

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020625\
 Data File : VY021110.D
 Acq On : 06 Feb 2025 14:48
 Operator : SY/MD
 Sample : Q1289-02
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 07 02:32:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

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

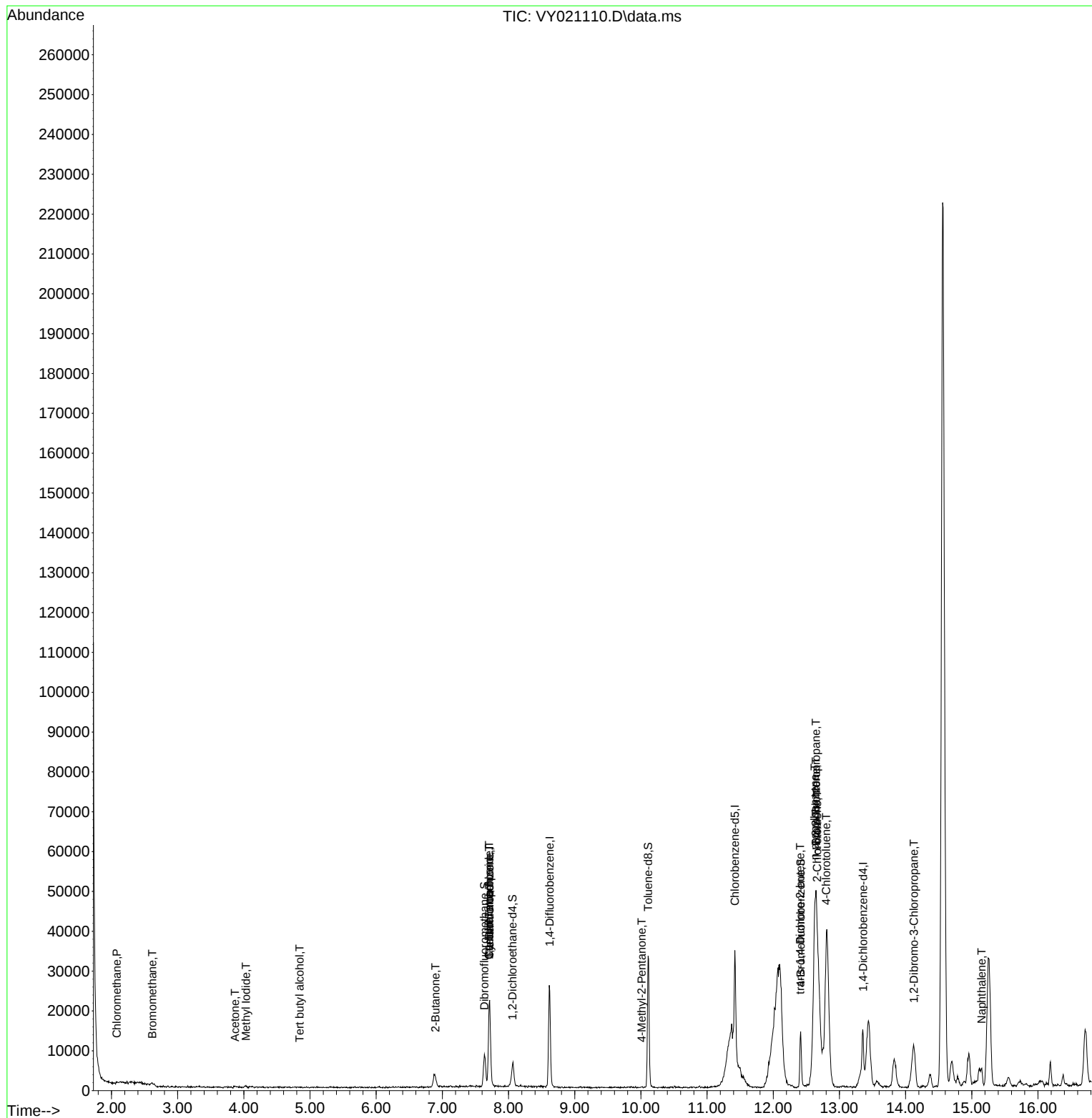
Internal Standards						
1) Pentafluorobenzene	7.713	168	16852	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	22075	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	13322	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.358	152	2730	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	4421	25.605	ug/l	0.00
Spiked Amount 50.000	Range	50 - 163	Recovery	=	51.200%	
35) Dibromofluoromethane	7.634	113	6262	44.263	ug/l	0.00
Spiked Amount 50.000	Range	54 - 147	Recovery	=	88.520%	
50) Toluene-d8	10.109	98	23018	42.737	ug/l	0.00
Spiked Amount 50.000	Range	58 - 134	Recovery	=	85.480%	
62) 4-Bromofluorobenzene	12.414	95	4028	22.892	ug/l	0.00
Spiked Amount 50.000	Range	30 - 143	Recovery	=	45.780%	
Target Compounds						Qvalue
3) Chloromethane	2.080	50	288	1.943	ug/l #	41
5) Bromomethane	2.617	94	262	2.842	ug/l #	67
10) Methyl Iodide	4.031	142	450	2.375	ug/l #	85
11) Tert butyl alcohol	4.842	59	29	2.479	ug/l #	75
16) Acetone	3.866	43	545	20.240	ug/l #	41
25) 2-Butanone	6.896	43	58	1.311	ug/l #	48
31) Cyclohexane	7.707	56	367	1.246	ug/l #	37
36) 1,1-Dichloropropene	7.707	75	1350	6.443	ug/l #	43
38) Carbon Tetrachloride	7.707	117	1724	7.041	ug/l #	12
51) 4-Methyl-2-Pentanone	10.012	43	151	1.644	ug/l #	35
76) 1,2,3-Trichloropropane	12.645	75	2060	83.184	ug/l #	100
77) Bromobenzene	12.645	156	60186	1223.015	ug/l #	1
78) n-propylbenzene	12.627	91	508	2.000	ug/l #	54
79) 2-Chlorotoluene	12.663	91	579	3.980	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.407	75	2160	177.974	ug/l #	12
82) 4-Chlorotoluene	12.798	91	418	2.820	ug/l #	1
92) 1,2-Dibromo-3-Chloropr...	14.127	75	243	45.849	ug/l #	1
95) Naphthalene	15.151	128	4066	55.362	ug/l #	93

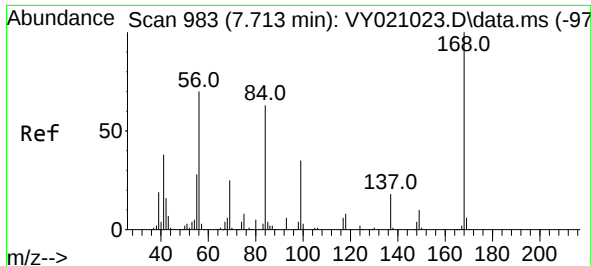
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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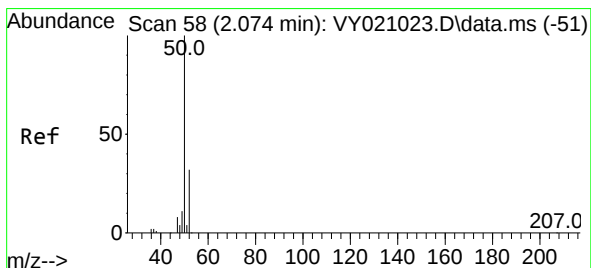
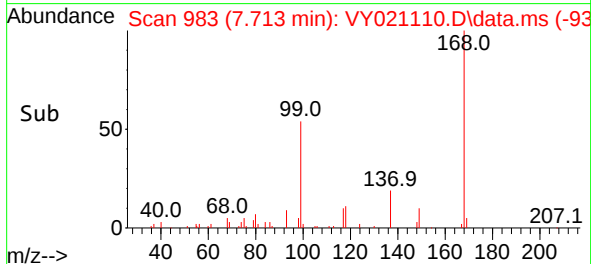
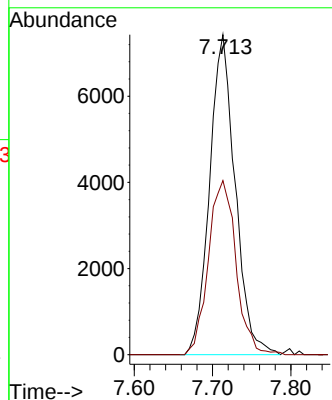
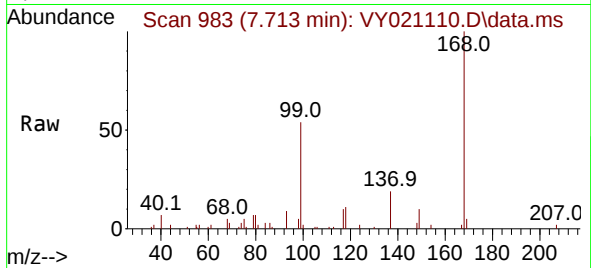




