

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102225\
 Data File : VY023552.D
 Acq On : 22 Oct 2025 15:34
 Operator : SY/MD
 Sample : Q3419-04
 Misc : 5.25g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-S16-119133-20251021

Quant Time: Oct 24 02:35:55 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)

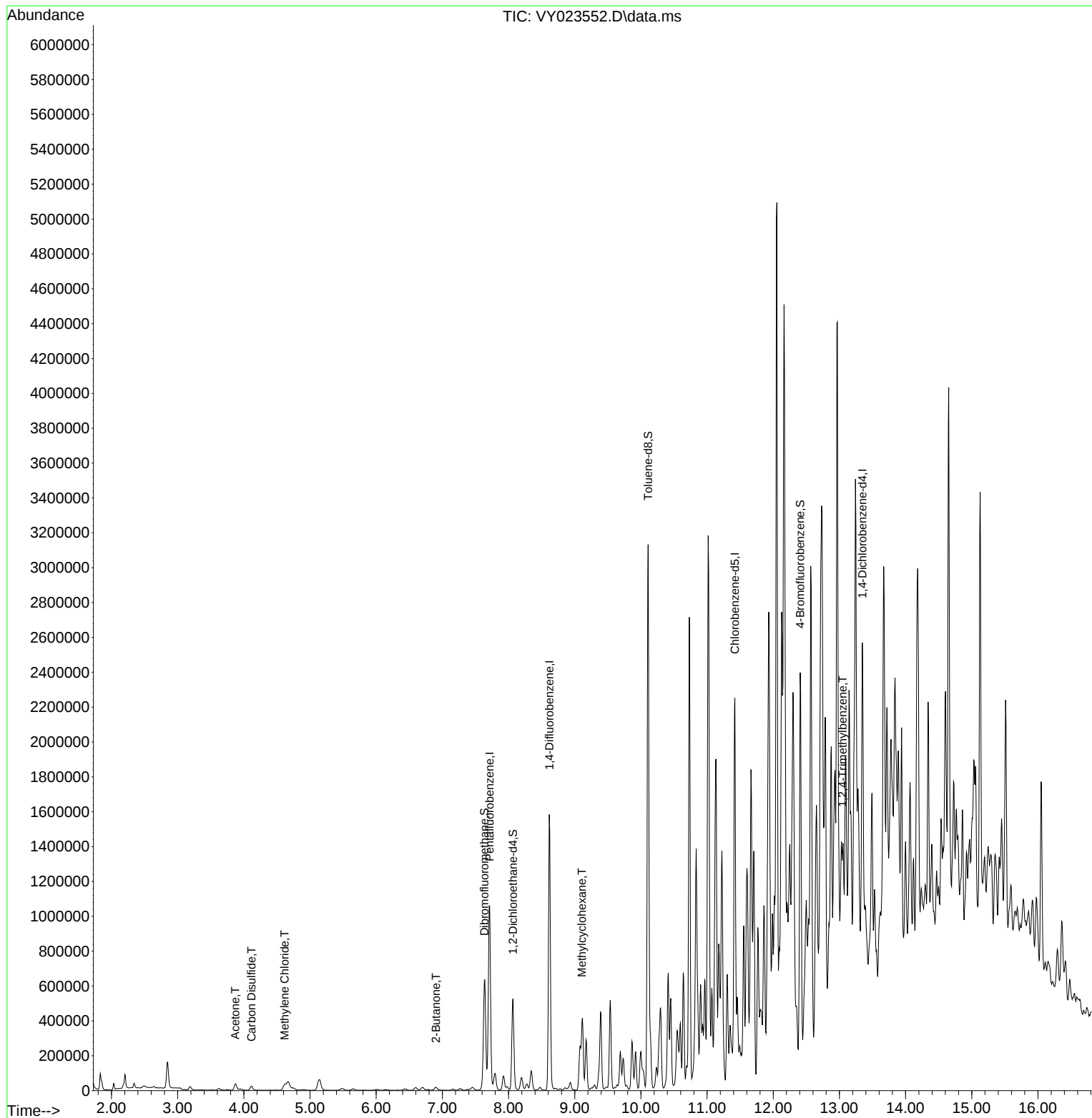
Internal Standards						
1) Pentafluorobenzene	7.713	168	900343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1446852	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1218442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	499022	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	402685	53.486	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.980%	
35) Dibromofluoromethane	7.634	113	456664	51.367	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.740%	
50) Toluene-d8	10.109	98	1676161	50.627	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.260%	
62) 4-Bromofluorobenzene	12.408	95	515265	47.140	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 94.280%	
Target Compounds						
					Qvalue	
16) Acetone	3.872	43	61394	34.253	ug/l	97
17) Carbon Disulfide	4.116	76	46881	2.040	ug/l	98
20) Methylene Chloride	4.616	84	19228	1.984	ug/l	94
25) 2-Butanone	6.902	43	23901	10.923	ug/l	98
39) Methylcyclohexane	9.109	83	140047	9.139	ug/l #	90
84) 1,2,4-Trimethylbenzene	13.048	105	33222	1.253	ug/l	100

