

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
 Data File : VY023035.D
 Acq On : 21 Jul 2025 18:30
 Operator : SY/MD
 Sample : Q2660-01
 Misc : 3.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0205

Quant Time: Jul 22 04:56:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	251317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	493047	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	502476	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	214328	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	166705	65.525	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	131.040%
35) Dibromofluoromethane	7.634	113	165487	52.912	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.820%
50) Toluene-d8	10.103	98	607321	48.967	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.940%
62) 4-Bromofluorobenzene	12.402	95	215115	55.098	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.200%

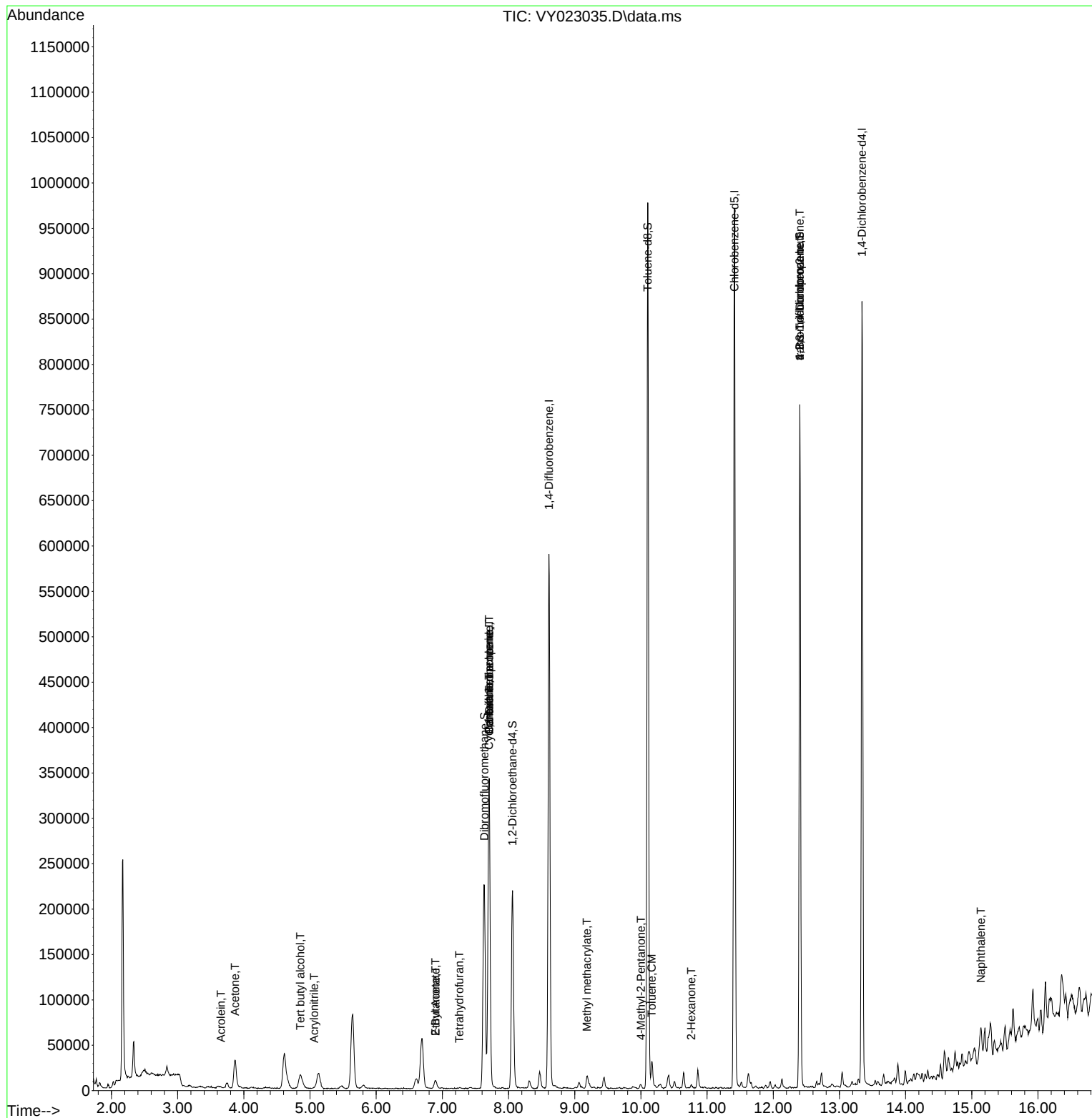
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	27417	178.189	ug/l #	90
13) Acrolein	3.653	56	1673	23.139	ug/l #	80
15) Acrylonitrile	5.061	53	981	1.854	ug/l #	54
16) Acetone	3.867	43	55425	120.182	ug/l	99
25) 2-Butanone	6.896	43	13951	21.087	ug/l	94
29) Tetrahydrofuran	7.256	42	593	1.416	ug/l #	73
31) Cyclohexane	7.701	56	7460	1.473	ug/l #	27
36) 1,1-Dichloropropene	7.707	75	21819	4.429	ug/l #	50
37) Ethyl Acetate	6.896	43	13951	7.625	ug/l #	68
38) Carbon Tetrachloride	7.707	117	27254	5.092	ug/l #	18
48) Methyl methacrylate	9.183	41	5191	2.958	ug/l #	33
51) 4-Methyl-2-Pentanone	10.000	43	3651	1.979	ug/l #	86
52) Toluene	10.164	92	11105	1.204	ug/l	100
59) 2-Hexanone	10.762	43	2866	2.364	ug/l	93
76) 1,2,3-Trichloropropane	12.402	75	117324	43.930	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	117324	130.844	ug/l #	12
95) Naphthalene	15.139	128	26694	4.706	ug/l #	93

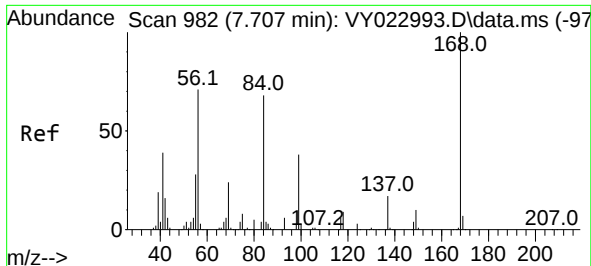
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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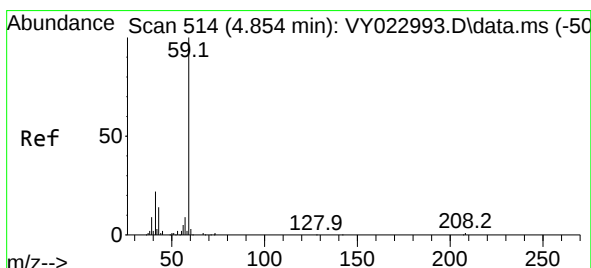
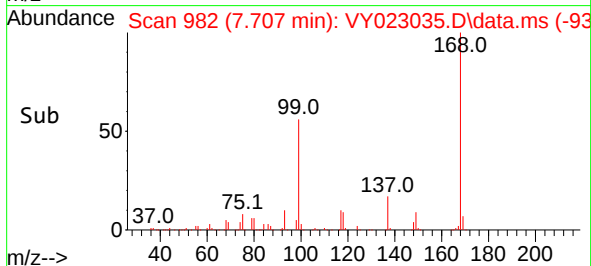
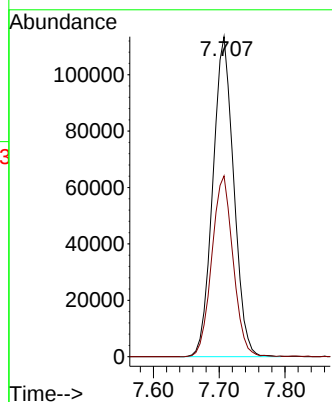
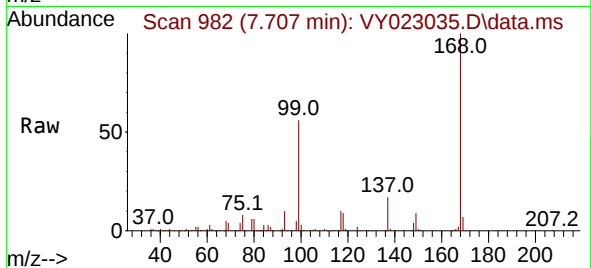




