

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023910.D
 Acq On : 09 Dec 2025 15:53
 Operator : SY/MD
 Sample : Q3809-06
 Misc : 3.56g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-2

Quant Time: Dec 10 02:29:45 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)

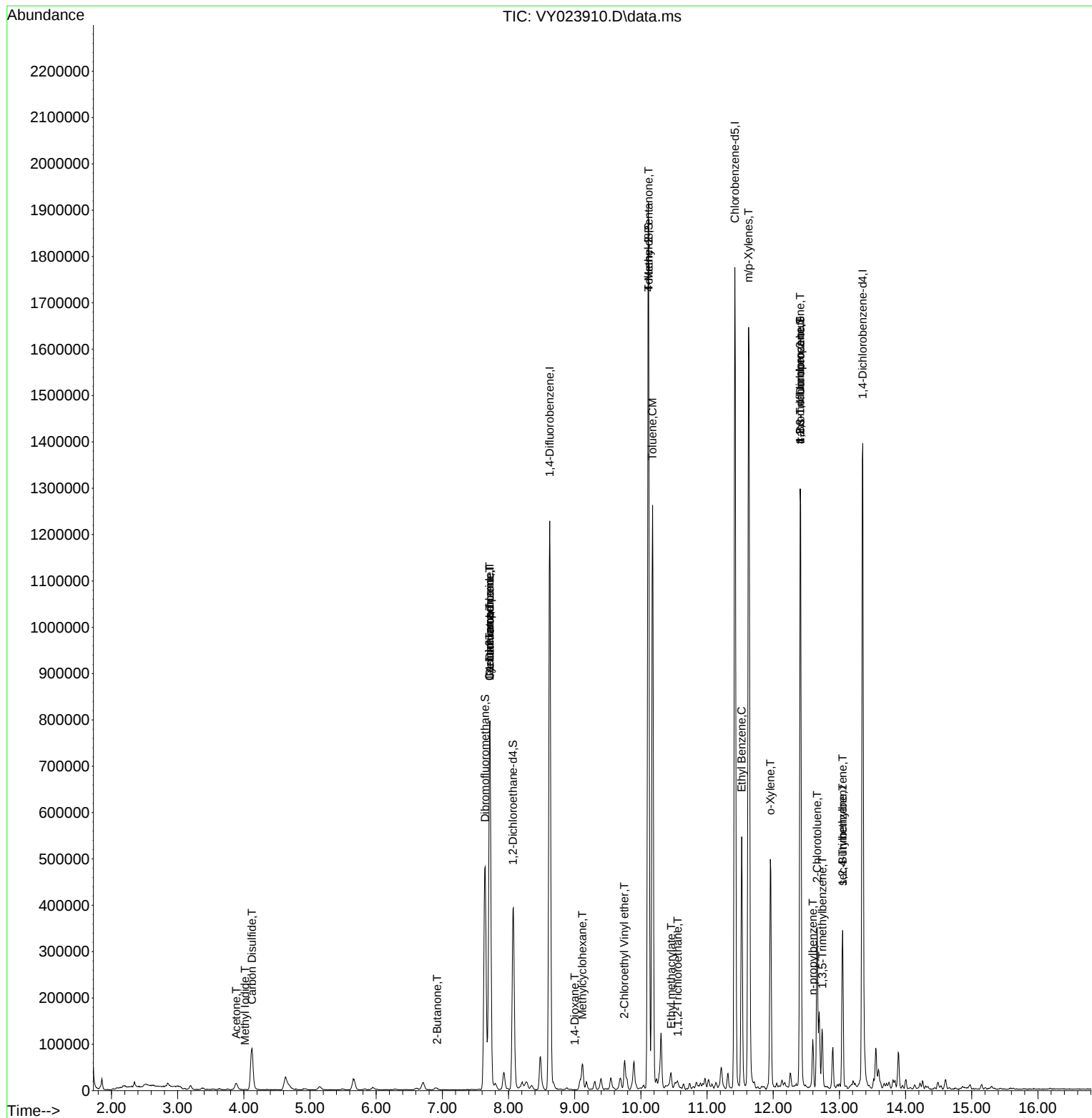
Internal Standards						
1) Pentafluorobenzene	7.719	168	660442	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1118720	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	968215	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	396624	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	311745	47.185	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.380%
35) Dibromofluoromethane	7.646	113	348014	48.503	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.000%
50) Toluene-d8	10.115	98	1285146	46.027	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.060%
62) 4-Bromofluorobenzene	12.408	95	380097	39.912	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	79.820%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.019	142	454	2.498	ug/l #	64
11) Tert butyl alcohol	4.885	59	83	Below Cal	#	74
16) Acetone	3.885	43	24488	12.369	ug/l	91
17) Carbon Disulfide	4.122	76	188200	10.011	ug/l	99
25) 2-Butanone	6.921	43	2392	1.002	ug/l #	67
31) Cyclohexane	7.713	56	20892	1.688	ug/l #	27
36) 1,1-Dichloropropene	7.713	75	43451	4.107	ug/l #	50
38) Carbon Tetrachloride	7.713	117	59918	5.131	ug/l #	16
39) Methylcyclohexane	9.116	83	20820	1.512	ug/l #	90
49) 1,4-Dioxane	9.000	88	63	1.382	ug/l #	25
51) 4-Methyl-2-Pentanone	10.115	43	5676	1.181	ug/l #	1
52) Toluene	10.176	92	539168	26.923	ug/l	99
55) 1,1,2-Trichloroethane	10.554	97	6061	1.095	ug/l #	22
56) Ethyl methacrylate	10.457	69	3447	4.542	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.750	63	159	14.760	ug/l #	47
67) Ethyl Benzene	11.524	91	366959	9.605	ug/l	100
68) m/p-Xylenes	11.627	106	520599	35.651	ug/l	95
69) o-Xylene	11.956	106	136799	10.016	ug/l	96
76) 1,2,3-Trichloropropane	12.408	75	188834	48.025	ug/l #	100
78) n-propylbenzene	12.597	91	76042	2.156	ug/l	96
79) 2-Chlorotoluene	12.664	91	24792	1.238	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.743	105	56820	2.393	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.408	75	188834	115.024	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.048	105	183311	7.793	ug/l	96
85) sec-Butylbenzene	13.048	105	183311	5.757	ug/l #	56

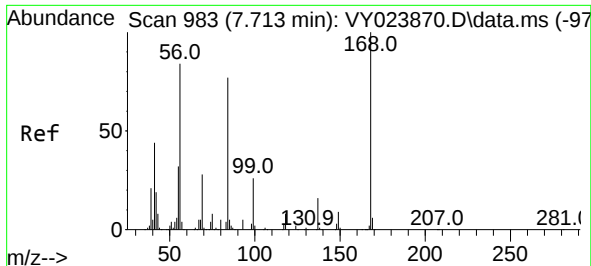
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 02:29:45 2025
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Quant Title : SW846 8260
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Response via : Initial Calibration

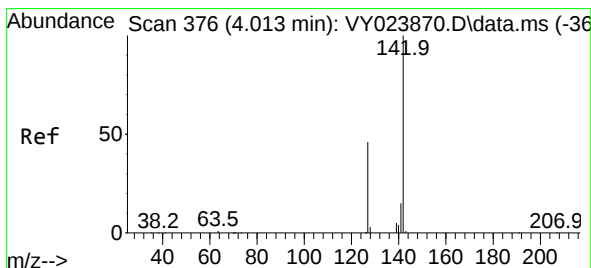
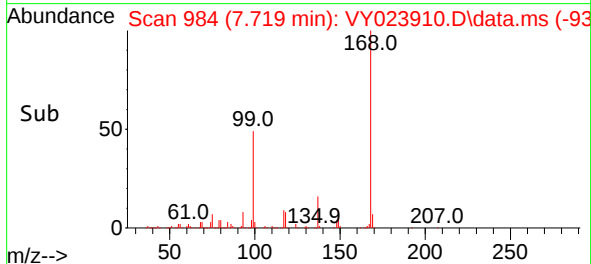
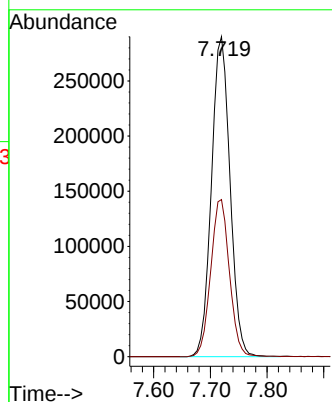
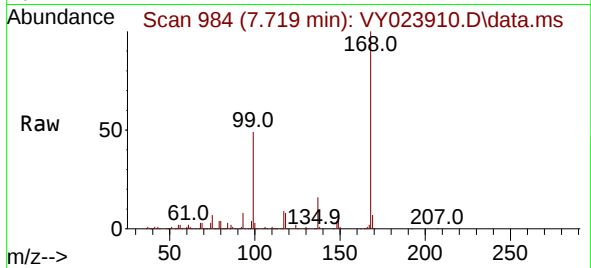




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

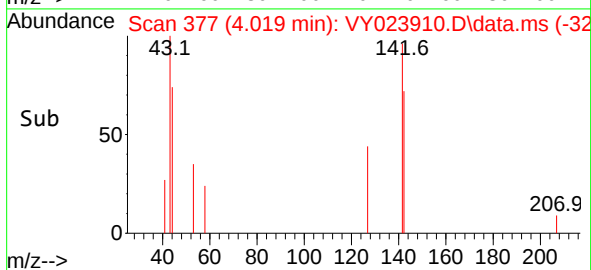
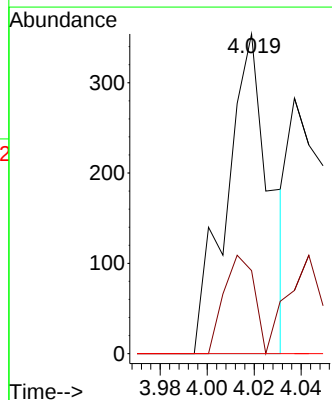
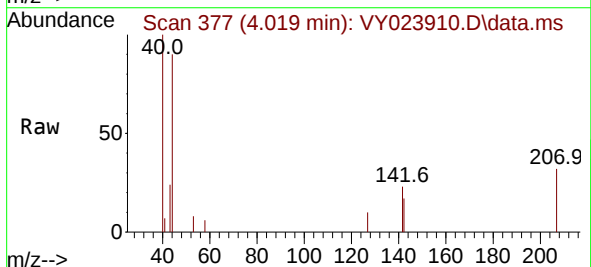
Instrument :
MSVOA_Y
ClientSampleId :
B-2

