

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111025\
 Data File : VY023720.D
 Acq On : 10 Nov 2025 17:22
 Operator : SY/MD
 Sample : Q3593-11
 Misc : 6.43g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 D-LAW-25-0156-0166-COMP

Quant Time: Nov 11 02:10:08 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)

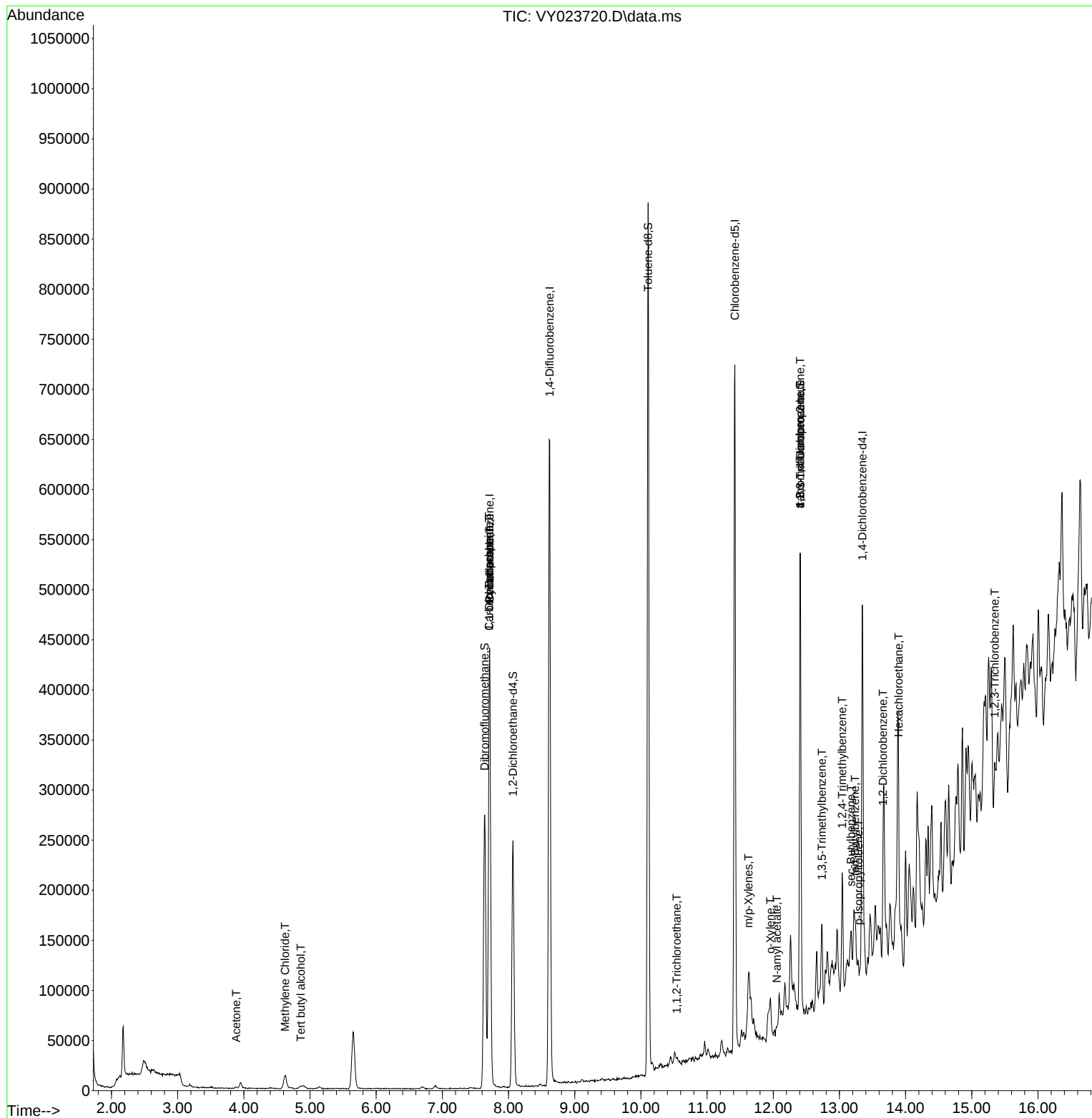
Internal Standards						
1) Pentafluorobenzene	7.713	168	362700	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	591088	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	397156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	101655	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	194384	64.091	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	128.180%
35) Dibromofluoromethane	7.640	113	200737	55.270	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	110.540%
50) Toluene-d8	10.109	98	573065	42.368	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.740%
62) 4-Bromofluorobenzene	12.408	95	134472	30.113	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	60.220%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	5465	24.221	ug/l #	85
16) Acetone	3.885	43	1757	2.433	ug/l #	80
20) Methylene Chloride	4.622	84	10330	2.646	ug/l #	97
31) Cyclohexane	7.713	56	6516	1.291	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	24373	5.069	ug/l #	48
38) Carbon Tetrachloride	7.707	117	34144	5.856	ug/l #	16
55) 1,1,2-Trichloroethane	10.542	97	3284	1.148	ug/l #	20
68) m/p-Xylenes	11.627	106	18544	3.307	ug/l	96
69) o-Xylene	11.957	106	7189	1.367	ug/l	85
74) N-amyl acetate	12.054	43	2266	1.883	ug/l #	44
76) 1,2,3-Trichloropropane	12.408	75	67085	74.799	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	18232	3.368	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.408	75	67085	183.422	ug/l #	15
83) tert-Butylbenzene	13.237	119	7158	1.432	ug/l	82
84) 1,2,4-Trimethylbenzene	13.042	105	58503	10.829	ug/l	99
85) sec-Butylbenzene	13.176	105	13847	1.931	ug/l	95
86) p-Isopropyltoluene	13.292	119	6539	1.071	ug/l #	76
90) Hexachloroethane	13.895	117	1940	1.478	ug/l #	27
91) 1,2-Dichlorobenzene	13.657	146	4184	1.376	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.346	180	4588	2.794	ug/l #	12

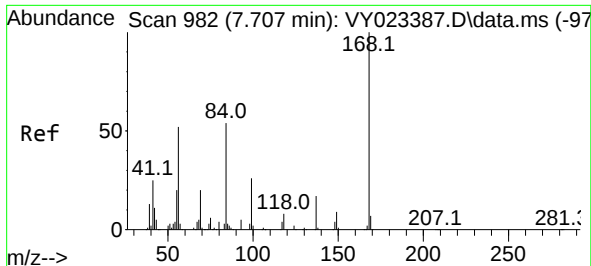
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

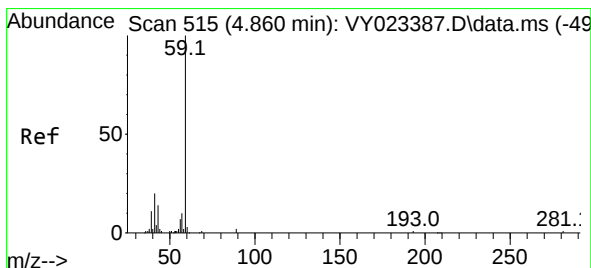
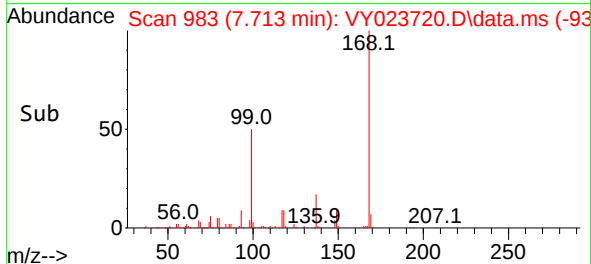
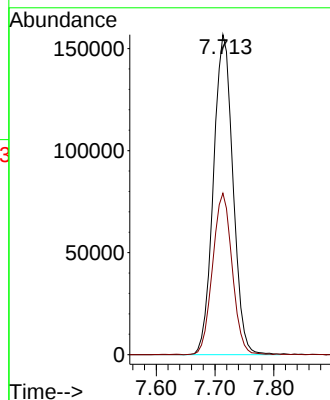
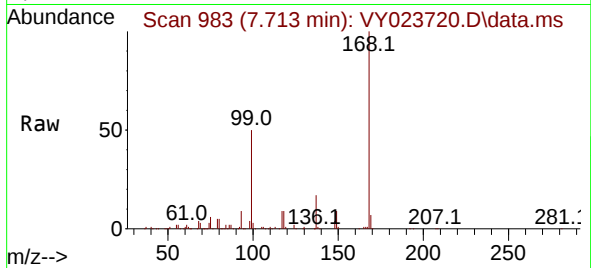




