

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121523\
 Data File : VD077921.D
 Acq On : 16 Dec 2023 01:23
 Operator : RP/MD
 Sample : 05793-01
 Misc : 5.01G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 05:12:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 14:48:10 2023
 Response via : Initial Calibration

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

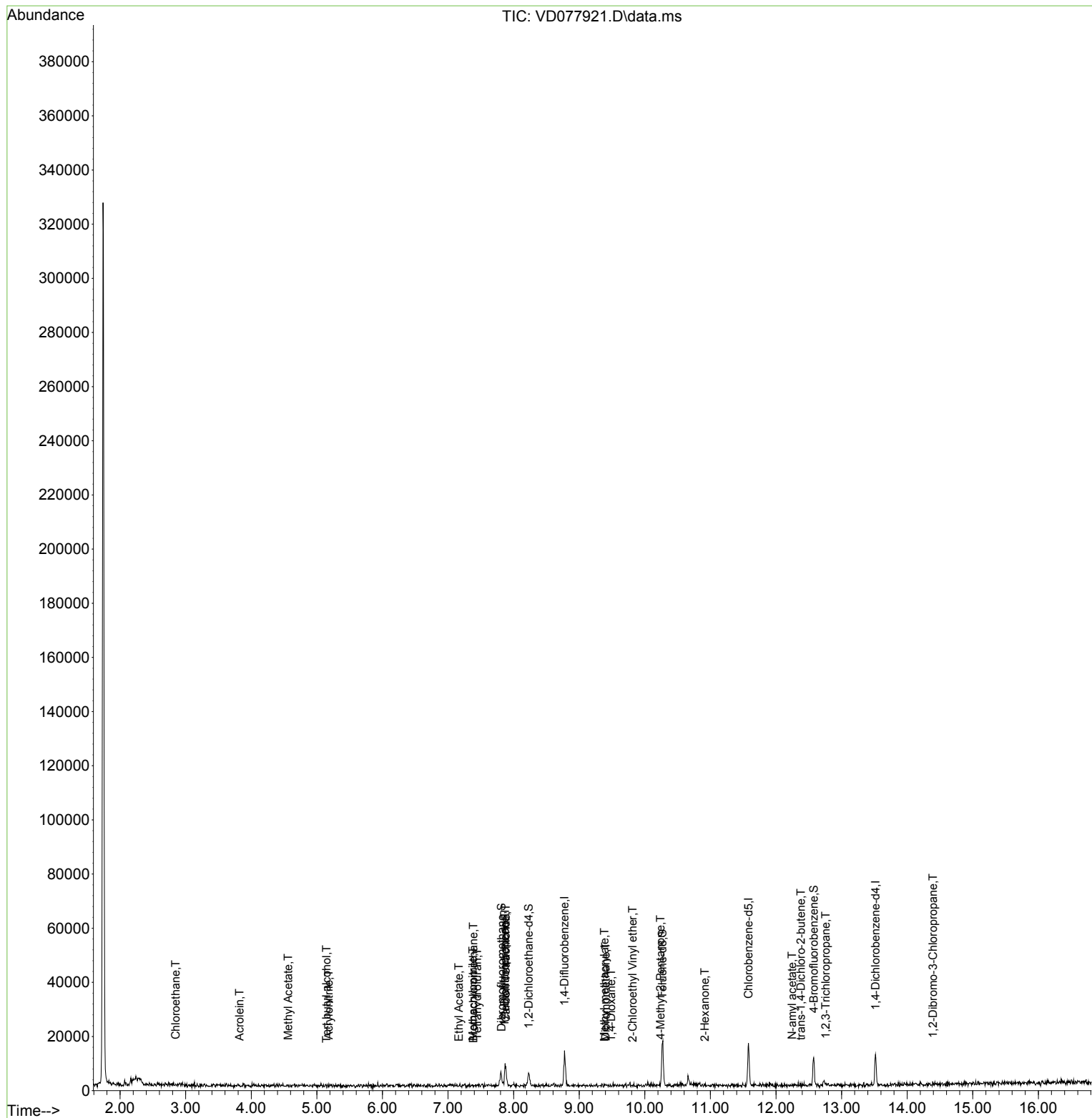
Internal Standards						
1) Pentafluorobenzene	7.869	168	5836	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	10030	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	9404	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	3125	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	3759	54.661	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.320%			
35) Dibromofluoromethane	7.816	113	3309	47.099	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.200%			
50) Toluene-d8	10.269	98	11721	41.654	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 83.300%			
62) 4-Bromofluorobenzene	12.575	95	2984	35.470	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.940%			
Target Compounds						Qvalue
6) Chloroethane	2.846	64	132	1.435	ug/l #	43
11) Tert butyl alcohol	5.146	59	70	10.331	ug/l #	73
13) Acrolein	3.822	56	58	7.973	ug/l #	15
15) Acrylonitrile	5.181	53	54	3.615	ug/l #	1
16) Acetone	4.028	43	144	Below Cal	#	32
18) Methyl Acetate	4.564	43	102	1.883	ug/l #	42
20) Methylene Chloride	4.975	84	58	Below Cal	#	17
25) 2-Butanone	7.005	43	64	Below Cal	#	37
28) Bromochloromethane	7.387	49	60	1.088	ug/l #	1
29) Tetrahydrofuran	7.446	42	55	5.022	ug/l #	23
36) 1,1-Dichloropropene	7.863	75	818	7.279	ug/l #	39
37) Ethyl Acetate	7.163	43	61	1.392	ug/l #	62
38) Carbon Tetrachloride	7.881	117	511	4.561	ug/l #	11
41) Methacrylonitrile	7.381	41	57	2.559	ug/l #	1
46) Dibromomethane	9.404	93	58	1.414	ug/l #	2
48) Methyl methacrylate	9.387	41	72	1.626	ug/l #	1
49) 1,4-Dioxane	9.487	88	63	154.648	ug/l #	1
51) 4-Methyl-2-Pentanone	10.240	43	58	1.459	ug/l #	28
58) 2-Chloroethyl Vinyl ether	9.816	63	58	2.056	ug/l #	43
59) 2-Hexanone	10.916	43	95	2.880	ug/l #	16
74) N-amyl acetate	12.245	43	57	1.224	ug/l #	35
76) 1,2,3-Trichloropropane	12.757	75	58	2.137	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.381	75	60	4.479	ug/l #	46
92) 1,2-Dibromo-3-Chloropr...	14.392	75	65	10.083	ug/l #	1

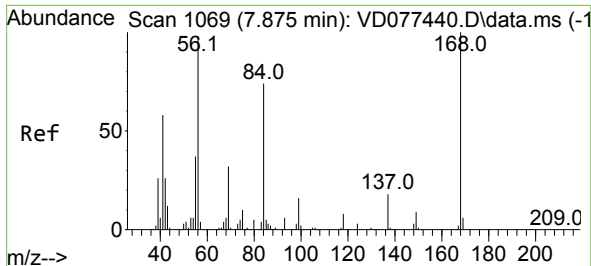
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD077921.D
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Quant Time: Dec 16 05:12:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 14 14:48:10 2023
Response via : Initial Calibration

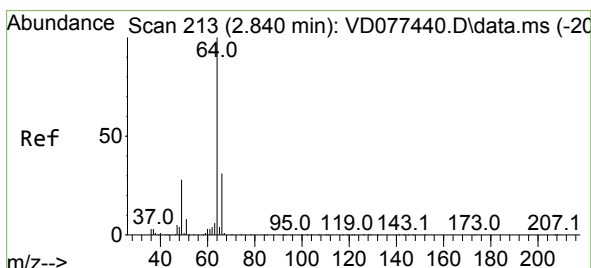
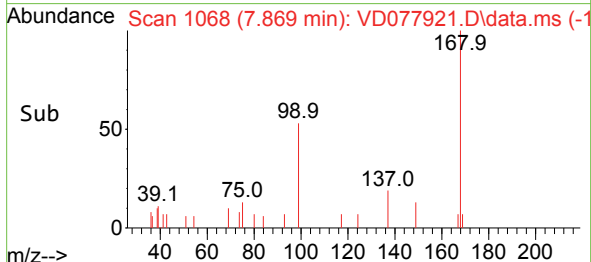
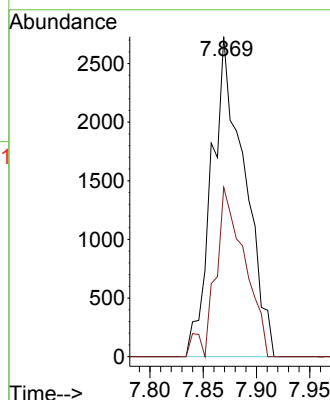
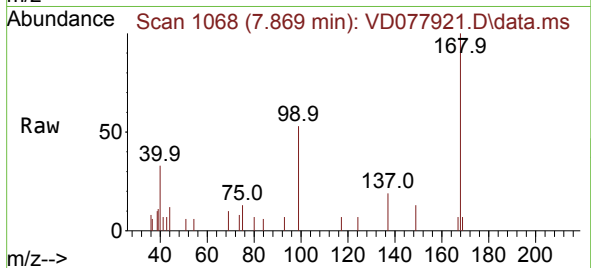




