

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041423\
 Data File : VD075688.D
 Acq On : 14 Apr 2023 19:34
 Operator : KP/SY
 Sample : 02347-01
 Misc : 9.88G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20230224-8-2

Quant Time: Apr 17 09:14:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D041323S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 13 14:16:29 2023
 Response via : Initial Calibration

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

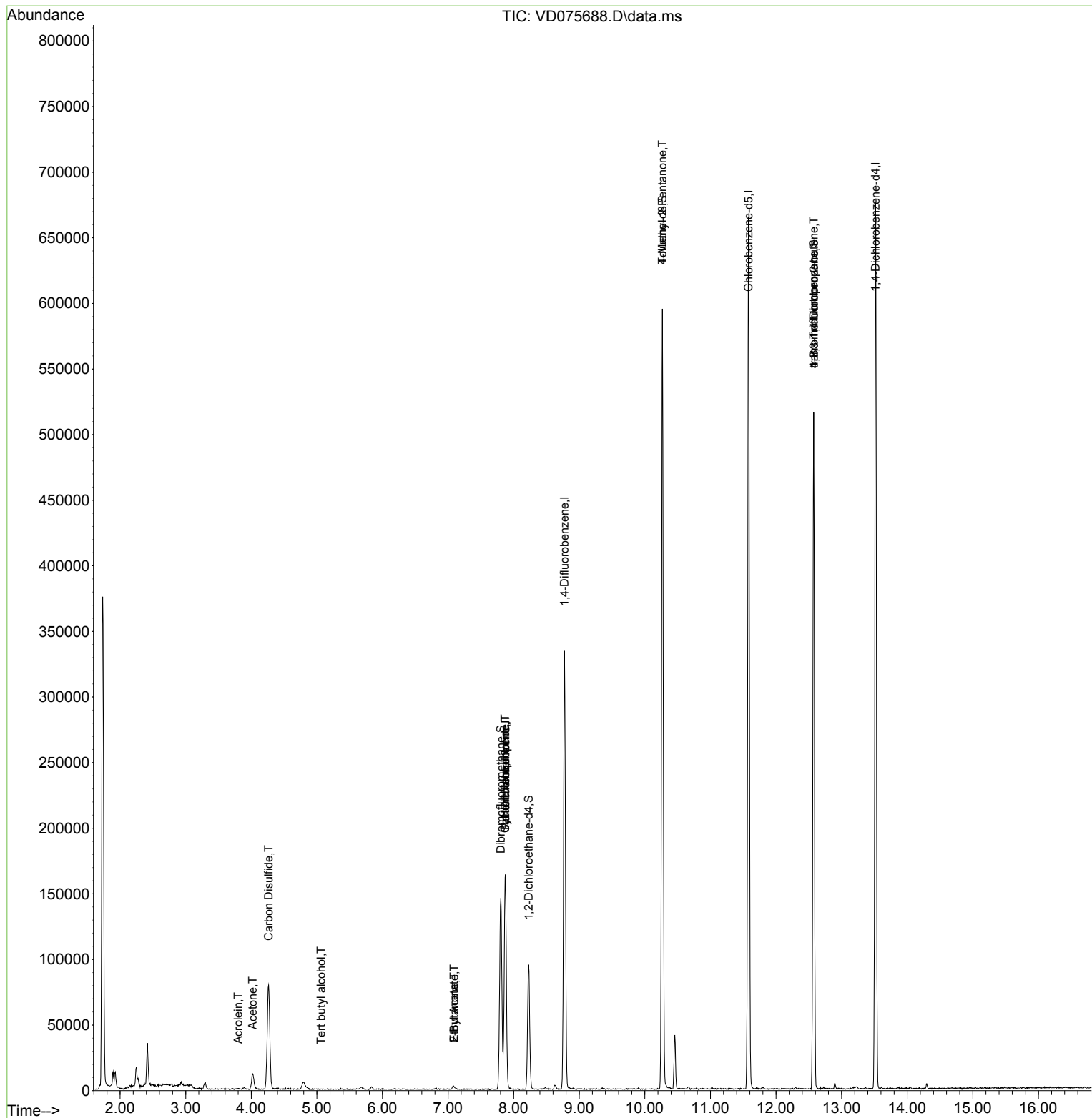
Internal Standards						
1) Pentafluorobenzene	7.875	168	135164	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	320868	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	419170	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	195064	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	74207	57.840	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.680%			
35) Dibromofluoromethane	7.804	113	110814	51.347	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.700%			
50) Toluene-d8	10.269	98	435929	50.440	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 100.880%			
62) 4-Bromofluorobenzene	12.575	95	164680	71.689	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 143.380%			
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.063	59	214	3.324	ug/l #	100
13) Acrolein	3.799	56	510	3.927	ug/l #	67
16) Acetone	4.022	43	18861	80.246	ug/l	91
17) Carbon Disulfide	4.263	76	174956	35.315	ug/l	95
20) Methylene Chloride	4.799	84	5605	Below Cal	#	66
25) 2-Butanone	7.093	43	4026	13.304	ug/l #	73
31) Cyclohexane	7.869	56	2649	1.316	ug/l #	1
36) 1,1-Dichloropropene	7.875	75	10317	3.465	ug/l #	49
37) Ethyl Acetate	7.093	43	4026	4.443	ug/l #	80
38) Carbon Tetrachloride	7.869	117	12191	4.650	ug/l #	19
51) 4-Methyl-2-Pentanone	10.269	43	1337	1.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.575	75	81598	51.296	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	81598	111.179	ug/l #	5

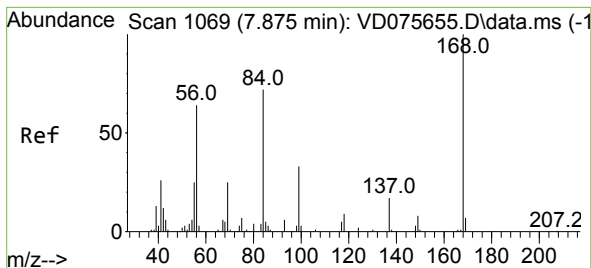
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