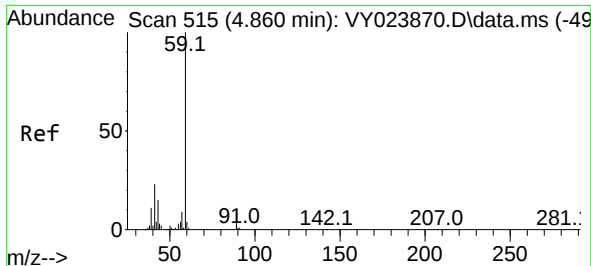
Tgt Ion:168 Resp: 660442
Ion Ratio Lower Upper
168 100
99 49.1 42.5 63.7



#10
Methyl Iodide
Concen: 2.498 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.006 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion:142 Resp: 454
Ion Ratio Lower Upper
142 100
127 21.6 36.1 54.1#
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.885 min Scan# 515

Delta R.T. 0.024 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

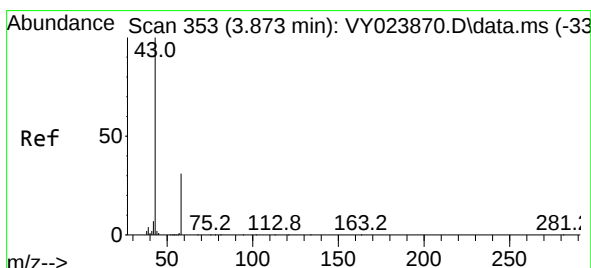
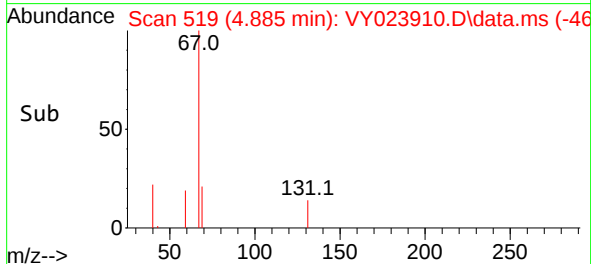
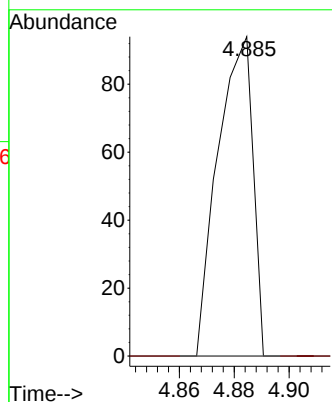
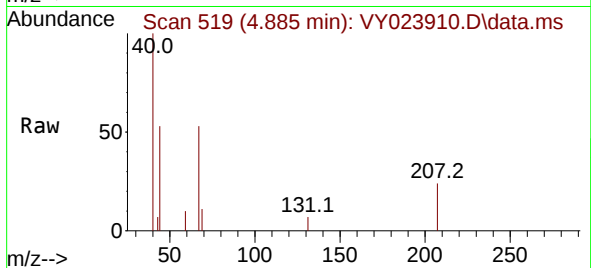
B-2

Tgt Ion: 59 Resp: 83

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#16

Acetone

Concen: 12.369 ug/l

RT: 3.885 min Scan# 355

Delta R.T. 0.012 min

Lab File: VY023910.D

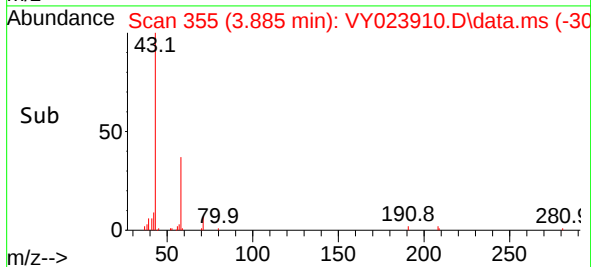
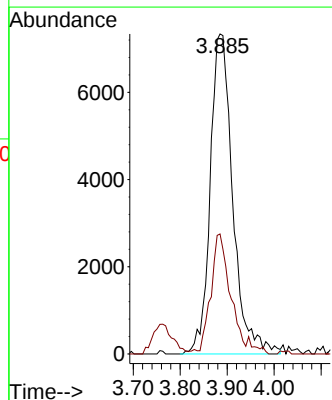
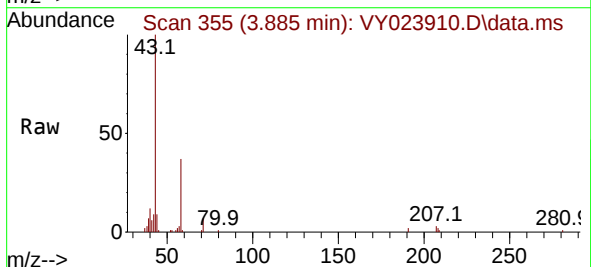
Acq: 09 Dec 2025 15:53

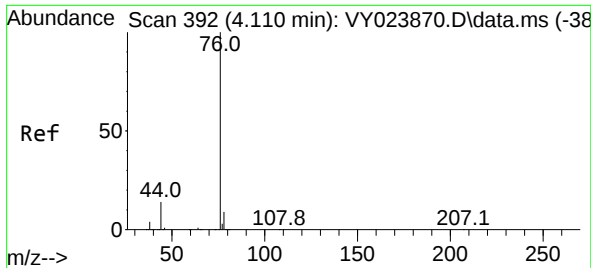
Tgt Ion: 43 Resp: 24488

Ion Ratio Lower Upper

43 100

58 36.5 25.1 37.7

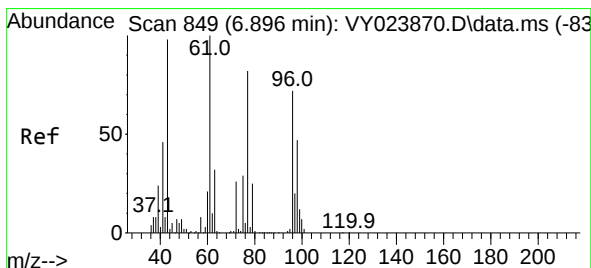
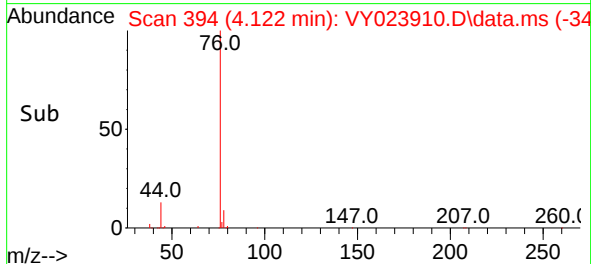
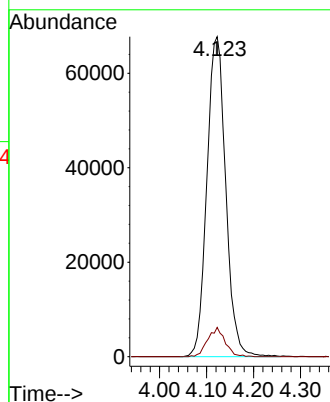
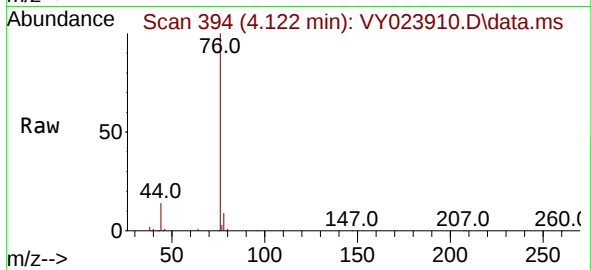




#17
Carbon Disulfide
Concen: 10.011 ug/l
RT: 4.122 min Scan# 394
Delta R.T. 0.012 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

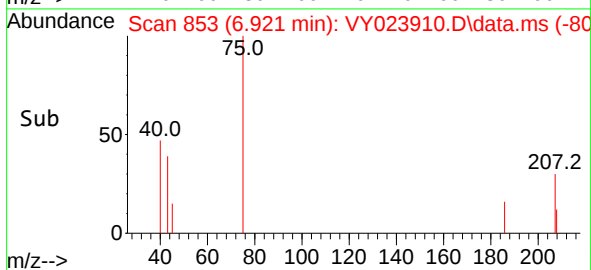
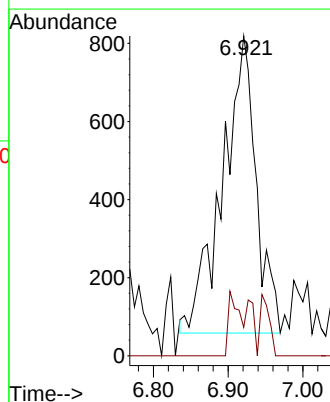
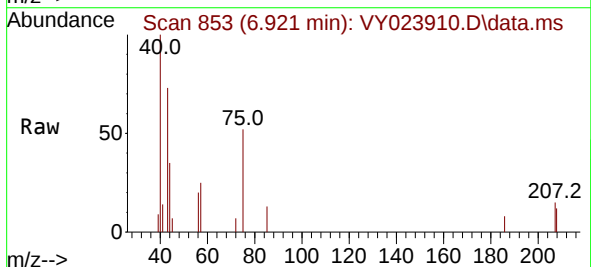
Instrument :
MSVOA_Y
ClientSampleId :
B-2

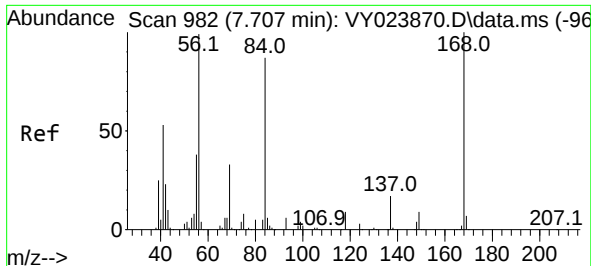
Tgt Ion: 76 Resp: 188200
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7



