

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023911.D
 Acq On : 09 Dec 2025 16:17
 Operator : SY/MD
 Sample : Q3809-07
 Misc : 2.61g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-3

Quant Time: Dec 10 02:30:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 03:49:13 2025
 Response via : Initial Calibration

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

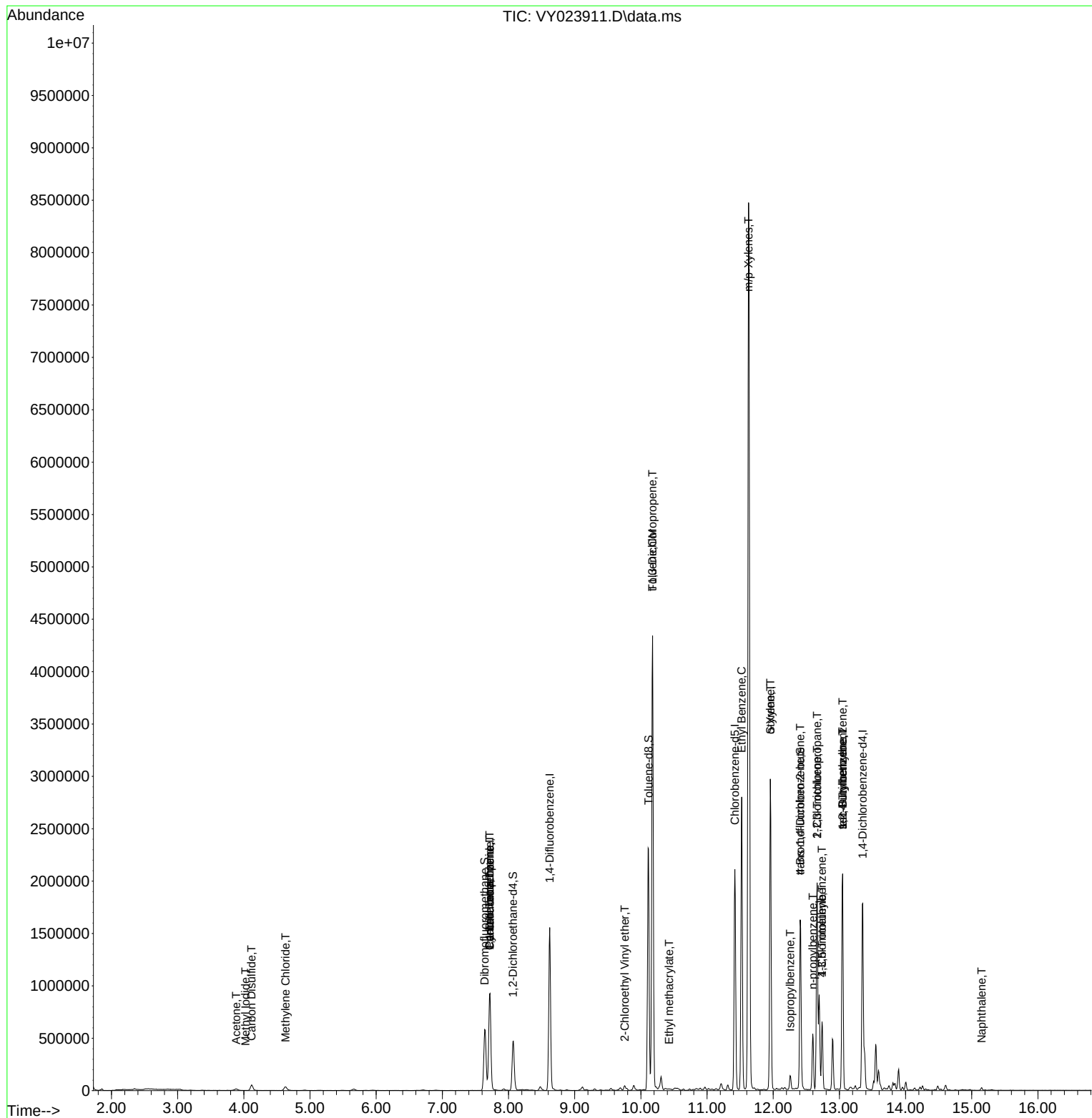
Internal Standards						
1) Pentafluorobenzene	7.720	168	784873	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1343514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1171621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	495420	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	369300	47.035	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	94.080%		
35) Dibromofluoromethane	7.640	113	420346	48.781	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.560%		
50) Toluene-d8	10.115	98	1550509	46.240	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.480%		
62) 4-Bromofluorobenzene	12.408	95	477777	41.775	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	83.540%		
Target Compounds						Qvalue
10) Methyl Iodide	4.025	142	373	2.480	ug/l #	68
11) Tert butyl alcohol	4.909	59	101	Below Cal	#	74
16) Acetone	3.885	43	23097	9.817	ug/l	98
17) Carbon Disulfide	4.117	76	106457	4.765	ug/l	96
20) Methylene Chloride	4.629	84	26270	1.280	ug/l	88
31) Cyclohexane	7.713	56	16778	1.141	ug/l #	7
36) 1,1-Dichloropropene	7.713	75	50924	4.008	ug/l #	50
38) Carbon Tetrachloride	7.713	117	71780	5.119	ug/l #	16
52) Toluene	10.176	92	1823967	75.840	ug/l	99
53) t-1,3-Dichloropropene	10.176	75	19430	1.657	ug/l #	1
56) Ethyl methacrylate	10.426	69	1128	4.258	ug/l #	33
58) 2-Chloroethyl Vinyl ether	9.756	63	113	14.743	ug/l #	47
67) Ethyl Benzene	11.524	91	1877648	40.615	ug/l	98
68) m/p-Xylenes	11.627	106	2650470	149.995	ug/l	95
69) o-Xylene	11.957	106	795079	48.106	ug/l	97
70) Styrene	11.957	104	39655	1.456	ug/l #	1
73) Isopropylbenzene	12.255	105	83687	2.293	ug/l	98
76) 1,2,3-Trichloropropane	12.664	75	10270	2.091	ug/l #	100
78) n-propylbenzene	12.597	91	398765	9.054	ug/l	97
79) 2-Chlorotoluene	12.664	91	145302	5.809	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.737	105	322118	10.861	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	237925	116.025	ug/l #	14
82) 4-Chlorotoluene	12.737	91	32415	1.250	ug/l #	41
83) tert-Butylbenzene	13.048	119	137570	5.145	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.048	105	1102291	37.516	ug/l	96
85) sec-Butylbenzene	13.048	105	1102291	27.714	ug/l #	56
95) Naphthalene	15.151	128	20887	1.439	ug/l	98

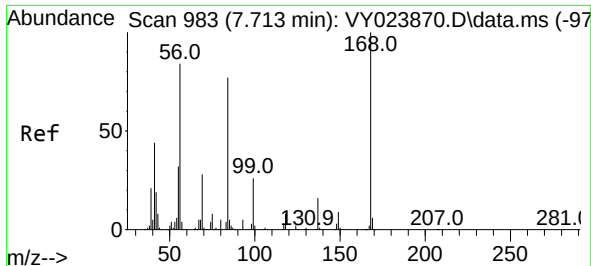
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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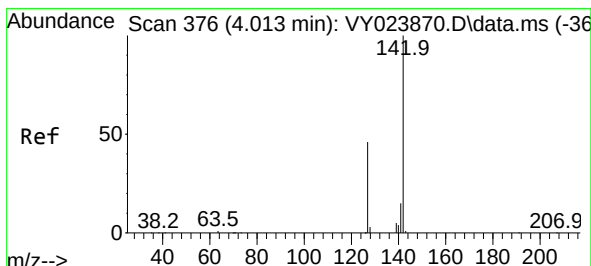
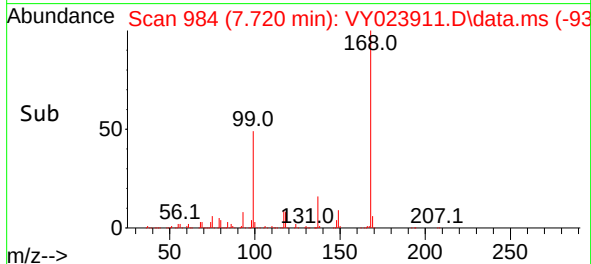
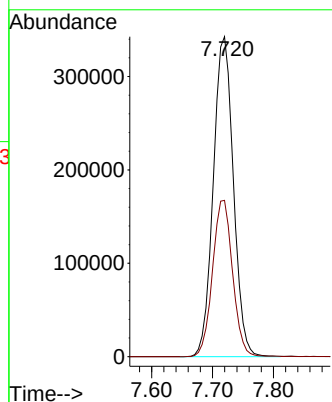
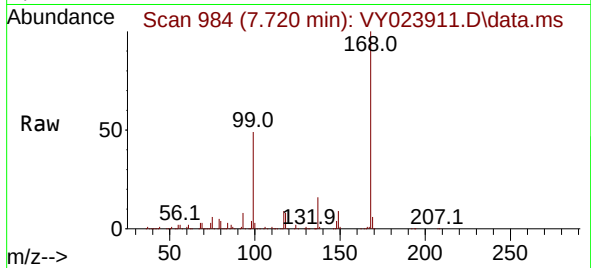




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.007 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

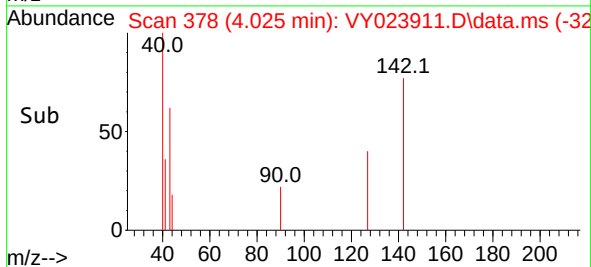
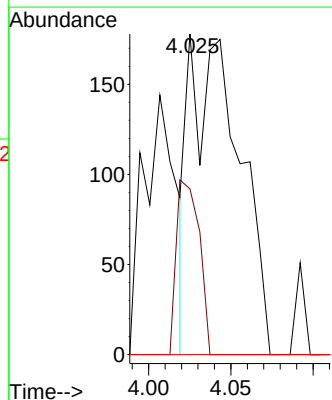
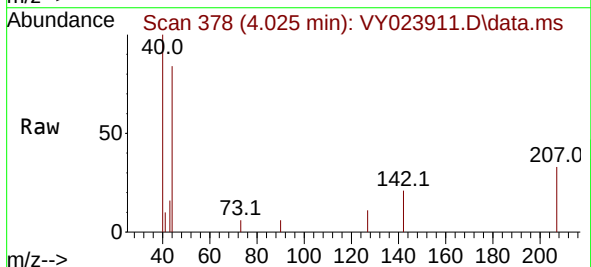
Instrument :
MSVOA_Y
ClientSampleId :
B-3