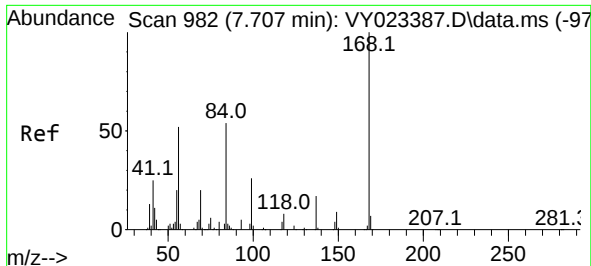
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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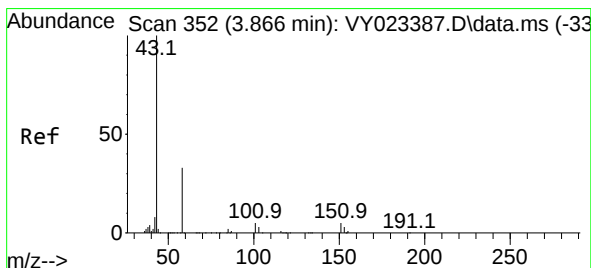
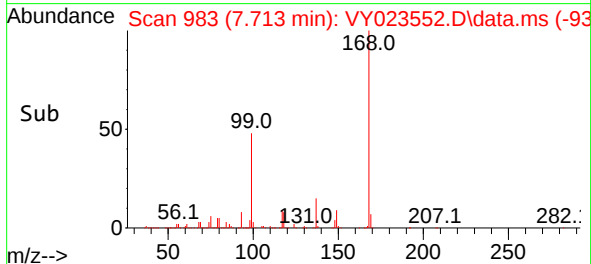
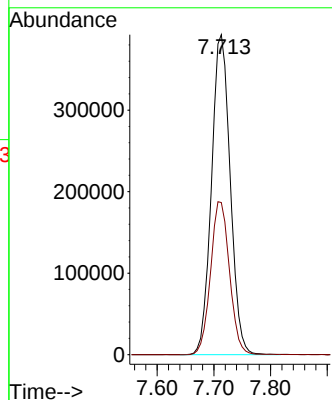
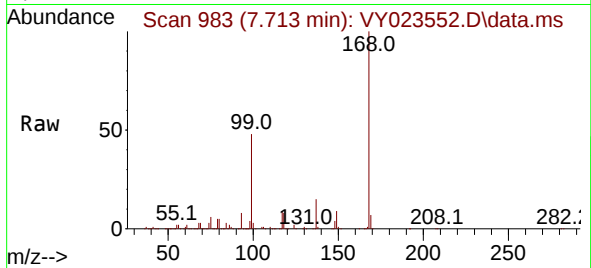




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

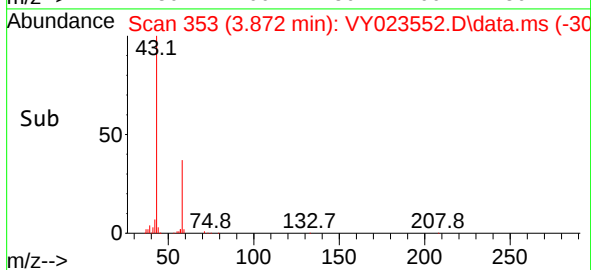
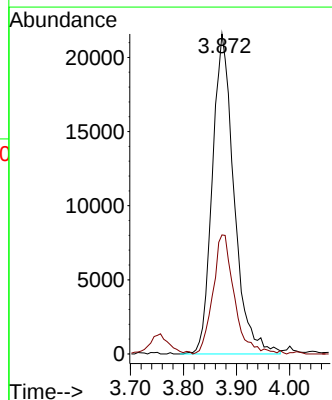
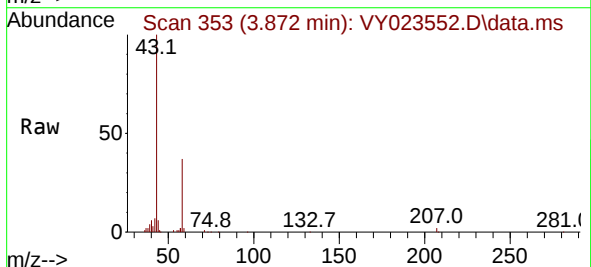
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S16-119133-20251021

