

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD082923\
 Data File : VD077059.D
 Acq On : 29 Aug 2023 13:55
 Operator : JC/SY
 Sample : 04177-01
 Misc : 5.08G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 29 20:59:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D082823S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 29 02:15:23 2023
 Response via : Initial Calibration

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

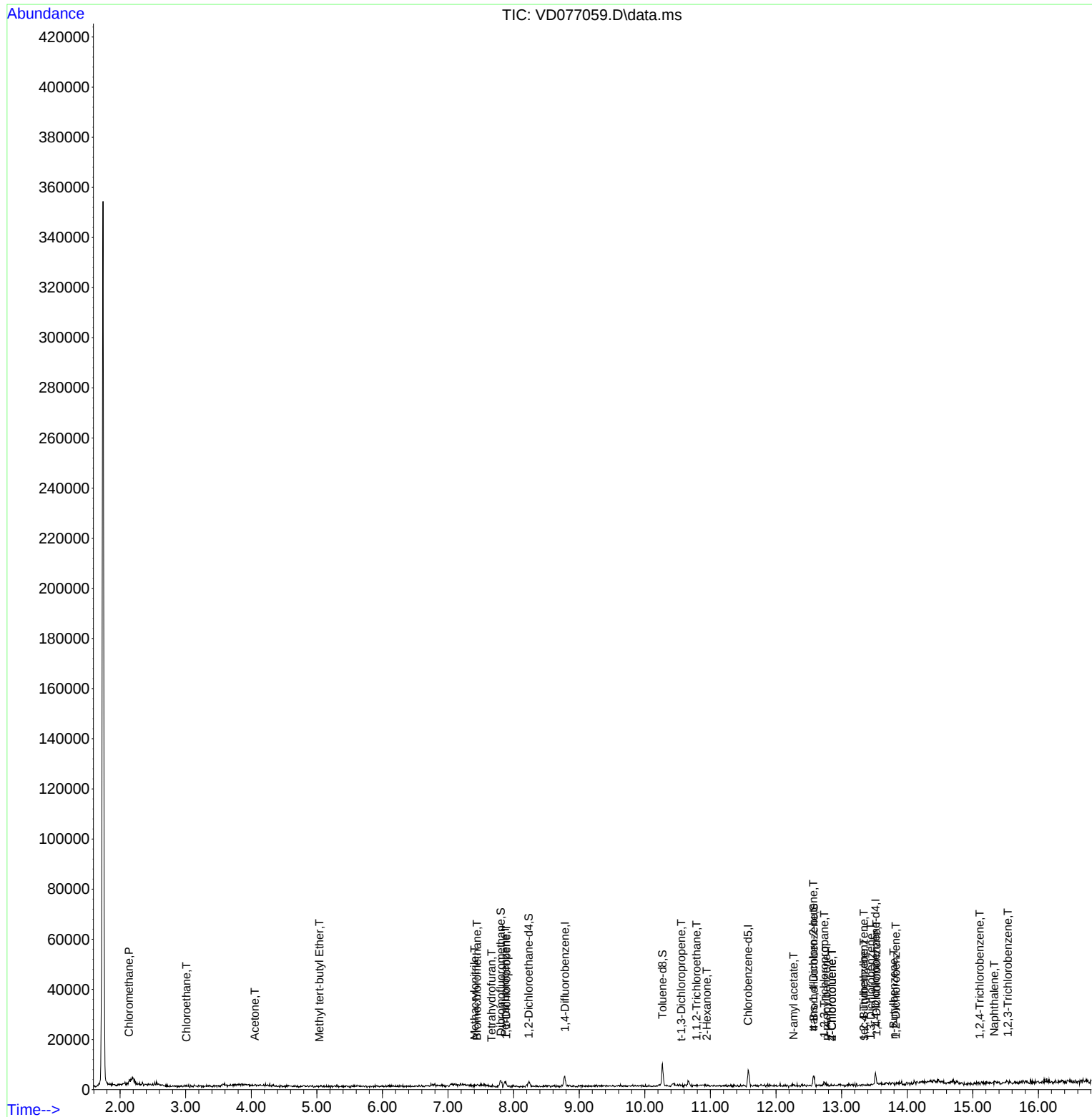
Internal Standards						
1) Pentafluorobenzene	7.869	168	2269	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	4754	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.575	117	4174	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	1268	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	1795	80.350	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 160.700%	
35) Dibromofluoromethane	7.805	113	1791	56.392	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 112.780%	
50) Toluene-d8	10.269	98	6451	56.145	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 112.300%	
62) 4-Bromofluorobenzene	12.575	95	1546	45.637	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 91.280%	
Target Compounds						Qvalue
3) Chloromethane	2.134	50	250	3.896	ug/l	# 41
6) Chloroethane	3.011	64	158	5.016	ug/l	# 43
16) Acetone	4.052	43	64	12.569	ug/l	# 32
19) Methyl tert-butyl Ether	5.040	73	54	1.024	ug/l	# 55
28) Bromochloromethane	7.440	49	55	3.414	ug/l	# 1
29) Tetrahydrofuran	7.663	42	55	15.520	ug/l	# 23
36) 1,1-Dichloropropene	7.887	75	54	1.194	ug/l	# 39
41) Methacrylonitrile	7.405	41	58	6.446	ug/l	# 17
53) t-1,3-Dichloropropene	10.557	75	57	1.290	ug/l	# 1
55) 1,1,2-Trichloroethane	10.787	97	94	3.461	ug/l	# 16
59) 2-Hexanone	10.946	43	66	5.765	ug/l	# 16
74) N-amyl acetate	12.269	43	54	3.465	ug/l	# 35
76) 1,2,3-Trichloropropane	12.734	75	62	5.069	ug/l	# 100
78) n-propylbenzene	12.763	91	158	1.461	ug/l	# 50
79) 2-Chlorotoluene	12.851	91	88	1.488	ug/l	# 36
81) trans-1,4-Dichloro-2-b...	12.569	75	628	119.221	ug/l	# 17
82) 4-Chlorotoluene	12.851	91	88	1.407	ug/l	# 36
84) 1,2,4-Trimethylbenzene	13.340	105	157	2.119	ug/l	# 28
85) sec-Butylbenzene	13.340	105	157	1.628	ug/l	# 54
87) 1,3-Dichlorobenzene	13.446	146	66	1.427	ug/l	# 25
88) 1,4-Dichlorobenzene	13.534	146	131	2.920	ug/l	# 26
89) n-Butylbenzene	13.793	91	309	4.091	ug/l	# 59
91) 1,2-Dichlorobenzene	13.828	146	55	1.396	ug/l	# 26
93) 1,2,4-Trichlorobenzene	15.104	180	109	4.497	ug/l	# 11
95) Naphthalene	15.328	128	436	9.699	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.534	180	177	8.153	ug/l	# 13

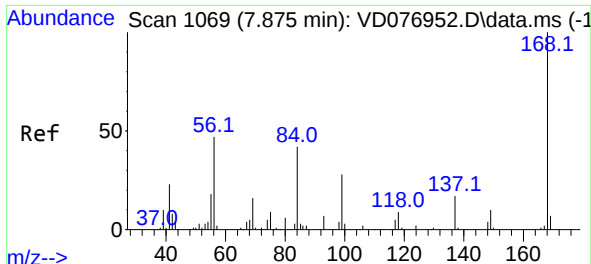
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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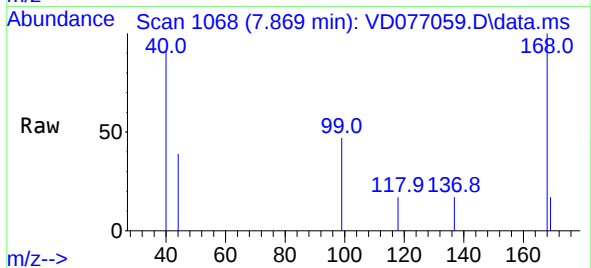
Quant Time: Aug 29 20:59:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D082823S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 29 02:15:23 2023
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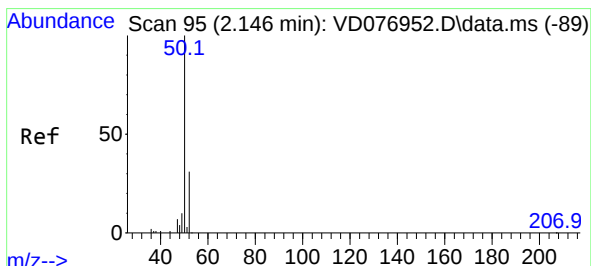
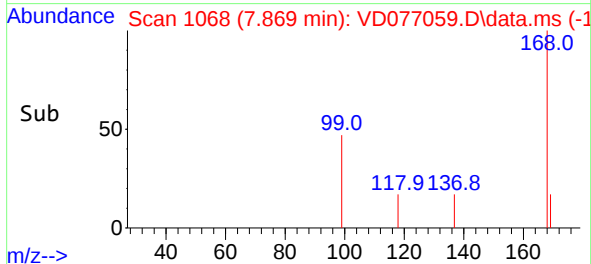
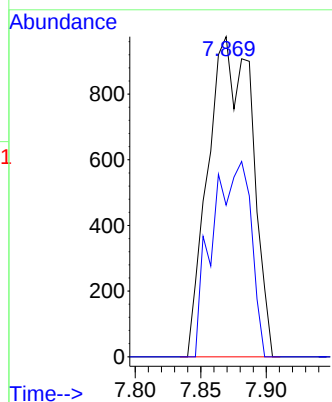


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.869 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Instrument :
MSVOA_D
ClientSampleId :

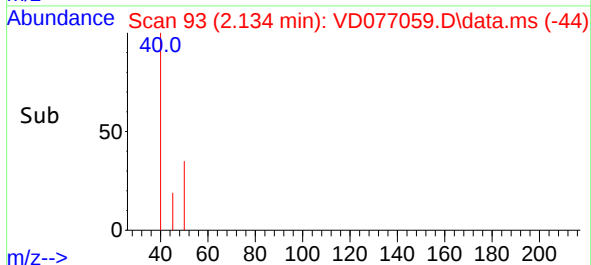
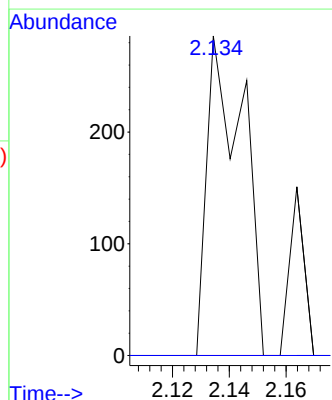
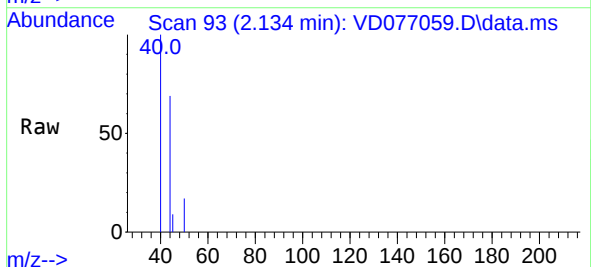


