

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121125\
 Data File : VY023952.D
 Acq On : 11 Dec 2025 14:08
 Operator : SY/MD
 Sample : Q3809-14RE
 Misc : 3.26g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-4

Quant Time: Dec 12 03:23:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 11 03:57:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	710121	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1235722	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1063567	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	453202	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	344164	54.816	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 109.640%	
35) Dibromofluoromethane	7.640	113	384205	47.563	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 95.120%	
50) Toluene-d8	10.109	98	1416852	47.111	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.220%	
62) 4-Bromofluorobenzene	12.408	95	431093	42.922	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 85.840%	

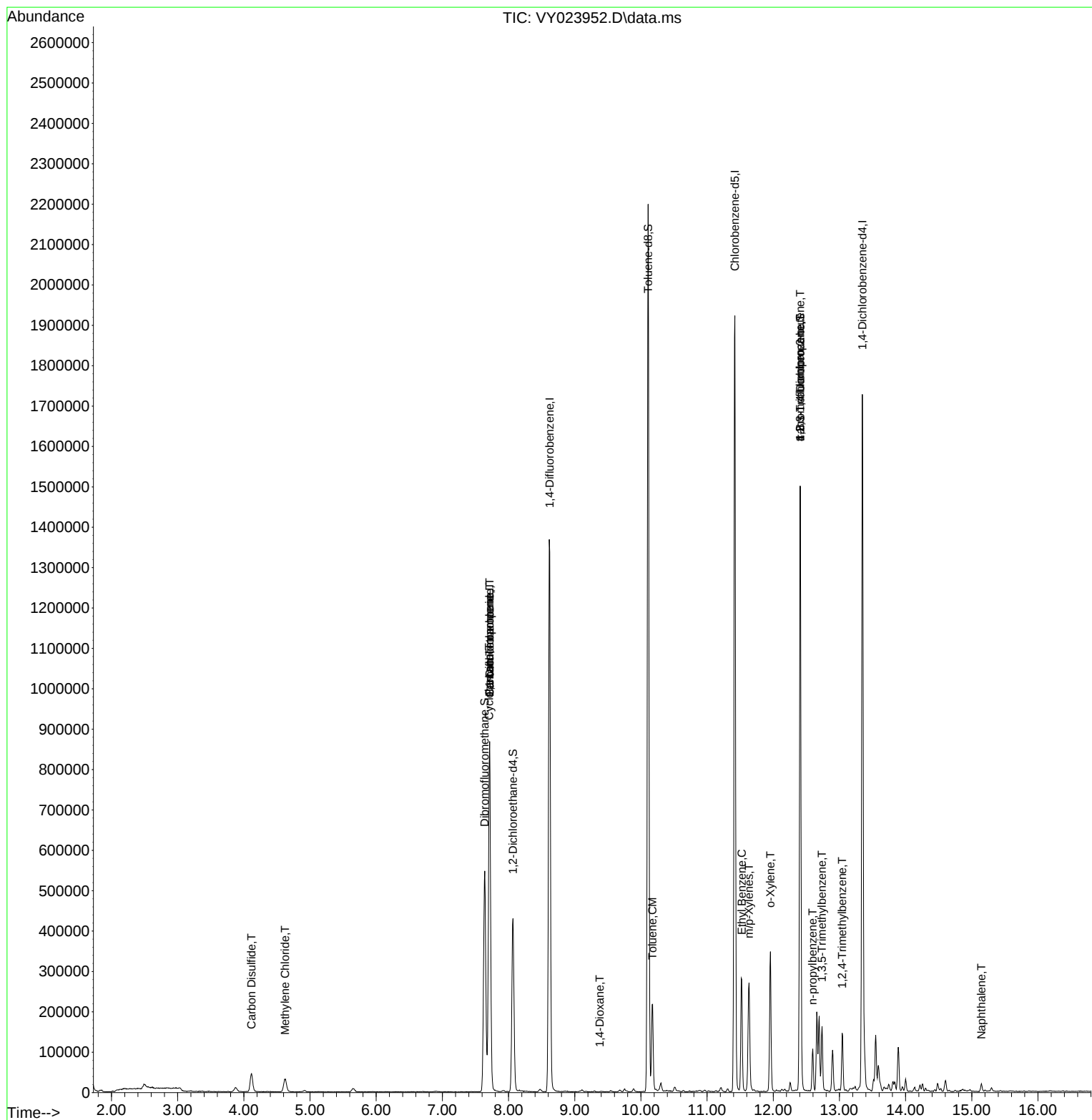
Target Compounds				Qvalue		
10) Methyl Iodide	4.031	142	612	Below Cal	#	76
16) Acetone	3.879	43	17974	Below Cal	#	85
17) Carbon Disulfide	4.116	76	92296	5.393	ug/l	97
20) Methylene Chloride	4.622	84	24277	3.287	ug/l	# 84
31) Cyclohexane	7.707	56	13321	1.237	ug/l	# 1
36) 1,1-Dichloropropene	7.713	75	47706	4.338	ug/l	# 48
38) Carbon Tetrachloride	7.713	117	64648	4.850	ug/l	# 17
49) 1,4-Dioxane	9.378	88	84	1.693	ug/l	# 9
52) Toluene	10.176	92	94179	4.250	ug/l	100
67) Ethyl Benzene	11.524	91	196321	4.754	ug/l	98
68) m/p-Xylenes	11.633	106	84274	5.141	ug/l	99
69) o-Xylene	11.957	106	93087	6.071	ug/l	99
76) 1,2,3-Trichloropropane	12.408	75	214886	56.053	ug/l	# 100
78) n-propylbenzene	12.597	91	75786	1.967	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	70719	2.676	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	214886	127.590	ug/l	# 12
84) 1,2,4-Trimethylbenzene	13.042	105	76059	2.906	ug/l	96
95) Naphthalene	15.145	128	15226	1.212	ug/l	98

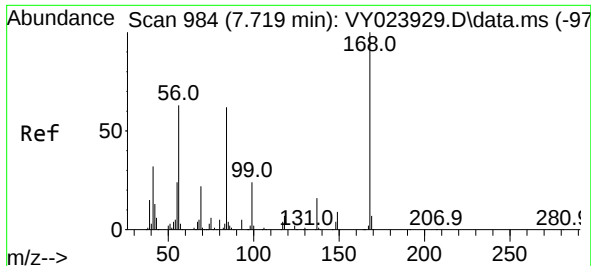
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 03:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 11 03:57:51 2025
Response via : Initial Calibration

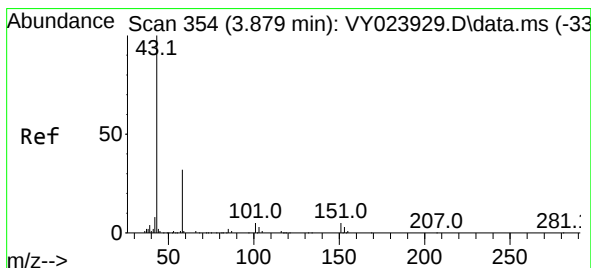
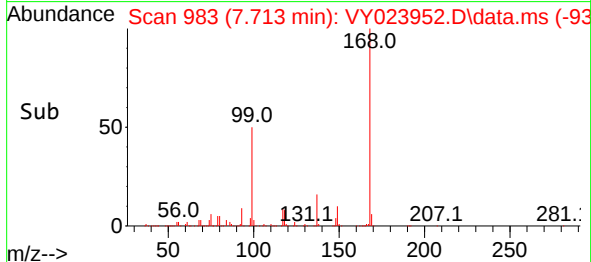
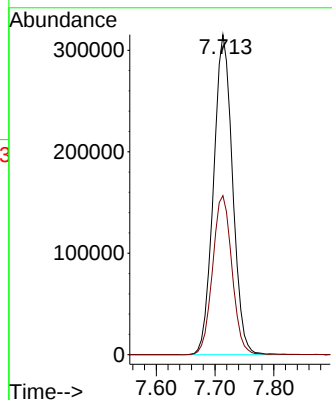
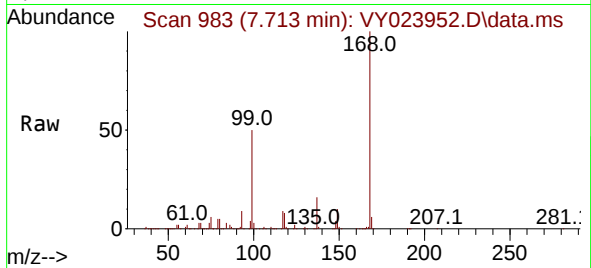




