

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121321\
 Data File : VD071303.D
 Acq On : 13 Dec 2021 18:20
 Operator : VA/SY
 Sample : M5022-19
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 08:15:10 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)

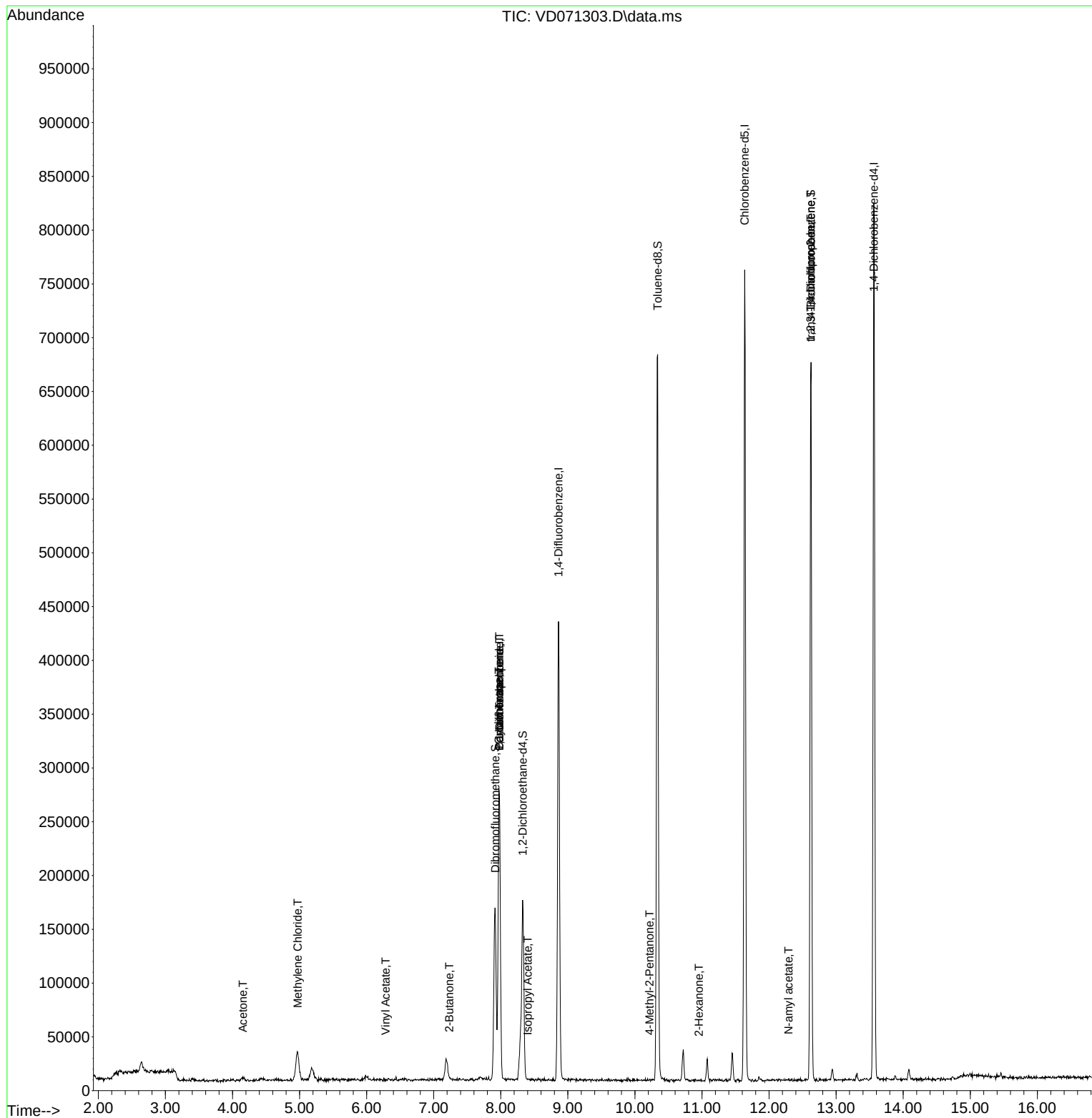
Internal Standards						
1) Pentafluorobenzene	7.979	168	194004	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	339088	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	393350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	202619	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	125275	55.032	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 110.060%	
35) Dibromofluoromethane	7.920	113	115285	53.391	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.780%	
50) Toluene-d8	10.338	98	441531	53.733	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 107.460%	
62) 4-Bromofluorobenzene	12.626	95	197337	69.281	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 138.560%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.179	59	10915	Below Cal	#	71
16) Acetone	4.156	43	3526	35.911	ug/l #	66
20) Methylene Chloride	4.973	84	18746	4.347	ug/l	94
23) Vinyl Acetate	6.285	43	73	27.236	ug/l #	72
25) 2-Butanone	7.232	43	207	28.622	ug/l #	45
31) Cyclohexane	7.973	56	5689	1.469	ug/l #	43
36) 1,1-Dichloropropene	7.979	75	17878	5.641	ug/l #	50
38) Carbon Tetrachloride	7.979	117	20125	6.442	ug/l #	18
41) Methacrylonitrile	7.538	41	67	Below Cal	#	1
43) Isopropyl Acetate	8.402	43	71	5.244	ug/l #	47
51) 4-Methyl-2-Pentanone	10.220	43	874	31.149	ug/l #	34
59) 2-Hexanone	10.955	43	72	34.627	ug/l #	22
74) N-amyl acetate	12.291	43	303	5.768	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	111948	57.990	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	111948	125.746	ug/l #	18

