

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022090.D
 Acq On : 30 Apr 2025 18:16
 Operator : SY/MD
 Sample : Q1901-05
 Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB02

Quant Time: May 01 01:39:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	384809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	709625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	563942	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	150773	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	176326	49.608	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.220%
35) Dibromofluoromethane	7.628	113	233310	49.766	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.540%
50) Toluene-d8	10.103	98	825206	46.689	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	93.380%
62) 4-Bromofluorobenzene	12.402	95	196123	32.962	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	65.920%

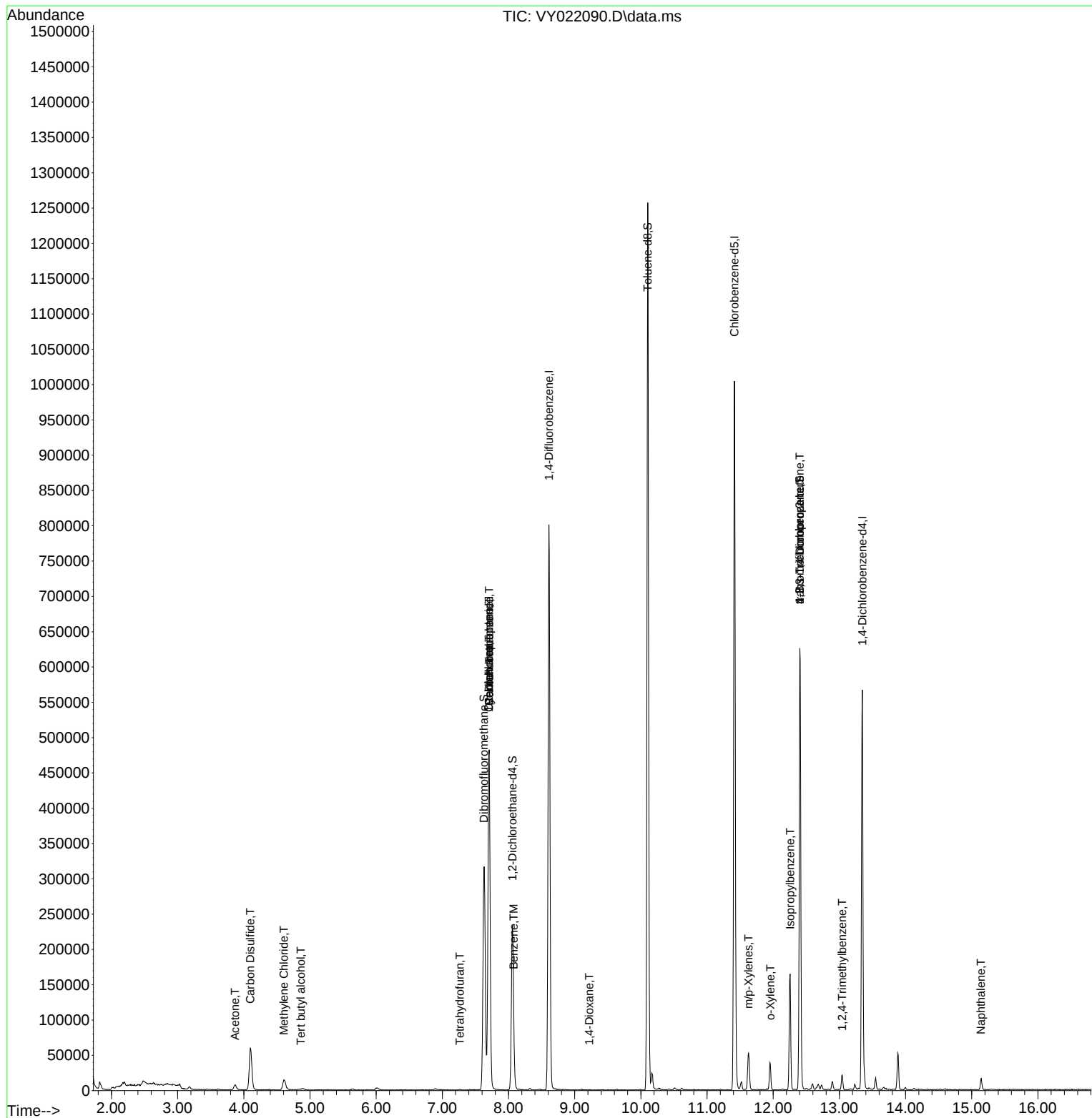
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.860	59	1935	9.916	ug/l #	79
16) Acetone	3.867	43	11562	3.818	ug/l #	87
17) Carbon Disulfide	4.098	76	126155	10.343	ug/l	98
20) Methylene Chloride	4.604	84	11235	2.500	ug/l	90
29) Tetrahydrofuran	7.262	42	534	1.015	ug/l #	49
31) Cyclohexane	7.701	56	7854	1.337	ug/l #	13
36) 1,1-Dichloropropene	7.701	75	27085	4.301	ug/l #	48
38) Carbon Tetrachloride	7.707	117	36735	4.882	ug/l #	17
40) Benzene	8.079	78	25594	1.300	ug/l	97
49) 1,4-Dioxane	9.219	88	214	7.368	ug/l #	66
68) m/p-Xylenes	11.627	106	14972	1.824	ug/l	96
69) o-Xylene	11.957	106	10754	1.421	ug/l	96
73) Isopropylbenzene	12.255	105	101940	10.120	ug/l	99
76) 1,2,3-Trichloropropane	12.402	75	95484	73.936	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	95484	178.048	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.042	105	10477	1.262	ug/l	88
95) Naphthalene	15.139	128	13711	3.230	ug/l	97

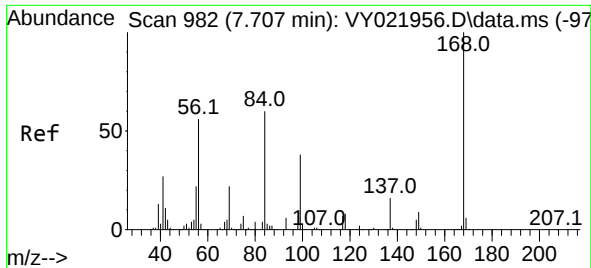
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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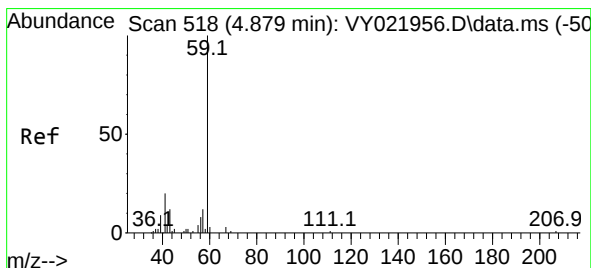
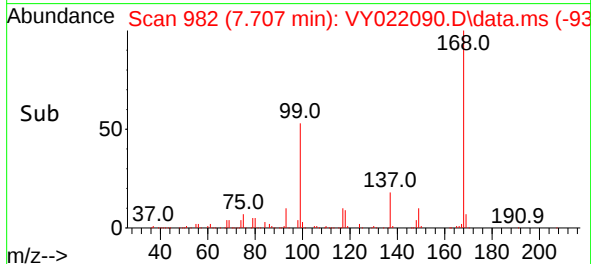
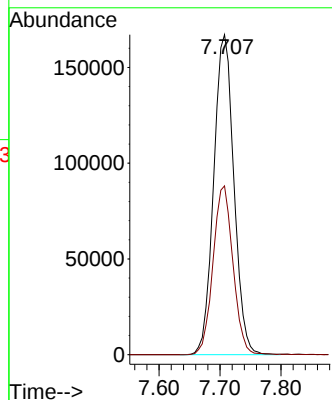
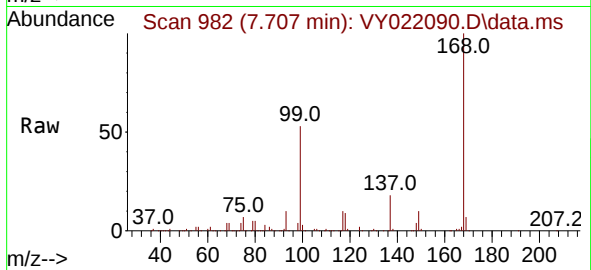




