

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
 Data File : VY021484.D
 Acq On : 11 Mar 2025 14:21
 Operator : SY/MD
 Sample : Q1508-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 12 01:25:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

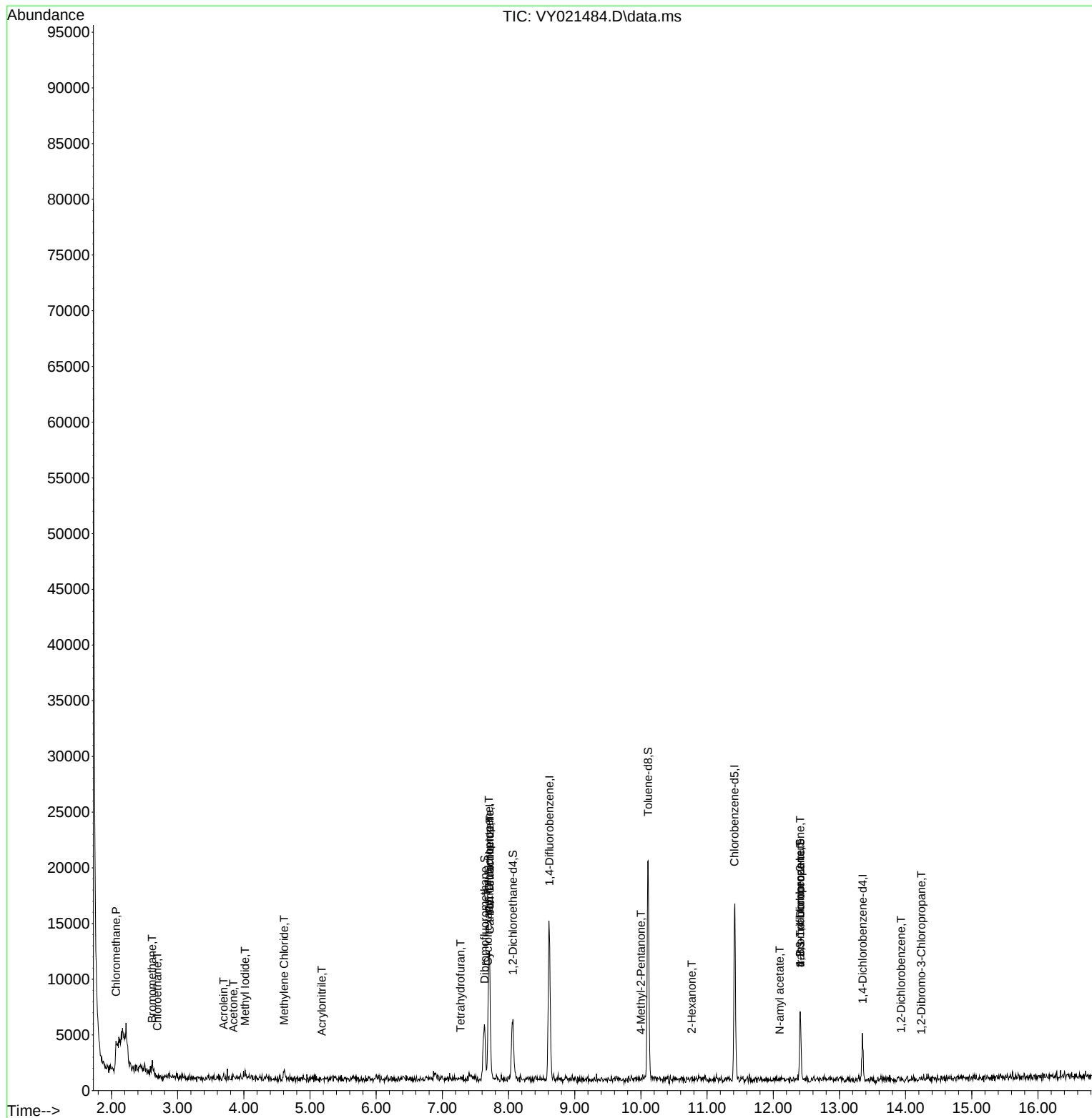
Internal Standards						
1) Pentafluorobenzene	7.713	168	9090	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	11986	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	8198	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	1048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	4814	50.106	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.220%	
35) Dibromofluoromethane	7.640	113	3633	46.112	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 92.220%	
50) Toluene-d8	10.109	98	13153	44.092	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 88.180%	
62) 4-Bromofluorobenzene	12.408	95	1827	18.005	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 36.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	571	4.855	ug/l #	52
5) Bromomethane	2.611	94	627	6.750	ug/l	92
6) Chloroethane	2.690	64	88	1.036	ug/l #	41
10) Methyl Iodide	4.019	142	706	6.781	ug/l #	86
11) Tert butyl alcohol	4.830	59	84	Below Cal	#	72
13) Acrolein	3.696	56	18	3.683	ug/l #	10
15) Acrylonitrile	5.177	53	22	1.040	ug/l #	17
16) Acetone	3.842	43	188	8.972	ug/l #	60
20) Methylene Chloride	4.610	84	218	1.982	ug/l #	51
29) Tetrahydrofuran	7.274	42	31	1.732	ug/l #	33
31) Cyclohexane	7.689	56	185	1.028	ug/l #	42
36) 1,1-Dichloropropene	7.701	75	750	6.082	ug/l #	41
38) Carbon Tetrachloride	7.719	117	897	6.324	ug/l #	12
51) 4-Methyl-2-Pentanone	10.000	43	115	2.106	ug/l #	36
59) 2-Hexanone	10.768	43	72	1.994	ug/l #	24
74) N-amyl acetate	12.097	43	69	3.849	ug/l #	28
76) 1,2,3-Trichloropropane	12.408	75	993	94.029	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	993	213.758	ug/l #	9
91) 1,2-Dichlorobenzene	13.932	146	43	1.305	ug/l #	24
92) 1,2-Dibromo-3-Chloropr...	14.237	75	40	18.330	ug/l #	1

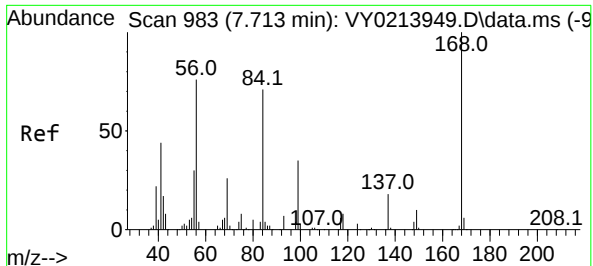
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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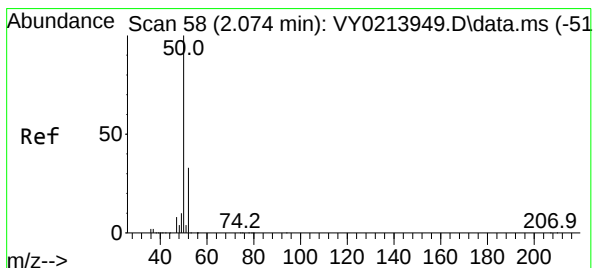
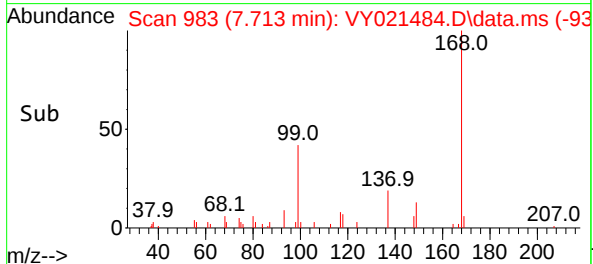
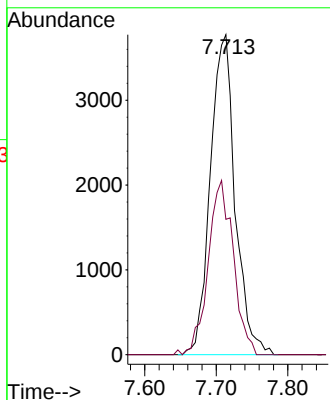
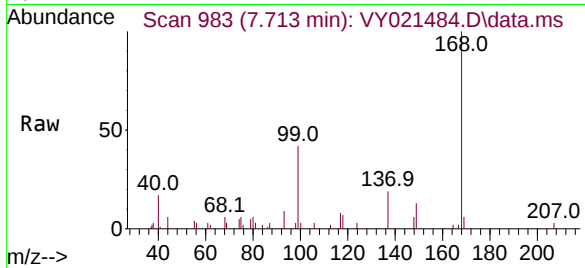




