

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082025\
 Data File : VY023166.D
 Acq On : 20 Aug 2025 11:27
 Operator : SY/MD
 Sample : Q2879-03
 Misc : 3.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 20 11:58:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

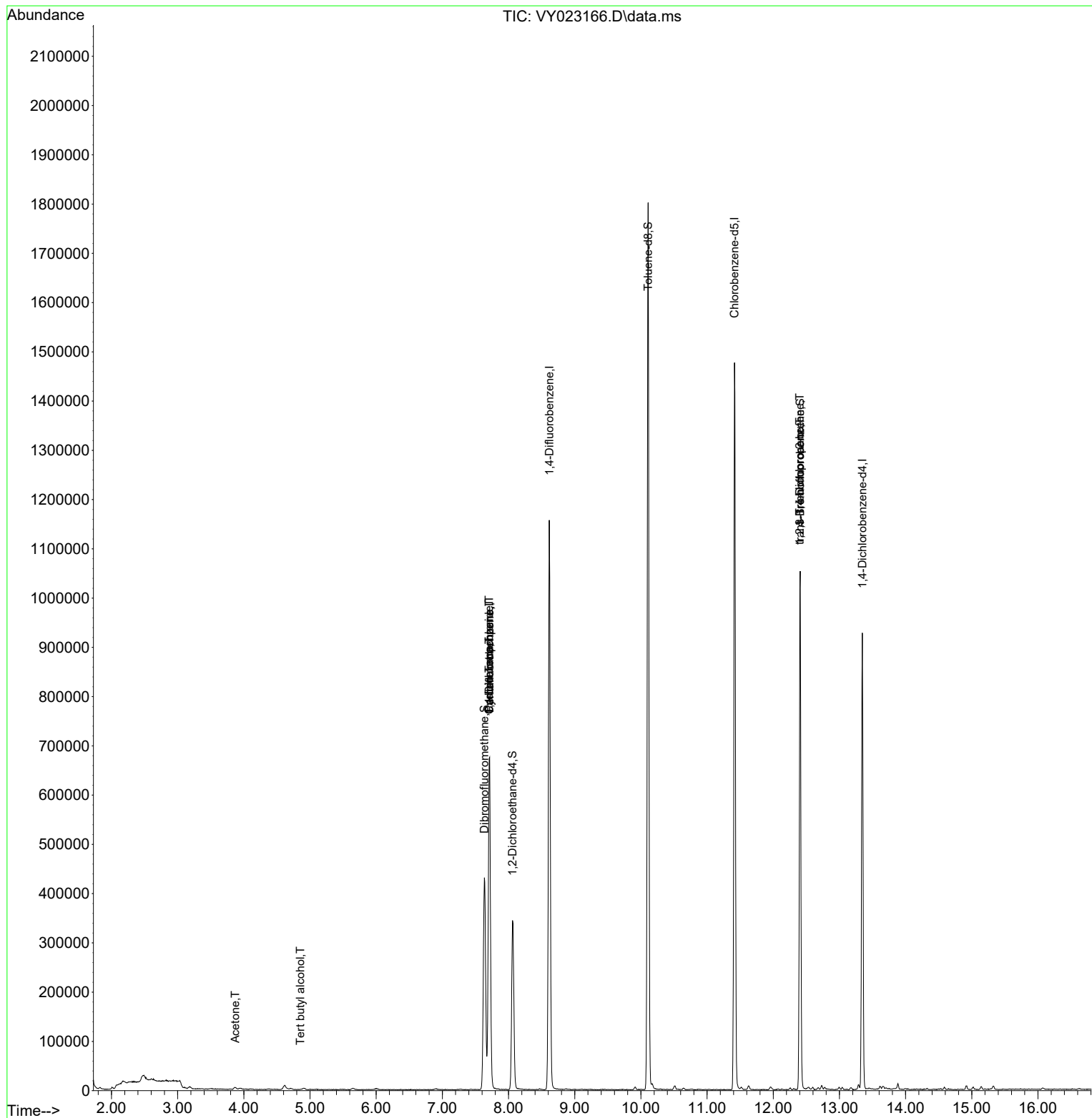
Internal Standards						
1) Pentafluorobenzene	7.713	168	539019	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	995282	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	798711	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	234966	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	275365	53.602	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.200%	
35) Dibromofluoromethane	7.634	113	311698	52.338	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.680%	
50) Toluene-d8	10.109	98	1169704	50.276	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.560%	
62) 4-Bromofluorobenzene	12.408	95	317312	42.409	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 84.820%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	516	1.466	ug/l #	71
16) Acetone	3.873	43	6571	5.904	ug/l	99
20) Methylene Chloride	4.623	84	6446	Below Cal	#	80
31) Cyclohexane	7.707	56	11318	1.183	ug/l #	19
36) 1,1-Dichloropropene	7.707	75	40213	4.544	ug/l #	49
38) Carbon Tetrachloride	7.707	117	51823	5.391	ug/l #	16
76) 1,2,3-Trichloropropane	12.402	75	165649	73.048	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	165649	176.826	ug/l #	14

