

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122023\
 Data File : VD077988.D
 Acq On : 20 Dec 2023 11:53
 Operator : RP/MD
 Sample : 05827-01
 Misc : 5.08G/5.0ml/MSVOA_D/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 21 05:22:28 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)

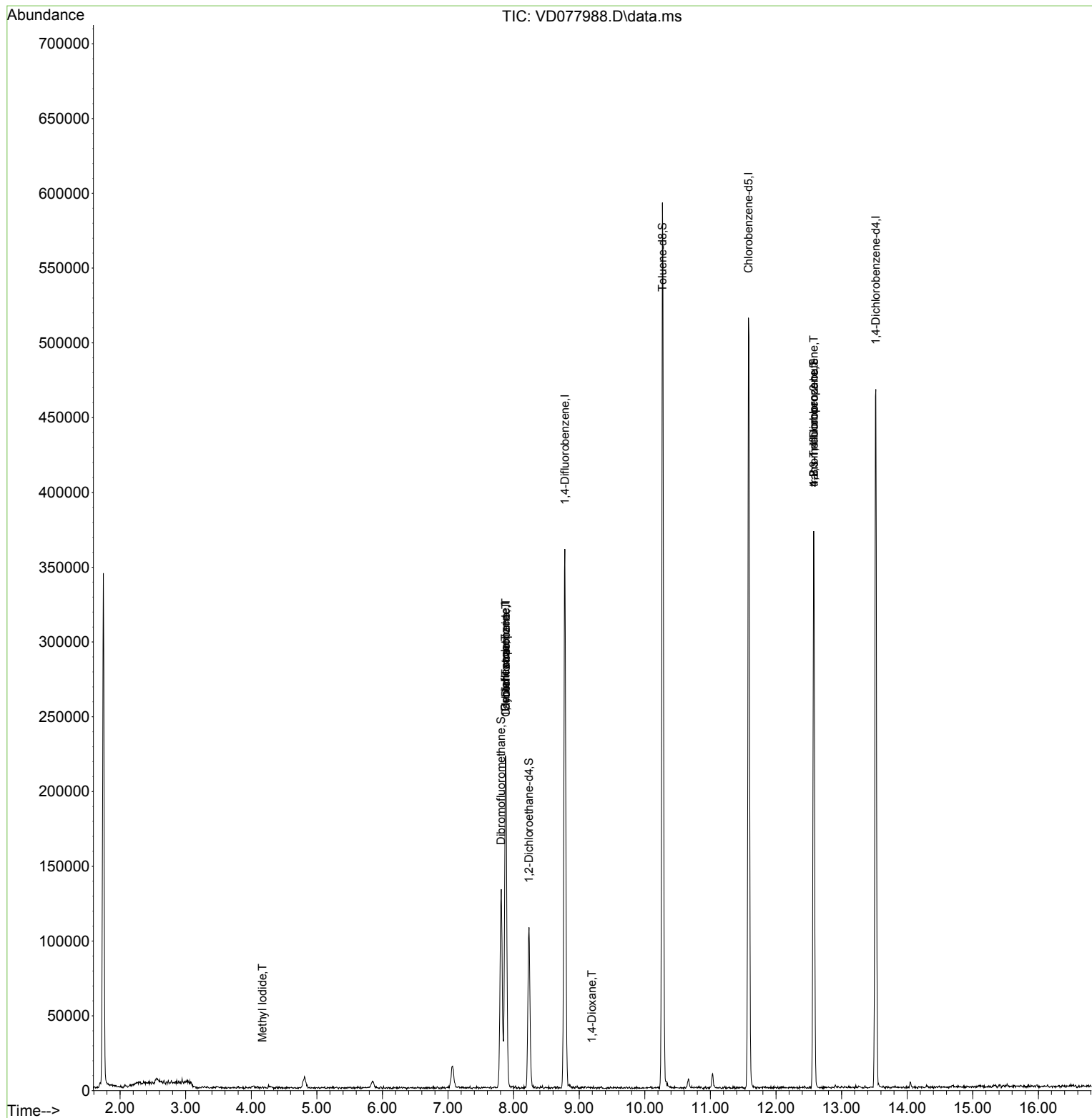
Internal Standards						
1) Pentafluorobenzene	7.875	168	175926	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	319665	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	302852	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	127899	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	83495	40.277	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	80.560%
35) Dibromofluoromethane	7.811	113	95625	42.706	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	85.420%
50) Toluene-d8	10.269	98	405657	45.233	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.460%
62) 4-Bromofluorobenzene	12.575	95	112506	41.961	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	83.920%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.170	142	61	6.770	ug/l #	46
11) Tert butyl alcohol	5.052	59	125	Below Cal	#	73
16) Acetone	4.034	43	2057	Below Cal	#	74
20) Methylene Chloride	4.817	84	5849	Below Cal	#	83
25) 2-Butanone	7.069	43	436	Below Cal	#	37
31) Cyclohexane	7.875	56	4054	1.099	ug/l #	61
36) 1,1-Dichloropropene	7.881	75	14669	4.096	ug/l #	48
38) Carbon Tetrachloride	7.881	117	17651	4.943	ug/l #	15
49) 1,4-Dioxane	9.193	88	60	4.621	ug/l #	33
65) Chlorobenzene	11.610	112	68	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.575	75	58877	53.004	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	58877	107.389	ug/l #	17
88) 1,4-Dichlorobenzene	13.540	146	620	Below Cal	#	26
92) 1,2-Dibromo-3-Chloropr...	14.487	75	67	Below Cal	#	1

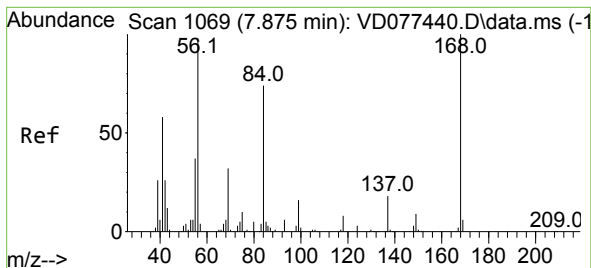
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
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QLast Update : Thu Dec 14 14:48:10 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

Instrument :