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

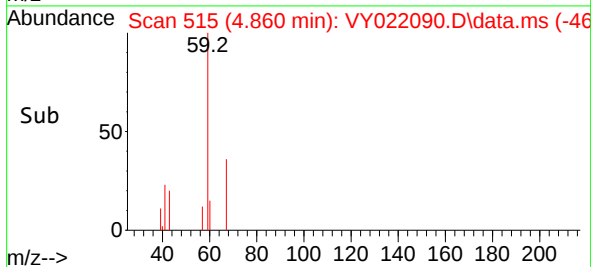
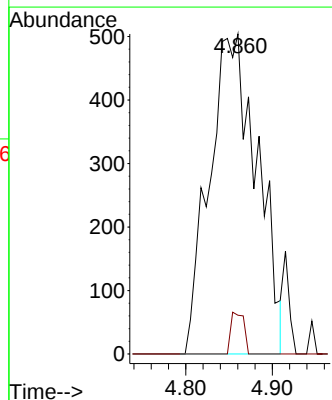
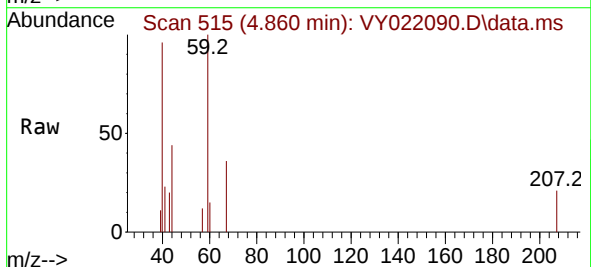
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

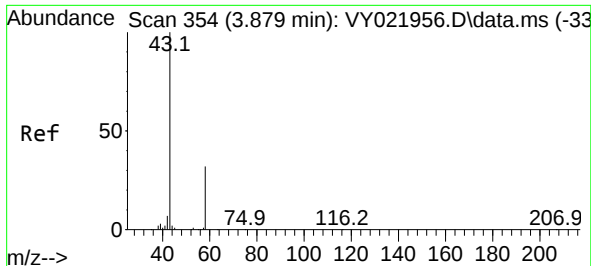
Tgt Ion:168 Resp: 384809
Ion Ratio Lower Upper
168 100
99 52.7 43.1 64.7



#11
Tert butyl alcohol
Concen: 9.916 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.018 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 59 Resp: 1935
Ion Ratio Lower Upper
59 100
57 3.5 9.3 13.9#

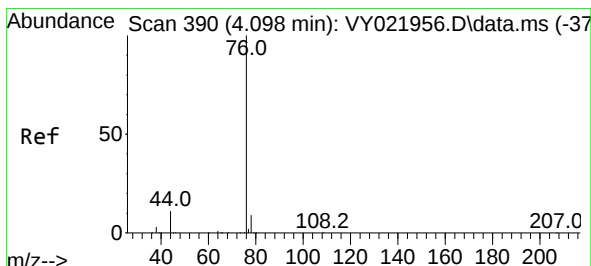
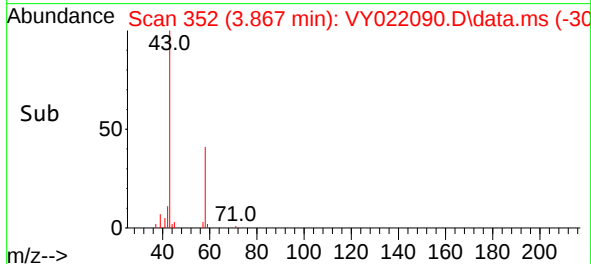
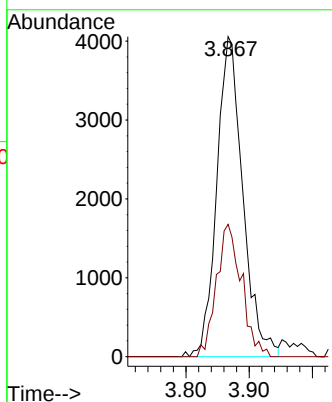
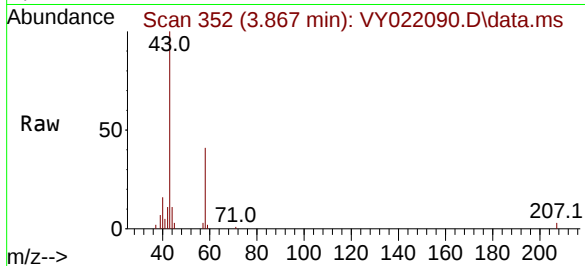




#16
Acetone
Concen: 3.818 ug/l
RT: 3.867 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

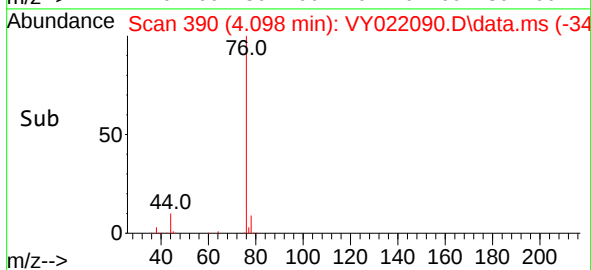
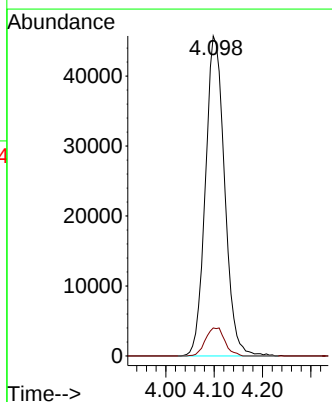
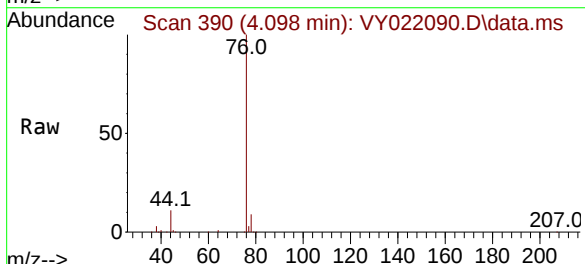
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

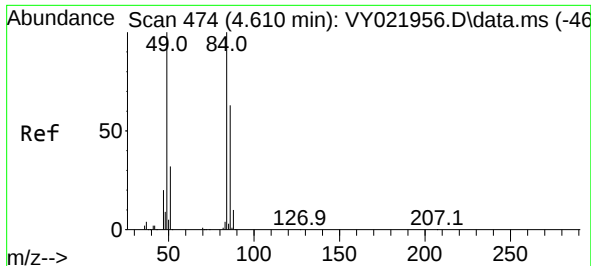
Tgt Ion: 43 Resp: 11562
Ion Ratio Lower Upper
43 100
58 41.3 27.0 40.4#



#17
Carbon Disulfide
Concen: 10.343 ug/l
RT: 4.098 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 76 Resp: 126155
Ion Ratio Lower Upper
76 100
78 8.7 7.6 11.4