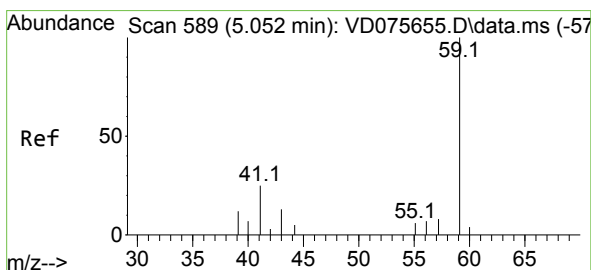
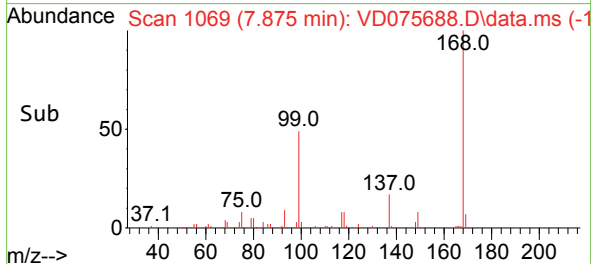
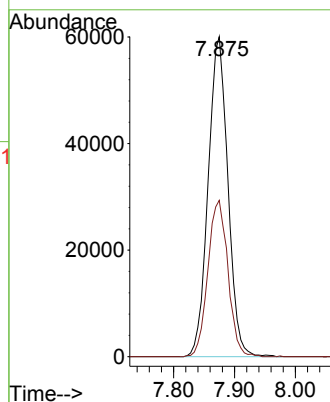
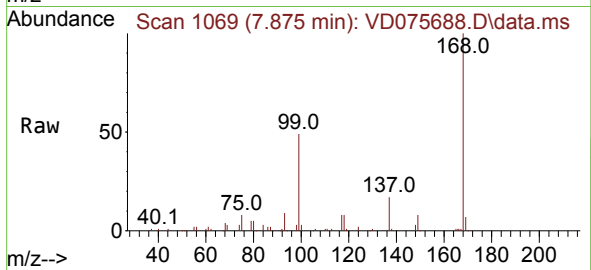
20230224-8-2

Tgt Ion:168 Resp: 135164

Ion Ratio Lower Upper

168 100

99 48.9 43.8 65.6



#11

Tert butyl alcohol

Concen: 3.324 ug/l

RT: 5.063 min Scan# 591

Delta R.T. 0.011 min

Lab File: VD075688.D

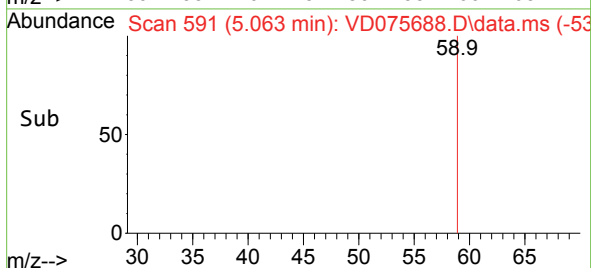
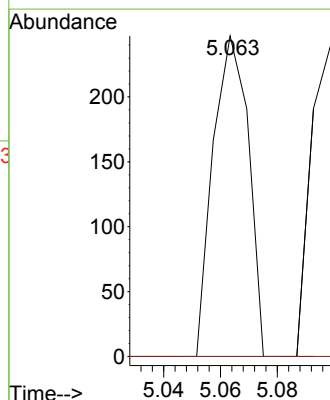
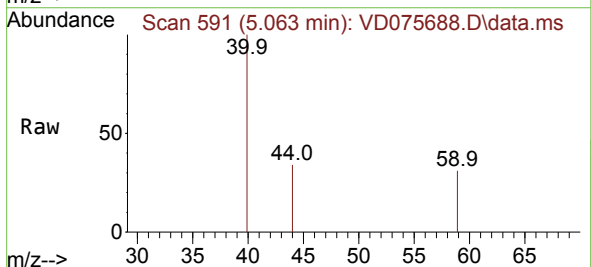
Acq: 14 Apr 2023 19:34

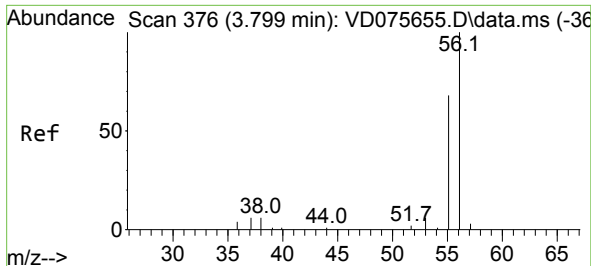
Tgt Ion: 59 Resp: 214

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0





#13

Acrolein

Concen: 3.927 ug/l

RT: 3.799 min Scan# 31

Delta R.T. -0.000 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

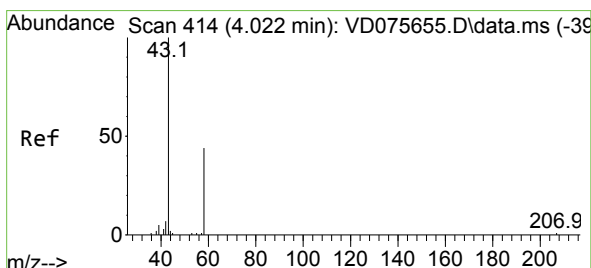
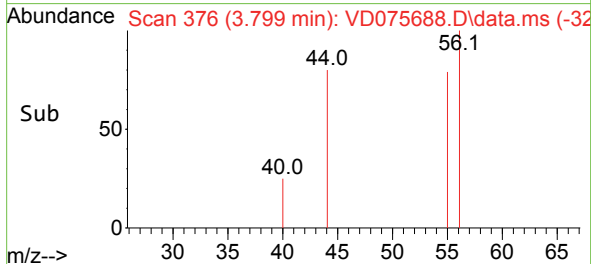
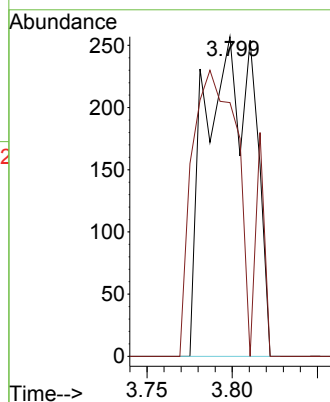
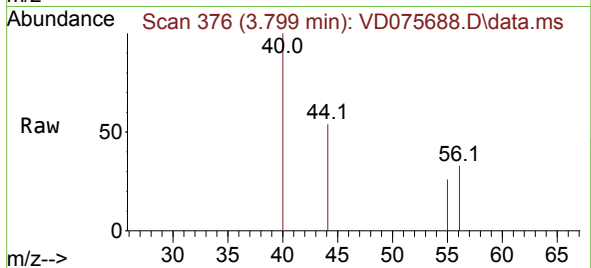
20230224-8-2

