

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022896.D
 Acq On : 01 Jul 2025 12:57
 Operator : SY/MD
 Sample : Q2447-05
 Misc : 5.20g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-2

Quant Time: Jul 02 02:46:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

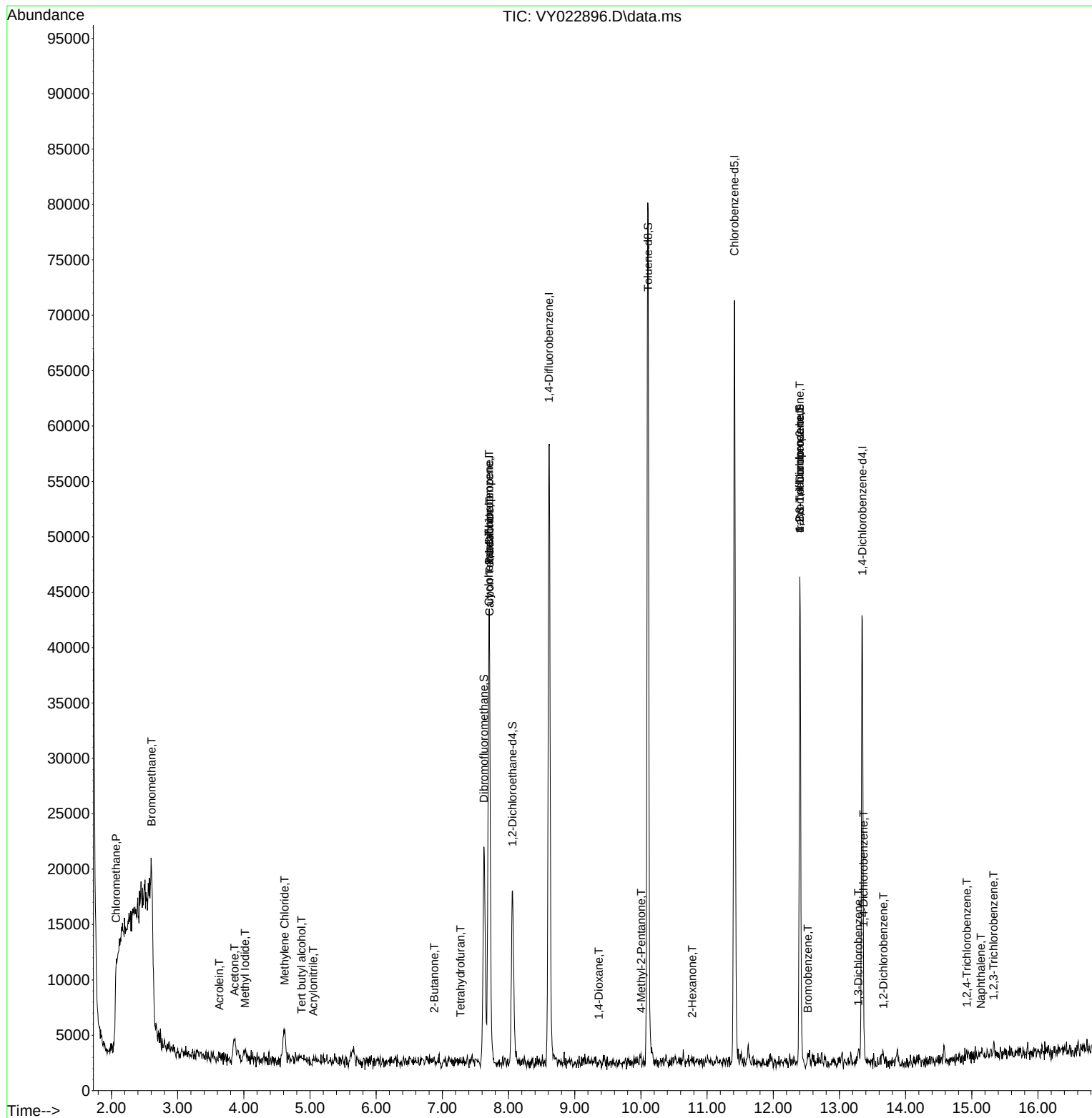
Internal Standards						
1) Pentafluorobenzene	7.707	168	30499	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	49087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	36600	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	10140	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12508	36.745	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	73.500%
35) Dibromofluoromethane	7.628	113	13794	46.207	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.420%
50) Toluene-d8	10.109	98	54671	46.152	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.300%
62) 4-Bromofluorobenzene	12.402	95	13016	34.180	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	68.360%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	1184	2.378	ug/l #	53
5) Bromomethane	2.605	94	2173	4.443	ug/l	95
10) Methyl Iodide	4.019	142	1274	3.717	ug/l #	72
11) Tert butyl alcohol	4.873	59	88	3.888	ug/l #	73
13) Acrolein	3.629	56	44	1.434	ug/l #	14
15) Acrylonitrile	5.049	53	129	1.817	ug/l #	17
16) Acetone	3.861	43	4036	62.731	ug/l	98
20) Methylene Chloride	4.616	84	2041	5.023	ug/l #	84
25) 2-Butanone	6.878	43	213	2.275	ug/l #	46
29) Tetrahydrofuran	7.275	42	63	1.065	ug/l #	31
31) Cyclohexane	7.701	56	852	1.457	ug/l #	35
36) 1,1-Dichloropropene	7.707	75	2805	6.199	ug/l #	51
38) Carbon Tetrachloride	7.713	117	3191	6.684	ug/l #	17
49) 1,4-Dioxane	9.366	88	23	10.532	ug/l #	1
51) 4-Methyl-2-Pentanone	10.006	43	273	1.324	ug/l #	37
59) 2-Hexanone	10.774	43	246	1.755	ug/l #	24
76) 1,2,3-Trichloropropane	12.402	75	7749	74.855	ug/l #	100
77) Bromobenzene	12.524	156	181	1.065	ug/l	79
81) trans-1,4-Dichloro-2-b...	12.402	75	7749	189.112	ug/l #	10
87) 1,3-Dichlorobenzene	13.286	146	475	1.391	ug/l	93
88) 1,4-Dichlorobenzene	13.365	146	748	2.206	ug/l	85
91) 1,2-Dichlorobenzene	13.664	146	374	1.243	ug/l #	65
93) 1,2,4-Trichlorobenzene	14.926	180	234	1.378	ug/l #	54
95) Naphthalene	15.139	128	1044	3.399	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.328	180	223	1.519	ug/l #	55

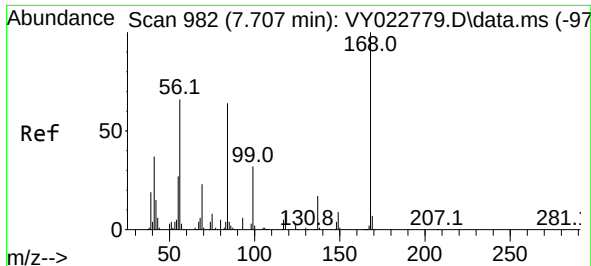
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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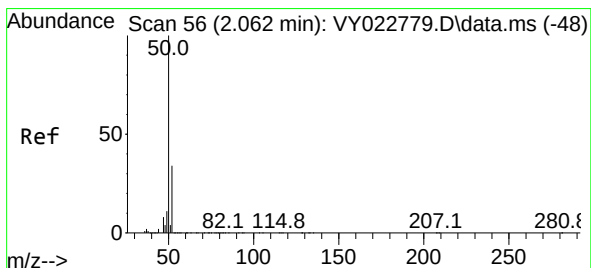
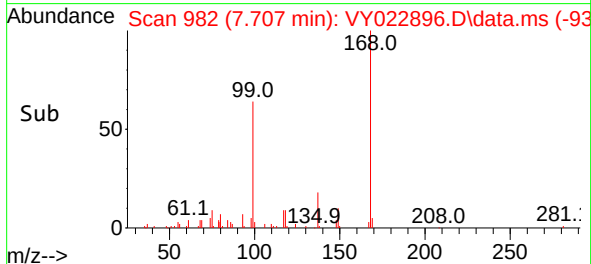
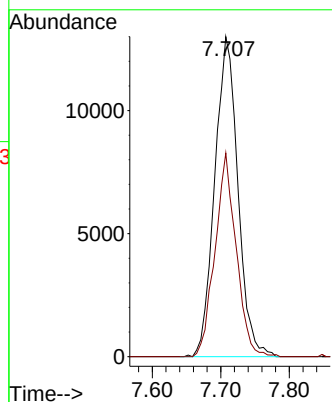
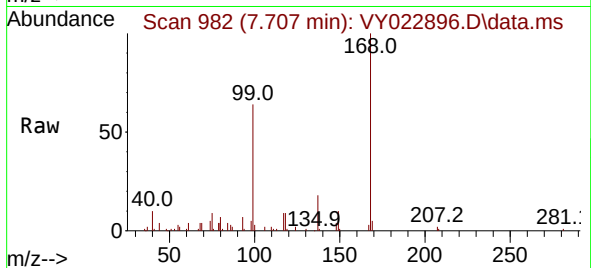




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

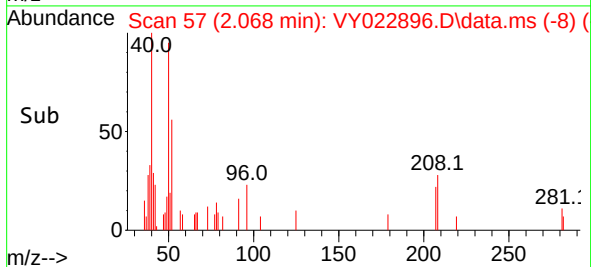
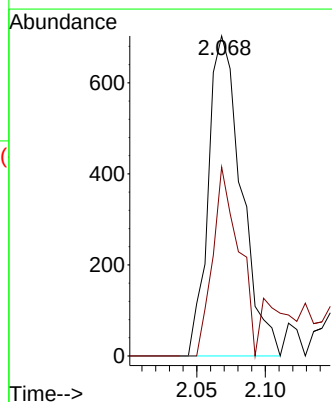
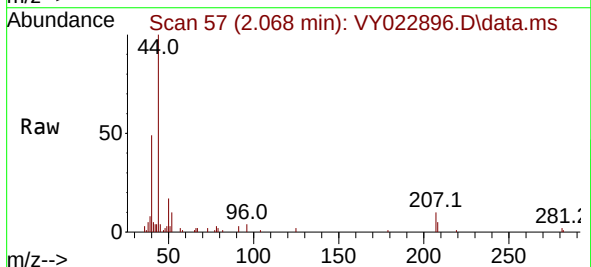
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

