

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103125\
 Data File : VY023644.D
 Acq On : 31 Oct 2025 15:01
 Operator : SY/MD
 Sample : Q3516-01
 Misc : 7.13g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-01-103125

Quant Time: Nov 01 03:23:57 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)

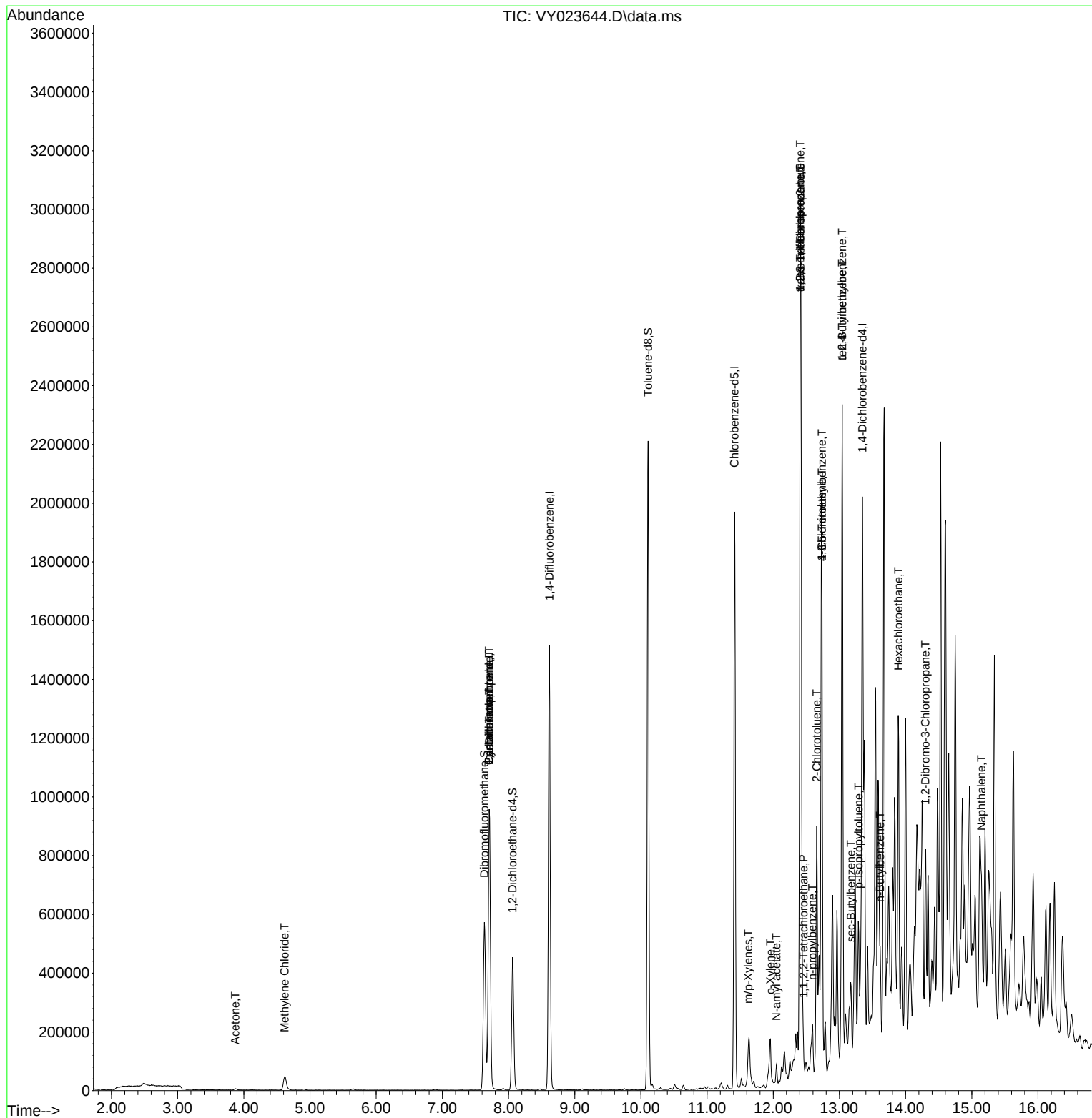
Internal Standards						
1) Pentafluorobenzene	7.707	168	799232	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1340256	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1100026	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	437972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	349177	52.246	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.500%			
35) Dibromofluoromethane	7.634	113	413077	50.160	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.320%			
50) Toluene-d8	10.109	98	1487890	48.515	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.020%			
62) 4-Bromofluorobenzene	12.408	95	446171	44.065	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 88.120%			
Target Compounds					Qvalue	
16) Acetone	3.872	43	7750	4.871	ug/l	92
20) Methylene Chloride	4.616	84	37681	4.380	ug/l	97
31) Cyclohexane	7.707	56	14095	1.268	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	52326	4.799	ug/l #	48
38) Carbon Tetrachloride	7.707	117	74419	5.629	ug/l #	16
68) m/p-Xylenes	11.621	106	38017	2.447	ug/l	99
69) o-Xylene	11.956	106	40224	2.761	ug/l	99
74) N-amyl acetate	12.048	43	12007	2.316	ug/l #	71
75) 1,1,2,2-Tetrachloroethane	12.456	83	5376	1.139	ug/l #	27
76) 1,2,3-Trichloropropane	12.408	75	227801	58.953	ug/l #	100
78) n-propylbenzene	12.590	91	128336	3.842	ug/l	100
79) 2-Chlorotoluene	12.658	91	62312	3.186	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.737	105	318943	13.675	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	227801	144.565	ug/l #	16
82) 4-Chlorotoluene	12.737	91	32506	1.614	ug/l #	42
83) tert-Butylbenzene	13.042	119	141436	6.568	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.042	105	1146305	49.247	ug/l	100
85) sec-Butylbenzene	13.176	105	108892	3.525	ug/l	86
86) p-Isopropyltoluene	13.292	119	75424	2.868	ug/l	99
89) n-Butylbenzene	13.615	91	130364	5.688	ug/l #	74
90) Hexachloroethane	13.889	117	37587	6.644	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.297	75	848	1.095	ug/l #	43
95) Naphthalene	15.145	128	281877	21.675	ug/l	97

