

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
 Data File : VY023536.D
 Acq On : 21 Oct 2025 15:47
 Operator : SY/MD
 Sample : Q3403-03
 Misc : 4.73g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MH-18-VOC

Quant Time: Oct 24 01:37:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

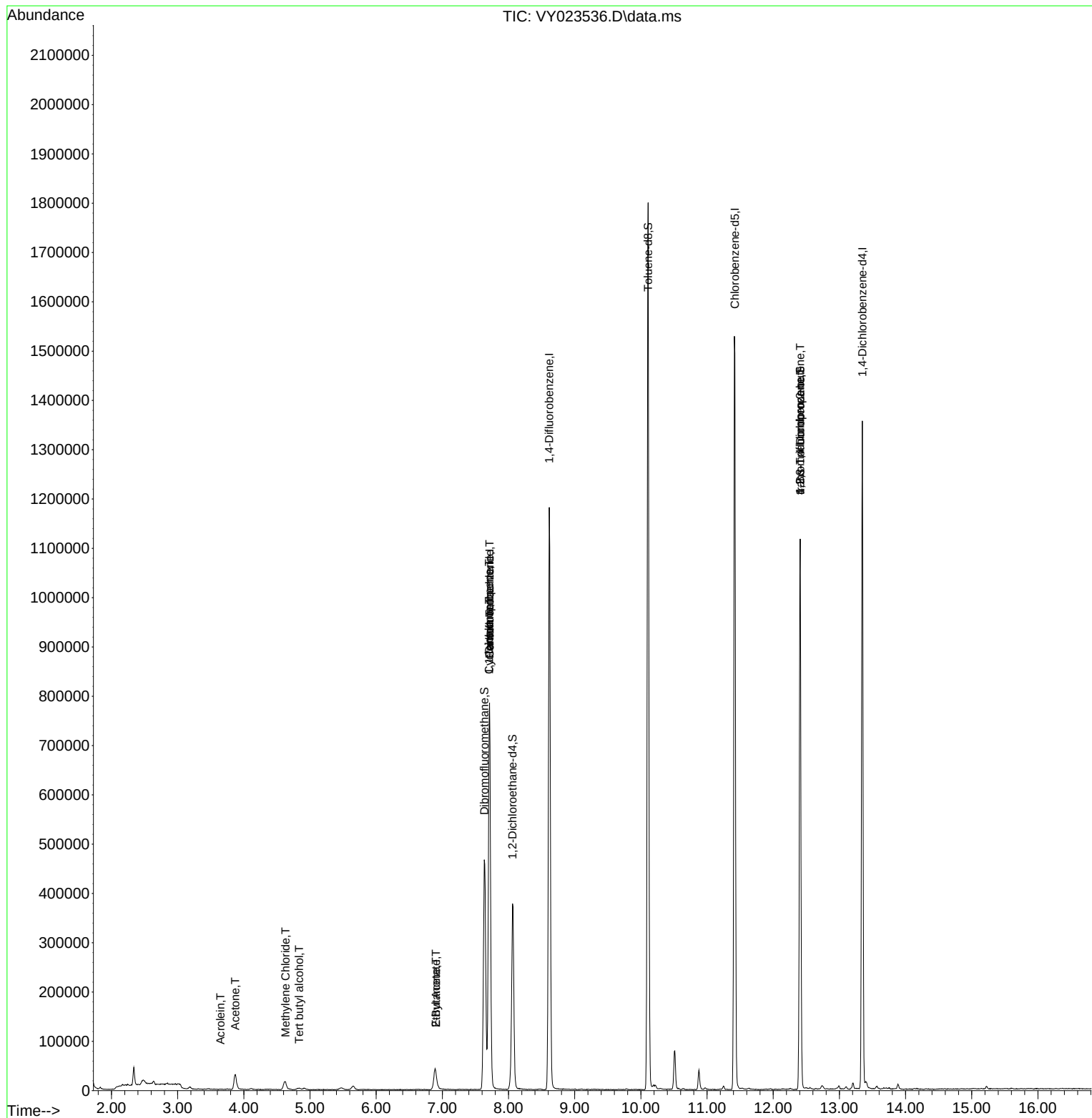
Internal Standards						
1) Pentafluorobenzene	7.713	168	672015	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1083964	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	900115	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	364081	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	279559	49.748	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.500%
35) Dibromofluoromethane	7.634	113	340172	51.073	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.140%
50) Toluene-d8	10.109	98	1211307	48.835	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.660%
62) 4-Bromofluorobenzene	12.408	95	331935	40.534	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.060%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.836	59	3024	7.233	ug/l #	72
13) Acrolein	3.647	56	754	1.276	ug/l #	15
16) Acetone	3.873	43	52890	39.534	ug/l	98
20) Methylene Chloride	4.629	84	13814	1.910	ug/l #	88
25) 2-Butanone	6.903	43	13448	8.234	ug/l	95
31) Cyclohexane	7.707	56	11166	1.194	ug/l #	7
36) 1,1-Dichloropropene	7.707	75	42270	4.794	ug/l #	47
37) Ethyl Acetate	6.903	43	13448	3.850	ug/l #	85
38) Carbon Tetrachloride	7.713	117	60314	5.641	ug/l #	16
76) 1,2,3-Trichloropropane	12.408	75	158407	49.315	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	158407	120.929	ug/l #	15