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

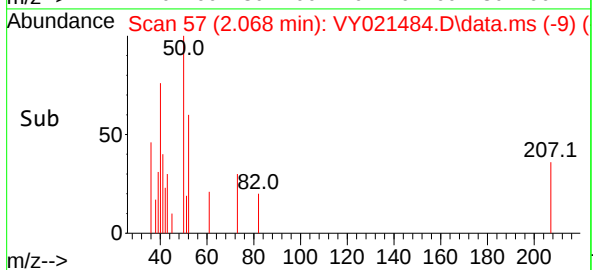
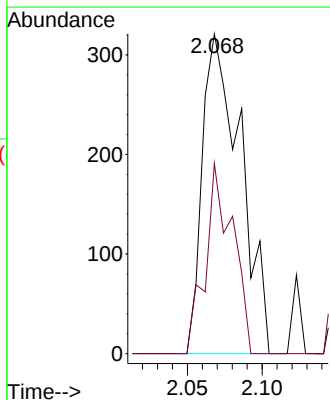
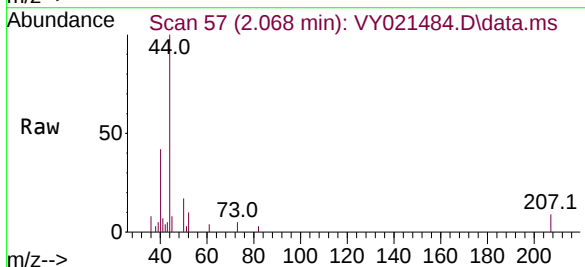
Instrument :
MSVOA_Y
ClientSampleId :

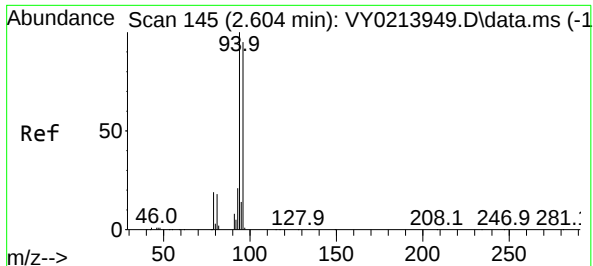
Tgt Ion:168 Resp: 9090
Ion Ratio Lower Upper
168 100
99 42.3 46.0 69.0#



#3
Chloromethane
Concen: 4.855 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 50 Resp: 571
Ion Ratio Lower Upper
50 100
52 59.5 26.2 39.2#

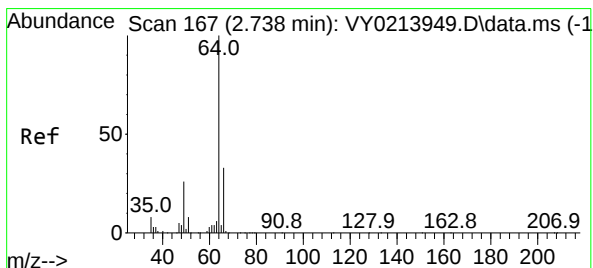
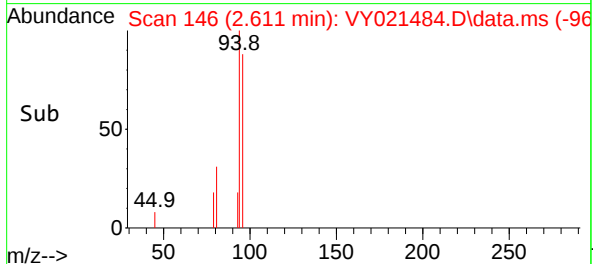
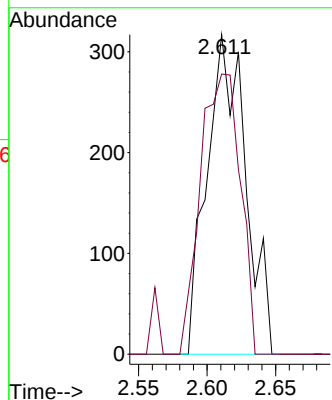
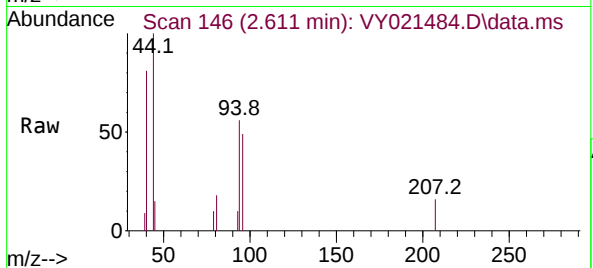




#5
Bromomethane
Concen: 6.750 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

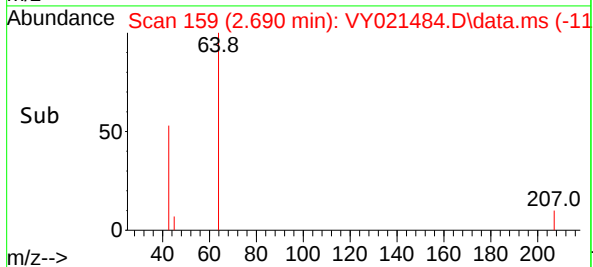
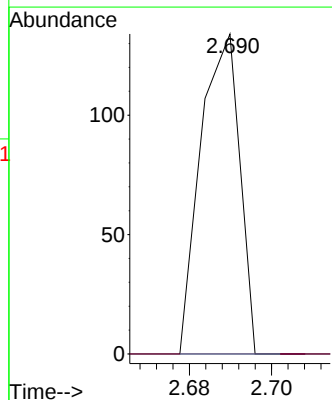
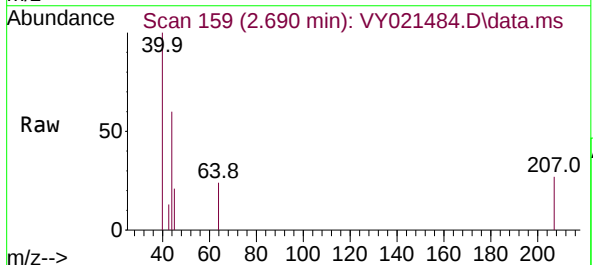
Instrument :
MSVOA_Y
ClientSampleId :

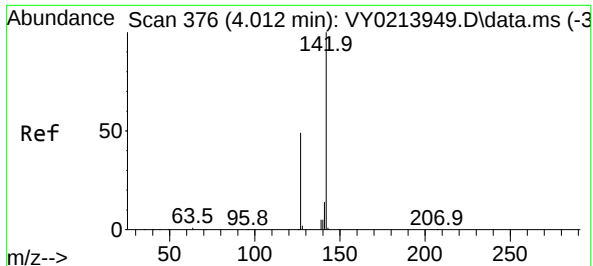
Tgt Ion: 94 Resp: 627
Ion Ratio Lower Upper
94 100
96 87.7 76.3 114.5



#6
Chloroethane
Concen: 1.036 ug/l
RT: 2.690 min Scan# 159
Delta R.T. -0.048 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 64 Resp: 88
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#





#10

Methyl Iodide

Concen: 6.781 ug/l

RT: 4.019 min Scan# 31

Delta R.T. 0.006 min

Lab File: VY021484.D

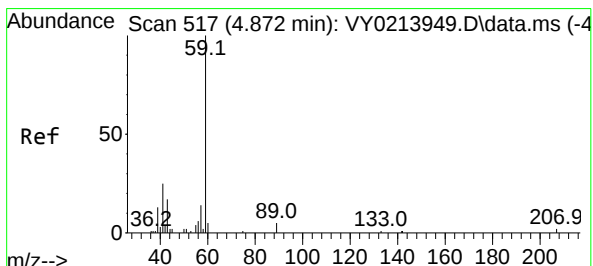
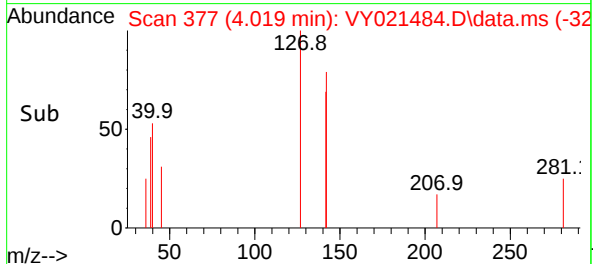
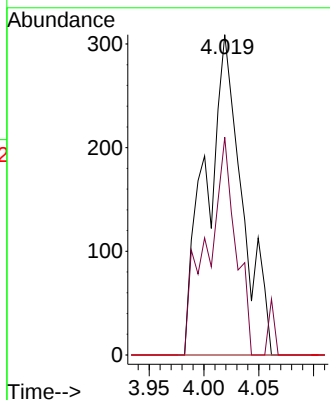
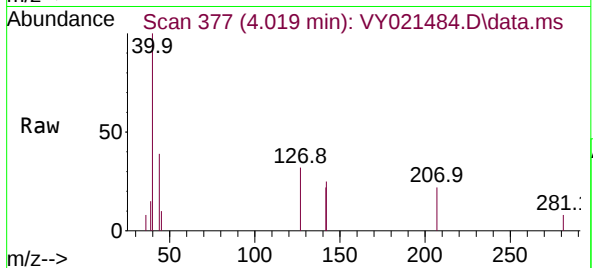
Acq: 11 Mar 2025 14:21

