

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121125\
 Data File : VY023951.D
 Acq On : 11 Dec 2025 13:44
 Operator : SY/MD
 Sample : Q3809-13RE
 Misc : 2.60g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

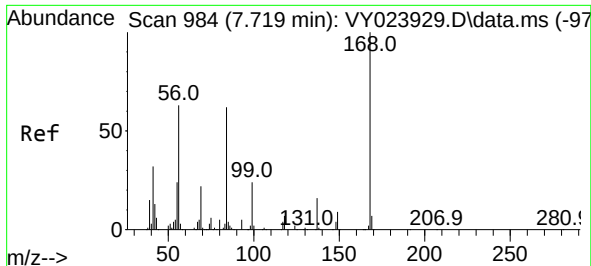
Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-10

Quant Time: Dec 12 03:22:55 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	478655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	811026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	675906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	269387	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	217448	51.382	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.760%	
35) Dibromofluoromethane	7.640	113	250002	47.156	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 94.320%	
50) Toluene-d8	10.109	98	923039	46.764	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 93.520%	
62) 4-Bromofluorobenzene	12.408	95	263911	40.036	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 80.080%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.019	142	252	Below Cal	#	47
16) Acetone	3.873	43	19632	Below Cal		97
17) Carbon Disulfide	4.117	76	151294	13.116	ug/l	100
20) Methylene Chloride	4.629	84	18255	3.667	ug/l	91
31) Cyclohexane	7.713	56	11373	1.567	ug/l #	24
36) 1,1-Dichloropropene	7.707	75	31948	4.426	ug/l #	49
38) Carbon Tetrachloride	7.713	117	43633	4.987	ug/l #	16
52) Toluene	10.176	92	307416	21.137	ug/l	99
67) Ethyl Benzene	11.524	91	300135	11.437	ug/l	98
68) m/p-Xylenes	11.627	106	435795	41.834	ug/l	100
69) o-Xylene	11.957	106	92584	9.501	ug/l	100
76) 1,2,3-Trichloropropane	12.408	75	131978	57.917	ug/l #	100
78) n-propylbenzene	12.597	91	78857	3.443	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	54228	3.453	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.408	75	131978	131.834	ug/l #	13
83) tert-Butylbenzene	13.042	119	23363	1.610	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.048	105	182070	11.702	ug/l	99
85) sec-Butylbenzene	13.048	105	182070	8.601	ug/l #	55

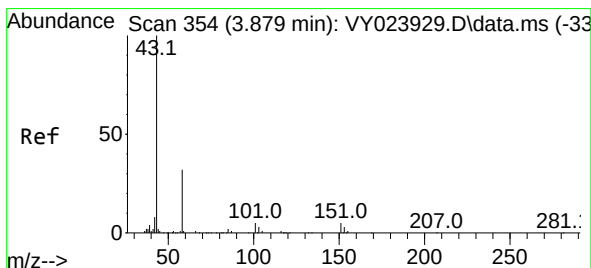
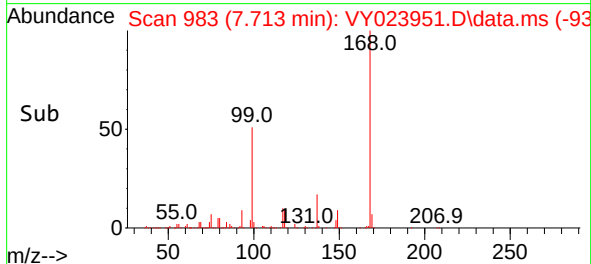
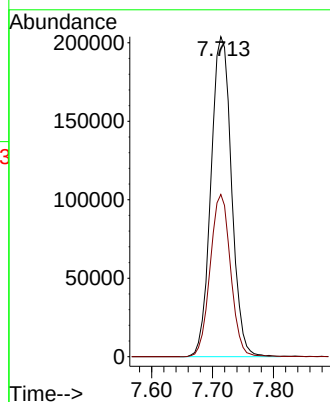
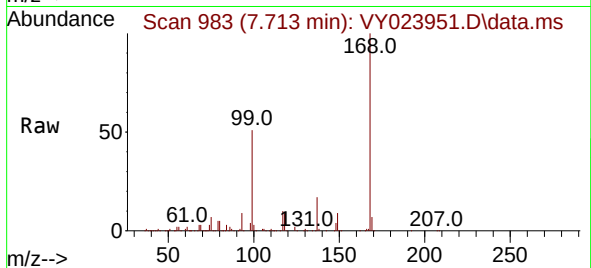
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

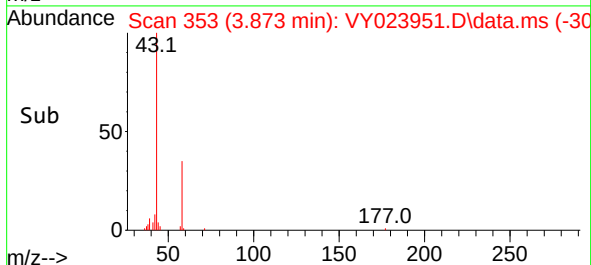
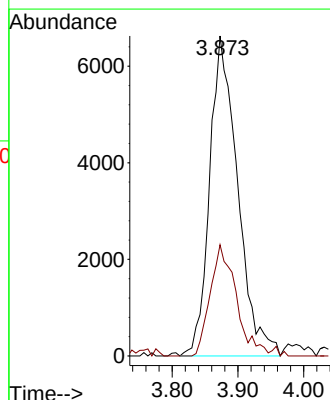
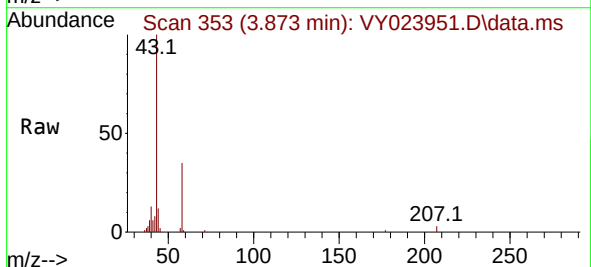
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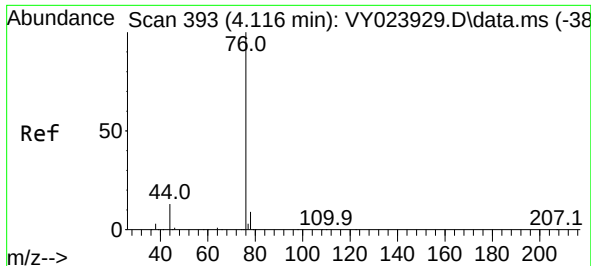
Tgt Ion:168 Resp: 478655
Ion Ratio Lower Upper
168 100
99 50.7 38.9 58.3



#16
Acetone
Concen: Below Cal
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion: 43 Resp: 19632
Ion Ratio Lower Upper
43 100
58 34.7 26.4 39.6

