

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD081423\
 Data File : VD077005.D
 Acq On : 14 Aug 2023 17:07
 Operator : JC/SY
 Sample : 03961-03
 Misc : 5.05G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20071

Quant Time: Aug 15 04:49:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D080823S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 09 07:25:36 2023
 Response via : Initial Calibration

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

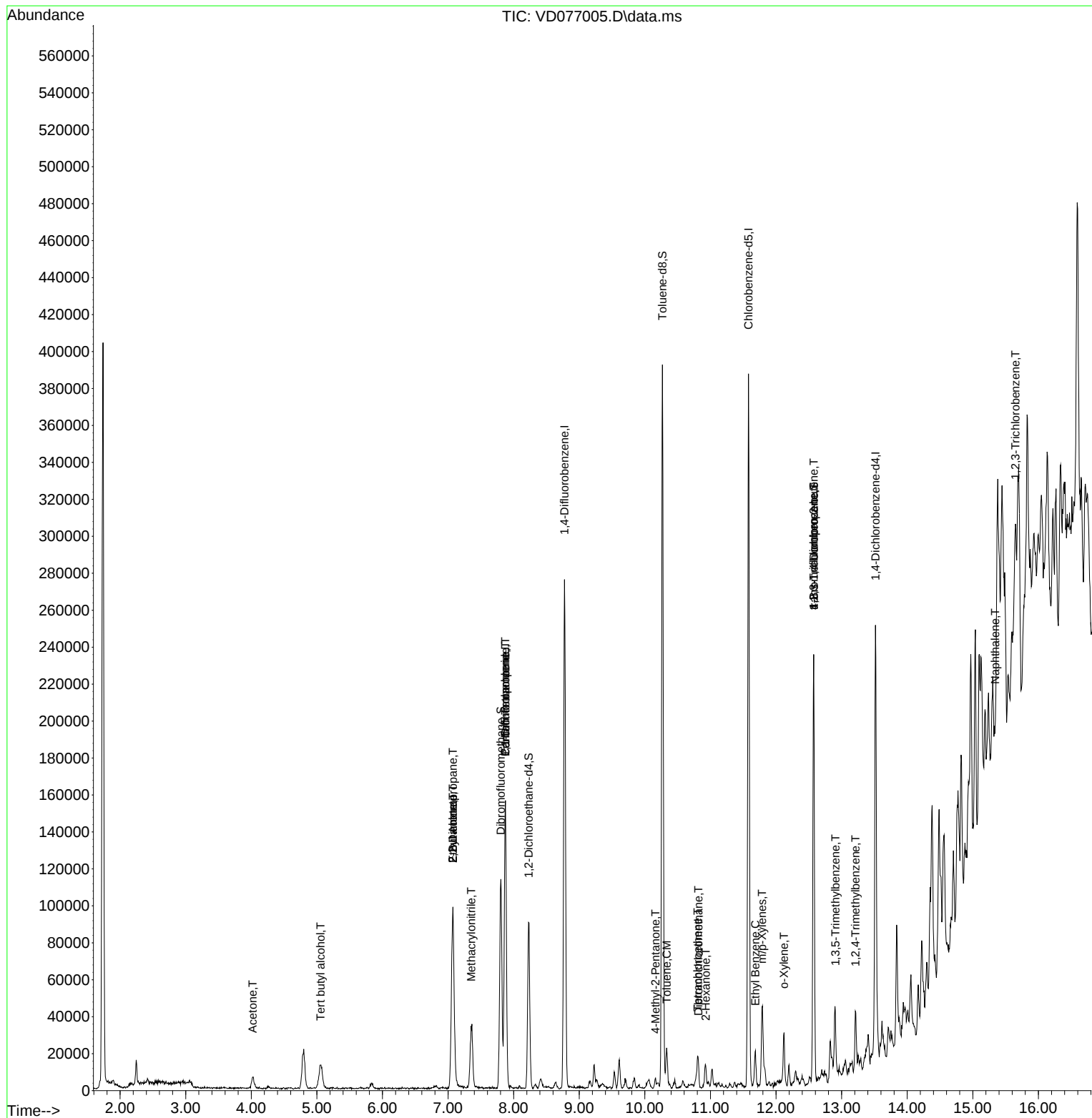
Internal Standards						
1) Pentafluorobenzene	7.875	168	122443	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	259629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	229640	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	67749	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	70002	72.473	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 144.940%	
35) Dibromofluoromethane	7.804	113	83385	59.740	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 119.480%	
50) Toluene-d8	10.269	98	272583	60.802	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 121.600%	
62) 4-Bromofluorobenzene	12.575	95	69621	44.422	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 88.840%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.057	59	24758	399.112	ug/l	99
16) Acetone	4.022	43	10861	41.578	ug/l	95
20) Methylene Chloride	4.799	84	17691	Below Cal		96
25) 2-Butanone	7.075	43	10639	32.929	ug/l #	83
26) 2,2-Dichloropropane	7.075	77	7086	3.632	ug/l #	49
31) Cyclohexane	7.869	56	3080	Below Cal	#	23
36) 1,1-Dichloropropene	7.875	75	9861	5.713	ug/l #	47
37) Ethyl Acetate	7.075	43	10639	13.358	ug/l #	82
38) Carbon Tetrachloride	7.875	117	12212	6.611	ug/l #	17
41) Methacrylonitrile	7.351	41	17298	40.250	ug/l #	31
51) 4-Methyl-2-Pentanone	10.163	43	3321	4.020	ug/l #	77
52) Toluene	10.334	92	9824	2.695	ug/l	88
59) 2-Hexanone	10.928	43	7551	13.427	ug/l	74
60) Dibromochloromethane	10.816	129	2741	1.714	ug/l #	12
64) Tetrachloroethene	10.804	164	2783	2.408	ug/l #	73
67) Ethyl Benzene	11.687	91	11691	1.706	ug/l	96
68) m/p-Xylenes	11.787	106	13382	5.027	ug/l	85
69) o-Xylene	12.122	106	7865	3.081	ug/l	100
76) 1,2,3-Trichloropropane	12.575	75	36167	56.906	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.904	105	5459	1.578	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.575	75	36167	133.697	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.210	105	17212	4.881	ug/l	96
95) Naphthalene	15.339	128	9812	4.077	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.651	180	1301	1.233	ug/l	70

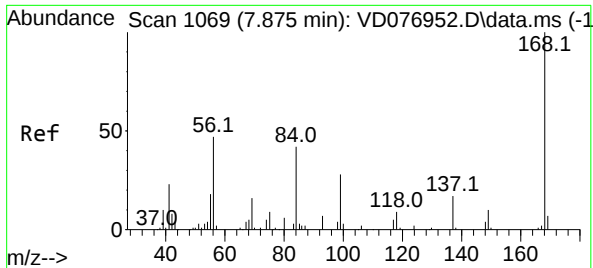
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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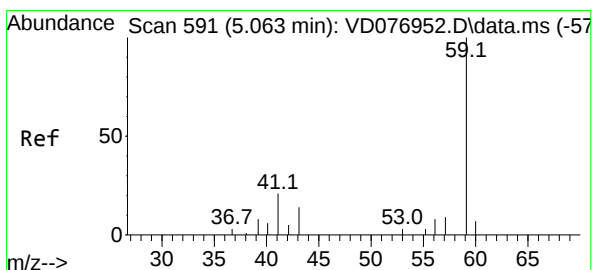
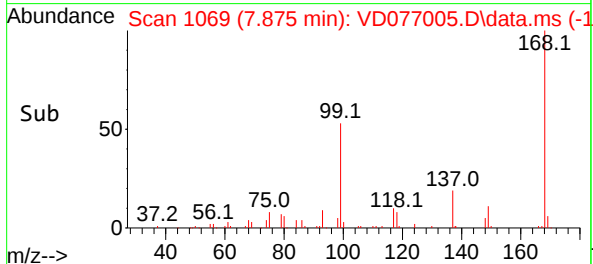
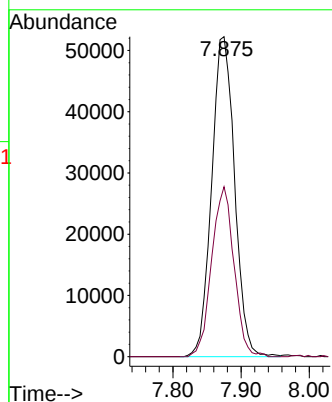
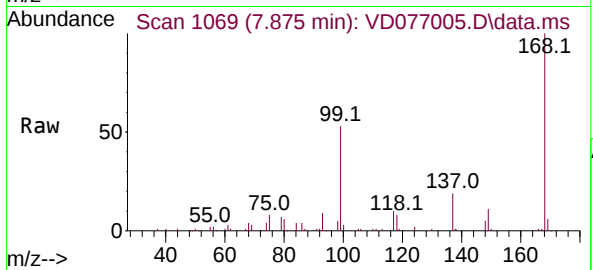