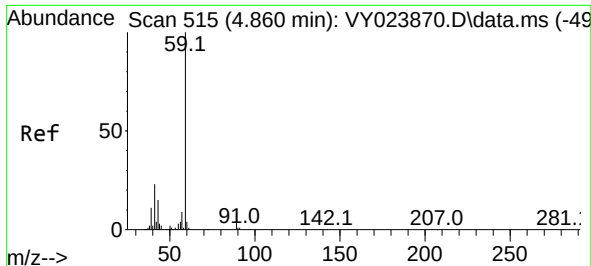
Tgt Ion:168 Resp: 784873
Ion Ratio Lower Upper
168 100
99 48.9 42.5 63.7



#10
Methyl Iodide
Concen: 2.480 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion:142 Resp: 373
Ion Ratio Lower Upper
142 100
127 25.2 36.1 54.1#
141 0.0 11.8 17.8#

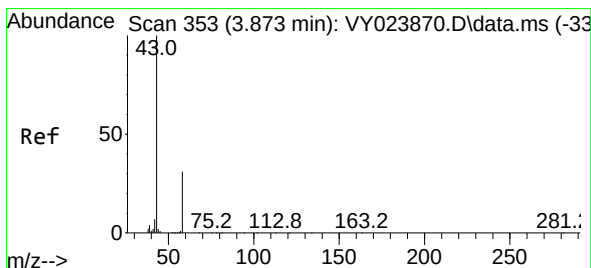
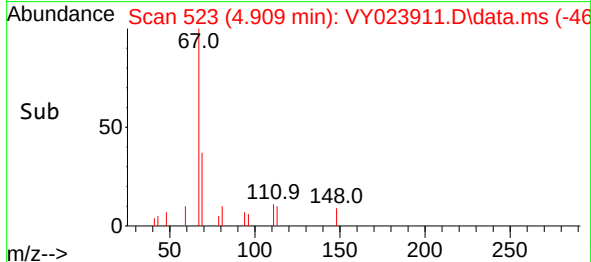
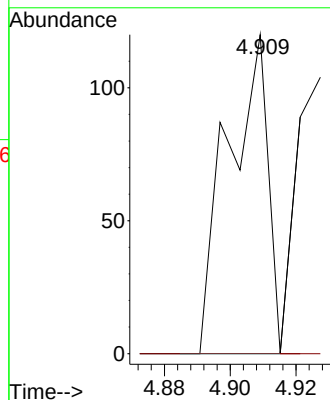
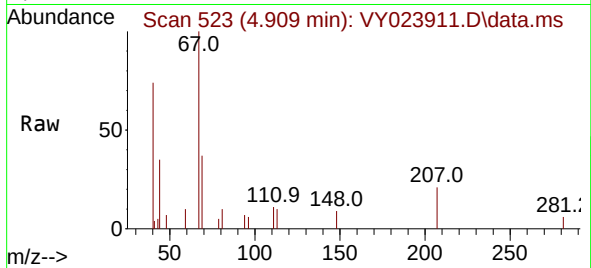




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.909 min Scan# 515
Delta R.T. 0.049 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

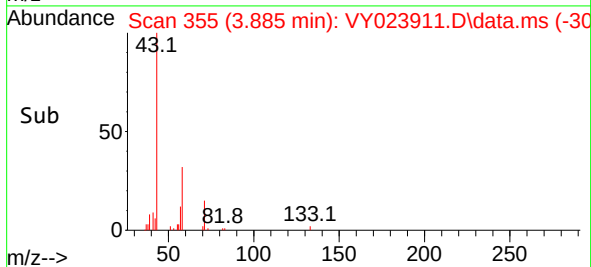
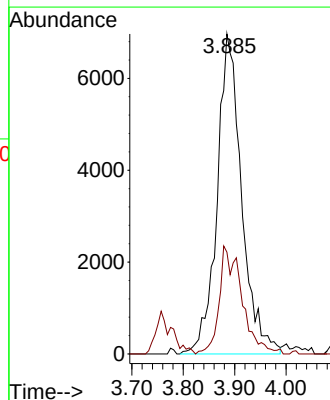
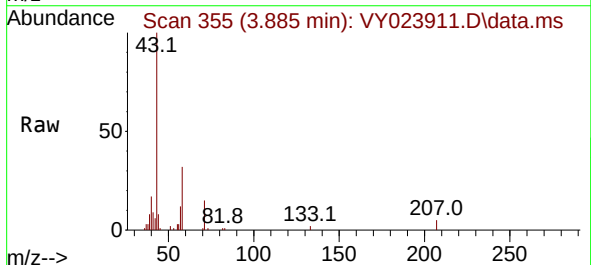
Instrument :
MSVOA_Y
ClientSampleId :
B-3

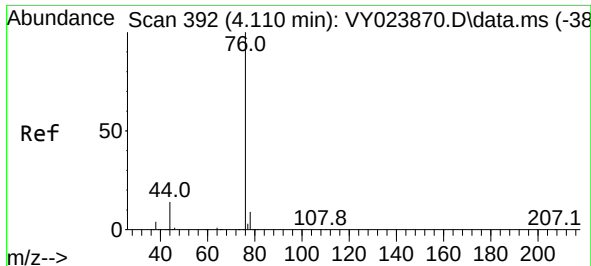
Tgt Ion: 59 Resp: 101
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



#16
Acetone
Concen: 9.817 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 43 Resp: 23097
Ion Ratio Lower Upper
43 100
58 30.2 25.1 37.7

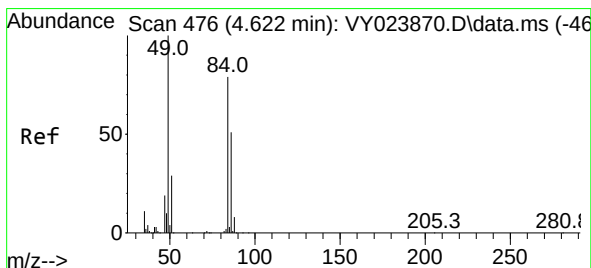
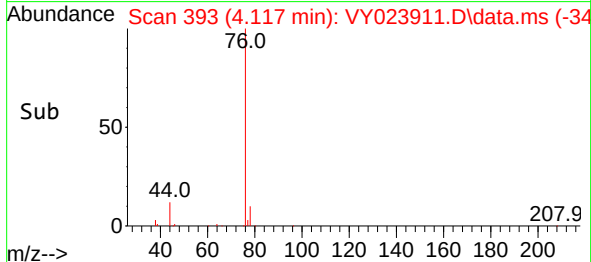
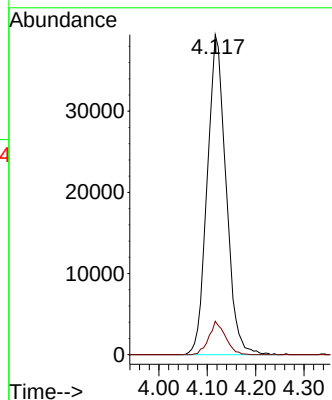
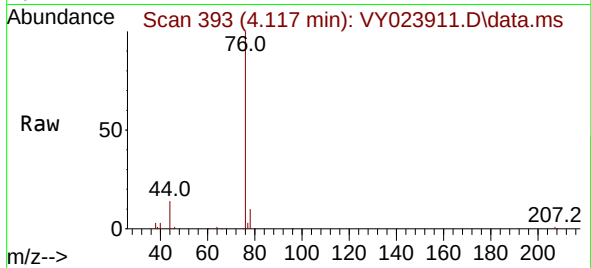




#17
Carbon Disulfide
Concen: 4.765 ug/l
RT: 4.117 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

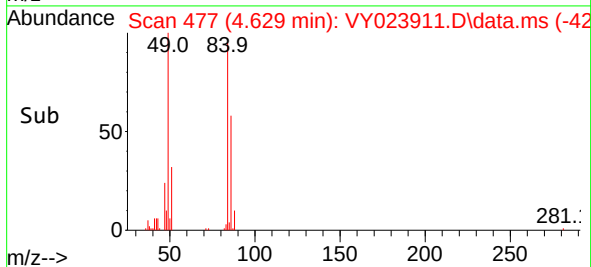
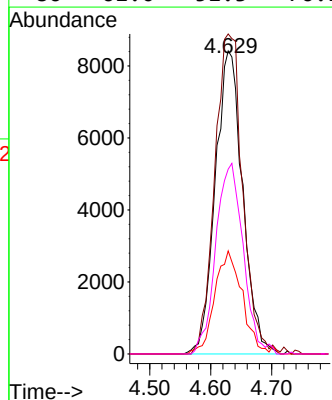
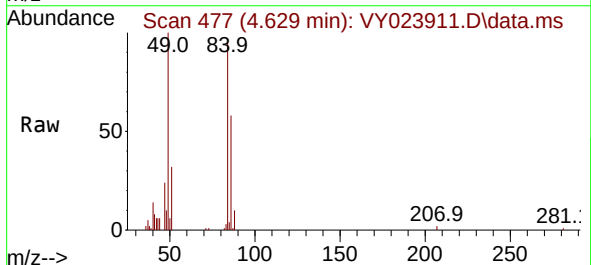
Instrument :
MSVOA_Y
ClientSampleId :
B-3

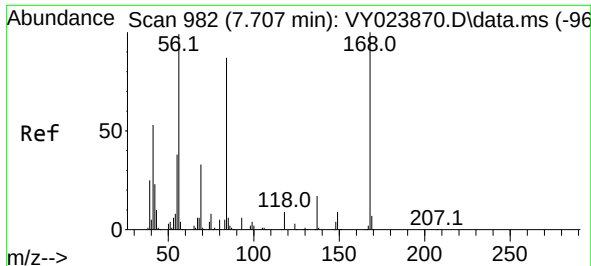
Tgt Ion: 76 Resp: 106457
Ion Ratio Lower Upper
76 100
78 10.4 7.1 10.7



#20
Methylene Chloride
Concen: 1.280 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 84 Resp: 26270
Ion Ratio Lower Upper
84 100
49 105.6 100.6 151.0
51 34.0 29.0 43.6
86 61.0 51.3 76.9