Tgt Ion: 56 Resp: 510

Ion Ratio Lower Upper

56 100

55 93.7 53.9 80.9#



#16

Acetone

Concen: 80.246 ug/l

RT: 4.022 min Scan# 414

Delta R.T. 0.000 min

Lab File: VD075688.D

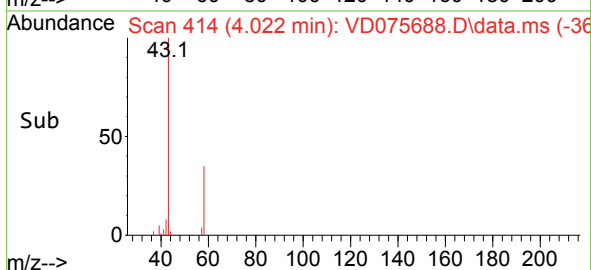
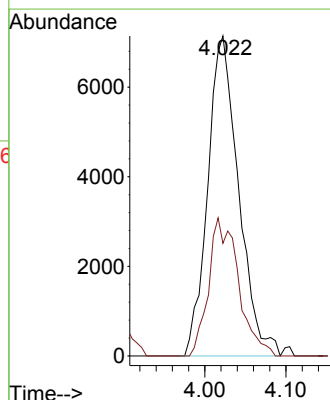
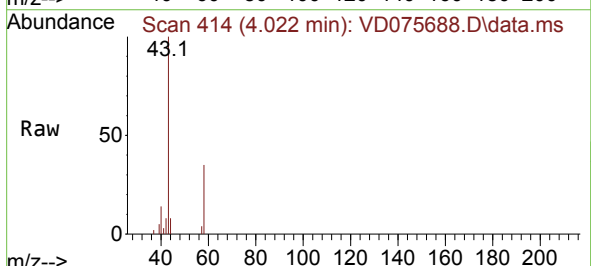
Acq: 14 Apr 2023 19:34

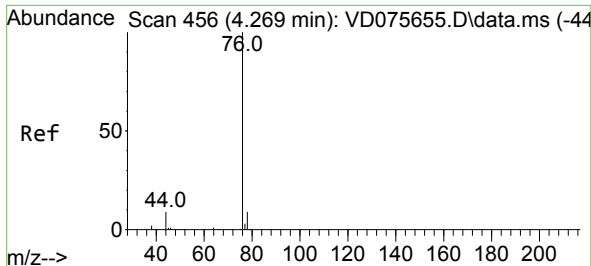
Tgt Ion: 43 Resp: 18861

Ion Ratio Lower Upper

43 100

58 35.2 24.4 36.6

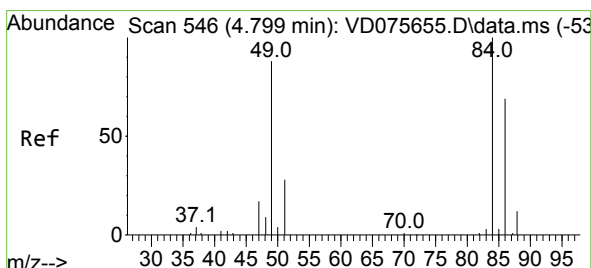
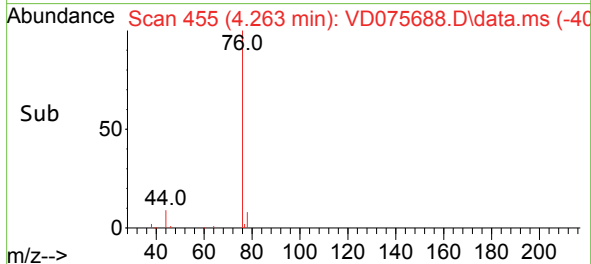
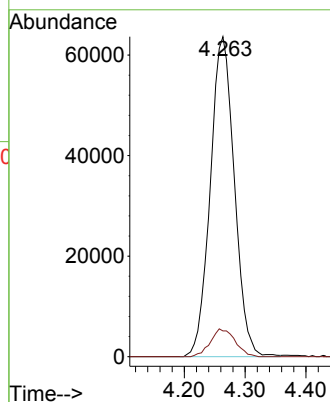
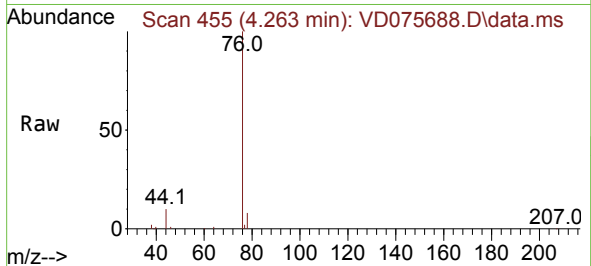




#17
Carbon Disulfide
Concen: 35.315 ug/l
RT: 4.263 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD075688.D
Acq: 14 Apr 2023 19:34

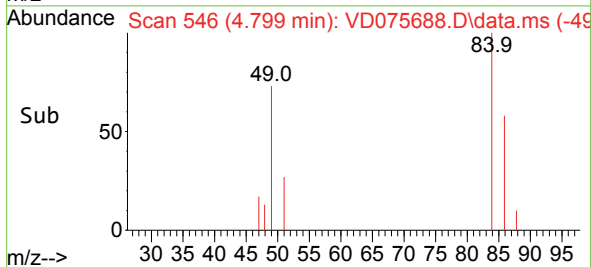
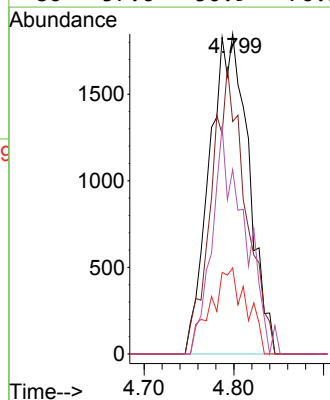
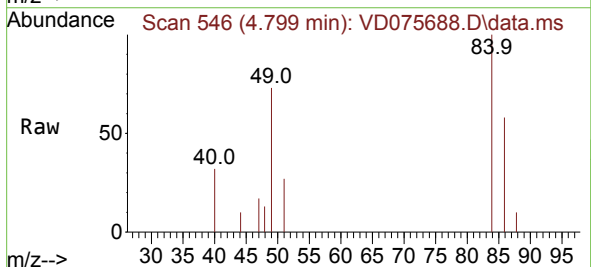
Instrument :
MSVOA_D
ClientSampleId :
20230224-8-2

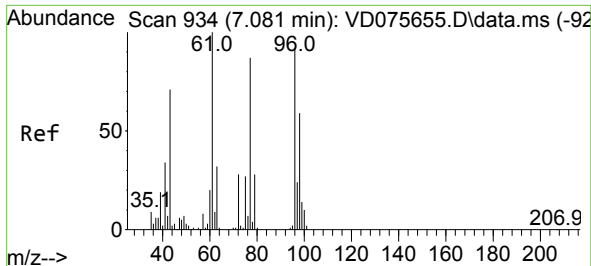
Tgt Ion: 76 Resp: 174956
Ion Ratio Lower Upper
76 100
78 8.1 8.0 12.0



#20
Methylene Chloride
Concen: Below Cal
RT: 4.799 min Scan# 546
Delta R.T. -0.000 min
Lab File: VD075688.D
Acq: 14 Apr 2023 19:34