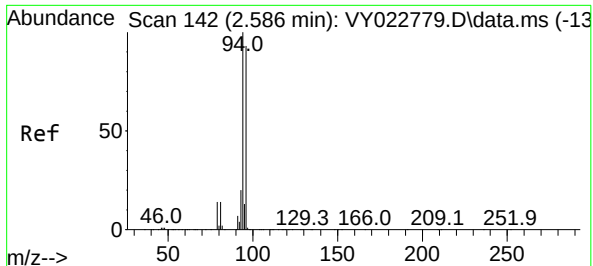
Tgt Ion:168 Resp: 30499
Ion Ratio Lower Upper
168 100
99 63.7 44.3 66.5



#3
Chloromethane
Concen: 2.378 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 50 Resp: 1184
Ion Ratio Lower Upper
50 100
52 59.0 26.0 39.0#

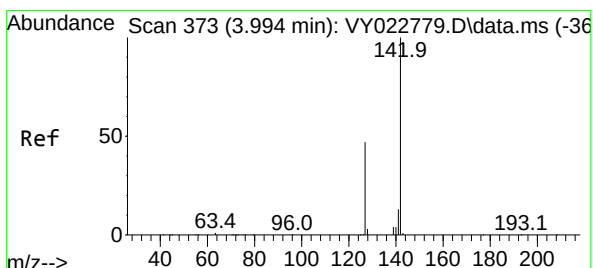
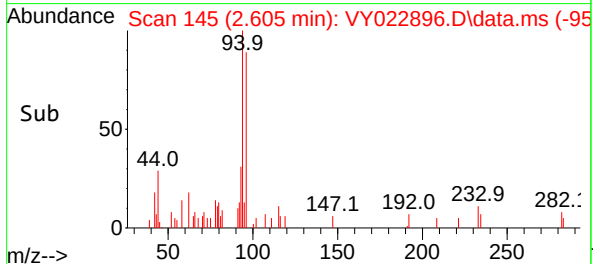
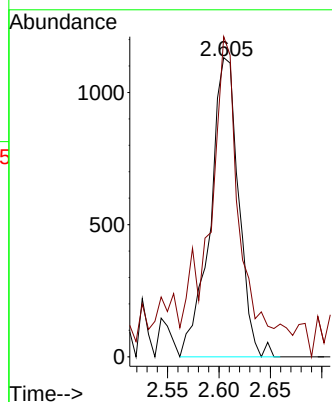
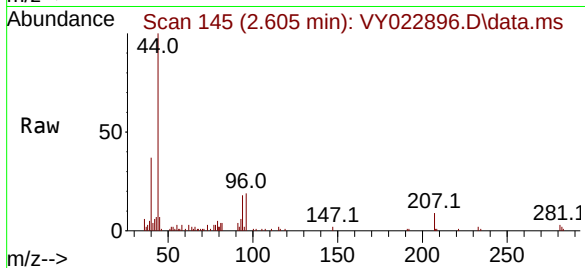




#5
Bromomethane
Concen: 4.443 ug/l
RT: 2.605 min Scan# 142
Delta R.T. 0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

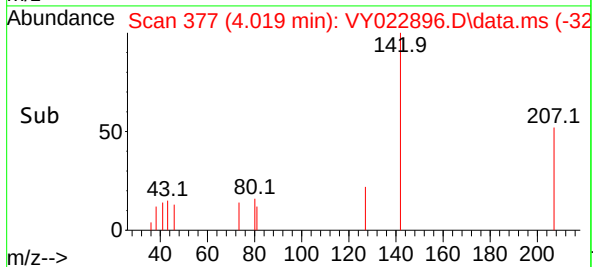
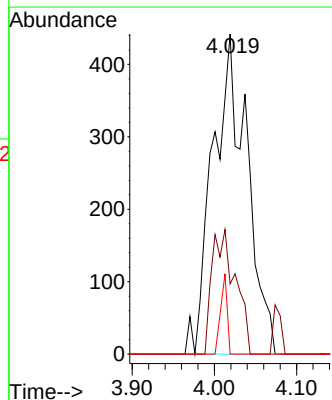
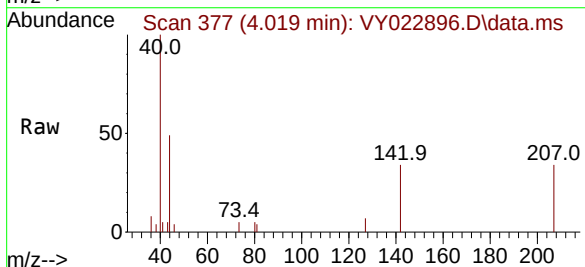
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

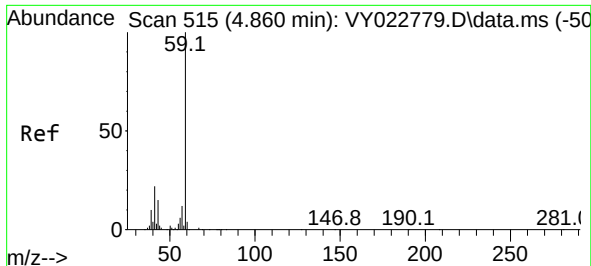
Tgt Ion: 94 Resp: 2173
Ion Ratio Lower Upper
94 100
96 97.3 74.0 111.0



#10
Methyl Iodide
Concen: 3.717 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 142 Resp: 1274
Ion Ratio Lower Upper
142 100
127 26.8 37.1 55.7#
141 4.8 11.4 17.2#





#11

Tert butyl alcohol

Concen: 3.888 ug/l

RT: 4.873 min Scan# 51

Delta R.T. -0.012 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

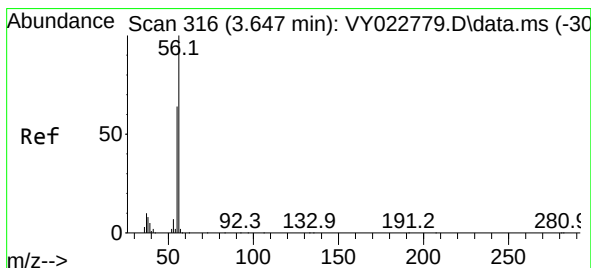
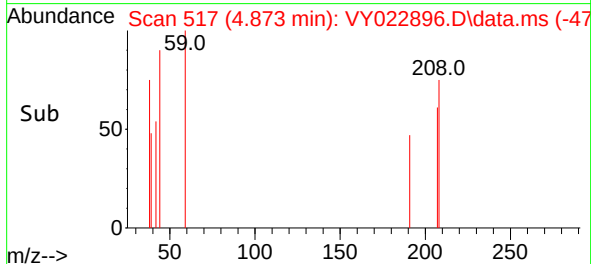
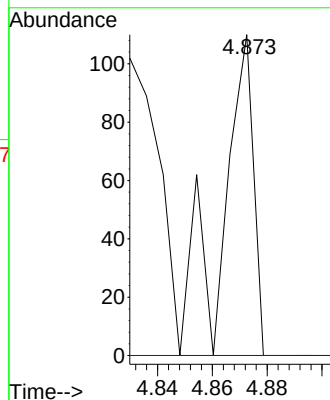
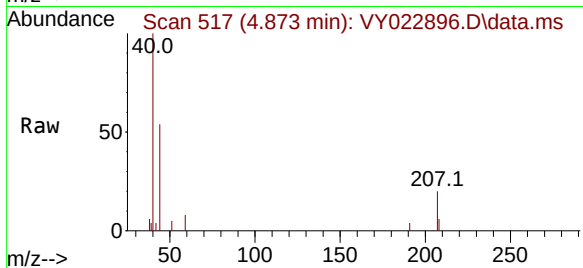
COMP-2

Tgt Ion: 59 Resp: 88

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#13

Acrolein

Concen: 1.434 ug/l

RT: 3.629 min Scan# 313

Delta R.T. -0.030 min

Lab File: VY022896.D

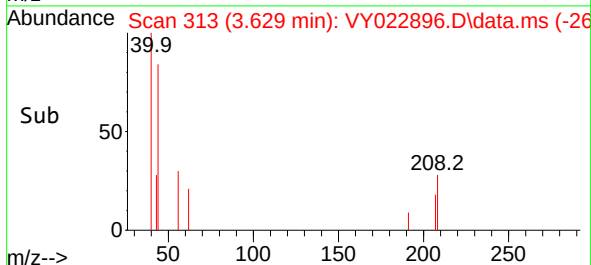
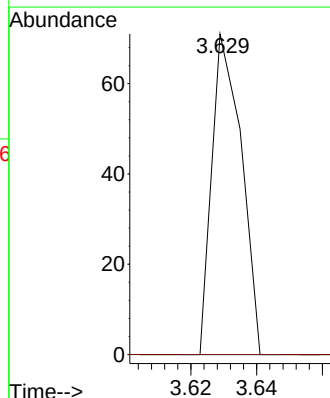
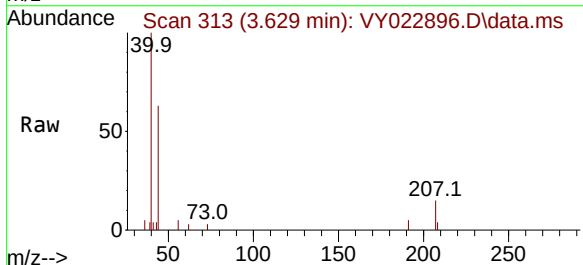
Acq: 01 Jul 2025 12:57

