

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121125\
 Data File : VY023955.D
 Acq On : 11 Dec 2025 15:18
 Operator : SY/MD
 Sample : Q3809-11
 Misc : 3.52g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-8

Quant Time: Dec 12 03:24:37 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)

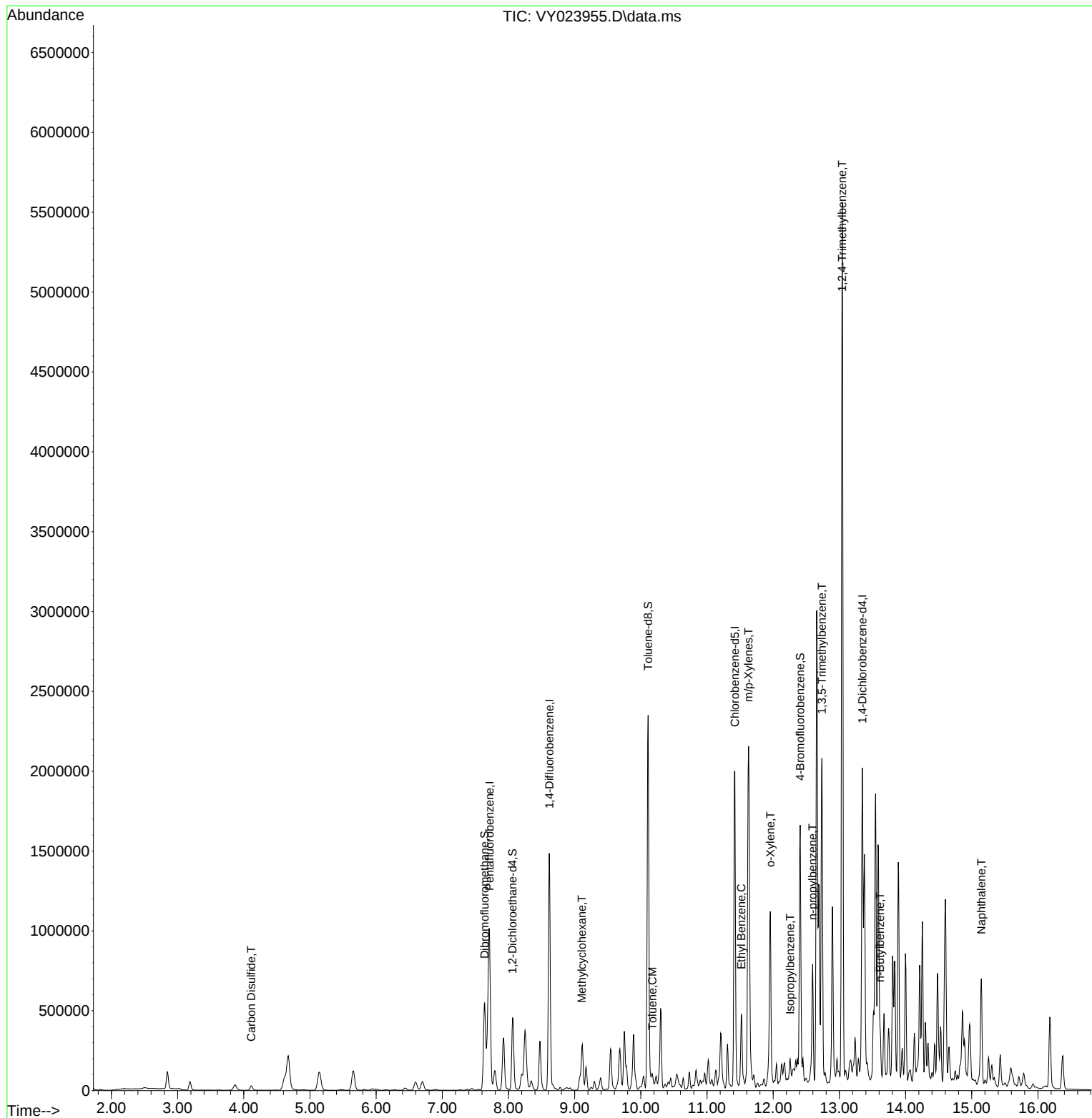
Internal Standards						
1) Pentafluorobenzene	7.713	168	749775	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1253186	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1109443	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	493913	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	362314	54.655	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.320%			
35) Dibromofluoromethane	7.640	113	391199	47.754	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.500%			
50) Toluene-d8	10.109	98	1470410	48.211	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.420%			
62) 4-Bromofluorobenzene	12.408	95	471808	46.322	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.640%			
Target Compounds						Qvalue
17) Carbon Disulfide	4.110	76	56868	3.147	ug/l	95
39) Methylcyclohexane	9.109	83	83449	5.601	ug/l #	88
52) Toluene	10.176	92	37559	1.671	ug/l	96
67) Ethyl Benzene	11.517	91	299086	6.944	ug/l	100
68) m/p-Xylenes	11.627	106	619146	36.210	ug/l	100
69) o-Xylene	11.956	106	289199	18.080	ug/l	100
73) Isopropylbenzene	12.255	105	87571	2.426	ug/l	99
78) n-propylbenzene	12.597	91	540785	12.877	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	835960	29.030	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	2864827	100.425	ug/l	100
89) n-Butylbenzene	13.615	91	136097	4.735	ug/l #	68
95) Naphthalene	15.145	128	506837	37.009	ug/l	99