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

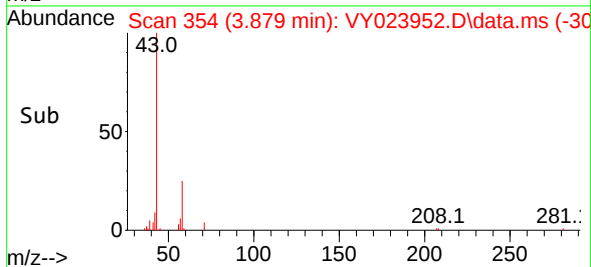
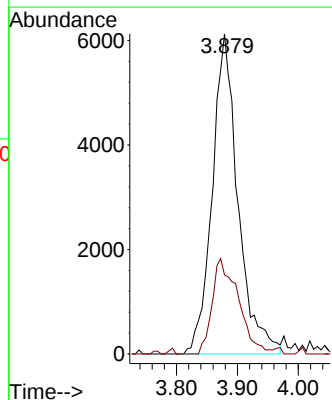
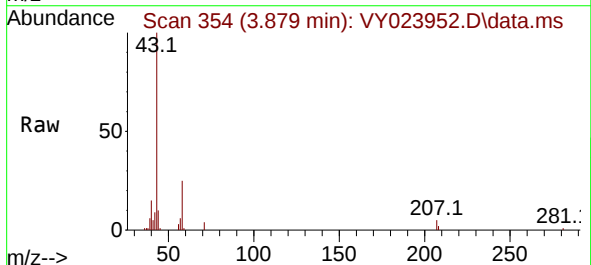
Instrument :
MSVOA_Y
ClientSampleId :
B-4

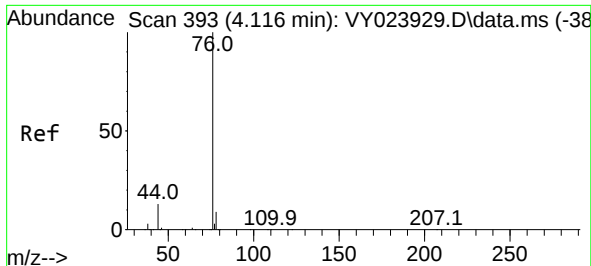
Tgt Ion:168 Resp: 710121
Ion Ratio Lower Upper
168 100
99 49.7 38.9 58.3



#16
Acetone
Concen: Below Cal
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

Tgt Ion: 43 Resp: 17974
Ion Ratio Lower Upper
43 100
58 24.7 26.4 39.6#

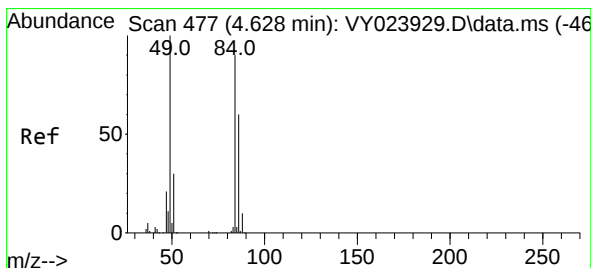
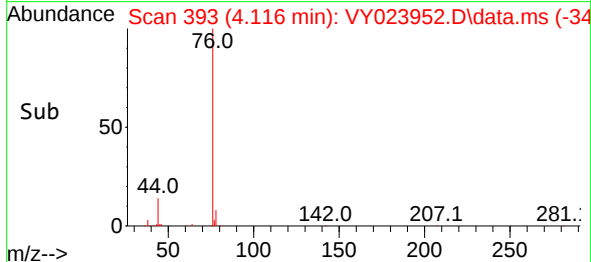
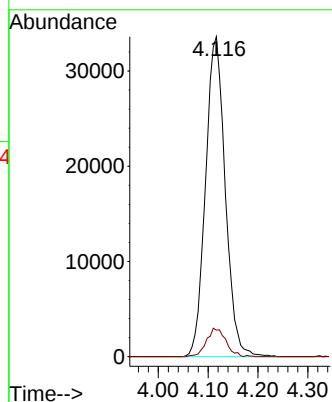
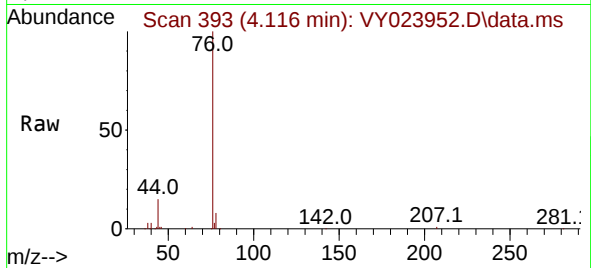




#17
Carbon Disulfide
Concen: 5.393 ug/l
RT: 4.116 min Scan# 393
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

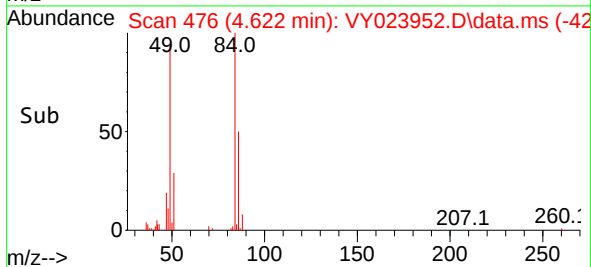
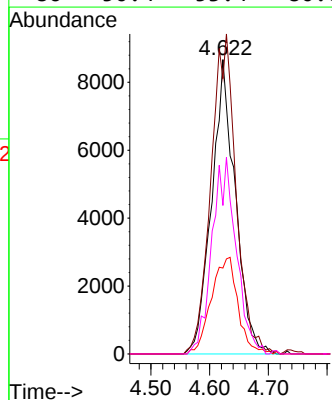
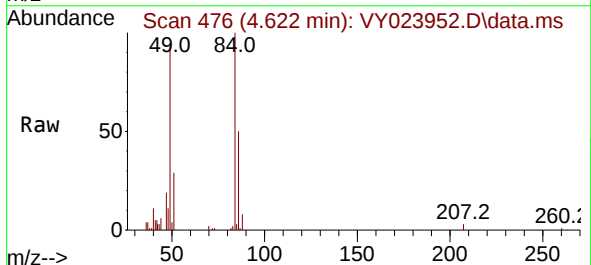
Instrument :
MSVOA_Y
ClientSampleId :
B-4

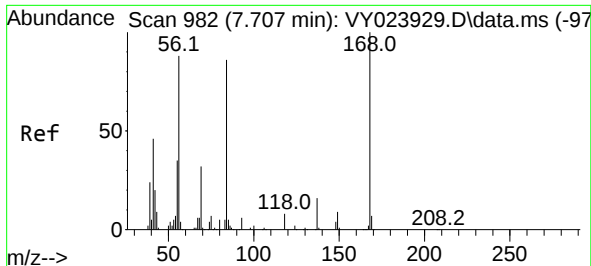
Tgt Ion: 76 Resp: 92296
Ion Ratio Lower Upper
76 100
78 8.3 7.4 11.2



#20
Methylene Chloride
Concen: 3.287 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.006 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

Tgt Ion: 84 Resp: 24277
Ion Ratio Lower Upper
84 100
49 93.5 89.1 133.7
51 29.2 26.6 39.8
86 50.4 53.4 80.0#