Tgt Ion: 84 Resp: 5605
Ion Ratio Lower Upper
84 100
49 72.7 106.4 159.6#
51 26.9 32.4 48.6#
86 57.6 50.9 76.3

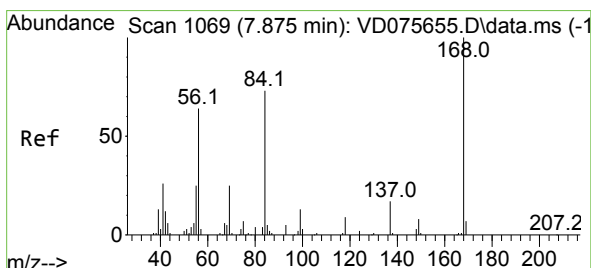
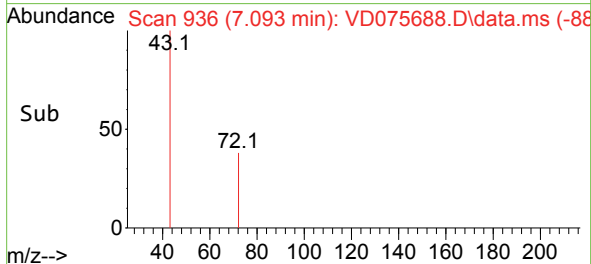
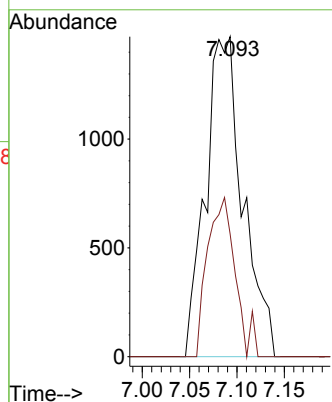
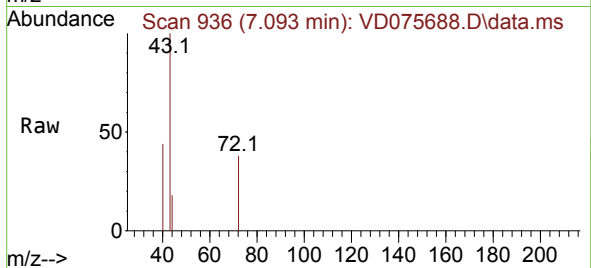




#25
2-Butanone
Concen: 13.304 ug/l
RT: 7.093 min Scan# 91
Delta R.T. 0.012 min
Lab File: VD075688.D
Acq: 14 Apr 2023 19:34

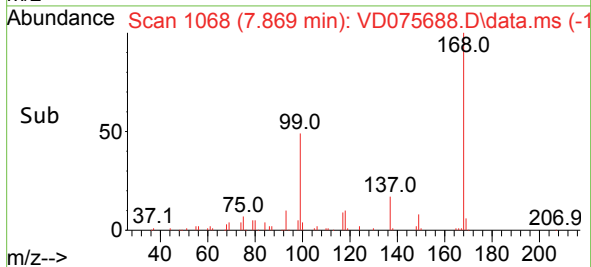
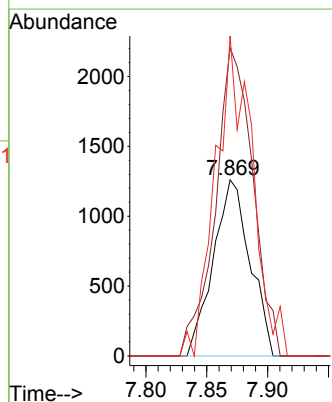
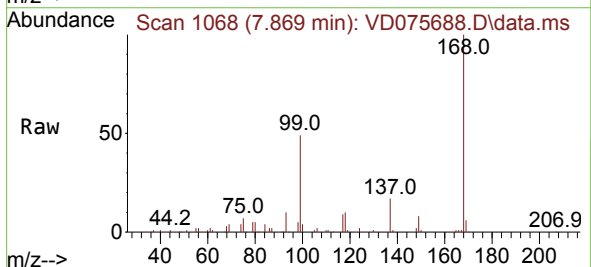
Instrument :
MSVOA_D
ClientSampleId :
20230224-8-2

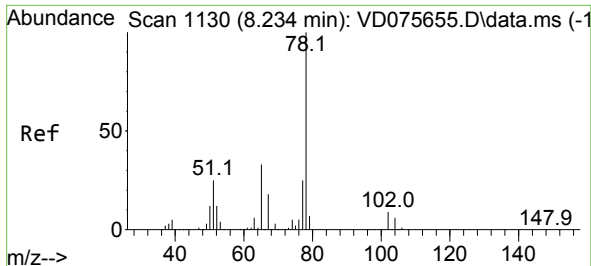
Tgt Ion: 43 Resp: 4026
Ion Ratio Lower Upper
43 100
72 38.3 19.8 29.8#



#31
Cyclohexane
Concen: 1.316 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VD075688.D
Acq: 14 Apr 2023 19:34

Tgt Ion: 56 Resp: 2649
Ion Ratio Lower Upper
56 100
69 174.9 25.5 38.3#
84 181.6 69.6 104.4#





#33

1,2-Dichloroethane-d4

Concen: 57.840 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

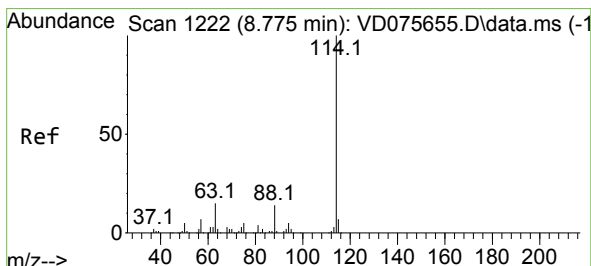
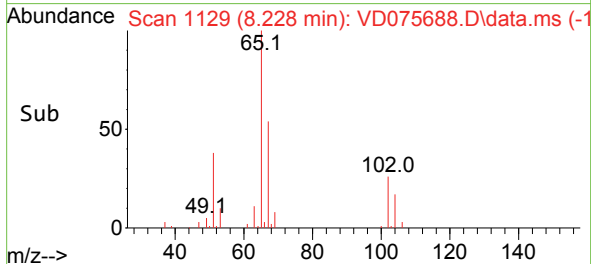
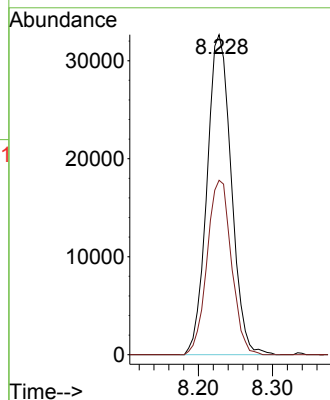
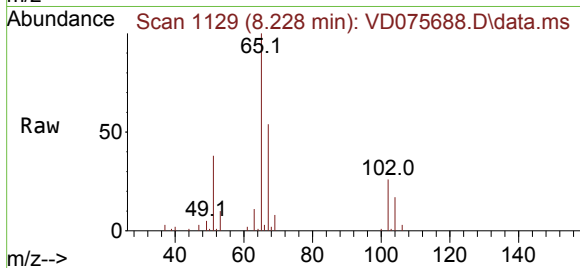
20230224-8-2

