

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101025\
 Data File : VY023432.D
 Acq On : 10 Oct 2025 12:29
 Operator : SY/MD
 Sample : Q3315-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11989

Quant Time: Oct 10 15:37:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

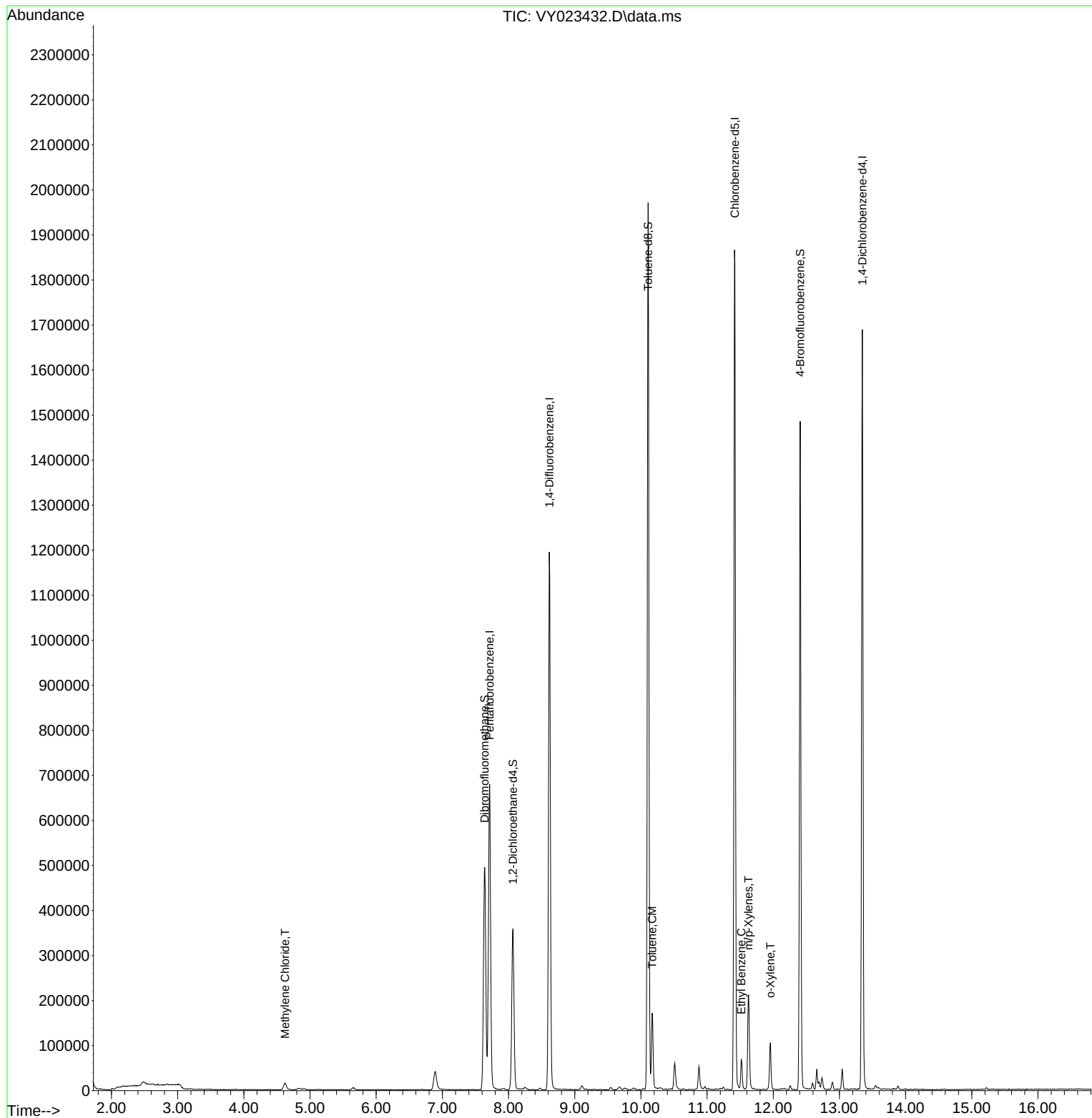
Internal Standards						
1) Pentafluorobenzene	7.713	168	554278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1081021	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1064215	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	448266	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	283728	61.215	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 122.420%			
35) Dibromofluoromethane	7.640	113	359211	54.079	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.160%			
50) Toluene-d8	10.109	98	1304884	52.751	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.500%			
62) 4-Bromofluorobenzene	12.408	95	423073	51.804	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.600%			
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.622	84	11545	1.935	ug/l #	83
52) Toluene	10.170	92	71643	3.962	ug/l	99
67) Ethyl Benzene	11.518	91	44605	1.191	ug/l	99
68) m/p-Xylenes	11.627	106	70574	4.696	ug/l	99
69) o-Xylene	11.957	106	29519	2.094	ug/l	98

