

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061625\
 Data File : VY022700.D
 Acq On : 16 Jun 2025 11:46
 Operator : SY/MD
 Sample : Q2322-01
 Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CL-01-061325

Quant Time: Jun 17 05:52:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

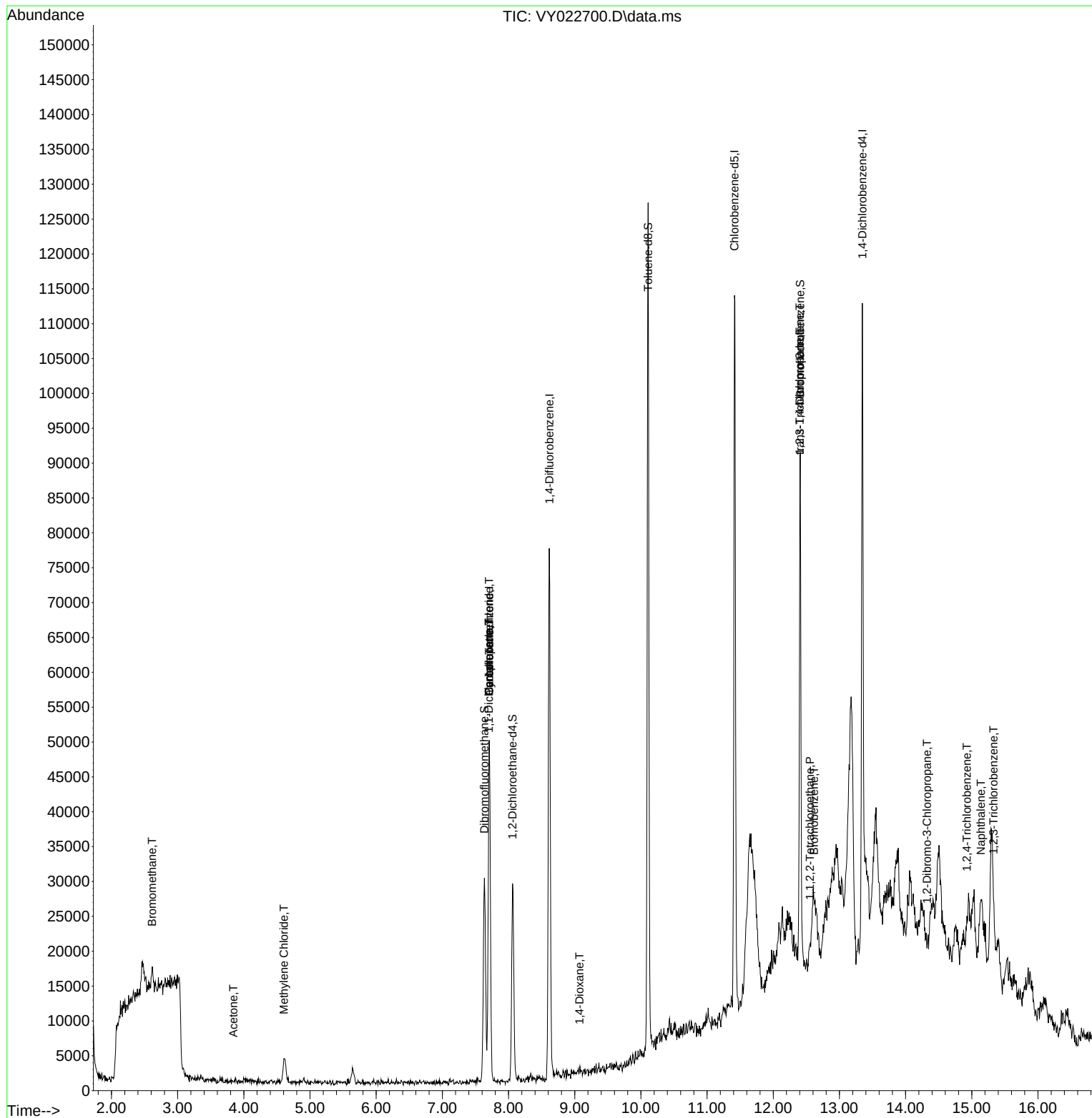
Internal Standards						
1) Pentafluorobenzene	7.707	168	36222	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	63830	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	51595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	19372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	21131	52.159	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.320%	
35) Dibromofluoromethane	7.634	113	19950	52.364	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.720%	
50) Toluene-d8	10.109	98	77133	50.105	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.200%	
62) 4-Bromofluorobenzene	12.408	95	20537	44.775	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 89.540%	
Target Compounds						Qvalue
5) Bromomethane	2.611	94	1495	1.403	ug/l #	65
16) Acetone	3.842	43	176	2.139	ug/l #	45
20) Methylene Chloride	4.604	84	975	2.086	ug/l #	82
31) Cyclohexane	7.707	56	1074	1.380	ug/l #	11
36) 1,1-Dichloropropene	7.701	75	3639	5.885	ug/l #	52
38) Carbon Tetrachloride	7.707	117	3682	5.805	ug/l #	21
49) 1,4-Dioxane	9.073	88	66	22.942	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.554	83	431	1.651	ug/l #	94
76) 1,2,3-Trichloropropane	12.402	75	11677	52.689	ug/l #	100
77) Bromobenzene	12.615	156	7186	21.411	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.402	75	11677	127.240	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.322	75	98	2.579	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.926	180	339	1.077	ug/l #	32
95) Naphthalene	15.139	128	1675	2.772	ug/l #	63
96) 1,2,3-Trichlorobenzene	15.328	180	318	1.178	ug/l #	76

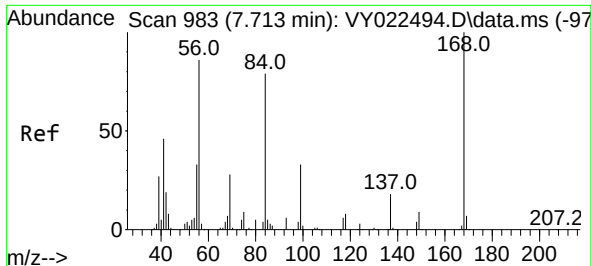
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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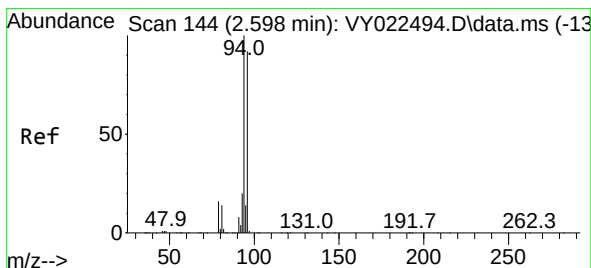
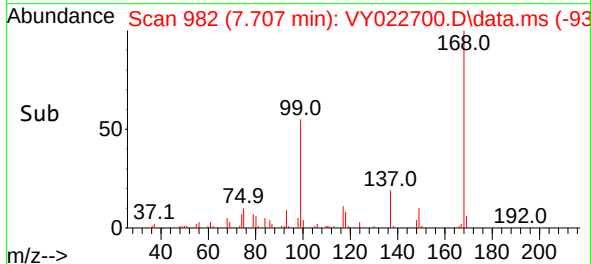
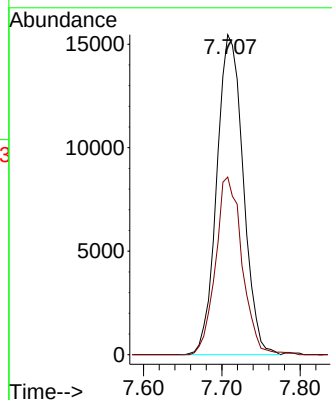
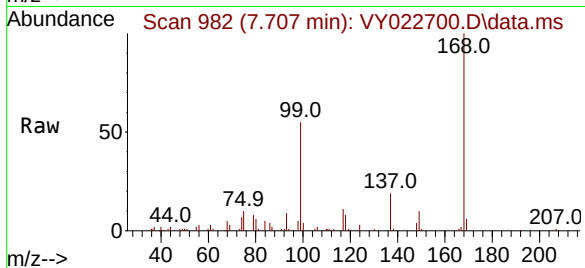