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

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Response via : Initial Calibration

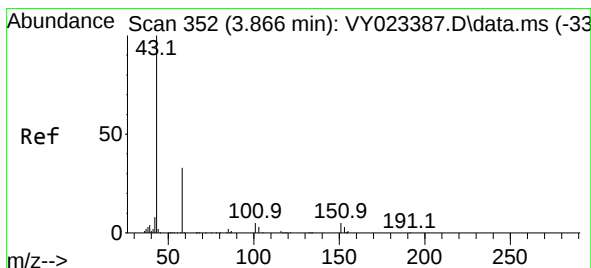
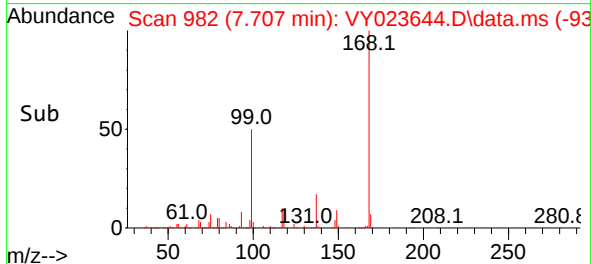
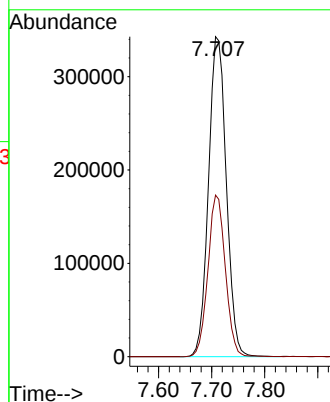
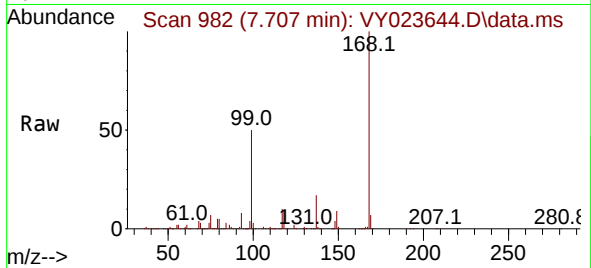