#25
2-Butanone
Concen: 1.002 ug/l
RT: 6.921 min Scan# 853
Delta R.T. 0.024 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 43 Resp: 2392
Ion Ratio Lower Upper
43 100
72 9.6 21.0 31.6

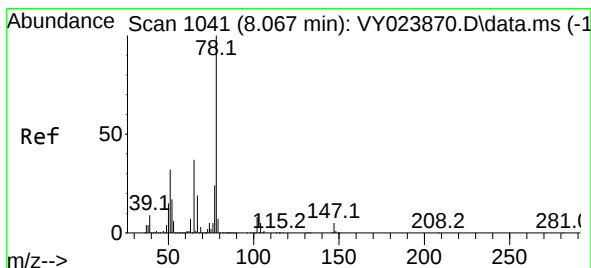
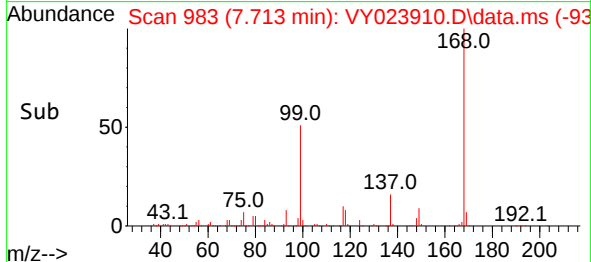
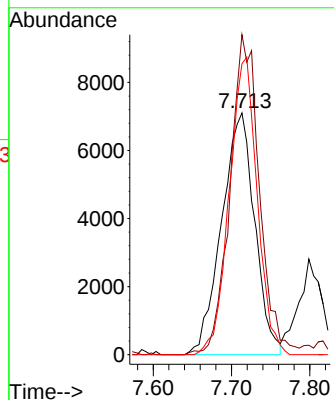
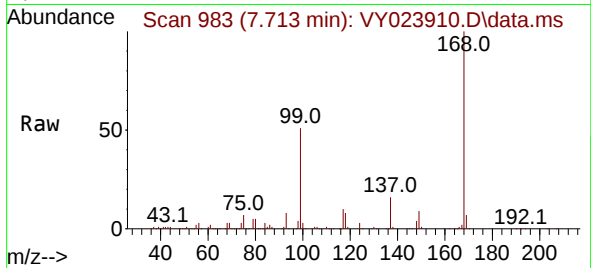




#31
Cyclohexane
Concen: 1.688 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

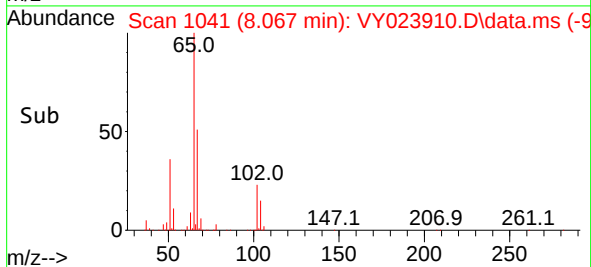
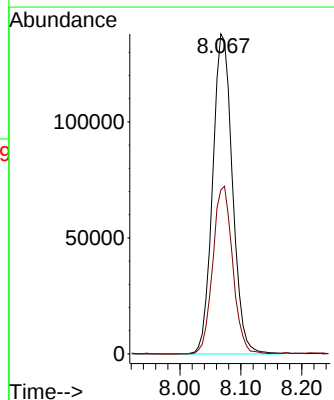
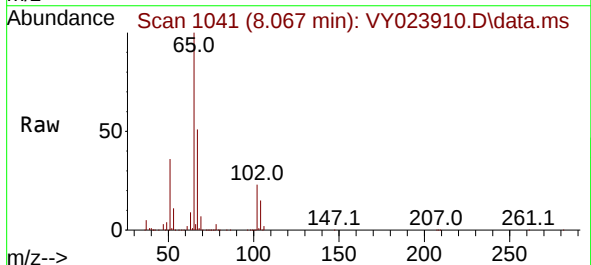
Instrument :
MSVOA_Y
ClientSampleId :
B-2

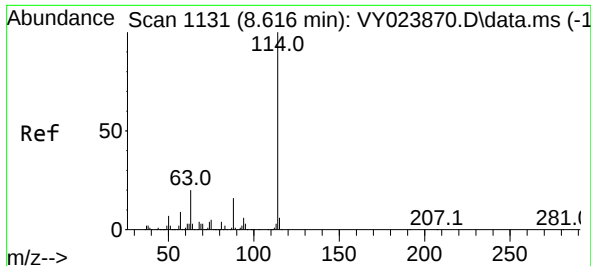
Tgt Ion: 56 Resp: 20892
Ion Ratio Lower Upper
56 100
69 132.3 26.8 40.2#
84 120.3 70.4 105.6#



#33
1,2-Dichloroethane-d4
Concen: 47.185 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 65 Resp: 311745
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: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

B-2

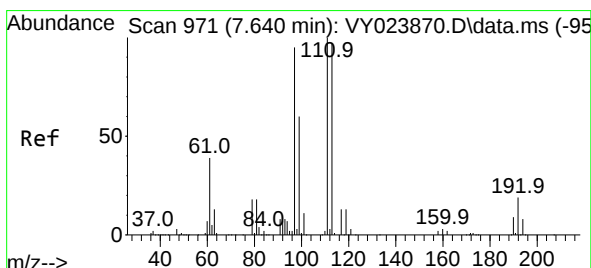
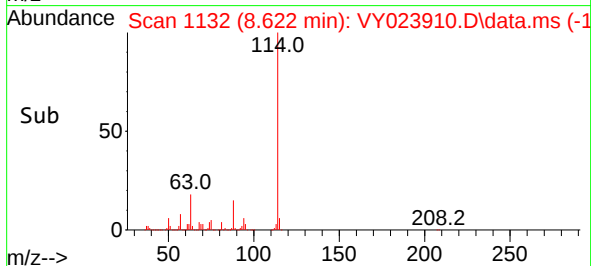
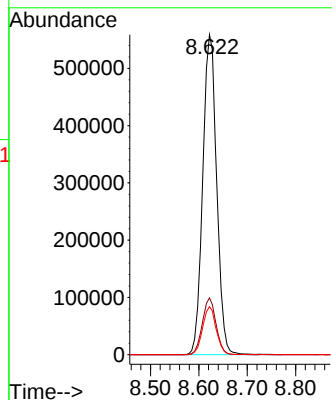
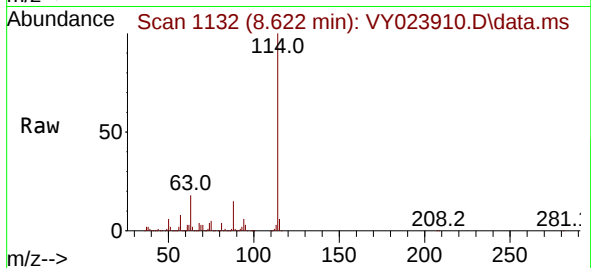
Tgt Ion:114 Resp: 1118720

Ion Ratio Lower Upper

114 100

63 17.7 0.0 39.2

88 15.0 0.0 31.4



#35

Dibromofluoromethane

Concen: 48.503 ug/l

RT: 7.646 min Scan# 972

Delta R.T. 0.006 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

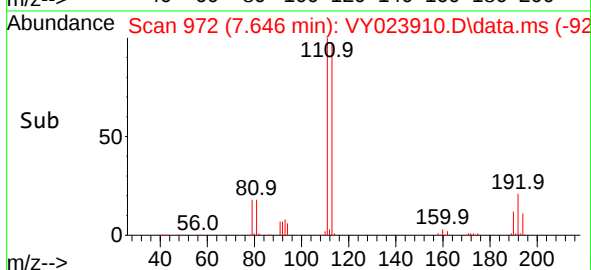
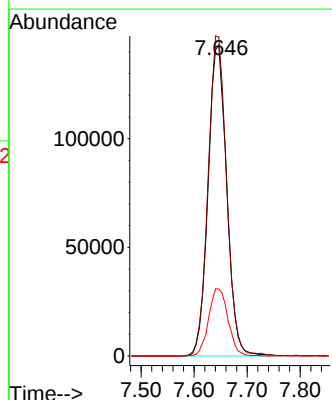
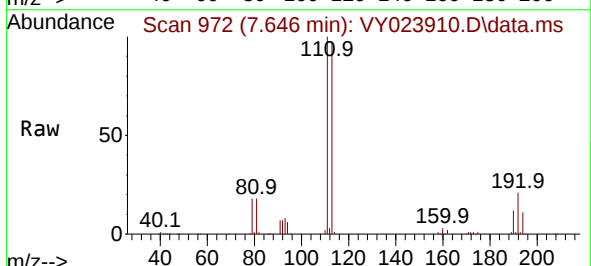
Tgt Ion:113 Resp: 348014

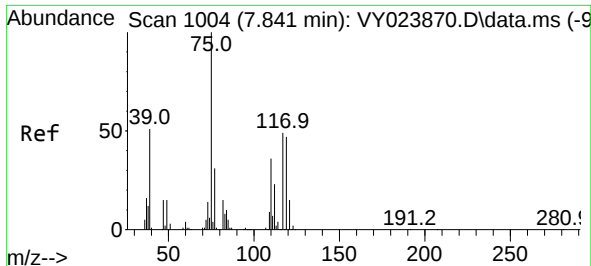
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