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	142	Resp:	706
Ion	Ratio	Lower	Upper
142	100		
127	54.1	39.1	58.7
141	0.0	11.8	17.6#



#11

Tert butyl alcohol

Concen: Below Cal

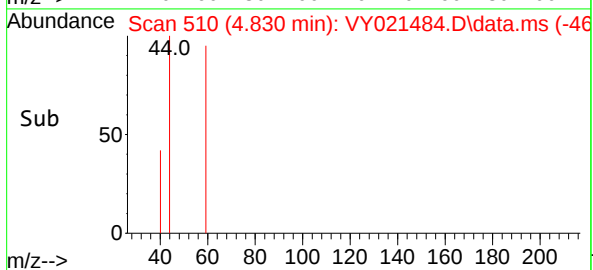
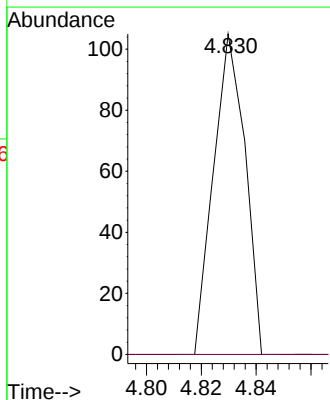
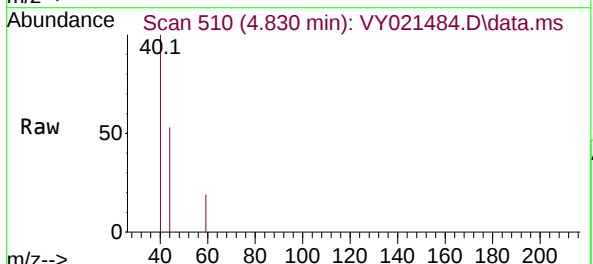
RT: 4.830 min Scan# 510

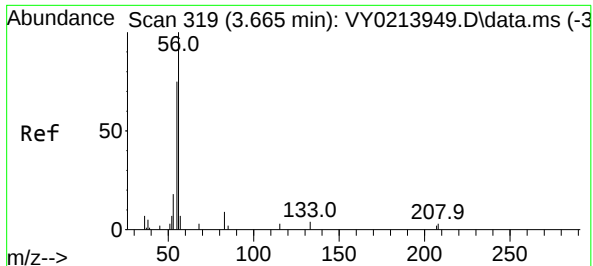
Delta R.T. -0.042 min

Lab File: VY021484.D

Acq: 11 Mar 2025 14:21

Tgt Ion:	59	Resp:	84
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

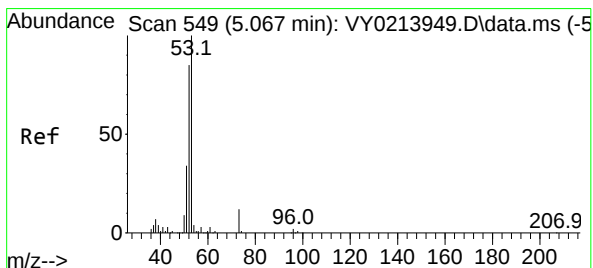
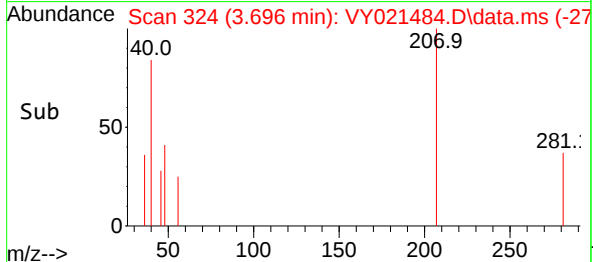
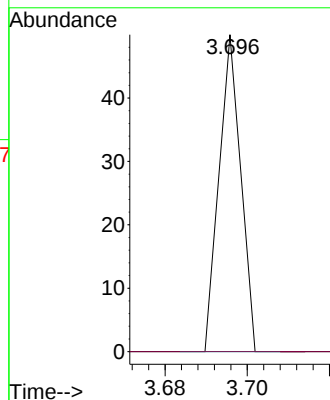
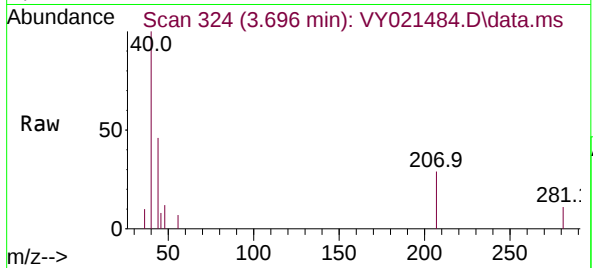




#13
Acrolein
Concen: 3.683 ug/l
RT: 3.696 min Scan# 319
Delta R.T. 0.031 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

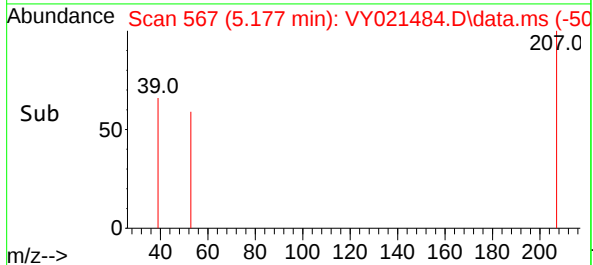
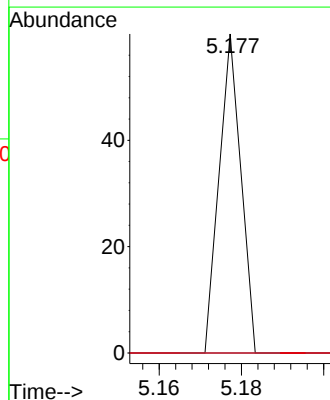
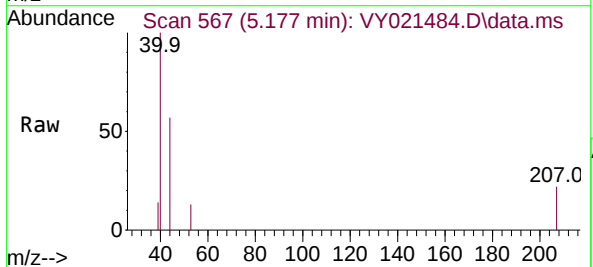
Instrument :
MSVOA_Y
ClientSampleId :

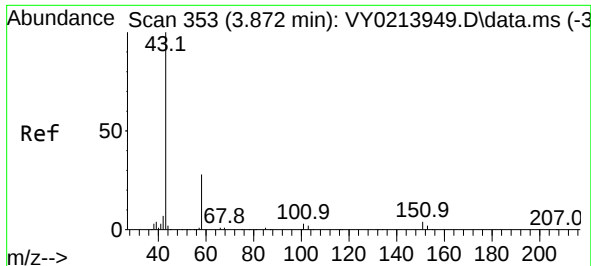
Tgt Ion: 56 Resp: 18
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#



#15
Acrylonitrile
Concen: 1.040 ug/l
RT: 5.177 min Scan# 567
Delta R.T. 0.110 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

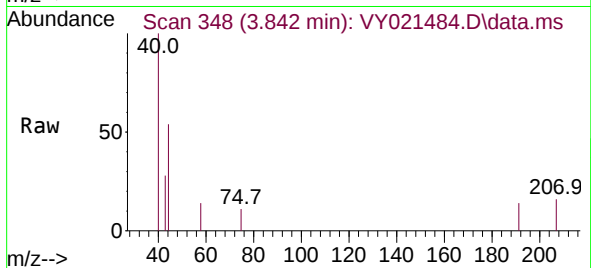
Tgt Ion: 53 Resp: 22
Ion Ratio Lower Upper
53 100
52 0.0 66.3 99.5#
51 0.0 30.3 45.5#