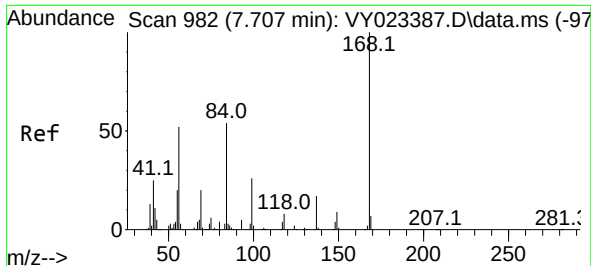
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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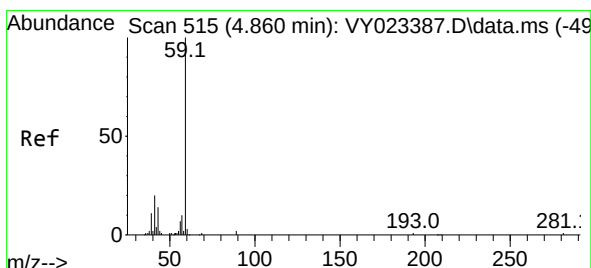
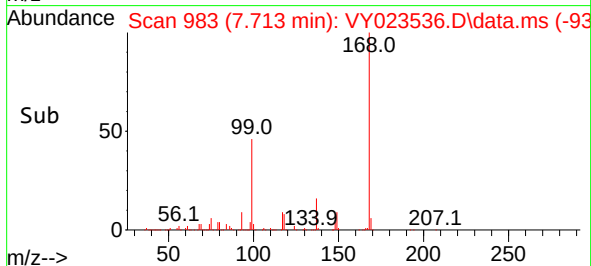
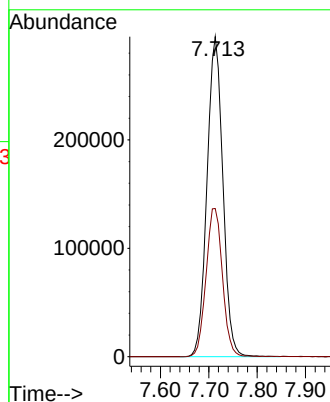
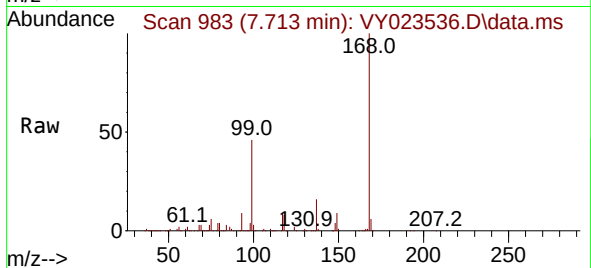




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

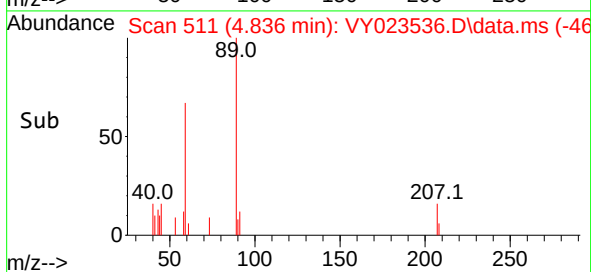
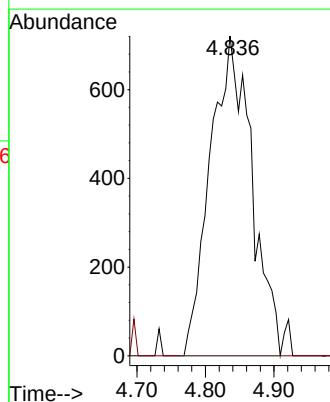
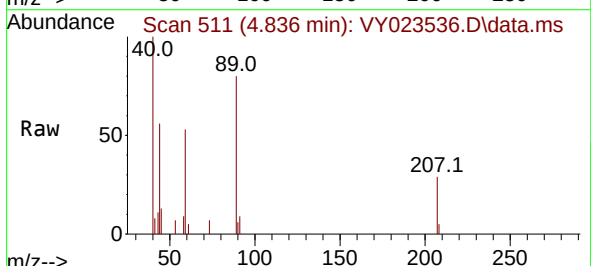
Instrument :
MSVOA_Y
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MH-18-VOC

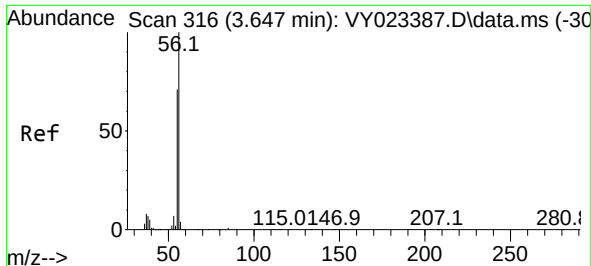
Tgt Ion:168 Resp: 672015
Ion Ratio Lower Upper
168 100
99 46.3 39.7 59.5



#11
Tert butyl alcohol
Concen: 7.233 ug/l
RT: 4.836 min Scan# 511
Delta R.T. -0.024 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

Tgt Ion: 59 Resp: 3024
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

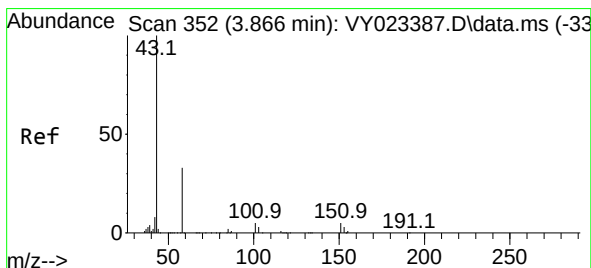
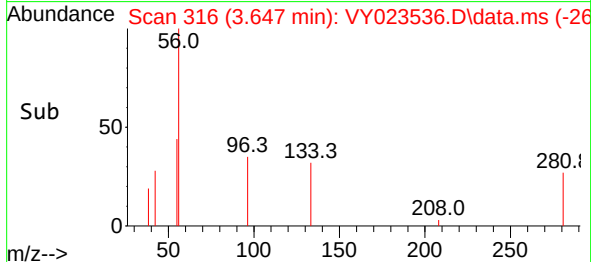
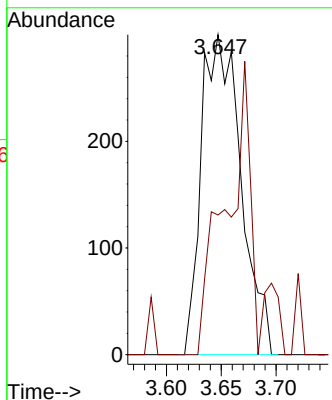
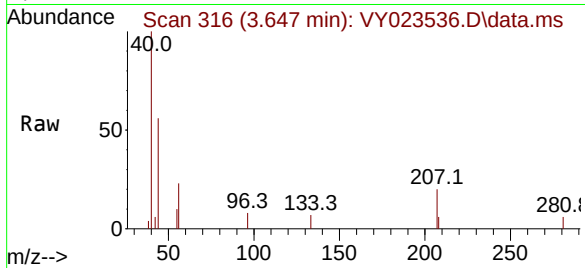