192 22.6 15.8 23.8





#36

1,1-Dichloropropene

Concen: 4.107 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

B-2

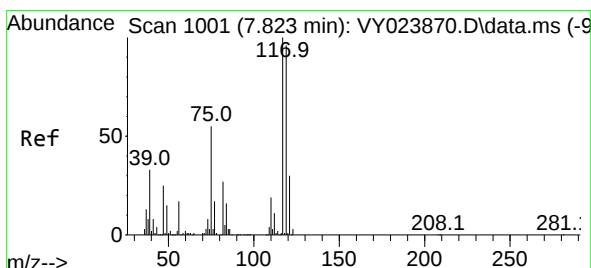
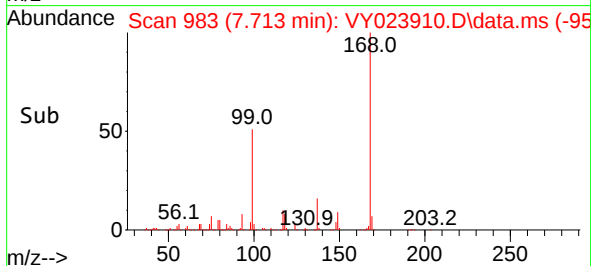
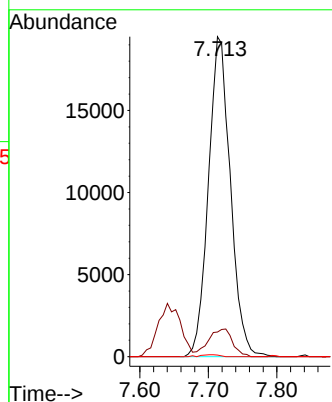
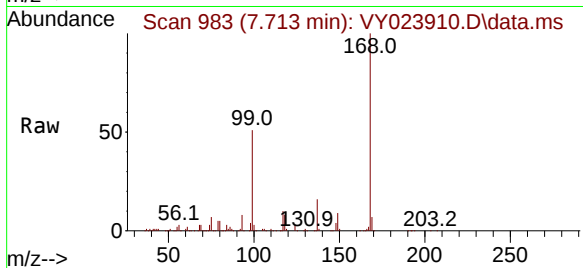
Tgt Ion: 75 Resp: 43451

Ion Ratio Lower Upper

75 100

110 9.4 17.6 52.9#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.131 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.110 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

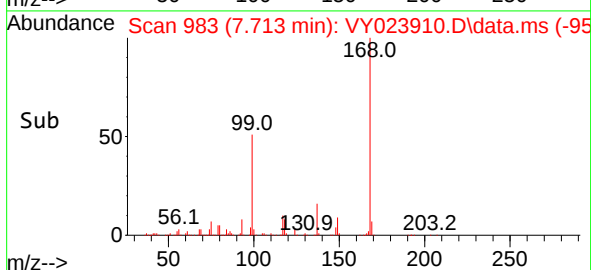
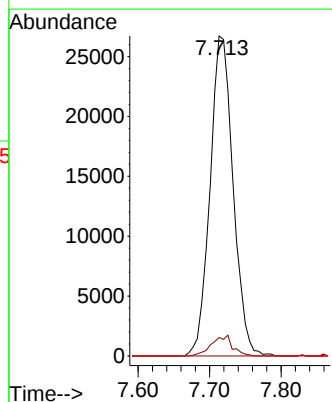
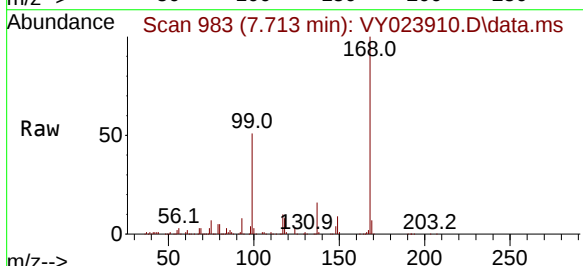
Tgt Ion: 117 Resp: 59918

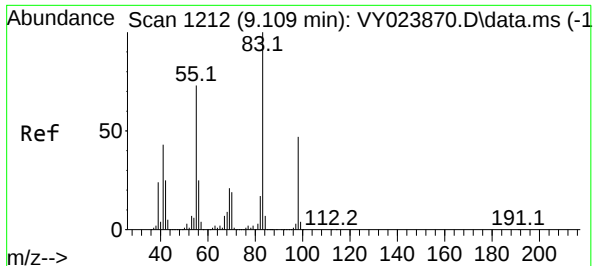
Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.6#

121 0.0 23.9 35.9#





#39

Methylcyclohexane

Concen: 1.512 ug/l

RT: 9.116 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

B-2

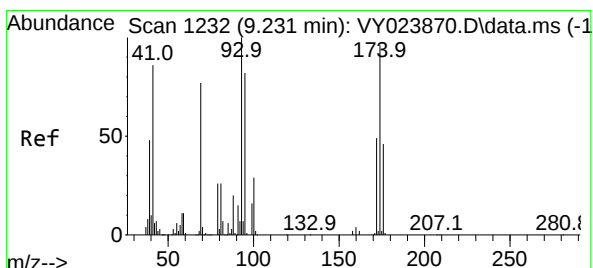
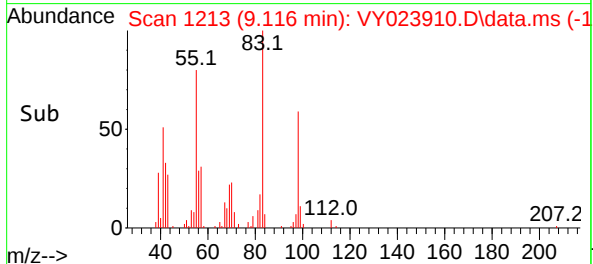
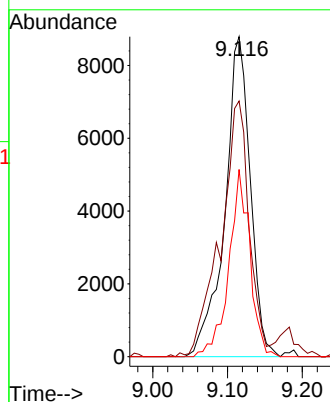
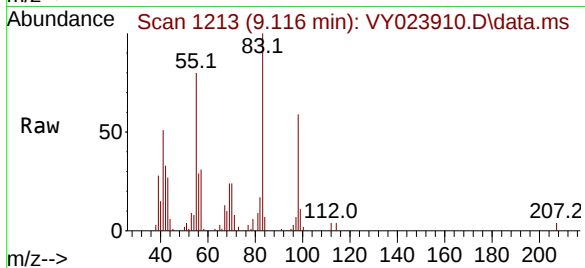
Tgt Ion: 83 Resp: 20820

Ion Ratio Lower Upper

83 100

55 78.7 58.8 88.2

98 58.5 37.8 56.6#



#49

1,4-Dioxane

Concen: 1.382 ug/l

RT: 9.000 min Scan# 1194

Delta R.T. -0.232 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

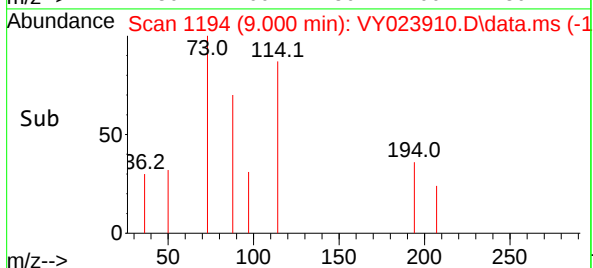
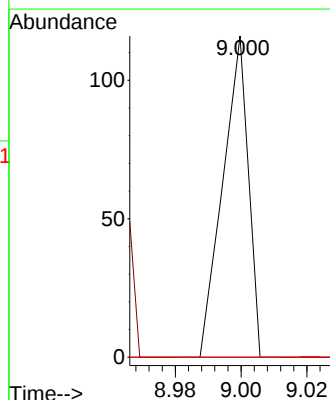
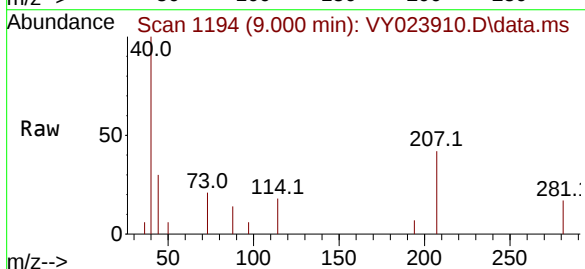
Tgt Ion: 88 Resp: 63

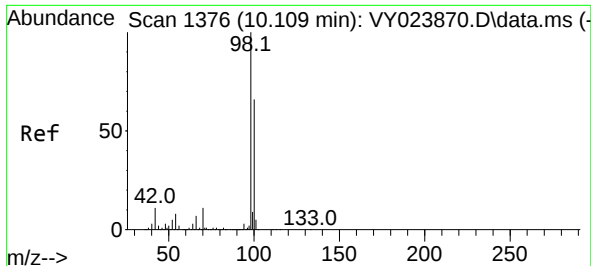
Ion Ratio Lower Upper

88 100

43 0.0 26.8 40.2#

58 0.0 52.4 78.6#

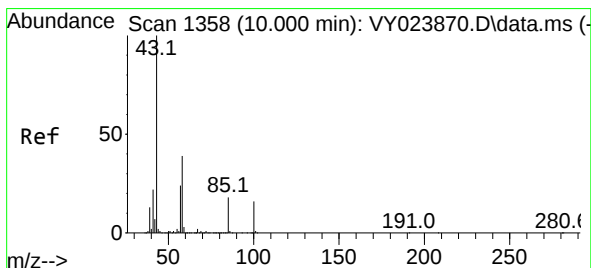
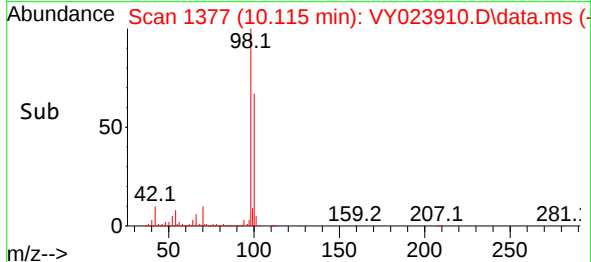
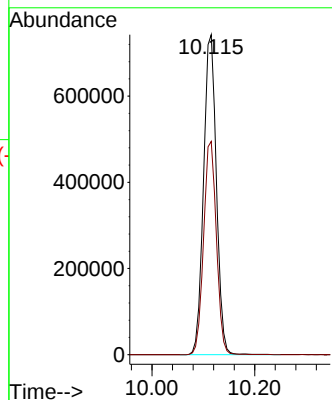
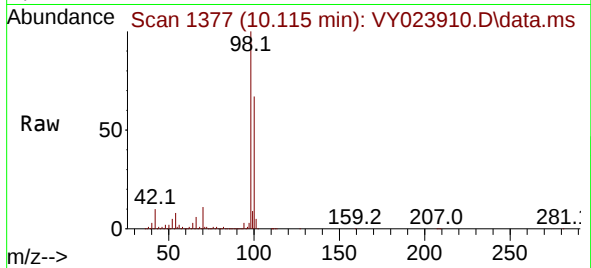