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

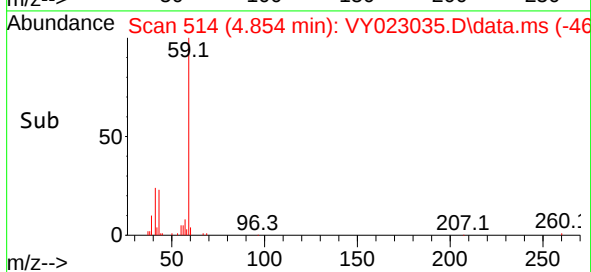
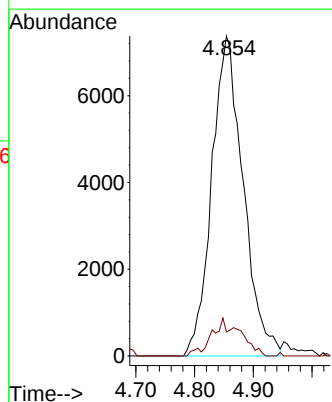
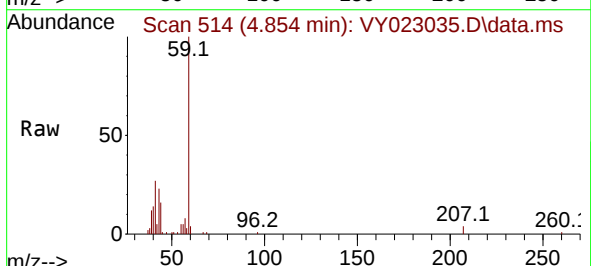
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

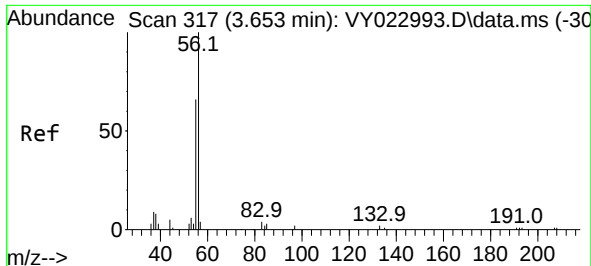
Tgt Ion:168 Resp: 251317
Ion Ratio Lower Upper
168 100
99 56.5 44.4 66.6



#11
Tert butyl alcohol
Concen: 178.189 ug/l
RT: 4.854 min Scan# 514
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 59 Resp: 27417
Ion Ratio Lower Upper
59 100
57 6.4 8.2 12.2#





#13

Acrolein

Concen: 23.139 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

Instrument :

MSVOA_Y

ClientSampleId :

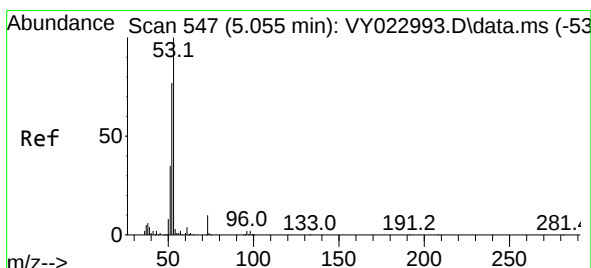
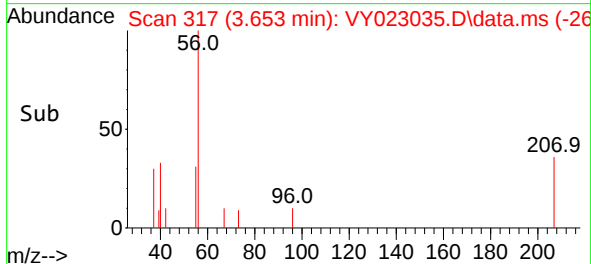
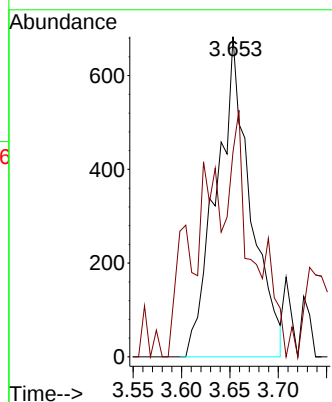
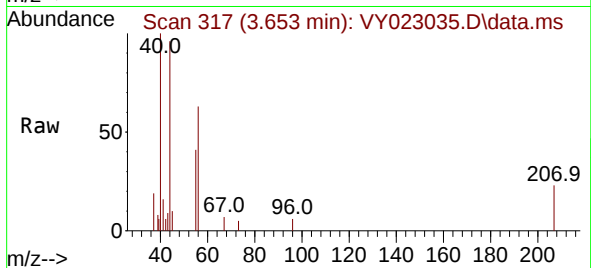
MOO-25-0205

Tgt Ion: 56 Resp: 1673

Ion Ratio Lower Upper

56 100

55 55.2 57.8 86.6#



#15

Acrylonitrile

Concen: 1.854 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.006 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

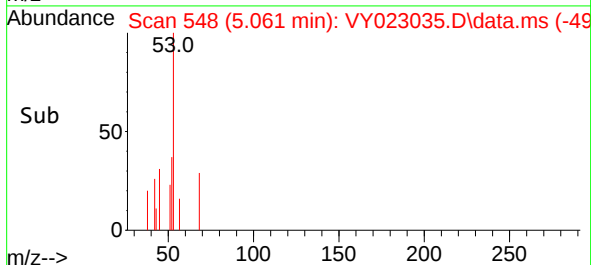
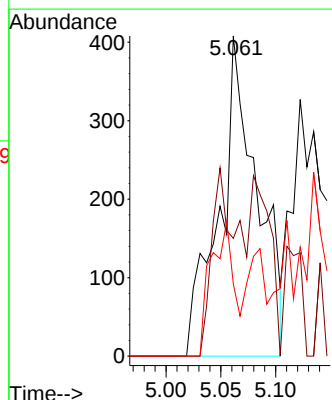
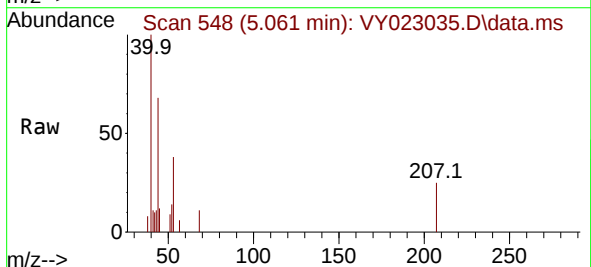
Tgt Ion: 53 Resp: 981

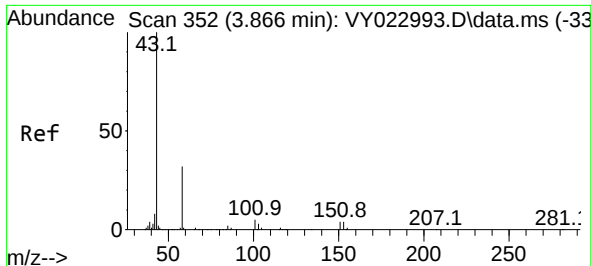
Ion Ratio Lower Upper

53 100

52 29.4 65.2 97.8#

51 25.6 30.3 45.5#





#16

Acetone

Concen: 120.182 ug/l

RT: 3.867 min Scan# 3

Delta R.T. 0.000 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

Instrument :