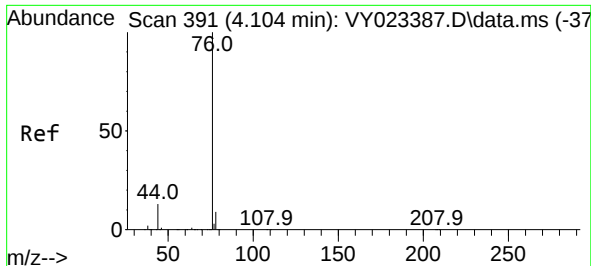
Tgt Ion:168 Resp: 900343
Ion Ratio Lower Upper
168 100
99 47.5 39.7 59.5



#16
Acetone
Concen: 34.253 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

Tgt Ion: 43 Resp: 61394
Ion Ratio Lower Upper
43 100
58 36.4 27.7 41.5

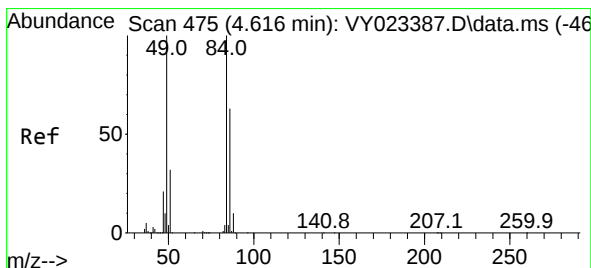
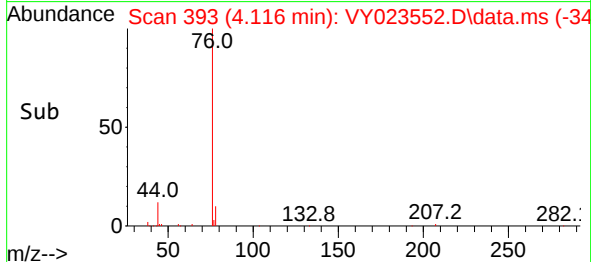
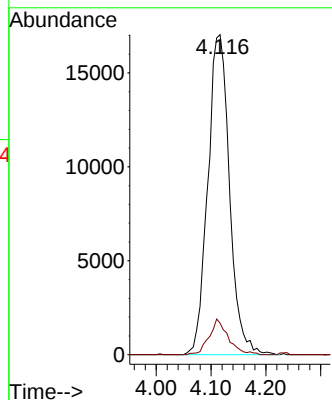
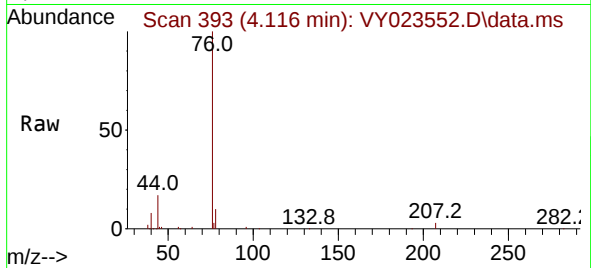




#17
Carbon Disulfide
Concen: 2.040 ug/l
RT: 4.116 min Scan# 391
Delta R.T. 0.012 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

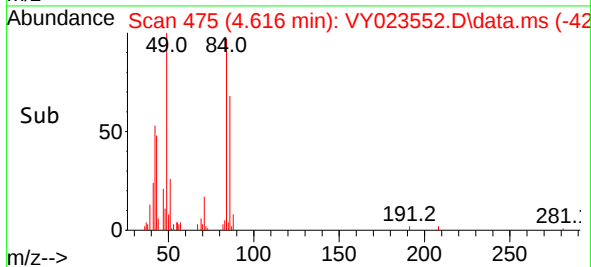
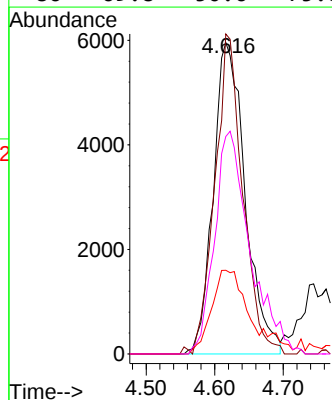
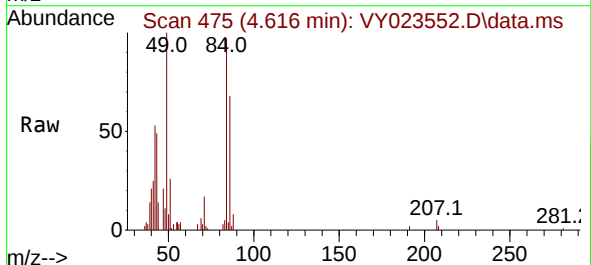
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S16-119133-20251021