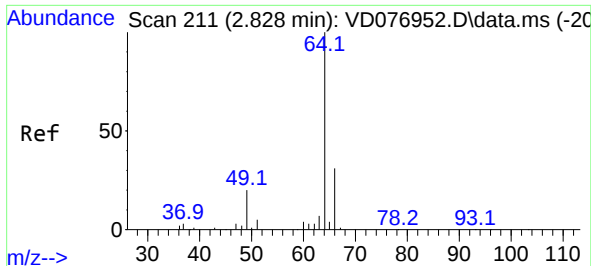
Tgt Ion:168 Resp: 2269
Ion Ratio Lower Upper
168 100
99 47.4 36.7 55.1



#3
Chloromethane
Concen: 3.896 ug/l
RT: 2.134 min Scan# 93
Delta R.T. -0.012 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 50 Resp: 250
Ion Ratio Lower Upper
50 100
52 0.0 26.6 40.0#

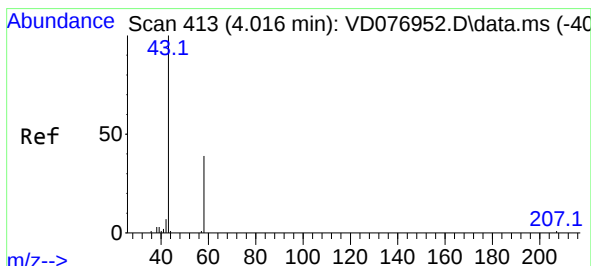
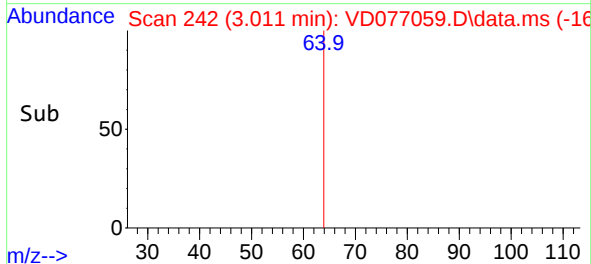
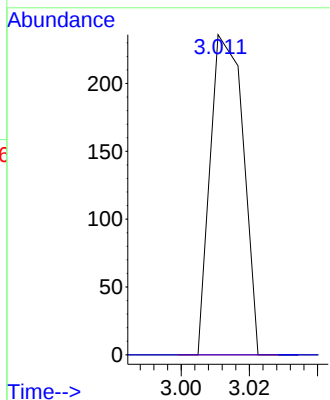
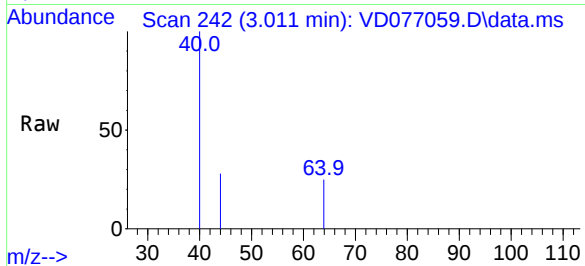




#6
Chloroethane
Concen: 5.016 ug/l
RT: 3.011 min Scan# 242
Delta R.T. 0.183 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

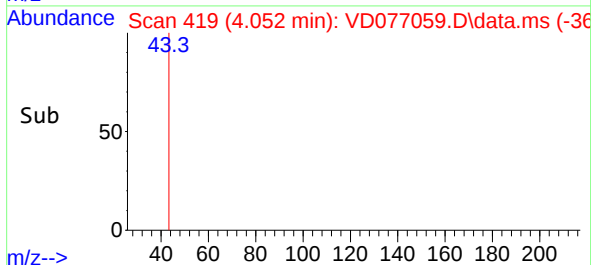
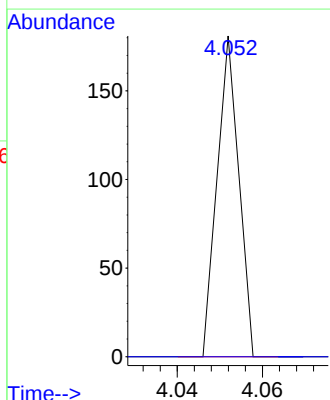
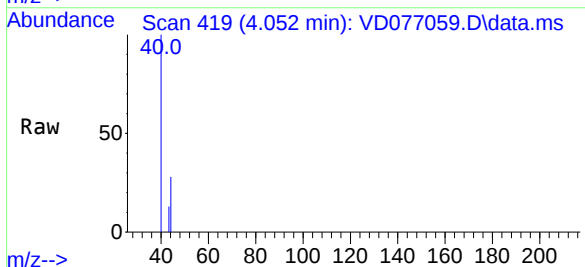
Instrument :
MSVOA_D
ClientSampleId :

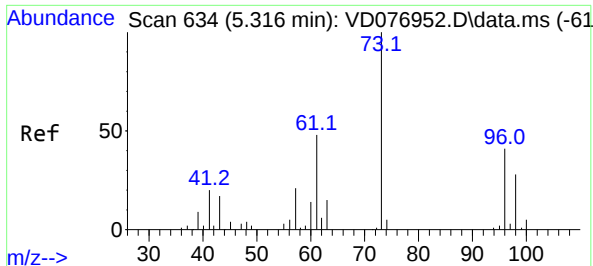
Tgt Ion: 64 Resp: 158
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#16
Acetone
Concen: 12.569 ug/l
RT: 4.052 min Scan# 419
Delta R.T. 0.036 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#





#19

Methyl tert-butyl Ether

Concen: 1.024 ug/l

RT: 5.040 min Scan# 51

Delta R.T. -0.276 min

Lab File: VD077059.D

Acq: 29 Aug 2023 13:55

Instrument :

MSVOA_D

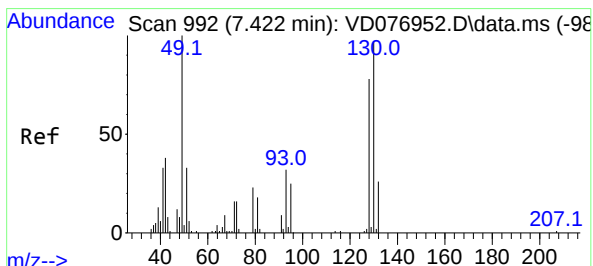
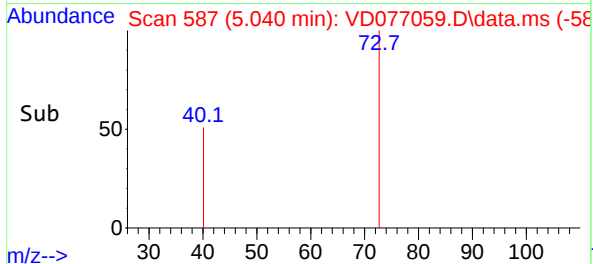
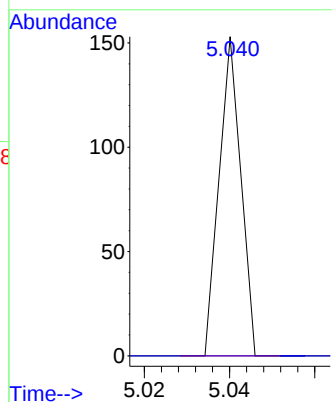
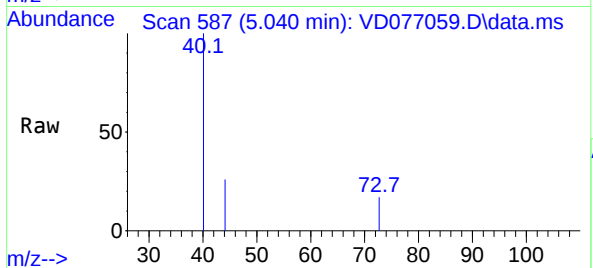
ClientSampleId :

Tgt Ion: 73 Resp: 54

Ion Ratio Lower Upper

73 100

57 0.0 16.6 25.0#



#28

Bromochloromethane

Concen: 3.414 ug/l

RT: 7.440 min Scan# 995

Delta R.T. 0.018 min

Lab File: VD077059.D

Acq: 29 Aug 2023 13:55

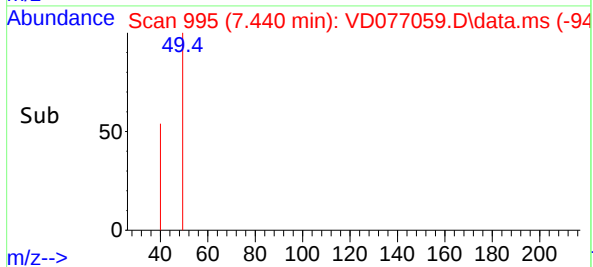
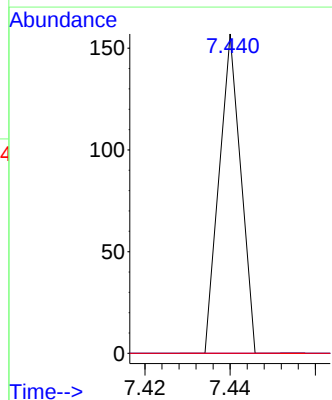
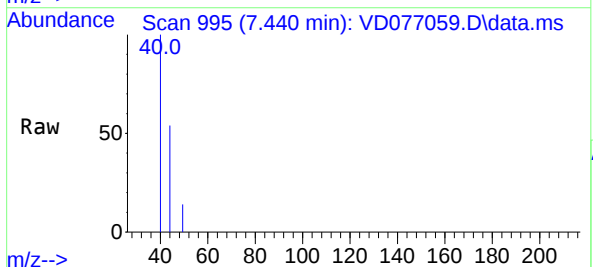
Tgt Ion: 49 Resp: 55

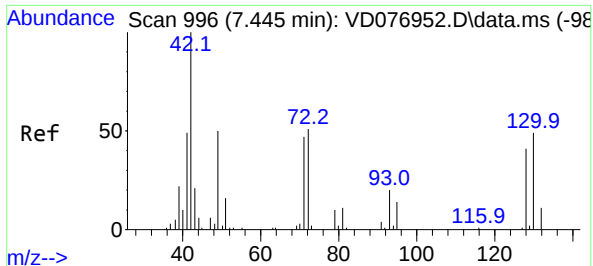
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.0