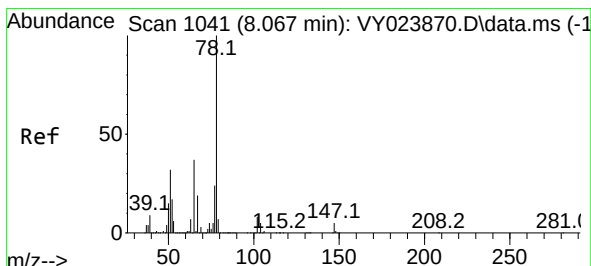
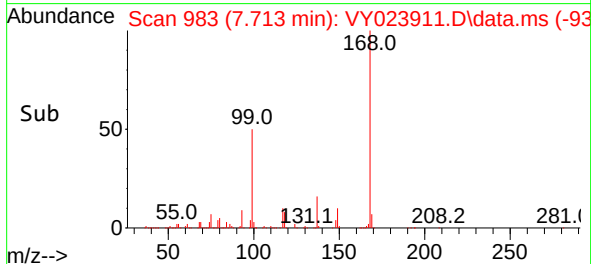
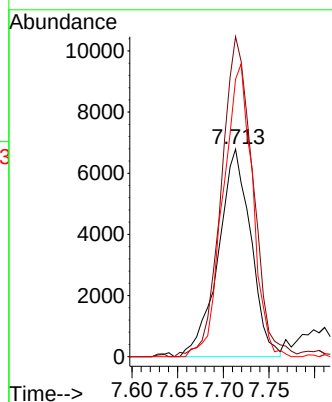
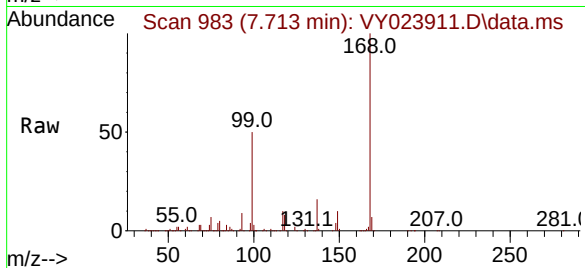




#31
Cyclohexane
Concen: 1.141 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

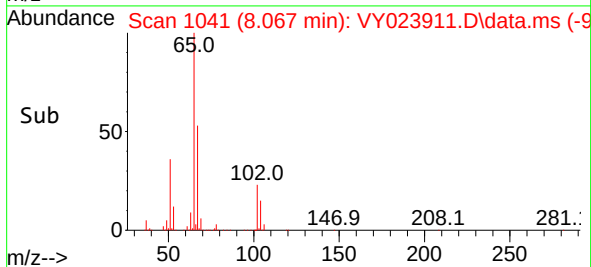
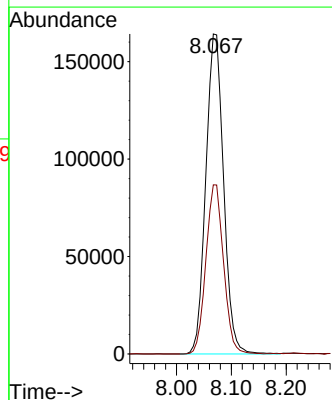
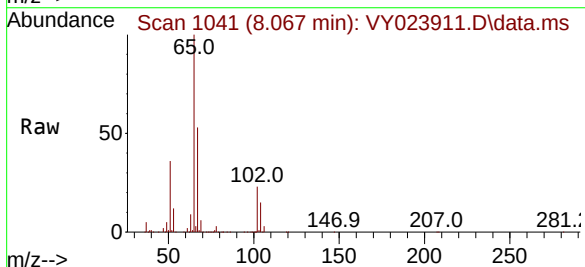
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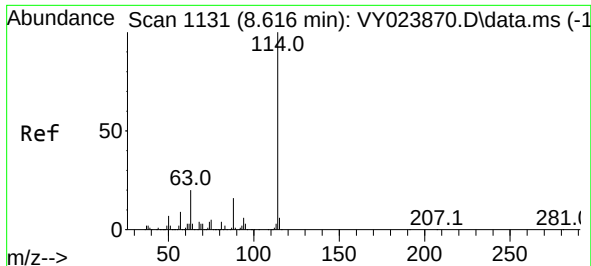
Tgt Ion: 56 Resp: 16778
Ion Ratio Lower Upper
56 100
69 152.1 26.8 40.2#
84 133.7 70.4 105.6#



#33
1,2-Dichloroethane-d4
Concen: 47.035 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 65 Resp: 369300
Ion Ratio Lower Upper
65 100
67 52.5 0.0 107.2

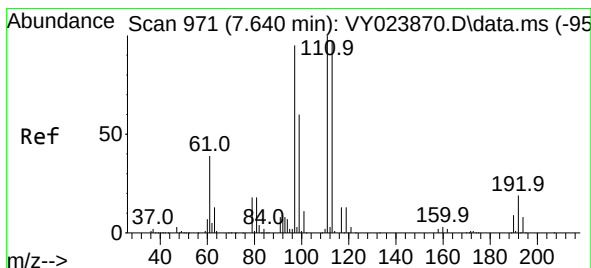
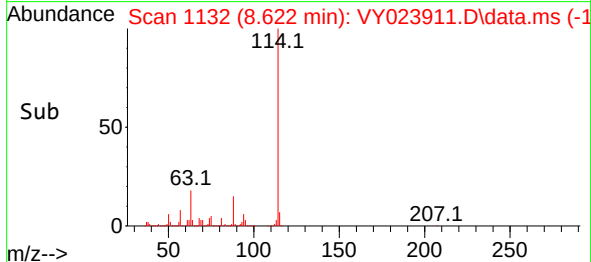
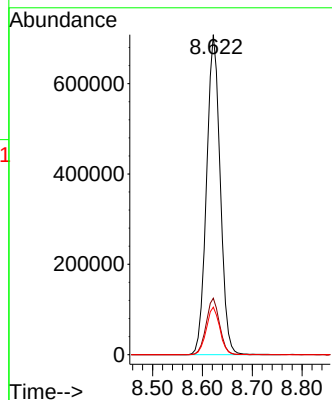
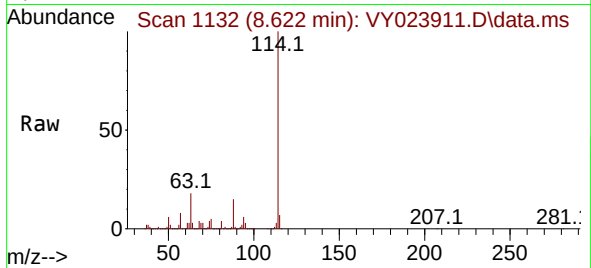




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

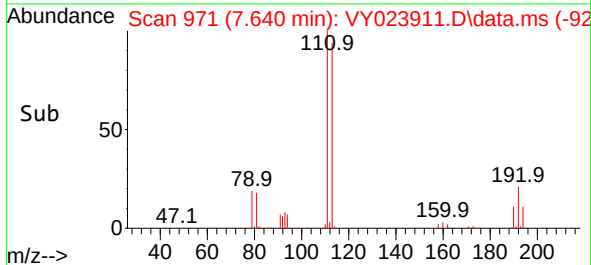
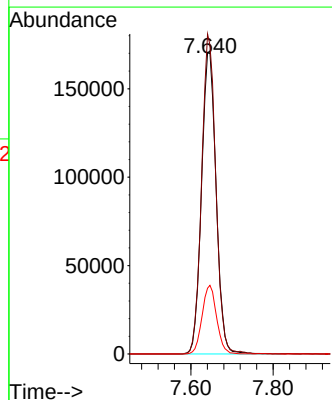
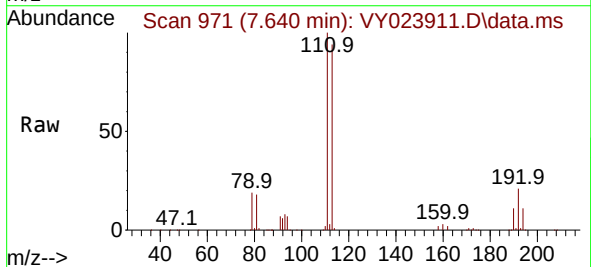
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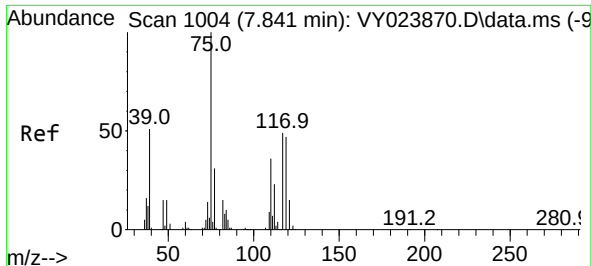
Tgt Ion:114 Resp: 1343514
Ion Ratio Lower Upper
114 100
63 17.7 0.0 39.2
88 14.9 0.0 31.4



#35
Dibromofluoromethane
Concen: 48.781 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion:113 Resp: 420346
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.2
192 22.6 15.8 23.8





#36

1,1-Dichloropropene

Concen: 4.008 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

Instrument :

MSVOA_Y

ClientSampleId :

B-3

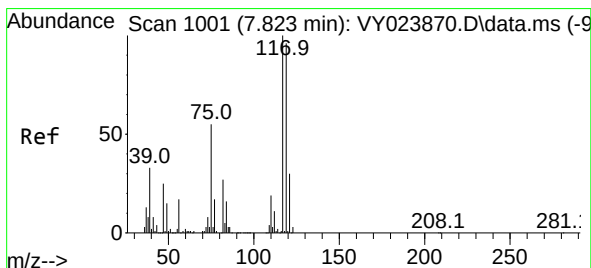
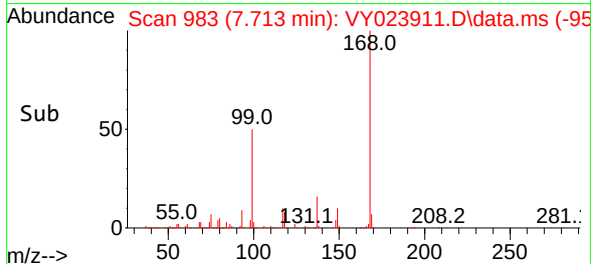
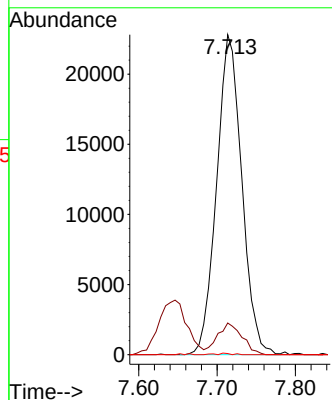
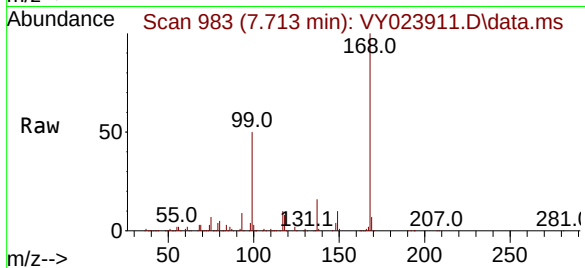
Tgt Ion: 75 Resp: 50924

Ion Ratio Lower Upper

75 100

110 9.8 17.6 52.9#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.119 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.110 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