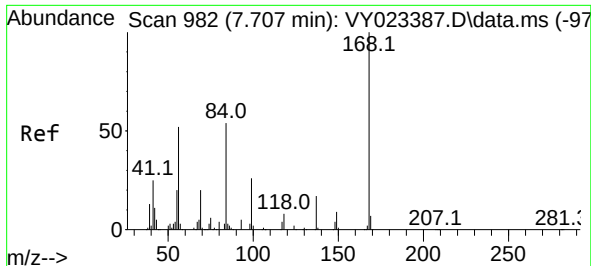
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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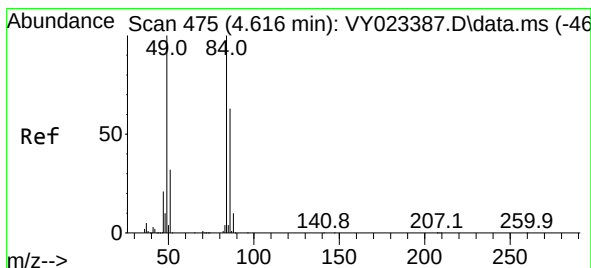
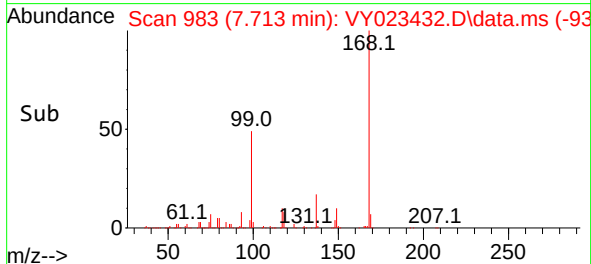
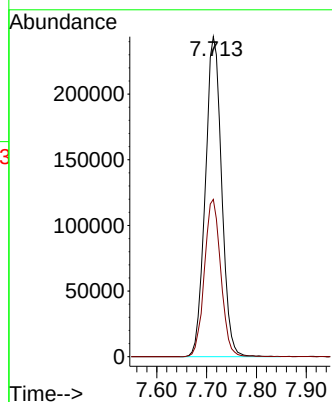
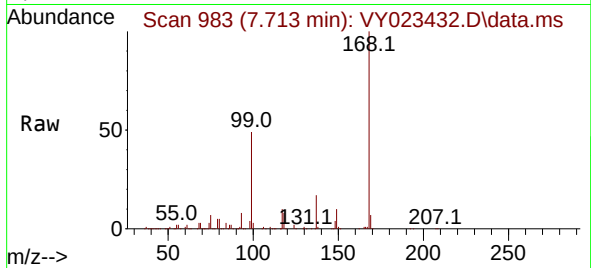




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023432.D
Acq: 10 Oct 2025 12:29

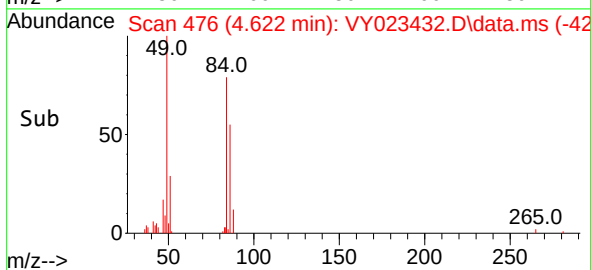
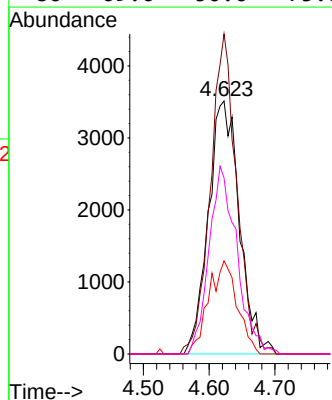
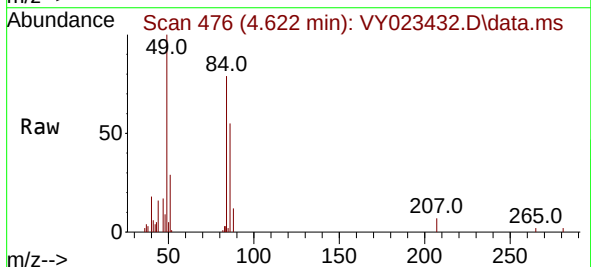
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

