

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD101122\
 Data File : VD074517.D
 Acq On : 11 Oct 2022 14:22
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Oct 12 03:08:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101122S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 12 03:06:42 2022
 Response via : Initial Calibration

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

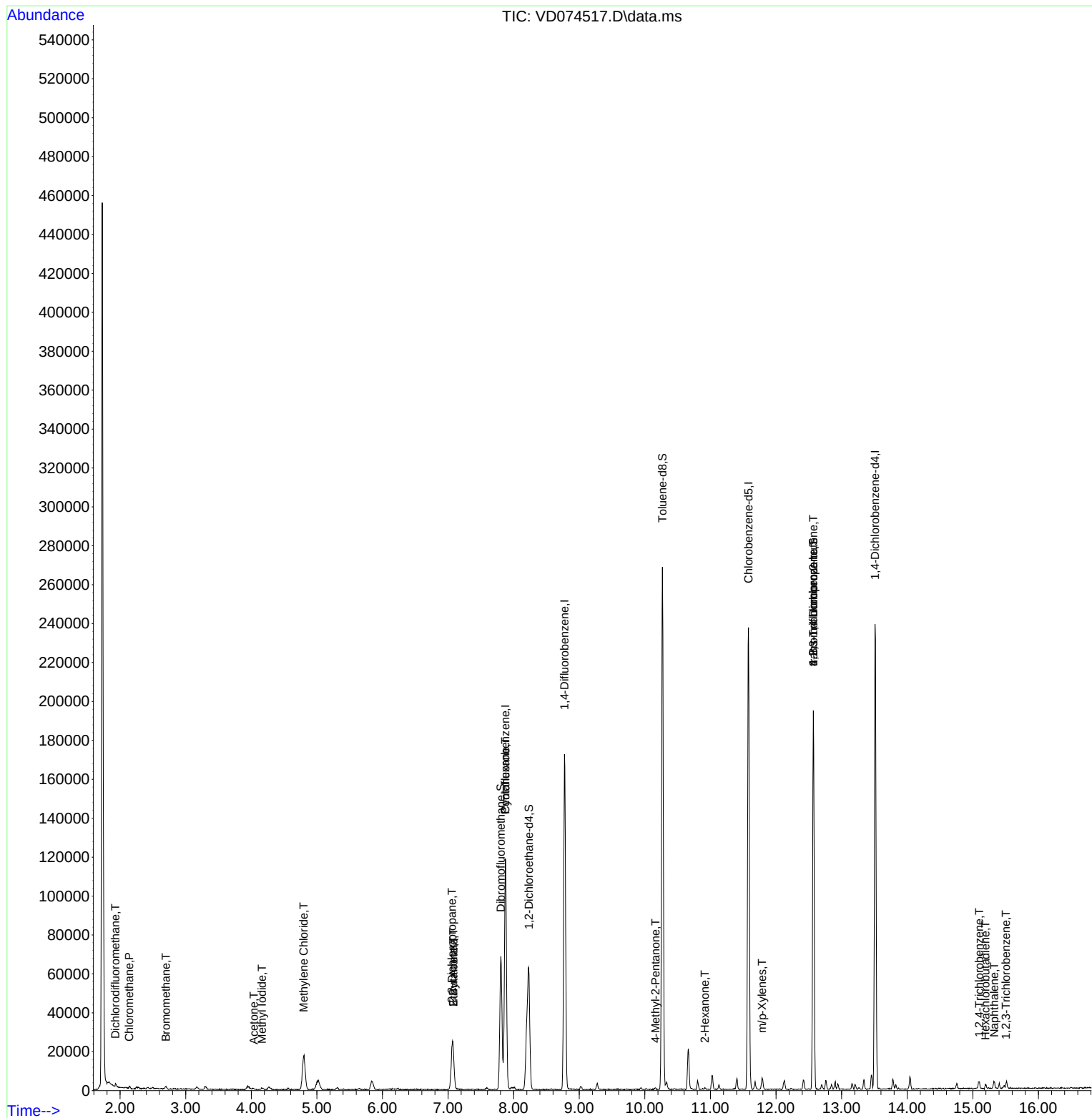
Internal Standards						
1) Pentafluorobenzene	7.875	168	92886	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	165333	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	149595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.510	152	68011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	41978	54.734	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 109.460%	
35) Dibromofluoromethane	7.804	113	48531	51.340	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.680%	
50) Toluene-d8	10.269	98	197243	53.508	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 107.020%	
62) 4-Bromofluorobenzene	12.569	95	56327	51.731	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 103.460%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.928	85	1218	1.359	ug/l	97
3) Chloromethane	2.140	50	1190	1.072	ug/l #	85
5) Bromomethane	2.699	94	1070	1.371	ug/l	81
10) Methyl Iodide	4.164	142	1185	5.979	ug/l #	76
11) Tert butyl alcohol	5.034	59	4689	Below Cal	#	84
16) Acetone	4.040	43	1192	6.682	ug/l #	37
20) Methylene Chloride	4.799	84	15301	5.031	ug/l	95
25) 2-Butanone	7.081	43	1703	7.114	ug/l #	42
26) 2,2-Dichloropropane	7.057	77	2662	1.484	ug/l #	50
31) Cyclohexane	7.875	56	2670	1.581	ug/l #	59
37) Ethyl Acetate	7.081	43	1703	3.304	ug/l #	1
51) 4-Methyl-2-Pentanone	10.163	43	770	1.635	ug/l	98
59) 2-Hexanone	10.916	43	677	2.143	ug/l	93
68) m/p-Xylenes	11.787	106	2350	1.034	ug/l	98
76) 1,2,3-Trichloropropane	12.569	75	28311	55.504	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.569	75	28311	119.885	ug/l #	17
93) 1,2,4-Trichlorobenzene	15.098	180	1907	1.357	ug/l	94
94) Hexachlorobutadiene	15.192	225	772	1.052	ug/l #	73
95) Naphthalene	15.328	128	4421	1.679	ug/l	95
96) 1,2,3-Trichlorobenzene	15.504	180	1697	1.400	ug/l	95

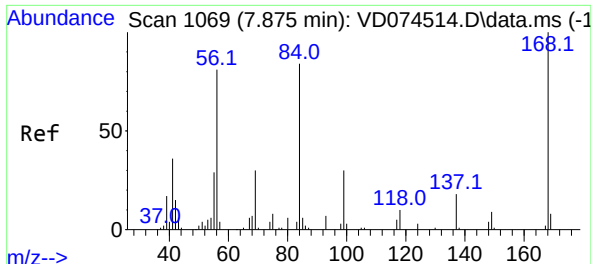
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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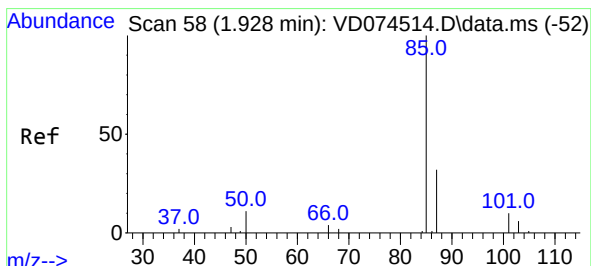
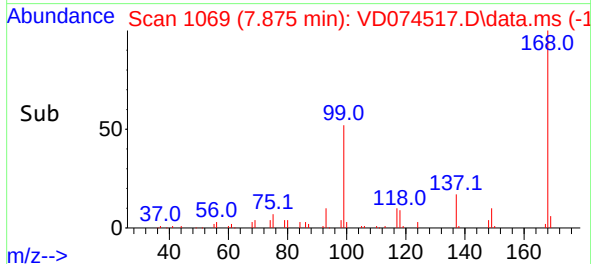
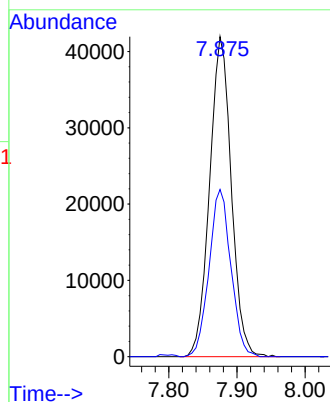
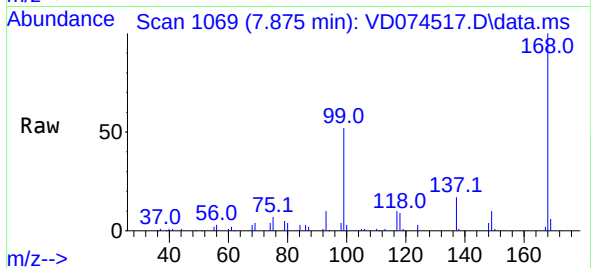




