

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031325\
 Data File : VY021521.D
 Acq On : 13 Mar 2025 13:34
 Operator : SY/MD
 Sample : Q1553-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT2321

Quant Time: Mar 14 14:56:08 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)

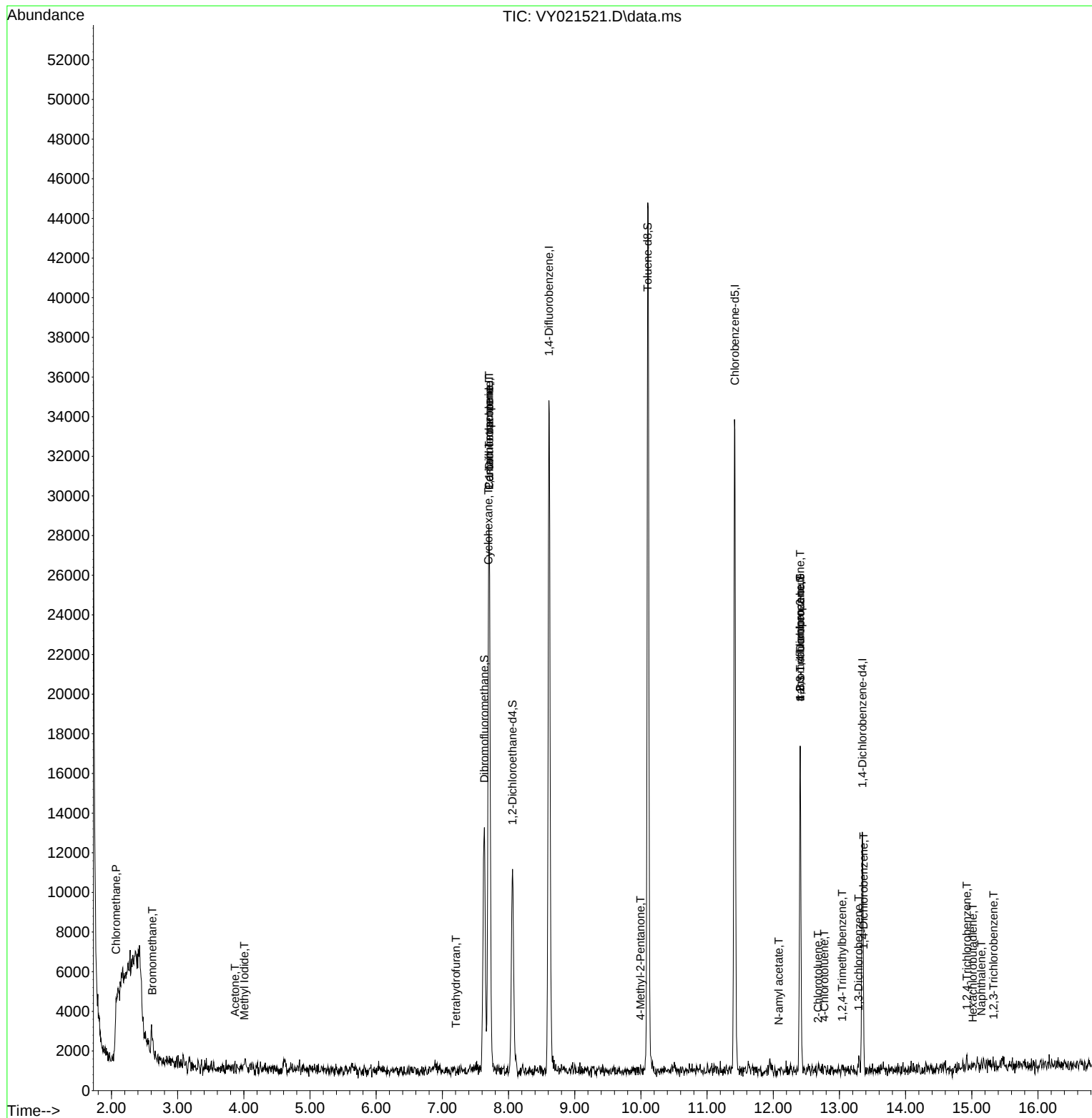
Internal Standards						
1) Pentafluorobenzene	7.707	168	20986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	27808	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.420	117	17230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	2901	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	8408	37.906	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	75.820%
35) Dibromofluoromethane	7.634	113	8870	48.527	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.060%
50) Toluene-d8	10.103	98	29161	42.135	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.260%
62) 4-Bromofluorobenzene	12.408	95	4680	19.879	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	39.760%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	650	2.394	ug/l	100
5) Bromomethane	2.617	94	595	2.775	ug/l	94
10) Methyl Iodide	4.007	142	967	4.023	ug/l #	72
11) Tert butyl alcohol	4.848	59	100	Below Cal	#	72
16) Acetone	3.867	43	216	4.465	ug/l #	47
29) Tetrahydrofuran	7.207	42	49	1.186	ug/l #	33
31) Cyclohexane	7.695	56	755	1.817	ug/l #	47
36) 1,1-Dichloropropene	7.707	75	2041	7.133	ug/l #	43
38) Carbon Tetrachloride	7.707	117	2585	7.856	ug/l #	18
51) 4-Methyl-2-Pentanone	9.993	43	133	1.050	ug/l #	36
74) N-amyl acetate	12.085	43	87	1.753	ug/l #	56
76) 1,2,3-Trichloropropane	12.408	75	2674	91.472	ug/l #	100
79) 2-Chlorotoluene	12.676	91	168	1.059	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.408	75	2674	207.945	ug/l #	9
82) 4-Chlorotoluene	12.774	91	219	1.333	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.042	105	216	1.171	ug/l #	31
87) 1,3-Dichlorobenzene	13.292	146	152	1.428	ug/l #	68
88) 1,4-Dichlorobenzene	13.365	146	191	1.835	ug/l #	53
93) 1,2,4-Trichlorobenzene	14.926	180	192	3.854	ug/l #	13
94) Hexachlorobutadiene	15.017	225	77	2.466	ug/l #	19
95) Naphthalene	15.145	128	333	5.653	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.328	180	110	2.625	ug/l #	18

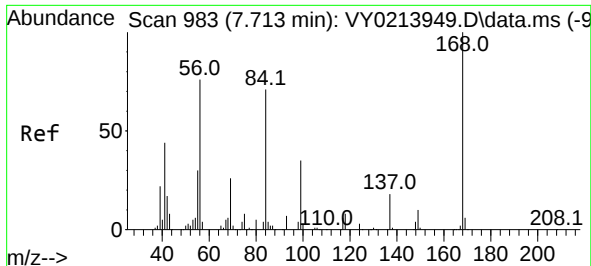
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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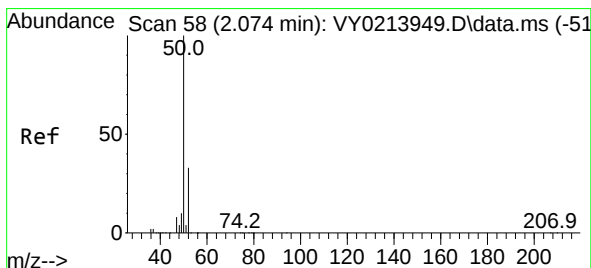
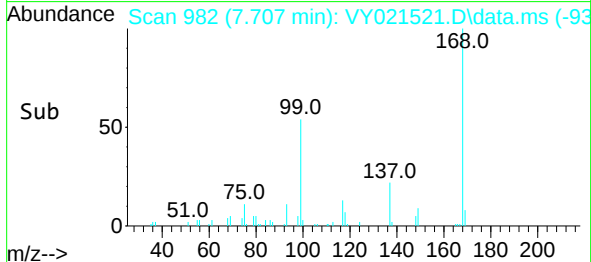
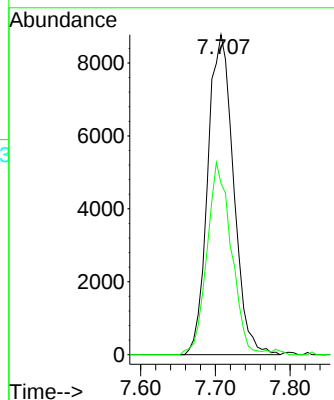
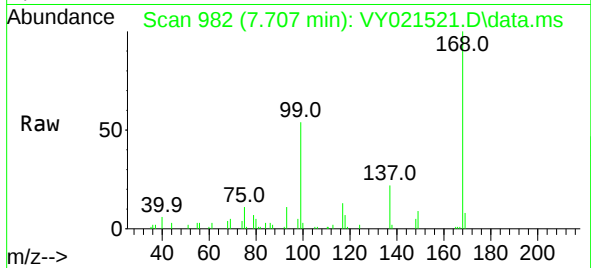