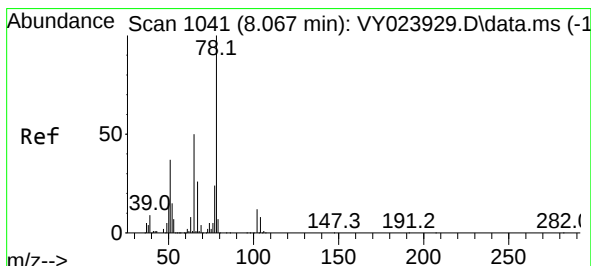
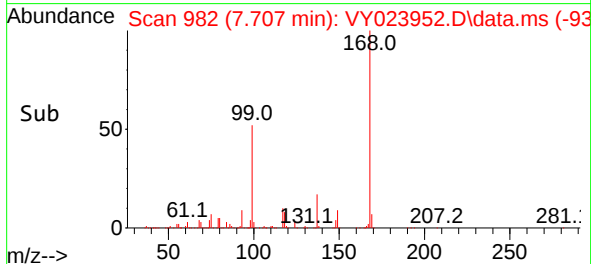
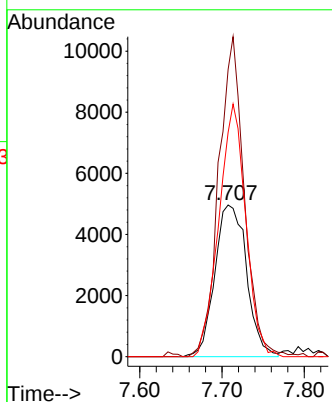
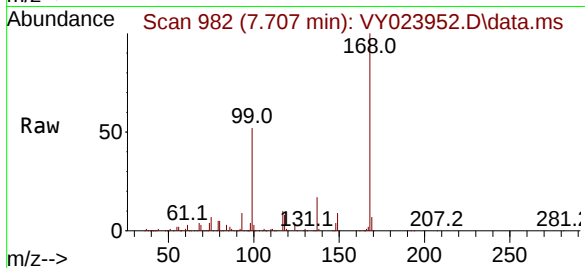




#31
Cyclohexane
Concen: 1.237 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

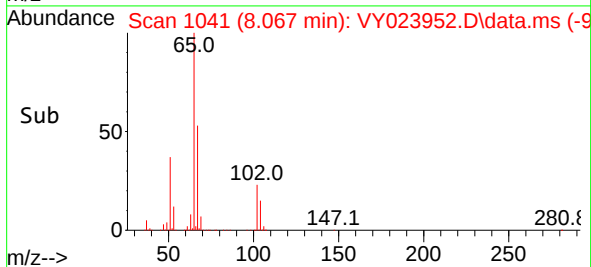
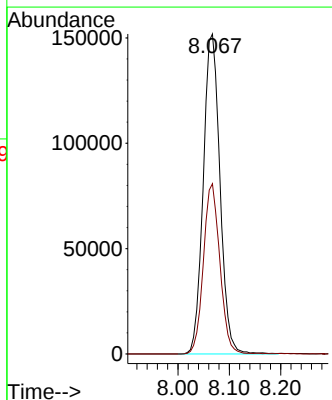
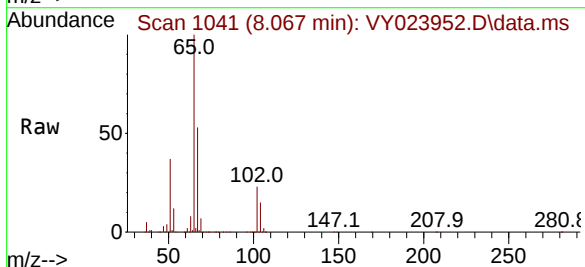
Instrument :
MSVOA_Y
ClientSampleId :
B-4

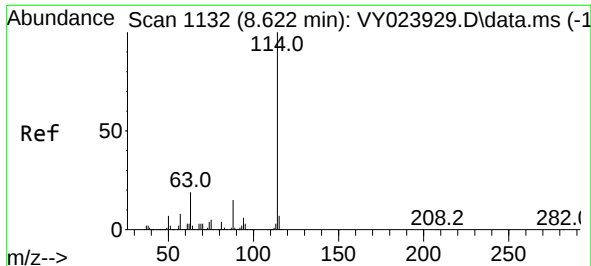
Tgt Ion: 56 Resp: 13321
Ion Ratio Lower Upper
56 100
69 187.7 29.1 43.7#
84 147.8 77.8 116.8#



#33
1,2-Dichloroethane-d4
Concen: 54.816 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

Tgt Ion: 65 Resp: 344164
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.2

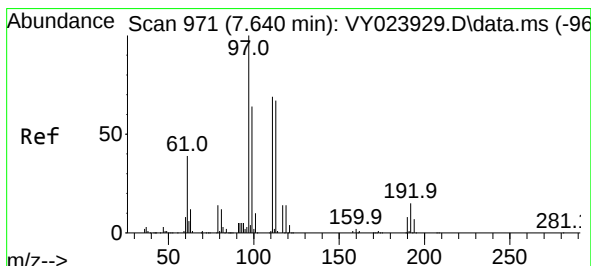
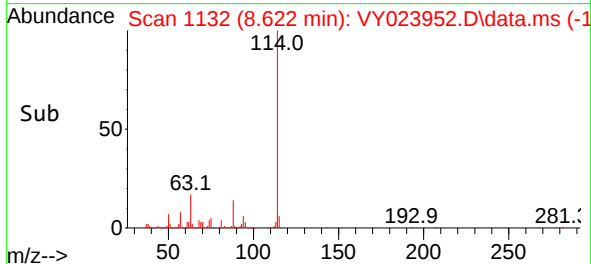
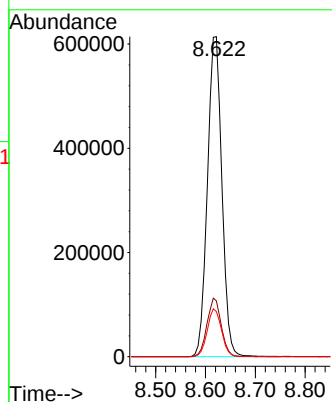
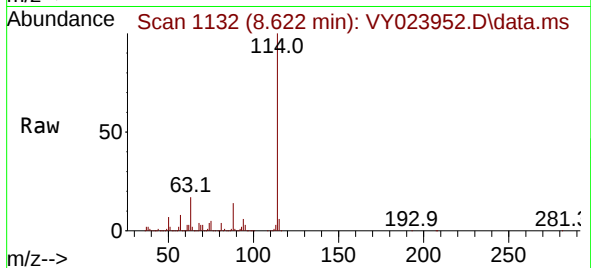




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

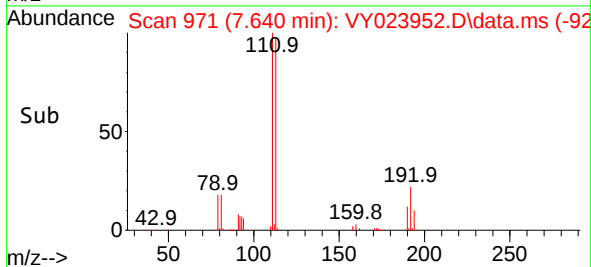
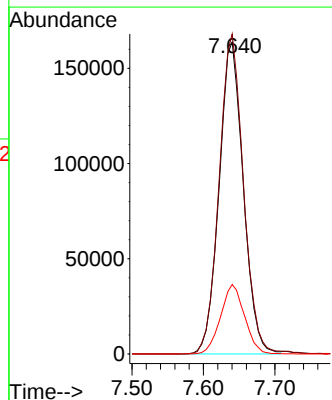
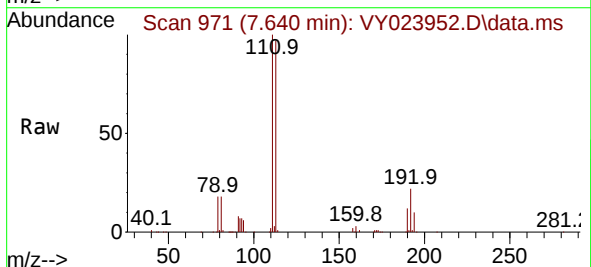
Instrument :
MSVOA_Y
ClientSampleId :
B-4