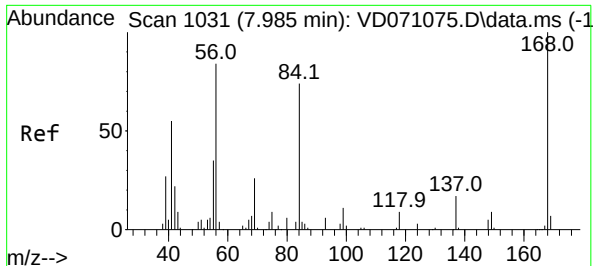
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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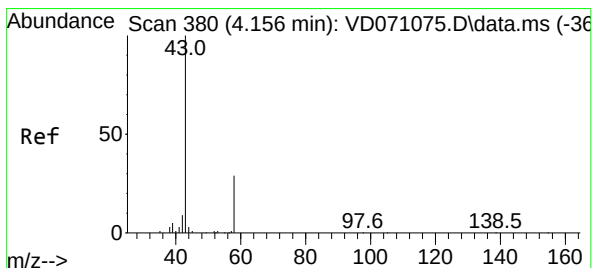
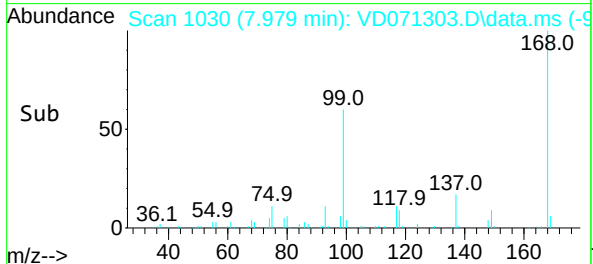
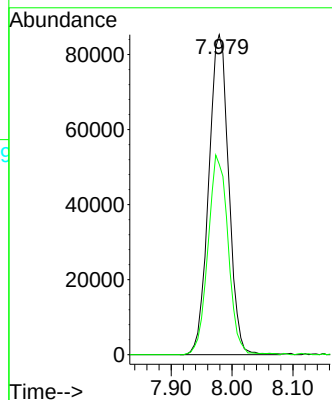
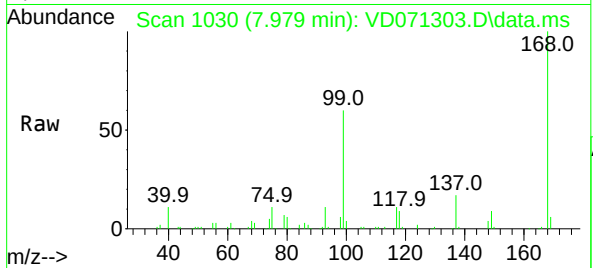




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

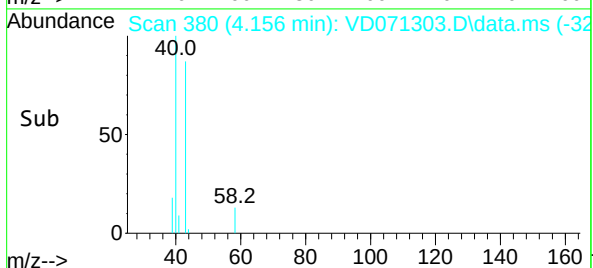
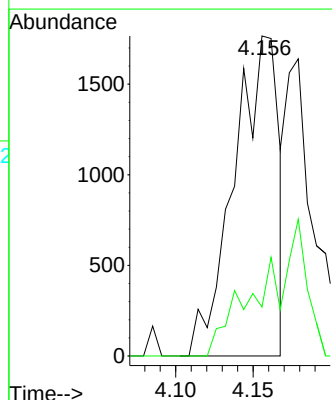
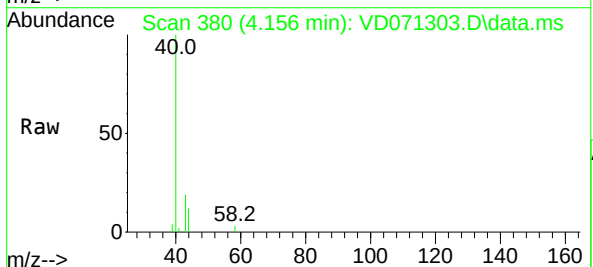
Instrument :
MSVOA_D
ClientSampleId :

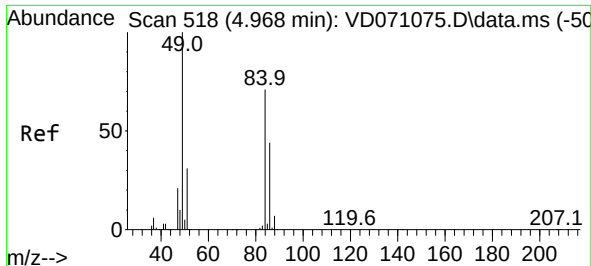
Tgt Ion:168 Resp: 194004
Ion Ratio Lower Upper
168 100
99 59.5 46.6 69.8



#16
Acetone
Concen: 35.911 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

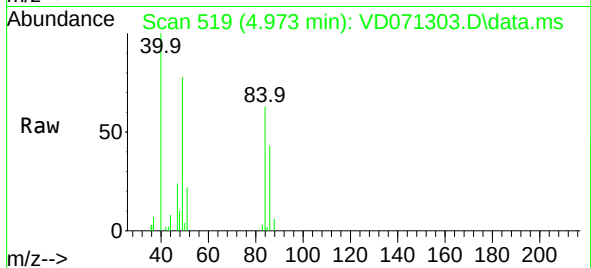
Tgt Ion: 43 Resp: 3526
Ion Ratio Lower Upper
43 100
58 15.3 27.8 41.8#



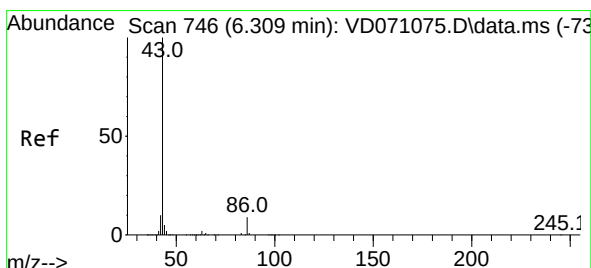
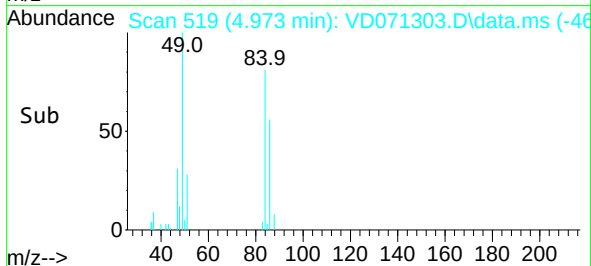
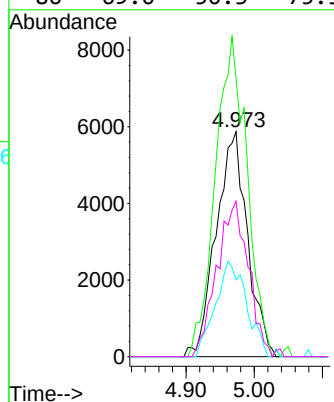


#20
Methylene Chloride
Concen: 4.347 ug/l
RT: 4.973 min Scan# 518
Delta R.T. 0.005 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