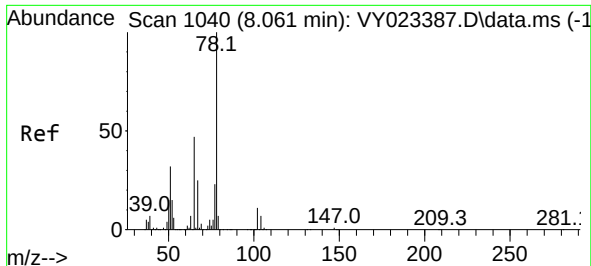
Tgt Ion:168 Resp: 554278
Ion Ratio Lower Upper
168 100
99 49.2 39.7 59.5



#20
Methylene Chloride
Concen: 1.935 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023432.D
Acq: 10 Oct 2025 12:29

Tgt Ion: 84 Resp: 11545
Ion Ratio Lower Upper
84 100
49 126.5 80.2 120.4#
51 36.8 25.9 38.9
86 69.6 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 61.215 ug/l

RT: 8.067 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VY023432.D

Acq: 10 Oct 2025 12:29

Instrument :

MSVOA_Y

ClientSampleId :

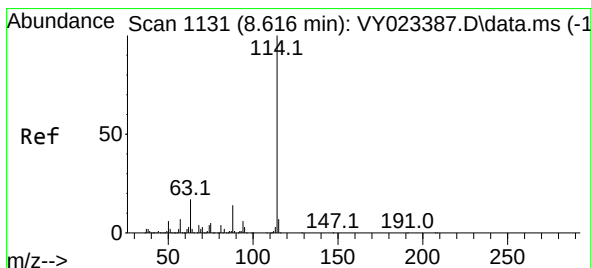
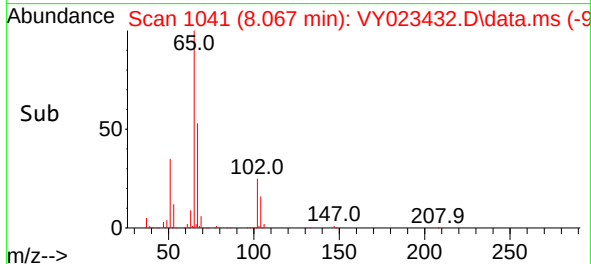
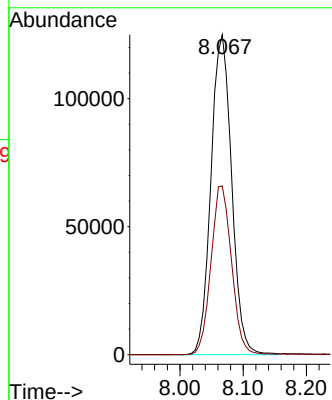
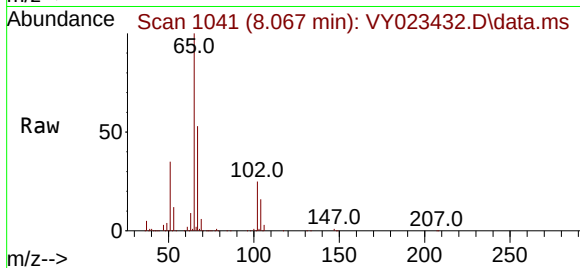
72-11989