#13
Acrolein
Concen: 1.276 ug/l
RT: 3.647 min Scan# 316
Delta R.T. 0.000 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

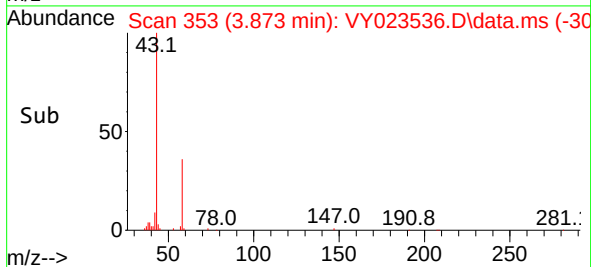
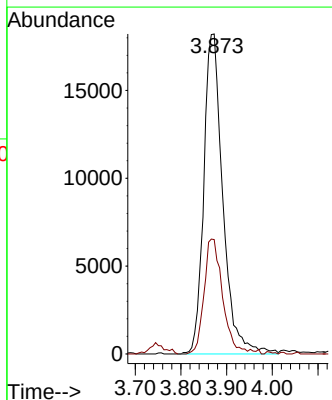
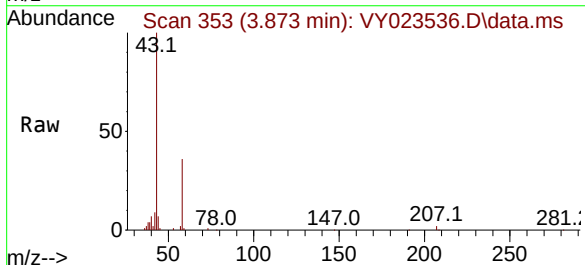
Instrument :
MSVOA_Y
ClientSampleId :
MH-18-VOC

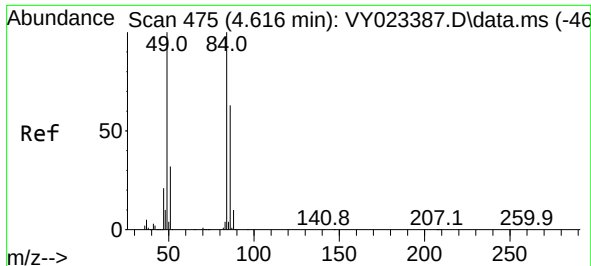
Tgt Ion: 56 Resp: 754
Ion Ratio Lower Upper
56 100
55 0.0 56.1 84.1#



#16
Acetone
Concen: 39.534 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

Tgt Ion: 43 Resp: 52890
Ion Ratio Lower Upper
43 100
58 35.7 27.7 41.5

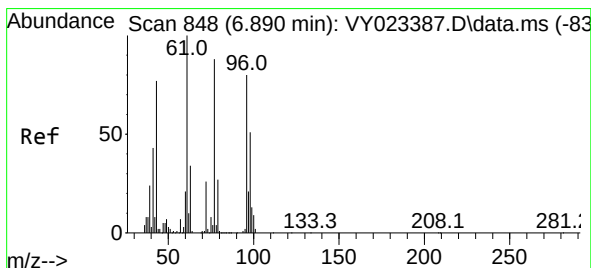
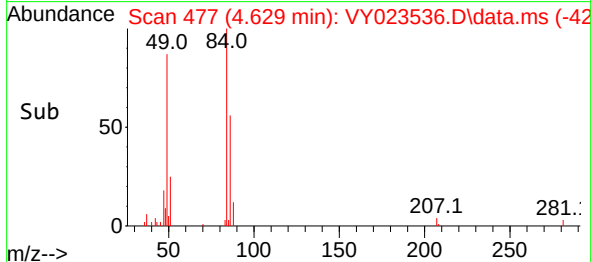
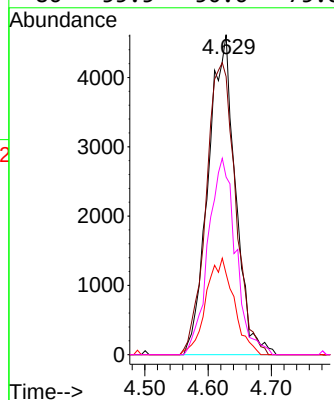
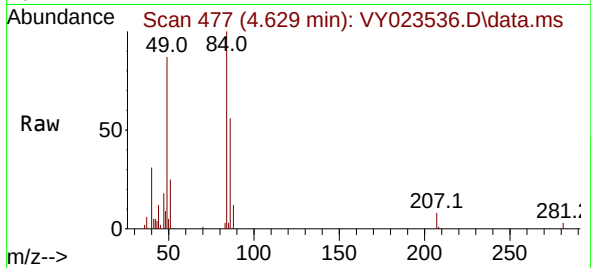




#20
Methylene Chloride
Concen: 1.910 ug/l
RT: 4.629 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