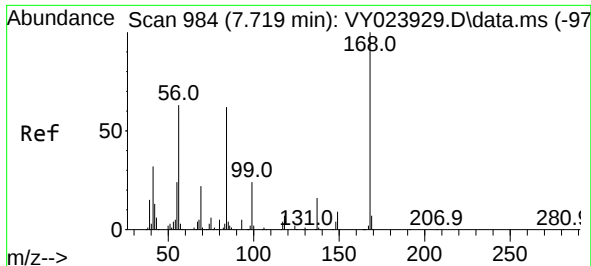
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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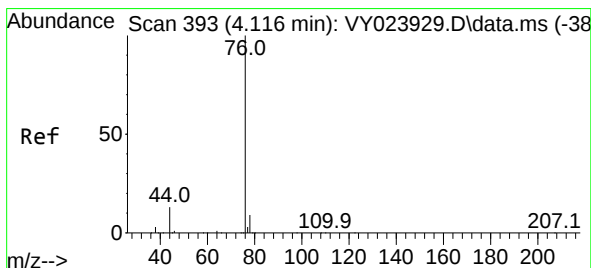
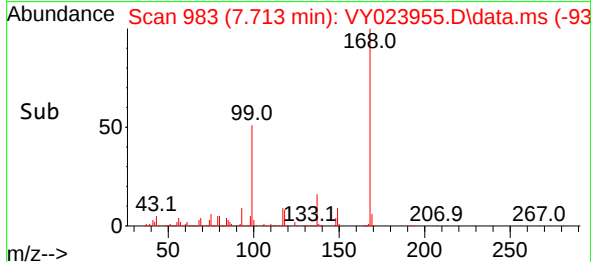
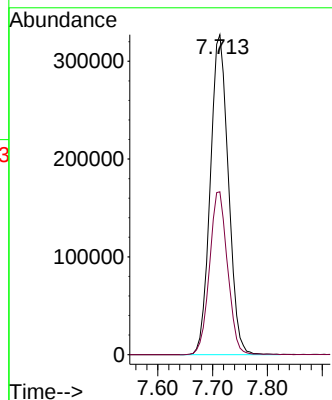
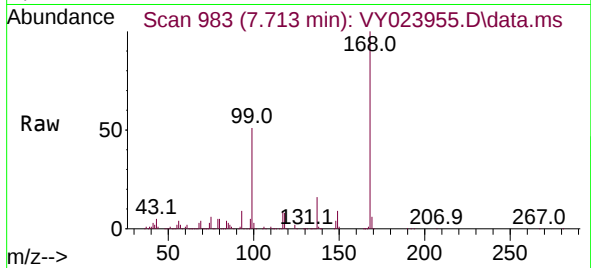




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 984
Delta R.T. -0.006 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

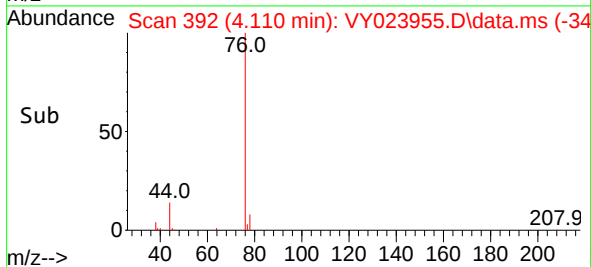
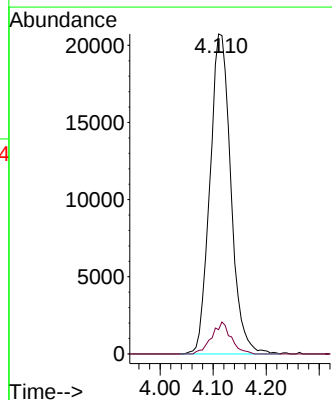
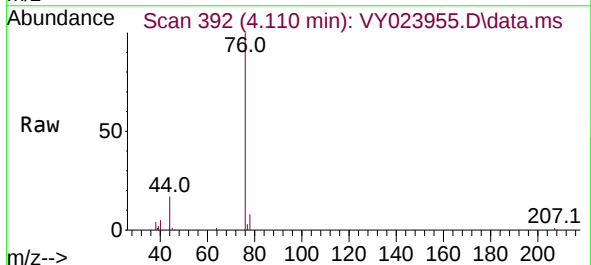
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

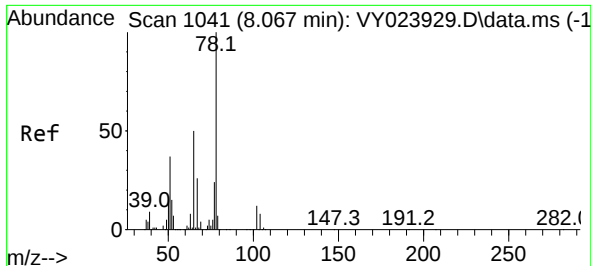
Tgt Ion:168 Resp: 749775
Ion Ratio Lower Upper
168 100
99 50.9 38.9 58.3



#17
Carbon Disulfide
Concen: 3.147 ug/l
RT: 4.110 min Scan# 392
Delta R.T. -0.006 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

Tgt Ion: 76 Resp: 56868
Ion Ratio Lower Upper
76 100
78 7.6 7.4 11.2





#33

1,2-Dichloroethane-d4

Concen: 54.655 ug/l

RT: 8.061 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

Instrument :

MSVOA_Y

ClientSampleId :

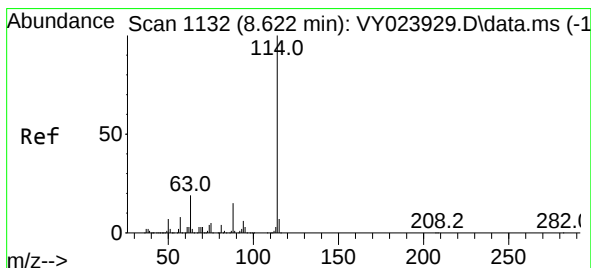
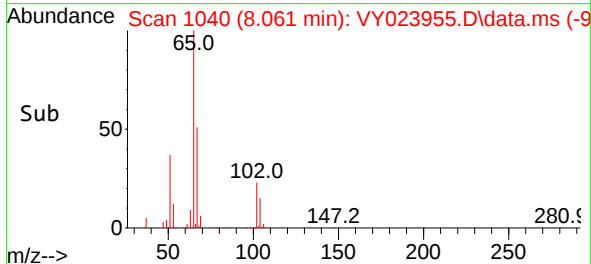
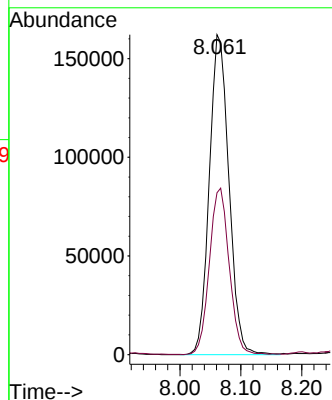
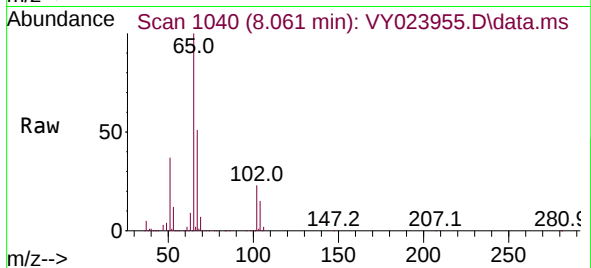
SW-8