Tgt Ion: 65 Resp: 283728

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023432.D

Acq: 10 Oct 2025 12:29

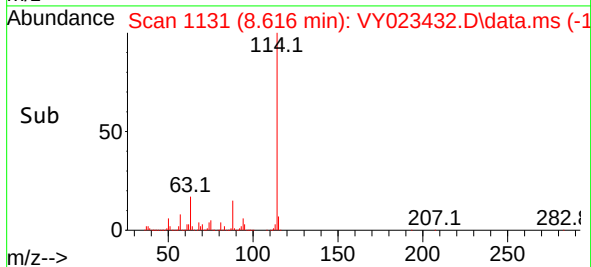
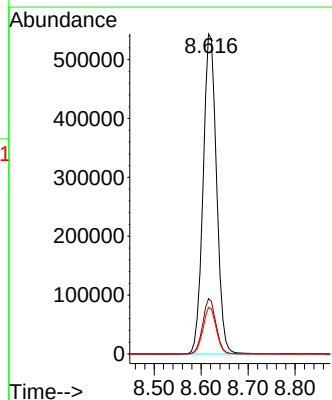
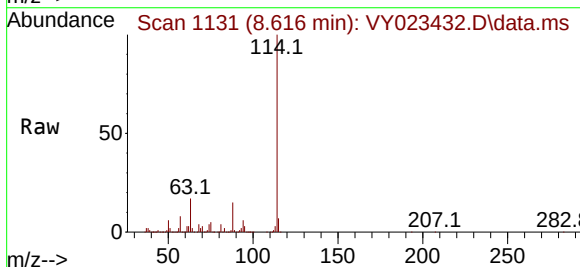
Tgt Ion:114 Resp: 1081021

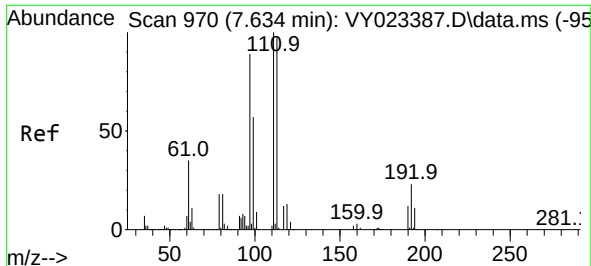
Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.2

88 14.6 0.0 28.4

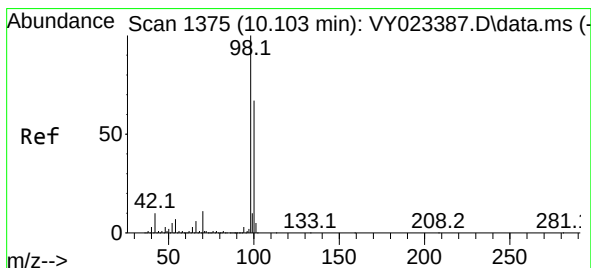
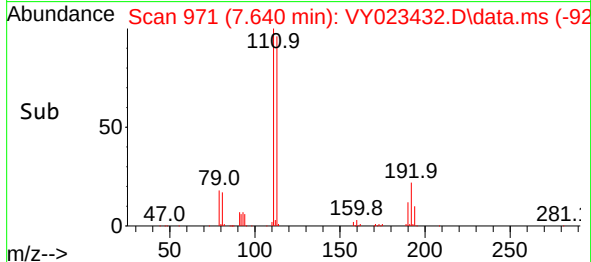
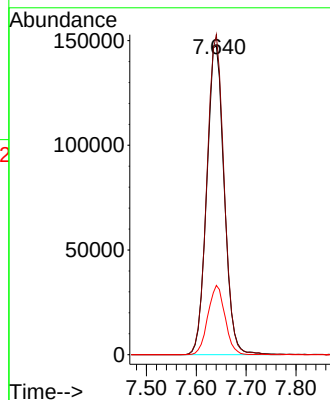
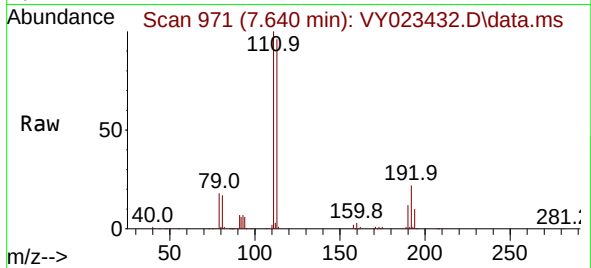




#35
Dibromofluoromethane
Concen: 54.079 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023432.D
Acq: 10 Oct 2025 12:29