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

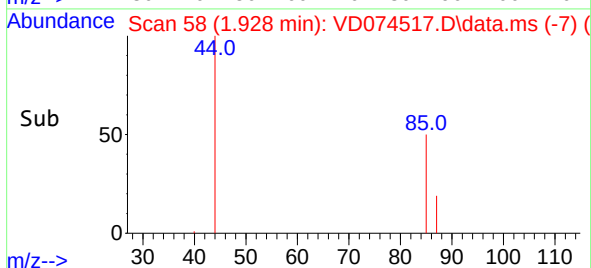
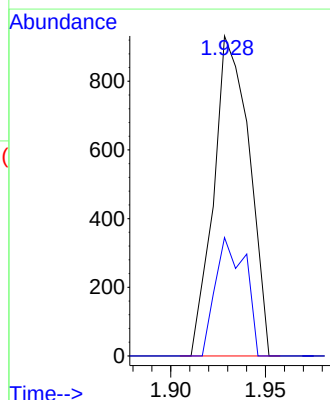
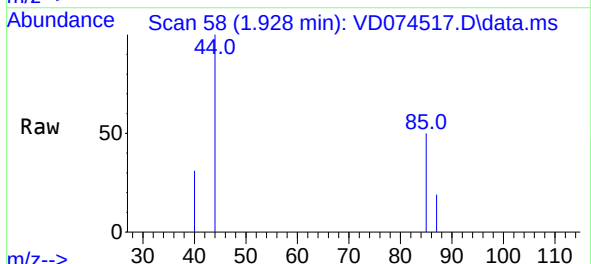
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

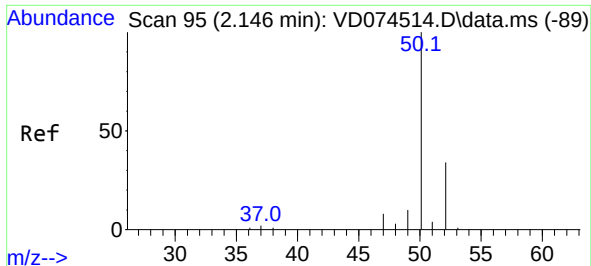
Tgt Ion:168 Resp: 92886
Ion Ratio Lower Upper
168 100
99 52.3 40.9 61.3



#2
Dichlorodifluoromethane
Concen: 1.359 ug/l
RT: 1.928 min Scan# 58
Delta R.T. 0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 85 Resp: 1218
Ion Ratio Lower Upper
85 100
87 37.0 17.5 52.6

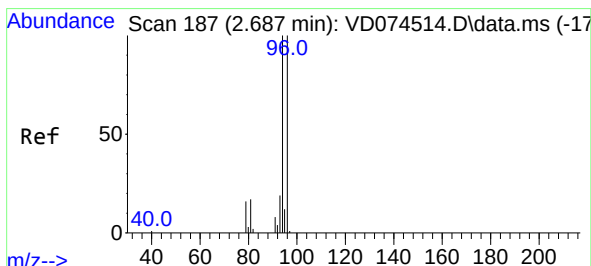
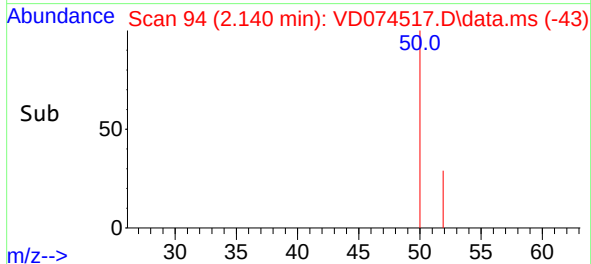
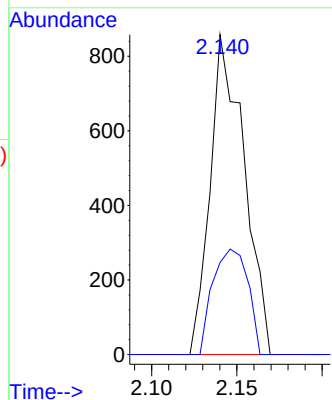
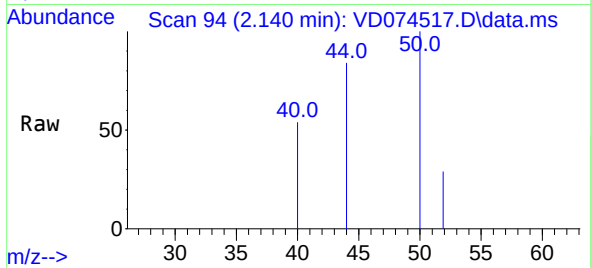




#3
Chloromethane
Concen: 1.072 ug/l
RT: 2.140 min Scan# 94
Delta R.T. 0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

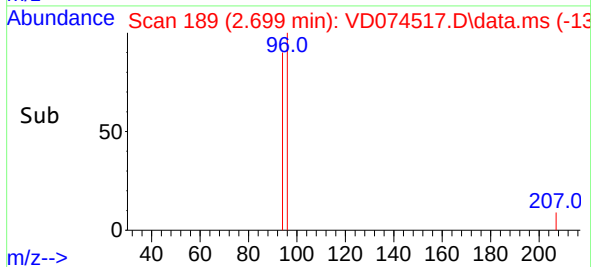
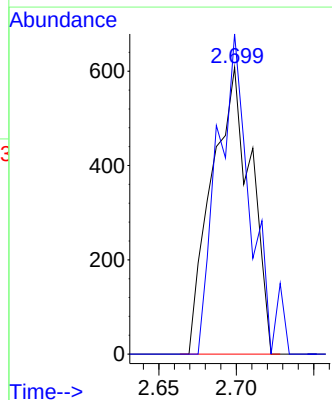
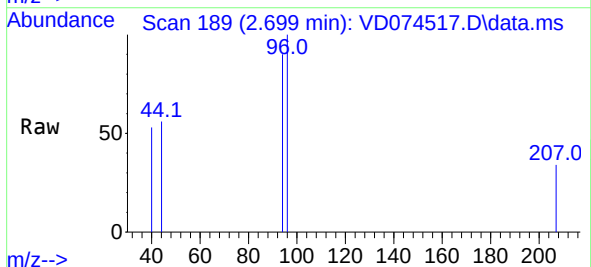
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

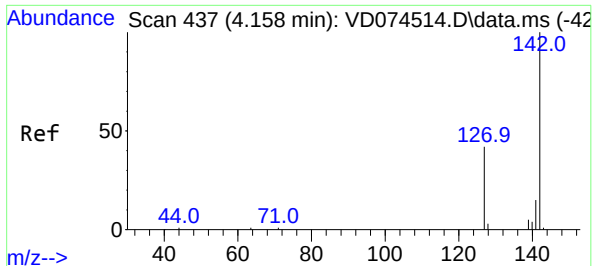
Tgt Ion: 50 Resp: 1190
Ion Ratio Lower Upper
50 100
52 28.8 30.0 45.0#



#5
Bromomethane
Concen: 1.371 ug/l
RT: 2.699 min Scan# 189
Delta R.T. 0.018 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 94 Resp: 1070
Ion Ratio Lower Upper
94 100
96 111.7 74.6 112.0

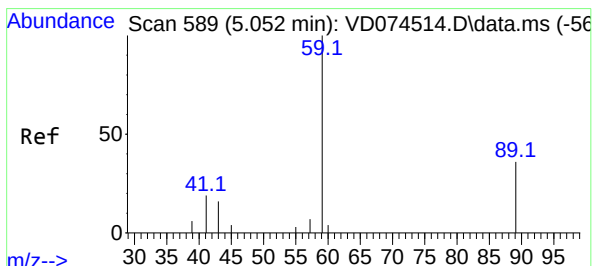
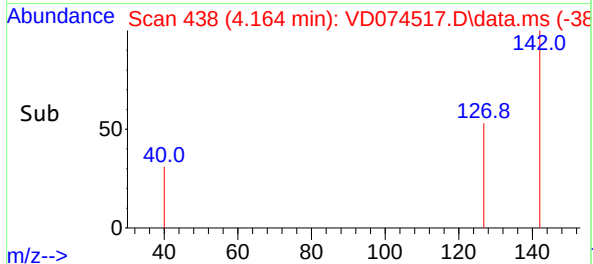
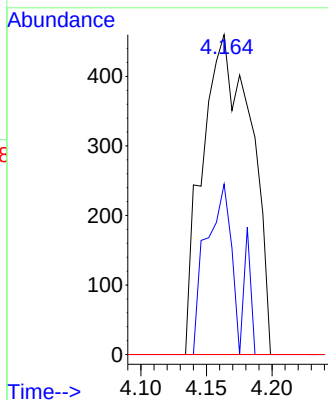
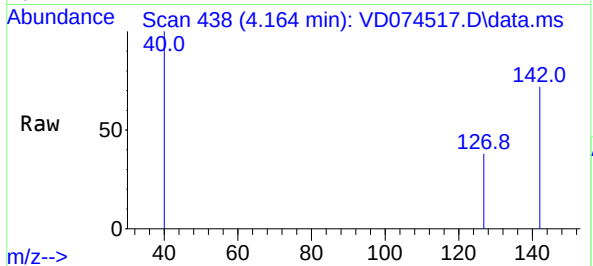