Tgt Ion: 65 Resp: 362314

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

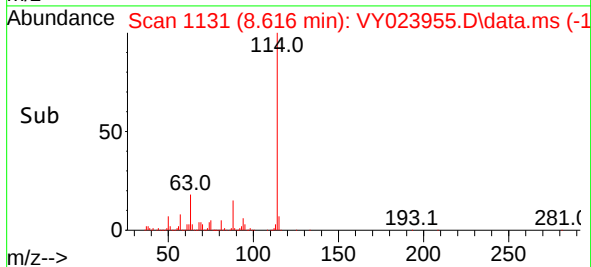
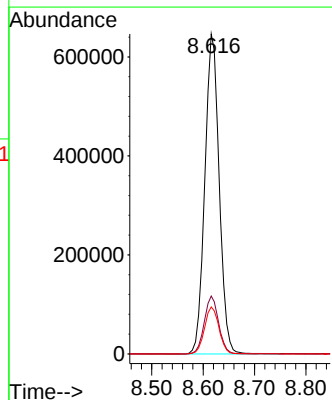
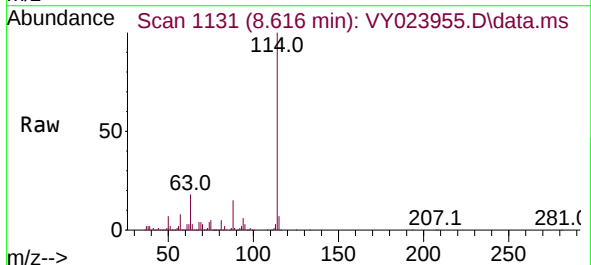
Tgt Ion: 114 Resp: 1253186

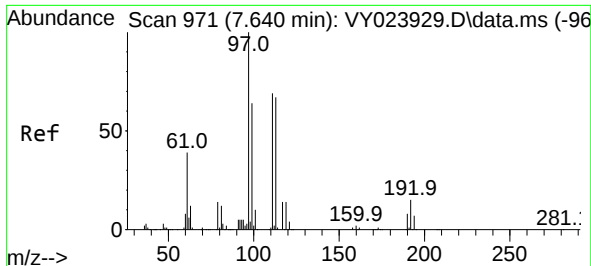
Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.2

88 14.7 0.0 29.4

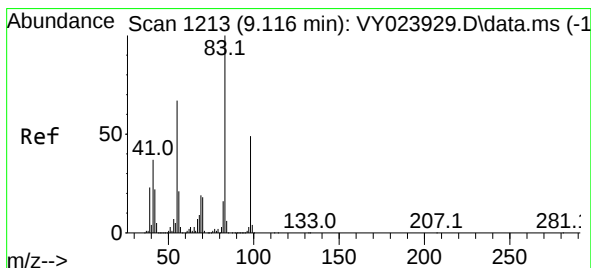
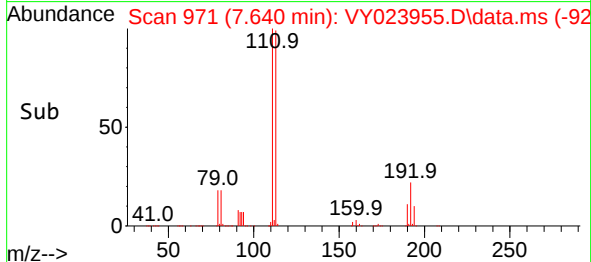
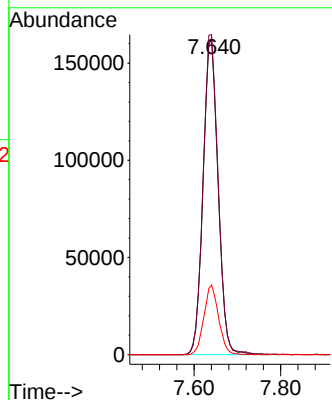
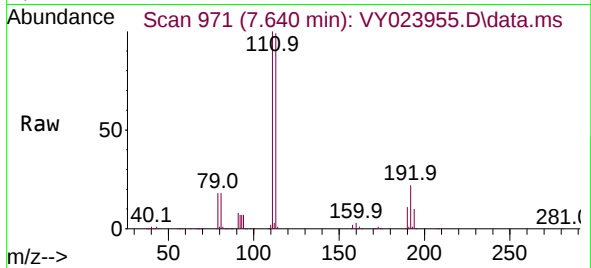




#35
Dibromofluoromethane
Concen: 47.754 ug/l
RT: 7.640 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

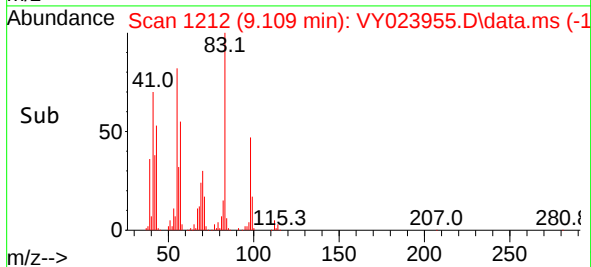
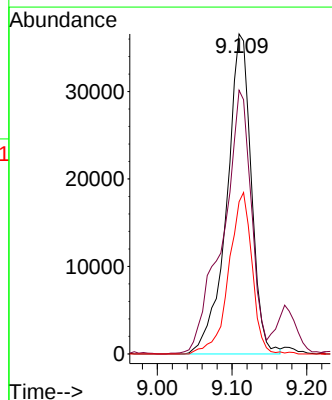
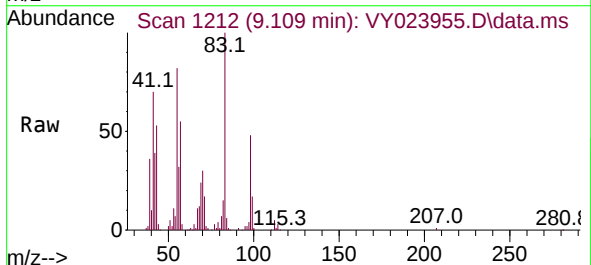
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