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

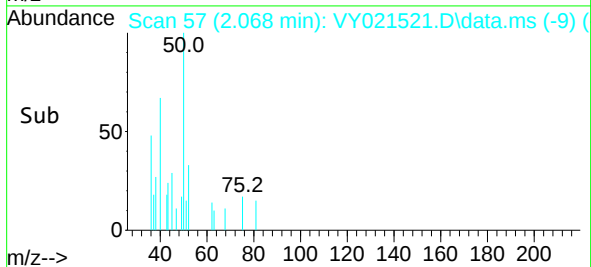
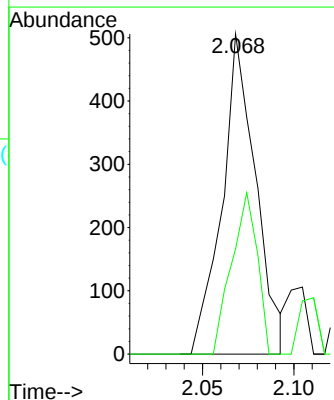
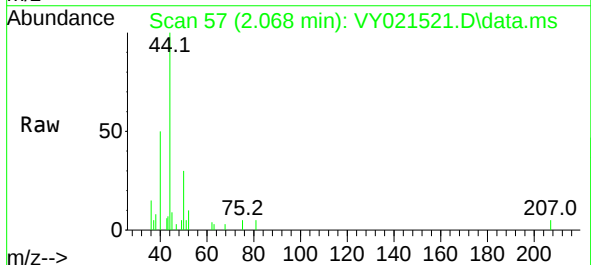
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

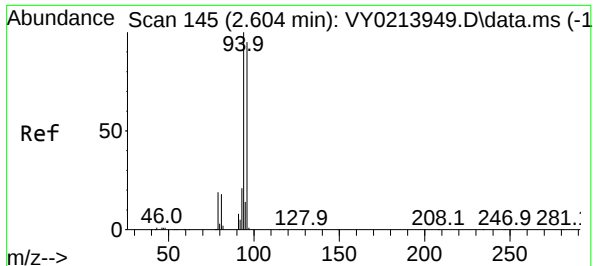
Tgt Ion:168 Resp: 20986
Ion Ratio Lower Upper
168 100
99 53.5 46.0 69.0



#3
Chloromethane
Concen: 2.394 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 50 Resp: 650
Ion Ratio Lower Upper
50 100
52 32.8 26.2 39.2

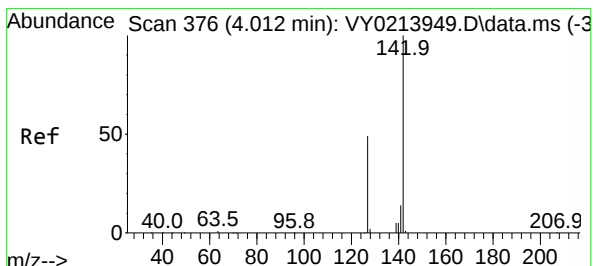
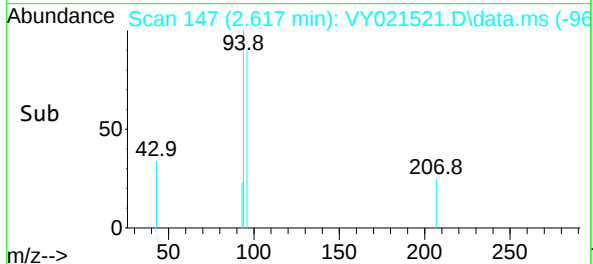
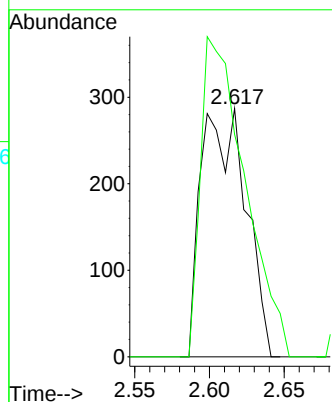
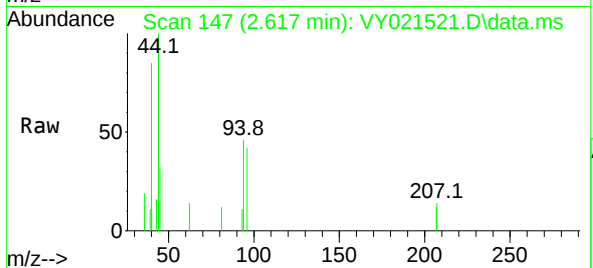




#5
Bromomethane
Concen: 2.775 ug/l
RT: 2.617 min Scan# 145
Delta R.T. 0.013 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

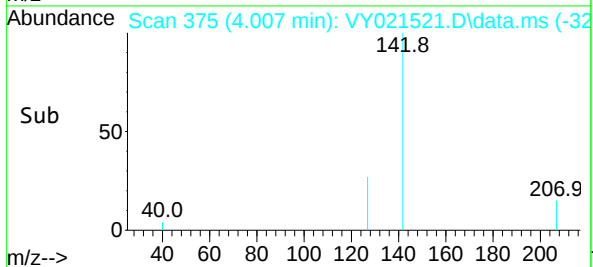
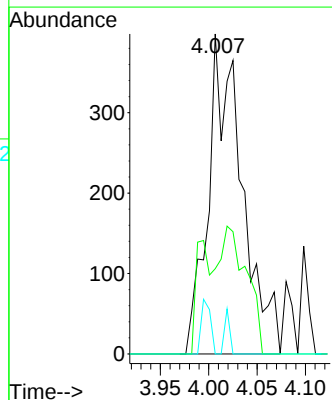
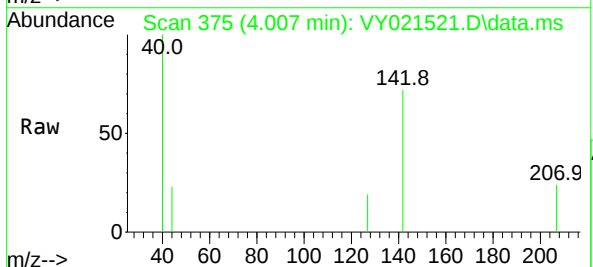
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

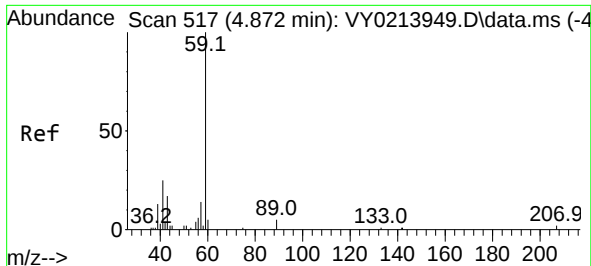
Tgt Ion: 94 Resp: 595
Ion Ratio Lower Upper
94 100
96 89.5 76.3 114.5



#10
Methyl Iodide
Concen: 4.023 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 142 Resp: 967
Ion Ratio Lower Upper
142 100
127 30.6 39.1 58.7#
141 2.1 11.8 17.6#

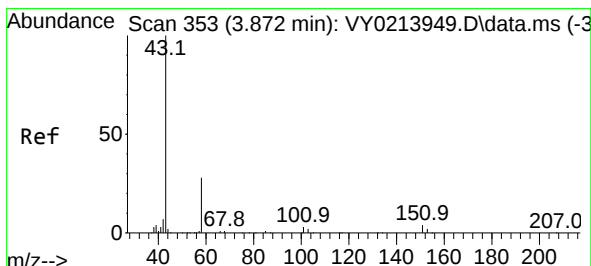
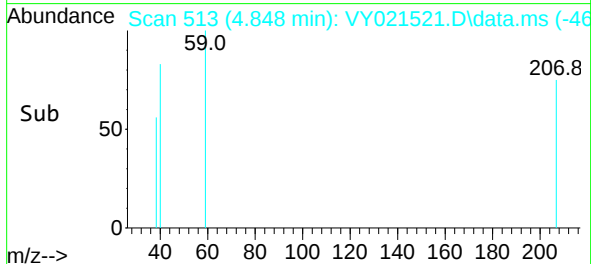
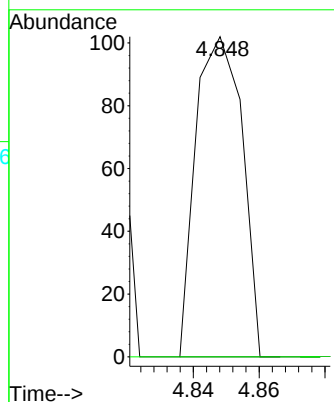
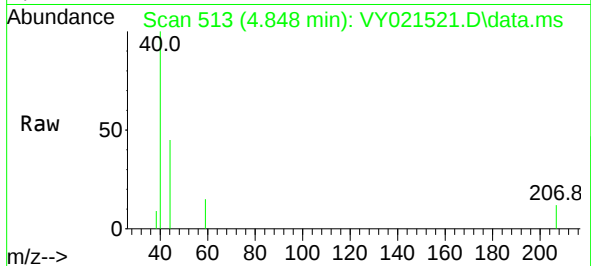




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.848 min Scan# 51
Delta R.T. -0.024 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

