

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102725\
 Data File : VY023590.D
 Acq On : 27 Oct 2025 11:43
 Operator : SY/MD
 Sample : Q3465-01
 Misc : 5.19g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-10242025

Quant Time: Oct 28 04:38:22 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)

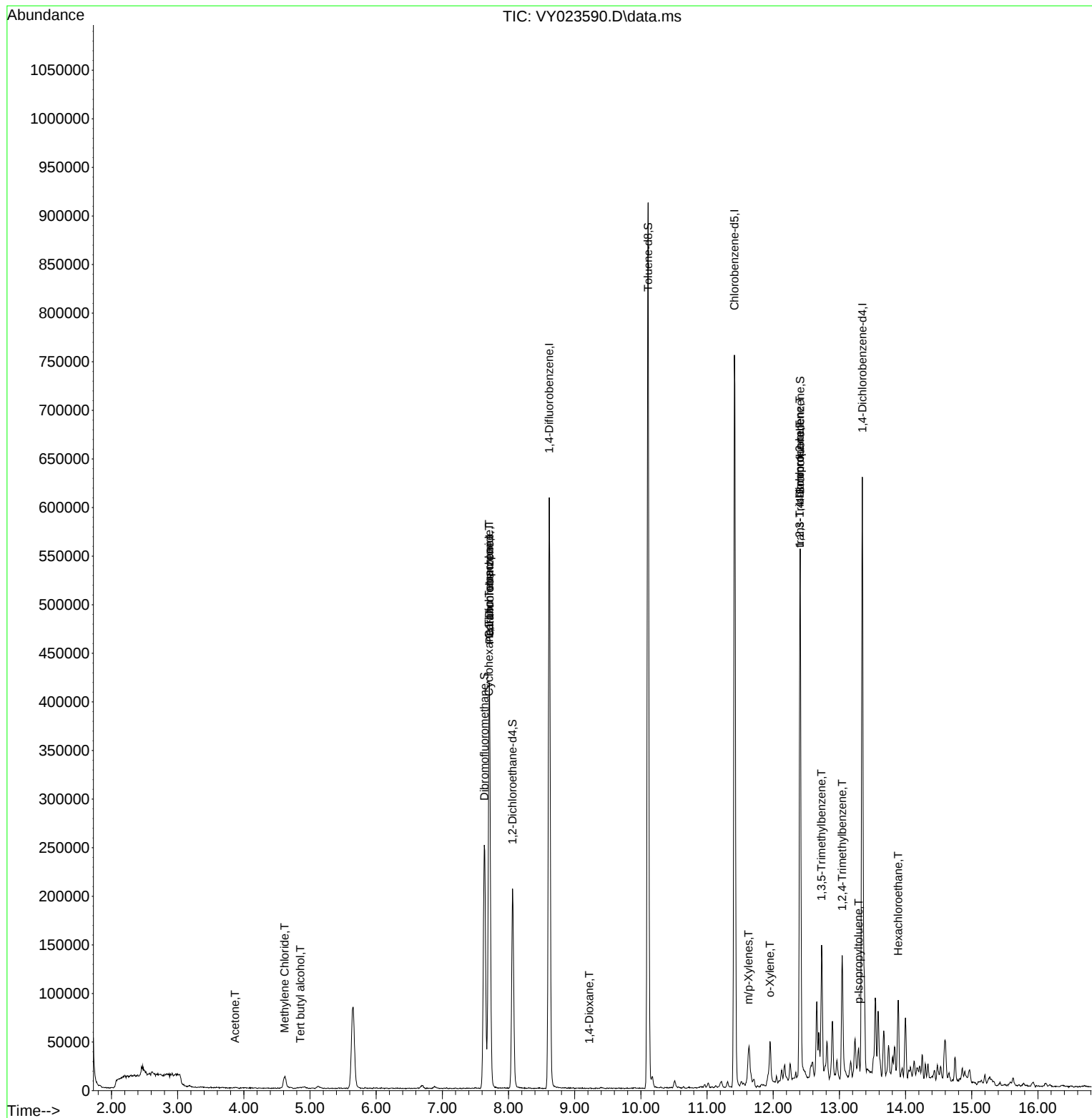
Internal Standards						
1) Pentafluorobenzene	7.713	168	353639	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	554641	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	442894	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	167558	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	153913	52.047	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.100%	
35) Dibromofluoromethane	7.634	113	179583	52.694	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.380%	
50) Toluene-d8	10.109	98	613249	48.319	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 96.640%	
62) 4-Bromofluorobenzene	12.408	95	163206	38.950	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 77.900%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	4.854	59	1188	5.400	ug/l	99
16) Acetone	3.866	43	778	1.105	ug/l #	76
20) Methylene Chloride	4.616	84	9296	2.442	ug/l	96
31) Cyclohexane	7.701	56	5781	1.175	ug/l #	5
36) 1,1-Dichloropropene	7.707	75	22943	5.085	ug/l #	48
38) Carbon Tetrachloride	7.707	117	32751	5.986	ug/l #	16
49) 1,4-Dioxane	9.219	88	29	1.253	ug/l #	30
68) m/p-Xylenes	11.627	106	9635	1.541	ug/l	90
69) o-Xylene	11.950	106	10877	1.854	ug/l	90
76) 1,2,3-Trichloropropane	12.401	75	79089	53.500	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.731	105	43948	4.925	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.401	75	79089	131.191	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.042	105	67621	7.594	ug/l	98
86) p-Isopropyltoluene	13.292	119	12032	1.196	ug/l	95
90) Hexachloroethane	13.889	117	2269	1.048	ug/l #	6

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

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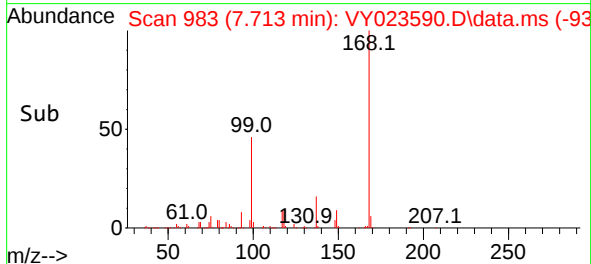
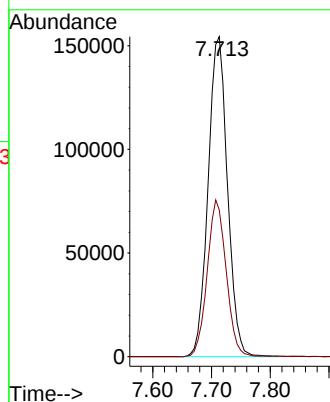
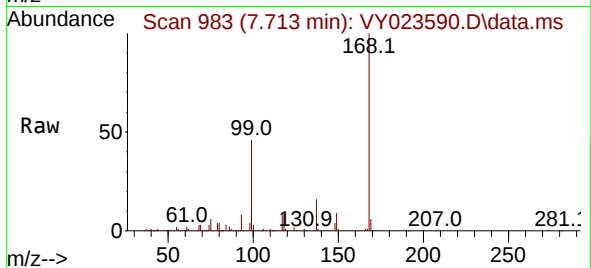




