

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121621\
 Data File : VD071370.D
 Acq On : 16 Dec 2021 16:36
 Operator : VA/SY
 Sample : M5111-03
 Misc : 5.95G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 23:50:23 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)

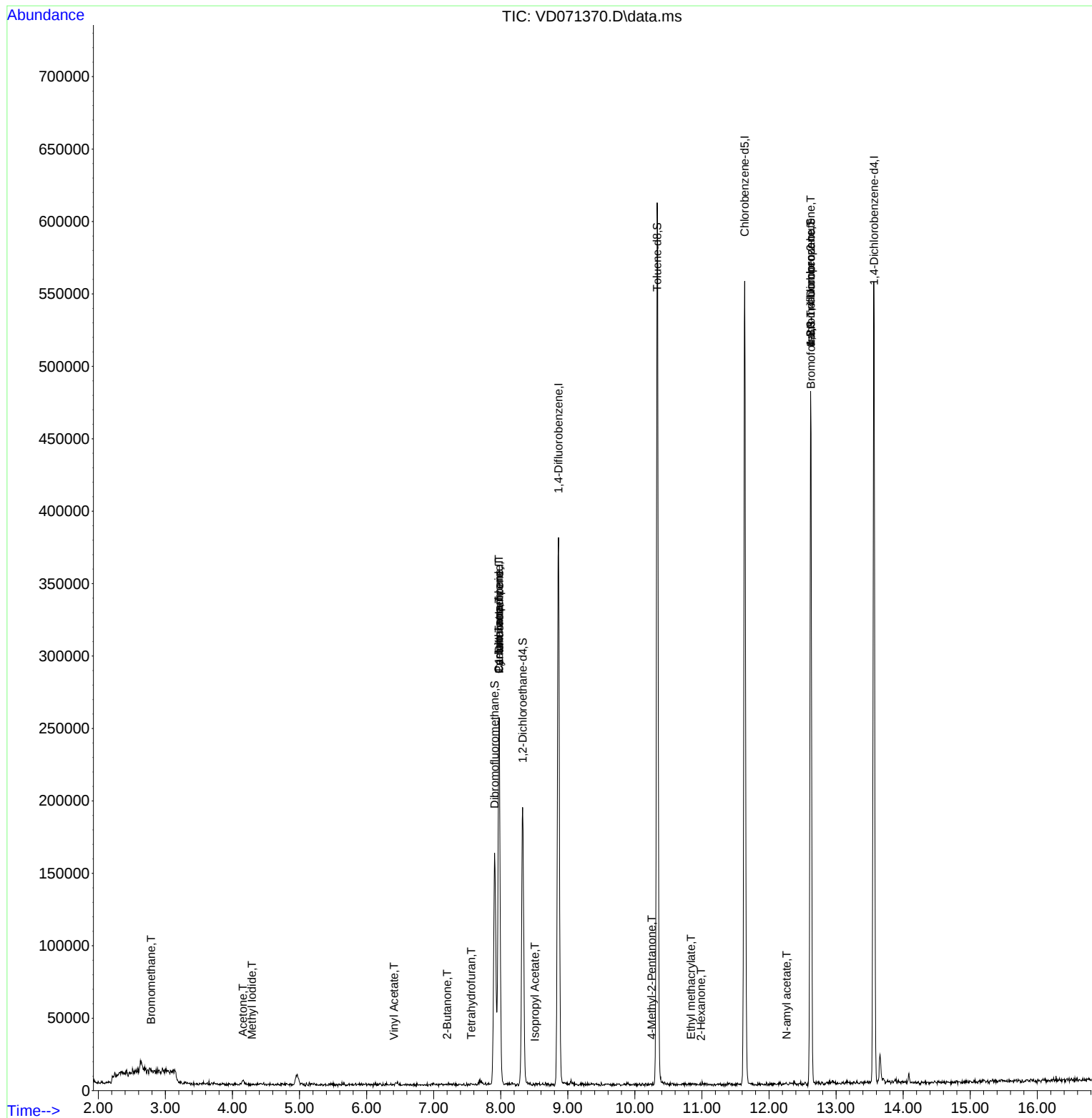
Internal Standards						
1) Pentafluorobenzene	7.979	168	169808	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	304991	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	295645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	135327	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	148749	74.654	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 149.300%	
35) Dibromofluoromethane	7.909	113	111435	57.377	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.760%	
50) Toluene-d8	10.332	98	393609	53.256	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 106.520%	
62) 4-Bromofluorobenzene	12.620	95	136841	53.413	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 106.820%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.785	94	1688	1.096	ug/l #	45
10) Methyl Iodide	4.291	142	152	4.630	ug/l #	67
11) Tert butyl alcohol	5.209	59	330	Below Cal	#	71
16) Acetone	4.156	43	5126	39.291	ug/l #	73
20) Methylene Chloride	4.956	84	4367	Below Cal		94
23) Vinyl Acetate	6.409	43	183	27.269	ug/l #	72
25) 2-Butanone	7.203	43	58	28.443	ug/l #	45
29) Tetrahydrofuran	7.562	42	364	1.150	ug/l #	34
31) Cyclohexane	7.973	56	5512	1.626	ug/l #	32
36) 1,1-Dichloropropene	7.973	75	16713	5.863	ug/l #	49
38) Carbon Tetrachloride	7.973	117	18400	6.548	ug/l #	16
41) Methacrylonitrile	7.579	41	60	Below Cal	#	12
43) Isopropyl Acetate	8.509	43	63	5.244	ug/l #	47
51) 4-Methyl-2-Pentanone	10.250	43	90	30.709	ug/l #	34
56) Ethyl methacrylate	10.838	69	56	5.995	ug/l #	1
59) 2-Hexanone	10.985	43	55	34.619	ug/l #	1
71) Bromoform	12.626	173	1754	1.690	ug/l #	1
74) N-amyl acetate	12.261	43	453	5.851	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	75922	58.885	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	75922	127.597	ug/l #	19

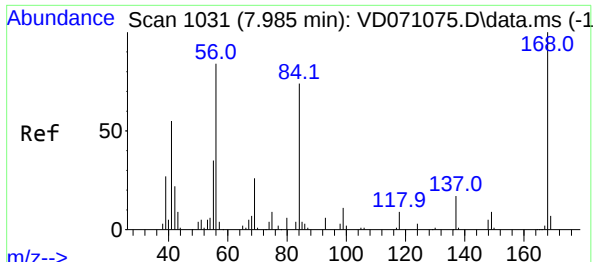
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 16 23:50:23 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

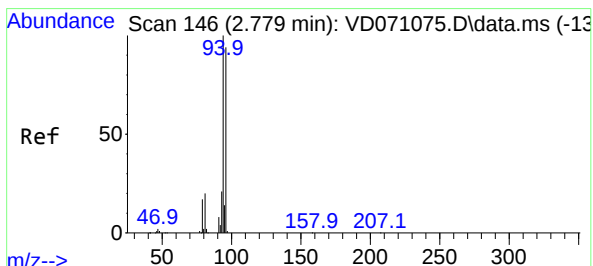
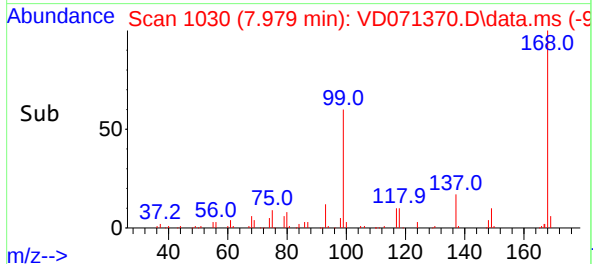
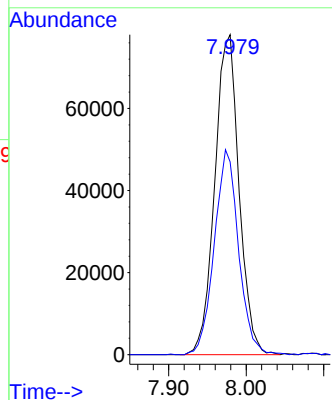
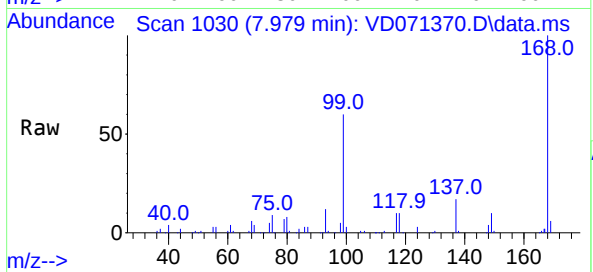