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

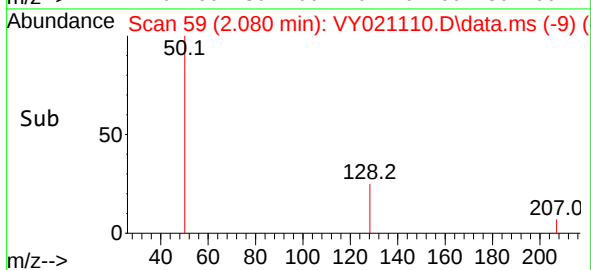
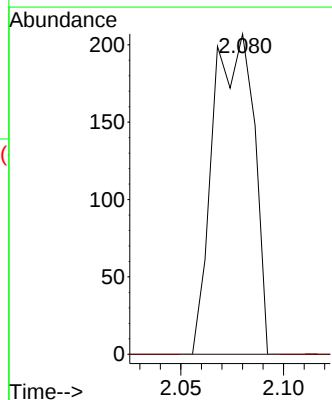
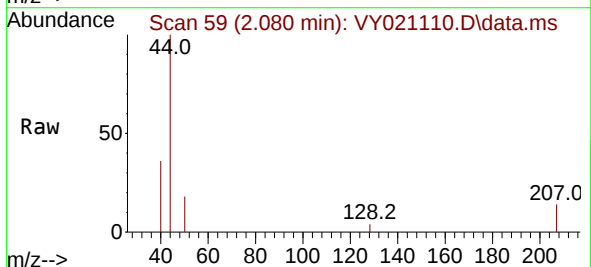
Instrument :
MSVOA_Y
ClientSampleId :

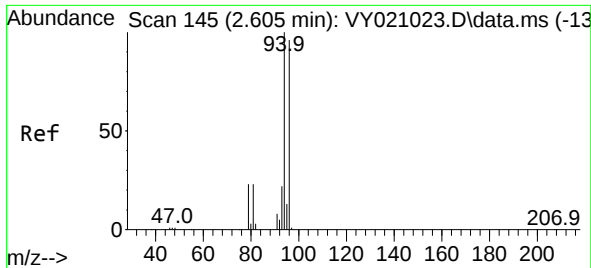
Tgt Ion:168 Resp: 16852
Ion Ratio Lower Upper
168 100
99 54.4 44.2 66.4



#3
Chloromethane
Concen: 1.943 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 50 Resp: 288
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#

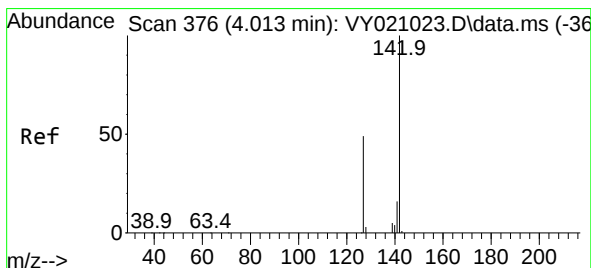
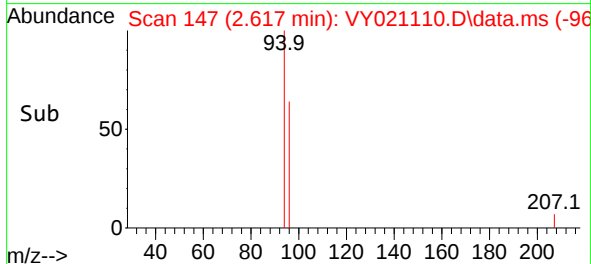
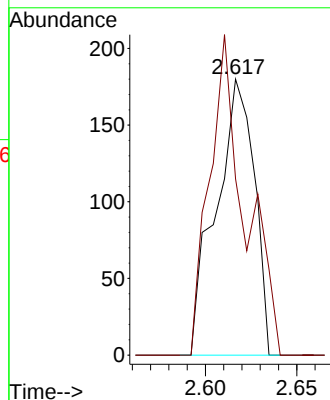
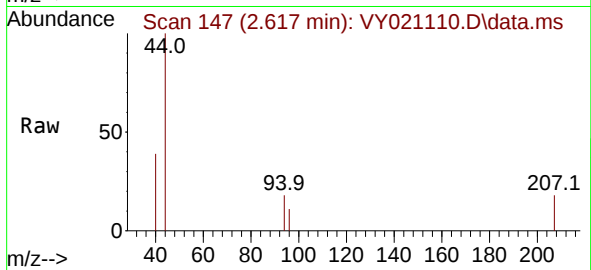




#5
Bromomethane
Concen: 2.842 ug/l
RT: 2.617 min Scan# 145
Delta R.T. 0.012 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

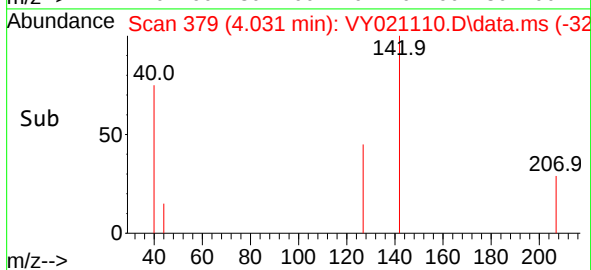
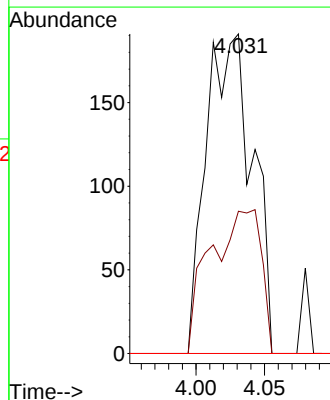
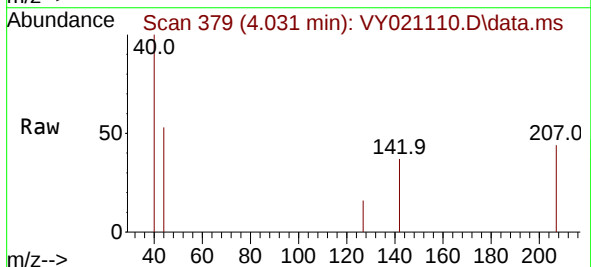
Instrument :
MSVOA_Y
ClientSampleId :

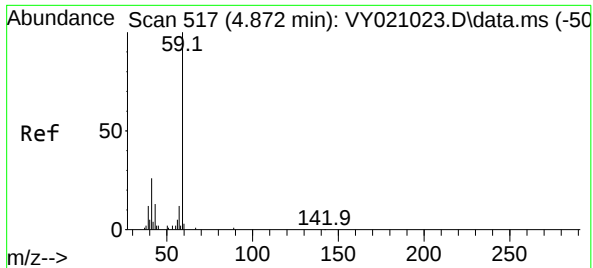
Tgt Ion: 94 Resp: 262
Ion Ratio Lower Upper
94 100
96 63.9 77.3 115.9#



#10
Methyl Iodide
Concen: 2.375 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.018 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

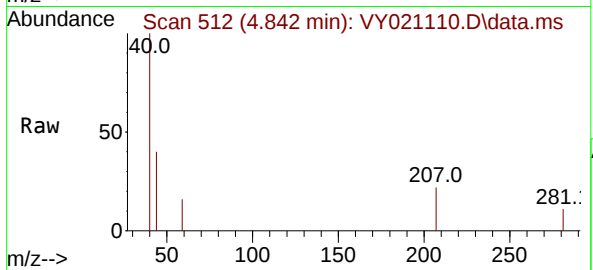
Tgt Ion:142 Resp: 450
Ion Ratio Lower Upper
142 100
127 49.3 35.1 52.7
141 0.0 11.8 17.6#