130 0.0 83.2 124.8#

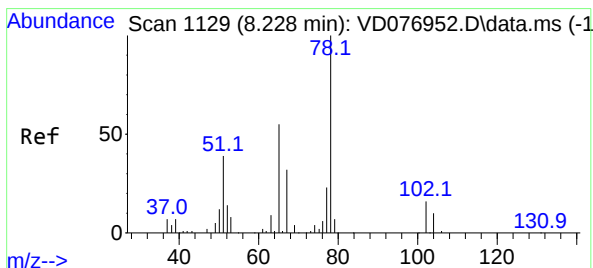
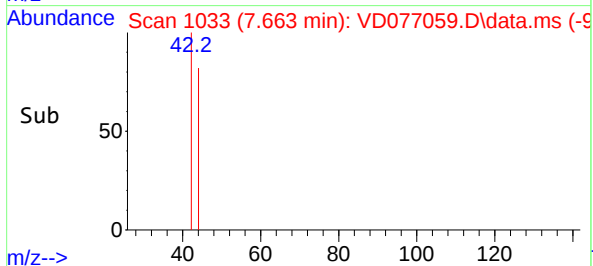
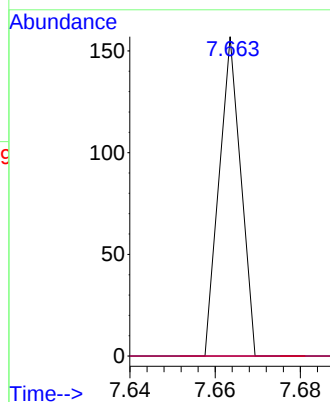
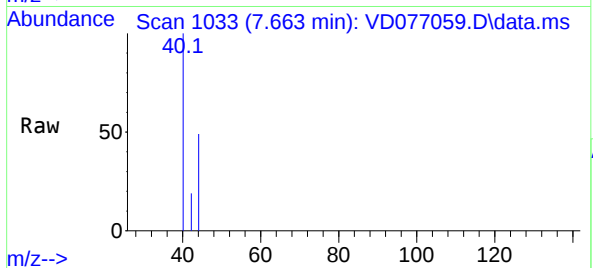




#29
Tetrahydrofuran
Concen: 15.520 ug/l
RT: 7.663 min Scan# 1033
Delta R.T. 0.218 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

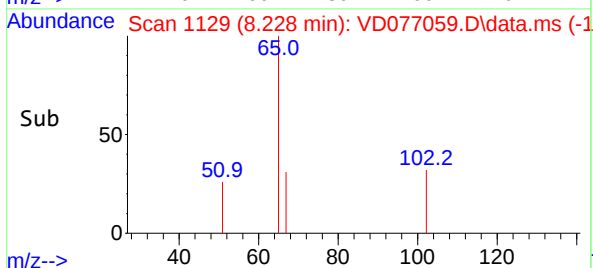
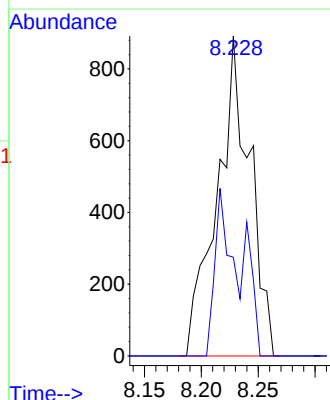
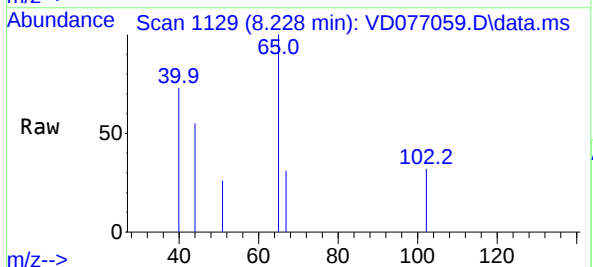
Instrument :
MSVOA_D
ClientSampleId :

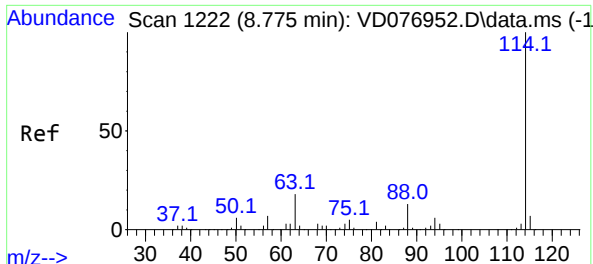
Tgt Ion: 42 Resp: 55
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#



#33
1,2-Dichloroethane-d4
Concen: 80.350 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 65 Resp: 1795
Ion Ratio Lower Upper
65 100
67 27.2 0.0 115.0

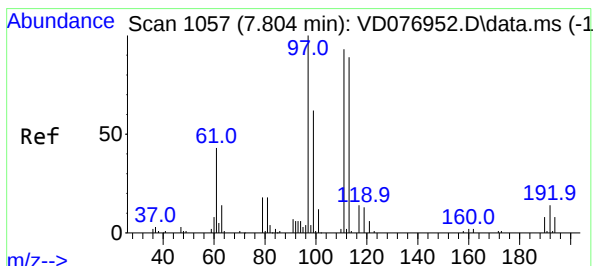
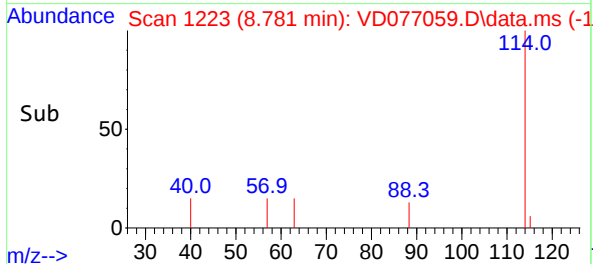
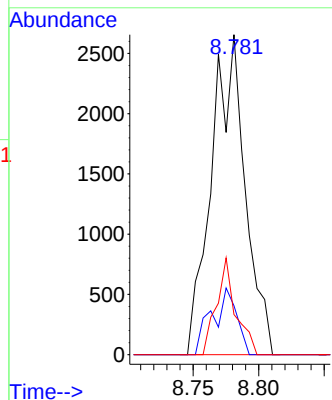
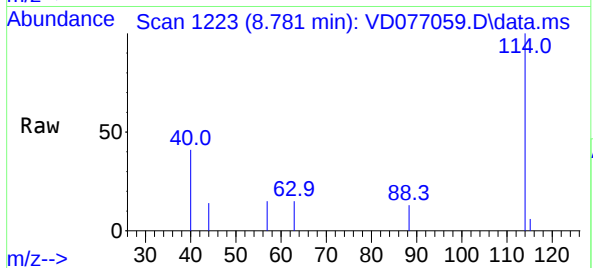




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

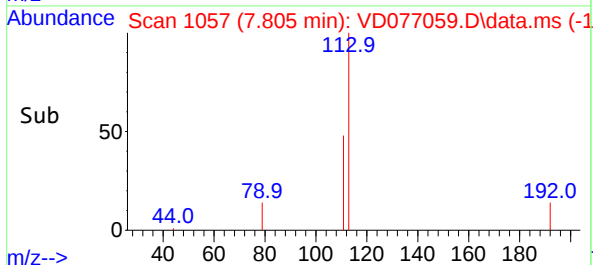
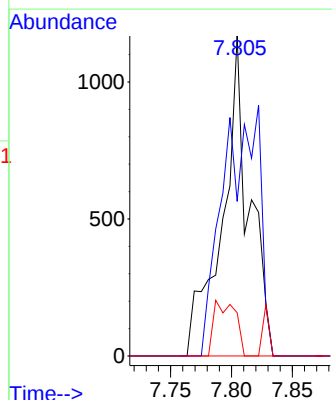
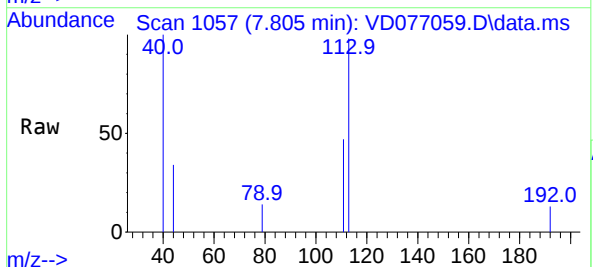
Instrument :
MSVOA_D
ClientSampleId :

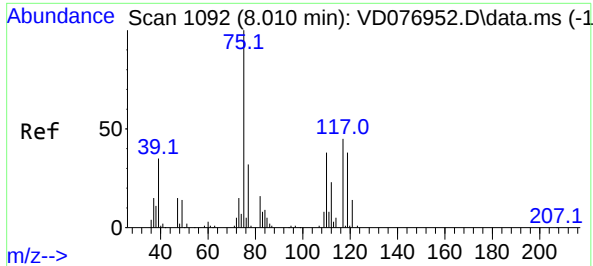
Tgt Ion:114 Resp: 4754
Ion Ratio Lower Upper
114 100
63 15.3 0.0 33.4
88 12.5 0.0 26.2



#35
Dibromofluoromethane
Concen: 56.392 ug/l
RT: 7.805 min Scan# 1057
Delta R.T. 0.001 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

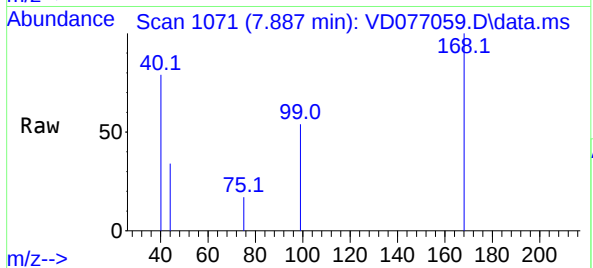
Tgt Ion:113 Resp: 1791
Ion Ratio Lower Upper
113 100
111 54.0 84.7 127.1#
192 13.9 16.8 25.2#