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

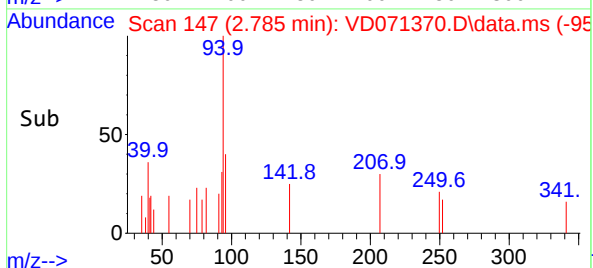
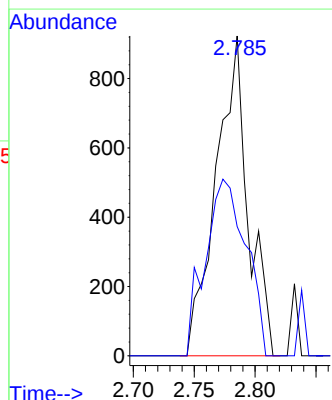
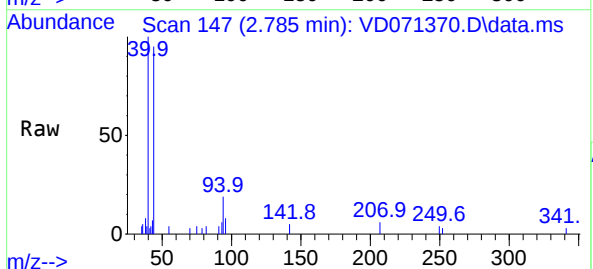
Instrument :
MSVOA_D
ClientSampleId :

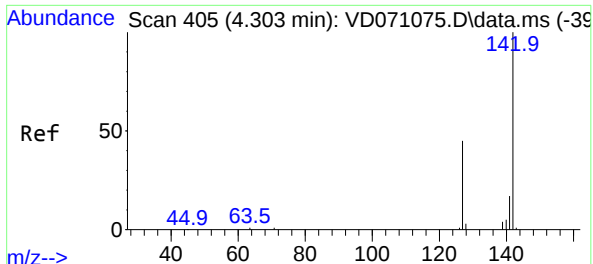
Tgt Ion:168 Resp: 169808
Ion Ratio Lower Upper
168 100
99 60.3 46.6 69.8



#5
Bromomethane
Concen: 1.096 ug/l
RT: 2.785 min Scan# 147
Delta R.T. 0.006 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Tgt Ion: 94 Resp: 1688
Ion Ratio Lower Upper
94 100
96 40.4 74.8 112.2#

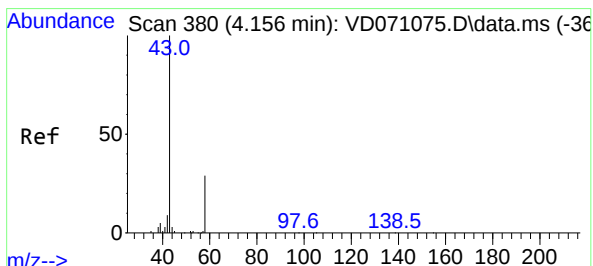
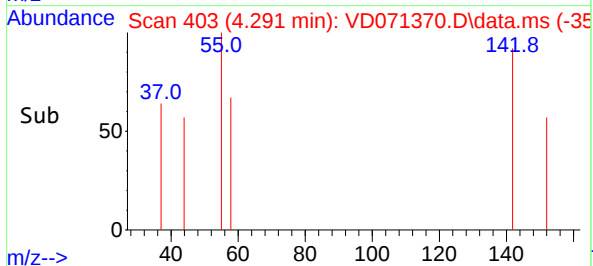
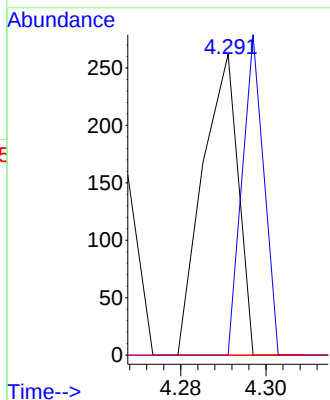
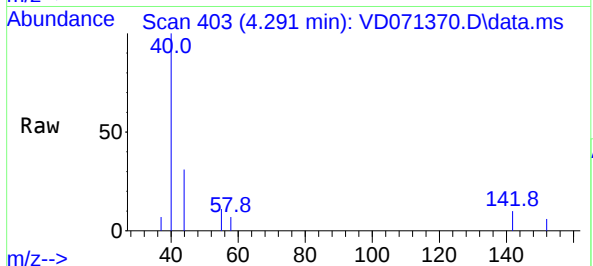




#10
Methyl Iodide
Concen: 4.630 ug/l
RT: 4.291 min Scan# 405
Delta R.T. -0.012 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

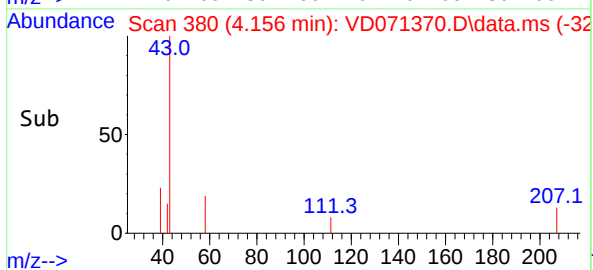
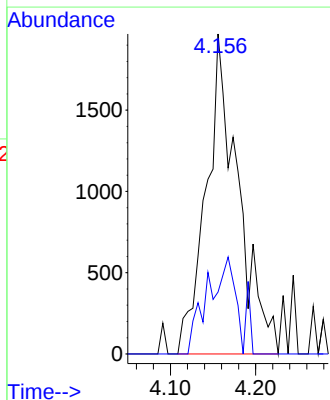
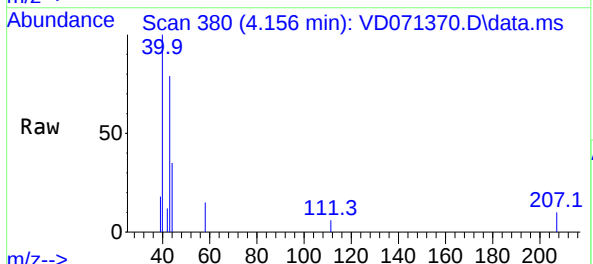
Instrument :
MSVOA_D
ClientSampleId :

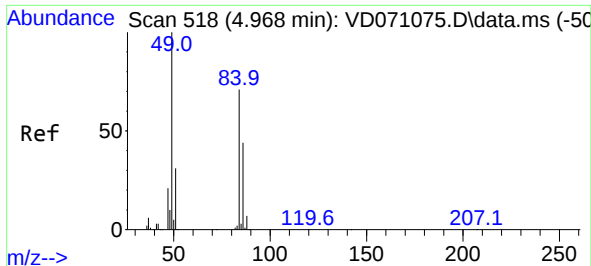
Tgt Ion:142 Resp: 152
Ion Ratio Lower Upper
142 100
127 64.5 35.0 52.4#
141 0.0 12.0 18.0#



#16
Acetone
Concen: 39.291 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

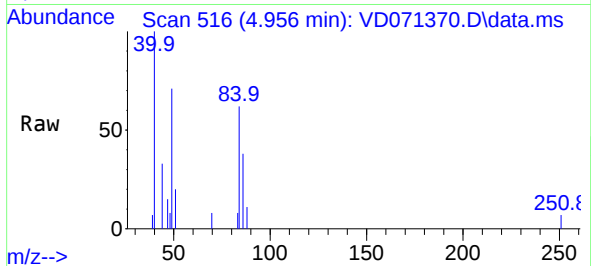
Tgt Ion: 43 Resp: 5126
Ion Ratio Lower Upper
43 100
58 19.3 27.8 41.8#





