

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
 Data File : VY022996.D
 Acq On : 18 Jul 2025 13:39
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Jul 19 01:53:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

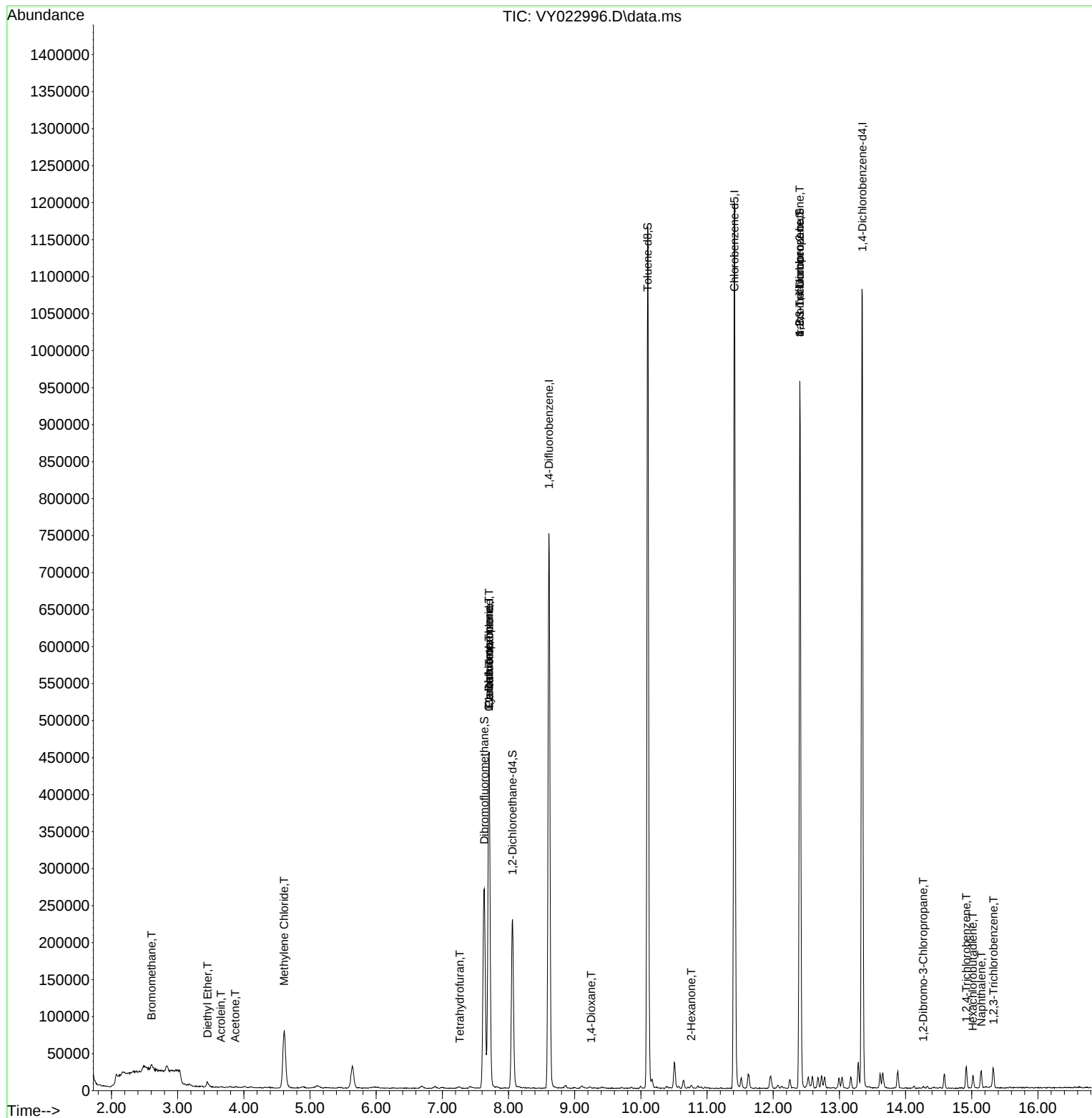
Internal Standards						
1) Pentafluorobenzene	7.707	168	350919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	640166	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	616420	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	270888	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	181830	51.184	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.360%	
35) Dibromofluoromethane	7.634	113	196611	48.417	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 96.840%	
50) Toluene-d8	10.103	98	753594	46.797	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 93.600%	
62) 4-Bromofluorobenzene	12.401	95	277810	54.804	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 109.600%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.604	94	5937	1.282	ug/l	93
8) Diethyl Ether	3.452	74	3576	1.834	ug/l	98
13) Acrolein	3.653	56	292	2.892	ug/l	93
16) Acetone	3.873	43	2540	3.944	ug/l	96
20) Methylene Chloride	4.610	84	55924	4.817	ug/l	94
29) Tetrahydrofuran	7.262	42	1011	1.729	ug/l #	65
31) Cyclohexane	7.701	56	8171	1.155	ug/l #	30
36) 1,1-Dichloropropene	7.701	75	29264	4.575	ug/l #	50
38) Carbon Tetrachloride	7.707	117	35421	5.097	ug/l #	17
49) 1,4-Dioxane	9.250	88	37	1.510	ug/l #	21
59) 2-Hexanone	10.762	43	2720	1.728	ug/l	89
76) 1,2,3-Trichloropropane	12.401	75	154660	45.819	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	154660	136.469	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.267	75	605	1.226	ug/l	73
93) 1,2,4-Trichlorobenzene	14.919	180	8072	1.806	ug/l	96
94) Hexachlorobutadiene	15.017	225	2980	1.058	ug/l	94
95) Naphthalene	15.145	128	17881	2.494	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	7879	2.135	ug/l	96

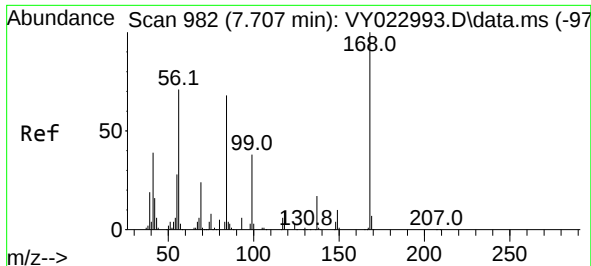
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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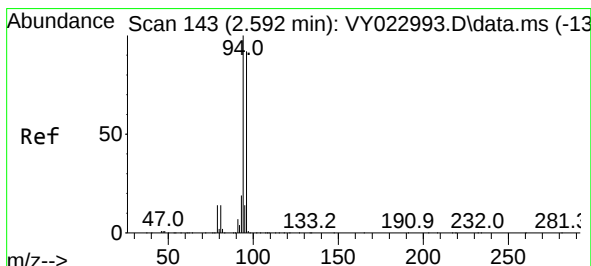
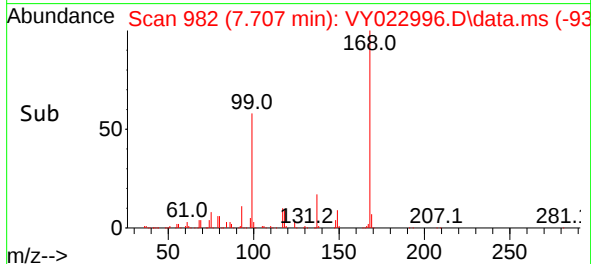
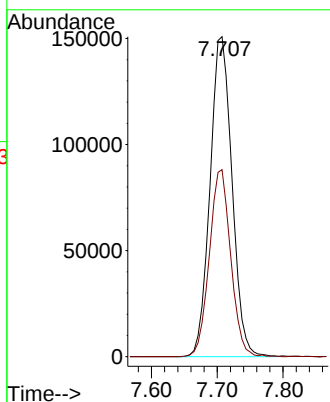
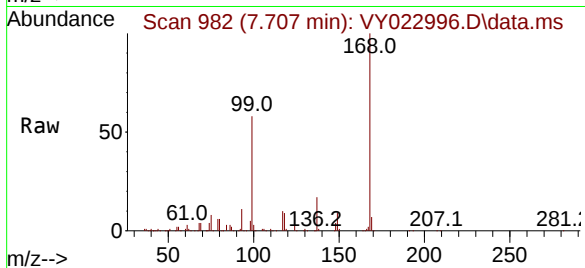