#50
Toluene-d8
Concen: 46.027 ug/l
RT: 10.115 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

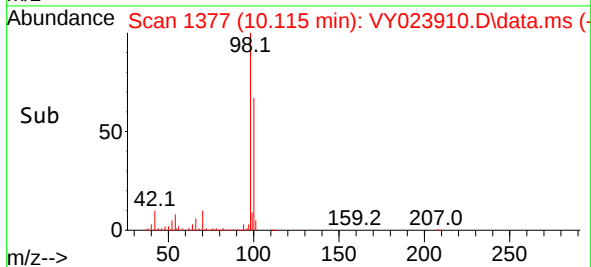
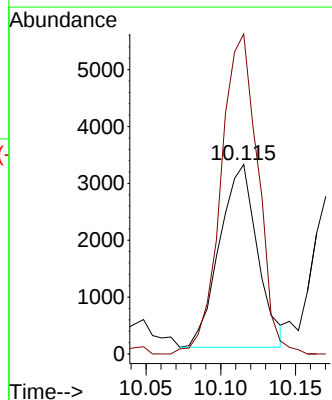
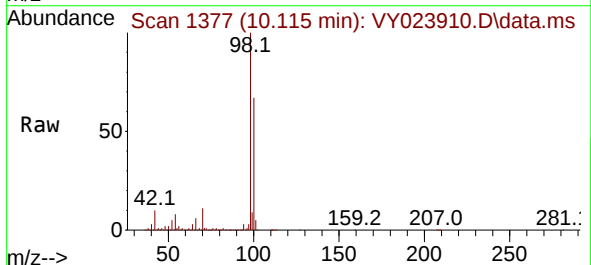
Instrument :
MSVOA_Y
ClientSampleId :
B-2

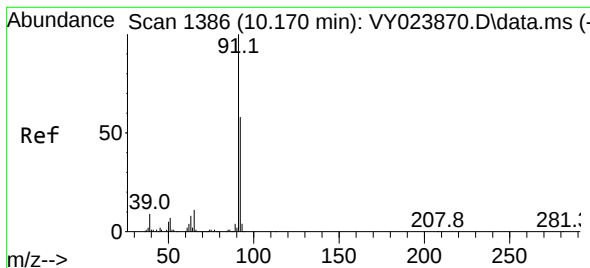
Tgt Ion: 98 Resp: 1285146
Ion Ratio Lower Upper
98 100
100 66.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.181 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.116 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 43 Resp: 5676
Ion Ratio Lower Upper
43 100
58 170.8 31.8 47.8#





#52

Toluene

Concen: 26.923 ug/l

RT: 10.176 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

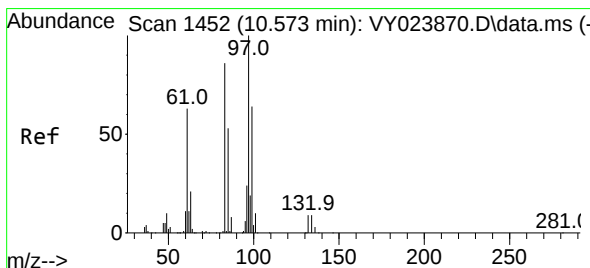
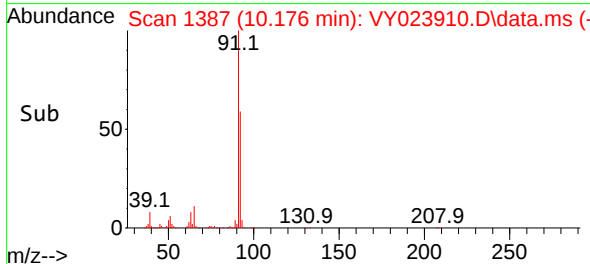
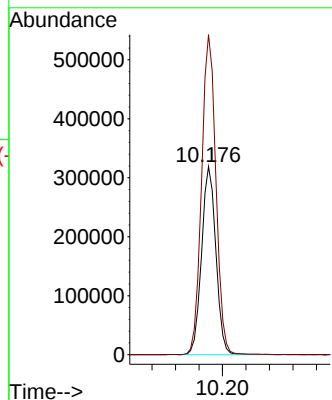
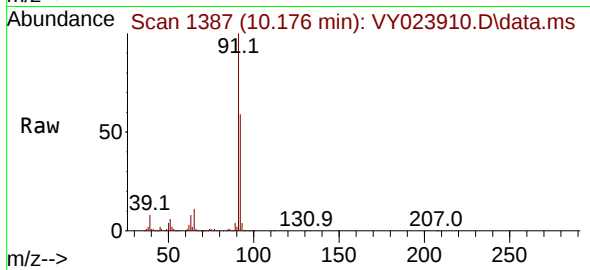
B-2

Tgt Ion: 92 Resp: 539168

Ion Ratio Lower Upper

92 100

91 170.6 137.3 205.9



#55

1,1,2-Trichloroethane

Concen: 1.095 ug/l

RT: 10.554 min Scan# 1449

Delta R.T. -0.018 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Tgt Ion: 97 Resp: 6061

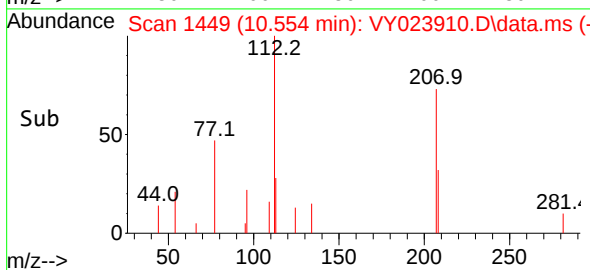
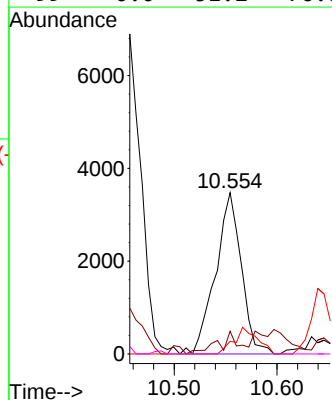
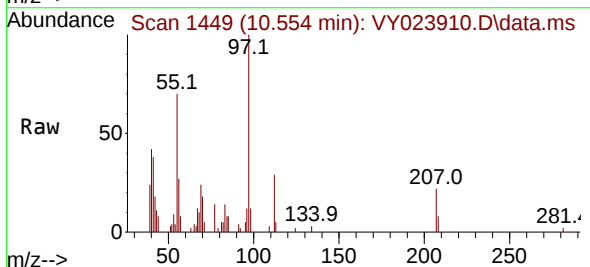
Ion Ratio Lower Upper

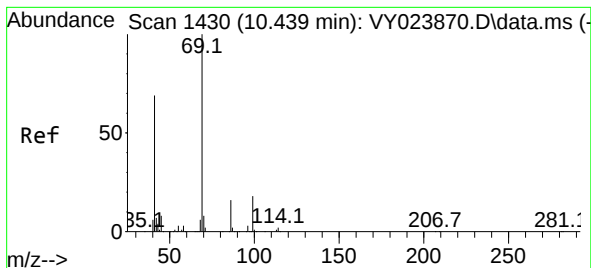
97 100

83 9.6 69.0 103.4#

85 7.8 42.6 63.8#

99 0.0 51.2 76.8#

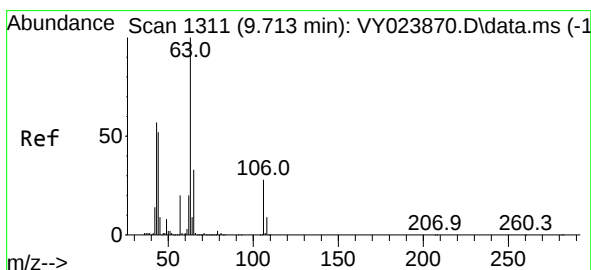
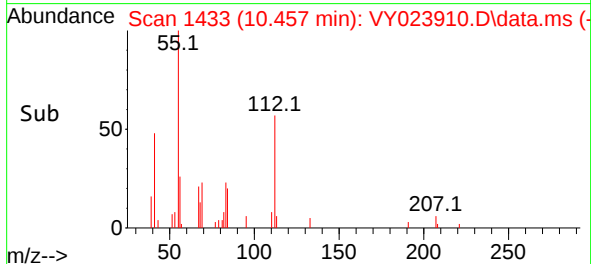
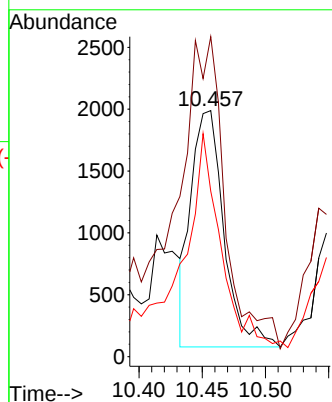
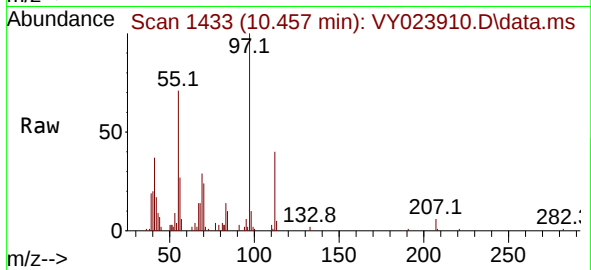




#56
Ethyl methacrylate
Concen: 4.542 ug/l
RT: 10.457 min Scan# 1433
Delta R.T. 0.018 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