MSVOA_Y

ClientSampleId :

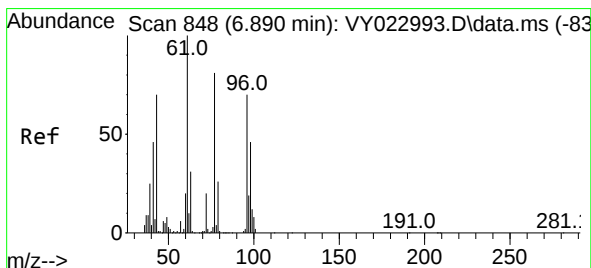
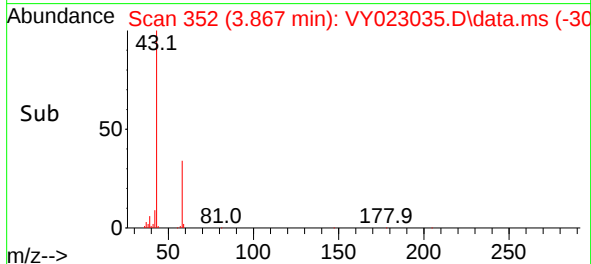
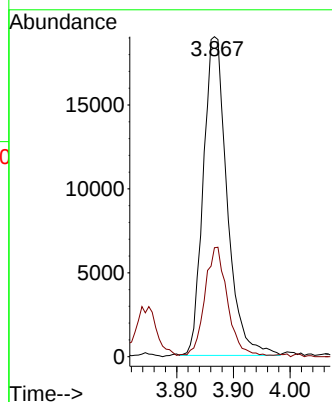
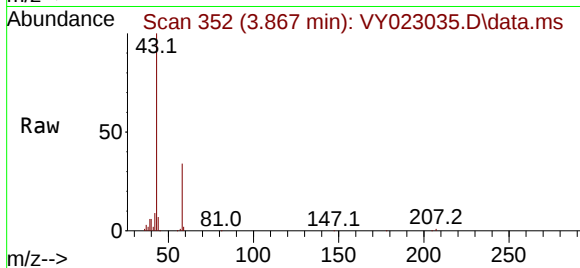
MOO-25-0205

Tgt Ion: 43 Resp: 55425

Ion Ratio Lower Upper

43 100

58 33.6 26.2 39.4



#25

2-Butanone

Concen: 21.087 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY023035.D

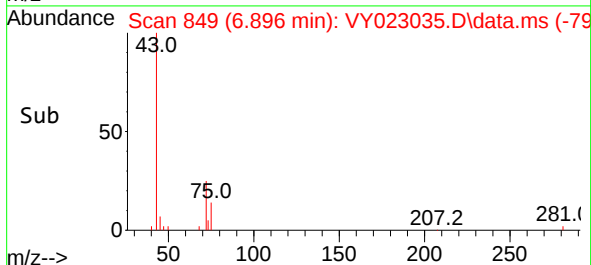
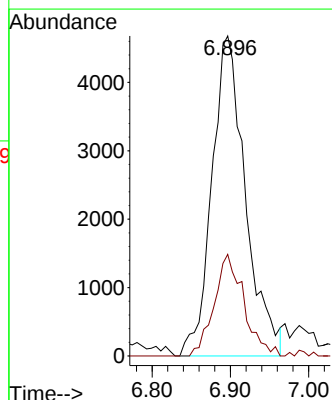
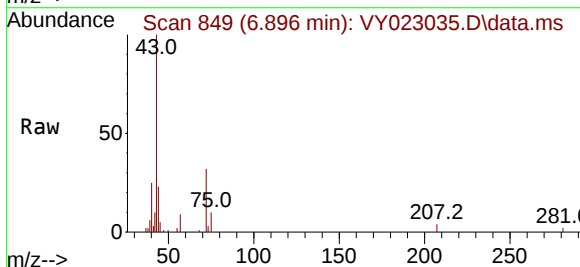
Acq: 21 Jul 2025 18:30

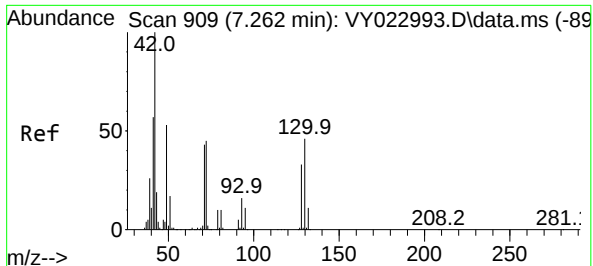
Tgt Ion: 43 Resp: 13951

Ion Ratio Lower Upper

43 100

72 31.7 22.9 34.3

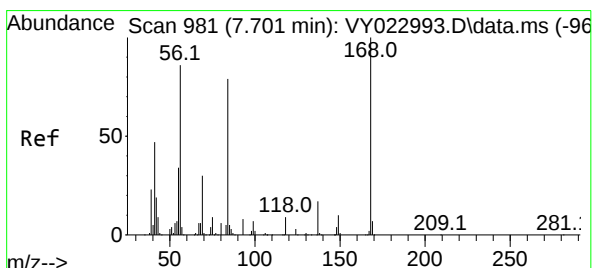
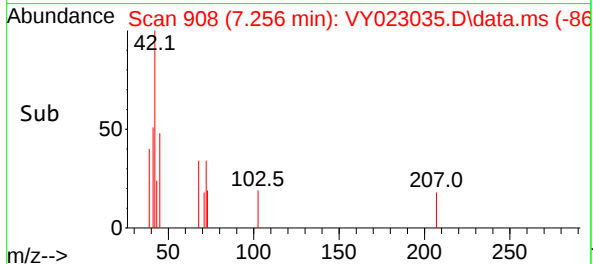
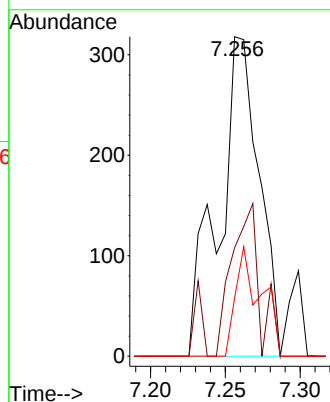
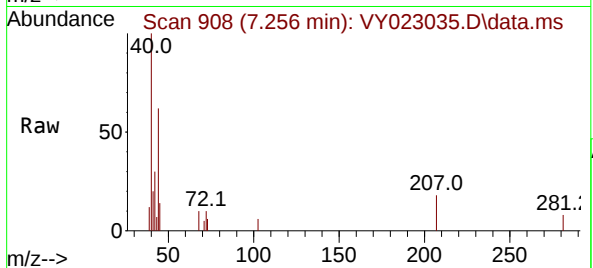




#29
Tetrahydrofuran
Concen: 1.416 ug/l
RT: 7.256 min Scan# 909
Delta R.T. -0.006 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