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

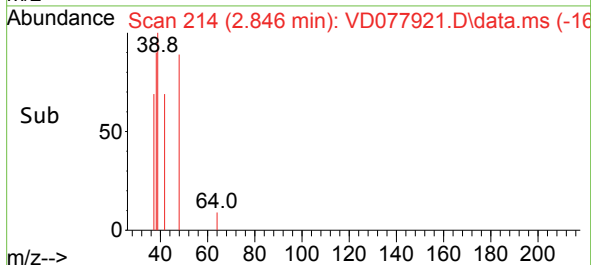
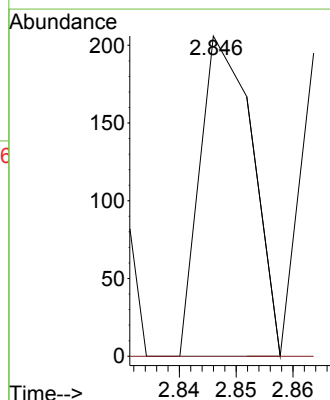
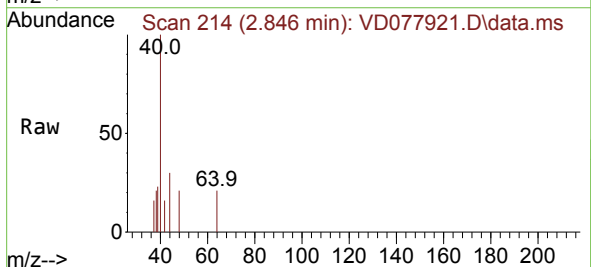
Instrument :
MSVOA_D
ClientSampleId :

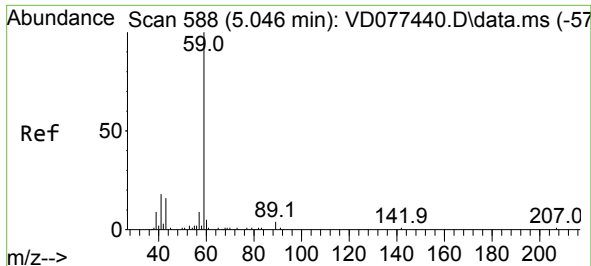
Tgt Ion:168 Resp: 5836
Ion Ratio Lower Upper
168 100
99 52.9 36.7 55.1



#6
Chloroethane
Concen: 1.435 ug/l
RT: 2.846 min Scan# 214
Delta R.T. 0.006 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

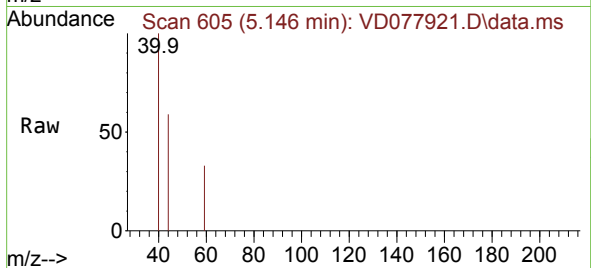
Tgt Ion: 64 Resp: 132
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



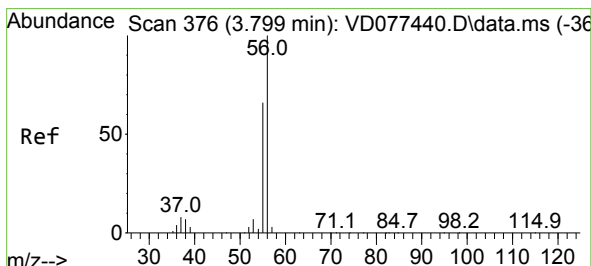
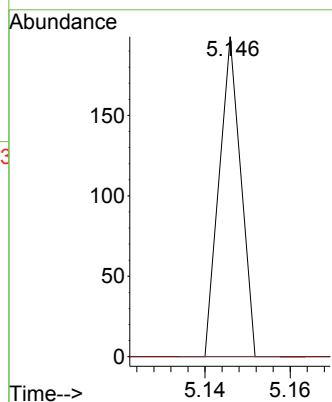


#11
Tert butyl alcohol
Concen: 10.331 ug/l
RT: 5.146 min Scan# 60
Delta R.T. 0.100 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
MSVOA_D
ClientSampleId :

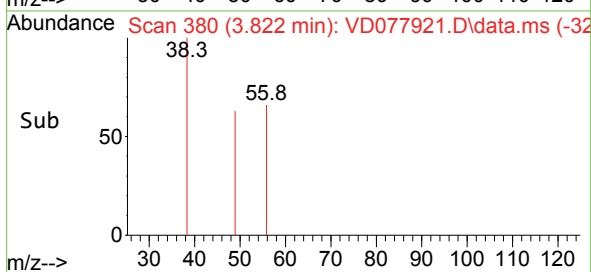
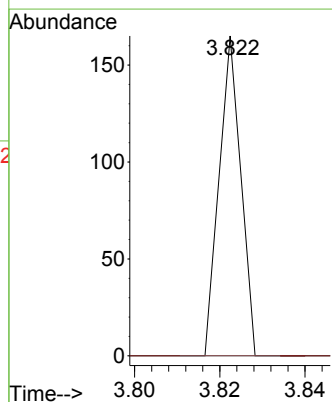
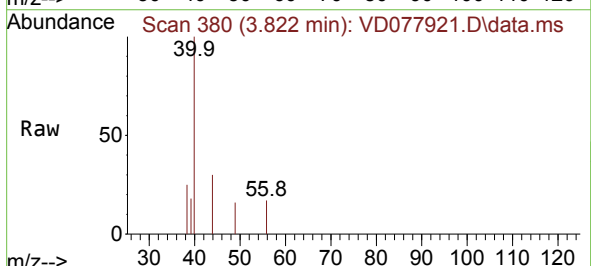


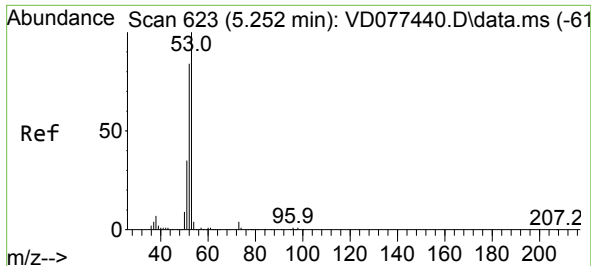
Tgt Ion: 59 Resp: 70
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#13
Acrolein
Concen: 7.973 ug/l
RT: 3.822 min Scan# 380
Delta R.T. 0.023 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

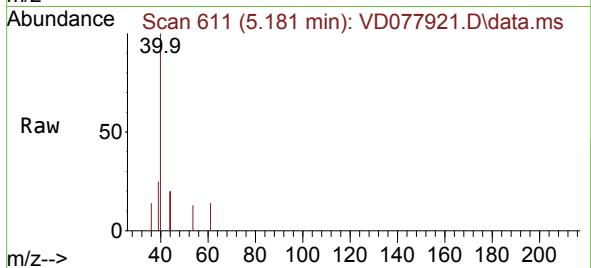
Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



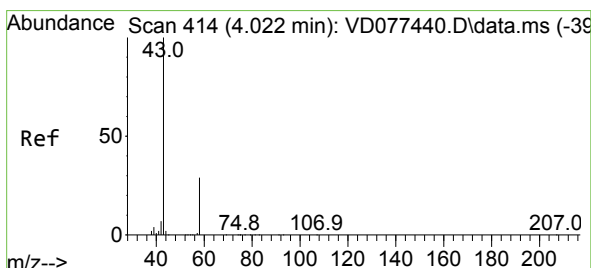
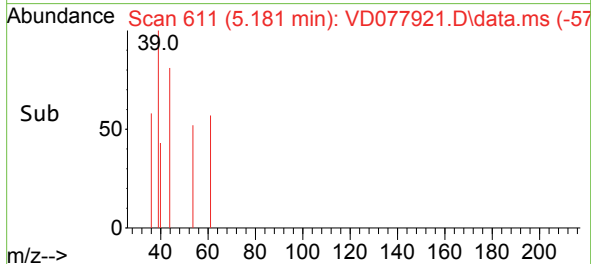
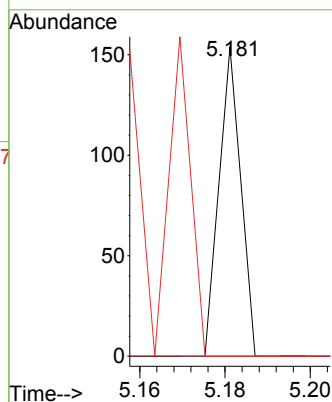


#15
Acrylonitrile
Concen: 3.615 ug/l
RT: 5.181 min Scan# 611
Delta R.T. -0.071 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
MSVOA_D
ClientSampleId :

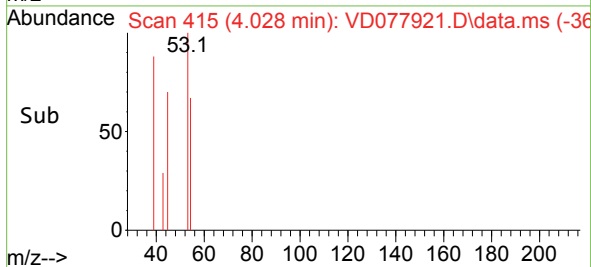
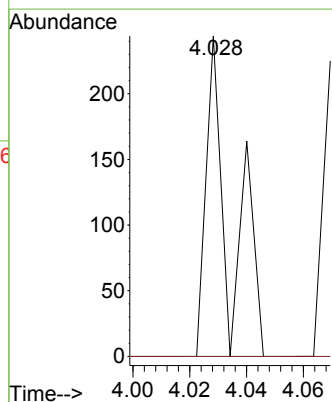
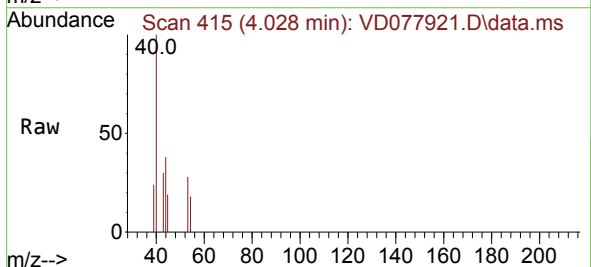


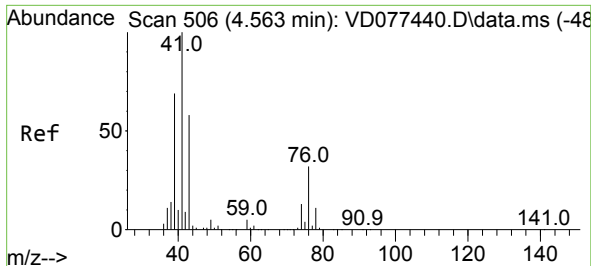
Tgt Ion: 53 Resp: 54
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 203.7 28.3 42.5#