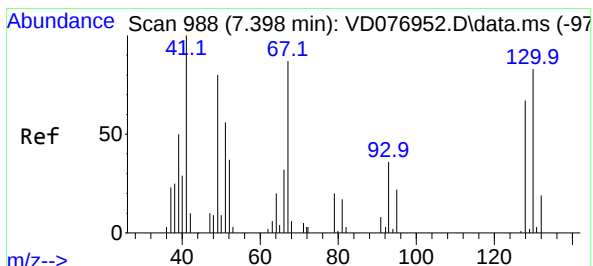
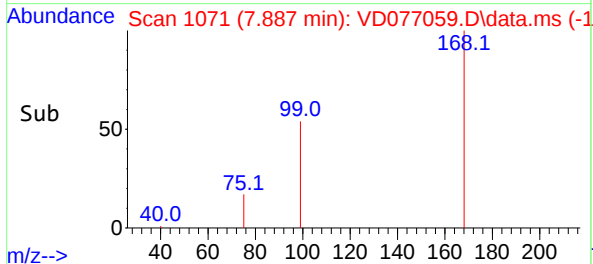
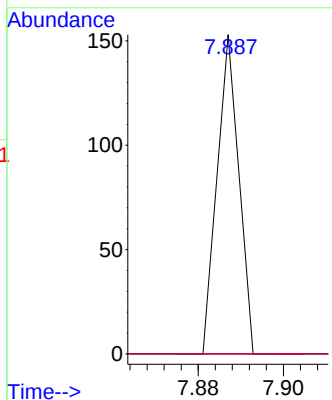


#36
1,1-Dichloropropene
Concen: 1.194 ug/l
RT: 7.887 min Scan# 1092
Delta R.T. -0.123 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

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MSVOA_D
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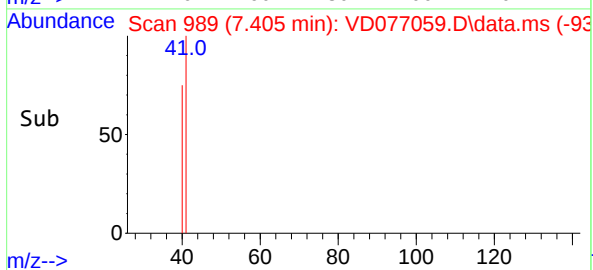
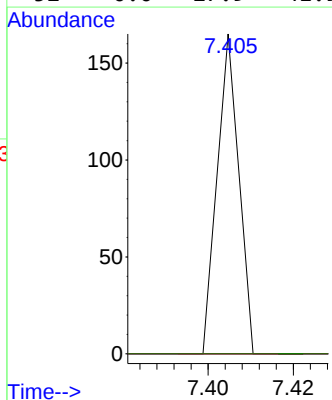
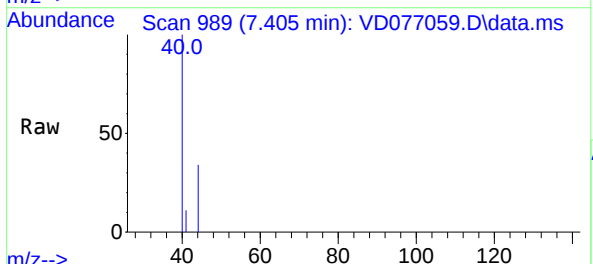


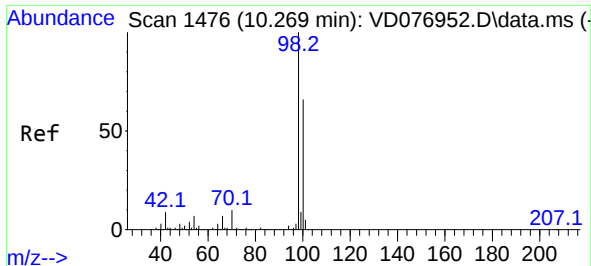
Tgt Ion: 75 Resp: 54
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#41
Methacrylonitrile
Concen: 6.446 ug/l
RT: 7.405 min Scan# 989
Delta R.T. 0.007 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 41 Resp: 58
Ion Ratio Lower Upper
41 100
39 0.0 34.0 51.0#
67 0.0 77.0 115.4#
52 0.0 27.9 41.9#

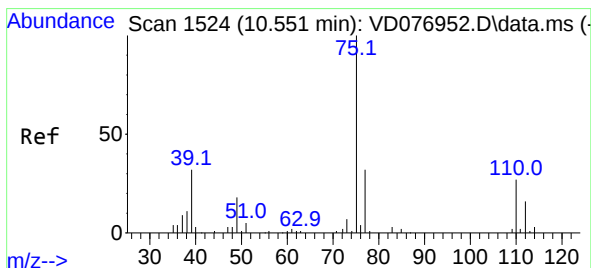
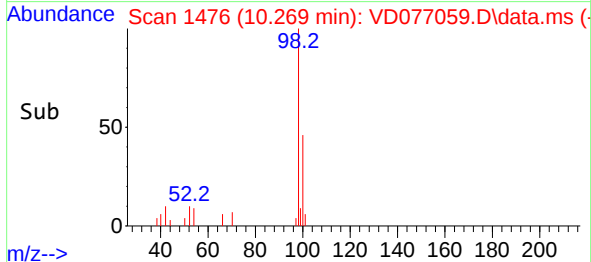
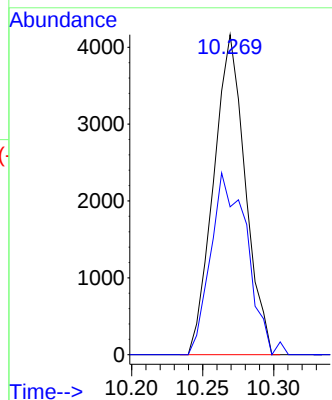
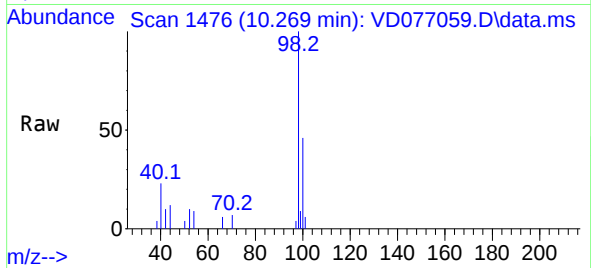




#50
Toluene-d8
Concen: 56.145 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

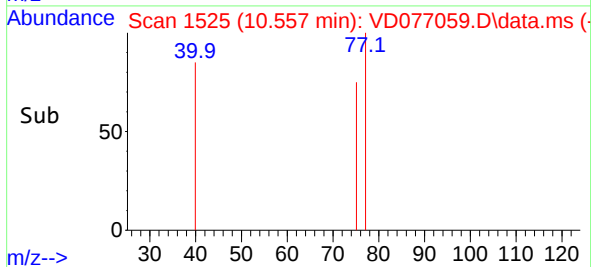
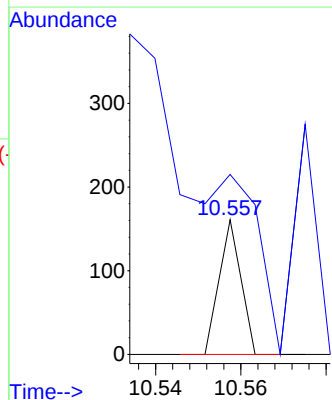
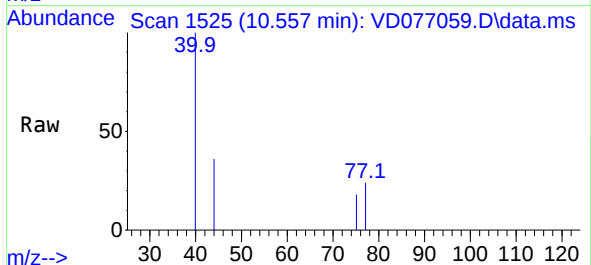
Instrument :
MSVOA_D
ClientSampleId :

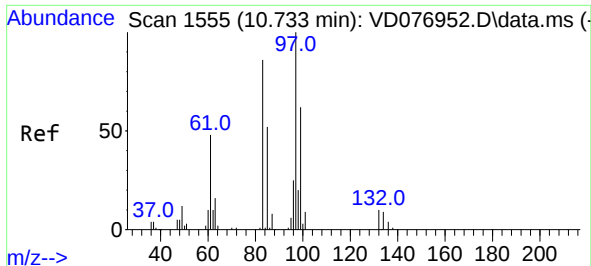
Tgt Ion: 98 Resp: 6451
Ion Ratio Lower Upper
98 100
100 65.1 50.3 75.5



#53
t-1,3-Dichloropropene
Concen: 1.290 ug/l
RT: 10.557 min Scan# 1525
Delta R.T. 0.006 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

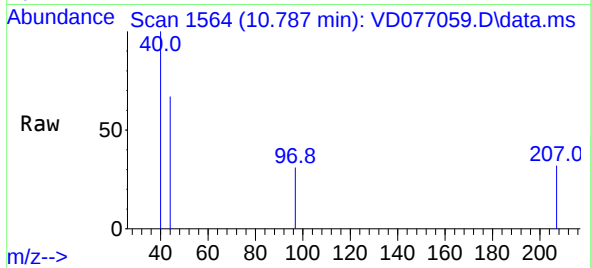
Tgt Ion: 75 Resp: 57
Ion Ratio Lower Upper
75 100
77 133.5 25.3 37.9#



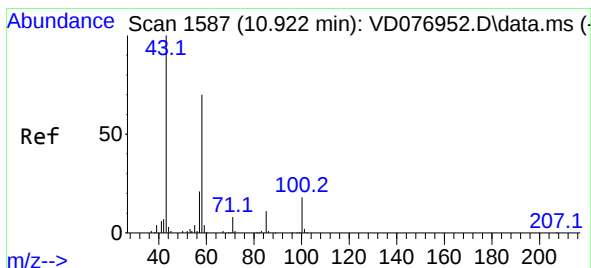
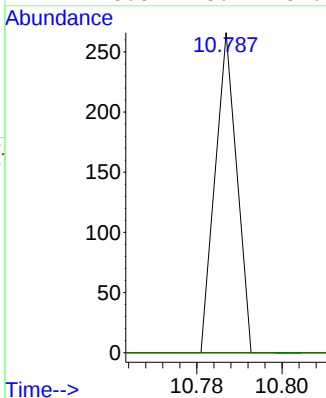
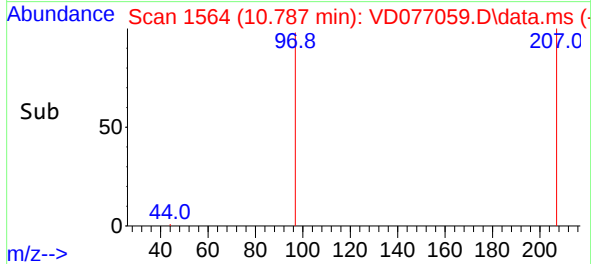


#55
1,1,2-Trichloroethane
Concen: 3.461 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.054 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Instrument :
MSVOA_D
ClientSampleId :