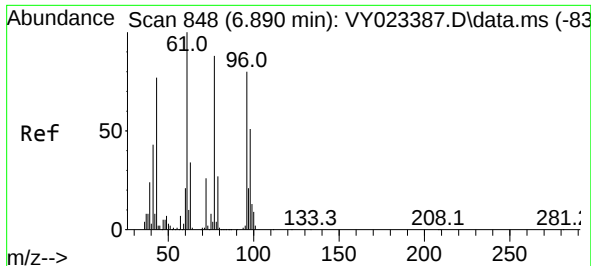
Tgt Ion: 76 Resp: 46881
Ion Ratio Lower Upper
76 100
78 9.9 7.3 10.9



#20
Methylene Chloride
Concen: 1.984 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

Tgt Ion: 84 Resp: 19228
Ion Ratio Lower Upper
84 100
49 102.8 80.2 120.4
51 26.9 25.9 38.9
86 69.8 50.6 75.8





#25

2-Butanone

Concen: 10.923 ug/l

RT: 6.902 min Scan# 848

Delta R.T. 0.012 min

Lab File: VY023552.D

Acq: 22 Oct 2025 15:34

Instrument :

MSVOA_Y

ClientSampleId :

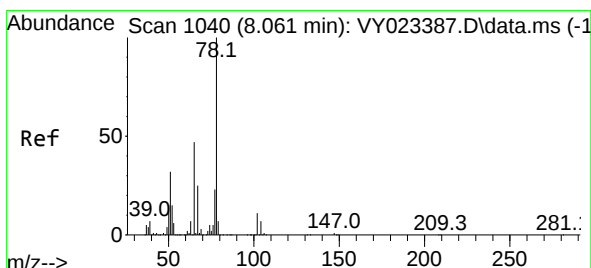
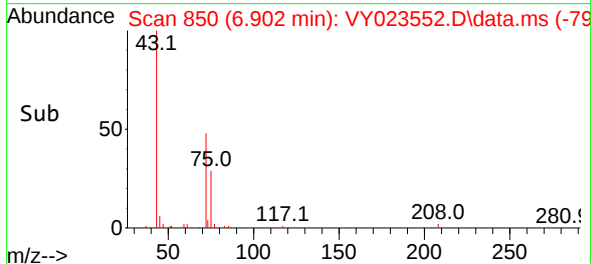
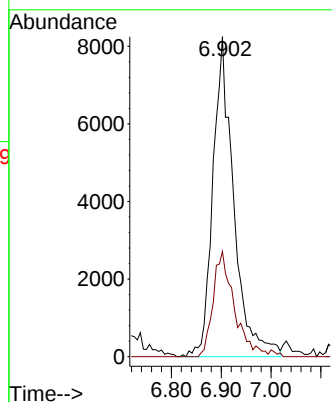
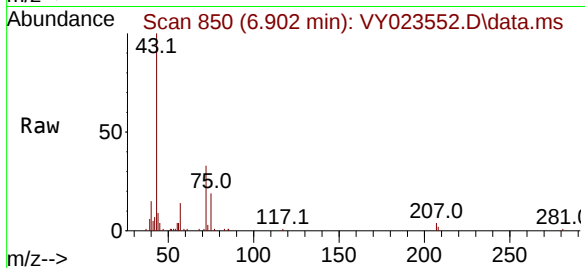
PR132-S16-119133-20251021