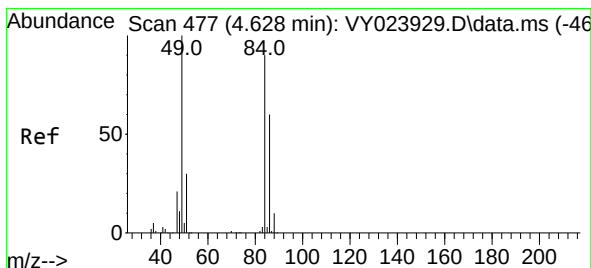
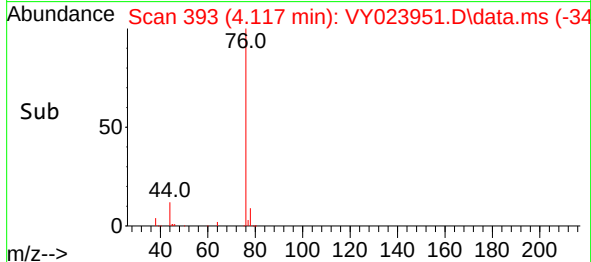
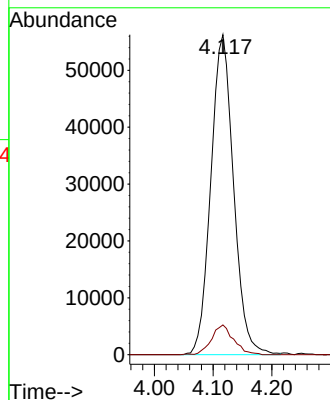
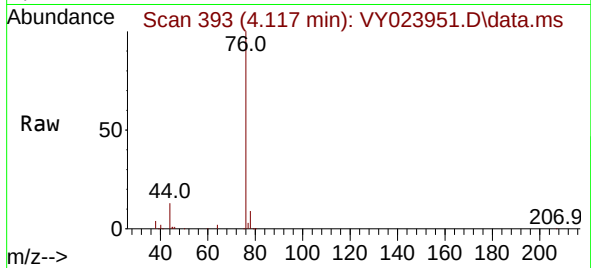




#17
Carbon Disulfide
Concen: 13.116 ug/l
RT: 4.117 min Scan# 393
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

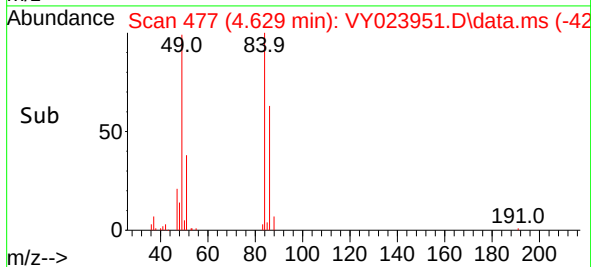
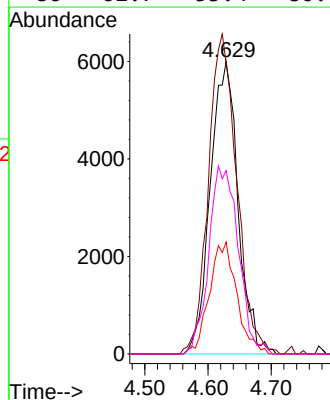
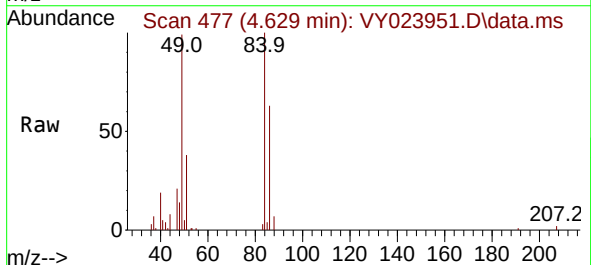
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MSVOA_Y
ClientSampleId :
SW-10

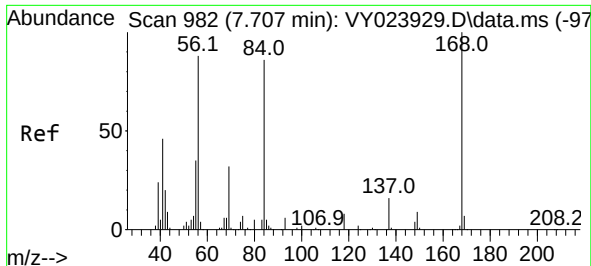
Tgt Ion: 76 Resp: 151294
Ion Ratio Lower Upper
76 100
78 9.3 7.4 11.2



#20
Methylene Chloride
Concen: 3.667 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion: 84 Resp: 18255
Ion Ratio Lower Upper
84 100
49 99.4 89.1 133.7
51 38.3 26.6 39.8
86 62.7 53.4 80.0

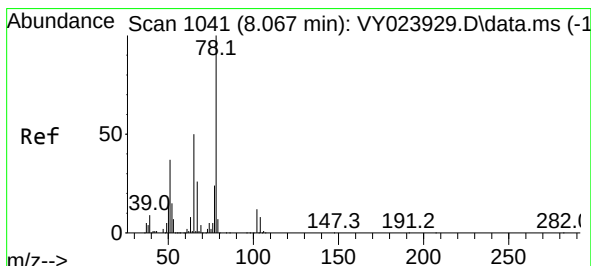
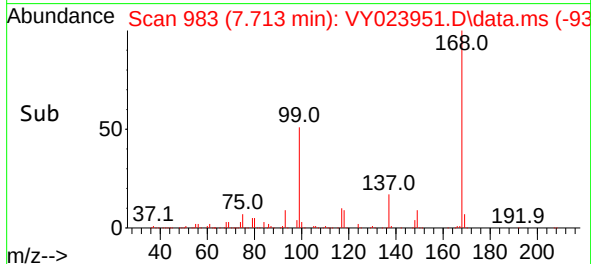
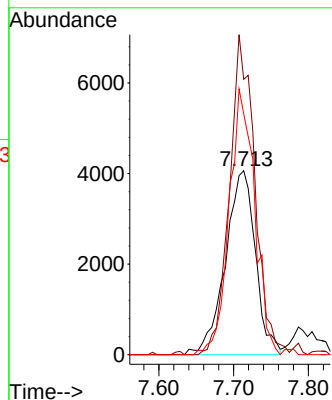
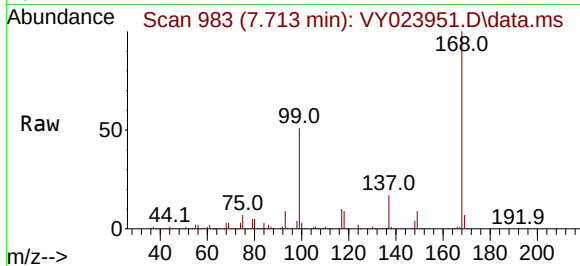




#31
Cyclohexane
Concen: 1.567 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

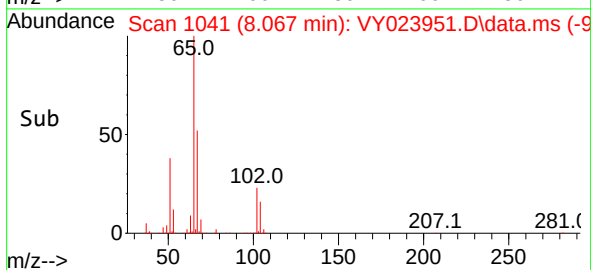
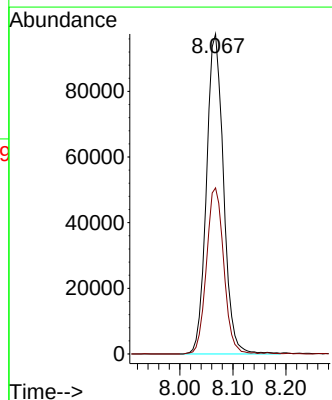
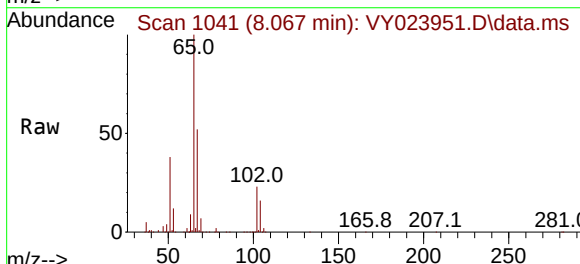
Instrument :
MSVOA_Y
ClientSampleId :
SW-10