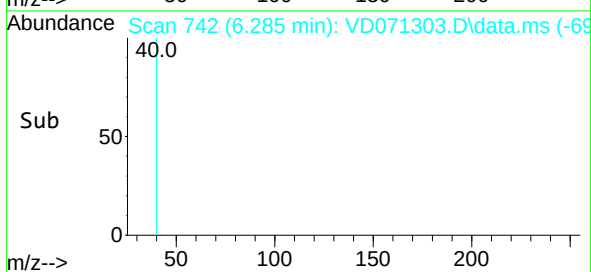
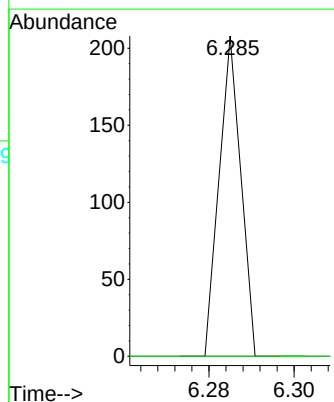
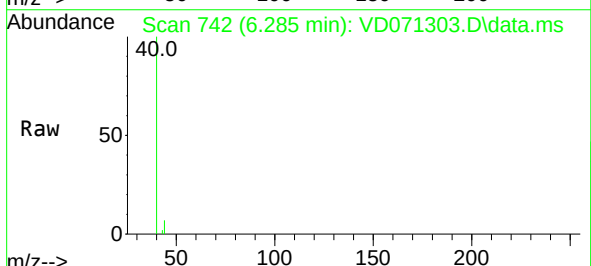


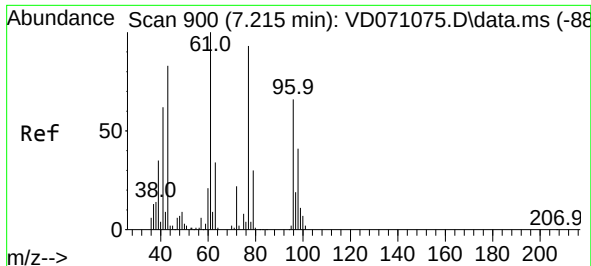
Tgt Ion: 84	Resp: 18746
Ion Ratio	Lower Upper
84 100	
49 123.9	95.8 143.6
51 34.2	30.9 46.3
86 69.0	50.3 75.5



#23
Vinyl Acetate
Concen: 27.236 ug/l
RT: 6.285 min Scan# 742
Delta R.T. -0.024 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

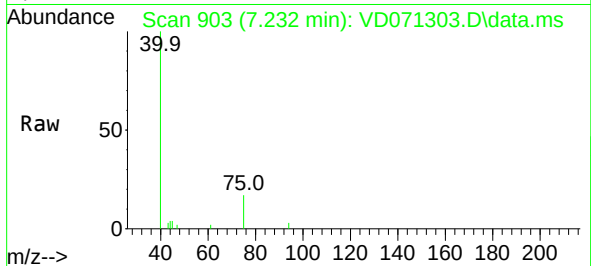
Tgt Ion: 43	Resp: 73		
Ion Ratio	Lower	Upper	
43 100			
86 0.0	8.2	12.4#	



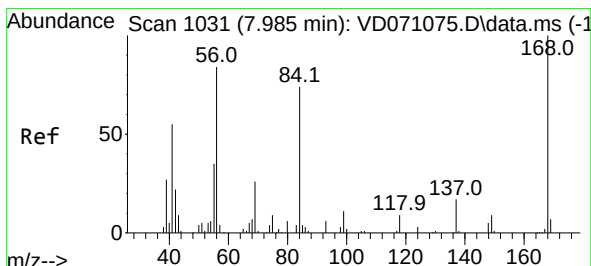
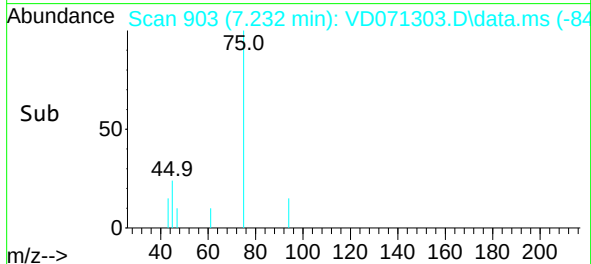
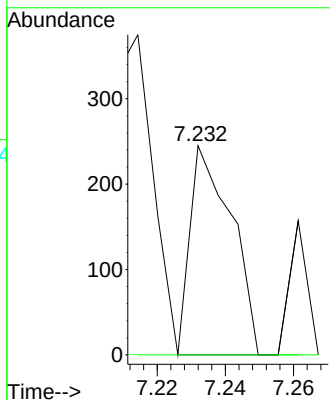


#25
2-Butanone
Concen: 28.622 ug/l
RT: 7.232 min Scan# 90
Delta R.T. 0.017 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

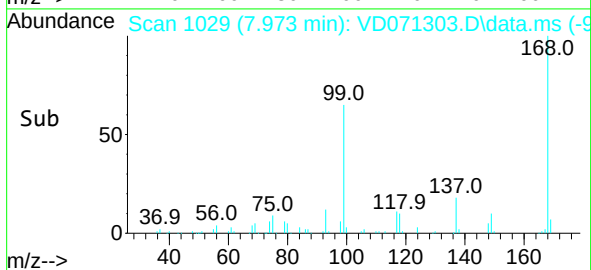
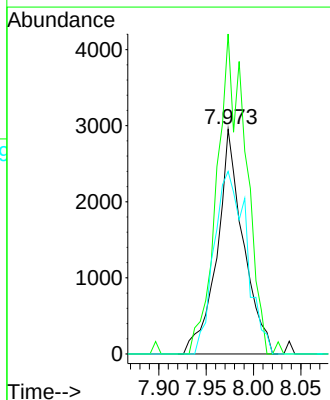
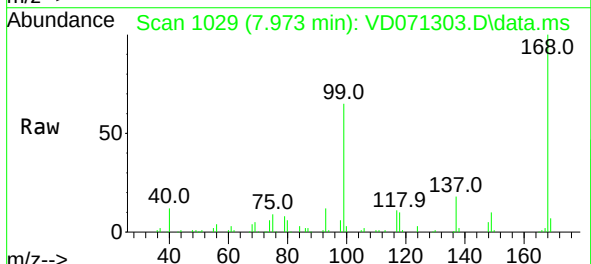


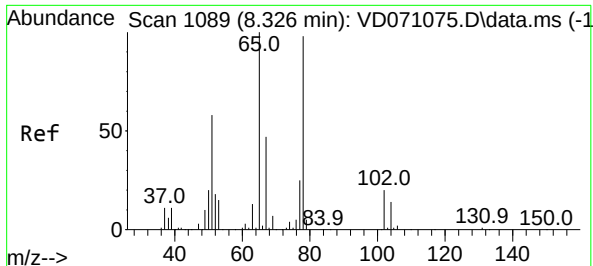
Tgt Ion: 43 Resp: 207
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#31
Cyclohexane
Concen: 1.469 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Tgt Ion: 56 Resp: 5689
Ion Ratio Lower Upper
56 100
69 142.4 25.9 38.9#
84 81.3 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 55.032 ug/l