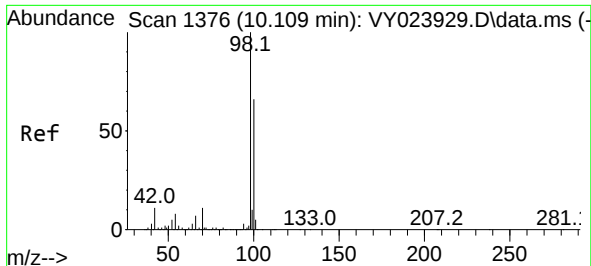
Tgt Ion:113 Resp: 391199
Ion Ratio Lower Upper
113 100
111 101.6 82.4 123.6
192 21.5 17.9 26.9



#39
Methylcyclohexane
Concen: 5.601 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

Tgt Ion: 83 Resp: 83449
Ion Ratio Lower Upper
83 100
55 82.0 53.4 80.0#
98 47.5 39.2 58.8

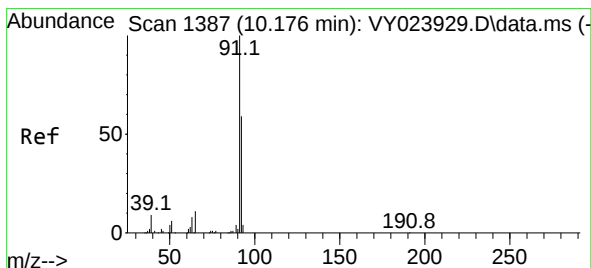
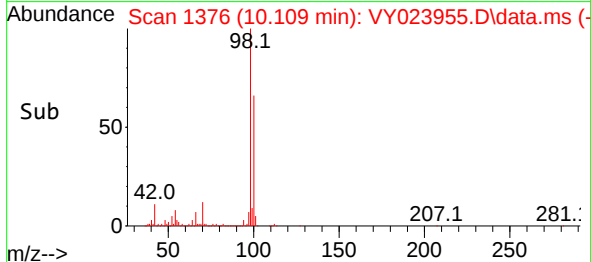
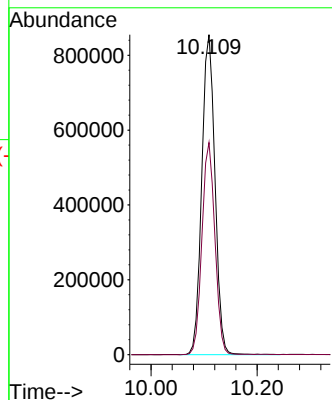
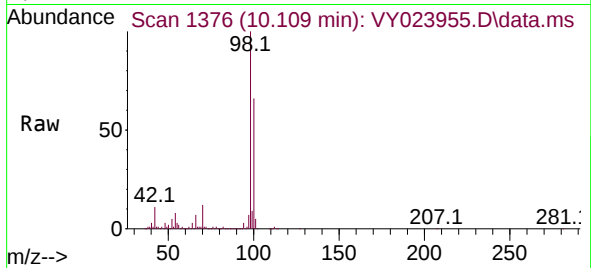




#50
Toluene-d8
Concen: 48.211 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

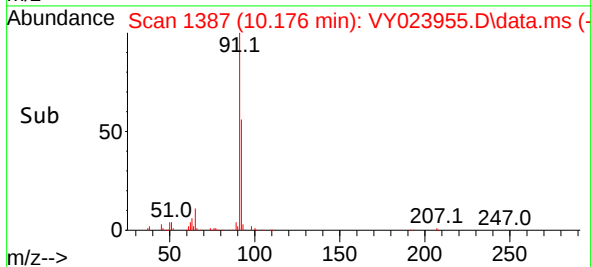
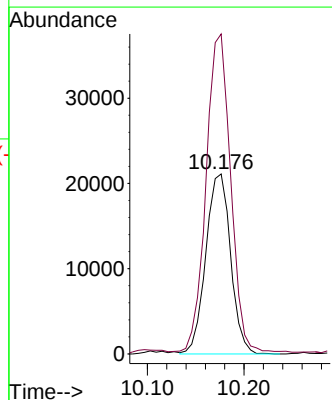
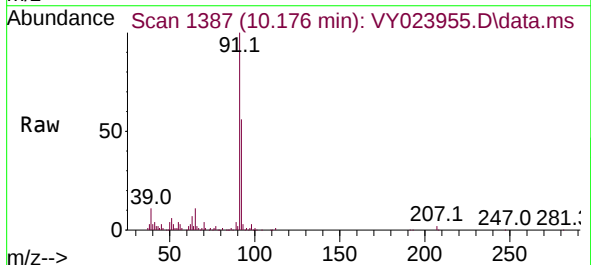
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

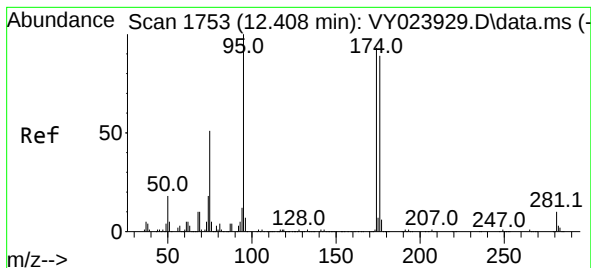
Tgt Ion: 98 Resp: 1470410
Ion Ratio Lower Upper
98 100
100 65.1 52.8 79.2