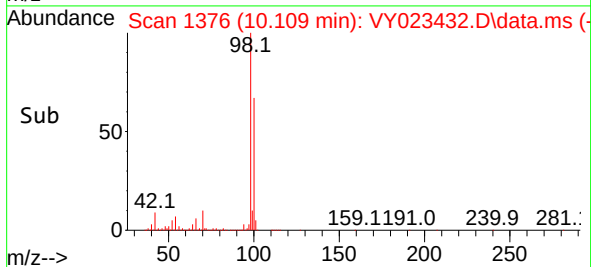
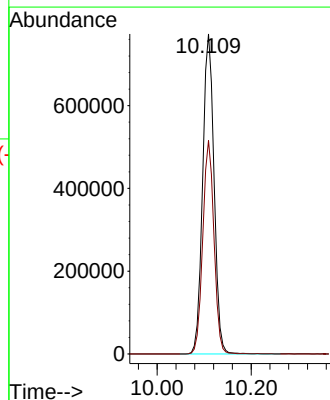
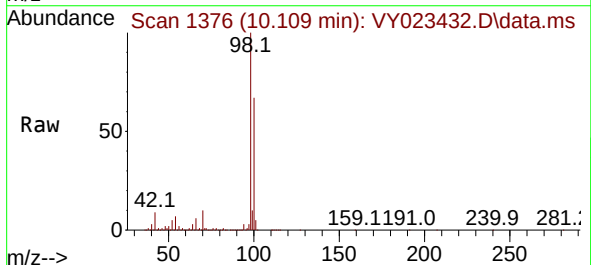
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

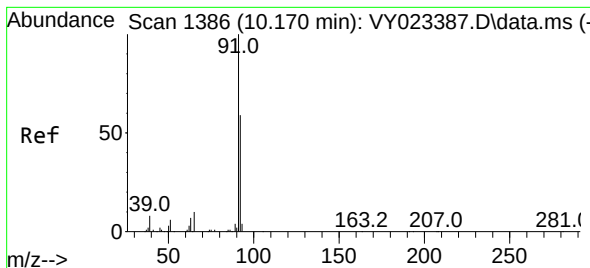
Tgt Ion:113 Resp: 359211
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.6
192 22.0 18.0 27.0



#50
Toluene-d8
Concen: 52.751 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023432.D
Acq: 10 Oct 2025 12:29

Tgt Ion: 98 Resp: 1304884
Ion Ratio Lower Upper
98 100
100 65.5 53.0 79.4





#52

Toluene

Concen: 3.962 ug/l

RT: 10.170 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023432.D

Acq: 10 Oct 2025 12:29

Instrument :

MSVOA_Y

ClientSampleId :

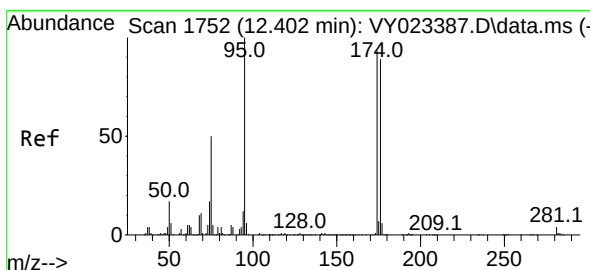
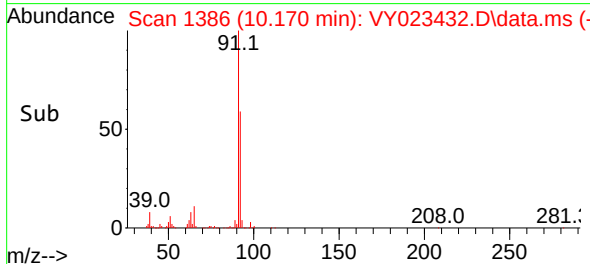
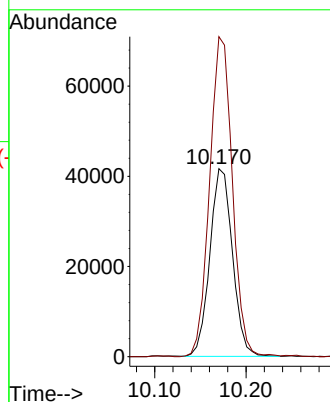
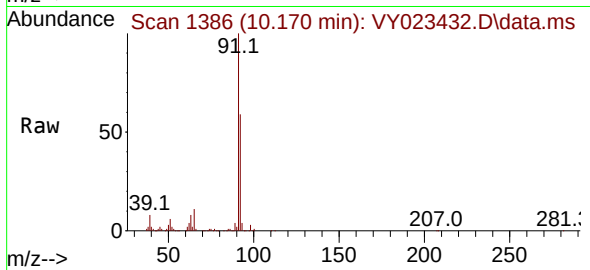
72-11989