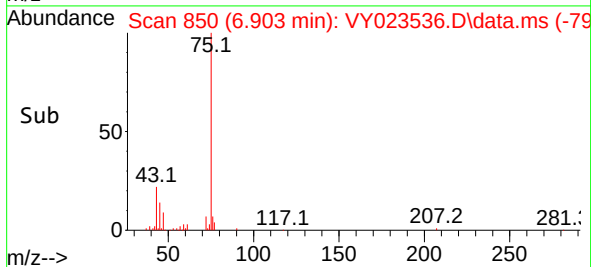
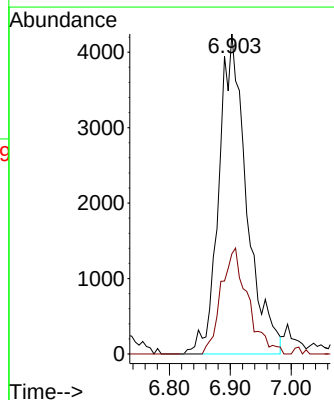
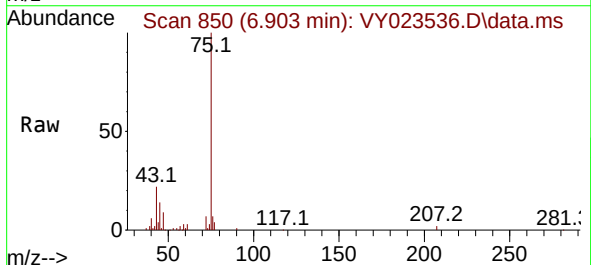
Instrument :
MSVOA_Y
ClientSampleId :
MH-18-VOC

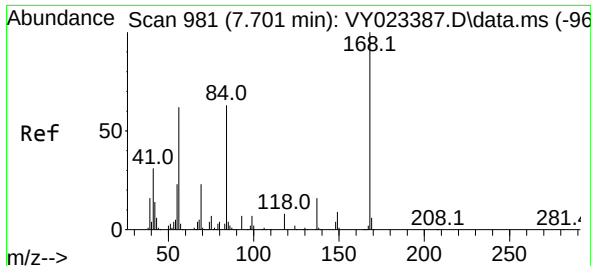
Tgt Ion: 84 Resp: 13814
Ion Ratio Lower Upper
84 100
49 86.9 80.2 120.4
51 25.2 25.9 38.9#
86 55.5 50.6 75.8



#25
2-Butanone
Concen: 8.234 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

Tgt Ion: 43 Resp: 13448
Ion Ratio Lower Upper
43 100
72 31.3 27.4 41.2

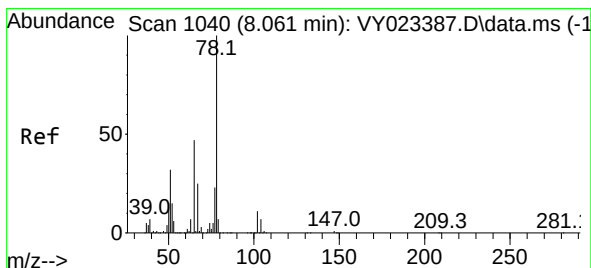
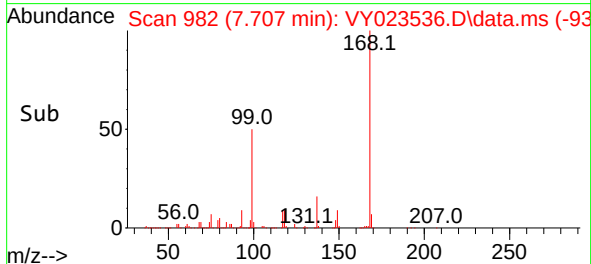
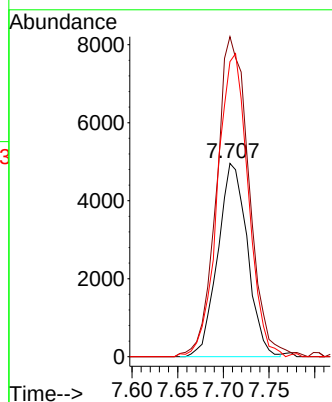
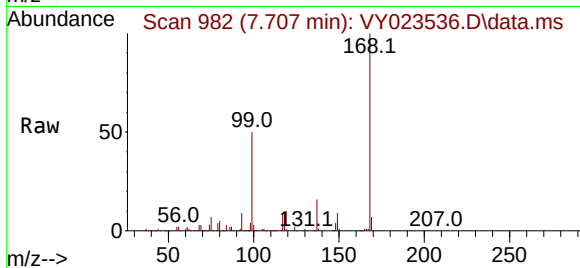




#31
Cyclohexane
Concen: 1.194 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

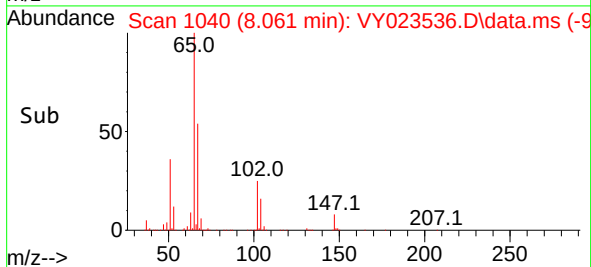
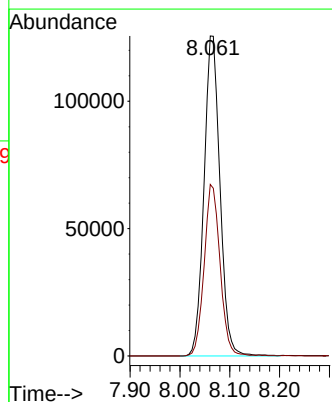
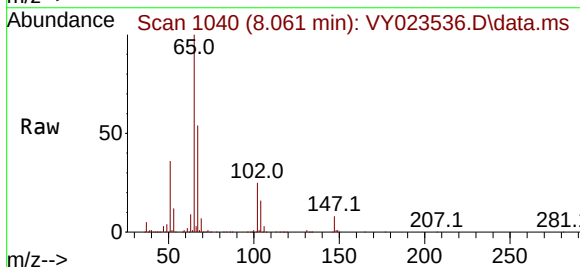
Instrument :
MSVOA_Y
ClientSampleId :
MH-18-VOC

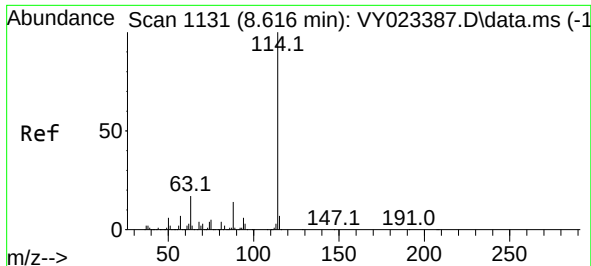
Tgt Ion: 56 Resp: 11166
Ion Ratio Lower Upper
56 100
69 163.8 30.0 45.0#
84 151.0 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 49.748 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