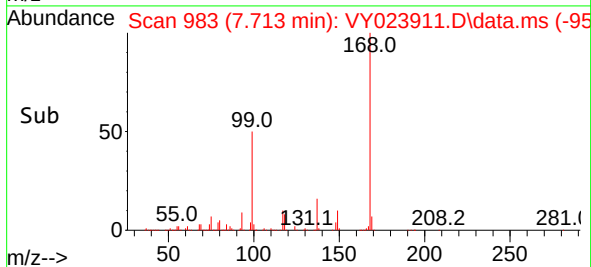
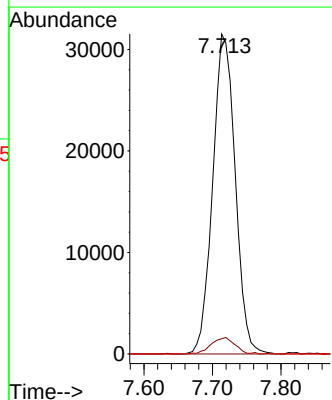
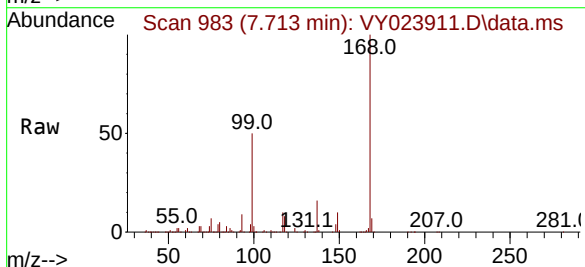
Tgt Ion: 117 Resp: 71780

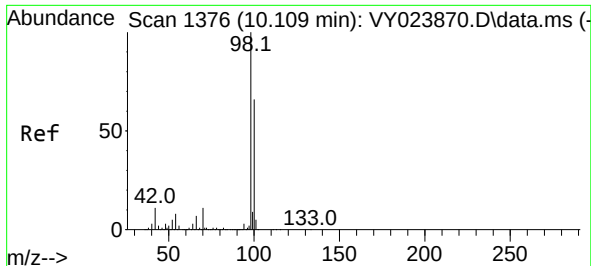
Ion Ratio Lower Upper

117 100

119 4.7 77.0 115.6#

121 0.0 23.9 35.9#

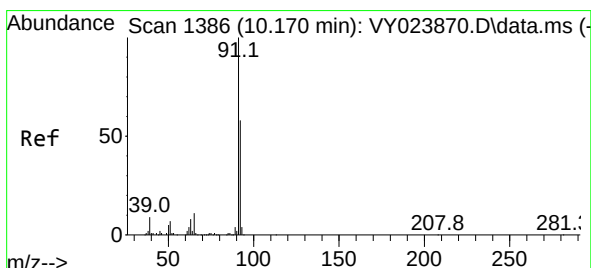
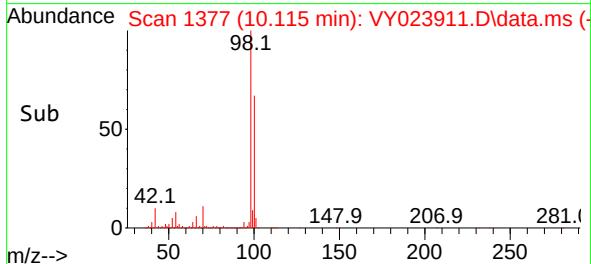
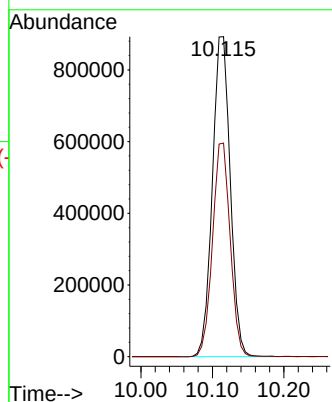
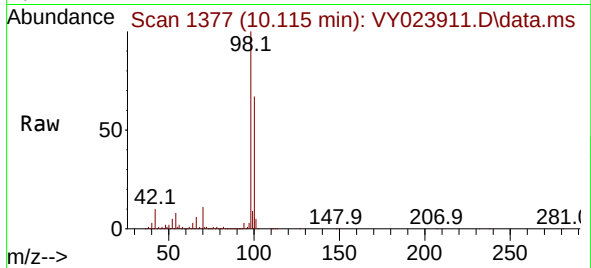




#50
Toluene-d8
Concen: 46.240 ug/l
RT: 10.115 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

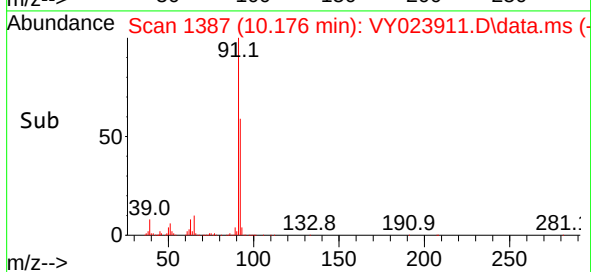
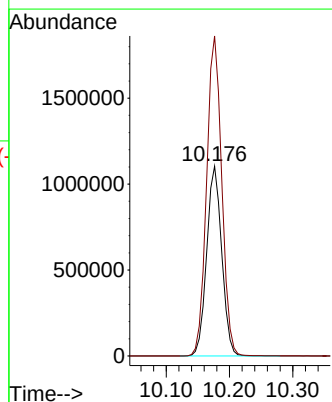
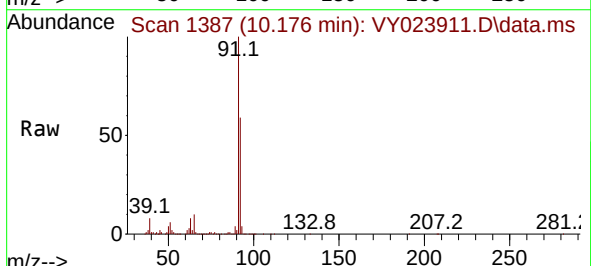
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B-3

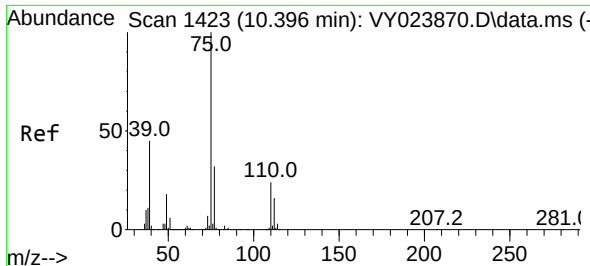
Tgt Ion: 98 Resp: 1550509
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7



#52
Toluene
Concen: 75.840 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 92 Resp: 1823967
Ion Ratio Lower Upper
92 100
91 170.0 137.3 205.9

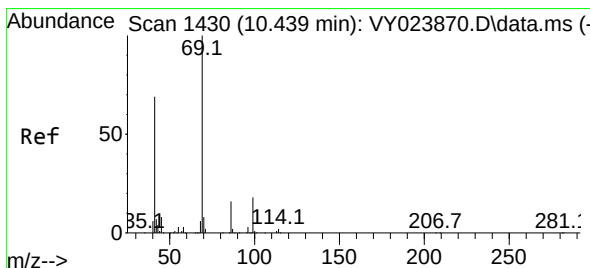
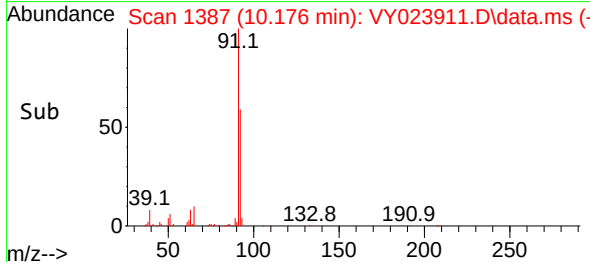
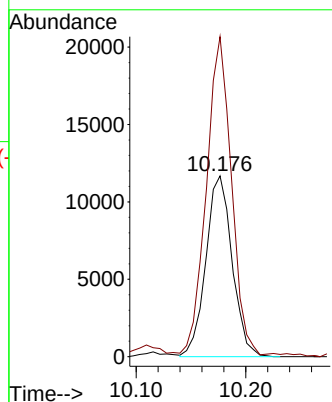
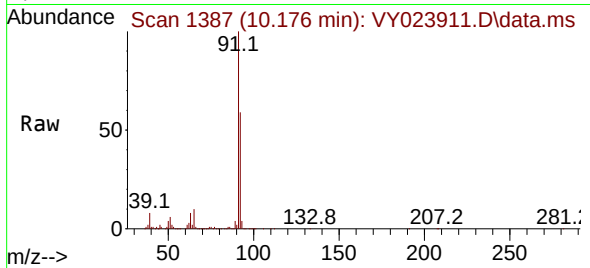




#53
t-1,3-Dichloropropene
Concen: 1.657 ug/l
RT: 10.176 min Scan# 11
Delta R.T. -0.219 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

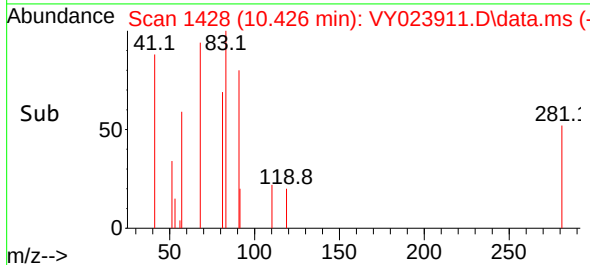
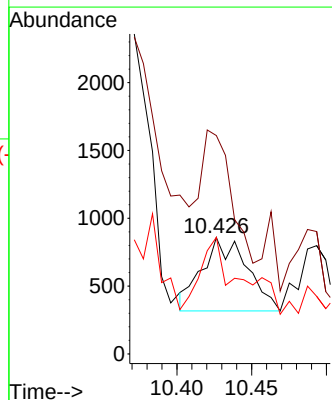
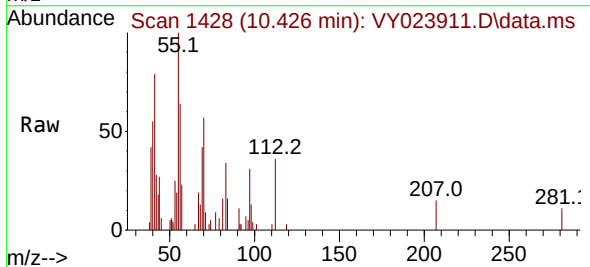
Instrument :
MSVOA_Y
ClientSampleId :
B-3

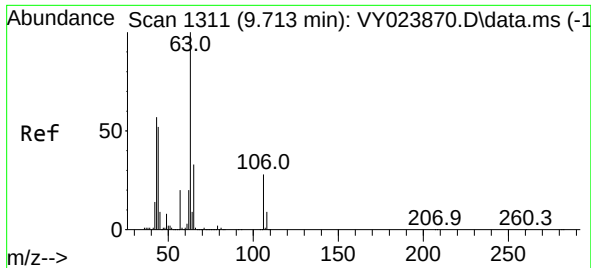
Tgt Ion: 75 Resp: 19430
Ion Ratio Lower Upper
75 100
77 175.8 26.0 39.0#