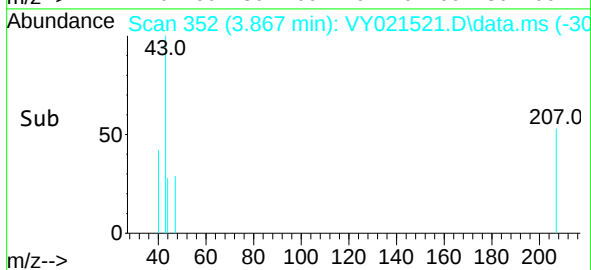
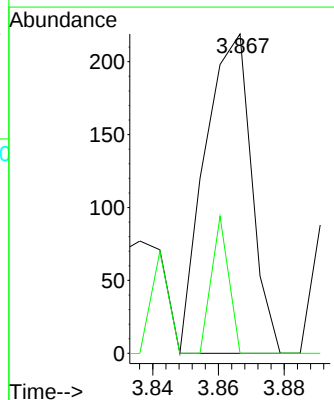
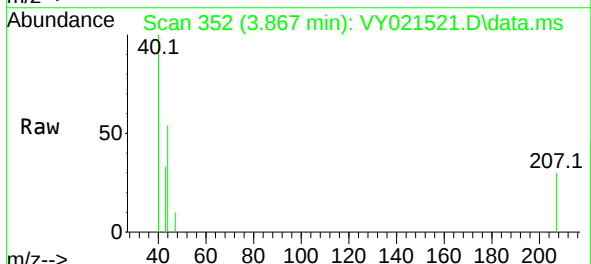
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

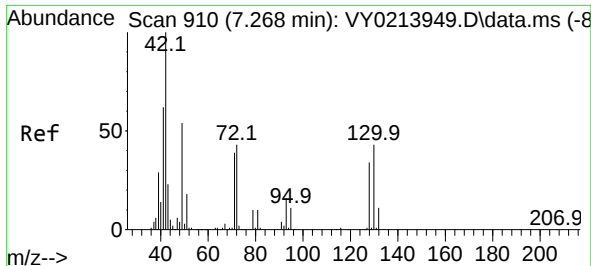
Tgt Ion: 59 Resp: 100
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 4.465 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.005 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#29

Tetrahydrofuran

Concen: 1.186 ug/l

RT: 7.207 min Scan# 90

Delta R.T. -0.061 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

Instrument :

MSVOA_Y

ClientSampleId :

RT2321

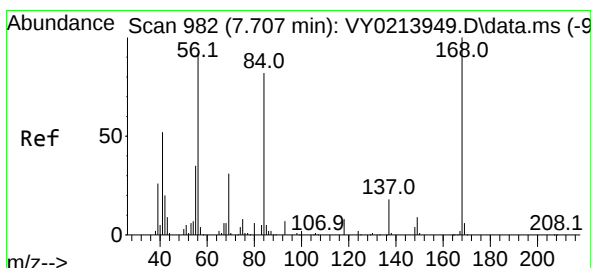
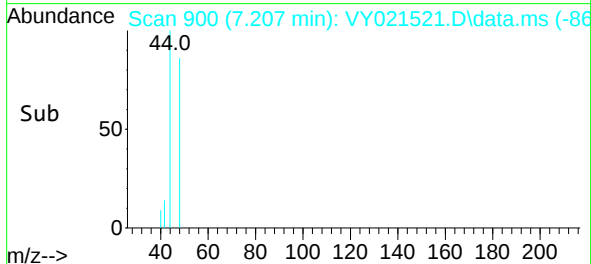
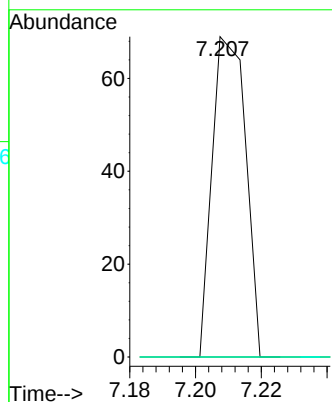
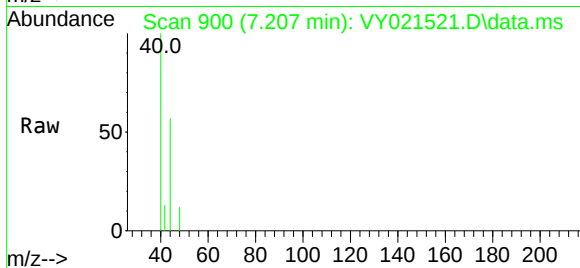
Tgt Ion: 42 Resp: 49

Ion Ratio Lower Upper

42 100

72 0.0 34.8 52.2#

71 0.0 32.6 48.8#



#31

Cyclohexane

Concen: 1.817 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.012 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

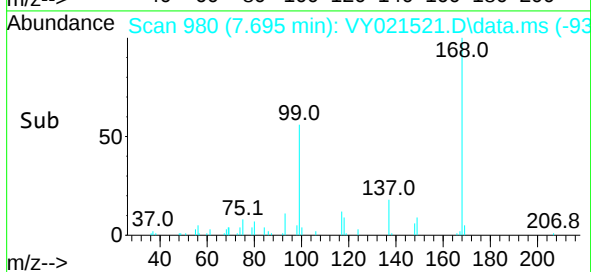
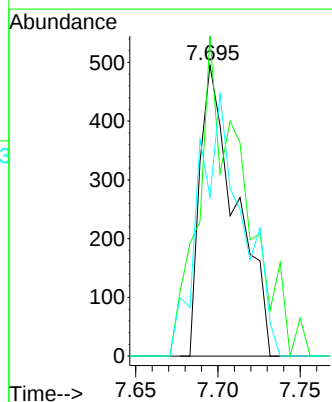
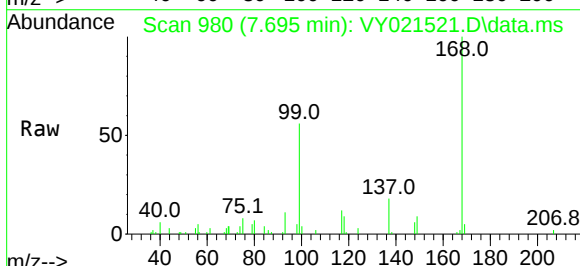
Tgt Ion: 56 Resp: 755

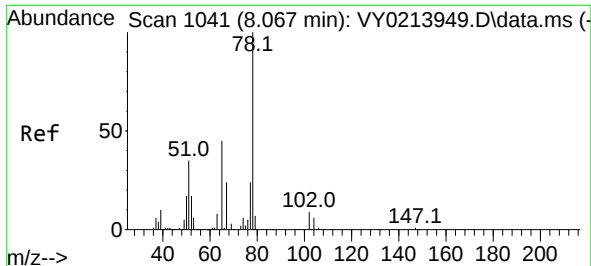
Ion Ratio Lower Upper

56 100

69 88.3 27.0 40.4#

84 54.7 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 37.906 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

Instrument :

MSVOA_Y

ClientSampleId :

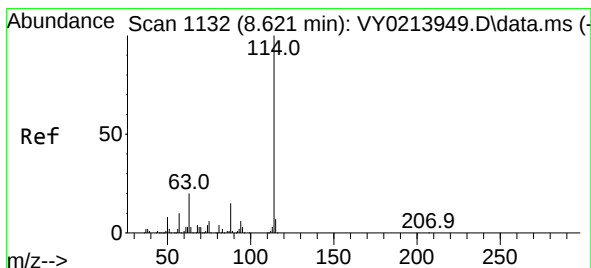
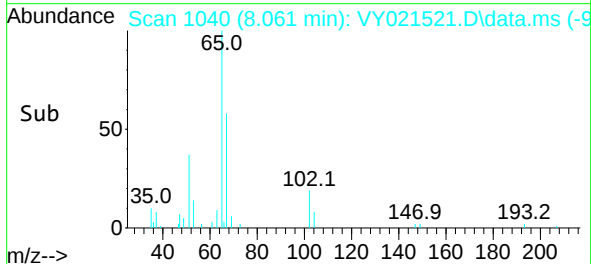
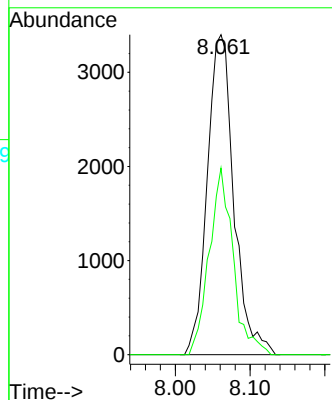
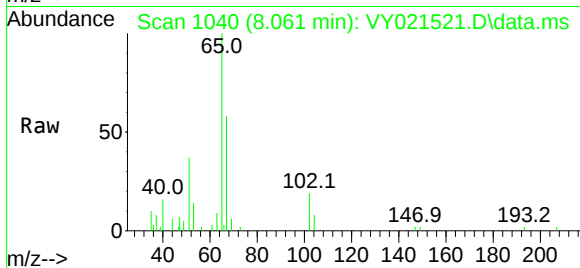
RT2321

Tgt Ion: 65 Resp: 8408

Ion Ratio Lower Upper

65 100

67 52.6 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.012 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