Tgt Ion: 43 Resp: 23901

Ion Ratio Lower Upper

43 100

72 32.9 27.4 41.2



#33

1,2-Dichloroethane-d4

Concen: 53.486 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY023552.D

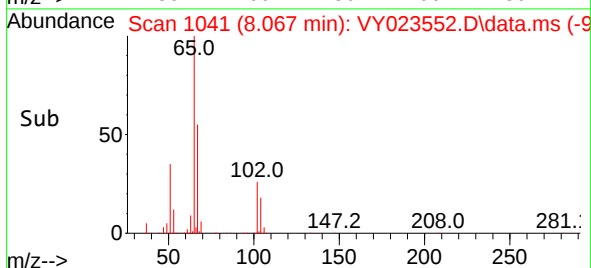
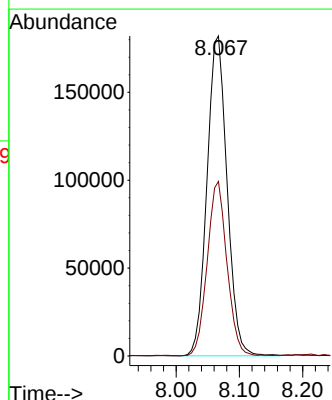
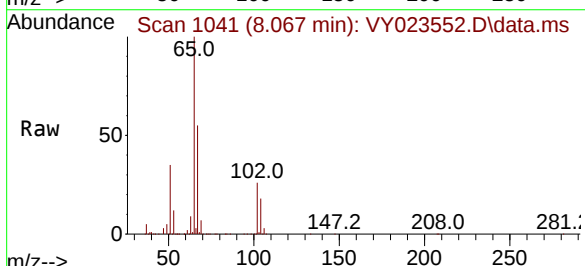
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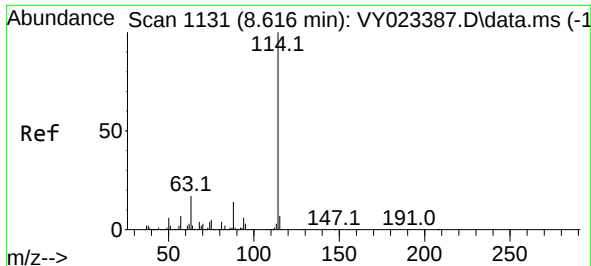
Tgt Ion: 65 Resp: 402685

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.8

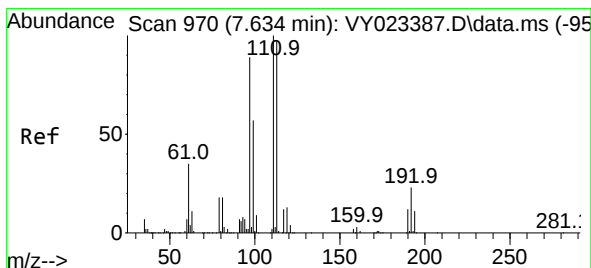
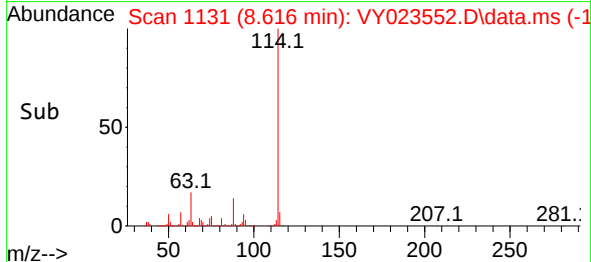
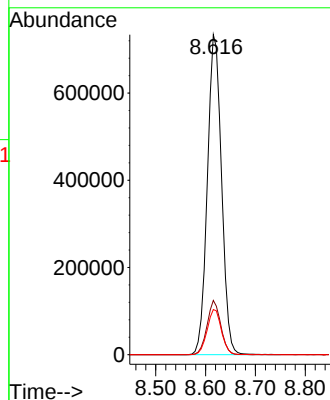
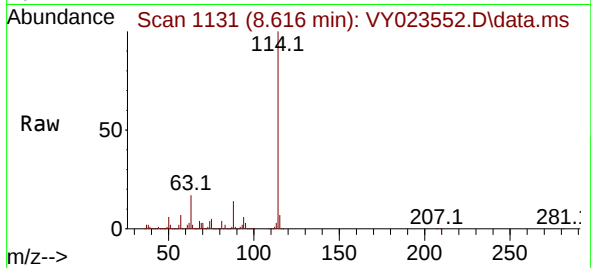