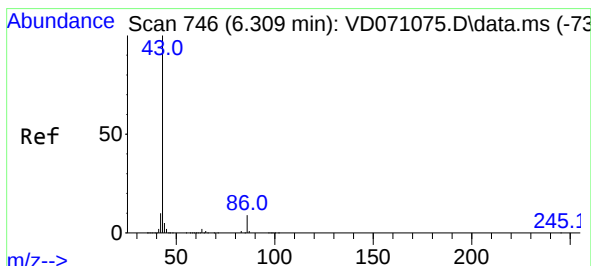
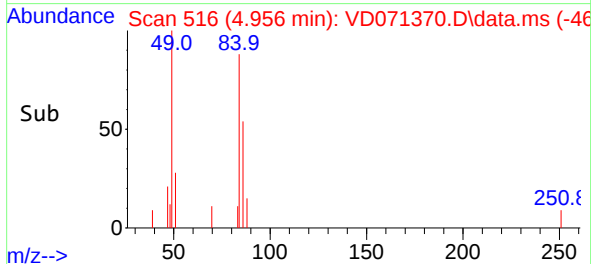
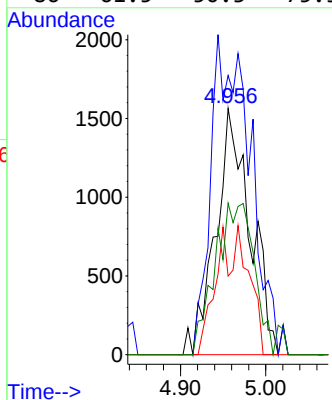
#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 518
Delta R.T. -0.012 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 4367

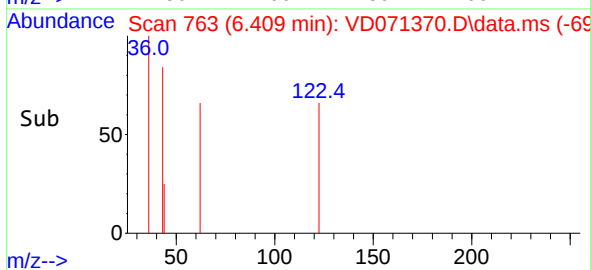
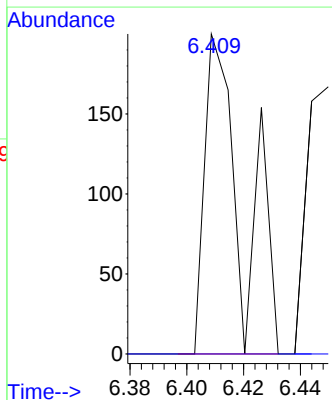
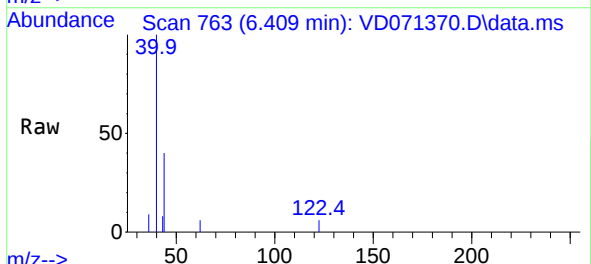
Ion	Ratio	Lower	Upper
84	100		
49	113.4	95.8	143.6
51	31.9	30.9	46.3
86	61.5	50.3	75.5

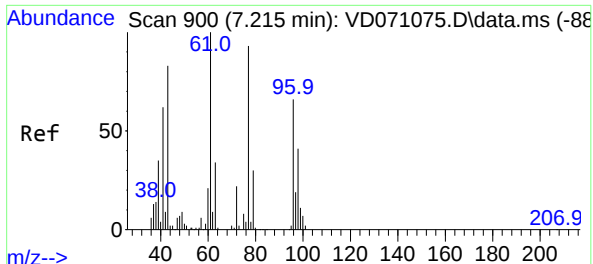


#23
Vinyl Acetate
Concen: 27.269 ug/l
RT: 6.409 min Scan# 763
Delta R.T. 0.100 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Tgt Ion: 43 Resp: 183

Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.4#





#25

2-Butanone

Concen: 28.443 ug/l

RT: 7.203 min Scan# 898

Delta R.T. -0.012 min

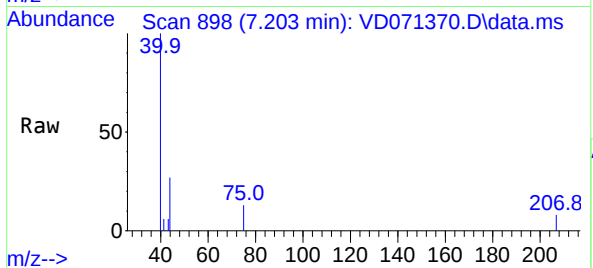
Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

Instrument :

MSVOA_D

ClientSampleId :

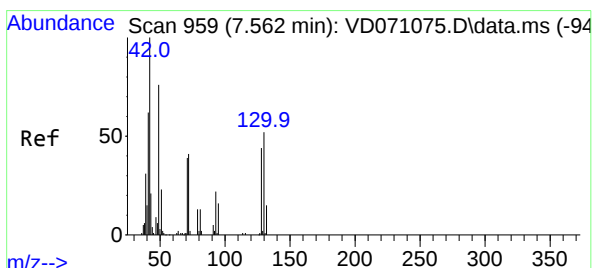
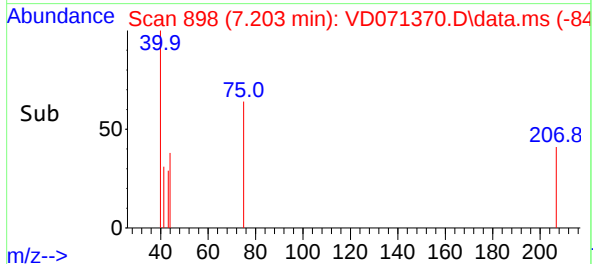
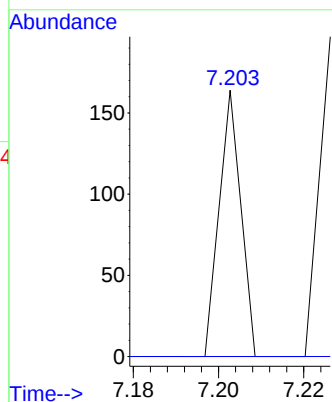


Tgt Ion: 43 Resp: 58

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#29

Tetrahydrofuran

Concen: 1.150 ug/l

RT: 7.562 min Scan# 959

Delta R.T. -0.000 min

Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

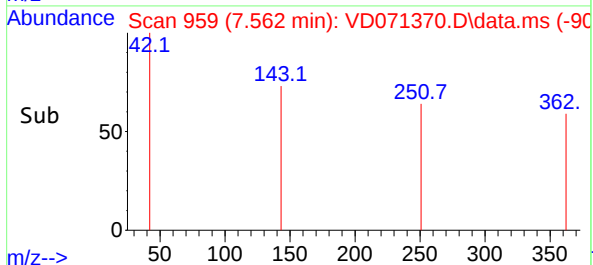
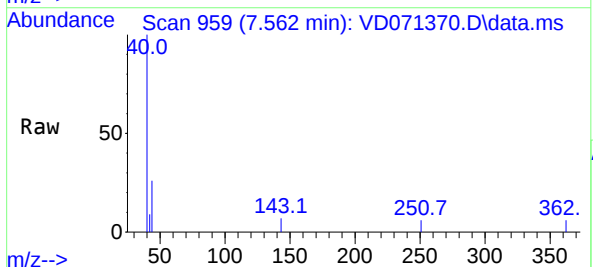
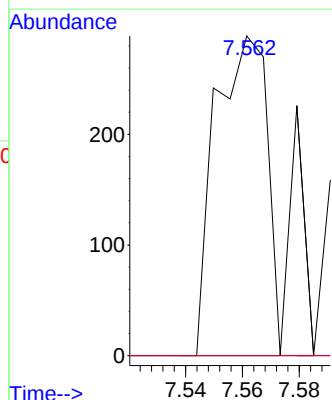
Tgt Ion: 42 Resp: 364