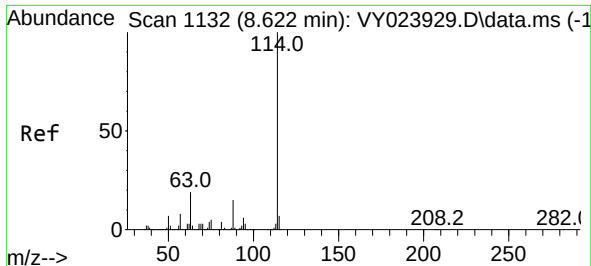
Tgt Ion: 56 Resp: 11373
Ion Ratio Lower Upper
56 100
69 147.7 29.1 43.7#
84 130.8 77.8 116.8#



#33
1,2-Dichloroethane-d4
Concen: 51.382 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion: 65 Resp: 217448
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.2

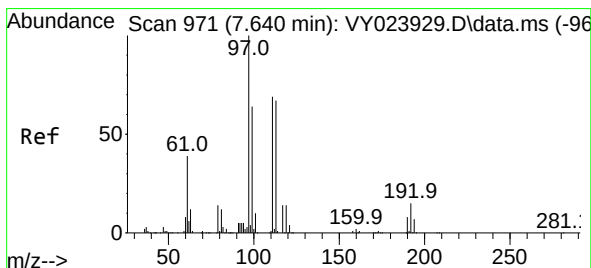
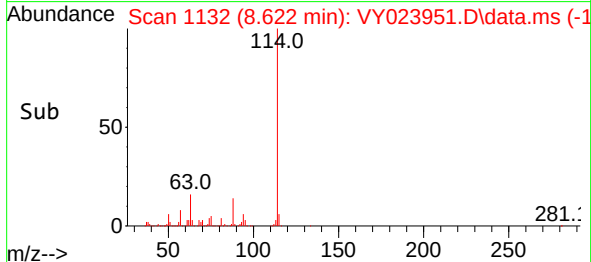
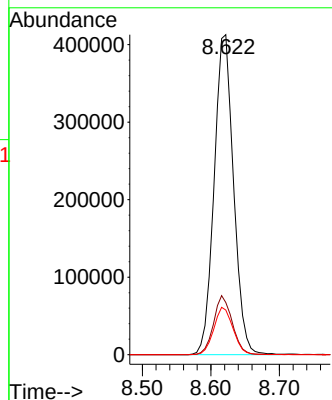
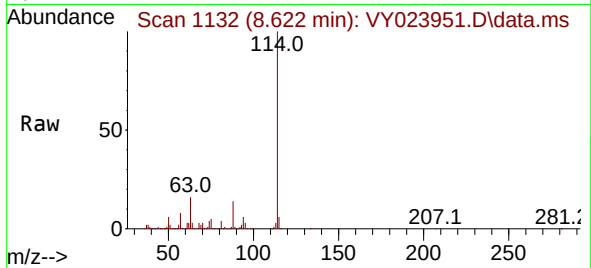




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

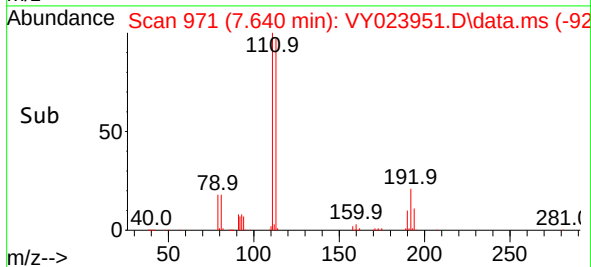
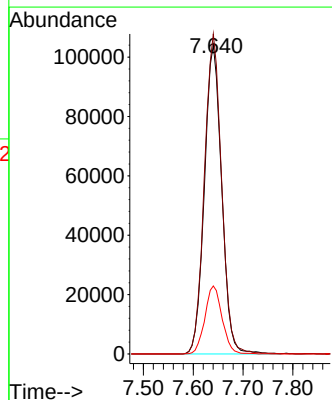
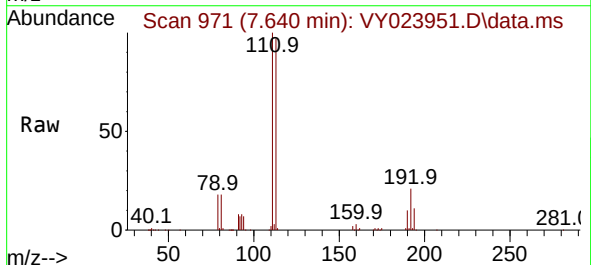
Instrument :
MSVOA_Y
ClientSampleId :
SW-10

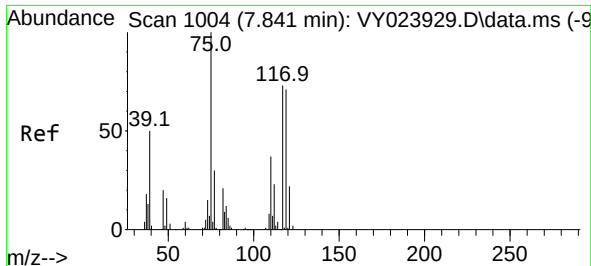
Tgt Ion:114 Resp: 811026
Ion Ratio Lower Upper
114 100
63 16.3 0.0 37.2
88 14.0 0.0 29.4



#35
Dibromofluoromethane
Concen: 47.156 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion:113 Resp: 250002
Ion Ratio Lower Upper
113 100
111 103.3 82.4 123.6
192 22.0 17.9 26.9





#36

1,1-Dichloropropene

Concen: 4.426 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY023951.D

Acq: 11 Dec 2025 13:44

Instrument :

MSVOA_Y

ClientSampleId :