#10
Methyl Iodide
Concen: 5.979 ug/l
RT: 4.164 min Scan# 41
Delta R.T. 0.005 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

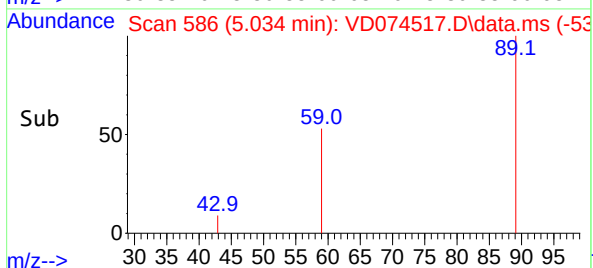
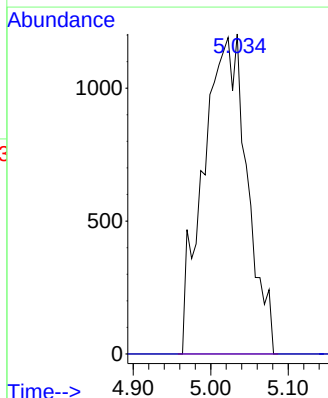
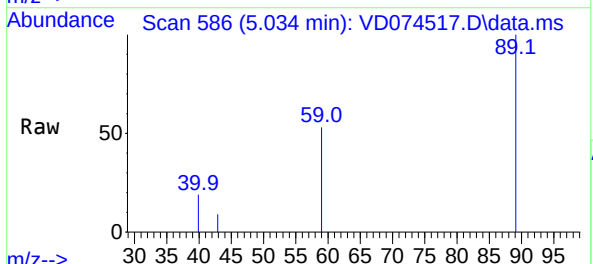
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

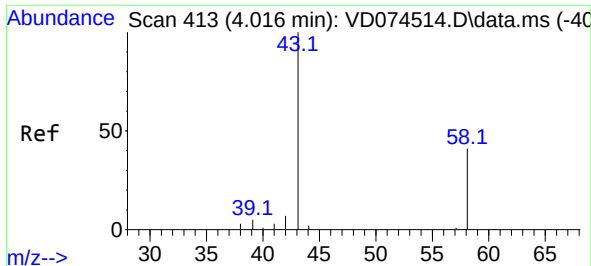
Tgt Ion:142 Resp: 1185
Ion Ratio Lower Upper
142 100
127 27.4 31.9 47.9#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.034 min Scan# 586
Delta R.T. -0.018 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 59 Resp: 4689
Ion Ratio Lower Upper
59 100
57 0.0 4.4 6.6#

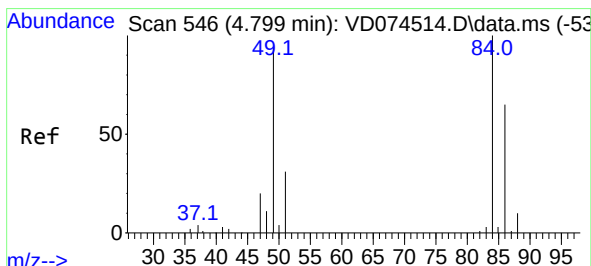
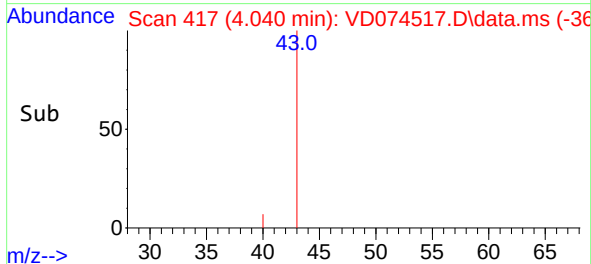
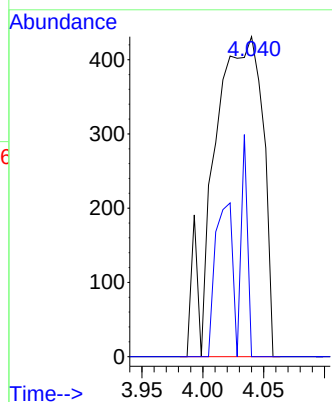
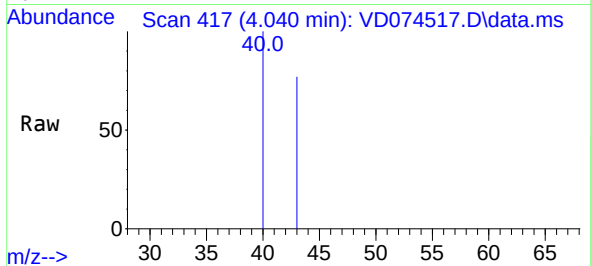




#16
Acetone
Concen: 6.682 ug/l
RT: 4.040 min Scan# 41
Delta R.T. 0.018 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

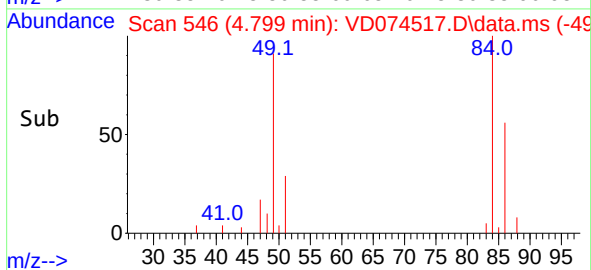
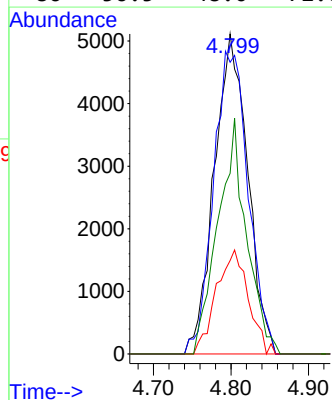
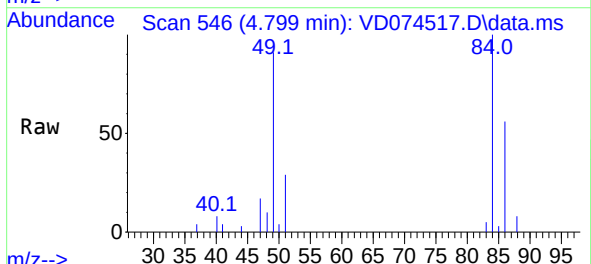
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

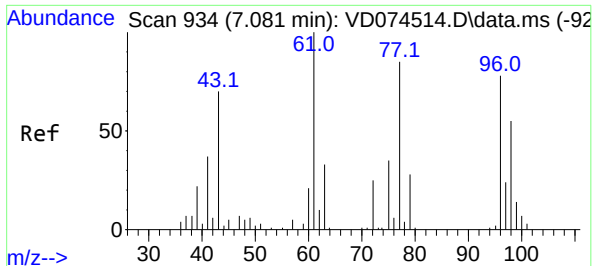
Tgt Ion: 43 Resp: 1192
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#



#20
Methylene Chloride
Concen: 5.031 ug/l
RT: 4.799 min Scan# 546
Delta R.T. -0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 84 Resp: 15301
Ion Ratio Lower Upper
84 100
49 91.1 68.0 102.0
51 29.2 23.2 34.8
86 56.5 48.0 72.0





#25

2-Butanone

Concen: 7.114 ug/l

RT: 7.081 min Scan# 91

Delta R.T. 0.000 min

Lab File: VD074517.D

Acq: 11 Oct 2022 14:22

Instrument :

MSVOA_D

ClientSampleId :