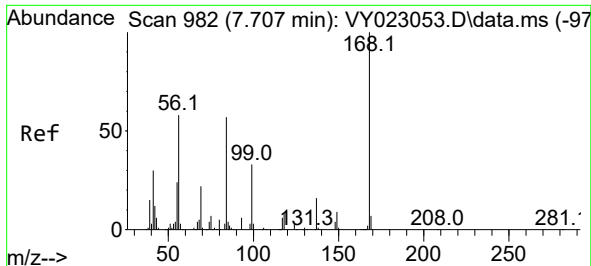
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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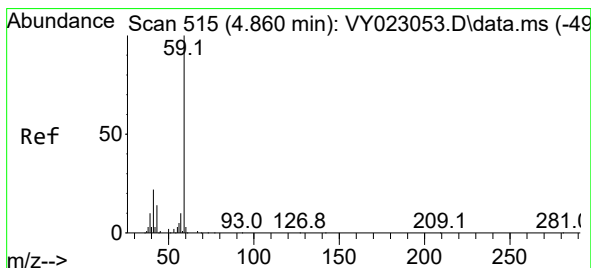
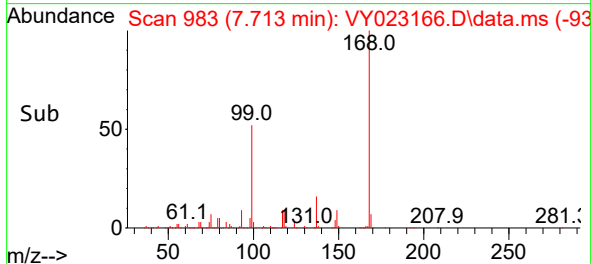
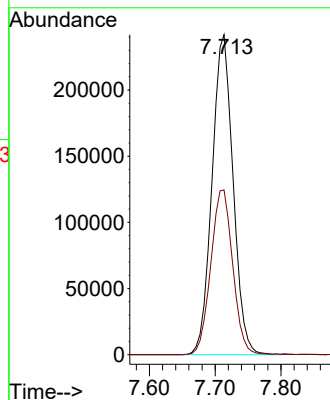
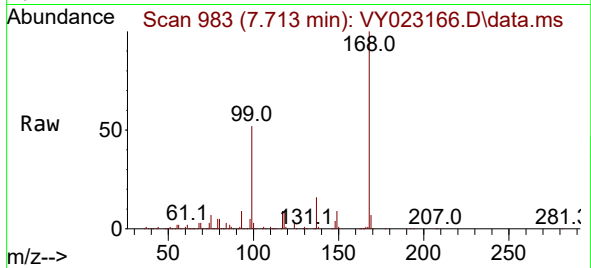




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

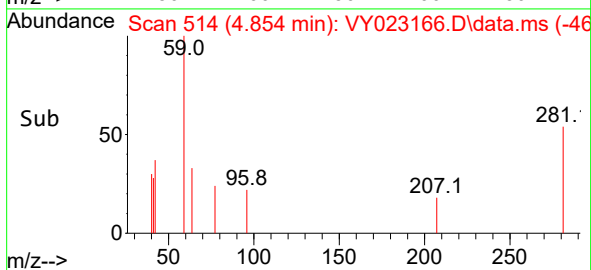
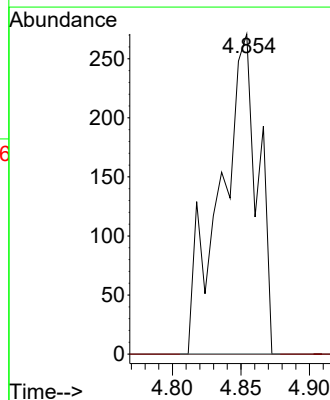
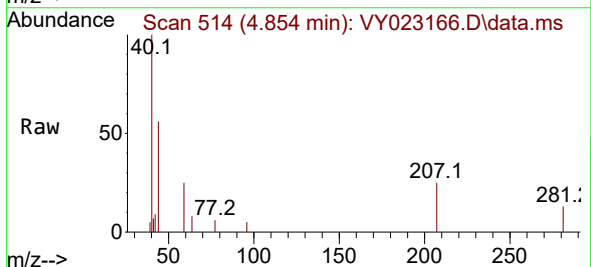
Instrument :
MSVOA_Y
ClientSampleId :

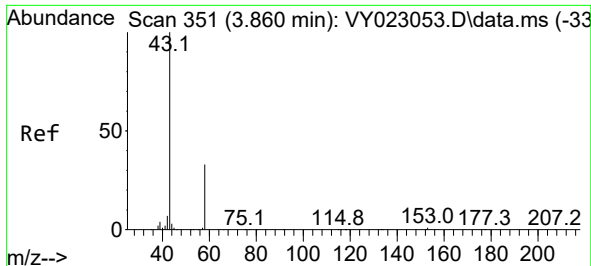
Tgt Ion:168 Resp: 539019
Ion Ratio Lower Upper
168 100
99 51.5 42.8 64.2



#11
Tert butyl alcohol
Concen: 1.466 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