#16
Acetone
Concen: Below Cal
RT: 4.028 min Scan# 415
Delta R.T. 0.006 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Tgt Ion: 43 Resp: 144
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#

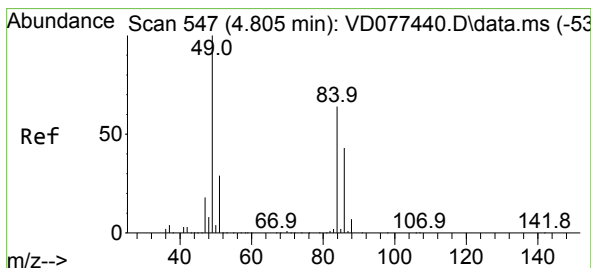
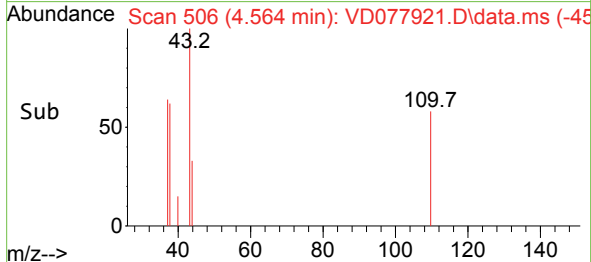
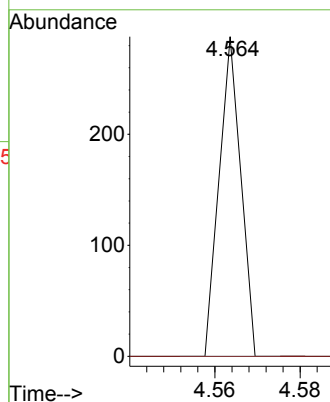
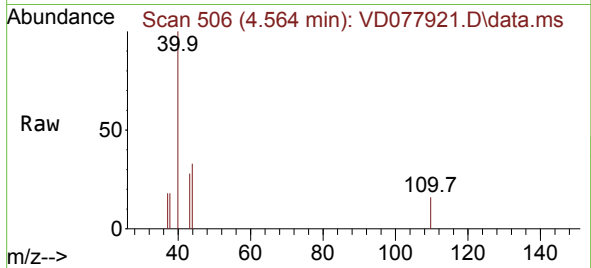




#18
Methyl Acetate
Concen: 1.883 ug/l
RT: 4.564 min Scan# 506
Delta R.T. 0.001 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

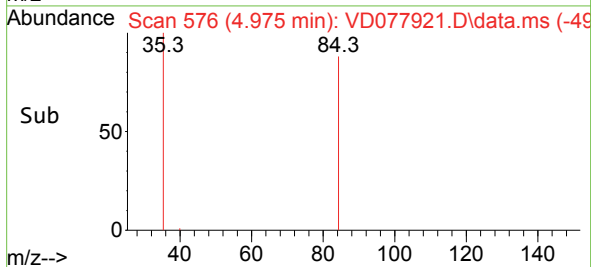
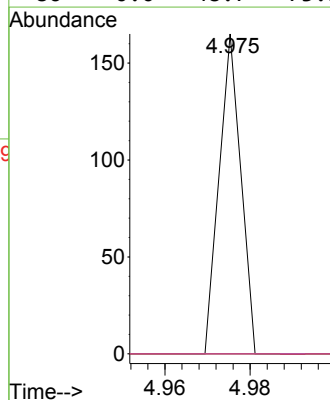
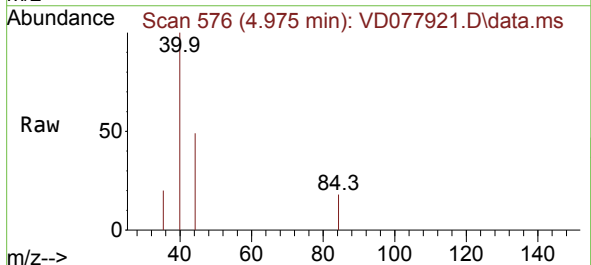
Instrument :
MSVOA_D
ClientSampleId :

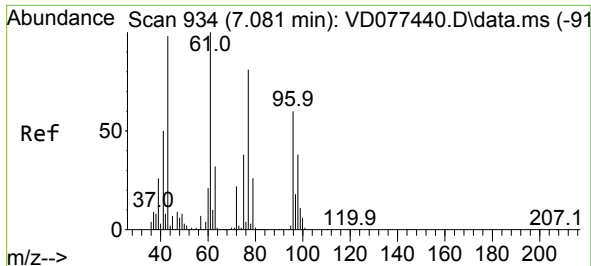
Tgt Ion: 43 Resp: 102
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.975 min Scan# 576
Delta R.T. 0.170 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

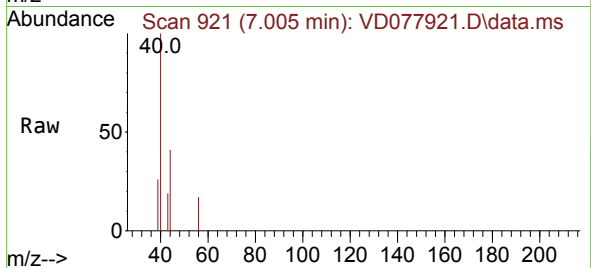
Tgt Ion: 84 Resp: 58
Ion Ratio Lower Upper
84 100
49 0.0 71.4 107.2#
51 0.0 24.5 36.7#
86 0.0 48.7 73.1#



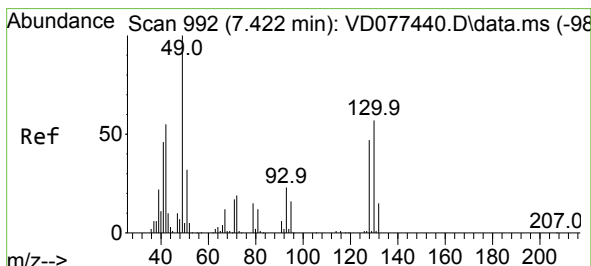
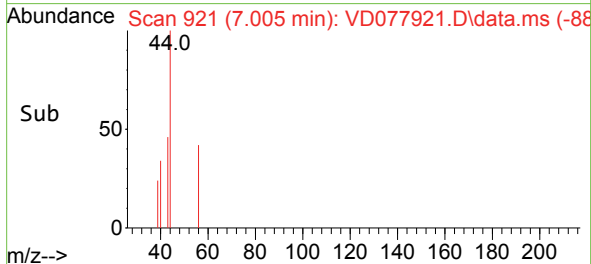
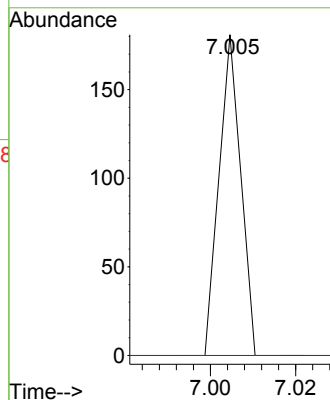


#25
2-Butanone
Concen: Below Cal
RT: 7.005 min Scan# 91
Delta R.T. -0.076 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
MSVOA_D
ClientSampleId :

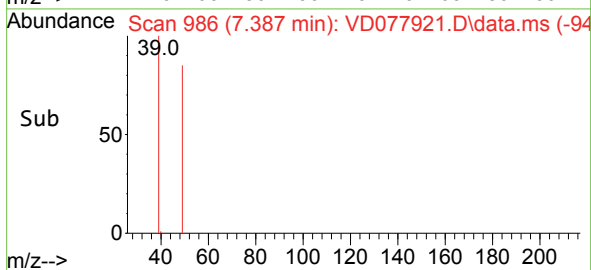
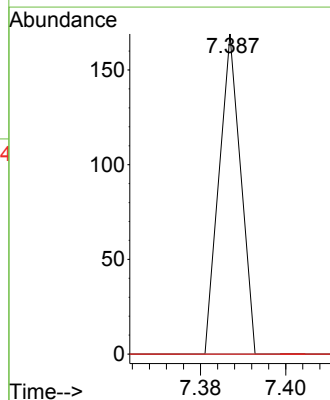
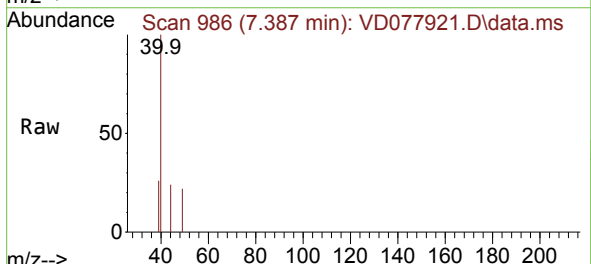


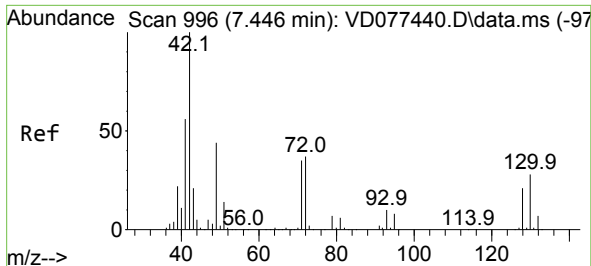
Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#28
Bromochloromethane
Concen: 1.088 ug/l
RT: 7.387 min Scan# 986
Delta R.T. -0.035 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

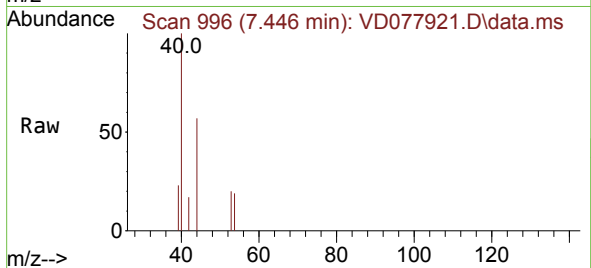
Tgt Ion: 49 Resp: 60
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 0.0 83.2 124.8#