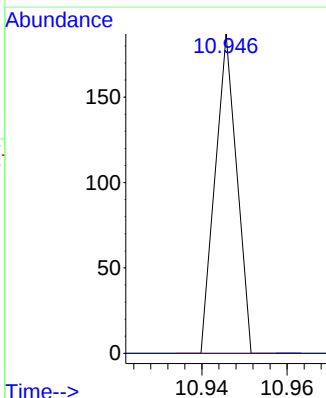
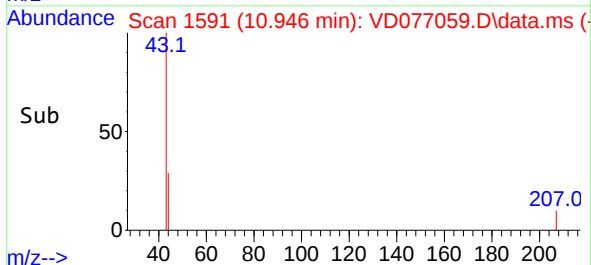
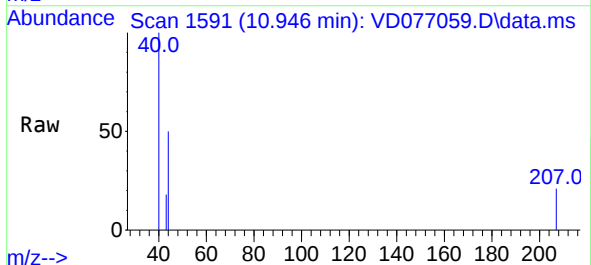


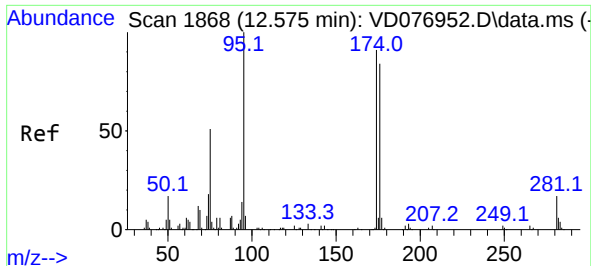
Tgt Ion: 97	Resp:	94
Ion	Ratio	Lower Upper
97	100	
83	0.0	65.8 98.6#
85	0.0	45.7 68.5#
99	0.0	46.2 69.4#



#59
2-Hexanone
Concen: 5.765 ug/l
RT: 10.946 min Scan# 1591
Delta R.T. 0.024 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

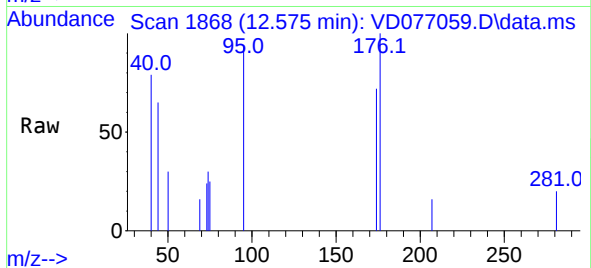
Tgt Ion: 43	Resp:	66
Ion	Ratio	Lower Upper
43	100	
58	0.0	34.1 102.2#



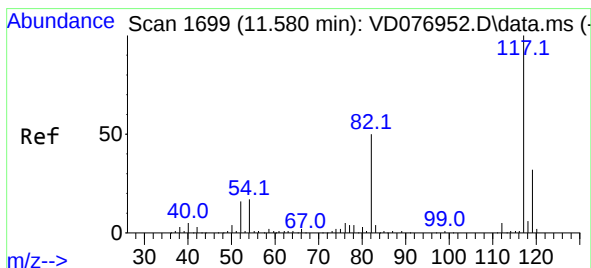
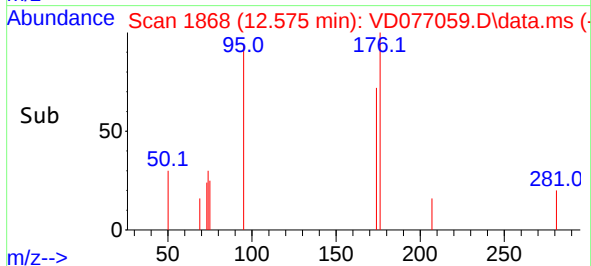
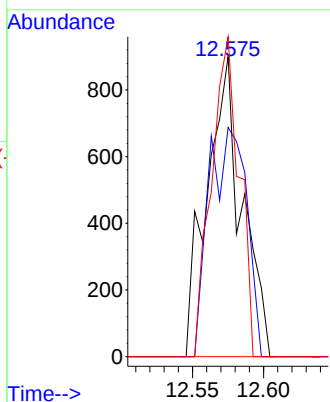


#62
4-Bromofluorobenzene
Concen: 45.637 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Instrument :
MSVOA_D
ClientSampleId :

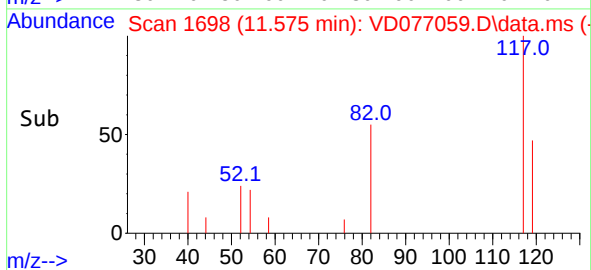
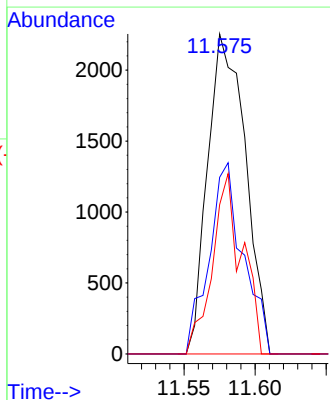
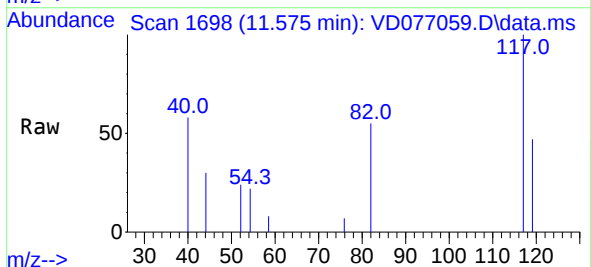


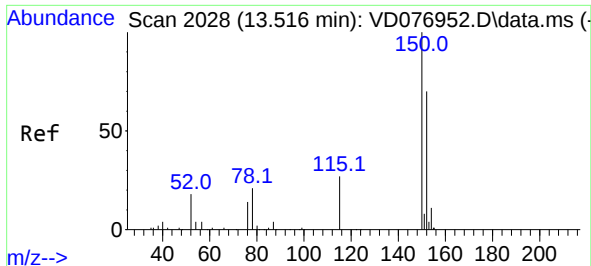
Tgt Ion: 95 Resp: 1546
Ion Ratio Lower Upper
95 100
174 82.3 0.0 201.8
176 84.5 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.575 min Scan# 1698
Delta R.T. -0.005 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

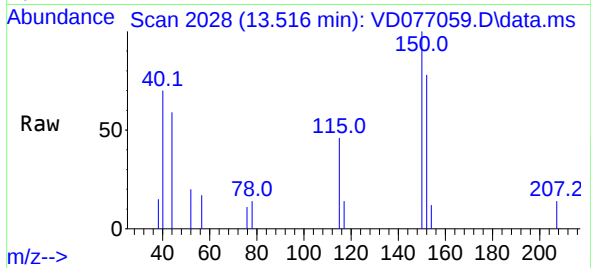
Tgt Ion: 117 Resp: 4174
Ion Ratio Lower Upper
117 100
82 55.2 38.3 57.5
119 46.7 25.0 37.4#



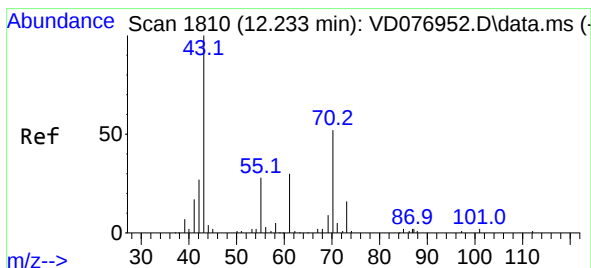
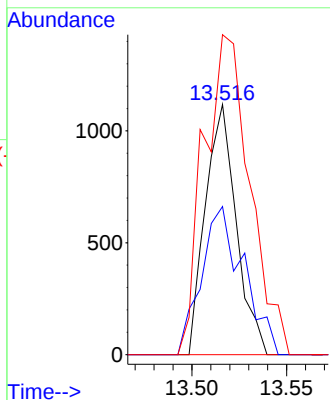
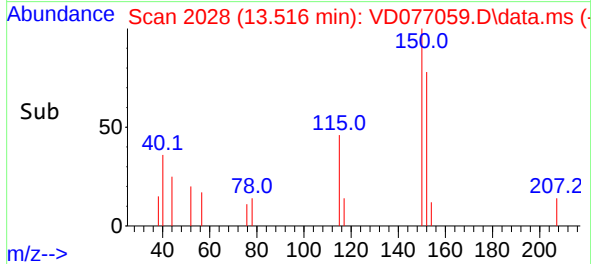


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 20
Delta R.T. 0.000 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

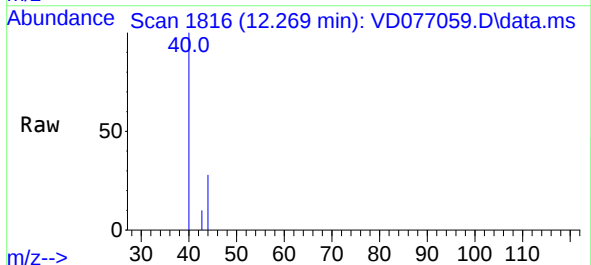
Instrument :
MSVOA_D
ClientSampleId :



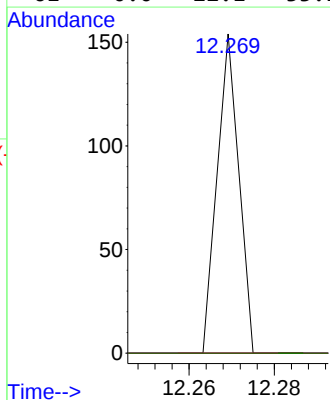
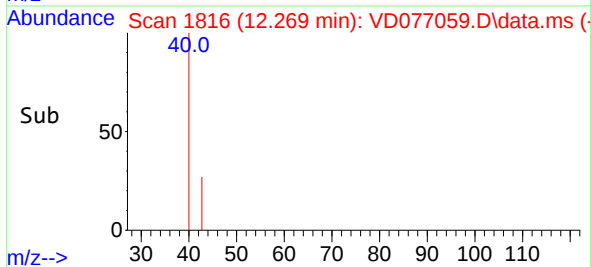
Tgt Ion:152 Resp: 1268
Ion Ratio Lower Upper
152 100
115 80.6 27.1 81.3
150 190.8 0.0 353.6