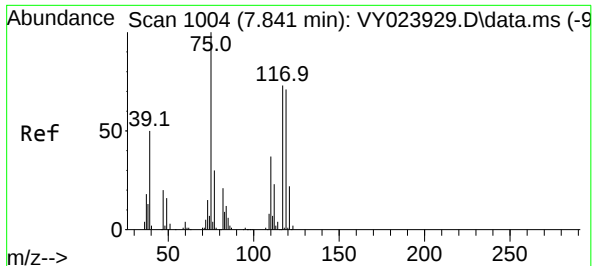
Tgt Ion:114 Resp: 1235722
Ion Ratio Lower Upper
114 100
63 17.5 0.0 37.2
88 14.1 0.0 29.4



#35
Dibromofluoromethane
Concen: 47.563 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

Tgt Ion:113 Resp: 384205
Ion Ratio Lower Upper
113 100
111 103.4 82.4 123.6
192 22.1 17.9 26.9





#36

1,1-Dichloropropene

Concen: 4.338 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.128 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

Instrument :

MSVOA_Y

ClientSampleId :

B-4

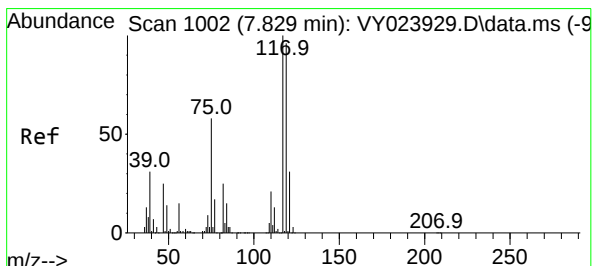
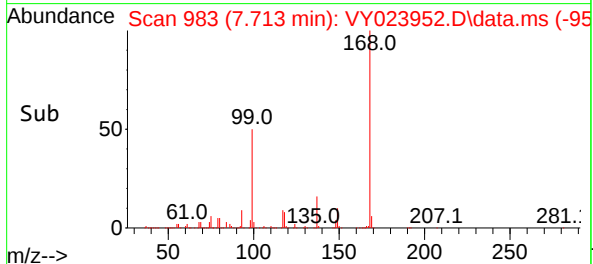
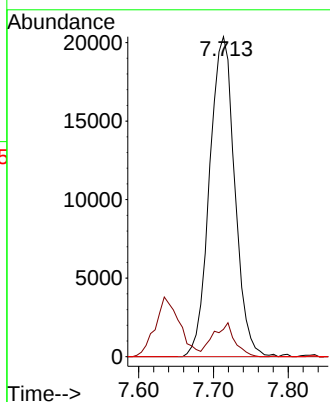
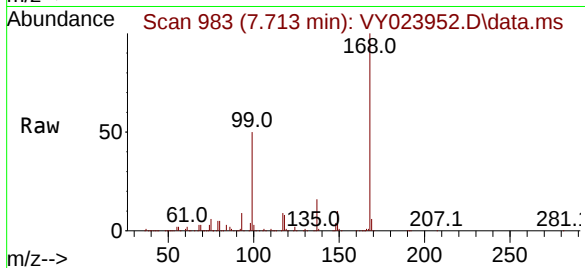
Tgt Ion: 75 Resp: 47706

Ion Ratio Lower Upper

75 100

110 9.1 19.2 57.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.850 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.116 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

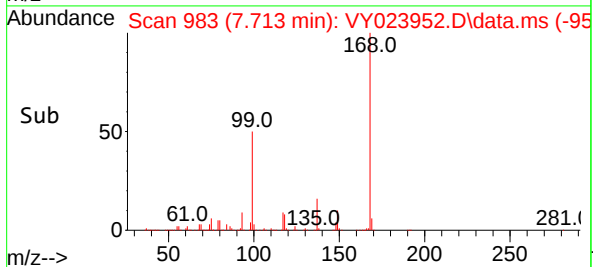
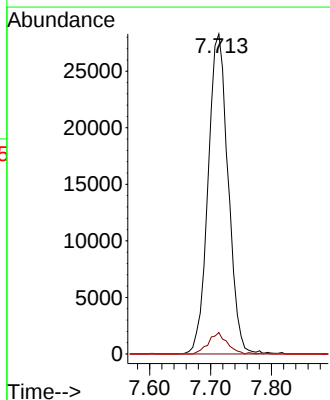
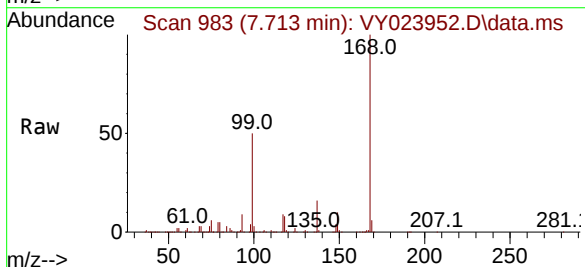
Tgt Ion: 117 Resp: 64648

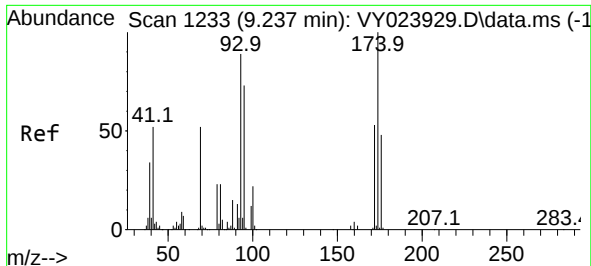
Ion Ratio Lower Upper

117 100

119 6.7 76.6 114.8#

121 0.0 24.8 37.2#





#49

1,4-Dioxane

Concen: 1.693 ug/l

RT: 9.378 min Scan# 1233

Delta R.T. 0.140 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

Instrument :

MSVOA_Y

ClientSampleId :

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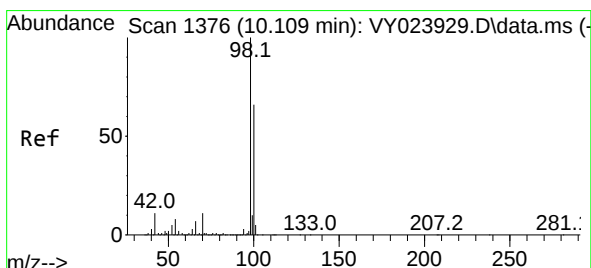
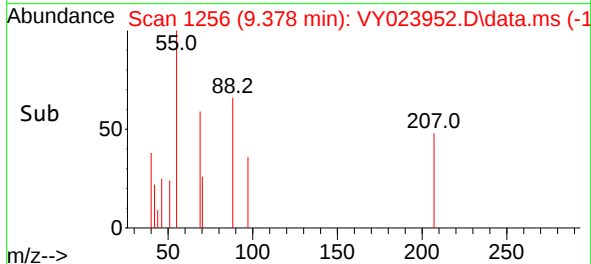
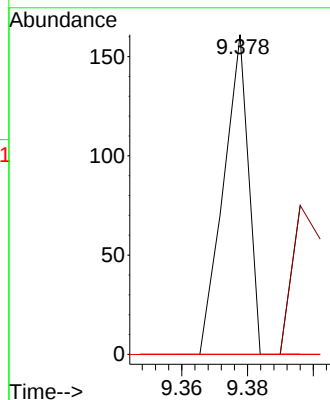
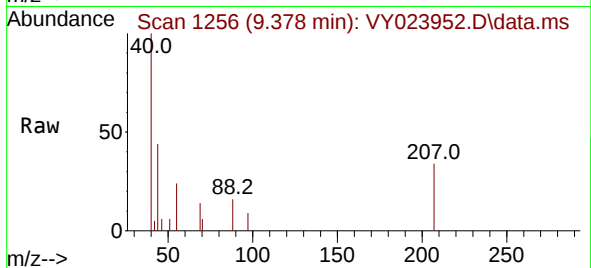
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 85.7 22.3 33.5#