SW-10

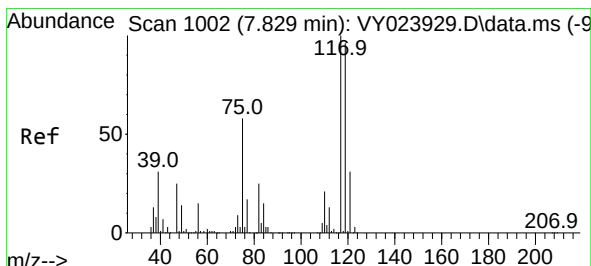
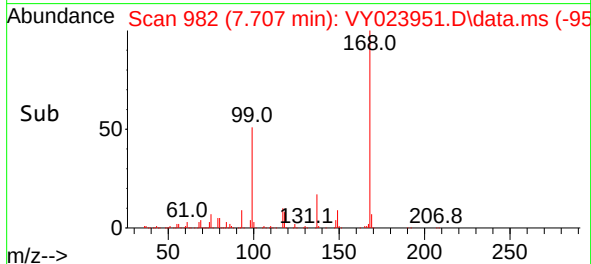
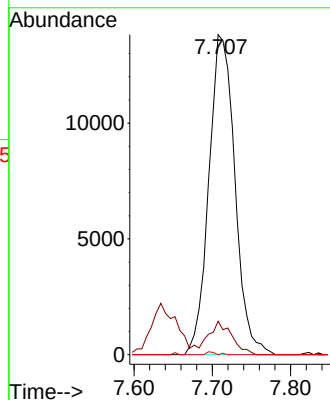
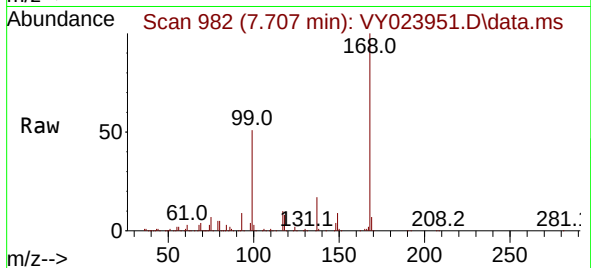
Tgt Ion: 75 Resp: 31948

Ion Ratio Lower Upper

75 100

110 9.1 19.2 57.6#

77 0.3 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.987 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.116 min

Lab File: VY023951.D

Acq: 11 Dec 2025 13:44

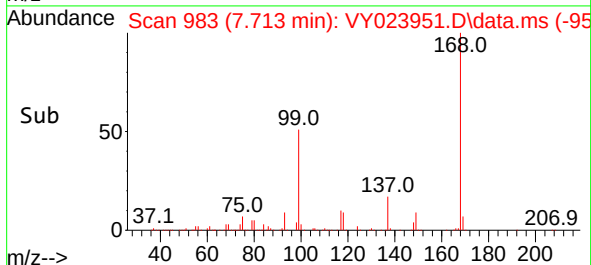
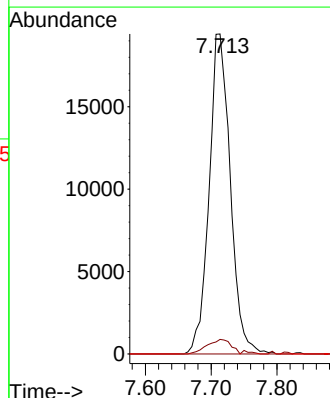
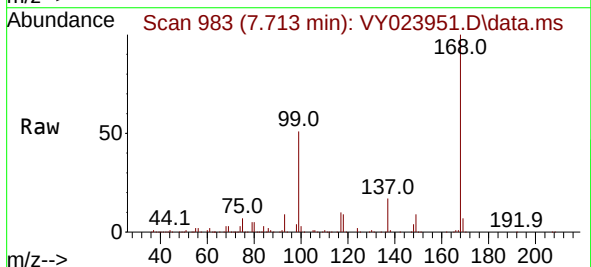
Tgt Ion: 117 Resp: 43633

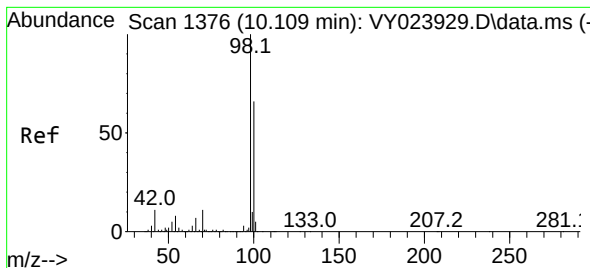
Ion Ratio Lower Upper

117 100

119 4.6 76.6 114.8#

121 0.0 24.8 37.2#

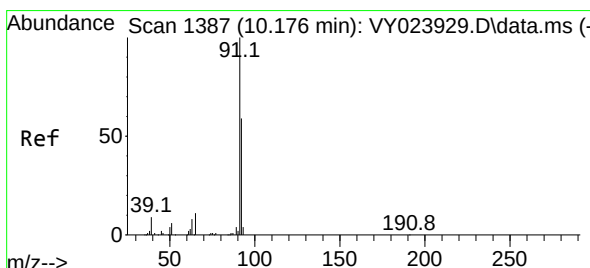
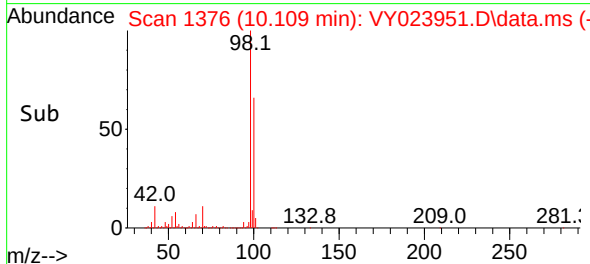
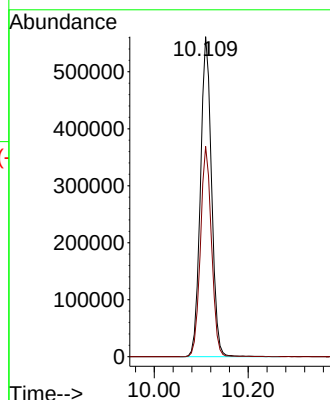
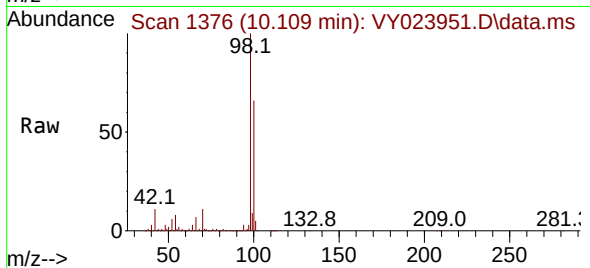




#50
Toluene-d8
Concen: 46.764 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

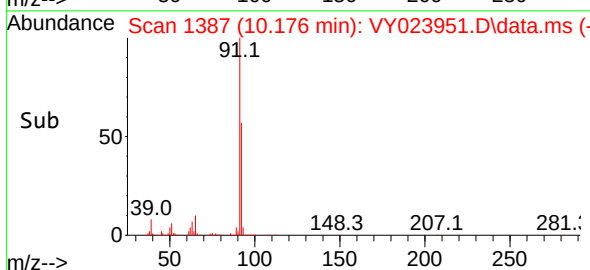
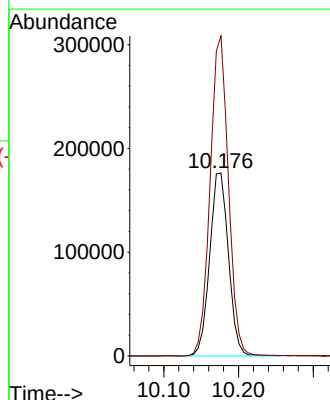
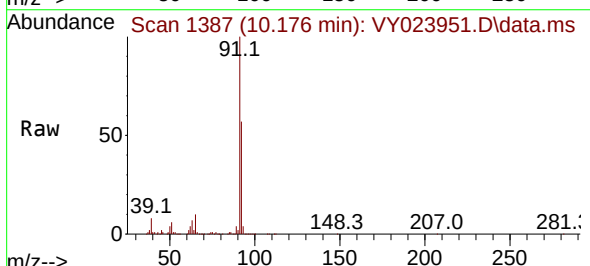
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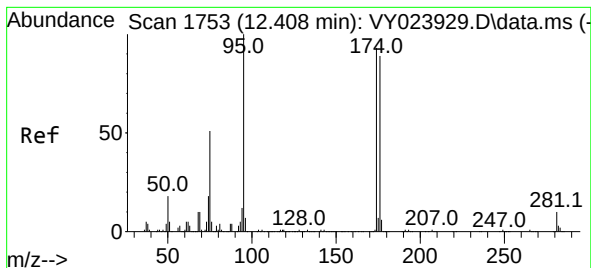
Tgt Ion: 98 Resp: 923039
Ion Ratio Lower Upper
98 100
100 65.5 52.8 79.2



