

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112425\
 Data File : VY023792.D
 Acq On : 24 Nov 2025 15:59
 Operator : SY/MD
 Sample : Q3710-05
 Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WELD-SHOP-EXCAVATION

Quant Time: Nov 26 02:12:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

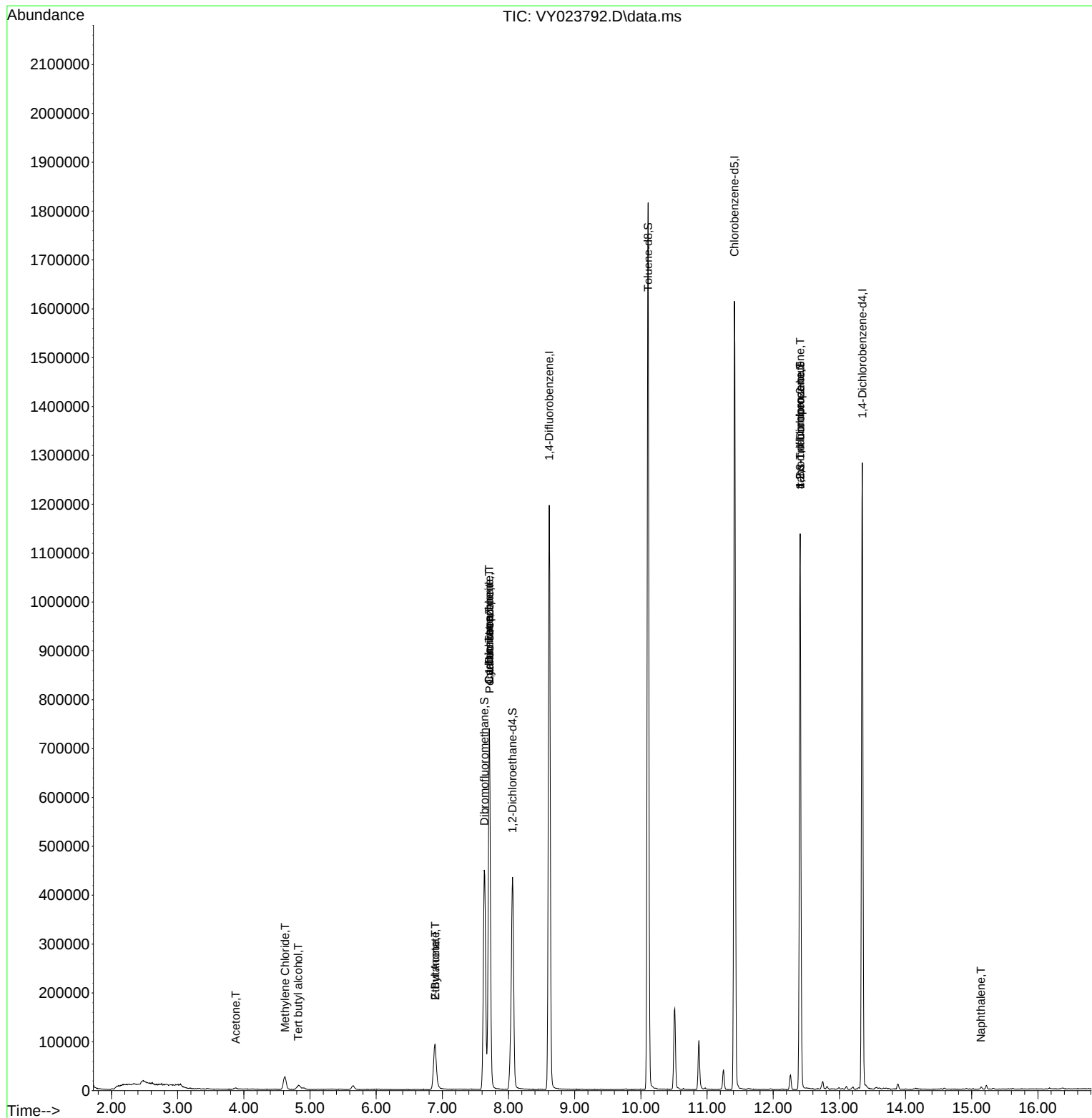
Internal Standards						
1) Pentafluorobenzene	7.713	168	582899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1049456	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	885237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	333513	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	289924	58.309	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.620%	
35) Dibromofluoromethane	7.634	113	332644	50.720	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.440%	
50) Toluene-d8	10.109	98	1213681	49.679	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.360%	
62) 4-Bromofluorobenzene	12.408	95	337425	42.709	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 85.420%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.824	59	8867	27.657	ug/l #	76
16) Acetone	3.879	43	4378	3.542	ug/l #	87
20) Methylene Chloride	4.623	84	20272	3.398	ug/l	92
25) 2-Butanone	6.890	43	5325	3.726	ug/l #	61
31) Cyclohexane	7.707	56	11667	1.424	ug/l #	5
36) 1,1-Dichloropropene	7.707	75	44163	5.039	ug/l #	47
37) Ethyl Acetate	6.890	43	5325	1.570	ug/l #	1
38) Carbon Tetrachloride	7.707	117	55816	5.406	ug/l #	17
76) 1,2,3-Trichloropropane	12.408	75	168789	62.534	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	168789	141.323	ug/l #	14
95) Naphthalene	15.139	128	4178	5.643	ug/l #	96