#56
Ethyl methacrylate
Concen: 4.258 ug/l
RT: 10.426 min Scan# 1428
Delta R.T. -0.012 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 69 Resp: 1128
Ion Ratio Lower Upper
69 100
41 121.5 52.5 78.7#
39 0.0 27.1 40.7#

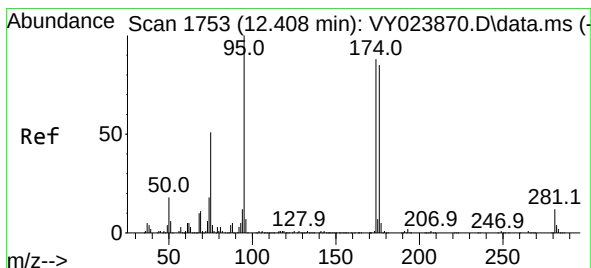
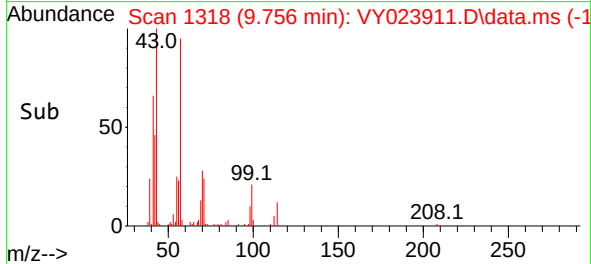
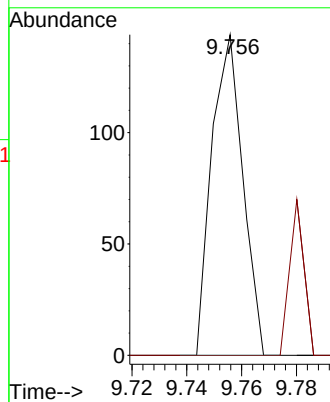
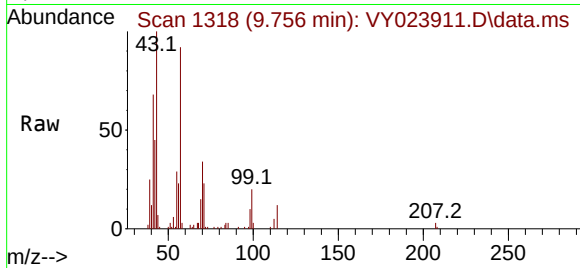




#58
2-Chloroethyl Vinyl ether
Concen: 14.743 ug/l
RT: 9.756 min Scan# 1113
Delta R.T. 0.043 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

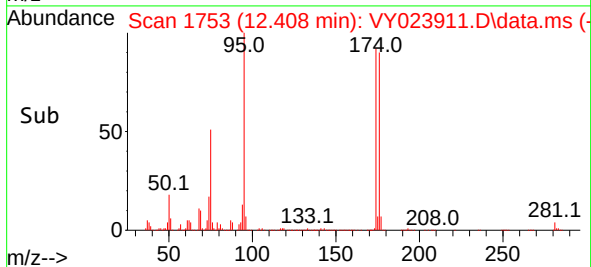
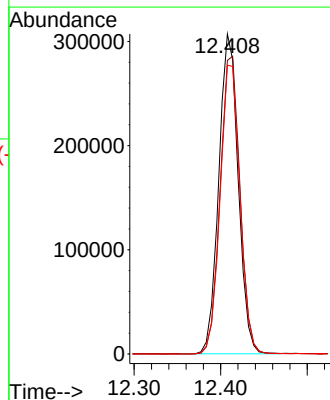
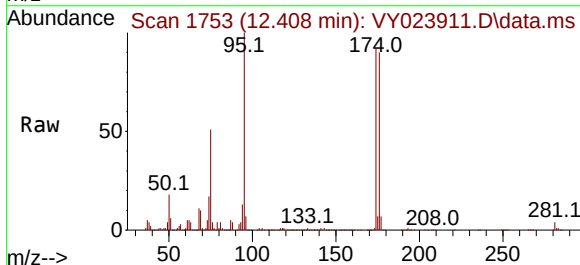
Instrument :
MSVOA_Y
ClientSampleId :
B-3

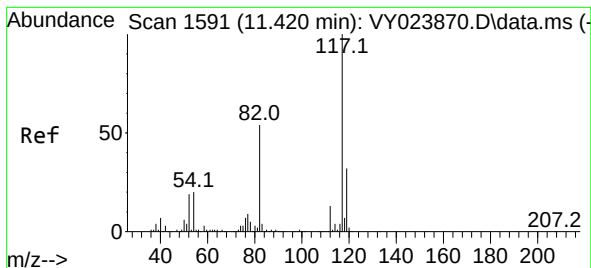
Tgt Ion: 63 Resp: 113
Ion Ratio Lower Upper
63 100
106 0.0 22.5 33.7#



#62
4-Bromofluorobenzene
Concen: 41.775 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 95 Resp: 477777
Ion Ratio Lower Upper
95 100
174 95.1 0.0 169.6
176 92.4 0.0 164.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

Instrument :

MSVOA_Y

ClientSampleId :

B-3

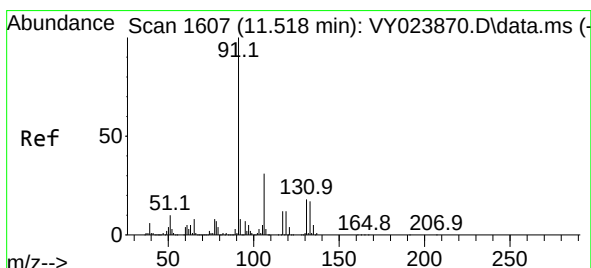
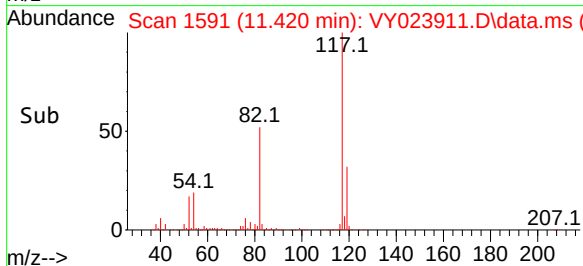
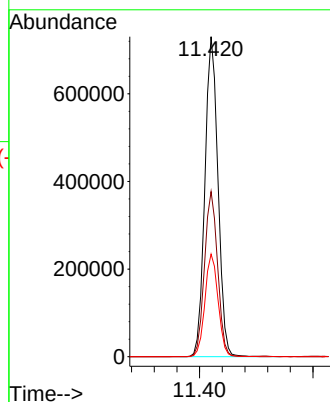
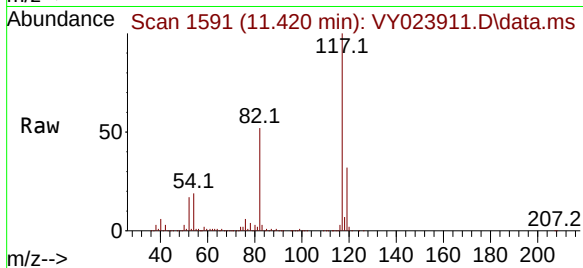
Tgt Ion:117 Resp: 1171621

Ion Ratio Lower Upper

117 100

82 51.6 43.1 64.7

119 32.0 26.0 39.0



#67

Ethyl Benzene

Concen: 40.615 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.006 min

Lab File: VY023911.D

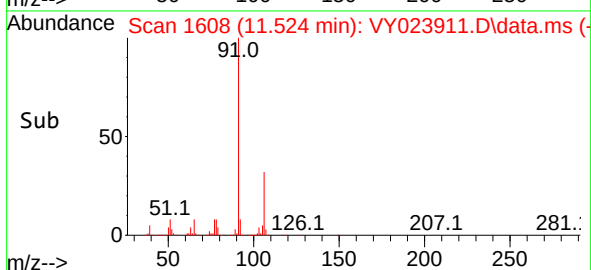
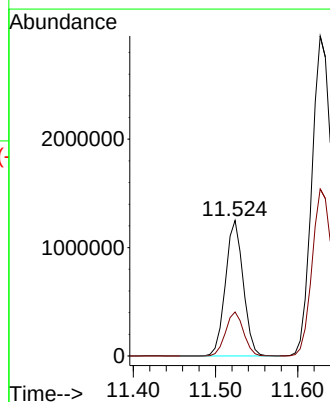
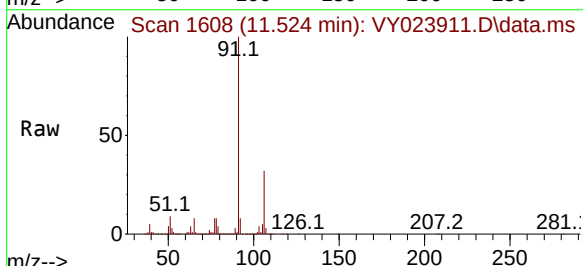
Acq: 09 Dec 2025 16:17

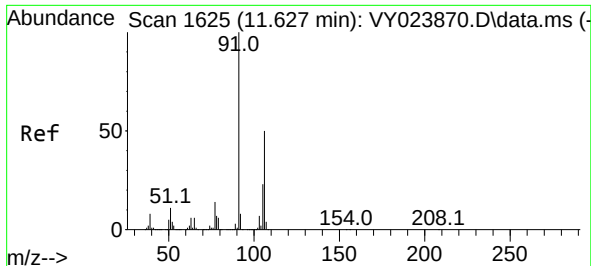
Tgt Ion: 91 Resp: 1877648

Ion Ratio Lower Upper

91 100

106 32.5 25.0 37.6

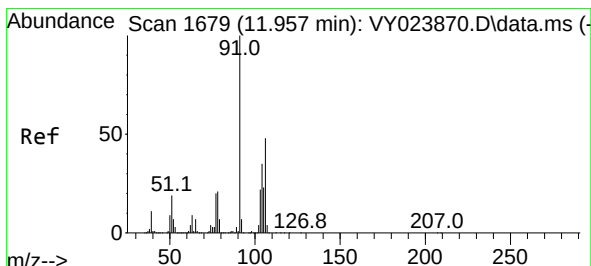
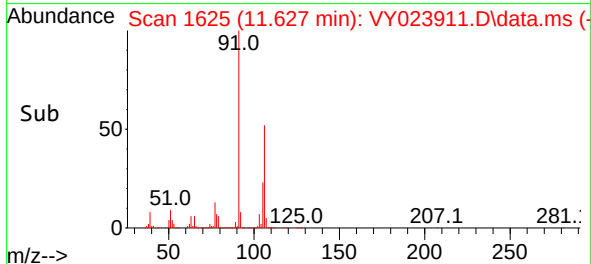
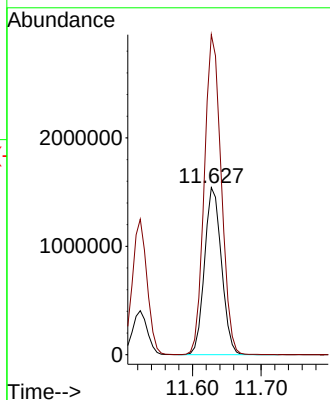
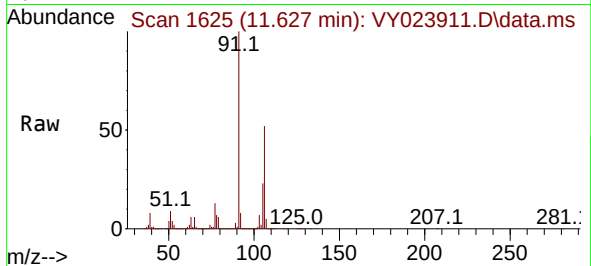