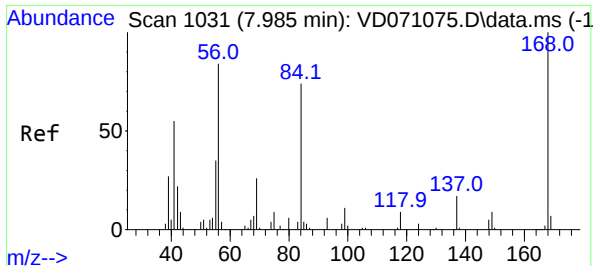
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#





#31

Cyclohexane

Concen: 1.626 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

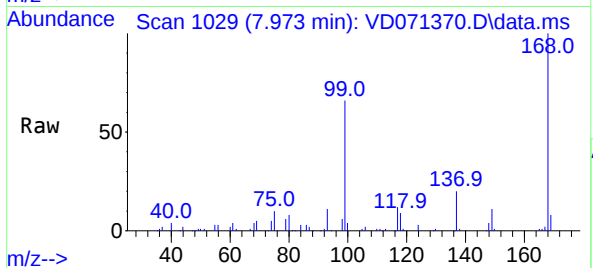
Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

Instrument :

MSVOA_D

ClientSampleId :



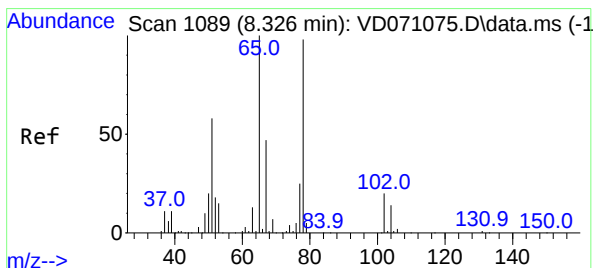
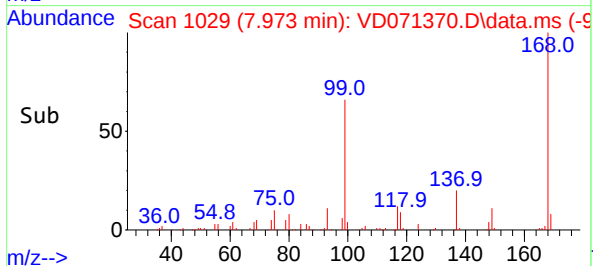
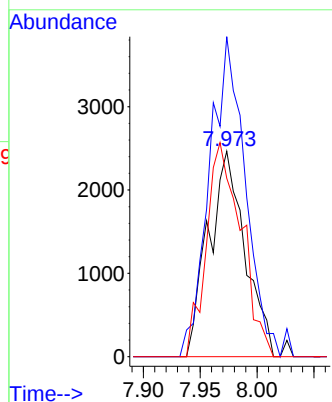
Tgt Ion: 56 Resp: 5512

Ion Ratio Lower Upper

56 100

69 155.8 25.9 38.9#

84 86.9 64.3 96.5



#33

1,2-Dichloroethane-d4

Concen: 74.654 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071370.D

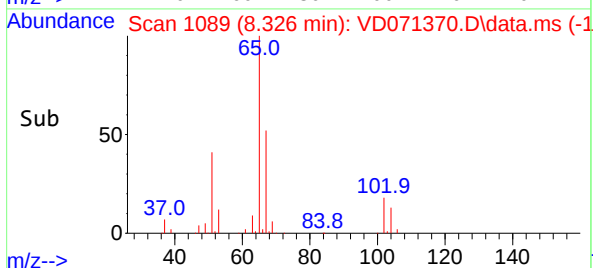
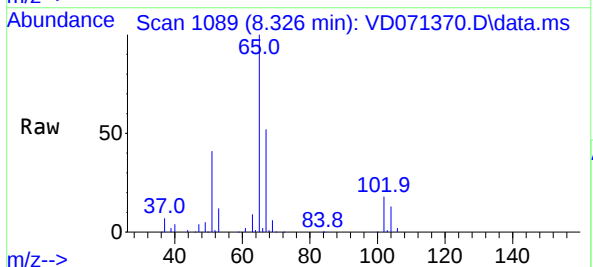
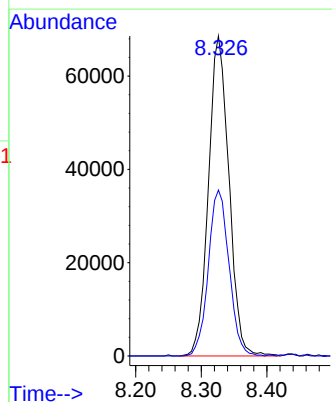
Acq: 16 Dec 2021 16:36

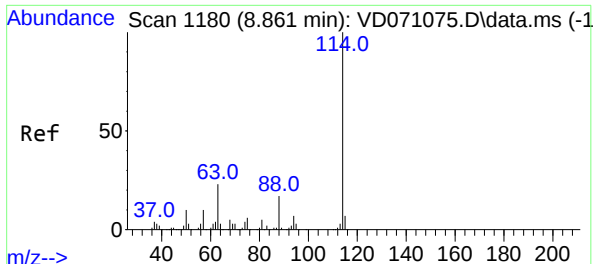
Tgt Ion: 65 Resp: 148749

Ion Ratio Lower Upper

65 100

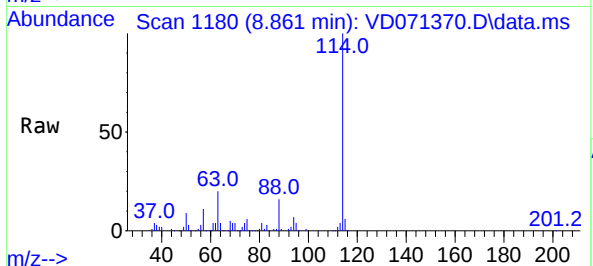
67 52.4 0.0 112.2



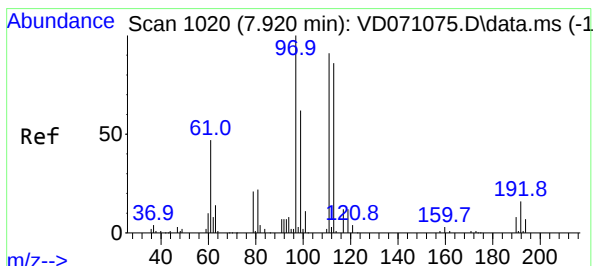
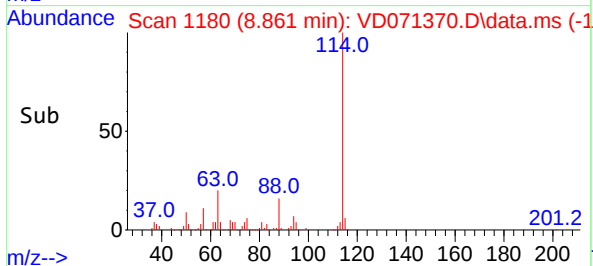
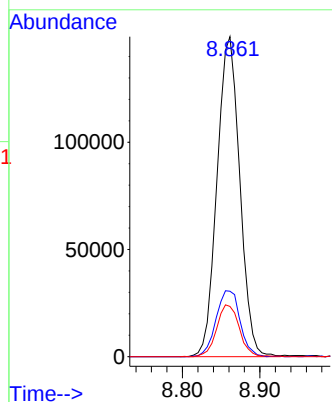


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Instrument :
MSVOA_D
ClientSampleId :