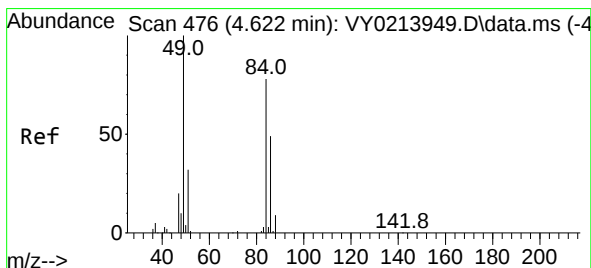
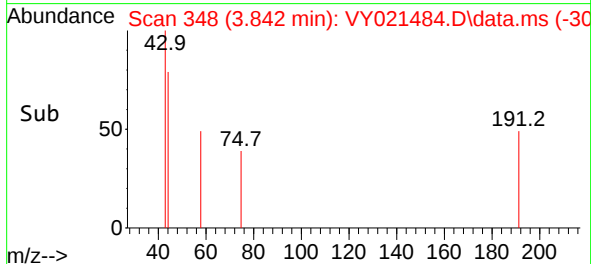
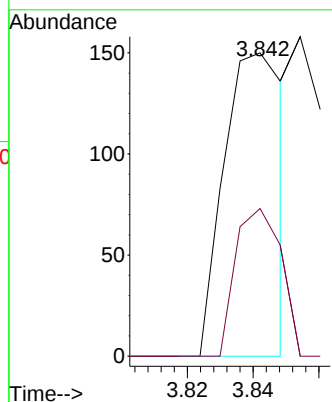


#16
Acetone
Concen: 8.972 ug/l
RT: 3.842 min Scan# 34
Delta R.T. -0.030 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_Y
ClientSampleId :

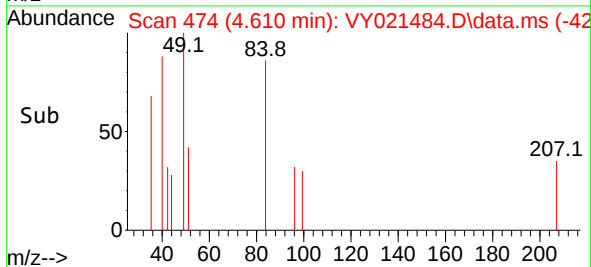
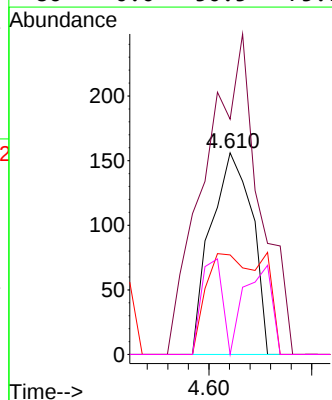
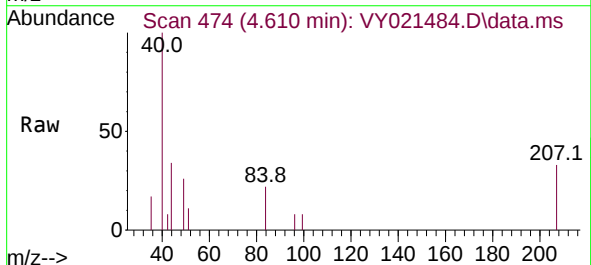


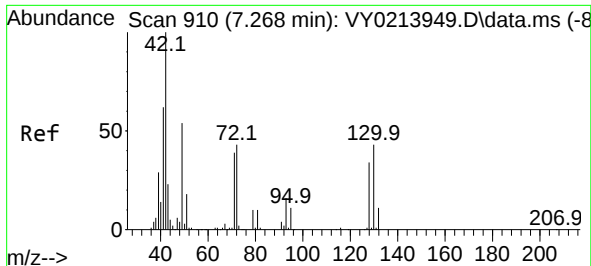
Tgt Ion: 43 Resp: 188
Ion Ratio Lower Upper
43 100
58 48.7 22.1 33.1#



#20
Methylene Chloride
Concen: 1.982 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 84 Resp: 218
Ion Ratio Lower Upper
84 100
49 76.9 102.0 153.0#
51 49.4 33.0 49.6
86 0.0 50.5 75.7#





#29

Tetrahydrofuran

Concen: 1.732 ug/l

RT: 7.274 min Scan# 910

Delta R.T. 0.006 min

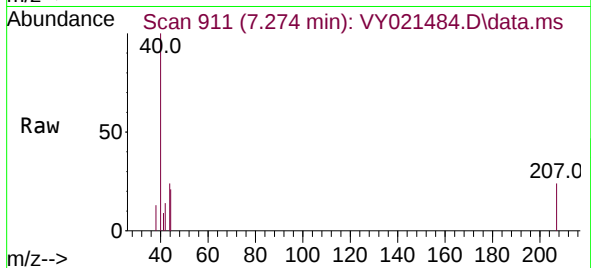
Lab File: VY021484.D

Acq: 11 Mar 2025 14:21

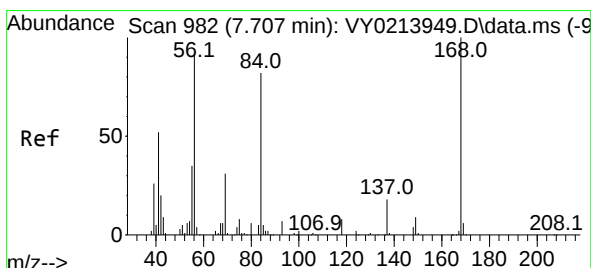
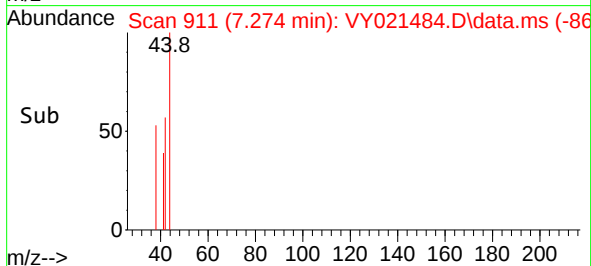
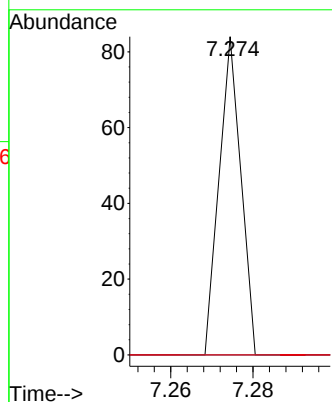
Instrument :

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ClientSampleId :



Tgt Ion:	42	Resp:	31
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.8	52.2#
71	0.0	32.6	48.8#



#31

Cyclohexane

Concen: 1.028 ug/l

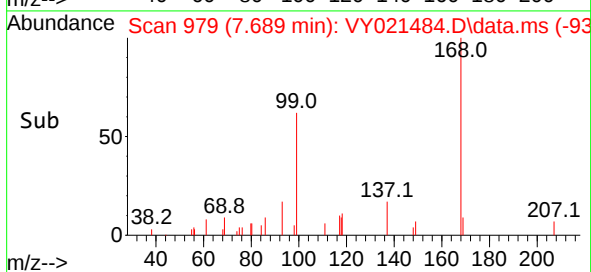
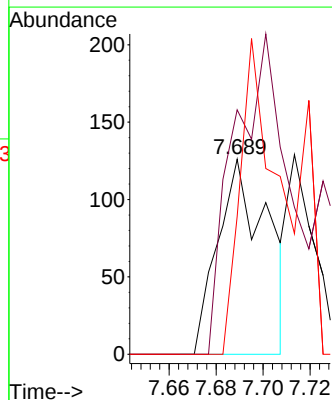
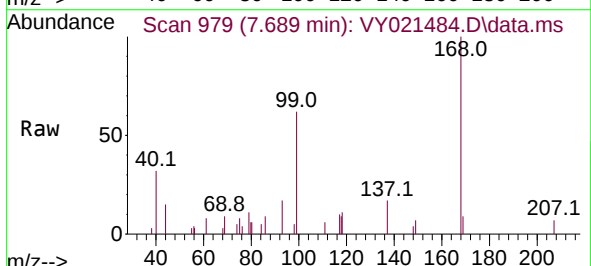
RT: 7.689 min Scan# 979

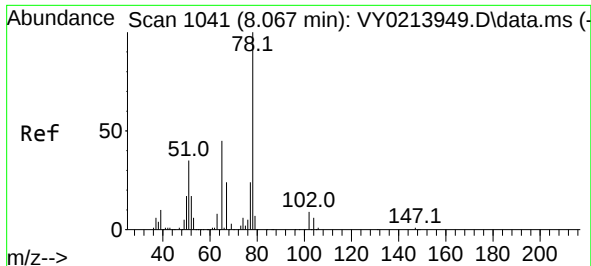
Delta R.T. -0.018 min

Lab File: VY021484.D

Acq: 11 Mar 2025 14:21

Tgt Ion:	56	Resp:	185
Ion	Ratio	Lower	Upper
56	100		
69	125.4	27.0	40.4#
84	70.6	71.1	106.7#





