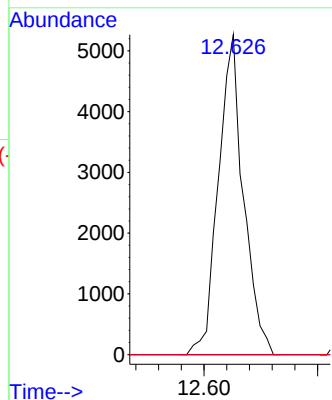
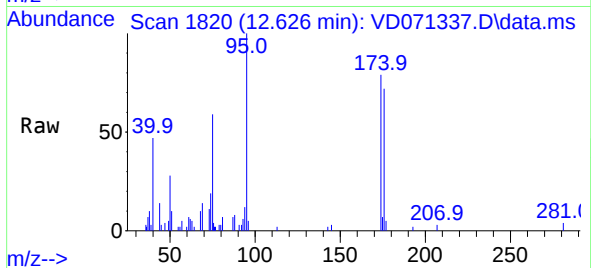




#81
trans-1,4-Dichloro-2-butene
Concen: 118.931 ug/l
RT: 12.626 min Scan# 1802
Delta R.T. 0.106 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

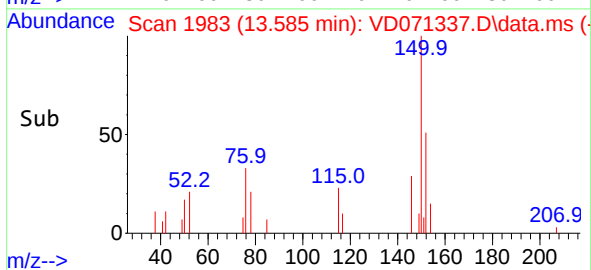
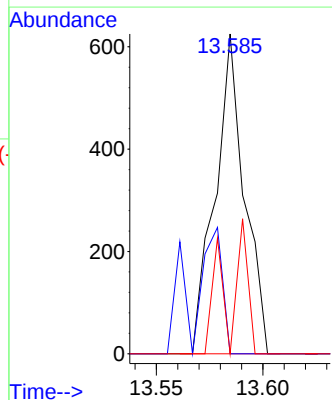
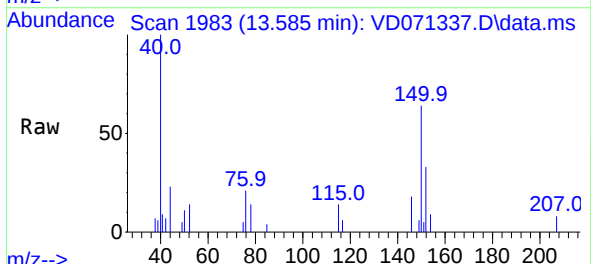
Instrument :
MSVOA_D
ClientSampleId :

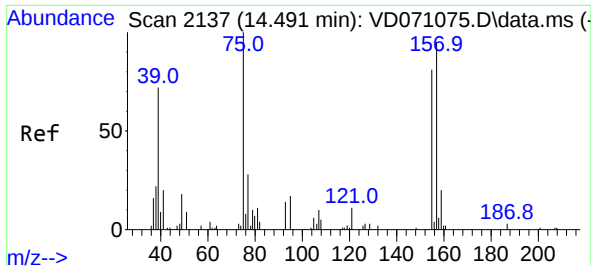
Tgt Ion: 75 Resp: 8069
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#



#88
1,4-Dichlorobenzene
Concen: 1.249 ug/l
RT: 13.585 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

Tgt Ion:146 Resp: 598
Ion Ratio Lower Upper
146 100
111 39.0 19.6 58.8
148 13.4 31.5 94.5#