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

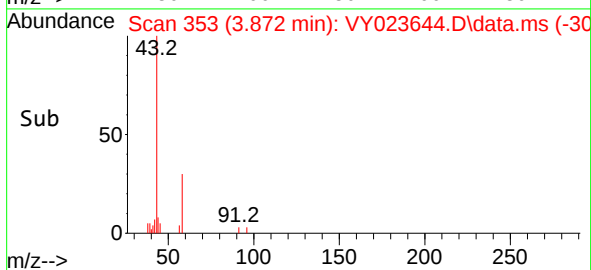
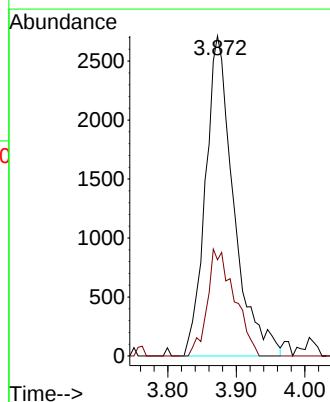
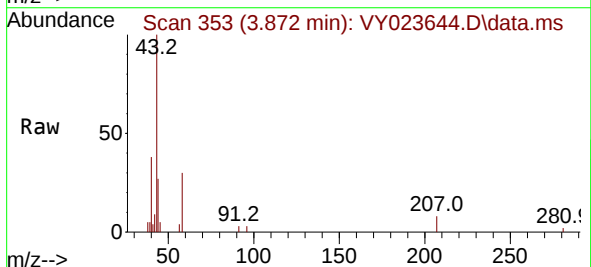
Instrument :
MSVOA_Y
ClientSampleId :
HD-01-103125

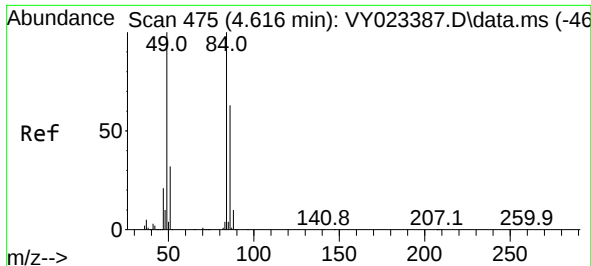
Tgt Ion:168 Resp: 799232
Ion Ratio Lower Upper
168 100
99 50.5 39.7 59.5



#16
Acetone
Concen: 4.871 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion: 43 Resp: 7750
Ion Ratio Lower Upper
43 100
58 30.0 27.7 41.5



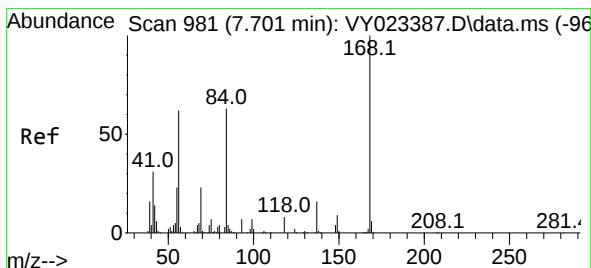
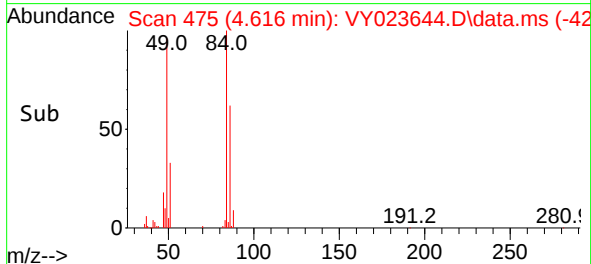
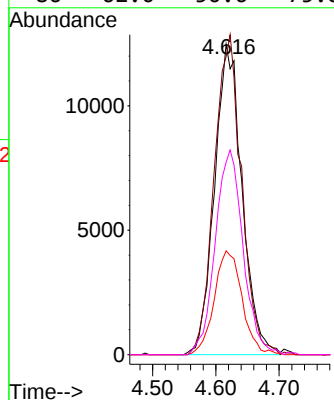
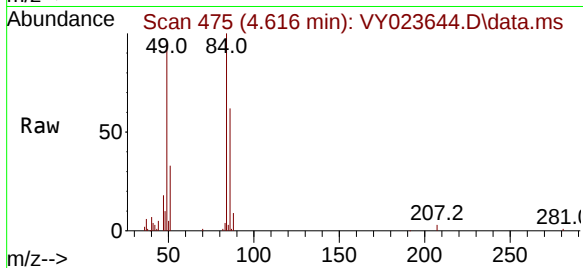