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

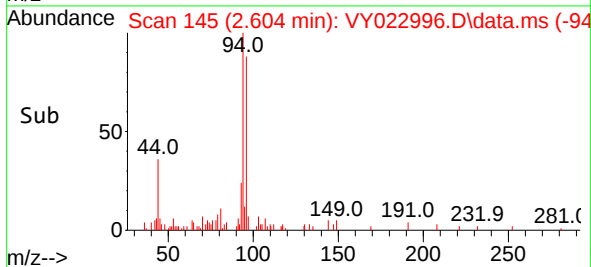
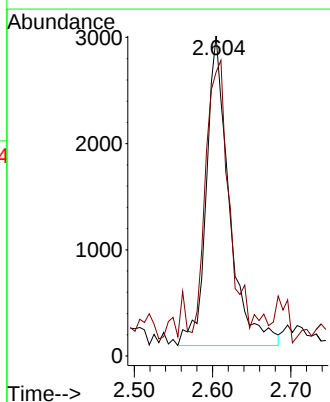
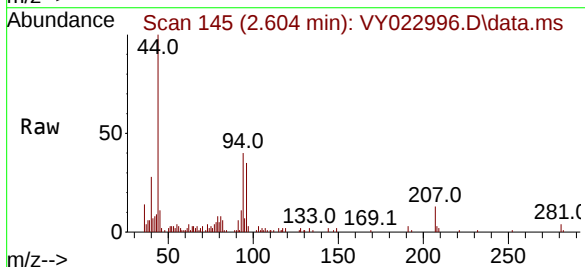
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

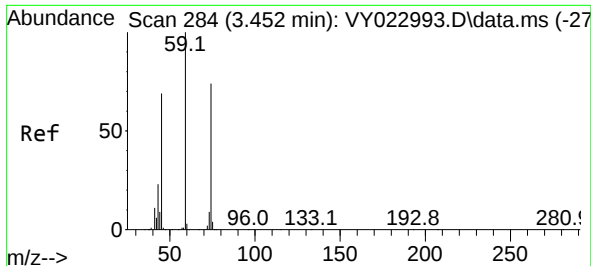
Tgt Ion:168 Resp: 350919
Ion Ratio Lower Upper
168 100
99 58.5 44.4 66.6



#5
Bromomethane
Concen: 1.282 ug/l
RT: 2.604 min Scan# 145
Delta R.T. 0.012 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion: 94 Resp: 5937
Ion Ratio Lower Upper
94 100
96 85.5 73.9 110.9





#8

Diethyl Ether

Concen: 1.834 ug/l

RT: 3.452 min Scan# 21

Delta R.T. 0.000 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

Instrument :

MSVOA_Y

ClientSampleId :

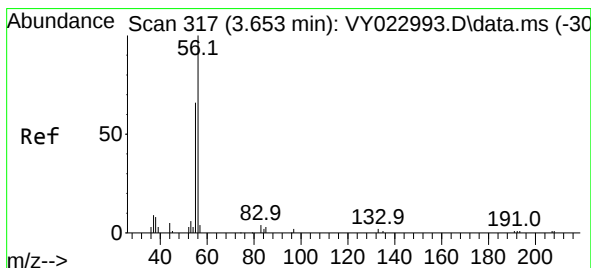
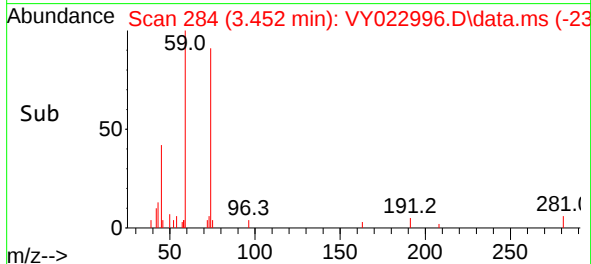
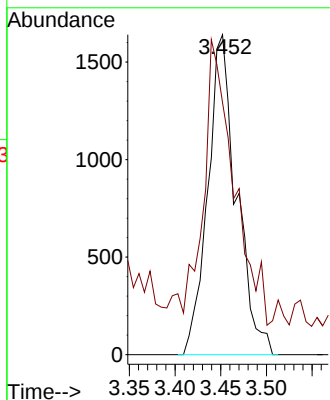
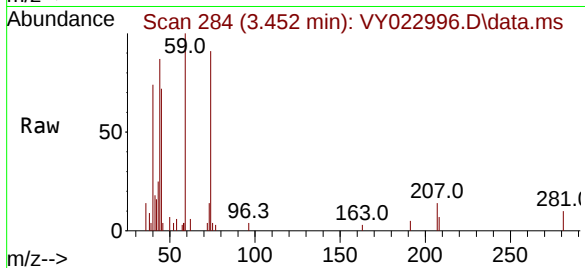
VIBLK

Tgt Ion: 74 Resp: 3576

Ion Ratio Lower Upper

74 100

45 92.1 45.1 135.2



#13

Acrolein

Concen: 2.892 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY022996.D

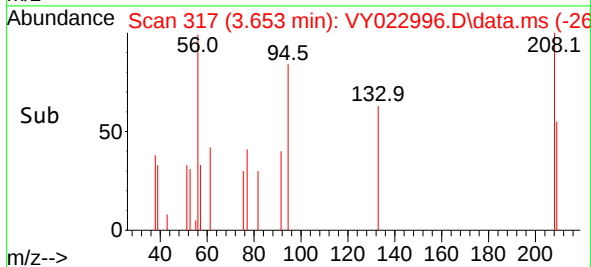
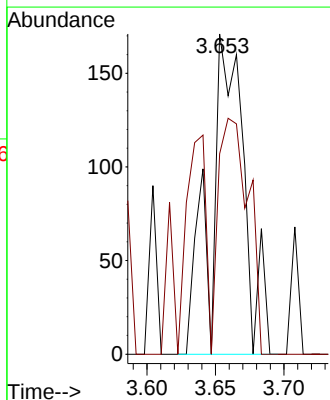
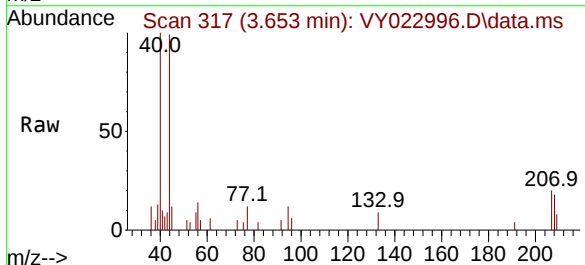
Acq: 18 Jul 2025 13:39