Tgt Ion: 65 Resp: 74207

Ion Ratio Lower Upper

65 100

67 54.6 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

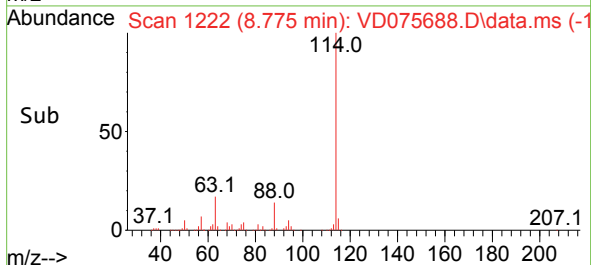
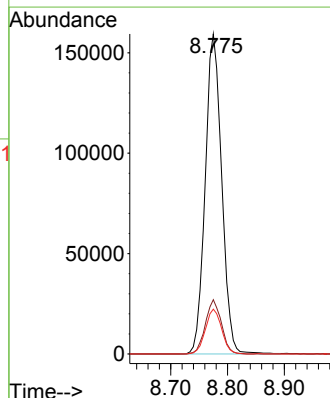
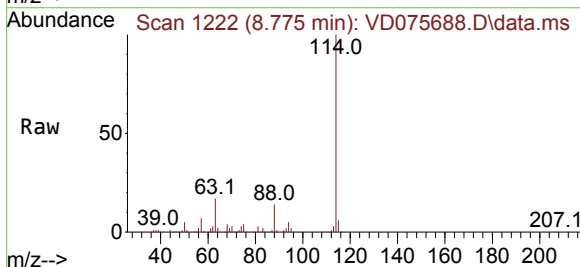
Tgt Ion: 114 Resp: 320868

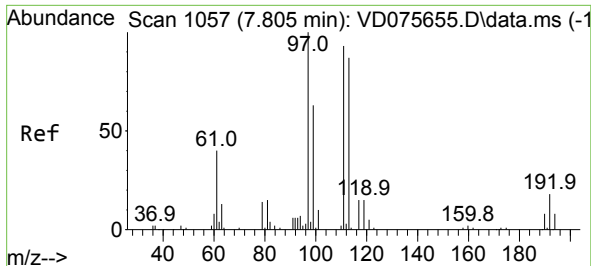
Ion Ratio Lower Upper

114 100

63 16.9 0.0 41.6

88 14.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.347 ug/l

RT: 7.804 min Scan# 110

Delta R.T. -0.001 min

Lab File: VD075688.D

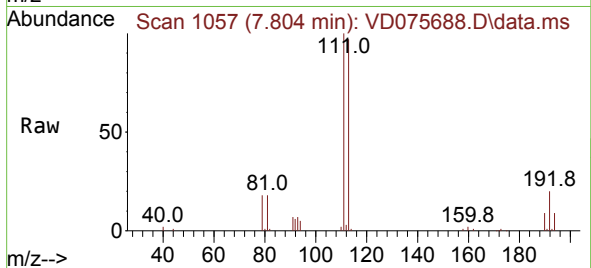
Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

20230224-8-2



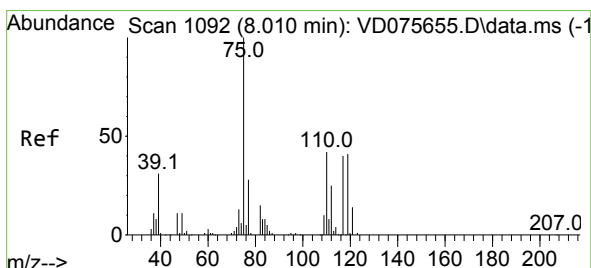
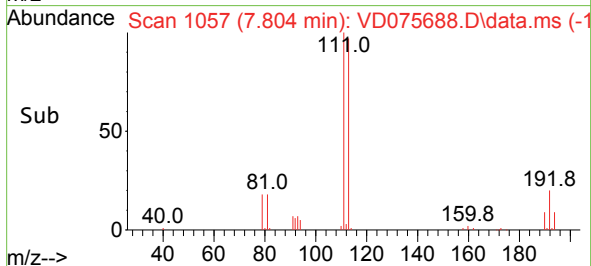
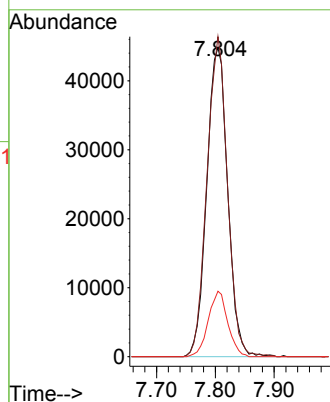
Tgt Ion:113 Resp: 110814

Ion Ratio Lower Upper

113 100

111 101.1 81.4 122.0

192 19.7 15.2 22.8



#36

1,1-Dichloropropene

Concen: 3.465 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

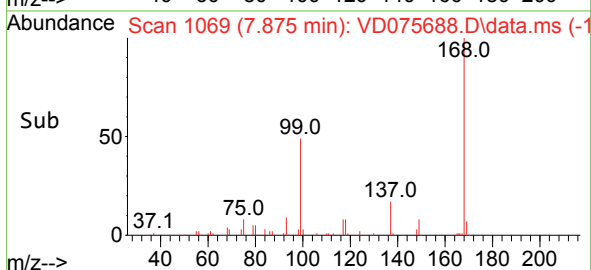
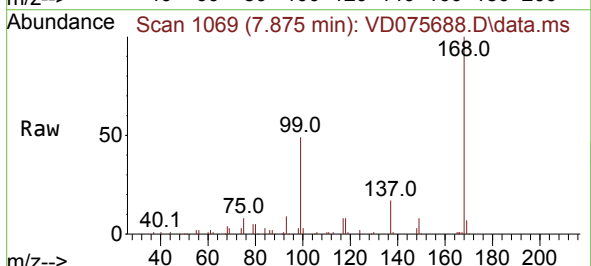
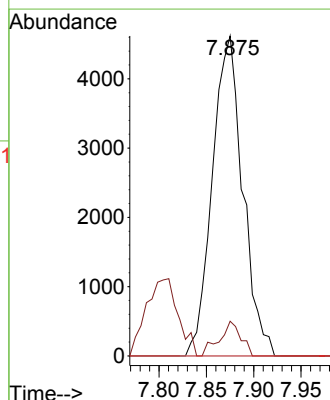
Tgt Ion: 75 Resp: 10317