MSVOA_D

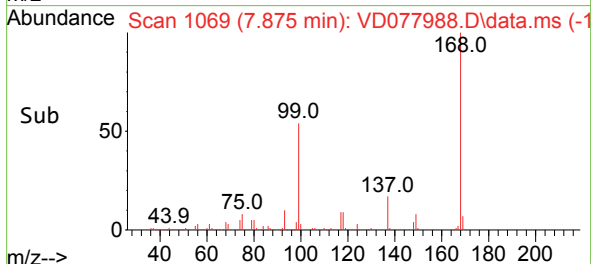
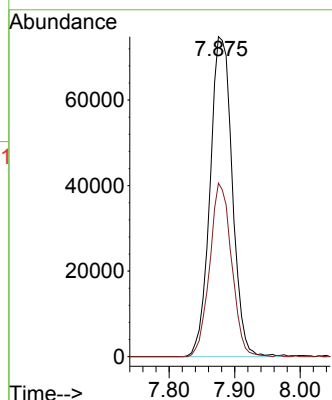
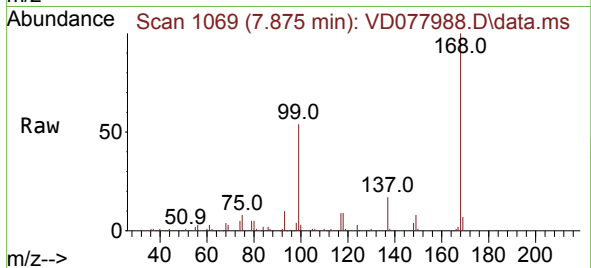
ClientSampleId :

Tgt Ion:168 Resp: 175926

Ion Ratio Lower Upper

168 100

99 54.2 36.7 55.1



#10

Methyl Iodide

Concen: 6.770 ug/l

RT: 4.170 min Scan# 439

Delta R.T. 0.001 min

Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

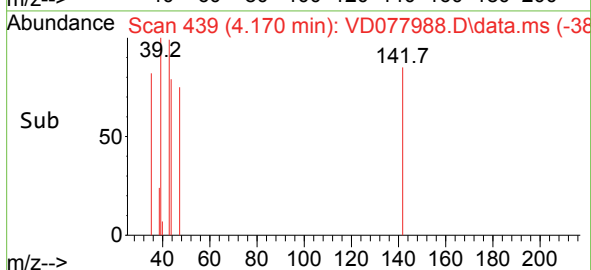
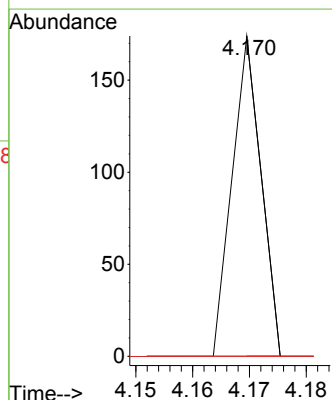
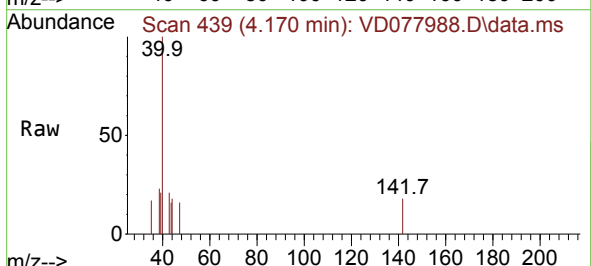
Tgt Ion:142 Resp: 61

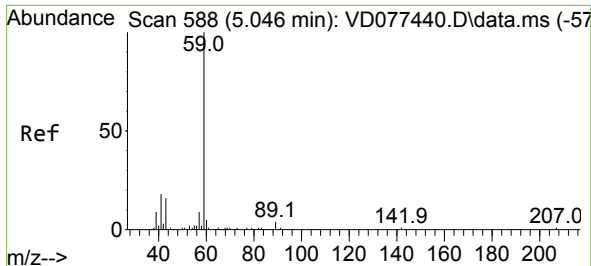
Ion Ratio Lower Upper

142 100

127 0.0 29.4 44.0#

141 0.0 11.1 16.7#

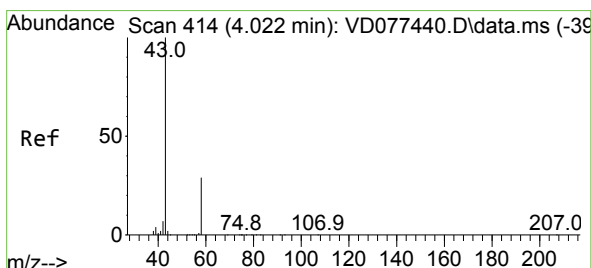
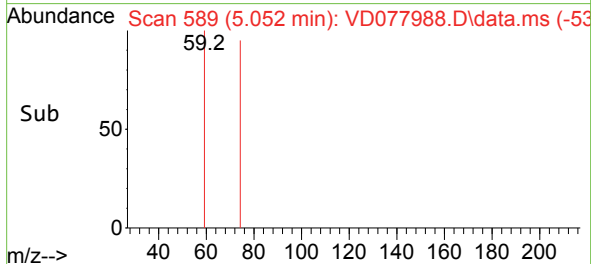
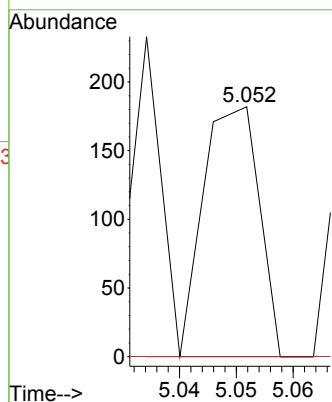
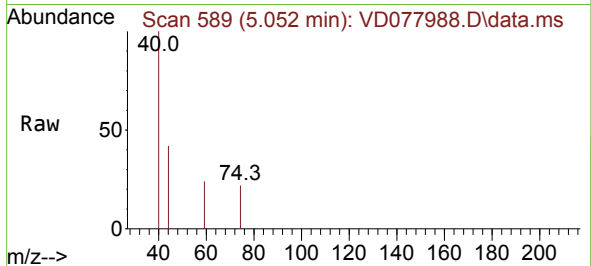




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.052 min Scan# 51
Delta R.T. 0.006 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

