

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120921\
 Data File : VD071224.D
 Acq On : 09 Dec 2021 13:21
 Operator : VA/SY
 Sample : M4964-01RE
 Misc : 7.08G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 06:43:49 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)

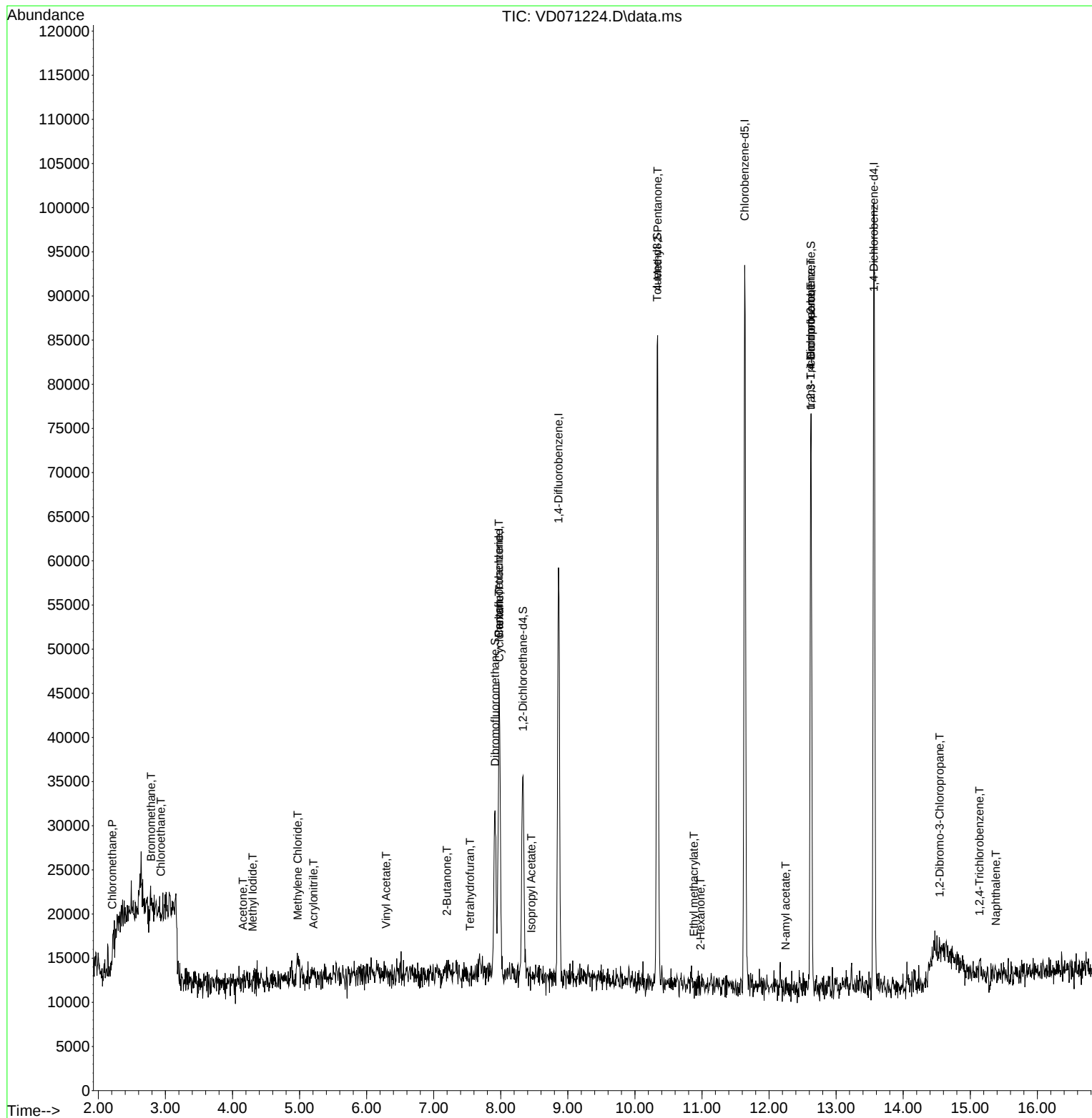
Internal Standards						
1) Pentafluorobenzene	7.973	168	21135	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	36156	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	42281	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	21580	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	18070	72.864	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 145.720%			
35) Dibromofluoromethane	7.914	113	12722	55.256	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.520%			
50) Toluene-d8	10.332	98	47891	54.659	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 109.320%			
62) 4-Bromofluorobenzene	12.626	95	20577	67.751	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 135.500%			
Target Compounds						Qvalue
3) Chloromethane	2.209	50	662	2.776	ug/l #	42
5) Bromomethane	2.785	94	748	3.901	ug/l #	65
6) Chloroethane	2.932	64	339	1.853	ug/l #	39
10) Methyl Iodide	4.303	142	122	5.009	ug/l #	40
11) Tert butyl alcohol	5.185	59	62	Below Cal	#	71
15) Acrylonitrile	5.208	53	55	1.158	ug/l #	19
16) Acetone	4.156	43	1286	47.919	ug/l #	40
20) Methylene Chloride	4.973	84	1565	2.267	ug/l #	93
23) Vinyl Acetate	6.291	43	77	27.388	ug/l #	72
25) 2-Butanone	7.197	43	163	30.259	ug/l #	45
29) Tetrahydrofuran	7.544	42	55	1.397	ug/l #	34
31) Cyclohexane	7.979	56	679	1.610	ug/l #	48
38) Carbon Tetrachloride	7.973	117	2676	8.033	ug/l #	12
41) Methacrylonitrile	7.508	41	90	Below Cal	#	13
43) Isopropyl Acetate	8.455	43	114	5.541	ug/l #	47
51) 4-Methyl-2-Pentanone	10.338	43	440	32.997	ug/l	87
56) Ethyl methacrylate	10.879	69	61	6.197	ug/l #	25
59) 2-Hexanone	10.979	43	326	36.839	ug/l #	22
74) N-amyl acetate	12.249	43	66	5.838	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	12214	59.405	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	12214	128.674	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.543	75	54	1.289	ug/l #	4
93) 1,2,4-Trichlorobenzene	15.137	180	444	1.242	ug/l #	44
95) Naphthalene	15.384	128	1132	1.797	ug/l #	76

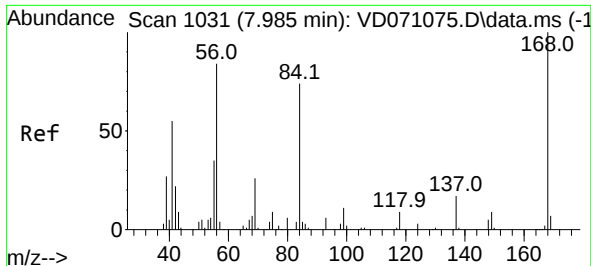
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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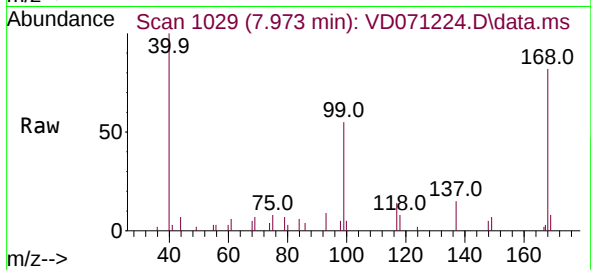
Quant Time: Dec 10 06:43:49 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
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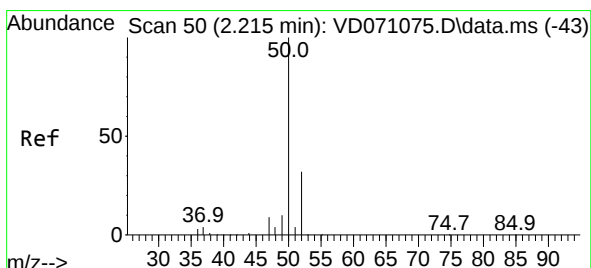
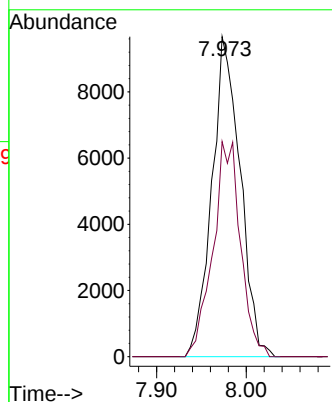
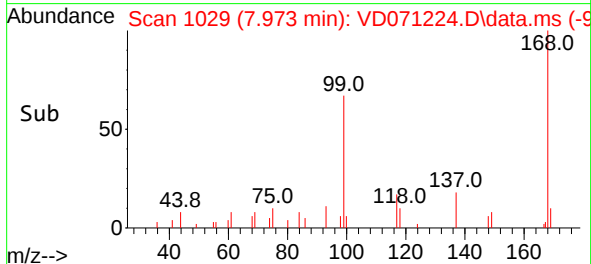


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.012 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Instrument :
MSVOA_D
ClientSampleId :