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

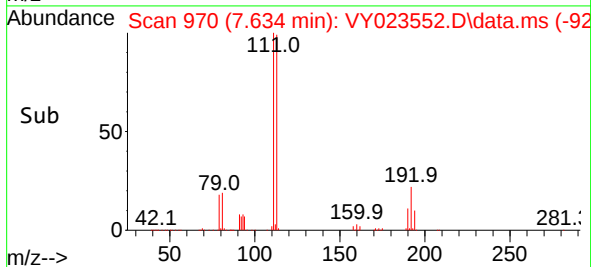
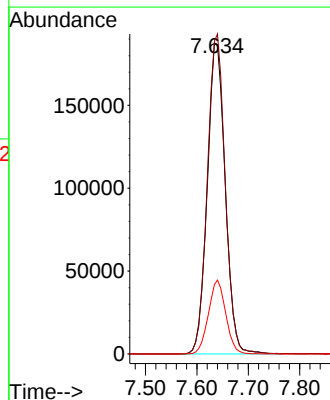
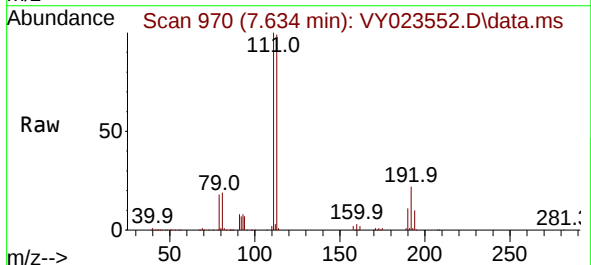
Instrument :
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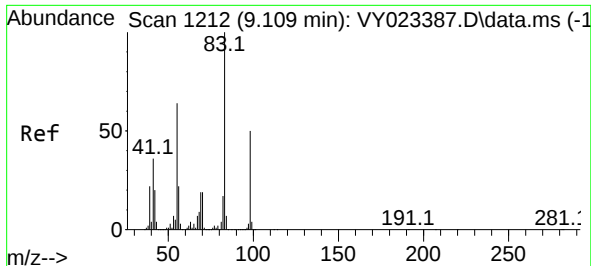
Tgt Ion:114 Resp: 1446852
Ion Ratio Lower Upper
114 100
63 17.0 0.0 34.2
88 14.1 0.0 28.4



#35
Dibromofluoromethane
Concen: 51.367 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

Tgt Ion:113 Resp: 456664
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.6
192 22.9 18.0 27.0





#39

Methylcyclohexane

Concen: 9.139 ug/l

RT: 9.109 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023552.D

Acq: 22 Oct 2025 15:34

Instrument :

MSVOA_Y

ClientSampleId :

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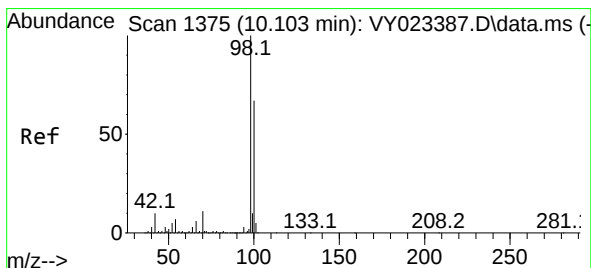
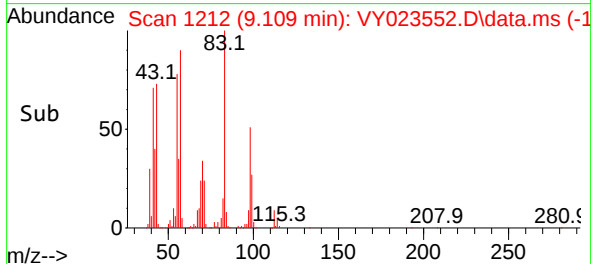
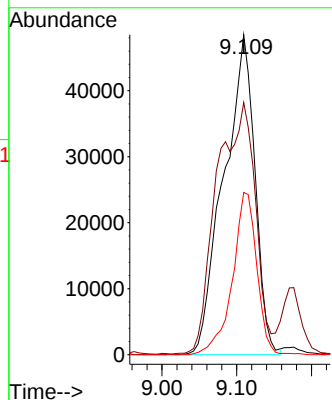
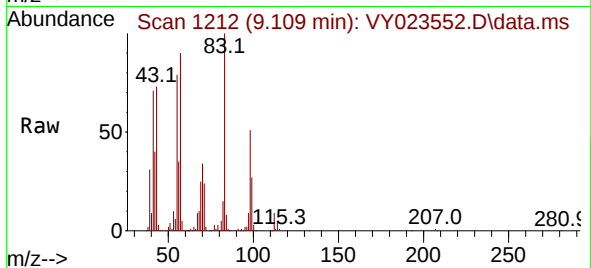
Tgt Ion: 83 Resp: 140047