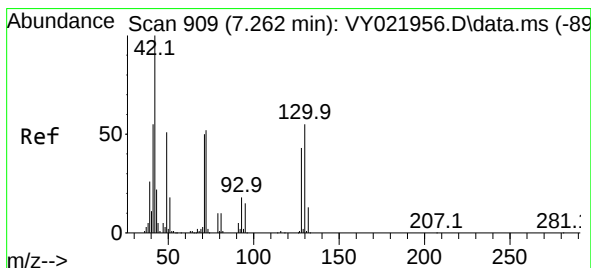
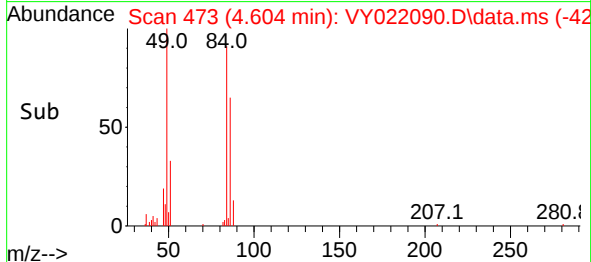
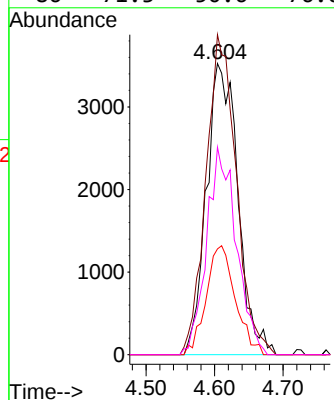
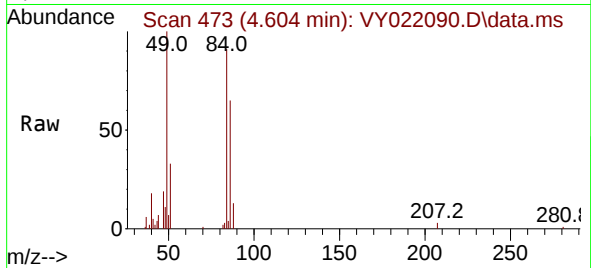


#20
Methylene Chloride
Concen: 2.500 ug/l
RT: 4.604 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion: 84 Resp: 11235

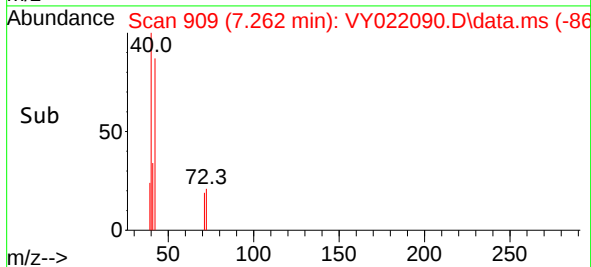
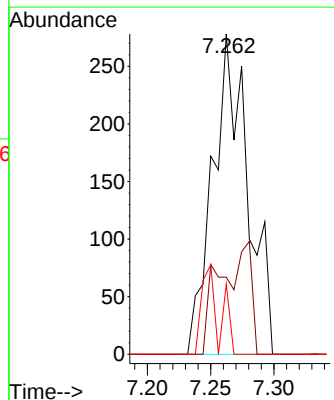
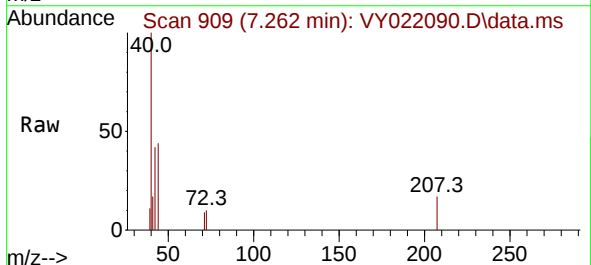
Ion	Ratio	Lower	Upper
84	100		
49	109.9	79.9	119.9
51	36.3	25.4	38.0
86	71.3	50.6	76.0

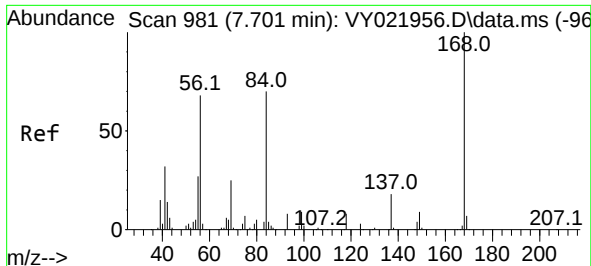


#29
Tetrahydrofuran
Concen: 1.015 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 42 Resp: 534

Ion	Ratio	Lower	Upper
42	100		
72	18.4	42.6	63.8#
71	13.9	40.6	61.0#

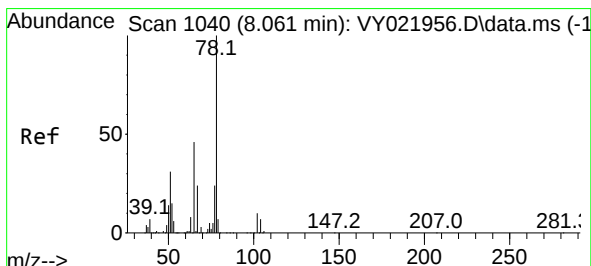
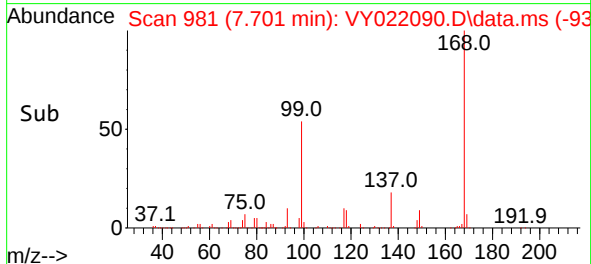
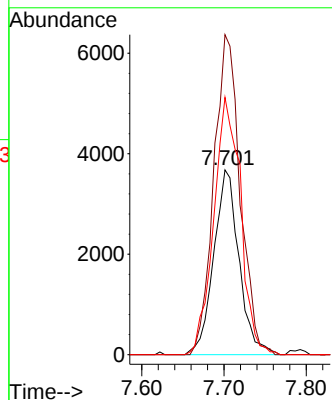
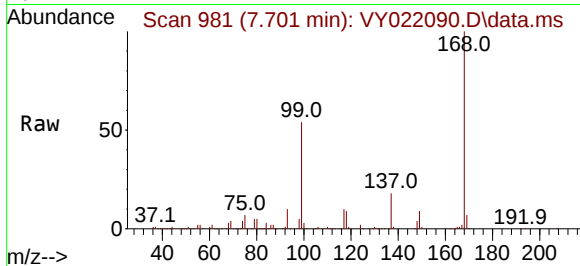




#31
Cyclohexane
Concen: 1.337 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

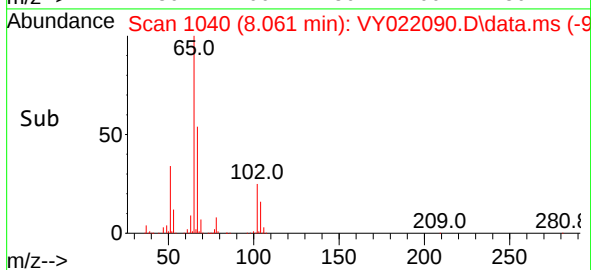
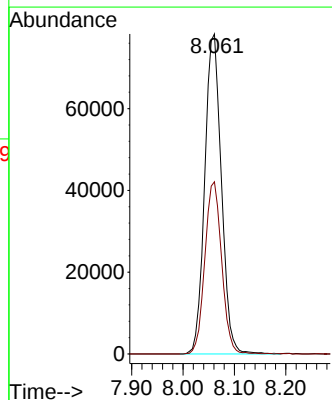
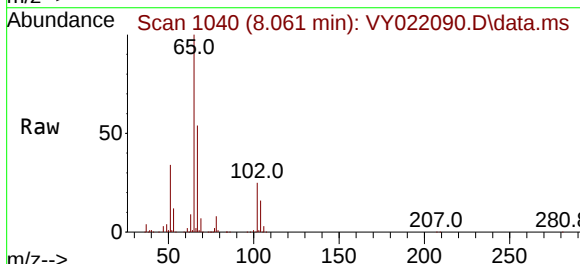
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