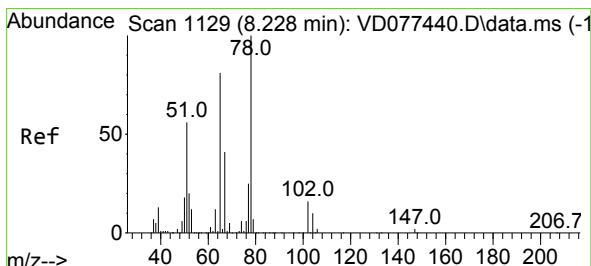
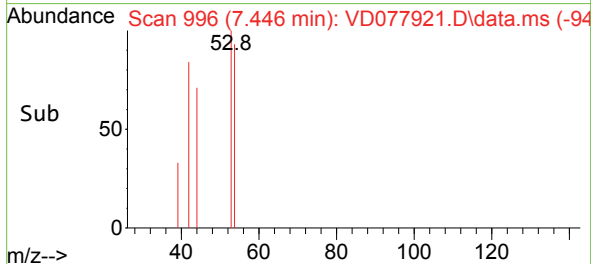
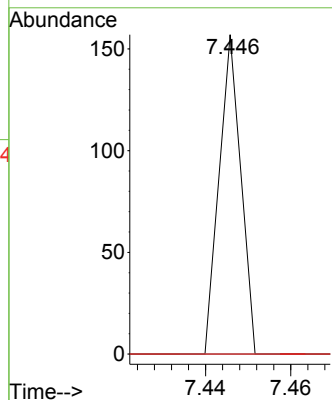


#29
Tetrahydrofuran
Concen: 5.022 ug/l
RT: 7.446 min Scan# 996
Delta R.T. -0.000 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
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ClientSampleId :

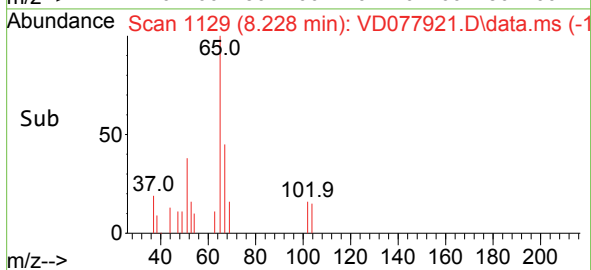
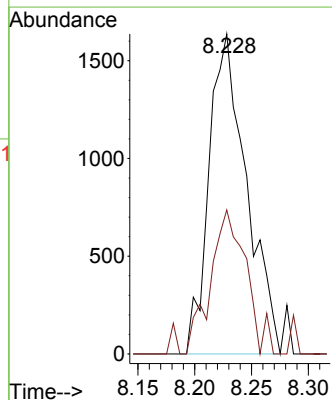
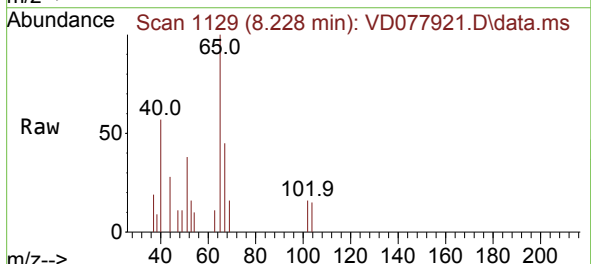


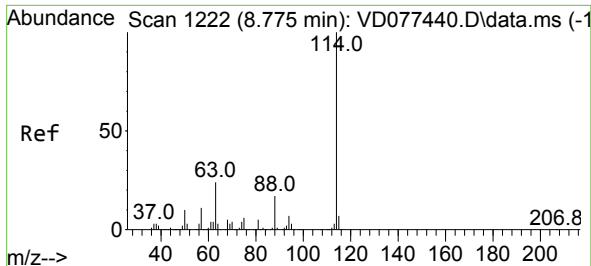
Tgt Ion: 42 Resp: 55
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#



#33
1,2-Dichloroethane-d4
Concen: 54.661 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

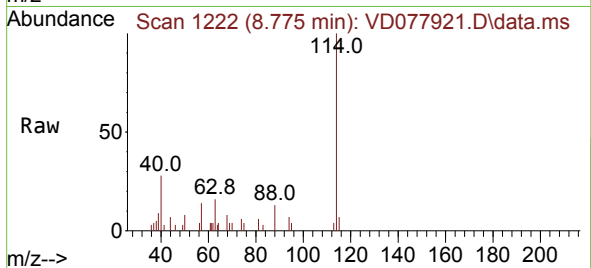
Tgt Ion: 65 Resp: 3759
Ion Ratio Lower Upper
65 100
67 42.6 0.0 115.0



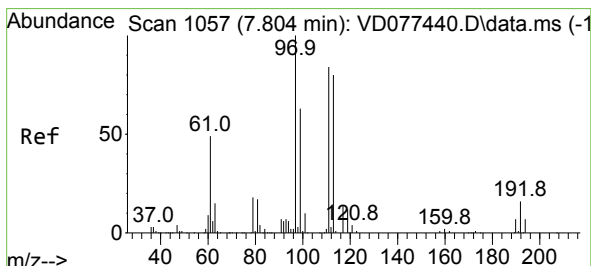
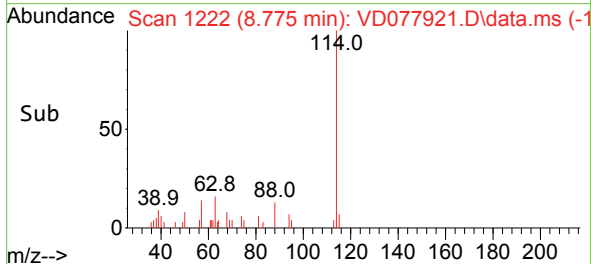
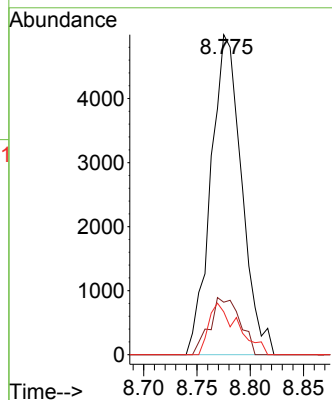


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
MSVOA_D
ClientSampleId :

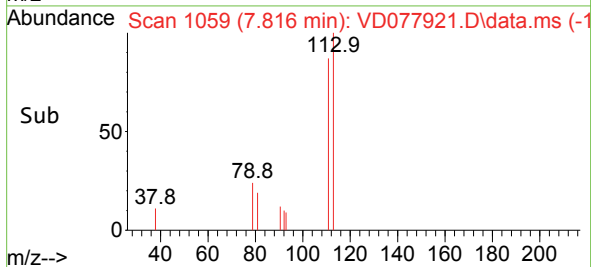
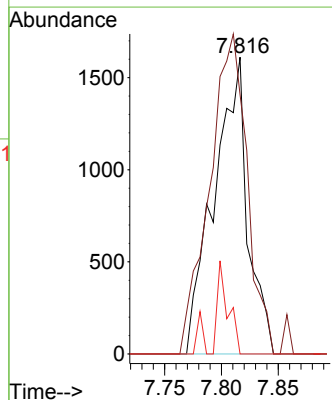
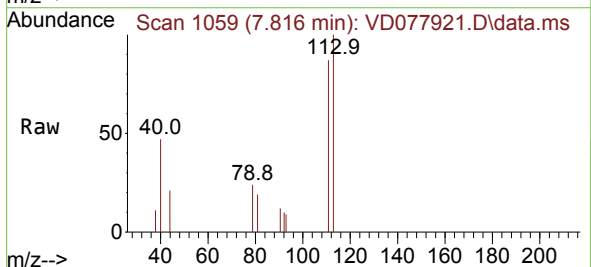


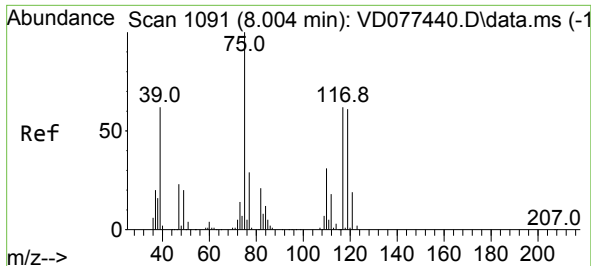
Tgt Ion:114 Resp: 10030
Ion Ratio Lower Upper
114 100
63 16.4 0.0 33.4
88 13.4 0.0 26.2



#35
Dibromofluoromethane
Concen: 47.099 ug/l
RT: 7.816 min Scan# 1059
Delta R.T. 0.012 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

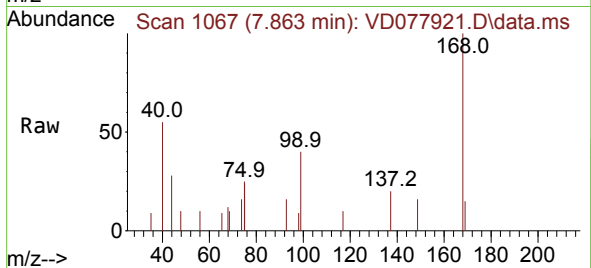
Tgt Ion:113 Resp: 3309
Ion Ratio Lower Upper
113 100
111 120.7 84.7 127.1
192 10.1 16.8 25.2#