Tgt Ion: 65 Resp: 279559
Ion Ratio Lower Upper
65 100
67 53.3 0.0 105.8

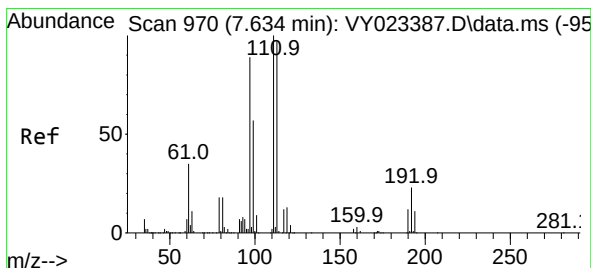
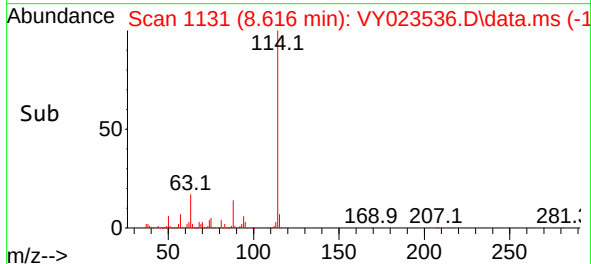
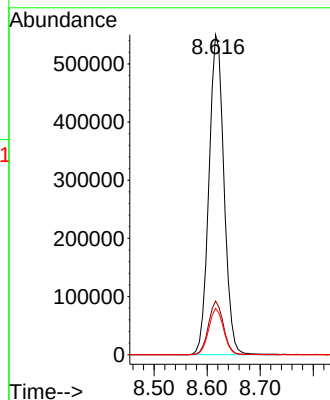
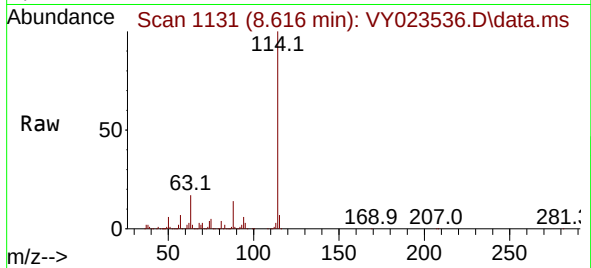




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

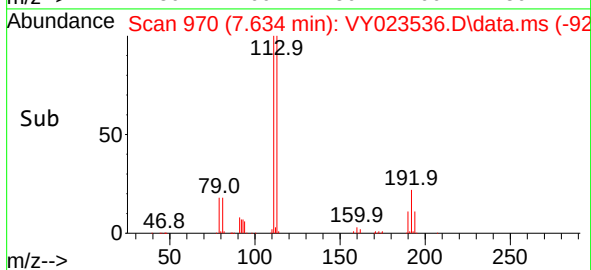
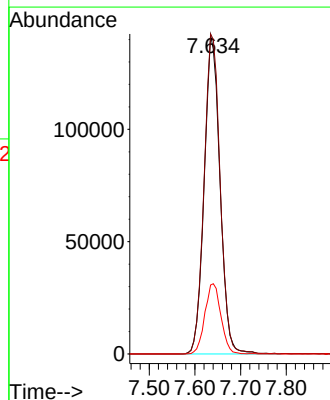
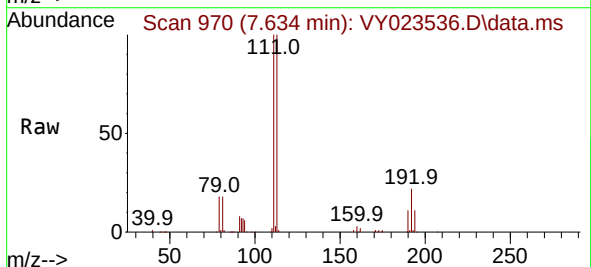
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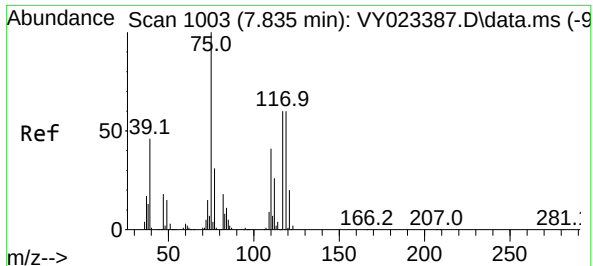
Tgt Ion:114 Resp: 1083964
Ion Ratio Lower Upper
114 100
63 16.8 0.0 34.2
88 14.5 0.0 28.4



#35
Dibromofluoromethane
Concen: 51.073 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

Tgt Ion:113 Resp: 340172
Ion Ratio Lower Upper
113 100
111 102.3 81.8 122.6
192 22.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.794 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY023536.D

Acq: 21 Oct 2025 15:47

Instrument :

MSVOA_Y

ClientSampleId :