RT: 8.326 min Scan# 110

Delta R.T. 0.000 min

Lab File: VD071303.D

Acq: 13 Dec 2021 18:20

Instrument :

MSVOA_D

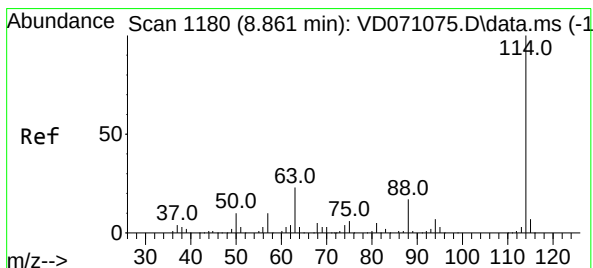
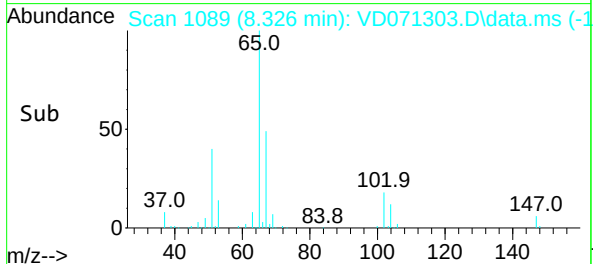
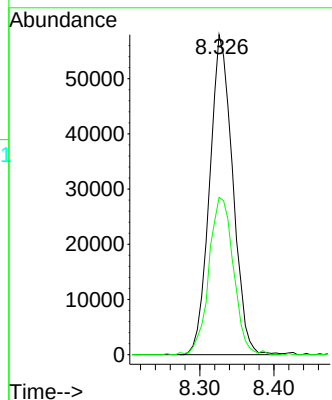
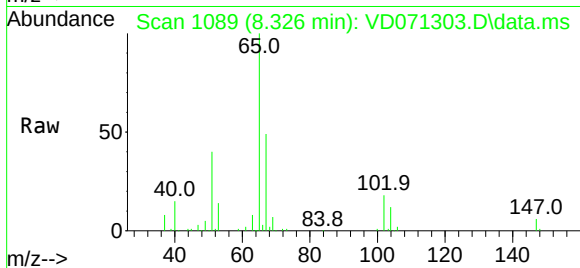
ClientSampleId :

Tgt Ion: 65 Resp: 125275

Ion Ratio Lower Upper

65 100

67 52.3 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: VD071303.D

Acq: 13 Dec 2021 18:20

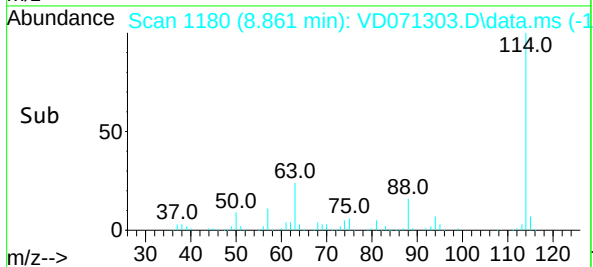
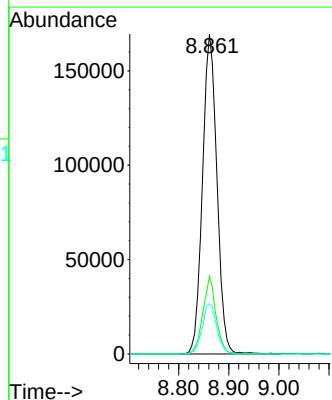
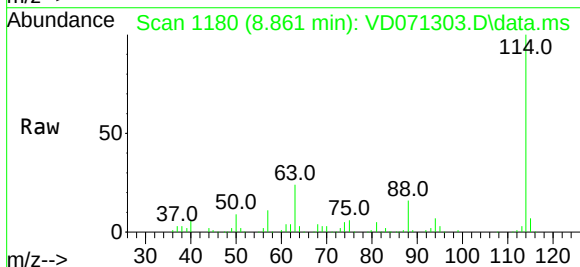
Tgt Ion: 114 Resp: 339088

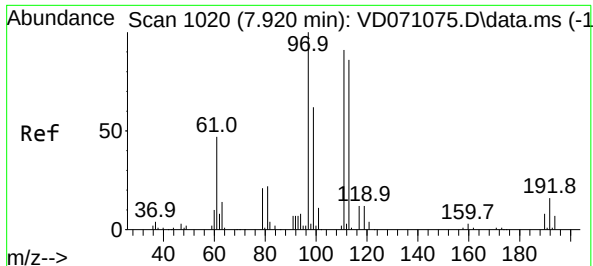
Ion Ratio Lower Upper

114 100

63 24.3 0.0 41.8

88 15.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 53.391 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.000 min

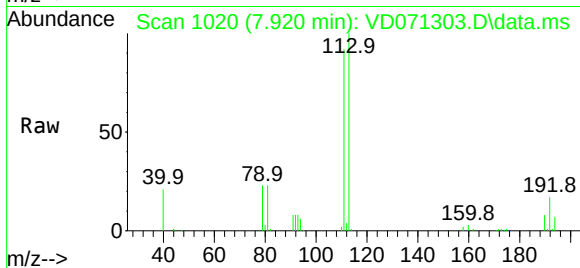
Lab File: VD071303.D

Acq: 13 Dec 2021 18:20

Instrument :

MSVOA_D

ClientSampleId :



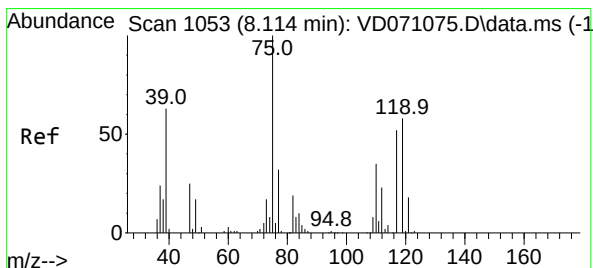
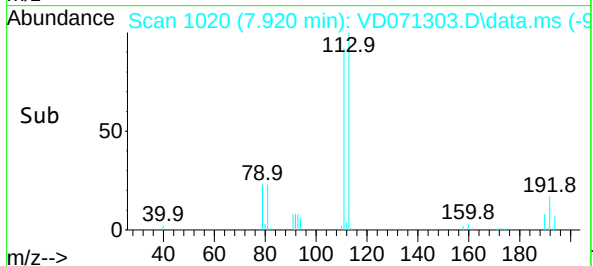
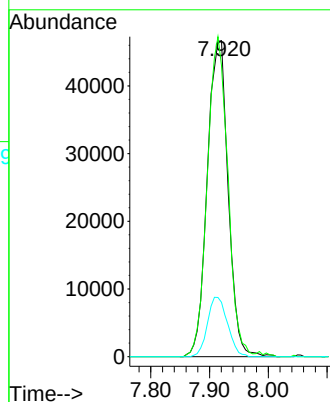
Tgt Ion:113 Resp: 115285