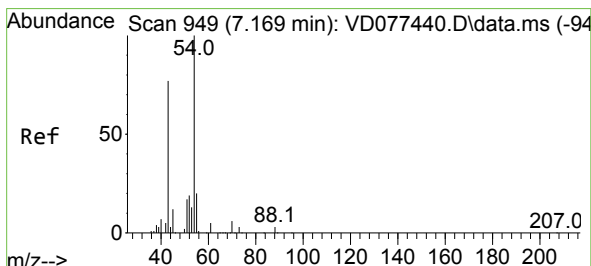
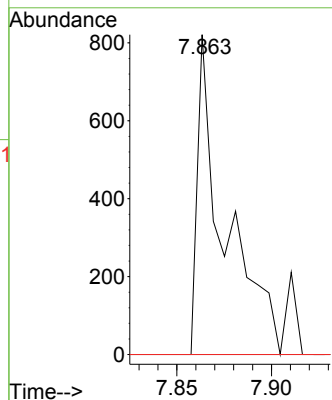
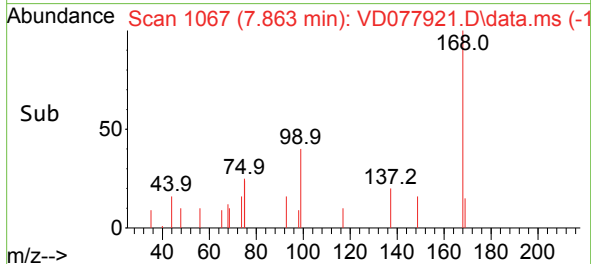


#36
1,1-Dichloropropene
Concen: 7.279 ug/l
RT: 7.863 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
MSVOA_D
ClientSampleId :

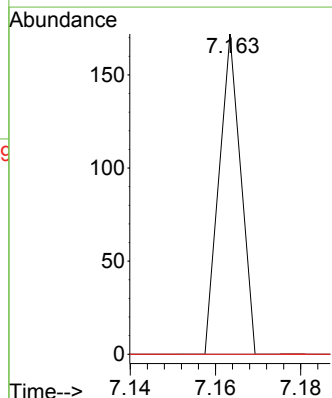
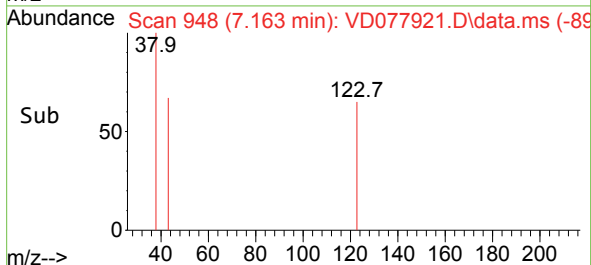
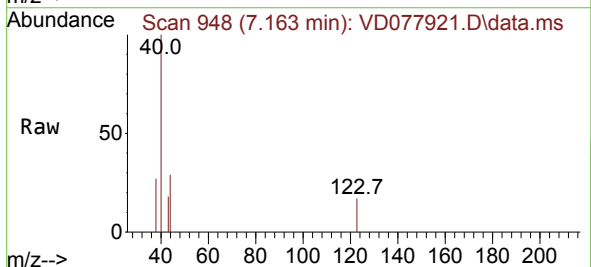


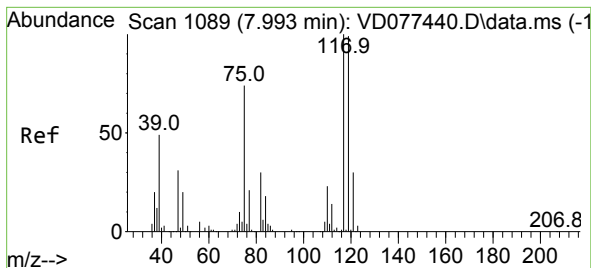
Tgt Ion: 75 Resp: 818
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.392 ug/l
RT: 7.163 min Scan# 948
Delta R.T. -0.006 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
70 0.0 10.0 15.0#





#38

Carbon Tetrachloride

Concen: 4.561 ug/l

RT: 7.881 min Scan# 1089

Delta R.T. -0.112 min

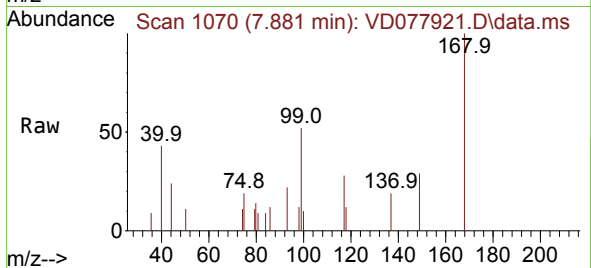
Lab File: VD077921.D

Acq: 16 Dec 2023 01:23

Instrument :

MSVOA_D

ClientSampleId :



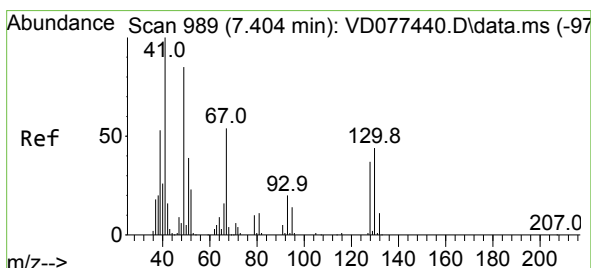
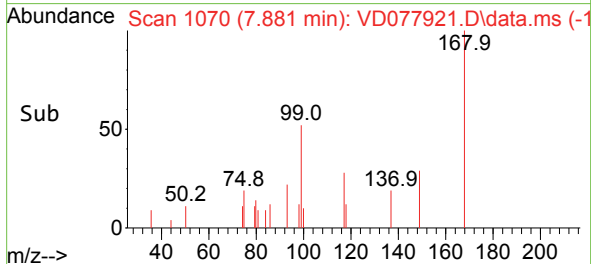
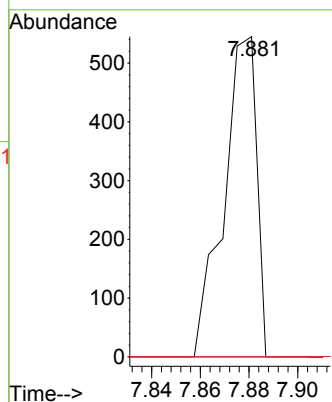
Tgt Ion:117 Resp: 511

Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#



#41

Methacrylonitrile

Concen: 2.559 ug/l

RT: 7.381 min Scan# 985

Delta R.T. -0.023 min

Lab File: VD077921.D

Acq: 16 Dec 2023 01:23

Tgt Ion: 41 Resp: 57

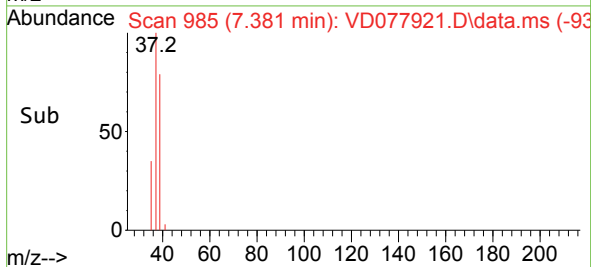
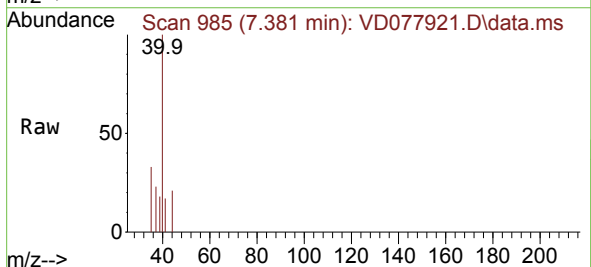
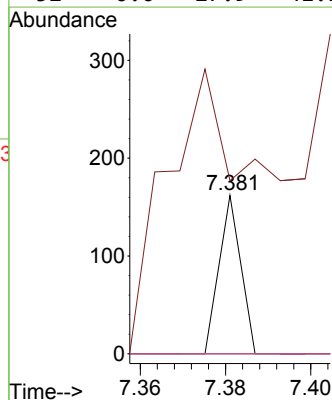
Ion Ratio Lower Upper

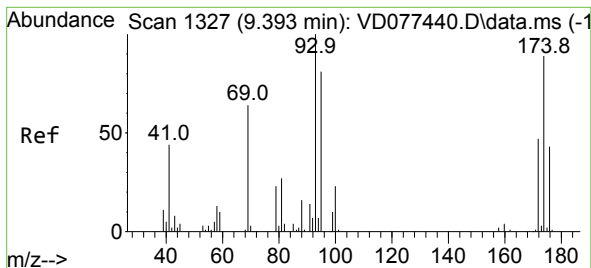
41 100

39 752.6 34.0 51.0#

67 0.0 77.0 115.4#

52 0.0 27.9 41.9#





#46

Dibromomethane

Concen: 1.414 ug/l

RT: 9.404 min Scan# 1329

Delta R.T. 0.011 min

Lab File: VD077921.D

Acq: 16 Dec 2023 01:23

Instrument :

MSVOA_D

ClientSampleId :

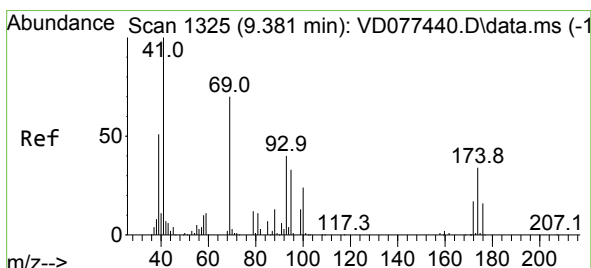
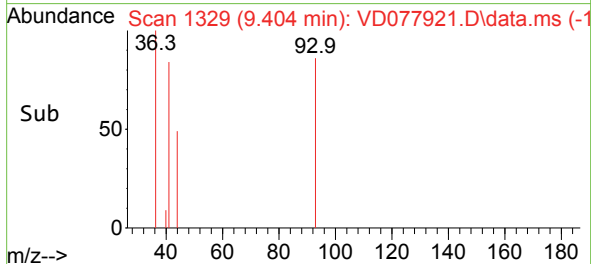
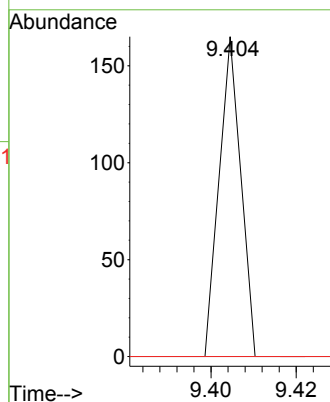
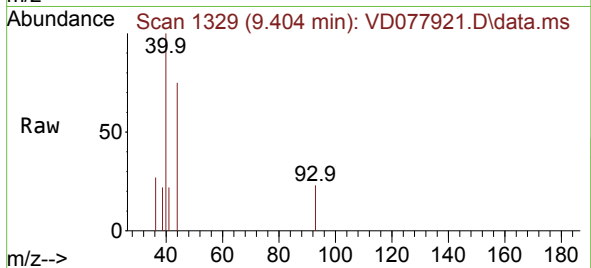
Tgt Ion: 93 Resp: 58