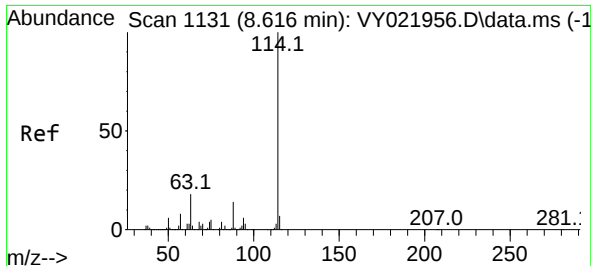
Tgt Ion: 56 Resp: 7854
Ion Ratio Lower Upper
56 100
69 173.1 29.4 44.2#
84 139.2 82.2 123.4#



#33
1,2-Dichloroethane-d4
Concen: 49.608 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 65 Resp: 176326
Ion Ratio Lower Upper
65 100
67 54.2 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB02

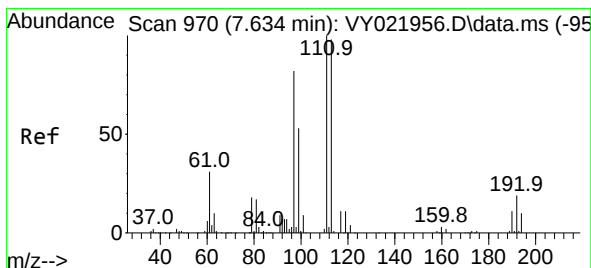
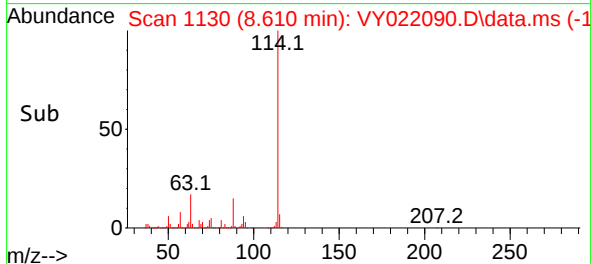
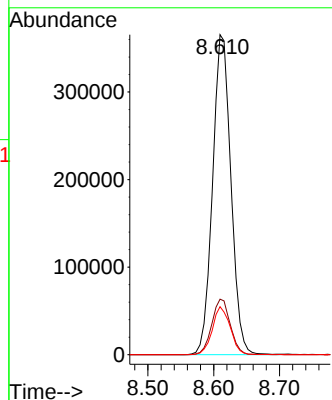
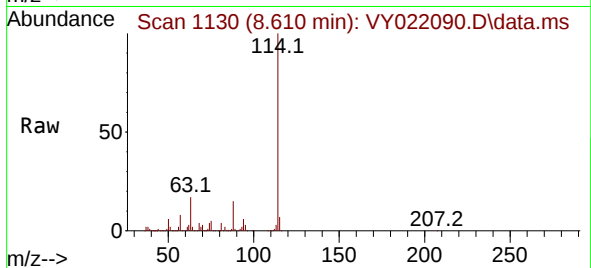
Tgt Ion:114 Resp: 709625

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.4

88 15.0 0.0 28.2



#35

Dibromofluoromethane

Concen: 49.766 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

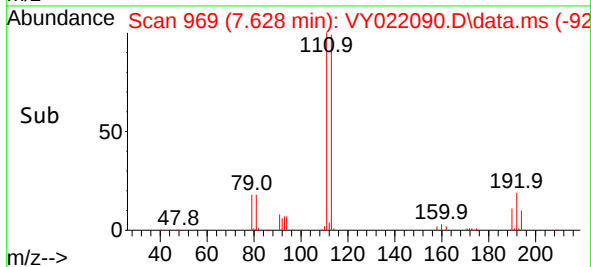
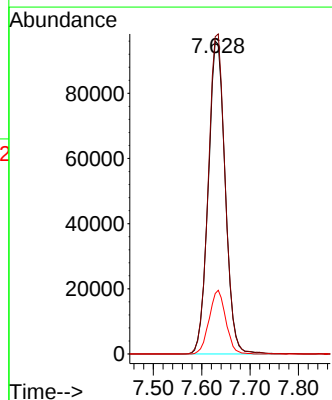
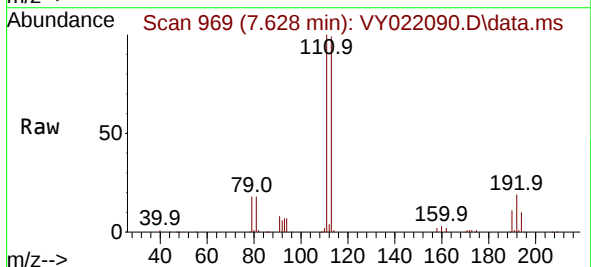
Tgt Ion:113 Resp: 233310

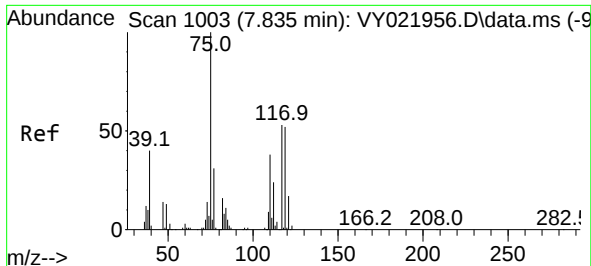
Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

192 19.9 15.6 23.4





#36

1,1-Dichloropropene

Concen: 4.301 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.134 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

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ClientSampleId :

B-170-SB02

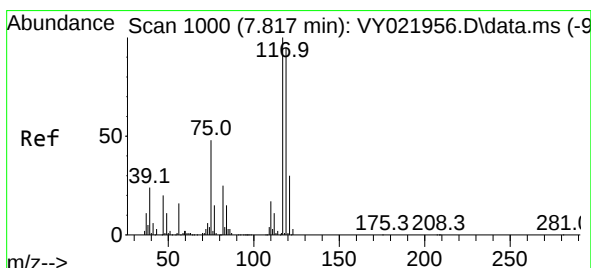
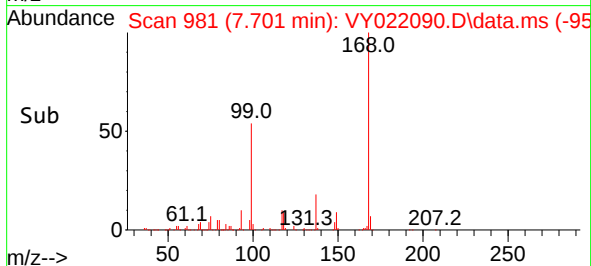
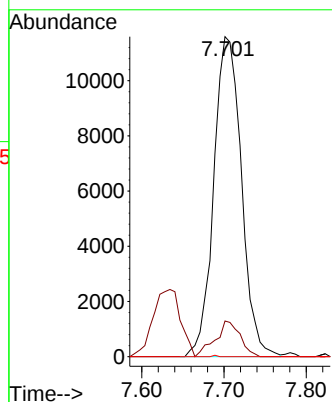
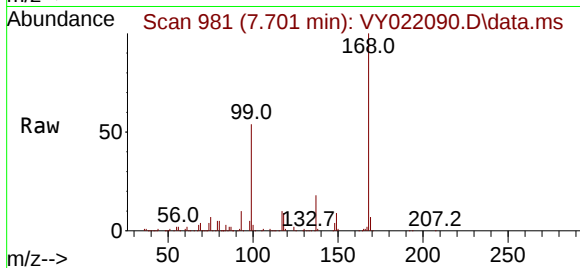
Tgt Ion: 75 Resp: 27085