Tgt Ion: 59 Resp: 516
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

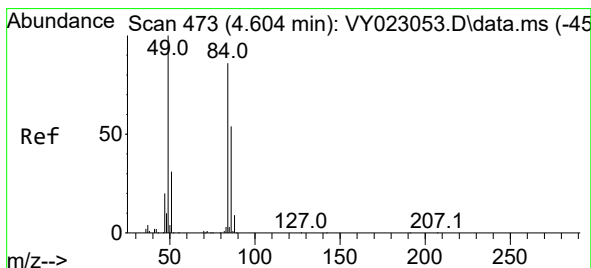
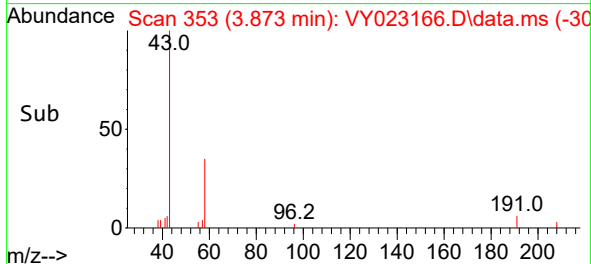
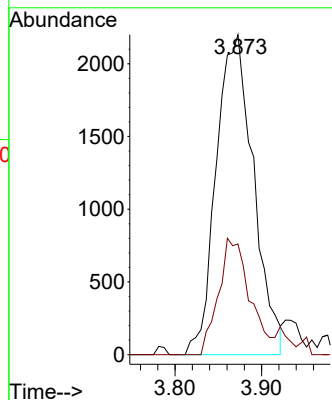
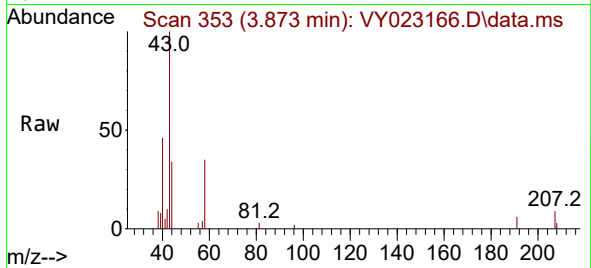




#16
Acetone
Concen: 5.904 ug/l
RT: 3.873 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

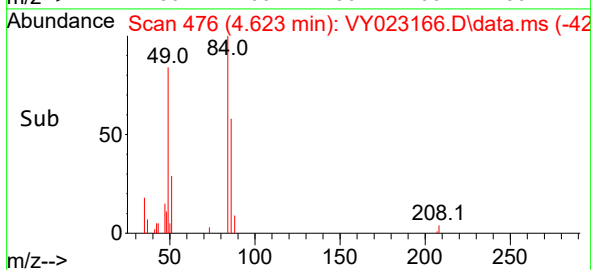
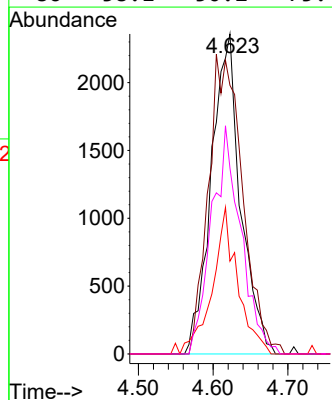
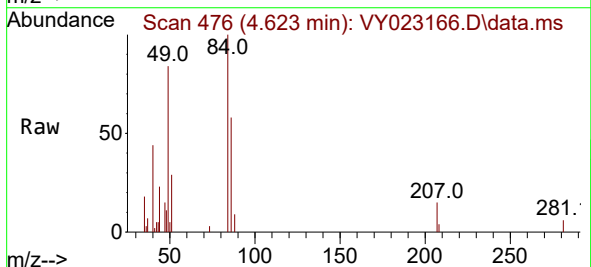
Instrument :
MSVOA_Y
ClientSampleId :

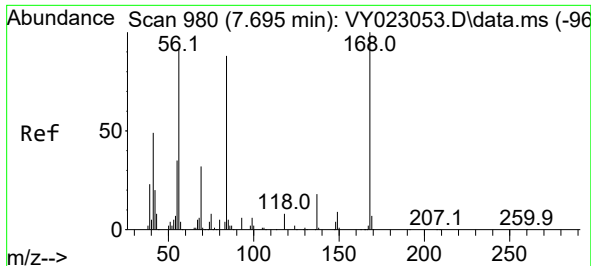
Tgt Ion: 43 Resp: 6571
Ion Ratio Lower Upper
43 100
58 34.6 27.1 40.7



#20
Methylene Chloride
Concen: Below Cal
RT: 4.623 min Scan# 476
Delta R.T. 0.019 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

Tgt Ion: 84 Resp: 6446
Ion Ratio Lower Upper
84 100
49 83.9 93.0 139.6#
51 29.0 29.0 43.4
86 58.1 50.2 75.4