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

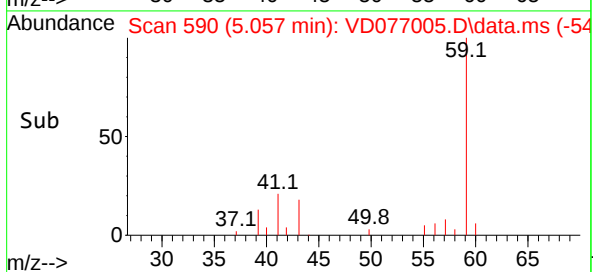
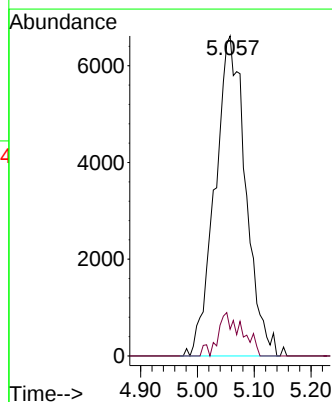
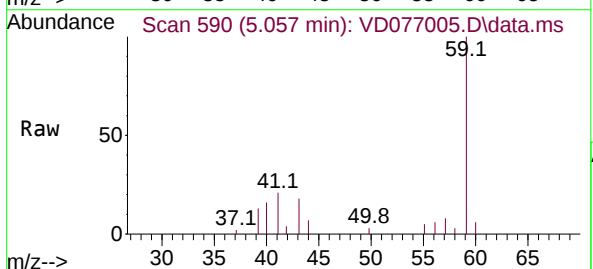
Instrument :
MSVOA_D
ClientSampleId :
20071

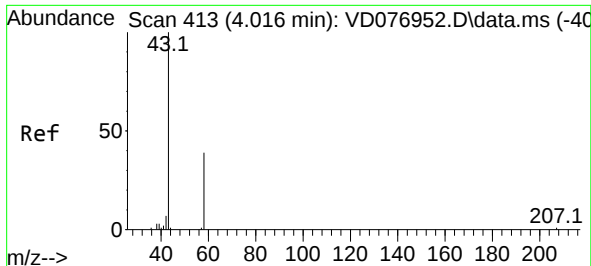
Tgt Ion:168 Resp: 122443
Ion Ratio Lower Upper
168 100
99 53.1 36.7 55.1



#11
Tert butyl alcohol
Concen: 399.112 ug/l
RT: 5.057 min Scan# 590
Delta R.T. -0.006 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 59 Resp: 24758
Ion Ratio Lower Upper
59 100
57 10.0 7.8 11.8

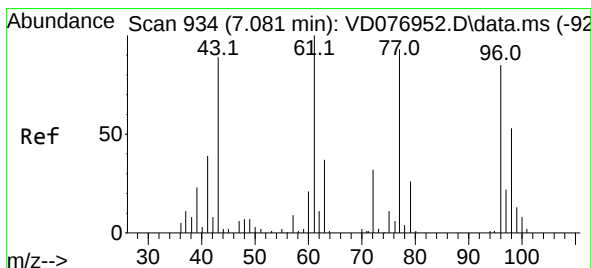
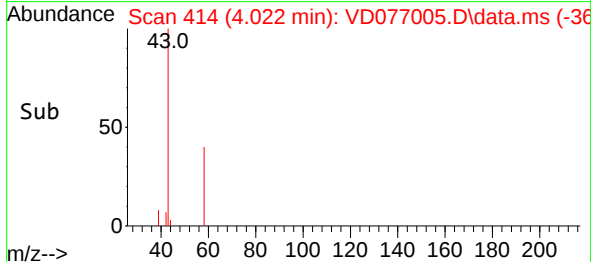
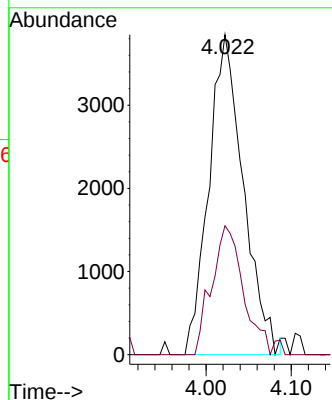
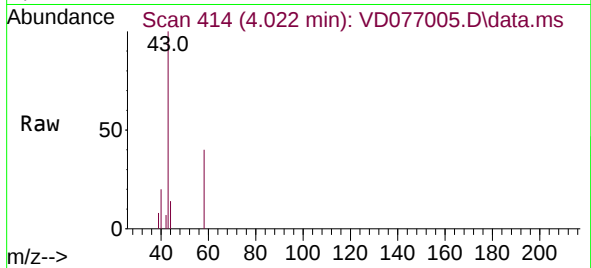




#16
Acetone
Concen: 41.578 ug/l
RT: 4.022 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

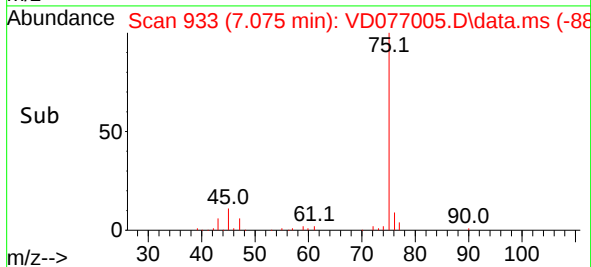
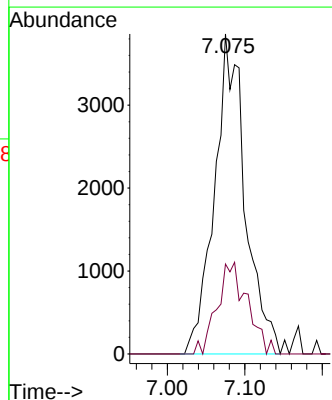
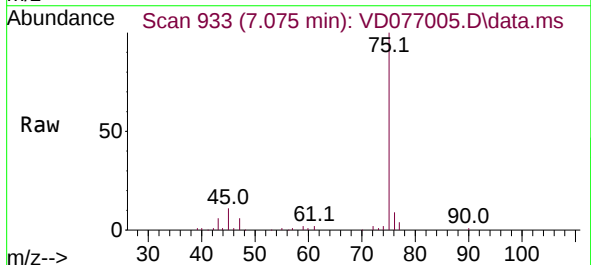
Instrument :
MSVOA_D
ClientSampleId :
20071

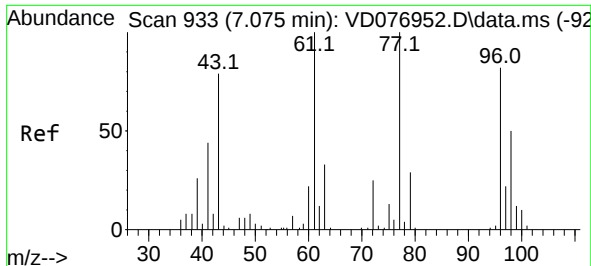
Tgt Ion: 43 Resp: 10861
Ion Ratio Lower Upper
43 100
58 40.3 34.7 52.1



#25
2-Butanone
Concen: 32.929 ug/l
RT: 7.075 min Scan# 933
Delta R.T. -0.006 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 43 Resp: 10639
Ion Ratio Lower Upper
43 100
72 28.1 30.7 46.1#





#26

2,2-Dichloropropane

Concen: 3.632 ug/l

RT: 7.075 min Scan# 91

Delta R.T. 0.000 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

Instrument :

MSVOA_D

ClientSampleId :

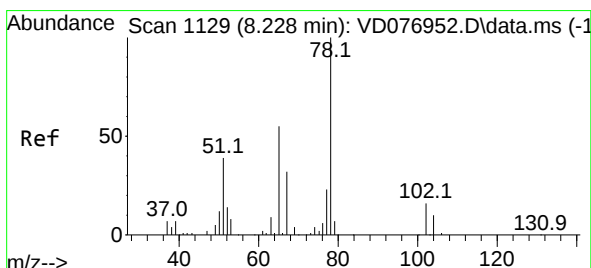
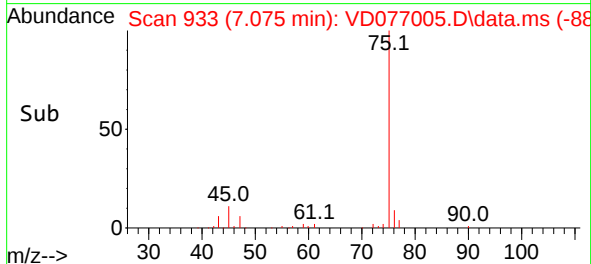
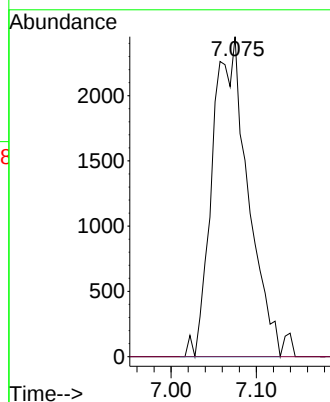
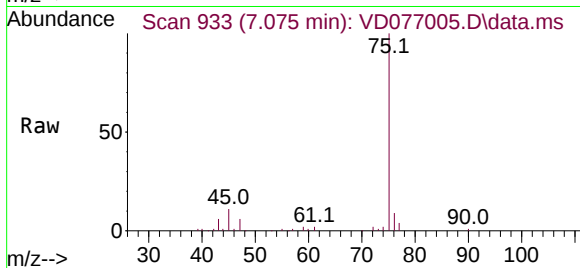
20071