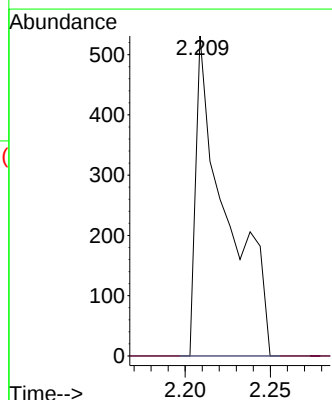
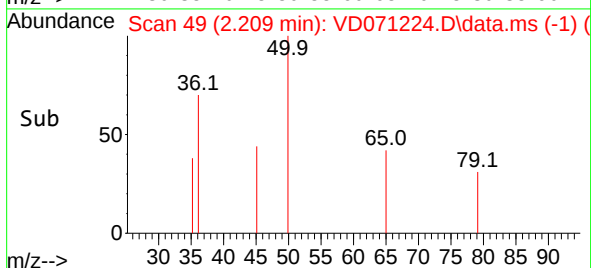
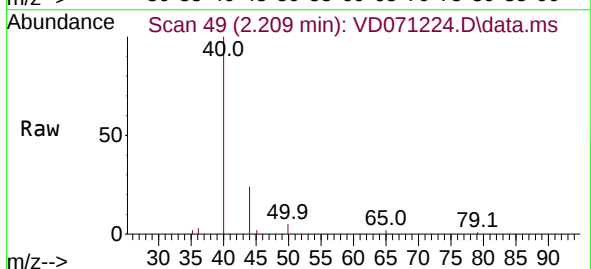


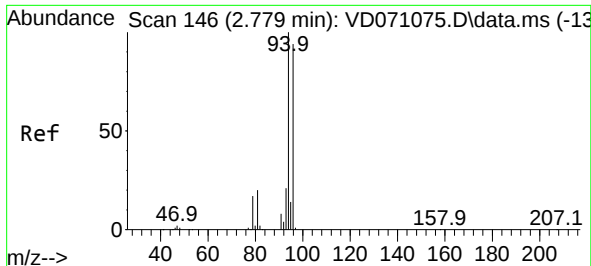
Tgt Ion:168 Resp: 21135
Ion Ratio Lower Upper
168 100
99 67.2 46.6 69.8



#3
Chloromethane
Concen: 2.776 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

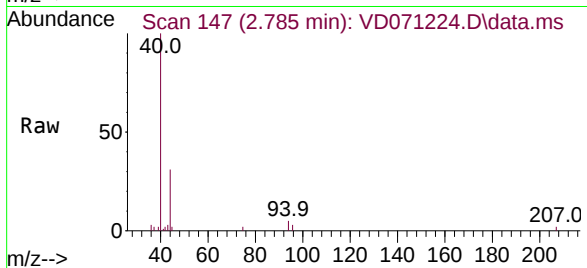
Tgt Ion: 50 Resp: 662
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



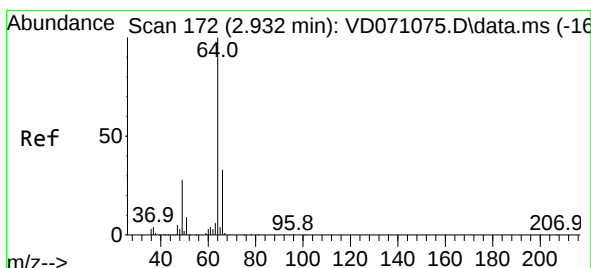
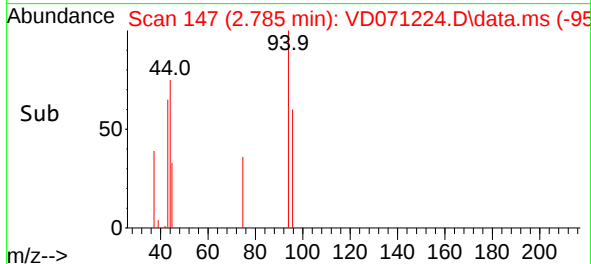
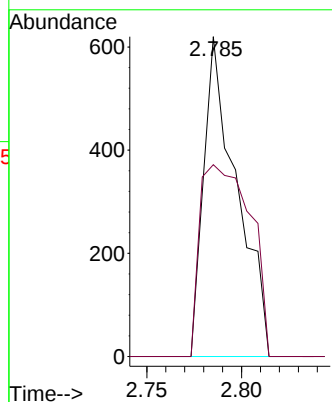


#5
Bromomethane
Concen: 3.901 ug/l
RT: 2.785 min Scan# 146
Delta R.T. 0.006 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Instrument :
MSVOA_D
ClientSampleId :

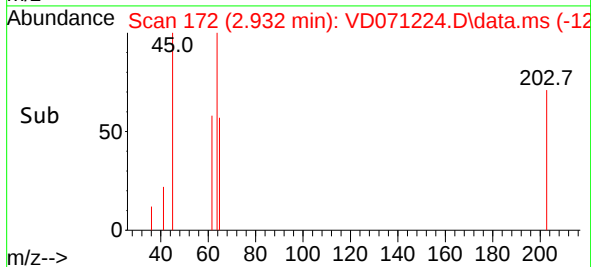
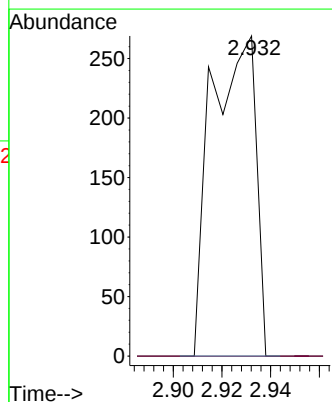
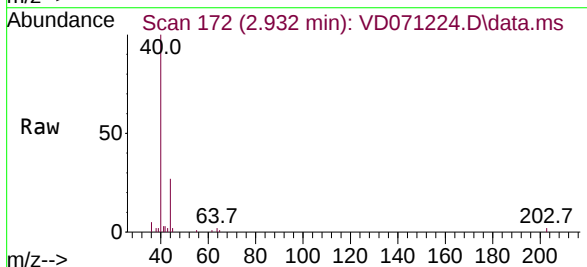


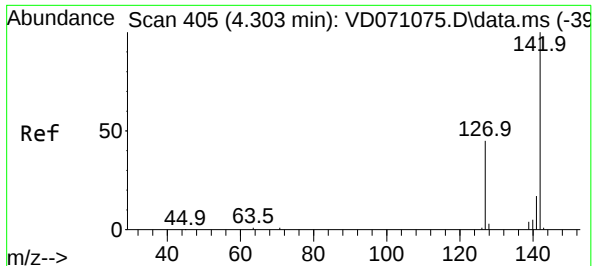
Tgt Ion: 94 Resp: 748
Ion Ratio Lower Upper
94 100
96 60.0 74.8 112.2#



#6
Chloroethane
Concen: 1.853 ug/l
RT: 2.932 min Scan# 172
Delta R.T. 0.000 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

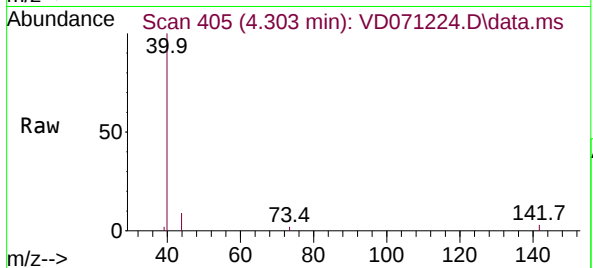
Tgt Ion: 64 Resp: 339
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#





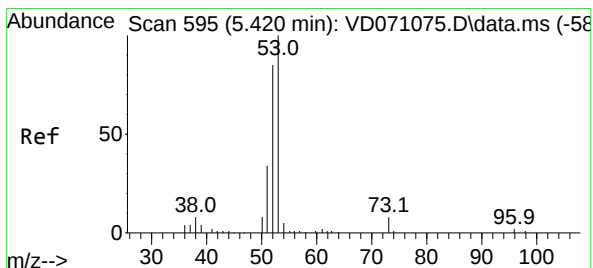
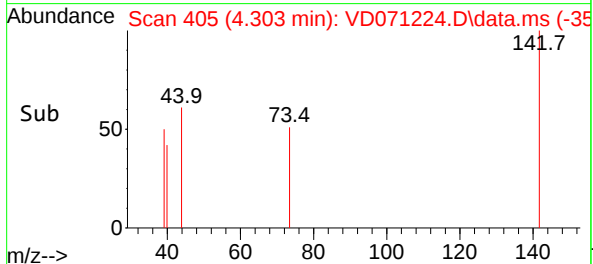
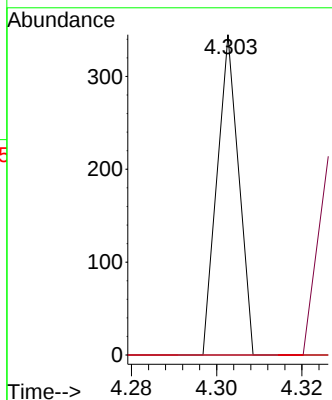
#10
Methyl Iodide
Concen: 5.009 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:142 Resp: 122