Ion Ratio Lower Upper

93 100

95 0.0 67.7 101.5#

174 0.0 85.4 128.2#



#48

Methyl methacrylate

Concen: 1.626 ug/l

RT: 9.387 min Scan# 1326

Delta R.T. 0.006 min

Lab File: VD077921.D

Acq: 16 Dec 2023 01:23

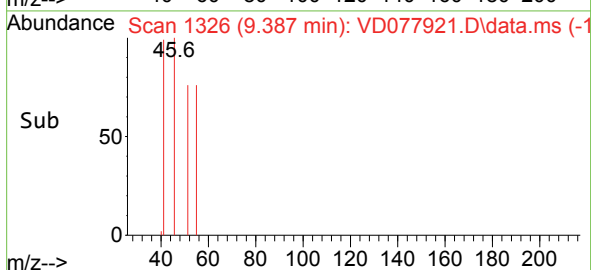
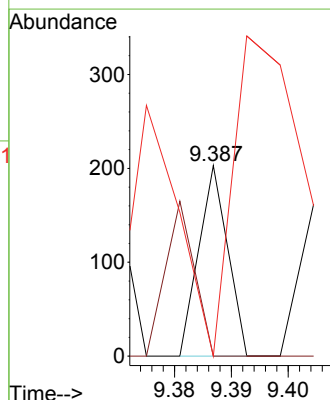
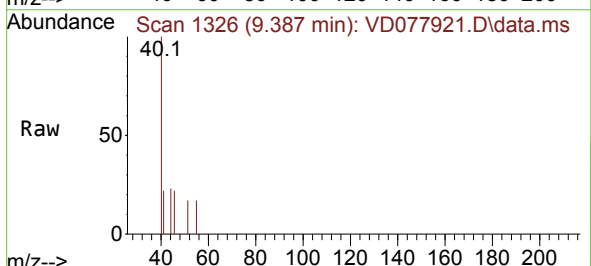
Tgt Ion: 41 Resp: 72

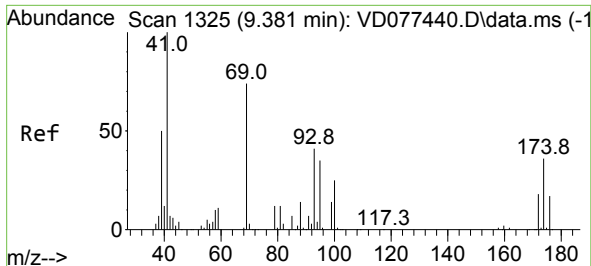
Ion Ratio Lower Upper

41 100

69 80.6 102.2 153.2#

39 595.8 41.4 62.2#





#49

1,4-Dioxane

Concen: 154.648 ug/l

RT: 9.487 min Scan# 1

Delta R.T. 0.106 min

Lab File: VD077921.D

Acq: 16 Dec 2023 01:23

Instrument :

MSVOA_D

ClientSampleId :

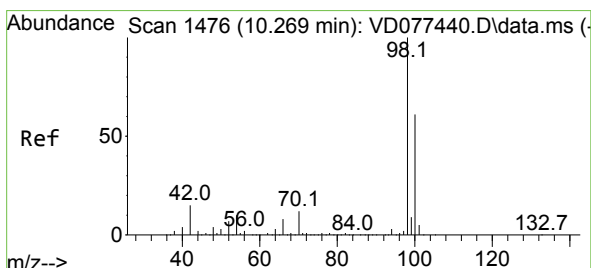
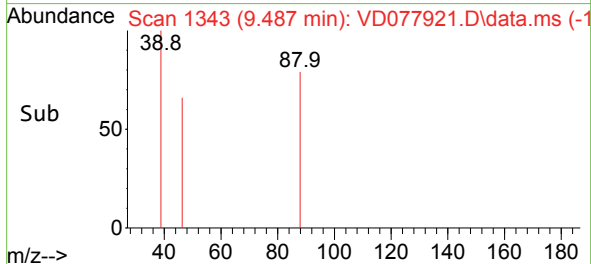
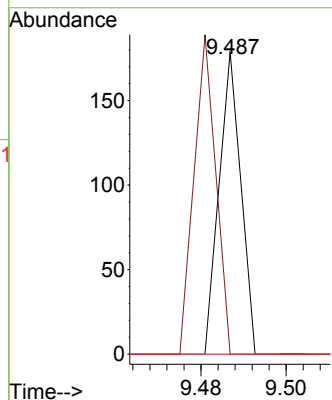
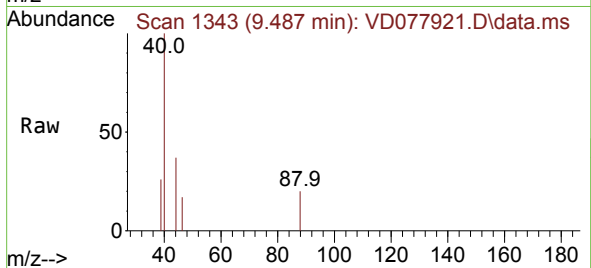
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 106.3 19.0 28.6#

58 0.0 43.5 65.3#



#50

Toluene-d8

Concen: 41.654 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077921.D

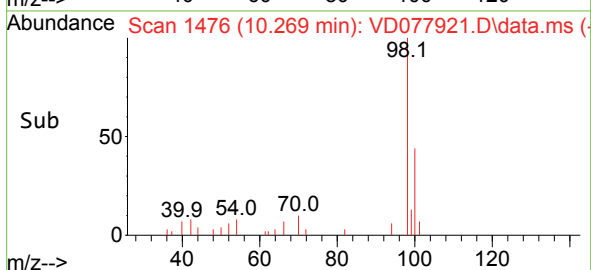
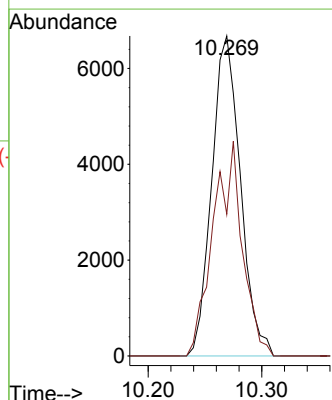
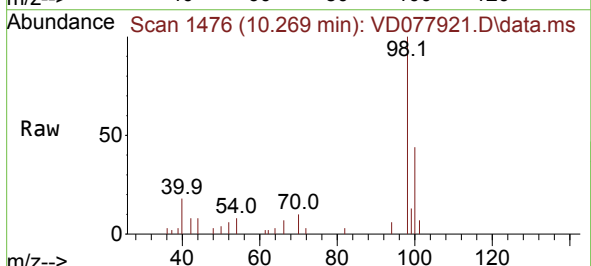
Acq: 16 Dec 2023 01:23

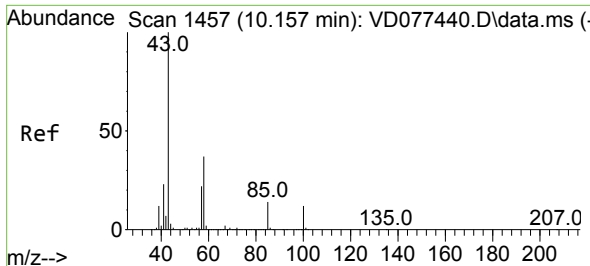
Tgt Ion: 98 Resp: 11721

Ion Ratio Lower Upper

98 100

100 68.1 50.3 75.5

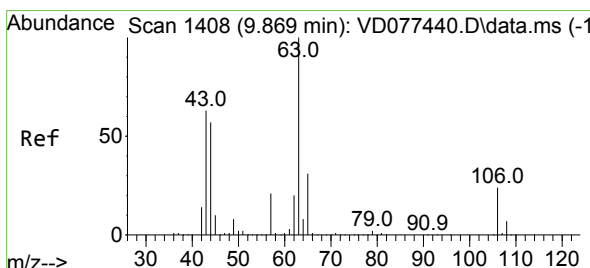
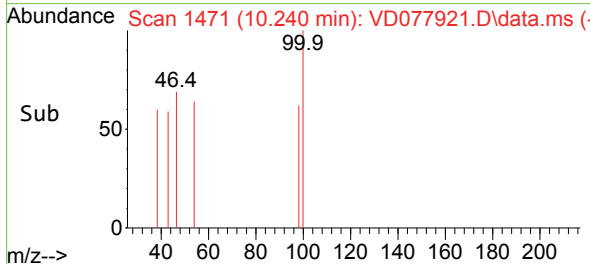
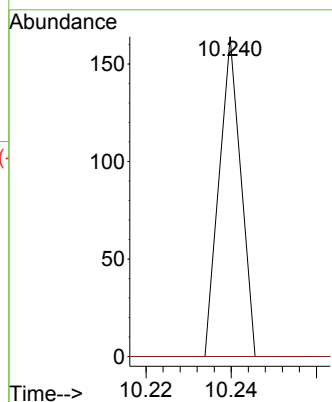
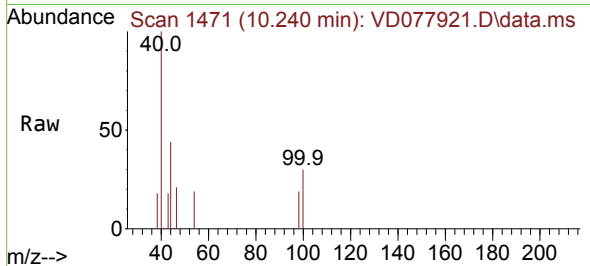