Tgt Ion: 77 Resp: 7086

Ion Ratio Lower Upper

77 100

97 0.0 13.2 39.6#



#33

1,2-Dichloroethane-d4

Concen: 72.473 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD077005.D

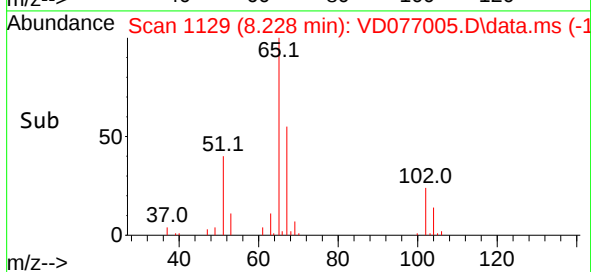
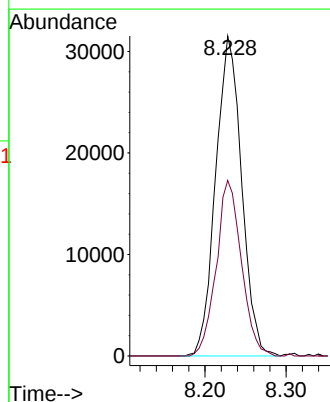
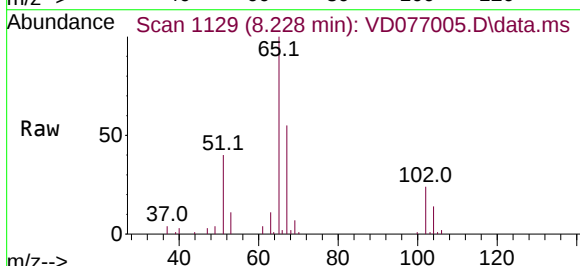
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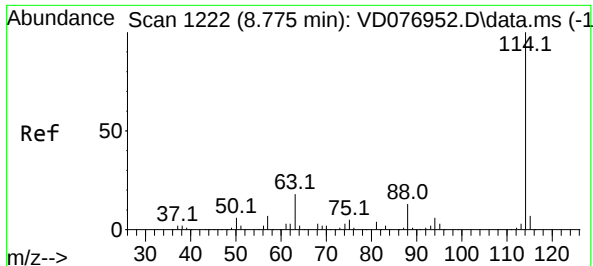
Tgt Ion: 65 Resp: 70002

Ion Ratio Lower Upper

65 100

67 53.2 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

Instrument :

MSVOA_D

ClientSampleId :

20071

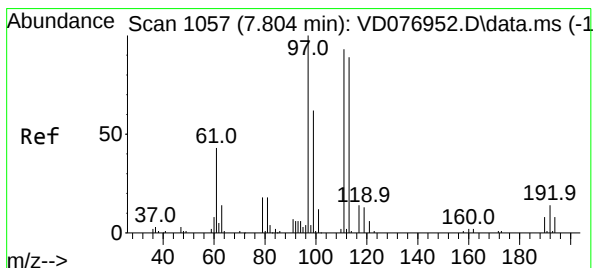
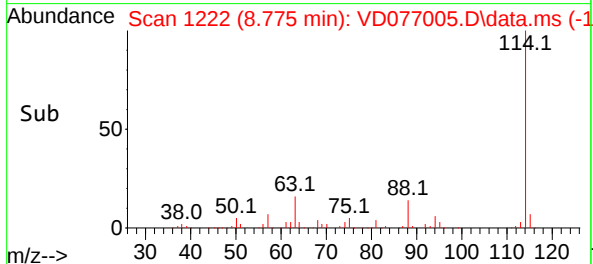
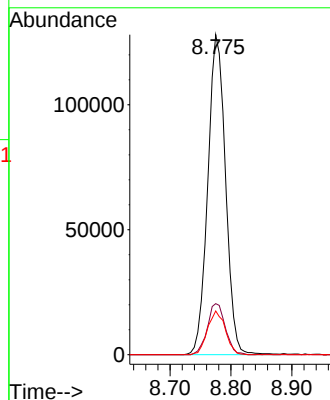
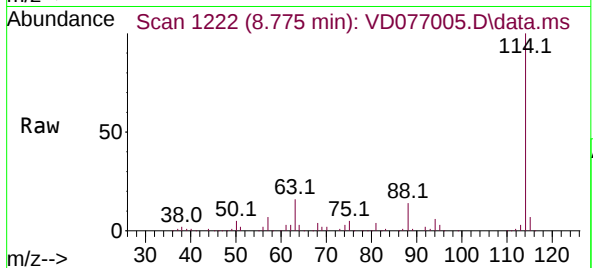
Tgt Ion:114 Resp: 259629

Ion Ratio Lower Upper

114 100

63 16.0 0.0 33.4

88 13.7 0.0 26.2



#35

Dibromofluoromethane

Concen: 59.740 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

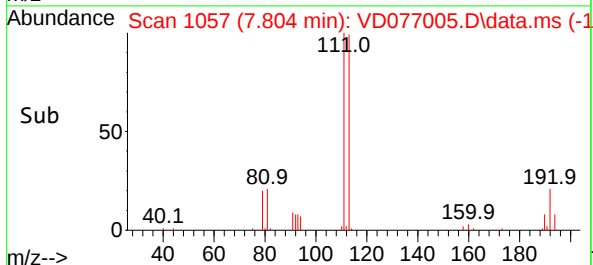
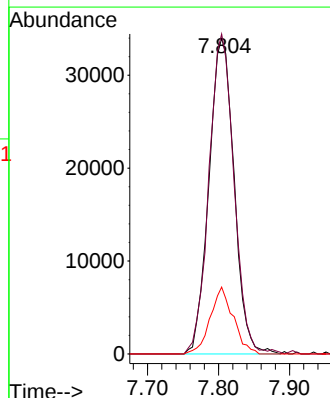
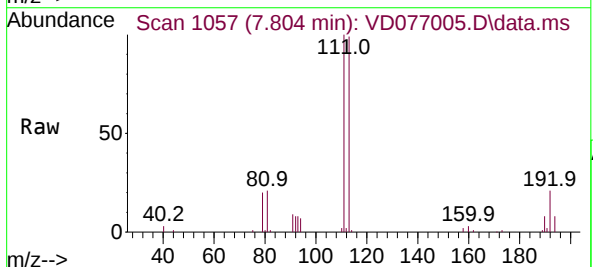
Tgt Ion:113 Resp: 83385

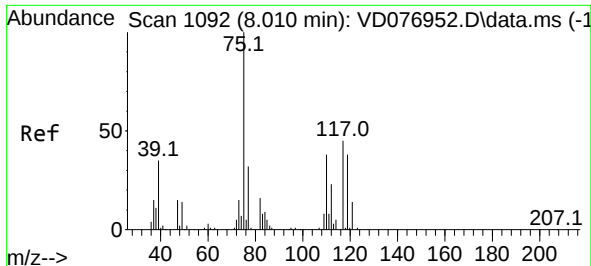
Ion Ratio Lower Upper

113 100

111 100.9 84.7 127.1

192 19.5 16.8 25.2





#36

1,1-Dichloropropene

Concen: 5.713 ug/l

RT: 7.875 min Scan# 1

Delta R.T. -0.135 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

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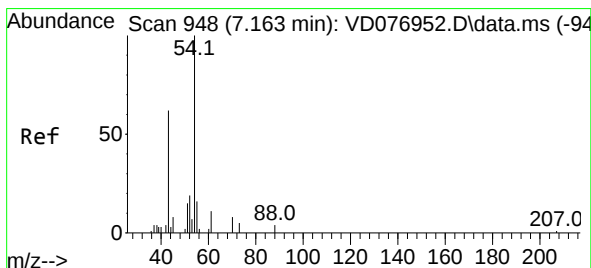
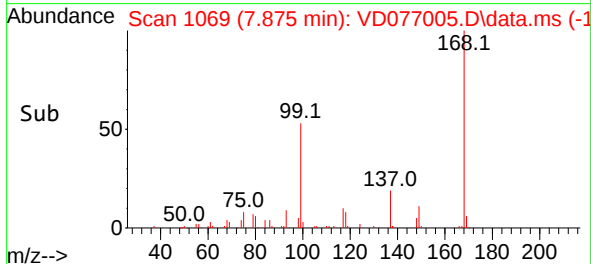
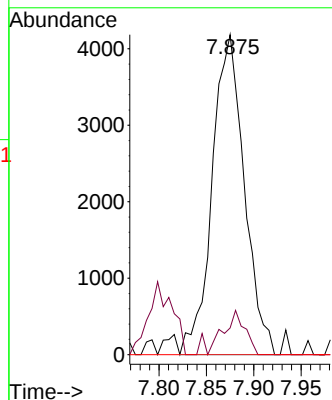
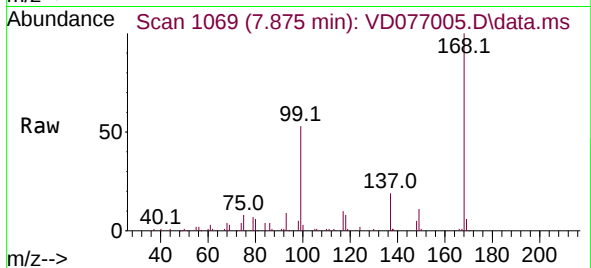
Tgt Ion: 75 Resp: 9861

Ion Ratio Lower Upper

75 100

110 9.2 19.9 59.6#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 13.358 ug/l