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

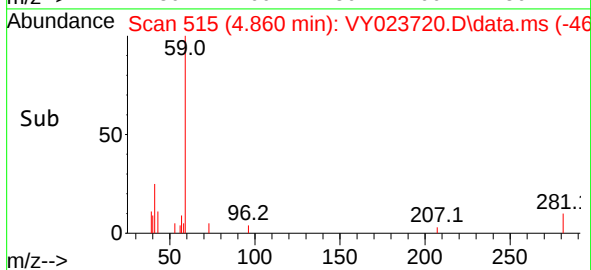
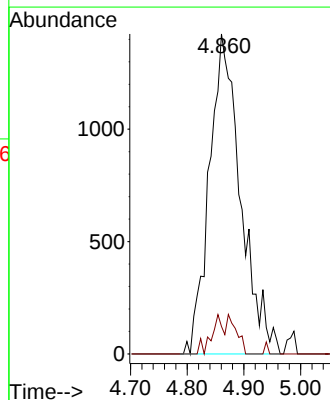
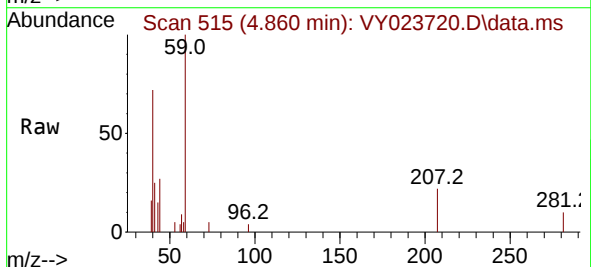
Instrument :
MSVOA_Y
ClientSampleId :
D-LAW-25-0156-0166-COMP

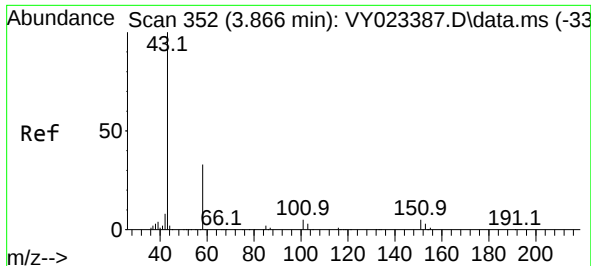
Tgt Ion:168 Resp: 362700
Ion Ratio Lower Upper
168 100
99 50.4 39.7 59.5



#11
Tert butyl alcohol
Concen: 24.221 ug/l
RT: 4.860 min Scan# 515
Delta R.T. 0.000 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion: 59 Resp: 5465
Ion Ratio Lower Upper
59 100
57 4.6 8.3 12.5#

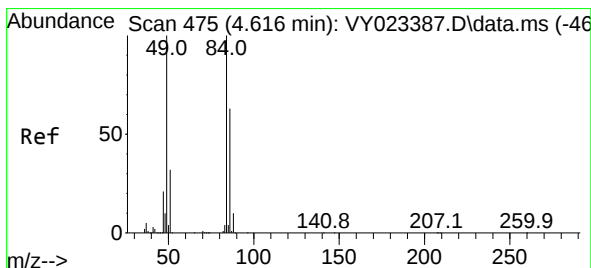
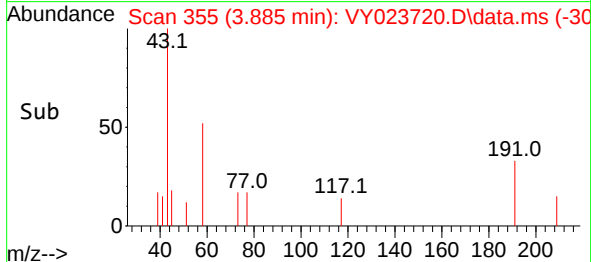
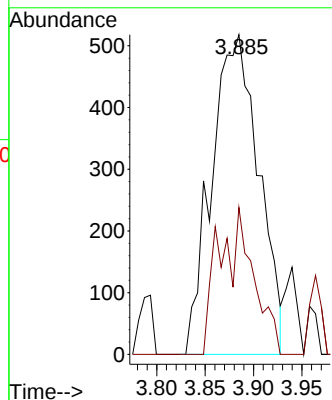
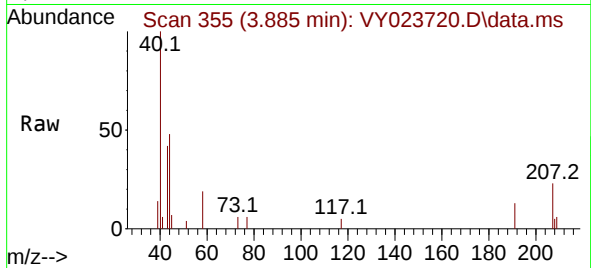




#16
Acetone
Concen: 2.433 ug/l
RT: 3.885 min Scan# 31
Delta R.T. 0.018 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

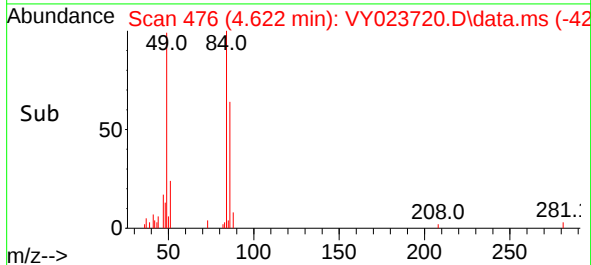
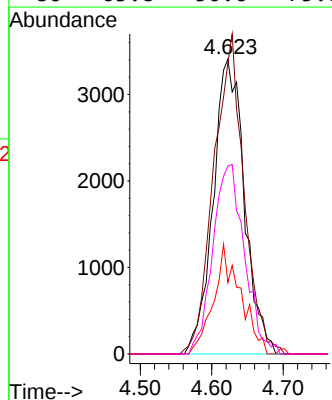
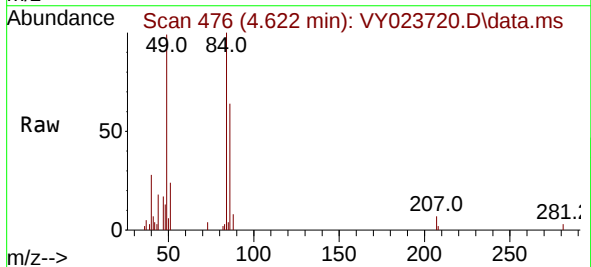
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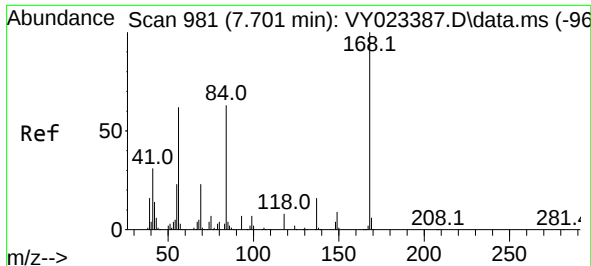
Tgt Ion: 43 Resp: 1757
Ion Ratio Lower Upper
43 100
58 45.9 27.7 41.5#



#20
Methylene Chloride
Concen: 2.646 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion: 84 Resp: 10330
Ion Ratio Lower Upper
84 100
49 98.8 80.2 120.4
51 24.3 25.9 38.9#
86 63.8 50.6 75.8

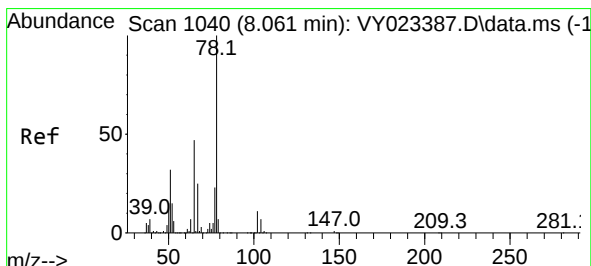
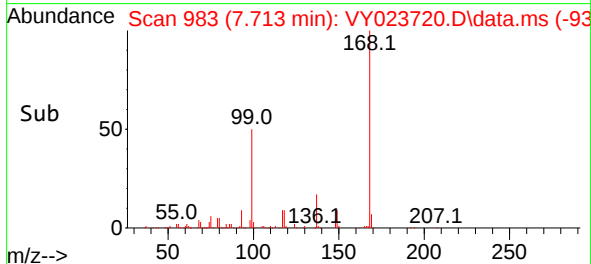
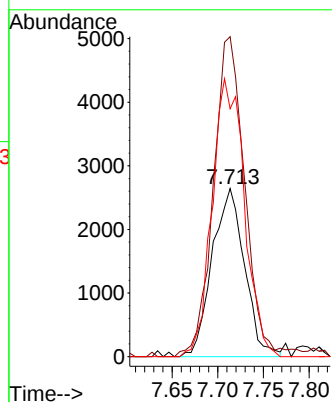
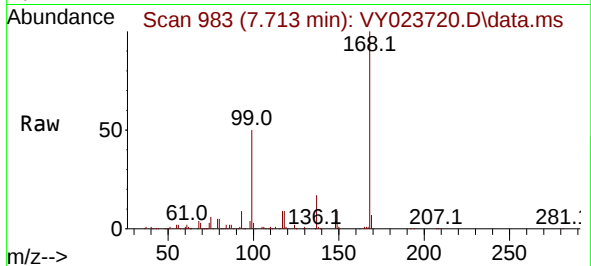