#20
Methylene Chloride
Concen: 4.380 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Instrument :
MSVOA_Y
ClientSampleId :
HD-01-103125

Tgt Ion: 84 Resp: 37681

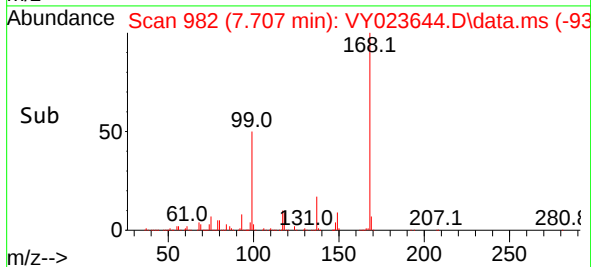
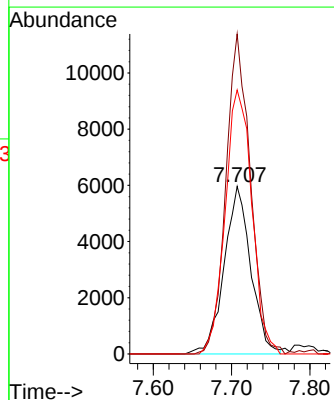
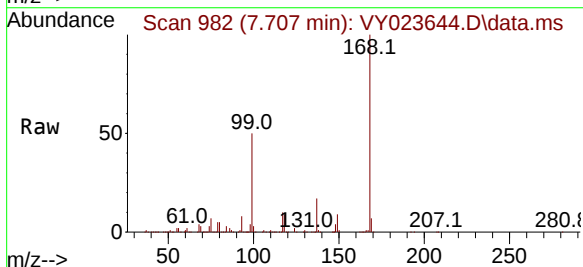
Ion	Ratio	Lower	Upper
84	100		
49	96.0	80.2	120.4
51	33.5	25.9	38.9
86	62.0	50.6	75.8

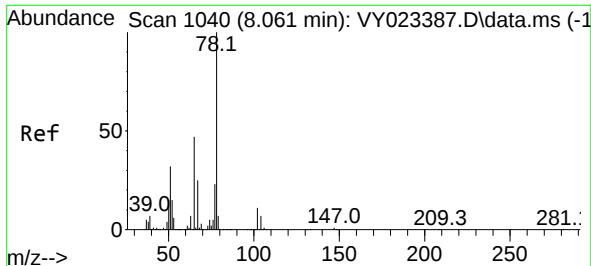


#31
Cyclohexane
Concen: 1.268 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion: 56 Resp: 14095

Ion	Ratio	Lower	Upper
56	100		
69	191.1	30.0	45.0#
84	157.6	81.2	121.8#





#33

1,2-Dichloroethane-d4

Concen: 52.246 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY023644.D

Acq: 31 Oct 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

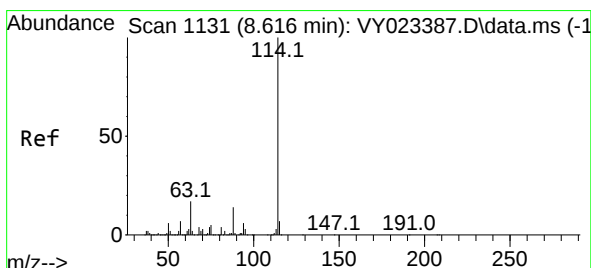
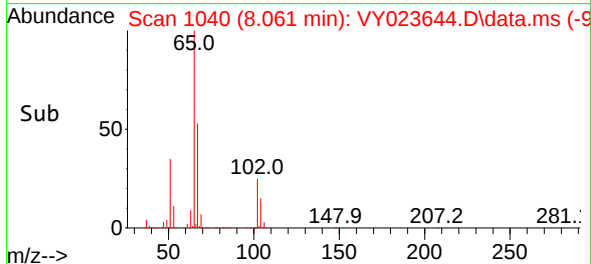
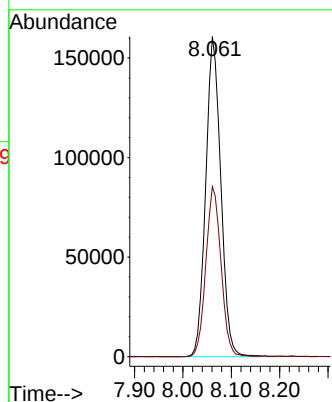
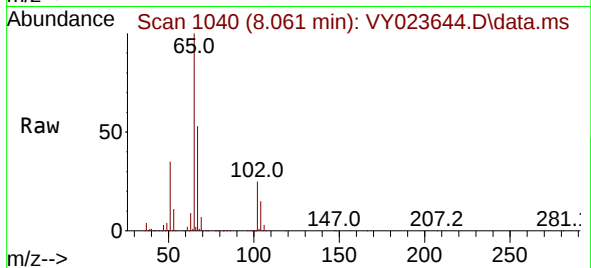
HD-01-103125