Ion Ratio Lower Upper

113 100

111 99.4 82.0 123.0

192 18.1 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.641 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.135 min

Lab File: VD071303.D

Acq: 13 Dec 2021 18:20

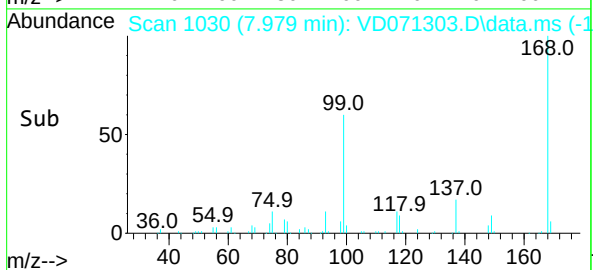
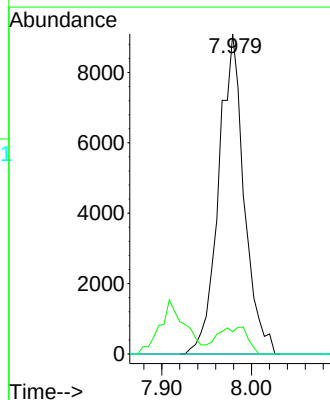
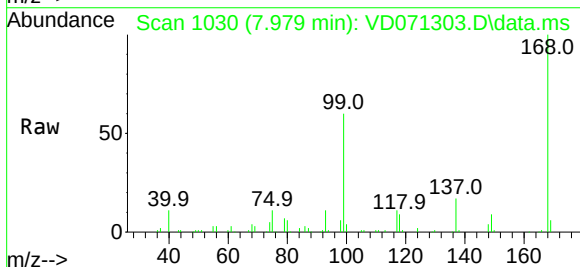
Tgt Ion: 75 Resp: 17878

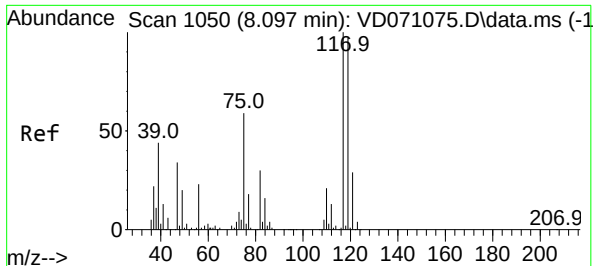
Ion Ratio Lower Upper

75 100

110 9.9 17.8 53.4#

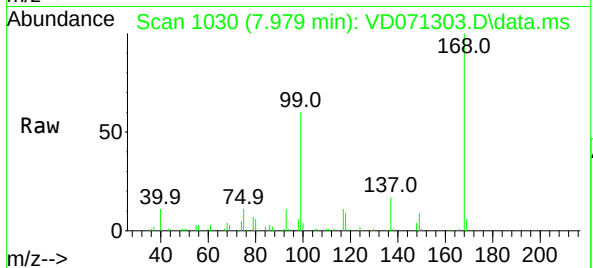
77 0.0 24.8 37.2#



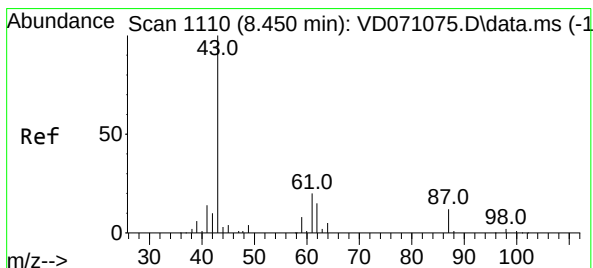
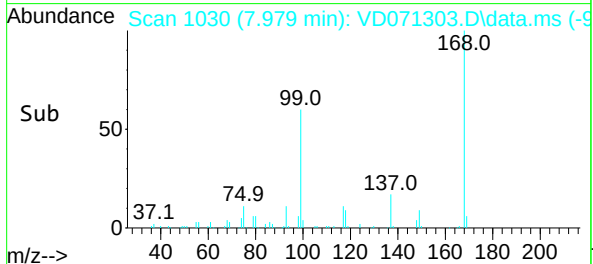
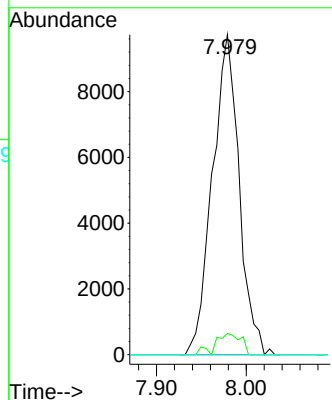


#38
Carbon Tetrachloride
Concen: 6.442 ug/l
RT: 7.979 min Scan# 1102
Delta R.T. -0.118 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Instrument :
MSVOA_D
ClientSampleId :

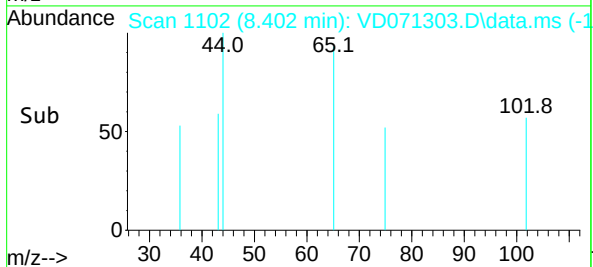
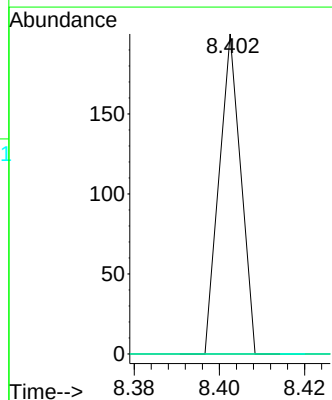
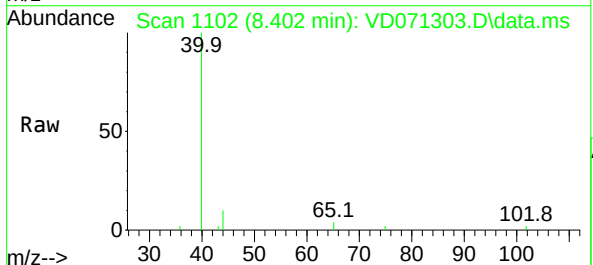