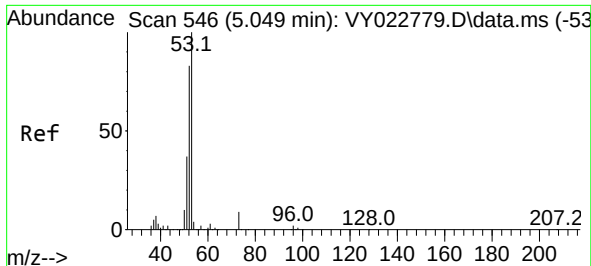
Tgt Ion: 56 Resp: 44

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.6#

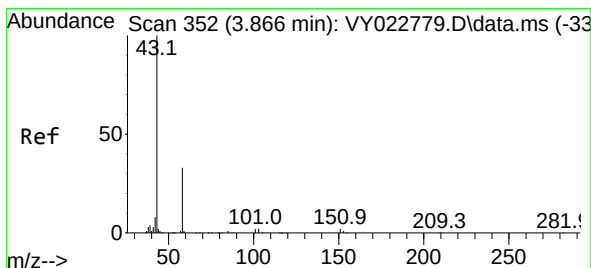
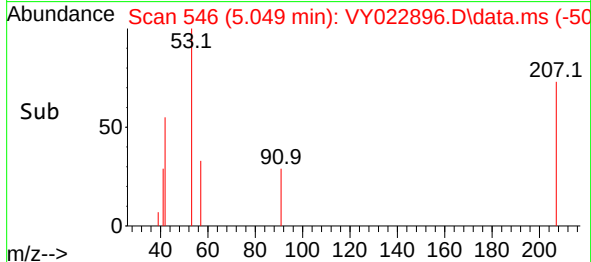
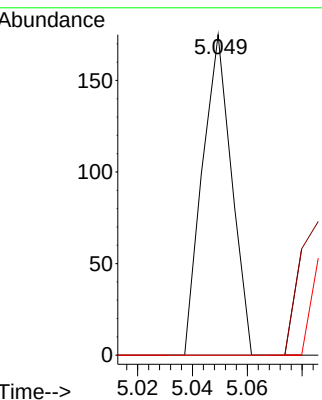
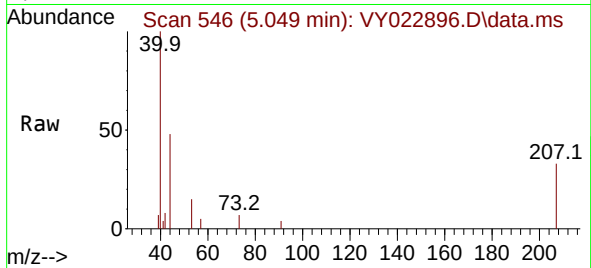




#15
Acrylonitrile
Concen: 1.817 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.018 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

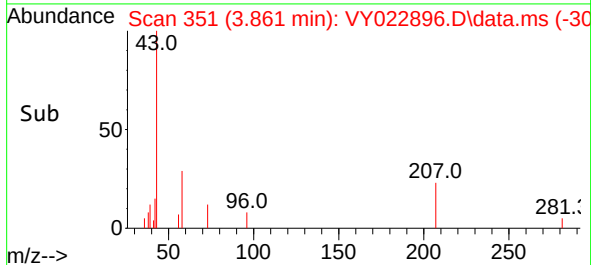
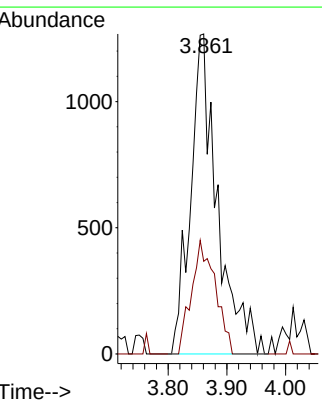
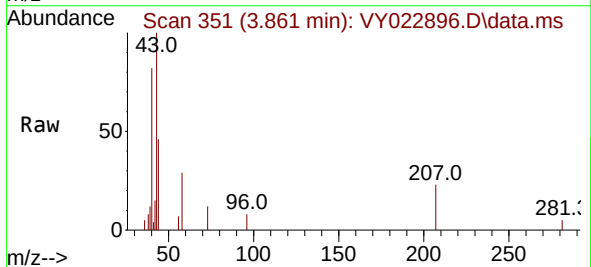
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

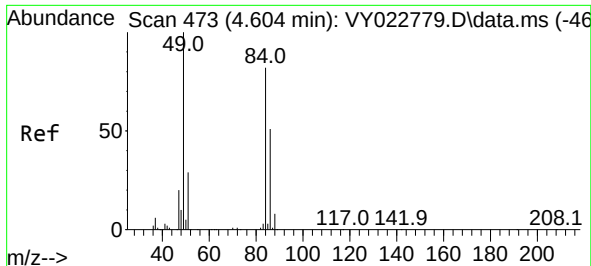
Tgt Ion: 53 Resp: 129
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 0.0 30.1 45.1#



#16
Acetone
Concen: 62.731 ug/l
RT: 3.861 min Scan# 351
Delta R.T. -0.018 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 43 Resp: 4036
Ion Ratio Lower Upper
43 100
58 28.9 24.0 36.0

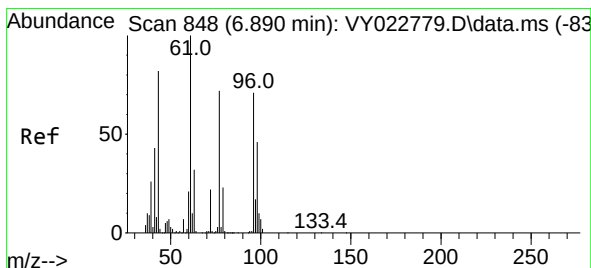
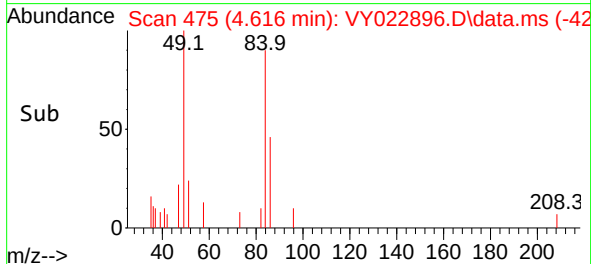
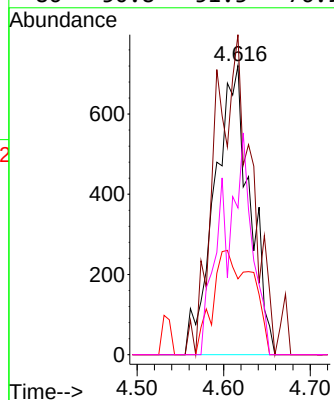
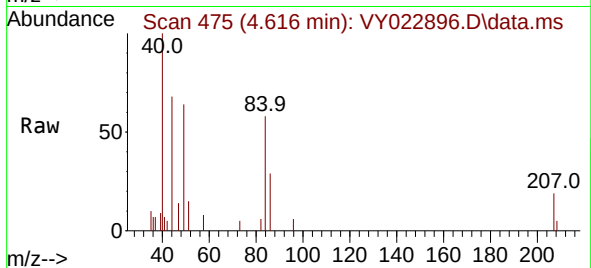




#20
Methylene Chloride
Concen: 5.023 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

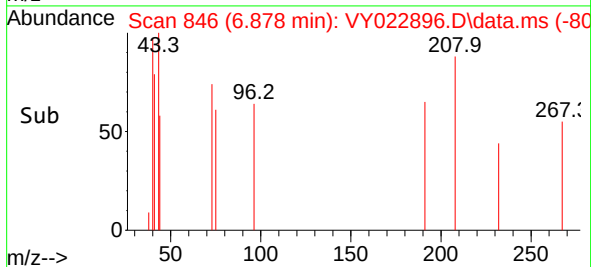
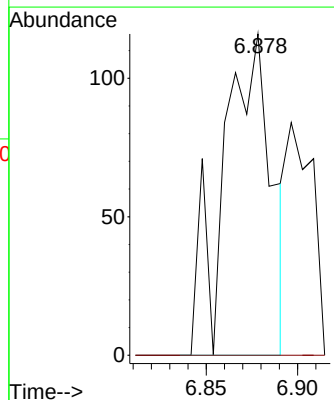
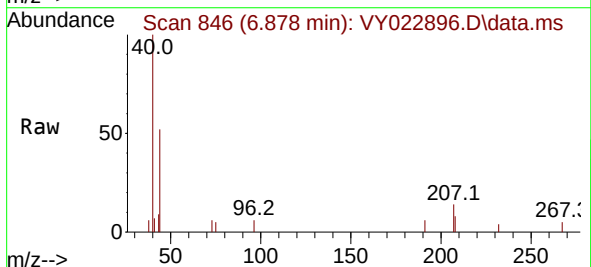
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

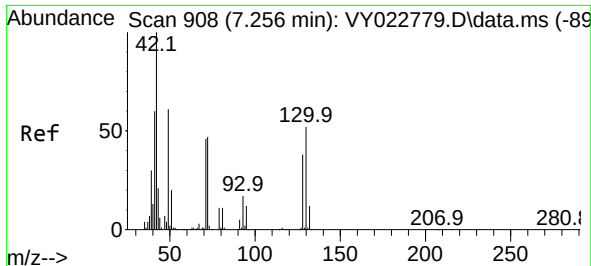
Tgt Ion: 84 Resp: 2041
Ion Ratio Lower Upper
84 100
49 110.7 101.9 152.9
51 26.2 29.8 44.8#
86 50.8 51.3 76.9#



#25
2-Butanone
Concen: 2.275 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.024 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 43 Resp: 213
Ion Ratio Lower Upper
43 100
72 0.0 22.9 34.3#