#68
m/p-Xylenes
Concen: 149.995 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

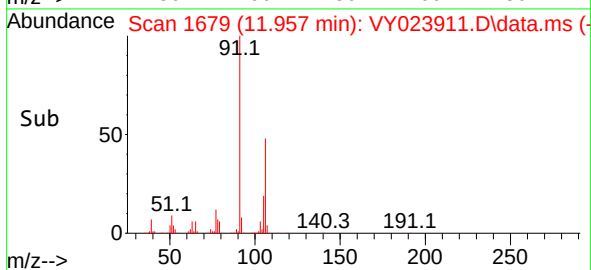
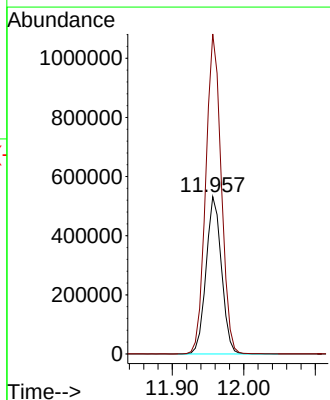
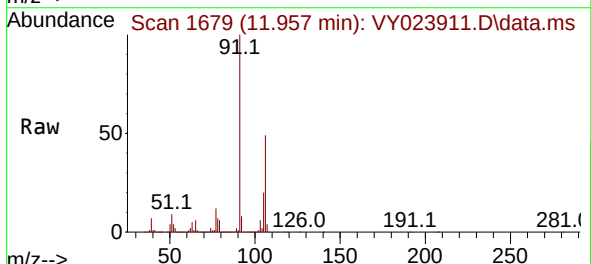
Instrument :
MSVOA_Y
ClientSampleId :
B-3

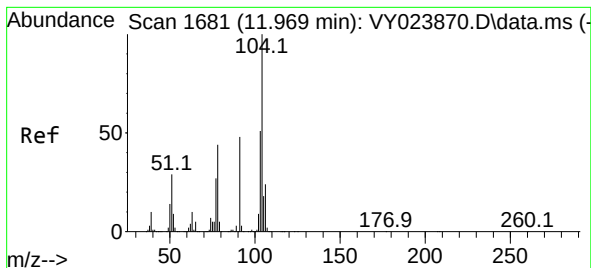
Tgt Ion:106 Resp: 2650470
Ion Ratio Lower Upper
106 100
91 191.6 159.7 239.5



#69
o-Xylene
Concen: 48.106 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. 0.000 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion:106 Resp: 795079
Ion Ratio Lower Upper
106 100
91 204.8 104.4 313.1





#70

Styrene

Concen: 1.456 ug/l

RT: 11.957 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

Instrument :

MSVOA_Y

ClientSampleId :

B-3

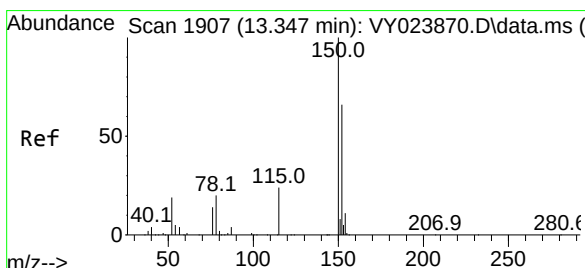
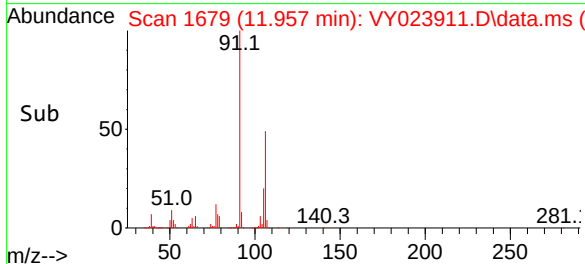
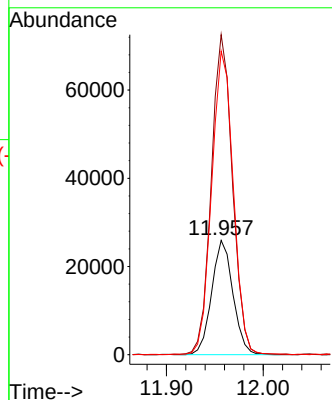
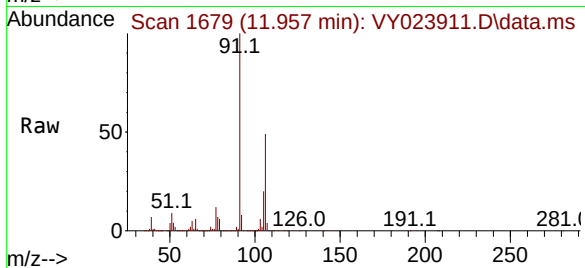
Tgt Ion:104 Resp: 39655

Ion Ratio Lower Upper

104 100

78 278.8 38.8 58.2#

103 269.9 43.9 65.9#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

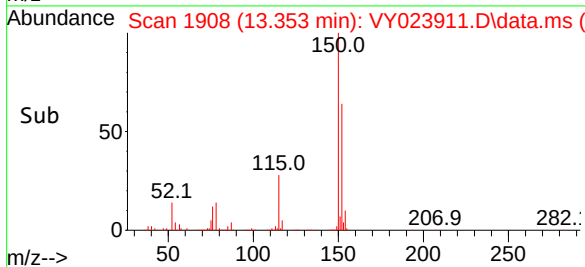
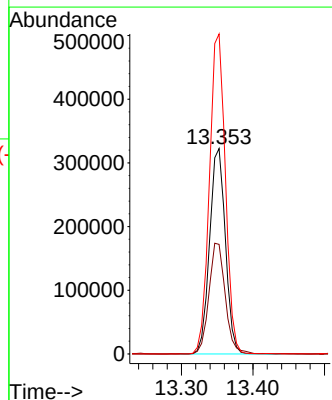
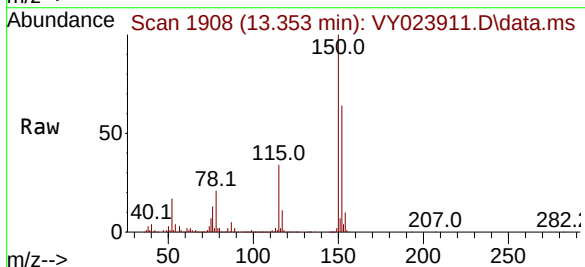
Tgt Ion:152 Resp: 495420

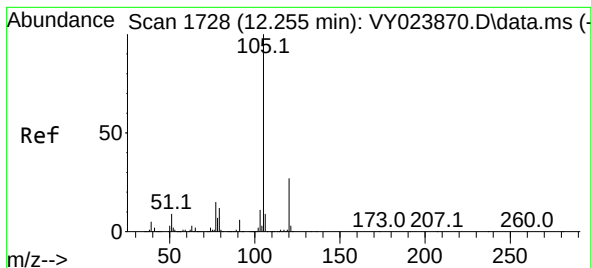
Ion Ratio Lower Upper

152 100

115 55.9 28.8 86.4

150 157.0 0.0 352.2





#73

Isopropylbenzene

Concen: 2.293 ug/l

RT: 12.255 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

Instrument :

MSVOA_Y

ClientSampleId :

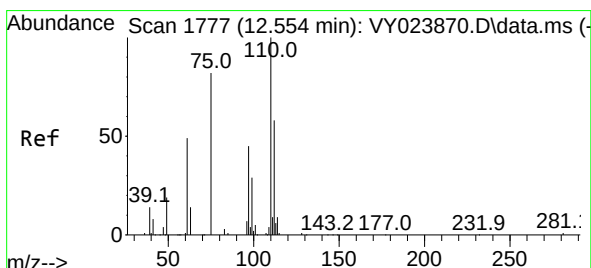
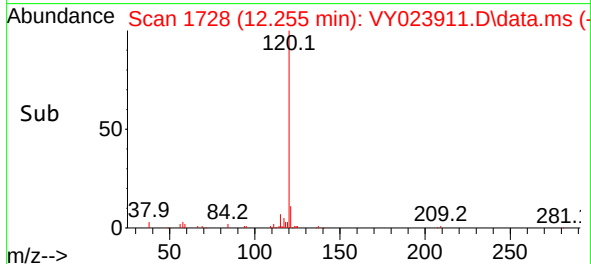
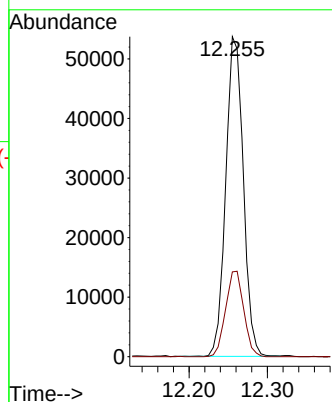
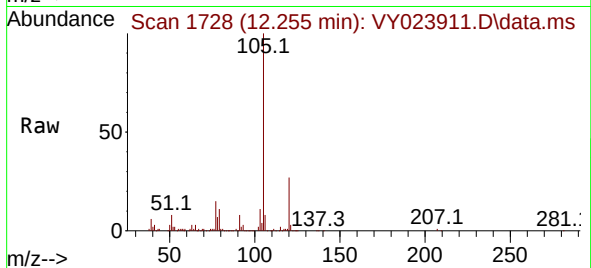
B-3