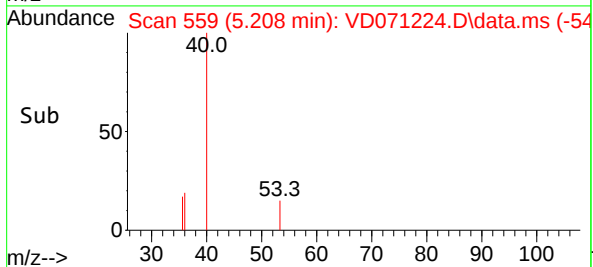
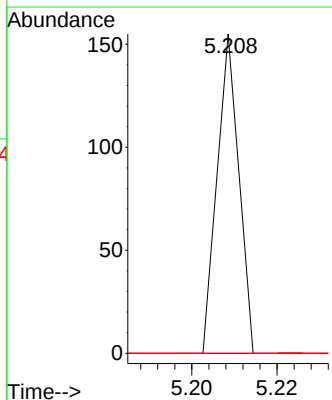
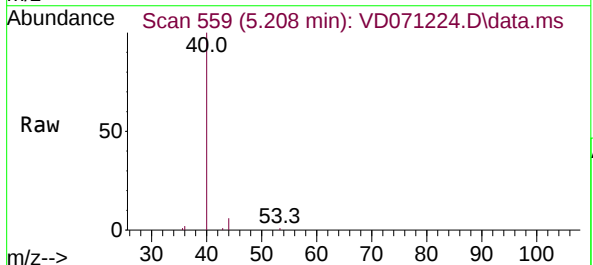
Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.0	52.4#
141	0.0	12.0	18.0#

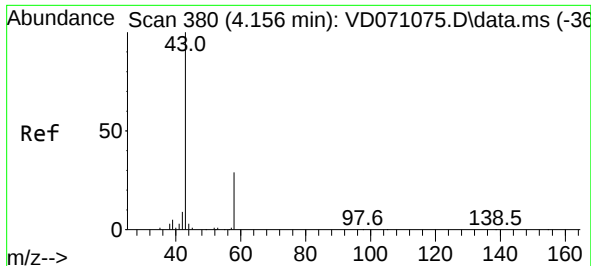


#15
Acrylonitrile
Concen: 1.158 ug/l
RT: 5.208 min Scan# 559
Delta R.T. -0.212 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Tgt Ion: 53 Resp: 55

Ion	Ratio	Lower	Upper
53	100		
52	0.0	63.8	95.8#
51	0.0	28.5	42.7#

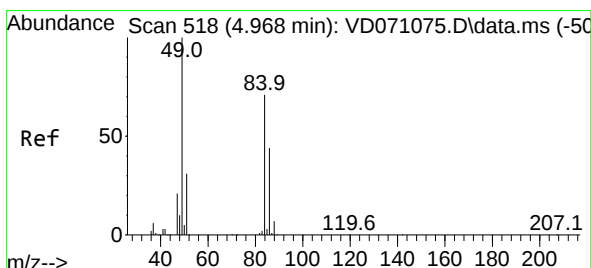
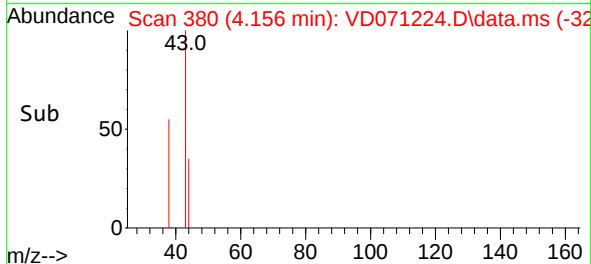
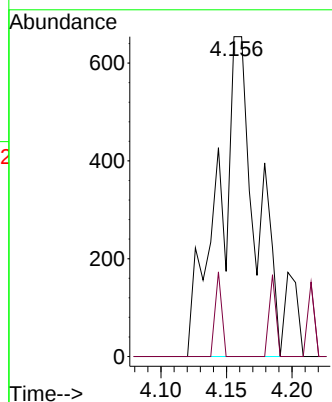
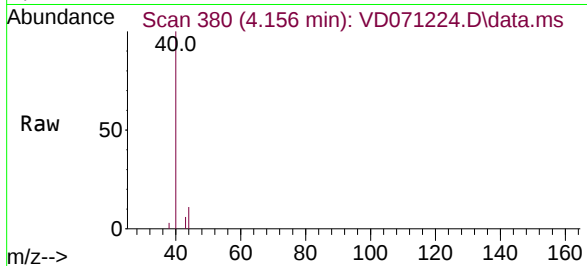




#16
Acetone
Concen: 47.919 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

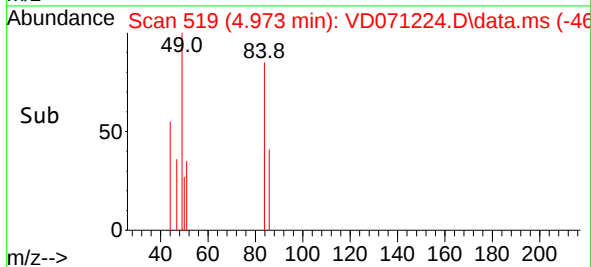
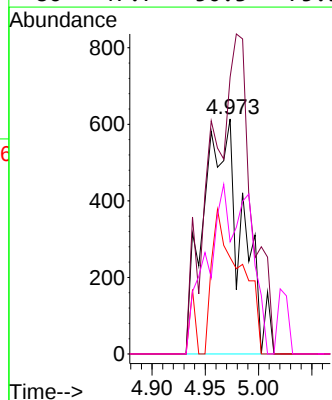
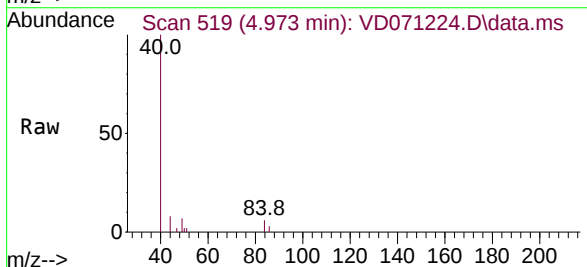
Instrument :
MSVOA_D
ClientSampleId :

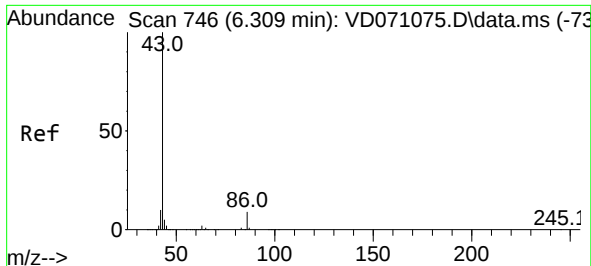
Tgt Ion: 43 Resp: 1286
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#20
Methylene Chloride
Concen: 2.267 ug/l
RT: 4.973 min Scan# 519
Delta R.T. 0.005 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Tgt Ion: 84 Resp: 1565
Ion Ratio Lower Upper
84 100
49 117.8 95.8 143.6
51 41.0 30.9 46.3
86 47.7 50.3 75.5#

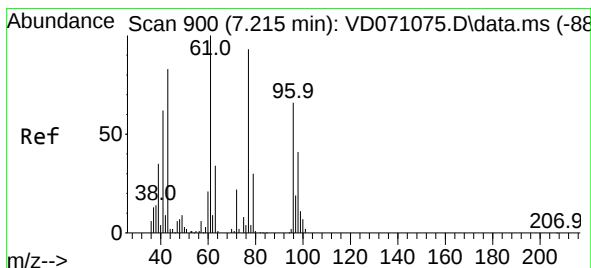
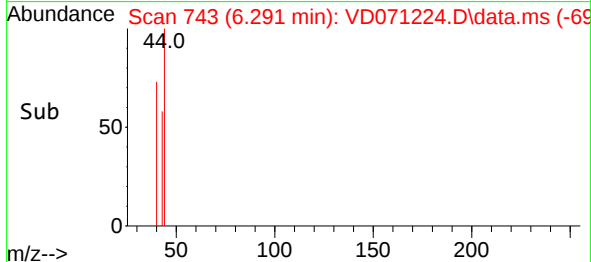
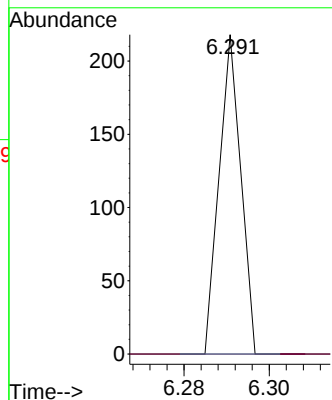
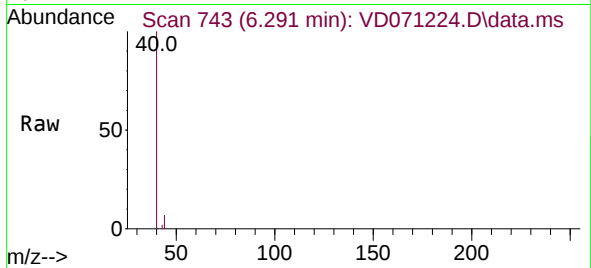




#23
 Vinyl Acetate
 Concen: 27.388 ug/l
 RT: 6.291 min Scan# 746
 Delta R.T. -0.018 min
 Lab File: VD071224.D
 Acq: 09 Dec 2021 13:21