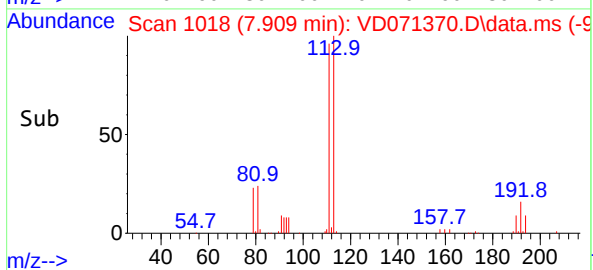
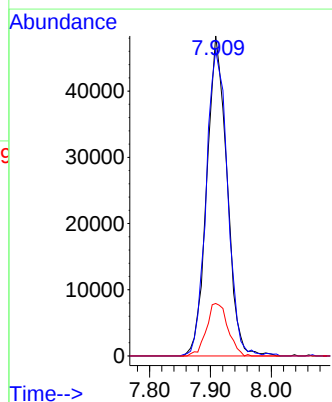
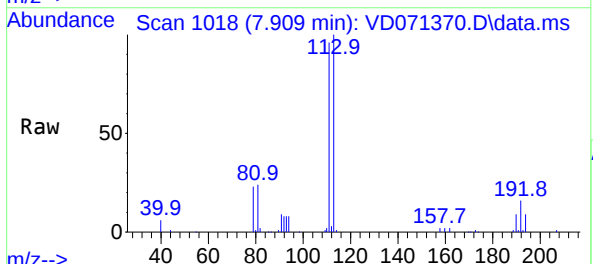


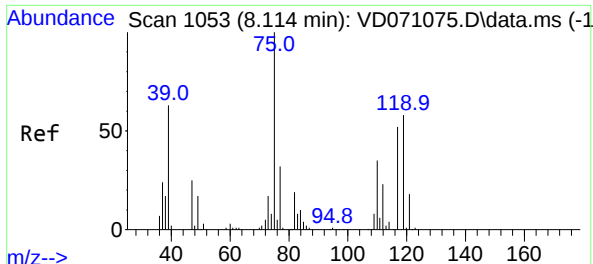
Tgt Ion:114 Resp: 304991
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.8
88 15.7 0.0 32.8



#35
Dibromofluoromethane
Concen: 57.377 ug/l
RT: 7.909 min Scan# 1018
Delta R.T. -0.011 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Tgt Ion:113 Resp: 111435
Ion Ratio Lower Upper
113 100
111 100.8 82.0 123.0
192 17.3 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.863 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071370.D

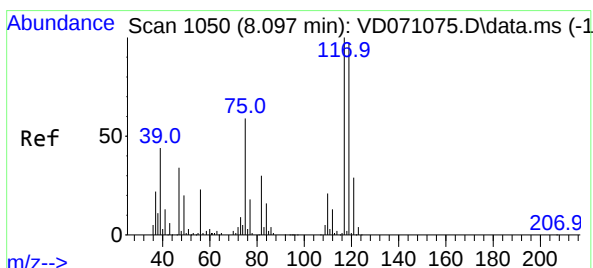
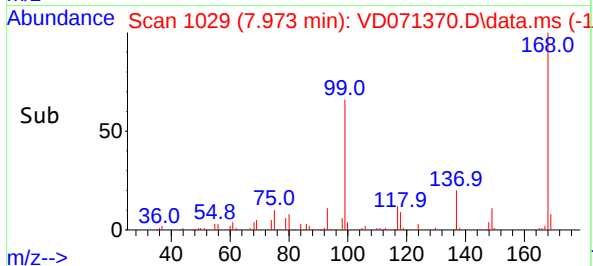
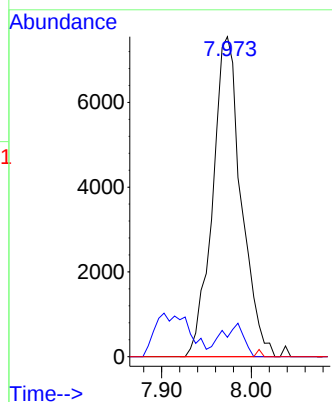
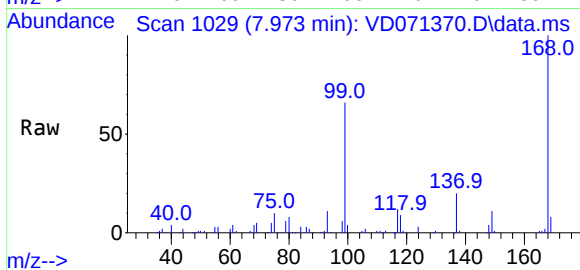
Acq: 16 Dec 2021 16:36

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	75	Resp:	16713
Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.4#
77	0.0	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 6.548 ug/l

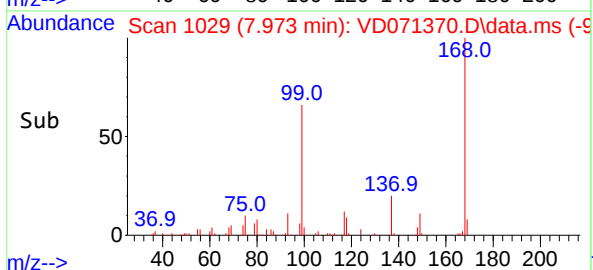
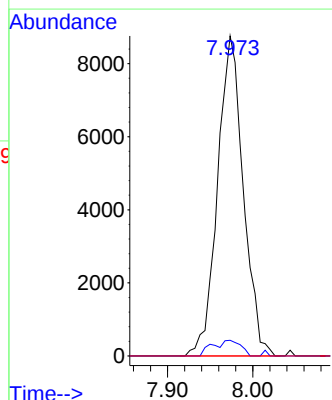
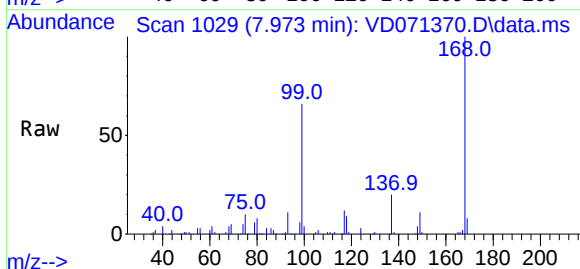
RT: 7.973 min Scan# 1029

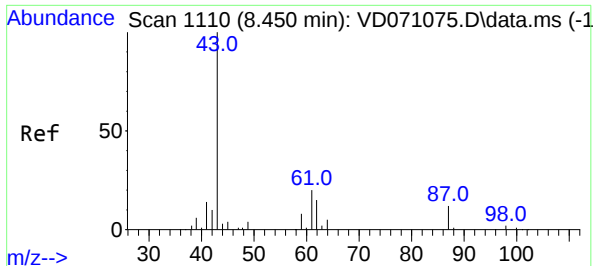
Delta R.T. -0.124 min

Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

Tgt Ion:	117	Resp:	18400
Ion	Ratio	Lower	Upper
117	100		
119	4.9	75.8	113.6#
121	0.0	23.6	35.4#

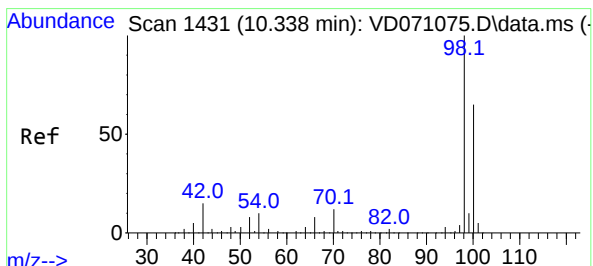
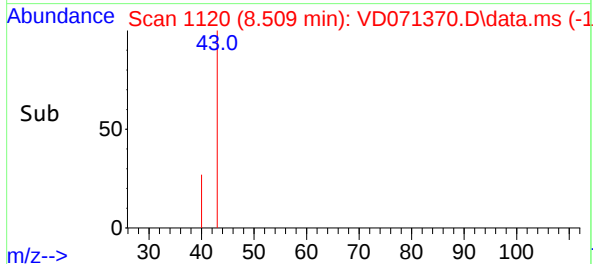
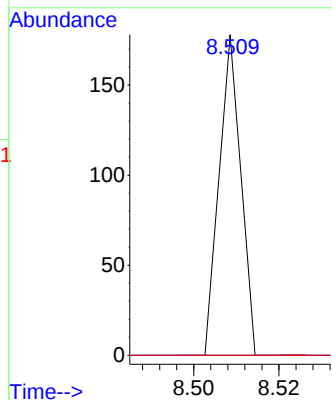
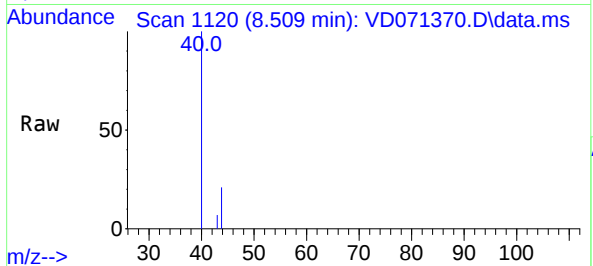