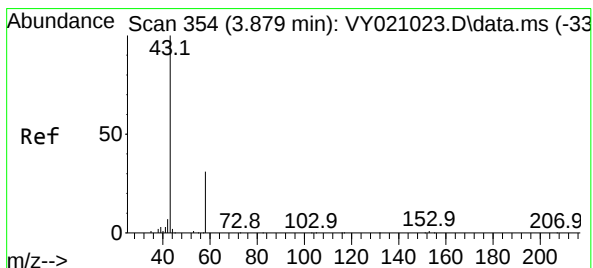
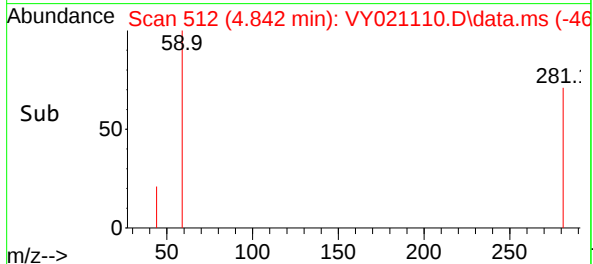
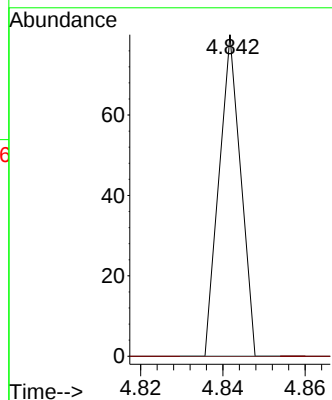


#11
Tert butyl alcohol
Concen: 2.479 ug/l
RT: 4.842 min Scan# 517
Delta R.T. -0.031 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :

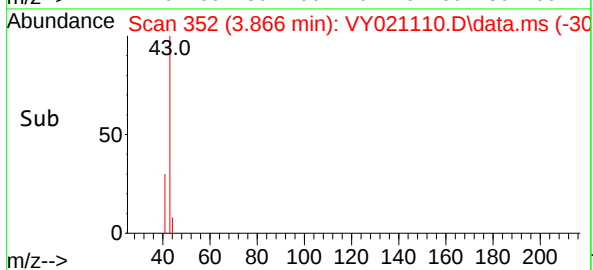
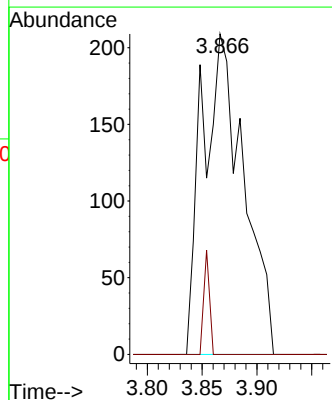
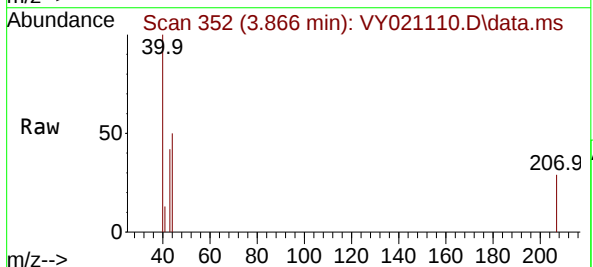


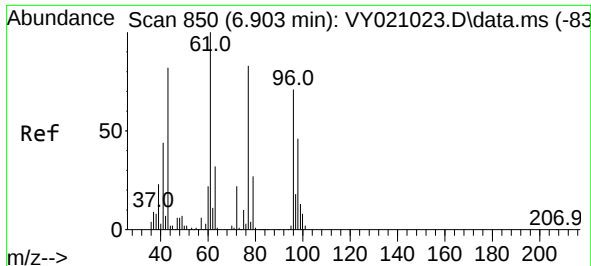
Tgt Ion: 59 Resp: 29
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#



#16
Acetone
Concen: 20.240 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 43 Resp: 545
Ion Ratio Lower Upper
43 100
58 0.0 26.6 39.8#





#25

2-Butanone

Concen: 1.311 ug/l

RT: 6.896 min Scan# 84

Delta R.T. -0.006 min

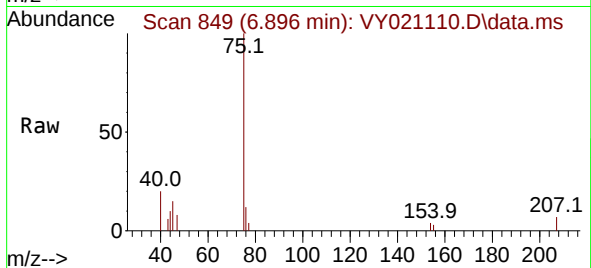
Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

Instrument :

MSVOA_Y

ClientSampleId :

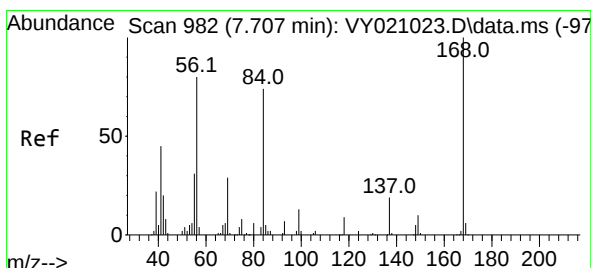
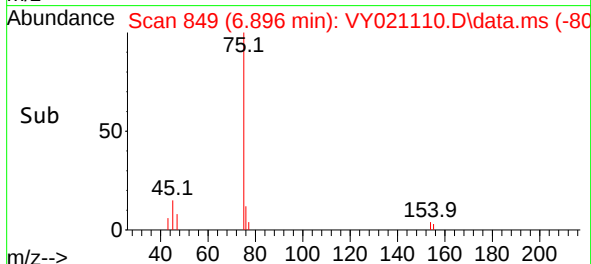
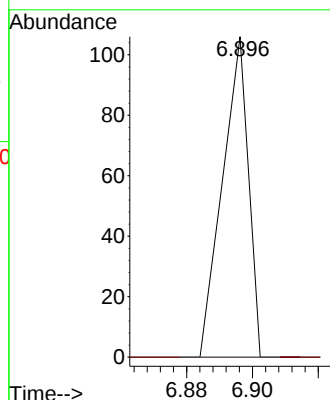


Tgt Ion: 43 Resp: 58

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#



#31

Cyclohexane

Concen: 1.246 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

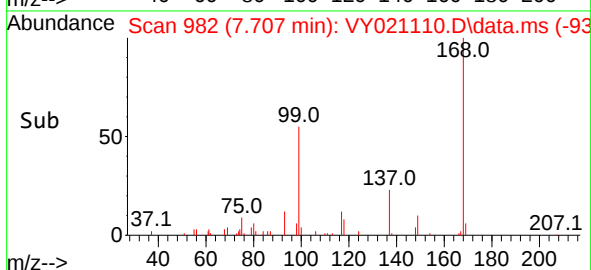
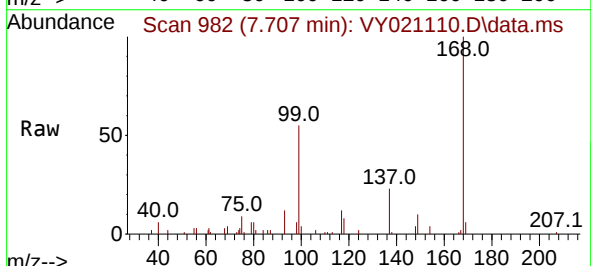
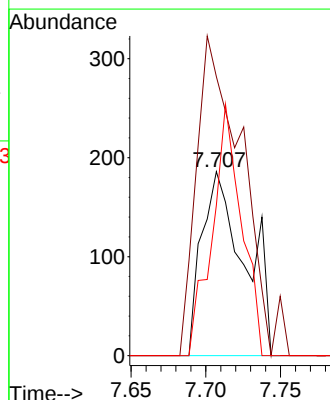
Tgt Ion: 56 Resp: 367