MH-18-VOC

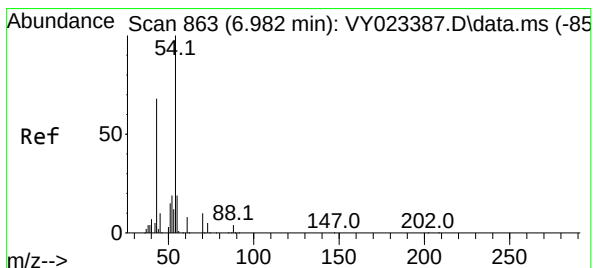
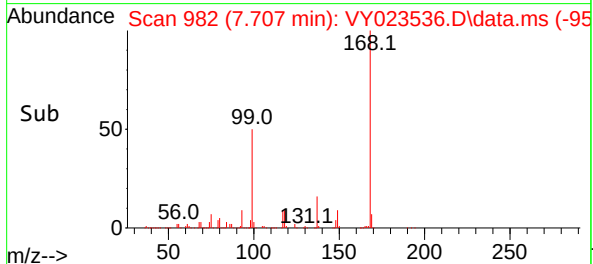
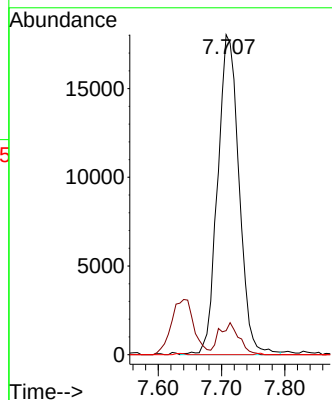
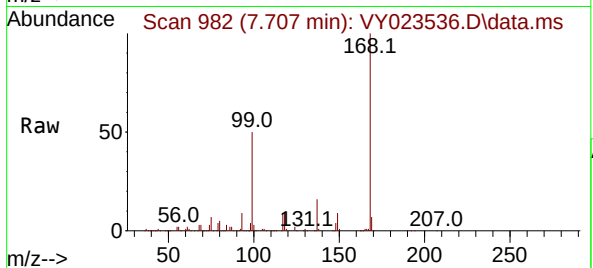
Tgt Ion: 75 Resp: 42270

Ion Ratio Lower Upper

75 100

110 9.1 19.9 59.7#

77 0.0 25.0 37.6#



#37

Ethyl Acetate

Concen: 3.850 ug/l

RT: 6.903 min Scan# 850

Delta R.T. -0.079 min

Lab File: VY023536.D

Acq: 21 Oct 2025 15:47

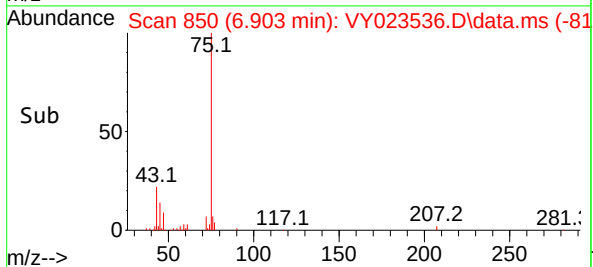
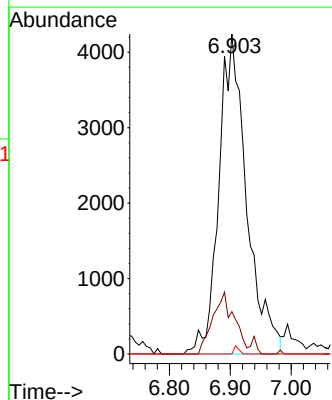
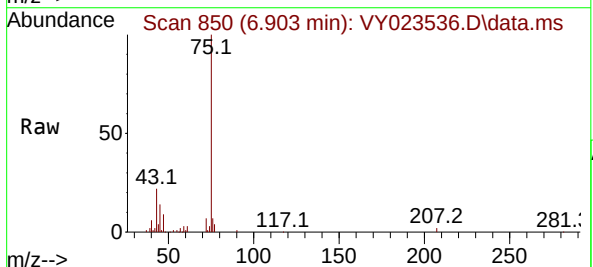
Tgt Ion: 43 Resp: 13448

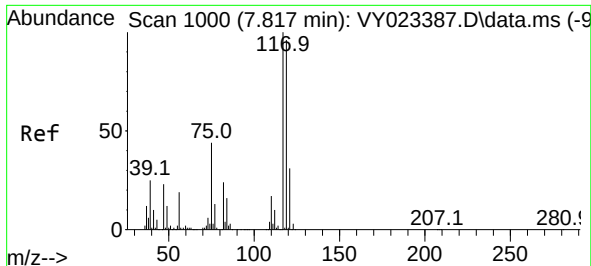
Ion Ratio Lower Upper

43 100

61 15.0 11.8 17.8

70 0.4 10.5 15.7#

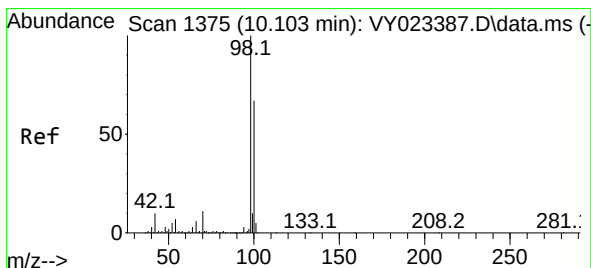
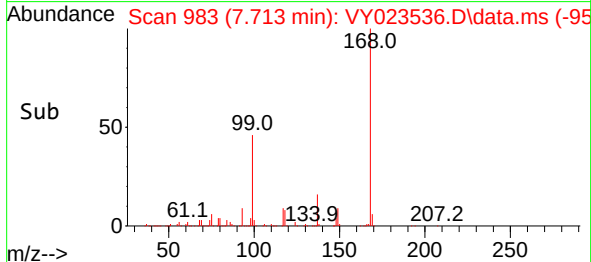
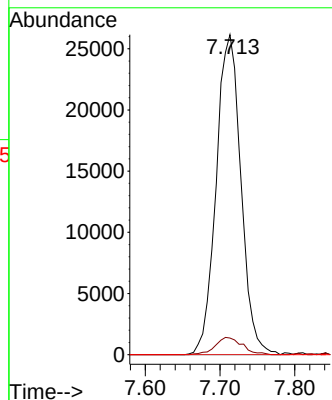
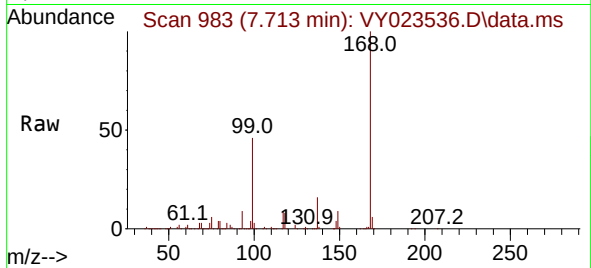