#29

Tetrahydrofuran

Concen: 1.065 ug/l

RT: 7.275 min Scan# 911

Delta R.T. 0.006 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

COMP-2

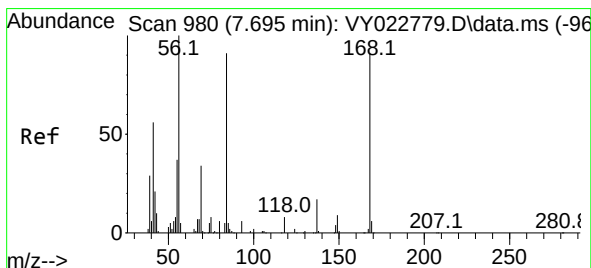
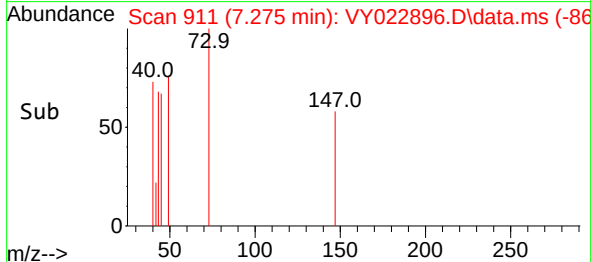
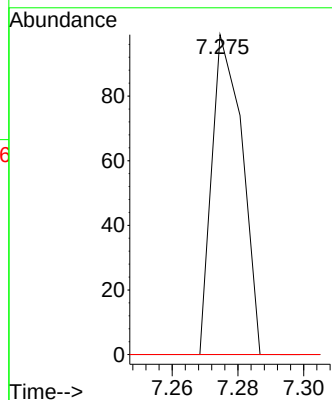
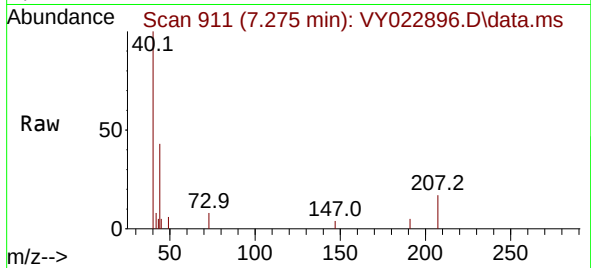
Tgt Ion: 42 Resp: 63

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.2#

71 0.0 34.2 51.2#



#31

Cyclohexane

Concen: 1.457 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.006 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

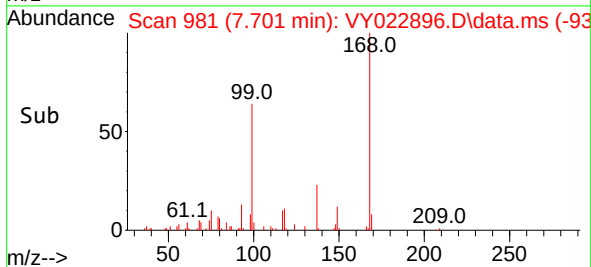
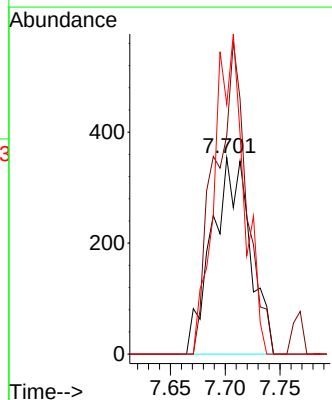
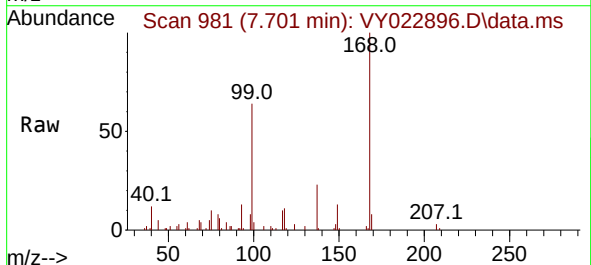
Tgt Ion: 56 Resp: 852

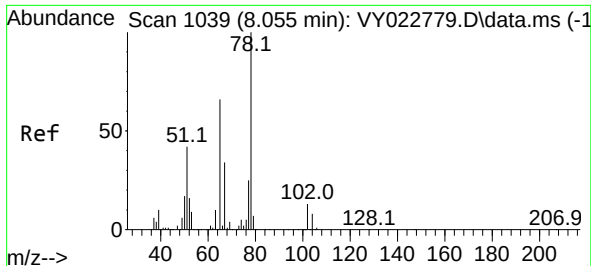
Ion Ratio Lower Upper

56 100

69 111.3 27.0 40.6#

84 127.1 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 36.745 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

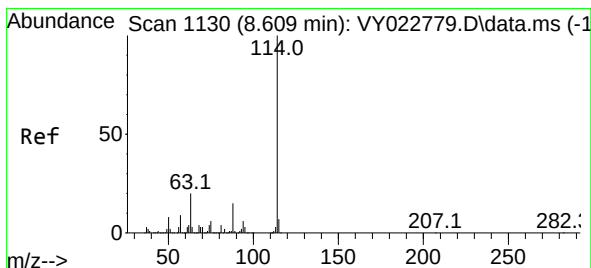
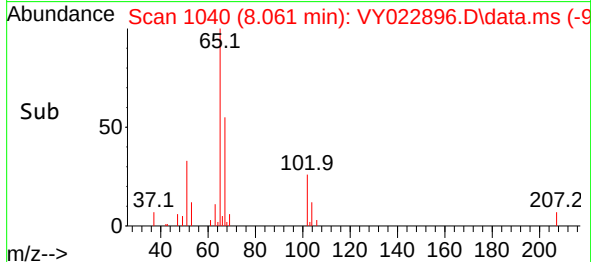
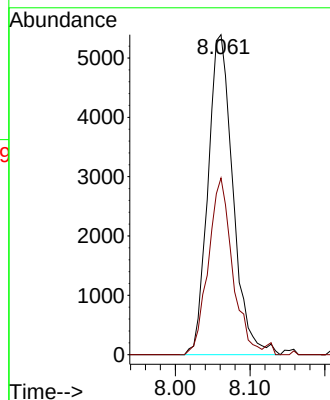
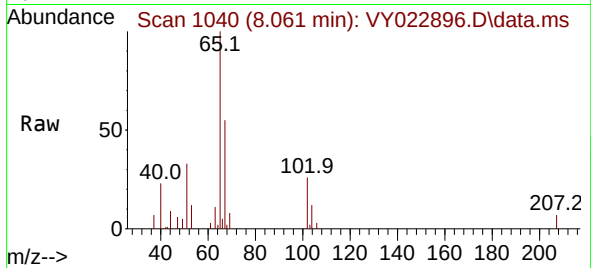
COMP-2

Tgt Ion: 65 Resp: 12508

Ion Ratio Lower Upper

65 100

67 53.5 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

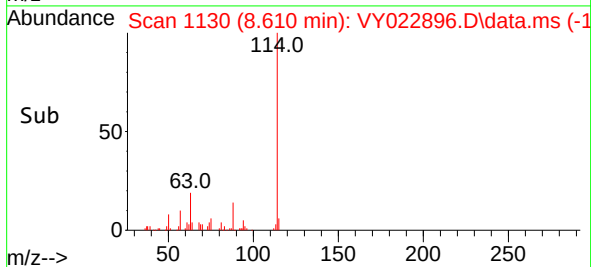
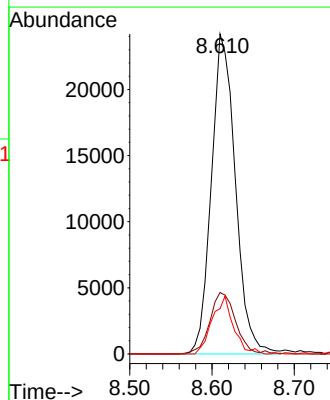
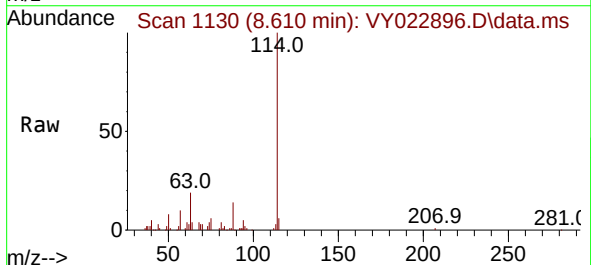
Tgt Ion: 114 Resp: 49087

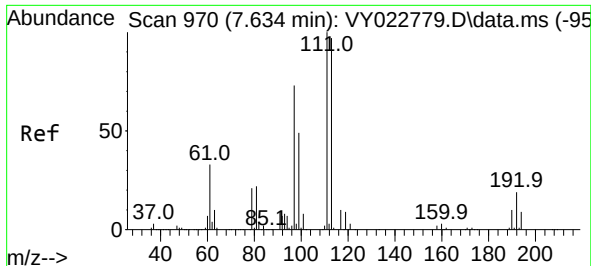
Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.8

88 14.2 0.0 27.8

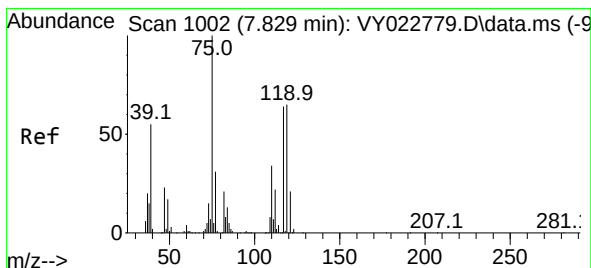
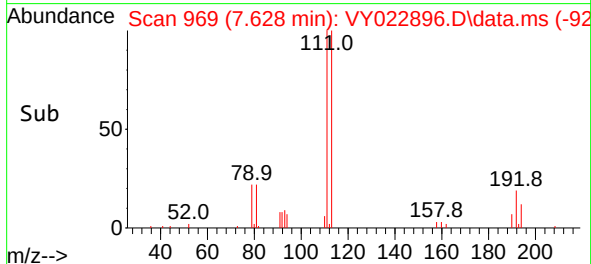
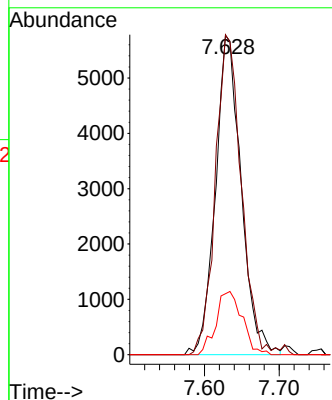
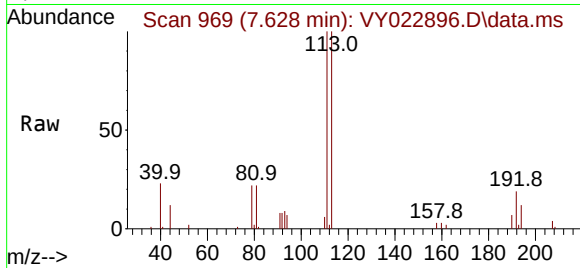