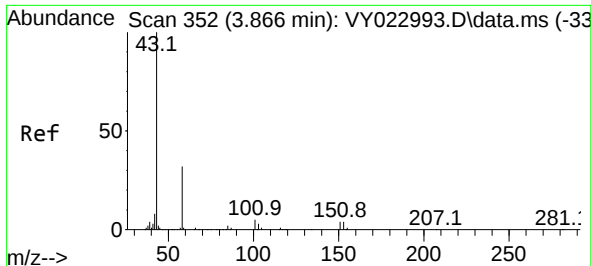
Tgt Ion: 56 Resp: 292

Ion Ratio Lower Upper

56 100

55 66.1 57.8 86.6

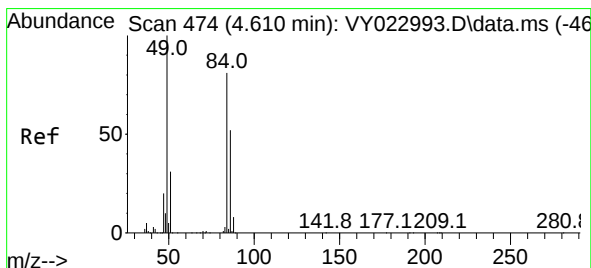
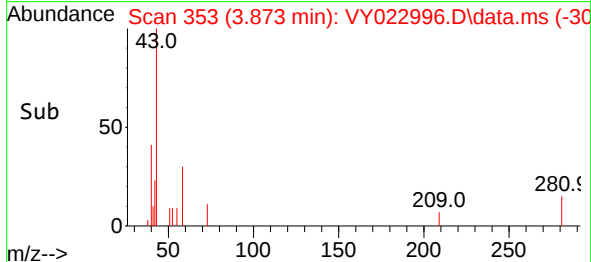
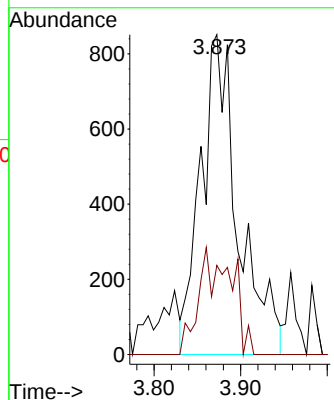
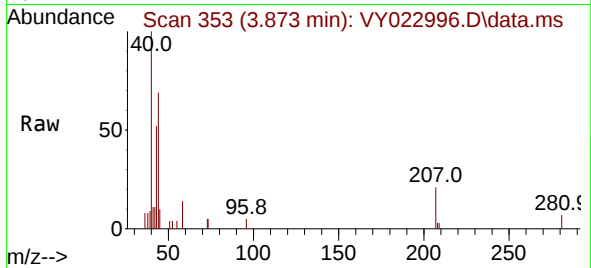




#16
Acetone
Concen: 3.944 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

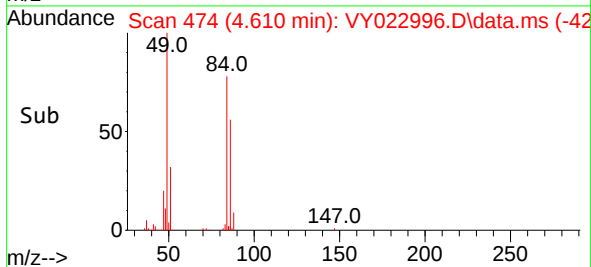
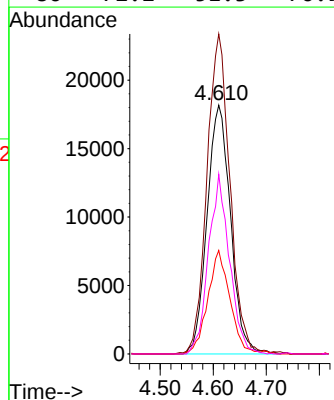
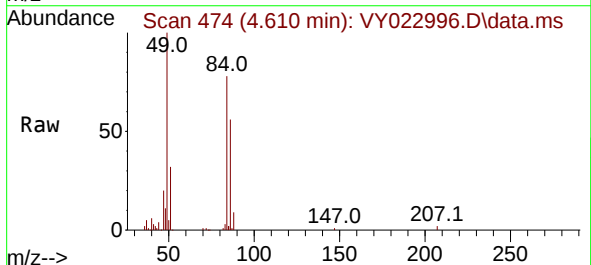
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

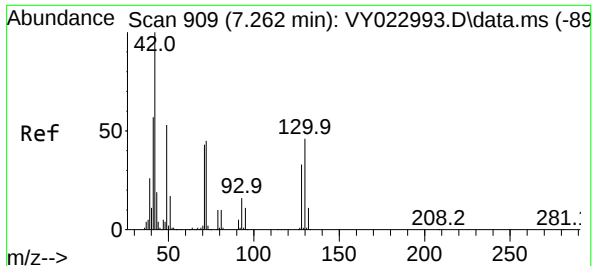
Tgt Ion: 43 Resp: 2540
Ion Ratio Lower Upper
43 100
58 30.6 26.2 39.4



#20
Methylene Chloride
Concen: 4.817 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion: 84 Resp: 55924
Ion Ratio Lower Upper
84 100
49 128.0 98.2 147.4
51 41.6 30.5 45.7
86 72.2 51.3 76.9





#29

Tetrahydrofuran

Concen: 1.729 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

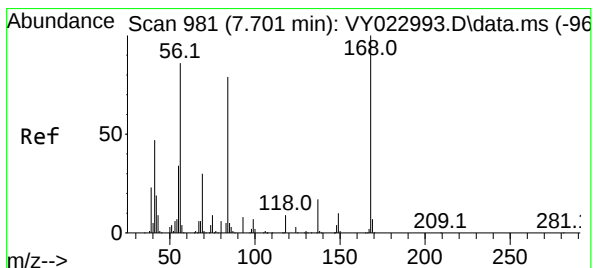
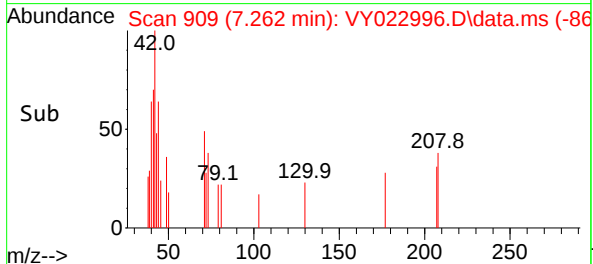
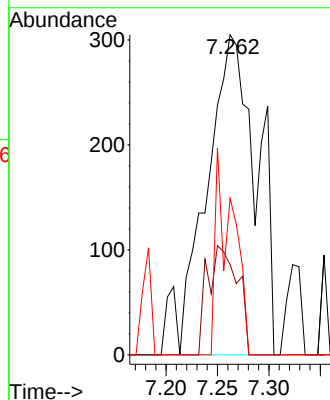
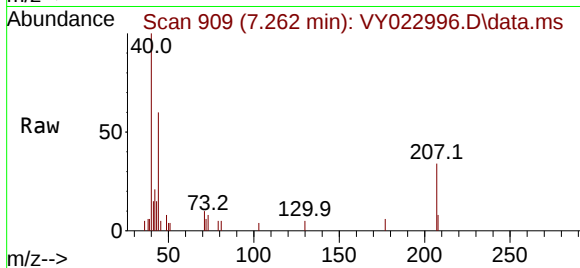
Tgt Ion: 42 Resp: 1011

Ion Ratio Lower Upper

42 100

72 21.0 37.5 56.3#

71 22.9 34.2 51.4#



#31

Cyclohexane

Concen: 1.155 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

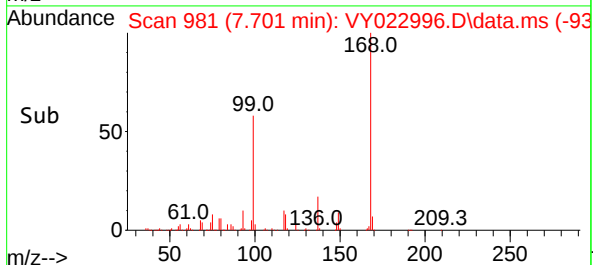
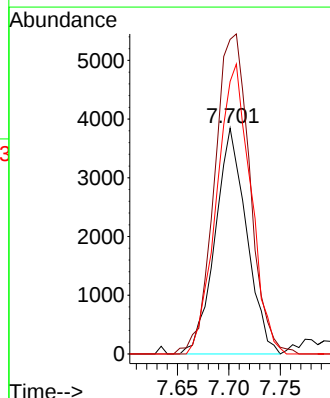
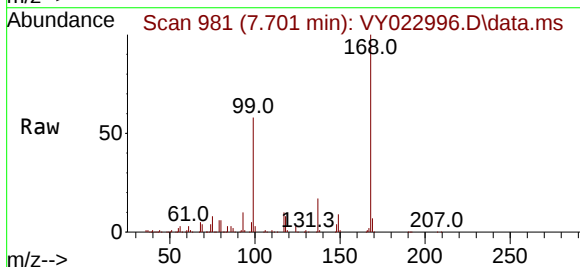
Tgt Ion: 56 Resp: 8171