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

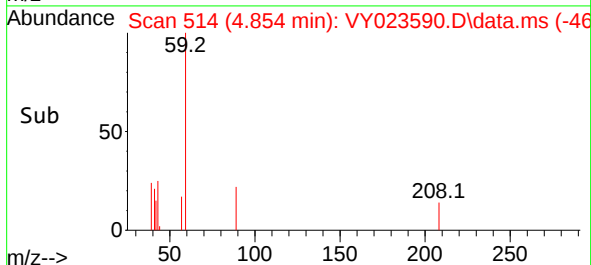
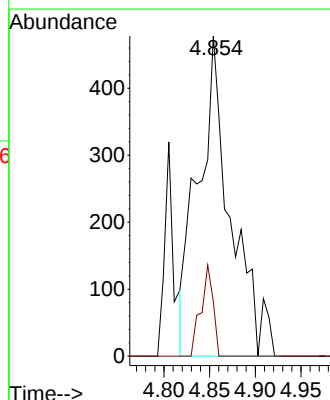
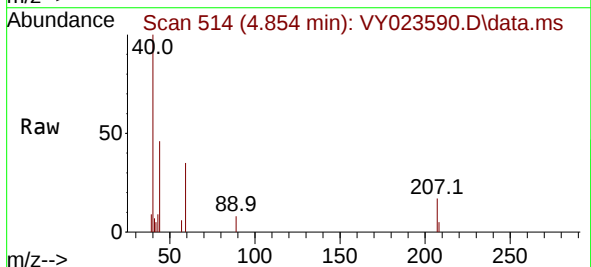
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-10242025

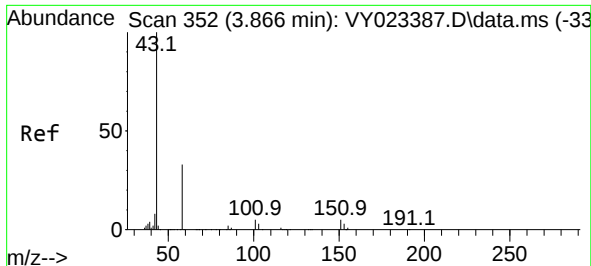
Tgt Ion:168 Resp: 353639
Ion Ratio Lower Upper
168 100
99 45.9 39.7 59.5



#11
Tert butyl alcohol
Concen: 5.400 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion: 59 Resp: 1188
Ion Ratio Lower Upper
59 100
57 10.6 8.3 12.5

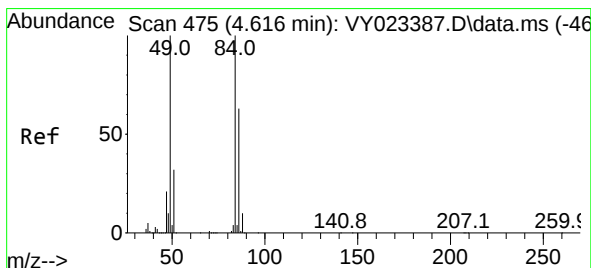
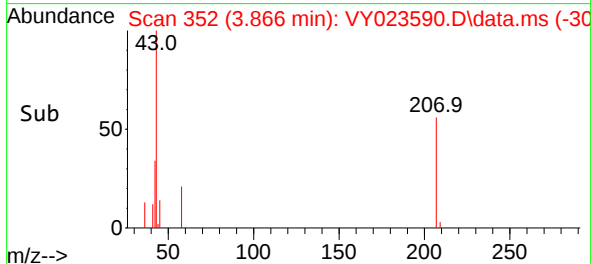
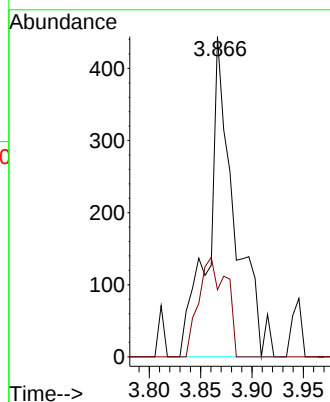
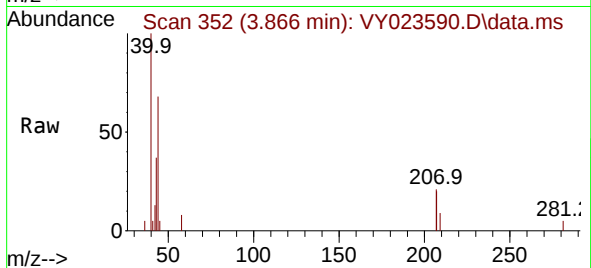




#16
Acetone
Concen: 1.105 ug/l
RT: 3.866 min Scan# 311
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

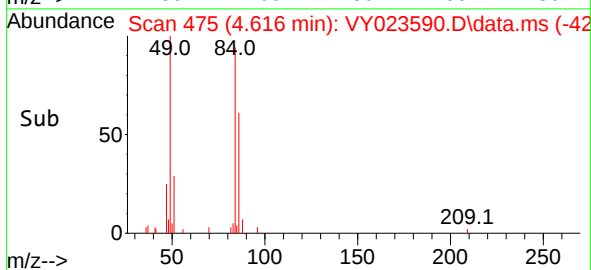
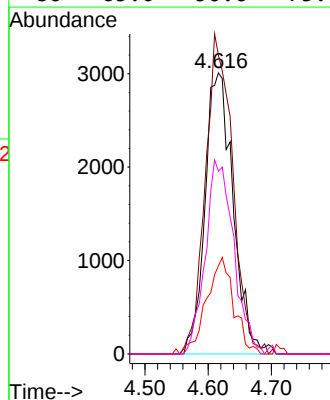
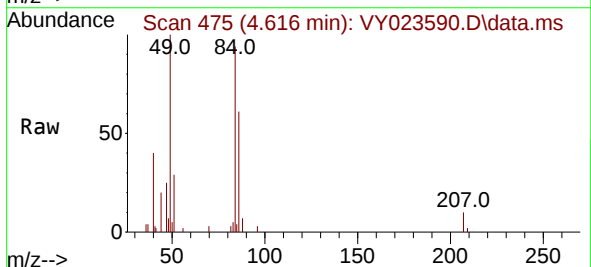
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-10242025

Tgt Ion: 43 Resp: 778
Ion Ratio Lower Upper
43 100
58 20.9 27.7 41.5#



#20
Methylene Chloride
Concen: 2.442 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion: 84 Resp: 9296
Ion Ratio Lower Upper
84 100
49 106.2 80.2 120.4
51 31.3 25.9 38.9
86 65.0 50.6 75.8