#52
Toluene
Concen: 1.671 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

Tgt Ion: 92 Resp: 37559
Ion Ratio Lower Upper
92 100
91 175.4 135.8 203.6

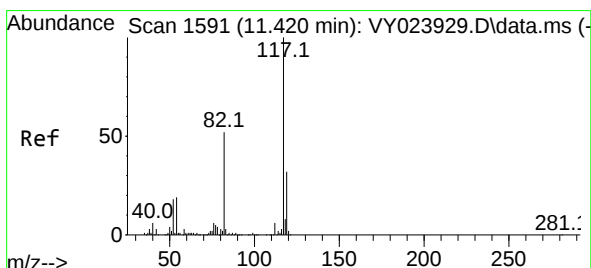
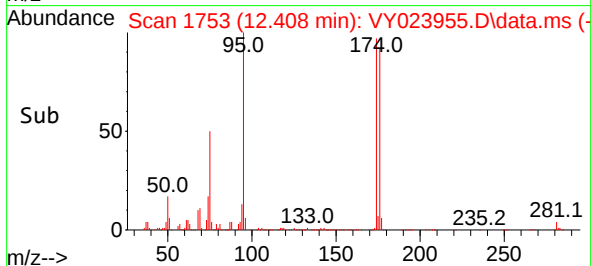
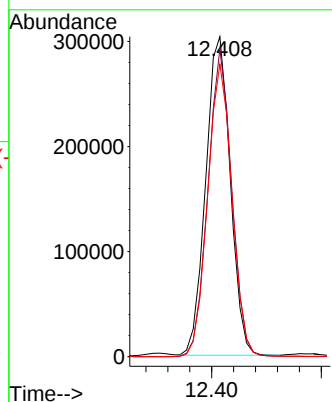
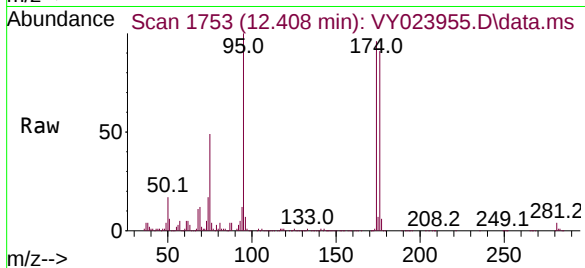




#62
4-Bromofluorobenzene
Concen: 46.322 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

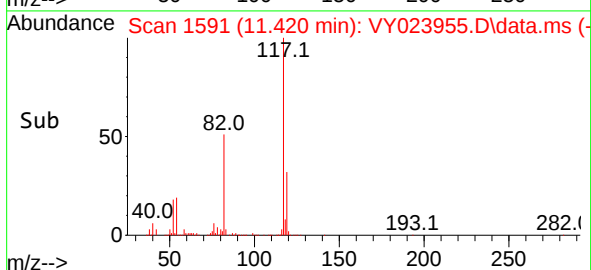
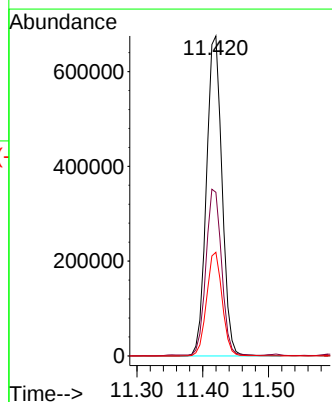
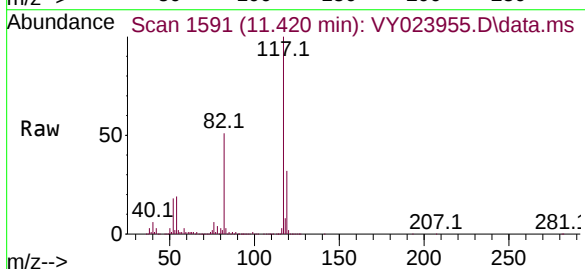
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ClientSampleId :
SW-8

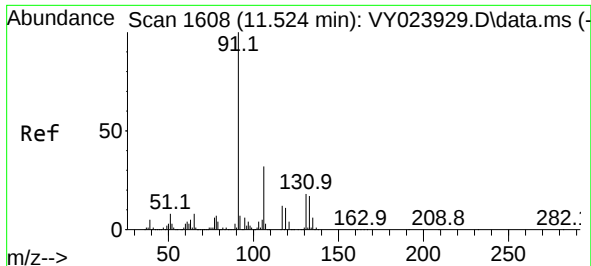
Tgt Ion: 95 Resp: 471808
Ion Ratio Lower Upper
95 100
174 93.4 0.0 187.4
176 90.8 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

Tgt Ion: 117 Resp: 1109443
Ion Ratio Lower Upper
117 100
82 50.9 41.4 62.2
119 32.4 25.5 38.3





#67

Ethyl Benzene

Concen: 6.944 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

Instrument :

MSVOA_Y

ClientSampleId :

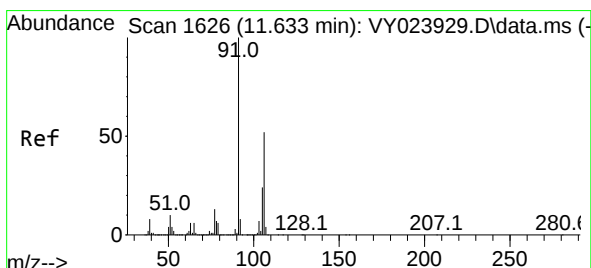
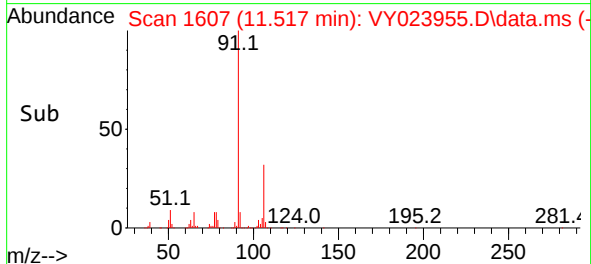
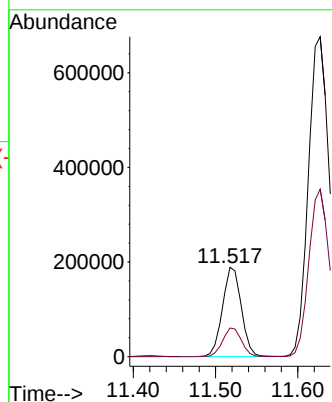
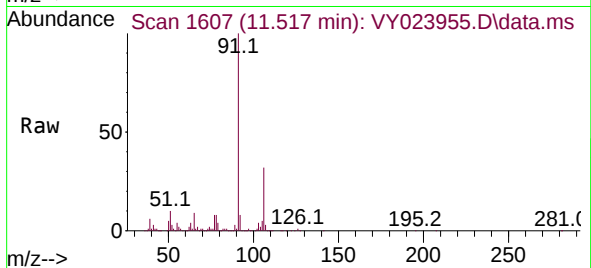
SW-8