Ion Ratio Lower Upper

83 100

55 78.4 51.4 77.2#

98 50.7 40.4 60.6



#50

Toluene-d8

Concen: 50.627 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023552.D

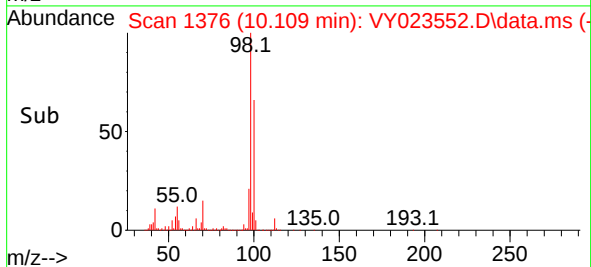
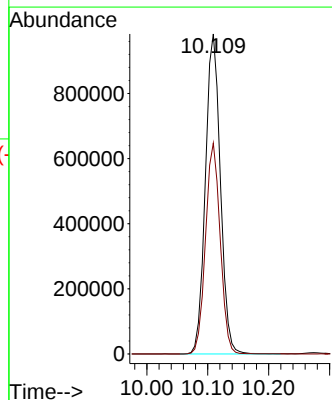
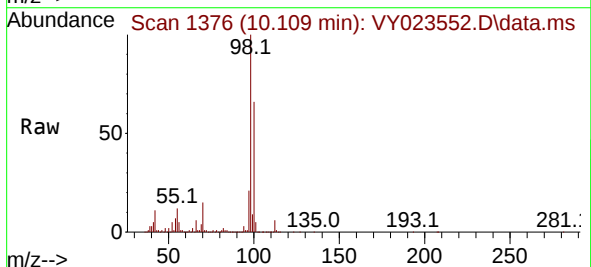
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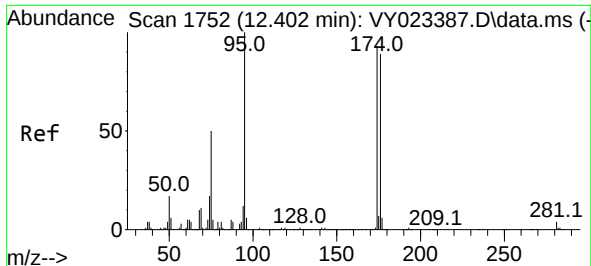
Tgt Ion: 98 Resp: 1676161

Ion Ratio Lower Upper

98 100

100 64.5 53.0 79.4

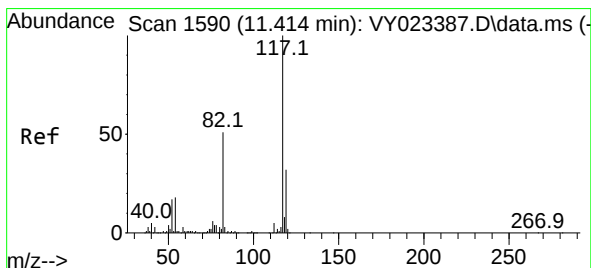
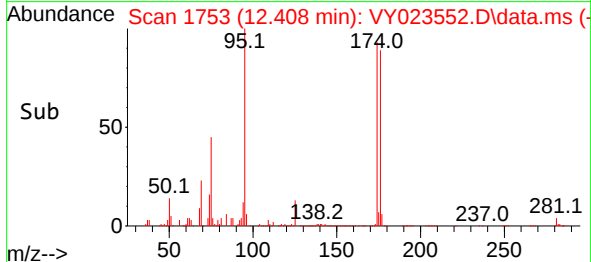
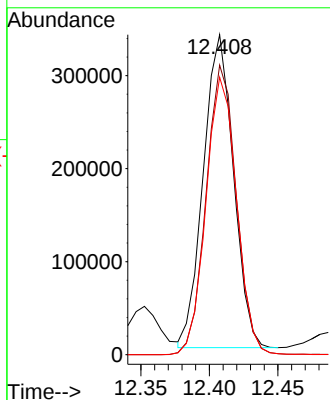
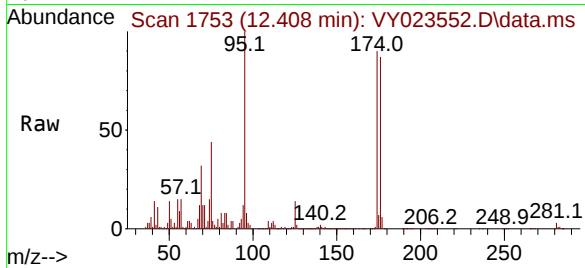




#62
4-Bromofluorobenzene
Concen: 47.140 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