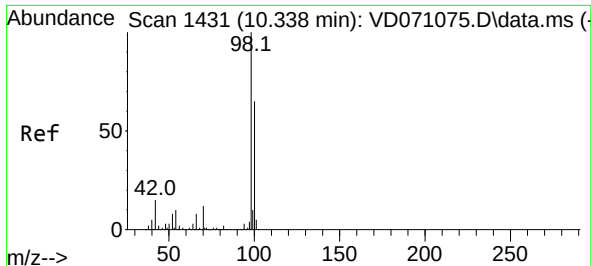
Tgt Ion:117 Resp: 20125
Ion Ratio Lower Upper
117 100
119 6.6 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.244 ug/l
RT: 8.402 min Scan# 1102
Delta R.T. -0.048 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#

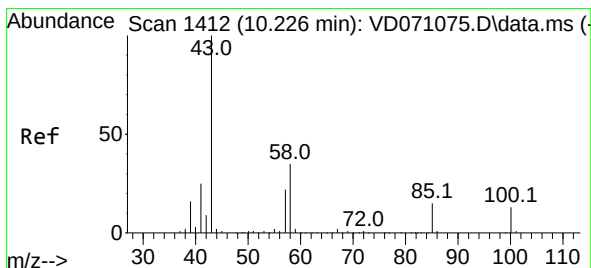
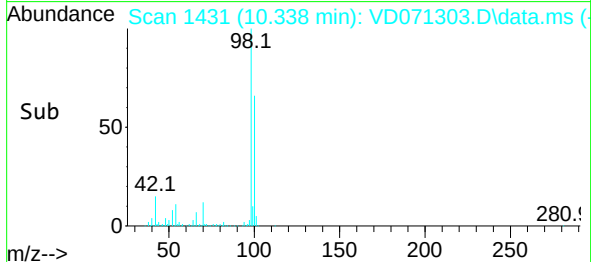
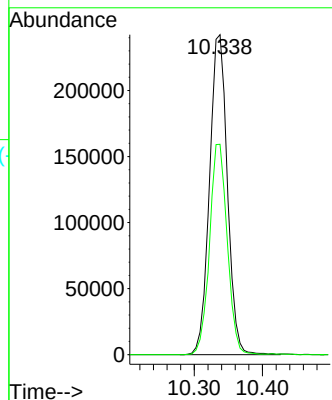
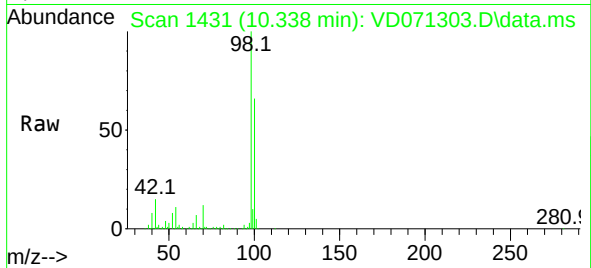




#50
Toluene-d8
Concen: 53.733 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

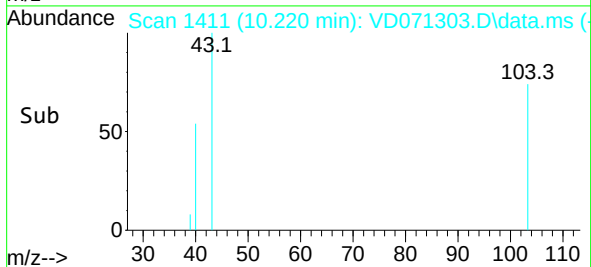
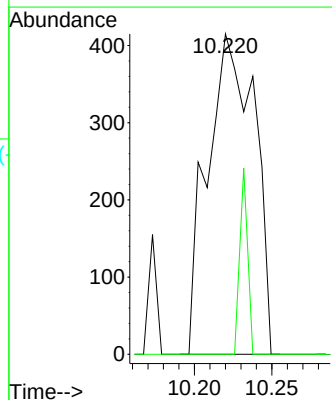
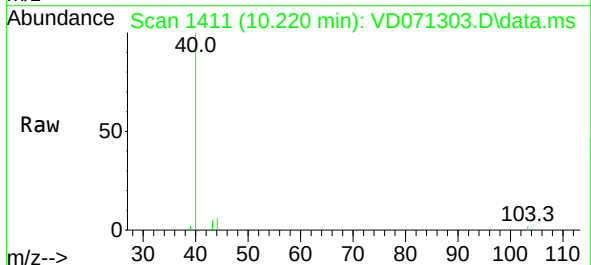
Instrument :
MSVOA_D
ClientSampleId :

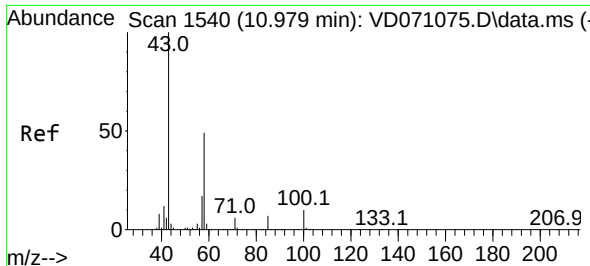
Tgt Ion: 98 Resp: 441531
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.149 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Tgt Ion: 43 Resp: 874
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

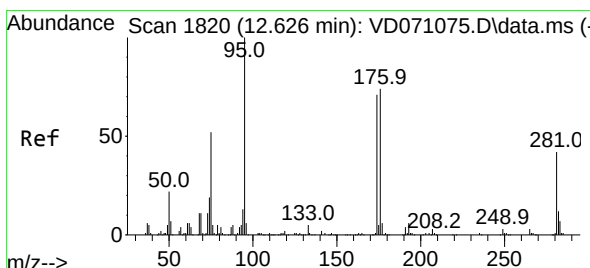
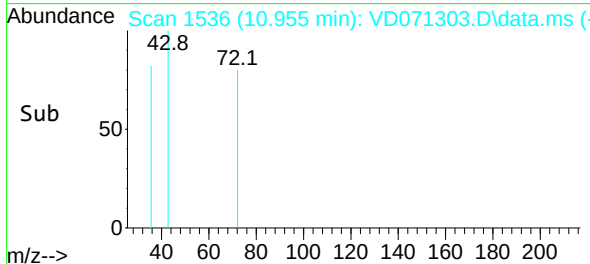
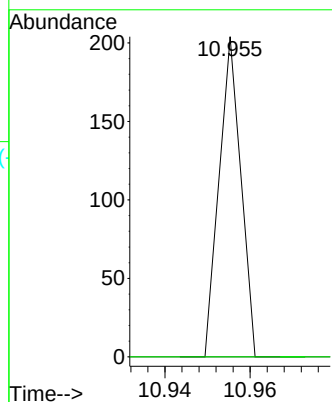
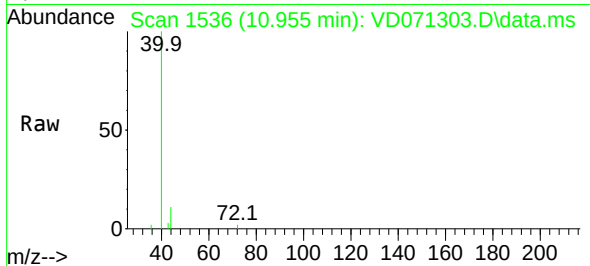