58 0.0 52.3 78.5#



#50

Toluene-d8

Concen: 47.111 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023952.D

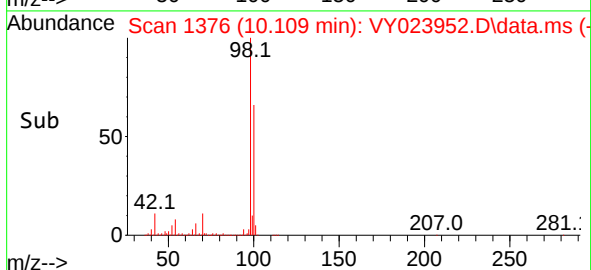
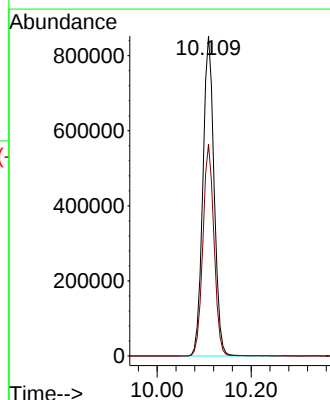
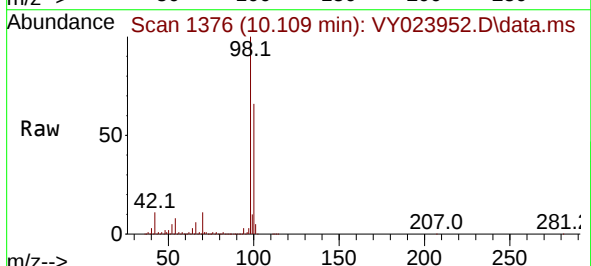
Acq: 11 Dec 2025 14:08

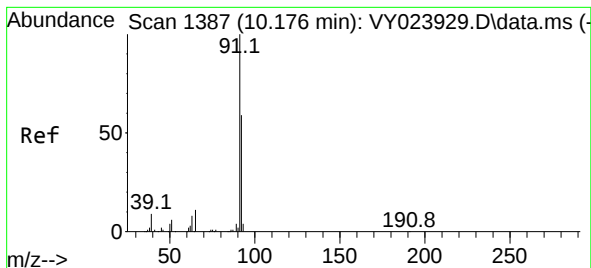
Tgt Ion: 98 Resp: 1416852

Ion Ratio Lower Upper

98 100

100 65.5 52.8 79.2





#52

Toluene

Concen: 4.250 ug/l

RT: 10.176 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

Instrument :

MSVOA_Y

ClientSampleId :

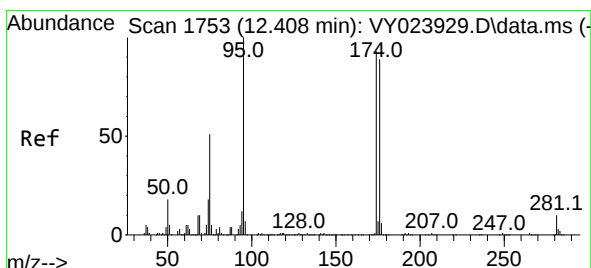
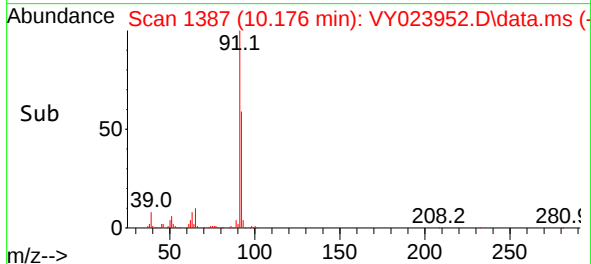
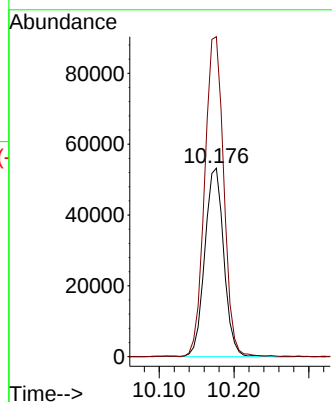
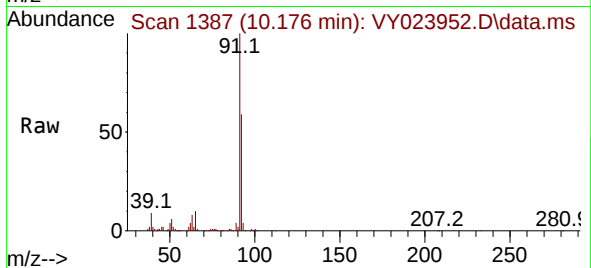
B-4

Tgt Ion: 92 Resp: 94179

Ion Ratio Lower Upper

92 100

91 170.3 135.8 203.6



#62

4-Bromofluorobenzene

Concen: 42.922 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

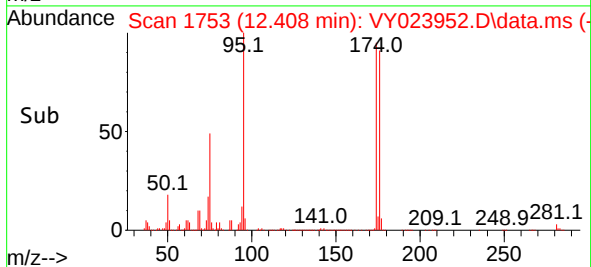
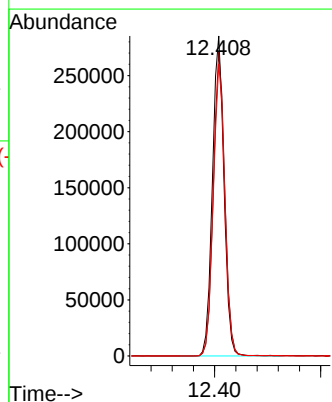
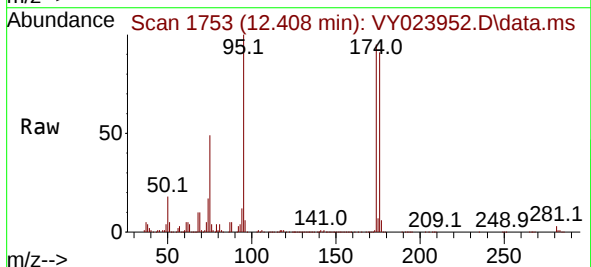
Tgt Ion: 95 Resp: 431093

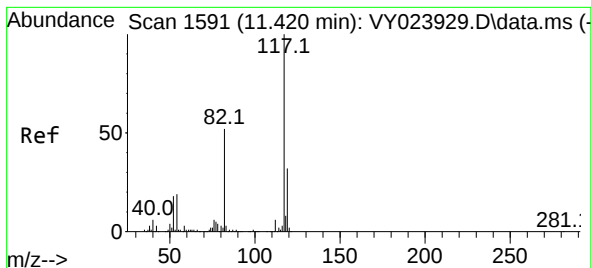
Ion Ratio Lower Upper

95 100

174 94.5 0.0 187.4

176 91.2 0.0 179.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

Instrument :

MSVOA_Y

ClientSampleId :