#33

1,2-Dichloroethane-d4

Concen: 50.106 ug/l

RT: 8.067 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY021484.D

Acq: 11 Mar 2025 14:21

Instrument :

MSVOA_Y

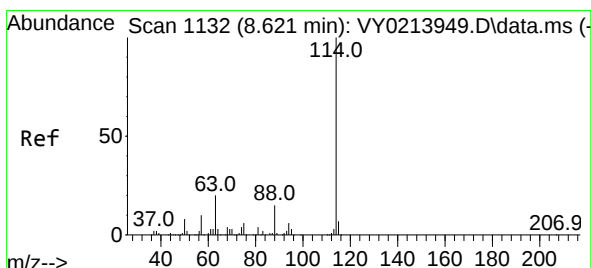
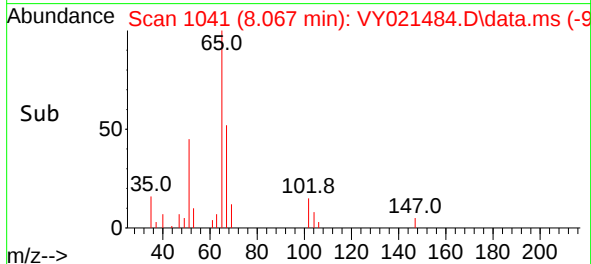
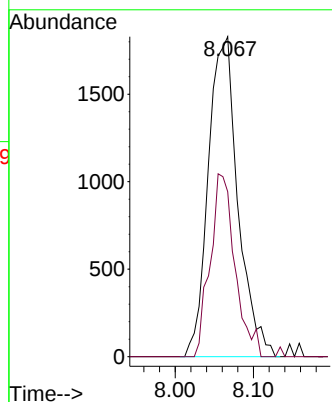
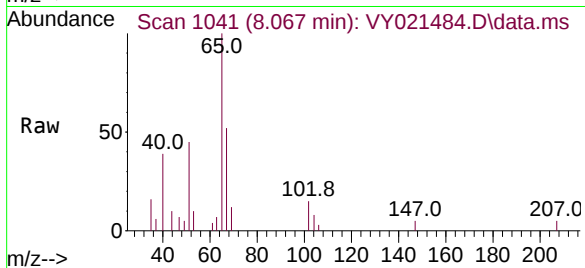
ClientSampleId :

Tgt Ion: 65 Resp: 4814

Ion Ratio Lower Upper

65 100

67 47.7 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021484.D

Acq: 11 Mar 2025 14:21

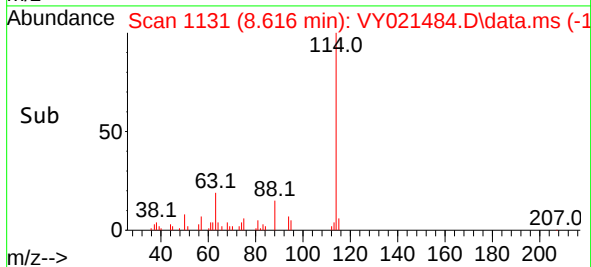
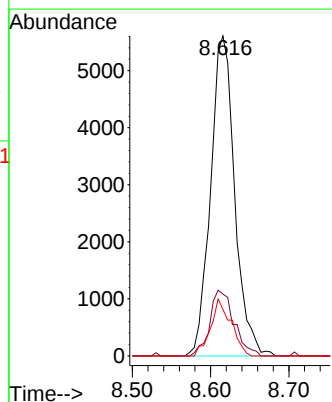
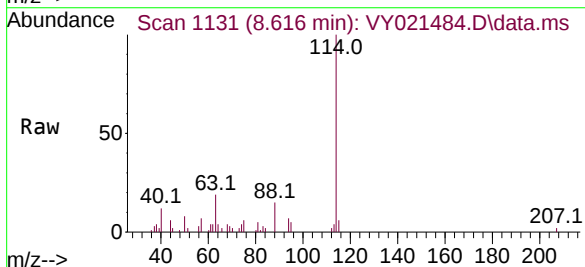
Tgt Ion: 114 Resp: 11986

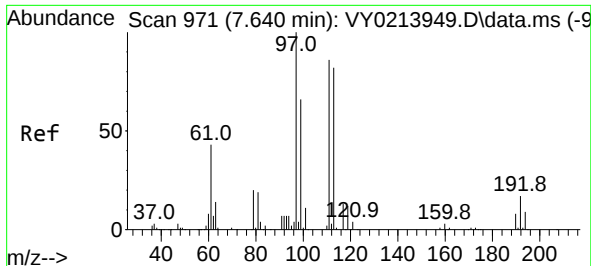
Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

88 14.5 0.0 30.8

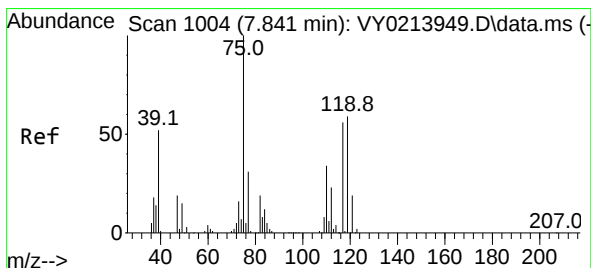
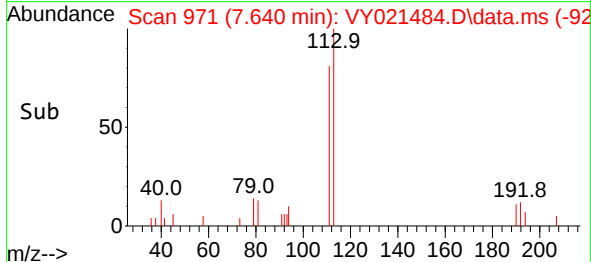
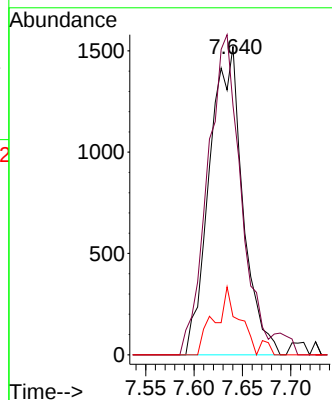
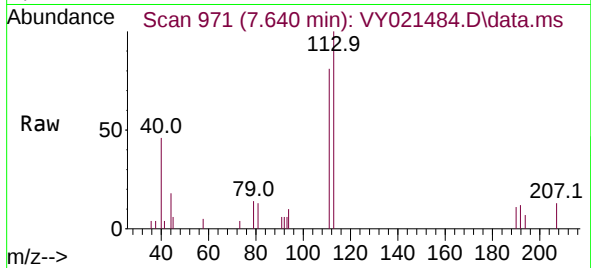




#35
Dibromofluoromethane
Concen: 46.112 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

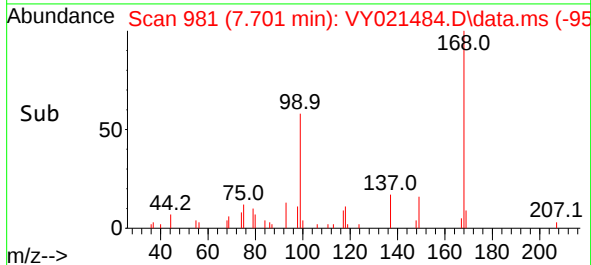
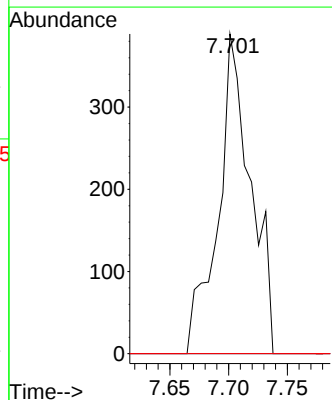
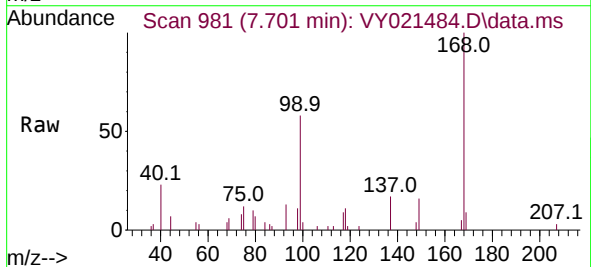
Instrument :
MSVOA_Y
ClientSampleId :