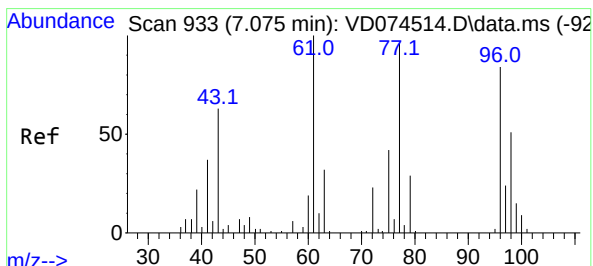
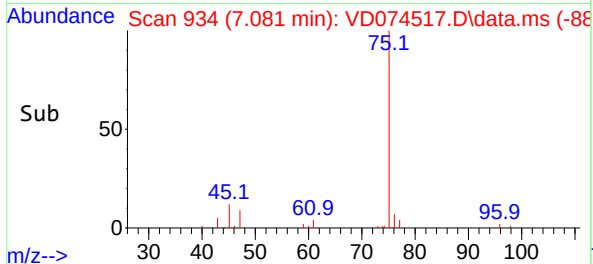
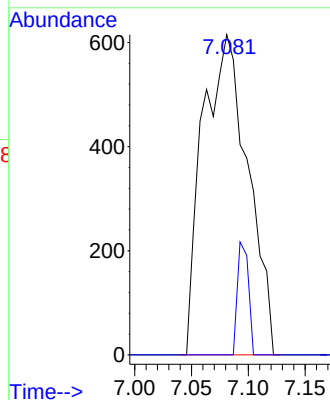
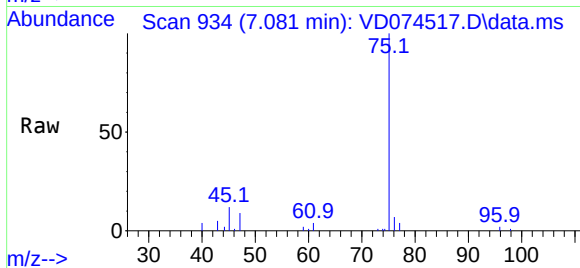
VIBLK

Tgt Ion: 43 Resp: 1703

Ion Ratio Lower Upper

43 100

72 0.0 25.8 38.8#



#26

2,2-Dichloropropane

Concen: 1.484 ug/l

RT: 7.057 min Scan# 930

Delta R.T. -0.018 min

Lab File: VD074517.D

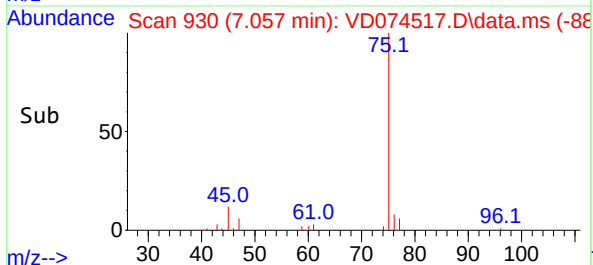
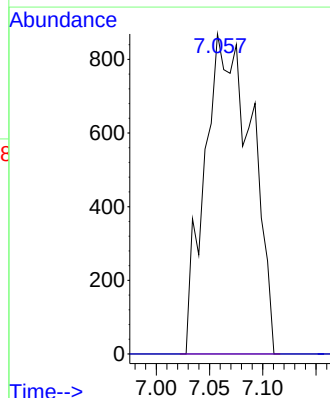
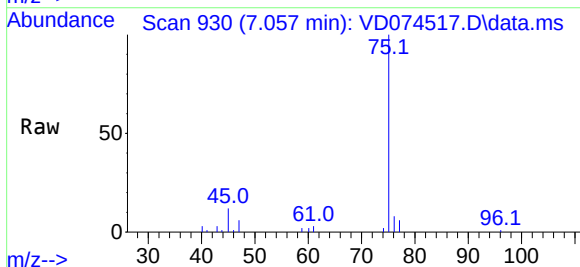
Acq: 11 Oct 2022 14:22

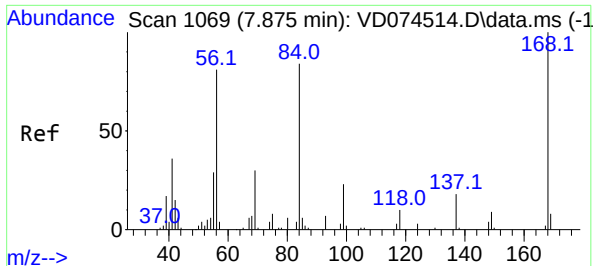
Tgt Ion: 77 Resp: 2662

Ion Ratio Lower Upper

77 100

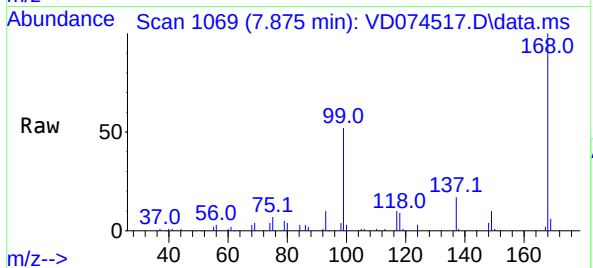
97 0.0 12.5 37.5#



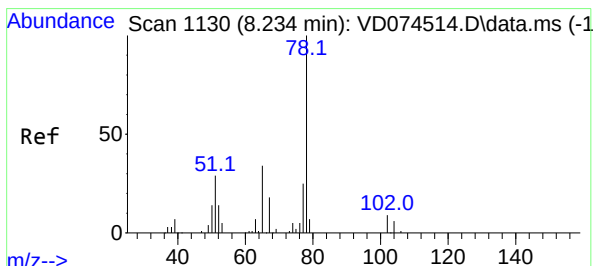
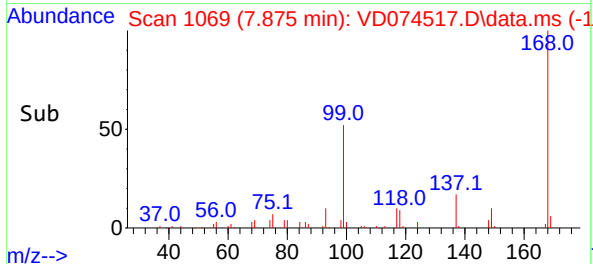
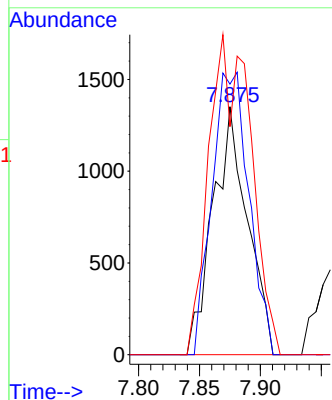


#31
Cyclohexane
Concen: 1.581 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

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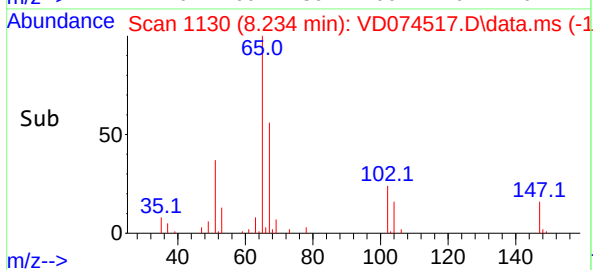
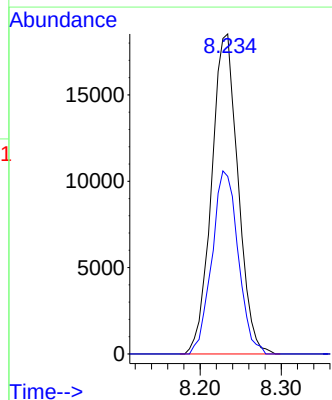
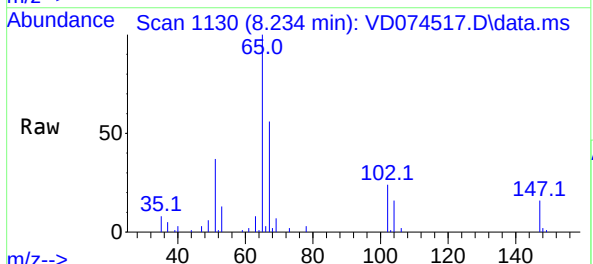


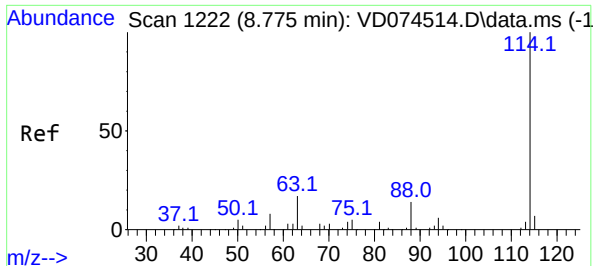
Tgt Ion: 56 Resp: 2670
Ion Ratio Lower Upper
56 100
69 109.1 29.2 43.8#
84 91.9 83.4 125.2



#33
1,2-Dichloroethane-d4
Concen: 54.734 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 65 Resp: 41978
Ion Ratio Lower Upper
65 100
67 56.6 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD074517.D