#43
Isopropyl Acetate
Concen: 5.244 ug/l
RT: 8.509 min Scan# 1110
Delta R.T. 0.059 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

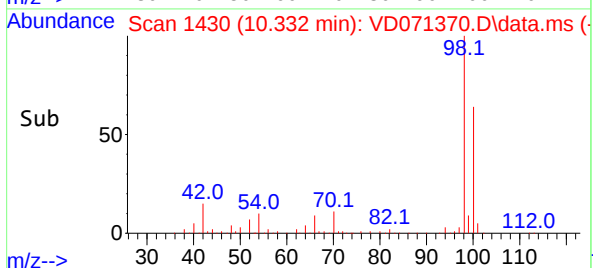
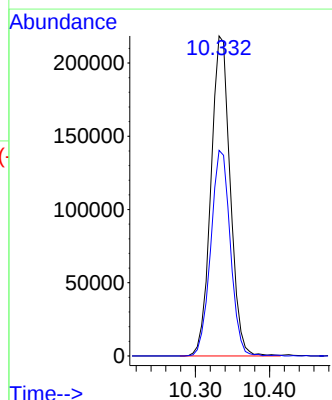
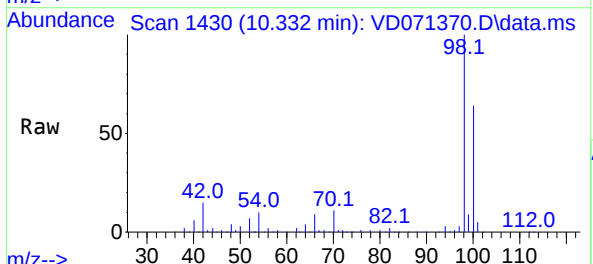
Instrument :
MSVOA_D
ClientSampleId :

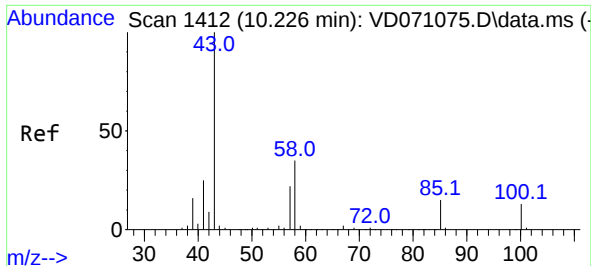
Tgt Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#50
Toluene-d8
Concen: 53.256 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Tgt Ion: 98 Resp: 393609
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 30.709 ug/l

RT: 10.250 min Scan# 1412

Delta R.T. 0.024 min

Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

Instrument :

MSVOA_D

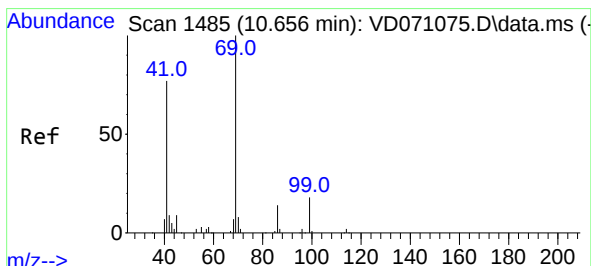
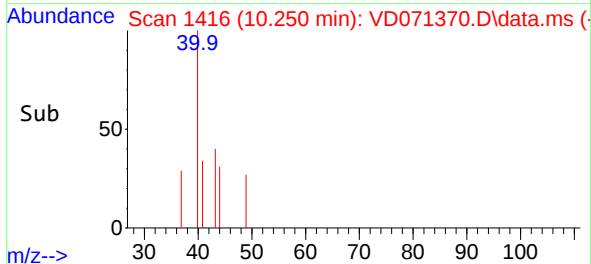
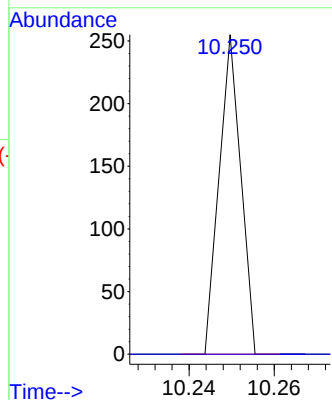
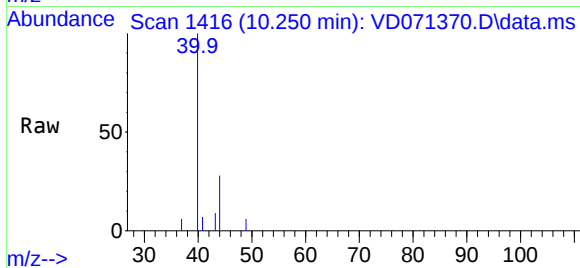
ClientSampleId :

Tgt Ion: 43 Resp: 90

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#56

Ethyl methacrylate

Concen: 5.995 ug/l

RT: 10.838 min Scan# 1516

Delta R.T. 0.182 min

Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

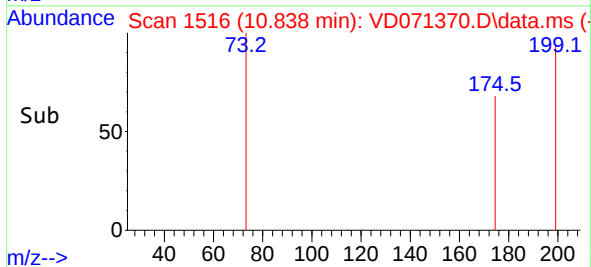
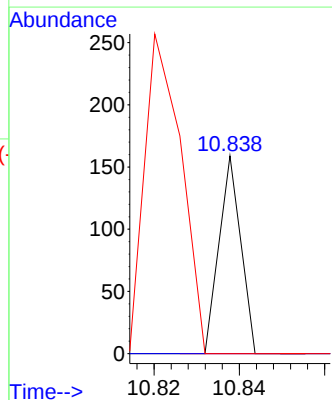
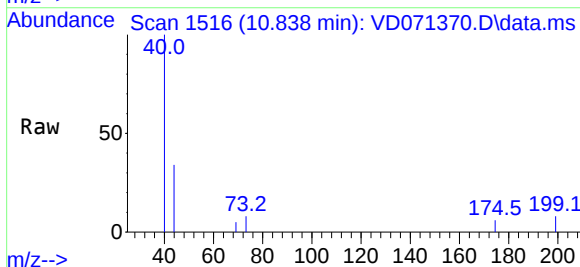
Tgt Ion: 69 Resp: 56

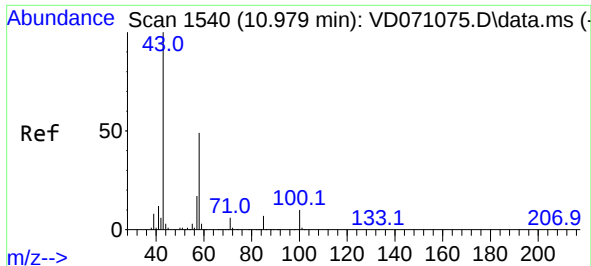
Ion Ratio Lower Upper

69 100

41 0.0 50.2 75.2#

39 271.4 19.8 29.8#





#59

2-Hexanone

Concen: 34.619 ug/l

RT: 10.985 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

Instrument :