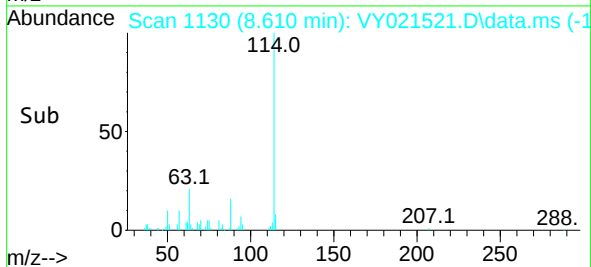
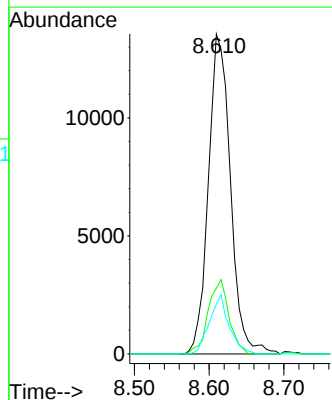
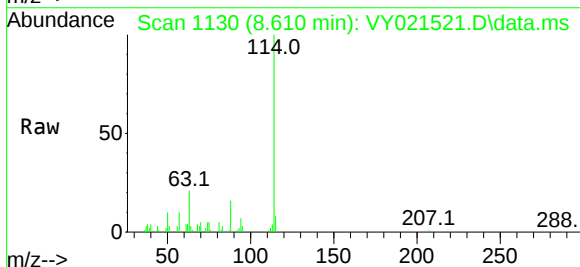
Tgt Ion: 114 Resp: 27808

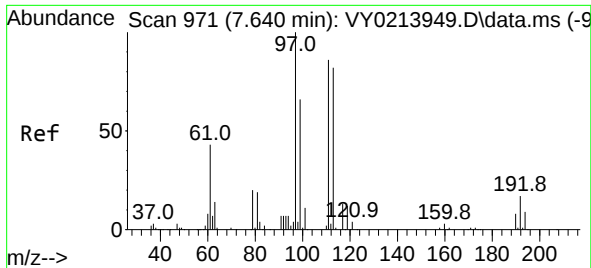
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 15.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 48.527 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

Instrument :

MSVOA_Y

ClientSampleId :

RT2321

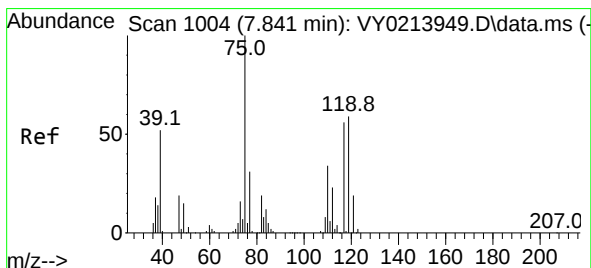
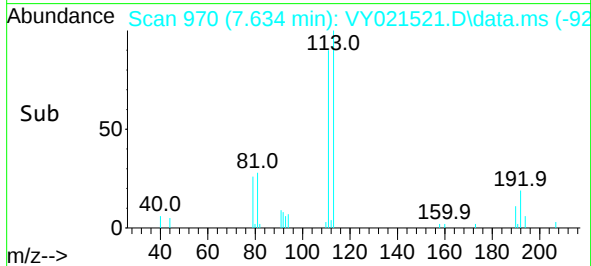
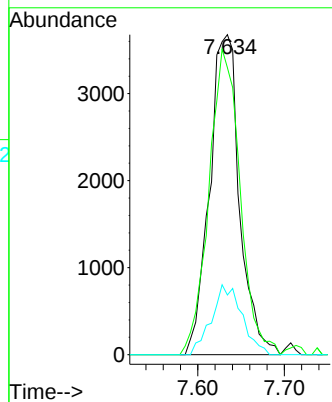
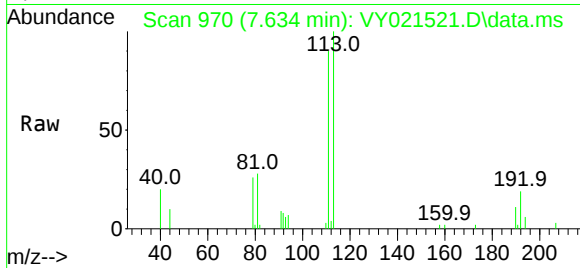
Tgt Ion:113 Resp: 8870

Ion Ratio Lower Upper

113 100

111 99.1 82.0 123.0

192 22.2 15.9 23.9



#36

1,1-Dichloropropene

Concen: 7.133 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

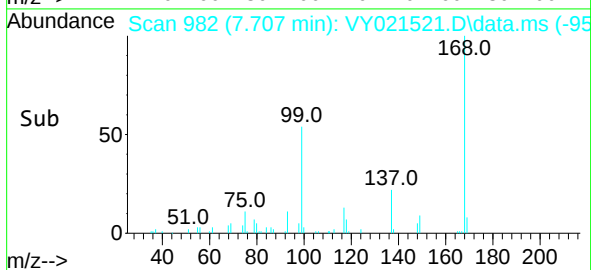
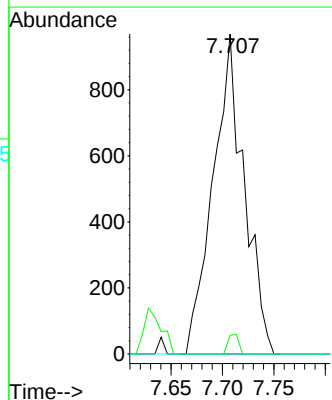
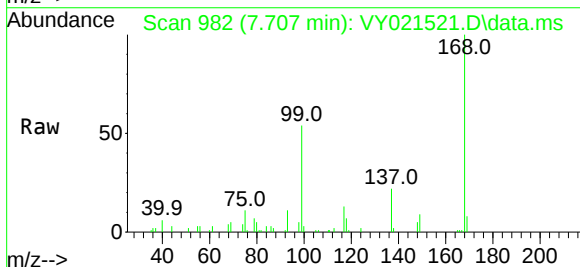
Tgt Ion: 75 Resp: 2041

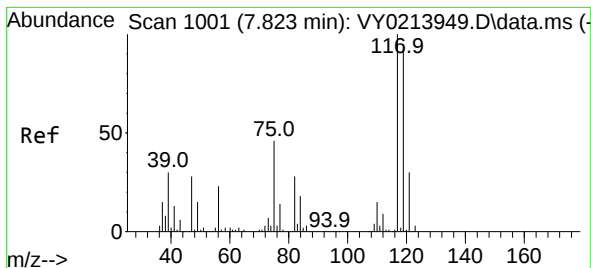
Ion Ratio Lower Upper

75 100

110 2.1 17.3 51.7#

77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 7.856 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.115 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

Instrument :

MSVOA_Y

ClientSampleId :

RT2321

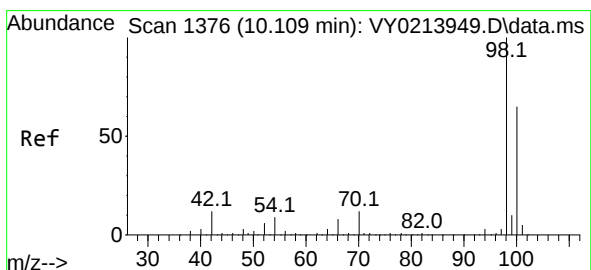
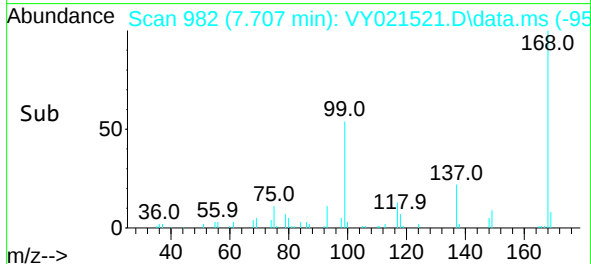
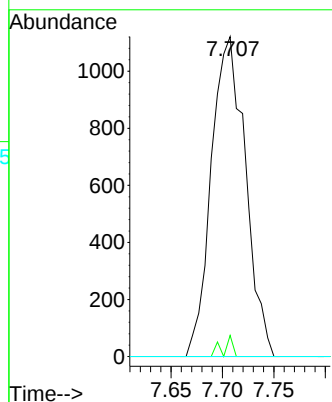
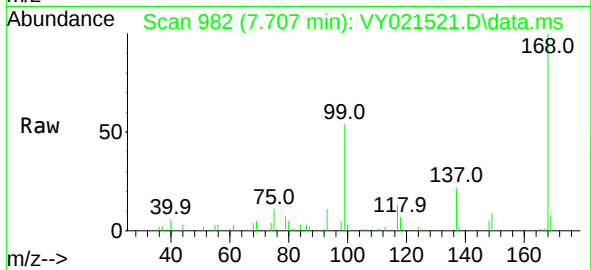
Tgt Ion:117 Resp: 2585