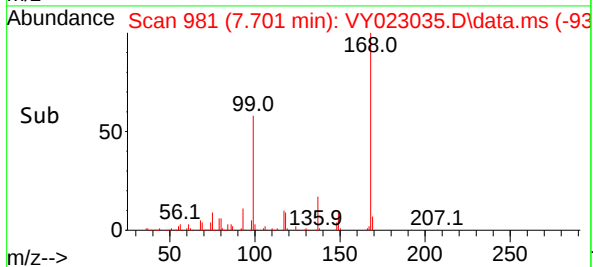
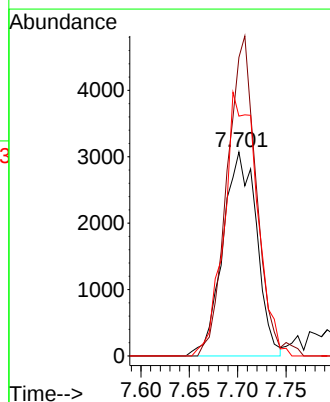
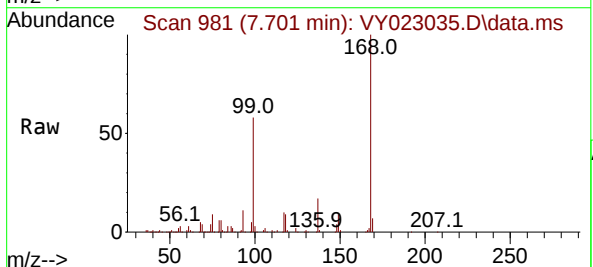
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

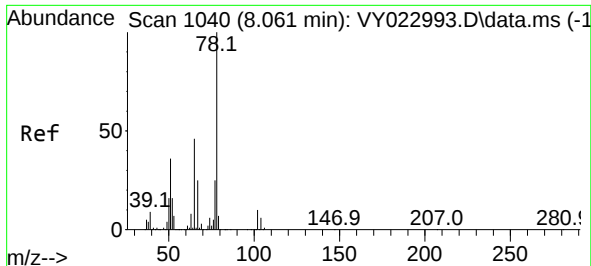
Tgt Ion: 42 Resp: 593
Ion Ratio Lower Upper
42 100
72 33.1 37.5 56.3#
71 21.6 34.2 51.4#



#31
Cyclohexane
Concen: 1.473 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 56 Resp: 7460
Ion Ratio Lower Upper
56 100
69 146.5 28.1 42.1#
84 117.7 73.5 110.3#





#33

1,2-Dichloroethane-d4

Concen: 65.525 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

Instrument :

MSVOA_Y

ClientSampleId :

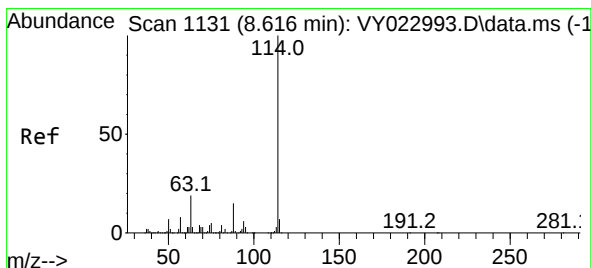
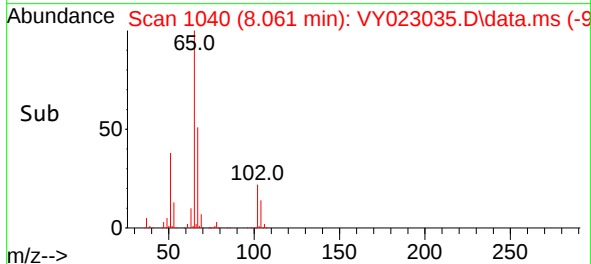
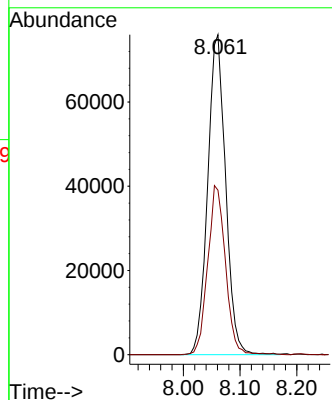
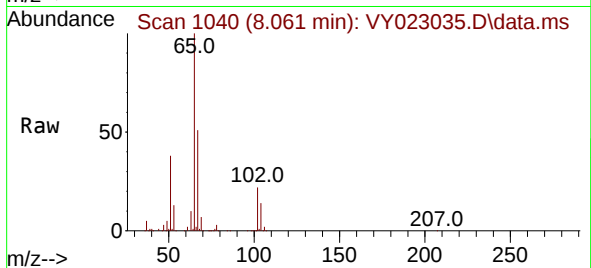
MOO-25-0205

Tgt Ion: 65 Resp: 166705

Ion Ratio Lower Upper

65 100

67 52.4 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

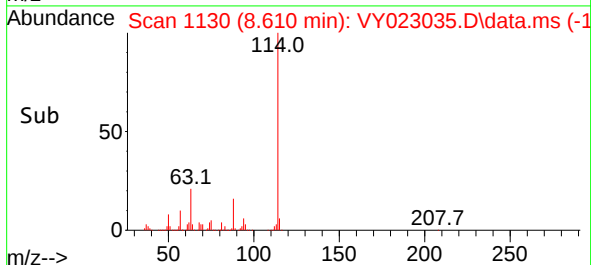
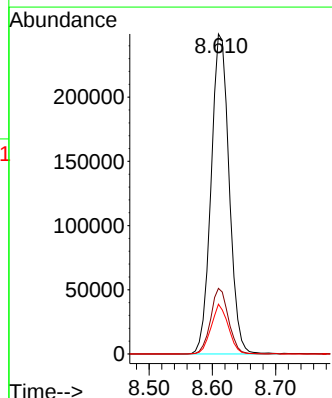
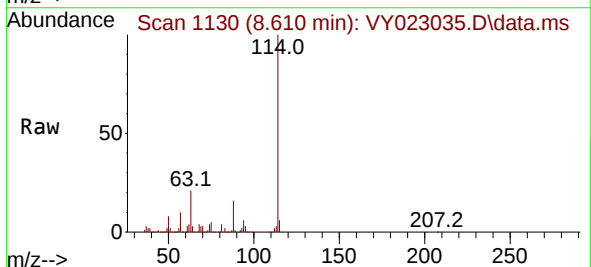
Tgt Ion: 114 Resp: 493047

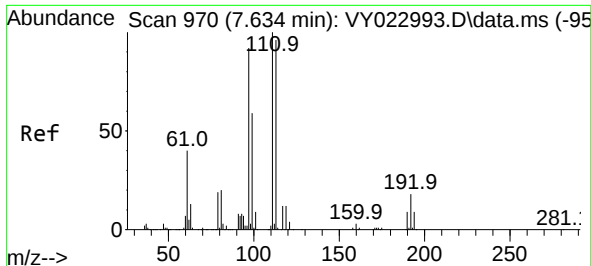
Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.8

88 15.6 0.0 30.2

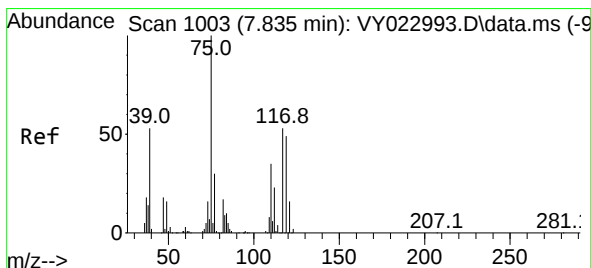
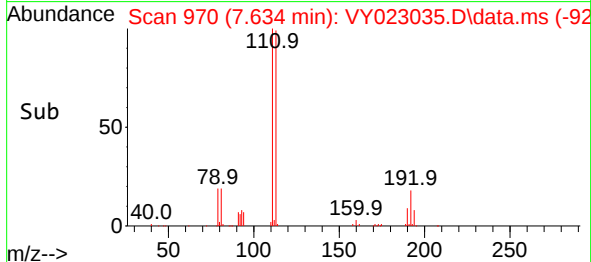
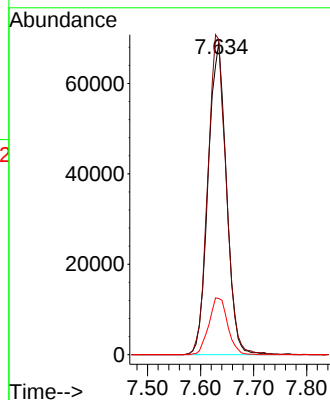
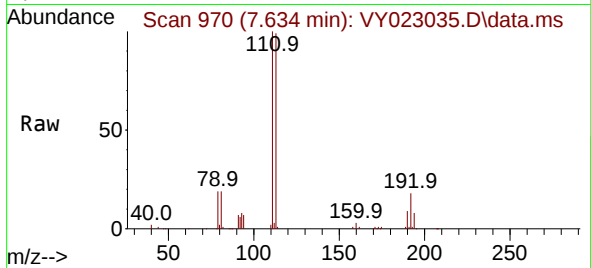