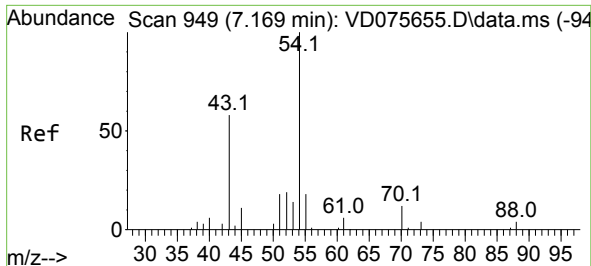
Ion Ratio Lower Upper

75 100

110 7.7 17.1 51.2#

77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 4.443 ug/l

RT: 7.093 min Scan# 91

Delta R.T. -0.076 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

20230224-8-2

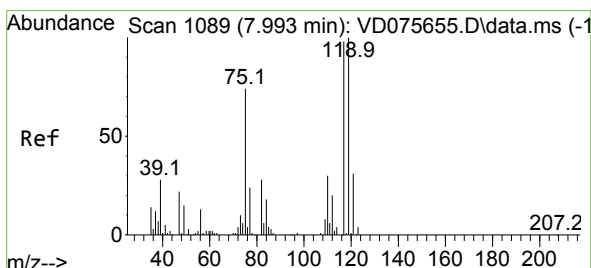
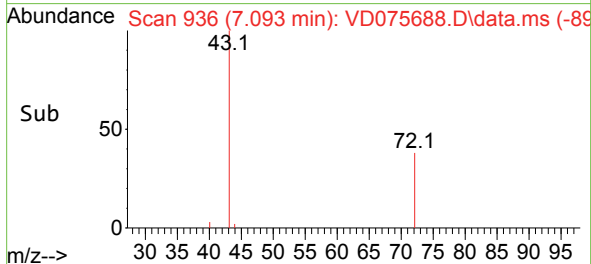
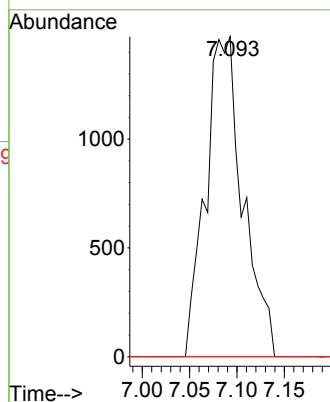
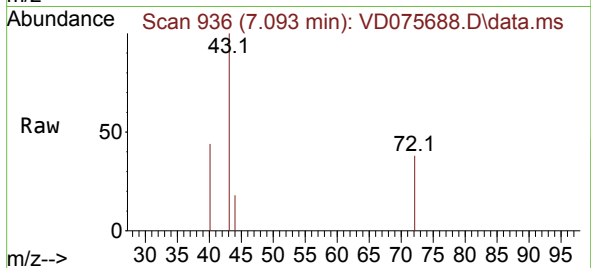
Tgt Ion: 43 Resp: 4026

Ion Ratio Lower Upper

43 100

61 0.0 0.0 0.0

70 0.0 5.6 8.4#



#38

Carbon Tetrachloride

Concen: 4.650 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.124 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

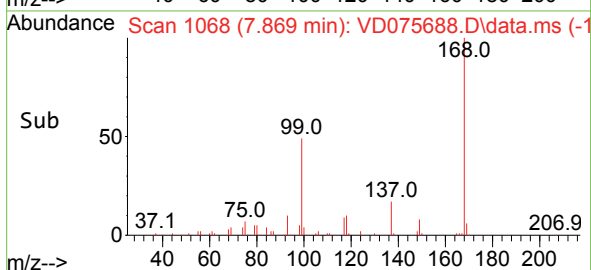
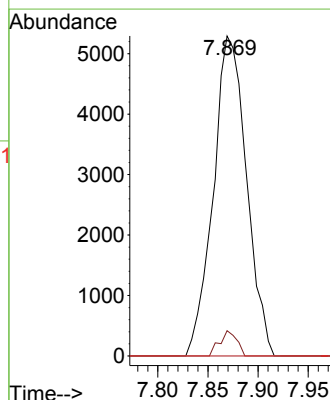
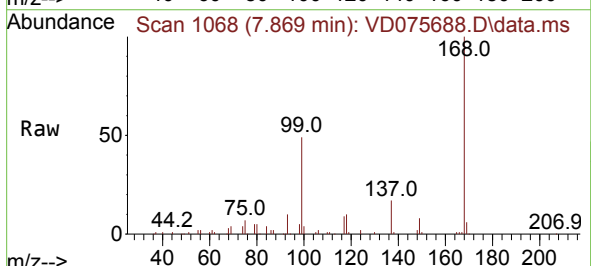
Tgt Ion: 117 Resp: 12191

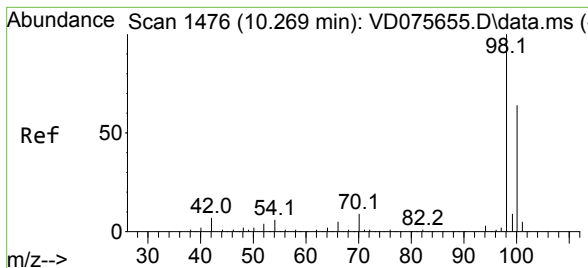
Ion Ratio Lower Upper

117 100

119 7.9 74.7 112.1#

121 0.0 25.9 38.9#





#50

Toluene-d8

Concen: 50.440 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

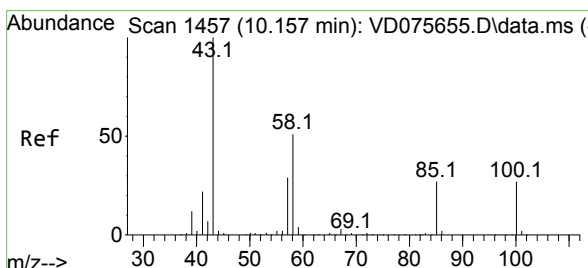
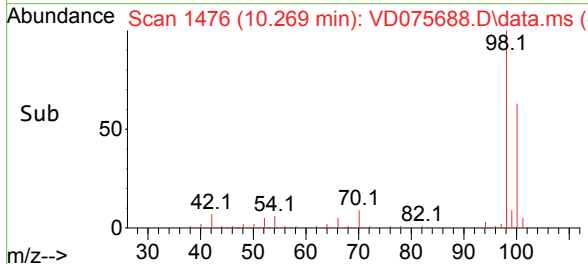
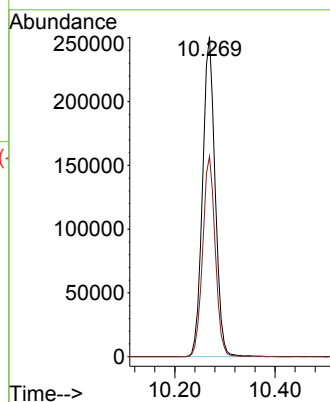
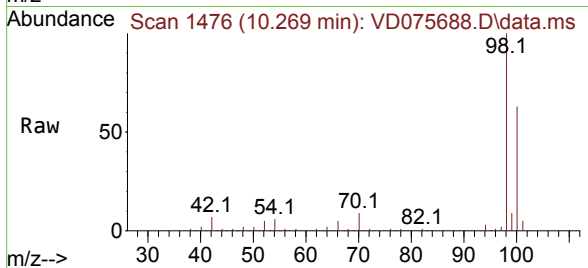
20230224-8-2