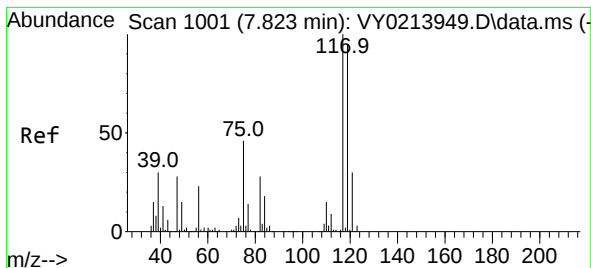
Tgt Ion:113 Resp: 3633
Ion Ratio Lower Upper
113 100
111 104.5 82.0 123.0
192 16.0 15.9 23.9



#36
1,1-Dichloropropene
Concen: 6.082 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 75 Resp: 750
Ion Ratio Lower Upper
75 100
110 0.0 17.3 51.7#
77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 6.324 ug/l

RT: 7.719 min Scan# 91

Delta R.T. -0.103 min

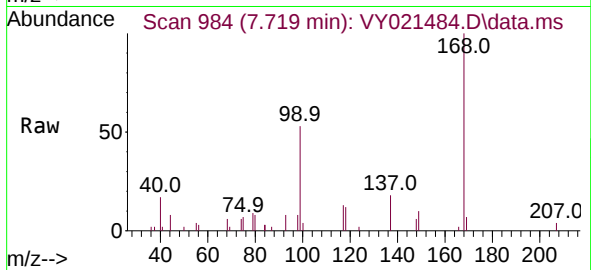
Lab File: VY021484.D

Acq: 11 Mar 2025 14:21

Instrument :

MSVOA_Y

ClientSampleId :



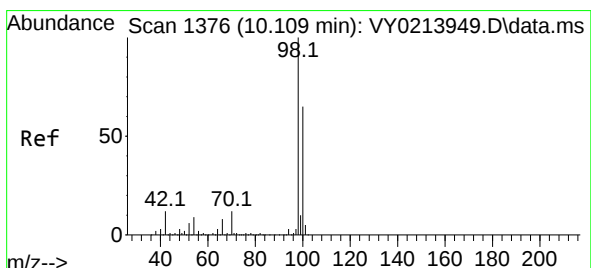
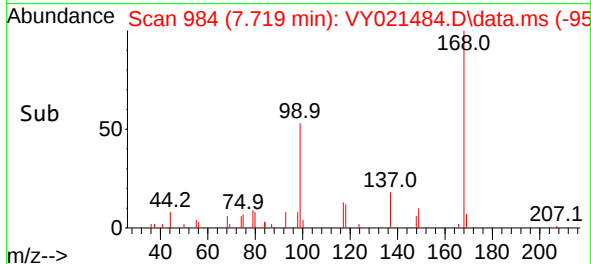
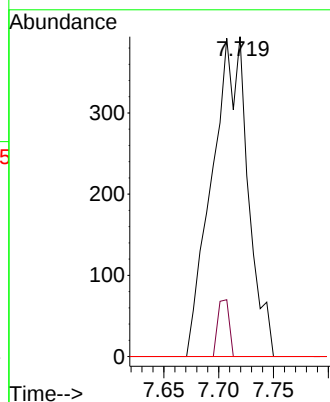
Tgt Ion:117 Resp: 897

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#



#50

Toluene-d8

Concen: 44.092 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021484.D

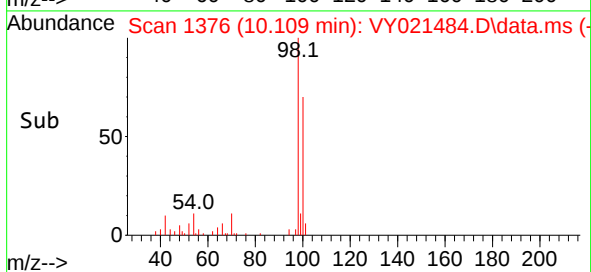
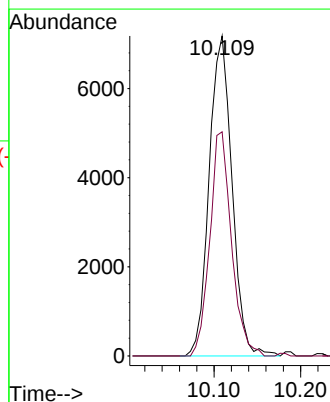
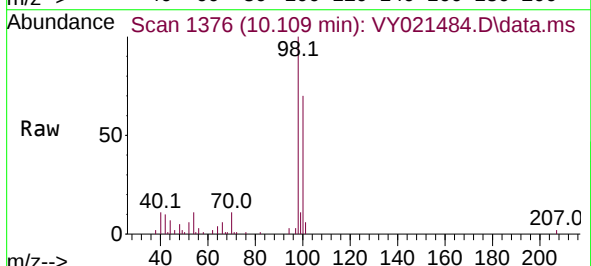
Acq: 11 Mar 2025 14:21

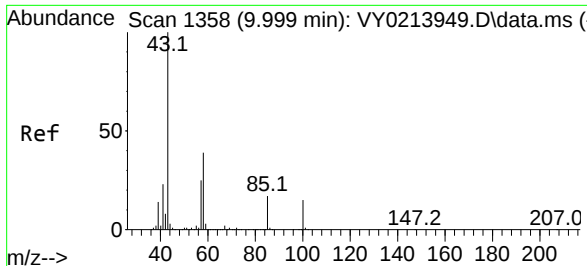
Tgt Ion: 98 Resp: 13153

Ion Ratio Lower Upper

98 100

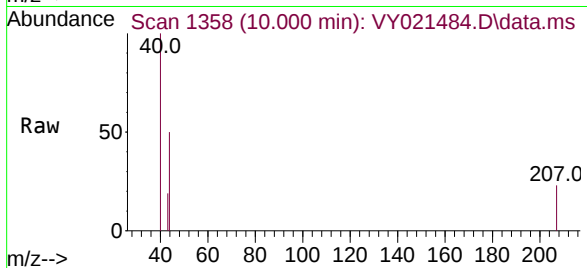
100 66.5 52.1 78.1



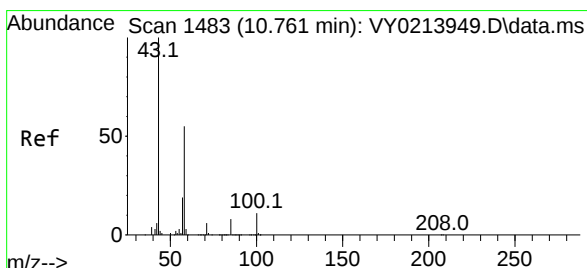
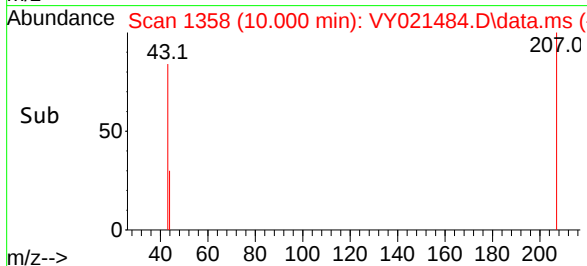
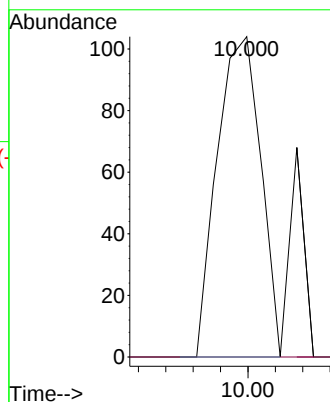


#51
4-Methyl-2-Pentanone
Concen: 2.106 ug/l
RT: 10.000 min Scan# 115
Delta R.T. 0.000 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_Y
ClientSampleId :

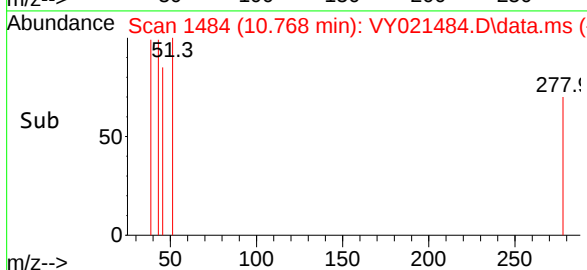
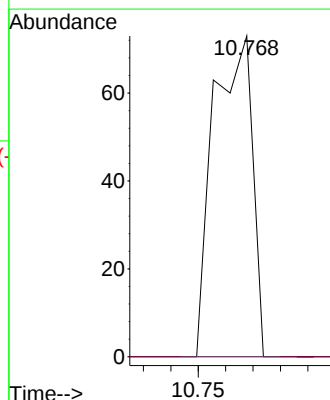
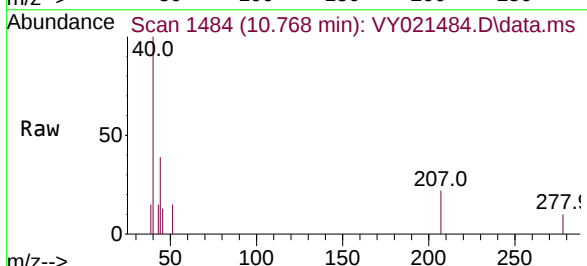