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

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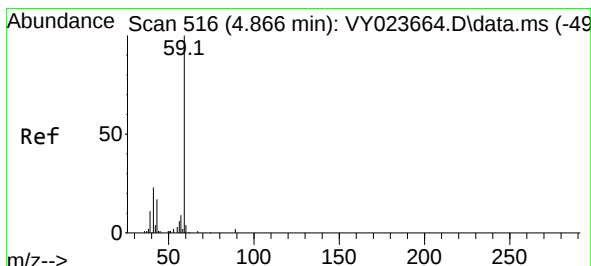
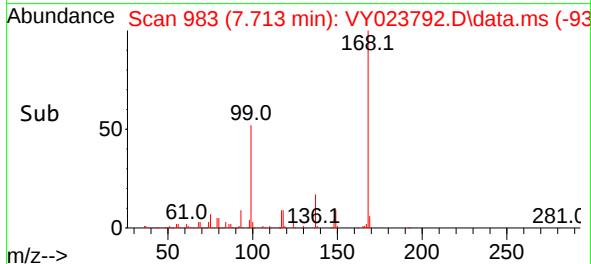
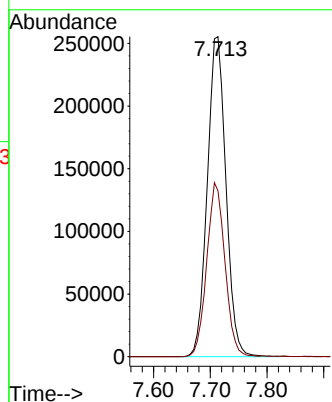
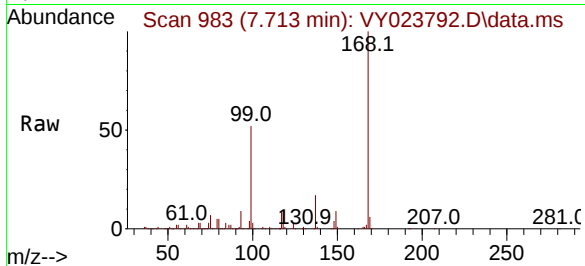




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

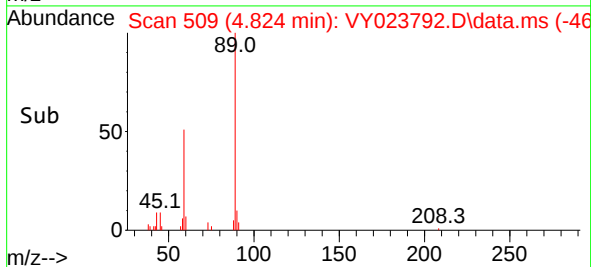
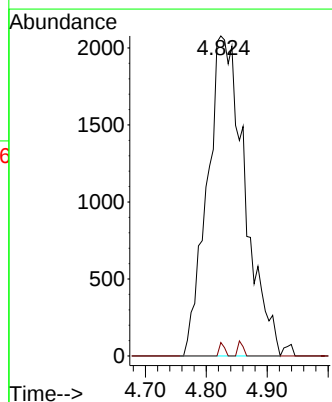
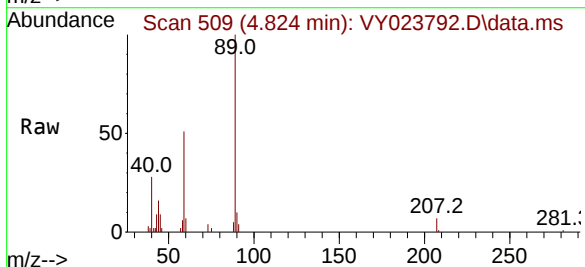
Instrument :
MSVOA_Y
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WELD-SHOP-EXCAVATION

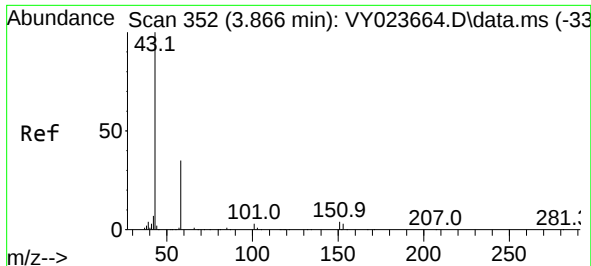
Tgt Ion:168 Resp: 582899
Ion Ratio Lower Upper
168 100
99 51.8 41.0 61.4



#11
Tert butyl alcohol
Concen: 27.657 ug/l
RT: 4.824 min Scan# 509
Delta R.T. -0.043 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

Tgt Ion: 59 Resp: 8867
Ion Ratio Lower Upper
59 100
57 0.6 7.4 11.2#

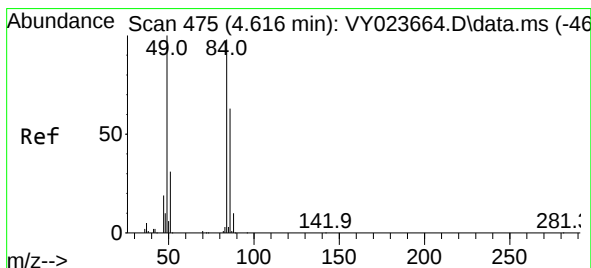
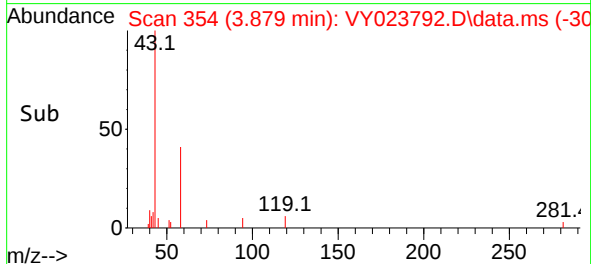
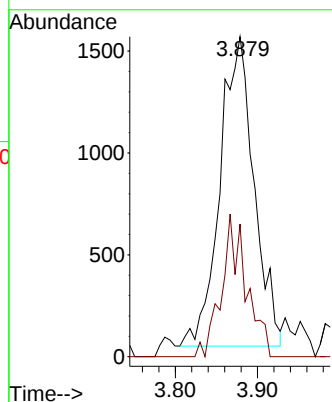
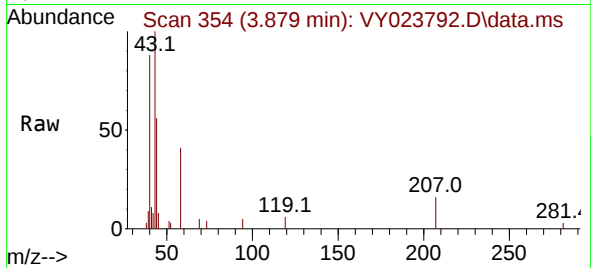