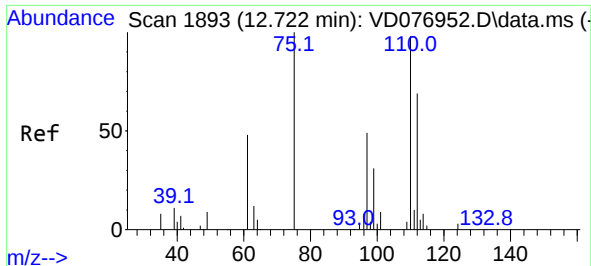


#74
N-ethyl acetate
Concen: 3.465 ug/l
RT: 12.269 min Scan# 1816
Delta R.T. 0.036 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55



Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 0.0 23.8 35.6#
61 0.0 22.1 33.1#

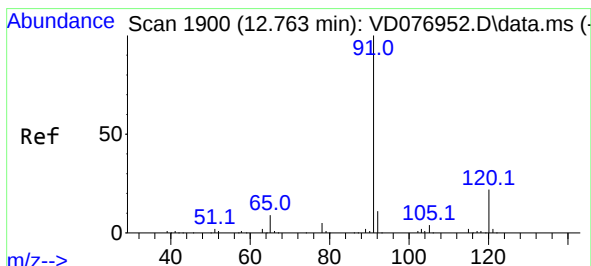
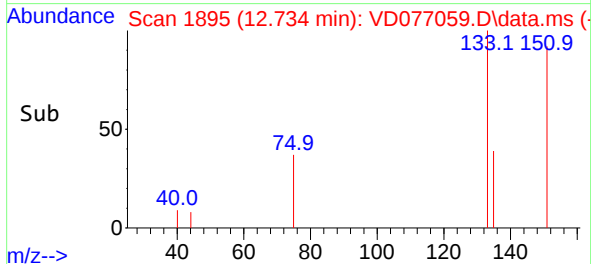
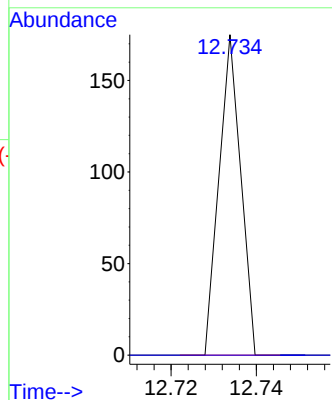
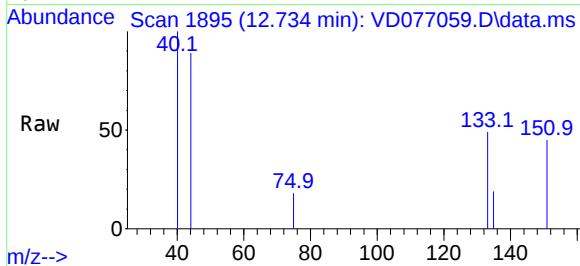




#76
1,2,3-Trichloropropane
Concen: 5.069 ug/l
RT: 12.734 min Scan# 1893
Delta R.T. 0.012 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

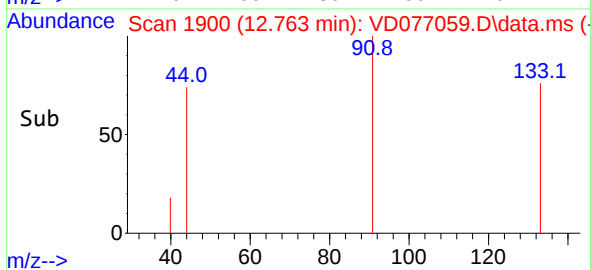
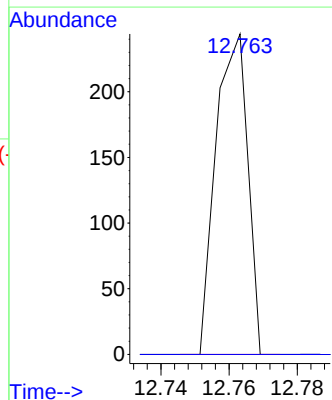
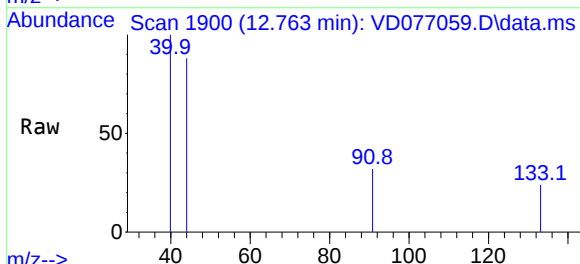
Instrument :
MSVOA_D
ClientSampleId :

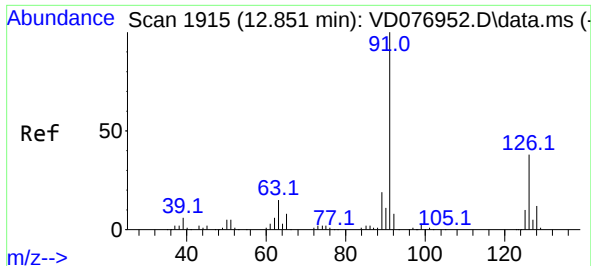
Tgt Ion: 75 Resp: 62
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.461 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 91 Resp: 158
Ion Ratio Lower Upper
91 100
120 0.0 12.4 37.2#

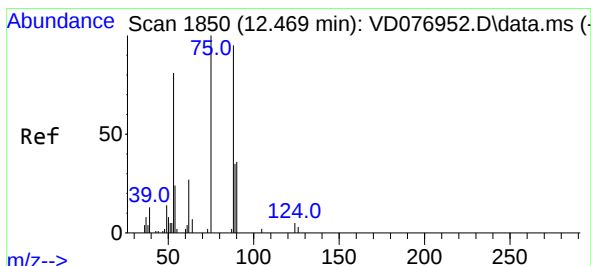
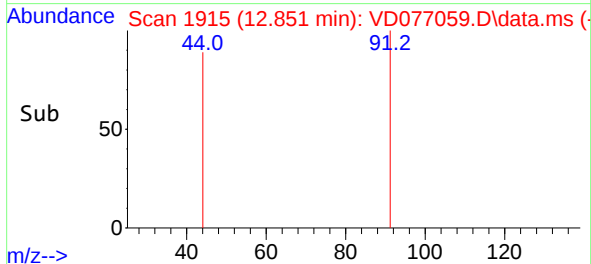
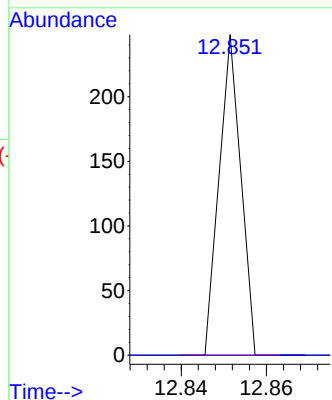
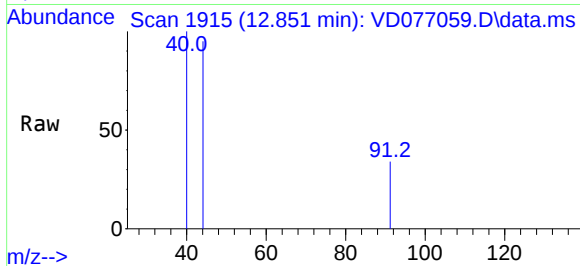




#79
2-Chlorotoluene
Concen: 1.488 ug/l
RT: 12.851 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

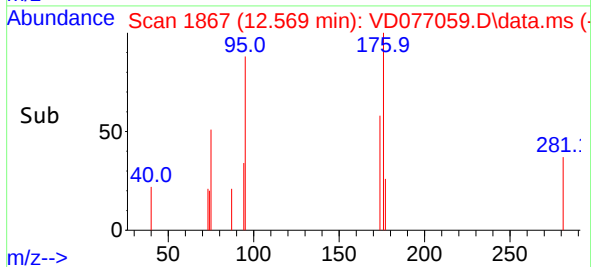
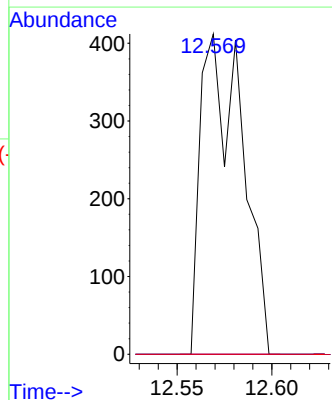
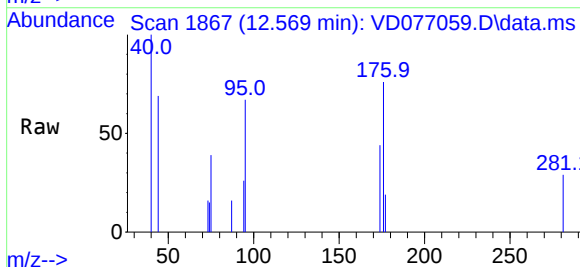
Instrument :
MSVOA_D
ClientSampleId :

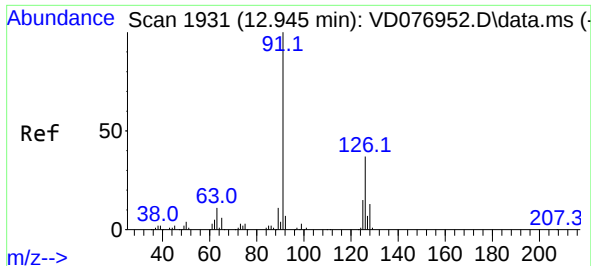
Tgt Ion: 91 Resp: 88
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 119.221 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

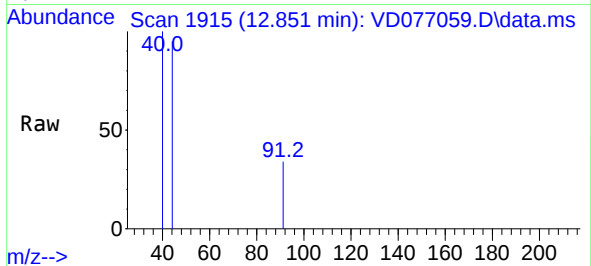
Tgt Ion: 75 Resp: 628
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#