Tgt Ion: 91 Resp: 299086

Ion Ratio Lower Upper

91 100

106 32.1 25.8 38.8



#68

m/p-Xylenes

Concen: 36.210 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY023955.D

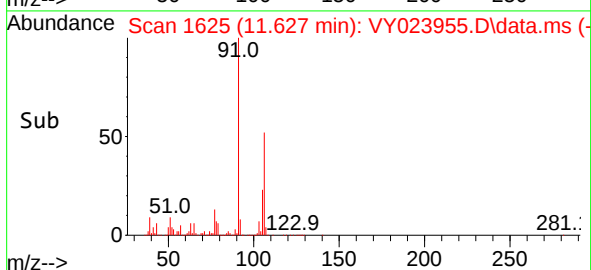
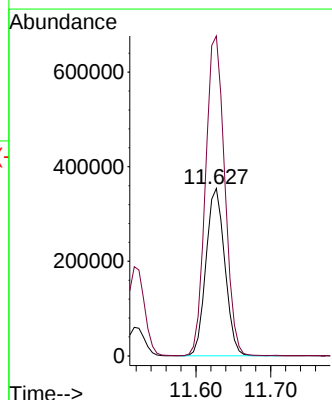
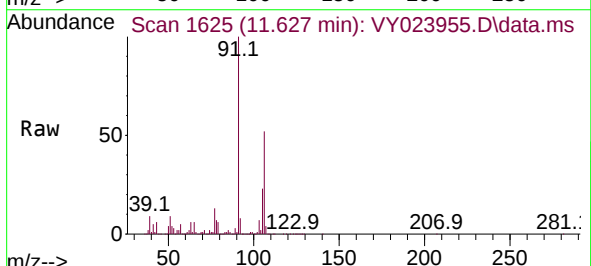
Acq: 11 Dec 2025 15:18

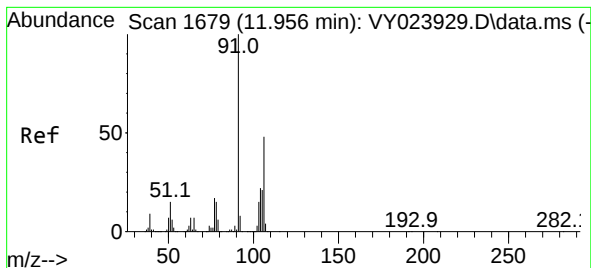
Tgt Ion:106 Resp: 619146

Ion Ratio Lower Upper

106 100

91 194.3 155.0 232.6





#69

o-Xylene

Concen: 18.080 ug/l

RT: 11.956 min Scan# 1679

Delta R.T. -0.000 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

Instrument :

MSVOA_Y

ClientSampleId :

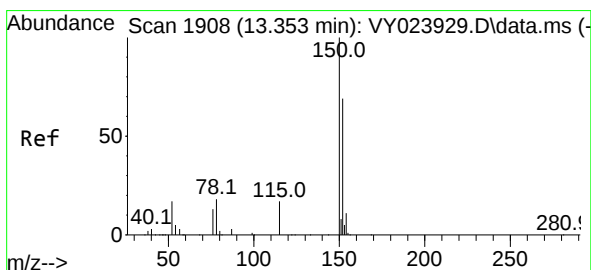
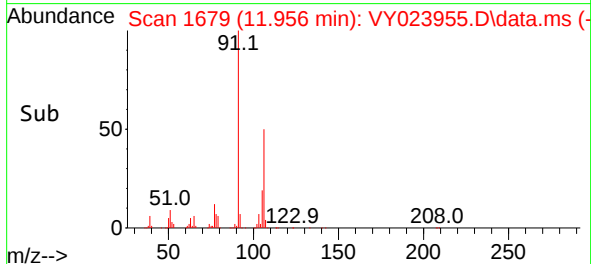
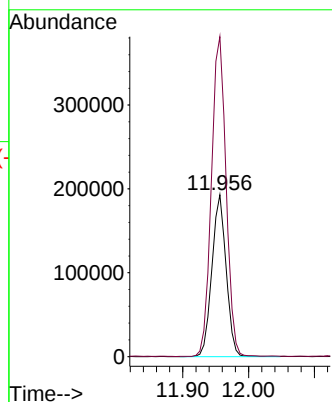
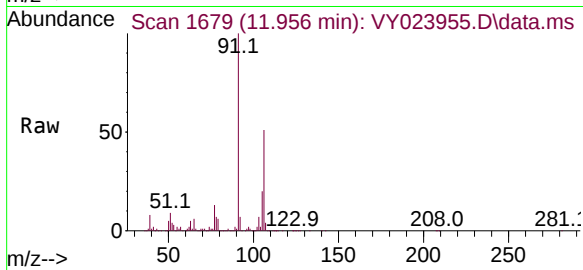
SW-8

Tgt Ion:106 Resp: 289199

Ion Ratio Lower Upper

106 100

91 203.9 102.1 306.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

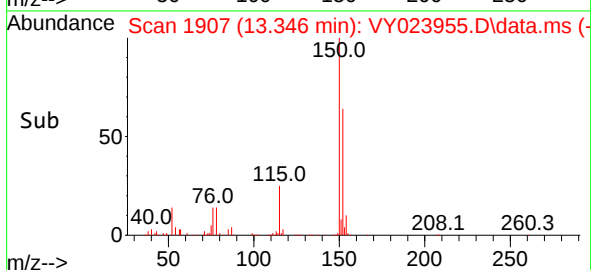
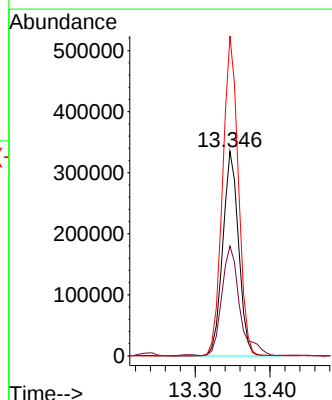
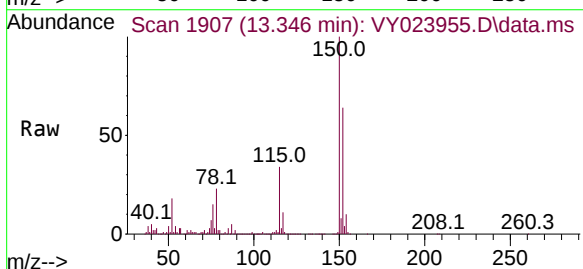
Tgt Ion:152 Resp: 493913