#35
Dibromofluoromethane
Concen: 52.912 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

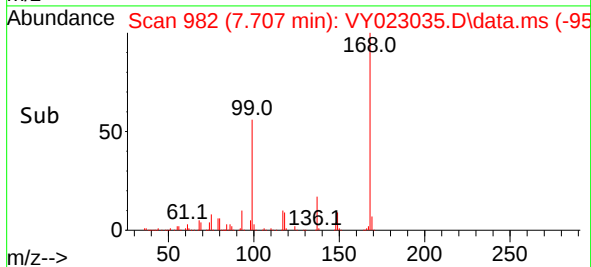
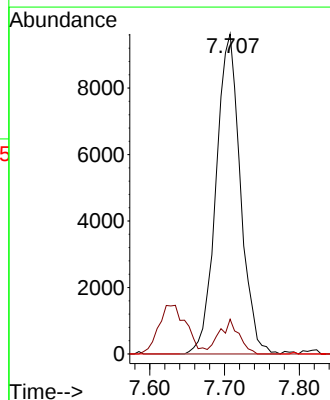
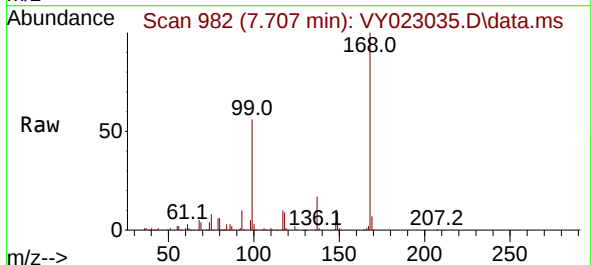
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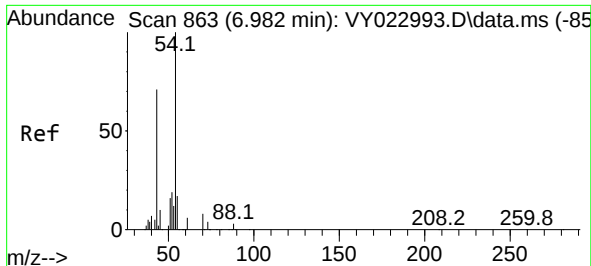
Tgt Ion:113 Resp: 165487
Ion Ratio Lower Upper
113 100
111 102.6 83.2 124.8
192 18.7 15.3 22.9



#36
1,1-Dichloropropene
Concen: 4.429 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 75 Resp: 21819
Ion Ratio Lower Upper
75 100
110 8.6 17.3 51.9#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 7.625 ug/l

RT: 6.896 min Scan# 84

Delta R.T. -0.085 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0205

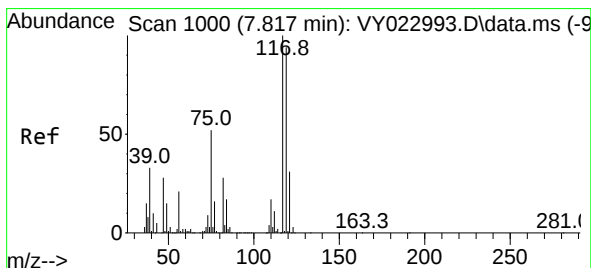
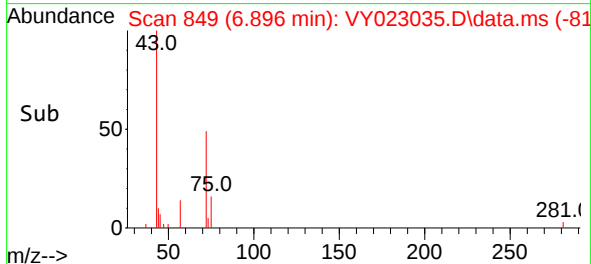
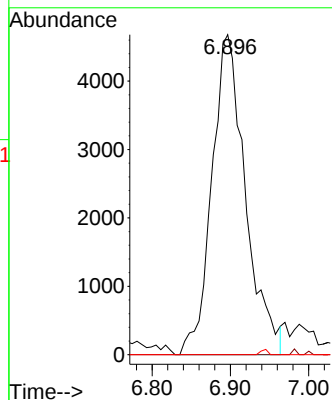
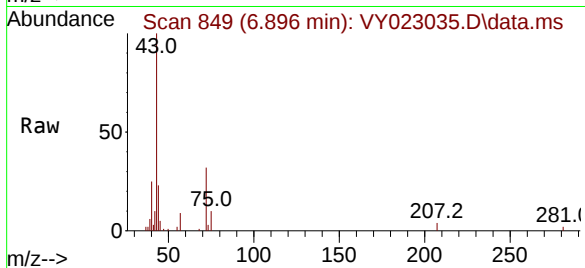
Tgt Ion: 43 Resp: 13951

Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

70 0.0 8.5 12.7#



#38

Carbon Tetrachloride

Concen: 5.092 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

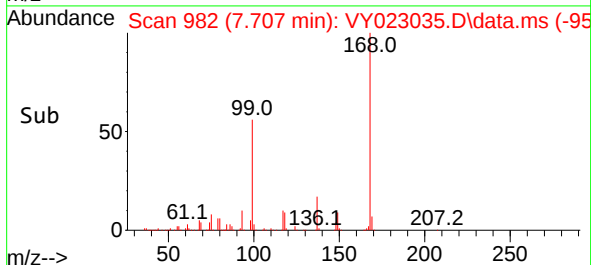
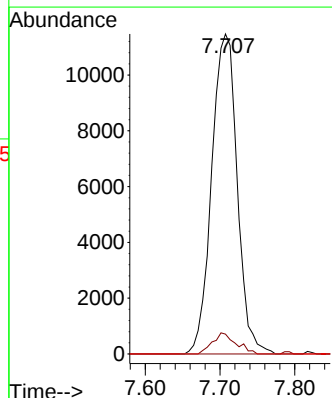
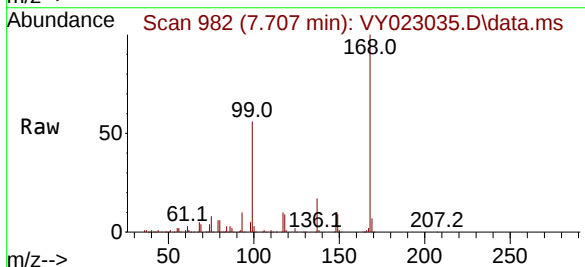
Tgt Ion: 117 Resp: 27254