#16
Acetone
Concen: 3.542 ug/l
RT: 3.879 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

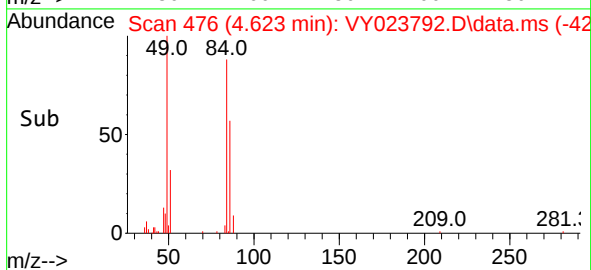
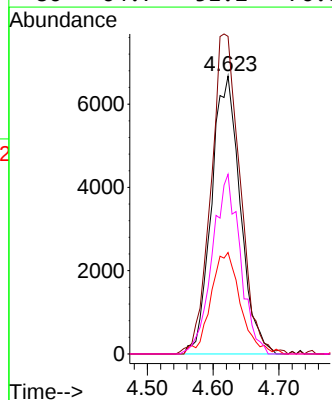
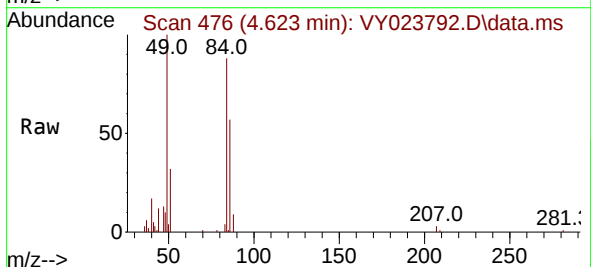
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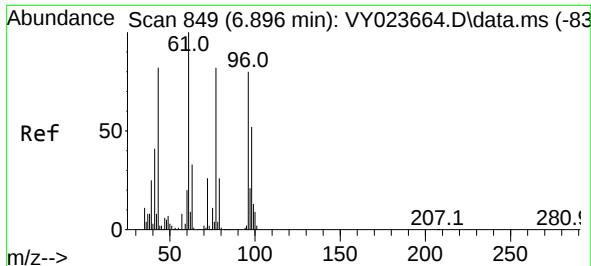
Tgt Ion: 43 Resp: 4378
Ion Ratio Lower Upper
43 100
58 42.9 28.2 42.4#



#20
Methylene Chloride
Concen: 3.398 ug/l
RT: 4.623 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

Tgt Ion: 84 Resp: 20272
Ion Ratio Lower Upper
84 100
49 113.5 81.5 122.3
51 36.5 25.5 38.3
86 64.7 51.2 76.8

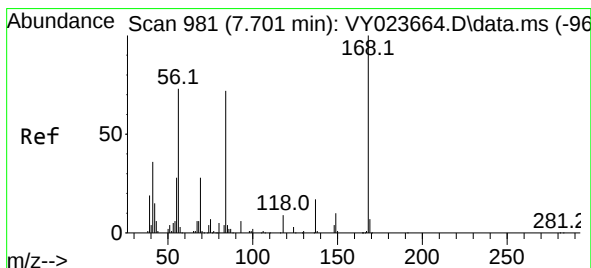
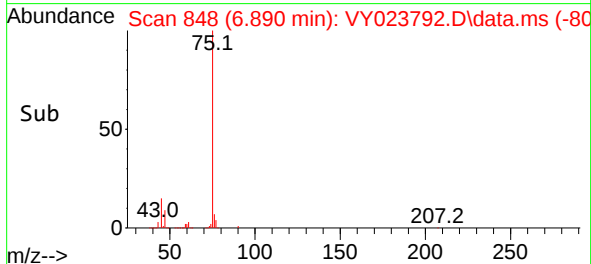
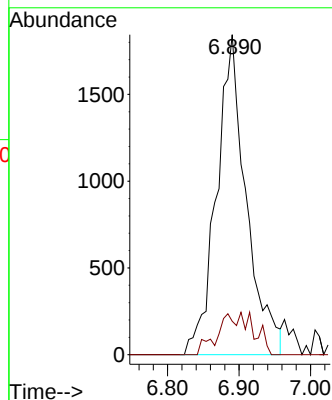
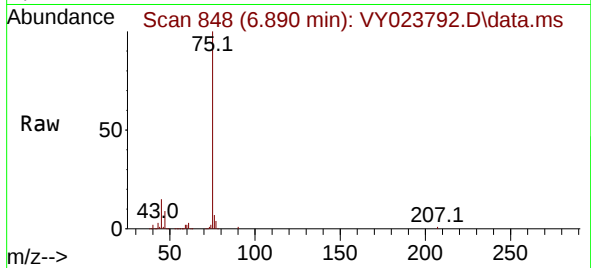




#25
2-Butanone
Concen: 3.726 ug/l
RT: 6.890 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

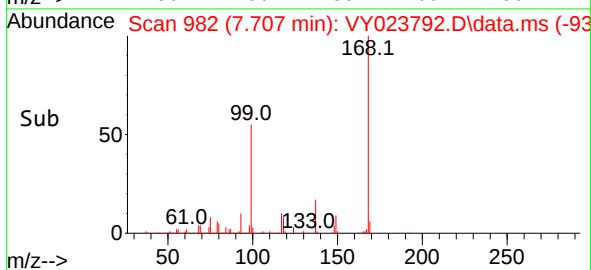
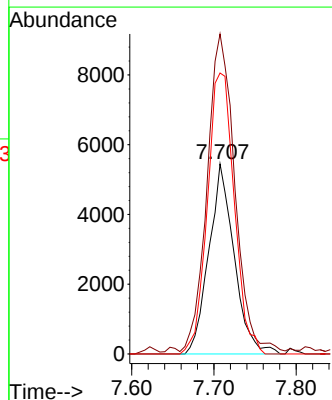
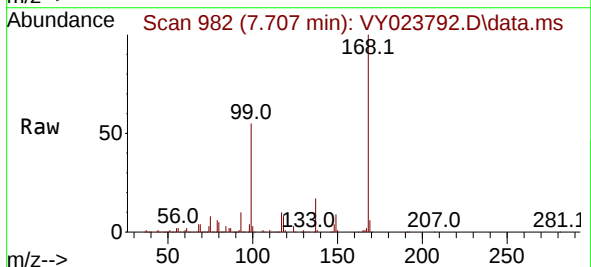
Instrument :
MSVOA_Y
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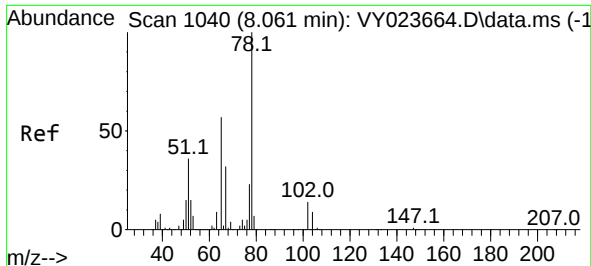
Tgt Ion: 43 Resp: 5325
Ion Ratio Lower Upper
43 100
72 10.5 25.7 38.5#