#52
Toluene
Concen: 21.137 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion: 92 Resp: 307416
Ion Ratio Lower Upper
92 100
91 170.7 135.8 203.6

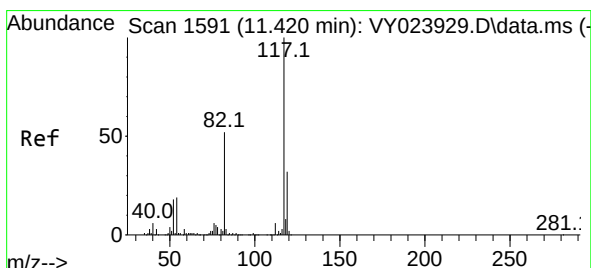
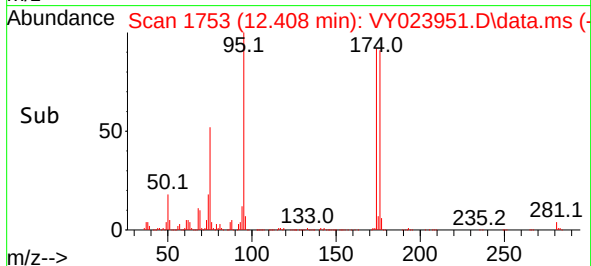
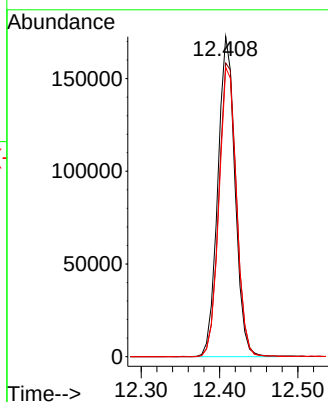
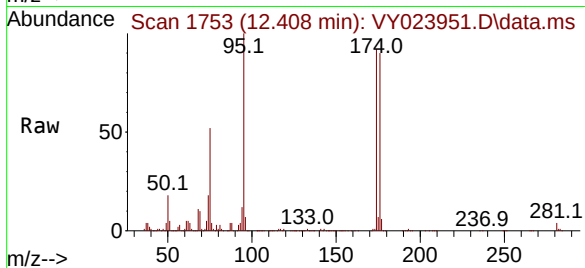




#62
4-Bromofluorobenzene
Concen: 40.036 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

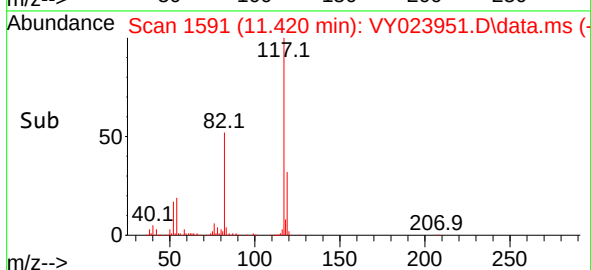
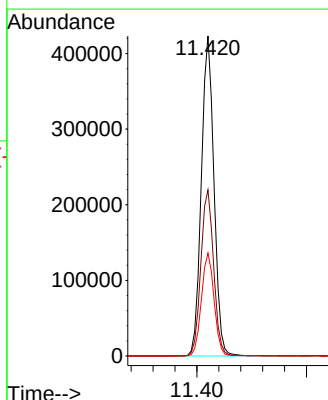
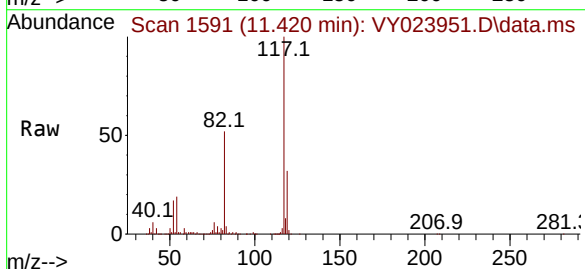
Instrument :
MSVOA_Y
ClientSampleId :
SW-10

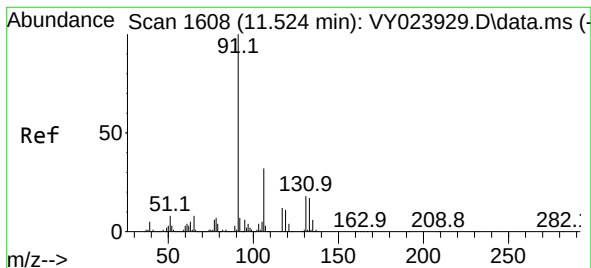
Tgt Ion: 95 Resp: 263911
Ion Ratio Lower Upper
95 100
174 94.0 0.0 187.4
176 91.7 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion: 117 Resp: 675906
Ion Ratio Lower Upper
117 100
82 51.9 41.4 62.2
119 32.1 25.5 38.3





#67

Ethyl Benzene

Concen: 11.437 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY023951.D

Acq: 11 Dec 2025 13:44

Instrument :

MSVOA_Y

ClientSampleId :

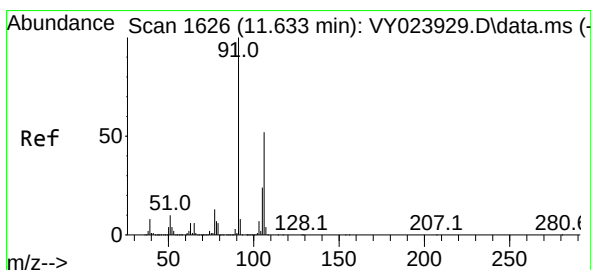
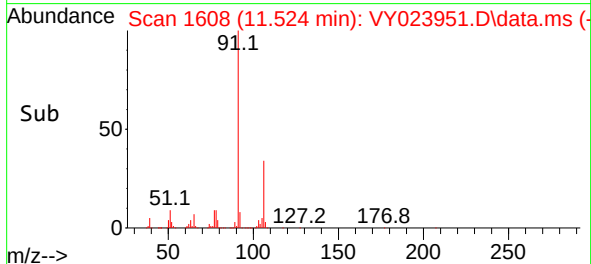
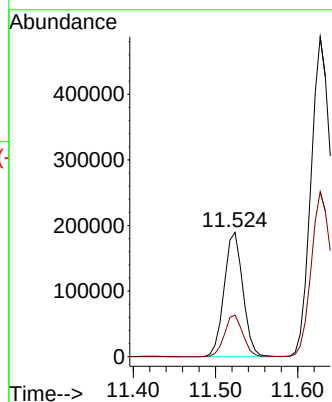
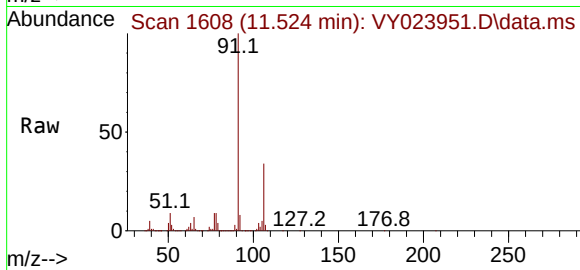
SW-10