Tgt Ion: 98 Resp: 435929

Ion Ratio Lower Upper

98 100

100 62.6 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 1.518 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.112 min

Lab File: VD075688.D

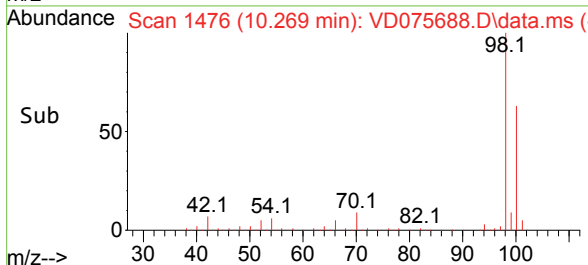
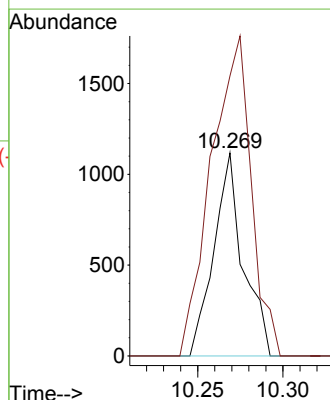
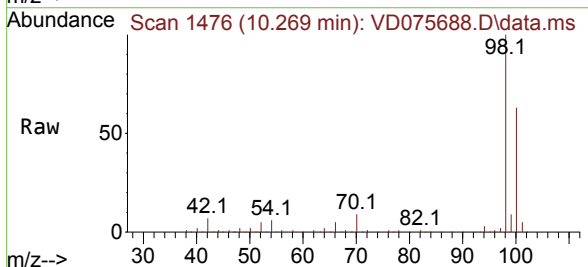
Acq: 14 Apr 2023 19:34

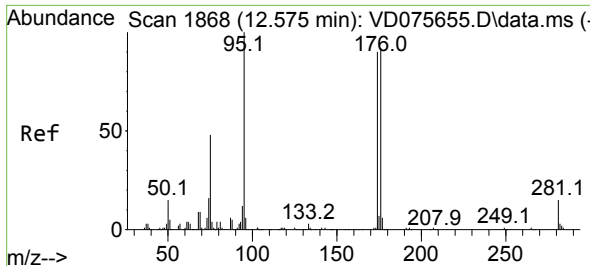
Tgt Ion: 43 Resp: 1337

Ion Ratio Lower Upper

43 100

58 214.5 29.5 44.3#

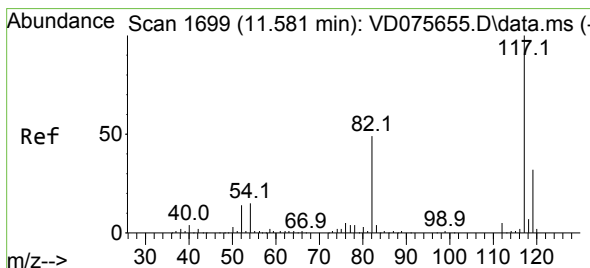
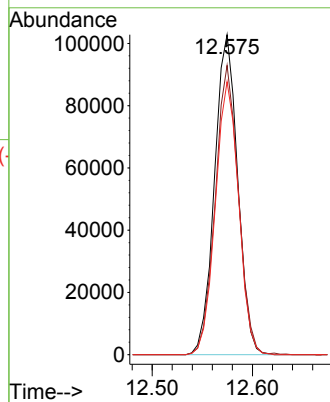
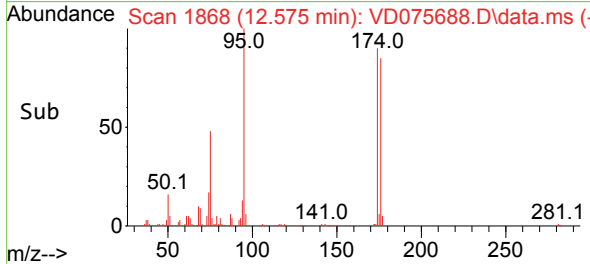
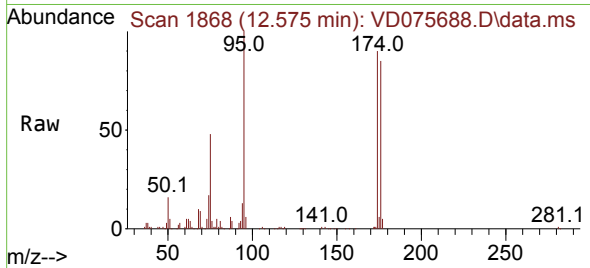




#62
4-Bromofluorobenzene
Concen: 71.689 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD075688.D
Acq: 14 Apr 2023 19:34

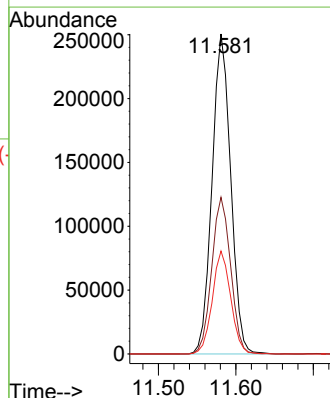
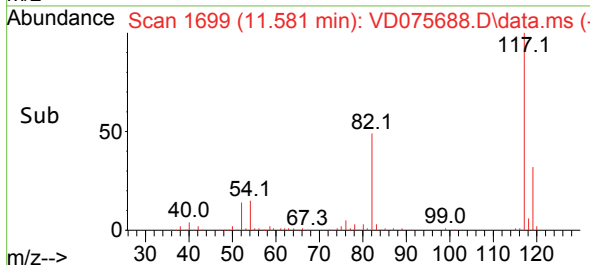
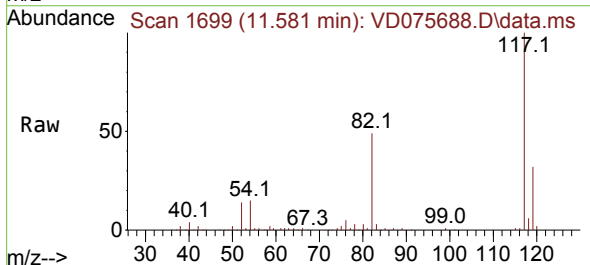
Instrument :
MSVOA_D
ClientSampleId :
20230224-8-2