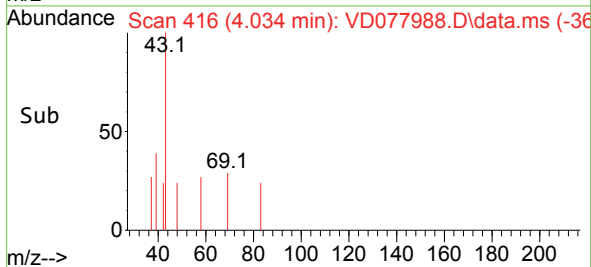
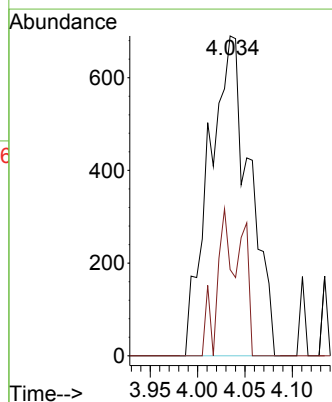
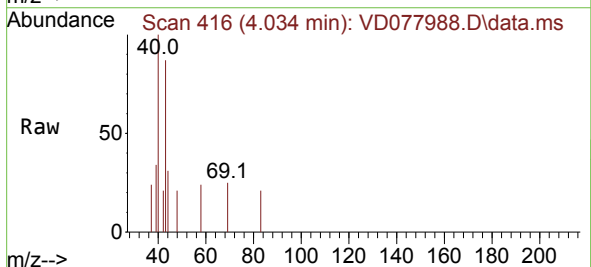
Instrument :
MSVOA_D
ClientSampleId :

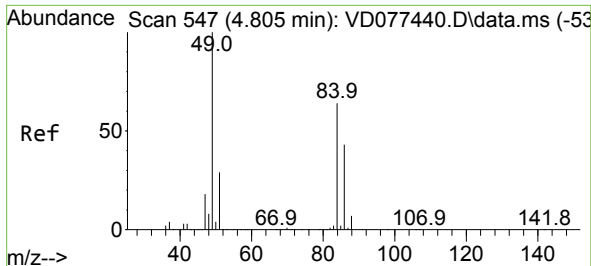
Tgt Ion: 59 Resp: 125
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: Below Cal
RT: 4.034 min Scan# 416
Delta R.T. 0.012 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

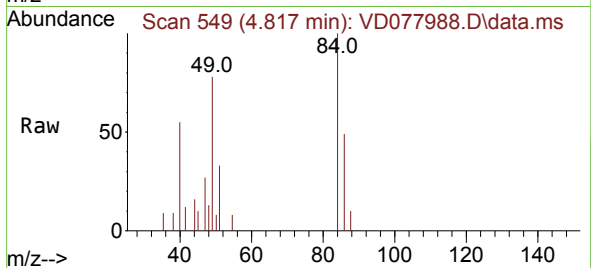
Tgt Ion: 43 Resp: 2057
Ion Ratio Lower Upper
43 100
58 27.0 34.7 52.1#



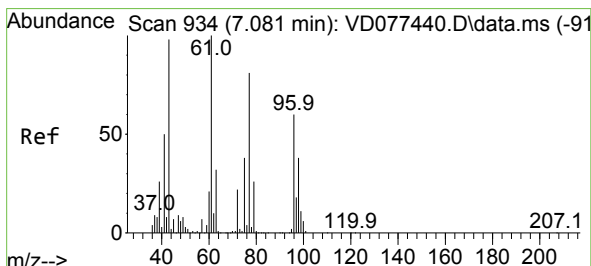
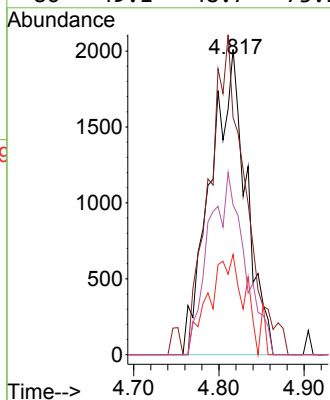
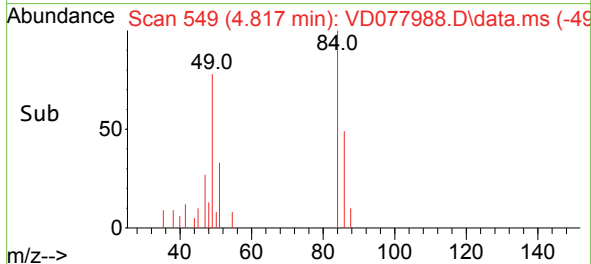


#20
Methylene Chloride
Concen: Below Cal
RT: 4.817 min Scan# 549
Delta R.T. 0.012 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

Instrument :
MSVOA_D
ClientSampleId :

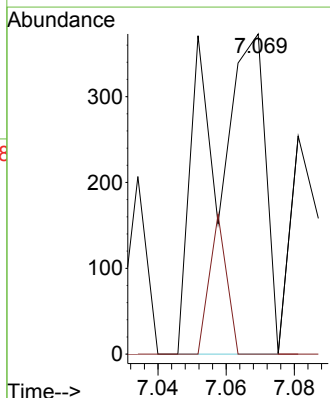
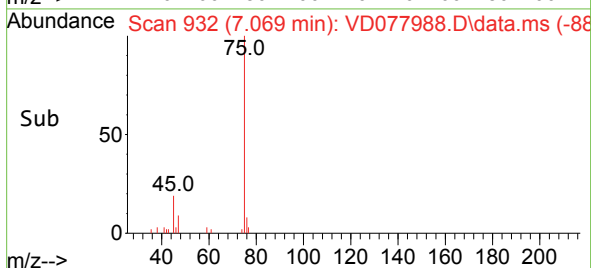
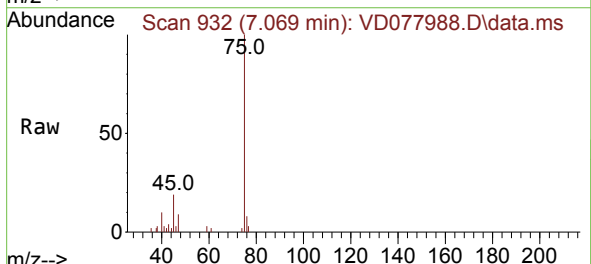


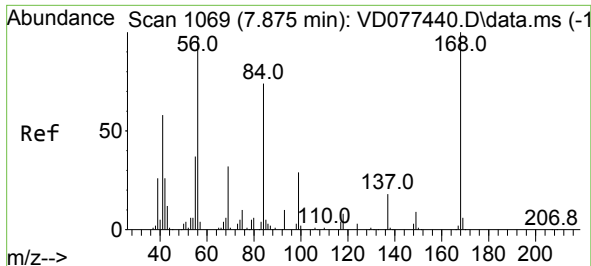
Tgt Ion: 84 Resp: 5849
Ion Ratio Lower Upper
84 100
49 68.8 71.4 107.2#
51 32.8 24.5 36.7
86 49.1 48.7 73.1



#25
2-Butanone
Concen: Below Cal
RT: 7.069 min Scan# 932
Delta R.T. -0.012 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