#51
4-Methyl-2-Pentanone
Concen: 1.459 ug/l
RT: 10.240 min Scan# 1457
Delta R.T. 0.083 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

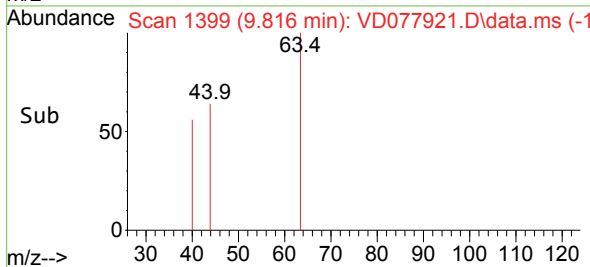
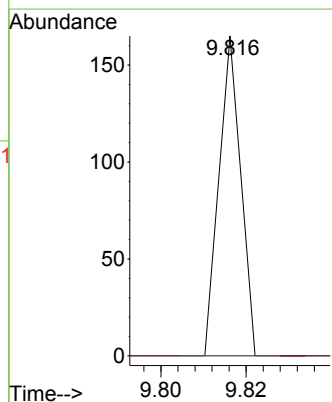
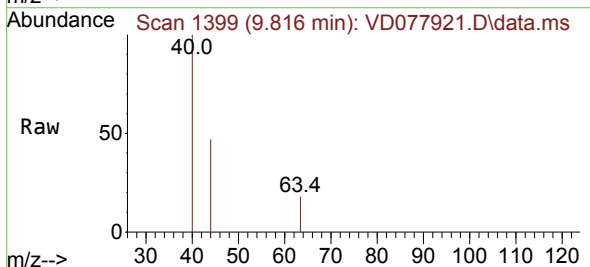
Instrument :
MSVOA_D
ClientSampleId :

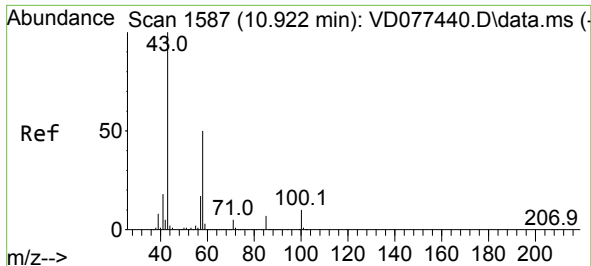
Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



#58
2-Chloroethyl Vinyl ether
Concen: 2.056 ug/l
RT: 9.816 min Scan# 1399
Delta R.T. -0.053 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Tgt Ion: 63 Resp: 58
Ion Ratio Lower Upper
63 100
106 0.0 25.3 37.9#

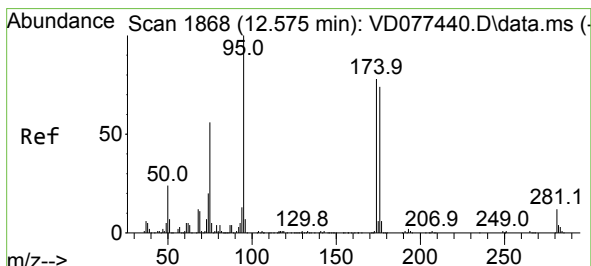
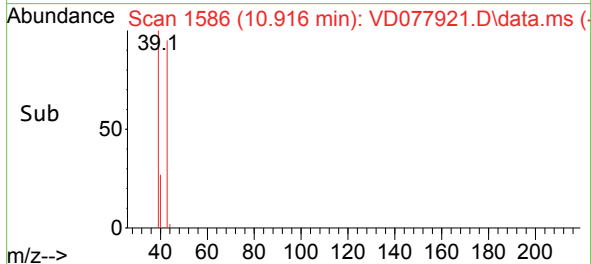
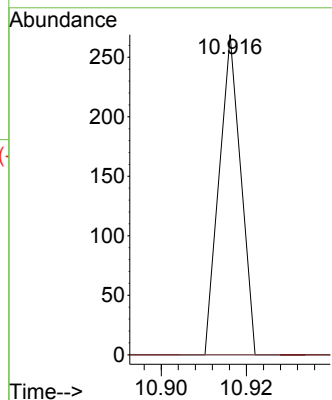
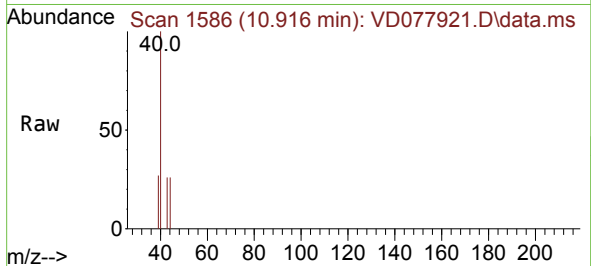




#59
2-Hexanone
Concen: 2.880 ug/l
RT: 10.916 min Scan# 1586
Delta R.T. -0.006 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

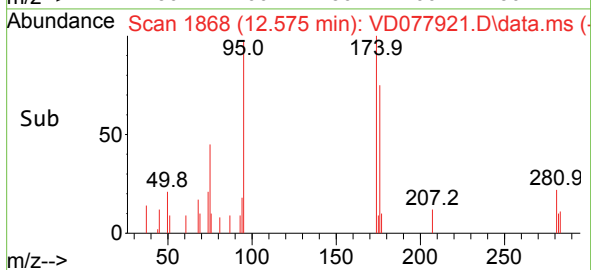
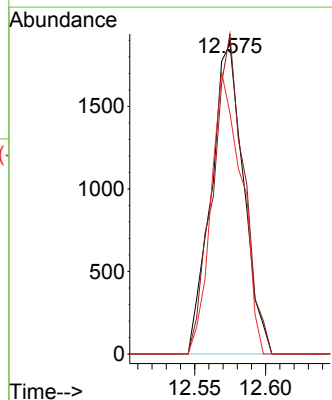
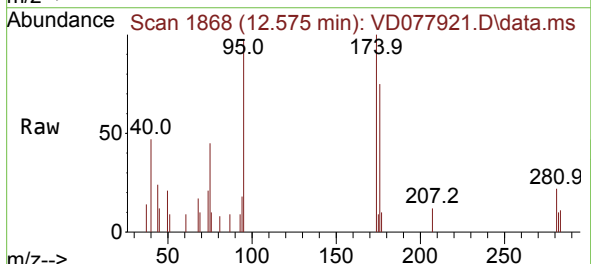
Instrument :
MSVOA_D
ClientSampleId :

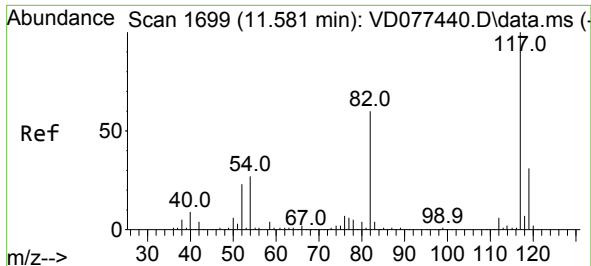
Tgt Ion: 43 Resp: 95
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 35.470 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Tgt Ion: 95 Resp: 2984
Ion Ratio Lower Upper
95 100
174 98.7 0.0 201.8
176 85.8 0.0 191.8

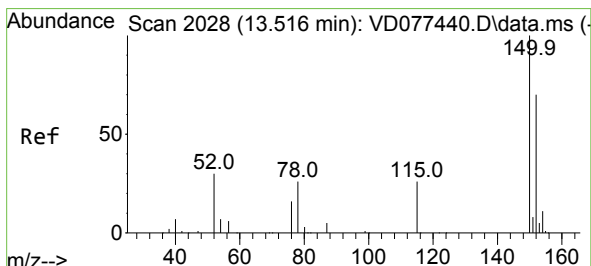
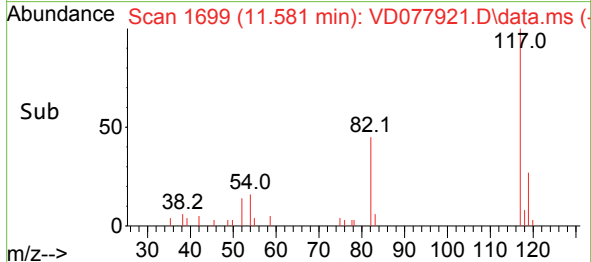
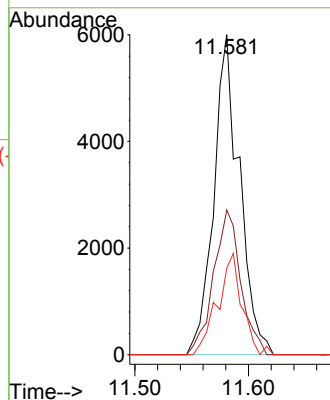
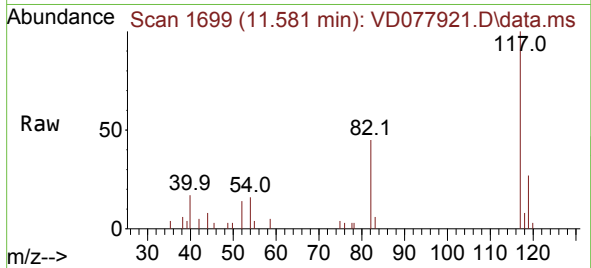