B-4

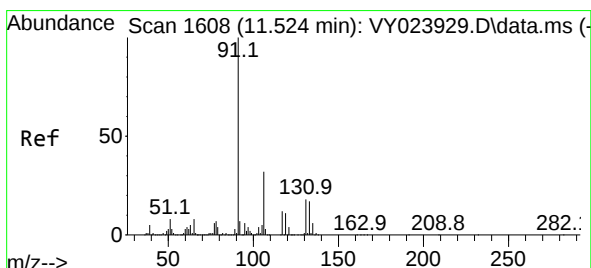
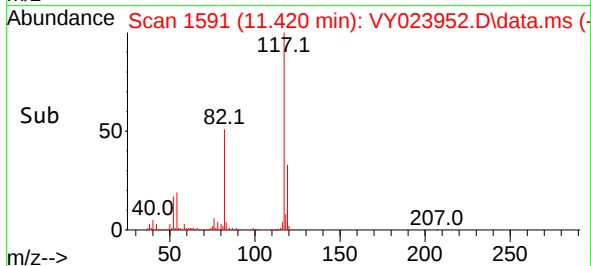
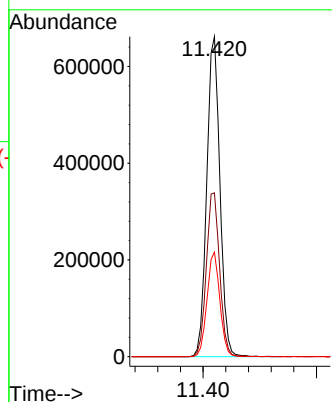
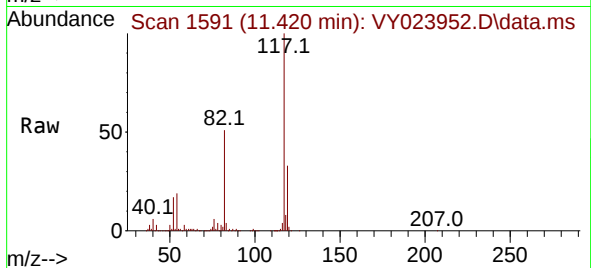
Tgt Ion:117 Resp: 1063567

Ion Ratio Lower Upper

117 100

82 51.2 41.4 62.2

119 32.7 25.5 38.3



#67

Ethyl Benzene

Concen: 4.754 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY023952.D

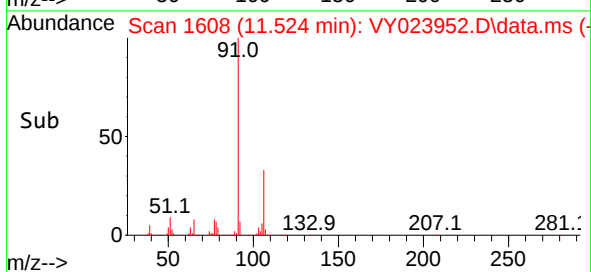
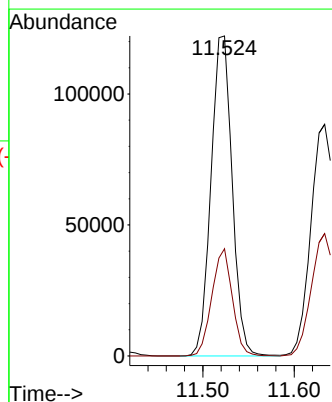
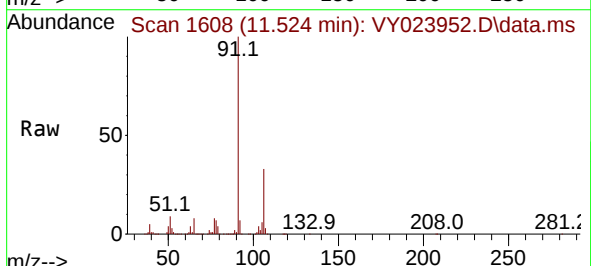
Acq: 11 Dec 2025 14:08

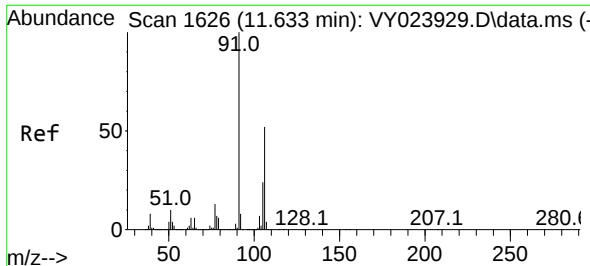
Tgt Ion: 91 Resp: 196321

Ion Ratio Lower Upper

91 100

106 33.5 25.8 38.8

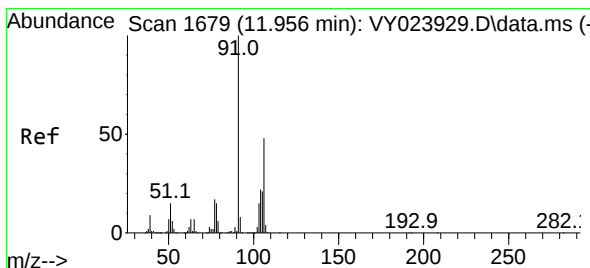
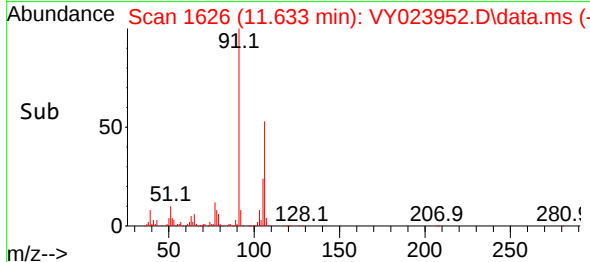
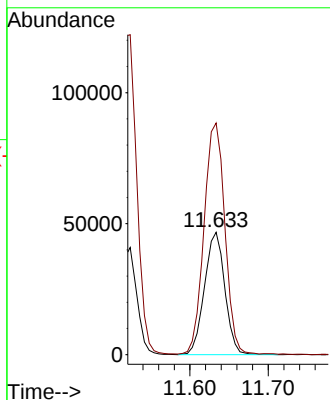
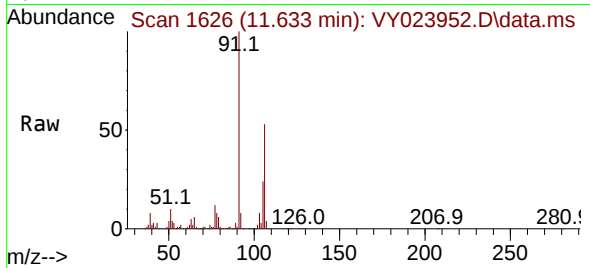




#68
m/p-Xylenes
Concen: 5.141 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

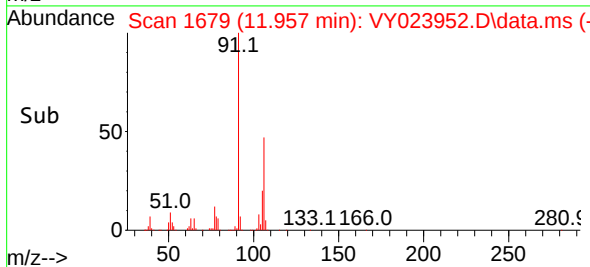
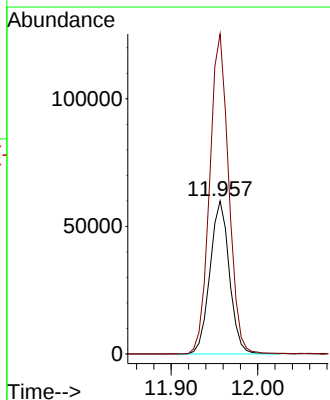
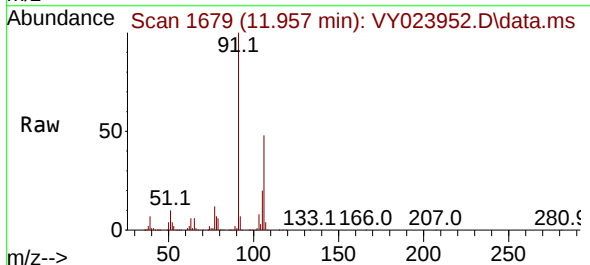
Instrument :
MSVOA_Y
ClientSampleId :
B-4