Ion Ratio Lower Upper

117 100

119 6.6 75.8 113.8#

121 0.0 23.9 35.9#



#50

Toluene-d8

Concen: 42.135 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY021521.D

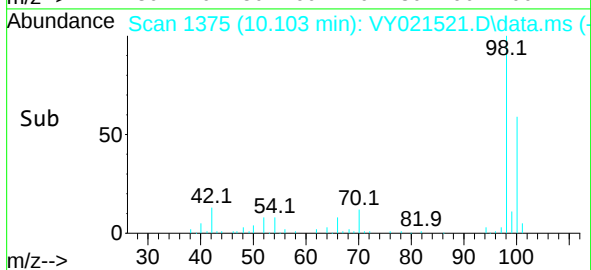
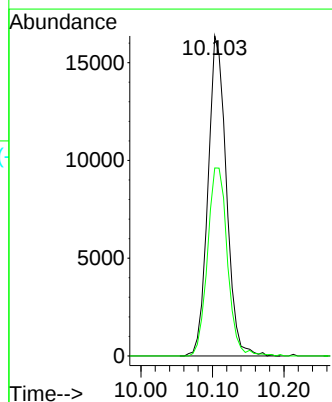
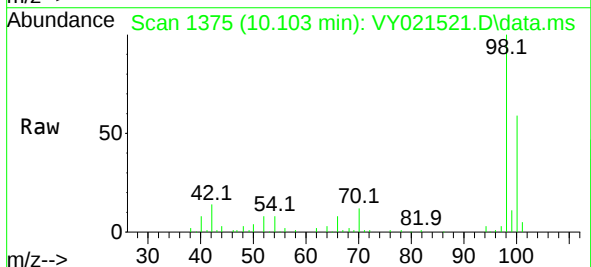
Acq: 13 Mar 2025 13:34

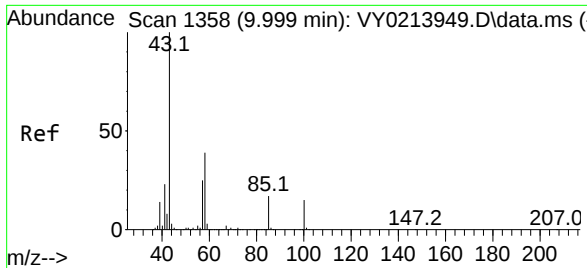
Tgt Ion: 98 Resp: 29161

Ion Ratio Lower Upper

98 100

100 63.8 52.1 78.1

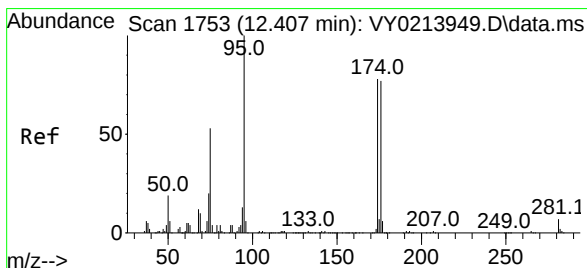
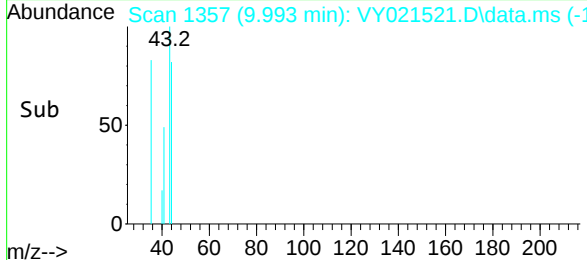
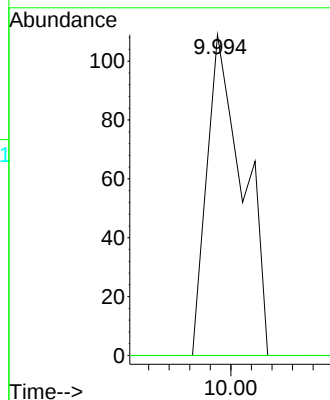
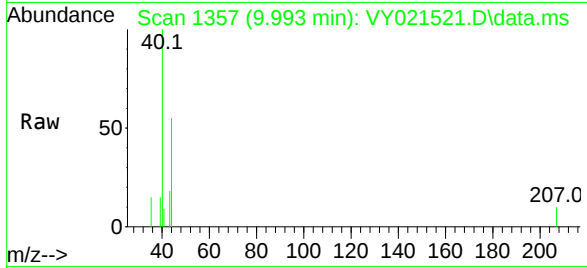




#51
4-Methyl-2-Pentanone
Concen: 1.050 ug/l
RT: 9.993 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

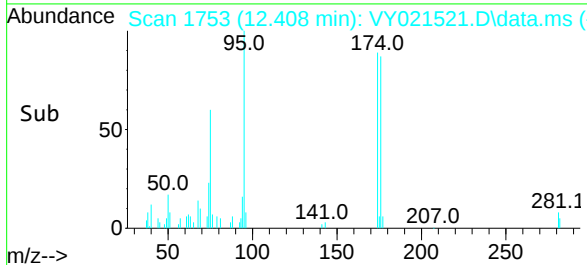
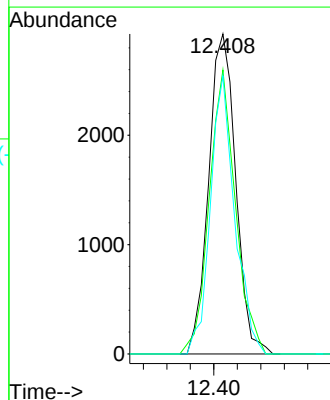
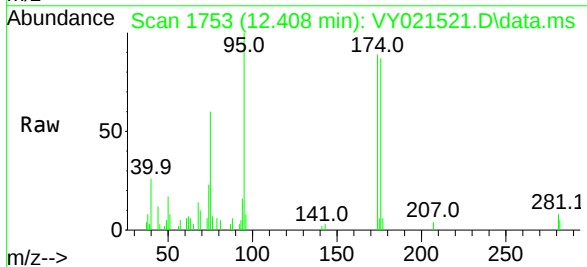
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

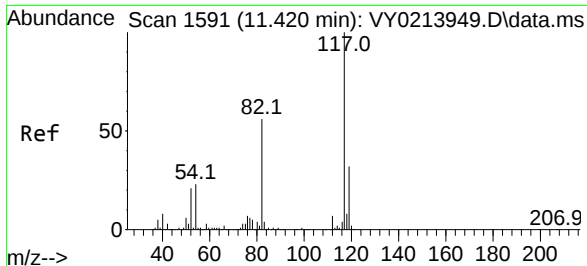
Tgt Ion: 43 Resp: 133
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#62
4-Bromofluorobenzene
Concen: 19.879 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 95 Resp: 4680
Ion Ratio Lower Upper
95 100
174 86.3 0.0 165.0
176 78.4 0.0 160.0

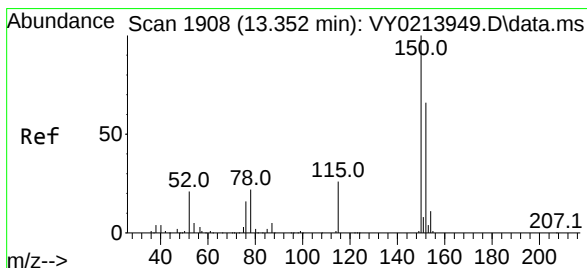
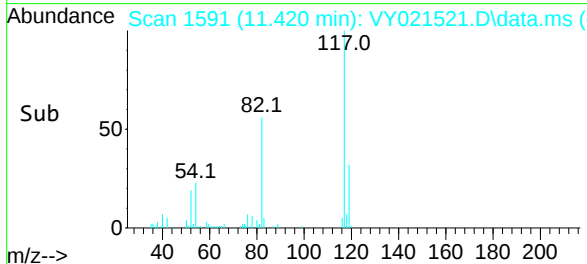
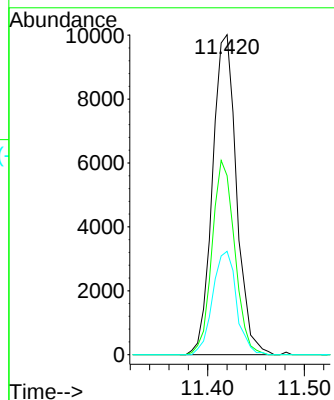
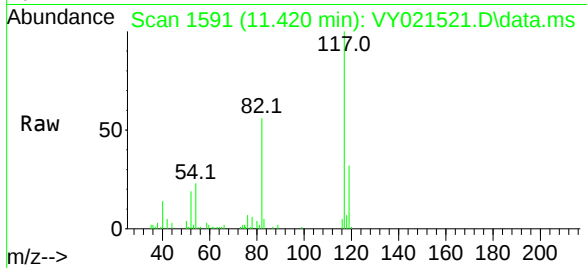