Acq: 11 Oct 2022 14:22

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

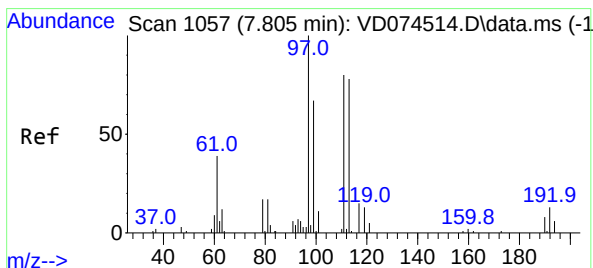
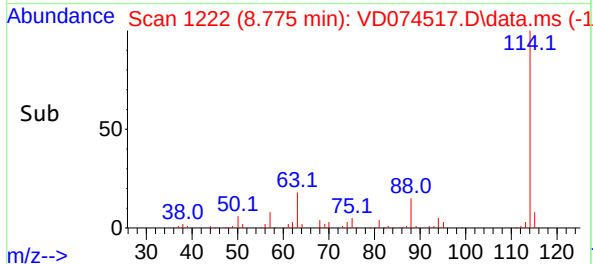
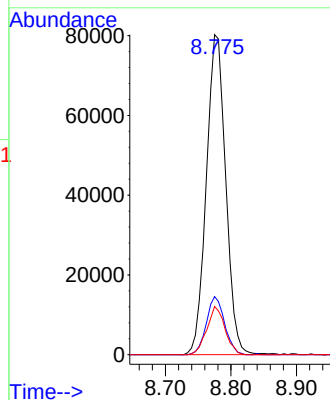
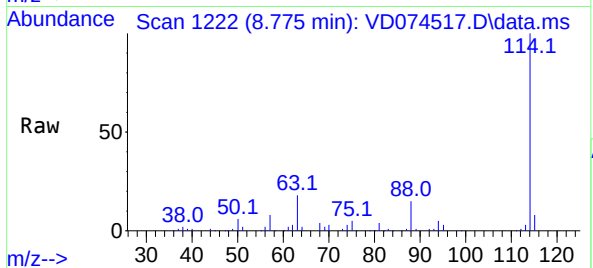
Tgt Ion:114 Resp: 165333

Ion Ratio Lower Upper

114 100

63 18.2 0.0 33.2

88 15.1 0.0 28.2



#35

Dibromofluoromethane

Concen: 51.340 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD074517.D

Acq: 11 Oct 2022 14:22

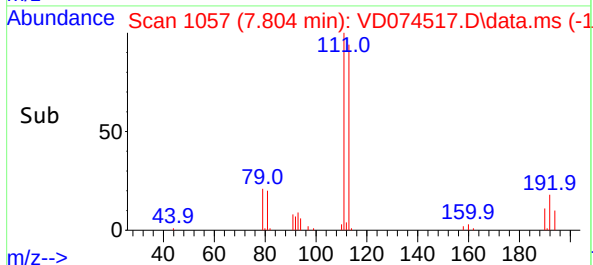
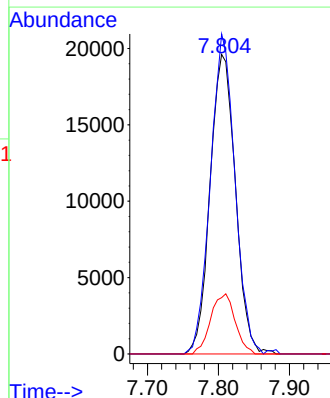
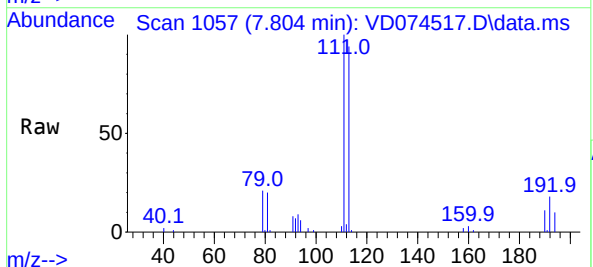
Tgt Ion:113 Resp: 48531

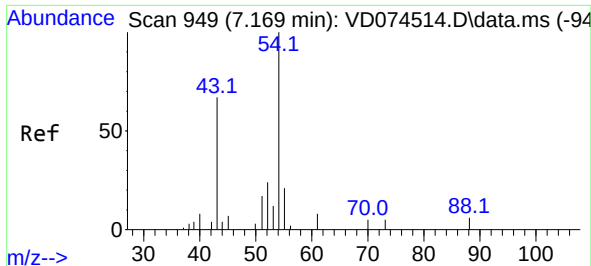
Ion Ratio Lower Upper

113 100

111 103.3 82.3 123.5

192 19.4 16.4 24.6





#37

Ethyl Acetate

Concen: 3.304 ug/l

RT: 7.081 min Scan# 91

Delta R.T. -0.088 min

Lab File: VD074517.D

Acq: 11 Oct 2022 14:22

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

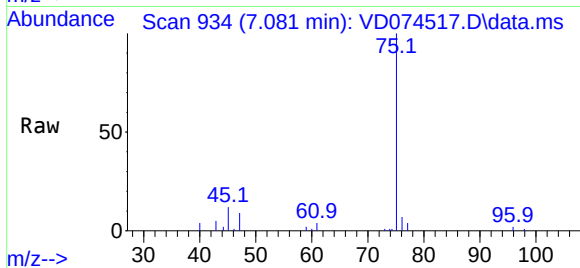
Tgt Ion: 43 Resp: 1703

Ion Ratio Lower Upper

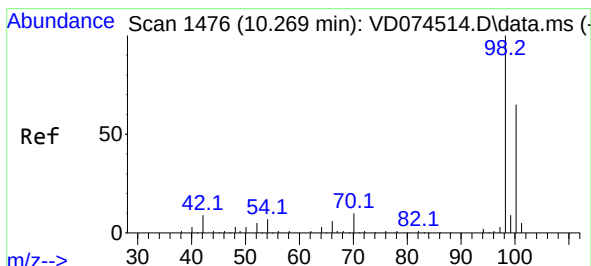
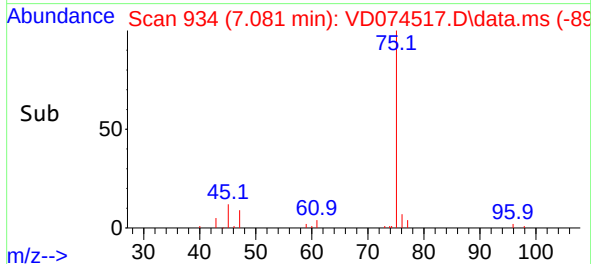
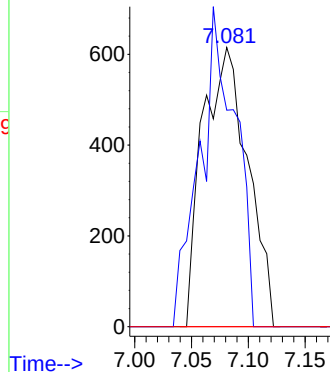
43 100

61 90.4 12.2 18.4#

70 0.0 9.6 14.4#



Abundance



#50

Toluene-d8

Concen: 53.508 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD074517.D

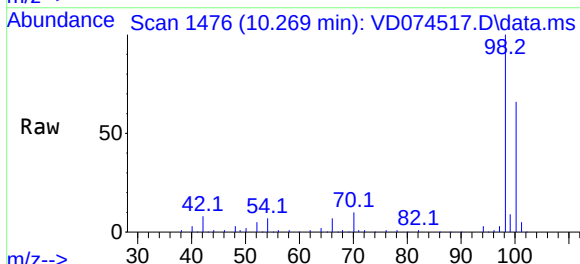
Acq: 11 Oct 2022 14:22

Tgt Ion: 98 Resp: 197243

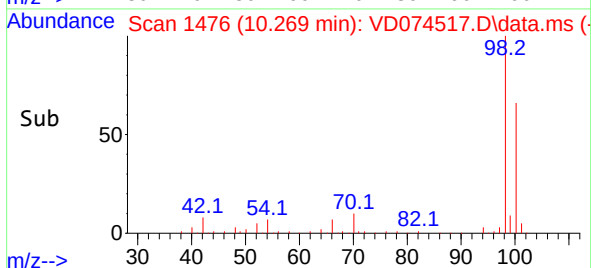
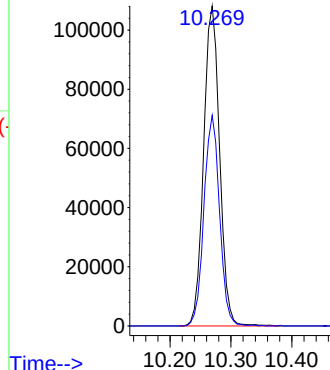
Ion Ratio Lower Upper

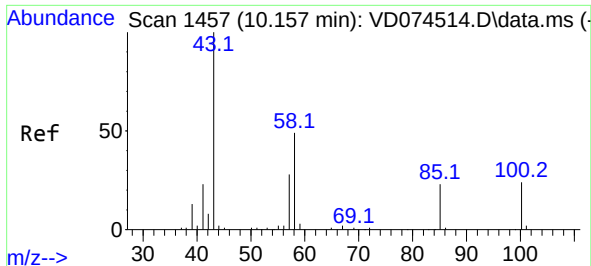
98 100

100 64.5 51.4 77.0



Abundance





#51

4-Methyl-2-Pentanone

Concen: 1.635 ug/l

RT: 10.163 min Scan# 1457

Delta R.T. 0.006 min

Lab File: VD074517.D

Acq: 11 Oct 2022 14:22

Instrument :