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

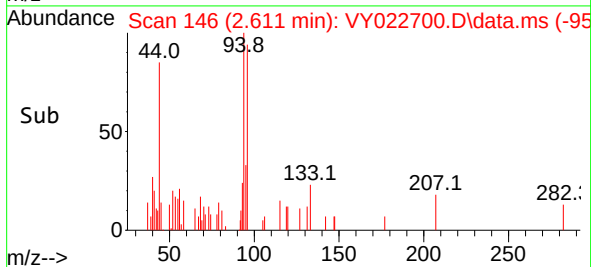
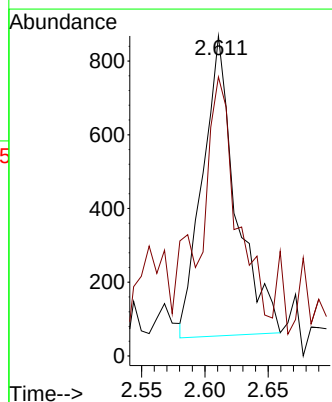
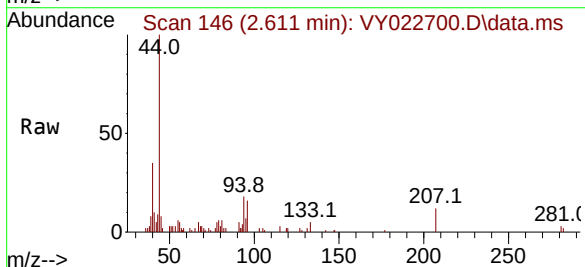
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

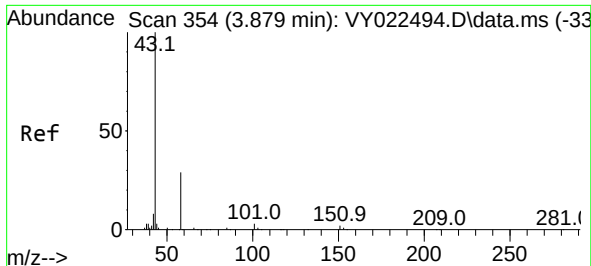
Tgt Ion:168 Resp: 36222
Ion Ratio Lower Upper
168 100
99 55.5 44.3 66.5



#5
Bromomethane
Concen: 1.403 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion: 94 Resp: 1495
Ion Ratio Lower Upper
94 100
96 58.8 74.0 111.0#

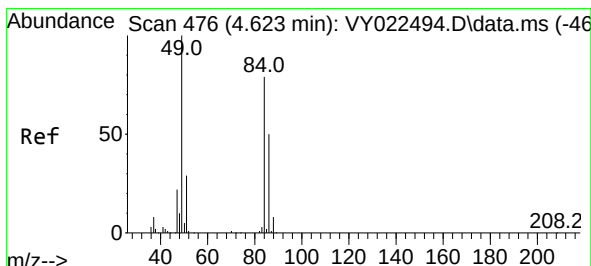
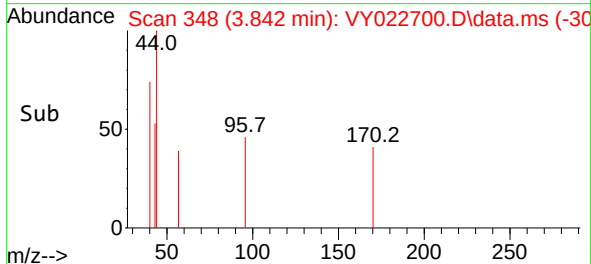
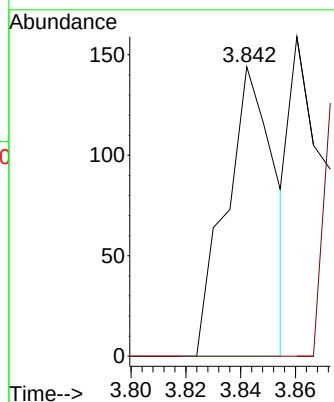
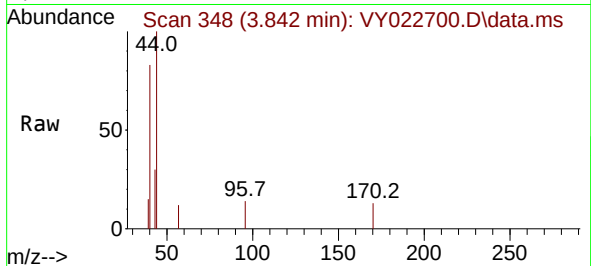




#16
Acetone
Concen: 2.139 ug/l
RT: 3.842 min Scan# 34
Delta R.T. -0.037 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

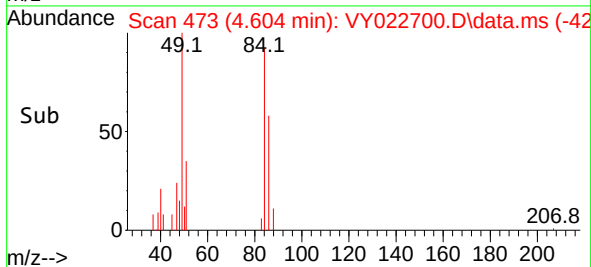
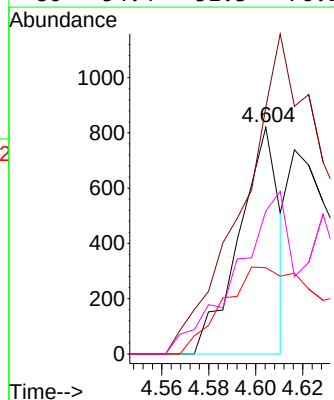
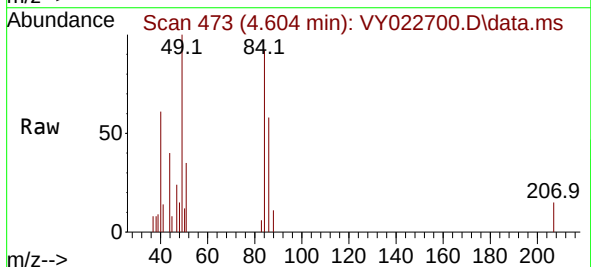
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