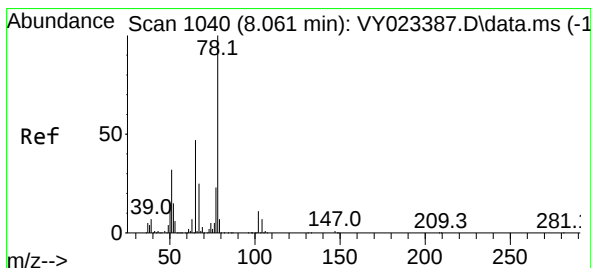
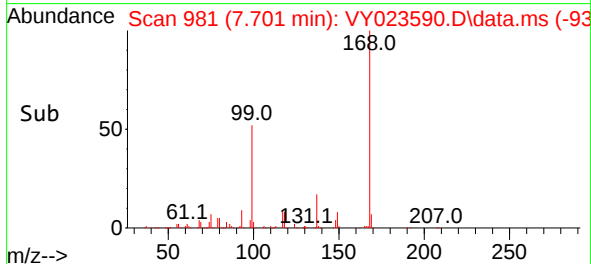
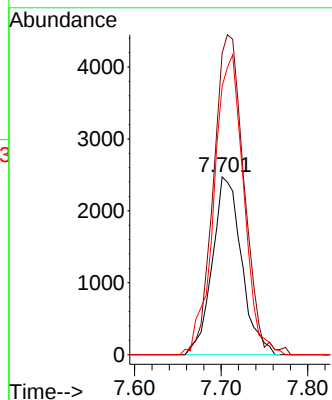
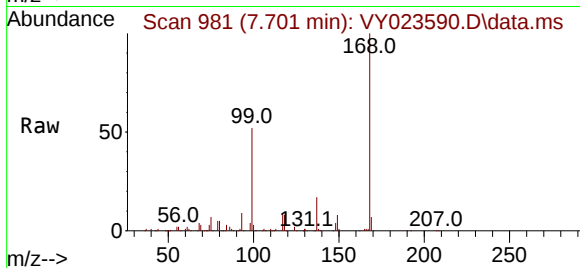




#31
Cyclohexane
Concen: 1.175 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

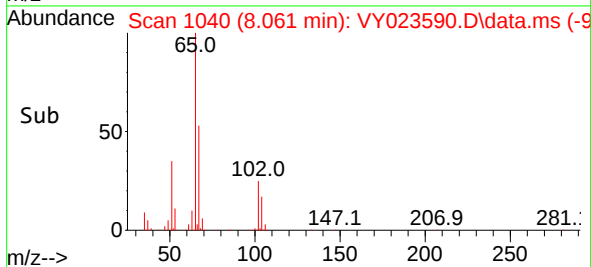
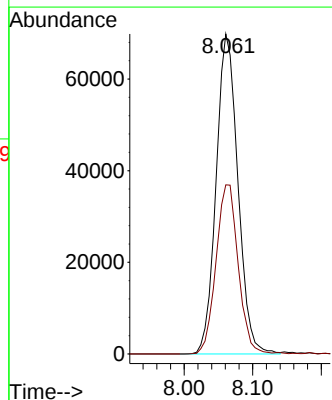
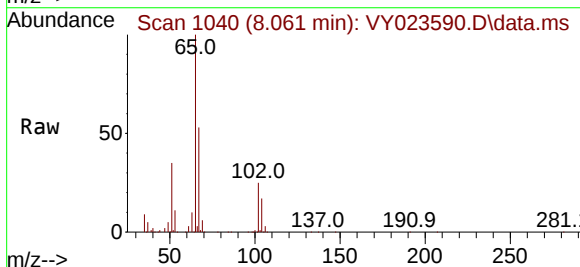
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-10242025

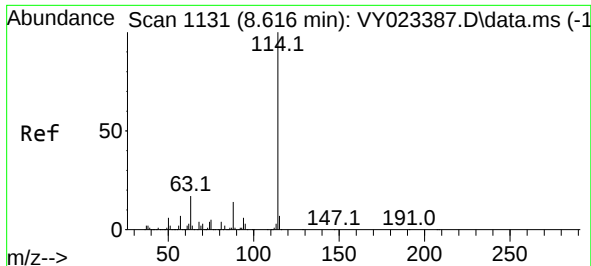
Tgt Ion: 56 Resp: 5781
Ion Ratio Lower Upper
56 100
69 169.6 30.0 45.0#
84 151.0 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 52.047 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion: 65 Resp: 153913
Ion Ratio Lower Upper
65 100
67 54.0 0.0 105.8

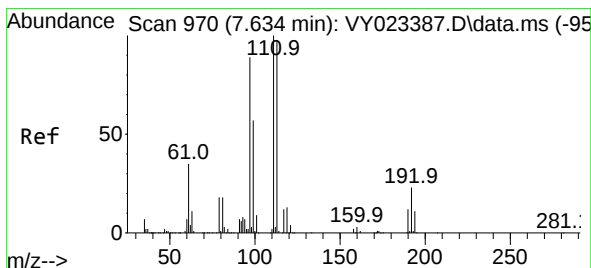
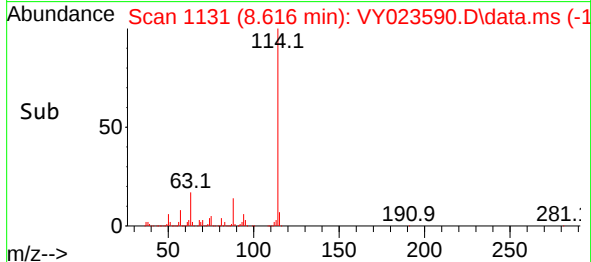
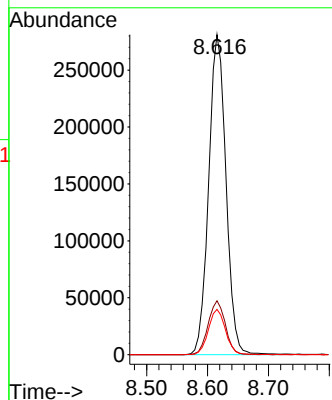
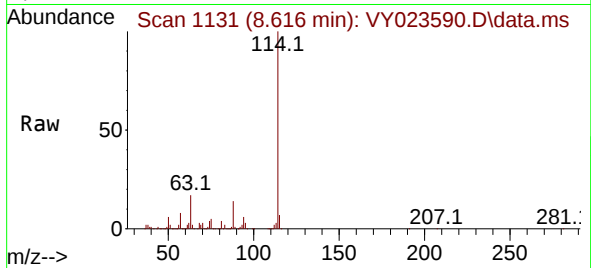