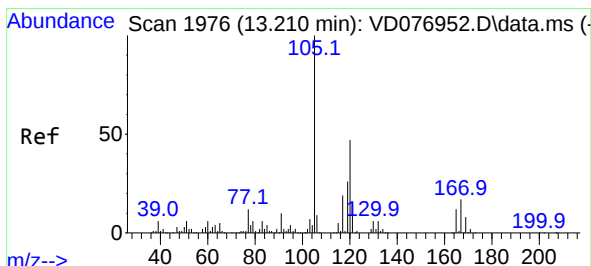
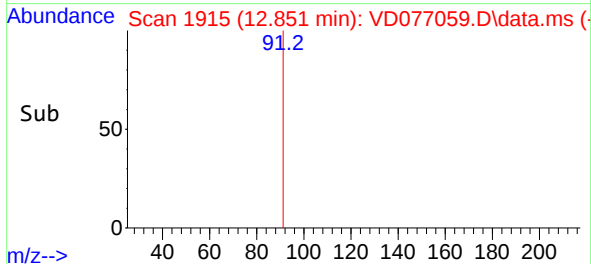
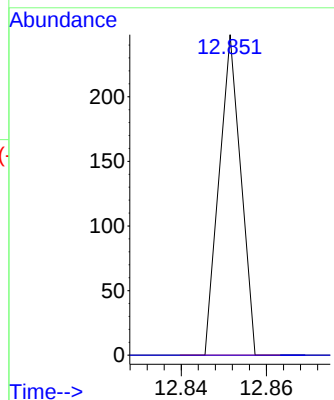


#82
4-Chlorotoluene
Concen: 1.407 ug/l
RT: 12.851 min Scan# 1915
Delta R.T. -0.094 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Instrument :
MSVOA_D
ClientSampleId :

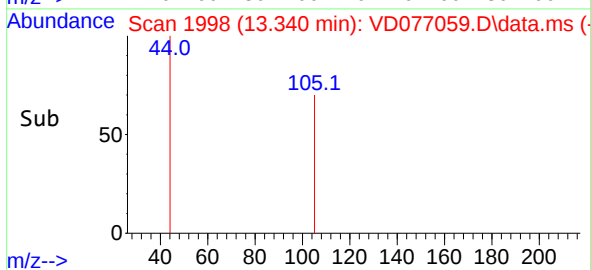
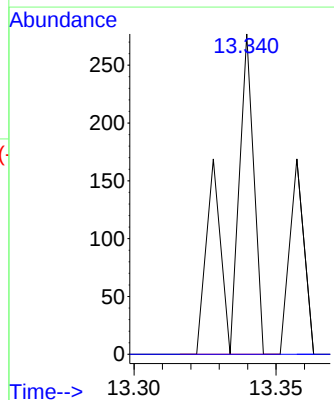
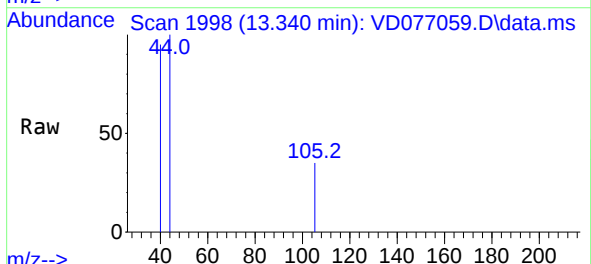


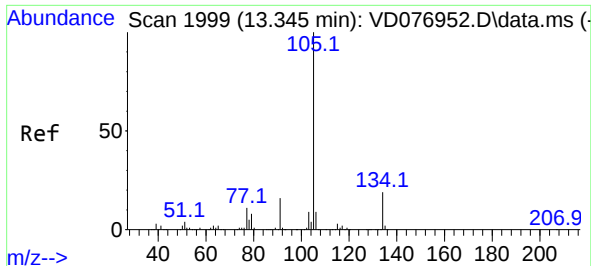
Tgt Ion: 91 Resp: 88
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.4#



#84
1,2,4-Trimethylbenzene
Concen: 2.119 ug/l
RT: 13.340 min Scan# 1998
Delta R.T. 0.130 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 105 Resp: 157
Ion Ratio Lower Upper
105 100
120 0.0 24.3 72.9#

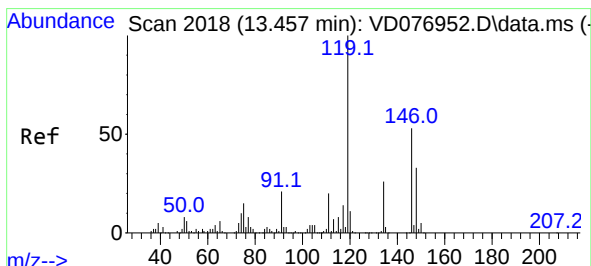
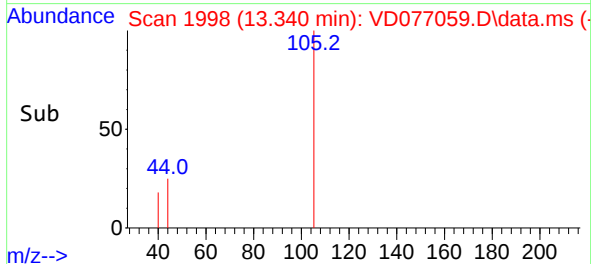
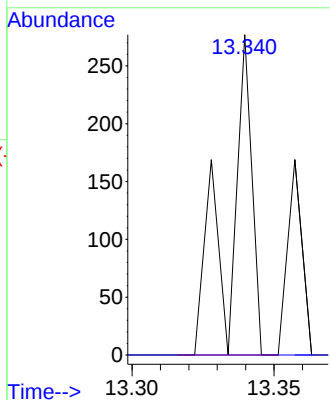
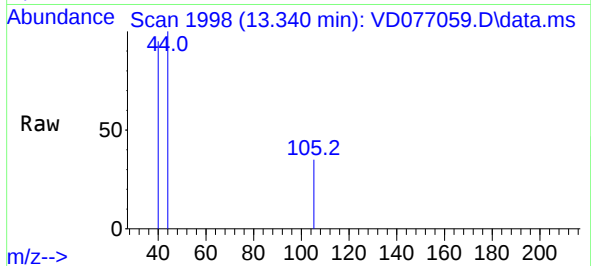




#85
 sec-Butylbenzene
 Concen: 1.628 ug/l
 RT: 13.340 min Scan# 1999
 Delta R.T. -0.005 min
 Lab File: VD077059.D
 Acq: 29 Aug 2023 13:55

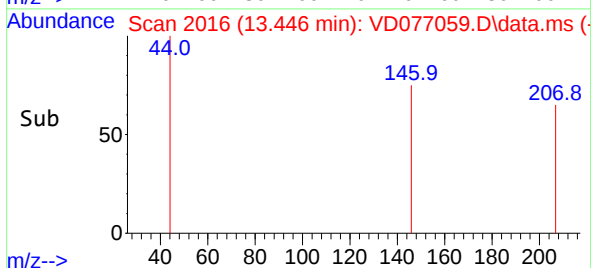
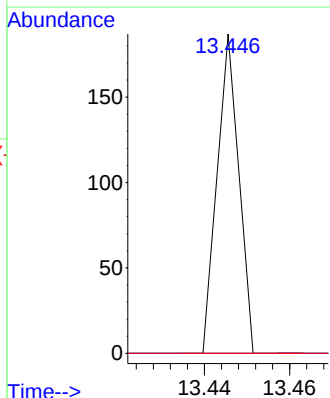
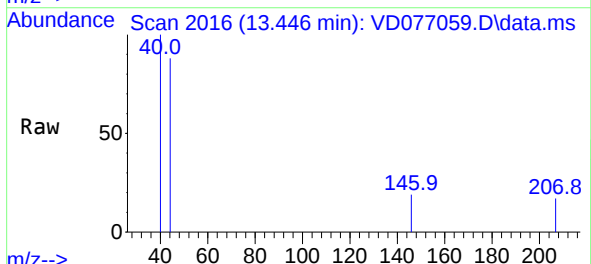
Instrument :
 MSVOA_D
 ClientSampleId :

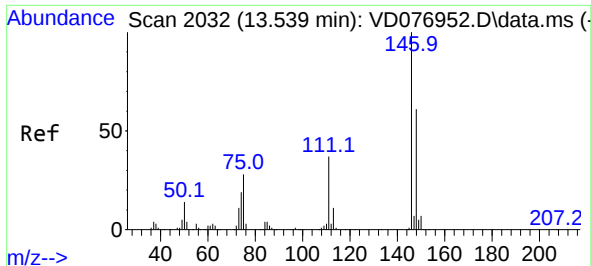
Tgt Ion:105 Resp: 157
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.9 32.9#



#87
 1,3-Dichlorobenzene
 Concen: 1.427 ug/l
 RT: 13.446 min Scan# 2016
 Delta R.T. -0.011 min
 Lab File: VD077059.D
 Acq: 29 Aug 2023 13:55

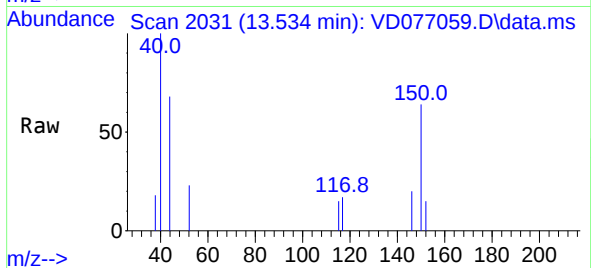
Tgt Ion:146 Resp: 66
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.9 53.8#
 148 0.0 32.3 96.8#



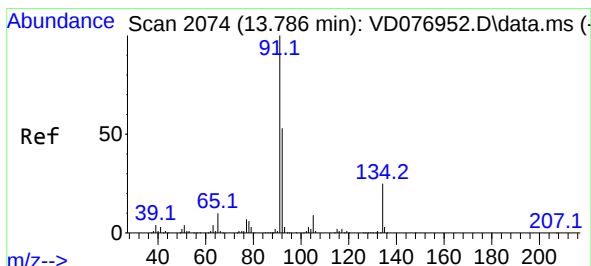
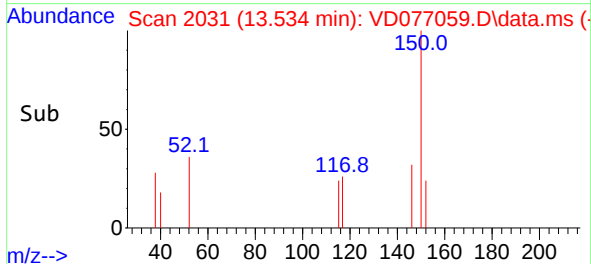
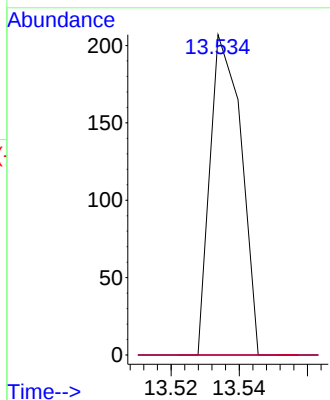