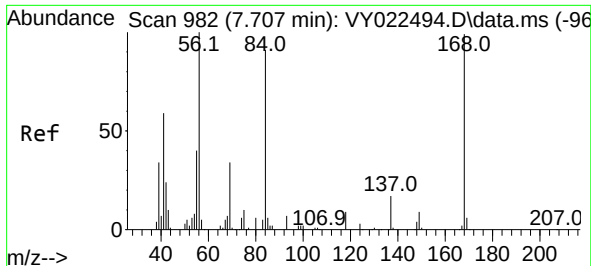
Tgt Ion: 43 Resp: 176
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



#20
Methylene Chloride
Concen: 2.086 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion: 84 Resp: 975
Ion Ratio Lower Upper
84 100
49 98.5 101.9 152.9#
51 38.0 29.8 44.8
86 54.4 51.3 76.9

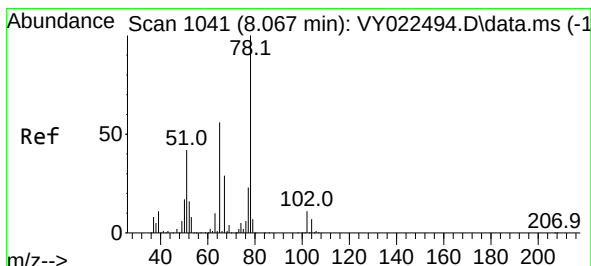
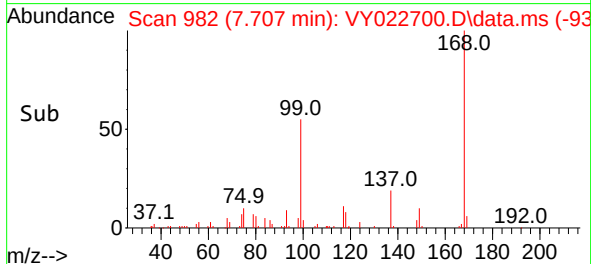
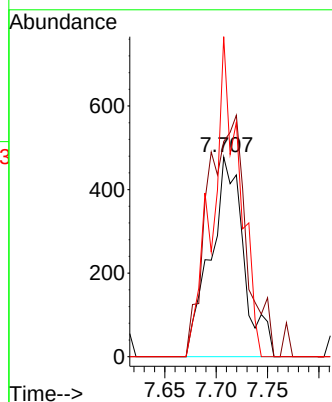
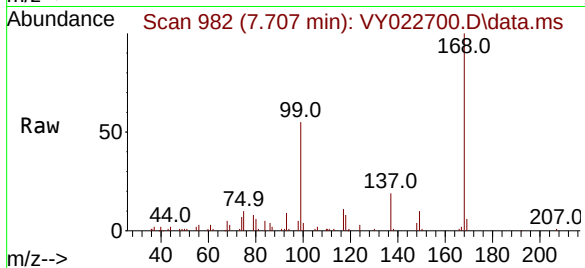




#31
Cyclohexane
Concen: 1.380 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

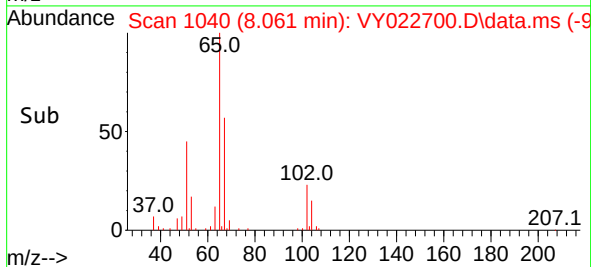
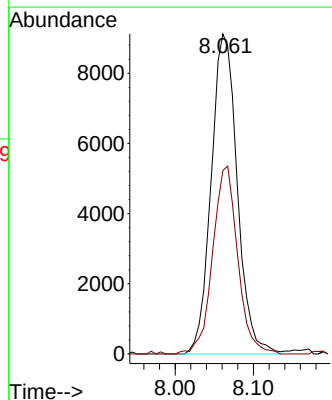
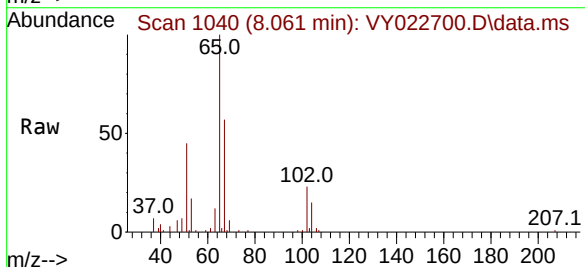
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

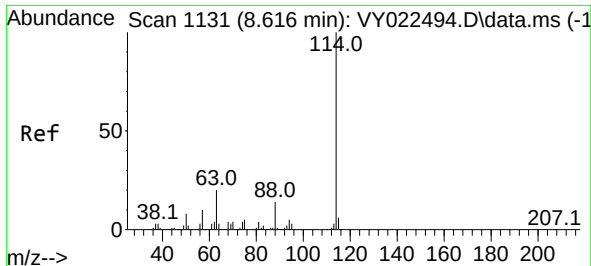
Tgt Ion: 56 Resp: 1074
Ion Ratio Lower Upper
56 100
69 107.7 27.0 40.6#
84 160.3 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 52.159 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion: 65 Resp: 21131
Ion Ratio Lower Upper
65 100
67 56.3 0.0 103.4

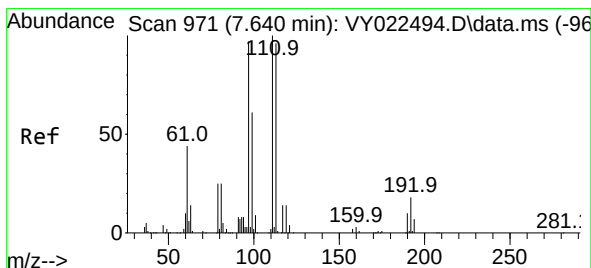
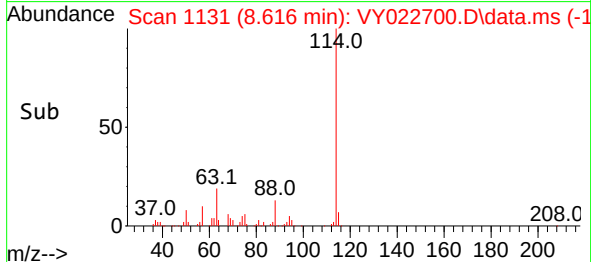
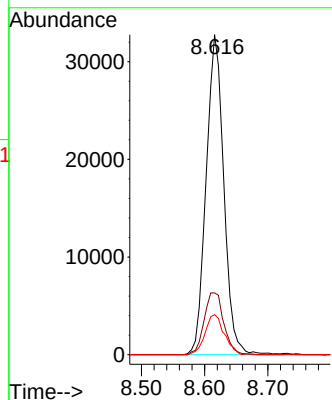
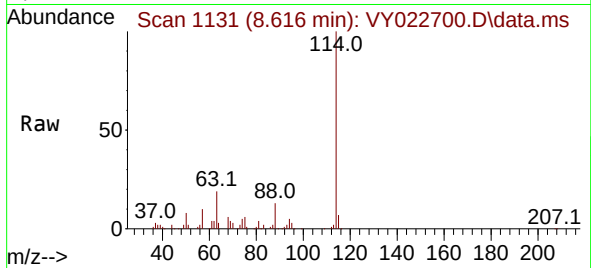