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

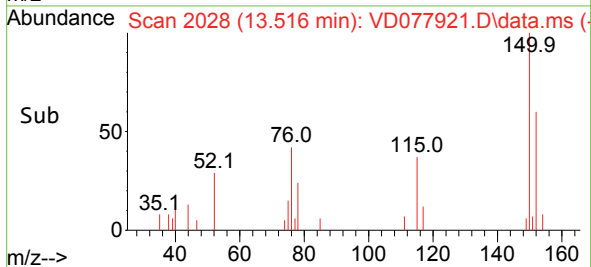
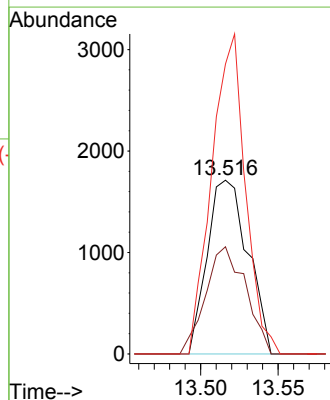
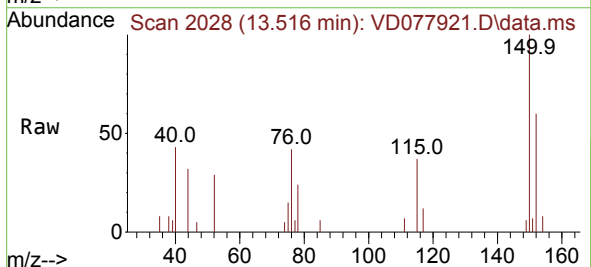
Instrument :
MSVOA_D
ClientSampleId :

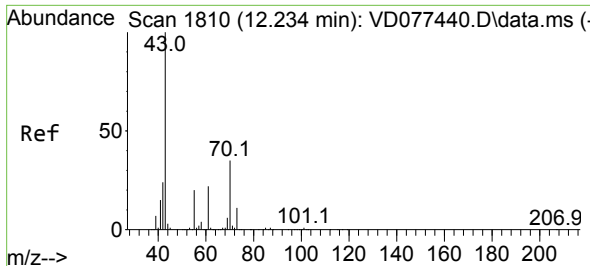
Tgt Ion:117 Resp: 9404
Ion Ratio Lower Upper
117 100
82 45.2 38.3 57.5
119 27.0 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.000 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

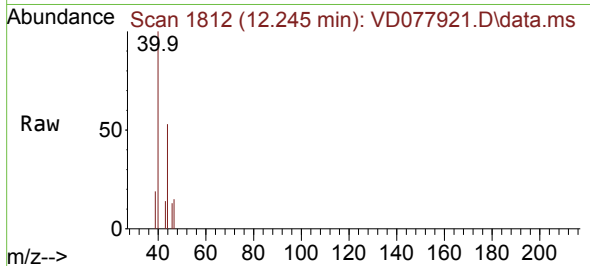
Tgt Ion:152 Resp: 3125
Ion Ratio Lower Upper
152 100
115 60.8 27.1 81.3
150 152.5 0.0 353.6



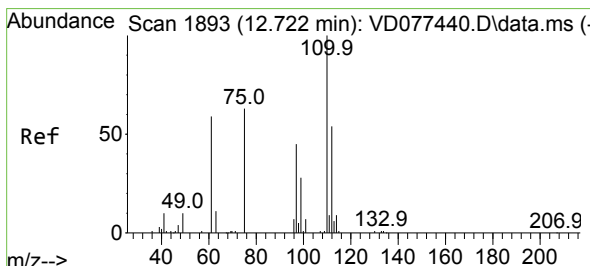
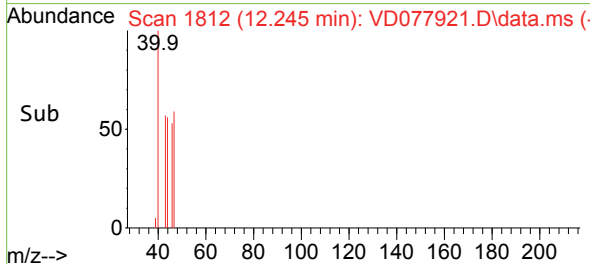
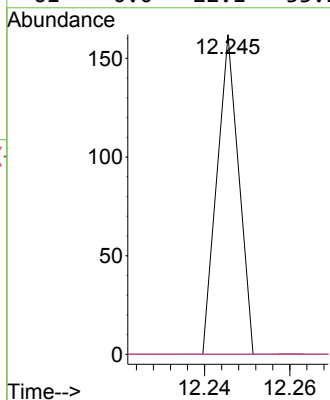


#74
N-amy1 acetate
Concen: 1.224 ug/l
RT: 12.245 min Scan# 1810
Delta R.T. 0.011 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Instrument :
MSVOA_D
ClientSampleId :

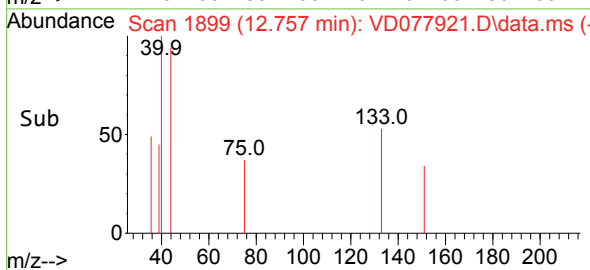
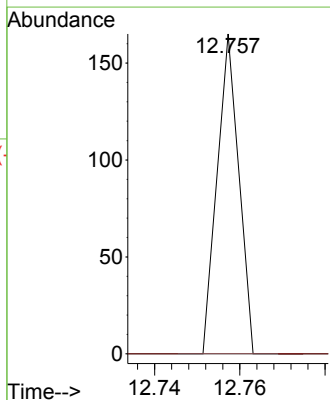
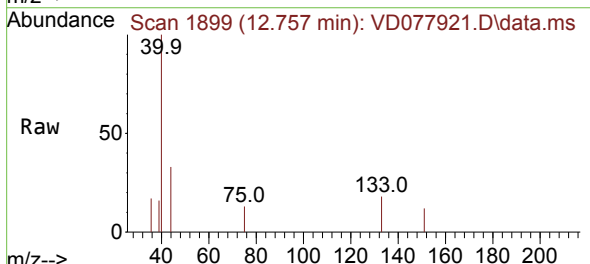


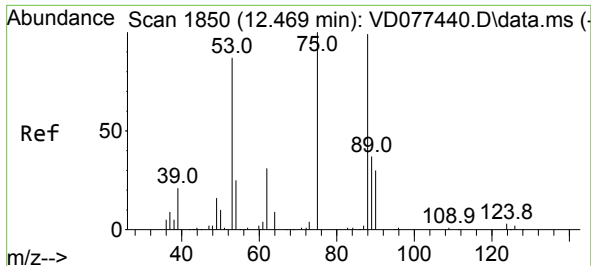
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 0.0 23.8 35.6#
61 0.0 22.1 33.1#



#76
1,2,3-Trichloropropane
Concen: 2.137 ug/l
RT: 12.757 min Scan# 1899
Delta R.T. 0.035 min
Lab File: VD077921.D
Acq: 16 Dec 2023 01:23

Tgt Ion: 75 Resp: 58
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

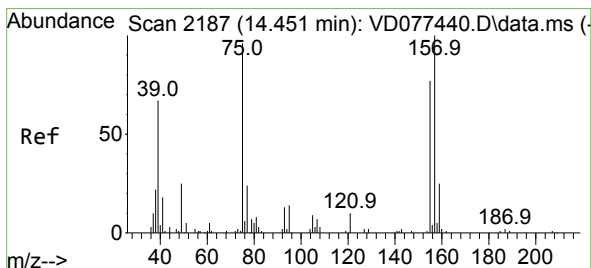
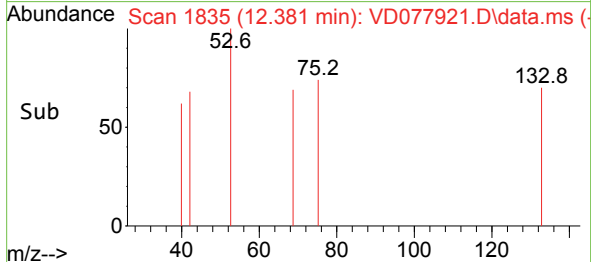
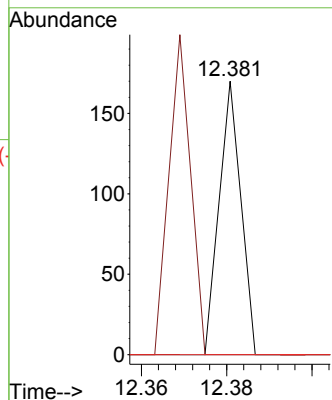
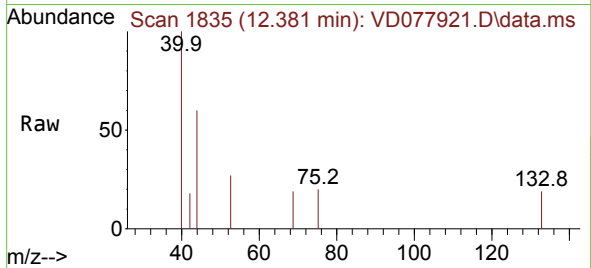




#81
 trans-1,4-Dichloro-2-butene
 Concen: 4.479 ug/l
 RT: 12.381 min Scan# 11
 Delta R.T. -0.088 min
 Lab File: VD077921.D
 Acq: 16 Dec 2023 01:23

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 75 Resp: 60
 Ion Ratio Lower Upper
 75 100
 53 116.7 63.0 94.4#
 89 0.0 37.9 56.9#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.083 ug/l
 RT: 14.392 min Scan# 2177
 Delta R.T. -0.059 min
 Lab File: VD077921.D
 Acq: 16 Dec 2023 01:23

Tgt Ion: 75 Resp: 65
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.9 143.8#
 157 0.0 59.9 179.7#