#31
Cyclohexane
Concen: 1.424 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

Tgt Ion: 56 Resp: 11667
Ion Ratio Lower Upper
56 100
69 167.1 30.5 45.7#
84 147.8 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 58.309 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. 0.000 min

Lab File: VY023792.D

Acq: 24 Nov 2025 15:59

Instrument :

MSVOA_Y

ClientSampleId :

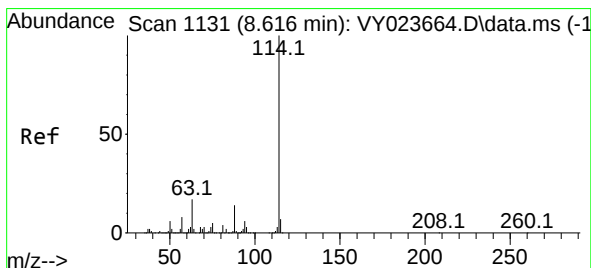
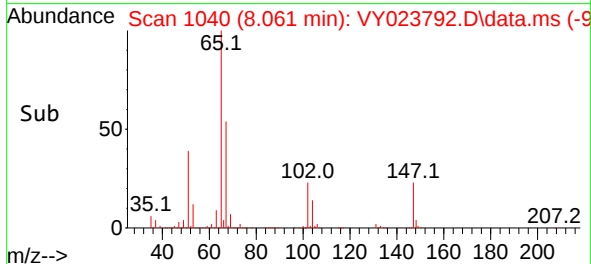
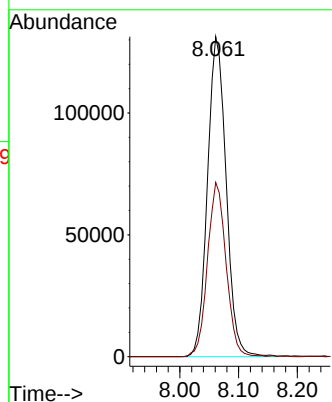
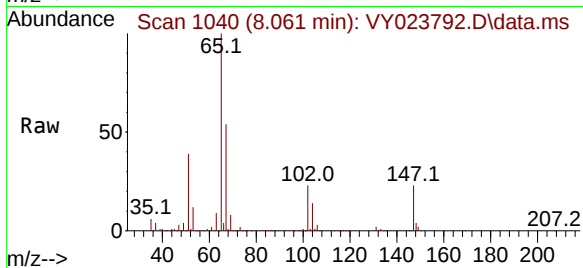
WELD-SHOP-EXCAVATION

Tgt Ion: 65 Resp: 289924

Ion Ratio Lower Upper

65 100

67 54.2 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023792.D

Acq: 24 Nov 2025 15:59

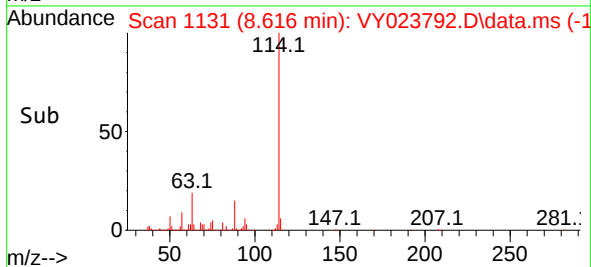
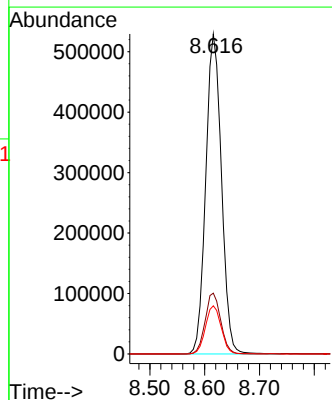
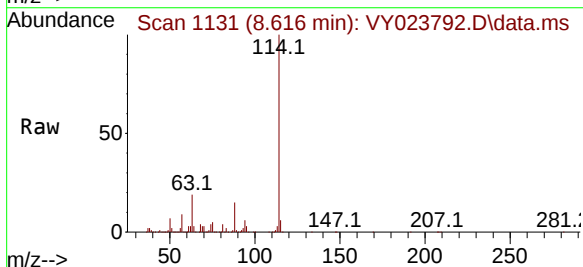
Tgt Ion:114 Resp: 1049456