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

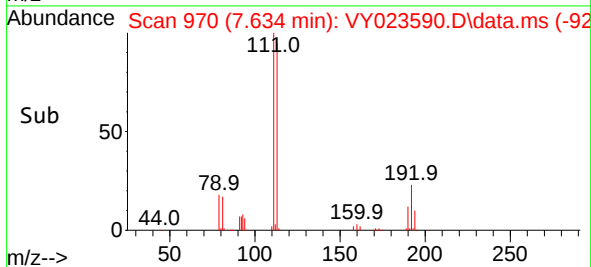
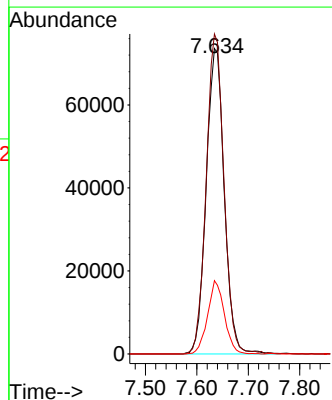
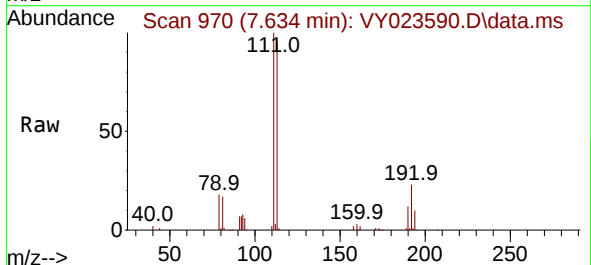
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-10242025

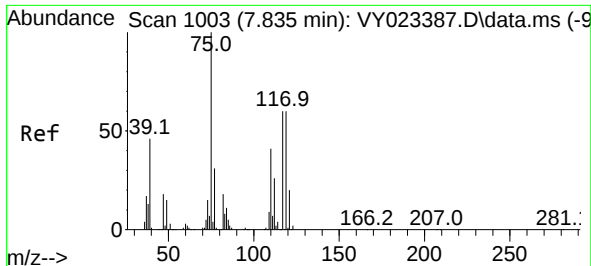
Tgt Ion:114 Resp: 554641
Ion Ratio Lower Upper
114 100
63 16.9 0.0 34.2
88 14.2 0.0 28.4



#35
Dibromofluoromethane
Concen: 52.694 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion:113 Resp: 179583
Ion Ratio Lower Upper
113 100
111 103.3 81.8 122.6
192 22.4 18.0 27.0





#36

1,1-Dichloropropene

Concen: 5.085 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023590.D

Acq: 27 Oct 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-10242025

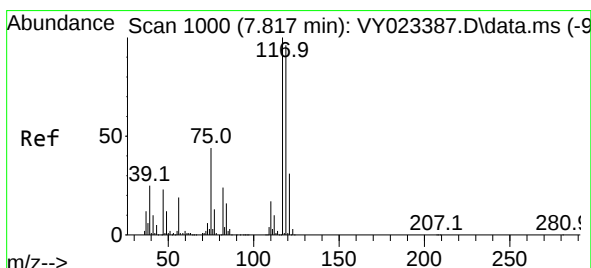
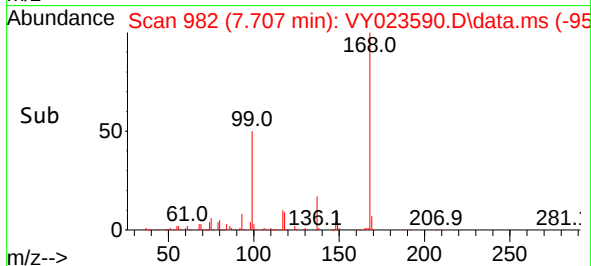
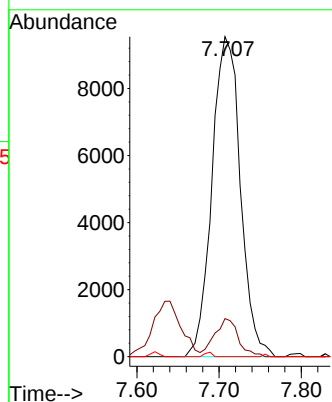
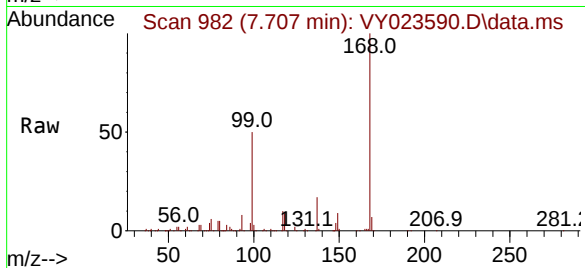
Tgt Ion: 75 Resp: 22943

Ion Ratio Lower Upper

75 100

110 9.9 19.9 59.7#

77 0.4 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.986 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023590.D

Acq: 27 Oct 2025 11:43

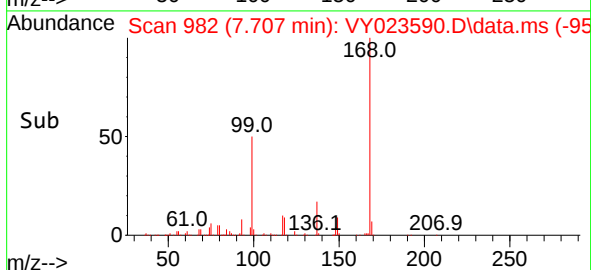
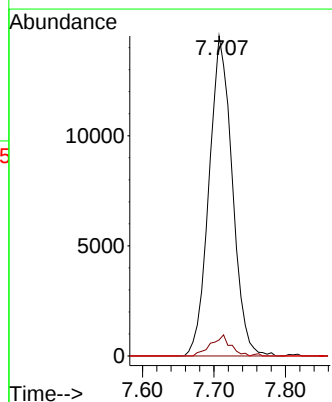
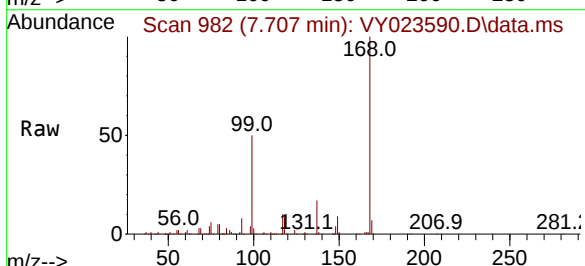
Tgt Ion: 117 Resp: 32751

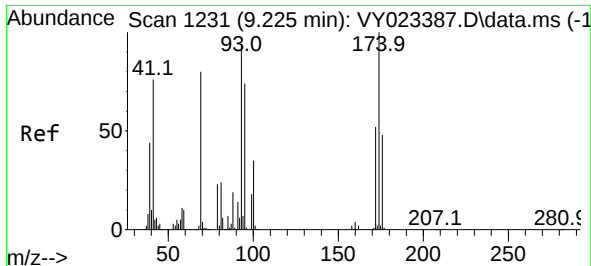
Ion Ratio Lower Upper

117 100

119 5.0 76.8 115.2#

121 0.0 24.5 36.7#





#49

1,4-Dioxane

Concen: 1.253 ug/l

RT: 9.219 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY023590.D

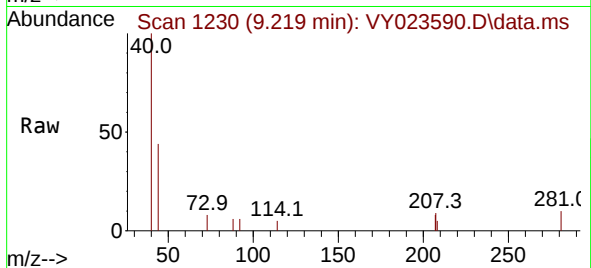
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Instrument :