#31
Cyclohexane
Concen: 1.291 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

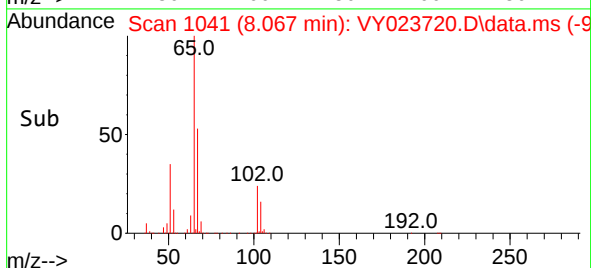
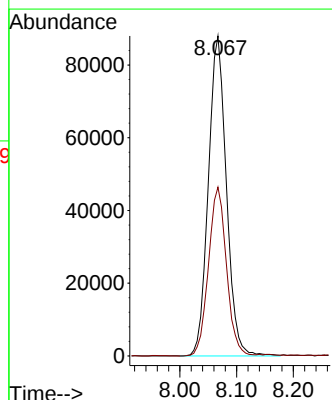
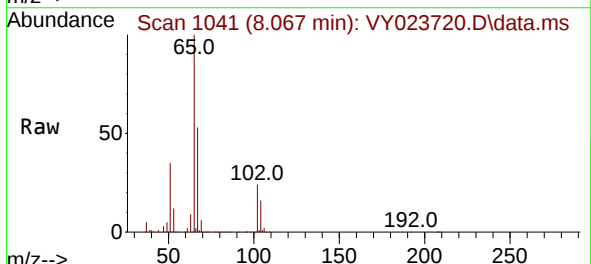
Instrument :
MSVOA_Y
ClientSampleId :
D-LAW-25-0156-0166-COMP

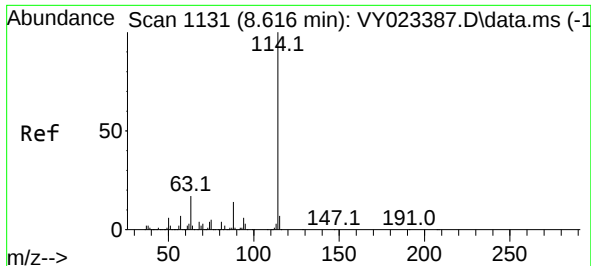
Tgt Ion: 56 Resp: 6516
Ion Ratio Lower Upper
56 100
69 187.2 30.0 45.0#
84 147.4 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 64.091 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion: 65 Resp: 194384
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.8

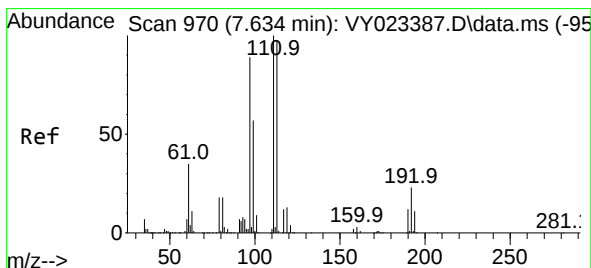
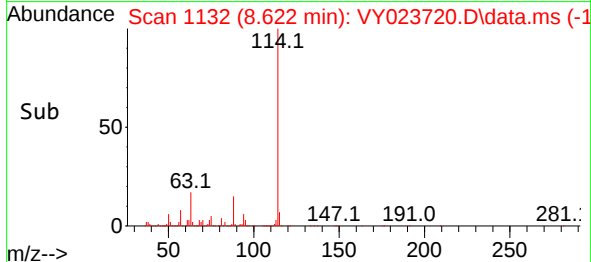
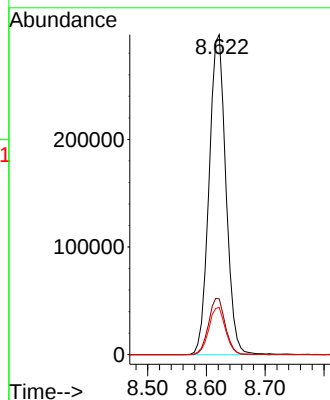
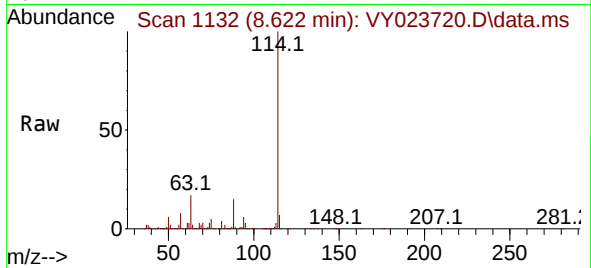




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

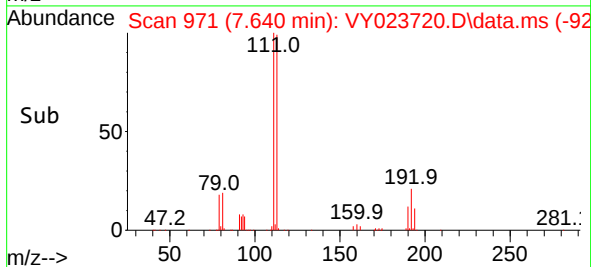
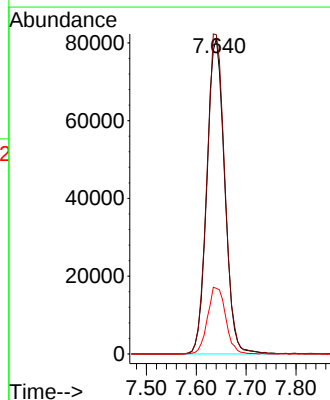
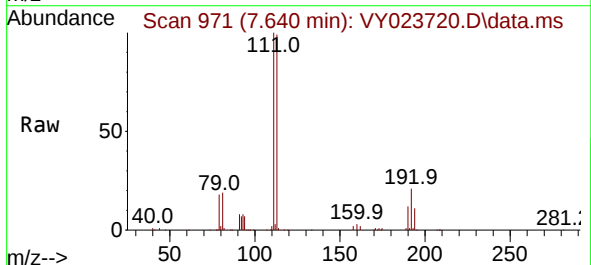
Instrument :
MSVOA_Y
ClientSampleId :
D-LAW-25-0156-0166-COMP

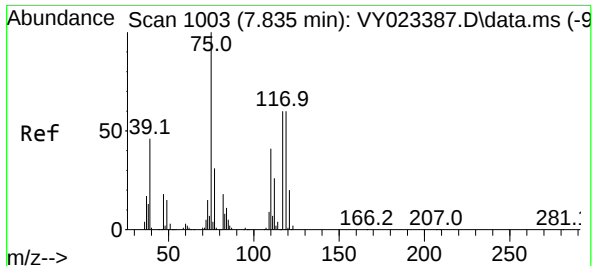
Tgt Ion:114 Resp: 591088
Ion Ratio Lower Upper
114 100
63 17.4 0.0 34.2
88 14.7 0.0 28.4



#35
Dibromofluoromethane
Concen: 55.270 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion:113 Resp: 200737
Ion Ratio Lower Upper
113 100
111 102.5 81.8 122.6
192 21.6 18.0 27.0





#36

1,1-Dichloropropene

Concen: 5.069 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023720.D

Acq: 10 Nov 2025 17:22

Instrument :

MSVOA_Y

ClientSampleId :

D-LAW-25-0156-0166-COMP

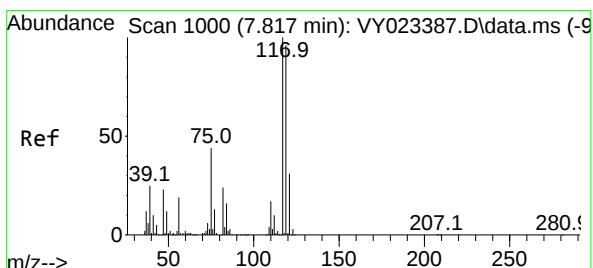
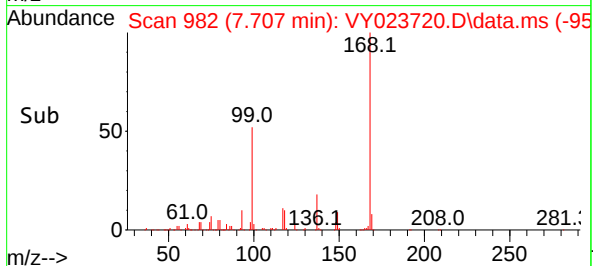
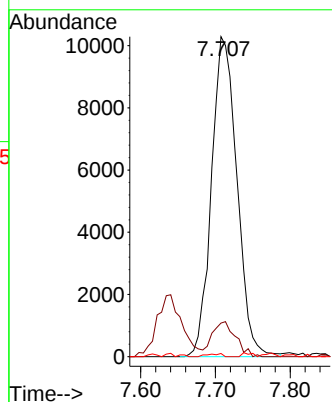
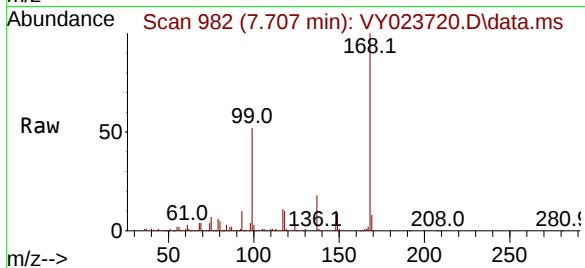
Tgt Ion: 75 Resp: 24373