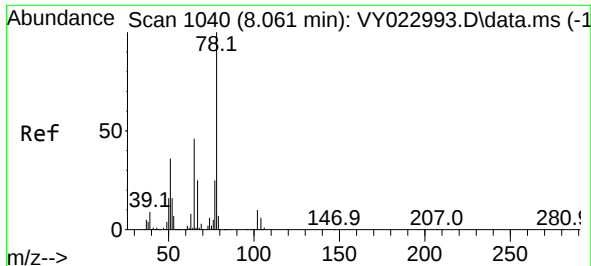
Ion Ratio Lower Upper

56 100

69 136.8 28.1 42.1#

84 120.7 73.5 110.3#





#33

1,2-Dichloroethane-d4

Concen: 51.184 ug/l

RT: 8.061 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

Instrument :

MSVOA_Y

ClientSampleId :

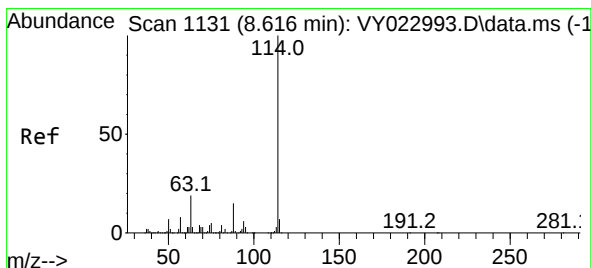
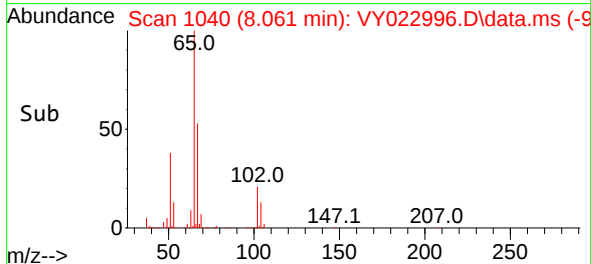
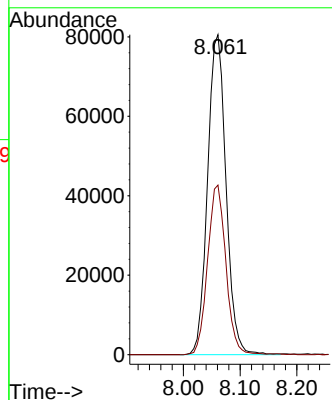
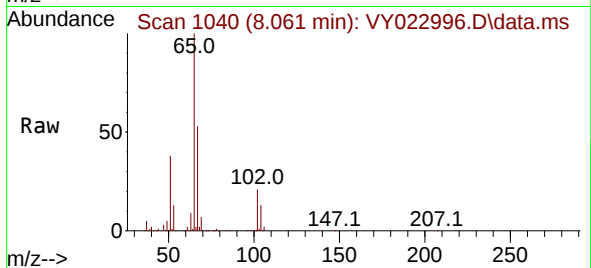
VIBLK

Tgt Ion: 65 Resp: 181830

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

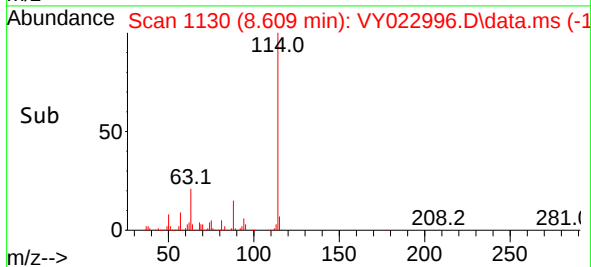
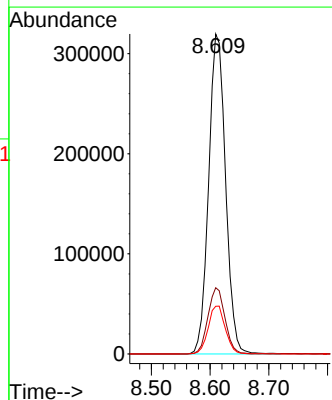
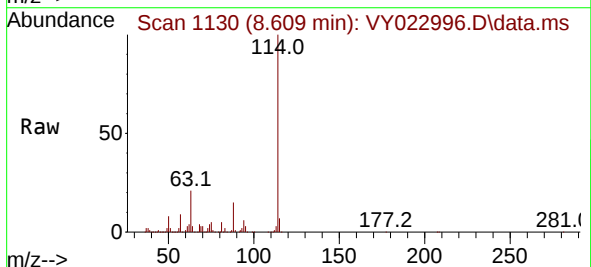
Tgt Ion: 114 Resp: 640166

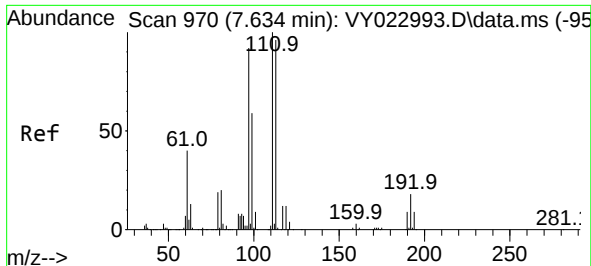
Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

88 14.9 0.0 30.2

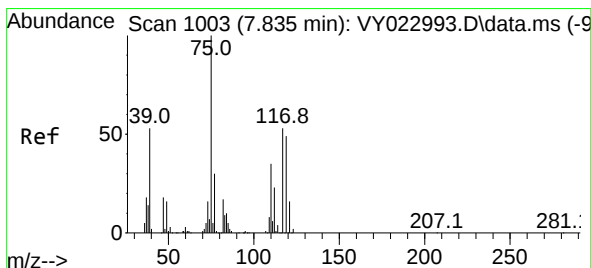
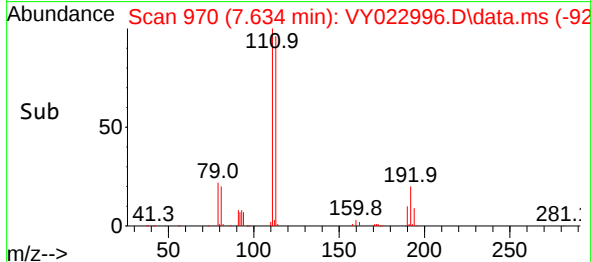
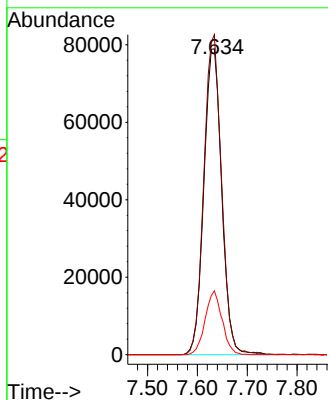
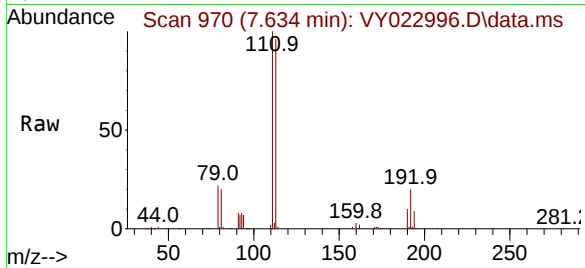




#35
Dibromofluoromethane
Concen: 48.417 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