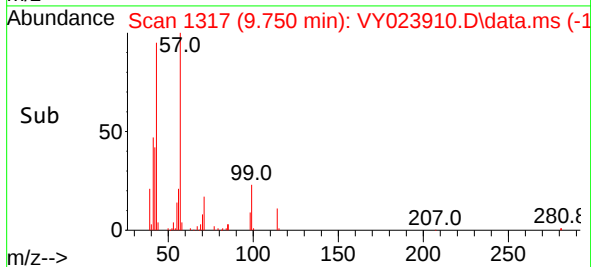
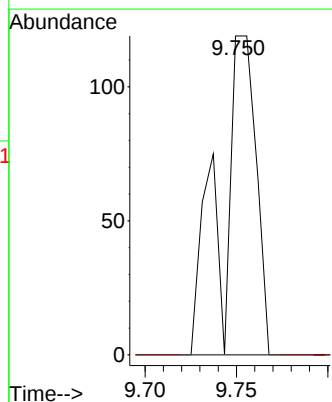
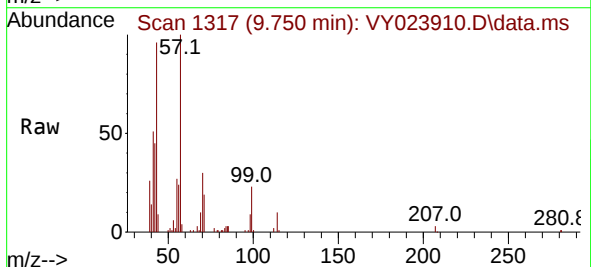
Instrument :
MSVOA_Y
ClientSampleId :
B-2

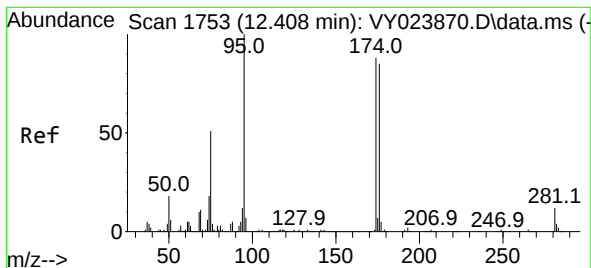
Tgt Ion: 69 Resp: 3447
Ion Ratio Lower Upper
69 100
41 192.1 52.5 78.7#
39 107.3 27.1 40.7#



#58
2-Chloroethyl Vinyl ether
Concen: 14.760 ug/l
RT: 9.750 min Scan# 1317
Delta R.T. 0.037 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 63 Resp: 159
Ion Ratio Lower Upper
63 100
106 0.0 22.5 33.7#

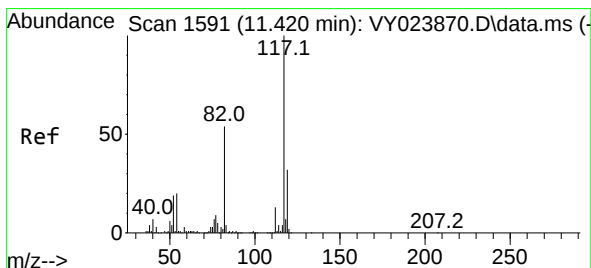
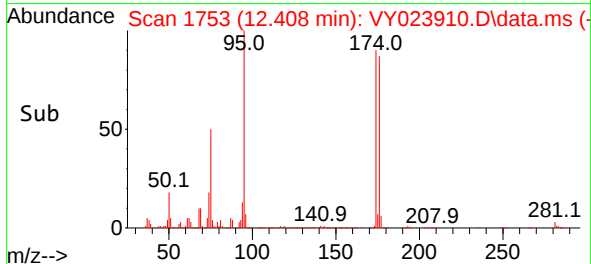
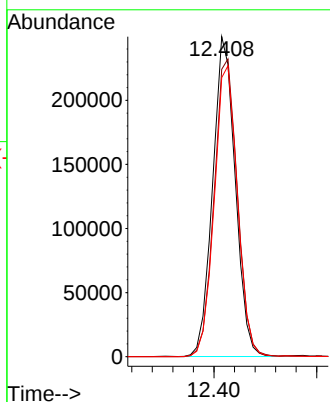
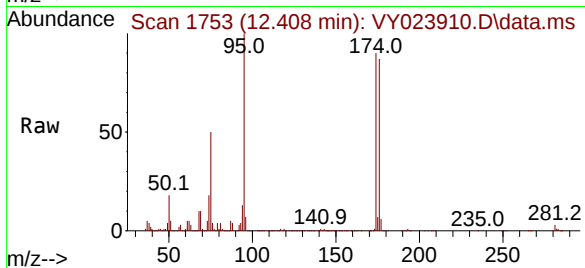




#62
4-Bromofluorobenzene
Concen: 39.912 ug/l
RT: 12.408 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

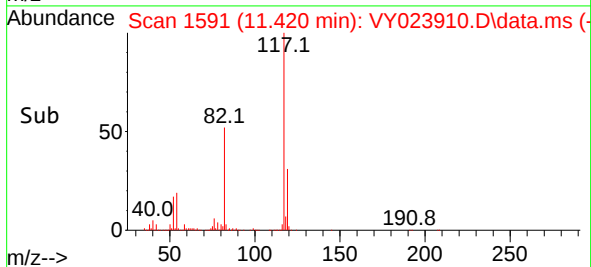
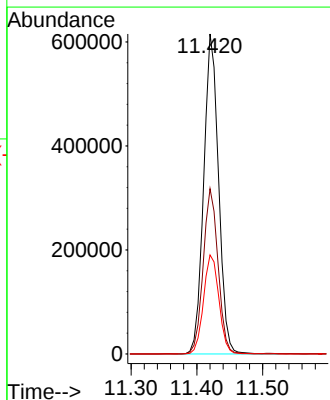
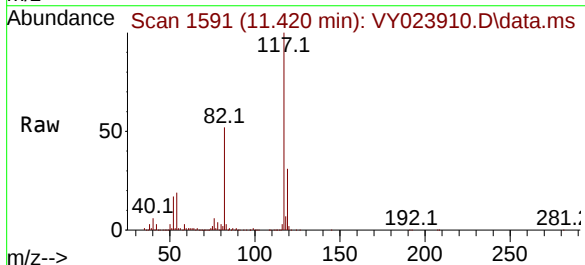
Instrument :
MSVOA_Y
ClientSampleId :
B-2

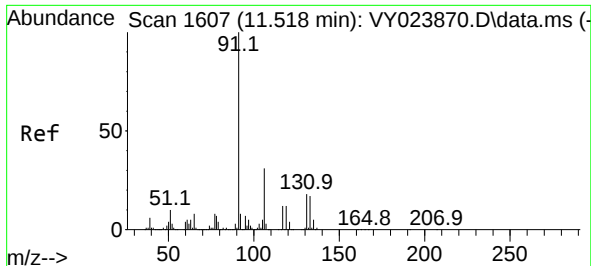
Tgt Ion: 95 Resp: 380097
Ion Ratio Lower Upper
95 100
174 96.4 0.0 169.6
176 93.3 0.0 164.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 117 Resp: 968215
Ion Ratio Lower Upper
117 100
82 51.6 43.1 64.7
119 30.9 26.0 39.0





#67

Ethyl Benzene

Concen: 9.605 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.006 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

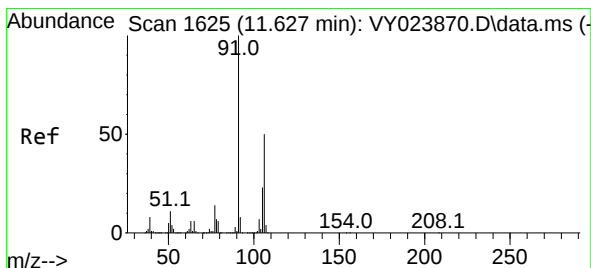
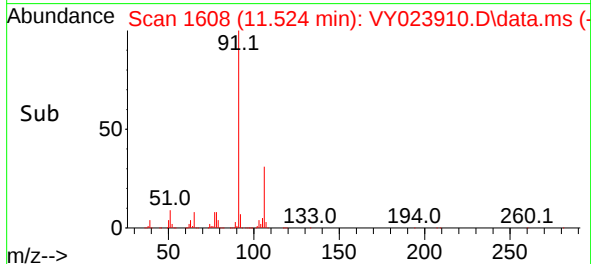
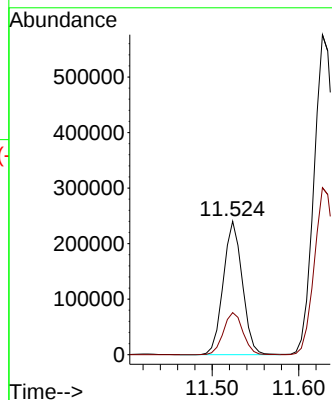
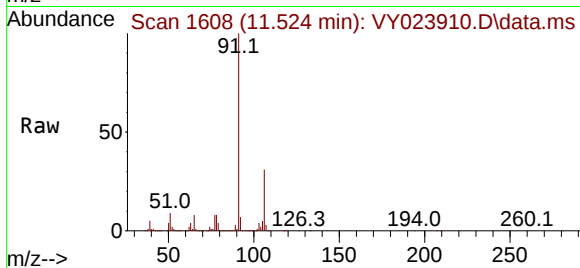
B-2

Tgt Ion: 91 Resp: 366959

Ion Ratio Lower Upper

91 100

106 31.5 25.0 37.6



#68

m/p-Xylenes

Concen: 35.651 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.000 min

Lab File: VY023910.D

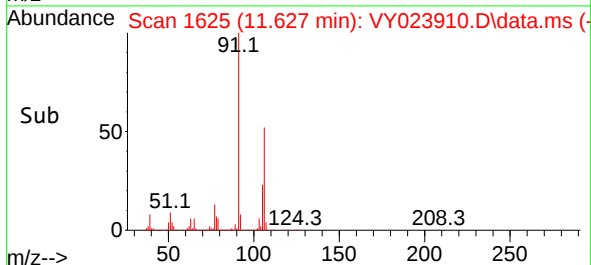
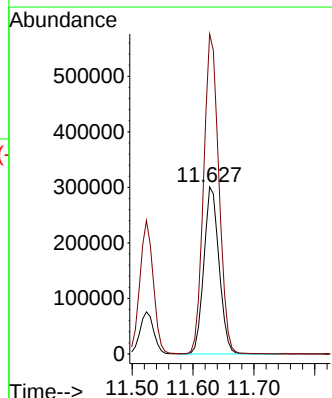
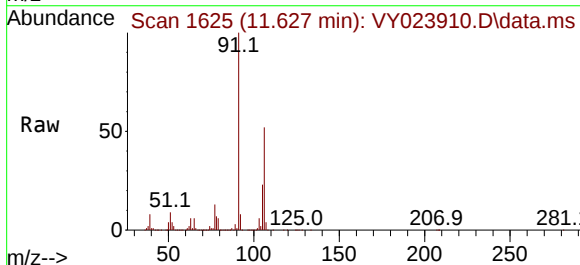
Acq: 09 Dec 2025 15:53