Ion Ratio Lower Upper

75 100

110 10.1 19.9 59.7#

77 0.5 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.856 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023720.D

Acq: 10 Nov 2025 17:22

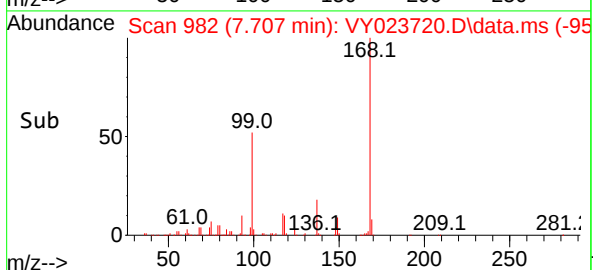
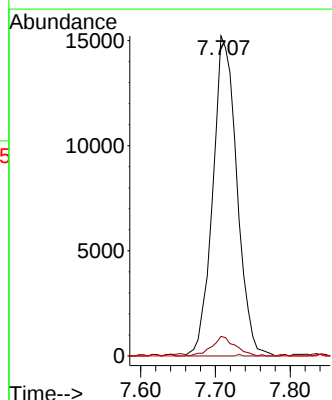
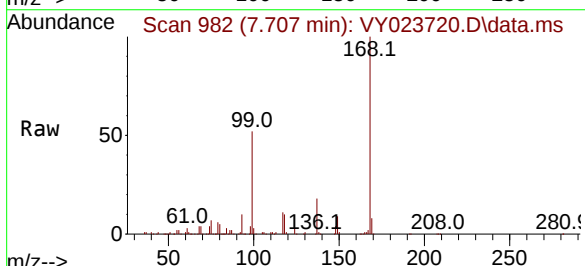
Tgt Ion: 117 Resp: 34144

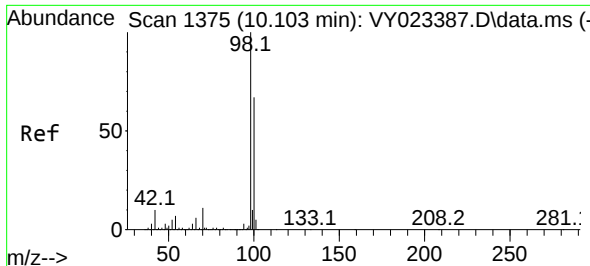
Ion Ratio Lower Upper

117 100

119 5.7 76.8 115.2#

121 0.0 24.5 36.7#

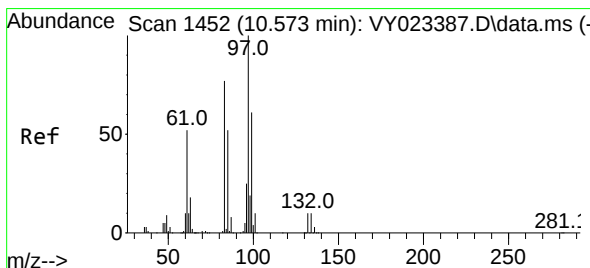
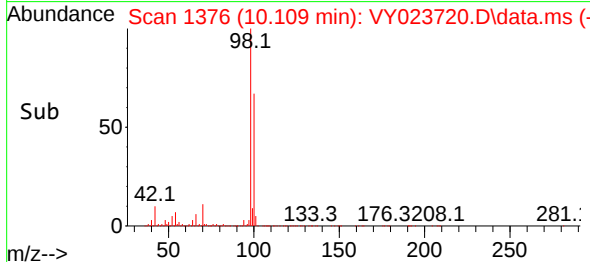
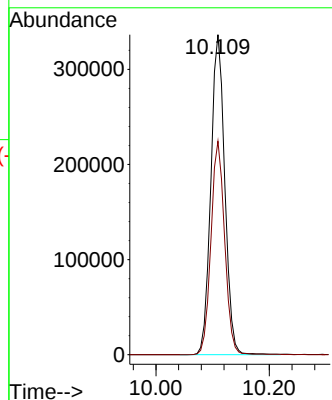
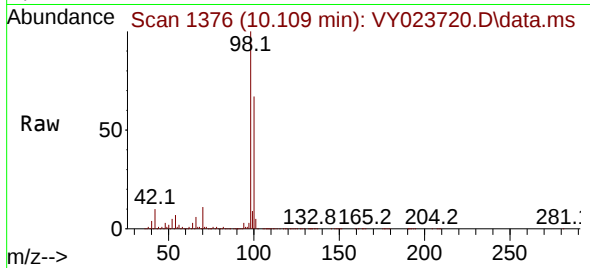




#50
Toluene-d8
Concen: 42.368 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

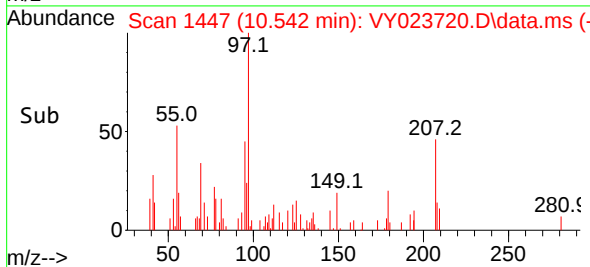
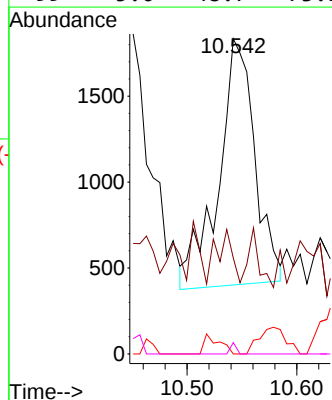
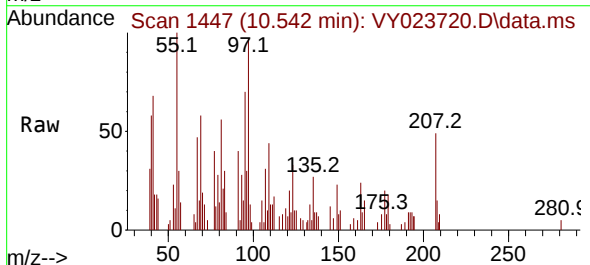
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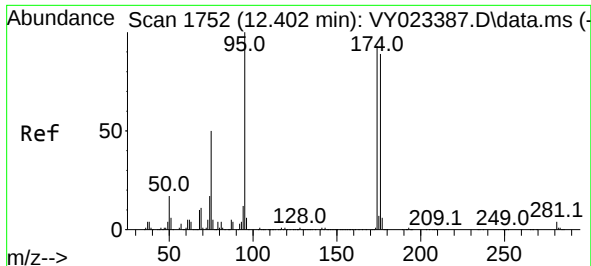
Tgt Ion: 98 Resp: 573065
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 1.148 ug/l
RT: 10.542 min Scan# 1447
Delta R.T. -0.030 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion: 97 Resp: 3284
Ion Ratio Lower Upper
97 100
83 0.0 61.8 92.6#
85 0.0 41.3 61.9#
99 5.0 48.7 73.1#