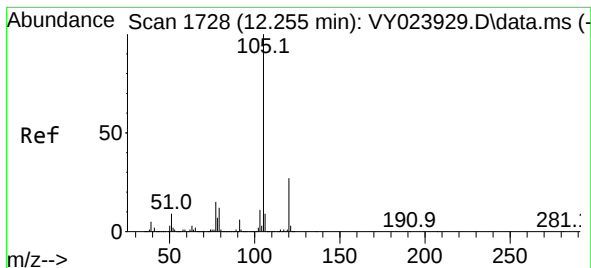
Ion Ratio Lower Upper

152 100

115 60.3 27.3 81.9

150 155.9 0.0 347.6





#73

Isopropylbenzene

Concen: 2.426 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.000 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

Instrument :

MSVOA_Y

ClientSampleId :

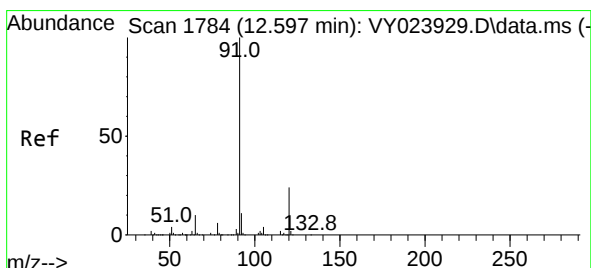
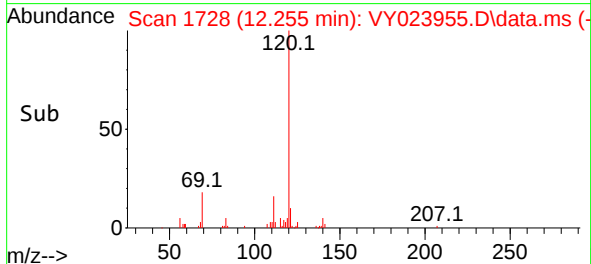
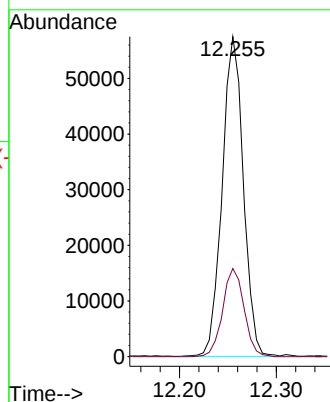
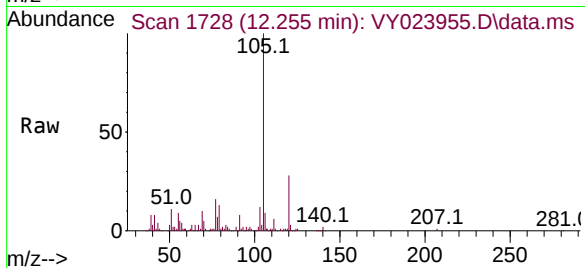
SW-8

Tgt Ion:105 Resp: 87571

Ion Ratio Lower Upper

105 100

120 27.7 13.7 41.0



#78

n-propylbenzene

Concen: 12.877 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY023955.D

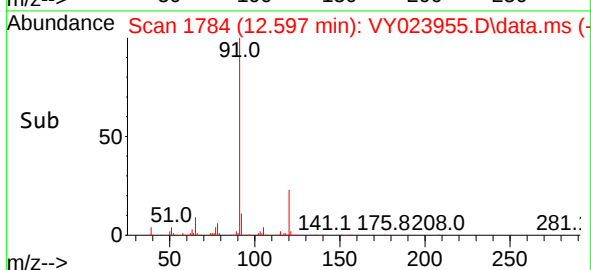
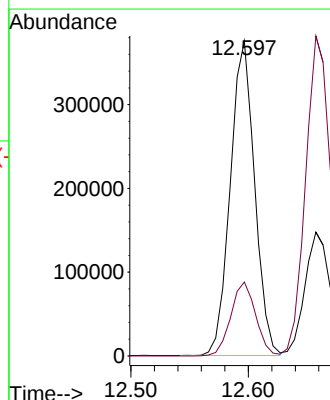
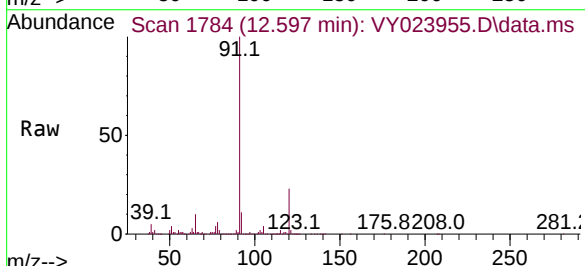
Acq: 11 Dec 2025 15:18

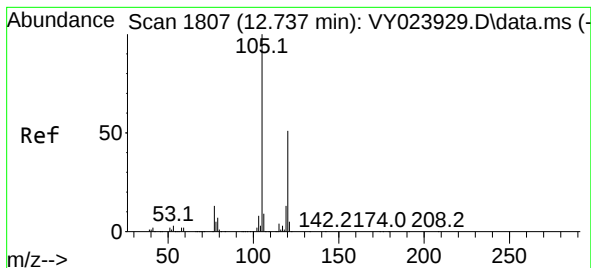
Tgt Ion: 91 Resp: 540785

Ion Ratio Lower Upper

91 100

120 23.9 12.0 36.0





#80

1,3,5-Trimethylbenzene

Concen: 29.030 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY023955.D

Acq: 11 Dec 2025 15:18

Instrument :

MSVOA_Y

ClientSampleId :