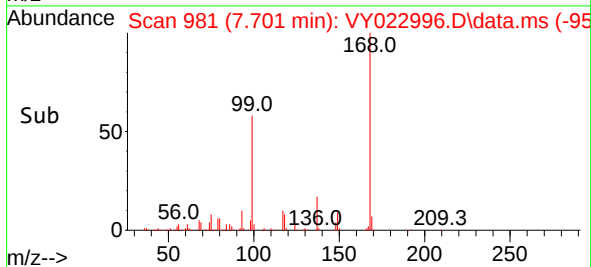
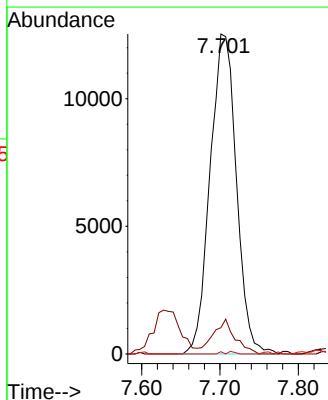
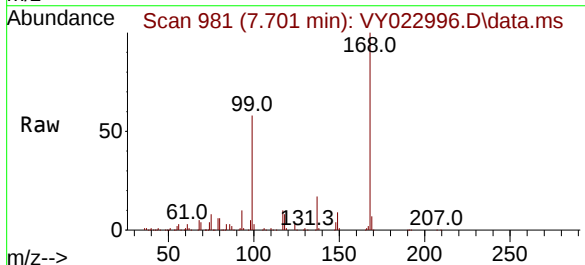
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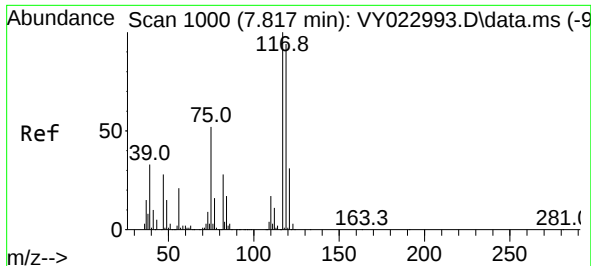
Tgt Ion:113 Resp: 196611
Ion Ratio Lower Upper
113 100
111 103.1 83.2 124.8
192 19.8 15.3 22.9



#36
1,1-Dichloropropene
Concen: 4.575 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.134 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion: 75 Resp: 29264
Ion Ratio Lower Upper
75 100
110 9.0 17.3 51.9#
77 0.3 24.6 37.0#

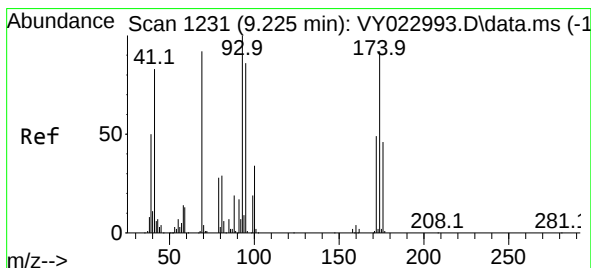
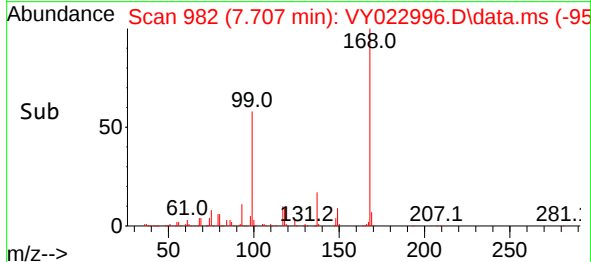
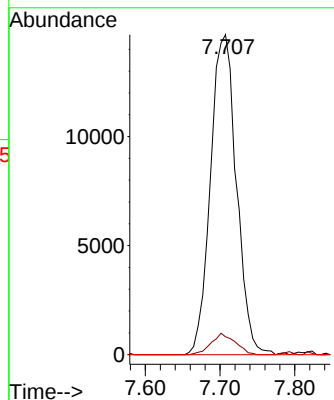
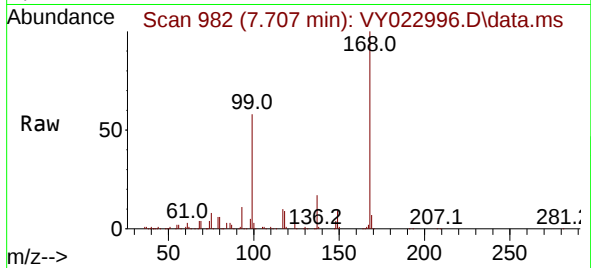




#38
Carbon Tetrachloride
Concen: 5.097 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

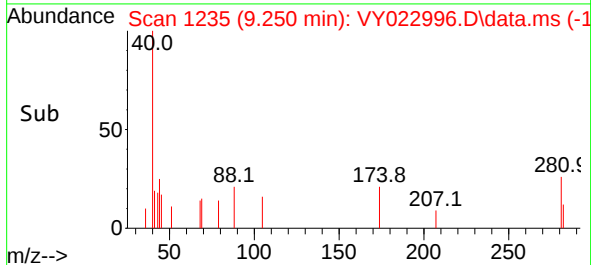
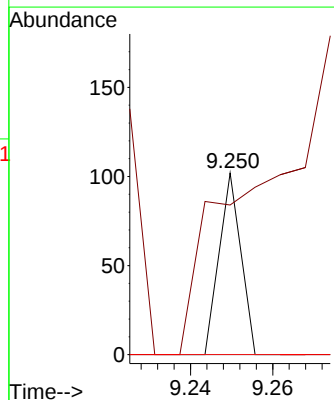
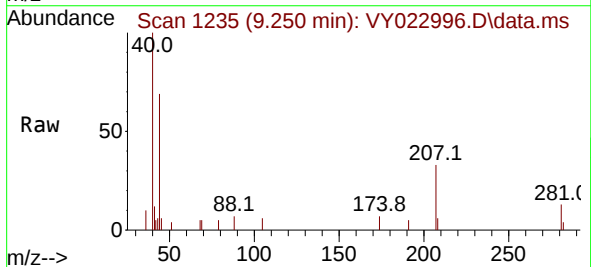
Instrument :
MSVOA_Y
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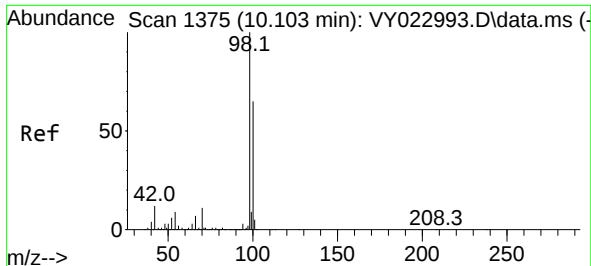
Tgt Ion:117 Resp: 35421
Ion Ratio Lower Upper
117 100
119 5.6 74.9 112.3#
121 0.0 24.6 37.0#



#49
1,4-Dioxane
Concen: 1.510 ug/l
RT: 9.250 min Scan# 1235
Delta R.T. 0.024 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion: 88 Resp: 37
Ion Ratio Lower Upper
88 100
43 0.0 28.7 43.1#
58 0.0 59.8 89.6#

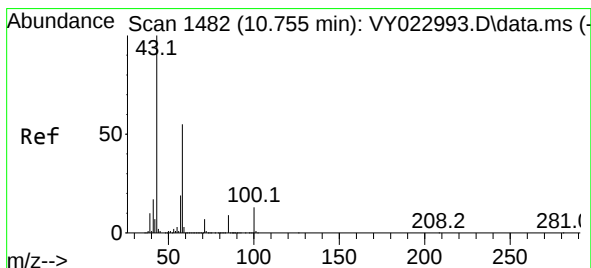
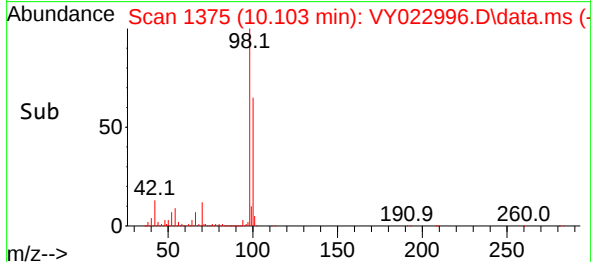
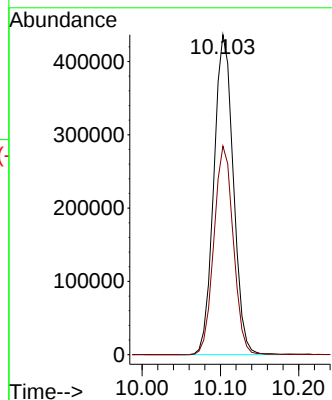
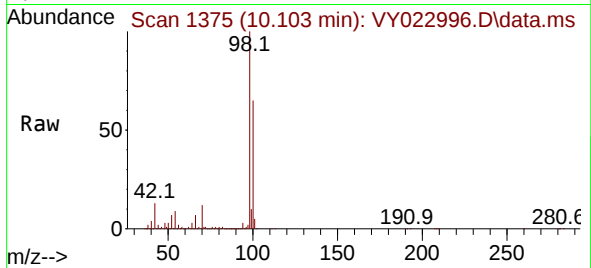