RT: 7.075 min Scan# 933

Delta R.T. -0.088 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

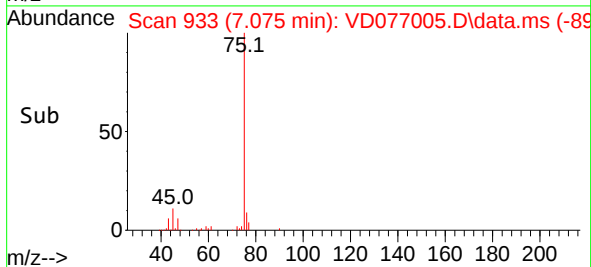
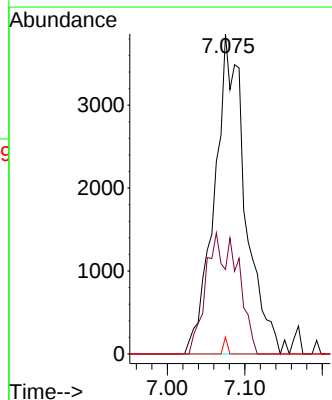
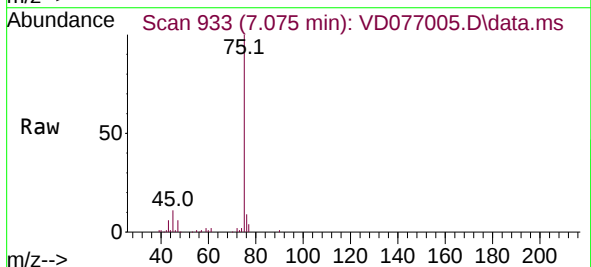
Tgt Ion: 43 Resp: 10639

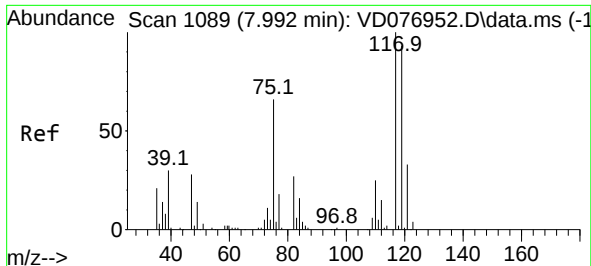
Ion Ratio Lower Upper

43 100

61 23.1 14.9 22.3#

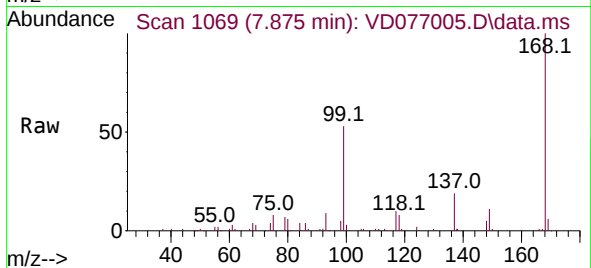
70 0.7 10.0 15.0#



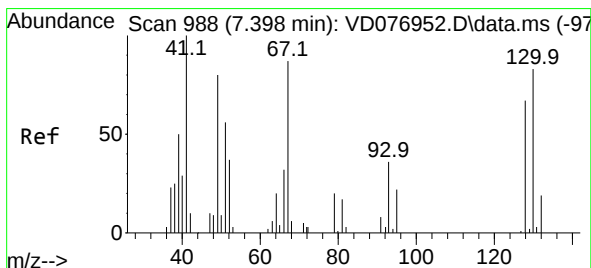
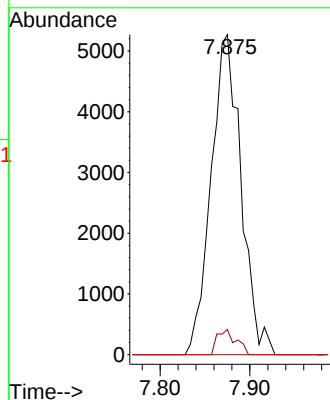
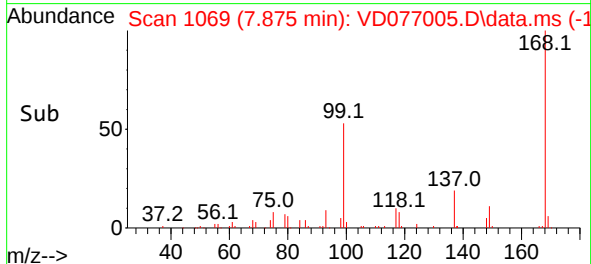


#38
Carbon Tetrachloride
Concen: 6.611 ug/l
RT: 7.875 min Scan# 1089
Delta R.T. -0.117 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Instrument :
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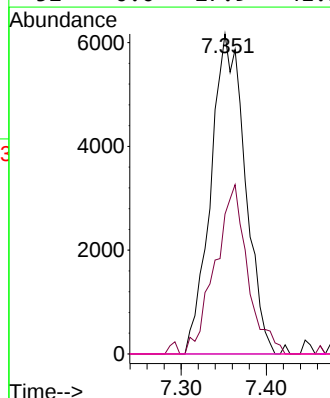
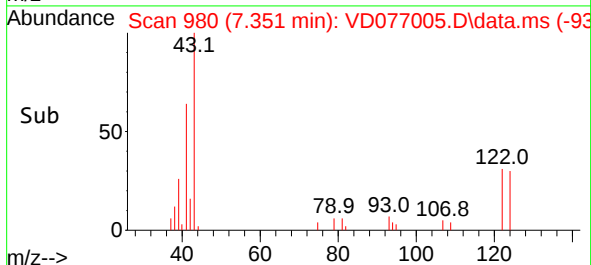
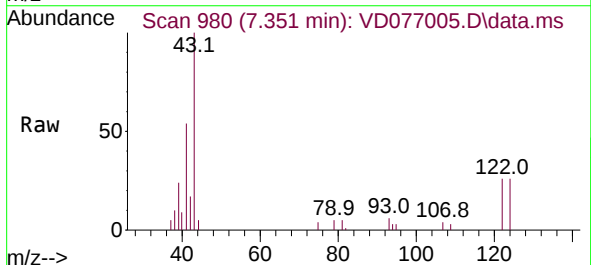


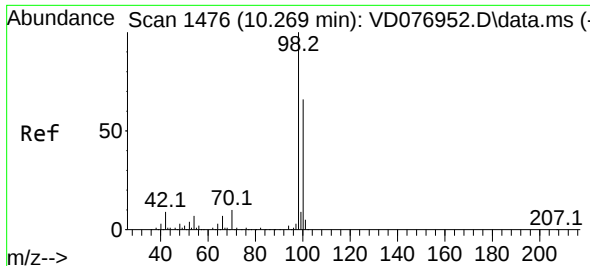
Tgt Ion:117 Resp: 12212
Ion Ratio Lower Upper
117 100
119 7.9 78.0 117.0#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 40.250 ug/l
RT: 7.351 min Scan# 980
Delta R.T. -0.047 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 41 Resp: 17298
Ion Ratio Lower Upper
41 100
39 49.7 34.0 51.0
67 0.0 77.0 115.4#
52 0.0 27.9 41.9#

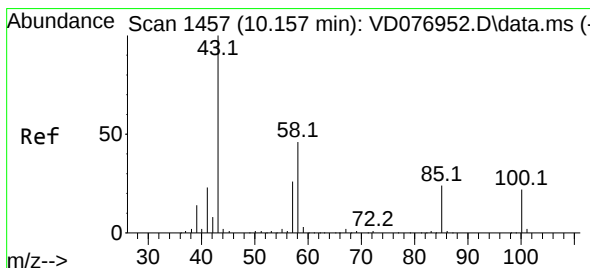
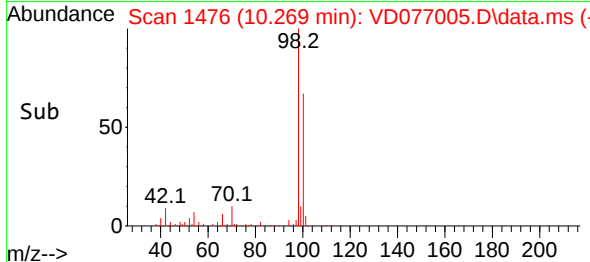
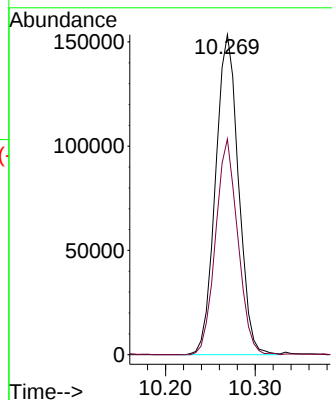
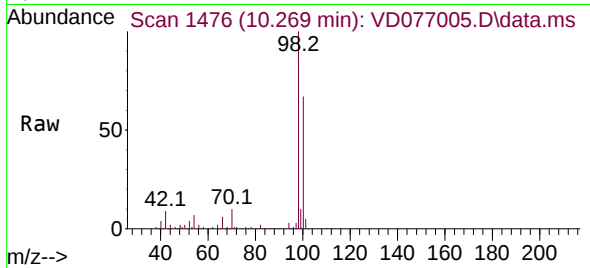




#50
Toluene-d8
Concen: 60.802 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