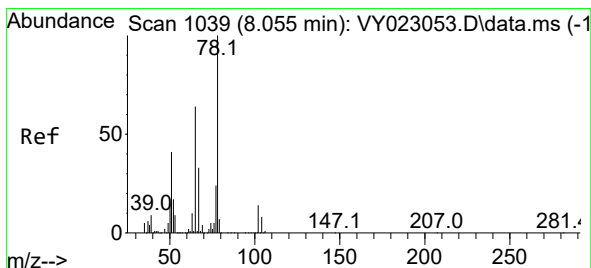
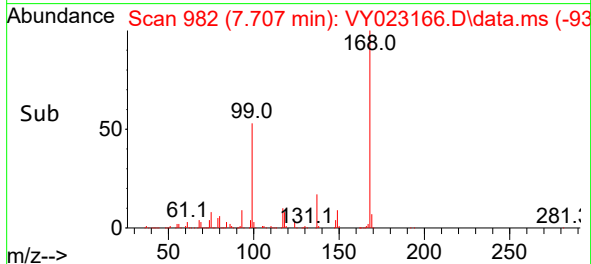
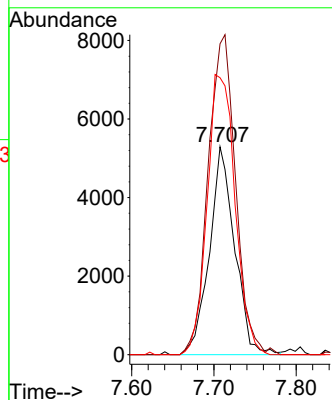
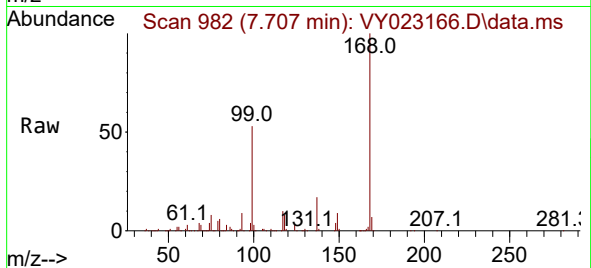




#31
Cyclohexane
Concen: 1.183 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

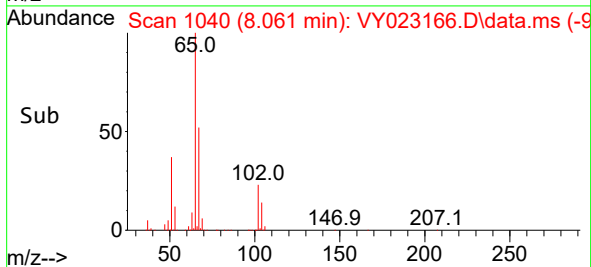
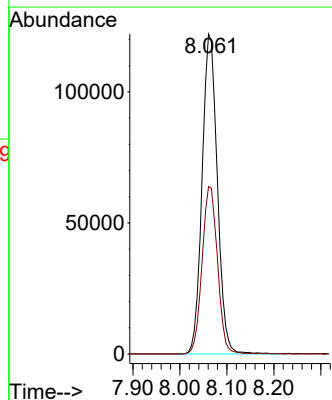
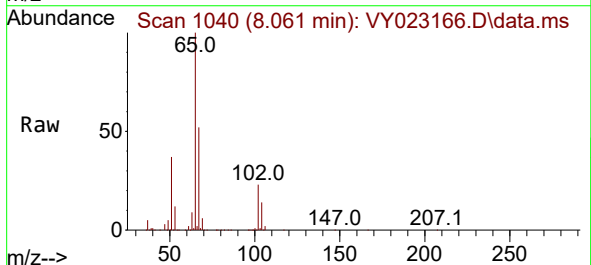
Instrument :
MSVOA_Y
ClientSampleId :

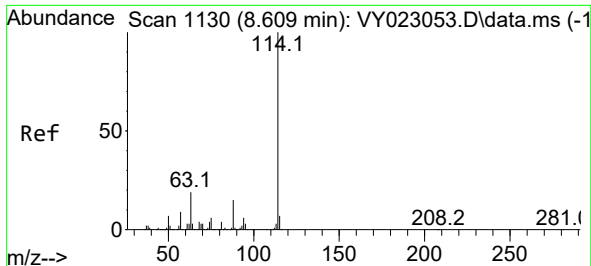
Tgt Ion: 56 Resp: 11318
Ion Ratio Lower Upper
56 100
69 149.6 28.2 42.2#
84 133.3 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 53.602 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

Tgt Ion: 65 Resp: 275365
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023166.D

Acq: 20 Aug 2025 11:27

Instrument :

MSVOA_Y

ClientSampleId :