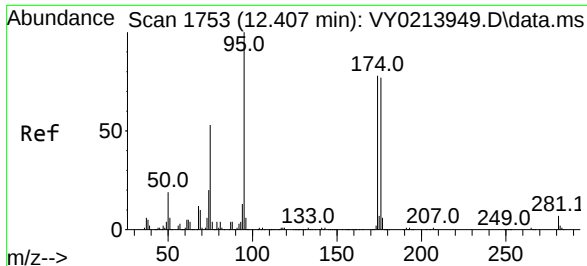
Tgt Ion: 43 Resp: 115
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#59
2-Hexanone
Concen: 1.994 ug/l
RT: 10.768 min Scan# 1484
Delta R.T. 0.006 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#

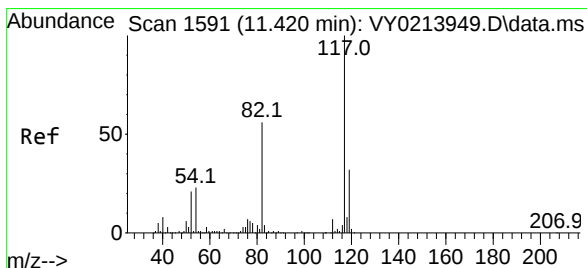
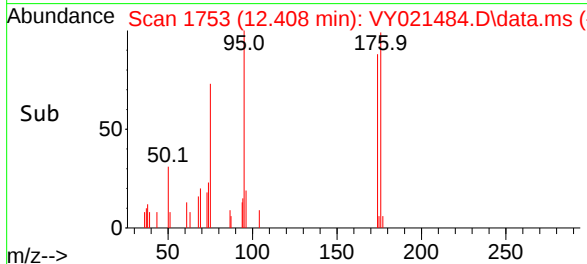
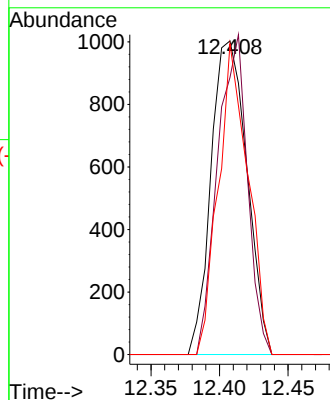
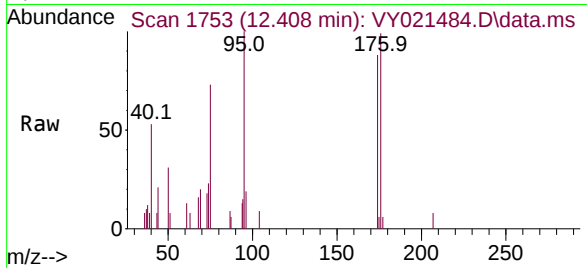




#62
4-Bromofluorobenzene
Concen: 18.005 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

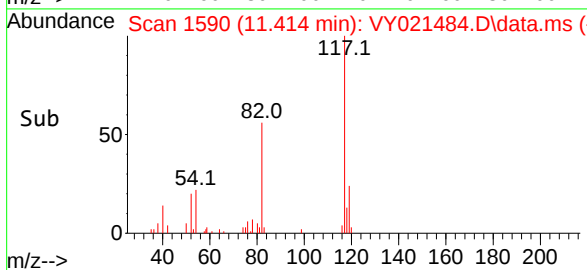
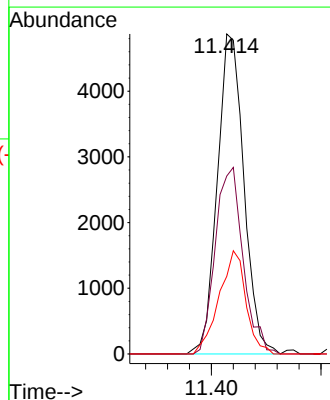
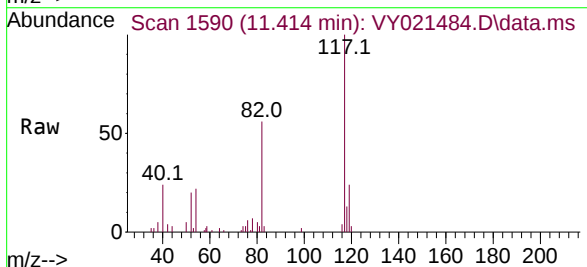
Instrument :
MSVOA_Y
ClientSampleId :

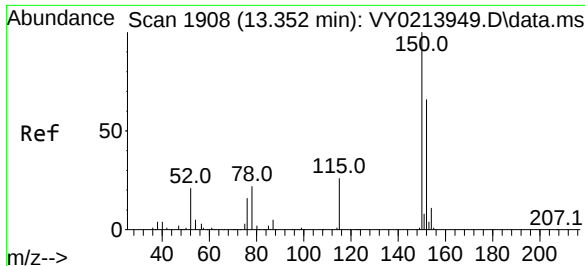
Tgt Ion: 95	Resp: 1827
Ion Ratio	Lower Upper
95 100	
174 84.3	0.0 165.0
176 81.9	0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

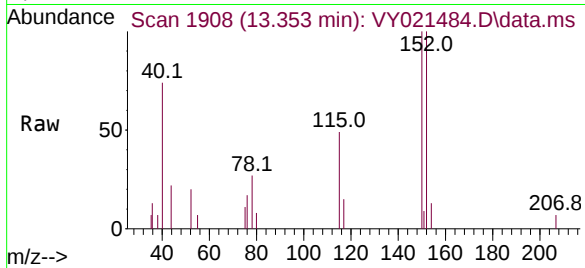
Tgt Ion:117	Resp:	8198	
Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.6	67.0
119	24.3	25.4	38.0#



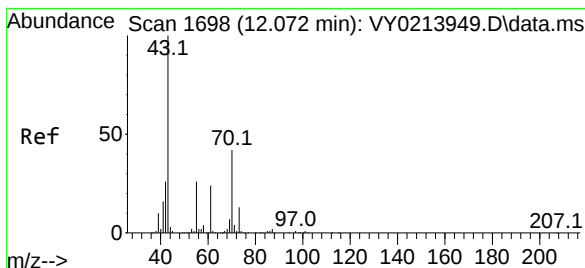
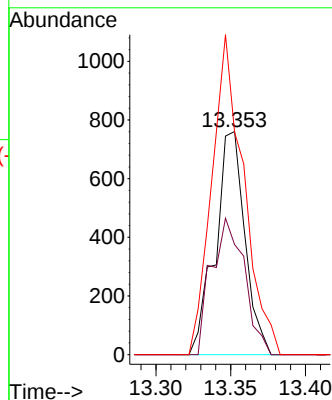
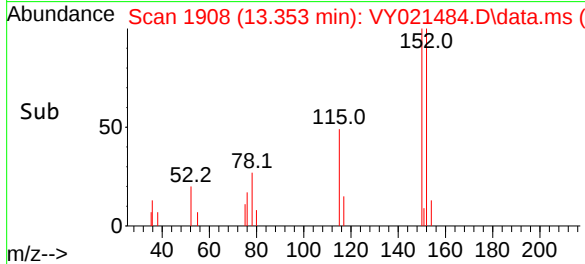


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.353 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VY021484.D
 Acq: 11 Mar 2025 14:21

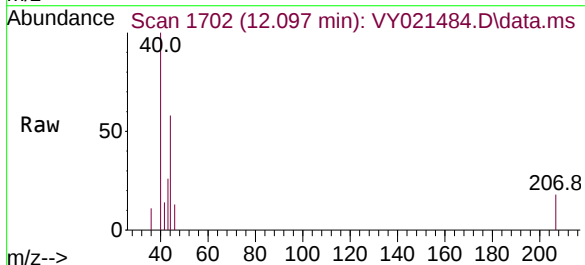
Instrument :
 MSVOA_Y
 ClientSampleId :