Tgt Ion:105 Resp: 83687

Ion Ratio Lower Upper

105 100

120 27.6 13.4 40.1



#76

1,2,3-Trichloropropane

Concen: 2.091 ug/l

RT: 12.664 min Scan# 1795

Delta R.T. 0.110 min

Lab File: VY023911.D

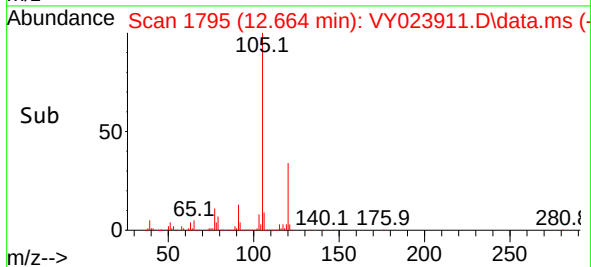
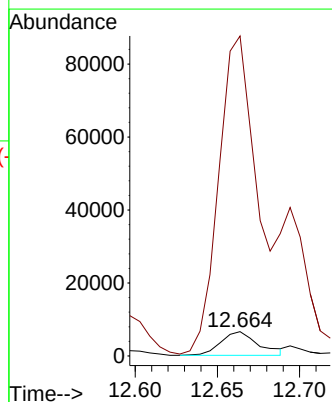
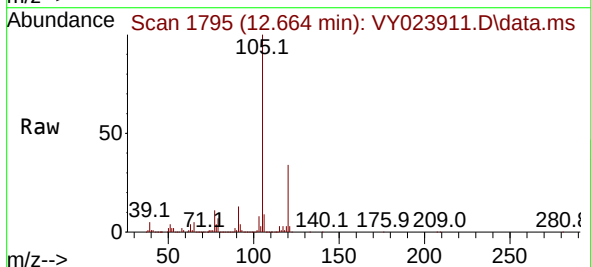
Acq: 09 Dec 2025 16:17

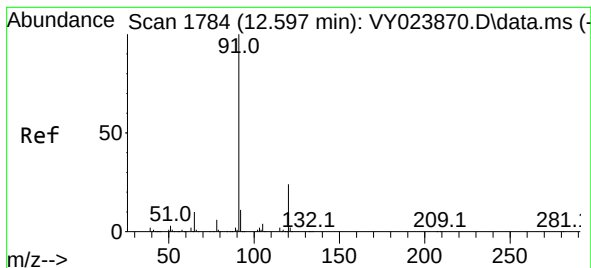
Tgt Ion: 75 Resp: 10270

Ion Ratio Lower Upper

75 100

77 1349.7 0.0 0.0#





#78

n-propylbenzene

Concen: 9.054 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VY023911.D

Acq: 09 Dec 2025 16:17

Instrument :

MSVOA_Y

ClientSampleId :

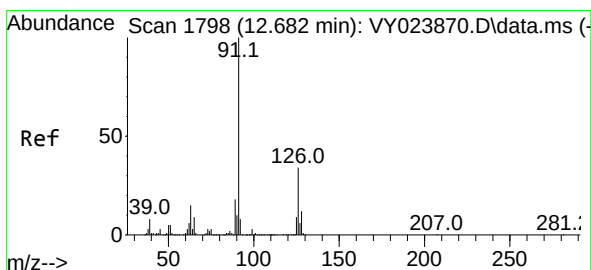
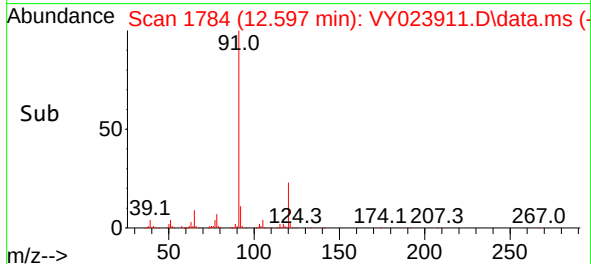
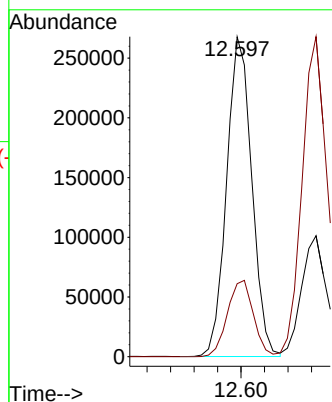
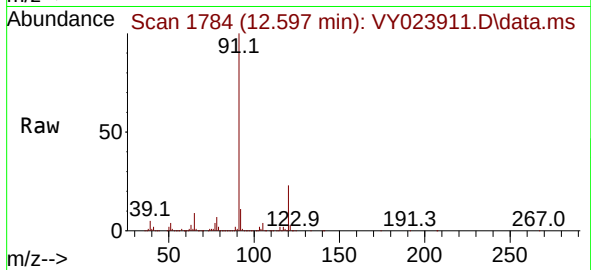
B-3

Tgt Ion: 91 Resp: 398765

Ion Ratio Lower Upper

91 100

120 24.6 11.5 34.5



#79

2-Chlorotoluene

Concen: 5.809 ug/l

RT: 12.664 min Scan# 1795

Delta R.T. -0.018 min

Lab File: VY023911.D

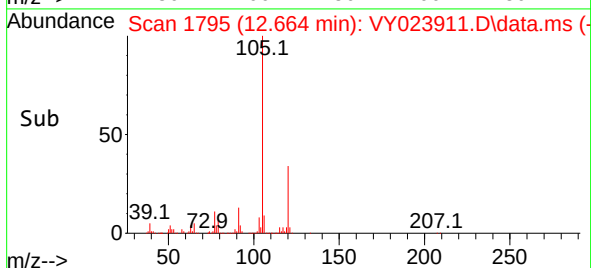
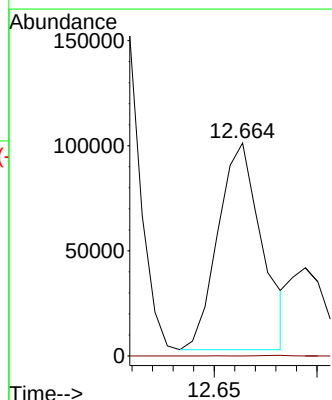
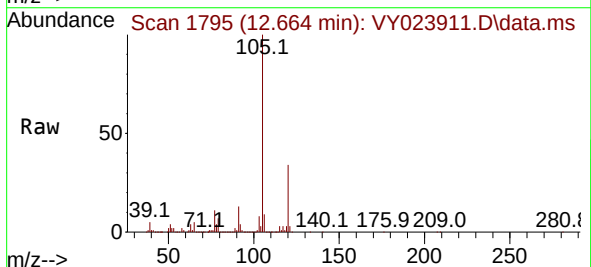
Acq: 09 Dec 2025 16:17

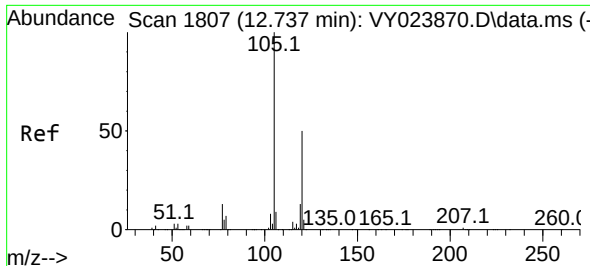
Tgt Ion: 91 Resp: 145302

Ion Ratio Lower Upper

91 100

126 0.0 17.0 51.0#

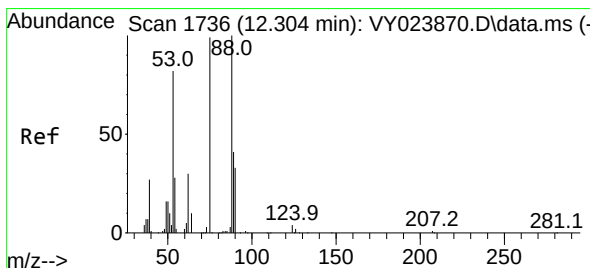
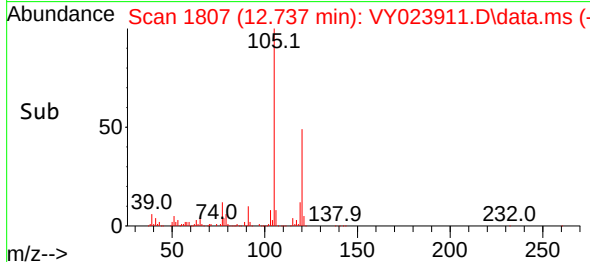
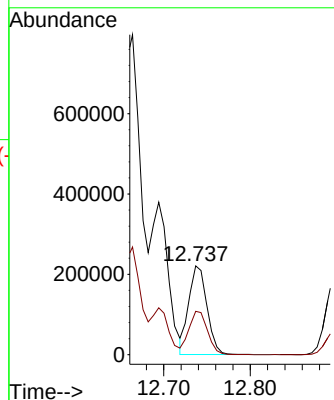
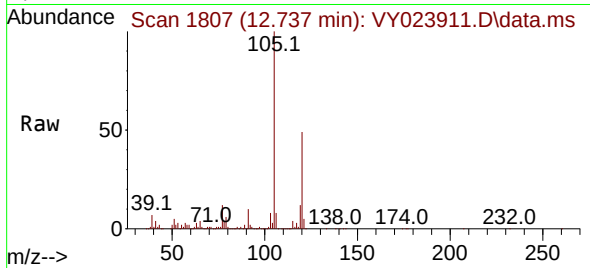




#80
 1,3,5-Trimethylbenzene
 Concen: 10.861 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY023911.D
 Acq: 09 Dec 2025 16:17

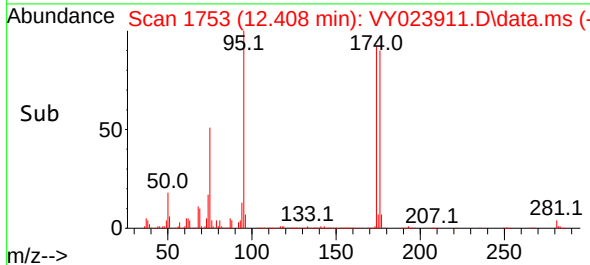
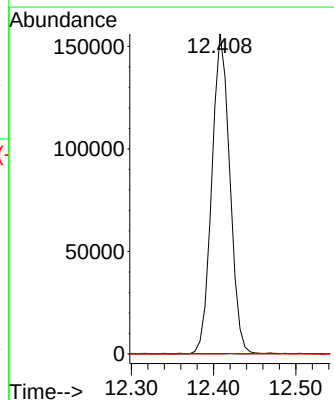
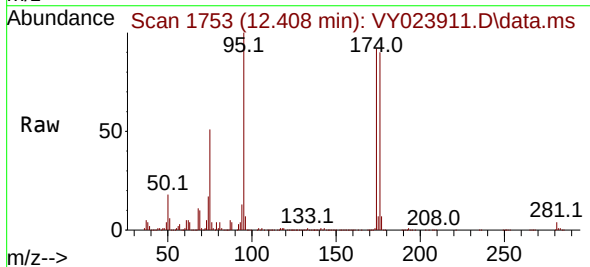
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-3