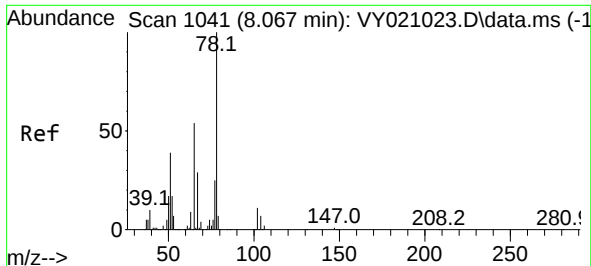
Ion Ratio Lower Upper

56 100

69 151.6 27.0 40.6#

84 81.7 71.8 107.6





#33

1,2-Dichloroethane-d4

Concen: 25.605 ug/l

RT: 8.061 min Scan# 1104

Delta R.T. -0.006 min

Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

Instrument :

MSVOA_Y

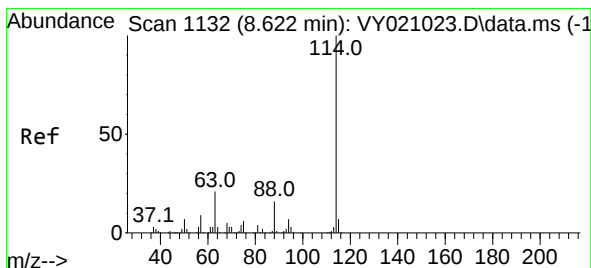
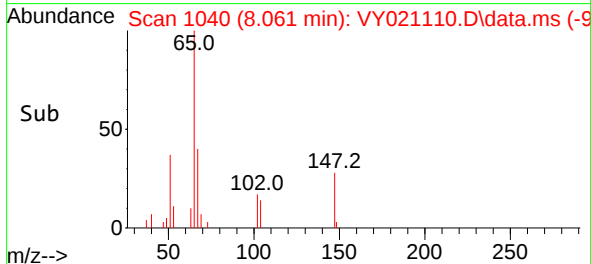
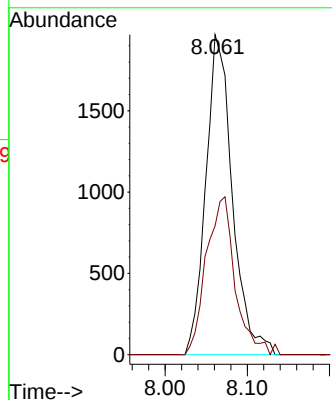
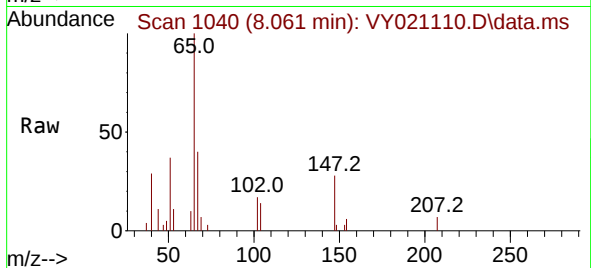
ClientSampleId :

Tgt Ion: 65 Resp: 4421

Ion Ratio Lower Upper

65 100

67 53.7 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

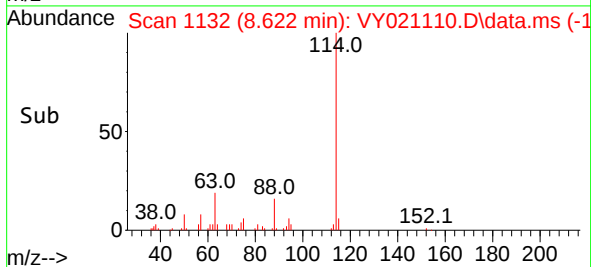
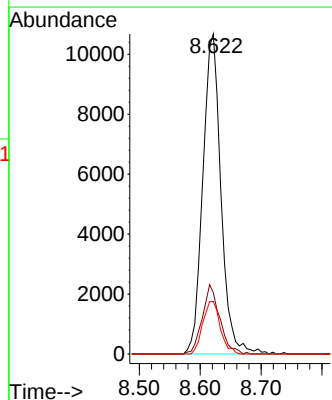
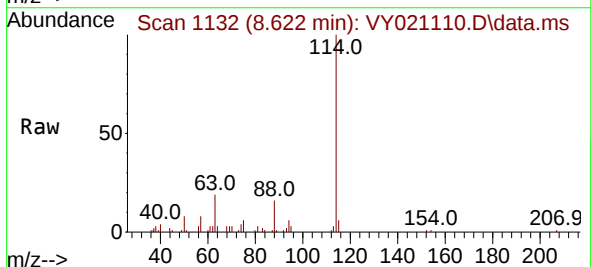
Tgt Ion: 114 Resp: 22075

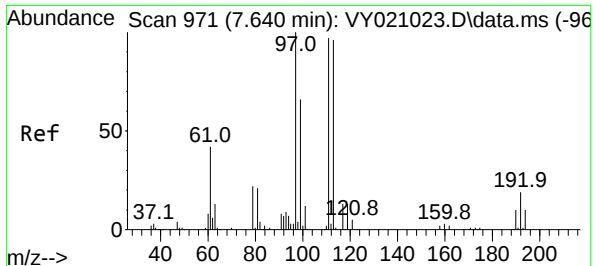
Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.4

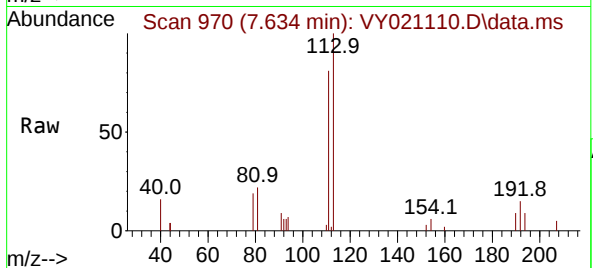
88 16.4 0.0 29.0



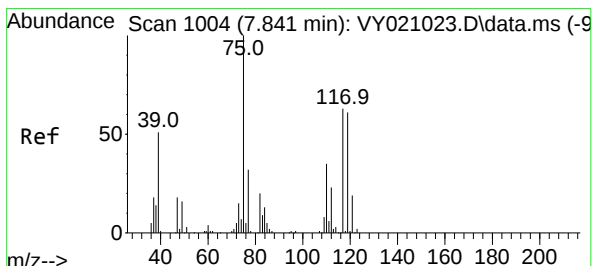
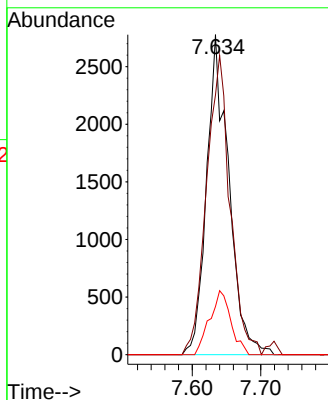
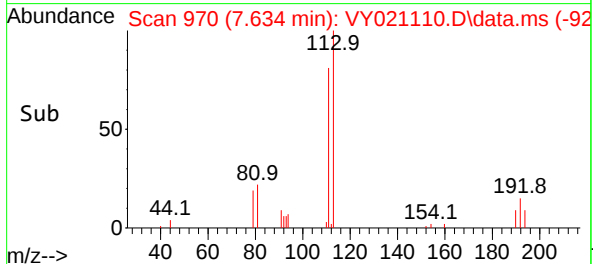


#35
Dibromofluoromethane
Concen: 44.263 ug/l
RT: 7.634 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Instrument :
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ClientSampleId :