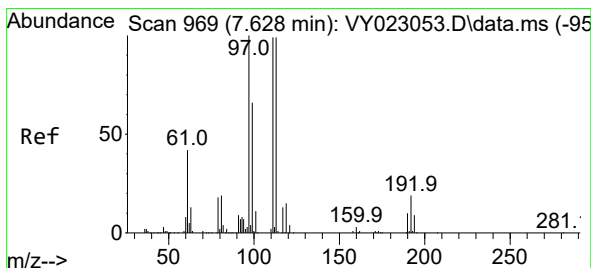
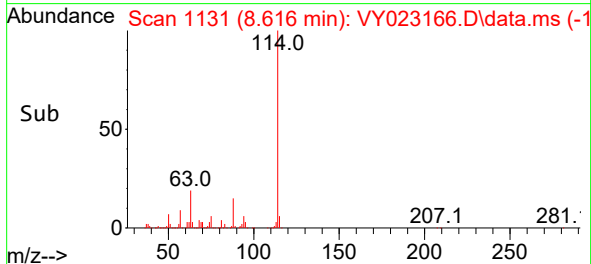
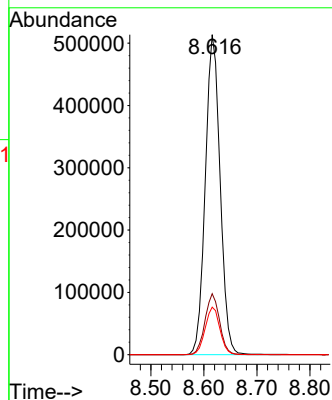
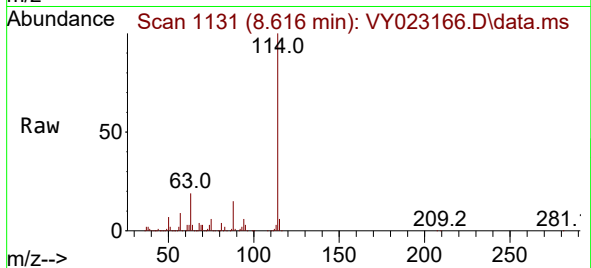
Tgt Ion:114 Resp: 995282

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.4

88 14.9 0.0 30.0



#35

Dibromofluoromethane

Concen: 52.338 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.006 min

Lab File: VY023166.D

Acq: 20 Aug 2025 11:27

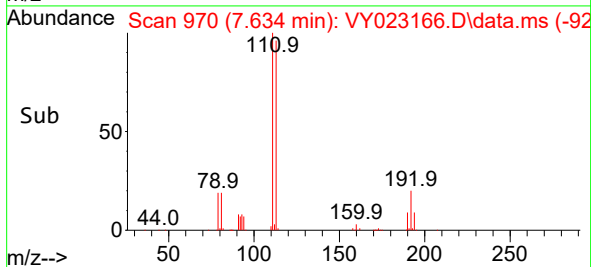
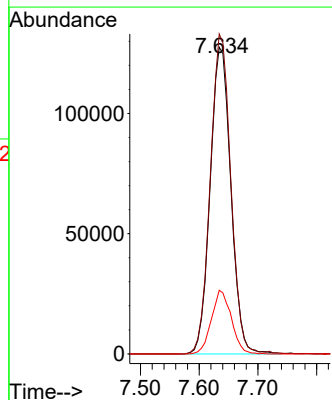
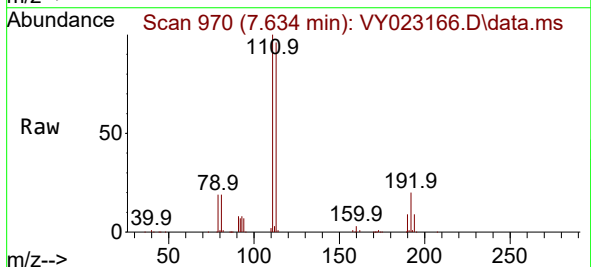
Tgt Ion:113 Resp: 311698

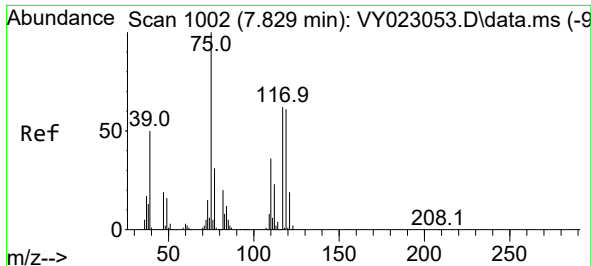
Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

192 20.0 16.2 24.4





#36

1,1-Dichloropropene

Concen: 4.544 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.122 min

Lab File: VY023166.D

Acq: 20 Aug 2025 11:27

Instrument :

MSVOA_Y

ClientSampleId :