#35
Dibromofluoromethane
Concen: 46.207 ug/l
RT: 7.628 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

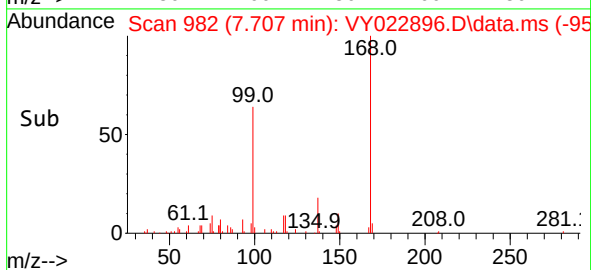
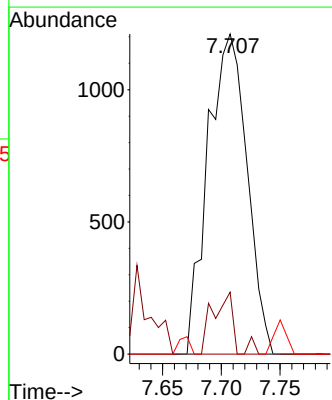
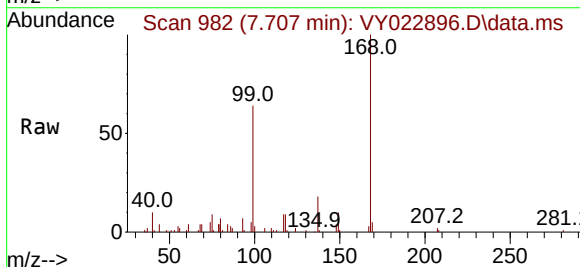
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

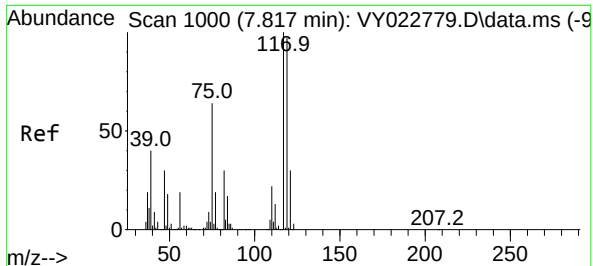
Tgt Ion:113 Resp: 13794
Ion Ratio Lower Upper
113 100
111 100.9 81.1 121.7
192 20.3 14.2 21.2



#36
1,1-Dichloropropene
Concen: 6.199 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.134 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 75 Resp: 2805
Ion Ratio Lower Upper
75 100
110 9.7 16.9 50.7#
77 0.0 24.8 37.2#

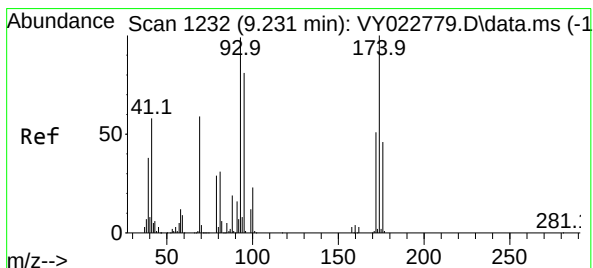
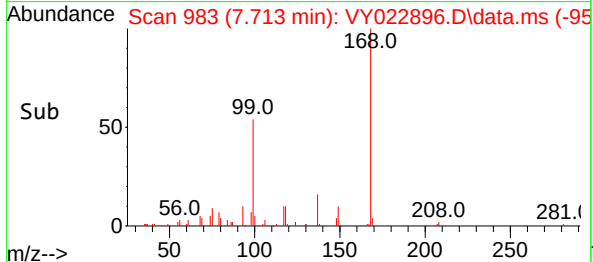
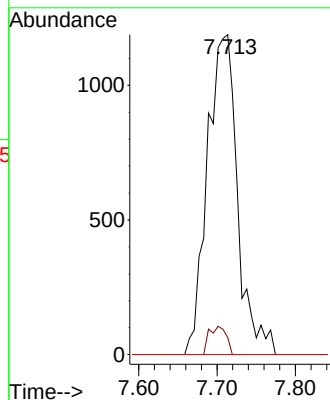
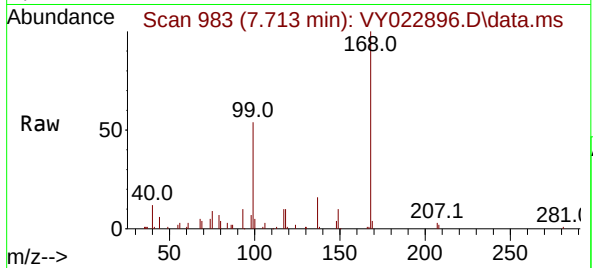




#38
Carbon Tetrachloride
Concen: 6.684 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

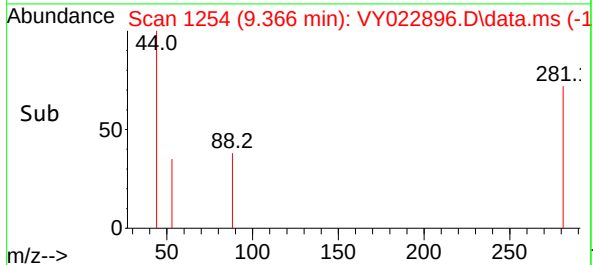
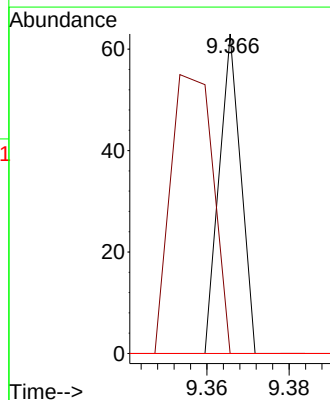
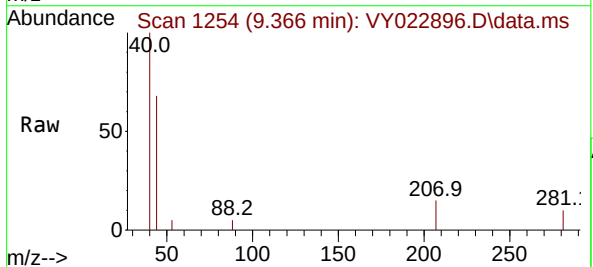
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

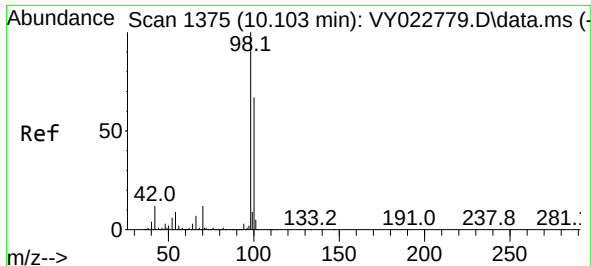
Tgt Ion:117 Resp: 3191
Ion Ratio Lower Upper
117 100
119 5.4 75.0 112.6#
121 0.0 25.0 37.4#



#49
1,4-Dioxane
Concen: 10.532 ug/l
RT: 9.366 min Scan# 1254
Delta R.T. 0.122 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 173.9 25.4 38.2#
58 0.0 54.9 82.3#

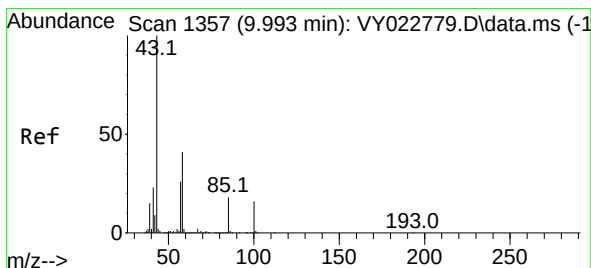
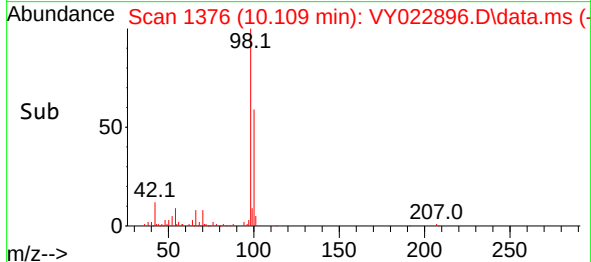
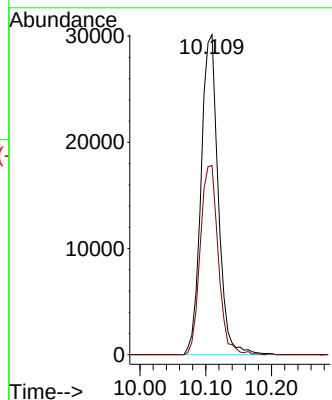
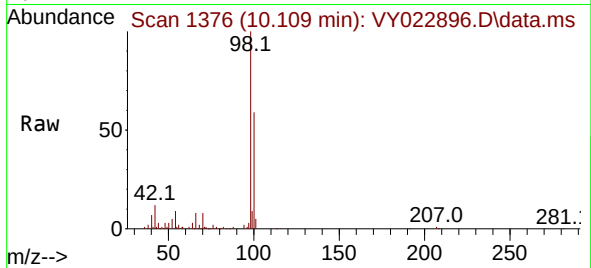




#50
Toluene-d8
Concen: 46.152 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

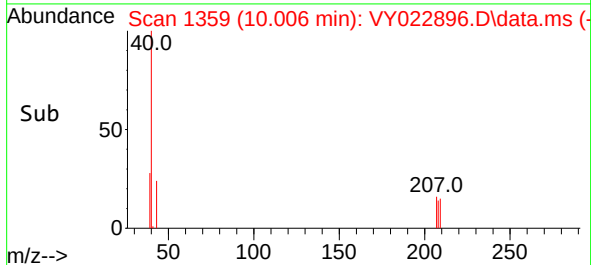
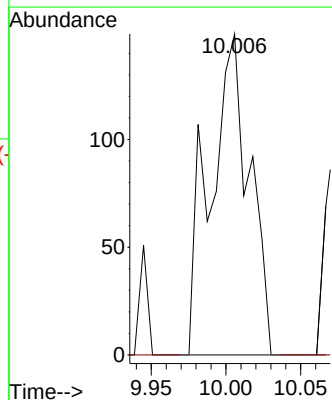
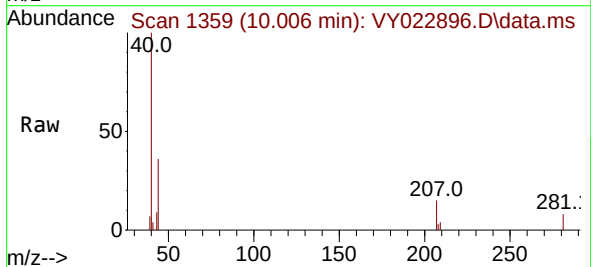
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