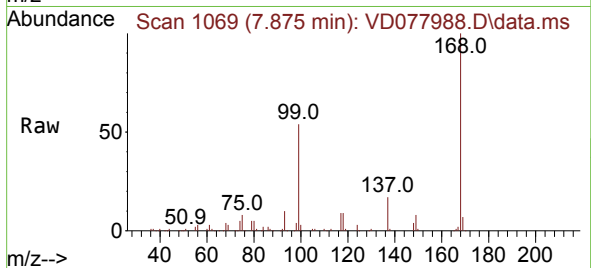
Tgt Ion: 43 Resp: 436
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



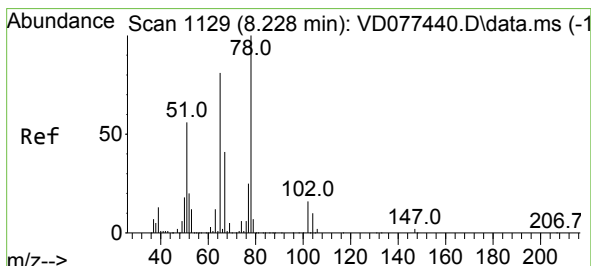
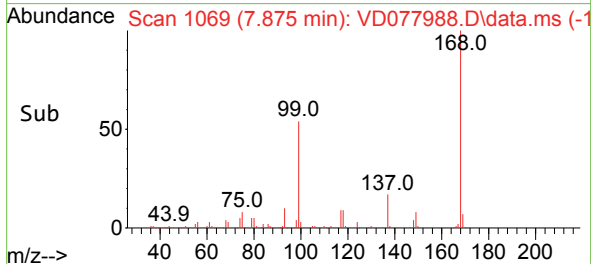
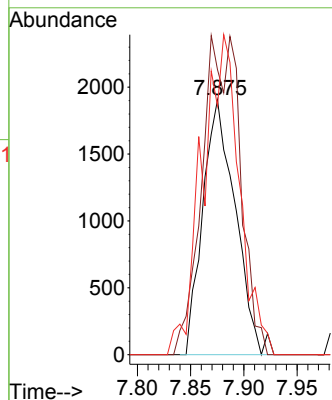


#31
Cyclohexane
Concen: 1.099 ug/l
RT: 7.875 min Scan# 110
Delta R.T. 0.000 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

Instrument :
MSVOA_D
ClientSampleId :

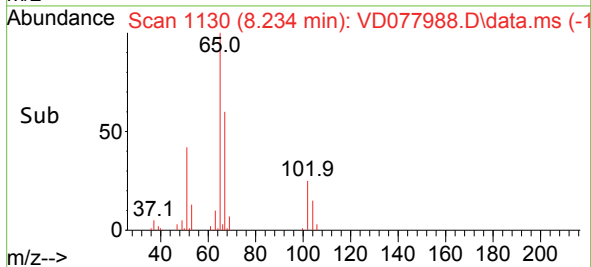
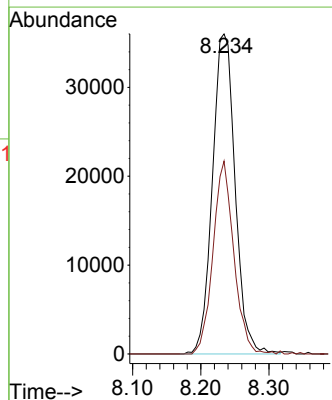
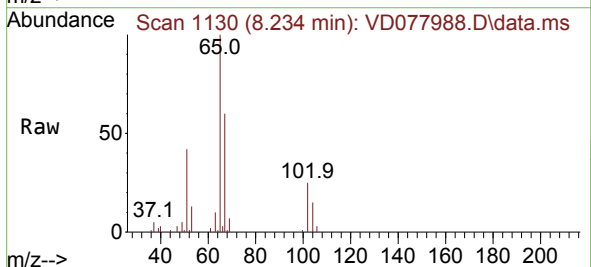


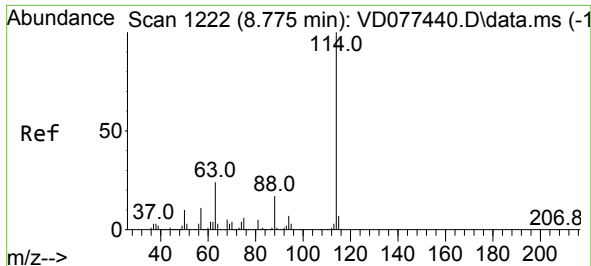
Tgt Ion: 56 Resp: 4054
Ion Ratio Lower Upper
56 100
69 111.9 28.6 43.0#
84 97.5 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 40.277 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

Tgt Ion: 65 Resp: 83495
Ion Ratio Lower Upper
65 100
67 55.3 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

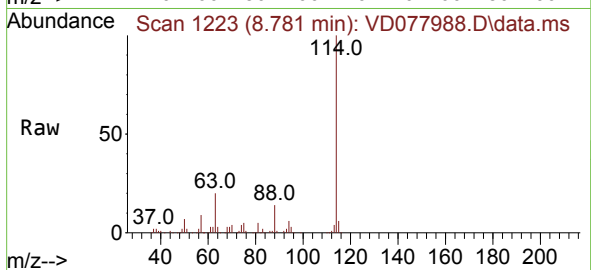
Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

Instrument :

MSVOA_D

ClientSampleId :



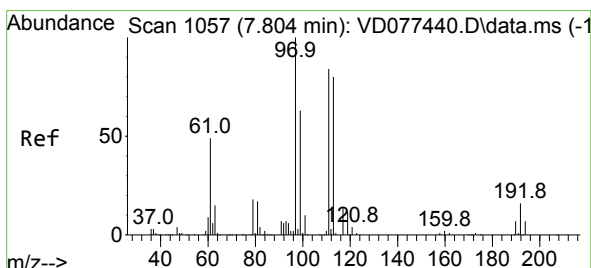
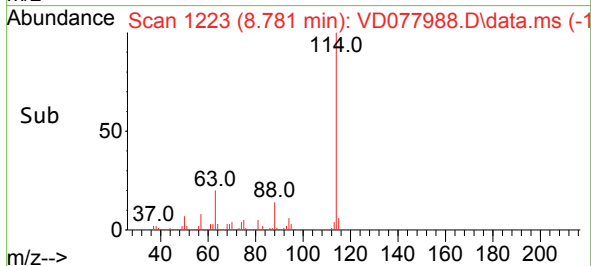
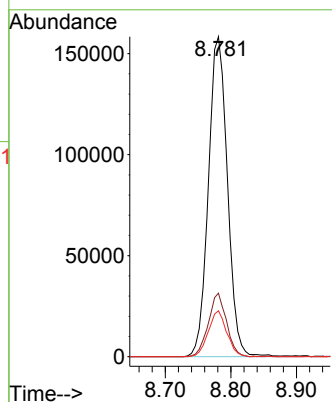
Tgt Ion:114 Resp: 319665