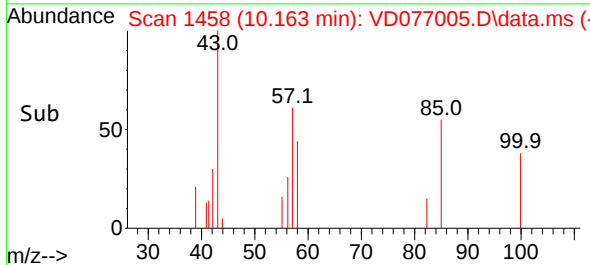
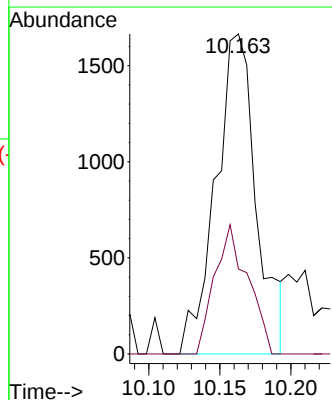
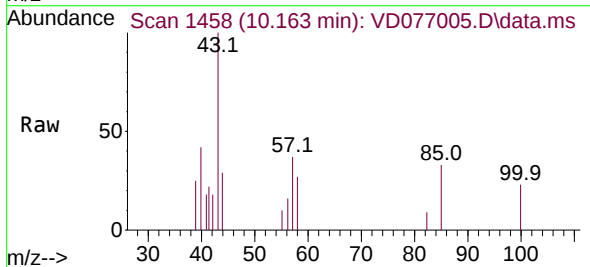
Instrument :
MSVOA_D
ClientSampleId :
20071

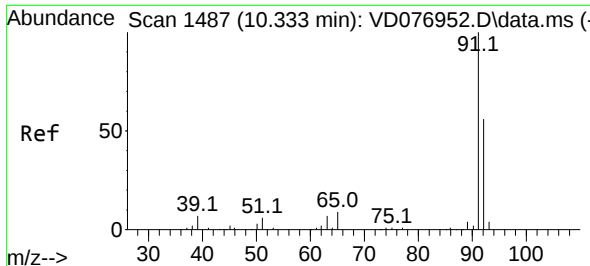
Tgt Ion: 98 Resp: 272583
Ion Ratio Lower Upper
98 100
100 65.3 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 4.020 ug/l
RT: 10.163 min Scan# 1458
Delta R.T. 0.006 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 43 Resp: 3321
Ion Ratio Lower Upper
43 100
58 32.8 38.9 58.3#

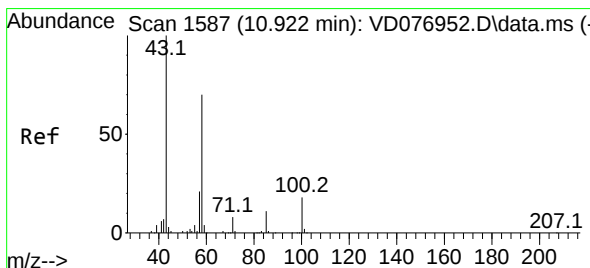
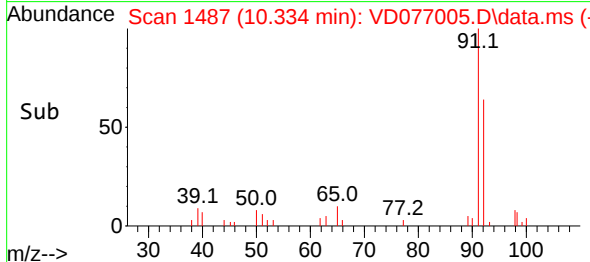
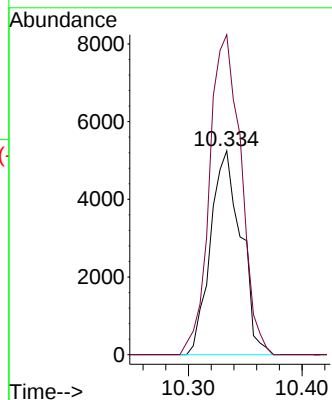
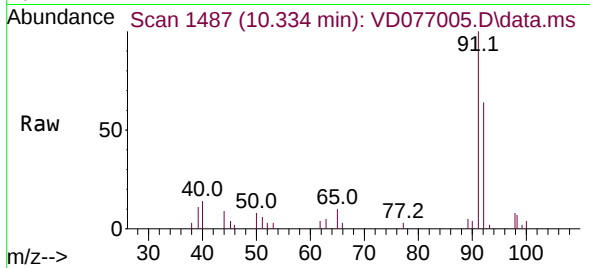




#52
Toluene
Concen: 2.695 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. 0.001 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

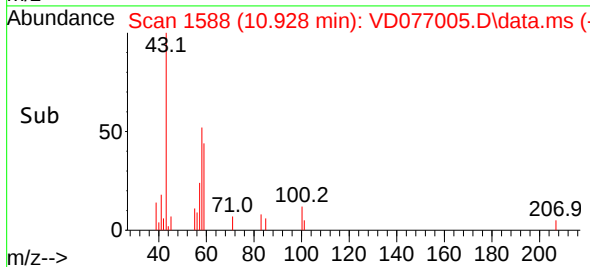
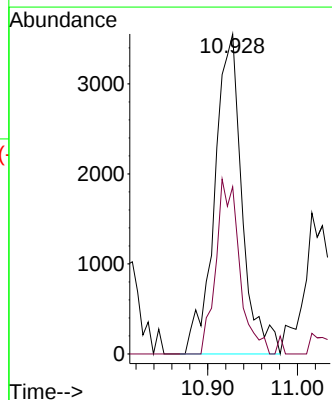
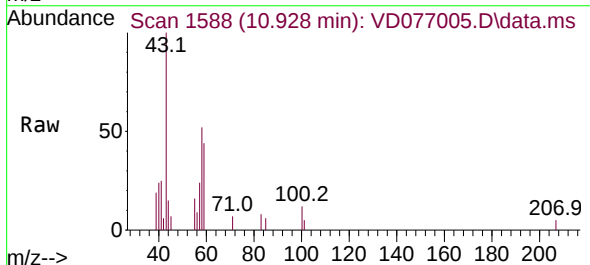
Instrument :
MSVOA_D
ClientSampleId :
20071

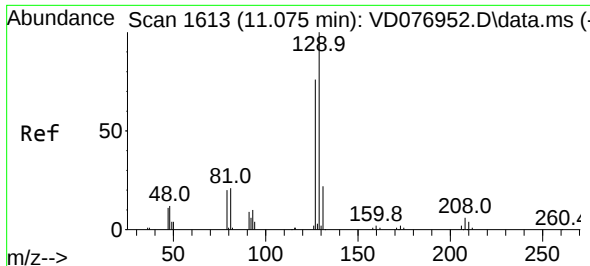
Tgt Ion: 92 Resp: 9824
Ion Ratio Lower Upper
92 100
91 161.2 143.0 214.4



#59
2-Hexanone
Concen: 13.427 ug/l
RT: 10.928 min Scan# 1588
Delta R.T. 0.006 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 43 Resp: 7551
Ion Ratio Lower Upper
43 100
58 46.8 34.1 102.2

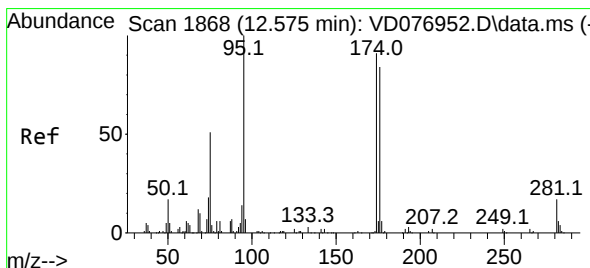
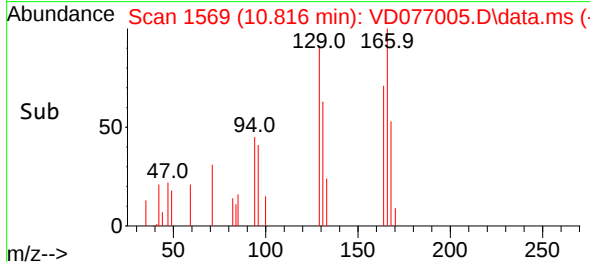
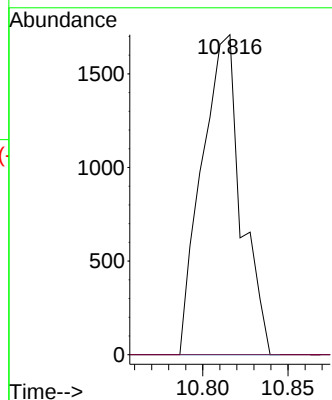
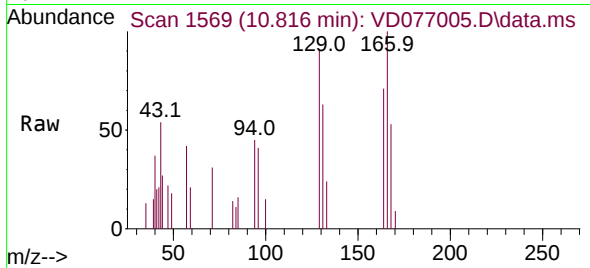




#60
Dibromochloromethane
Concen: 1.714 ug/l
RT: 10.816 min Scan# 11
Delta R.T. -0.259 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