Ion Ratio Lower Upper

75 100

110 10.0 19.1 57.3#

77 0.0 25.5 38.3#



#38

Carbon Tetrachloride

Concen: 4.882 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

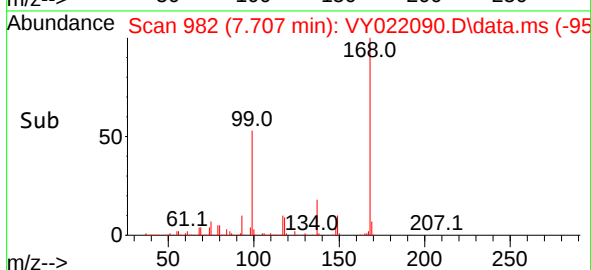
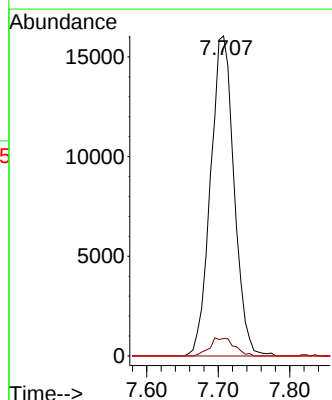
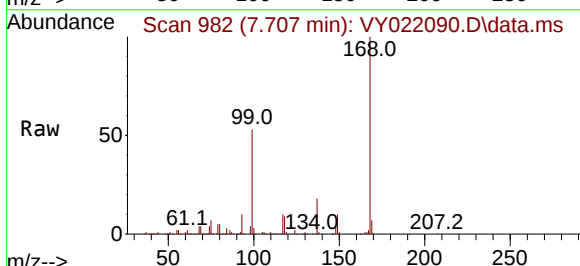
Tgt Ion: 117 Resp: 36735

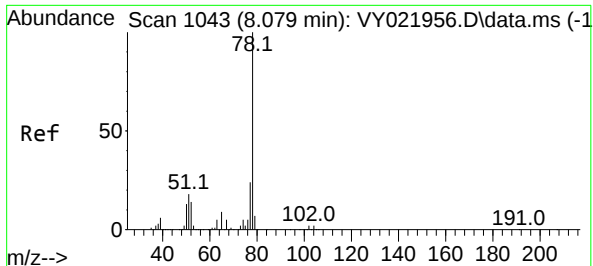
Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.4#

121 0.0 24.0 36.0#

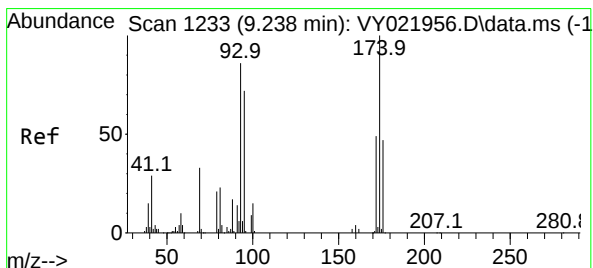
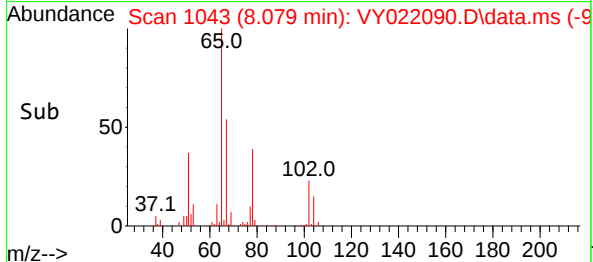
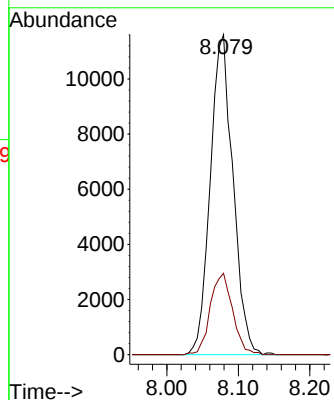
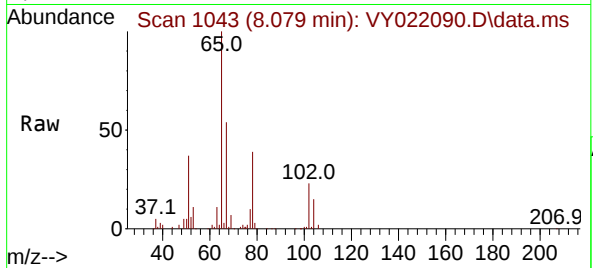




#40
Benzene
Concen: 1.300 ug/l
RT: 8.079 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

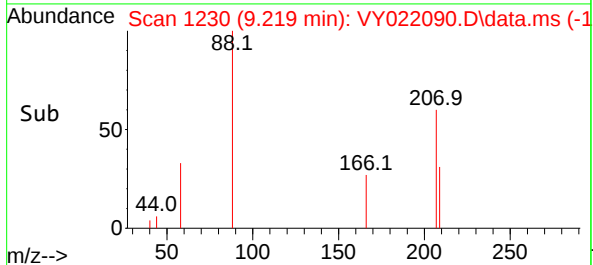
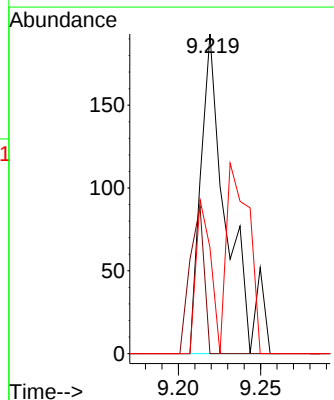
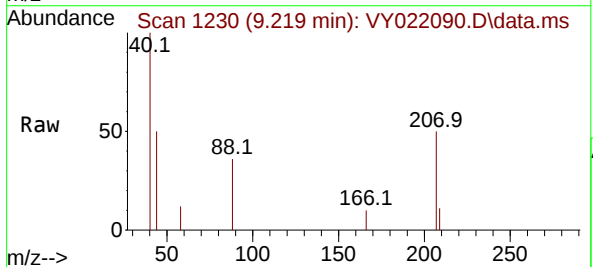
Instrument :
MSVOA_Y
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B-170-SB02

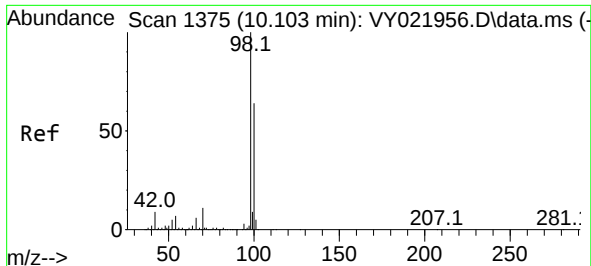
Tgt Ion: 78 Resp: 25594
Ion Ratio Lower Upper
78 100
77 25.4 19.3 28.9



#49
1,4-Dioxane
Concen: 7.368 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.018 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 88 Resp: 214
Ion Ratio Lower Upper
88 100
43 24.8 21.3 31.9
58 26.6 50.5 75.7#