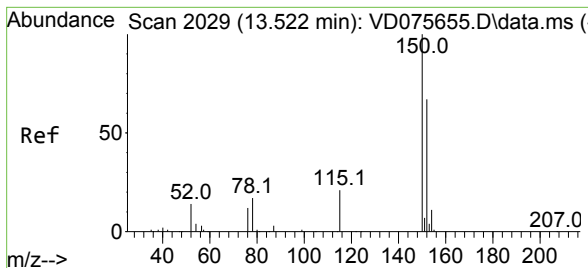
Tgt Ion: 95 Resp: 164680
Ion Ratio Lower Upper
95 100
174 90.4 0.0 164.0
176 85.7 0.0 156.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD075688.D
Acq: 14 Apr 2023 19:34

Tgt Ion: 117 Resp: 419170
Ion Ratio Lower Upper
117 100
82 48.9 44.0 66.0
119 32.1 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2029

Delta R.T. -0.006 min

Lab File: VD075688.D

Acq: 14 Apr 2023 19:34

Instrument :

MSVOA_D

ClientSampleId :

20230224-8-2

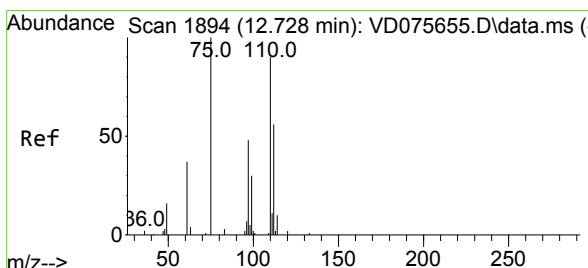
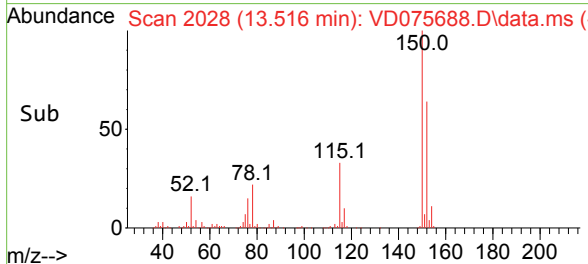
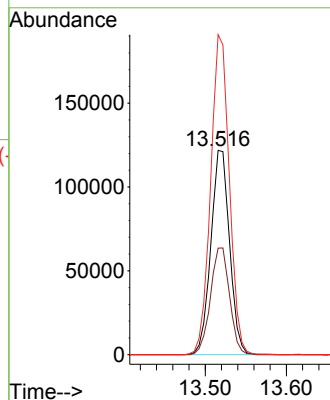
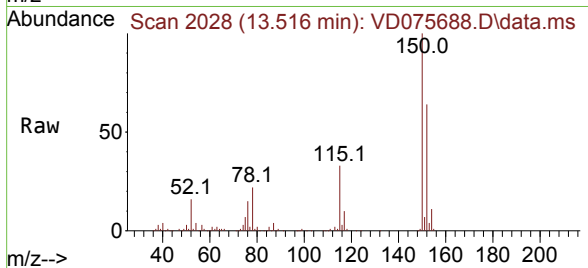
Tgt Ion:152 Resp: 195064

Ion Ratio Lower Upper

152 100

115 53.3 30.1 90.3

150 156.2 0.0 364.8



#76

1,2,3-Trichloropropane

Concen: 51.296 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD075688.D

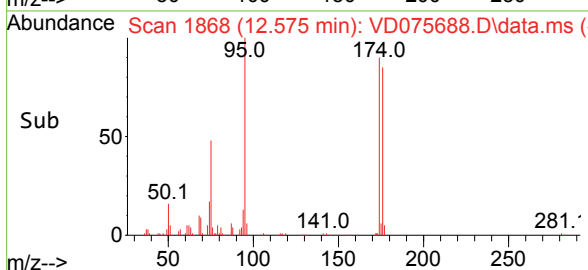
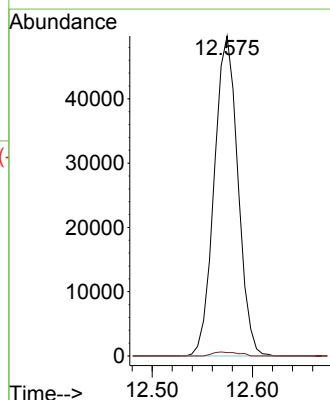
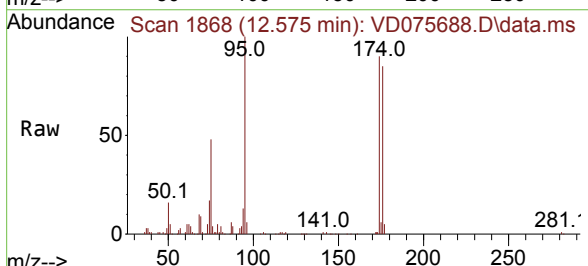
Acq: 14 Apr 2023 19:34

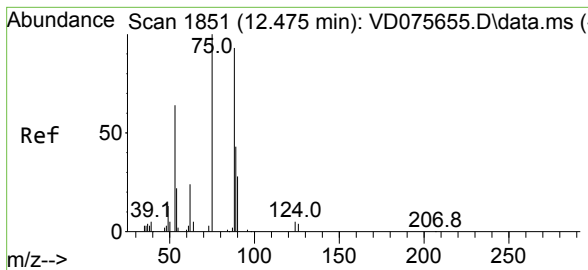
Tgt Ion: 75 Resp: 81598

Ion Ratio Lower Upper

75 100

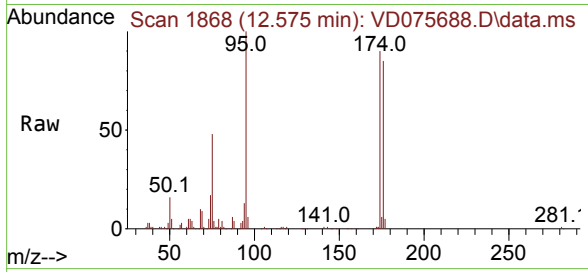
77 1.4 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.179 ug/l
 RT: 12.575 min Scan# 11
 Delta R.T. 0.100 min
 Lab File: VD075688.D
 Acq: 14 Apr 2023 19:34

Instrument :
 MSVOA_D
 ClientSampleId :
 20230224-8-2



Tgt Ion:	75	Resp:	81598
Ion Ratio	Lower	Upper	
75	100		
53	0.0	90.5	135.7#
89	0.0	40.2	60.4#