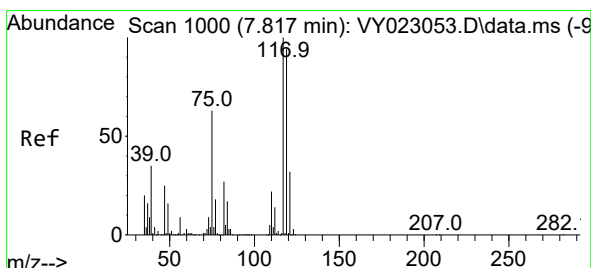
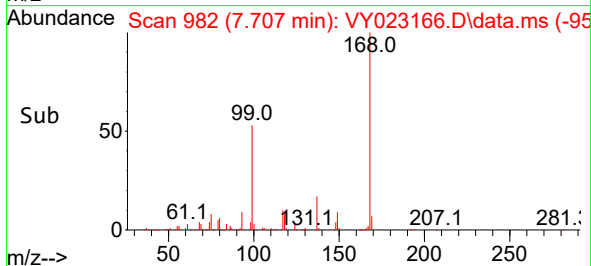
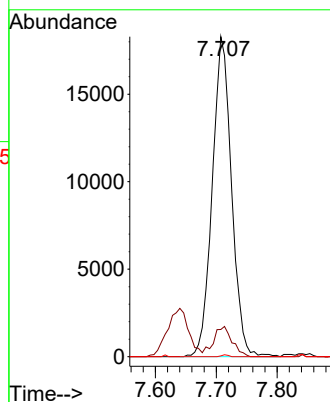
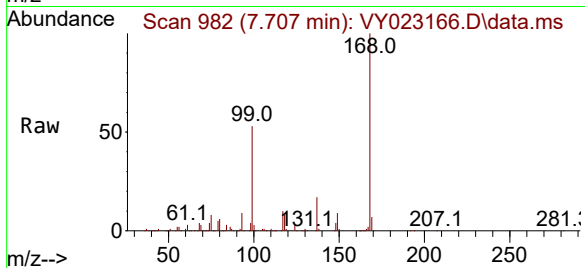
Tgt Ion: 75 Resp: 40213

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

77 0.2 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.391 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023166.D

Acq: 20 Aug 2025 11:27

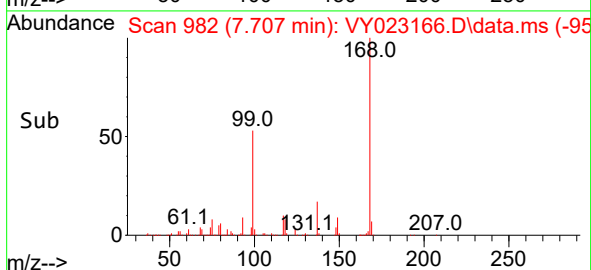
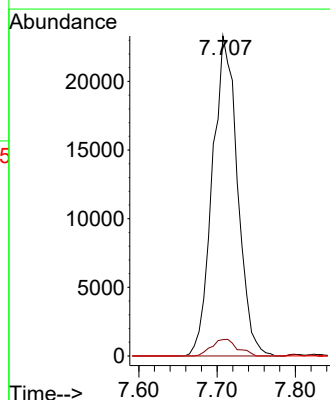
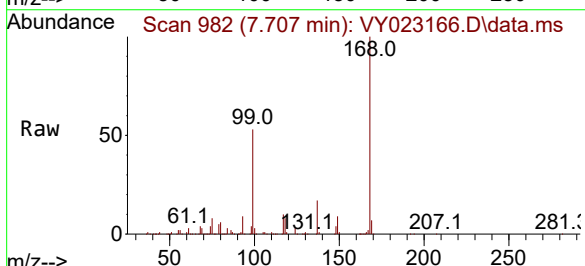
Tgt Ion: 117 Resp: 51823

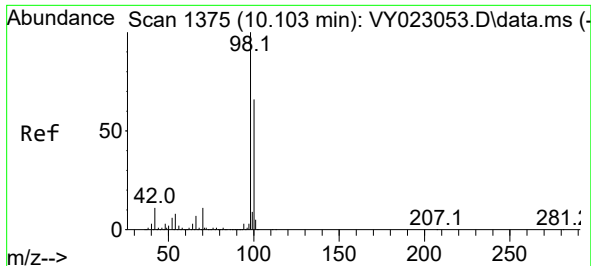
Ion Ratio Lower Upper

117 100

119 5.1 75.6 113.4#

121 0.0 25.8 38.8#

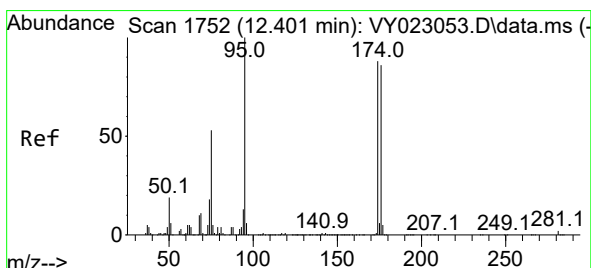
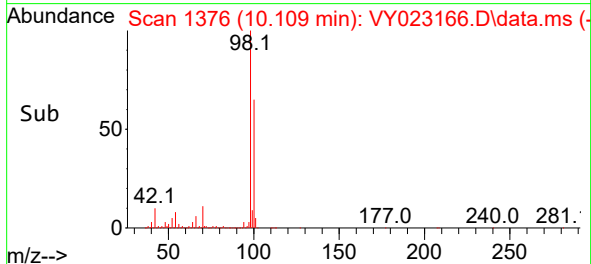
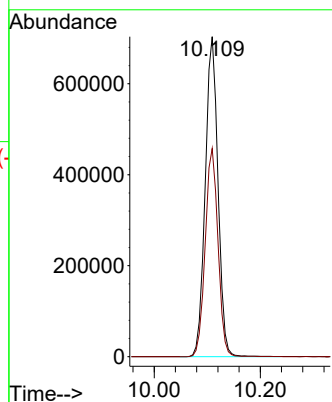
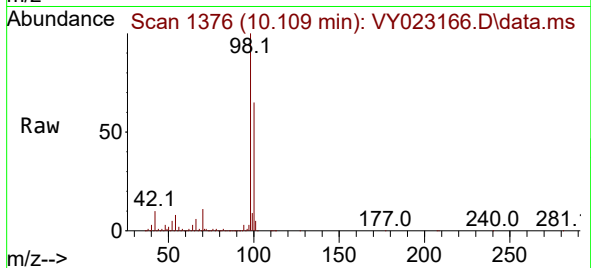