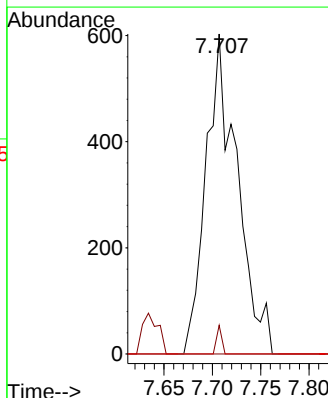
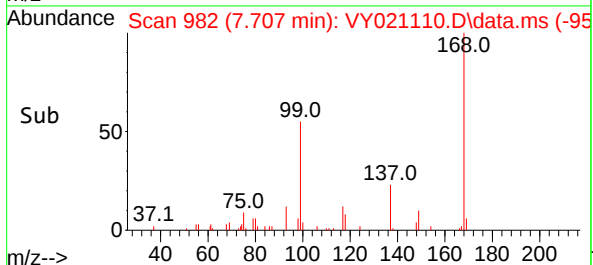
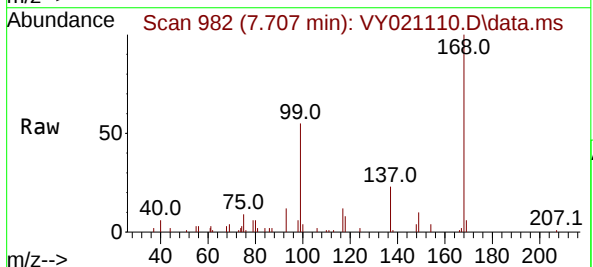


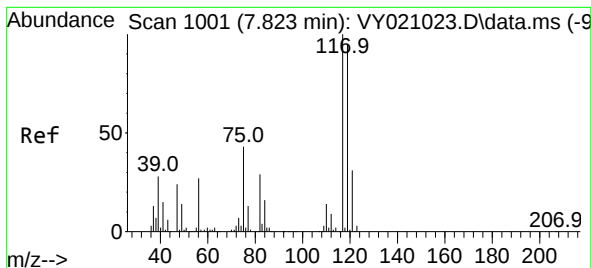
Tgt Ion:113 Resp: 6262
Ion Ratio Lower Upper
113 100
111 99.2 83.8 125.6
192 19.0 14.5 21.7



#36
1,1-Dichloropropene
Concen: 6.443 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.134 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 75 Resp: 1350
Ion Ratio Lower Upper
75 100
110 1.5 17.4 52.3#
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 7.041 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.116 min

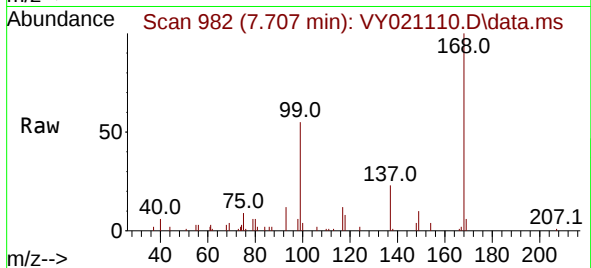
Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

Instrument :

MSVOA_Y

ClientSampleId :



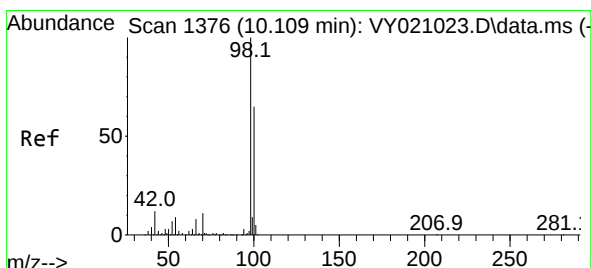
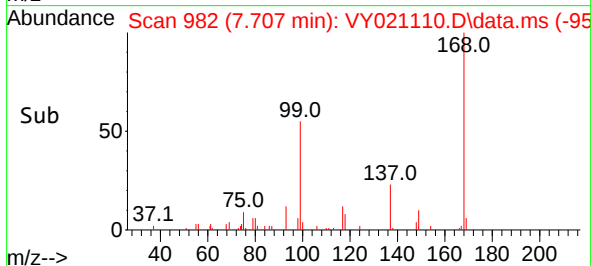
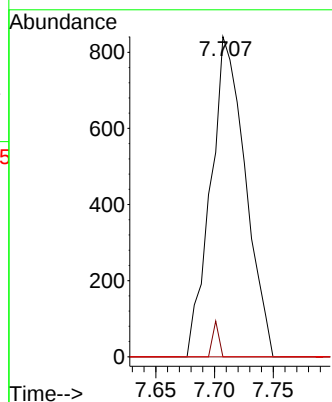
Tgt Ion:117 Resp: 1724

Ion Ratio Lower Upper

117 100

119 0.0 76.0 114.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 42.737 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021110.D

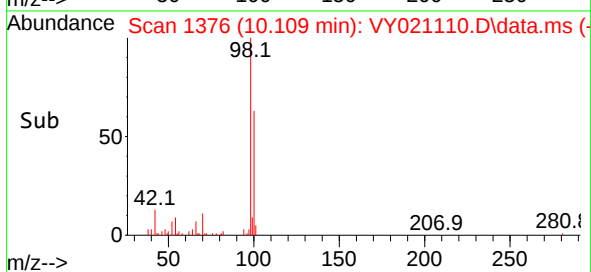
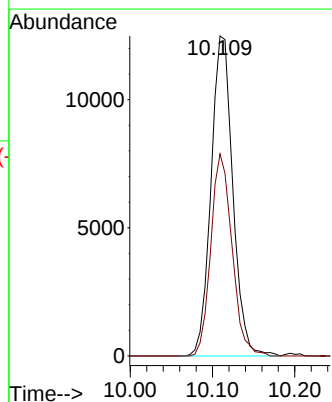
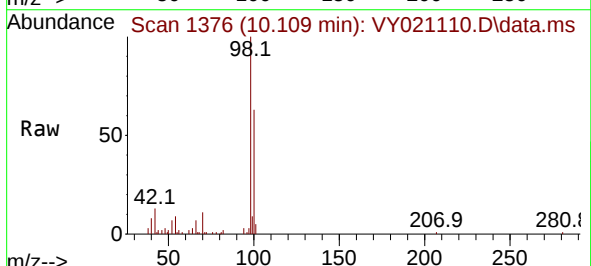
Acq: 06 Feb 2025 14:48

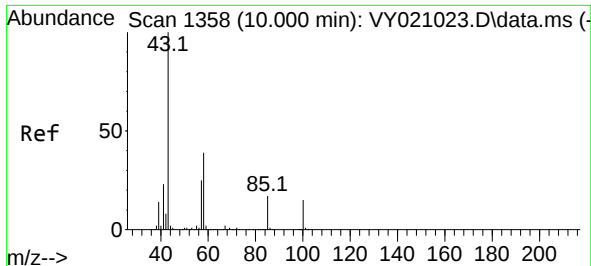
Tgt Ion: 98 Resp: 23018

Ion Ratio Lower Upper

98 100

100 61.3 52.3 78.5

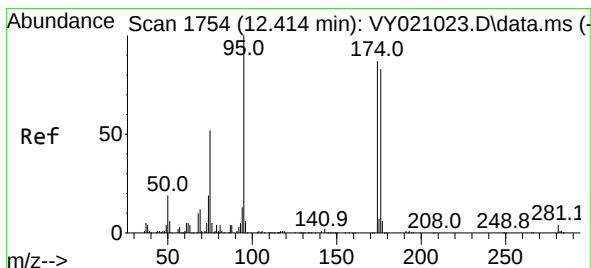
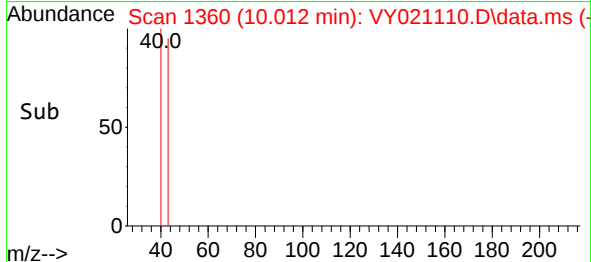
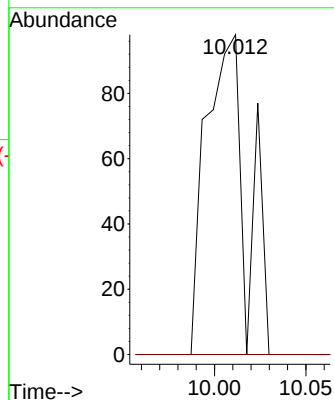
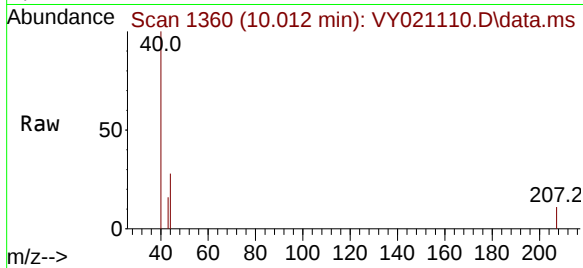