MSVOA_D

ClientSampleId :

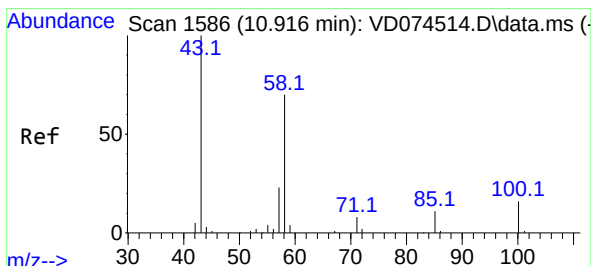
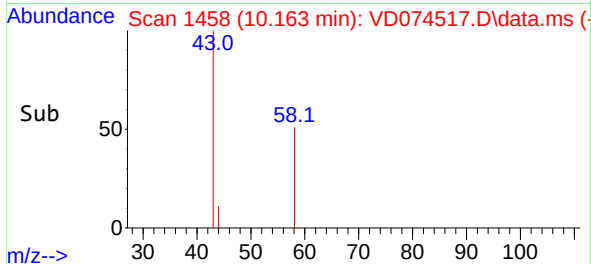
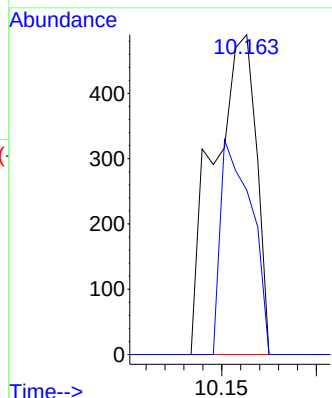
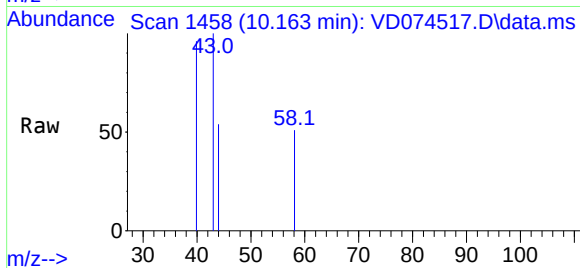
VIBLK

Tgt Ion: 43 Resp: 770

Ion Ratio Lower Upper

43 100

58 48.4 37.8 56.6



#59

2-Hexanone

Concen: 2.143 ug/l

RT: 10.916 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VD074517.D

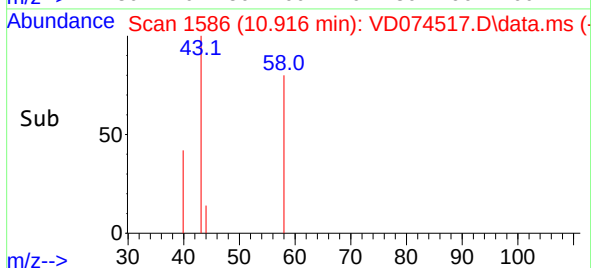
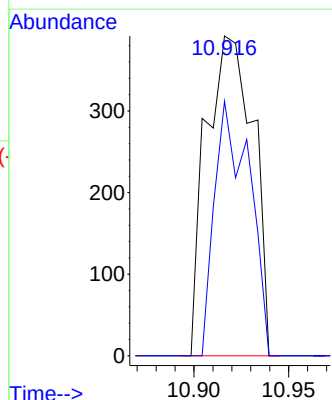
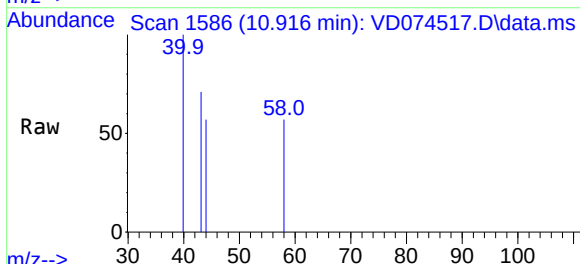
Acq: 11 Oct 2022 14:22

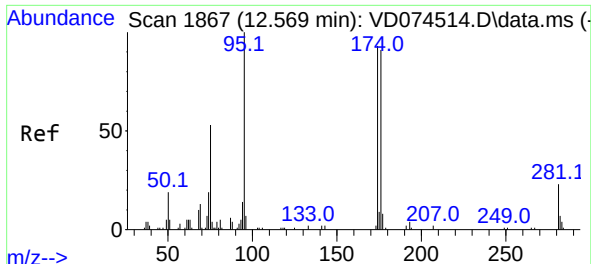
Tgt Ion: 43 Resp: 677

Ion Ratio Lower Upper

43 100

58 58.8 32.0 96.2

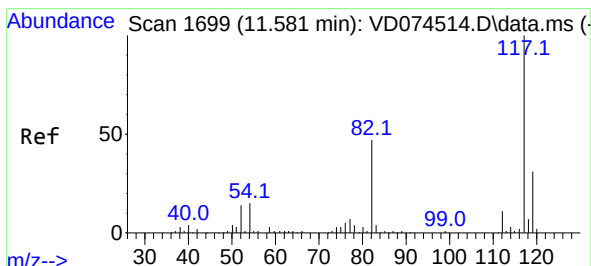
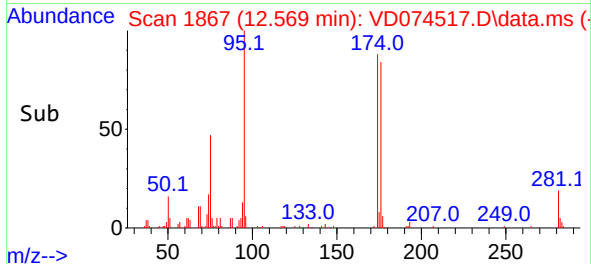
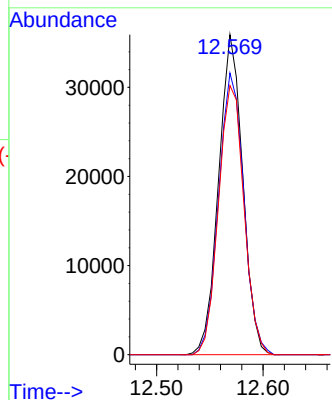
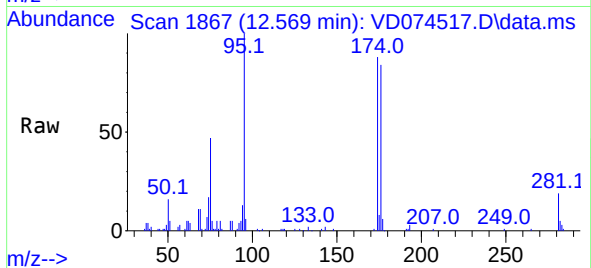




#62
4-Bromofluorobenzene
Concen: 51.731 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

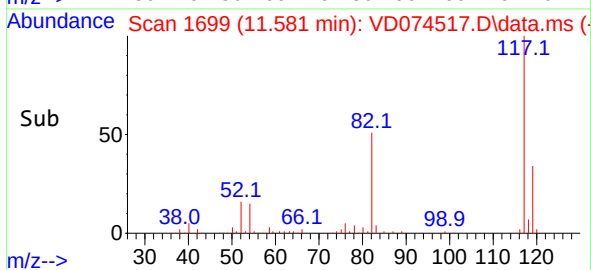
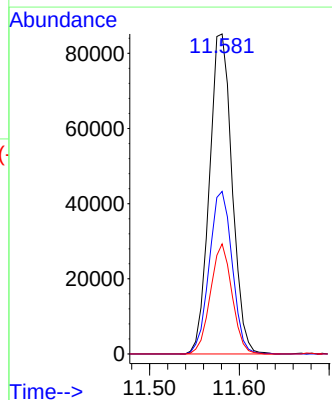
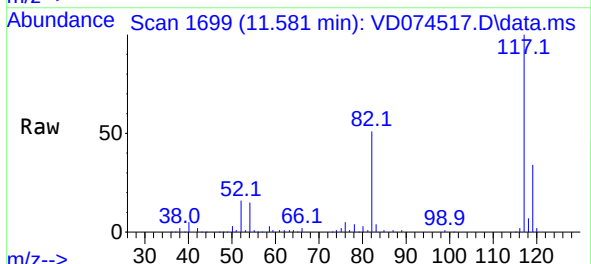
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