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

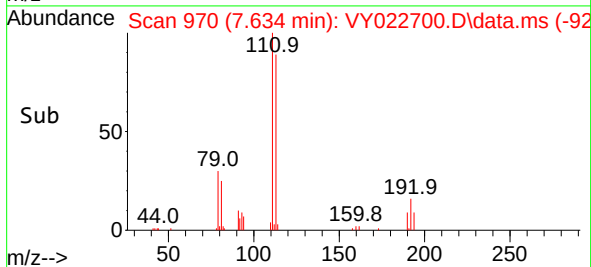
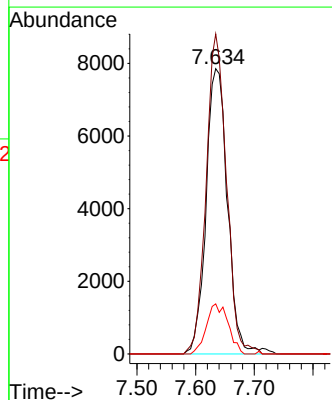
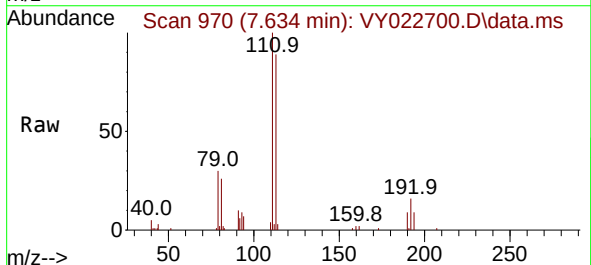
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

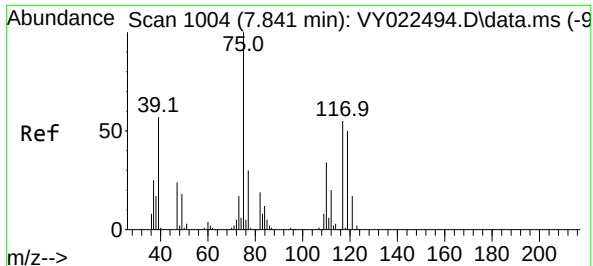
Tgt Ion:	114	Resp:	63830
Ion Ratio	Lower	Upper	
114	100		
63	19.3	0.0	40.8
88	12.5	0.0	27.8



#35
Dibromofluoromethane
Concen: 52.364 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion:	113	Resp:	19950
Ion Ratio	Lower	Upper	
113	100		
111	106.3	81.1	121.7
192	17.8	14.2	21.2

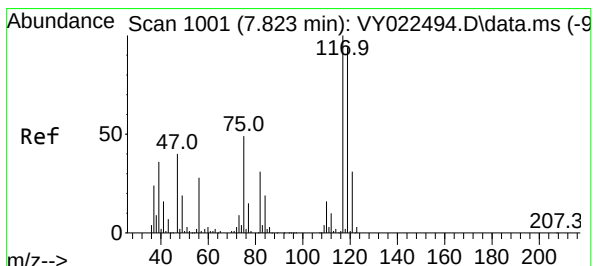
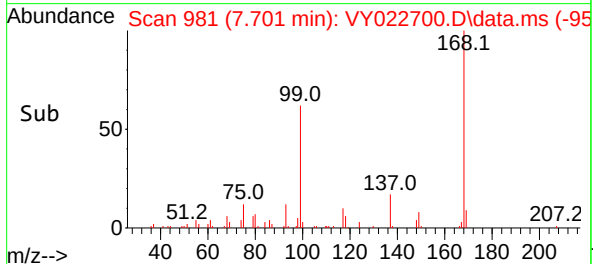
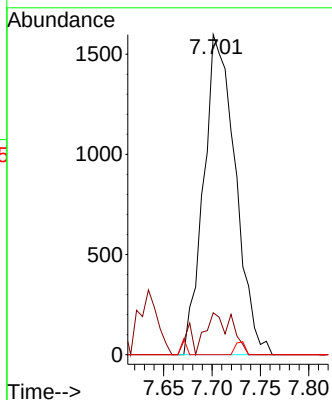
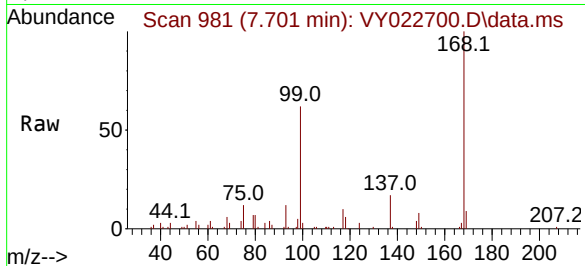




#36
 1,1-Dichloropropene
 Concen: 5.885 ug/l
 RT: 7.701 min Scan# 981
 Delta R.T. -0.140 min
 Lab File: VY022700.D
 Acq: 16 Jun 2025 11:46

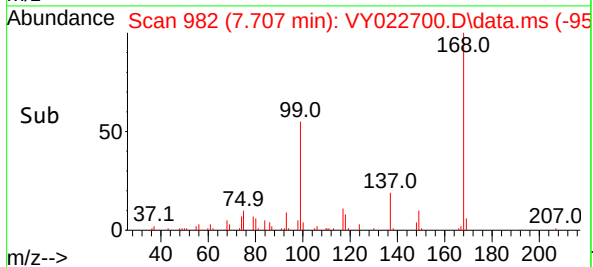
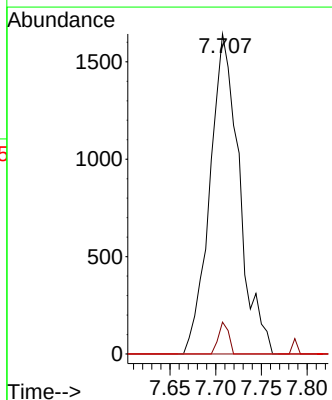
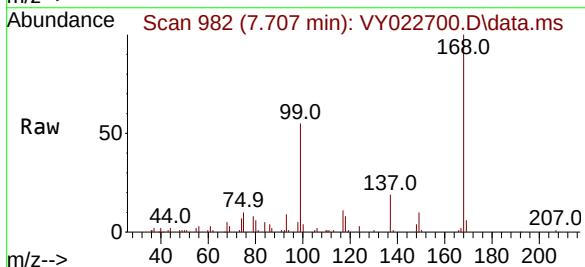
Instrument :
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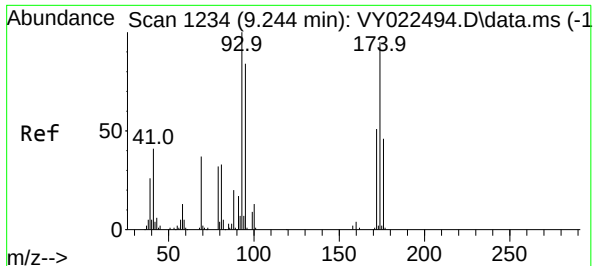
Tgt Ion: 75 Resp: 3639
 Ion Ratio Lower Upper
 75 100
 110 10.8 16.9 50.7#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 5.805 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.116 min
 Lab File: VY022700.D
 Acq: 16 Jun 2025 11:46