#51
4-Methyl-2-Pentanone
Concen: 1.644 ug/l
RT: 10.012 min Scan# 1360
Delta R.T. 0.012 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

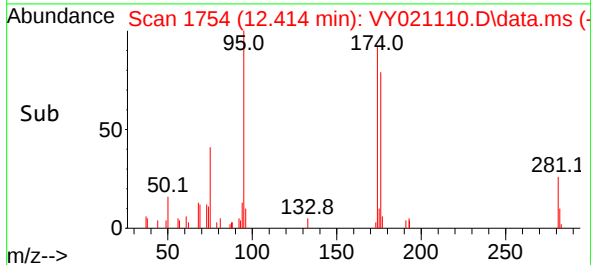
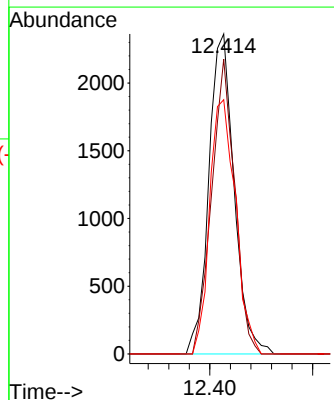
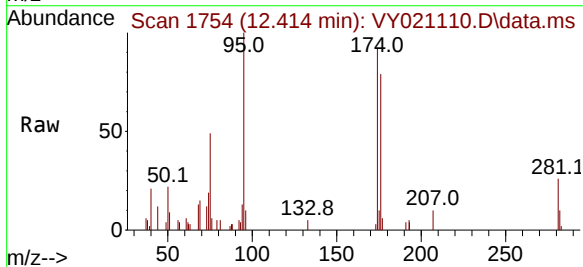
Instrument :
MSVOA_Y
ClientSampleId :

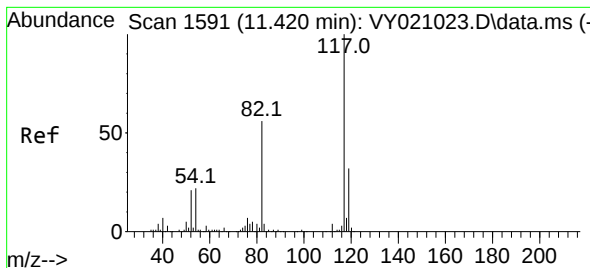
Tgt Ion: 43 Resp: 151
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.2#



#62
4-Bromofluorobenzene
Concen: 22.892 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 95 Resp: 4028
Ion Ratio Lower Upper
95 100
174 84.3 0.0 160.0
176 81.4 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021110.D

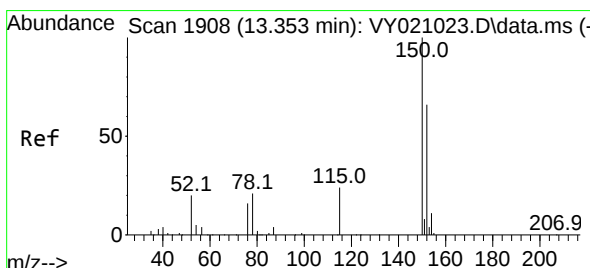
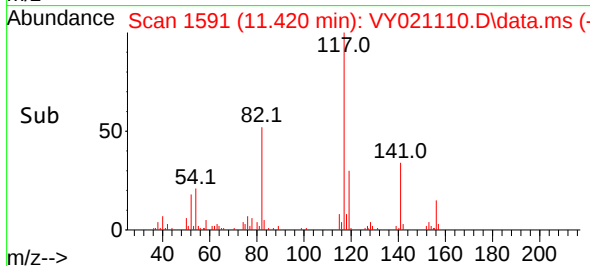
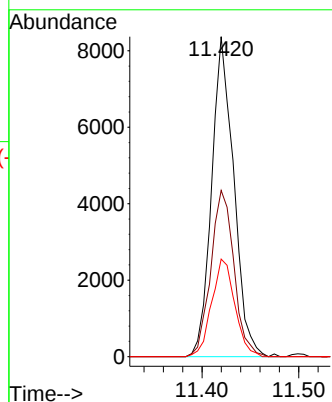
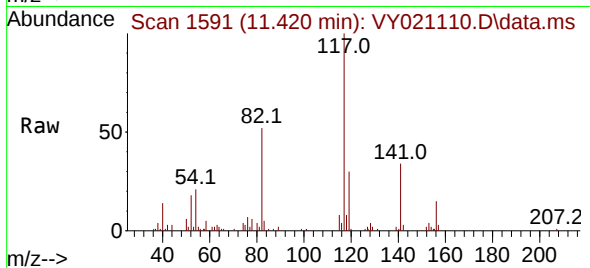
Acq: 06 Feb 2025 14:48

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	13322
Ion	Ratio	Lower Upper
117	100	
82	52.0	43.8 65.8
119	30.5	26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

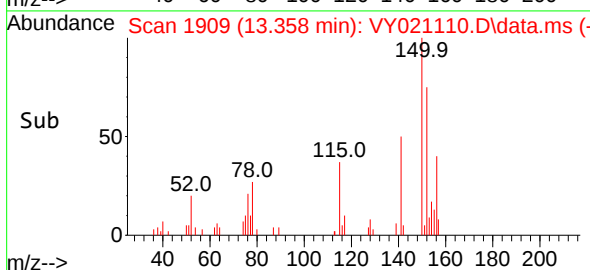
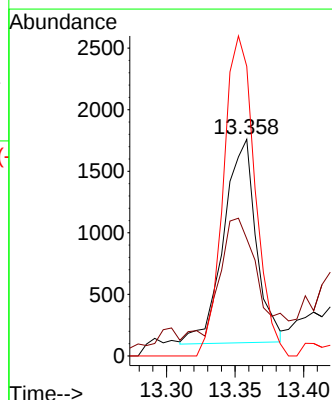
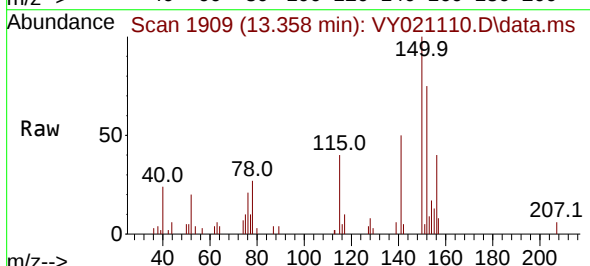
RT: 13.358 min Scan# 1909

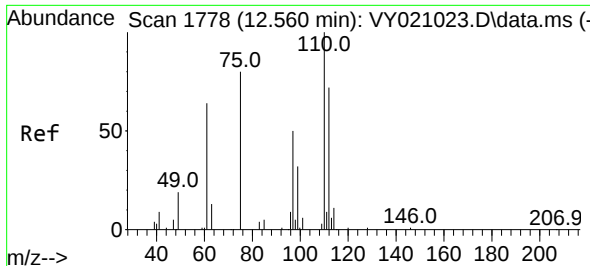
Delta R.T. 0.006 min

Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

Tgt Ion:152	Resp:	2730
Ion	Ratio	Lower Upper
152	100	
115	91.2	30.0 90.0#
150	153.1	0.0 344.6