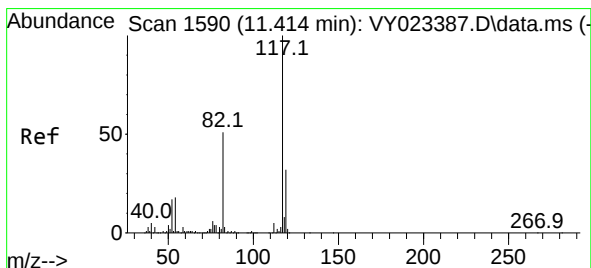
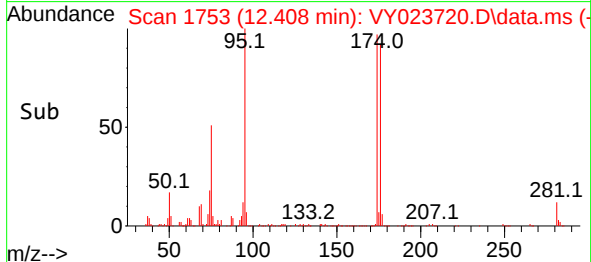
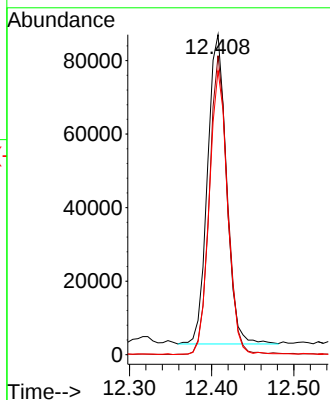
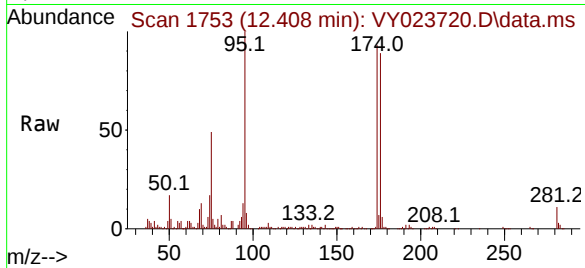




#62
4-Bromofluorobenzene
Concen: 30.113 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

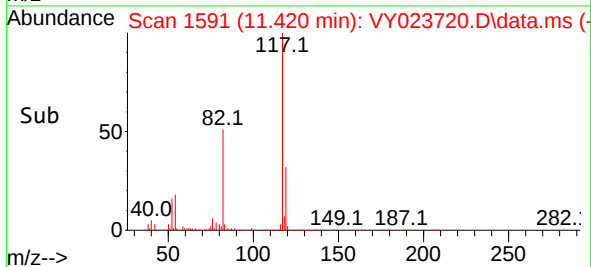
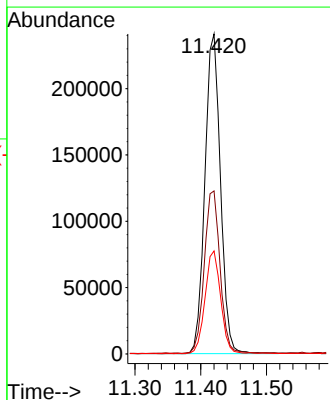
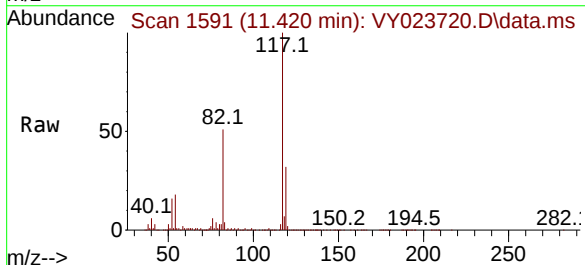
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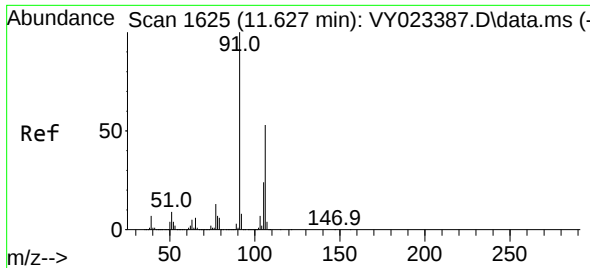
Tgt Ion: 95 Resp: 134472
Ion Ratio Lower Upper
95 100
174 92.5 0.0 192.8
176 88.9 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion: 117 Resp: 397156
Ion Ratio Lower Upper
117 100
82 50.7 41.0 61.4
119 32.1 25.6 38.4

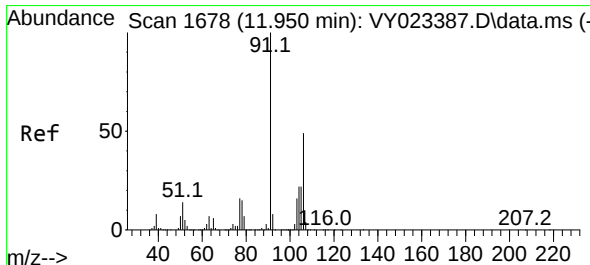
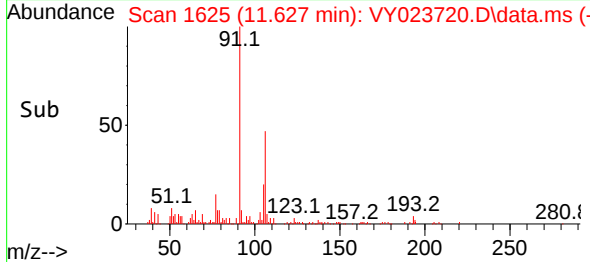
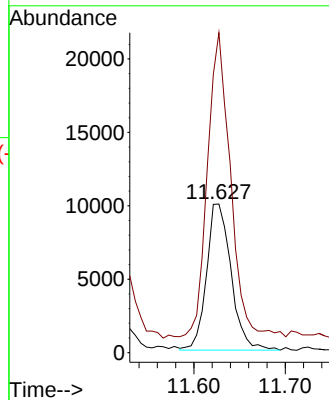
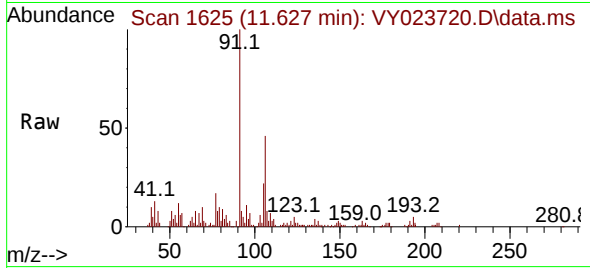




#68
m/p-Xylenes
Concen: 3.307 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

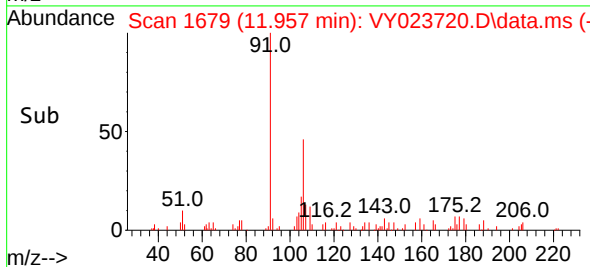
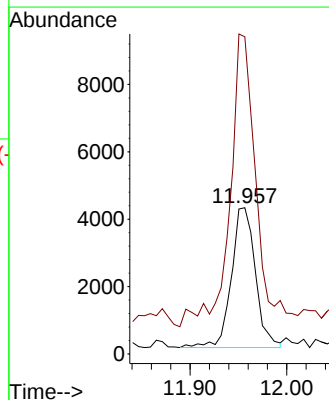
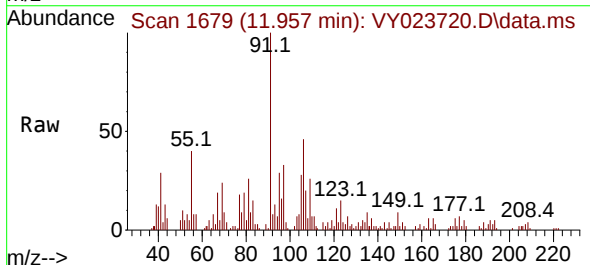
Instrument :
MSVOA_Y
ClientSampleId :
D-LAW-25-0156-0166-COMP

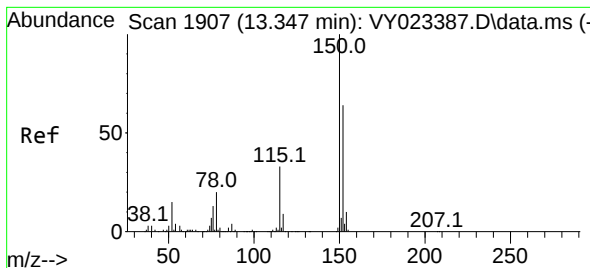
Tgt Ion:106 Resp: 18544
Ion Ratio Lower Upper
106 100
91 196.4 152.6 229.0



#69
o-Xylene
Concen: 1.367 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion:106 Resp: 7189
Ion Ratio Lower Upper
106 100
91 226.2 101.4 304.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023720.D

Acq: 10 Nov 2025 17:22

Instrument :

MSVOA_Y

ClientSampleId :