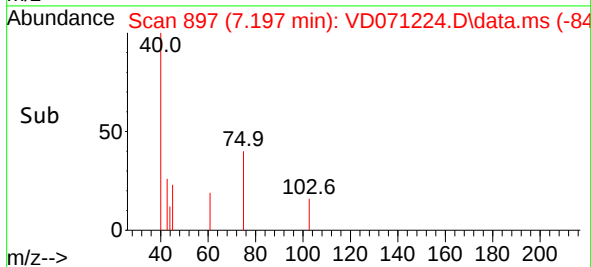
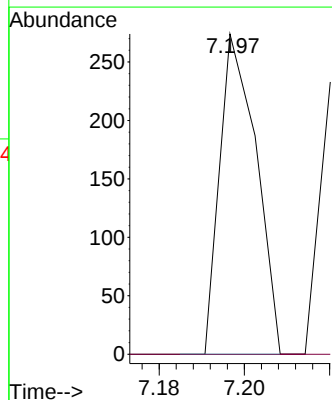
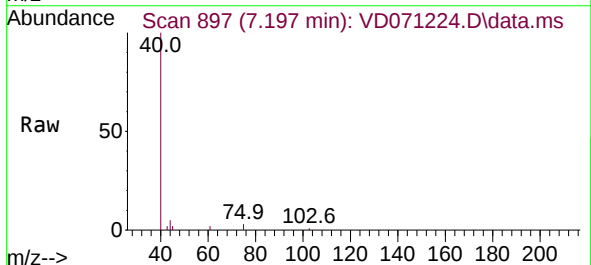
Instrument :
 MSVOA_D
 ClientSampleId :

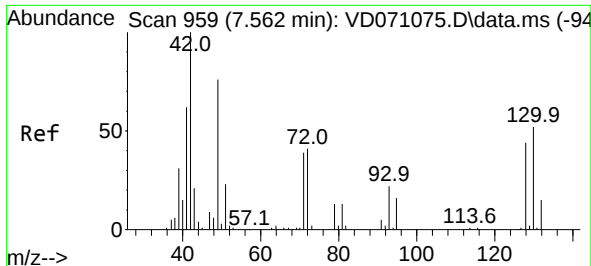
Tgt Ion: 43 Resp: 77
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 30.259 ug/l
 RT: 7.197 min Scan# 897
 Delta R.T. -0.018 min
 Lab File: VD071224.D
 Acq: 09 Dec 2021 13:21

Tgt Ion: 43 Resp: 163
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 1.397 ug/l

RT: 7.544 min Scan# 91

Delta R.T. -0.018 min

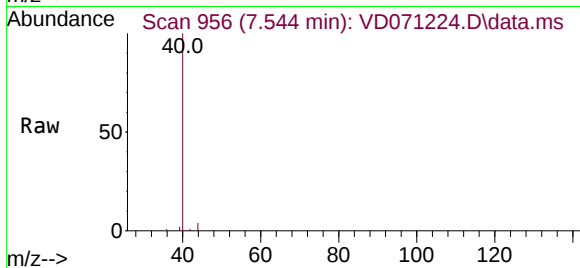
Lab File: VD071224.D

Acq: 09 Dec 2021 13:21

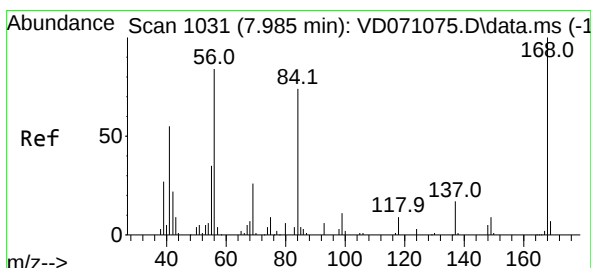
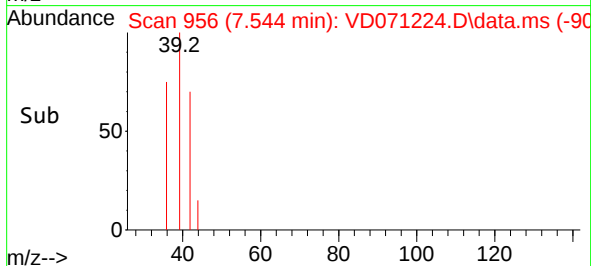
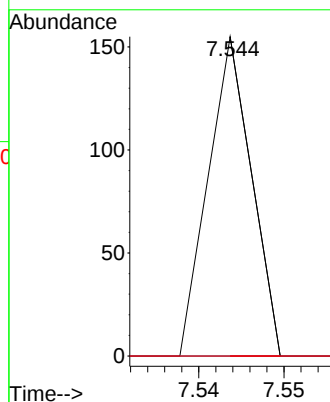
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	55
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#31

Cyclohexane

Concen: 1.610 ug/l

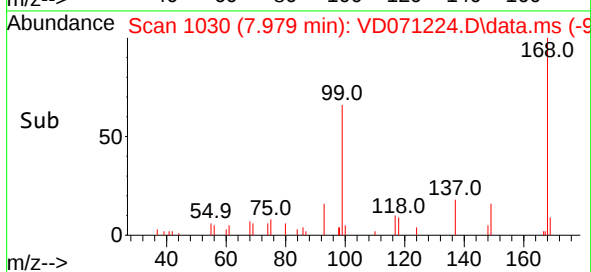
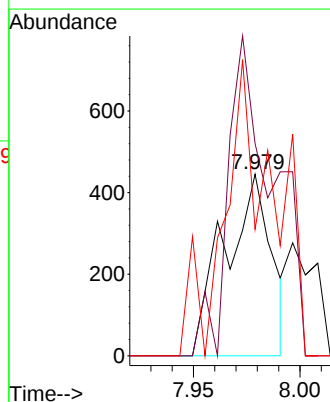
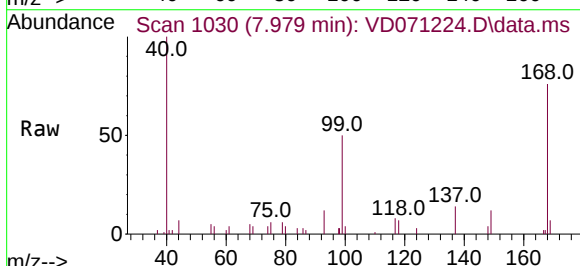
RT: 7.979 min Scan# 1030

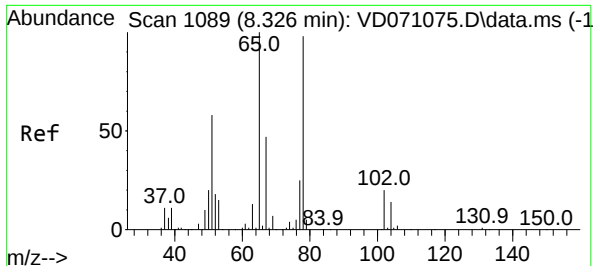
Delta R.T. -0.006 min

Lab File: VD071224.D

Acq: 09 Dec 2021 13:21

Tgt Ion:	56	Resp:	679
Ion	Ratio	Lower	Upper
56	100		
69	116.9	25.9	38.9#
84	69.7	64.3	96.5





#33

1,2-Dichloroethane-d4

Concen: 72.864 ug/l

RT: 8.332 min Scan# 110

Delta R.T. 0.006 min

Lab File: VD071224.D

Acq: 09 Dec 2021 13:21

Instrument :

MSVOA_D

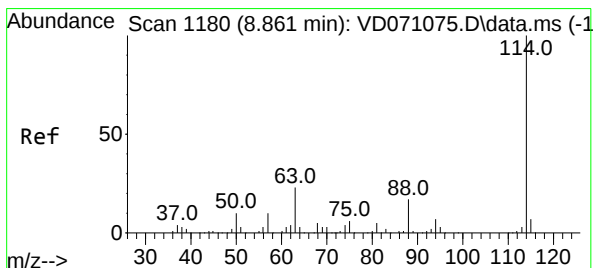
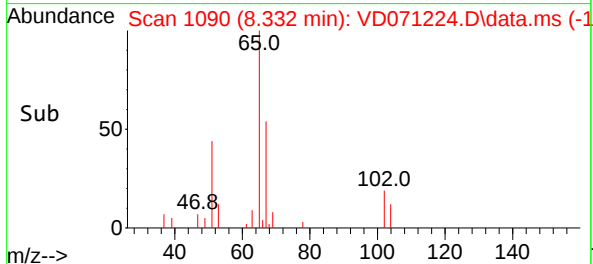
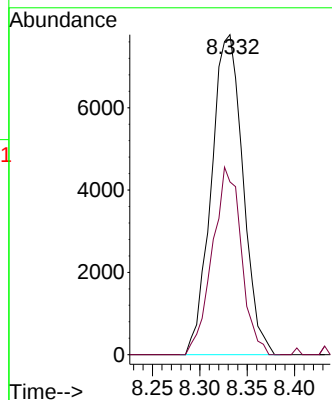
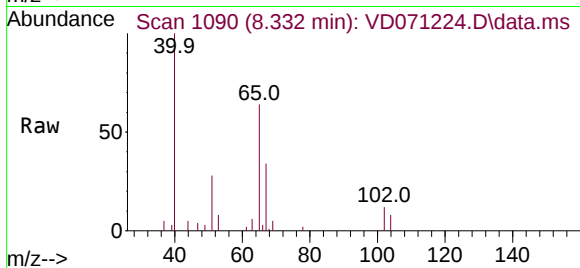
ClientSampleId :