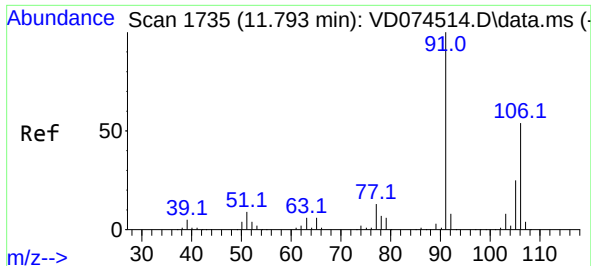
Tgt Ion: 95 Resp: 56327
Ion Ratio Lower Upper
95 100
174 91.9 0.0 197.0
176 88.8 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 117 Resp: 149595
Ion Ratio Lower Upper
117 100
82 50.8 41.6 62.4
119 34.4 25.2 37.8

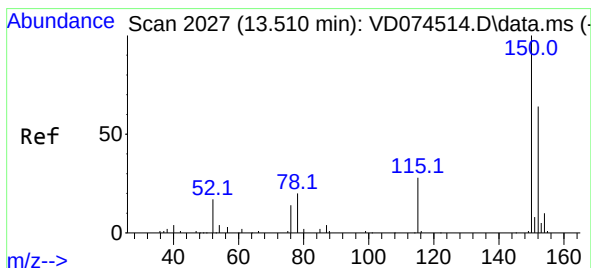
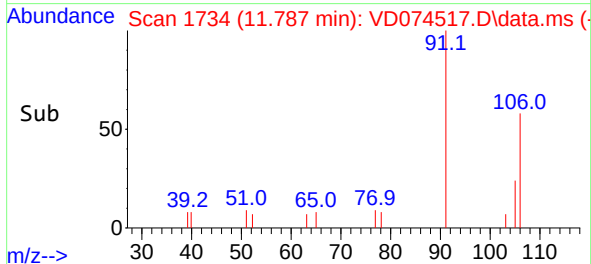
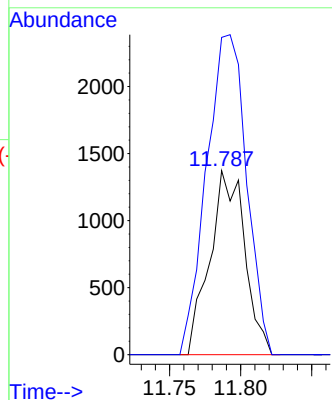
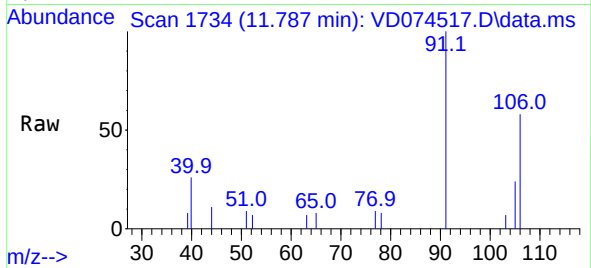




#68
m/p-Xylenes
Concen: 1.034 ug/l
RT: 11.787 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

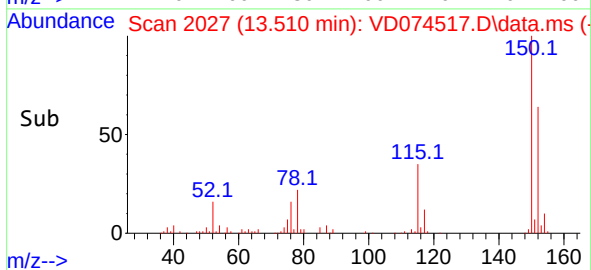
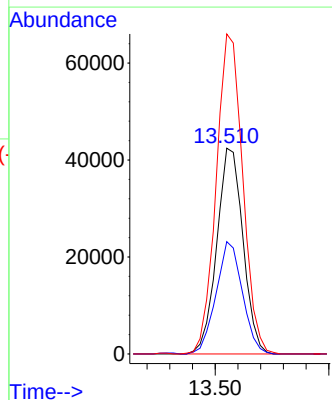
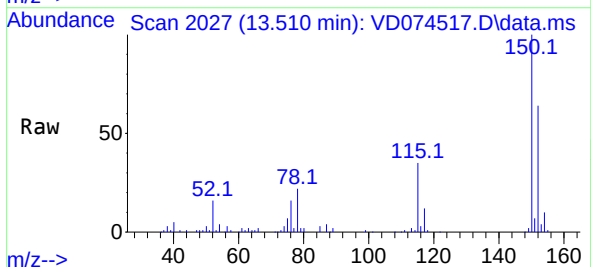
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

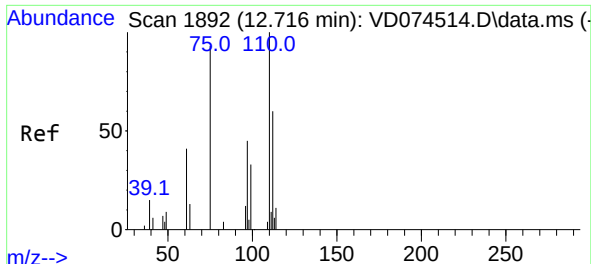
Tgt Ion:106 Resp: 2350
Ion Ratio Lower Upper
106 100
91 198.7 156.2 234.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.510 min Scan# 2027
Delta R.T. 0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion:152 Resp: 68011
Ion Ratio Lower Upper
152 100
115 54.8 26.8 80.4
150 157.5 0.0 348.2

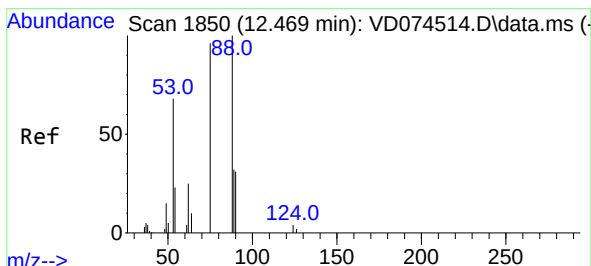
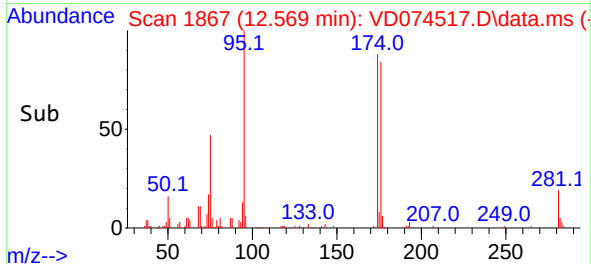
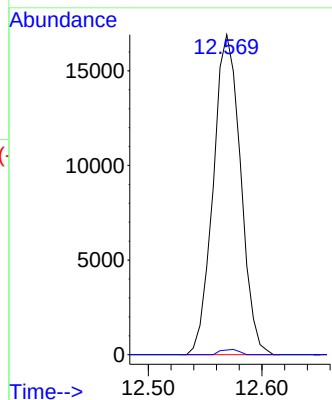
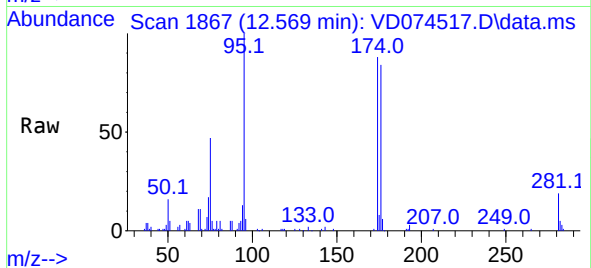




#76
1,2,3-Trichloropropane
Concen: 55.504 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.147 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

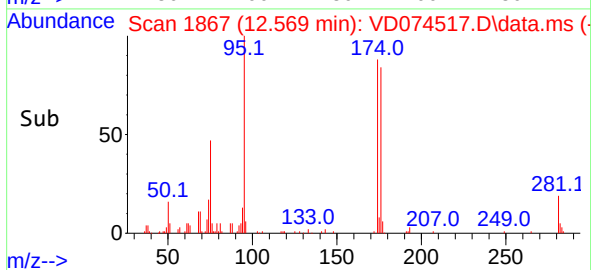
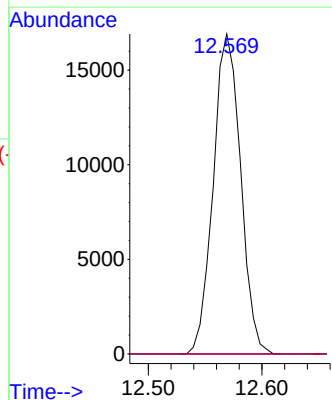
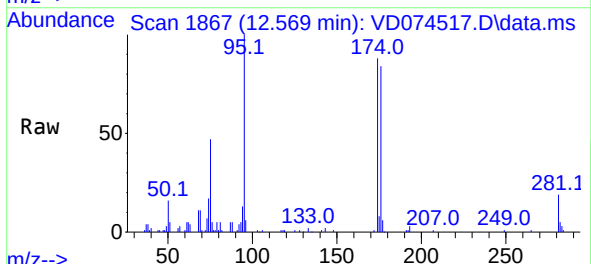
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