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

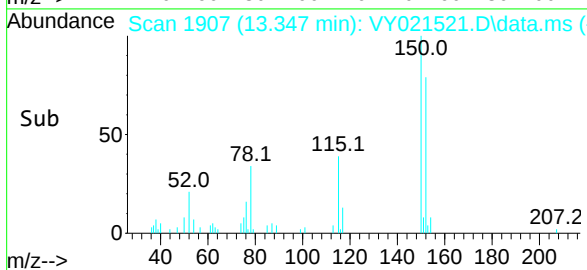
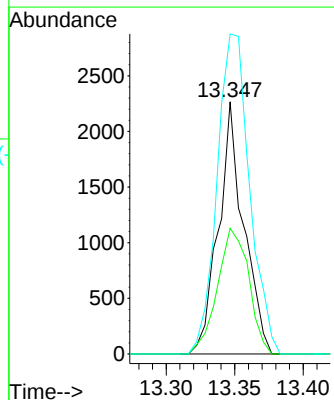
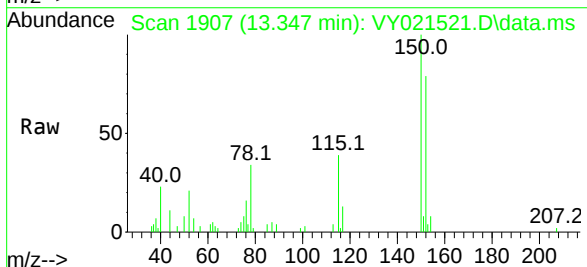
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

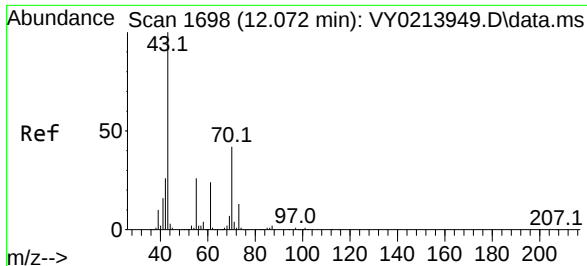
Tgt Ion:117 Resp: 17230
Ion Ratio Lower Upper
117 100
82 56.0 44.6 67.0
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion:152 Resp: 2901
Ion Ratio Lower Upper
152 100
115 61.8 29.0 87.0
150 163.8 0.0 347.2

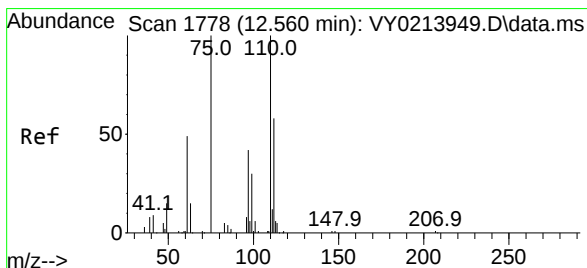
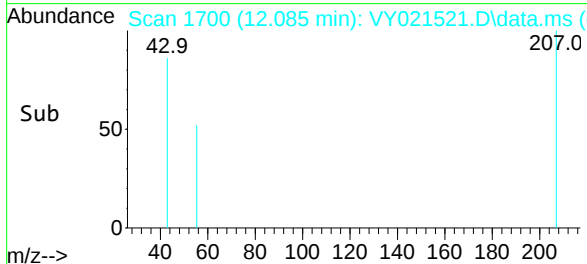
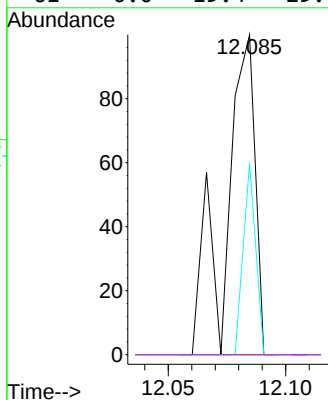
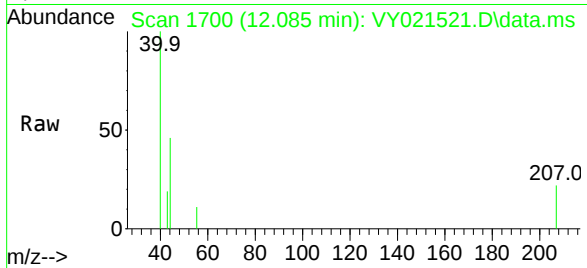




#74
N-amy1 acetate
Concen: 1.753 ug/l
RT: 12.085 min Scan# 1753
Delta R.T. 0.013 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

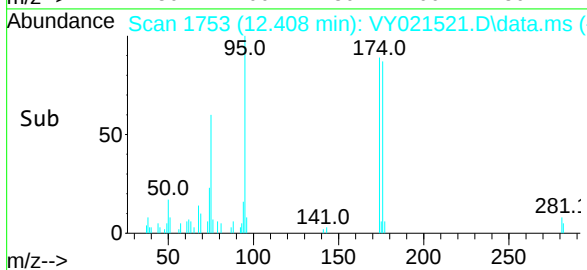
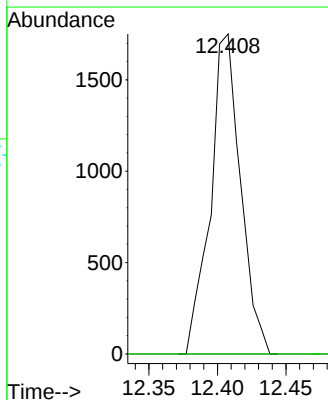
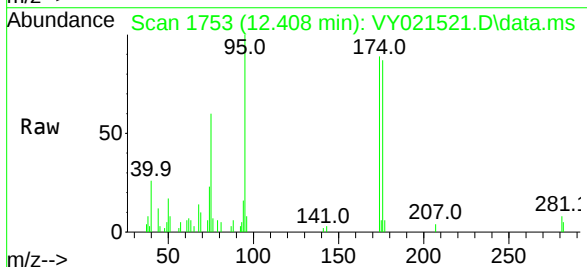
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

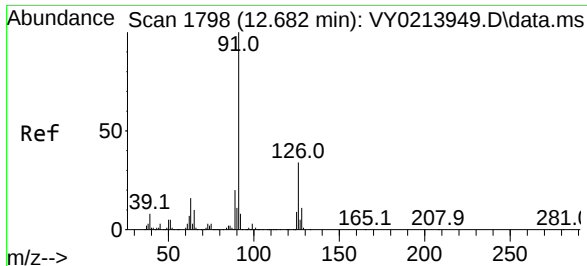
Tgt Ion: 43	Resp: 87
Ion Ratio	Lower Upper
43	100
70	0.0 34.6 51.8#
55	25.3 21.1 31.7
61	0.0 19.4 29.0#



#76
1,2,3-Trichloropropane
Concen: 91.472 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 75	Resp: 2674
Ion Ratio	Lower Upper
75	100
77	0.0 0.0 0.0

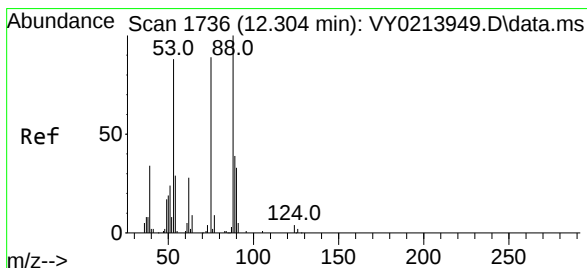
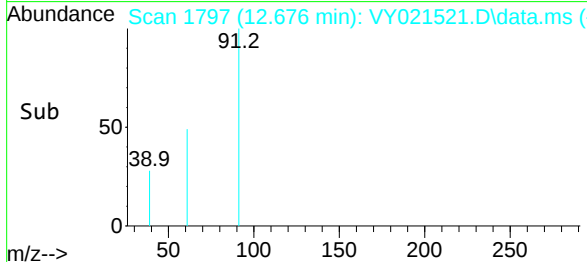
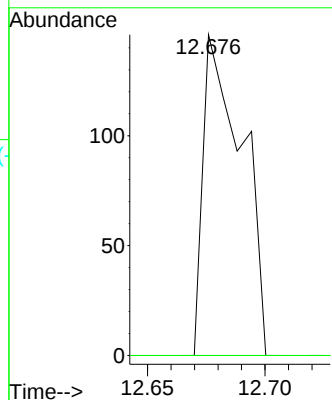
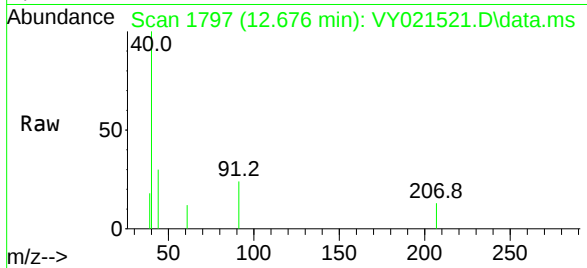




#79
2-Chlorotoluene
Concen: 1.059 ug/l
RT: 12.676 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