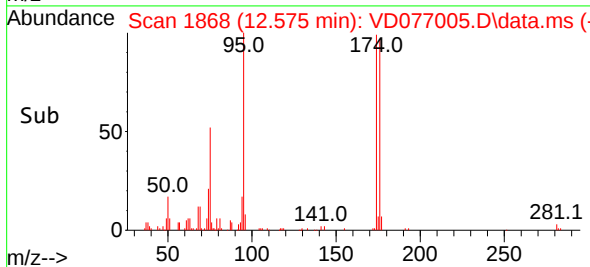
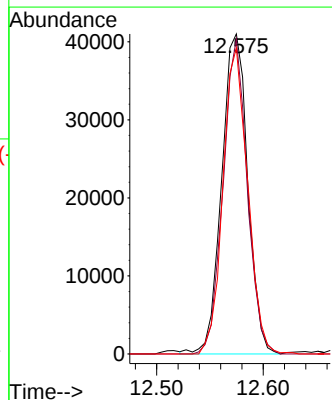
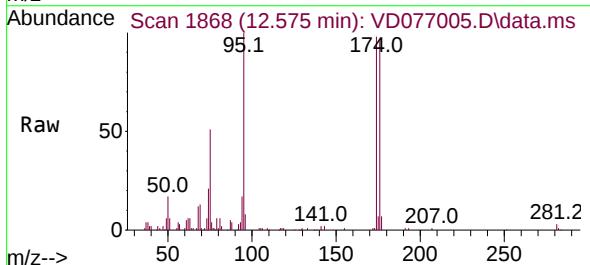
Instrument :
MSVOA_D
ClientSampleId :
20071

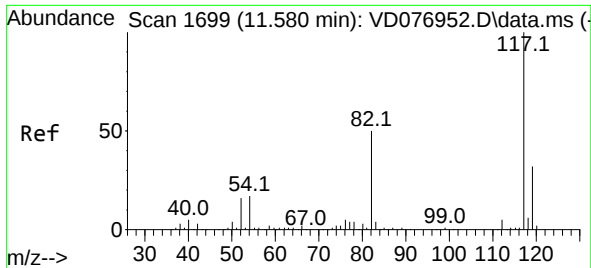
Tgt Ion:129 Resp: 2741
Ion Ratio Lower Upper
129 100
127 0.0 37.1 111.5#



#62
4-Bromofluorobenzene
Concen: 44.422 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 95 Resp: 69621
Ion Ratio Lower Upper
95 100
174 90.9 0.0 201.8
176 90.9 0.0 191.8

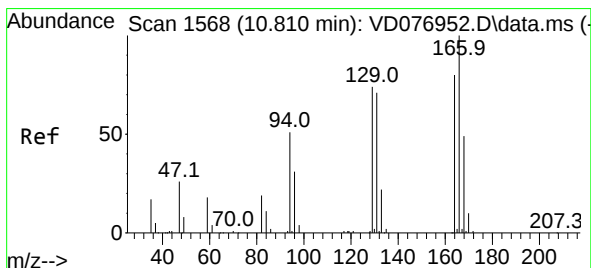
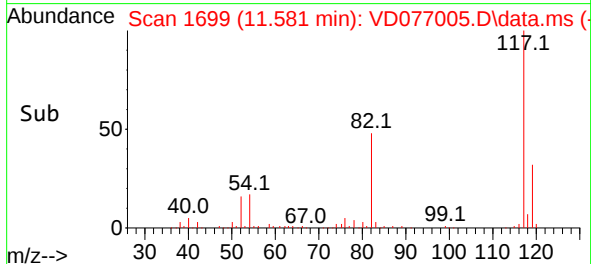
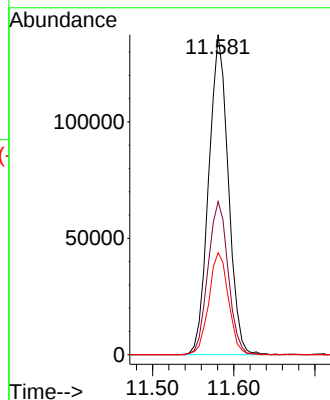
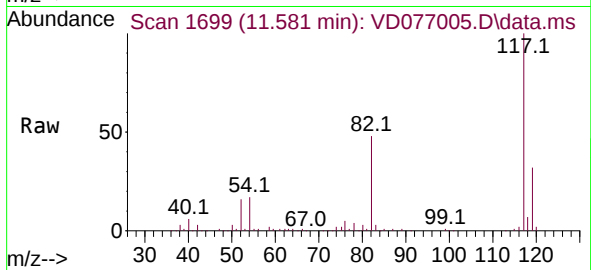




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. 0.001 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

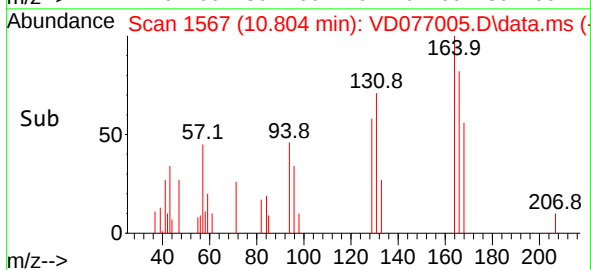
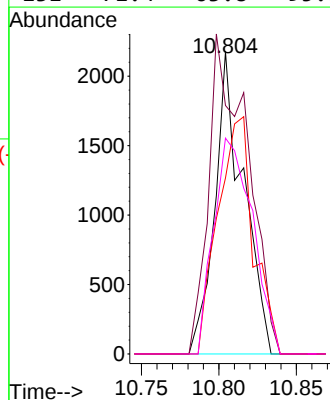
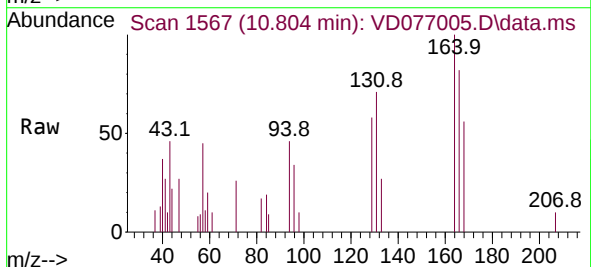
Instrument :
MSVOA_D
ClientSampleId :
20071

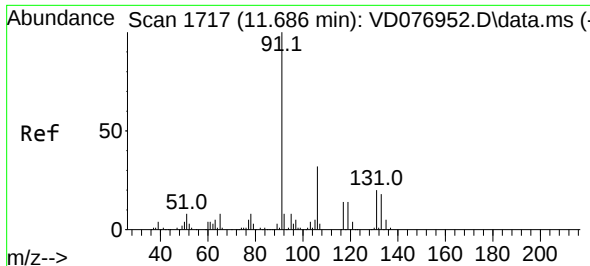
Tgt Ion:117 Resp: 229640
Ion Ratio Lower Upper
117 100
82 47.8 38.3 57.5
119 31.8 25.0 37.4



#64
Tetrachloroethene
Concen: 2.408 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion:164 Resp: 2783
Ion Ratio Lower Upper
164 100
166 82.2 99.2 148.8#
129 58.2 68.4 102.6#
131 71.4 63.8 95.8





#67

Ethyl Benzene

Concen: 1.706 ug/l

RT: 11.687 min Scan# 1717

Delta R.T. 0.001 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

Instrument :

MSVOA_D

ClientSampleId :

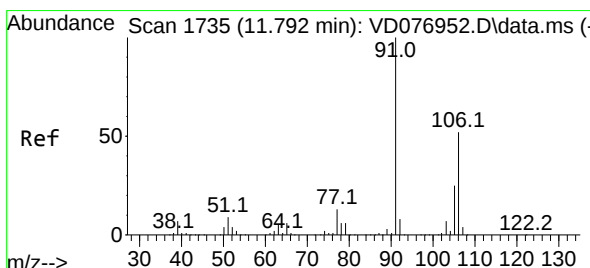
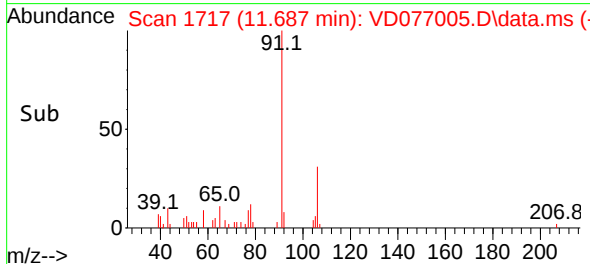
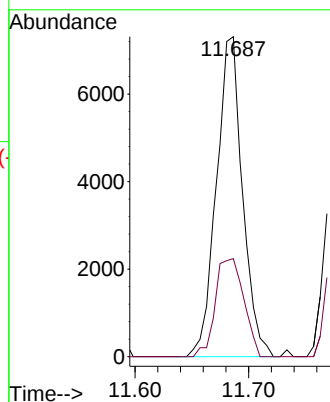
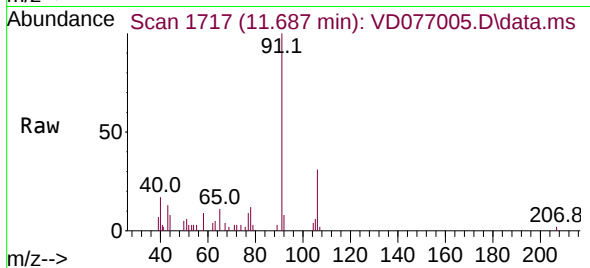
20071