Tgt Ion: 65 Resp: 349177

Ion Ratio Lower Upper

65 100

67 53.2 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: VY023644.D

Acq: 31 Oct 2025 15:01

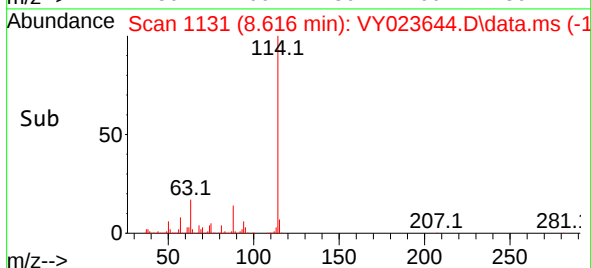
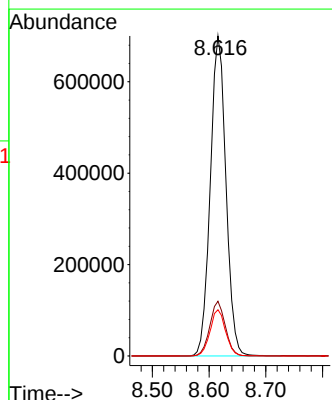
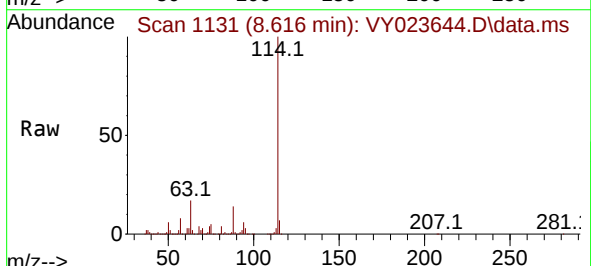
Tgt Ion:114 Resp: 1340256

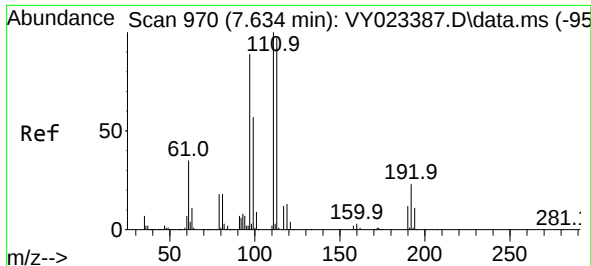
Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.2

88 14.5 0.0 28.4

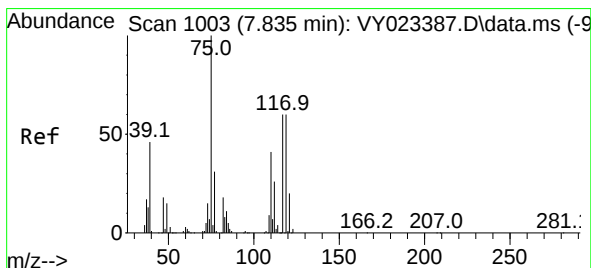
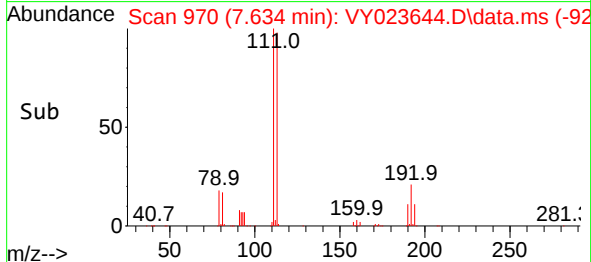
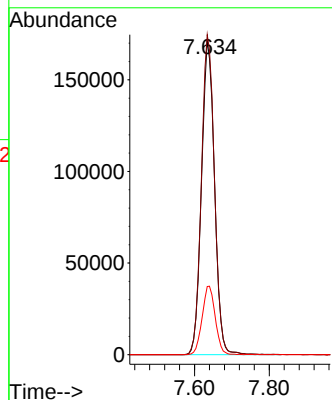
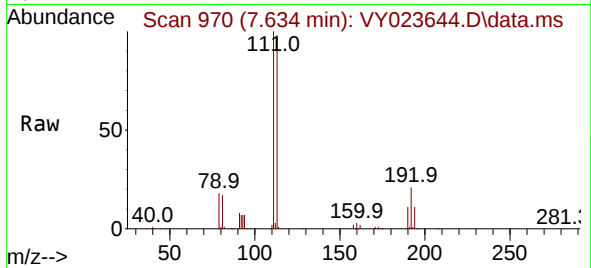