MSVOA_D

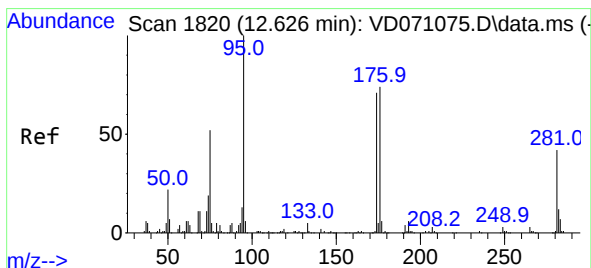
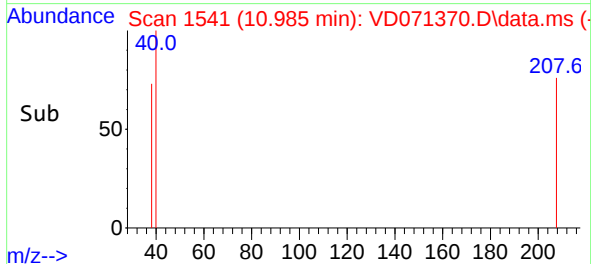
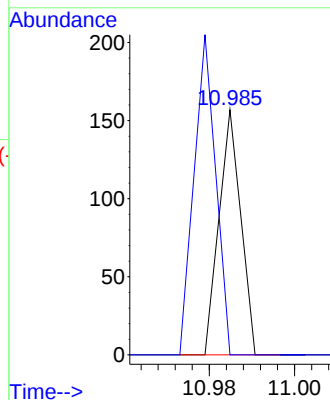
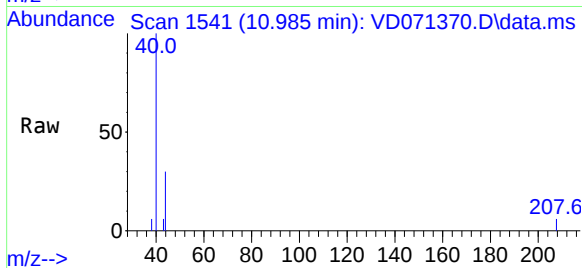
ClientSampleId :

Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

58 130.9 28.7 86.1#



#62

4-Bromofluorobenzene

Concen: 53.413 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.006 min

Lab File: VD071370.D

Acq: 16 Dec 2021 16:36

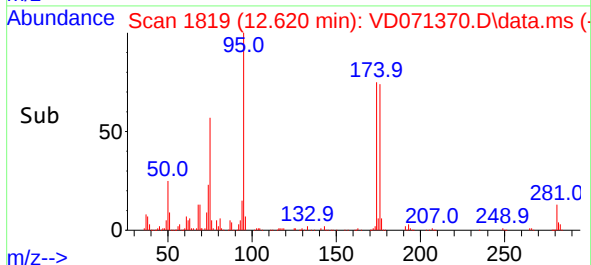
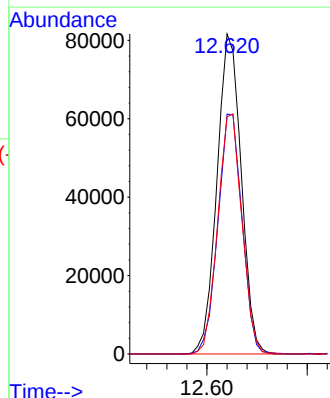
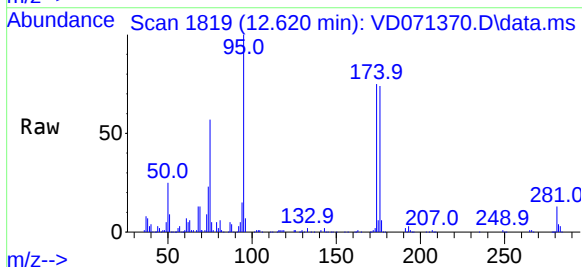
Tgt Ion: 95 Resp: 136841

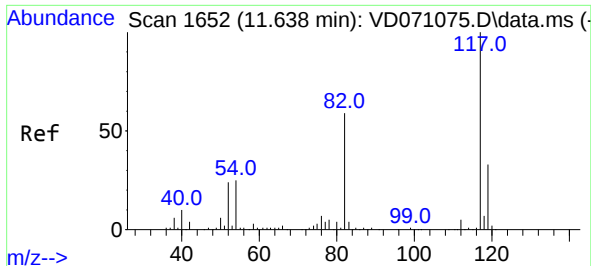
Ion Ratio Lower Upper

95 100

174 74.7 0.0 159.4

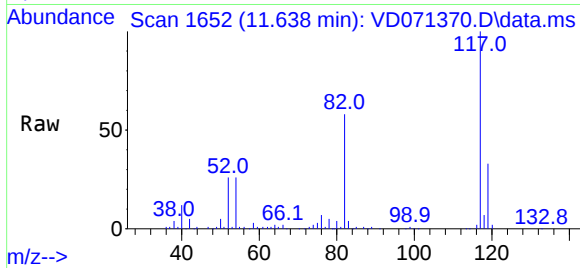
176 74.7 0.0 154.0



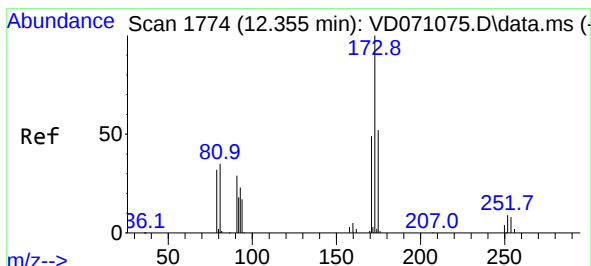
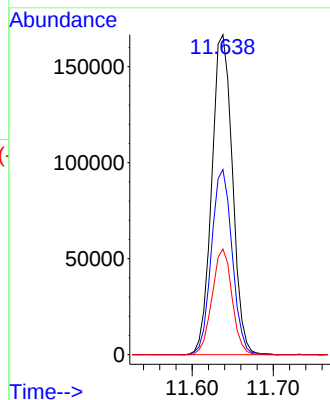
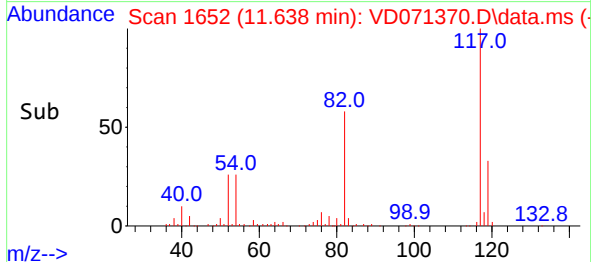


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

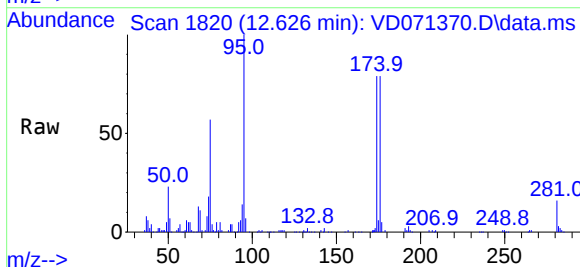
Instrument :
MSVOA_D
ClientSampleId :



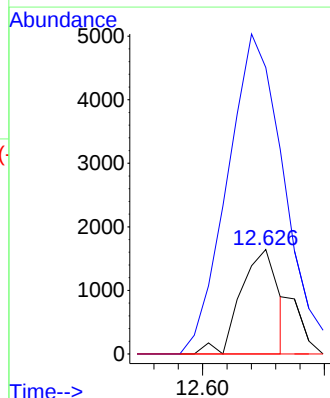
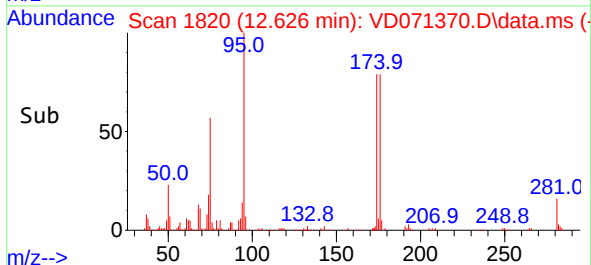
Tgt Ion:117 Resp: 295645
Ion Ratio Lower Upper
117 100
82 57.8 44.7 67.1
119 33.0 26.2 39.4