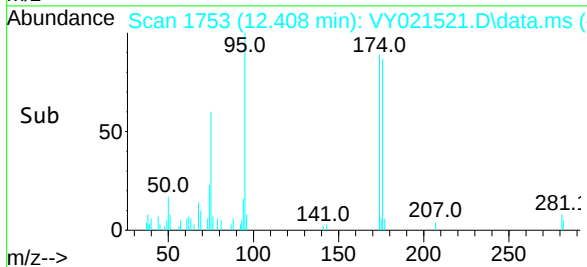
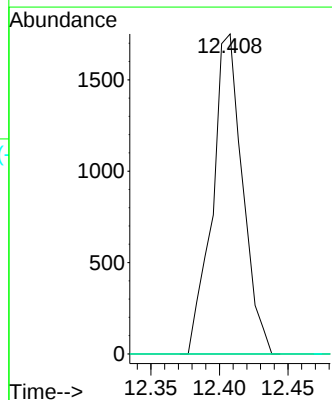
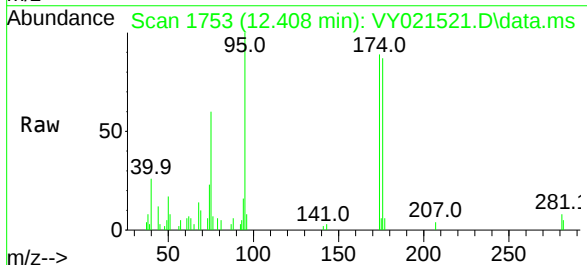
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

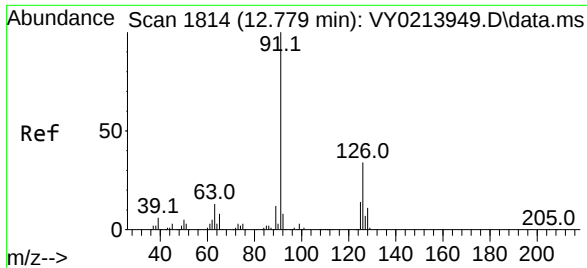
Tgt Ion: 91 Resp: 168
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 207.945 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 75 Resp: 2674
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.9 55.3#

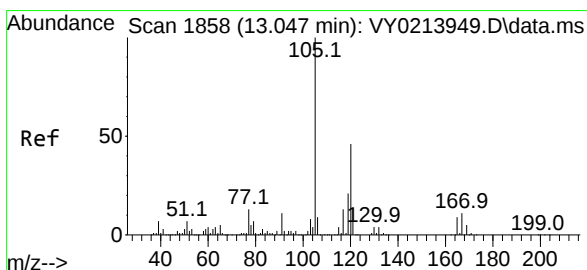
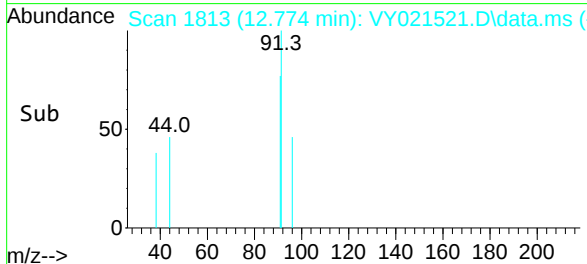
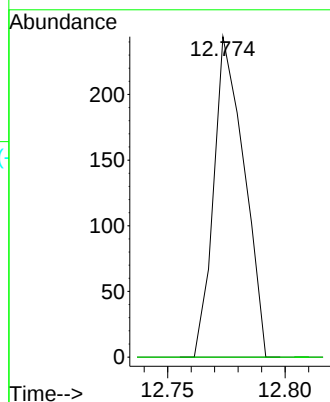
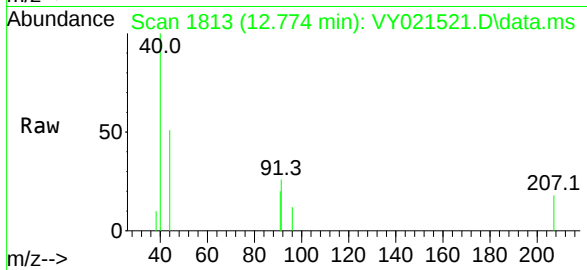




#82
4-Chlorotoluene
Concen: 1.333 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

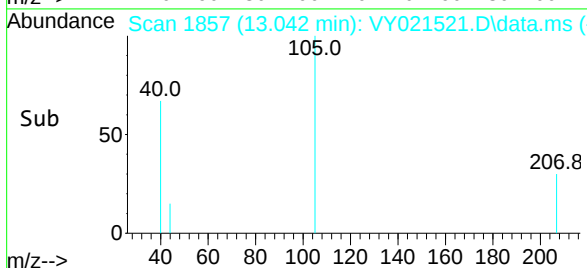
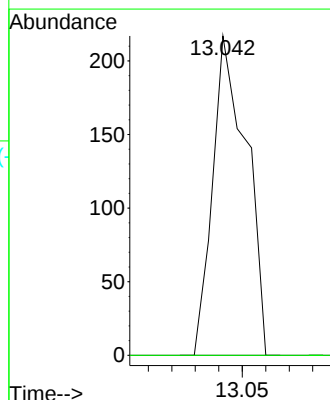
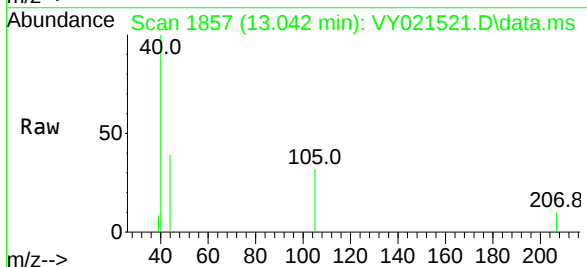
Instrument :
MSVOA_Y
ClientSampleId :
RT2321

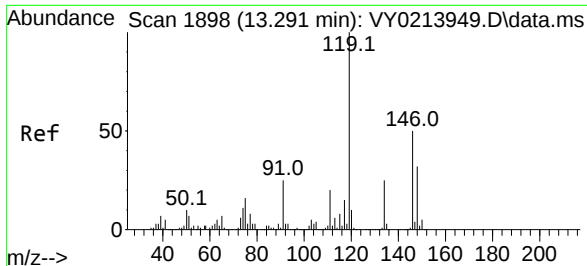
Tgt Ion: 91 Resp: 219
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#84
1,2,4-Trimethylbenzene
Concen: 1.171 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion: 105 Resp: 216
Ion Ratio Lower Upper
105 100
120 0.0 22.7 68.1#





#87

1,3-Dichlorobenzene

Concen: 1.428 ug/l

RT: 13.292 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

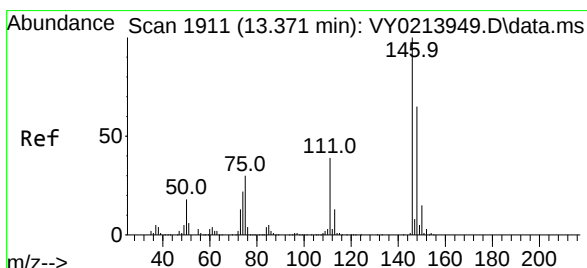
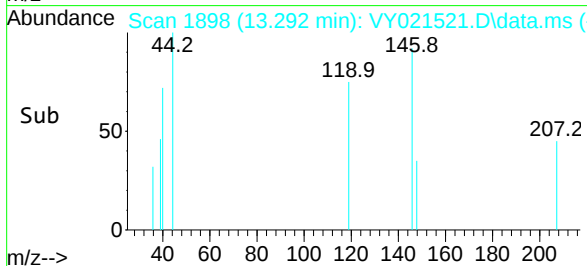
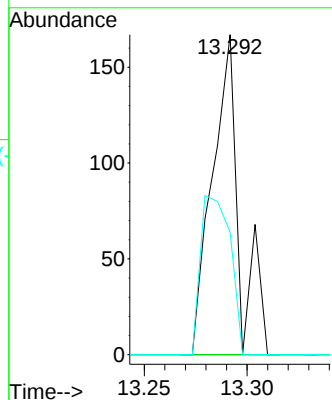
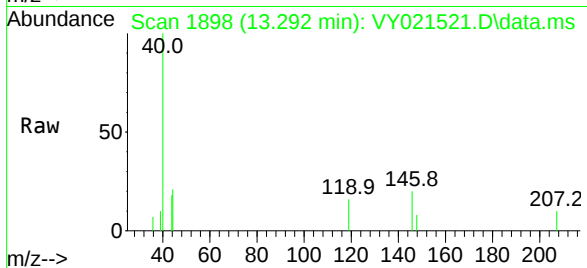
Instrument :

MSVOA_Y

ClientSampleId :

RT2321

Tgt Ion:146	Resp:	152
Ion	Ratio	Lower Upper
146	100	
111	0.0	20.0 60.0#
148	54.6	31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 1.835 ug/l