Tgt Ion: 117 Resp: 3682
 Ion Ratio Lower Upper
 117 100
 119 10.0 75.0 112.6#
 121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 22.942 ug/l

RT: 9.073 min Scan# 1

Delta R.T. -0.171 min

Lab File: VY022700.D

Acq: 16 Jun 2025 11:46

Instrument :

MSVOA_Y

ClientSampleId :

CL-01-061325

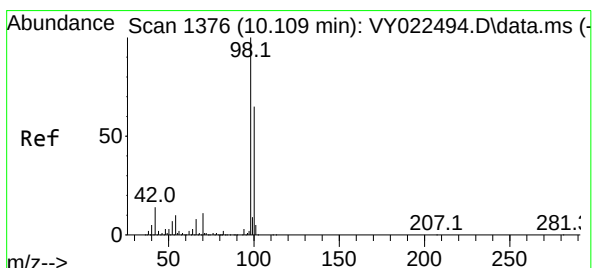
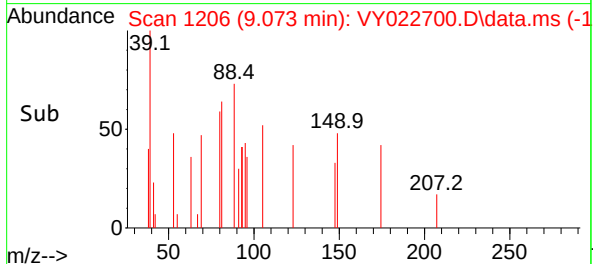
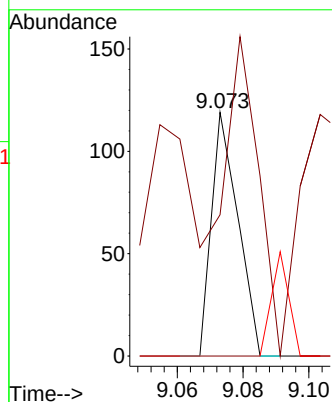
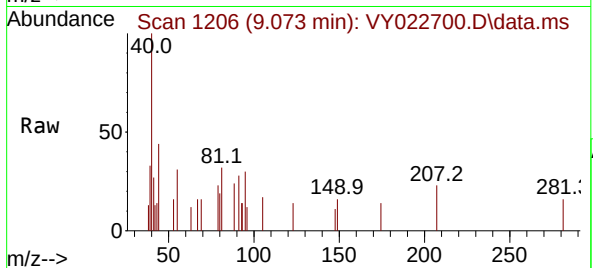
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 174.2 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 50.105 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY022700.D

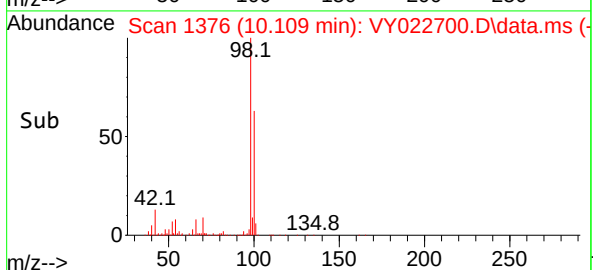
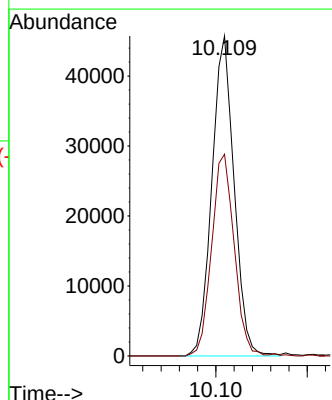
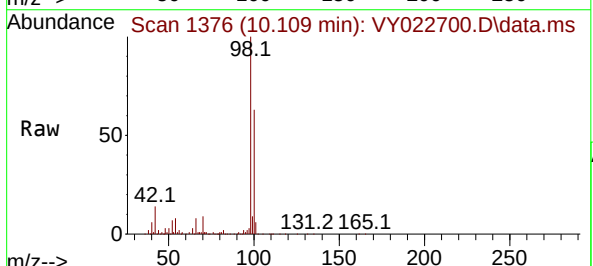
Acq: 16 Jun 2025 11:46

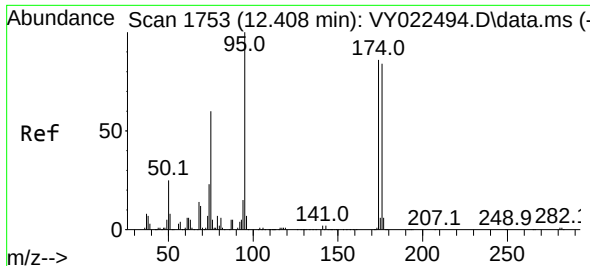
Tgt Ion: 98 Resp: 77133

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0

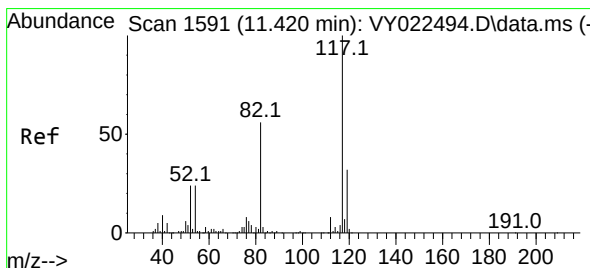
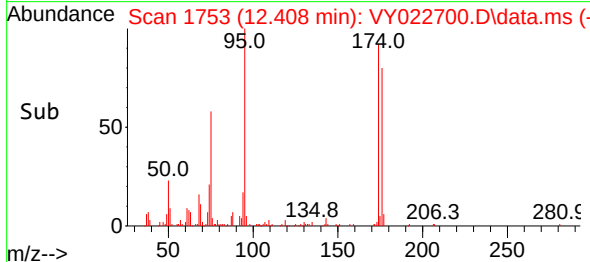
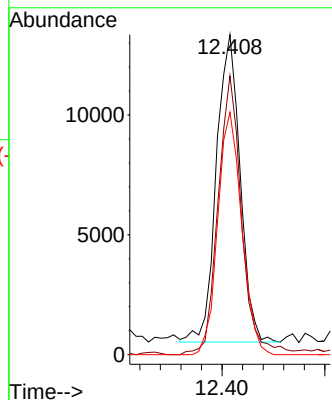
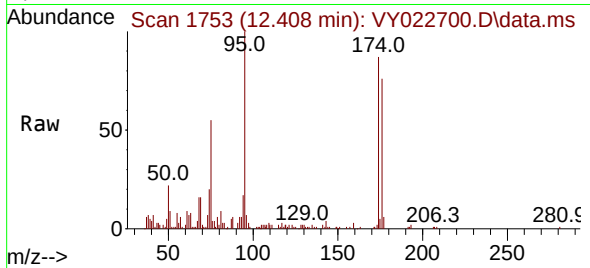




#62
4-Bromofluorobenzene
Concen: 44.775 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