Tgt Ion: 91 Resp: 300135

Ion Ratio Lower Upper

91 100

106 33.5 25.8 38.8



#68

m/p-Xylenes

Concen: 41.834 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY023951.D

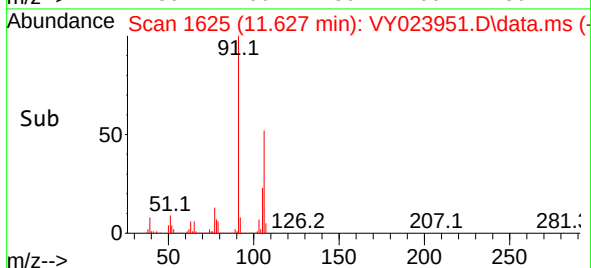
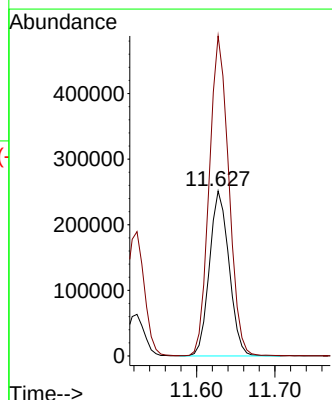
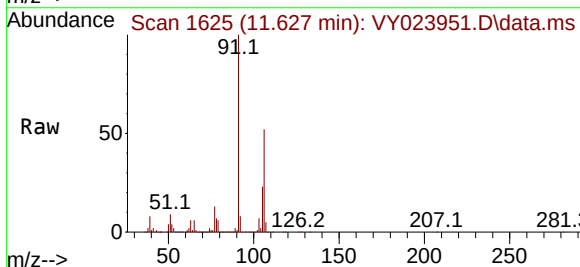
Acq: 11 Dec 2025 13:44

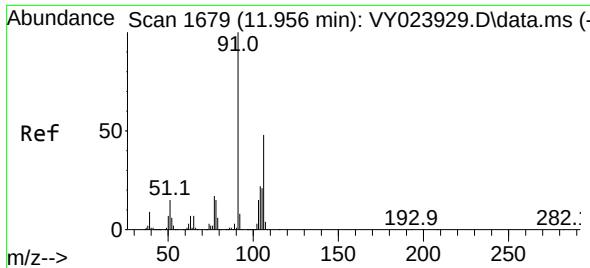
Tgt Ion:106 Resp: 435795

Ion Ratio Lower Upper

106 100

91 194.0 155.0 232.6

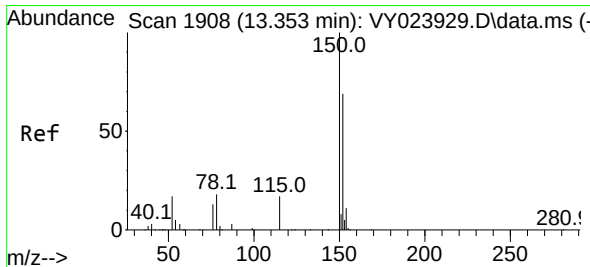
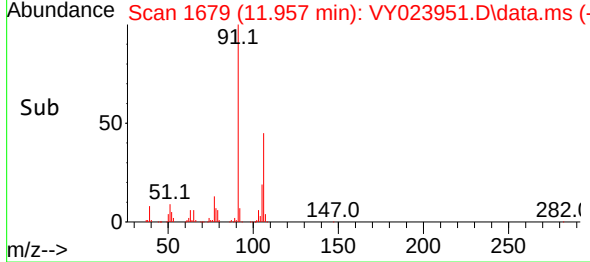
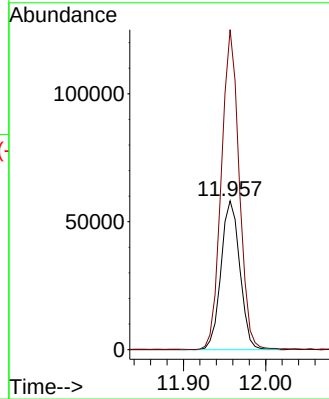
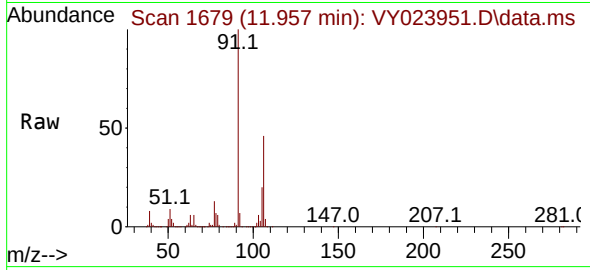




#69
o-Xylene
Concen: 9.501 ug/l
RT: 11.957 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

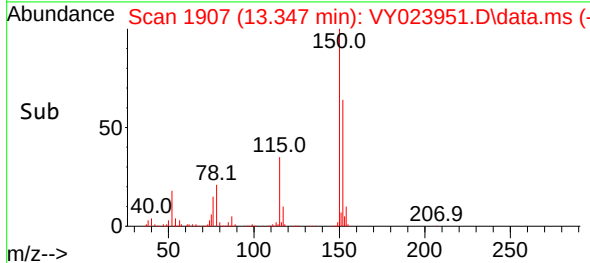
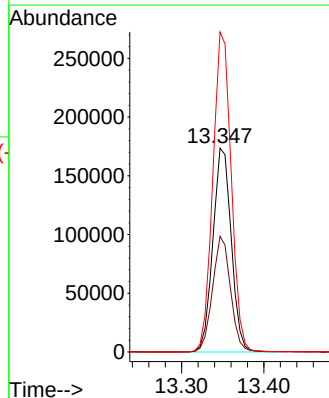
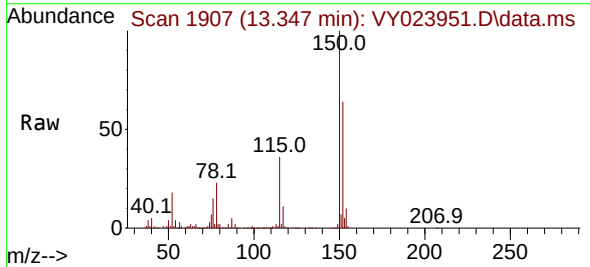
Instrument :
MSVOA_Y
ClientSampleId :
SW-10

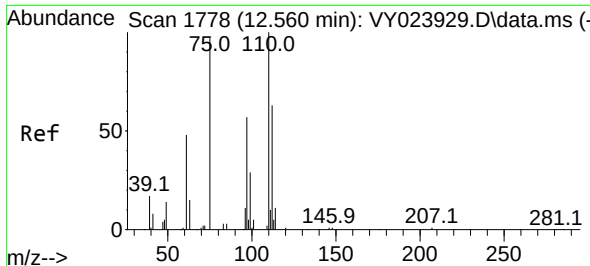
Tgt Ion:106 Resp: 92584
Ion Ratio Lower Upper
106 100
91 204.3 102.1 306.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion:152 Resp: 269387
Ion Ratio Lower Upper
152 100
115 55.9 27.3 81.9
150 157.0 0.0 347.6