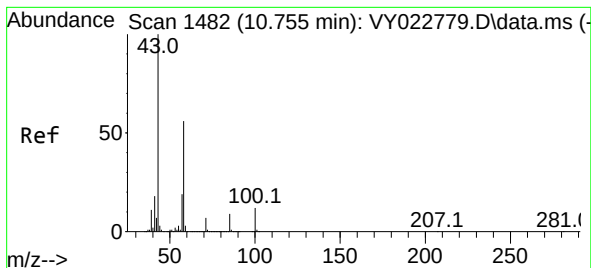
Tgt Ion: 98 Resp: 54671
Ion Ratio Lower Upper
98 100
100 62.0 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.324 ug/l
RT: 10.006 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 43 Resp: 273
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#

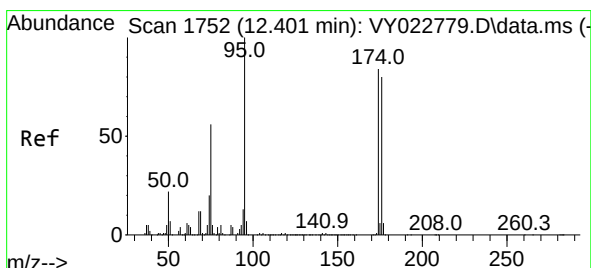
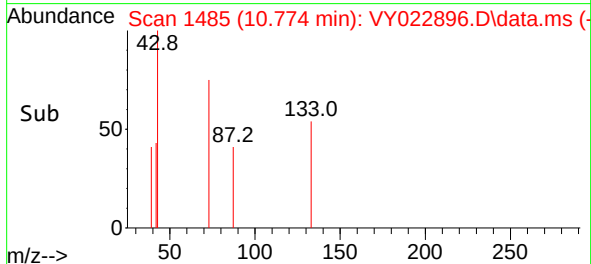
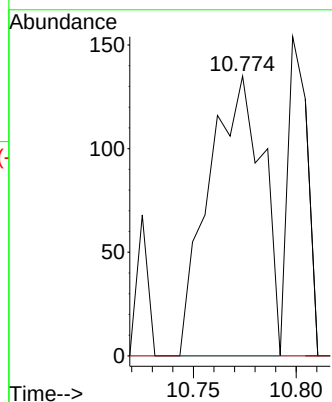
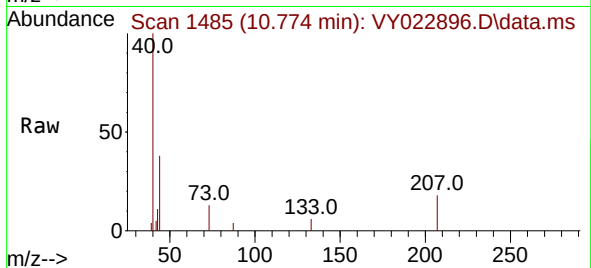




#59
2-Hexanone
Concen: 1.755 ug/l
RT: 10.774 min Scan# 1485
Delta R.T. 0.012 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

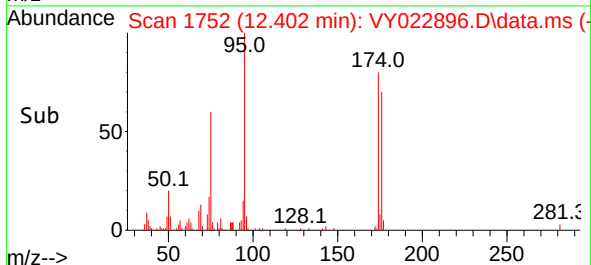
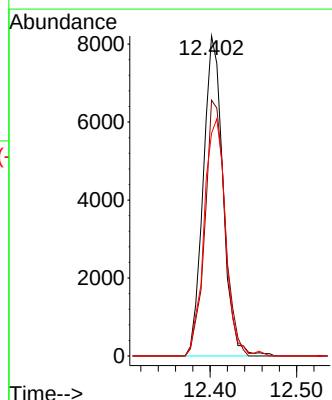
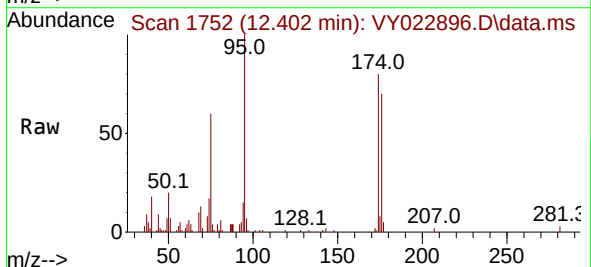
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

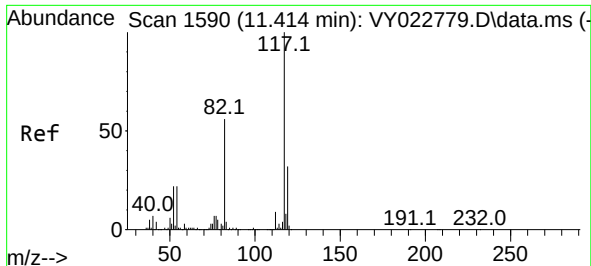
Tgt Ion: 43 Resp: 246
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 34.180 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 95 Resp: 13016
Ion Ratio Lower Upper
95 100
174 81.0 0.0 170.0
176 79.8 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

COMP-2

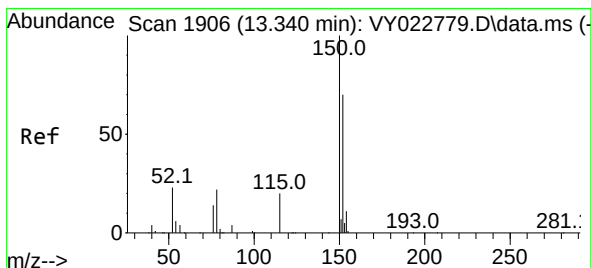
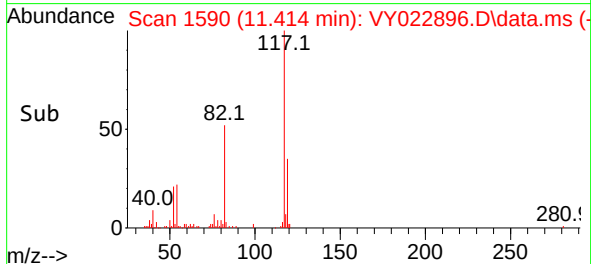
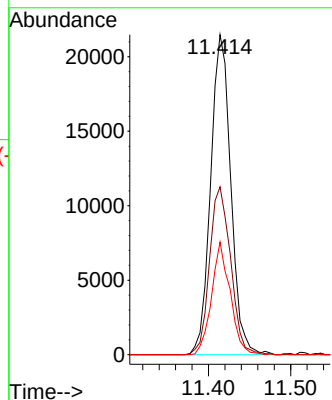
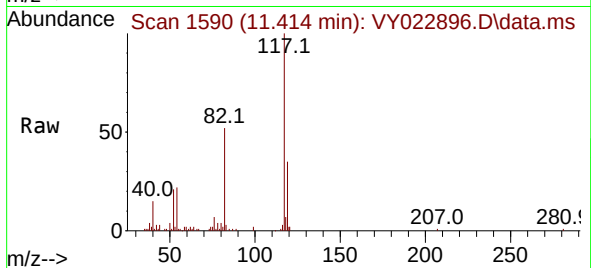
Tgt Ion:117 Resp: 36600

Ion Ratio Lower Upper

117 100

82 52.4 44.6 66.8

119 35.2 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022896.D

Acq: 01 Jul 2025 12:57

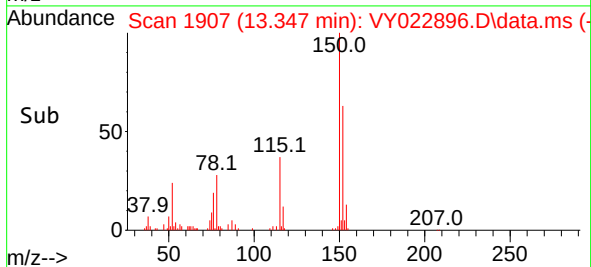
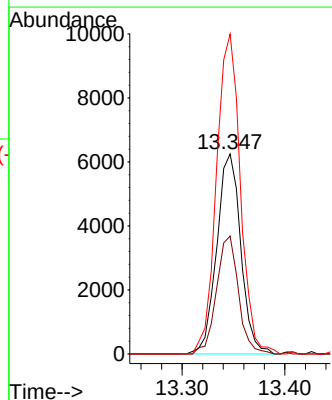
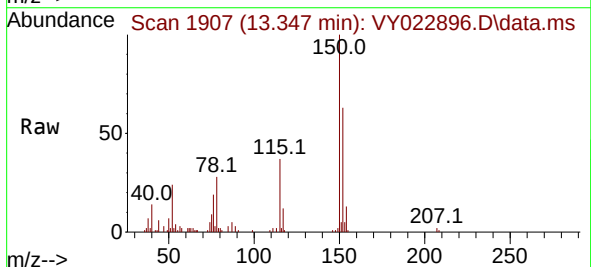
Tgt Ion:152 Resp: 10140