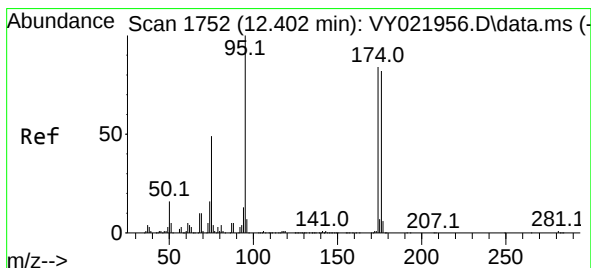
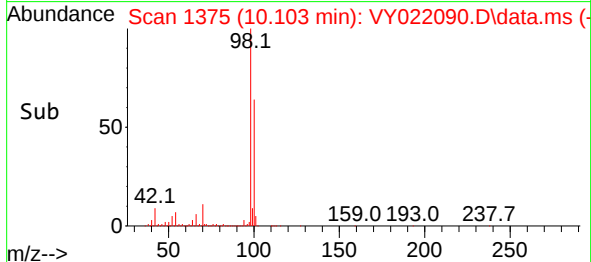
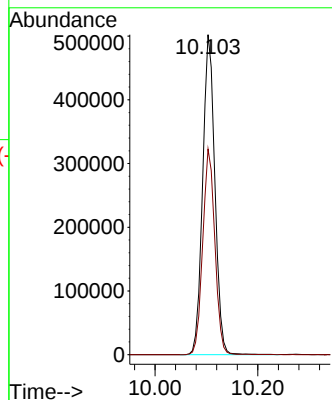
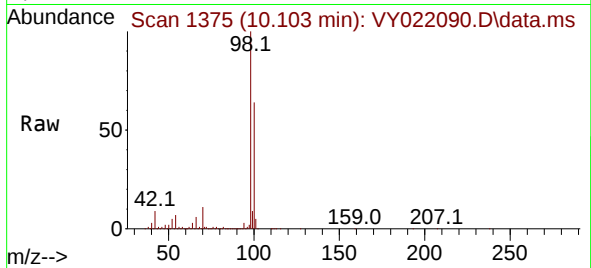




#50
Toluene-d8
Concen: 46.689 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

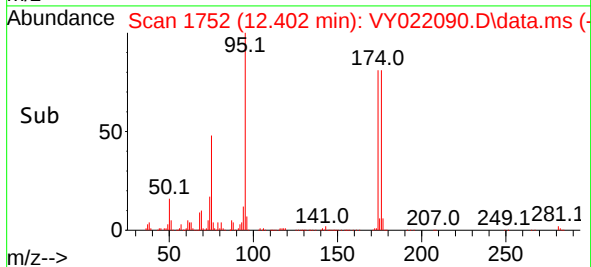
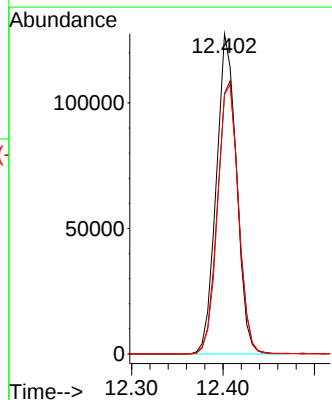
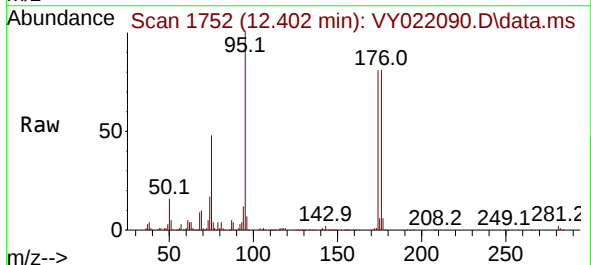
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

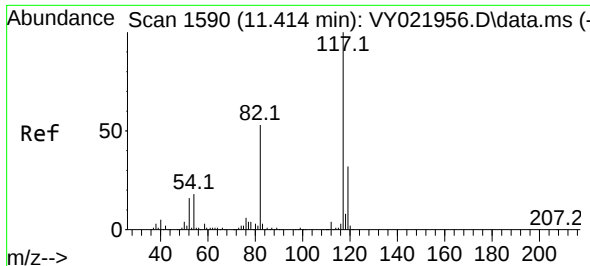
Tgt Ion: 98 Resp: 825206
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



#62
4-Bromofluorobenzene
Concen: 32.962 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 95 Resp: 196123
Ion Ratio Lower Upper
95 100
174 88.1 0.0 179.0
176 86.9 0.0 171.8

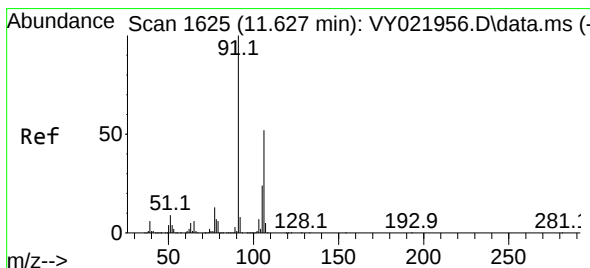
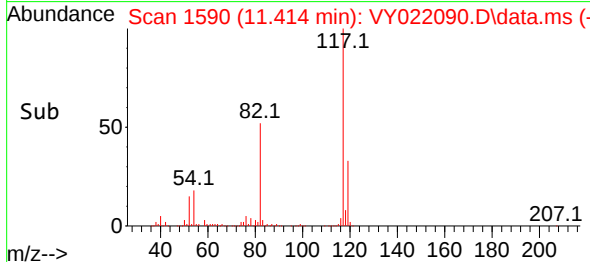
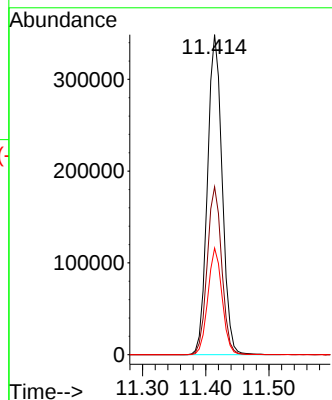
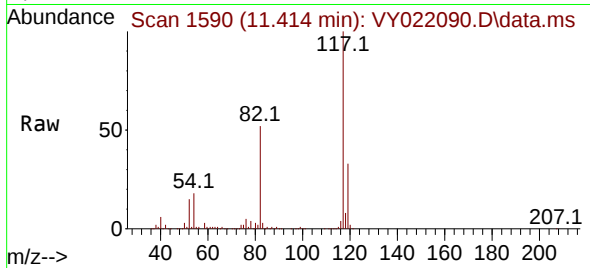




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

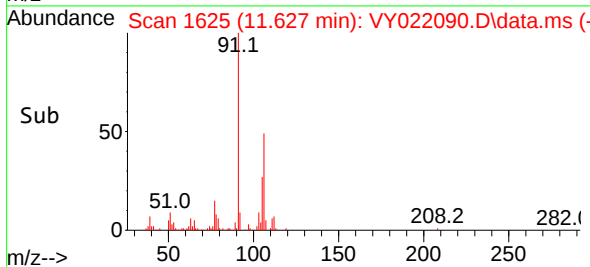
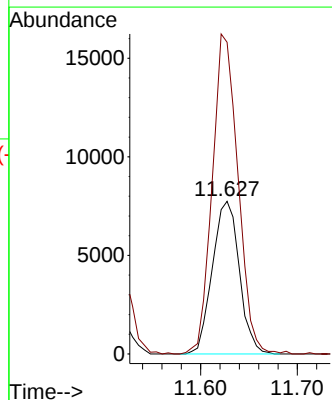
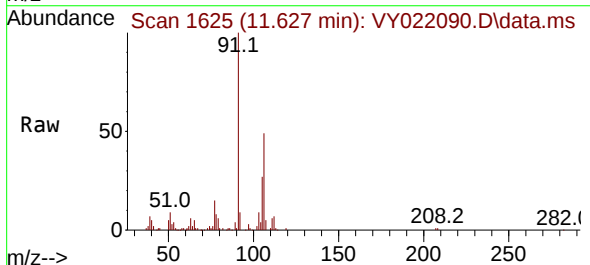
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