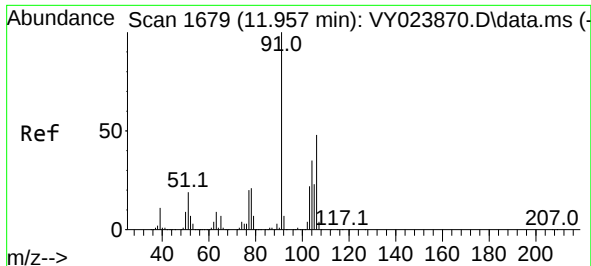
Tgt Ion:106 Resp: 520599

Ion Ratio Lower Upper

106 100

91 192.3 159.7 239.5

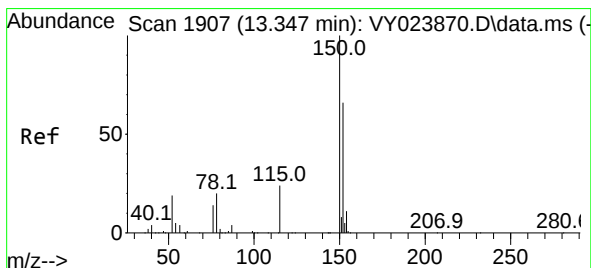
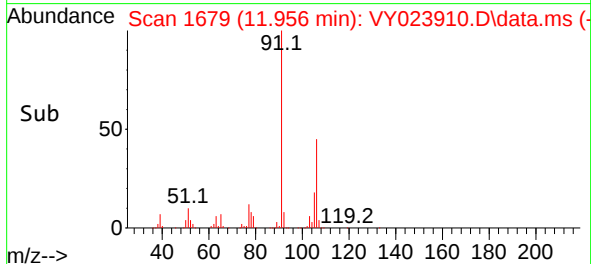
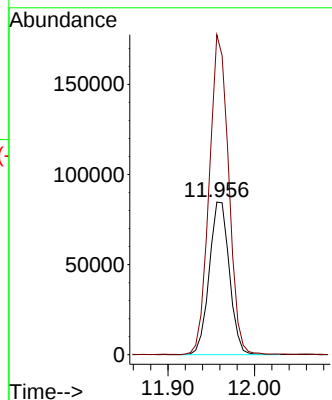
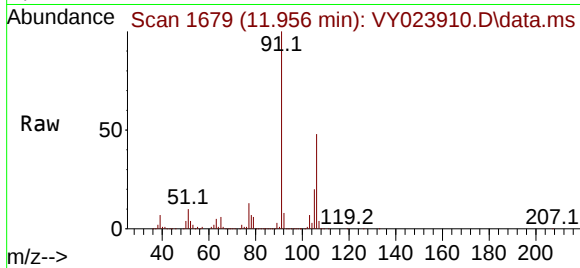




#69
o-Xylene
Concen: 10.016 ug/l
RT: 11.956 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

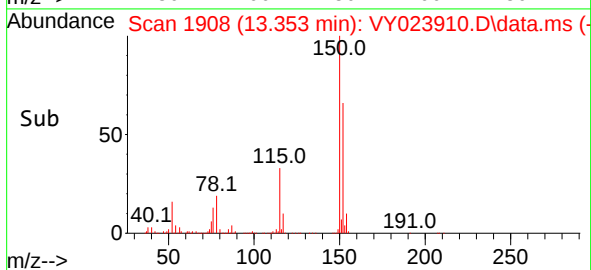
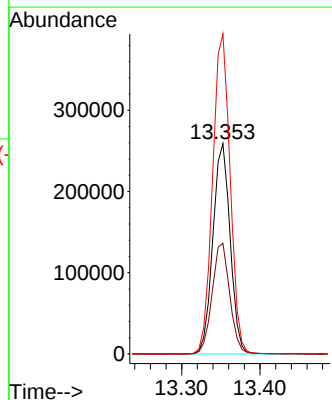
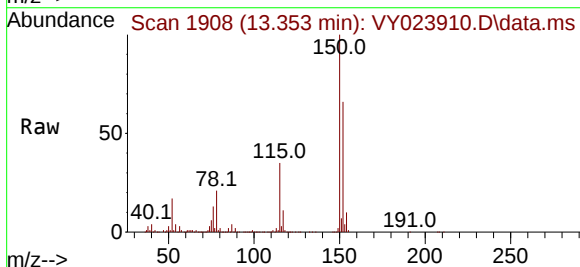
Instrument :
MSVOA_Y
ClientSampleId :
B-2

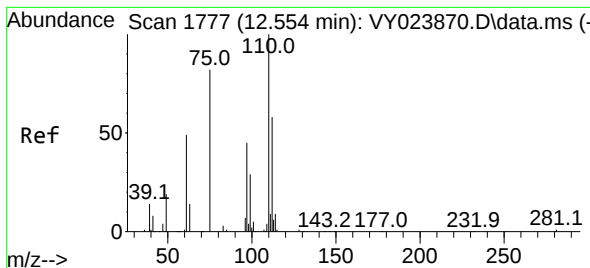
Tgt Ion:106 Resp: 136799
Ion Ratio Lower Upper
106 100
91 202.2 104.4 313.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion:152 Resp: 396624
Ion Ratio Lower Upper
152 100
115 53.8 28.8 86.4
150 154.3 0.0 352.2

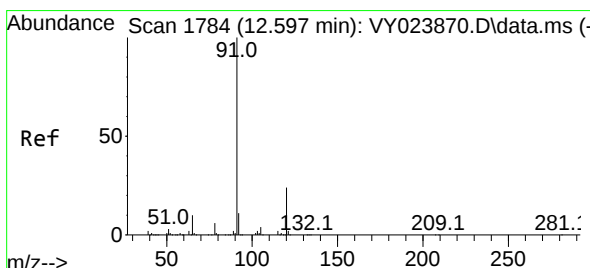
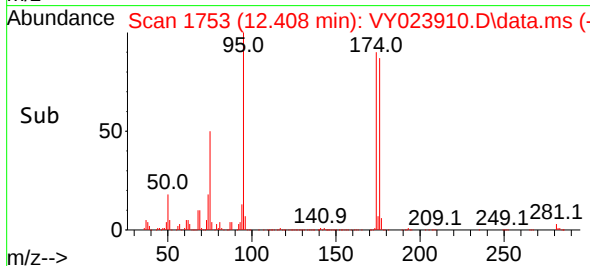
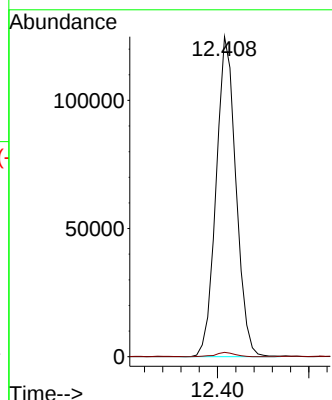
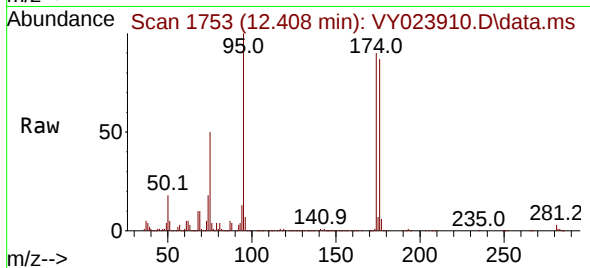




#76
1,2,3-Trichloropropane
Concen: 48.025 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

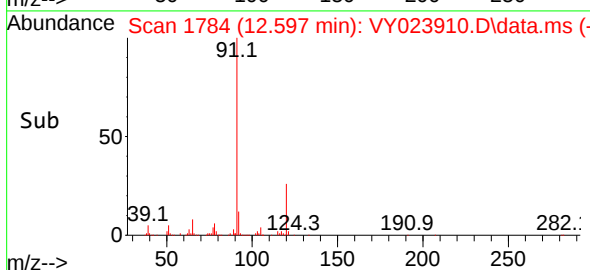
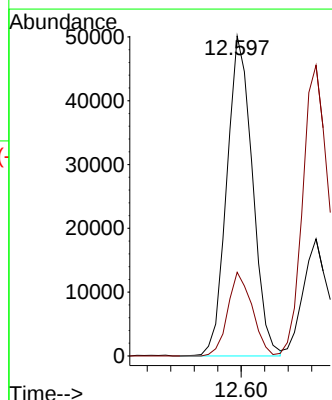
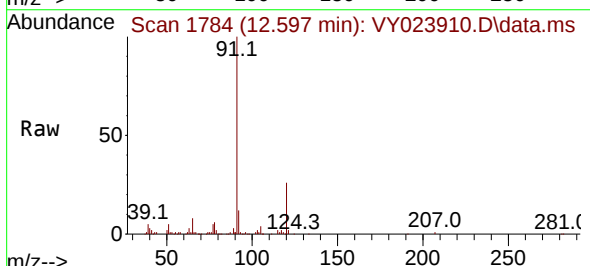
Instrument :
MSVOA_Y
ClientSampleId :
B-2

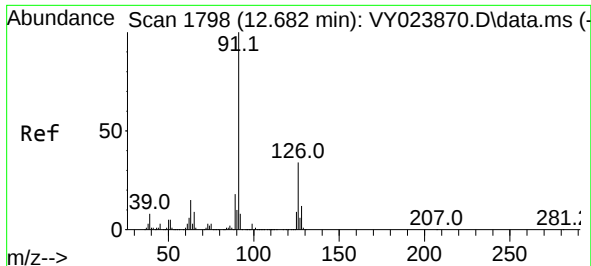
Tgt Ion: 75 Resp: 188834
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#78
n-propylbenzene
Concen: 2.156 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 91 Resp: 76042
Ion Ratio Lower Upper
91 100
120 24.8 11.5 34.5