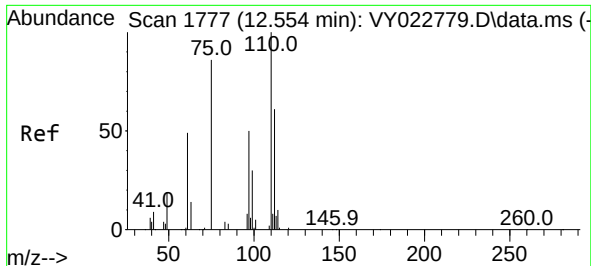
Ion Ratio Lower Upper

152 100

115 53.9 28.9 86.7

150 158.7 0.0 349.6

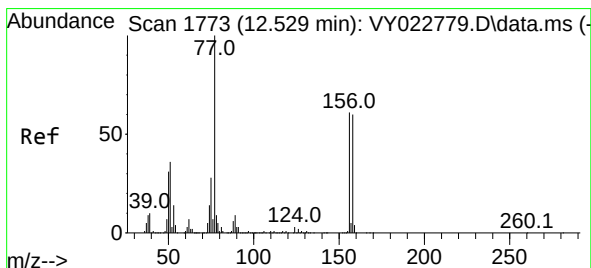
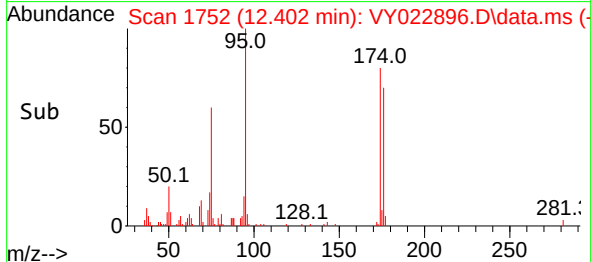
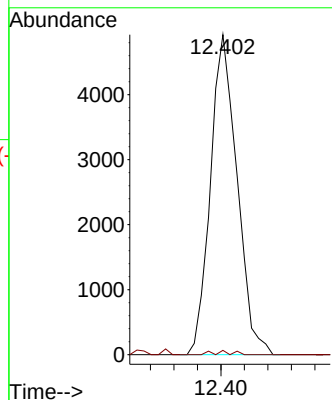
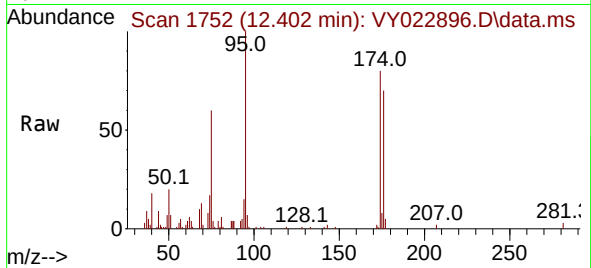




#76
1,2,3-Trichloropropane
Concen: 74.855 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

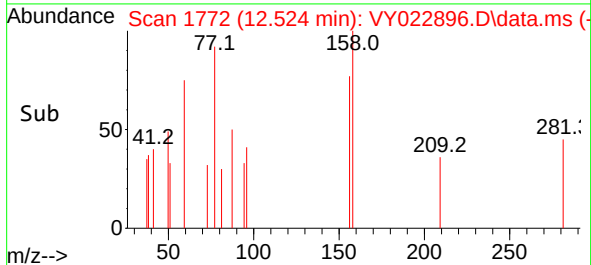
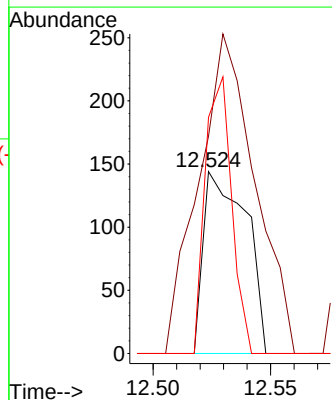
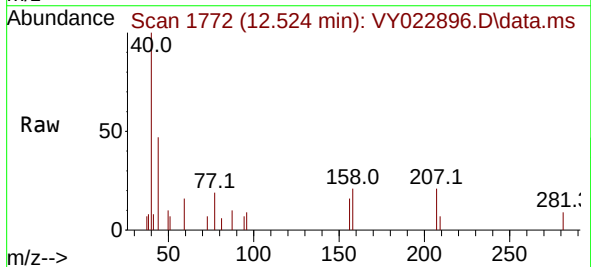
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

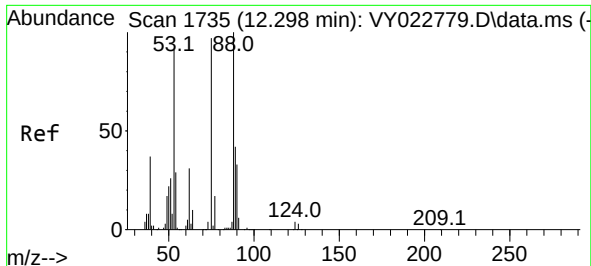
Tgt Ion: 75 Resp: 7749
Ion Ratio Lower Upper
75 100
77 0.6 0.0 0.0#



#77
Bromobenzene
Concen: 1.065 ug/l
RT: 12.524 min Scan# 1772
Delta R.T. -0.012 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion: 156 Resp: 181
Ion Ratio Lower Upper
156 100
77 232.6 94.0 282.1
158 94.5 48.2 144.6

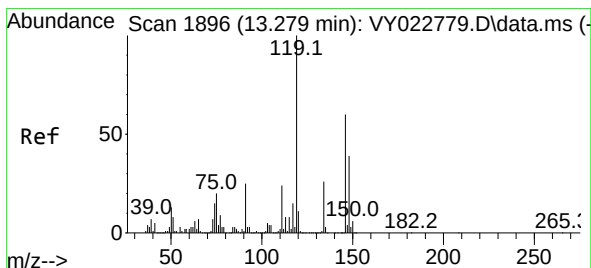
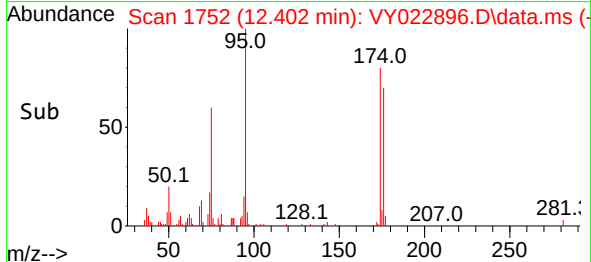
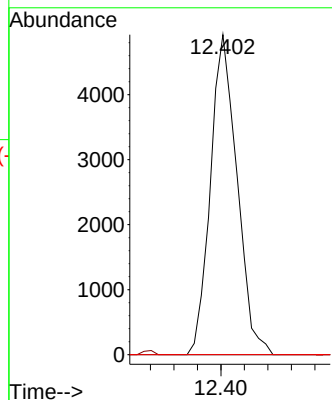
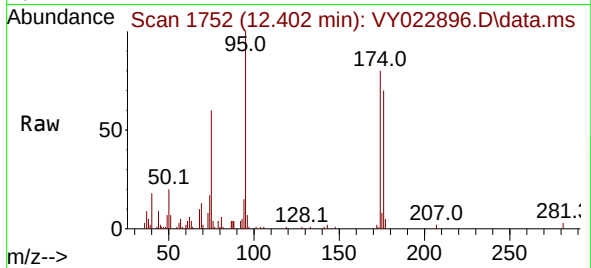




#81
 trans-1,4-Dichloro-2-butene
 Concen: 189.112 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.098 min
 Lab File: VY022896.D
 Acq: 01 Jul 2025 12:57

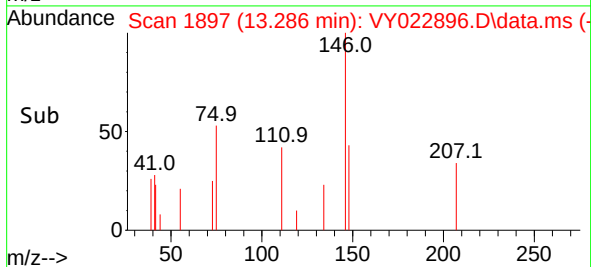
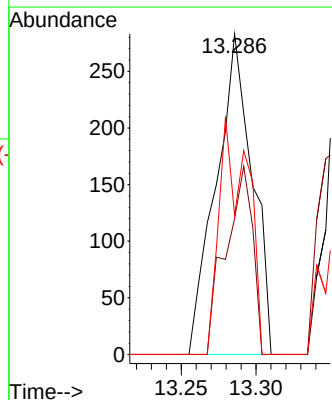
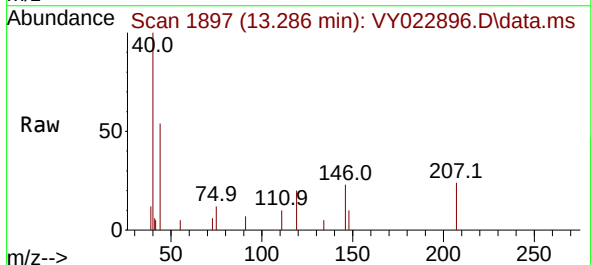
Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-2

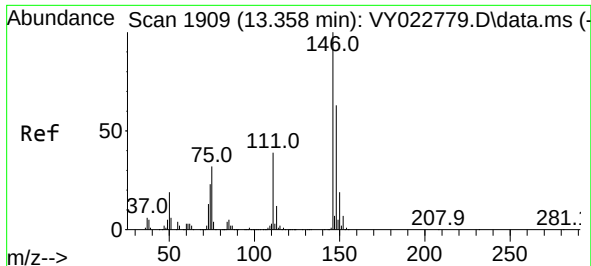
Tgt Ion: 75 Resp: 7749
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 35.7 53.5#



#87
 1,3-Dichlorobenzene
 Concen: 1.391 ug/l
 RT: 13.286 min Scan# 1897
 Delta R.T. -0.006 min
 Lab File: VY022896.D
 Acq: 01 Jul 2025 12:57

Tgt Ion:146 Resp: 475
 Ion Ratio Lower Upper
 146 100
 111 43.8 20.1 60.2
 148 58.3 32.1 96.3