Tgt Ion: 92 Resp: 71643

Ion Ratio Lower Upper

92 100

91 171.2 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 51.804 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023432.D

Acq: 10 Oct 2025 12:29

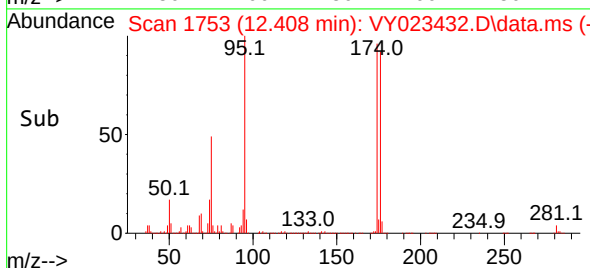
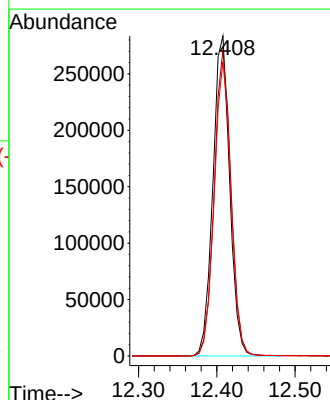
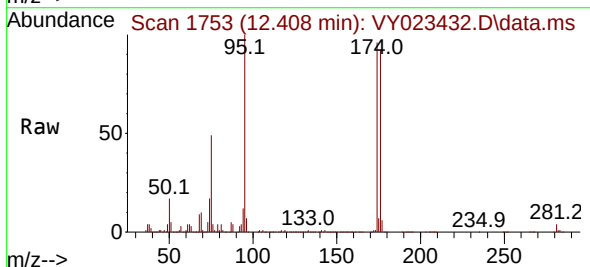
Tgt Ion: 95 Resp: 423073

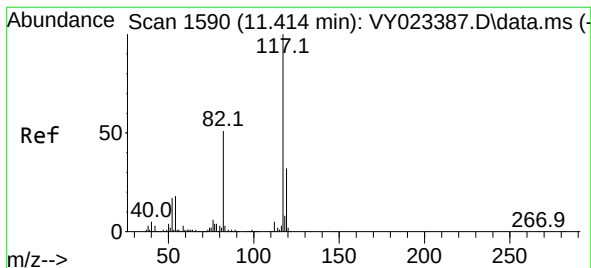
Ion Ratio Lower Upper

95 100

174 95.7 0.0 192.8

176 92.3 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023432.D

Acq: 10 Oct 2025 12:29

Instrument :

MSVOA_Y

ClientSampleId :

72-11989

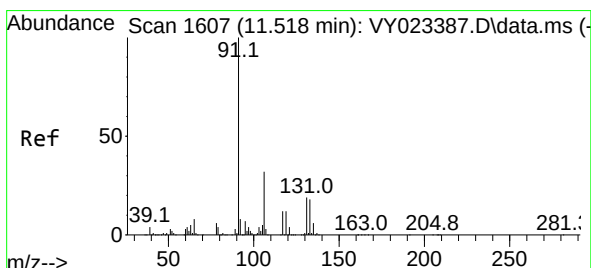
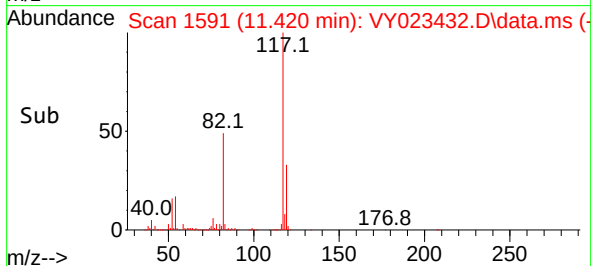
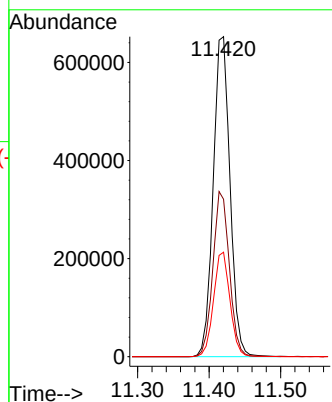
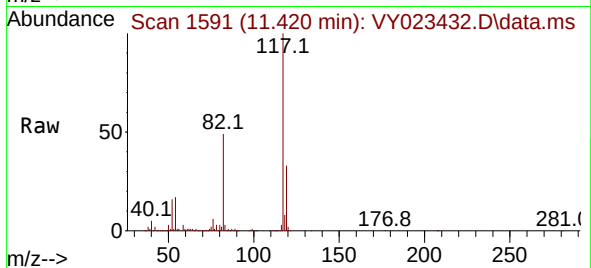
Tgt Ion:117 Resp: 1064215