MSVOA_Y

ClientSampleId :

SU-03-10242025



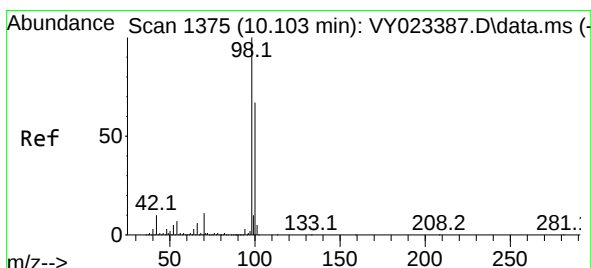
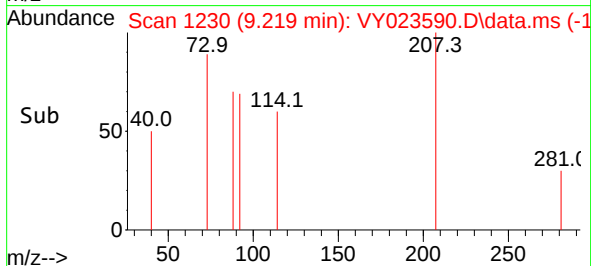
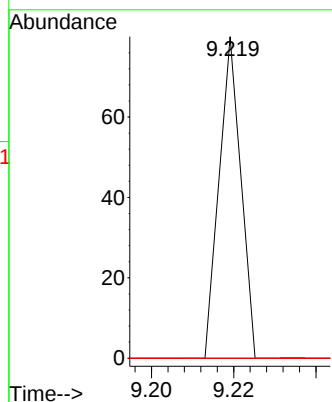
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 21.8 32.8#

58 0.0 46.8 70.2#



#50

Toluene-d8

Concen: 48.319 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023590.D

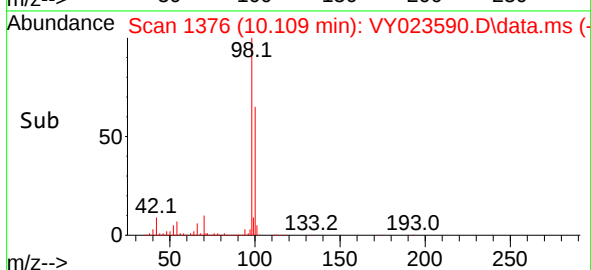
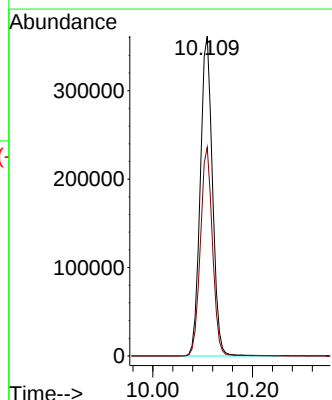
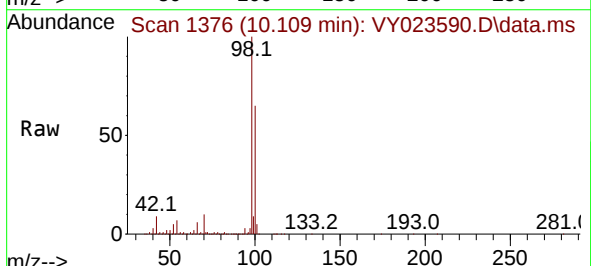
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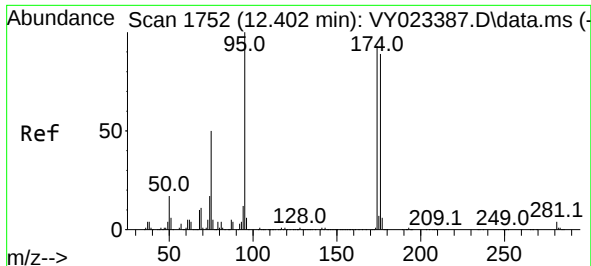
Tgt Ion: 98 Resp: 613249

Ion Ratio Lower Upper

98 100

100 64.5 53.0 79.4

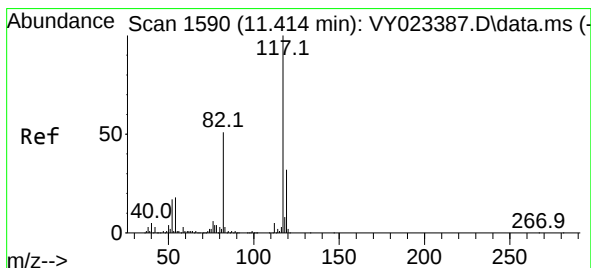
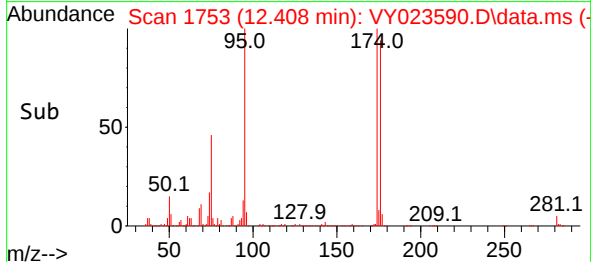
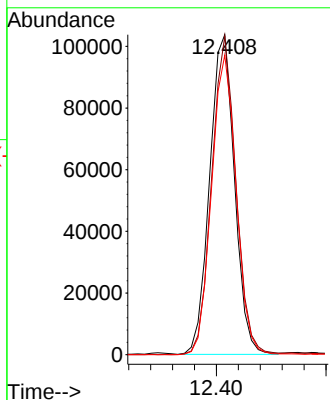
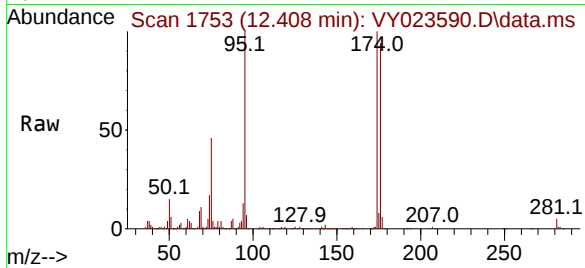




#62
4-Bromofluorobenzene
Concen: 38.950 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