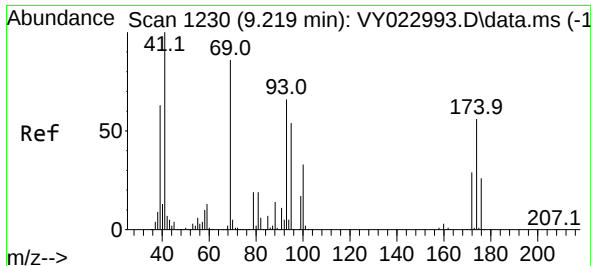
Ion Ratio Lower Upper

117 100

119 6.2 74.9 112.3#

121 0.0 24.6 37.0#

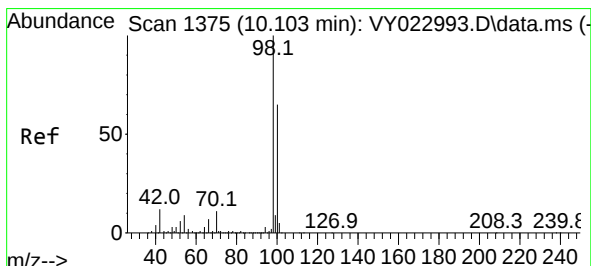
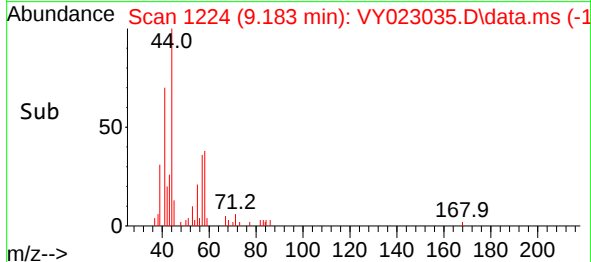
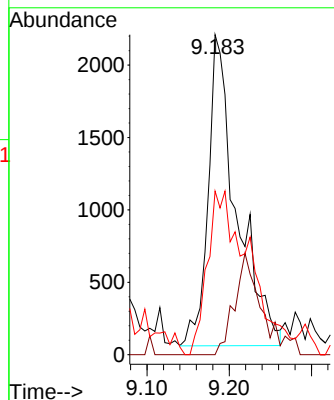
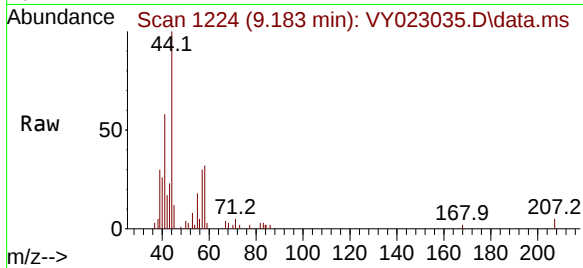




#48
Methyl methacrylate
Concen: 2.958 ug/l
RT: 9.183 min Scan# 1224
Delta R.T. -0.036 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

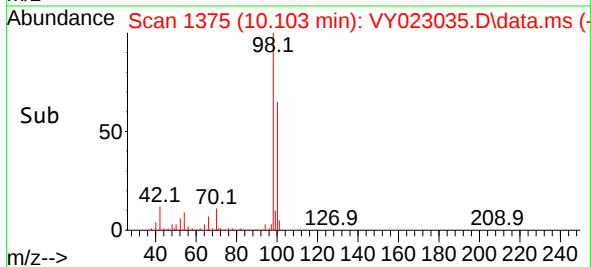
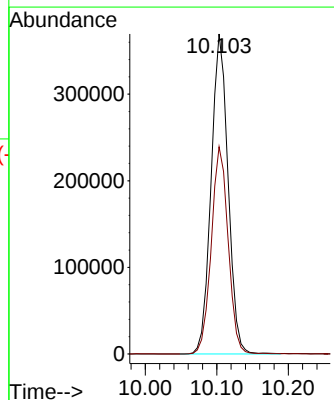
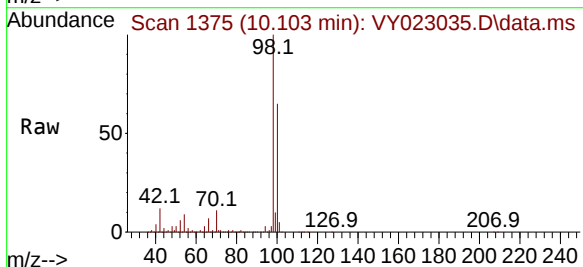
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

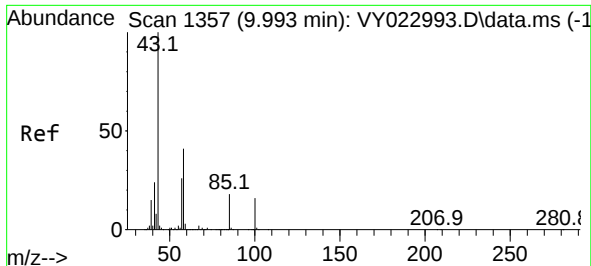
Tgt Ion: 41 Resp: 5191
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 78.0 47.8 71.8#



#50
Toluene-d8
Concen: 48.967 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 98 Resp: 607321
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2

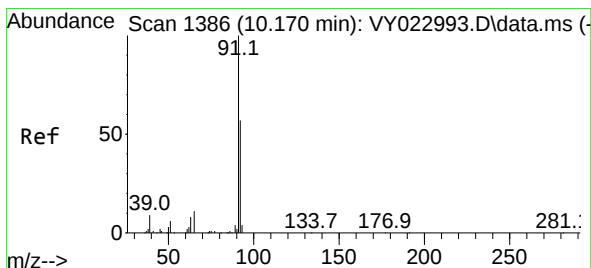
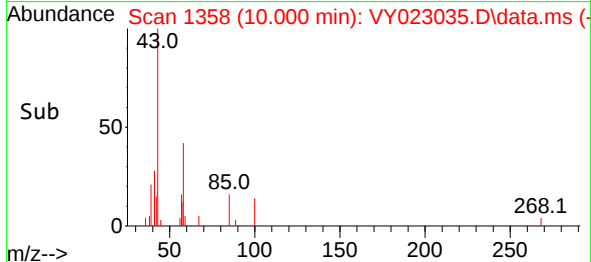
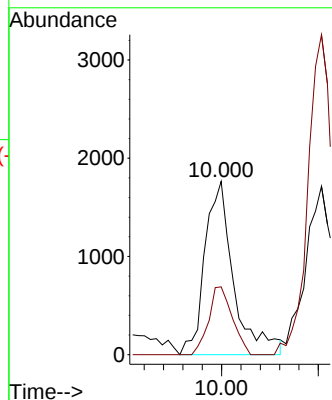
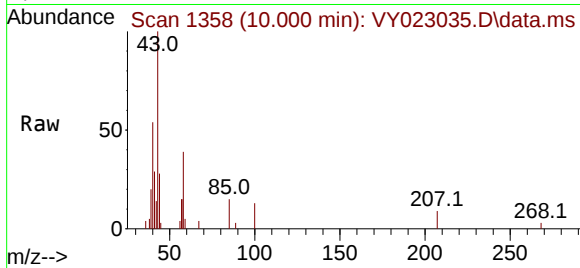




#51
4-Methyl-2-Pentanone
Concen: 1.979 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.006 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