#35
Dibromofluoromethane
Concen: 50.160 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

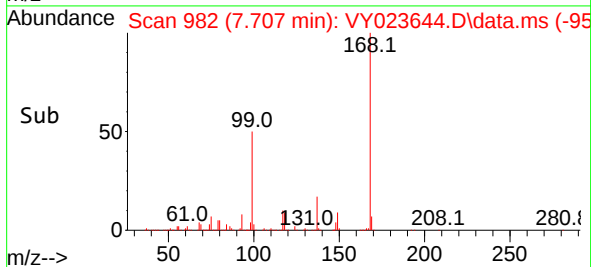
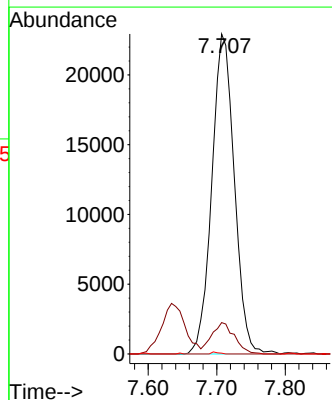
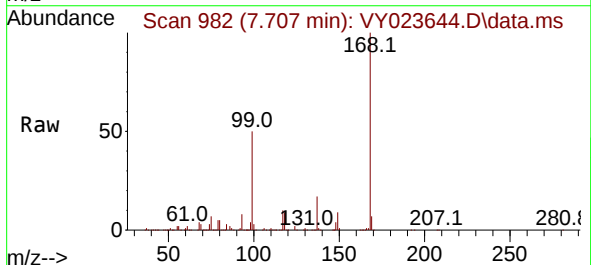
Instrument :
MSVOA_Y
ClientSampleId :
HD-01-103125

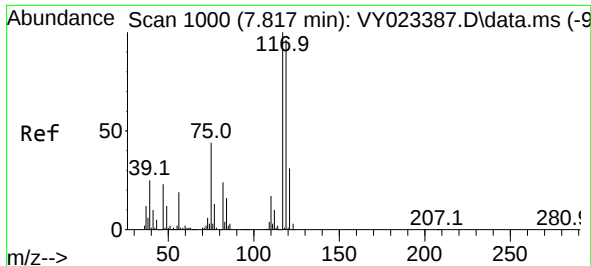
Tgt Ion:113 Resp: 413077
Ion Ratio Lower Upper
113 100
111 102.5 81.8 122.6
192 22.0 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.799 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion: 75 Resp: 52326
Ion Ratio Lower Upper
75 100
110 10.0 19.9 59.7#
77 0.2 25.0 37.6#