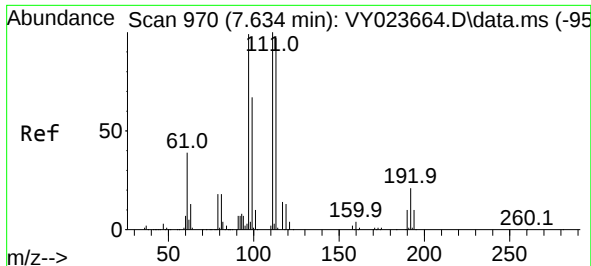
Ion Ratio Lower Upper

114 100

63 19.0 0.0 33.8

88 15.1 0.0 29.0

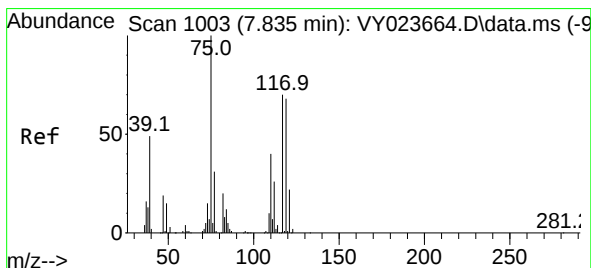
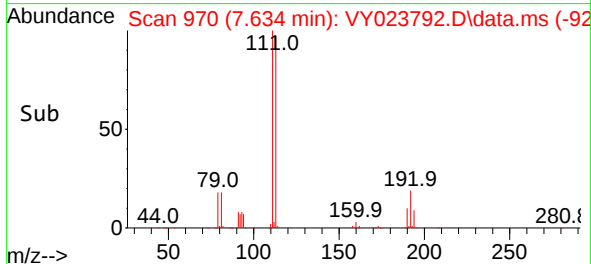
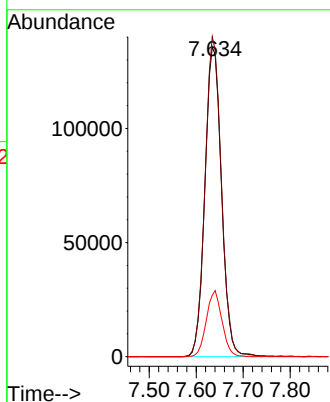
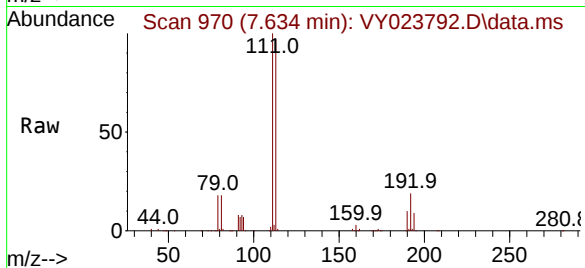




#35
Dibromofluoromethane
Concen: 50.720 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

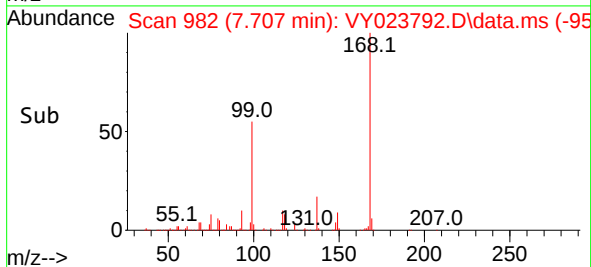
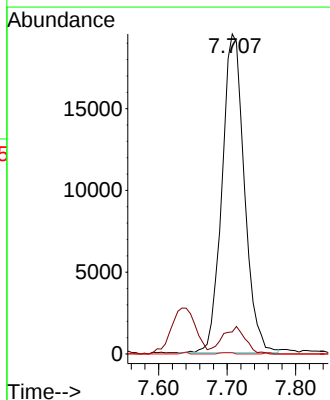
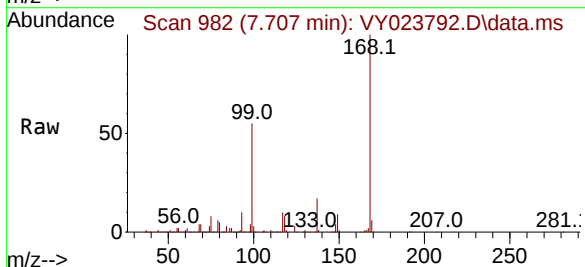
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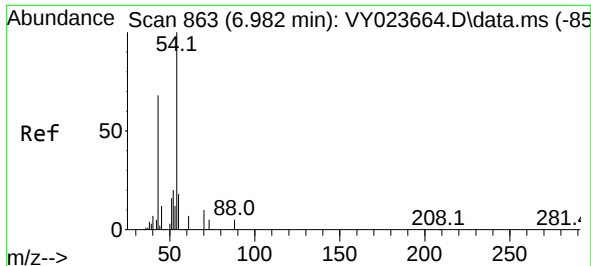
Tgt Ion:113 Resp: 332644
Ion Ratio Lower Upper
113 100
111 102.1 82.2 123.4
192 20.1 17.3 25.9



#36
1,1-Dichloropropene
Concen: 5.039 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

Tgt Ion: 75 Resp: 44163
Ion Ratio Lower Upper
75 100
110 8.6 19.7 59.0#
77 0.2 25.2 37.8#





#37

Ethyl Acetate

Concen: 1.570 ug/l

RT: 6.890 min Scan# 84

Delta R.T. -0.091 min

Lab File: VY023792.D

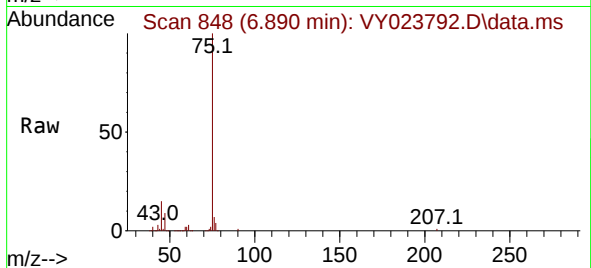
Acq: 24 Nov 2025 15:59

Instrument :

MSVOA_Y

ClientSampleId :