#79

2-Chlorotoluene

Concen: 1.238 ug/l

RT: 12.664 min Scan# 1

Delta R.T. -0.018 min

Lab File: VY023910.D

Acq: 09 Dec 2025 15:53

Instrument :

MSVOA_Y

ClientSampleId :

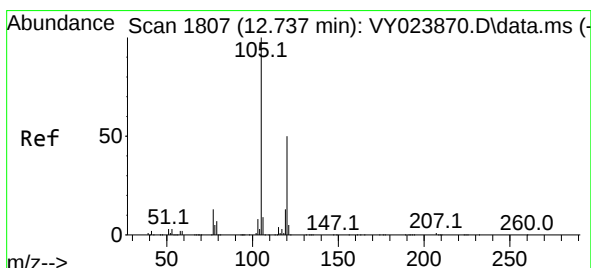
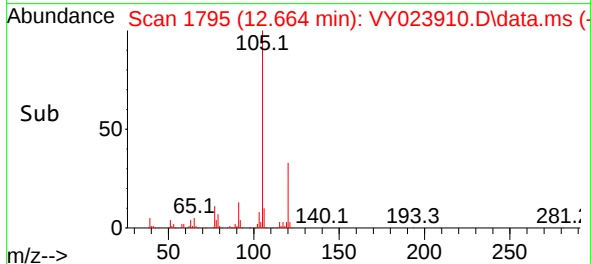
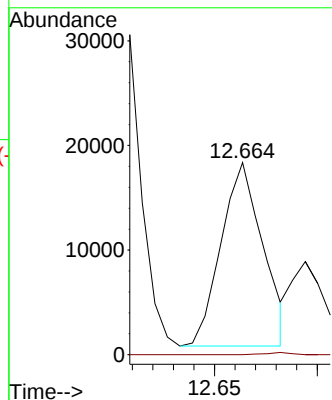
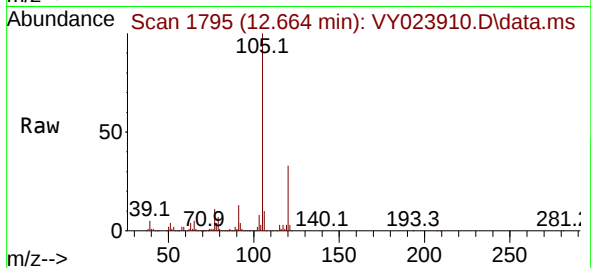
B-2

Tgt Ion: 91 Resp: 24792

Ion Ratio Lower Upper

91 100

126 0.7 17.0 51.0#



#80

1,3,5-Trimethylbenzene

Concen: 2.393 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.006 min

Lab File: VY023910.D

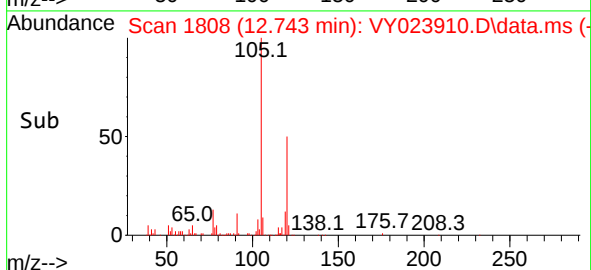
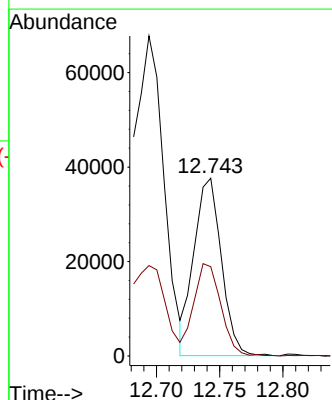
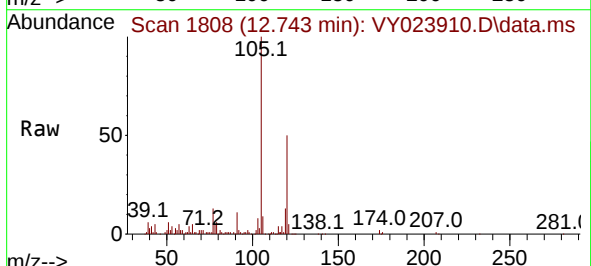
Acq: 09 Dec 2025 15:53

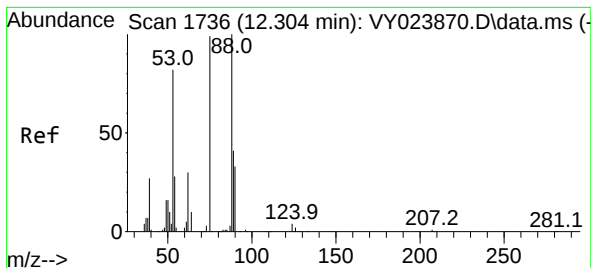
Tgt Ion:105 Resp: 56820

Ion Ratio Lower Upper

105 100

120 51.4 24.9 74.6

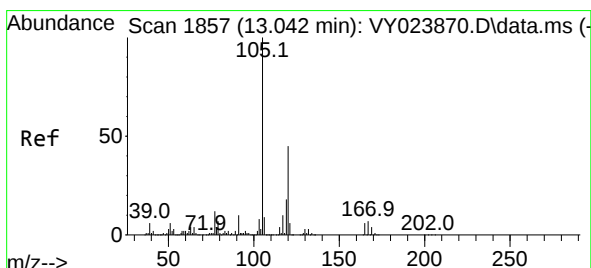
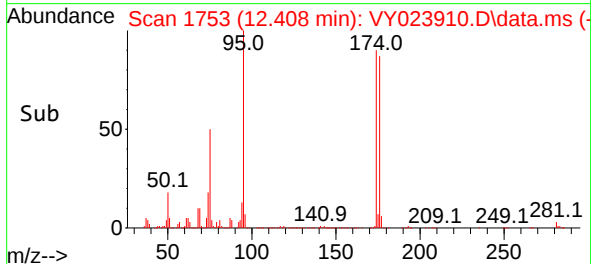
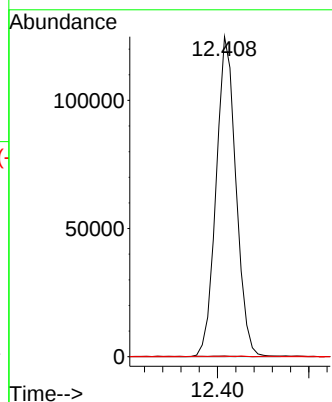
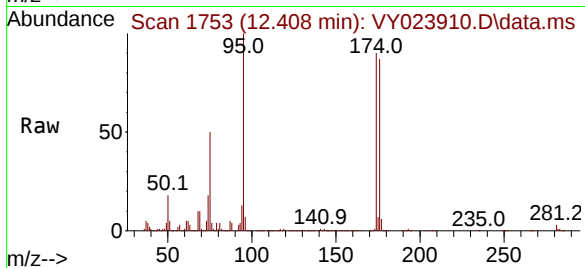




#81
trans-1,4-Dichloro-2-butene
Concen: 115.024 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

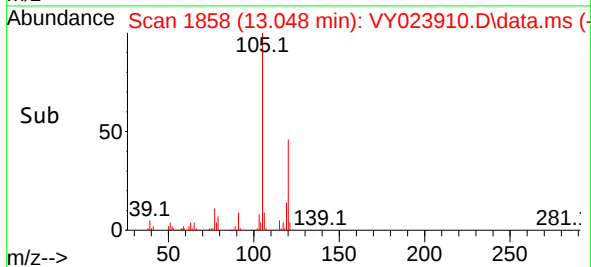
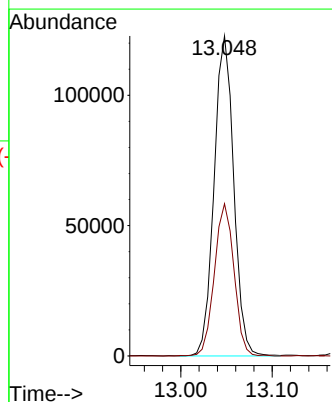
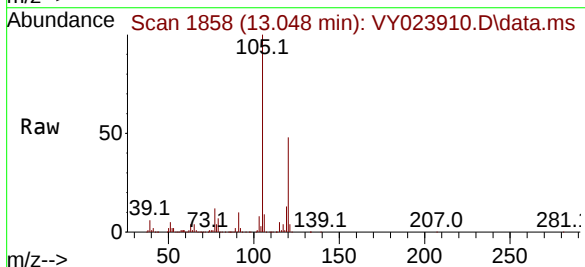
Instrument :
MSVOA_Y
ClientSampleId :
B-2

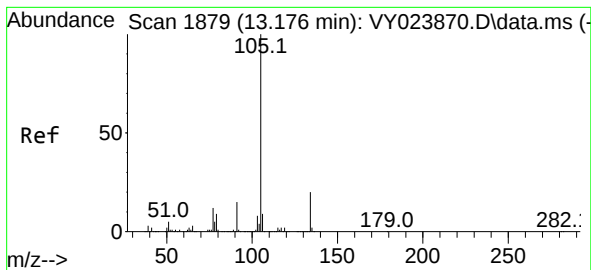
Tgt Ion: 75 Resp: 188834
Ion Ratio Lower Upper
75 100
53 0.3 71.1 106.7#
89 0.1 36.3 54.5#



#84
1,2,4-Trimethylbenzene
Concen: 7.793 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023910.D
Acq: 09 Dec 2025 15:53

Tgt Ion: 105 Resp: 183311
Ion Ratio Lower Upper
105 100
120 47.5 22.4 67.3





#85
 sec-Butylbenzene
 Concen: 5.757 ug/l
 RT: 13.048 min Scan# 11
 Delta R.T. -0.128 min
 Lab File: VY023910.D
 Acq: 09 Dec 2025 15:53

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-2

Tgt Ion:105 Resp: 183311
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#