Ion Ratio Lower Upper

114 100

63 19.8 0.0 33.4

88 14.4 0.0 26.2



#35

Dibromofluoromethane

Concen: 42.706 ug/l

RT: 7.811 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

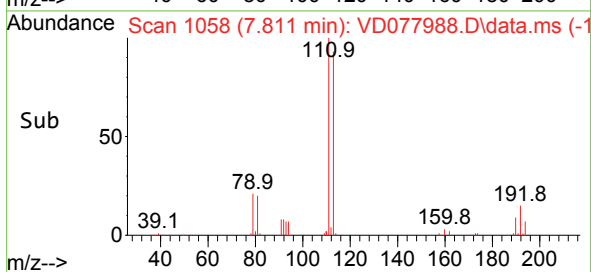
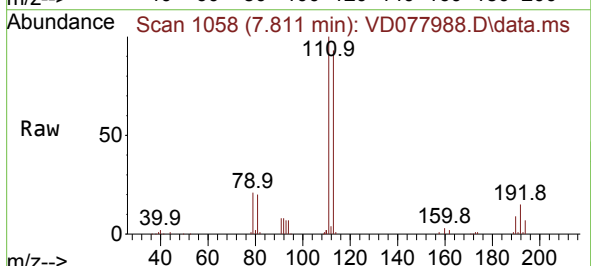
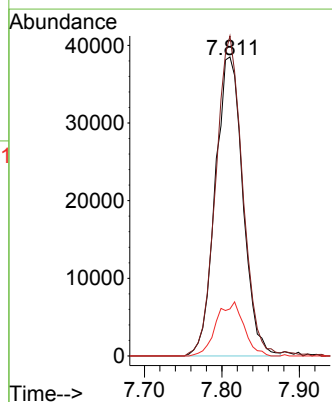
Tgt Ion:113 Resp: 95625

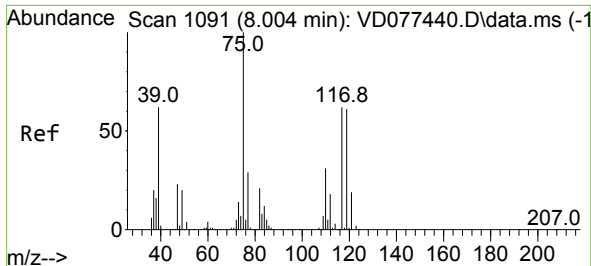
Ion Ratio Lower Upper

113 100

111 103.7 84.7 127.1

192 18.0 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.096 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.123 min

Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

Instrument :

MSVOA_D

ClientSampleId :

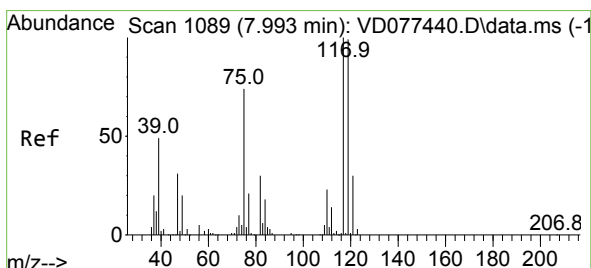
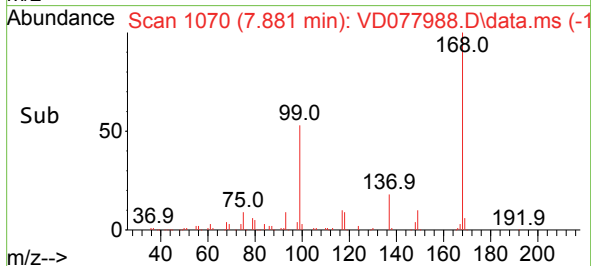
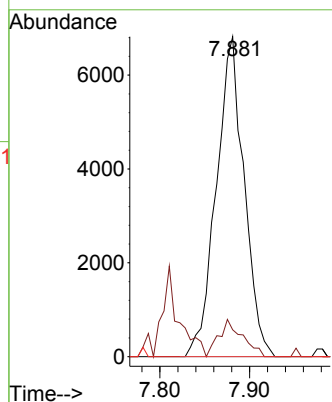
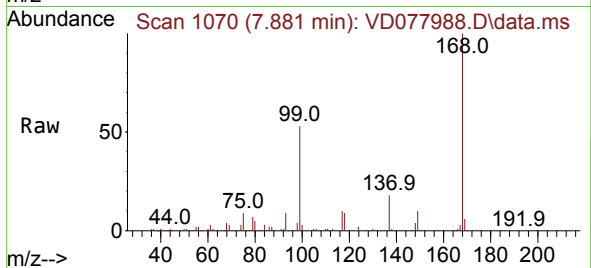
Tgt Ion: 75 Resp: 14669

Ion Ratio Lower Upper

75 100

110 9.8 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 4.943 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.112 min

Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

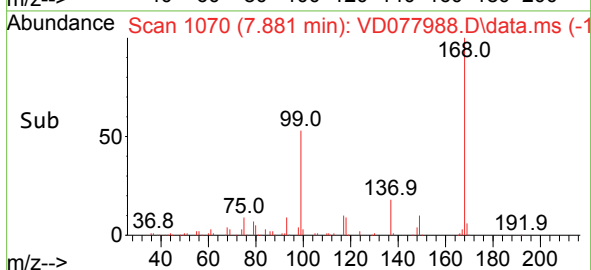
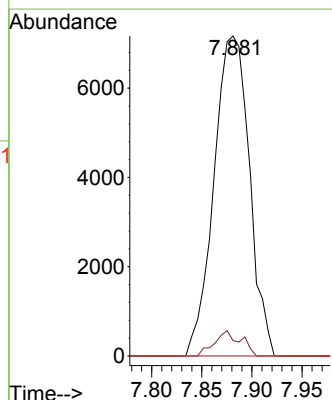
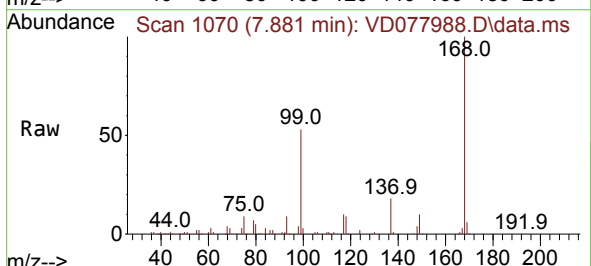
Tgt Ion: 117 Resp: 17651