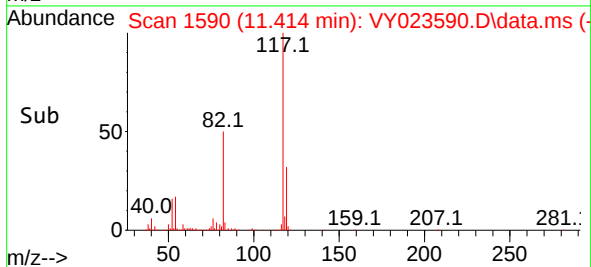
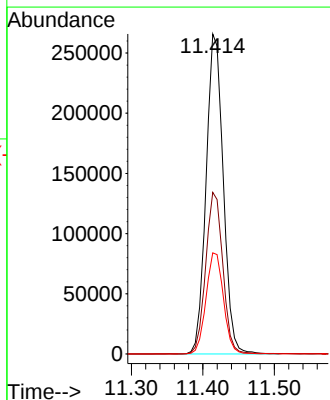
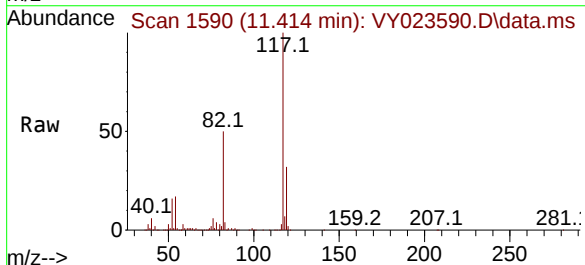
Instrument :
MSVOA_Y
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SU-03-10242025

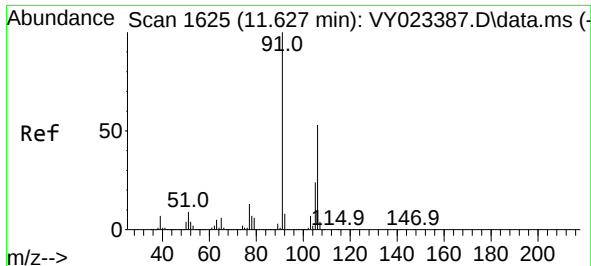
Tgt Ion: 95 Resp: 163206
Ion Ratio Lower Upper
95 100
174 97.2 0.0 192.8
176 93.0 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion: 117 Resp: 442894
Ion Ratio Lower Upper
117 100
82 50.4 41.0 61.4
119 31.6 25.6 38.4

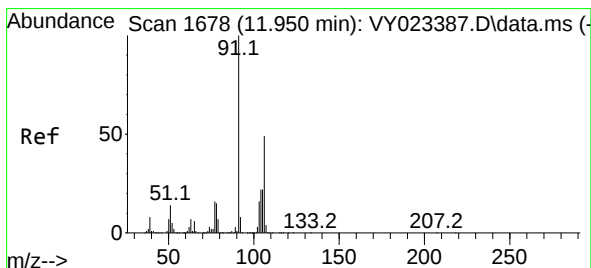
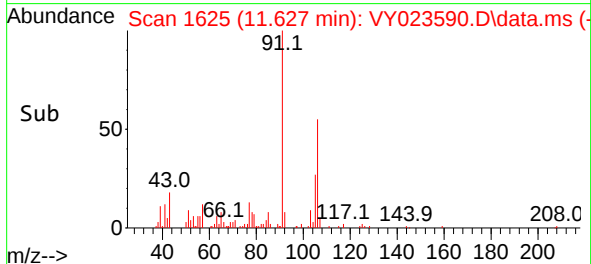
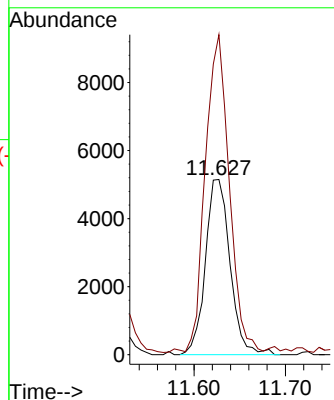
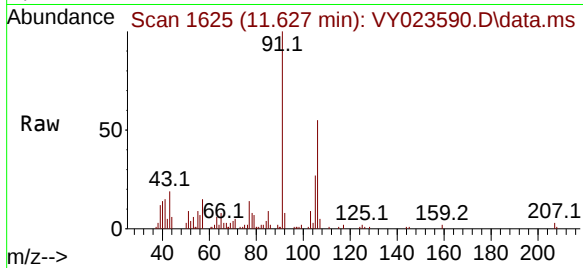




#68
m/p-Xylenes
Concen: 1.541 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

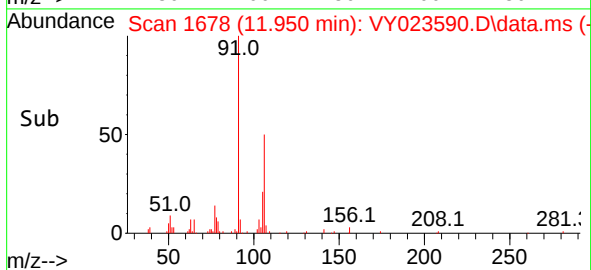
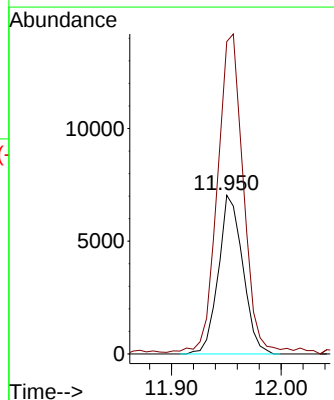
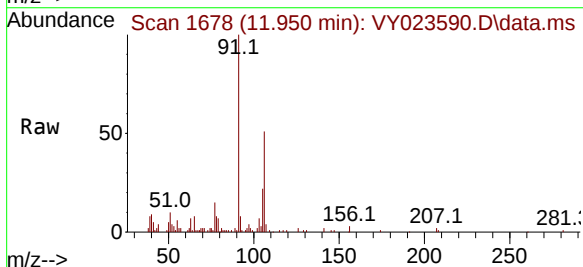
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-10242025

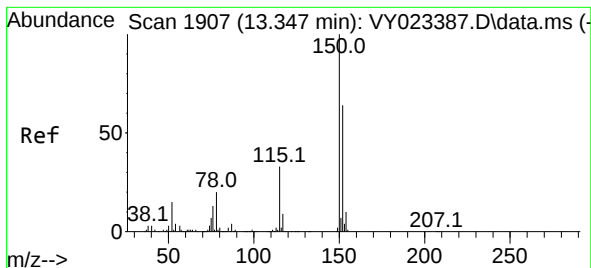
Tgt Ion:106 Resp: 9635
Ion Ratio Lower Upper
106 100
91 176.2 152.6 229.0



#69
o-Xylene
Concen: 1.854 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion:106 Resp: 10877
Ion Ratio Lower Upper
106 100
91 218.1 101.4 304.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023590.D