Tgt Ion: 65 Resp: 18070

Ion Ratio Lower Upper

65 100

67 53.7 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: VD071224.D

Acq: 09 Dec 2021 13:21

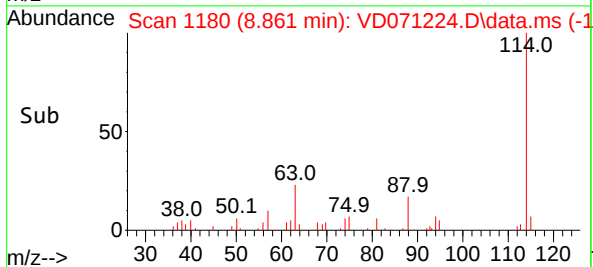
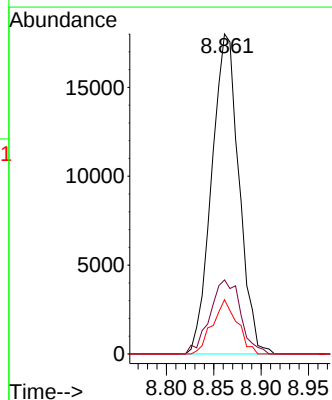
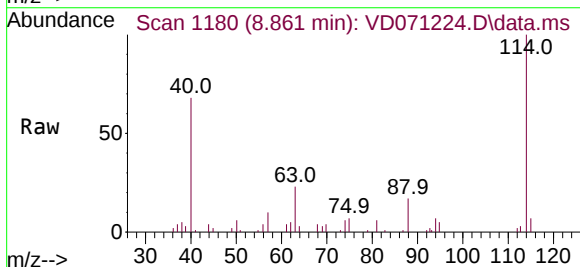
Tgt Ion: 114 Resp: 36156

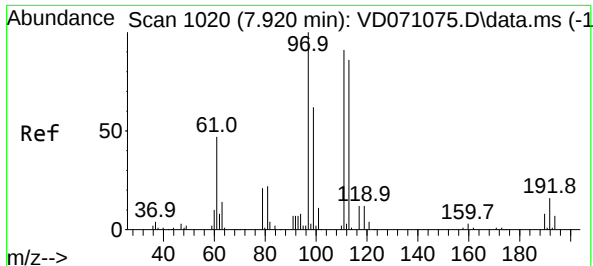
Ion Ratio Lower Upper

114 100

63 23.2 0.0 41.8

88 17.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 55.256 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071224.D

Acq: 09 Dec 2021 13:21

Instrument :

MSVOA_D

ClientSampleId :

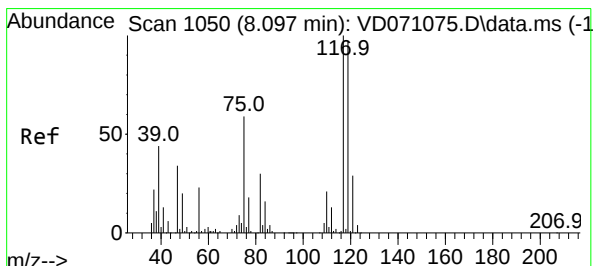
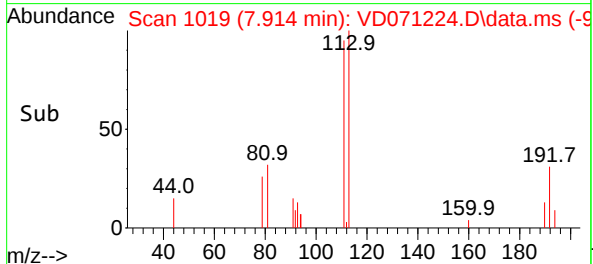
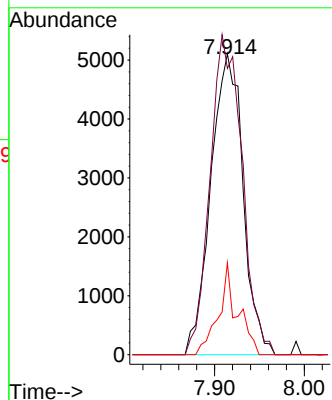
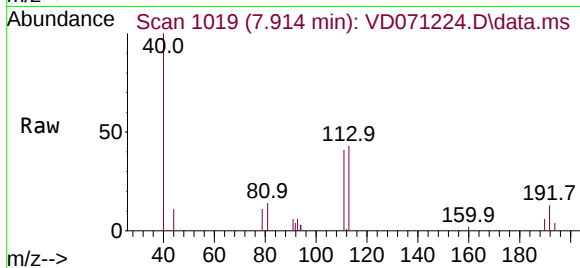
Tgt Ion:113 Resp: 12722

Ion Ratio Lower Upper

113 100

111 105.4 82.0 123.0

192 17.8 15.2 22.8



#38

Carbon Tetrachloride

Concen: 8.033 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.124 min

Lab File: VD071224.D

Acq: 09 Dec 2021 13:21

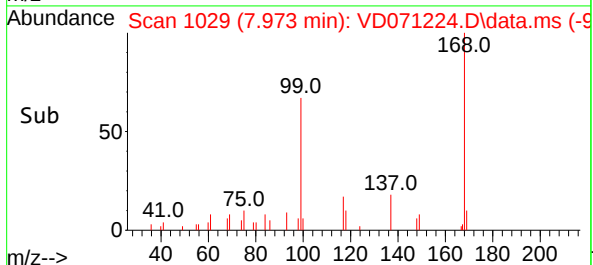
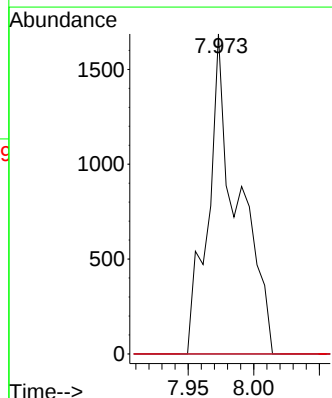
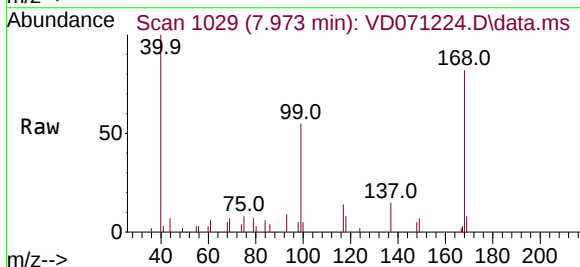
Tgt Ion:117 Resp: 2676

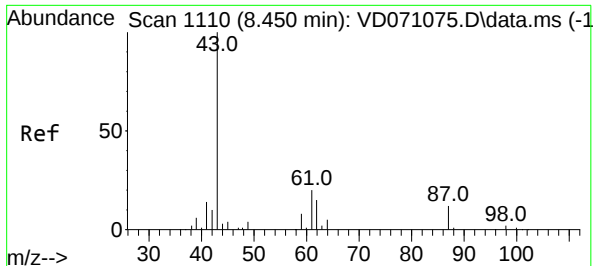
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.541 ug/l

RT: 8.455 min Scan# 1110

Delta R.T. 0.005 min

Lab File: VD071224.D

Acq: 09 Dec 2021 13:21

Instrument :

MSVOA_D

ClientSampleId :

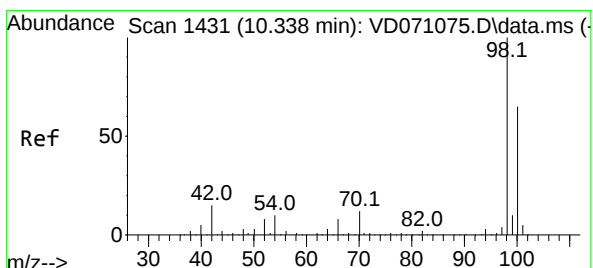
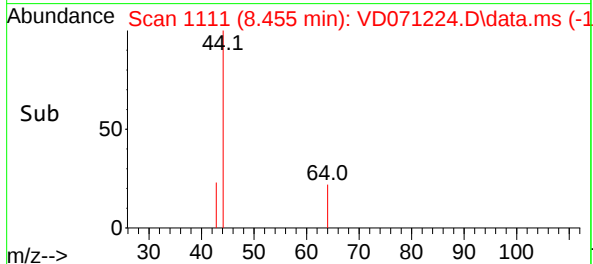
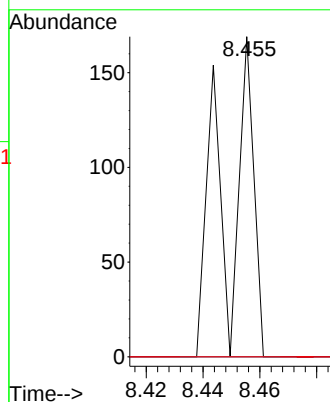
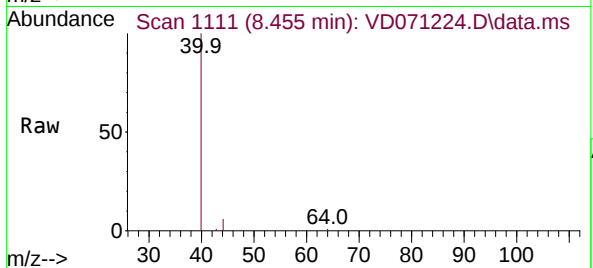
Tgt Ion: 43 Resp: 114

Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



#50

Toluene-d8

Concen: 54.659 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071224.D

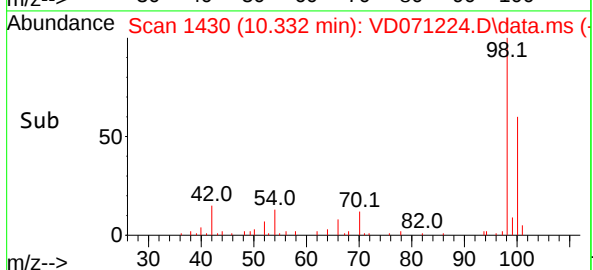
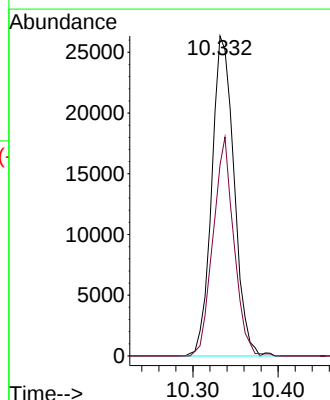
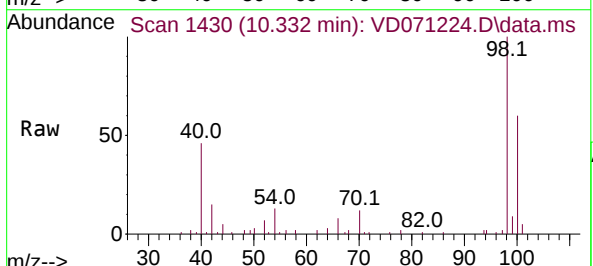
Acq: 09 Dec 2021 13:21

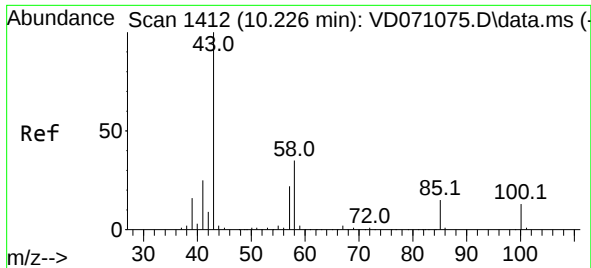
Tgt Ion: 98 Resp: 47891

Ion Ratio Lower Upper

98 100

100 63.8 51.8 77.6

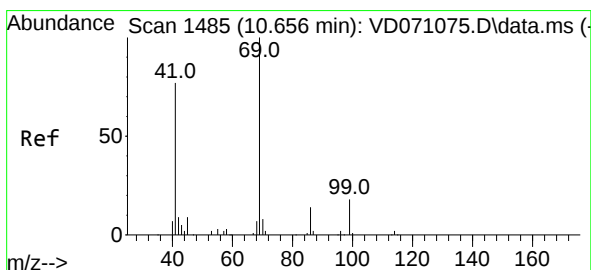
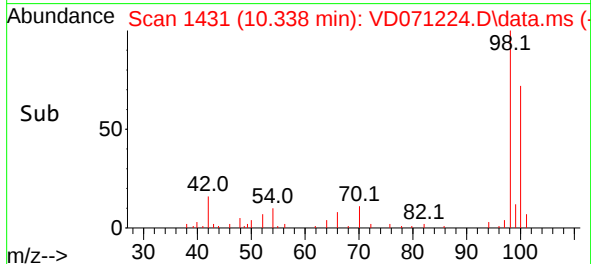
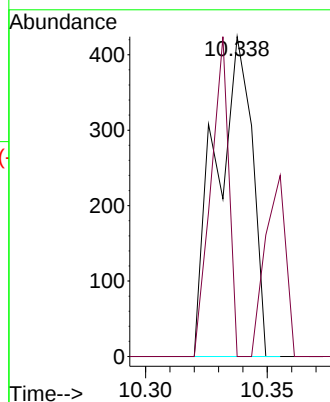
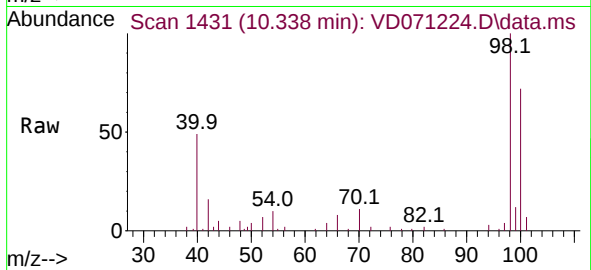




#51
4-Methyl-2-Pentanone
Concen: 32.997 ug/l
RT: 10.338 min Scan# 1412
Delta R.T. 0.112 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

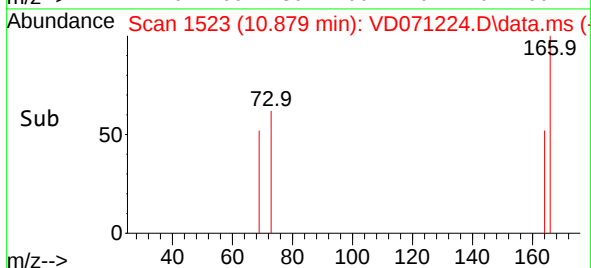
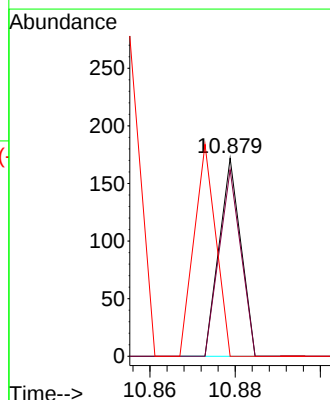
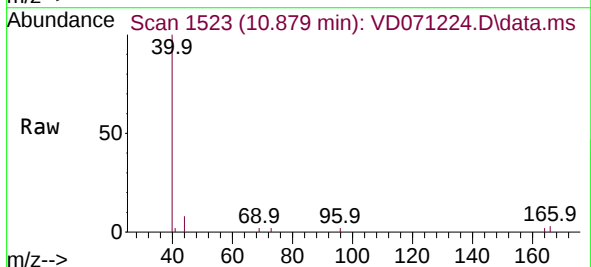
Instrument :
MSVOA_D
ClientSampleId :

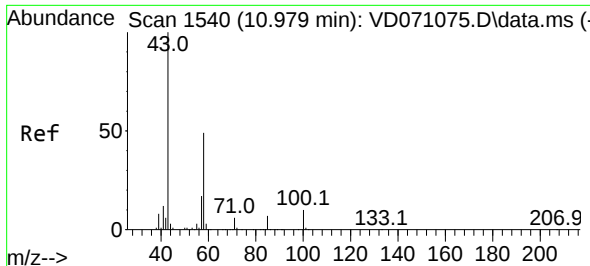
Tgt Ion: 43 Resp: 440
Ion Ratio Lower Upper
43 100
58 49.3 33.1 49.7



#56
Ethyl methacrylate
Concen: 6.197 ug/l
RT: 10.879 min Scan# 1523
Delta R.T. 0.223 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Tgt Ion: 69 Resp: 61
Ion Ratio Lower Upper
69 100
41 93.4 50.2 75.2#
39 106.6 19.8 29.8#

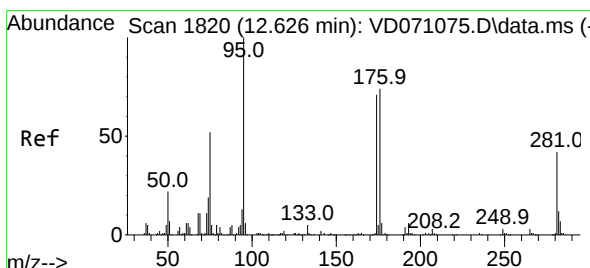
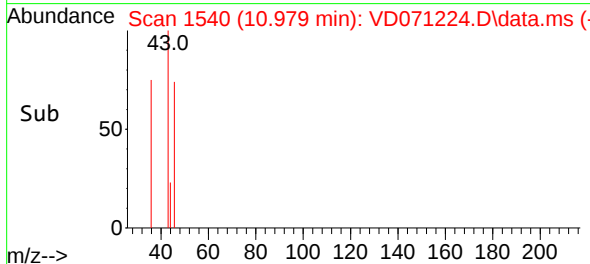
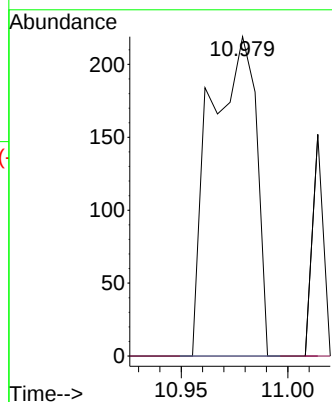
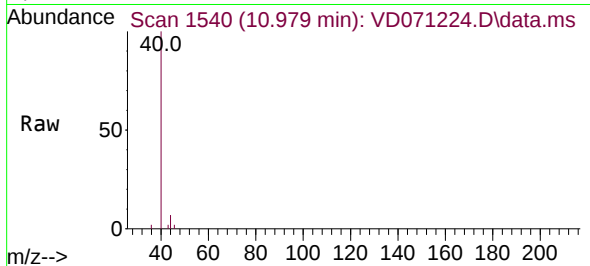




#59
2-Hexanone
Concen: 36.839 ug/l
RT: 10.979 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