D-LAW-25-0156-0166-COMP

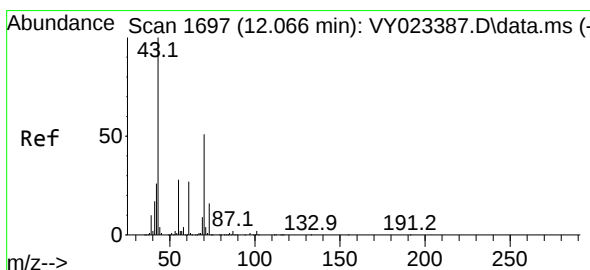
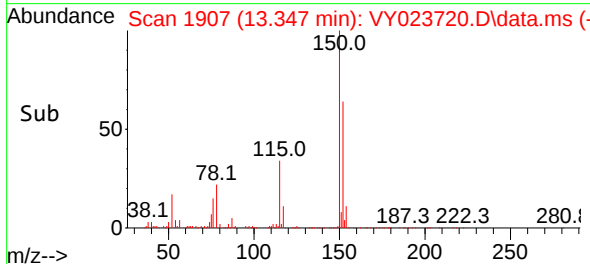
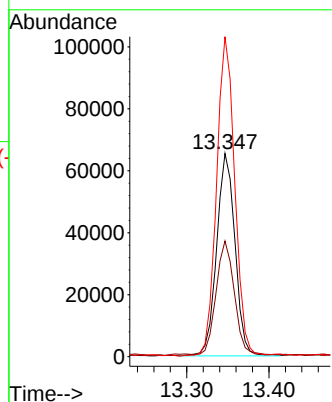
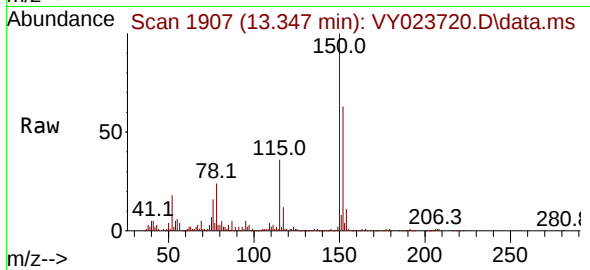
Tgt Ion:152 Resp: 101655

Ion Ratio Lower Upper

152 100

115 55.3 27.1 81.2

150 155.5 0.0 347.4



#74

N-ethyl acetate

Concen: 1.883 ug/l

RT: 12.054 min Scan# 1695

Delta R.T. -0.012 min

Lab File: VY023720.D

Acq: 10 Nov 2025 17:22

Tgt Ion: 43 Resp: 2266

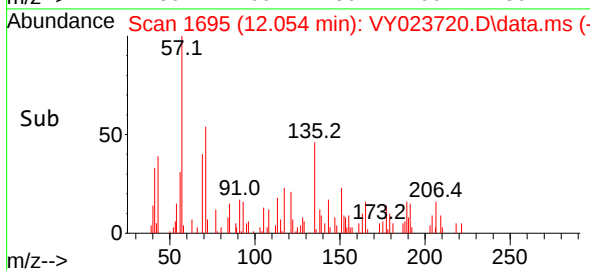
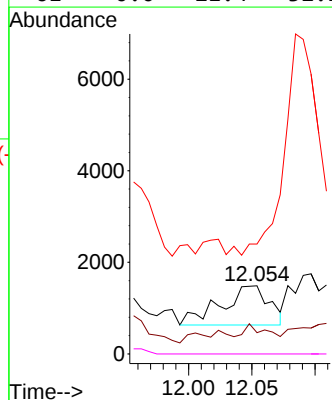
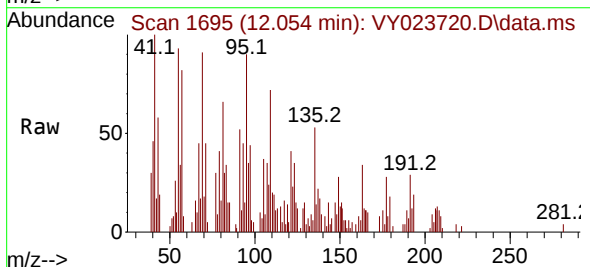
Ion Ratio Lower Upper

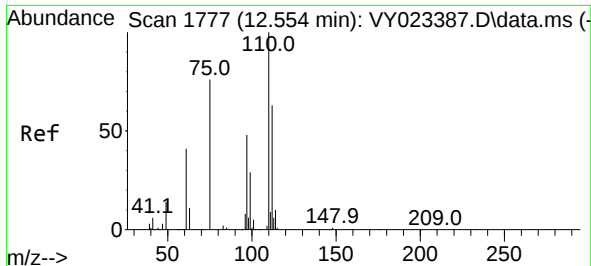
43 100

70 10.7 41.1 61.7#

55 0.0 23.0 34.6#

61 0.0 21.4 32.2#

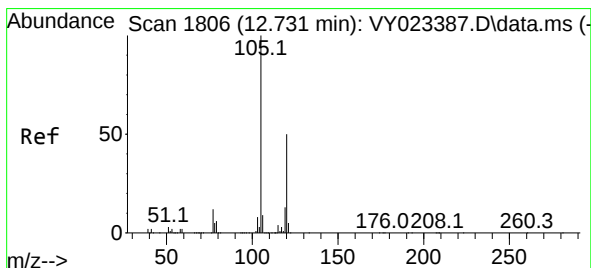
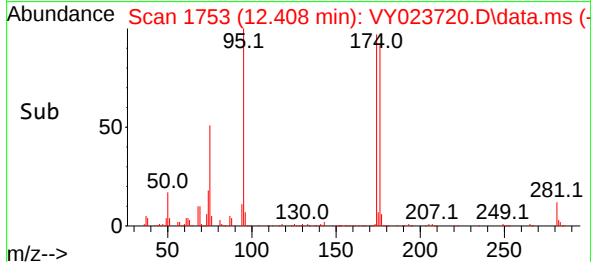
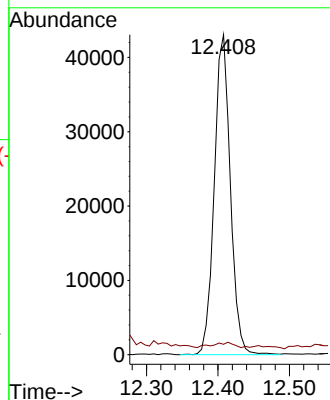
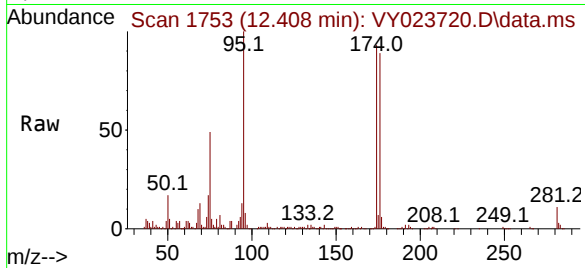




#76
1,2,3-Trichloropropane
Concen: 74.799 ug/l
RT: 12.408 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

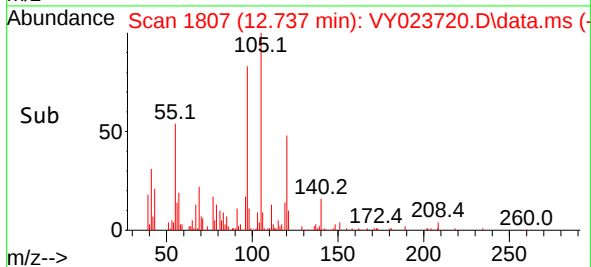
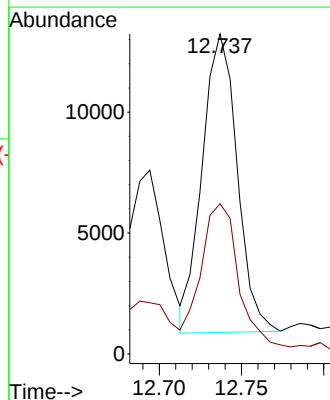
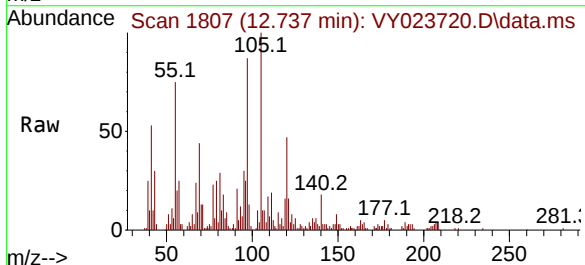
Instrument :
MSVOA_Y
ClientSampleId :
D-LAW-25-0156-0166-COMP

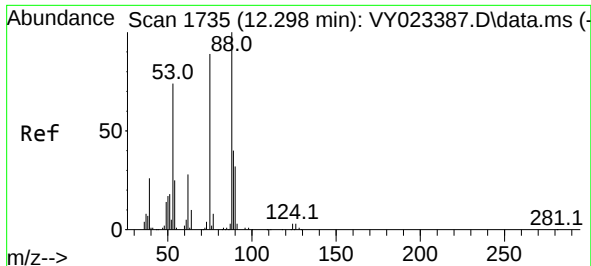
Tgt Ion: 75 Resp: 67085
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 3.368 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion: 105 Resp: 18232
Ion Ratio Lower Upper
105 100
120 52.7 25.4 76.4