#50
Toluene-d8
Concen: 46.797 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

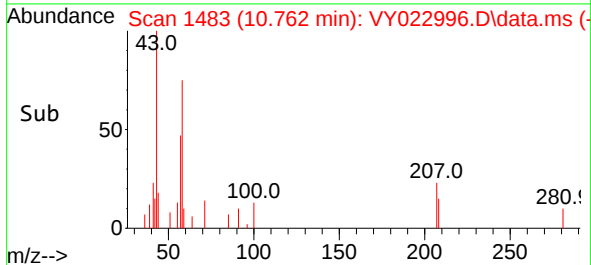
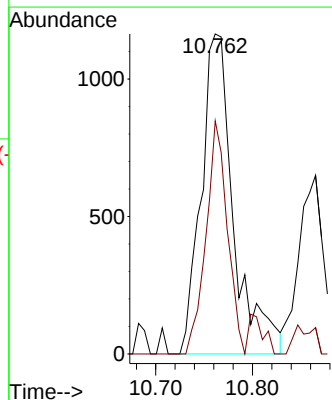
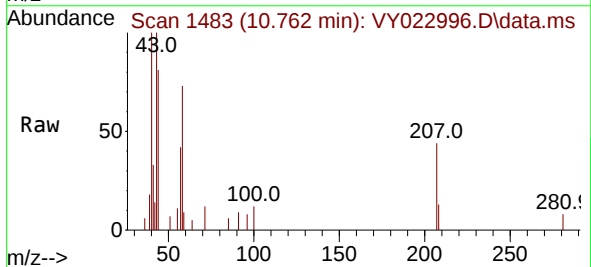
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

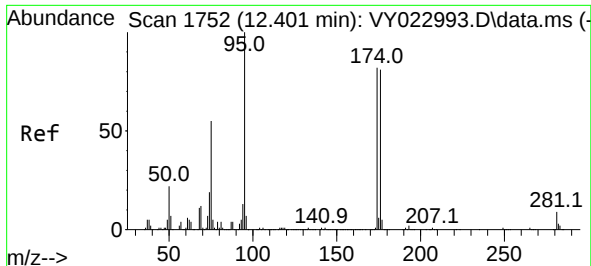
Tgt Ion: 98 Resp: 753594
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



#59
2-Hexanone
Concen: 1.728 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion: 43 Resp: 2720
Ion Ratio Lower Upper
43 100
58 47.8 28.1 84.3

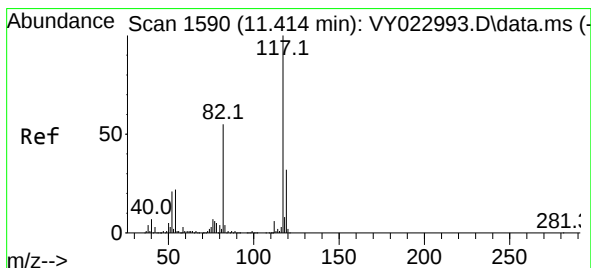
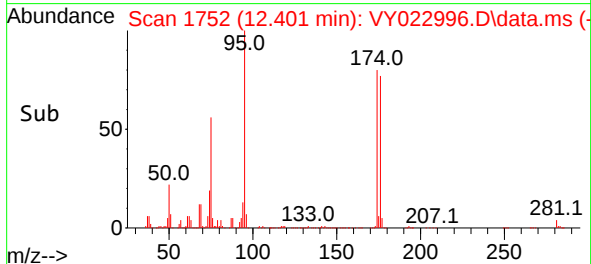
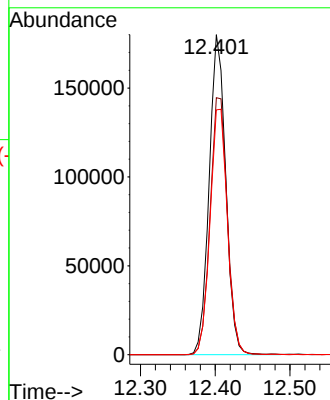
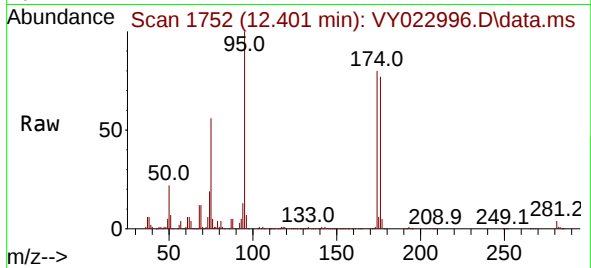




#62
4-Bromofluorobenzene
Concen: 54.804 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

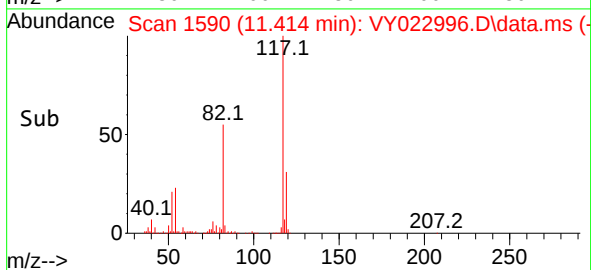
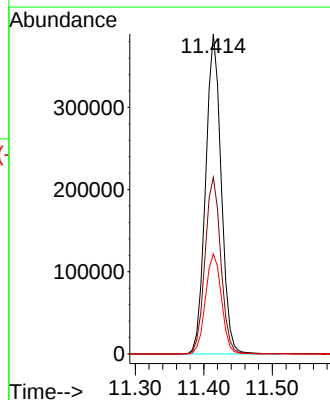
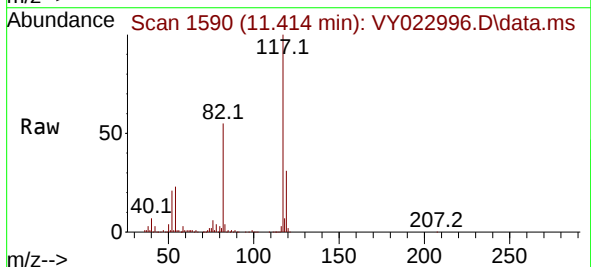
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

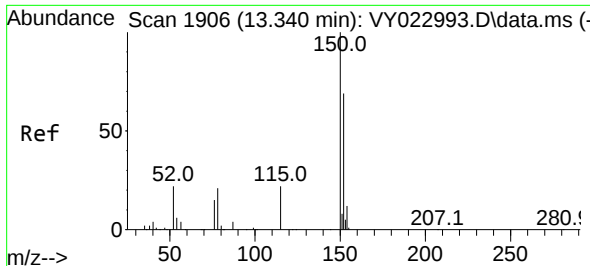
Tgt Ion: 95 Resp: 277810
Ion Ratio Lower Upper
95 100
174 83.8 0.0 170.8
176 80.4 0.0 163.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion: 117 Resp: 616420
Ion Ratio Lower Upper
117 100
82 55.2 44.3 66.5
119 31.2 25.8 38.8