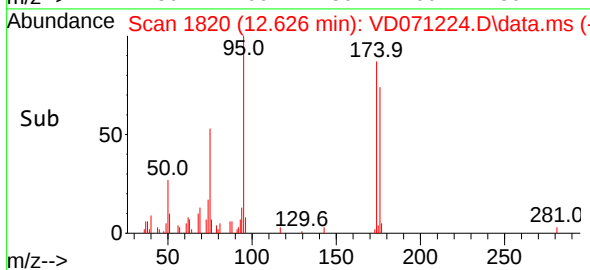
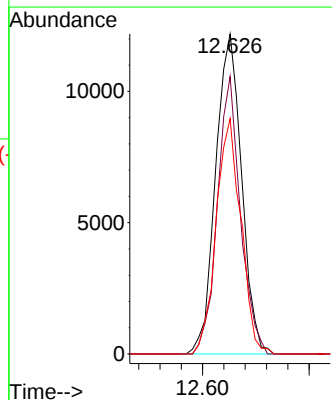
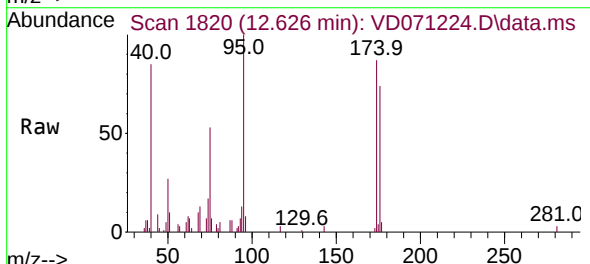
Instrument :
MSVOA_D
ClientSampleId :

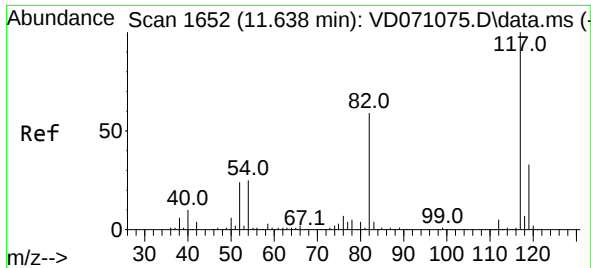
Tgt Ion: 43 Resp: 326
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 67.751 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Tgt Ion: 95 Resp: 20577
Ion Ratio Lower Upper
95 100
174 76.9 0.0 159.4
176 70.2 0.0 154.0

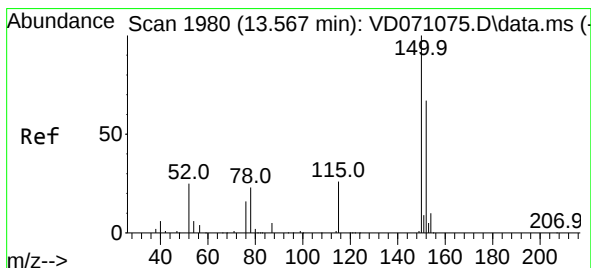
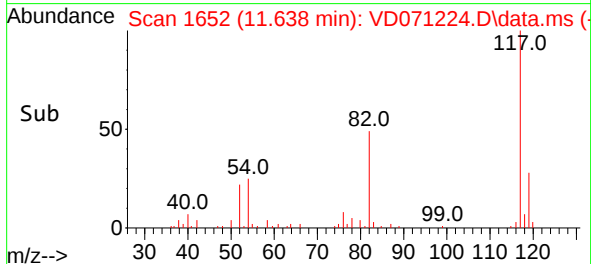
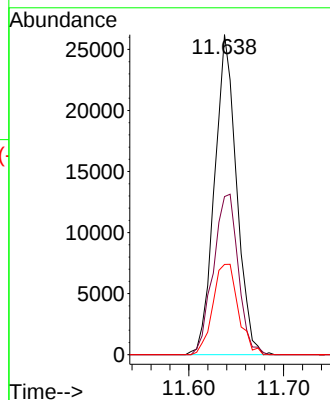
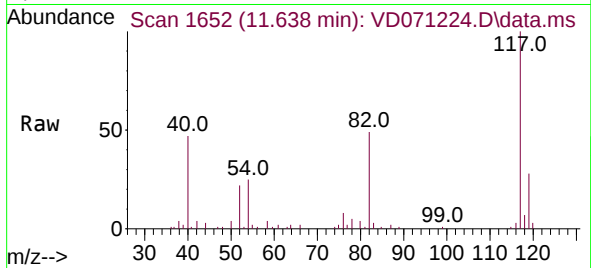




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

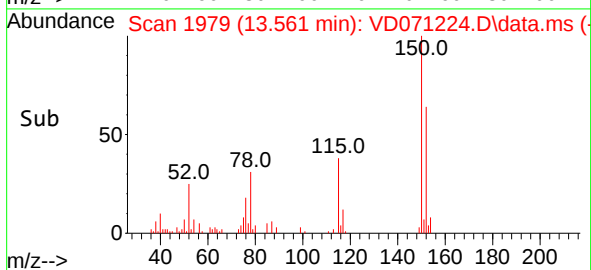
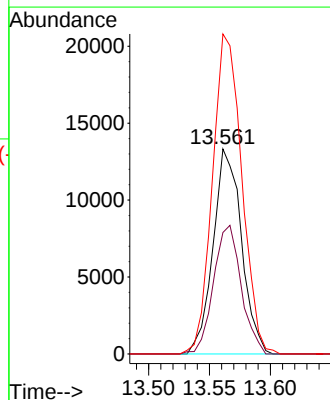
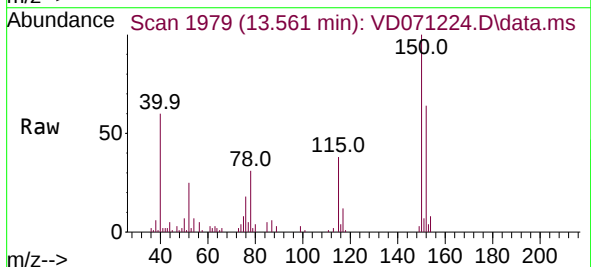
Instrument :
MSVOA_D
ClientSampleId :

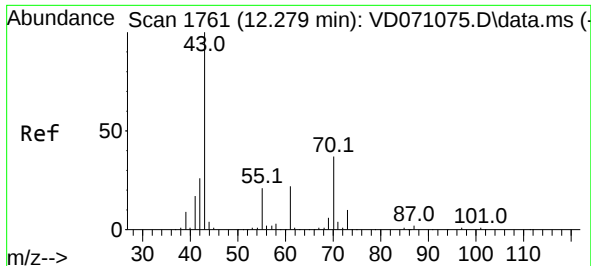
Tgt Ion:117 Resp: 42281
Ion Ratio Lower Upper
117 100
82 49.4 44.7 67.1
119 28.2 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

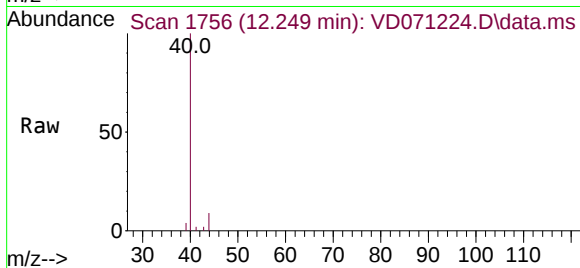
Tgt Ion:152 Resp: 21580
Ion Ratio Lower Upper
152 100
115 61.3 29.8 89.3
150 161.4 0.0 349.2



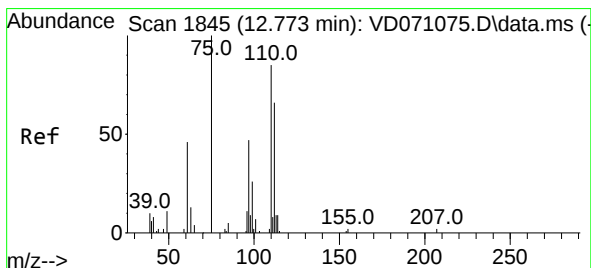
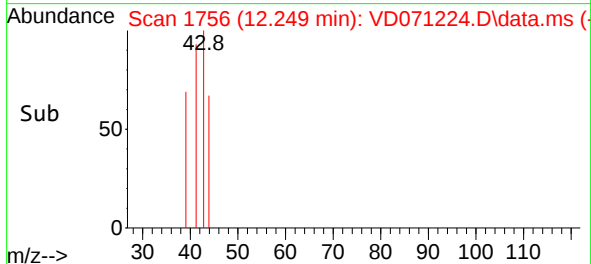
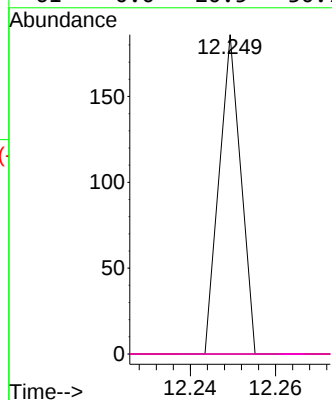


#74
N-amy1 acetate
Concen: 5.838 ug/l
RT: 12.249 min Scan# 1819
Delta R.T. -0.030 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Instrument :
MSVOA_D
ClientSampleId :