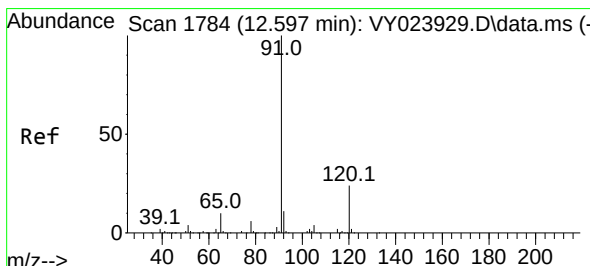
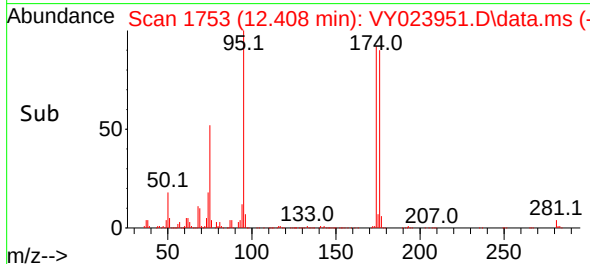
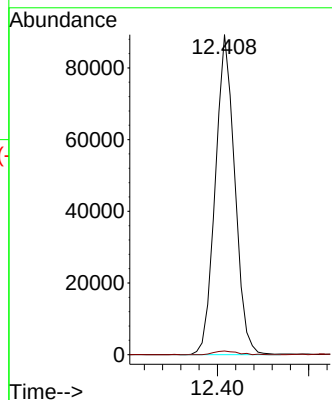
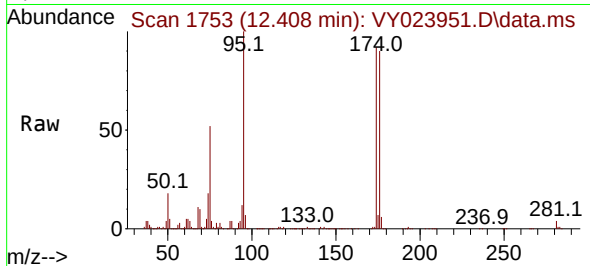




#76
1,2,3-Trichloropropane
Concen: 57.917 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

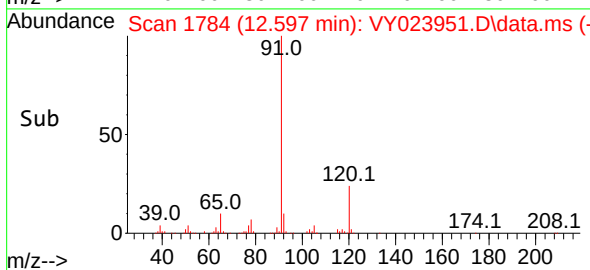
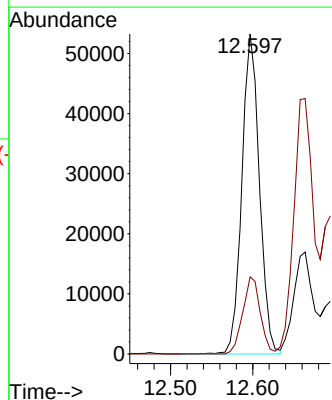
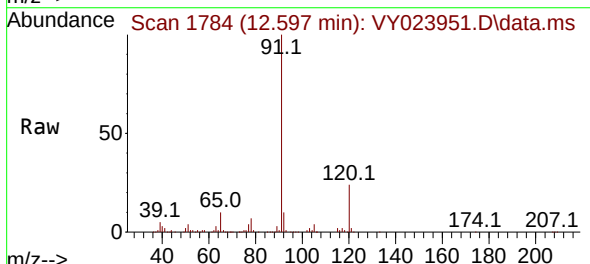
Instrument :
MSVOA_Y
ClientSampleId :
SW-10

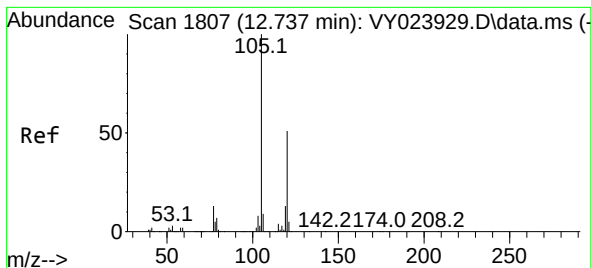
Tgt Ion: 75 Resp: 131978
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#78
n-propylbenzene
Concen: 3.443 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion: 91 Resp: 78857
Ion Ratio Lower Upper
91 100
120 24.0 12.0 36.0





#80

1,3,5-Trimethylbenzene

Concen: 3.453 ug/l

RT: 12.737 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023951.D

Acq: 11 Dec 2025 13:44

Instrument :

MSVOA_Y

ClientSampleId :

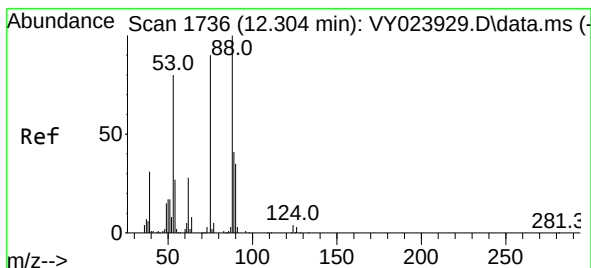
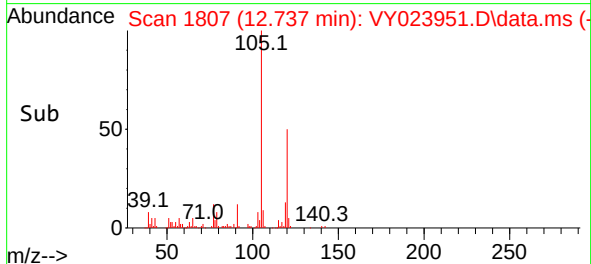
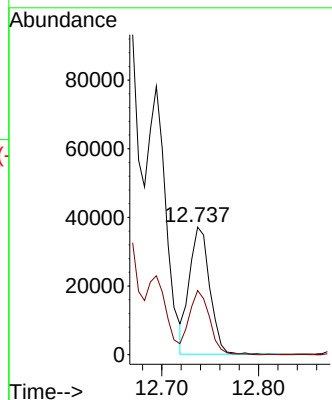
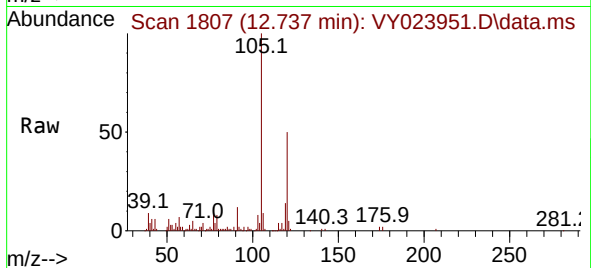
SW-10