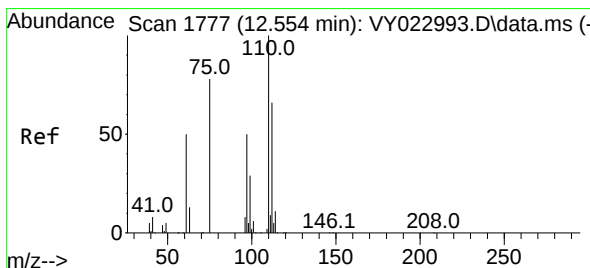
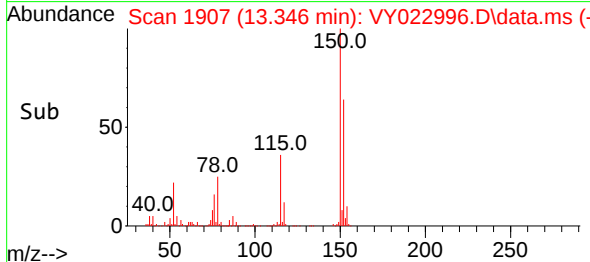
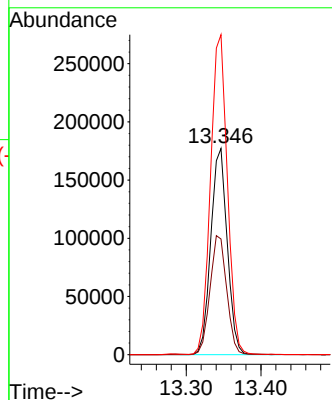
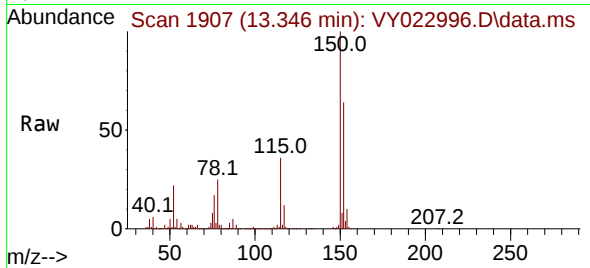




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1906
 Delta R.T. 0.006 min
 Lab File: VY022996.D
 Acq: 18 Jul 2025 13:39

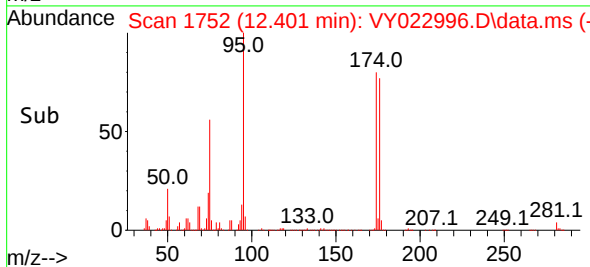
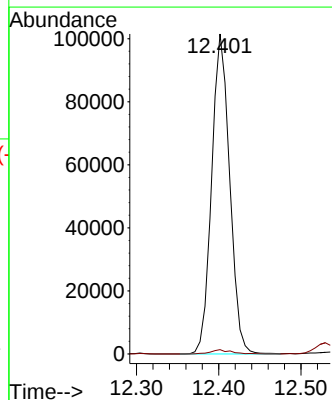
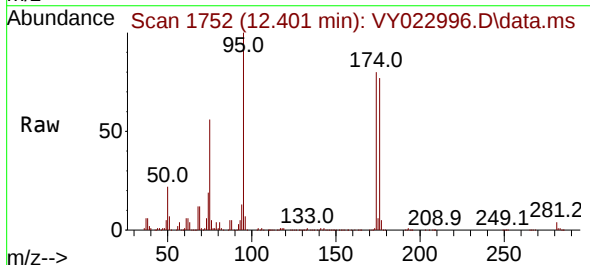
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

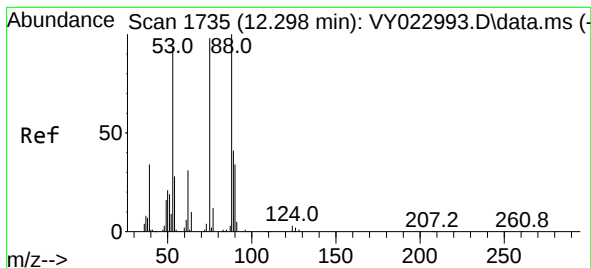
Tgt Ion:152 Resp: 270888
 Ion Ratio Lower Upper
 152 100
 115 58.3 29.4 88.2
 150 157.9 0.0 350.0



#76
 1,2,3-Trichloropropane
 Concen: 45.819 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. -0.152 min
 Lab File: VY022996.D
 Acq: 18 Jul 2025 13:39

Tgt Ion: 75 Resp: 154660
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#

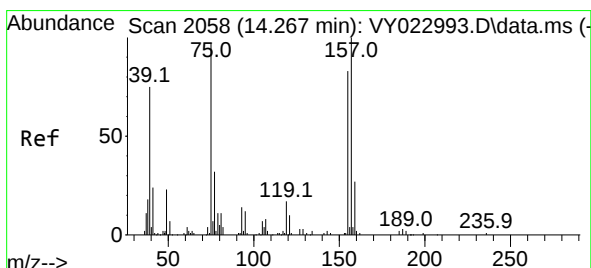
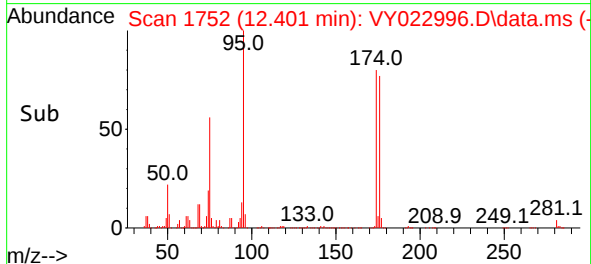
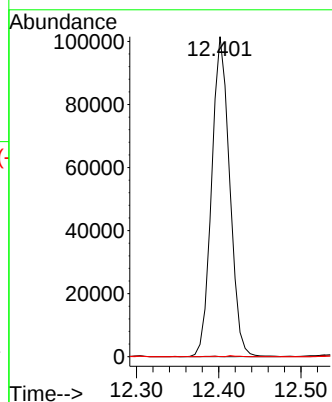
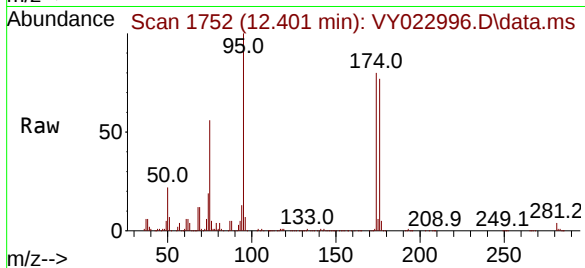




#81
 trans-1,4-Dichloro-2-butene
 Concen: 136.469 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY022996.D
 Acq: 18 Jul 2025 13:39

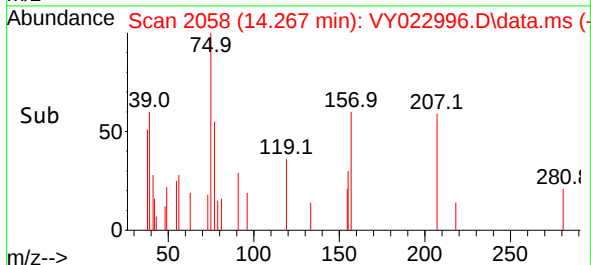
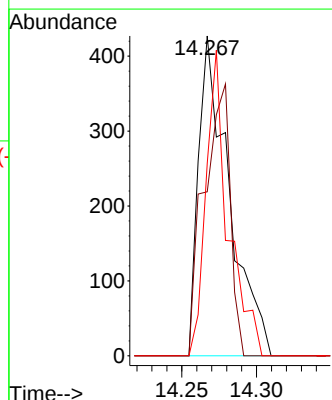
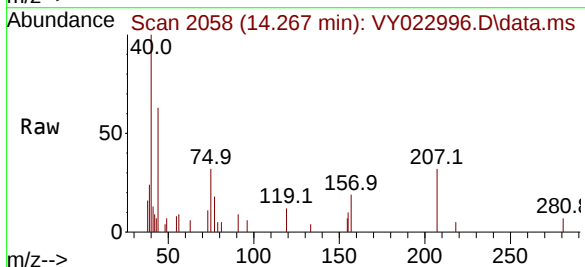
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