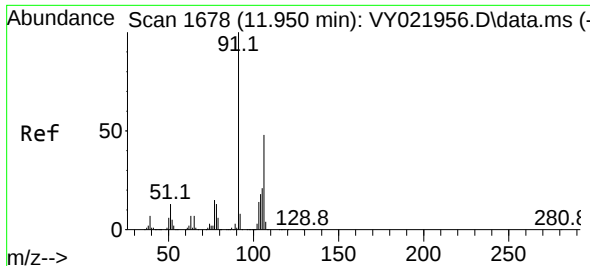
Tgt Ion:117 Resp: 563942
Ion Ratio Lower Upper
117 100
82 52.5 42.1 63.1
119 33.3 25.7 38.5



#68
m/p-Xylenes
Concen: 1.824 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:106 Resp: 14972
Ion Ratio Lower Upper
106 100
91 200.6 156.2 234.2

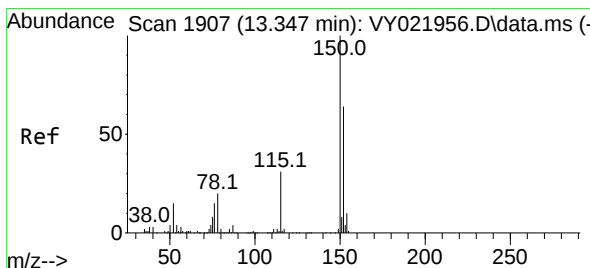
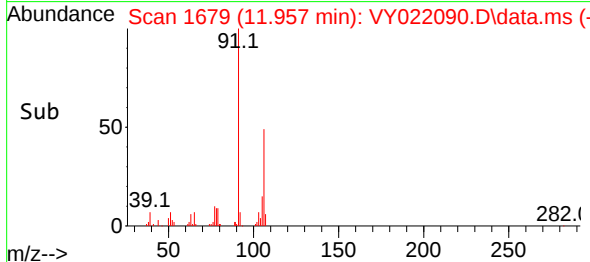
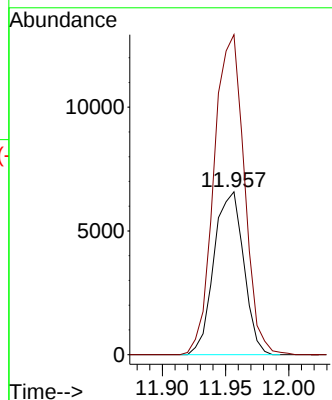
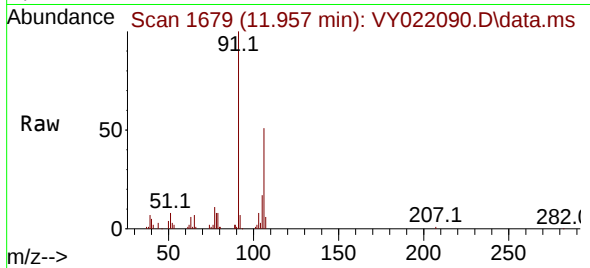




#69
o-Xylene
Concen: 1.421 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

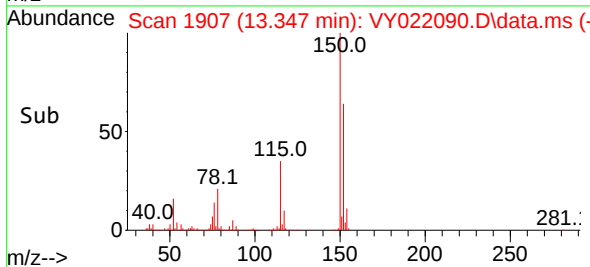
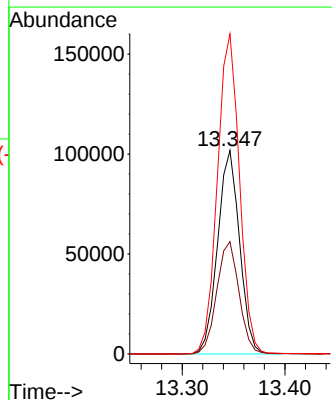
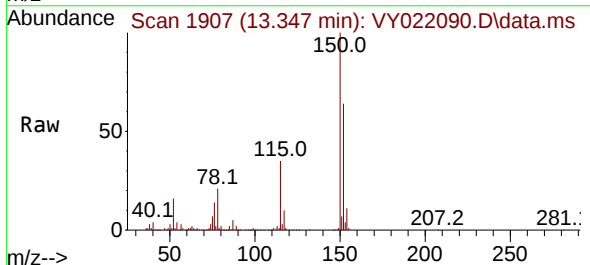
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

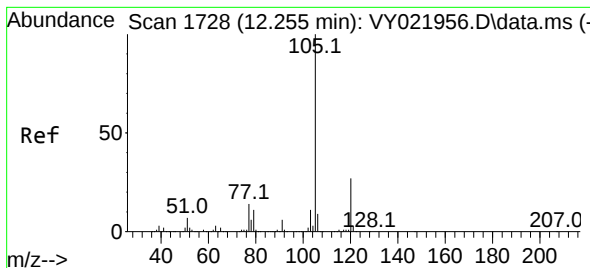
Tgt Ion:106 Resp: 10754
Ion Ratio Lower Upper
106 100
91 200.2 103.0 308.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:152 Resp: 150773
Ion Ratio Lower Upper
152 100
115 56.3 28.0 84.0
150 158.4 0.0 345.6





#73

Isopropylbenzene

Concen: 10.120 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.000 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

MSVOA_Y

ClientSampleId :

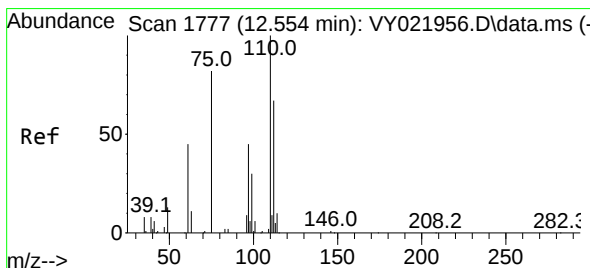
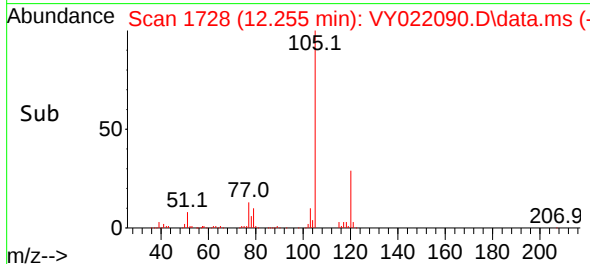
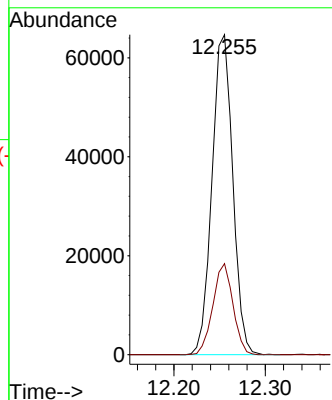
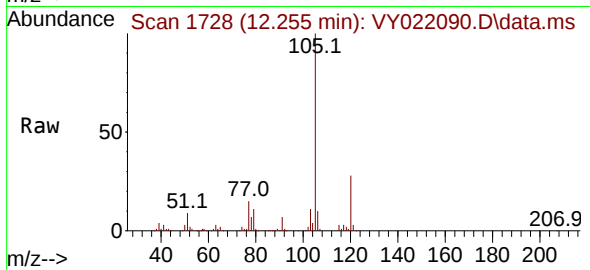
B-170-SB02