Ion Ratio Lower Upper

117 100

82 49.2 41.0 61.4

119 32.7 25.6 38.4



#67

Ethyl Benzene

Concen: 1.191 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023432.D

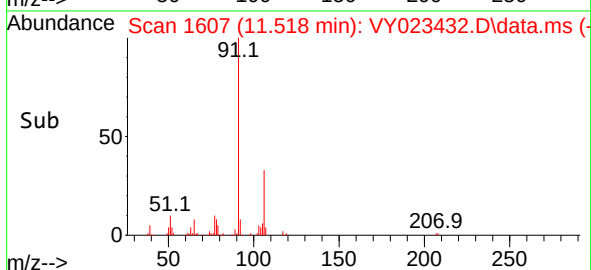
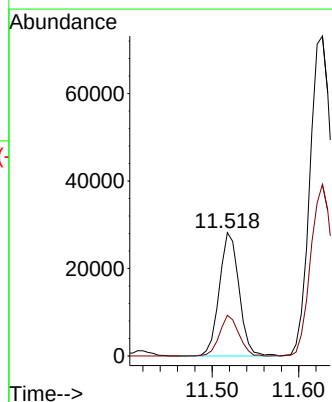
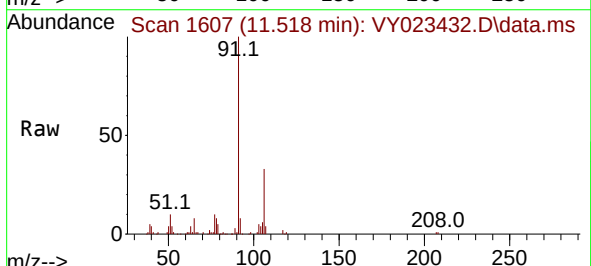
Acq: 10 Oct 2025 12:29