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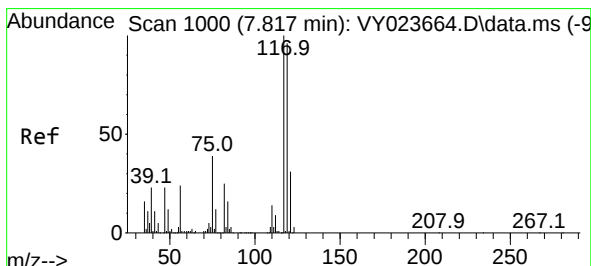
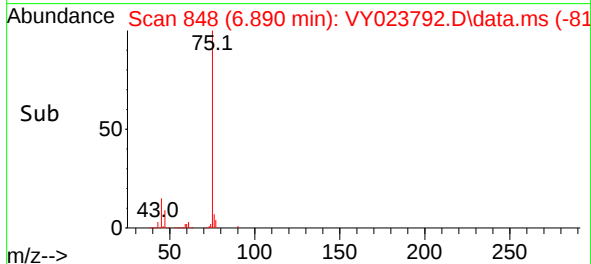
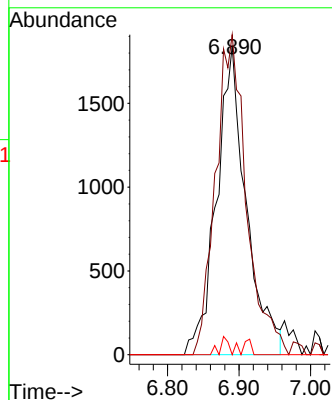
Tgt Ion: 43 Resp: 5325

Ion Ratio Lower Upper

43 100

61 107.4 12.4 18.6#

70 1.7 9.8 14.8#



#38

Carbon Tetrachloride

Concen: 5.406 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023792.D

Acq: 24 Nov 2025 15:59

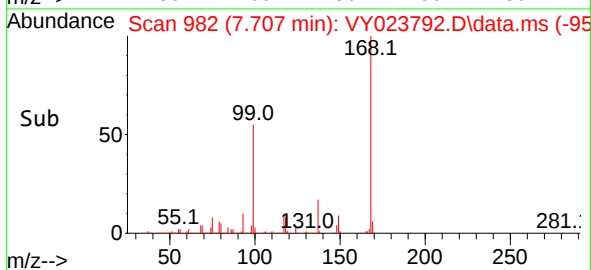
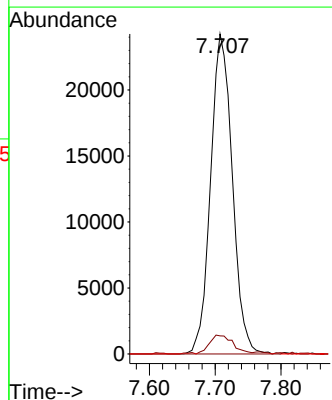
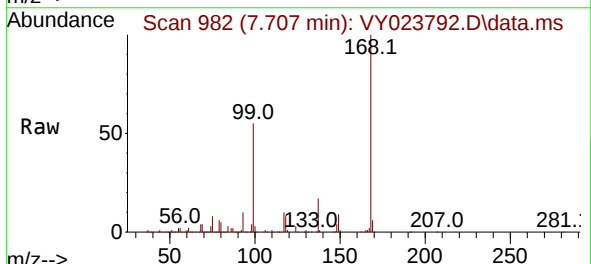
Tgt Ion: 117 Resp: 55816

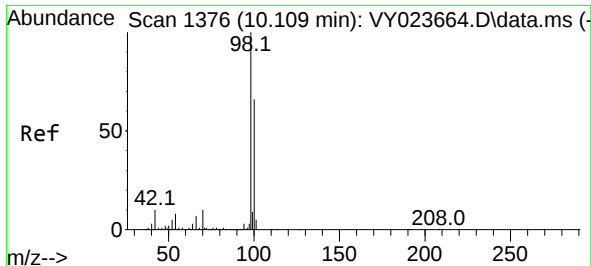
Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

121 0.0 24.8 37.2#

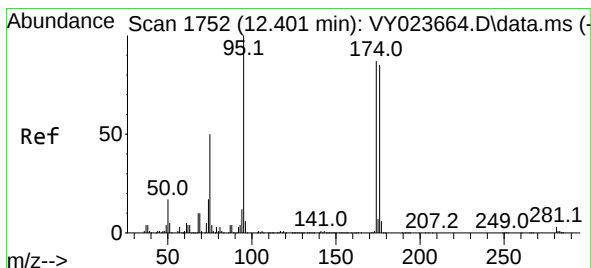
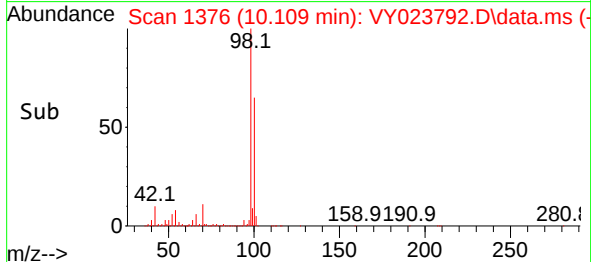
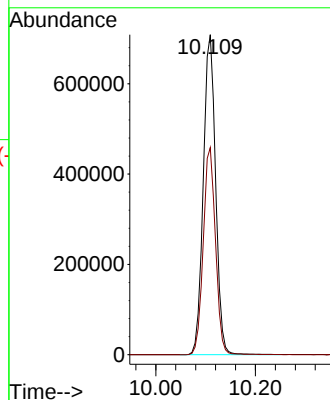
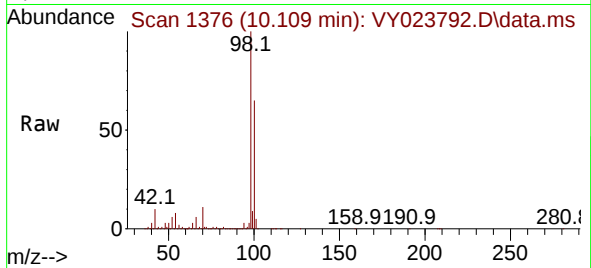




#50
Toluene-d8
Concen: 49.679 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