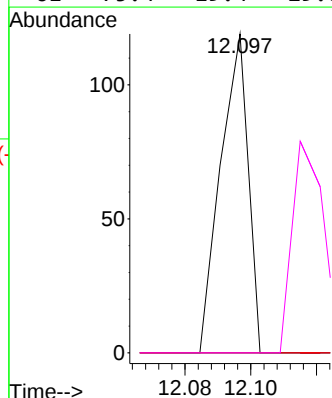
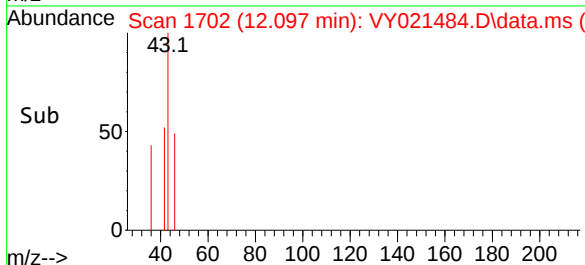
Tgt Ion:152 Resp: 1048
 Ion Ratio Lower Upper
 152 100
 115 67.7 29.0 87.0
 150 153.5 0.0 347.2

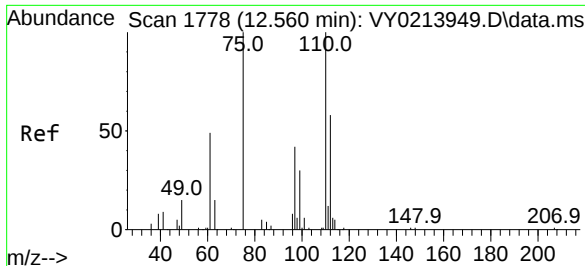


#74
 N-ethyl acetate
 Concen: 3.849 ug/l
 RT: 12.097 min Scan# 1702
 Delta R.T. 0.025 min
 Lab File: VY021484.D
 Acq: 11 Mar 2025 14:21



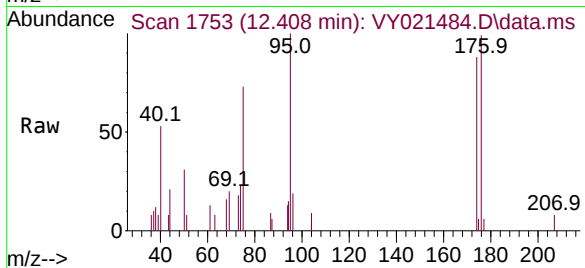
Tgt Ion: 43 Resp: 69
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.6 51.8#
 55 0.0 21.1 31.7#
 61 75.4 19.4 29.0#



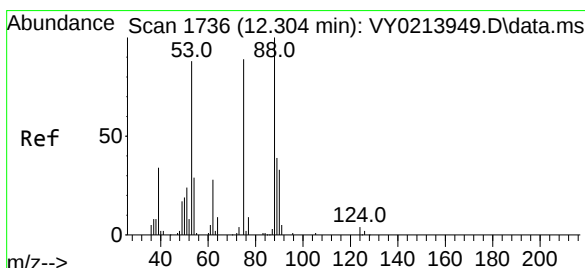
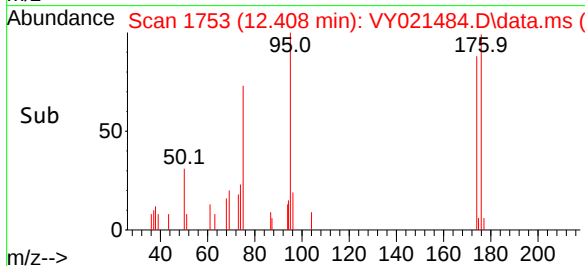
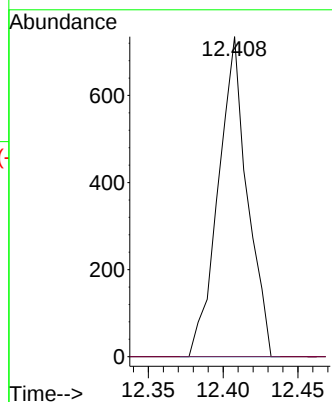


#76
 1,2,3-Trichloropropane
 Concen: 94.029 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021484.D
 Acq: 11 Mar 2025 14:21

Instrument :
 MSVOA_Y
 ClientSampleId :

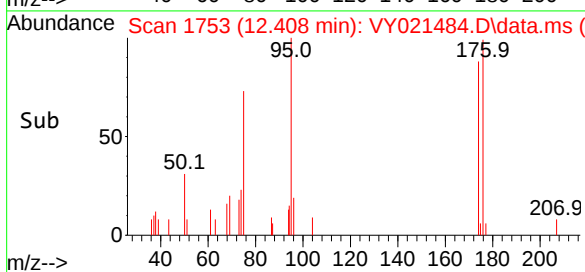
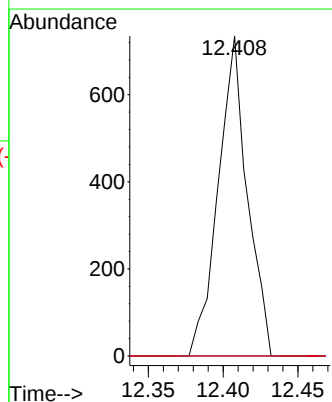
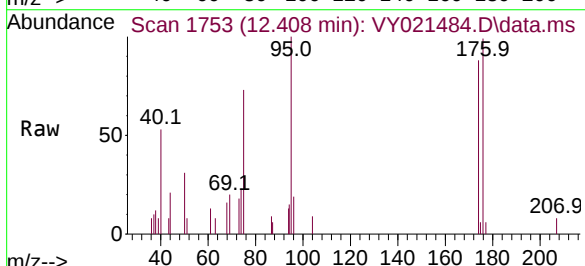


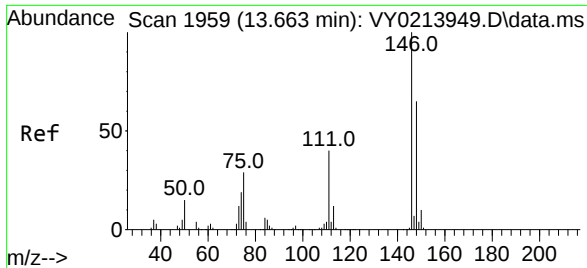
Tgt Ion: 75 Resp: 993
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 213.758 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY021484.D
 Acq: 11 Mar 2025 14:21

Tgt Ion: 75 Resp: 993
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.9 55.3#

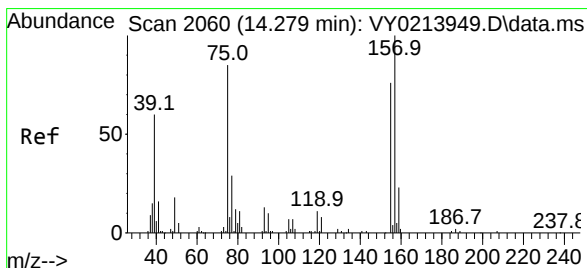
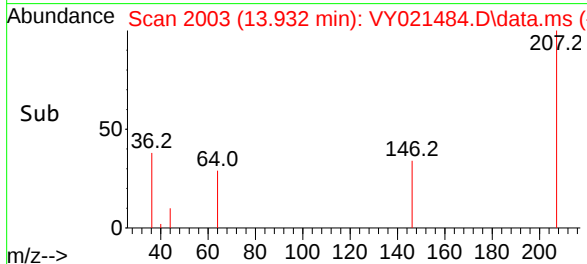
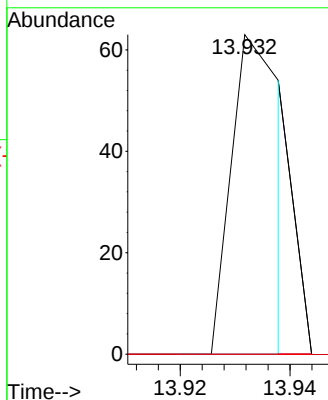
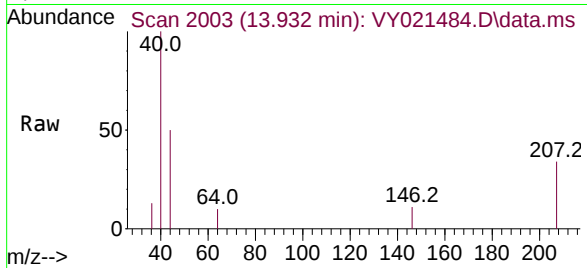




#91
1,2-Dichlorobenzene
Concen: 1.305 ug/l
RT: 13.932 min Scan# 2053
Delta R.T. 0.269 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:146 Resp: 43
Ion Ratio Lower Upper
146 100
111 0.0 20.7 62.1#
148 0.0 32.1 96.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.330 ug/l
RT: 14.237 min Scan# 2053
Delta R.T. -0.042 min
Lab File: VY021484.D
Acq: 11 Mar 2025 14:21

Tgt Ion: 75 Resp: 40
Ion Ratio Lower Upper
75 100
155 0.0 43.5 130.5#
157 0.0 54.4 163.2#