#59
2-Hexanone
Concen: 34.627 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.024 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

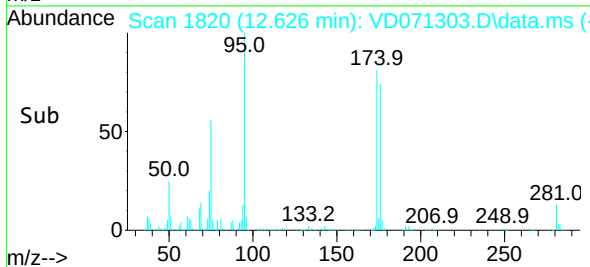
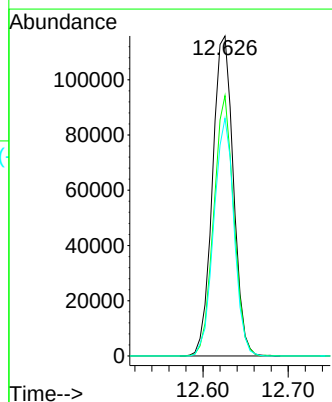
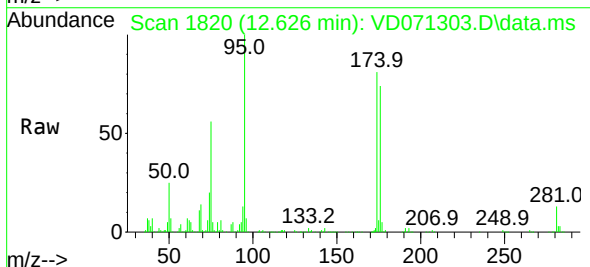
Instrument :
MSVOA_D
ClientSampleId :

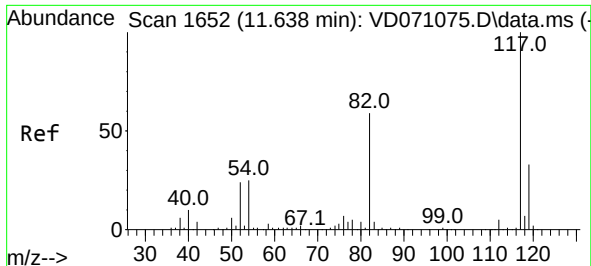
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 69.281 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Tgt Ion: 95 Resp: 197337
Ion Ratio Lower Upper
95 100
174 77.8 0.0 159.4
176 71.7 0.0 154.0

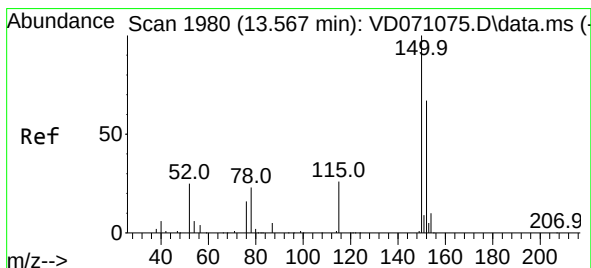
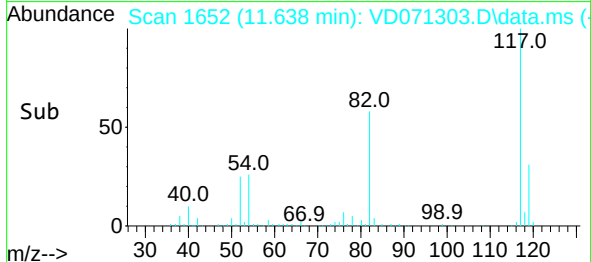
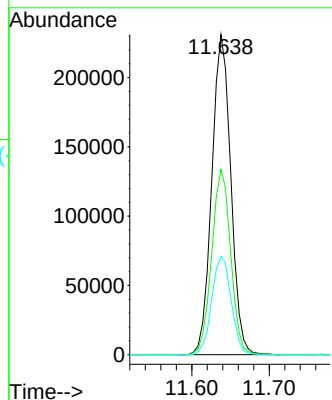
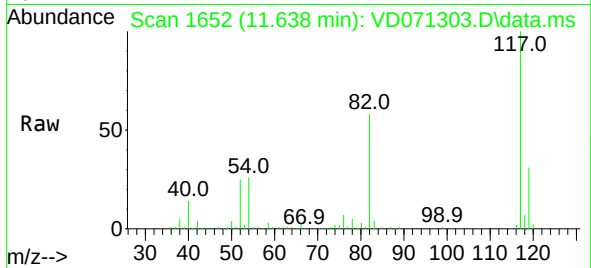




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

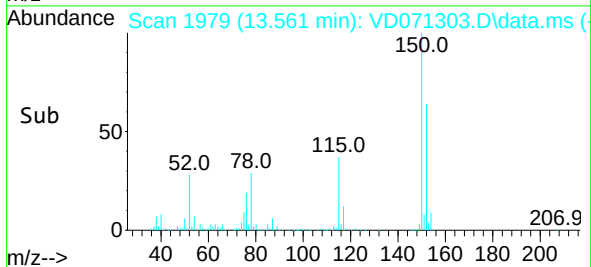
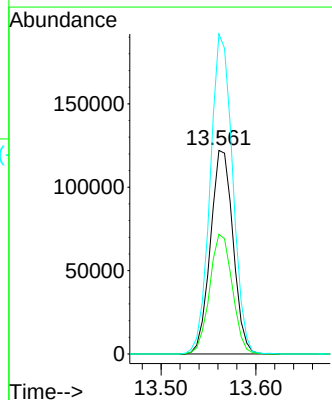
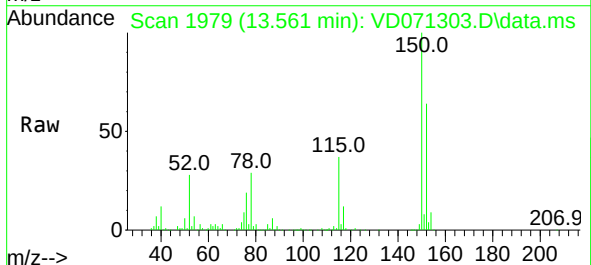
Instrument :
MSVOA_D
ClientSampleId :