#38
Carbon Tetrachloride
Concen: 5.641 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

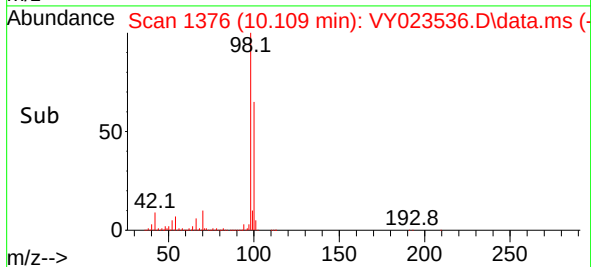
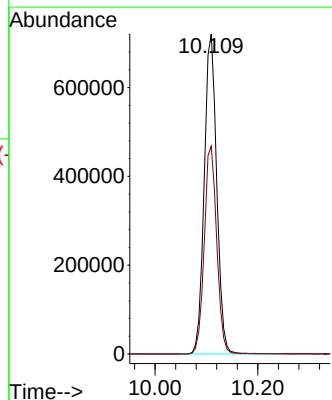
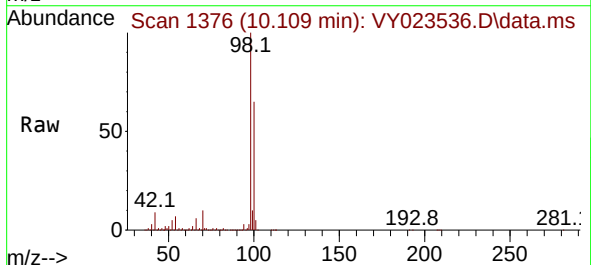
Instrument :
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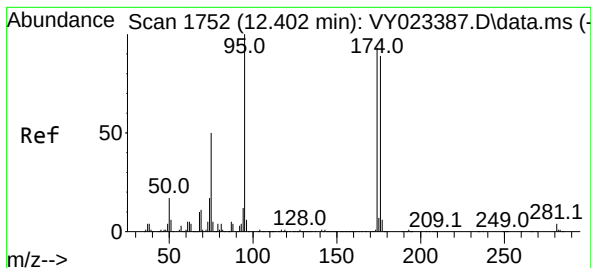
Tgt Ion:117 Resp: 60314
Ion Ratio Lower Upper
117 100
119 5.2 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 48.835 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023536.D
Acq: 21 Oct 2025 15:47

Tgt Ion: 98 Resp: 1211307
Ion Ratio Lower Upper
98 100
100 64.9 53.0 79.4





#62

4-Bromofluorobenzene

Concen: 40.534 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023536.D

Acq: 21 Oct 2025 15:47

Instrument :

MSVOA_Y

ClientSampleId :

MH-18-VOC

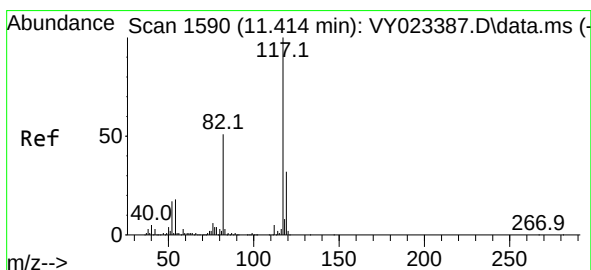
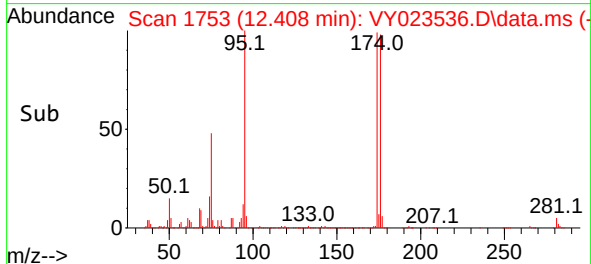
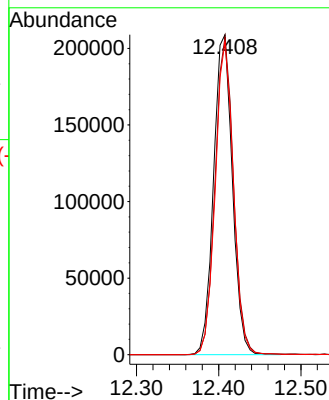
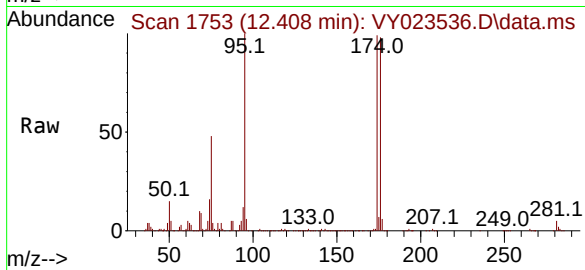
Tgt Ion: 95 Resp: 331935

Ion Ratio Lower Upper

95 100

174 97.3 0.0 192.8

176 94.7 0.0 187.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY023536.D

Acq: 21 Oct 2025 15:47

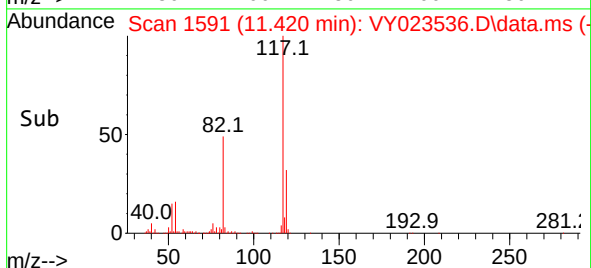
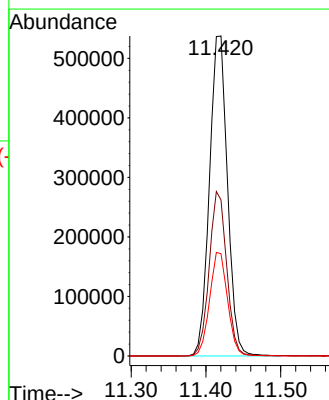
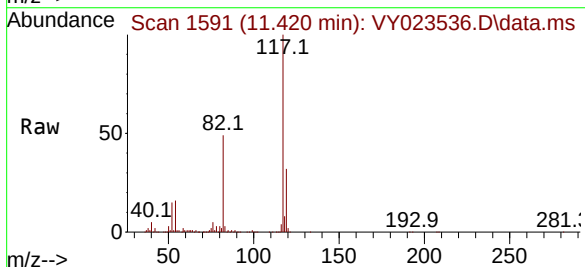
Tgt Ion: 117 Resp: 900115