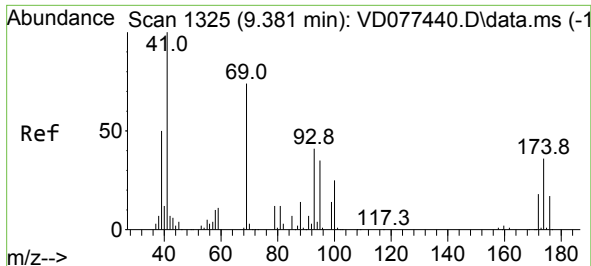
Ion Ratio Lower Upper

117 100

119 4.8 78.0 117.0#

121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 4.621 ug/l

RT: 9.193 min Scan# 11

Delta R.T. -0.188 min

Lab File: VD077988.D

Acq: 20 Dec 2023 11:53

Instrument :

MSVOA_D

ClientSampleId :

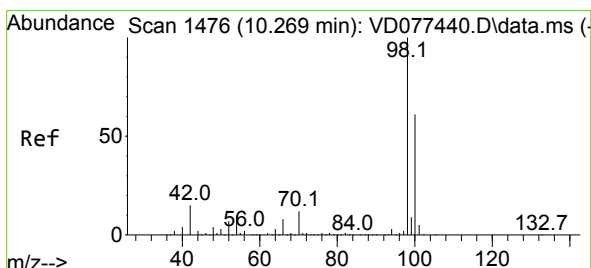
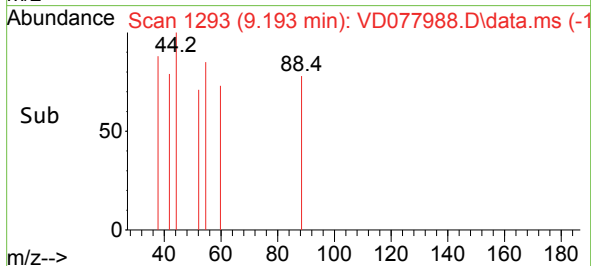
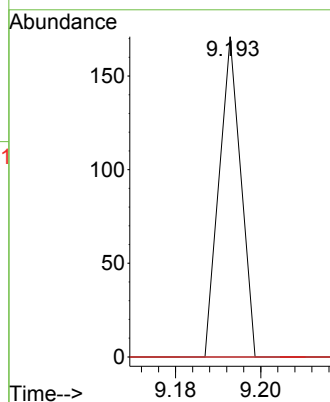
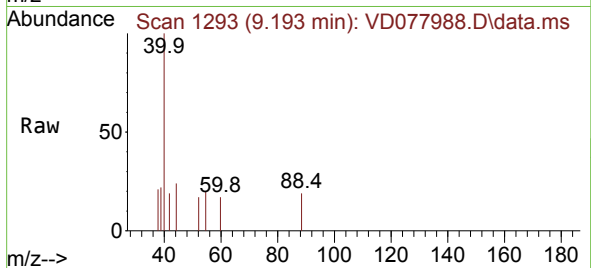
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.6#

58 0.0 43.5 65.3#



#50

Toluene-d8

Concen: 45.233 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077988.D

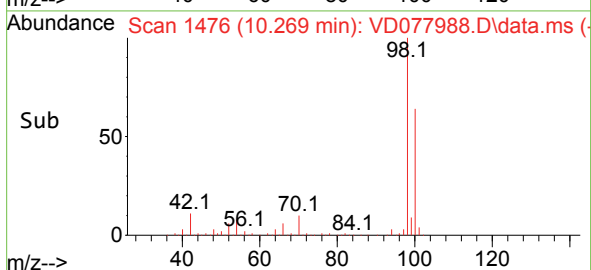
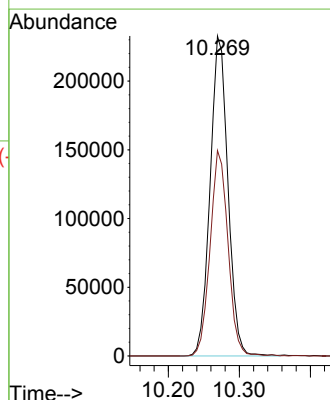
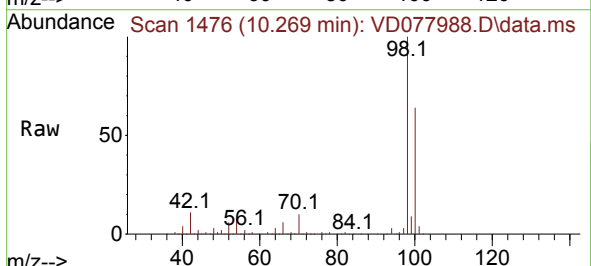
Acq: 20 Dec 2023 11:53

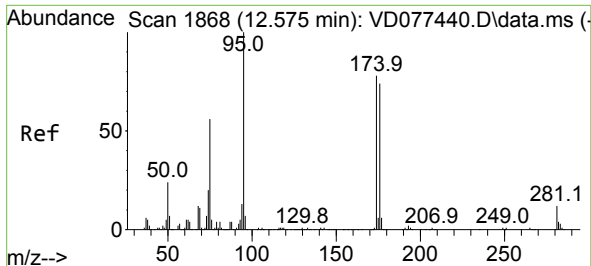
Tgt Ion: 98 Resp: 405657

Ion Ratio Lower Upper

98 100

100 64.3 50.3 75.5

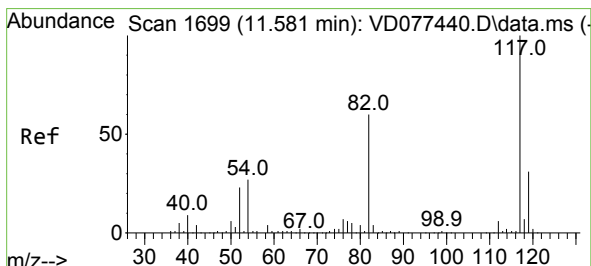
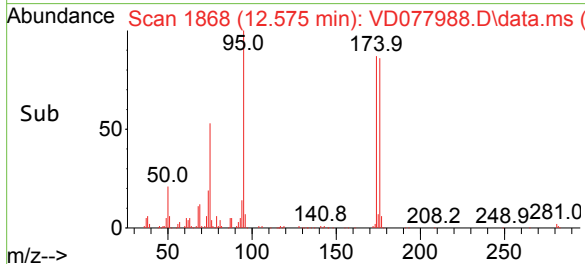
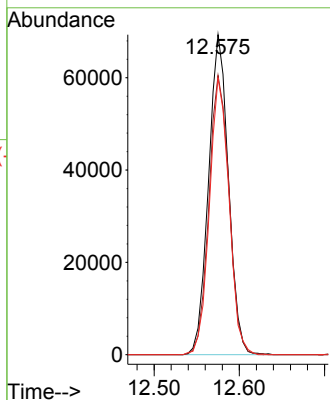
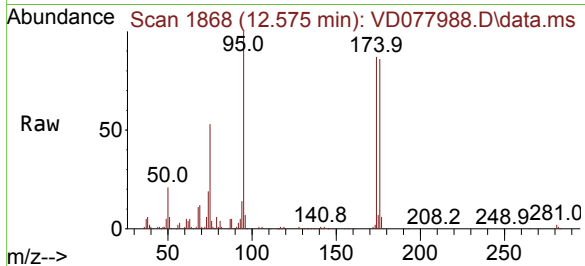