Acq: 27 Oct 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-10242025

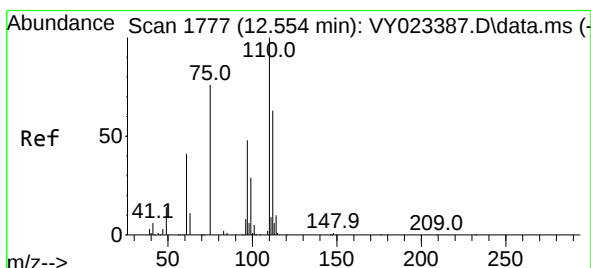
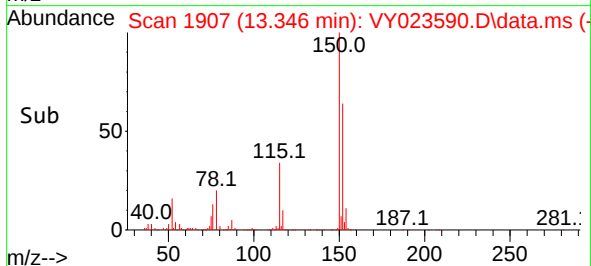
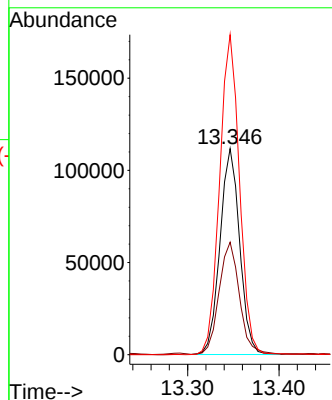
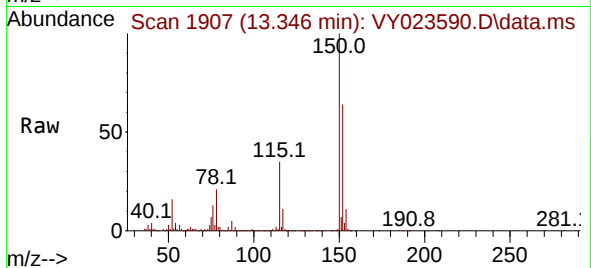
Tgt Ion:152 Resp: 167558

Ion Ratio Lower Upper

152 100

115 56.4 27.1 81.2

150 156.9 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 53.500 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY023590.D

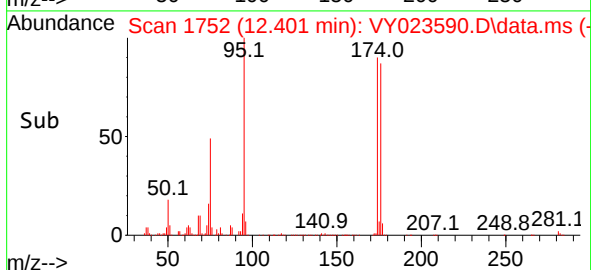
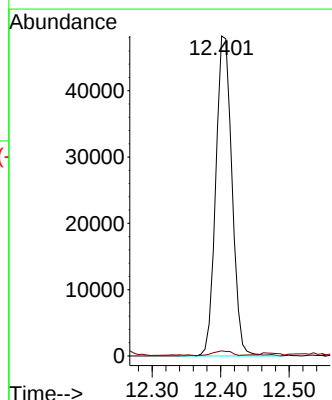
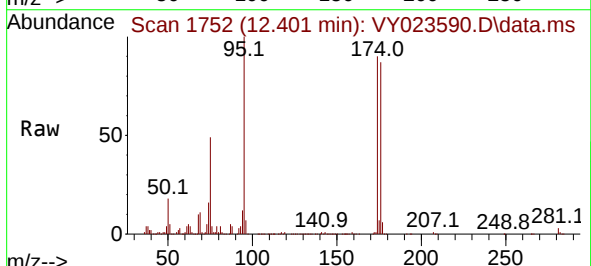
Acq: 27 Oct 2025 11:43

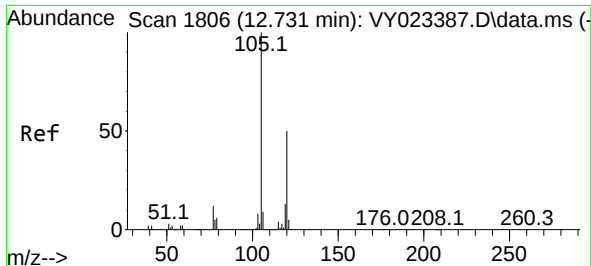
Tgt Ion: 75 Resp: 79089

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#

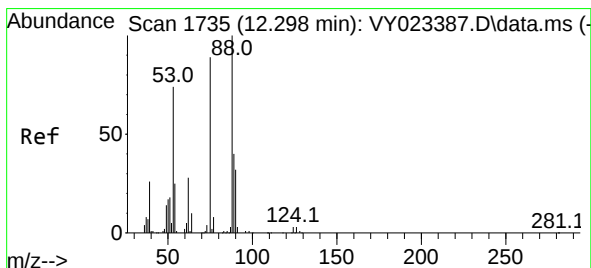
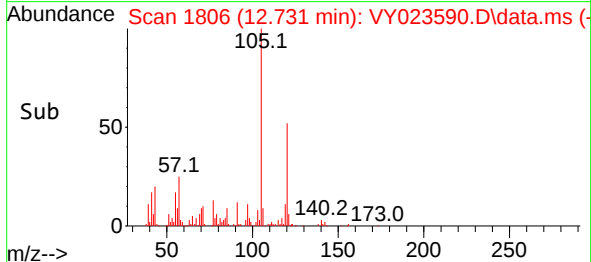
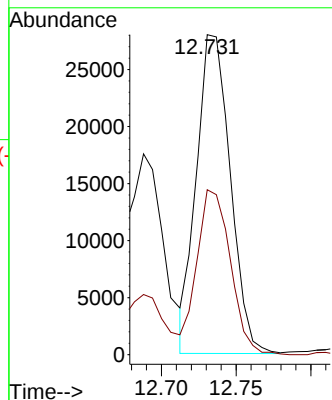
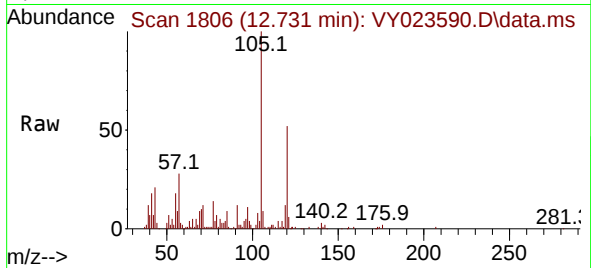




#80
 1,3,5-Trimethylbenzene
 Concen: 4.925 ug/l
 RT: 12.731 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VY023590.D
 Acq: 27 Oct 2025 11:43