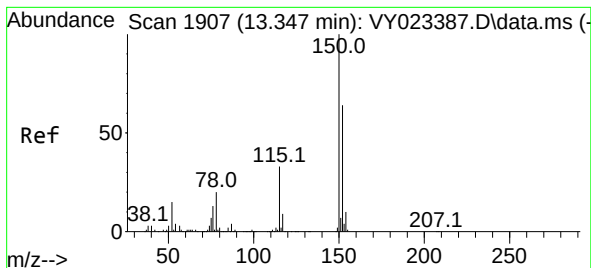
Ion Ratio Lower Upper

117 100

82 48.8 41.0 61.4

119 31.9 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023536.D

Acq: 21 Oct 2025 15:47

Instrument :

MSVOA_Y

ClientSampleId :

MH-18-VOC

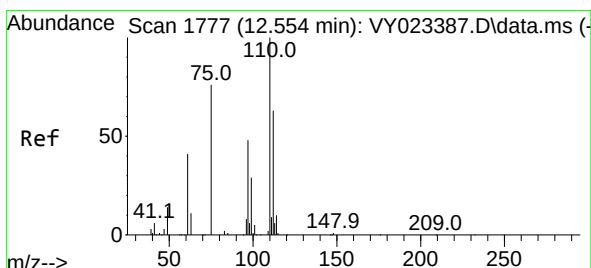
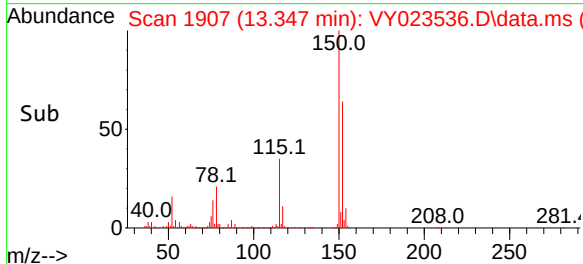
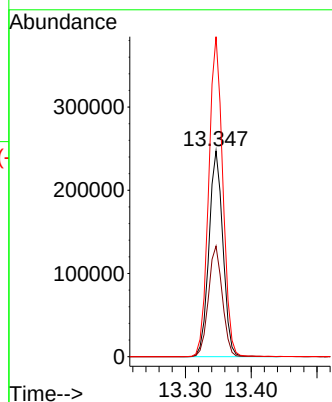
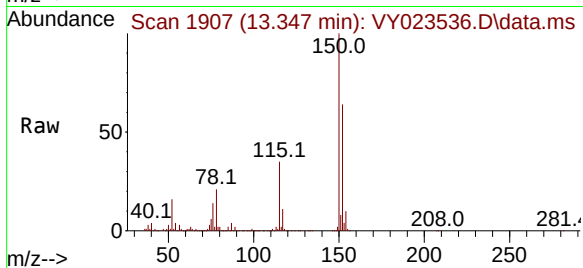
Tgt Ion:152 Resp: 364081

Ion Ratio Lower Upper

152 100

115 53.8 27.1 81.2

150 157.7 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 49.315 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023536.D

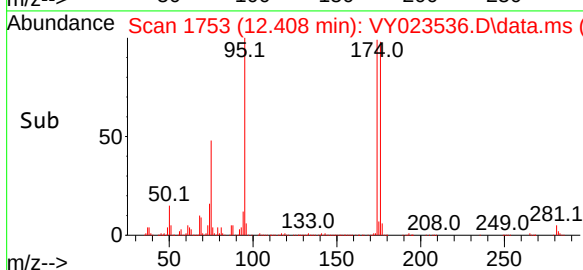
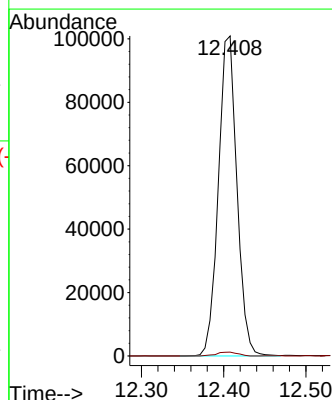
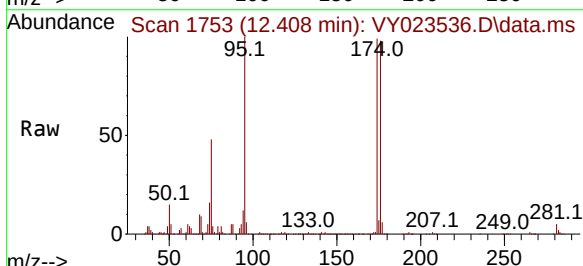
Acq: 21 Oct 2025 15:47

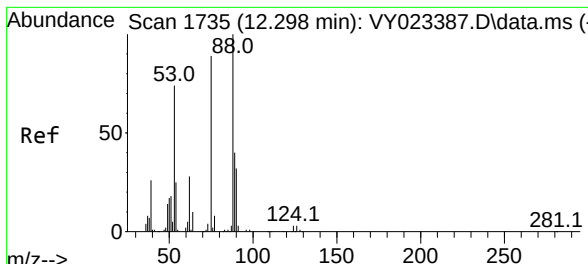
Tgt Ion: 75 Resp: 158407

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 120.929 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY023536.D
 Acq: 21 Oct 2025 15:47

Instrument :
 MSVOA_Y
 ClientSampleId :
 MH-18-VOC

Tgt Ion: 75 Resp: 158407
 Ion Ratio Lower Upper
 75 100
 53 0.2 68.6 102.8#
 89 0.0 39.0 58.4#