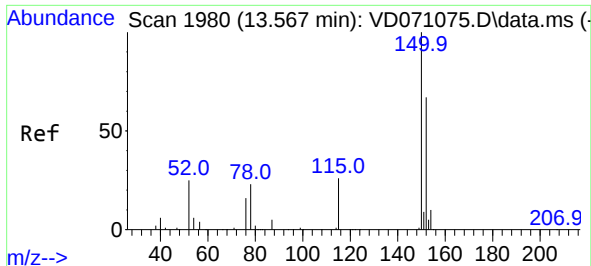


#71
Bromoform
Concen: 1.690 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36



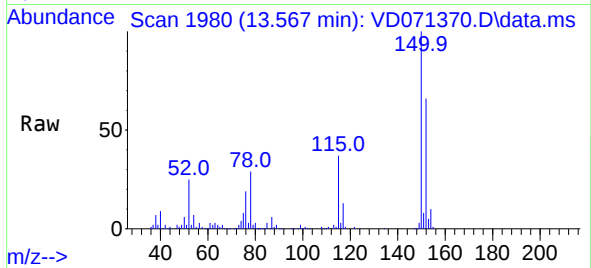
Tgt Ion:173 Resp: 1754
Ion Ratio Lower Upper
173 100
175 407.2 24.1 72.2#
254 0.0 0.1 0.1#



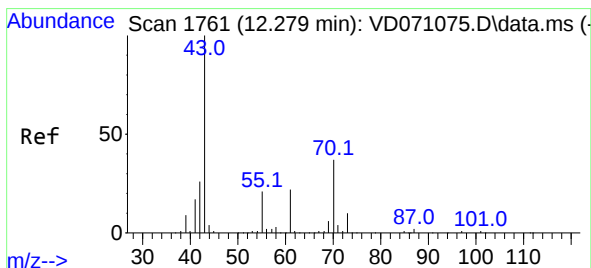
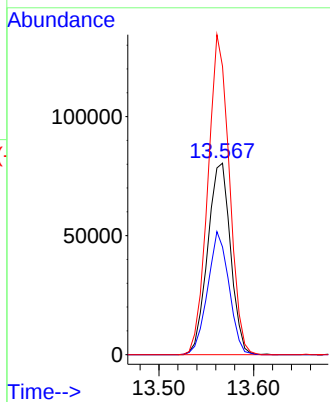
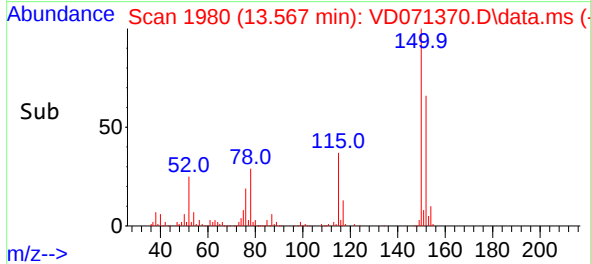


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

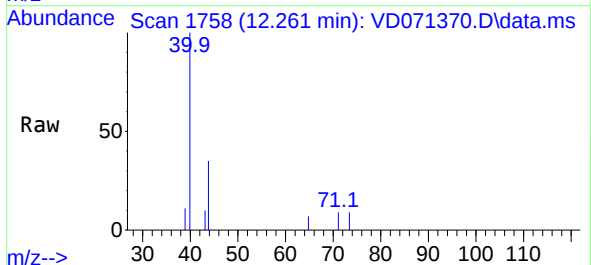
Instrument :
MSVOA_D
ClientSampleId :



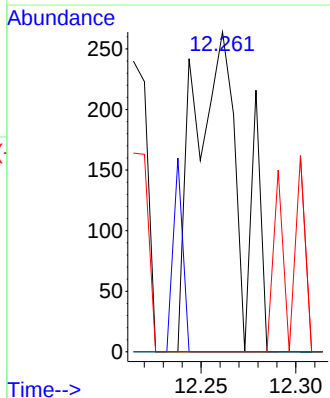
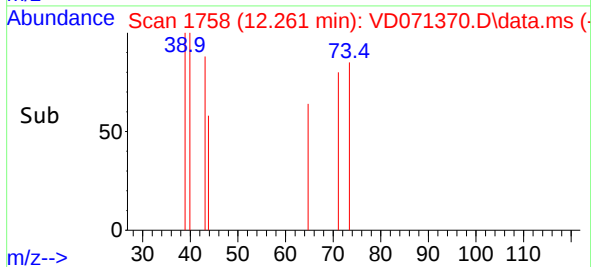
Tgt Ion:152 Resp: 135327
Ion Ratio Lower Upper
152 100
115 60.0 29.8 89.3
150 156.5 0.0 349.2

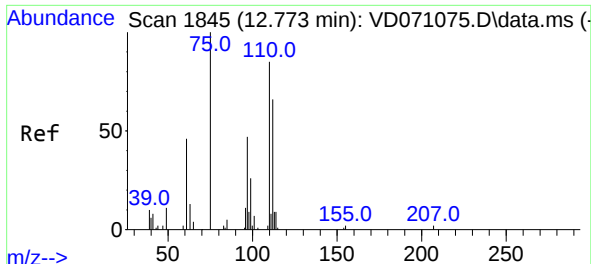


#74
N-ethyl acetate
Concen: 5.851 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36



Tgt Ion: 43 Resp: 453
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#

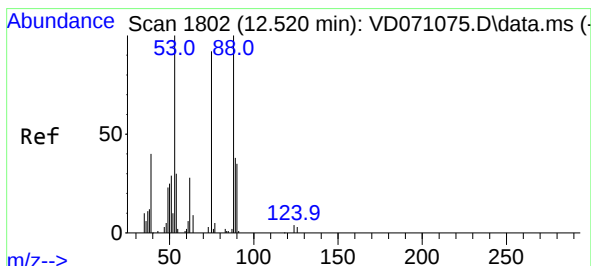
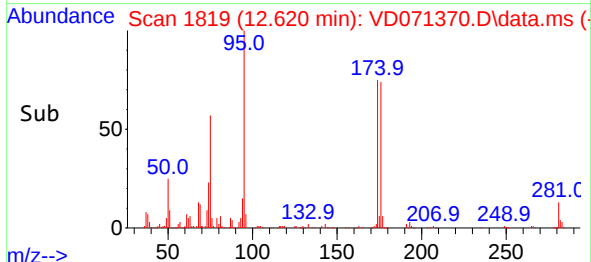
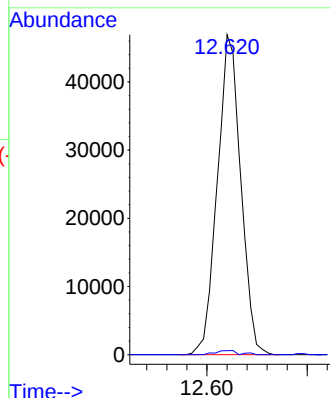
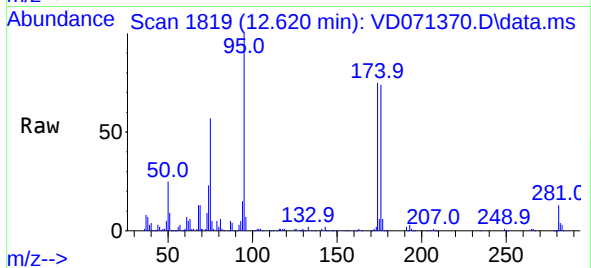




#76
1,2,3-Trichloropropane
Concen: 58.885 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 75922
Ion Ratio Lower Upper
75 100
77 1.3 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 127.597 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071370.D
Acq: 16 Dec 2021 16:36

Tgt Ion: 75 Resp: 75922
Ion Ratio Lower Upper
75 100
53 0.3 62.6 94.0#
89 0.5 34.5 51.7#