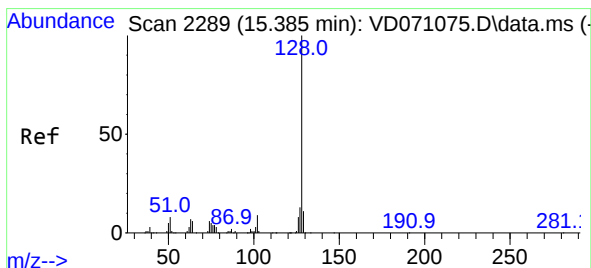
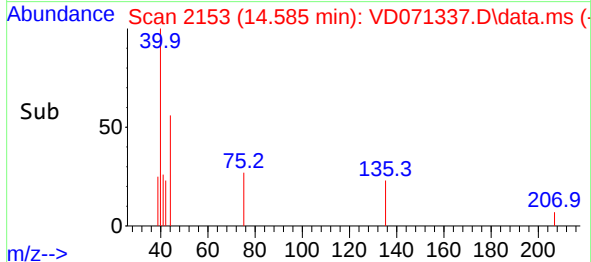
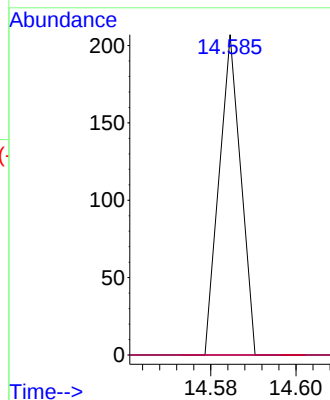
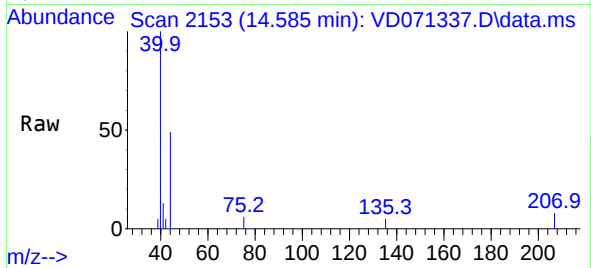




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.428 ug/l
RT: 14.585 min Scan# 2137
Delta R.T. 0.094 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

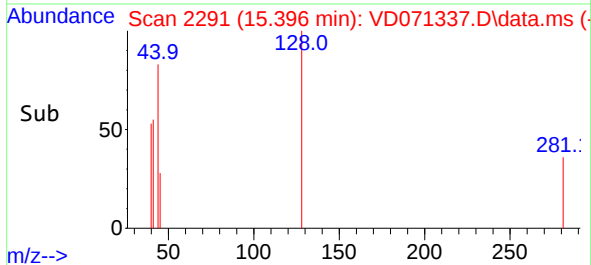
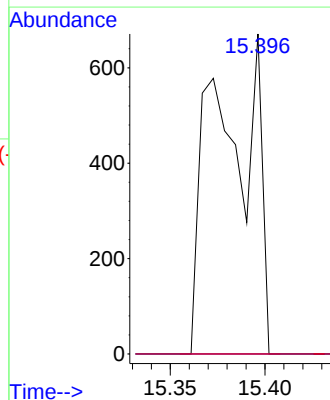
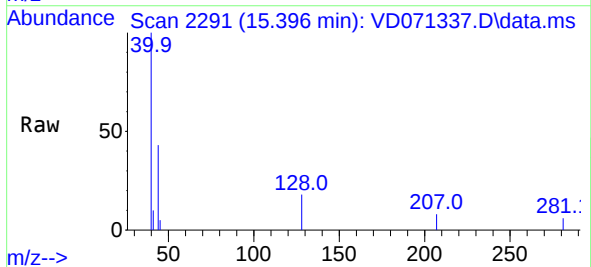
Instrument :
MSVOA_D
ClientSampleId :

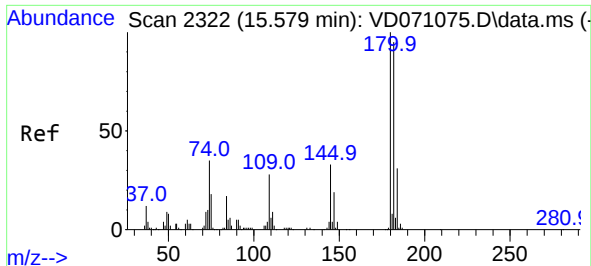
Tgt Ion: 75 Resp: 73
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#



#95
Naphthalene
Concen: 2.325 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. 0.011 min
Lab File: VD071337.D
Acq: 15 Dec 2021 12:40

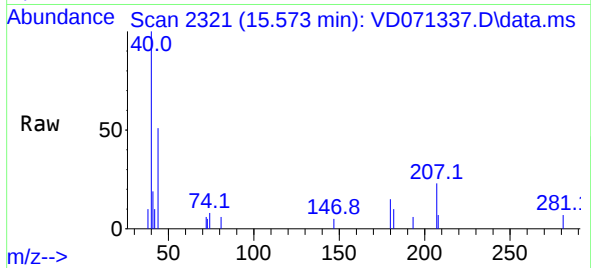
Tgt Ion: 128 Resp: 1051
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.832 ug/l
 RT: 15.573 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VD071337.D
 Acq: 15 Dec 2021 12:40

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	180	Resp:	399
Ion	Ratio	Lower	Upper
180	100		
182	102.5	46.7	140.1
145	0.0	15.9	47.6#