#50
Toluene-d8
Concen: 50.276 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

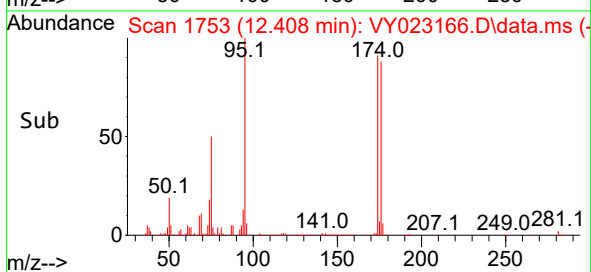
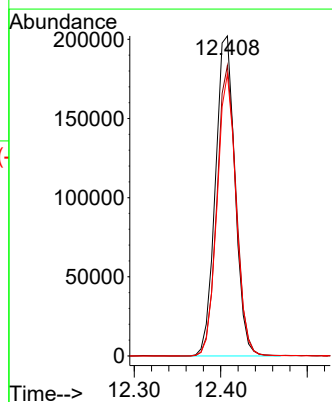
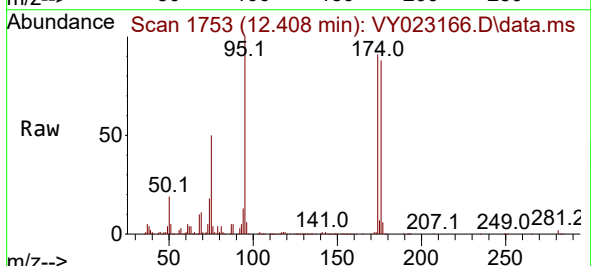
Instrument :
MSVOA_Y
ClientSampleId :

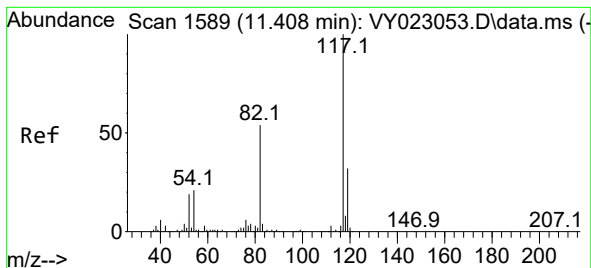
Tgt Ion: 98 Resp: 1169704
Ion Ratio Lower Upper
98 100
100 65.1 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 42.409 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

Tgt Ion: 95 Resp: 317312
Ion Ratio Lower Upper
95 100
174 89.3 0.0 171.6
176 85.7 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023166.D

Acq: 20 Aug 2025 11:27

Instrument :

MSVOA_Y

ClientSampleId :

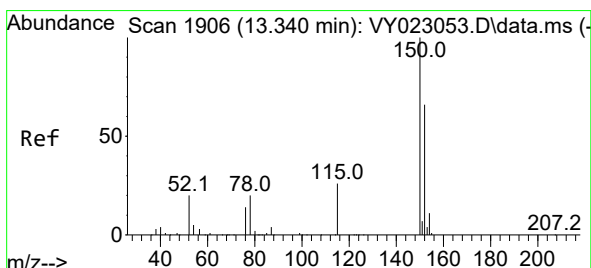
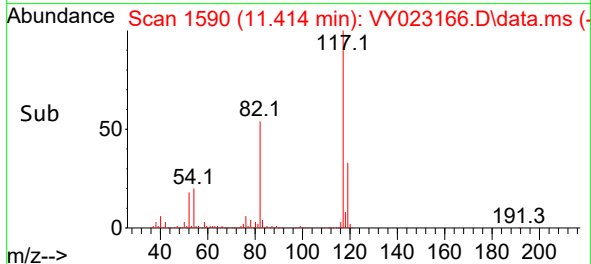
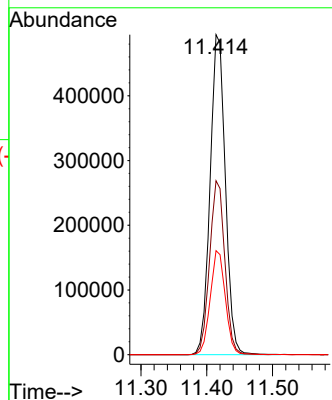
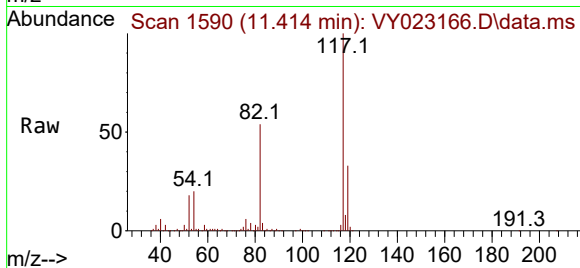
Tgt Ion:117 Resp: 798711