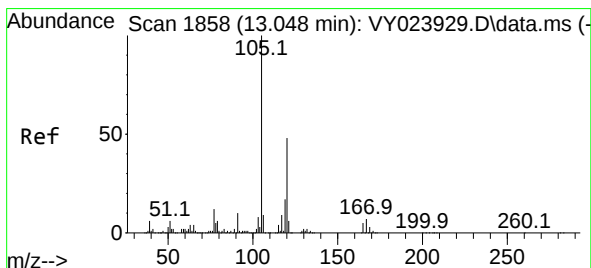
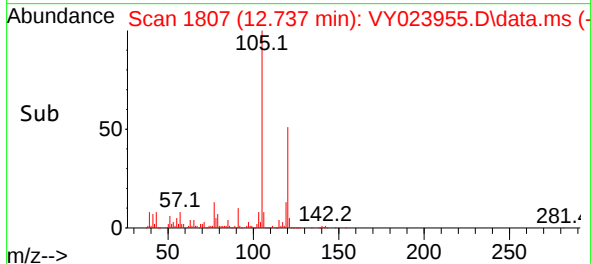
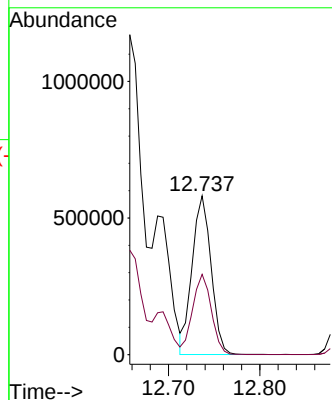
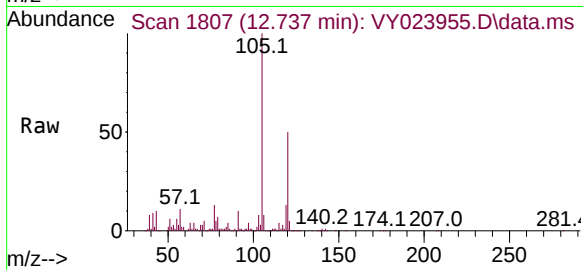
SW-8

Tgt Ion:105 Resp: 835960

Ion Ratio Lower Upper

105 100

120 50.1 25.7 77.1



#84

1,2,4-Trimethylbenzene

Concen: 100.425 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY023955.D

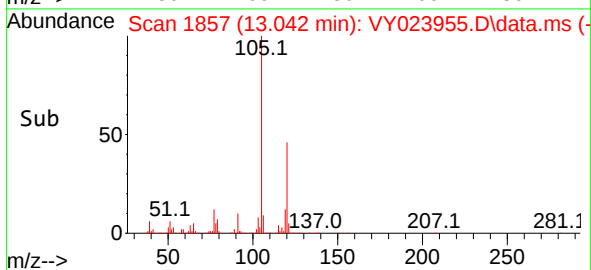
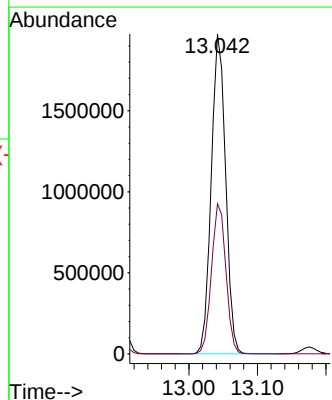
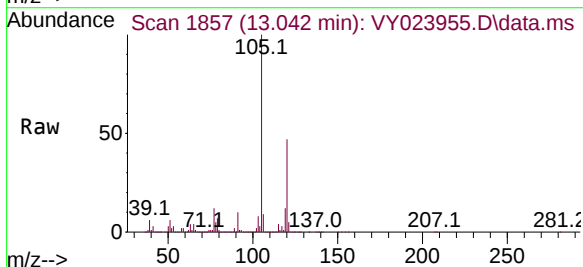
Acq: 11 Dec 2025 15:18

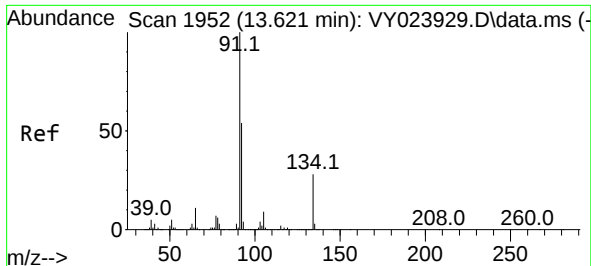
Tgt Ion:105 Resp: 2864827

Ion Ratio Lower Upper

105 100

120 47.2 23.4 70.3

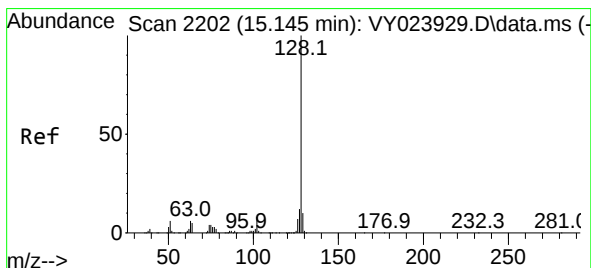
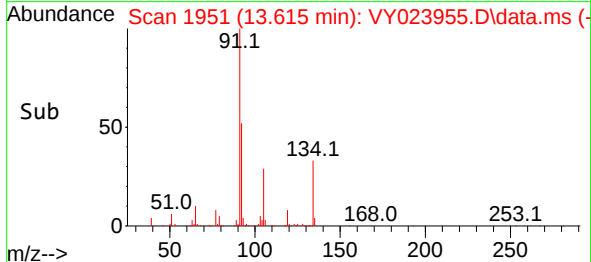
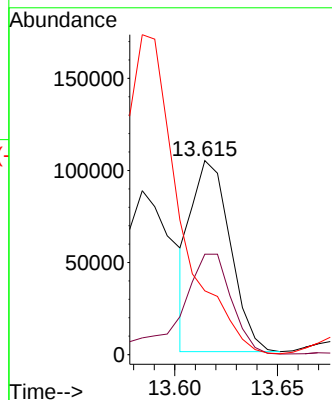
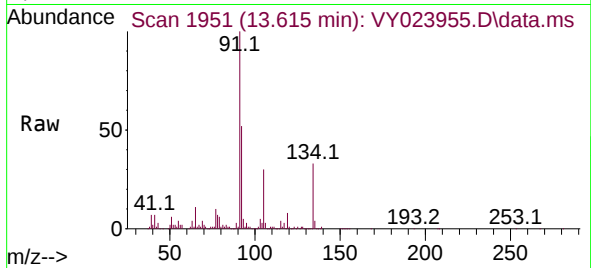




#89
n-Butylbenzene
Concen: 4.735 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

Instrument :
MSVOA_Y
ClientSampleId :
SW-8

Tgt Ion: 91 Resp: 136097
Ion Ratio Lower Upper
91 100
92 68.4 26.9 80.6
134 0.0 13.9 41.6#



#95
Naphthalene
Concen: 37.009 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY023955.D
Acq: 11 Dec 2025 15:18

Tgt Ion: 128 Resp: 506837
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.1 8.6 12.8