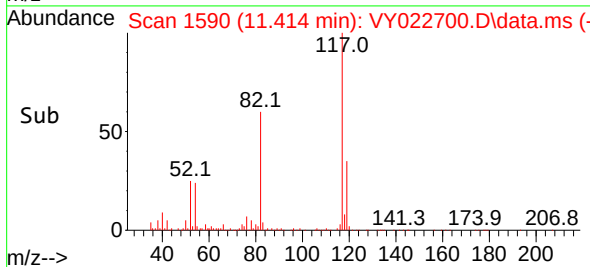
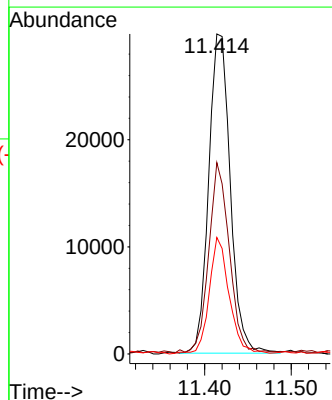
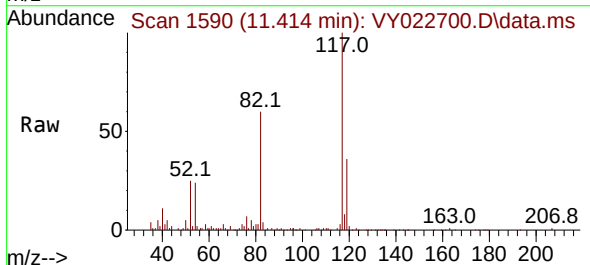
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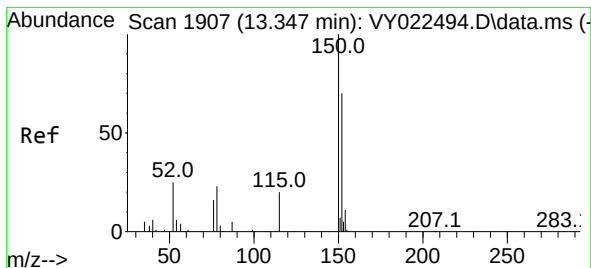
Tgt Ion:	95	Resp:	20537
Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	170.0
176	79.5	0.0	166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion:	117	Resp:	51595
Ion	Ratio	Lower	Upper
117	100		
82	59.2	44.6	66.8
119	36.0	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022700.D

Acq: 16 Jun 2025 11:46

Instrument :

MSVOA_Y

ClientSampleId :

CL-01-061325

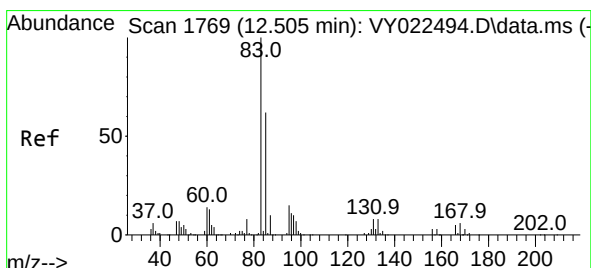
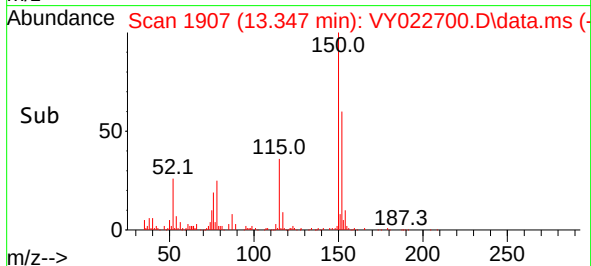
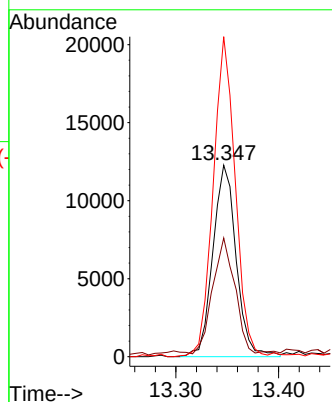
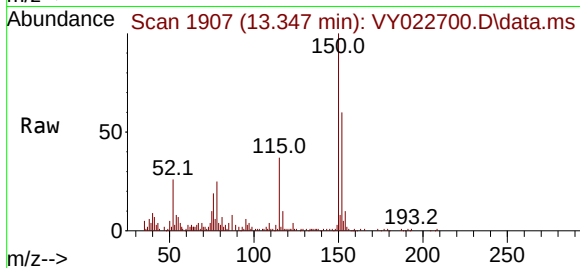
Tgt Ion:152 Resp: 19372

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 157.4 0.0 349.6



#75

1,1,2,2-Tetrachloroethane

Concen: 1.651 ug/l

RT: 12.554 min Scan# 1777

Delta R.T. 0.049 min

Lab File: VY022700.D

Acq: 16 Jun 2025 11:46

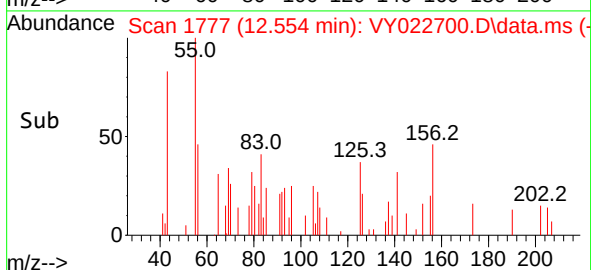
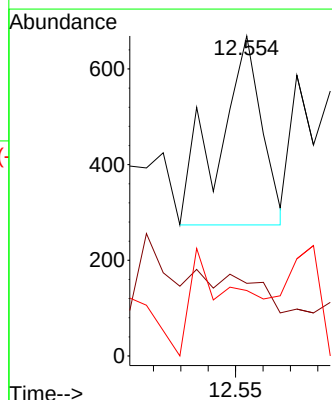
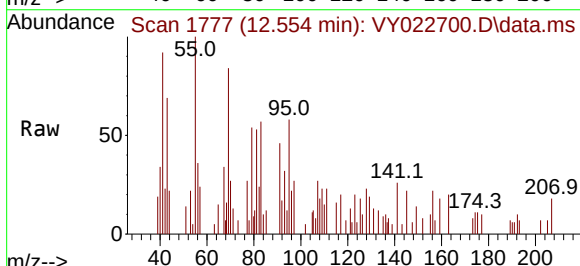
Tgt Ion: 83 Resp: 431

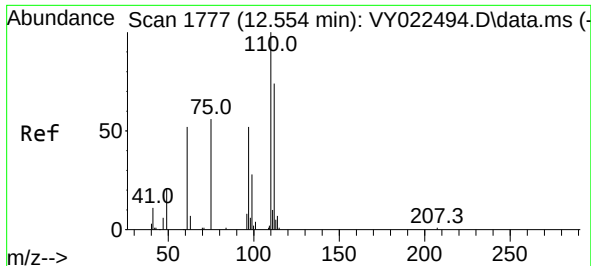
Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 62.9 32.6 97.8