Tgt Ion: 91 Resp: 11691

Ion Ratio Lower Upper

91 100

106 30.7 26.5 39.7



#68

m/p-Xylenes

Concen: 5.027 ug/l

RT: 11.787 min Scan# 1734

Delta R.T. -0.005 min

Lab File: VD077005.D

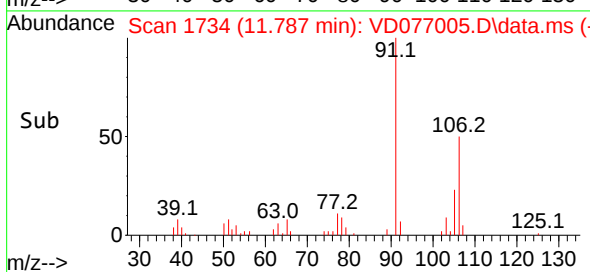
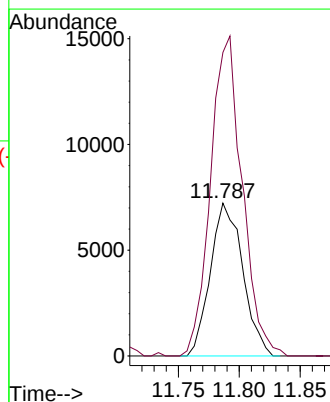
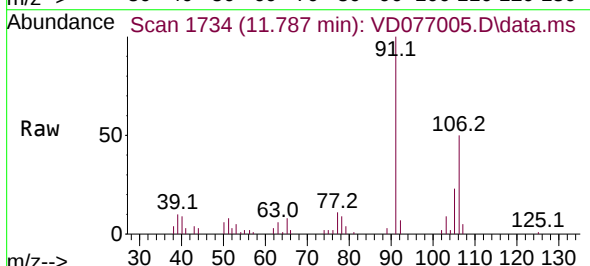
Acq: 14 Aug 2023 17:07

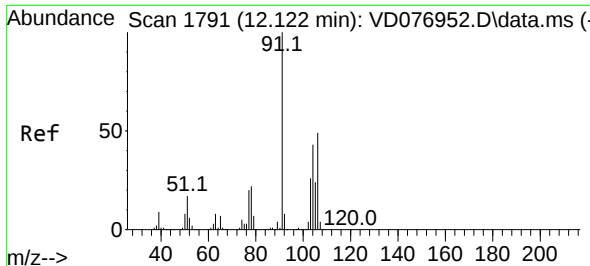
Tgt Ion: 106 Resp: 13382

Ion Ratio Lower Upper

106 100

91 204.9 147.0 220.6

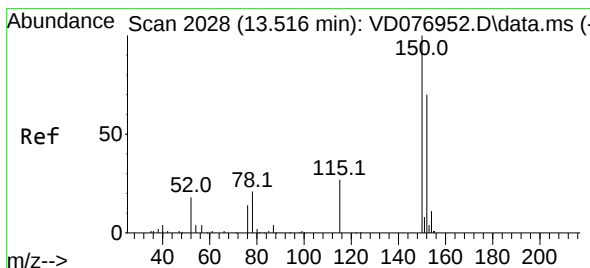
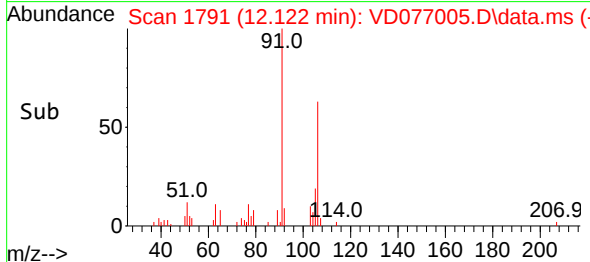
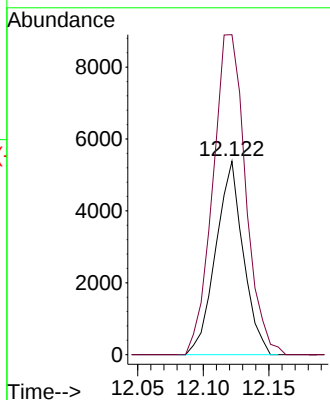
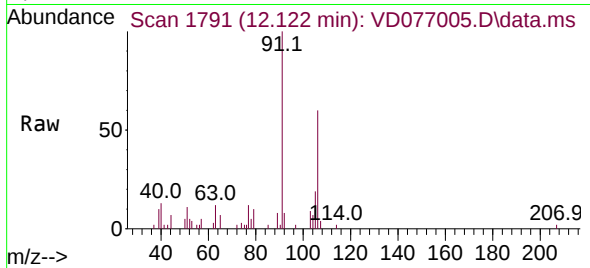




#69
o-Xylene
Concen: 3.081 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

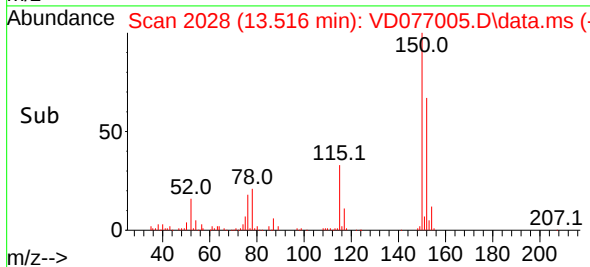
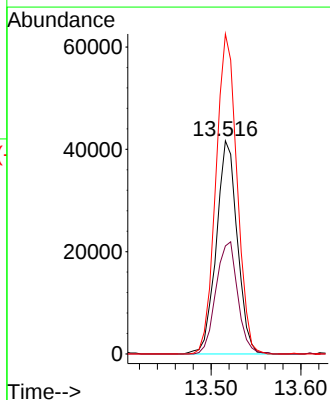
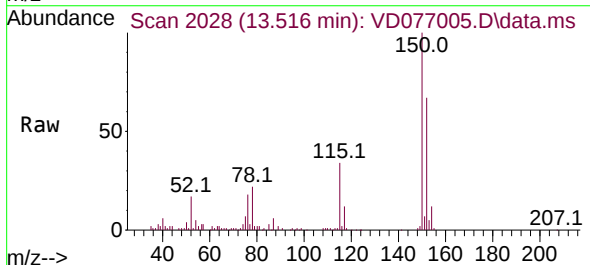
Instrument :
MSVOA_D
ClientSampleId :
20071

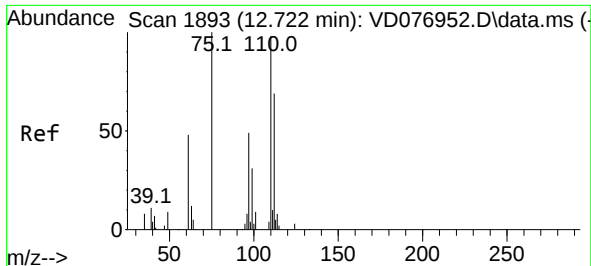
Tgt Ion:106 Resp: 7865
Ion Ratio Lower Upper
106 100
91 196.4 97.9 293.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion:152 Resp: 67749
Ion Ratio Lower Upper
152 100
115 54.4 27.1 81.3
150 150.4 0.0 353.6

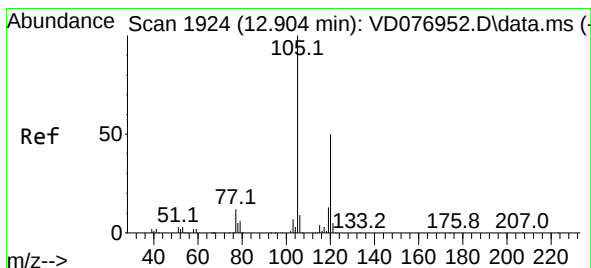
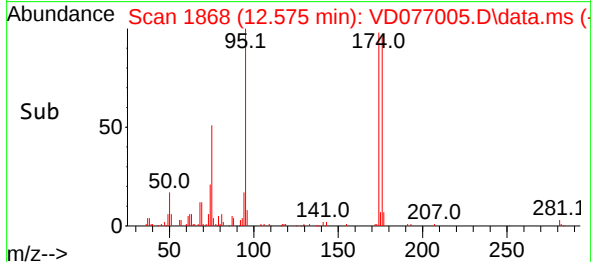
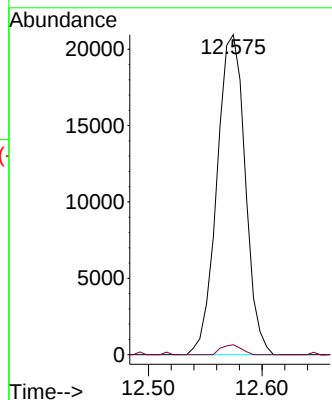
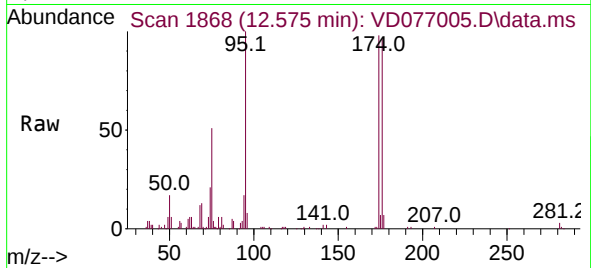




#76
1,2,3-Trichloropropane
Concen: 56.906 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