#88
1,4-Dichlorobenzene
Concen: 2.920 ug/l
RT: 13.534 min Scan# 2032
Delta R.T. -0.005 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Instrument :
MSVOA_D
ClientSampleId :

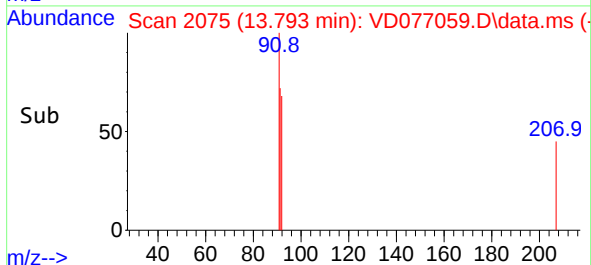
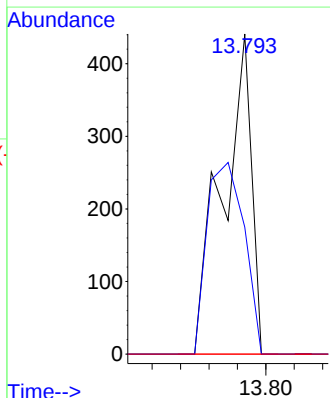
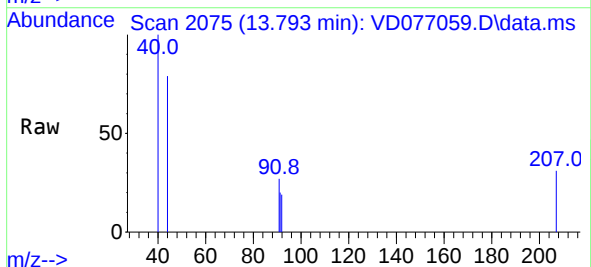


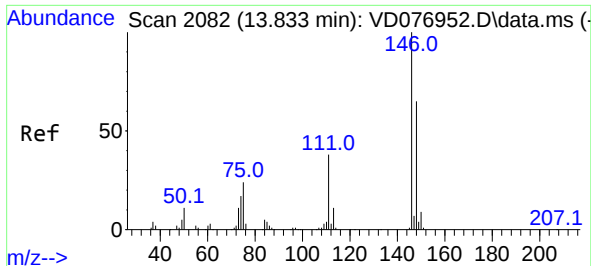
Tgt Ion:146 Resp: 131
Ion Ratio Lower Upper
146 100
111 0.0 17.4 52.3#
148 0.0 31.7 95.1#



#89
n-Butylbenzene
Concen: 4.091 ug/l
RT: 13.793 min Scan# 2075
Delta R.T. 0.007 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion: 91 Resp: 309
Ion Ratio Lower Upper
91 100
92 77.7 26.5 79.5
134 0.0 13.8 41.3#





#91

1,2-Dichlorobenzene

Concen: 1.396 ug/l

RT: 13.828 min Scan# 2081

Delta R.T. -0.005 min

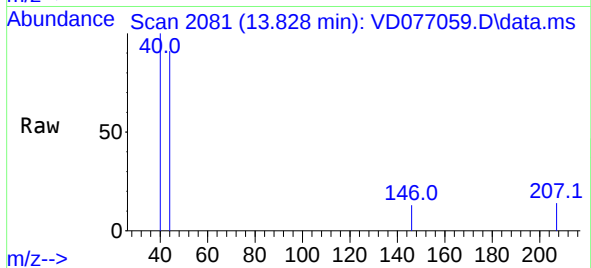
Lab File: VD077059.D

Acq: 29 Aug 2023 13:55

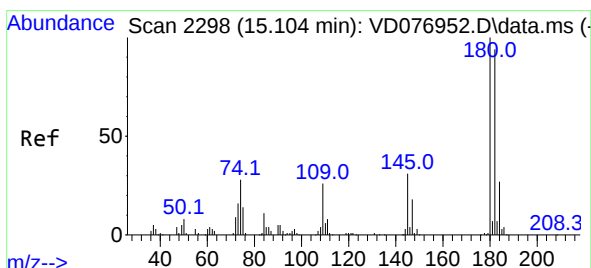
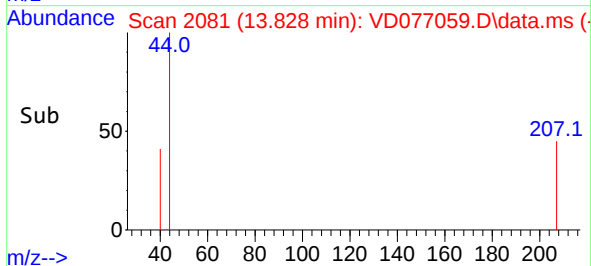
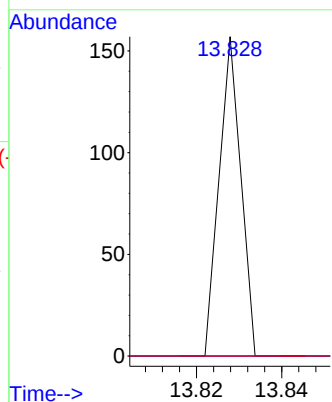
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	146	Resp:	55
Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.3	54.8#
148	0.0	31.6	94.7#



#93

1,2,4-Trichlorobenzene

Concen: 4.497 ug/l

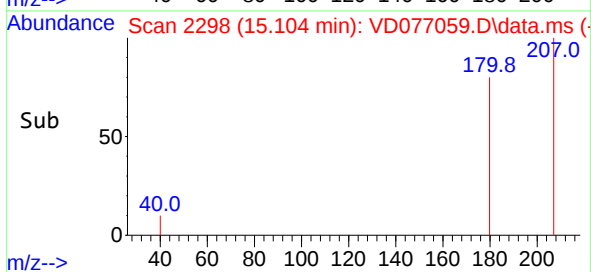
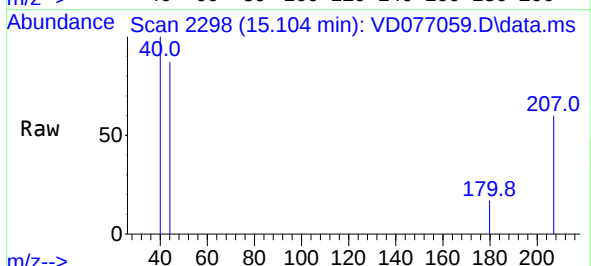
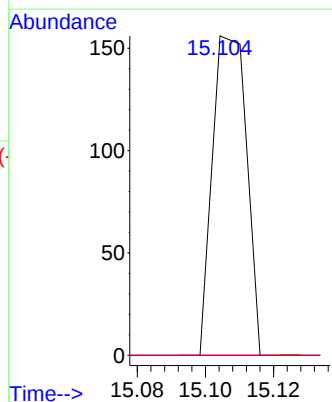
RT: 15.104 min Scan# 2298

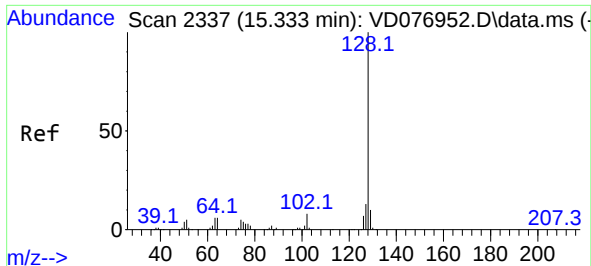
Delta R.T. 0.000 min

Lab File: VD077059.D

Acq: 29 Aug 2023 13:55

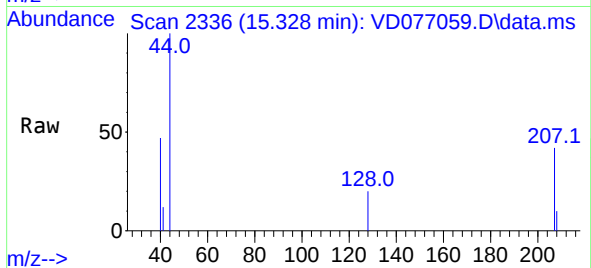
Tgt Ion:	180	Resp:	109
Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.5	145.6#
145	0.0	14.2	42.6#



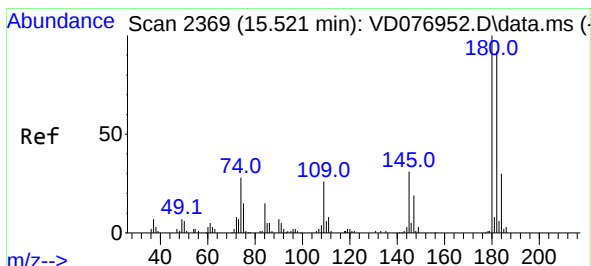
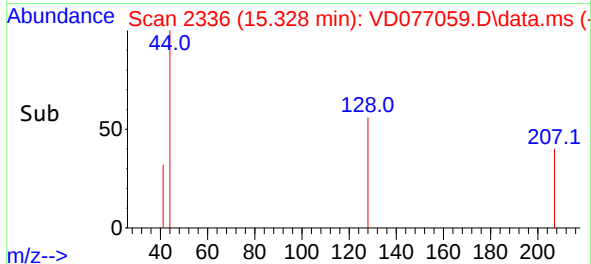
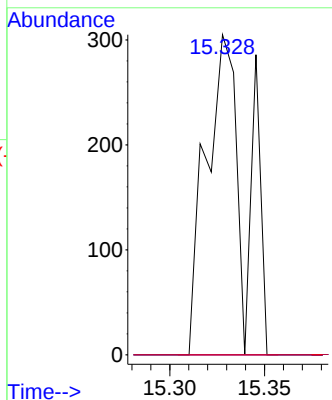


#95
Naphthalene
Concen: 9.699 ug/l
RT: 15.328 min Scan# 21
Delta R.T. -0.005 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 436
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 8.153 ug/l
RT: 15.534 min Scan# 2371
Delta R.T. 0.013 min
Lab File: VD077059.D
Acq: 29 Aug 2023 13:55

Tgt Ion:180 Resp: 177
Ion Ratio Lower Upper
180 100
182 0.0 47.3 141.9#
145 0.0 15.1 45.3#