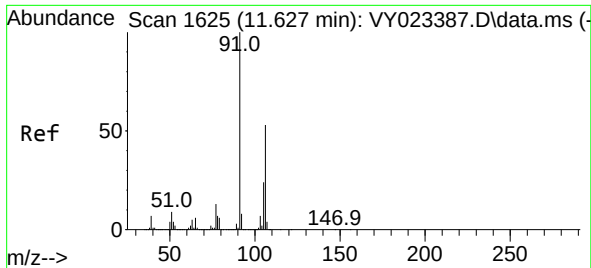
Tgt Ion: 91 Resp: 44605

Ion Ratio Lower Upper

91 100

106 32.9 25.8 38.8

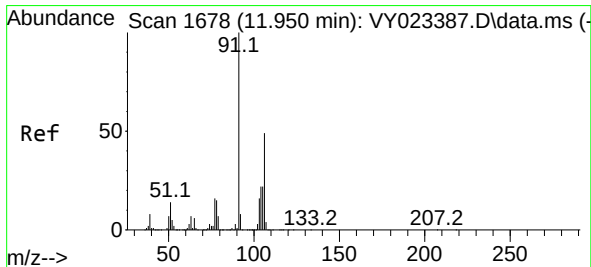
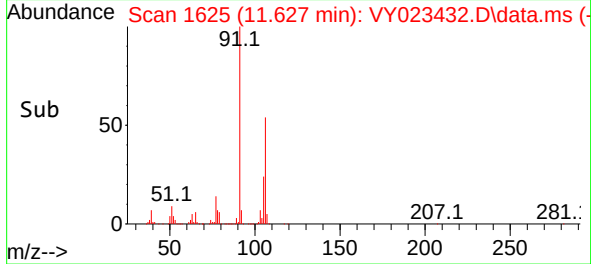
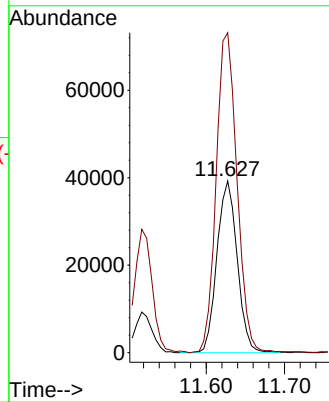
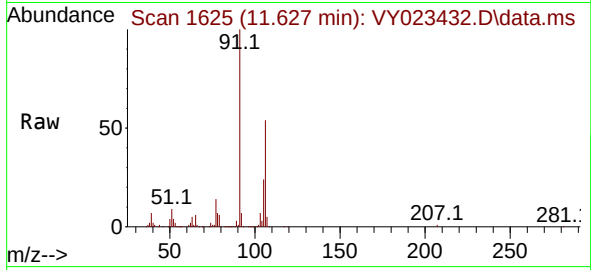




#68
m/p-Xylenes
Concen: 4.696 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023432.D
Acq: 10 Oct 2025 12:29

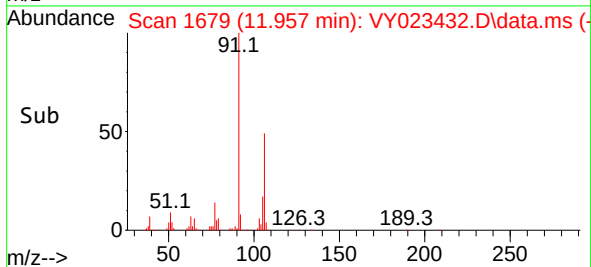
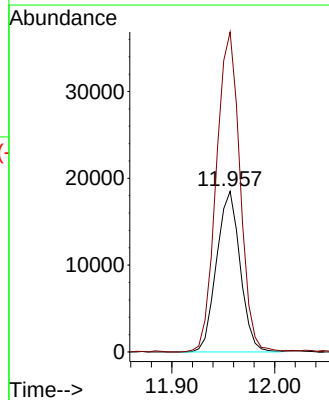
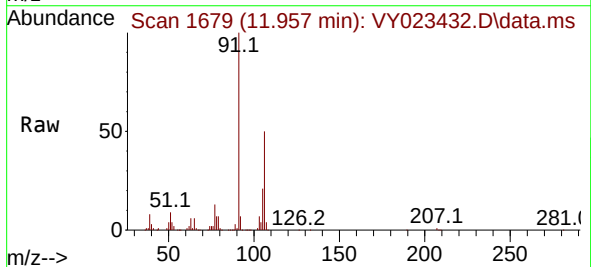
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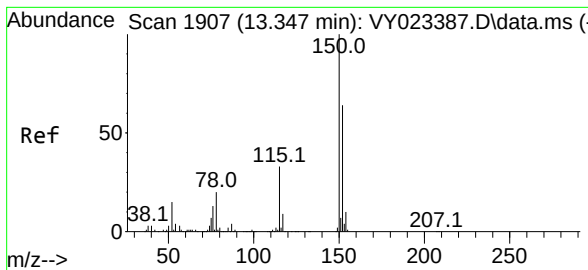
Tgt Ion:106 Resp: 70574
Ion Ratio Lower Upper
106 100
91 191.9 152.6 229.0



#69
o-Xylene
Concen: 2.094 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023432.D
Acq: 10 Oct 2025 12:29

Tgt Ion:106 Resp: 29519
Ion Ratio Lower Upper
106 100
91 199.9 101.4 304.1





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.347 min Scan# 1907
 Delta R.T. 0.000 min
 Lab File: VY023432.D
 Acq: 10 Oct 2025 12:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11989

Tgt Ion:152 Resp: 448266
 Ion Ratio Lower Upper
 152 100
 115 55.1 27.1 81.2
 150 156.8 0.0 347.4