Tgt Ion:105 Resp: 54228

Ion Ratio Lower Upper

105 100

120 50.3 25.7 77.1



#81

trans-1,4-Dichloro-2-butene

Concen: 131.834 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY023951.D

Acq: 11 Dec 2025 13:44

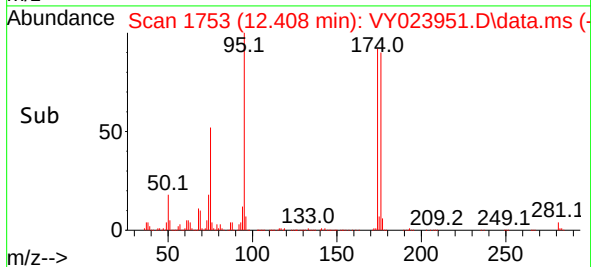
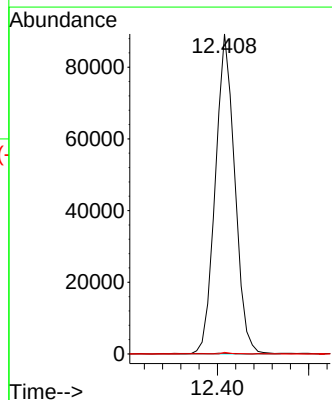
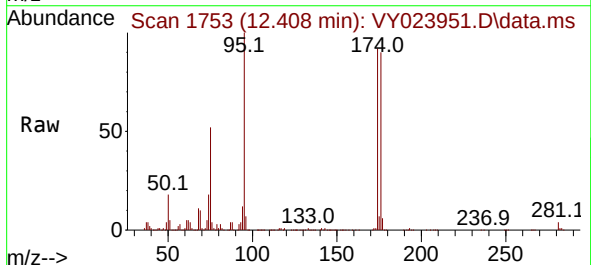
Tgt Ion: 75 Resp: 131978

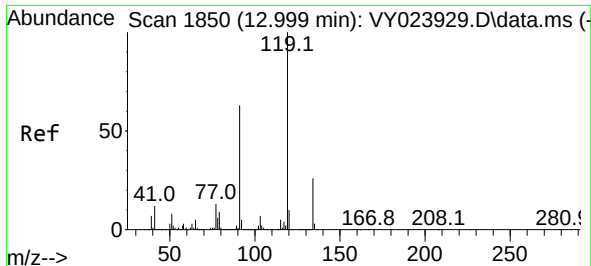
Ion Ratio Lower Upper

75 100

53 0.2 73.4 110.0#

89 0.2 38.9 58.3#

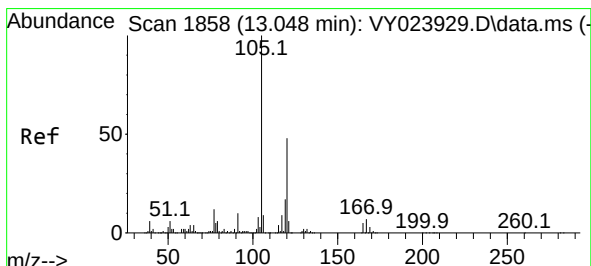
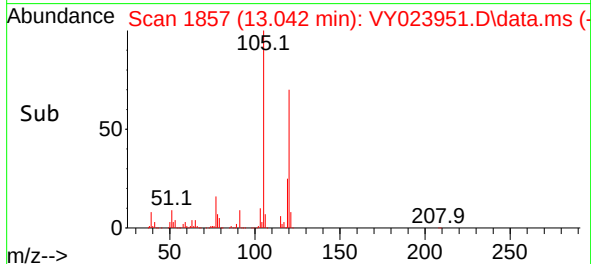
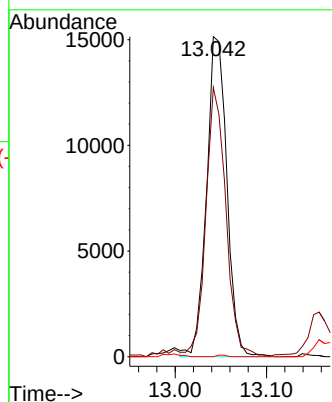
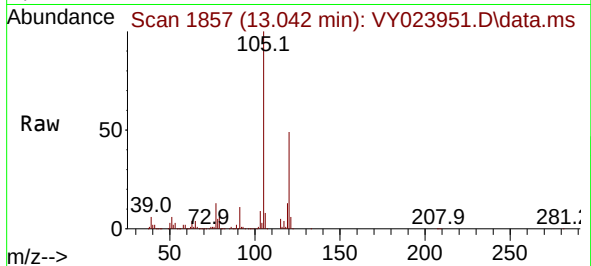




#83
tert-Butylbenzene
Concen: 1.610 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.043 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

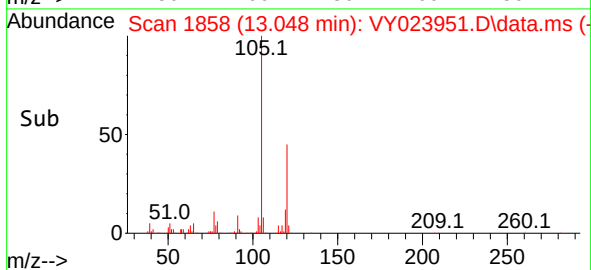
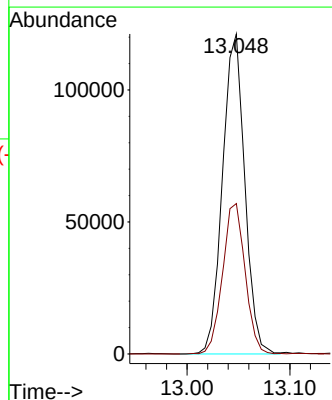
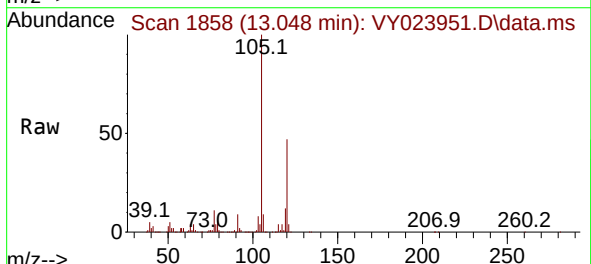
Instrument :
MSVOA_Y
ClientSampleId :
SW-10

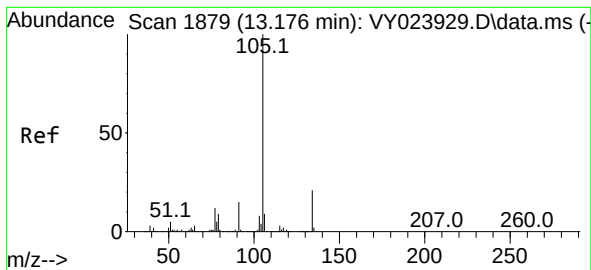
Tgt Ion:119 Resp: 23363
Ion Ratio Lower Upper
119 100
91 84.9 31.6 94.7
134 0.2 13.4 40.1#



#84
1,2,4-Trimethylbenzene
Concen: 11.702 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.000 min
Lab File: VY023951.D
Acq: 11 Dec 2025 13:44

Tgt Ion:105 Resp: 182070
Ion Ratio Lower Upper
105 100
120 47.6 23.4 70.3





#85
 sec-Butylbenzene
 Concen: 8.601 ug/l
 RT: 13.048 min Scan# 11
 Delta R.T. -0.128 min
 Lab File: VY023951.D
 Acq: 11 Dec 2025 13:44

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-10

Tgt Ion:105 Resp: 182070
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.6 31.8#