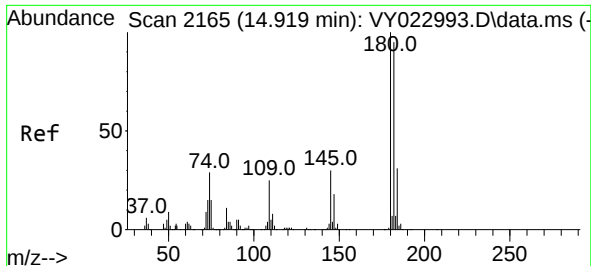
Tgt Ion: 75 Resp: 154660
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.1 114.1#
 89 0.0 36.1 54.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.226 ug/l
 RT: 14.267 min Scan# 2058
 Delta R.T. 0.000 min
 Lab File: VY022996.D
 Acq: 18 Jul 2025 13:39

Tgt Ion: 75 Resp: 605
 Ion Ratio Lower Upper
 75 100
 155 72.9 42.8 128.3
 157 69.4 54.3 162.9

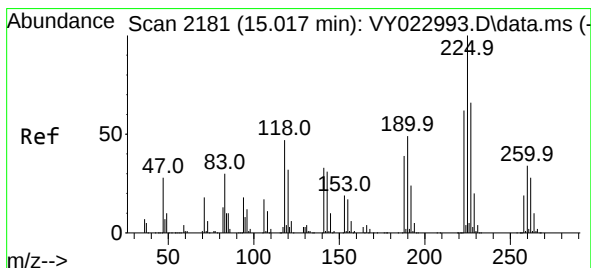
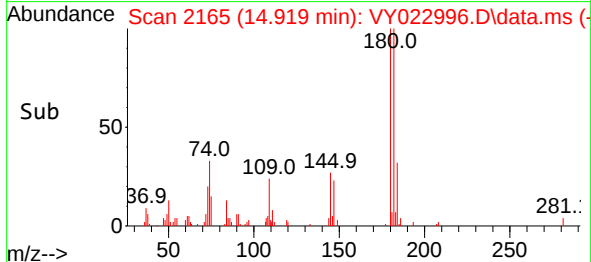
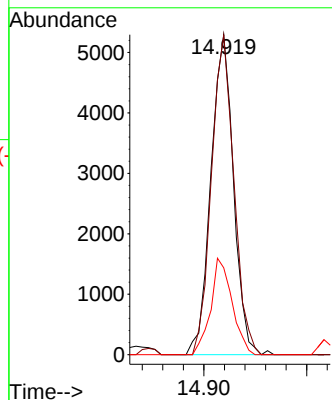
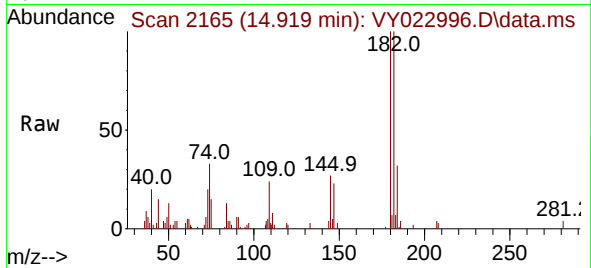




#93
1,2,4-Trichlorobenzene
Concen: 1.806 ug/l
RT: 14.919 min Scan# 2165
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

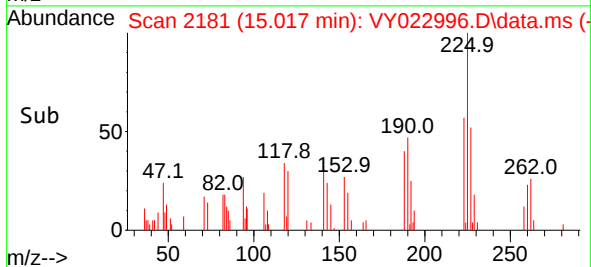
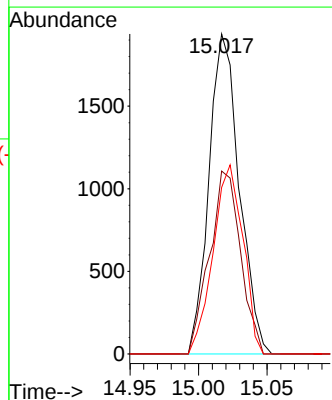
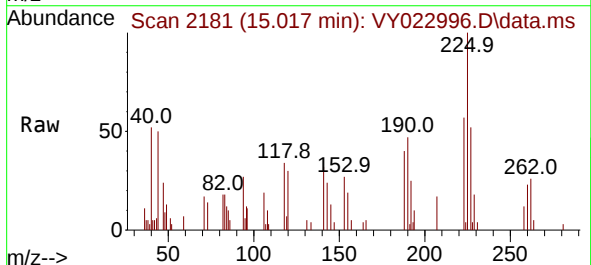
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

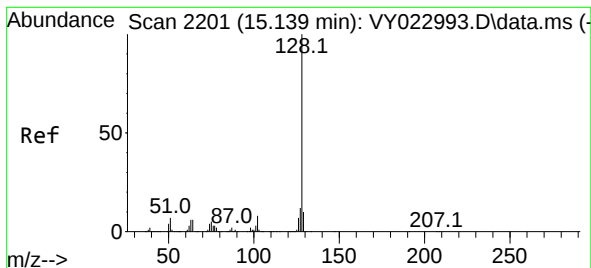
Tgt Ion:	180	Resp:	8072
Ion	Ratio	Lower	Upper
180	100		
182	99.2	47.5	142.5
145	28.6	14.9	44.9



#94
Hexachlorobutadiene
Concen: 1.058 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022996.D
Acq: 18 Jul 2025 13:39

Tgt Ion:	225	Resp:	2980
Ion	Ratio	Lower	Upper
225	100		
223	58.7	31.4	94.0
227	58.3	32.1	96.5





#95

Naphthalene

Concen: 2.494 ug/l

RT: 15.145 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

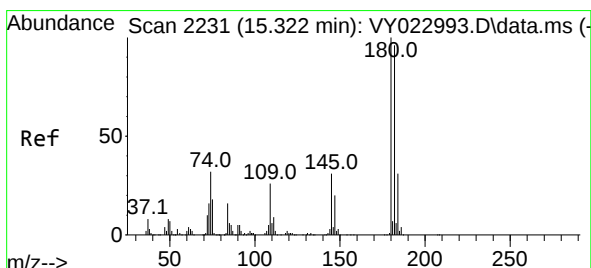
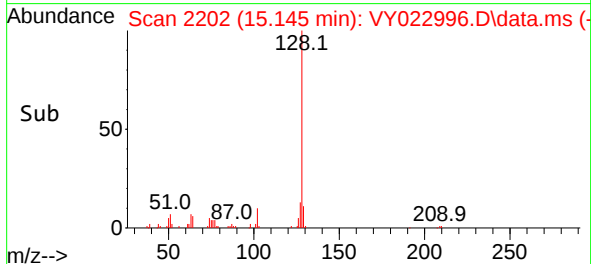
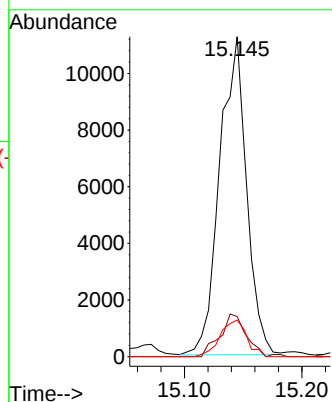
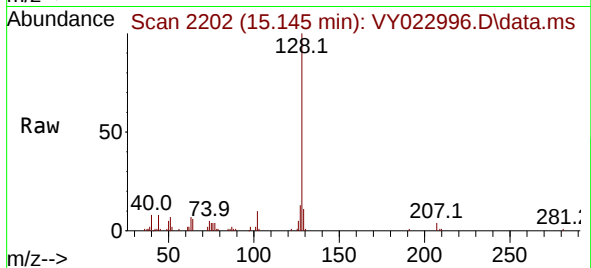
Tgt Ion:128 Resp: 17881

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.2

129 11.4 8.6 12.8



#96

1,2,3-Trichlorobenzene

Concen: 2.135 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.006 min

Lab File: VY022996.D

Acq: 18 Jul 2025 13:39

Tgt Ion:180 Resp: 7879

Ion Ratio Lower Upper

180 100

182 98.6 47.3 142.0

145 33.9 15.8 47.4