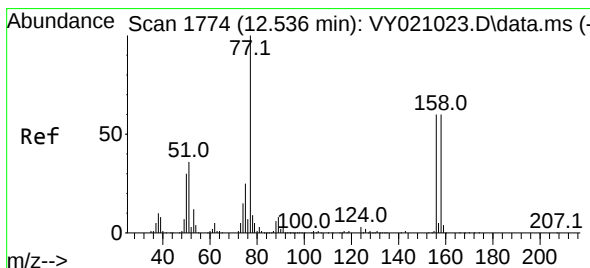
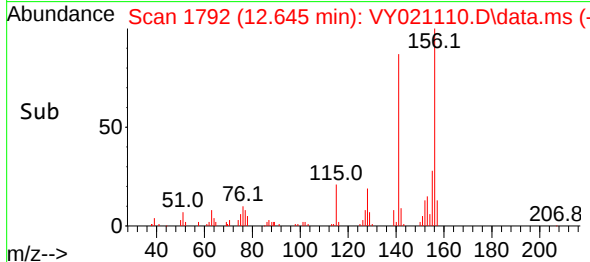
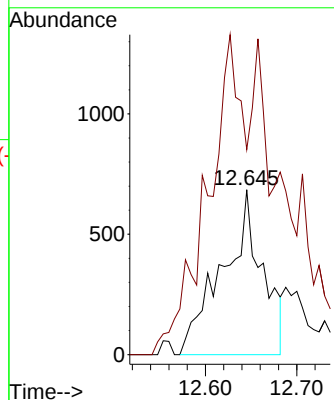
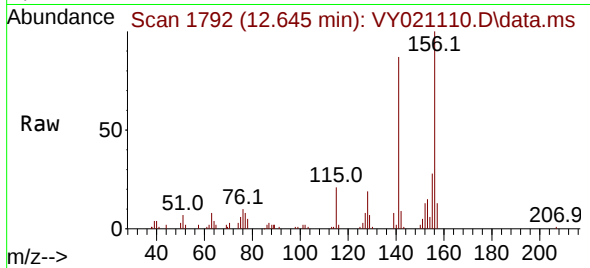




#76
1,2,3-Trichloropropane
Concen: 83.184 ug/l
RT: 12.645 min Scan# 1792
Delta R.T. 0.085 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

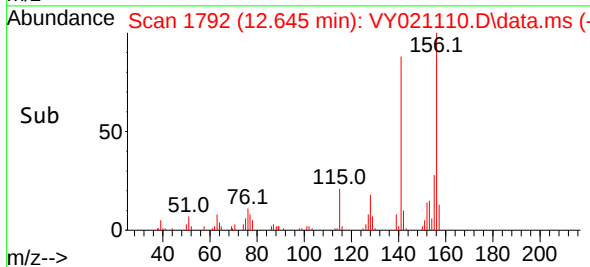
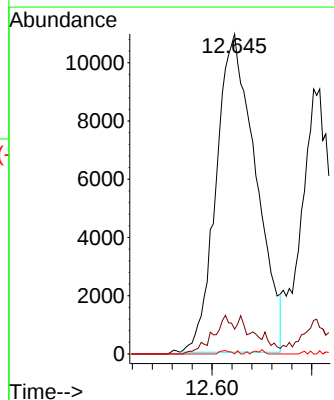
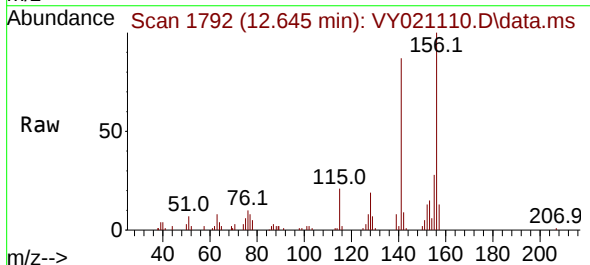
Instrument :
MSVOA_Y
ClientSampleId :

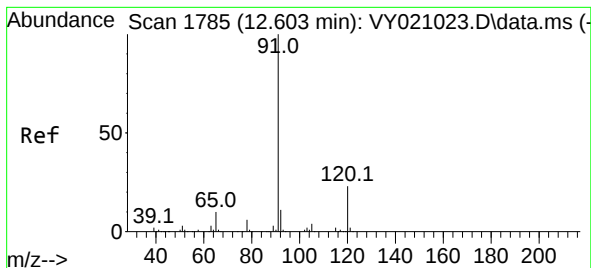
Tgt Ion: 75 Resp: 2060
Ion Ratio Lower Upper
75 100
77 62.1 0.0 0.0#



#77
Bromobenzene
Concen: 1223.015 ug/l
RT: 12.645 min Scan# 1792
Delta R.T. 0.109 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 156 Resp: 60186
Ion Ratio Lower Upper
156 100
77 2.1 97.3 291.8#
158 0.0 48.4 145.0#





#78

n-propylbenzene

Concen: 2.000 ug/l

RT: 12.627 min Scan# 1785

Delta R.T. 0.024 min

Lab File: VY021110.D

Acq: 06 Feb 2025 14:48

Instrument :

MSVOA_Y

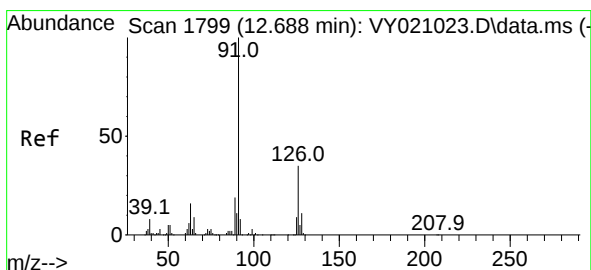
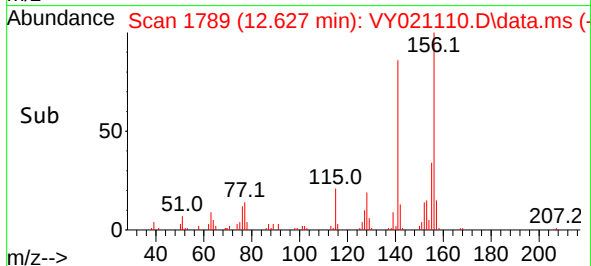
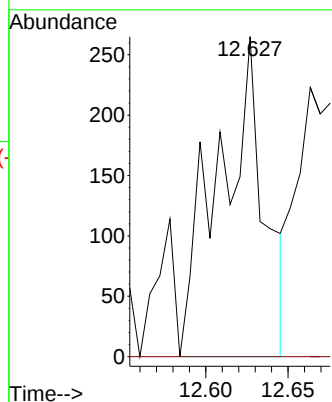
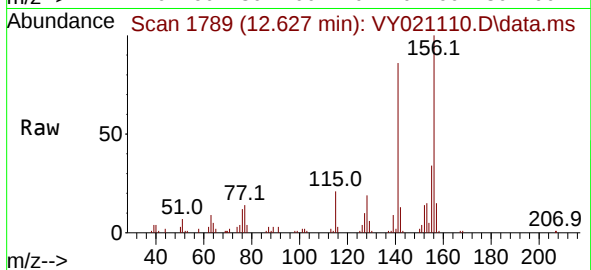
ClientSampleId :

Tgt Ion: 91 Resp: 508

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



#79

2-Chlorotoluene

Concen: 3.980 ug/l

RT: 12.663 min Scan# 1795

Delta R.T. -0.025 min

Lab File: VY021110.D

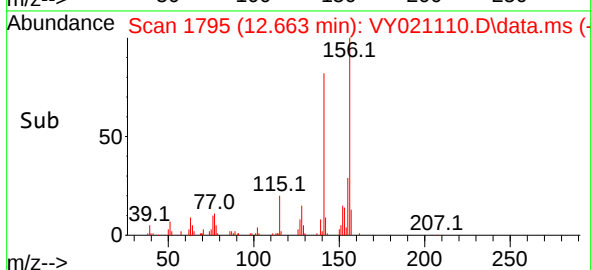
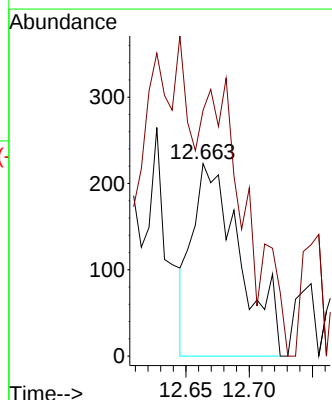
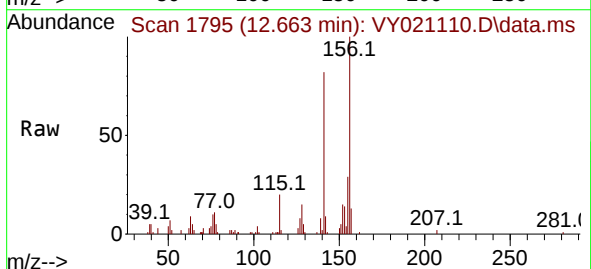
Acq: 06 Feb 2025 14:48