Tgt Ion:105 Resp: 101940

Ion Ratio Lower Upper

105 100

120 27.5 13.5 40.5



#76

1,2,3-Trichloropropane

Concen: 73.936 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY022090.D

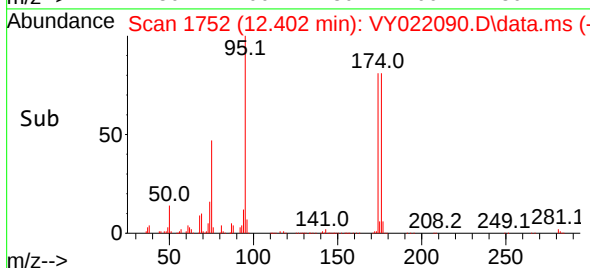
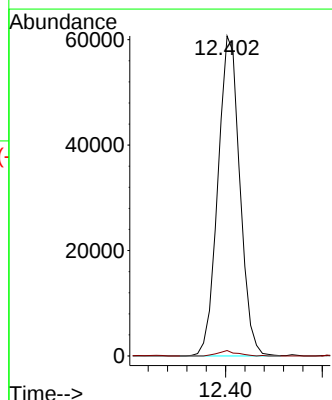
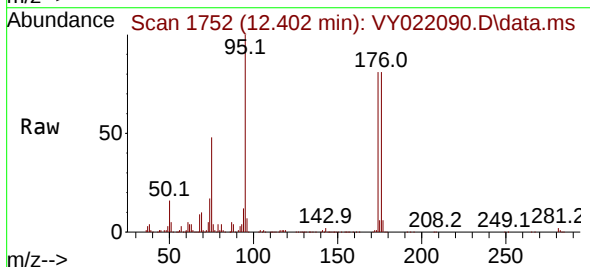
Acq: 30 Apr 2025 18:16

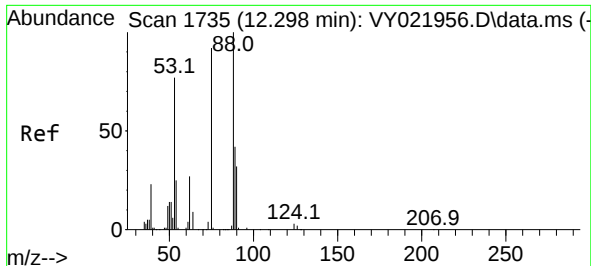
Tgt Ion: 75 Resp: 95484

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

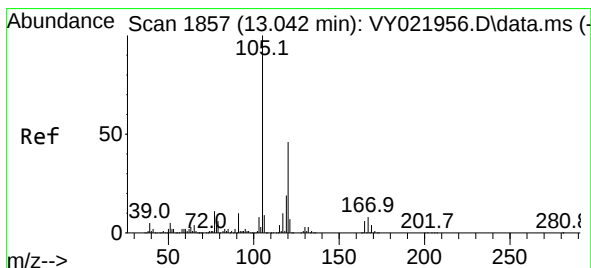
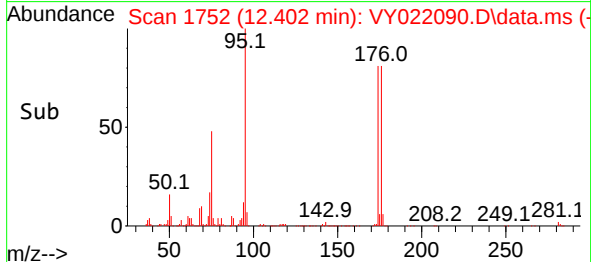
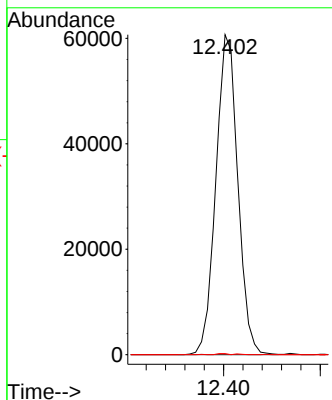
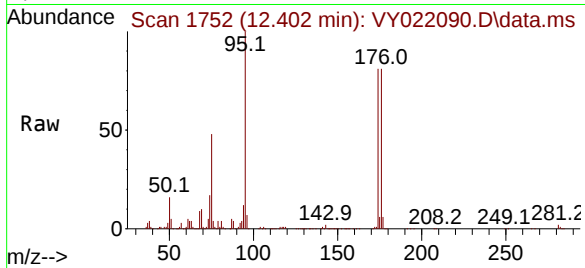




#81
trans-1,4-Dichloro-2-butene
Concen: 178.048 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

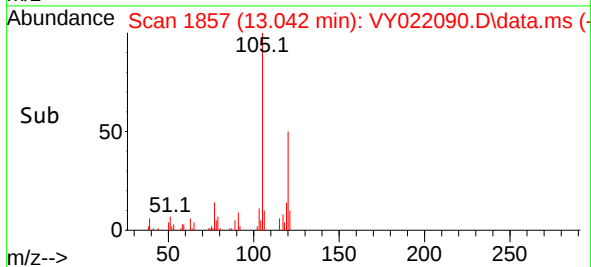
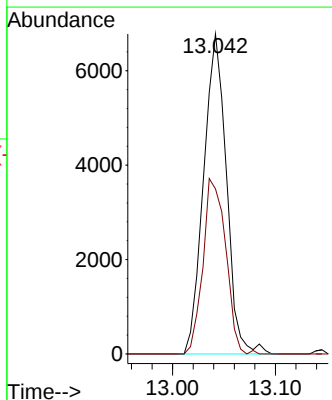
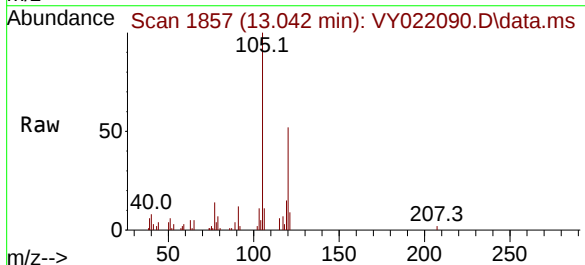
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

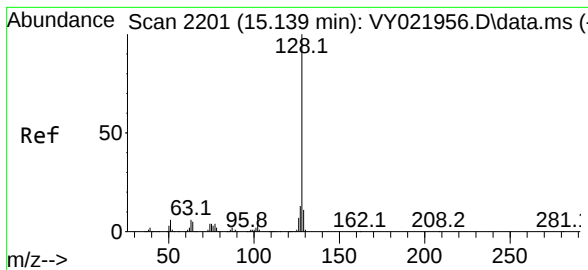
Tgt Ion: 75 Resp: 95484
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.2 37.2 55.8#



#84
1,2,4-Trimethylbenzene
Concen: 1.262 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 105 Resp: 10477
Ion Ratio Lower Upper
105 100
120 54.6 23.4 70.0





#95
 Naphthalene
 Concen: 3.230 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY022090.D
 Acq: 30 Apr 2025 18:16

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB02

Tgt Ion:	128	Resp:	13711
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.6	16.0
129	10.2	8.9	13.3