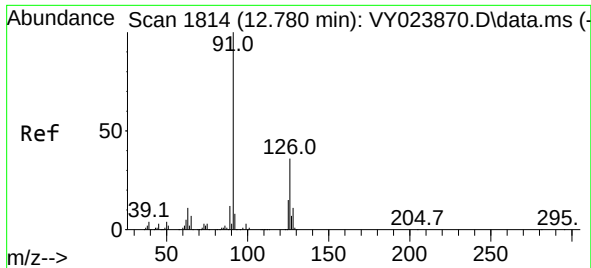
Tgt Ion:105 Resp: 322118
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.025 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY023911.D
 Acq: 09 Dec 2025 16:17

Tgt Ion: 75 Resp: 237925
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.1 106.7#
 89 0.0 36.3 54.5#

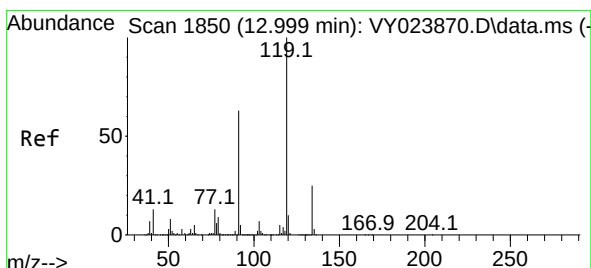
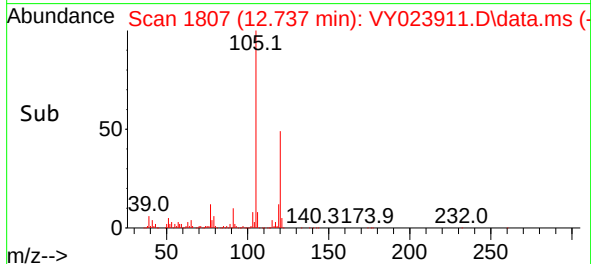
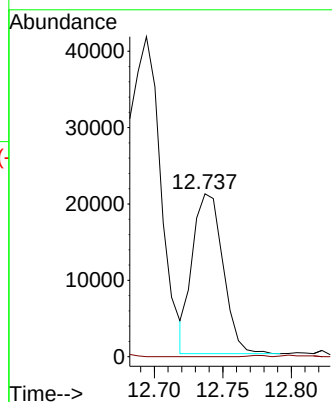
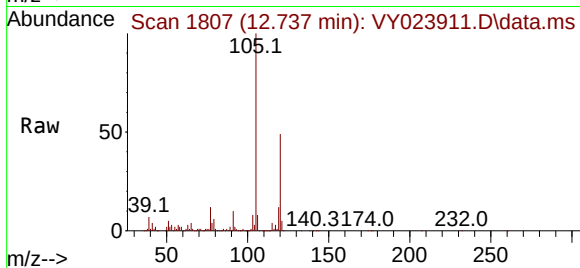




#82
4-Chlorotoluene
Concen: 1.250 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.043 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

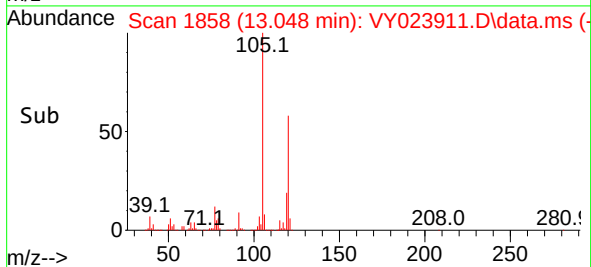
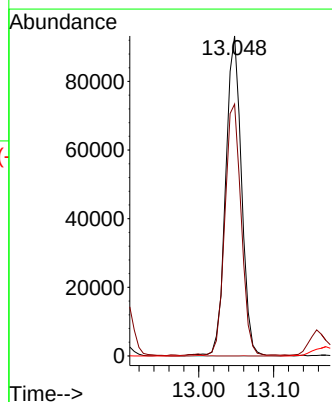
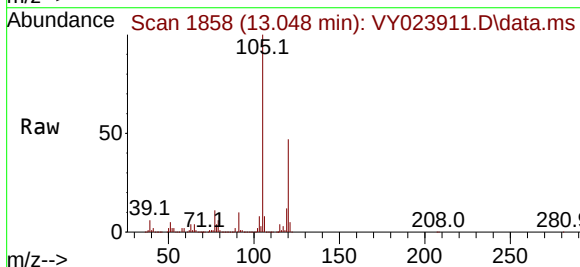
Instrument :
MSVOA_Y
ClientSampleId :
B-3

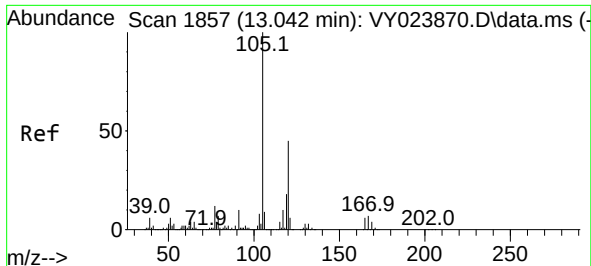
Tgt Ion: 91 Resp: 32415
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#



#83
tert-Butylbenzene
Concen: 5.145 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.049 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion: 119 Resp: 137570
Ion Ratio Lower Upper
119 100
91 81.0 31.8 95.3
134 0.0 12.9 38.7#

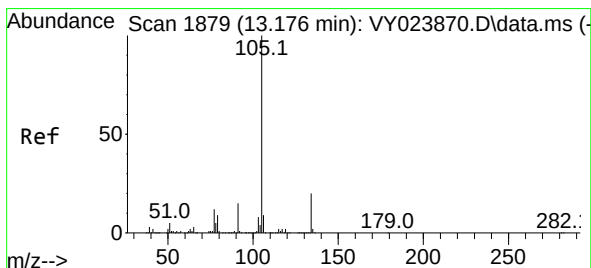
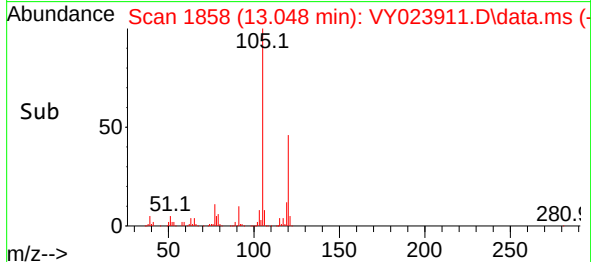
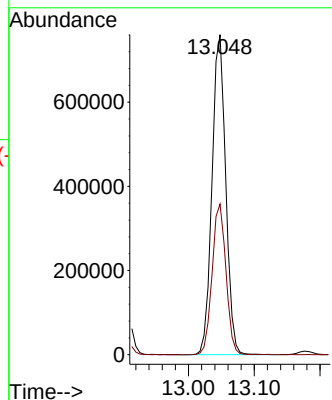
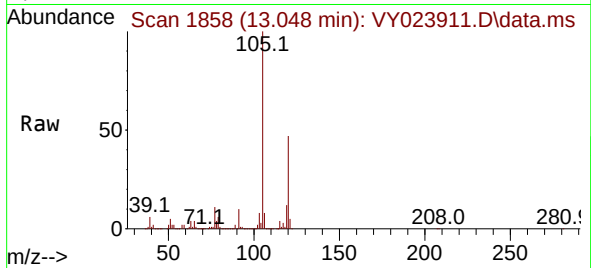




#84
1,2,4-Trimethylbenzene
Concen: 37.516 ug/l
RT: 13.048 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

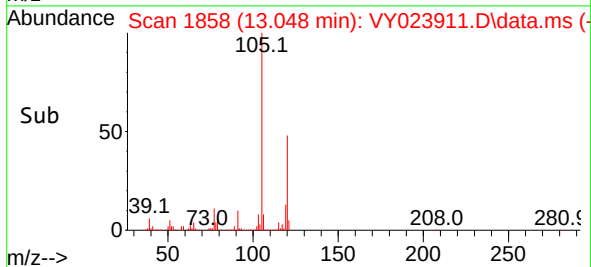
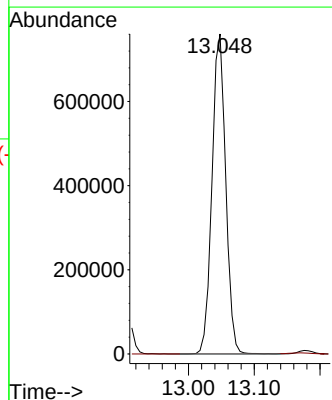
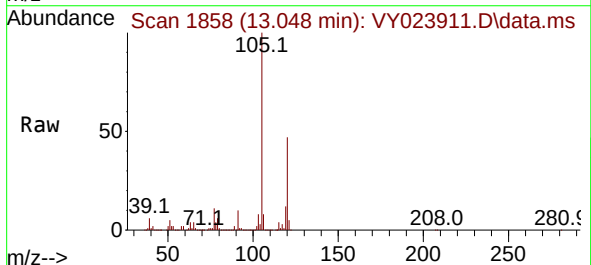
Instrument :
MSVOA_Y
ClientSampleId :
B-3

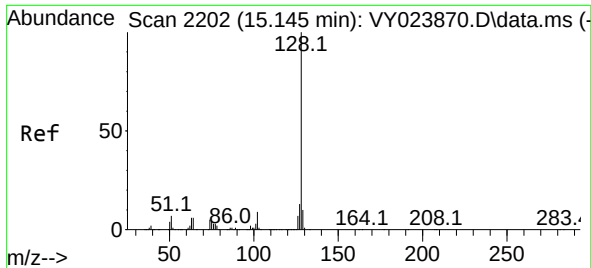
Tgt Ion:105 Resp: 1102291
Ion Ratio Lower Upper
105 100
120 47.6 22.4 67.3



#85
sec-Butylbenzene
Concen: 27.714 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.128 min
Lab File: VY023911.D
Acq: 09 Dec 2025 16:17

Tgt Ion:105 Resp: 1102291
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.3#





#95

Naphthalene

Concen: 1.439 ug/l

RT: 15.151 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY023911.D

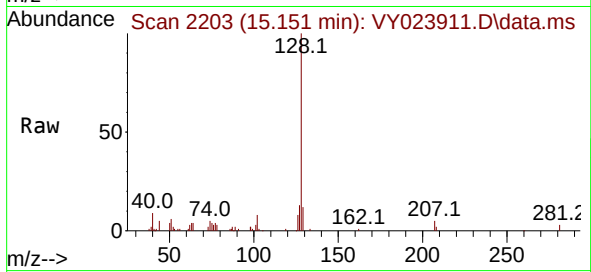
Acq: 09 Dec 2025 16:17

Instrument :

MSVOA_Y

ClientSampleId :

B-3



Tgt Ion:128 Resp: 20887

Ion Ratio Lower Upper

128 100

127 13.4 10.3 15.5

129 11.9 8.7 13.1