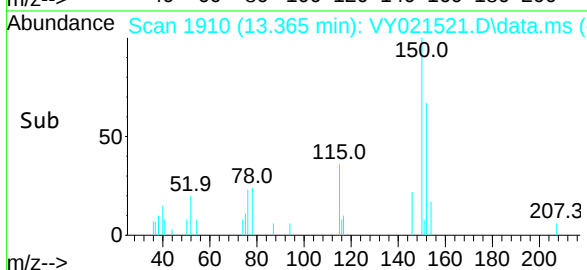
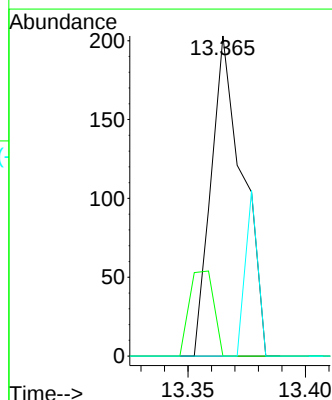
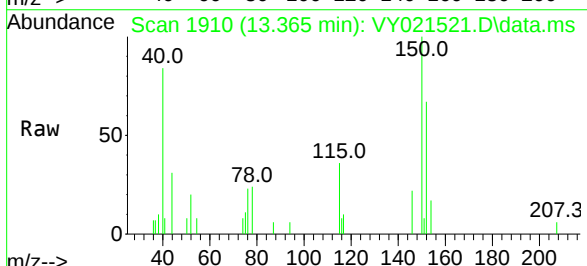
RT: 13.365 min Scan# 1910

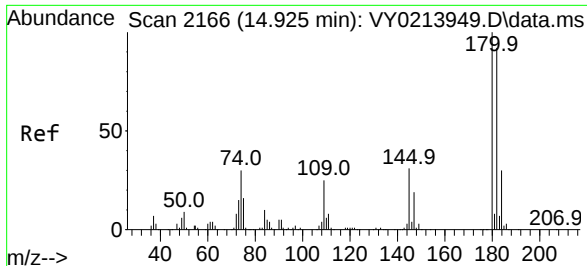
Delta R.T. -0.006 min

Lab File: VY021521.D

Acq: 13 Mar 2025 13:34

Tgt Ion:146	Resp:	191
Ion	Ratio	Lower Upper
146	100	
111	20.4	19.6 58.8
148	19.9	32.3 96.8#

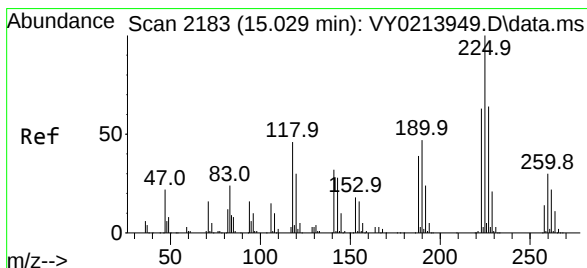
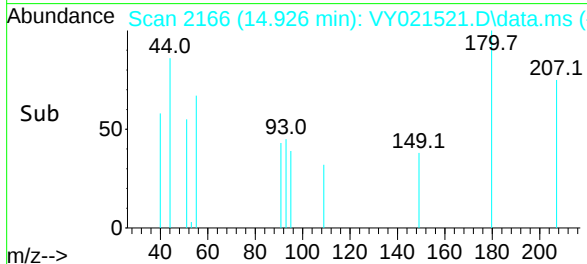
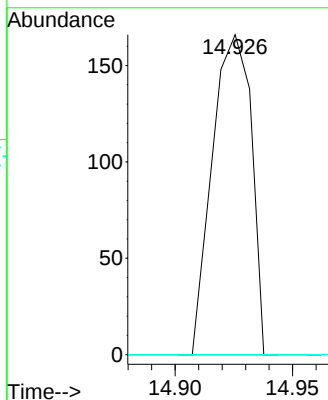
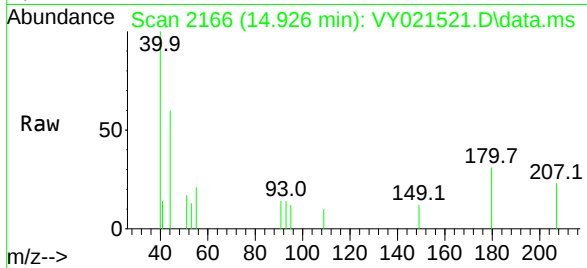




#93
 1,2,4-Trichlorobenzene
 Concen: 3.854 ug/l
 RT: 14.926 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VY021521.D
 Acq: 13 Mar 2025 13:34

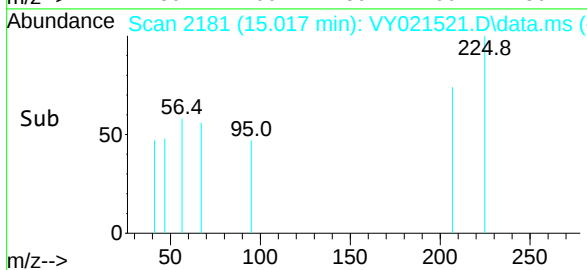
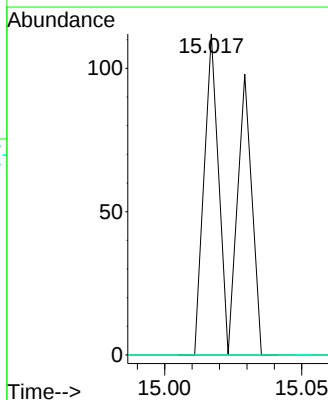
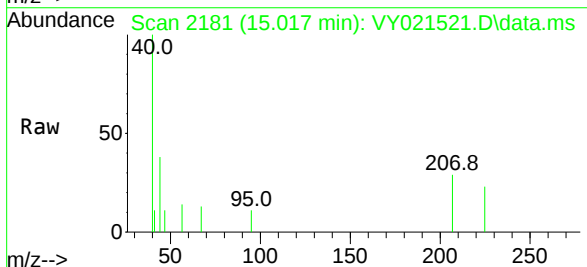
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT2321

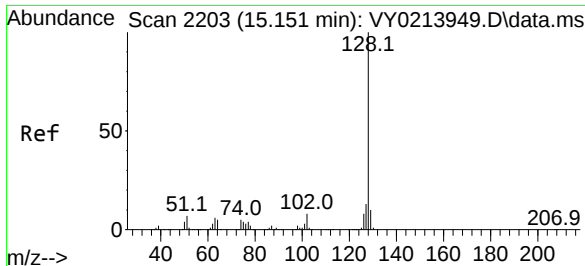
Tgt Ion:180 Resp: 192
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.7 140.0#
 145 0.0 15.6 46.8#



#94
 Hexachlorobutadiene
 Concen: 2.466 ug/l
 RT: 15.017 min Scan# 2181
 Delta R.T. -0.012 min
 Lab File: VY021521.D
 Acq: 13 Mar 2025 13:34

Tgt Ion:225 Resp: 77
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.2#
 227 0.0 31.8 95.4#

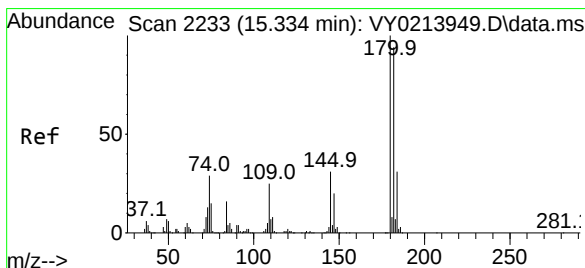
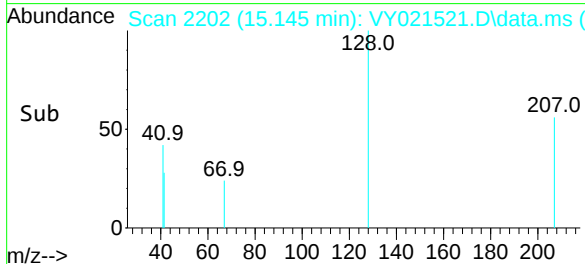
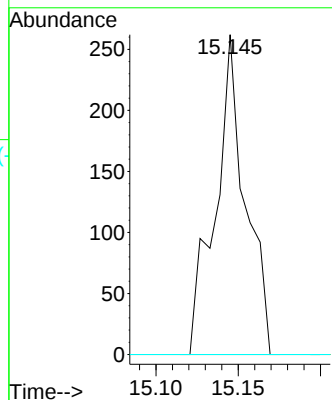
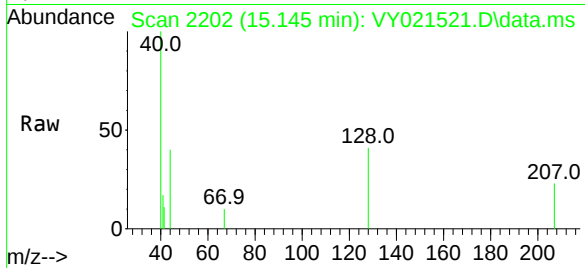




#95
Naphthalene
Concen: 5.653 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Instrument :
MSVOA_Y
ClientSampleId :
RT2321

Tgt Ion:128 Resp: 333
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 2.625 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY021521.D
Acq: 13 Mar 2025 13:34

Tgt Ion:180 Resp: 110
Ion Ratio Lower Upper
180 100
182 181.8 47.2 141.6#
145 0.0 16.4 49.1#