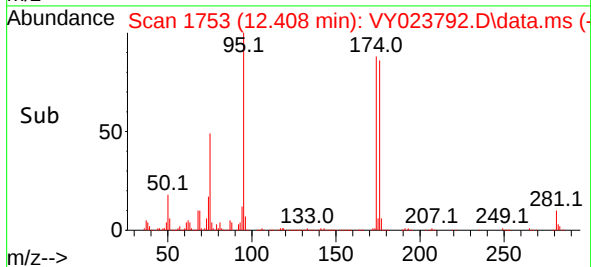
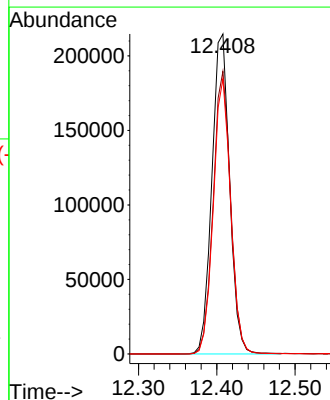
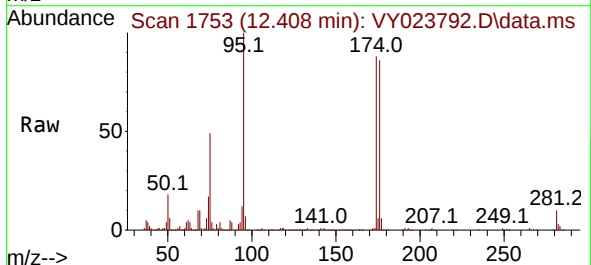
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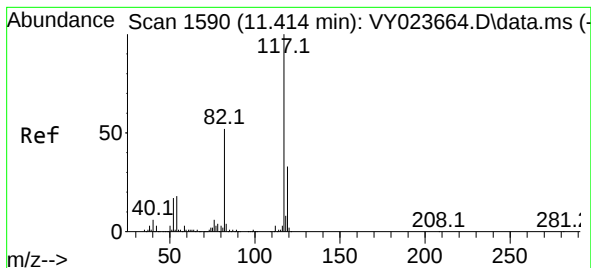
Tgt Ion: 98 Resp: 1213681
Ion Ratio Lower Upper
98 100
100 64.4 52.7 79.1



#62
4-Bromofluorobenzene
Concen: 42.709 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

Tgt Ion: 95 Resp: 337425
Ion Ratio Lower Upper
95 100
174 87.2 0.0 184.8
176 83.9 0.0 181.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023792.D

Acq: 24 Nov 2025 15:59

Instrument :

MSVOA_Y

ClientSampleId :

WELD-SHOP-EXCAVATION

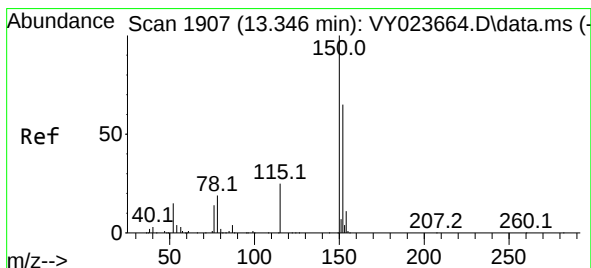
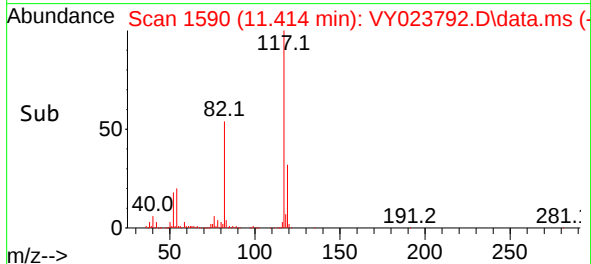
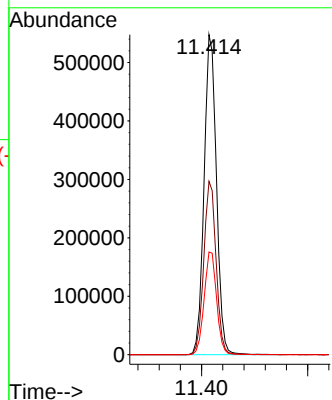
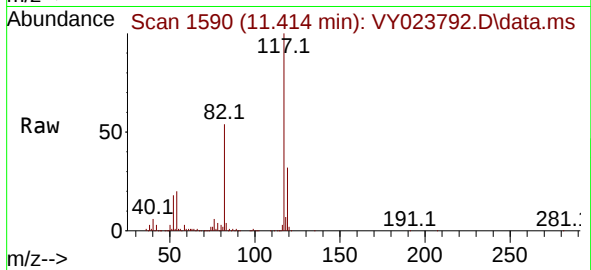
Tgt Ion:117 Resp: 885237

Ion Ratio Lower Upper

117 100

82 54.1 41.2 61.8

119 32.1 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023792.D

Acq: 24 Nov 2025 15:59

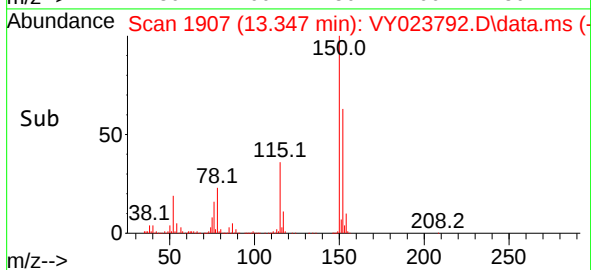
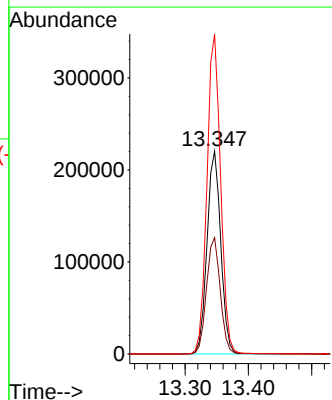
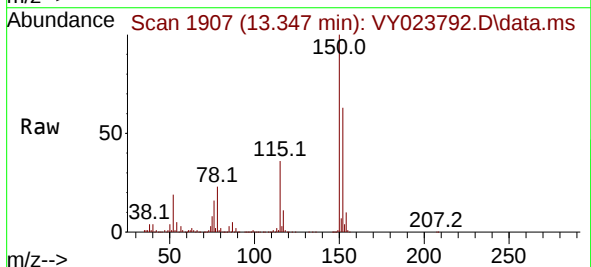
Tgt Ion:152 Resp: 333513