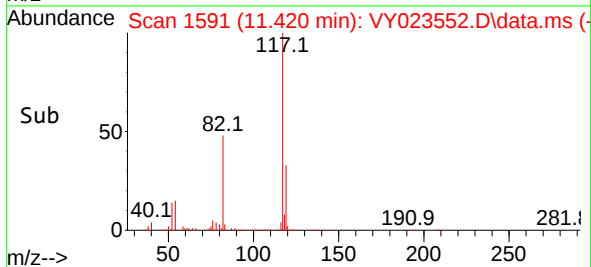
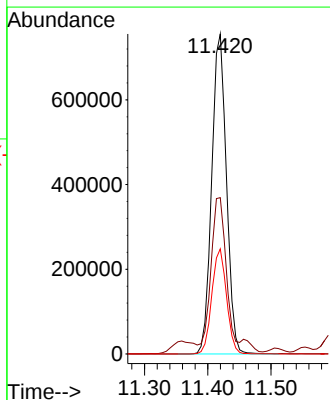
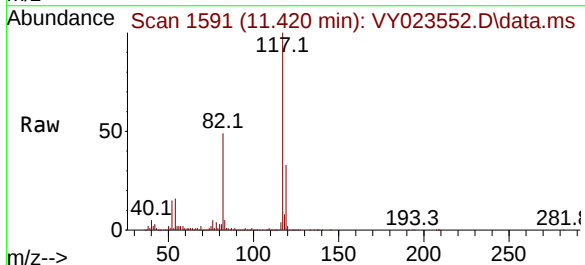
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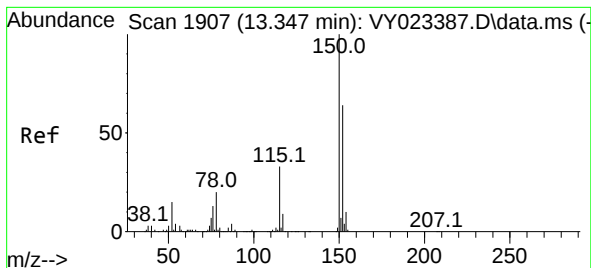
Tgt Ion: 95 Resp: 515265
Ion Ratio Lower Upper
95 100
174 92.8 0.0 192.8
176 90.0 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023552.D
Acq: 22 Oct 2025 15:34

Tgt Ion: 117 Resp: 1218442
Ion Ratio Lower Upper
117 100
82 47.1 41.0 61.4
119 32.8 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023552.D

Acq: 22 Oct 2025 15:34

Instrument :

MSVOA_Y

ClientSampleId :

PR132-S16-119133-20251021

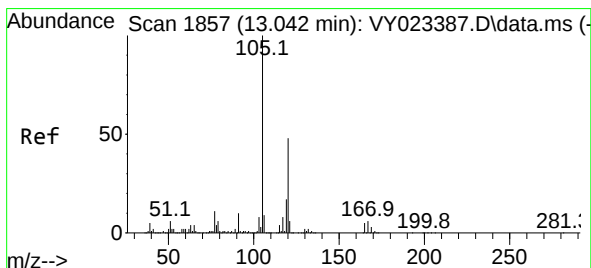
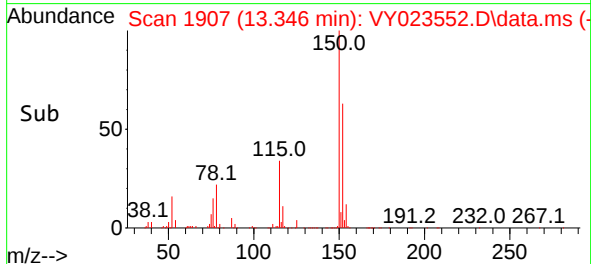
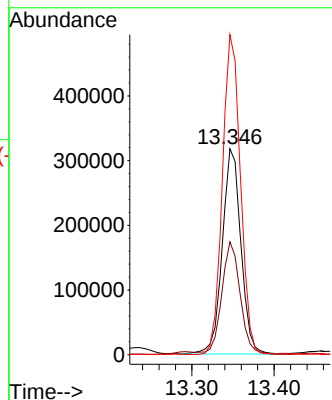
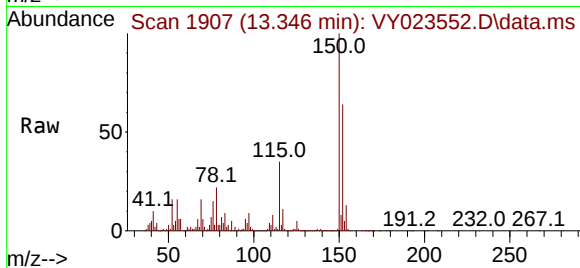
Tgt Ion:152 Resp: 499022

Ion Ratio Lower Upper

152 100

115 54.3 27.1 81.2

150 150.9 0.0 347.4



#84

1,2,4-Trimethylbenzene

Concen: 1.253 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.006 min

Lab File: VY023552.D

Acq: 22 Oct 2025 15:34

Tgt Ion:105 Resp: 33222

Ion Ratio Lower Upper

105 100

120 47.7 23.8 71.2