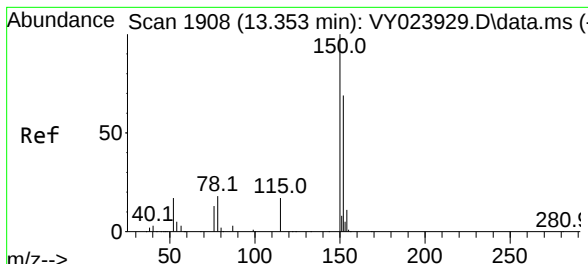
Tgt Ion:106 Resp: 84274
Ion Ratio Lower Upper
106 100
91 192.9 155.0 232.6



#69
o-Xylene
Concen: 6.071 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. 0.000 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

Tgt Ion:106 Resp: 93087
Ion Ratio Lower Upper
106 100
91 206.2 102.1 306.1

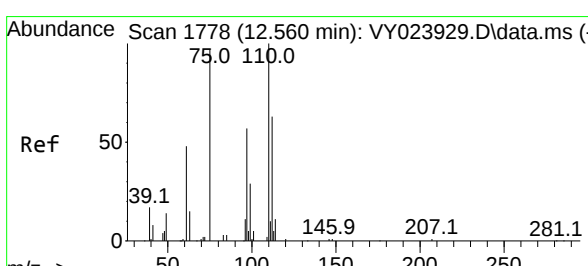
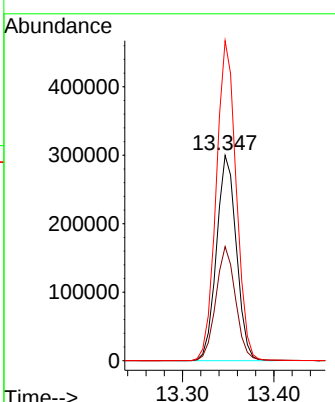
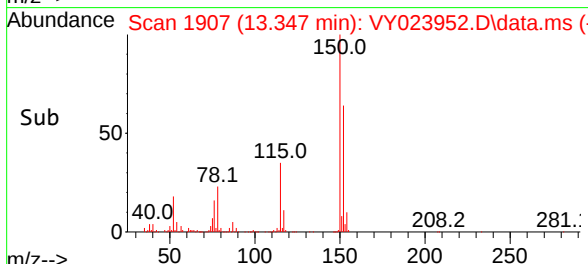
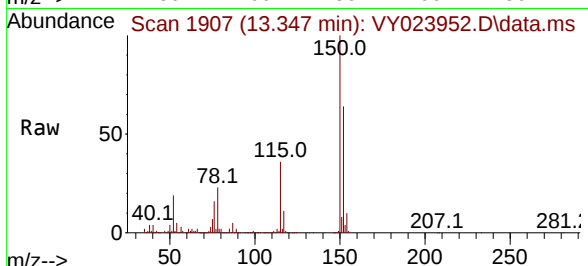




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.347 min Scan# 1907
 Delta R.T. -0.006 min
 Lab File: VY023952.D
 Acq: 11 Dec 2025 14:08

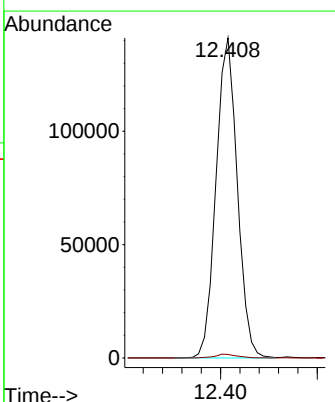
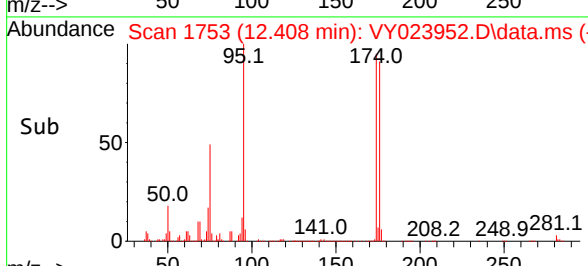
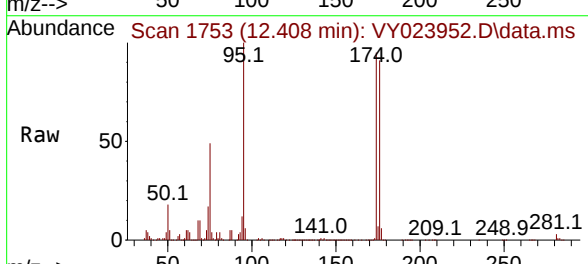
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-4

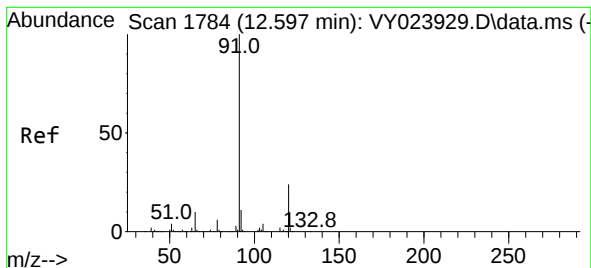
Tgt Ion:	152	Resp:	453202
Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.3	81.9
150	156.6	0.0	347.6



#76
 1,2,3-Trichloropropane
 Concen: 56.053 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY023952.D
 Acq: 11 Dec 2025 14:08

Tgt Ion:	75	Resp:	214886
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#





#78

n-propylbenzene

Concen: 1.967 ug/l

RT: 12.597 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023952.D

Acq: 11 Dec 2025 14:08

Instrument :

MSVOA_Y

ClientSampleId :

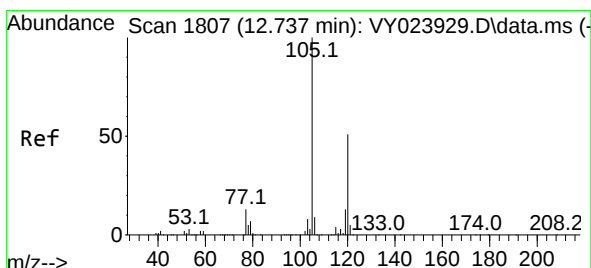
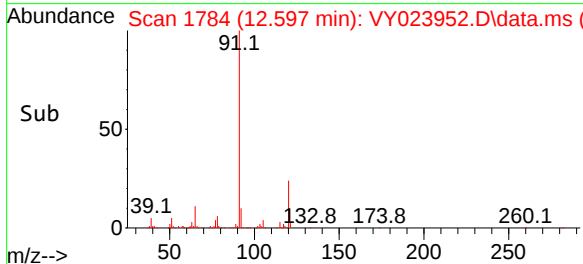
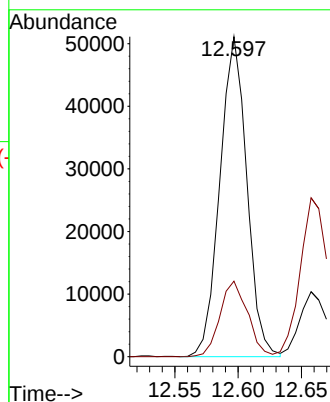
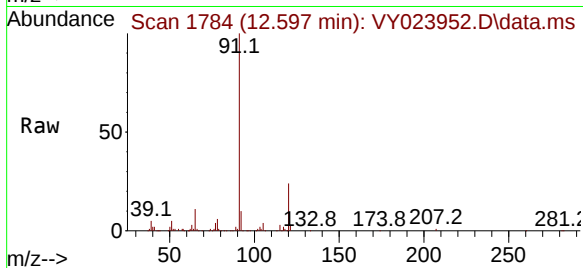
B-4