#62
4-Bromofluorobenzene
Concen: 41.961 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

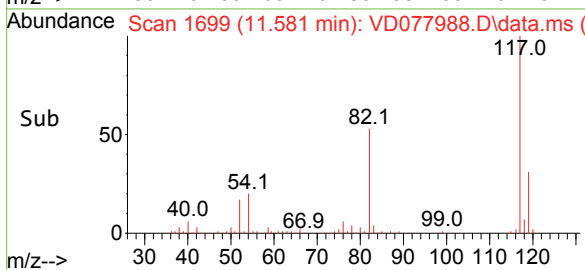
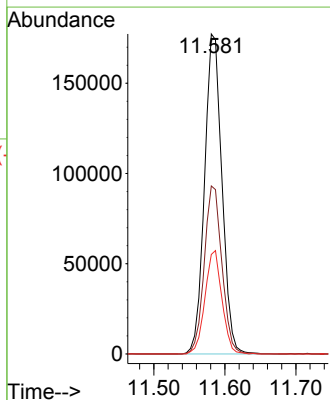
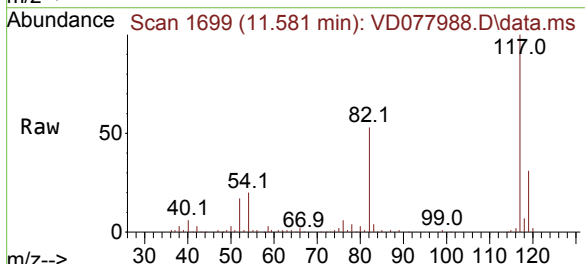
Instrument :
MSVOA_D
ClientSampleId :

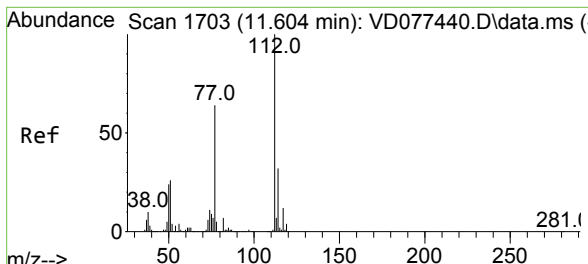
Tgt Ion: 95 Resp: 112506
Ion Ratio Lower Upper
95 100
174 88.9 0.0 201.8
176 84.9 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

Tgt Ion: 117 Resp: 302852
Ion Ratio Lower Upper
117 100
82 52.5 38.3 57.5
119 31.1 25.0 37.4

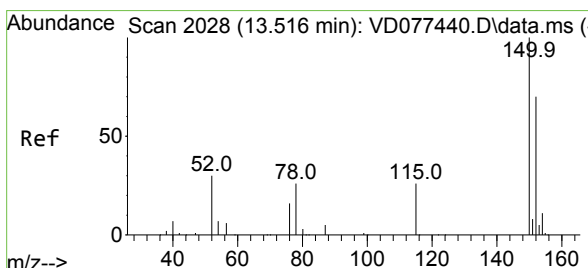
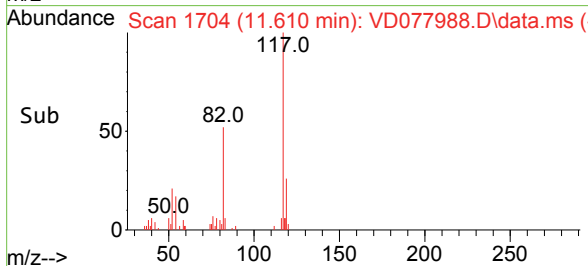
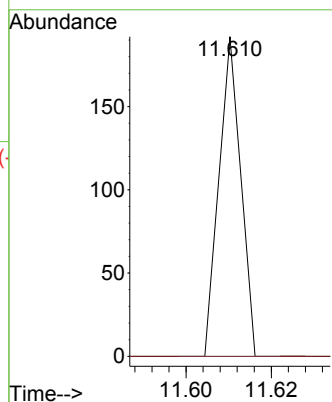
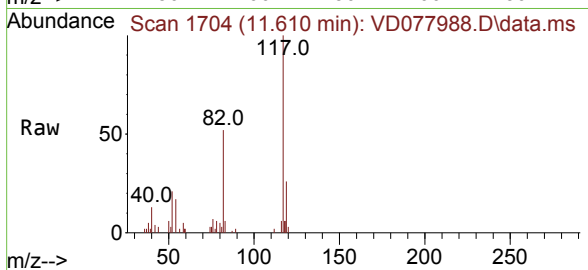




#65
Chlorobenzene
Concen: Below Cal
RT: 11.610 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

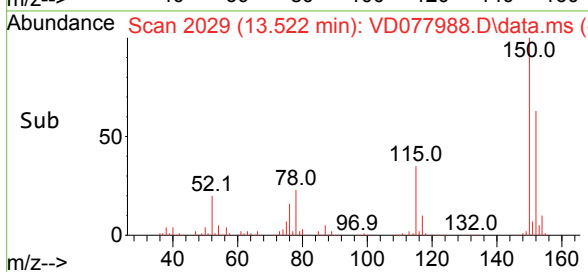
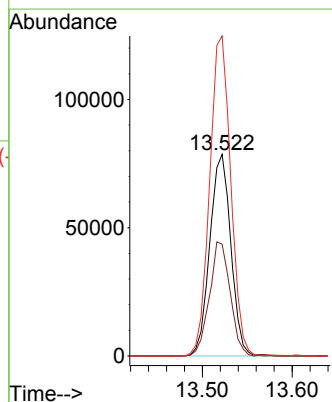
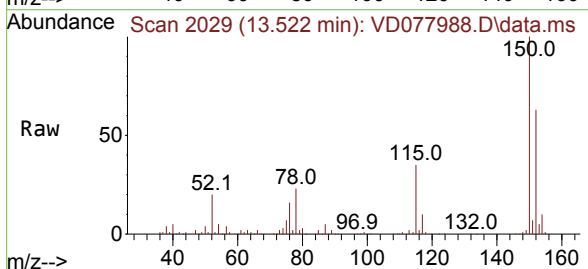
Instrument :
MSVOA_D
ClientSampleId :