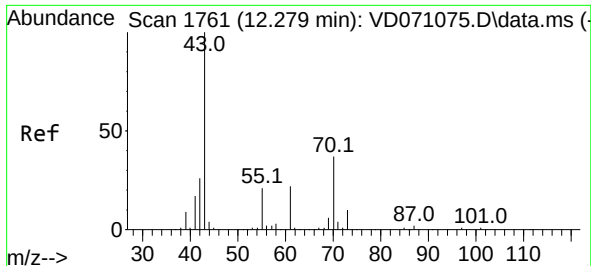
Tgt Ion:117 Resp: 393350
Ion Ratio Lower Upper
117 100
82 57.9 44.7 67.1
119 30.7 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

Tgt Ion:152 Resp: 202619
Ion Ratio Lower Upper
152 100
115 58.9 29.8 89.3
150 155.8 0.0 349.2

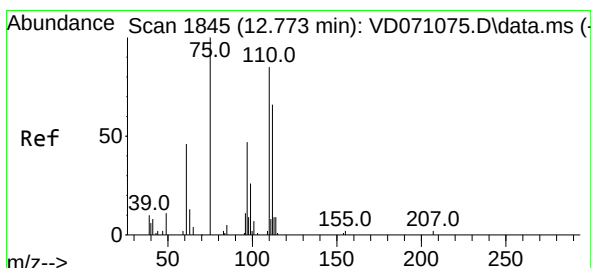
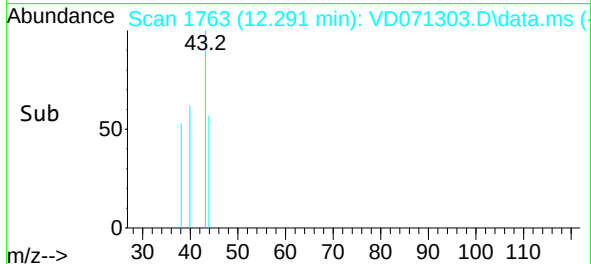
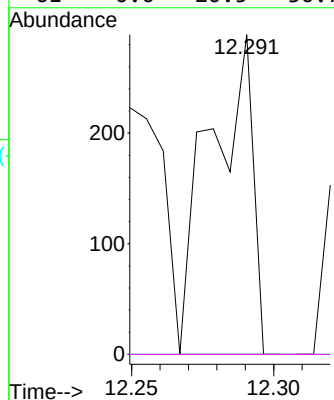
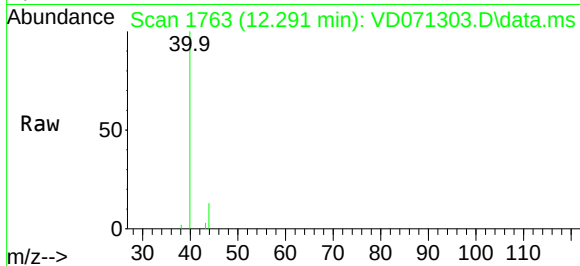




#74
N-amy1 acetate
Concen: 5.768 ug/l
RT: 12.291 min Scan# 11
Delta R.T. 0.012 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

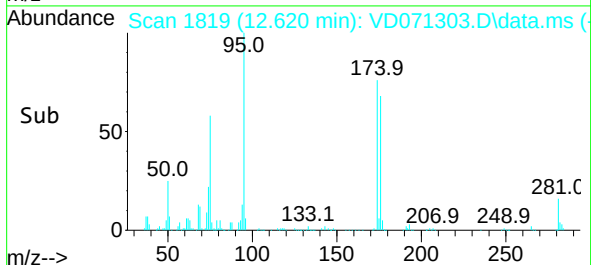
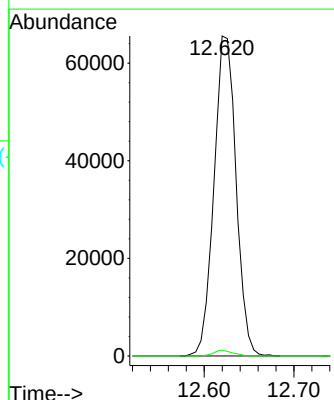
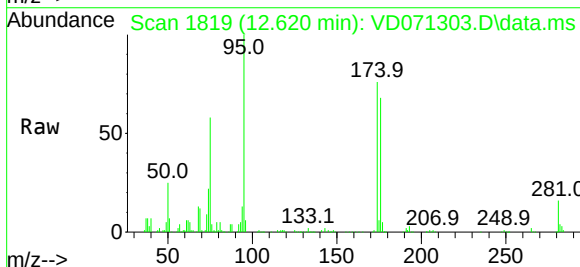
Instrument :
MSVOA_D
ClientSampleId :

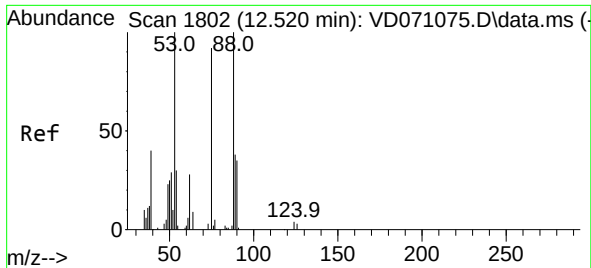
Tgt Ion: 43 Resp: 303
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 57.990 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071303.D
Acq: 13 Dec 2021 18:20

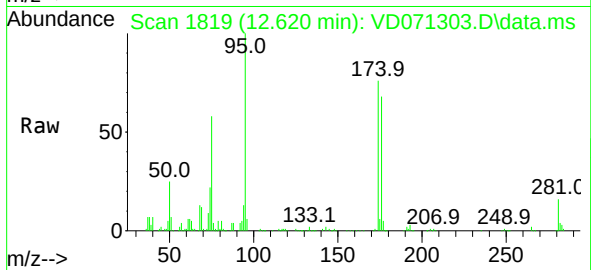
Tgt Ion: 75 Resp: 111948
Ion Ratio Lower Upper
75 100
77 1.6 158.4 475.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 125.746 ug/l
 RT: 12.620 min Scan# 11
 Delta R.T. 0.100 min
 Lab File: VD071303.D
 Acq: 13 Dec 2021 18:20

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 111948
 Ion Ratio Lower Upper
 75 100
 53 0.0 62.6 94.0#
 89 0.2 34.5 51.7#