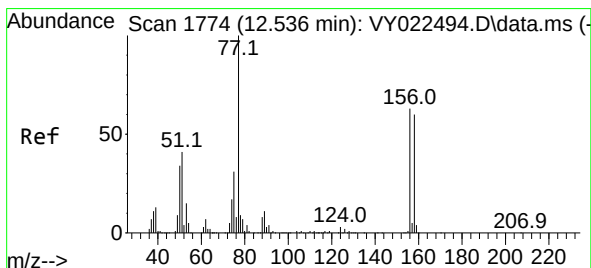
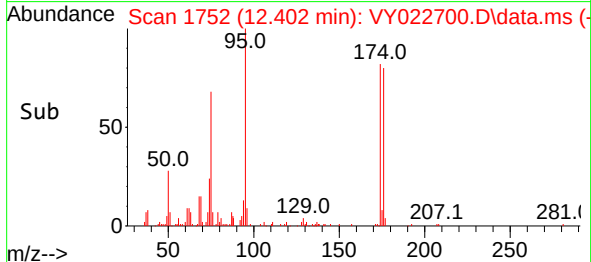
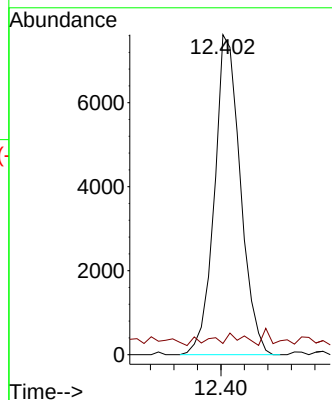
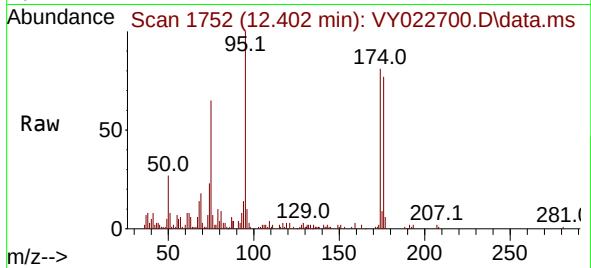




#76
1,2,3-Trichloropropane
Concen: 52.689 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

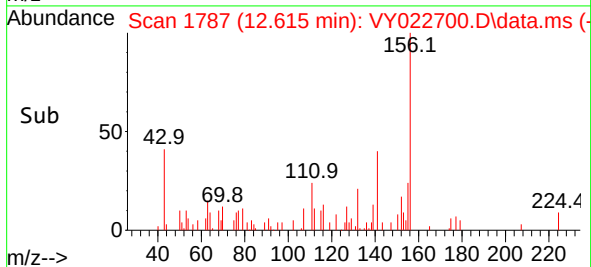
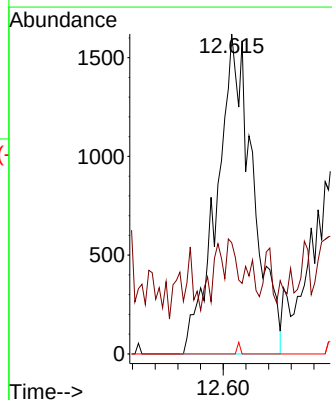
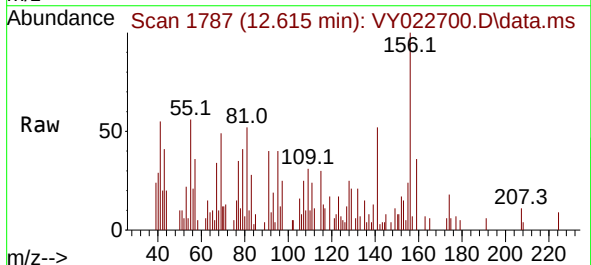
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

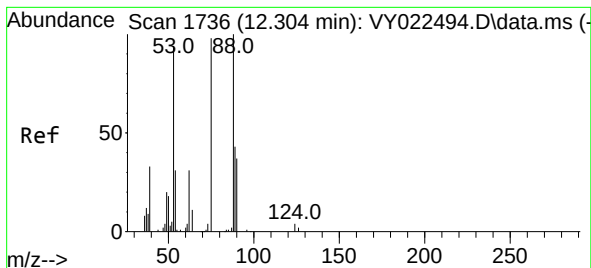
Tgt Ion: 75 Resp: 11677
Ion Ratio Lower Upper
75 100
77 2.3 0.0 0.0#



#77
Bromobenzene
Concen: 21.411 ug/l
RT: 12.615 min Scan# 1787
Delta R.T. 0.079 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion: 156 Resp: 7186
Ion Ratio Lower Upper
156 100
77 3.0 94.0 282.1#
158 0.3 48.2 144.6#

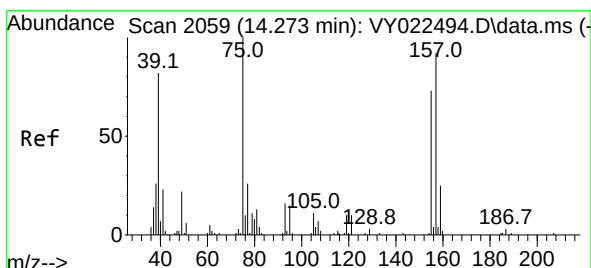
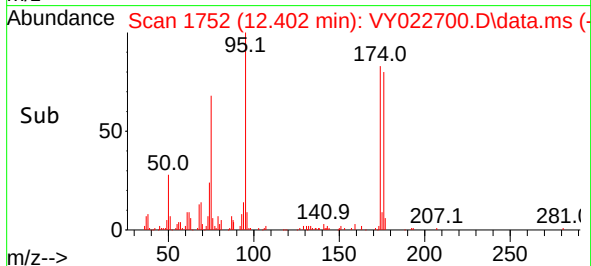
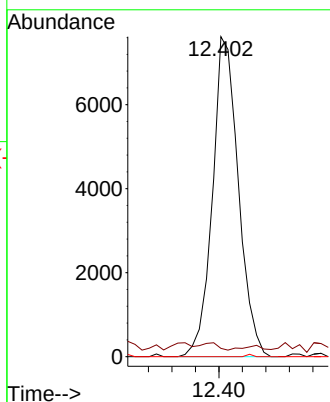
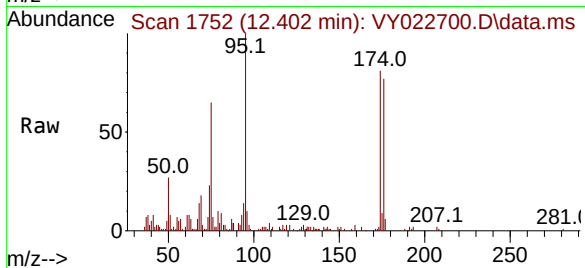




#81
trans-1,4-Dichloro-2-butene
Concen: 127.240 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

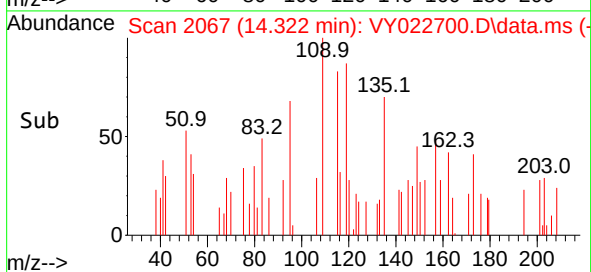
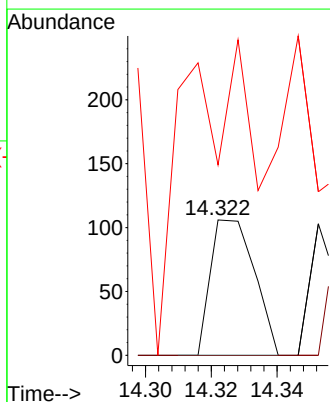
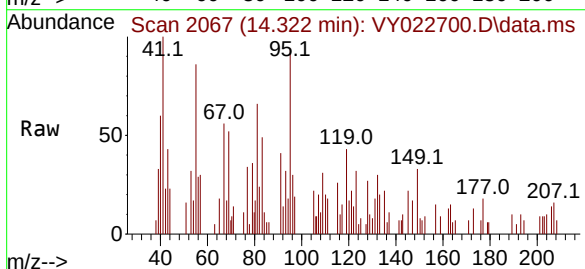
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