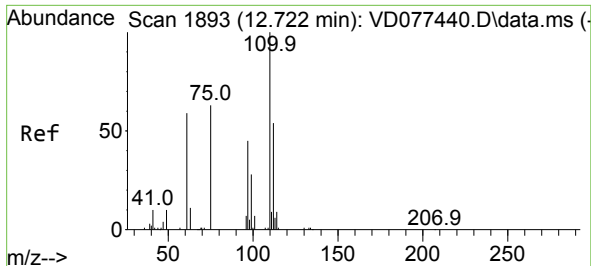
Tgt Ion:112 Resp: 68
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. 0.006 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

Tgt Ion:152 Resp: 127899
Ion Ratio Lower Upper
152 100
115 55.8 27.1 81.3
150 159.2 0.0 353.6

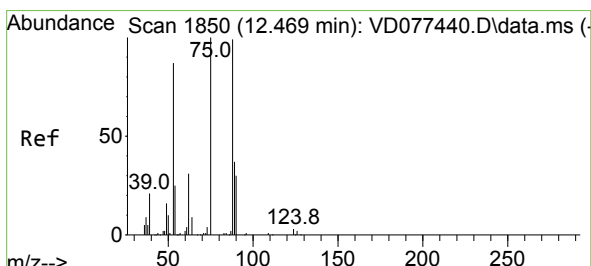
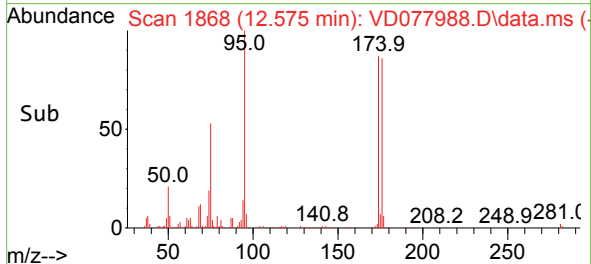
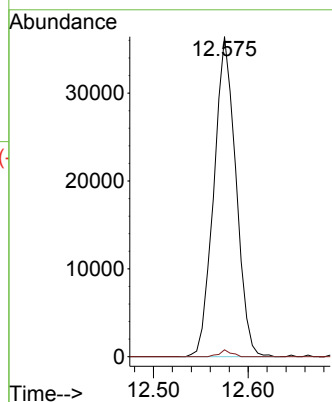
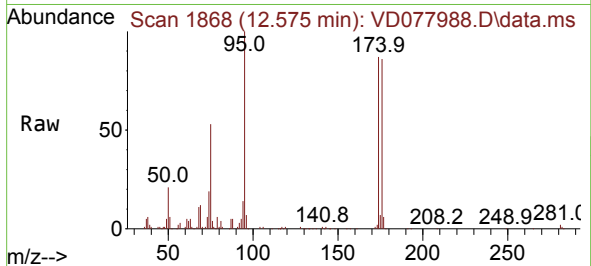




#76
1,2,3-Trichloropropane
Concen: 53.004 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

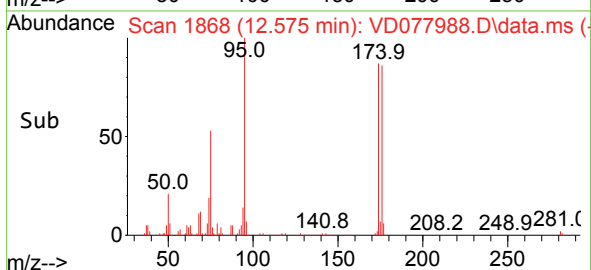
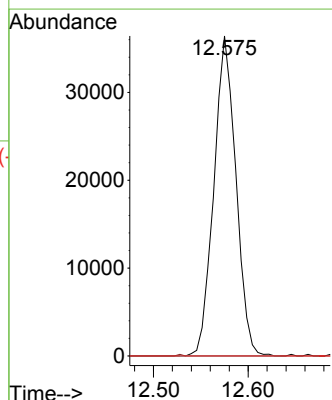
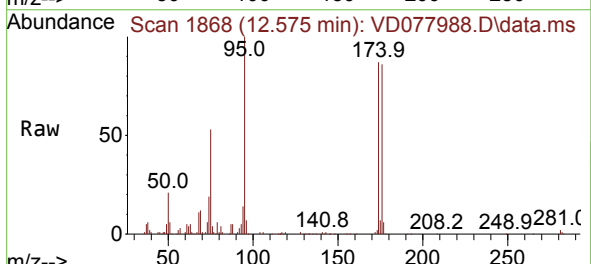
Instrument :
MSVOA_D
ClientSampleId :

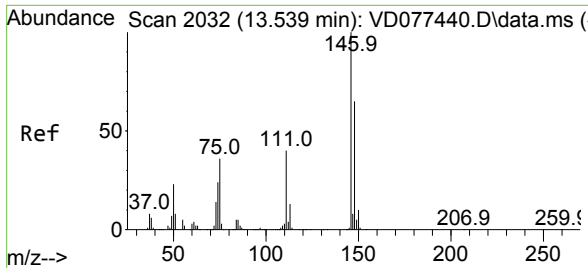
Tgt Ion: 75 Resp: 58877
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 107.389 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077988.D
Acq: 20 Dec 2023 11:53

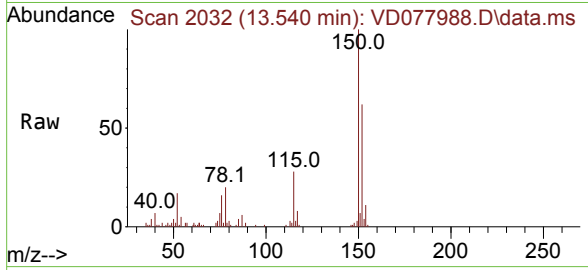
Tgt Ion: 75 Resp: 58877
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#





#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.540 min Scan# 2032
 Delta R.T. 0.001 min
 Lab File: VD077988.D
 Acq: 20 Dec 2023 11:53

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	146	Resp:	620
Ion	Ratio	Lower	Upper
146	100		
111	0.0	17.4	52.3#
148	0.0	31.7	95.1#