Ion Ratio Lower Upper

117 100

82 54.4 43.4 65.0

119 32.5 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023166.D

Acq: 20 Aug 2025 11:27

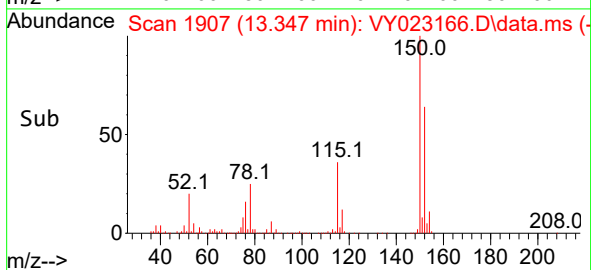
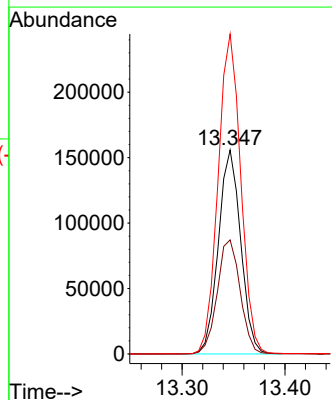
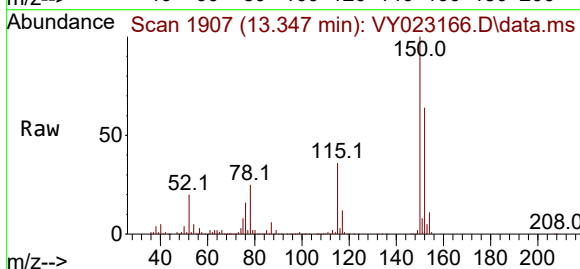
Tgt Ion:152 Resp: 234966

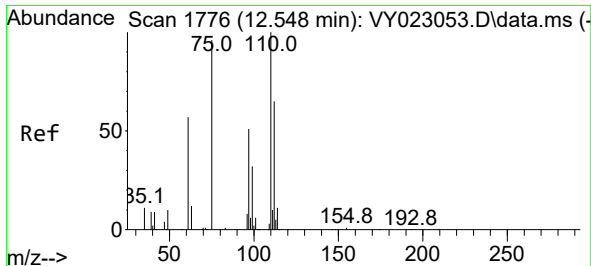
Ion Ratio Lower Upper

152 100

115 57.3 28.2 84.6

150 159.3 0.0 348.0

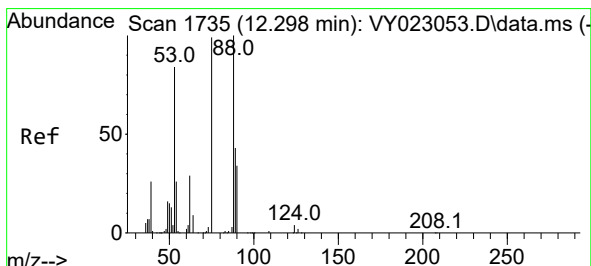
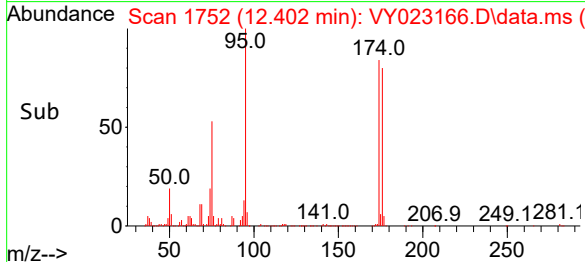
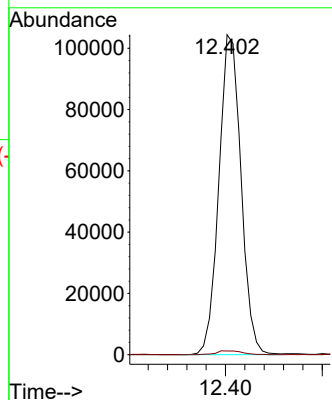
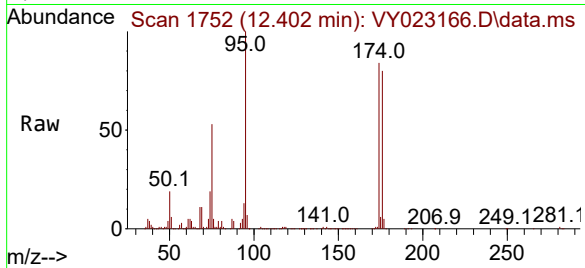




#76
1,2,3-Trichloropropane
Concen: 73.048 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 165649
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 176.826 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023166.D
Acq: 20 Aug 2025 11:27

Tgt Ion: 75 Resp: 165649
Ion Ratio Lower Upper
75 100
53 0.2 70.8 106.2#
89 0.0 38.1 57.1#