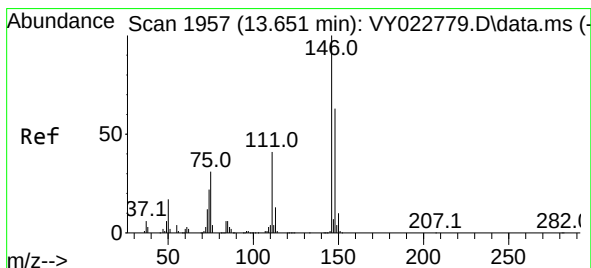
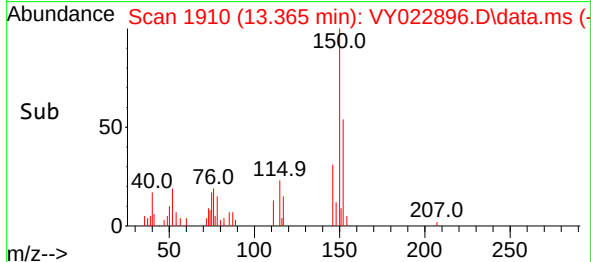
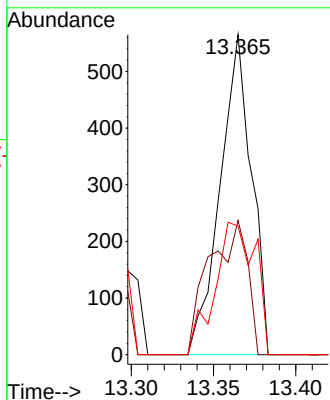
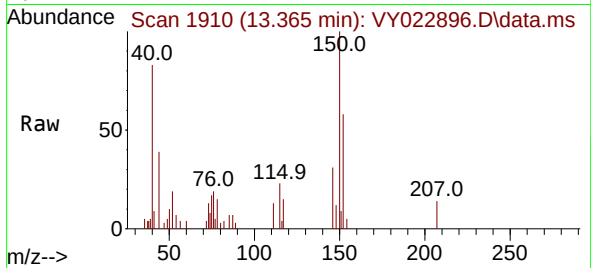




#88
1,4-Dichlorobenzene
Concen: 2.206 ug/l
RT: 13.365 min Scan# 1909
Delta R.T. -0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

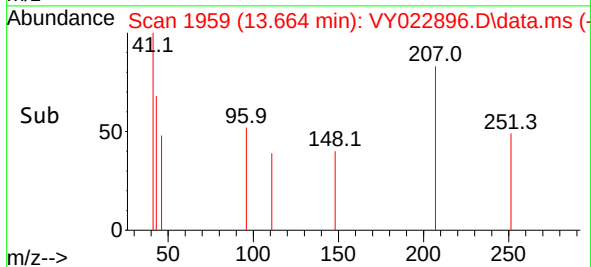
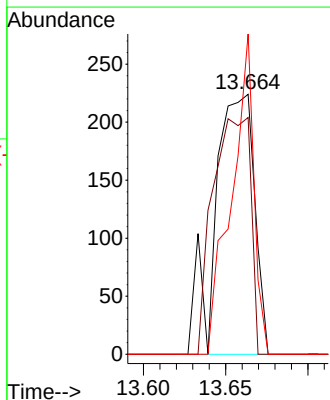
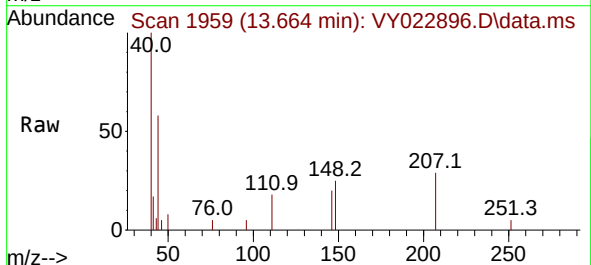
Instrument :
MSVOA_Y
ClientSampleId :
COMP-2

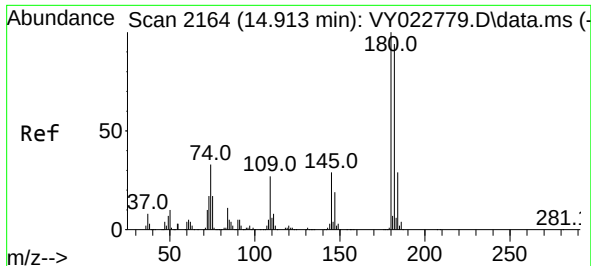
Tgt Ion:146 Resp: 748
Ion Ratio Lower Upper
146 100
111 50.8 19.4 58.2
148 53.2 31.6 94.8



#91
1,2-Dichlorobenzene
Concen: 1.243 ug/l
RT: 13.664 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VY022896.D
Acq: 01 Jul 2025 12:57

Tgt Ion:146 Resp: 374
Ion Ratio Lower Upper
146 100
111 87.2 20.2 60.6#
148 70.1 31.4 94.0

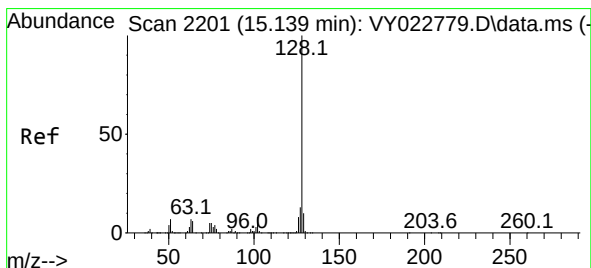
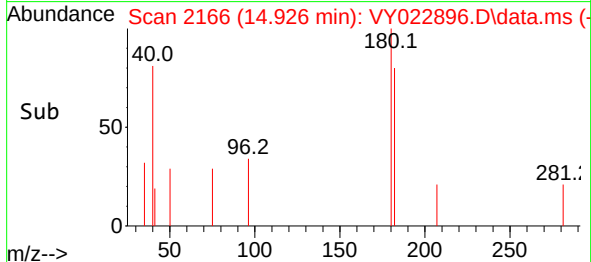
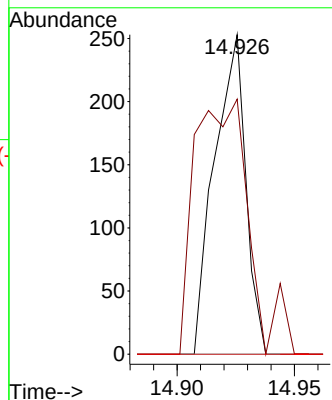
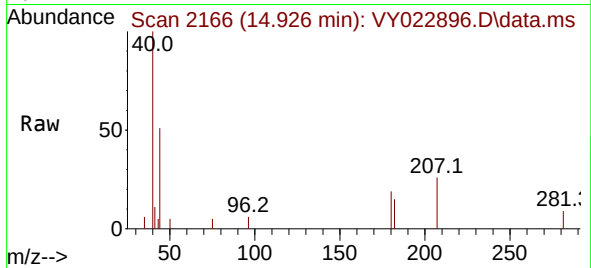




#93
 1,2,4-Trichlorobenzene
 Concen: 1.378 ug/l
 RT: 14.926 min Scan# 2166
 Delta R.T. 0.006 min
 Lab File: VY022896.D
 Acq: 01 Jul 2025 12:57

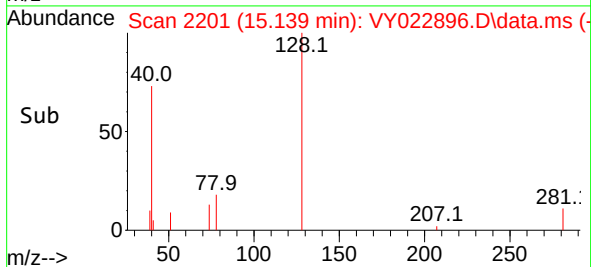
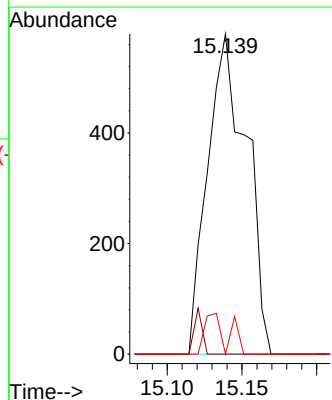
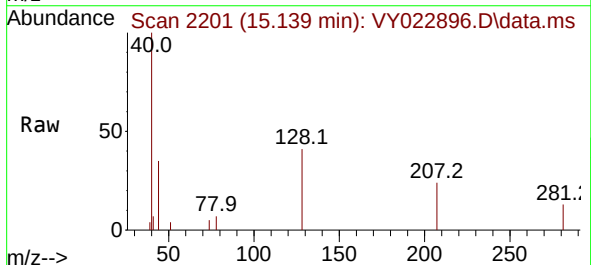
Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-2

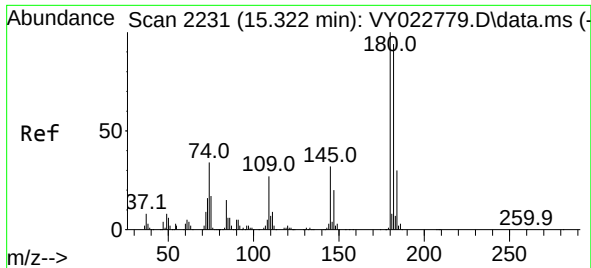
Tgt Ion:180 Resp: 234
 Ion Ratio Lower Upper
 180 100
 182 138.9 48.4 145.3
 145 0.0 15.5 46.5#



#95
 Naphthalene
 Concen: 3.399 ug/l
 RT: 15.139 min Scan# 2201
 Delta R.T. -0.006 min
 Lab File: VY022896.D
 Acq: 01 Jul 2025 12:57

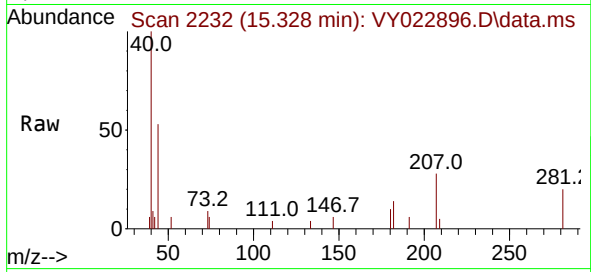
Tgt Ion:128 Resp: 1044
 Ion Ratio Lower Upper
 128 100
 127 2.9 10.4 15.6#
 129 7.4 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.519 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY022896.D
 Acq: 01 Jul 2025 12:57

Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-2



Tgt Ion:	180	Resp:	223
Ion	Ratio	Lower	Upper
180	100		
182	147.5	47.1	141.3#
145	22.9	15.2	45.6