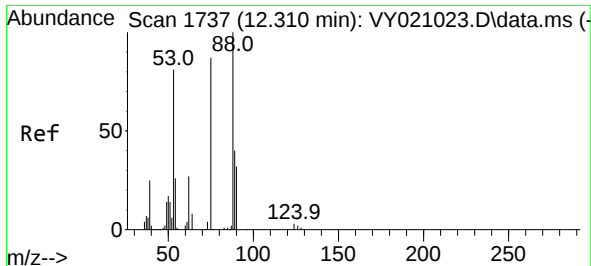
Tgt Ion: 91 Resp: 579

Ion Ratio Lower Upper

91 100

126 0.0 17.0 51.0#

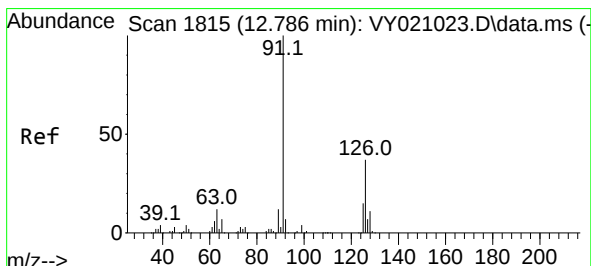
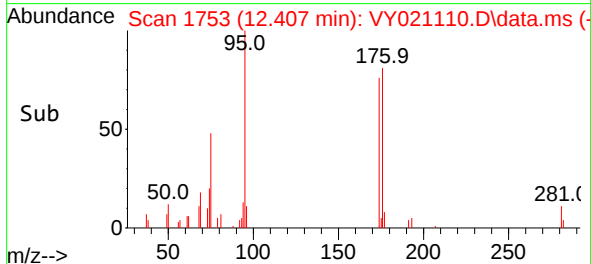
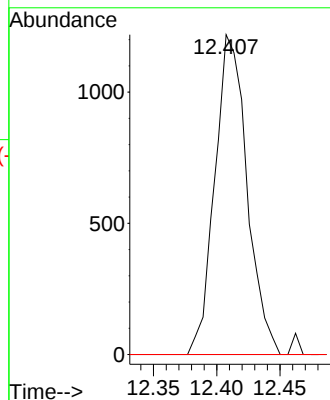
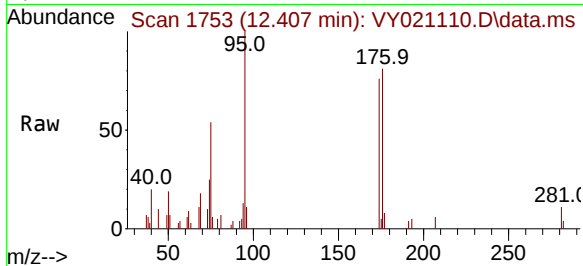




#81
trans-1,4-Dichloro-2-butene
Concen: 177.974 ug/l
RT: 12.407 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

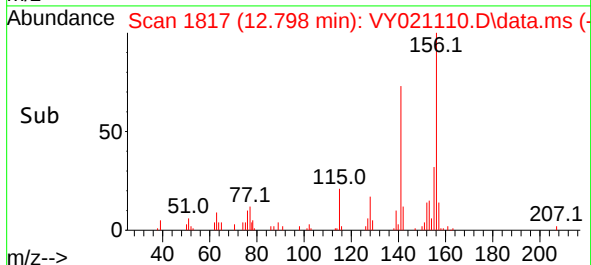
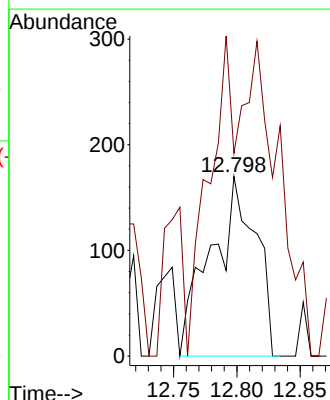
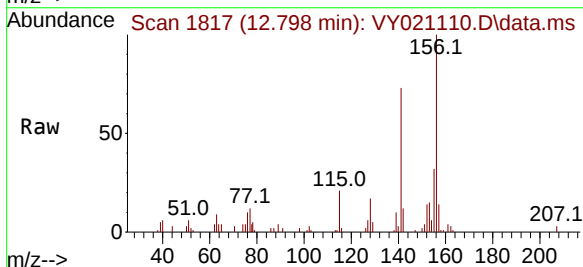
Instrument :
MSVOA_Y
ClientSampleId :

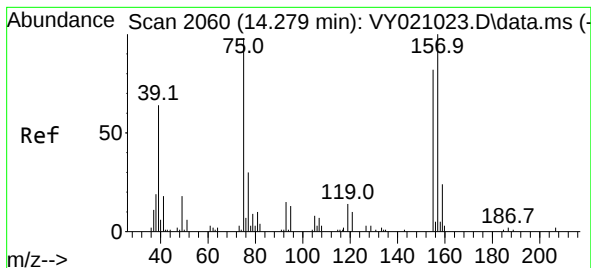
Tgt Ion: 75 Resp: 2160
Ion Ratio Lower Upper
75 100
53 0.0 74.0 111.0#
89 0.0 36.5 54.7#



#82
4-Chlorotoluene
Concen: 2.820 ug/l
RT: 12.798 min Scan# 1817
Delta R.T. 0.012 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 91 Resp: 418
Ion Ratio Lower Upper
91 100
126 99.3 17.1 51.2#

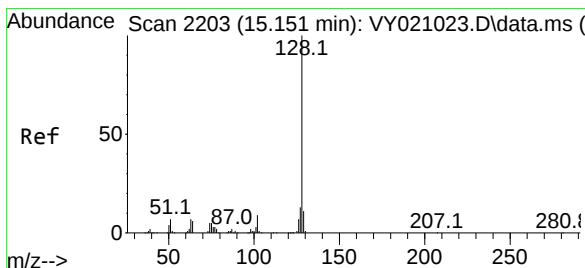
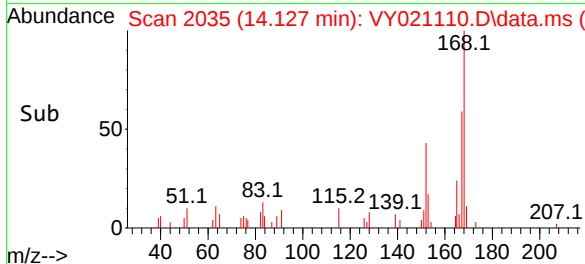
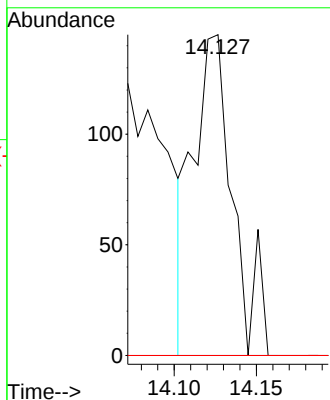
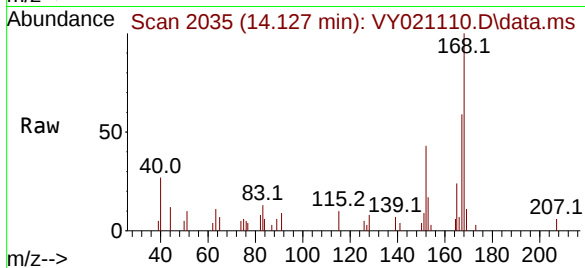




#92
1,2-Dibromo-3-Chloropropane
Concen: 45.849 ug/l
RT: 14.127 min Scan# 2060
Delta R.T. -0.153 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 243
Ion Ratio Lower Upper
75 100
155 0.0 42.1 126.3#
157 0.0 55.8 167.4#



#95
Naphthalene
Concen: 55.362 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. -0.000 min
Lab File: VY021110.D
Acq: 06 Feb 2025 14:48

Tgt Ion: 128 Resp: 4066
Ion Ratio Lower Upper
128 100
127 16.0 10.2 15.4#
129 12.5 8.6 12.8