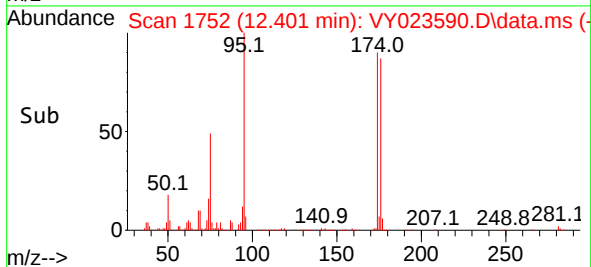
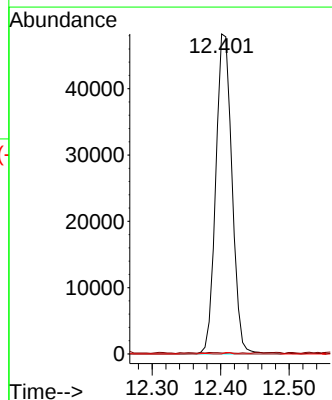
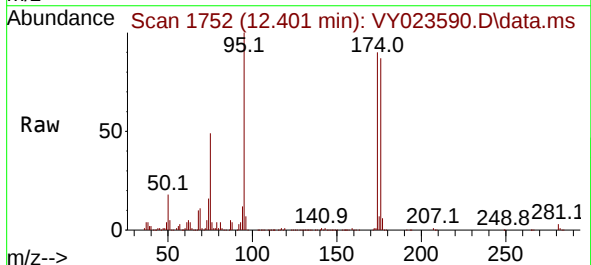
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-10242025

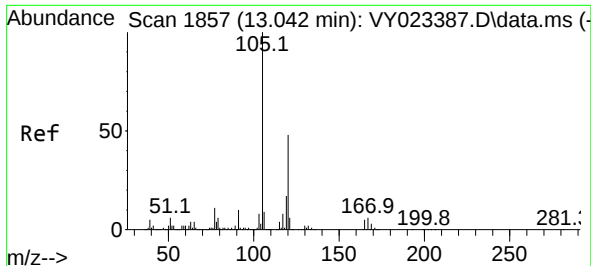
Tgt Ion:105 Resp: 43948
 Ion Ratio Lower Upper
 105 100
 120 51.2 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.191 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023590.D
 Acq: 27 Oct 2025 11:43

Tgt Ion: 75 Resp: 79089
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 102.8#
 89 0.2 39.0 58.4#

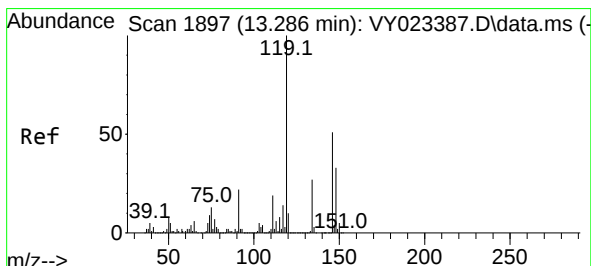
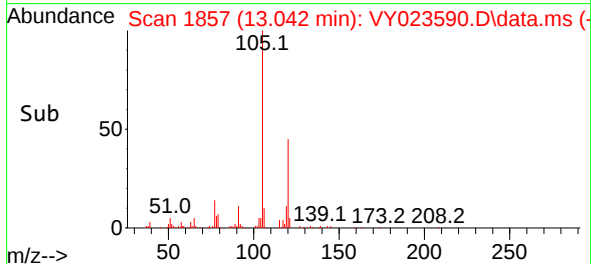
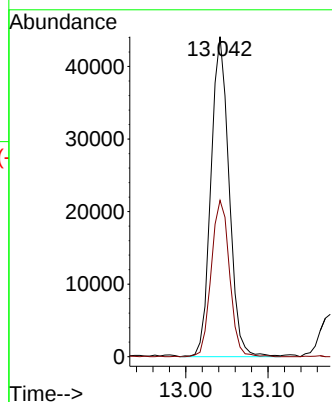
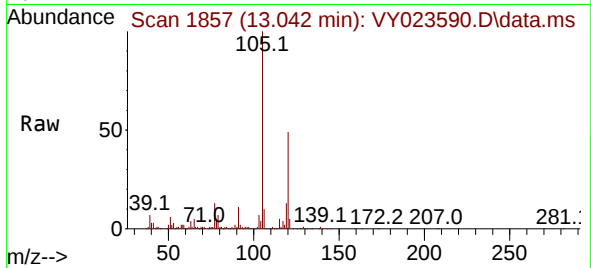




#84
1,2,4-Trimethylbenzene
Concen: 7.594 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

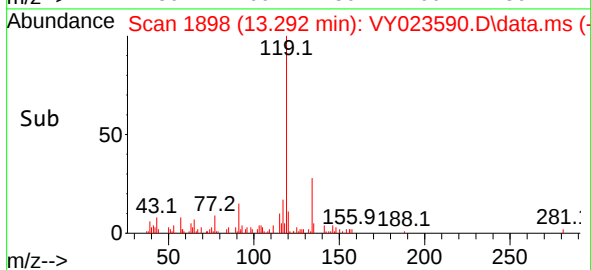
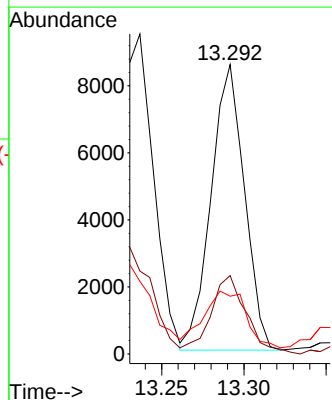
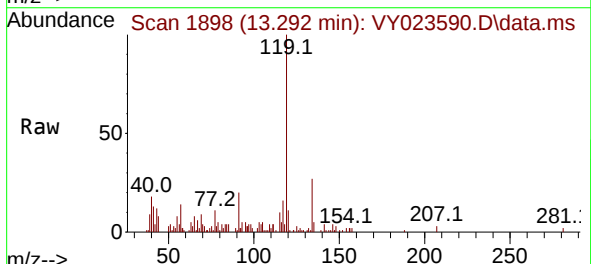
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-10242025

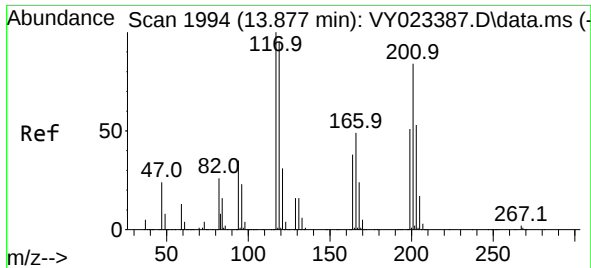
Tgt Ion:105 Resp: 67621
Ion Ratio Lower Upper
105 100
120 49.1 23.8 71.2



#86
p-Isopropyltoluene
Concen: 1.196 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023590.D
Acq: 27 Oct 2025 11:43

Tgt Ion:119 Resp: 12032
Ion Ratio Lower Upper
119 100
134 29.3 13.6 40.7
91 25.1 10.9 32.9





#90
 Hexachloroethane
 Concen: 1.048 ug/l
 RT: 13.889 min Scan# 1996
 Delta R.T. 0.012 min
 Lab File: VY023590.D
 Acq: 27 Oct 2025 11:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-10242025

Tgt Ion:117 Resp: 2269
 Ion Ratio Lower Upper
 117 100
 201 0.0 43.8 131.4#