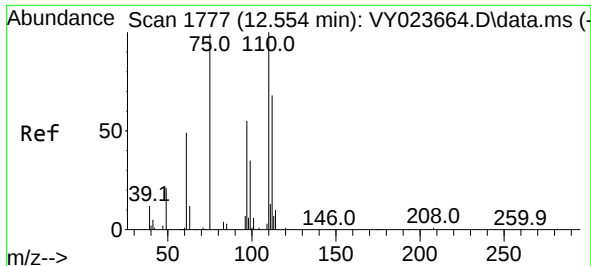
Ion Ratio Lower Upper

152 100

115 57.7 27.5 82.5

150 156.7 0.0 349.0

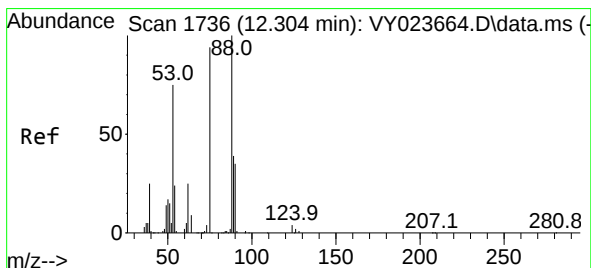
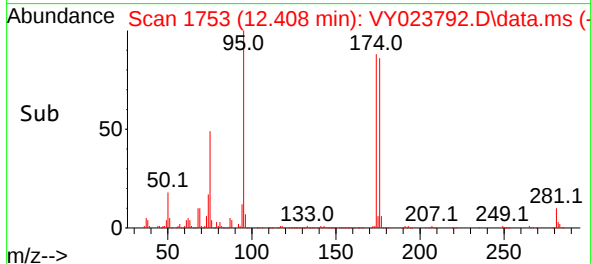
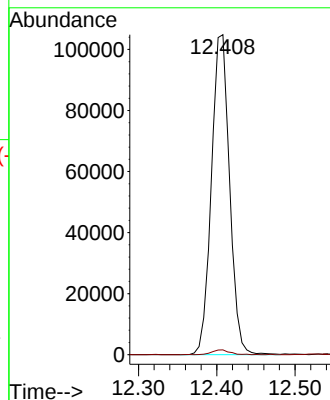
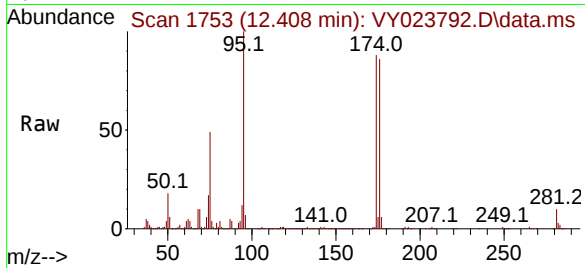




#76
1,2,3-Trichloropropane
Concen: 62.534 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

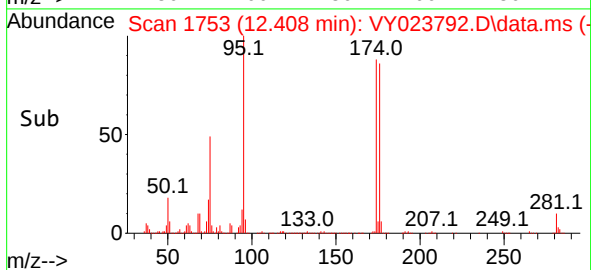
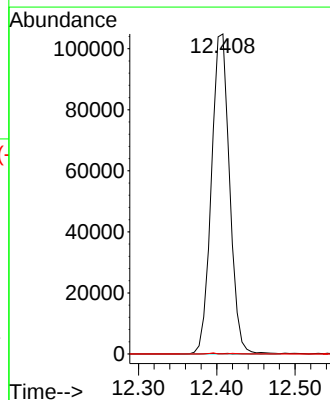
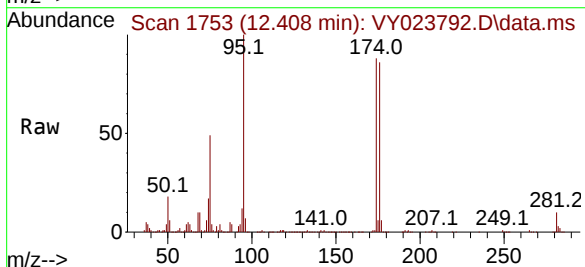
Instrument :
MSVOA_Y
ClientSampleId :
WELD-SHOP-EXCAVATION

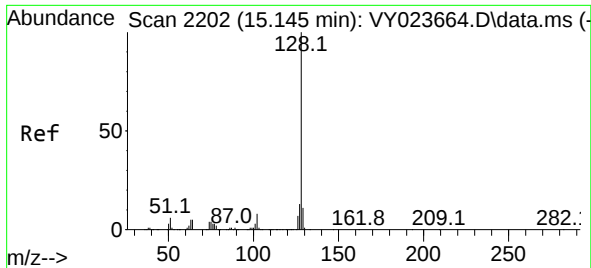
Tgt Ion: 75 Resp: 168789
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 141.323 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY023792.D
Acq: 24 Nov 2025 15:59

Tgt Ion: 75 Resp: 168789
Ion Ratio Lower Upper
75 100
53 0.2 69.6 104.4#
89 0.1 38.2 57.4#





#95

Naphthalene

Concen: 5.643 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY023792.D

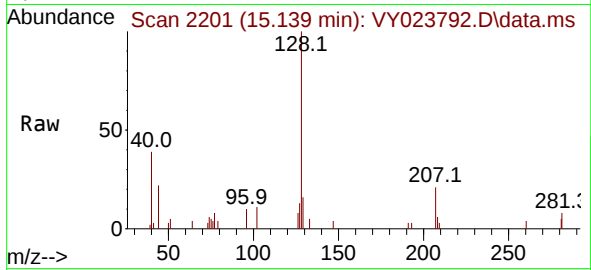
Acq: 24 Nov 2025 15:59

Instrument :

MSVOA_Y

ClientSampleId :

WELD-SHOP-EXCAVATION



Tgt Ion:128 Resp: 4178

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

129 13.4 8.8 13.2#