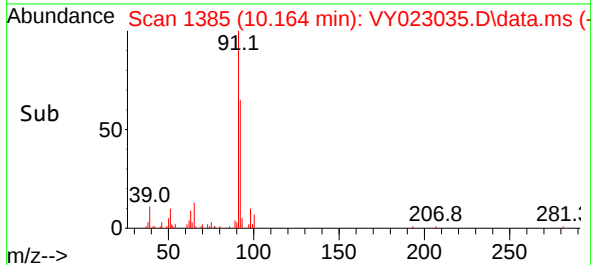
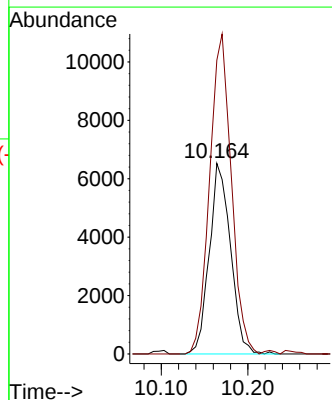
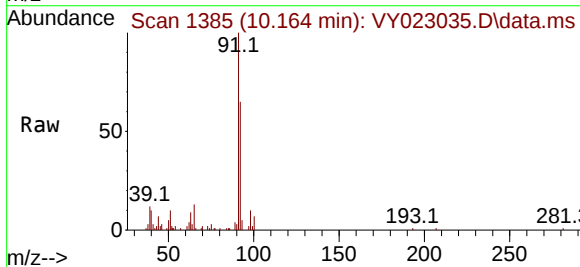
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

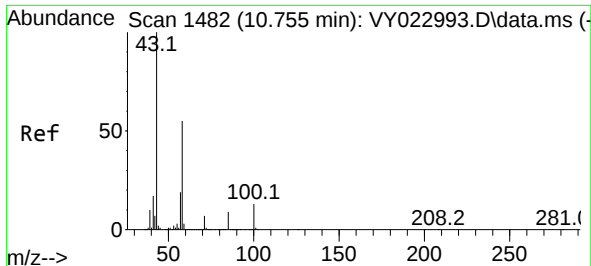
Tgt Ion: 43 Resp: 3651
Ion Ratio Lower Upper
43 100
58 32.2 32.5 48.7#



#52
Toluene
Concen: 1.204 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.006 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 92 Resp: 11105
Ion Ratio Lower Upper
92 100
91 171.7 137.8 206.6

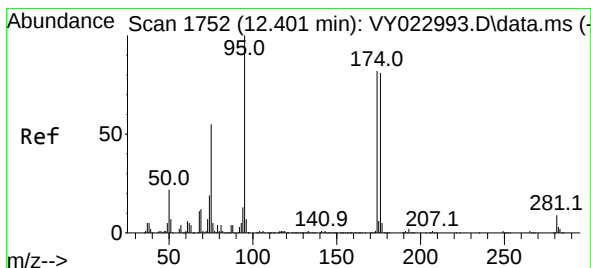
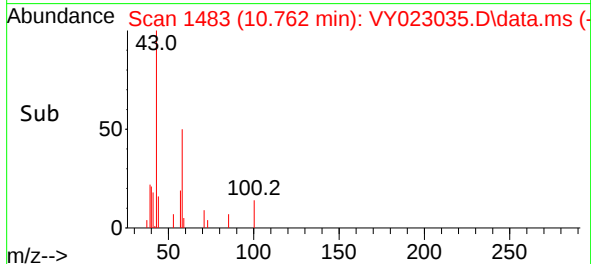
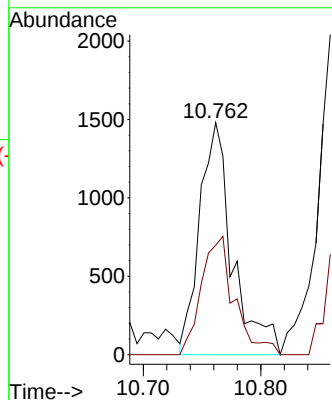
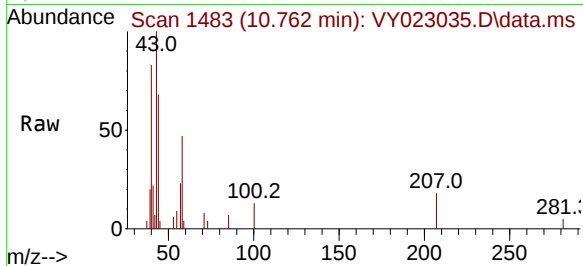




#59
2-Hexanone
Concen: 2.364 ug/l
RT: 10.762 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

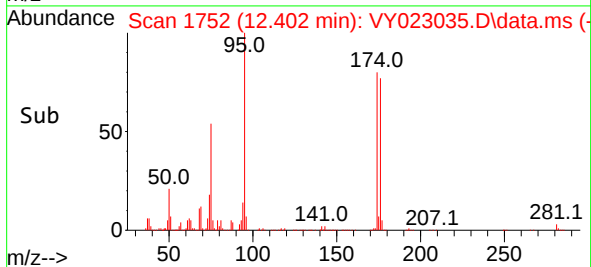
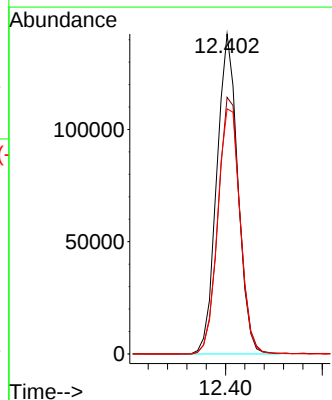
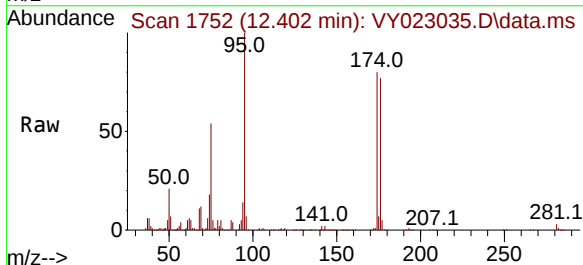
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

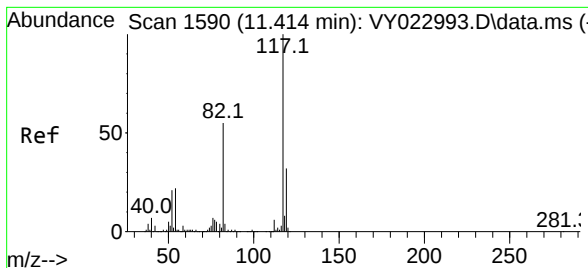
Tgt Ion: 43 Resp: 2866
Ion Ratio Lower Upper
43 100
58 51.4 28.1 84.3



#62
4-Bromofluorobenzene
Concen: 55.098 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 95 Resp: 215115
Ion Ratio Lower Upper
95 100
174 83.3 0.0 170.8
176 81.7 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0205

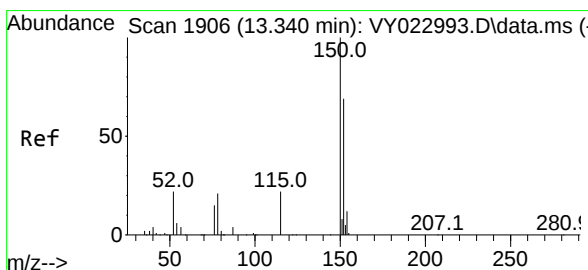
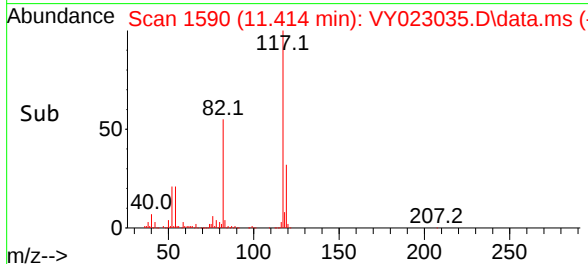
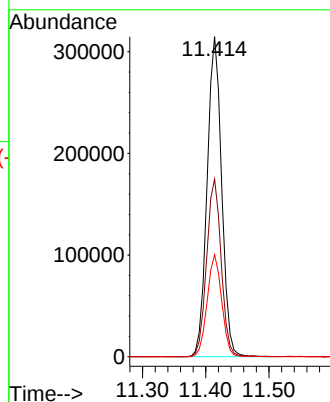
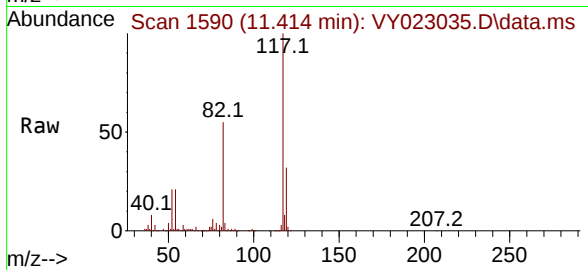
Tgt Ion:117 Resp: 502476