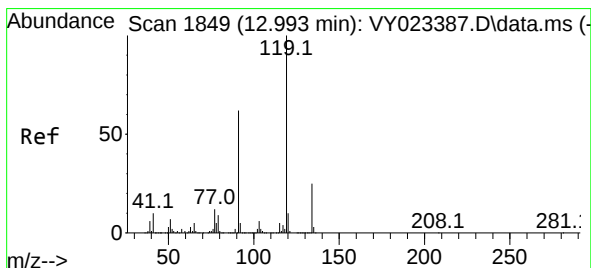
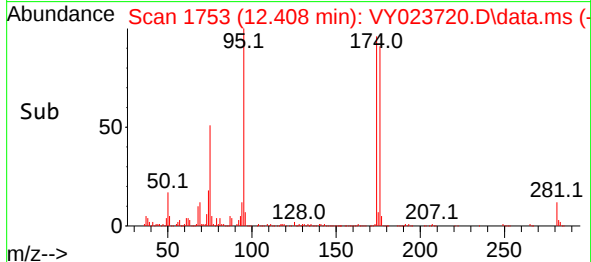
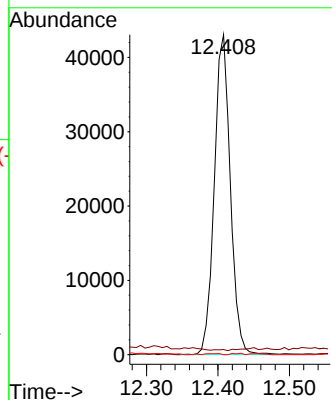
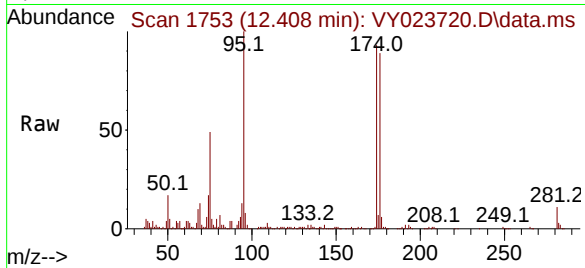




#81
 trans-1,4-Dichloro-2-butene
 Concen: 183.422 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY023720.D
 Acq: 10 Nov 2025 17:22

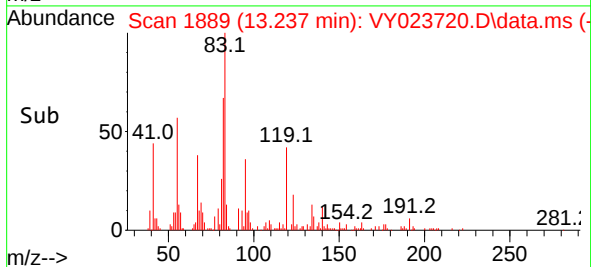
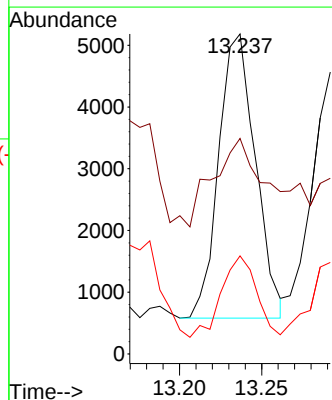
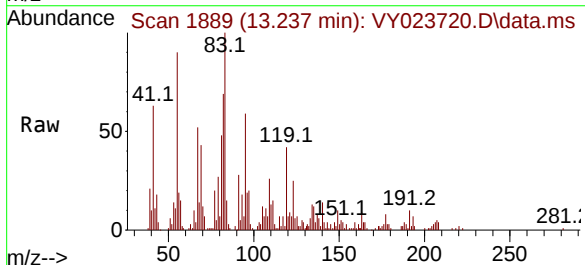
Instrument :
 MSVOA_Y
 ClientSampleId :
 D-LAW-25-0156-0166-COMP

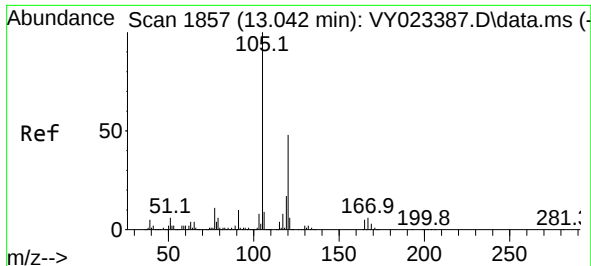
Tgt Ion: 75 Resp: 67085
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 102.8#
 89 0.4 39.0 58.4#



#83
 tert-Butylbenzene
 Concen: 1.432 ug/l
 RT: 13.237 min Scan# 1889
 Delta R.T. 0.244 min
 Lab File: VY023720.D
 Acq: 10 Nov 2025 17:22

Tgt Ion: 119 Resp: 7158
 Ion Ratio Lower Upper
 119 100
 91 40.8 29.9 89.8
 134 27.2 12.9 38.7

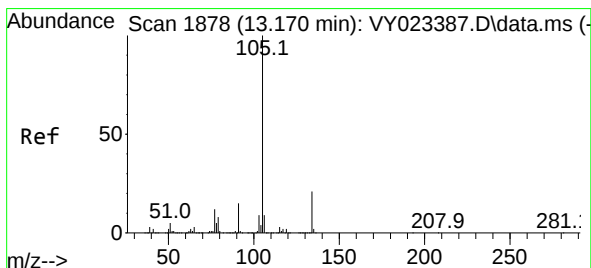
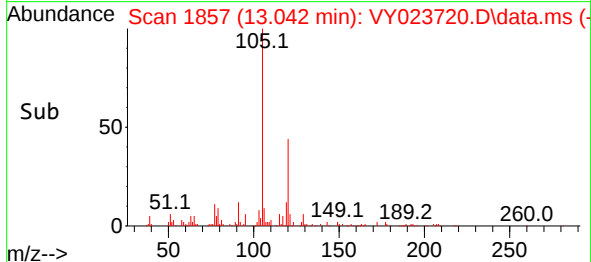
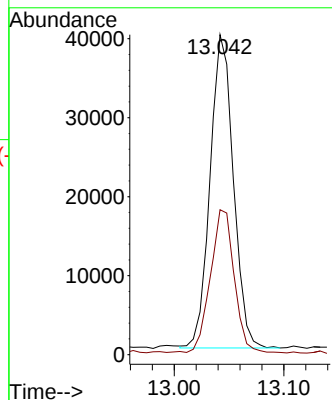
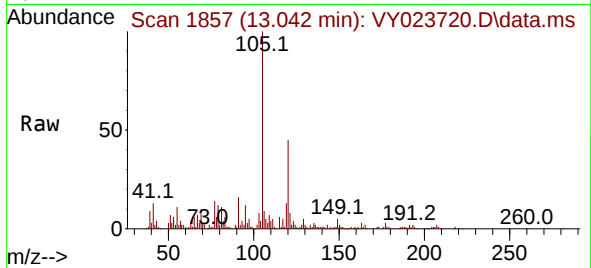




#84
1,2,4-Trimethylbenzene
Concen: 10.829 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

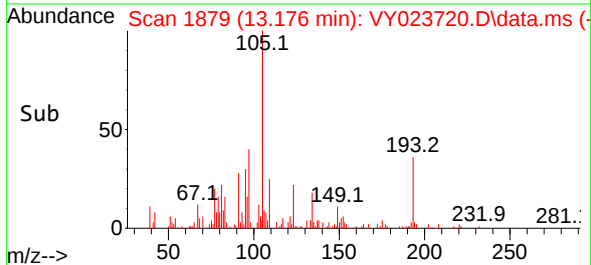
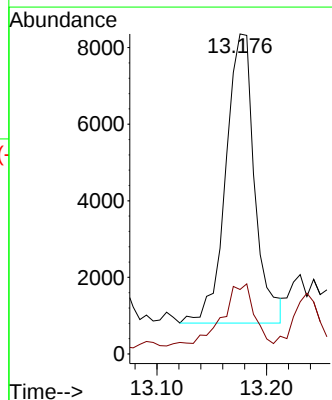
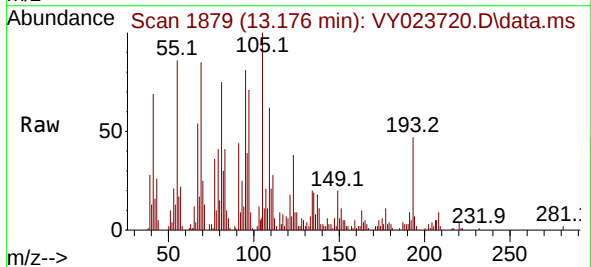
Instrument :
MSVOA_Y
ClientSampleId :
D-LAW-25-0156-0166-COMP