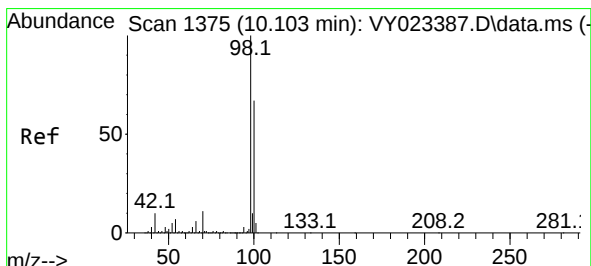
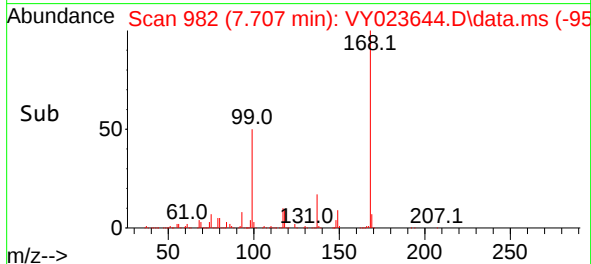
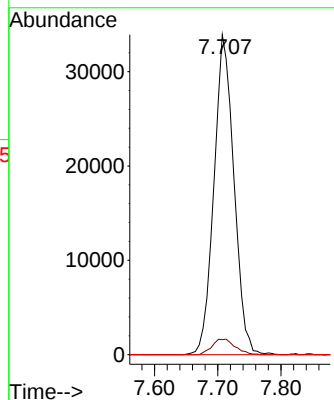
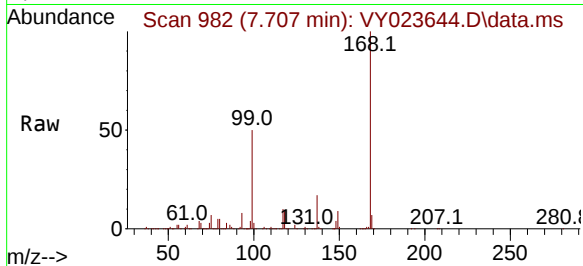




#38
Carbon Tetrachloride
Concen: 5.629 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

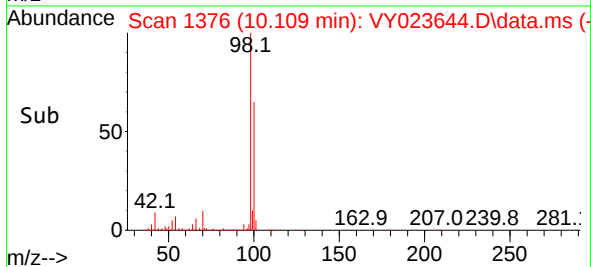
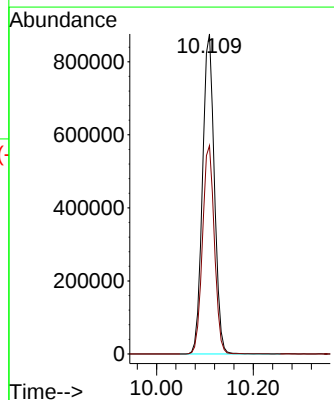
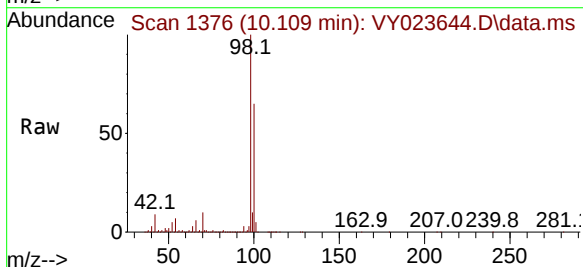
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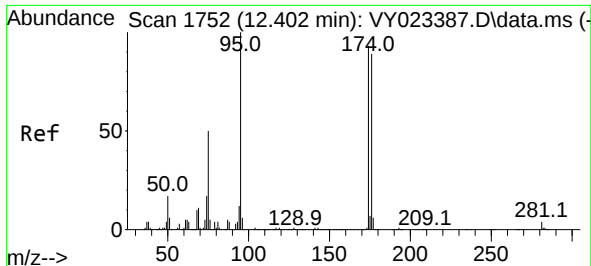
Tgt Ion:117 Resp: 74419
Ion Ratio Lower Upper
117 100
119 4.7 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 48.515 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion: 98 Resp: 1487890
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.4