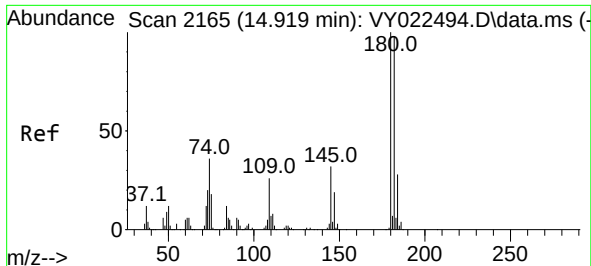
Tgt Ion: 75 Resp: 11677
Ion Ratio Lower Upper
75 100
53 1.2 78.5 117.7#
89 0.0 35.7 53.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.579 ug/l
RT: 14.322 min Scan# 2067
Delta R.T. 0.049 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

Tgt Ion: 75 Resp: 98
Ion Ratio Lower Upper
75 100
155 0.0 39.9 119.6#
157 359.2 54.0 162.0#

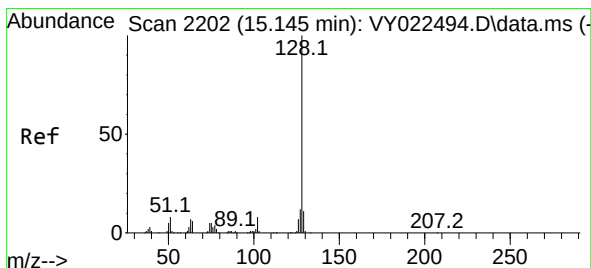
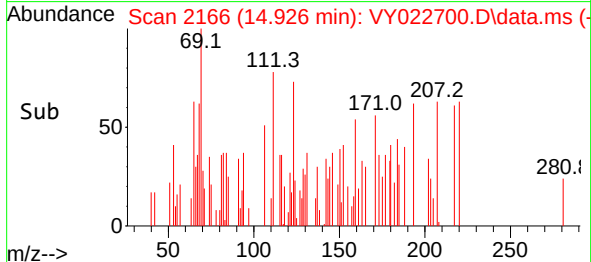
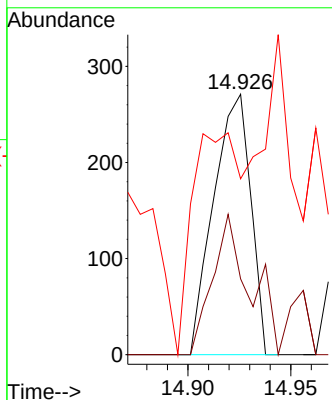
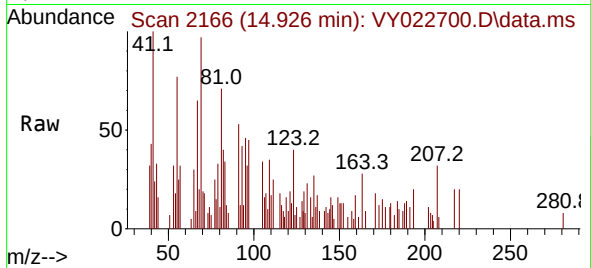




#93
1,2,4-Trichlorobenzene
Concen: 1.077 ug/l
RT: 14.926 min Scan# 2166
Delta R.T. 0.006 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

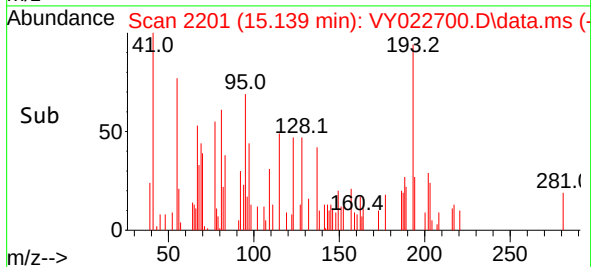
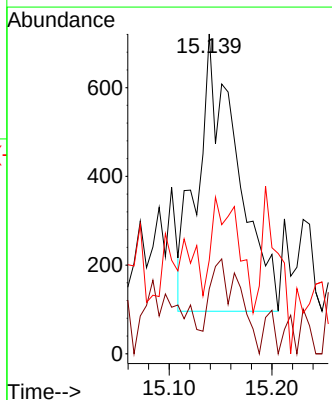
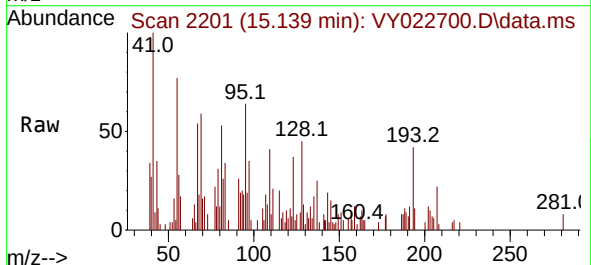
Instrument :
MSVOA_Y
ClientSampleId :
CL-01-061325

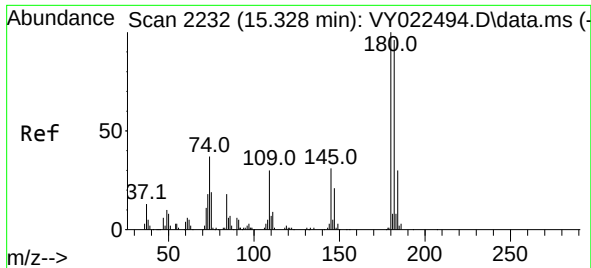
Tgt Ion:180 Resp: 339
Ion Ratio Lower Upper
180 100
182 54.6 48.4 145.3
145 110.3 15.5 46.5#



#95
Naphthalene
Concen: 2.772 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. -0.006 min
Lab File: VY022700.D
Acq: 16 Jun 2025 11:46

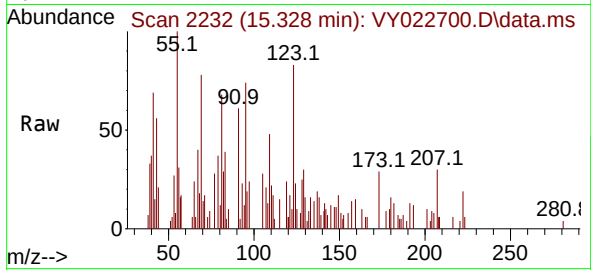
Tgt Ion:128 Resp: 1675
Ion Ratio Lower Upper
128 100
127 25.0 10.4 15.6#
129 27.8 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.178 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY022700.D
 Acq: 16 Jun 2025 11:46

Instrument :
 MSVOA_Y
 ClientSampleId :
 CL-01-061325



Tgt Ion:180 Resp: 318
 Ion Ratio Lower Upper
 180 100
 182 79.9 47.1 141.3
 145 58.2 15.2 45.6#