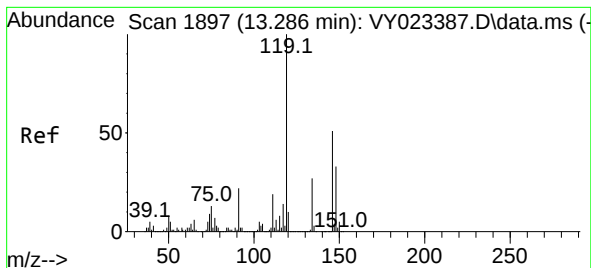
Tgt Ion:105 Resp: 58503
Ion Ratio Lower Upper
105 100
120 46.8 23.8 71.2



#85
sec-Butylbenzene
Concen: 1.931 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion:105 Resp: 13847
Ion Ratio Lower Upper
105 100
134 24.0 10.7 32.1





#86

p-Isopropyltoluene

Concen: 1.071 ug/l

RT: 13.292 min Scan# 119

Delta R.T. 0.006 min

Lab File: VY023720.D

Acq: 10 Nov 2025 17:22

Instrument :

MSVOA_Y

ClientSampleId :

D-LAW-25-0156-0166-COMP

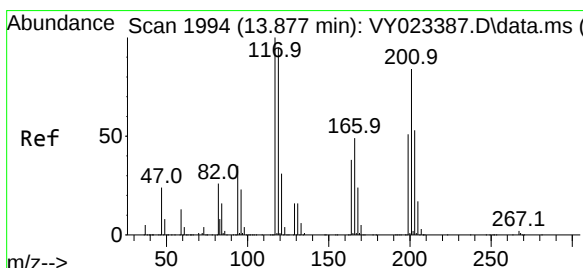
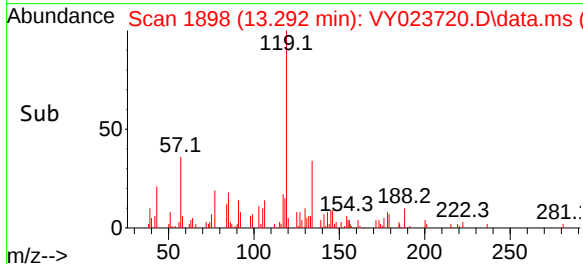
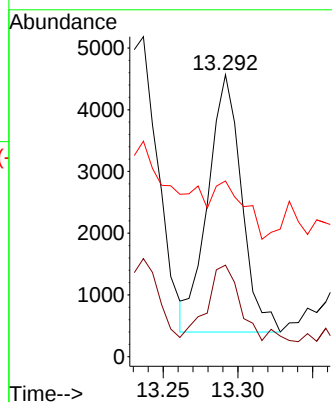
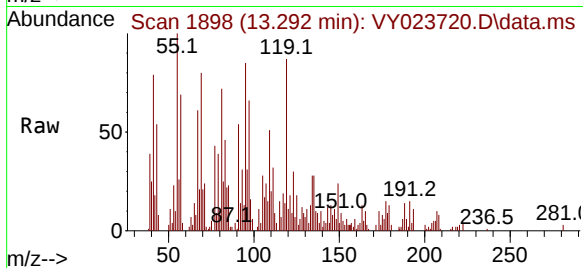
Tgt Ion:119 Resp: 6539

Ion Ratio Lower Upper

119 100

134 30.5 13.6 40.7

91 0.0 10.9 32.9#



#90

Hexachloroethane

Concen: 1.478 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.018 min

Lab File: VY023720.D

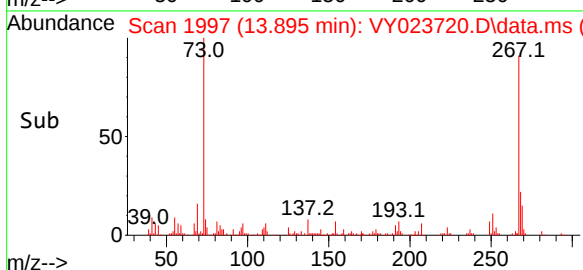
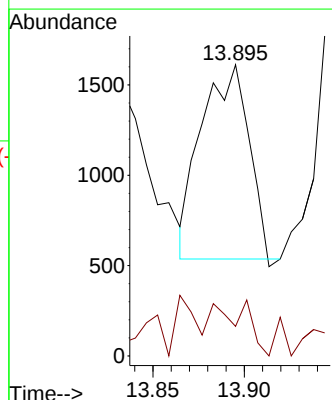
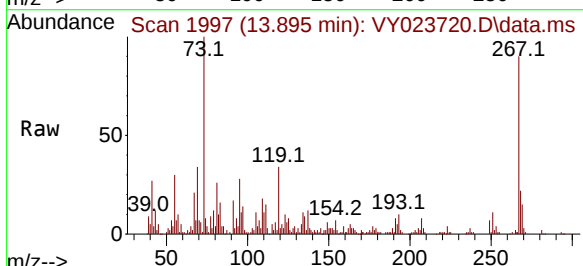
Acq: 10 Nov 2025 17:22

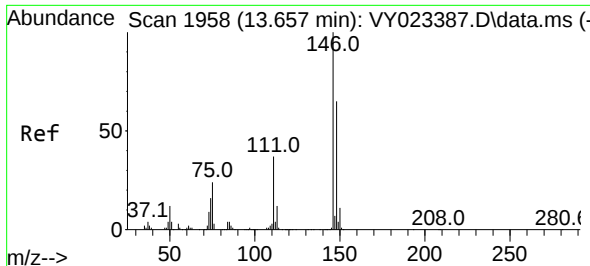
Tgt Ion:117 Resp: 1940

Ion Ratio Lower Upper

117 100

201 20.1 43.8 131.4#

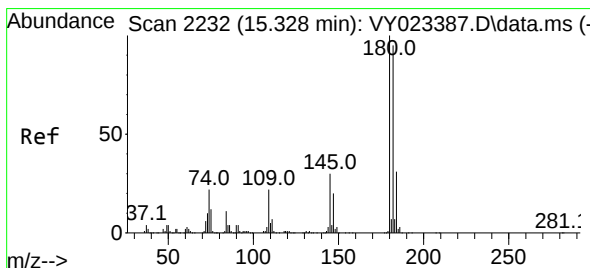
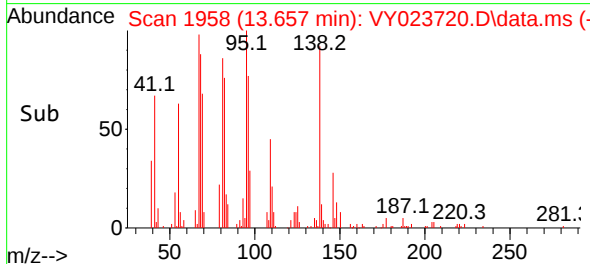
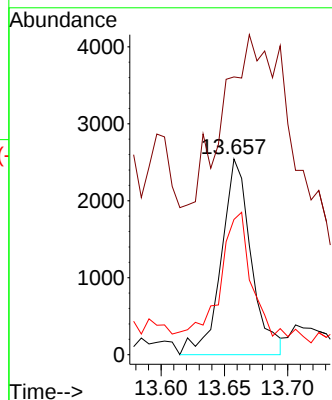
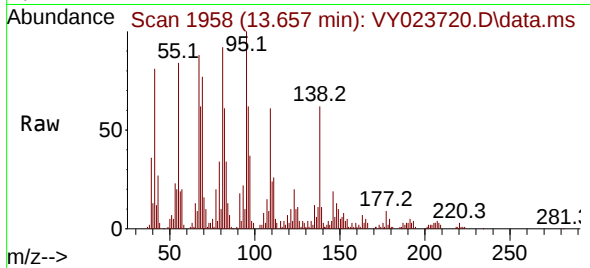




#91
1,2-Dichlorobenzene
Concen: 1.376 ug/l
RT: 13.657 min Scan# 1958
Delta R.T. 0.000 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Instrument : MSVOA_Y
ClientSampleId : D-LAW-25-0156-0166-COMP

Tgt Ion:146 Resp: 4184
Ion Ratio Lower Upper
146 100
111 302.2 19.0 57.0#
148 75.4 32.1 96.3



#96
1,2,3-Trichlorobenzene
Concen: 2.794 ug/l
RT: 15.346 min Scan# 2235
Delta R.T. 0.018 min
Lab File: VY023720.D
Acq: 10 Nov 2025 17:22

Tgt Ion:180 Resp: 4588
Ion Ratio Lower Upper
180 100
182 0.0 47.9 143.8#
145 0.0 15.3 45.9#