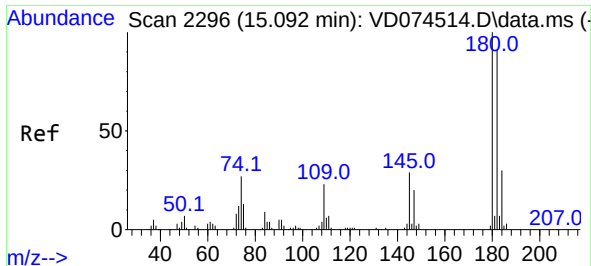
Tgt Ion: 75 Resp: 28311
Ion Ratio Lower Upper
75 100
77 1.1 185.8 557.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 119.885 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.106 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion: 75 Resp: 28311
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.6#
89 0.0 38.2 57.4#



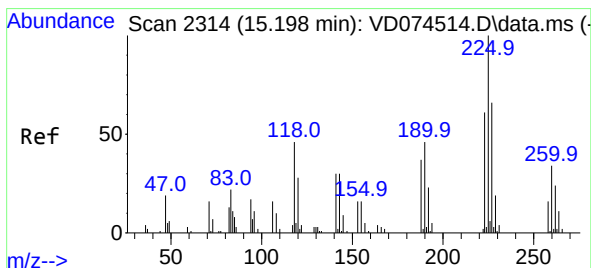
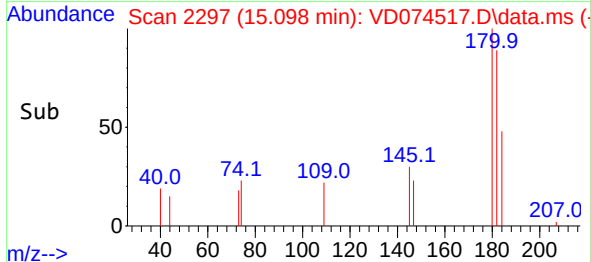
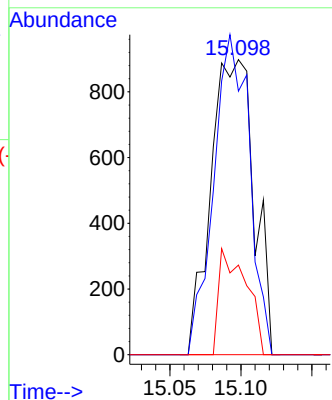
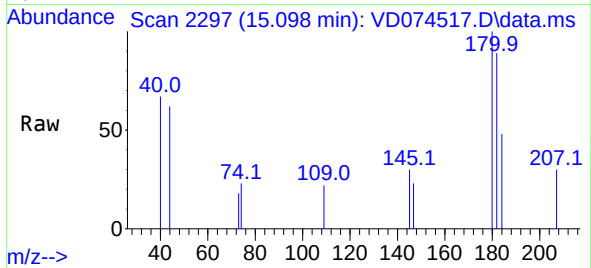


#93
 1,2,4-Trichlorobenzene
 Concen: 1.357 ug/l
 RT: 15.098 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VD074517.D
 Acq: 11 Oct 2022 14:22

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Tgt Ion:180 Resp: 1907

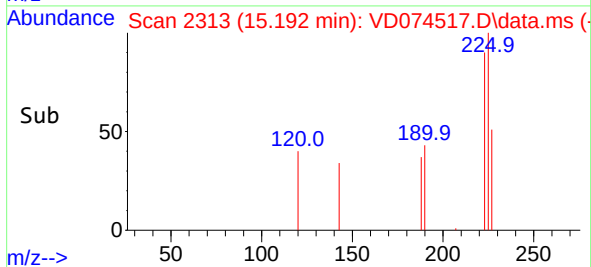
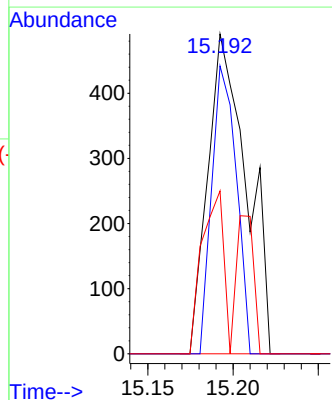
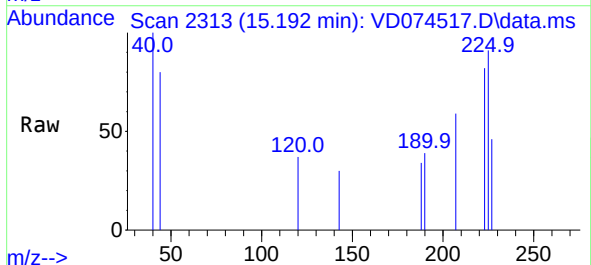
Ion	Ratio	Lower	Upper
180	100		
182	89.5	46.9	140.6
145	22.8	14.1	42.3

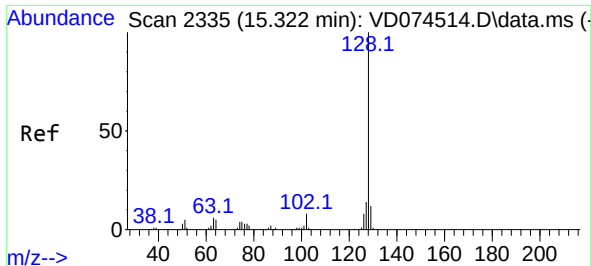


#94
 Hexachlorobutadiene
 Concen: 1.052 ug/l
 RT: 15.192 min Scan# 2313
 Delta R.T. -0.006 min
 Lab File: VD074517.D
 Acq: 11 Oct 2022 14:22

Tgt Ion:225 Resp: 772

Ion	Ratio	Lower	Upper
225	100		
223	57.3	31.9	95.5
227	28.6	32.6	97.8#

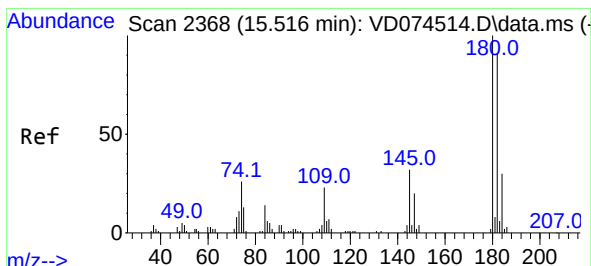
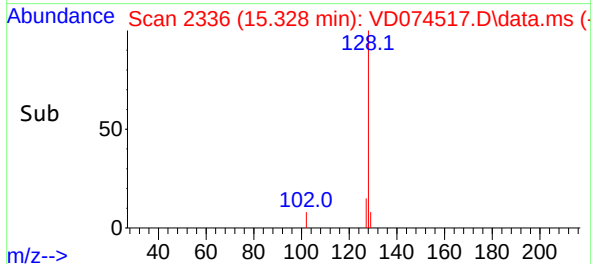
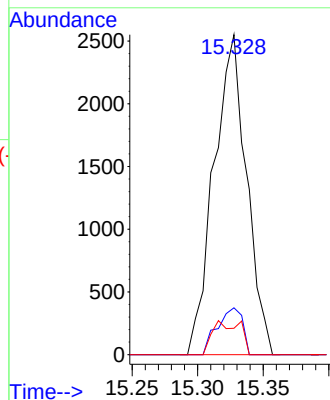
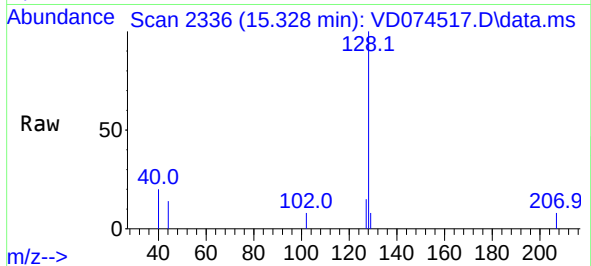




#95
Naphthalene
Concen: 1.679 ug/l
RT: 15.328 min Scan# 2335
Delta R.T. -0.000 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tgt Ion:	128	Resp:	4421
Ion	Ratio	Lower	Upper
128	100		
127	11.3	10.6	16.0
129	8.9	8.3	12.5



#96
1,2,3-Trichlorobenzene
Concen: 1.400 ug/l
RT: 15.504 min Scan# 2366
Delta R.T. -0.012 min
Lab File: VD074517.D
Acq: 11 Oct 2022 14:22

Tgt Ion:	180	Resp:	1697
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.7	140.1
145	18.9	14.9	44.7