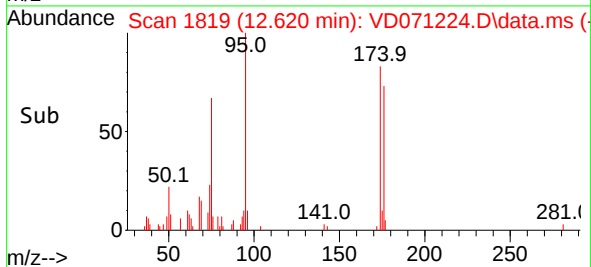
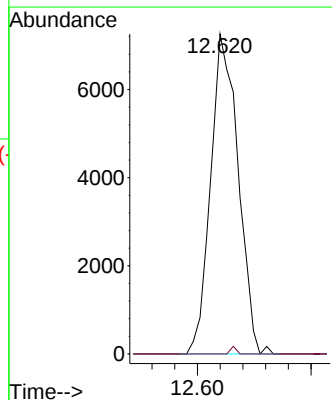
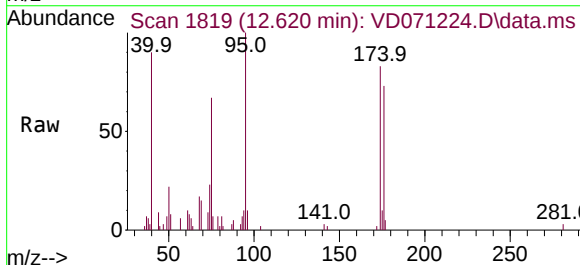


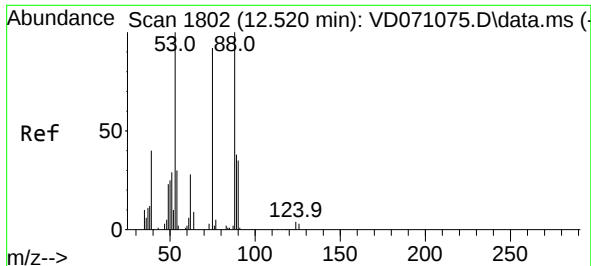
Tgt Ion: 43	Resp:	66
Ion	Ratio	Lower Upper
43	100	
70	0.0	36.6 55.0#
55	0.0	22.5 33.7#
61	0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 59.405 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Tgt Ion: 75	Resp:	12214
Ion	Ratio	Lower Upper
75	100	
77	0.5	158.4 475.3#

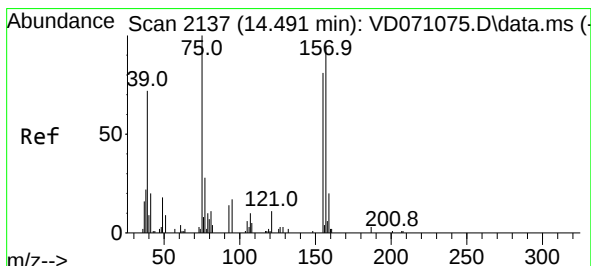
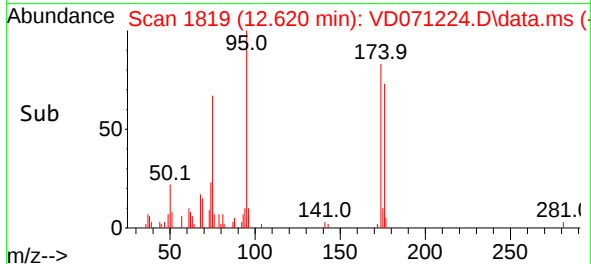
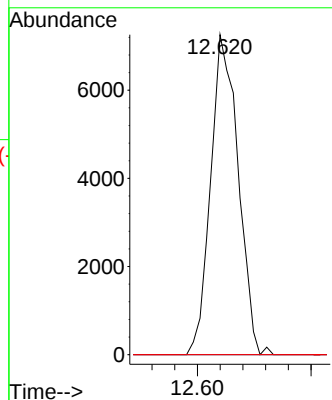
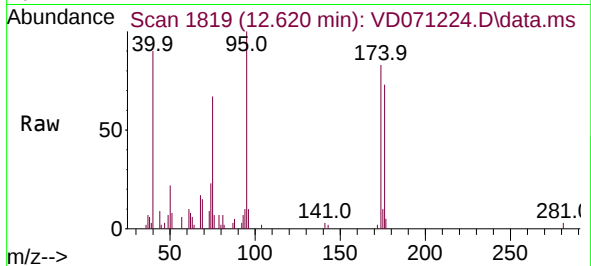




#81
trans-1,4-Dichloro-2-butene
Concen: 128.674 ug/l
RT: 12.620 min Scan# 11
Delta R.T. 0.100 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

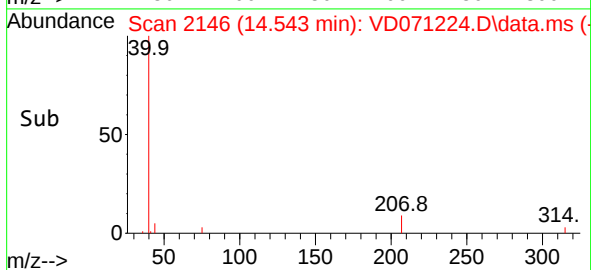
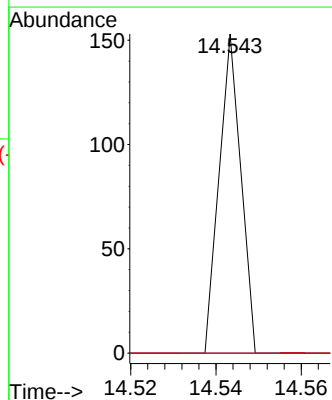
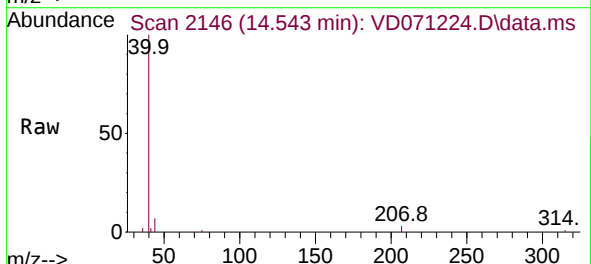
Instrument :
MSVOA_D
ClientSampleId :

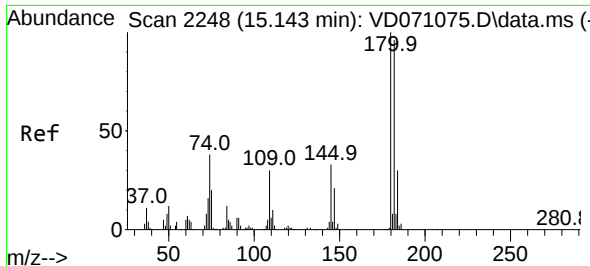
Tgt Ion: 75 Resp: 12214
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.289 ug/l
RT: 14.543 min Scan# 2146
Delta R.T. 0.052 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

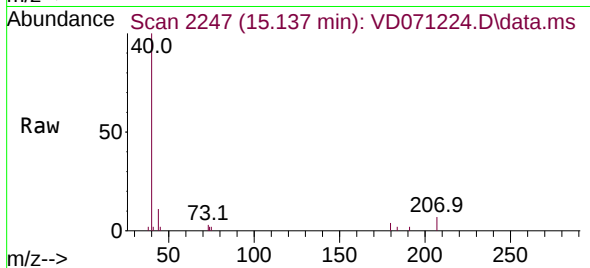
Tgt Ion: 75 Resp: 54
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#



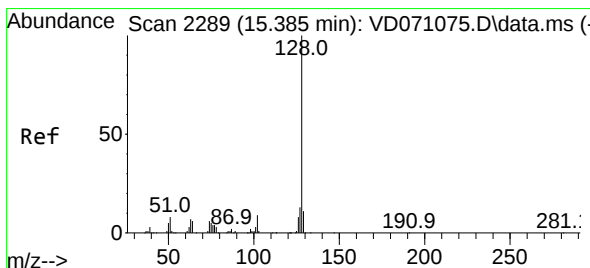
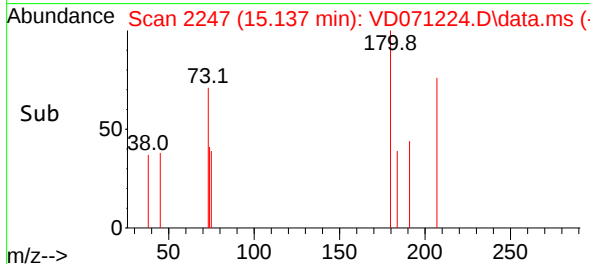
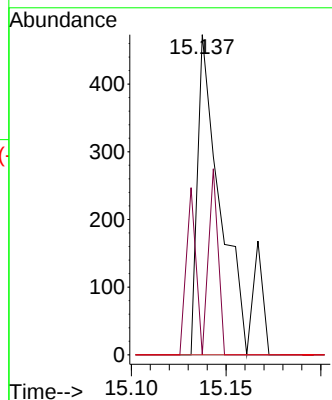


#93
1,2,4-Trichlorobenzene
Concen: 1.242 ug/l
RT: 15.137 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:180 Resp: 444
Ion Ratio Lower Upper
180 100
182 41.4 48.2 144.6#
145 0.0 15.4 46.2#



#95
Naphthalene
Concen: 1.797 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. -0.001 min
Lab File: VD071224.D
Acq: 09 Dec 2021 13:21

Tgt Ion:128 Resp: 1132
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 6.3 8.7 13.1#