Ion Ratio Lower Upper

117 100

82 55.5 44.3 66.5

119 31.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023035.D

Acq: 21 Jul 2025 18:30

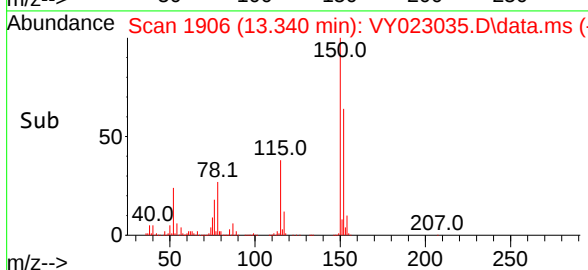
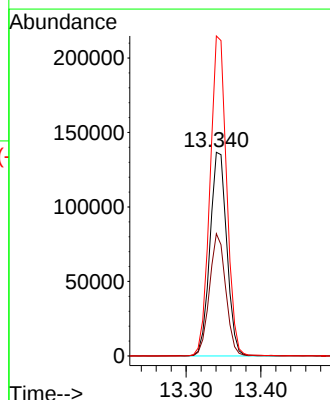
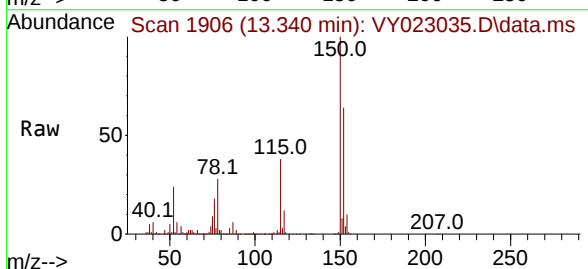
Tgt Ion:152 Resp: 214328

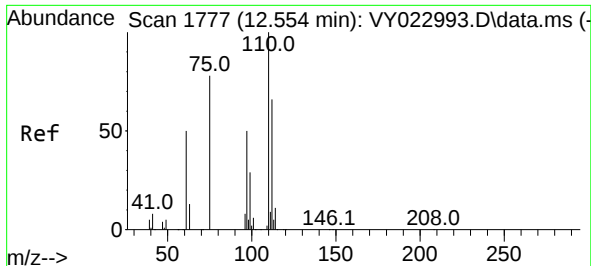
Ion Ratio Lower Upper

152 100

115 57.7 29.4 88.2

150 155.1 0.0 350.0

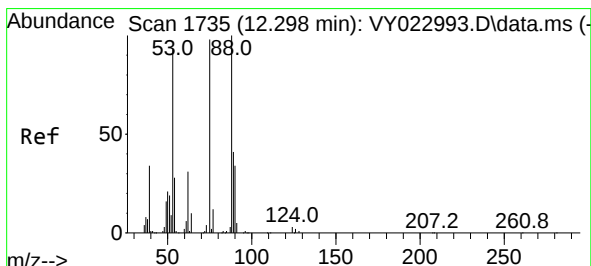
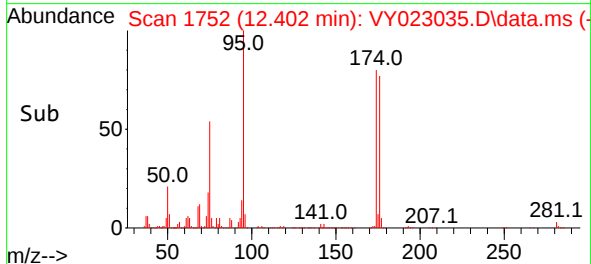
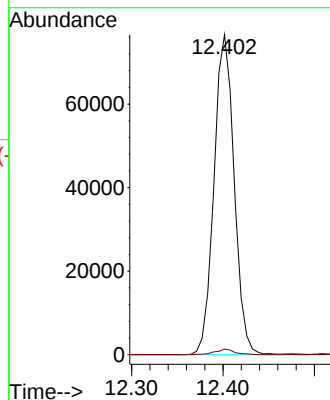
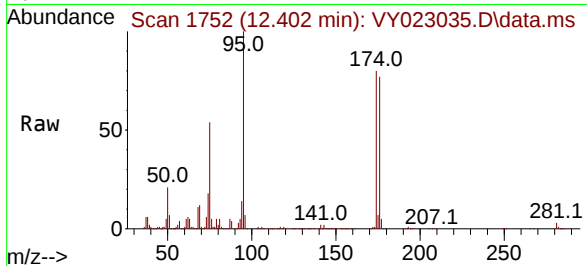




#76
1,2,3-Trichloropropane
Concen: 43.930 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

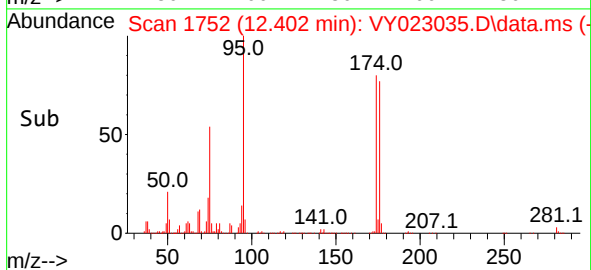
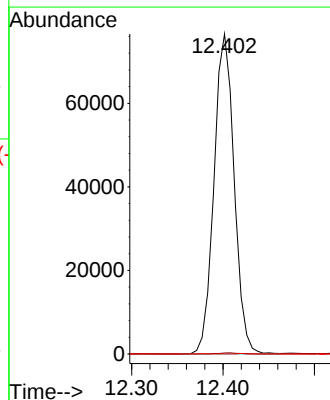
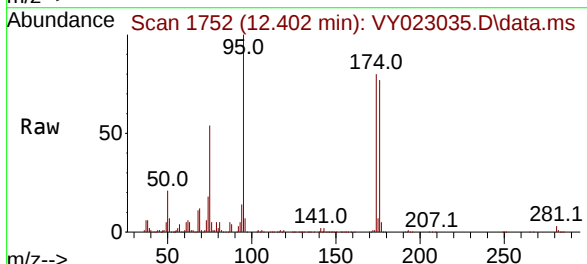
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

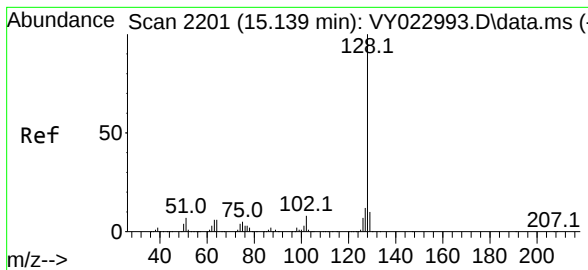
Tgt Ion: 75 Resp: 117324
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 130.844 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Tgt Ion: 75 Resp: 117324
Ion Ratio Lower Upper
75 100
53 0.4 76.1 114.1#
89 0.0 36.1 54.1#





#95
Naphthalene
Concen: 4.706 ug/l
RT: 15.139 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023035.D
Acq: 21 Jul 2025 18:30

Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0205

Tgt Ion:128 Resp: 26694
Ion Ratio Lower Upper
128 100
127 16.6 10.2 15.2#
129 12.2 8.6 12.8