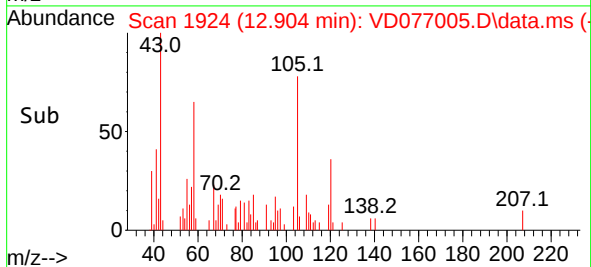
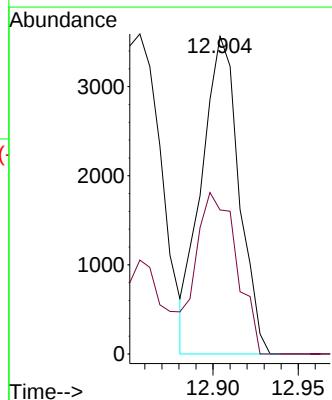
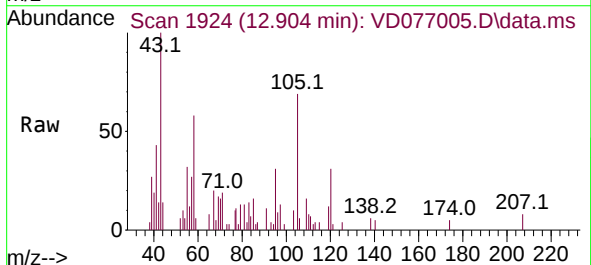
Instrument :
MSVOA_D
ClientSampleId :
20071

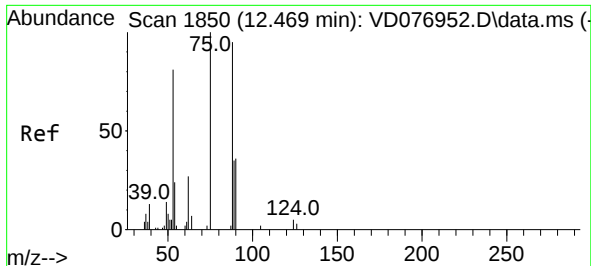
Tgt Ion: 75 Resp: 36167
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.578 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 105 Resp: 5459
Ion Ratio Lower Upper
105 100
120 54.4 26.4 79.2

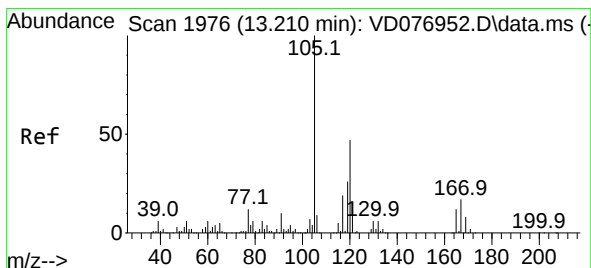
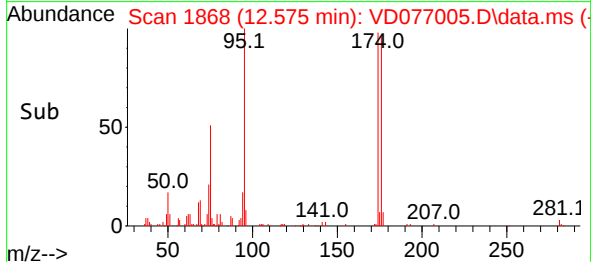
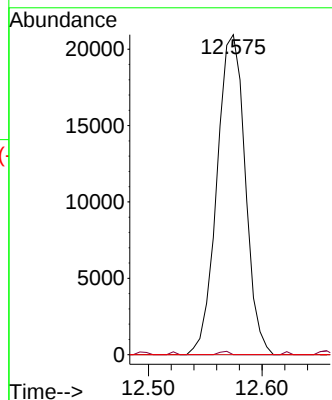
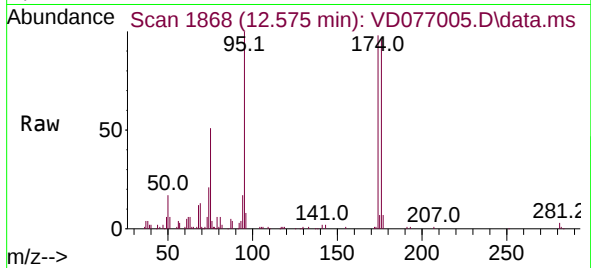




#81
trans-1,4-Dichloro-2-butene
Concen: 133.697 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

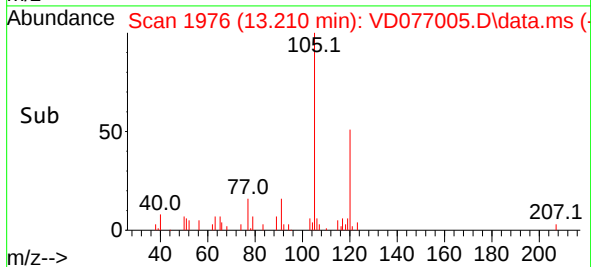
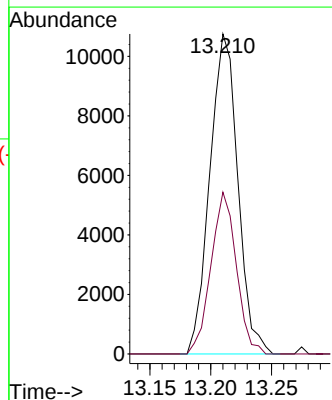
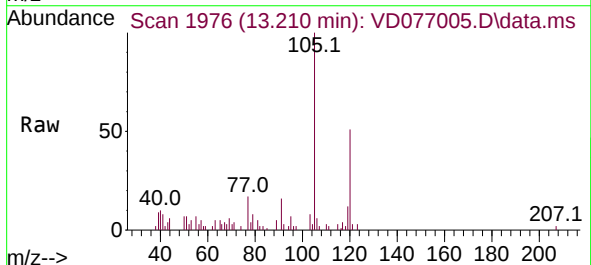
Instrument :
MSVOA_D
ClientSampleId :
20071

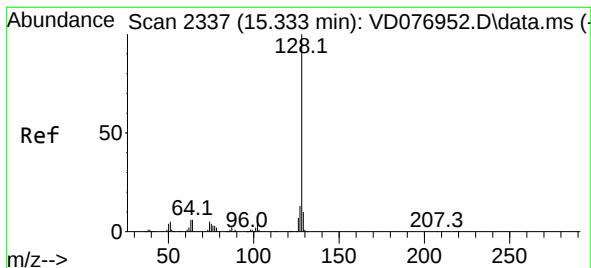
Tgt Ion: 75 Resp: 36167
Ion Ratio Lower Upper
75 100
53 0.4 63.0 94.4#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 4.881 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VD077005.D
Acq: 14 Aug 2023 17:07

Tgt Ion: 105 Resp: 17212
Ion Ratio Lower Upper
105 100
120 45.8 24.3 72.9





#95

Naphthalene

Concen: 4.077 ug/l

RT: 15.339 min Scan# 21

Delta R.T. 0.006 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

Instrument :

MSVOA_D

ClientSampleId :

20071

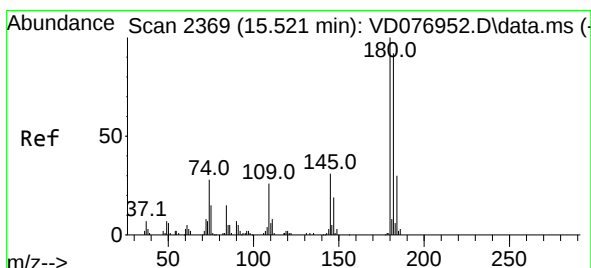
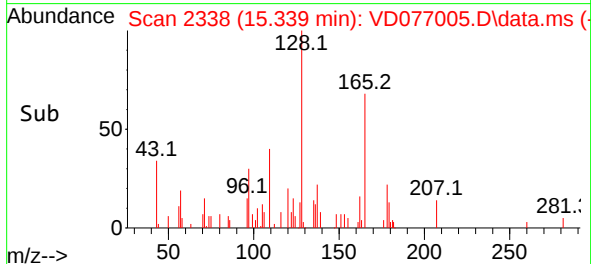
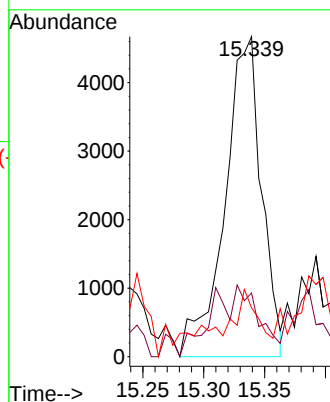
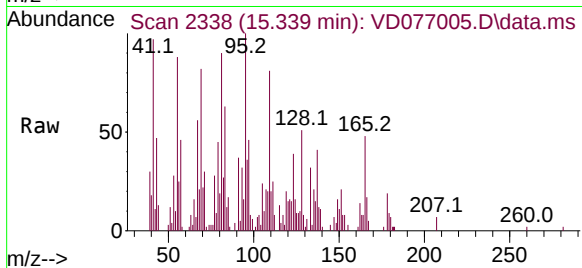
Tgt Ion:128 Resp: 9812

Ion Ratio Lower Upper

128 100

127 19.9 10.5 15.7#

129 15.2 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 1.233 ug/l

RT: 15.651 min Scan# 2391

Delta R.T. 0.130 min

Lab File: VD077005.D

Acq: 14 Aug 2023 17:07

Tgt Ion:180 Resp: 1301

Ion Ratio Lower Upper

180 100

182 58.6 47.3 141.9

145 33.2 15.1 45.3