Tgt Ion: 91 Resp: 75786

Ion Ratio Lower Upper

91 100

120 24.2 12.0 36.0



#80

1,3,5-Trimethylbenzene

Concen: 2.676 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023952.D

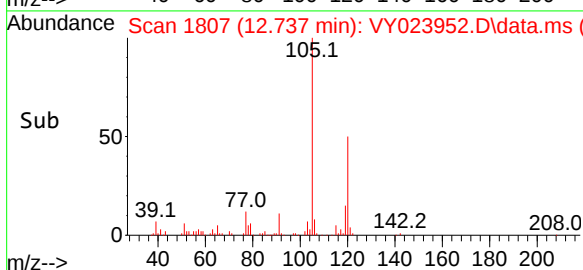
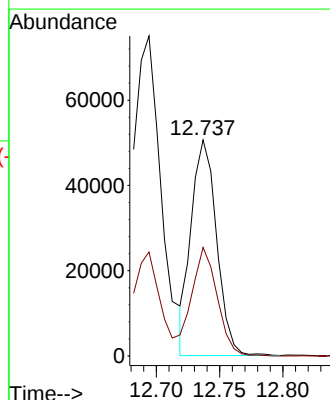
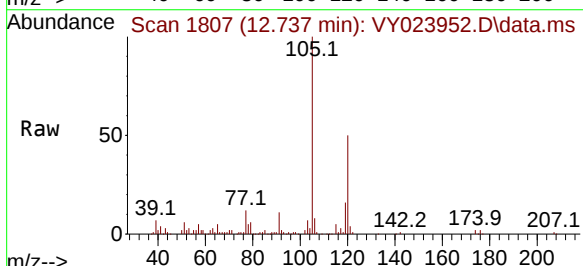
Acq: 11 Dec 2025 14:08

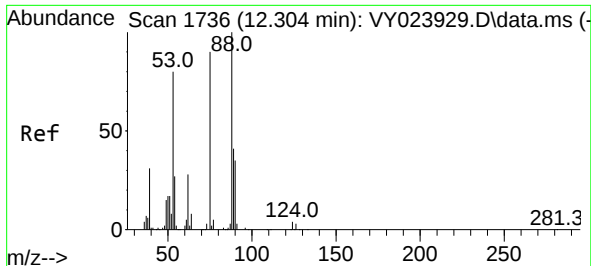
Tgt Ion: 105 Resp: 70719

Ion Ratio Lower Upper

105 100

120 51.9 25.7 77.1

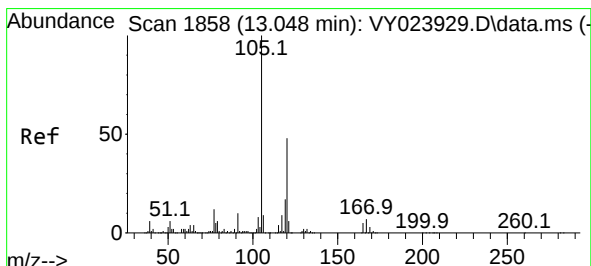
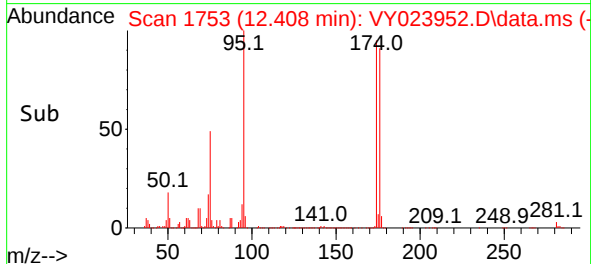
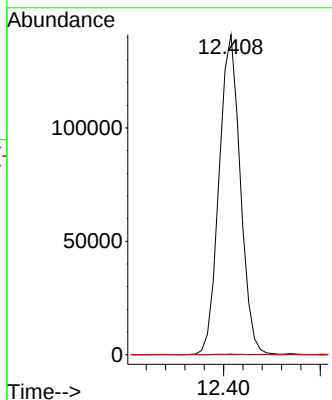
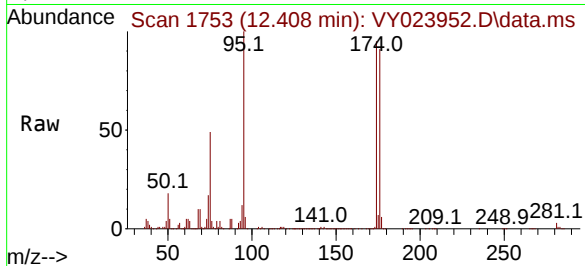




#81
trans-1,4-Dichloro-2-butene
Concen: 127.590 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

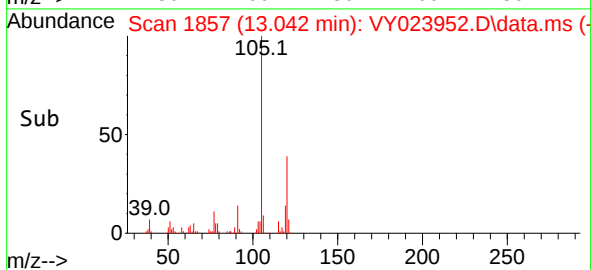
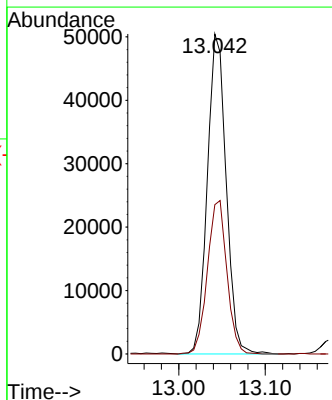
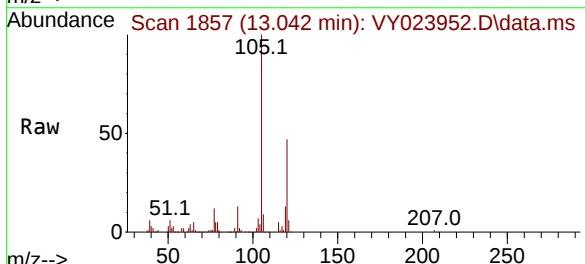
Instrument :
MSVOA_Y
ClientSampleId :
B-4

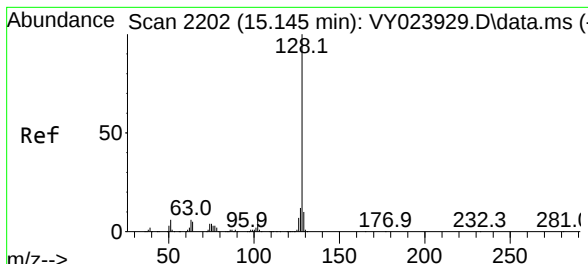
Tgt Ion: 75 Resp: 214886
Ion Ratio Lower Upper
75 100
53 0.2 73.4 110.0#
89 0.0 38.9 58.3#



#84
1,2,4-Trimethylbenzene
Concen: 2.906 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY023952.D
Acq: 11 Dec 2025 14:08

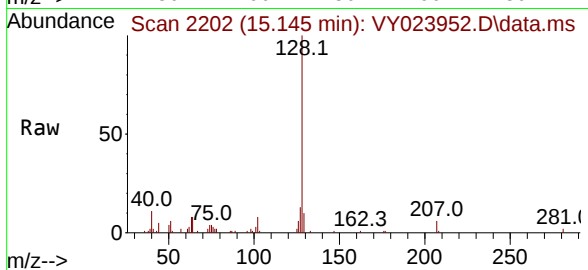
Tgt Ion: 105 Resp: 76059
Ion Ratio Lower Upper
105 100
120 49.7 23.4 70.3





#95
 Naphthalene
 Concen: 1.212 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY023952.D
 Acq: 11 Dec 2025 14:08

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-4



Tgt Ion:128 Resp: 15226

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.2
129	11.2	8.6	12.8