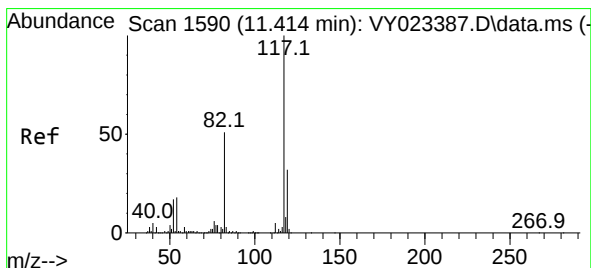
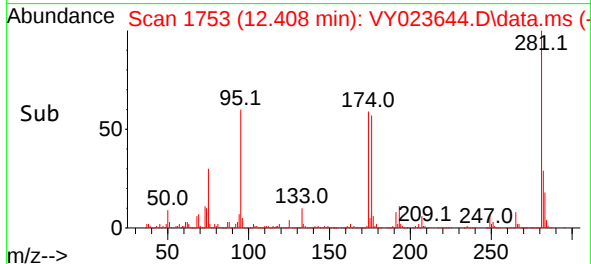
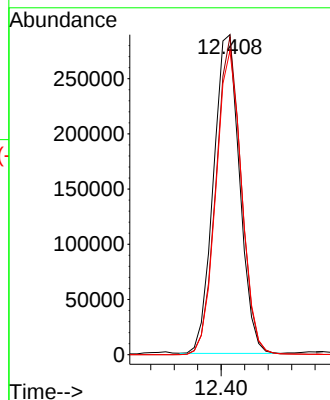
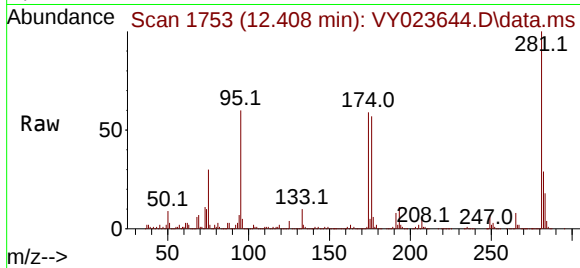




#62
4-Bromofluorobenzene
Concen: 44.065 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

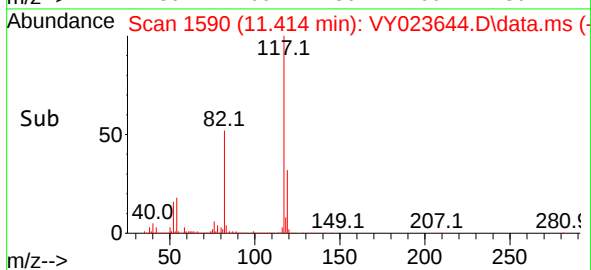
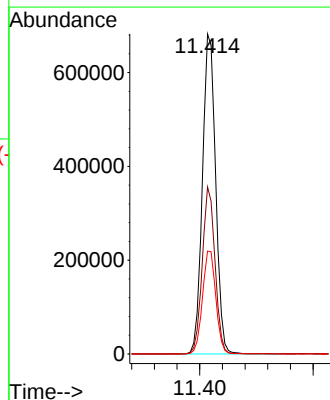
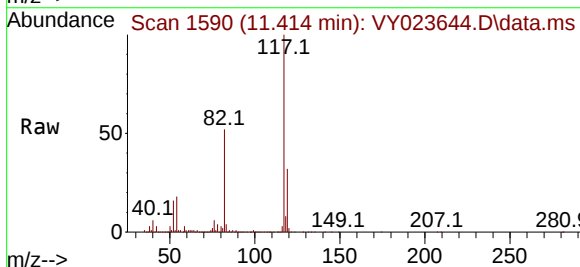
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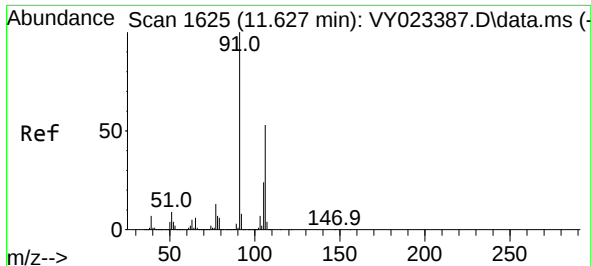
Tgt Ion: 95 Resp: 446171
Ion Ratio Lower Upper
95 100
174 96.2 0.0 192.8
176 94.1 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion: 117 Resp: 1100026
Ion Ratio Lower Upper
117 100
82 52.2 41.0 61.4
119 32.1 25.6 38.4

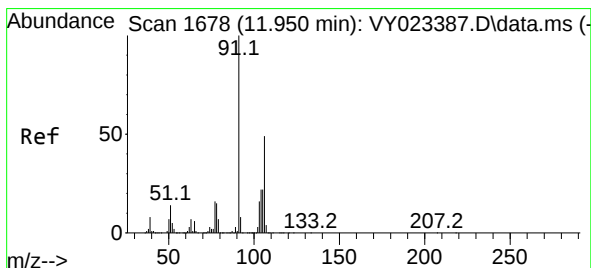
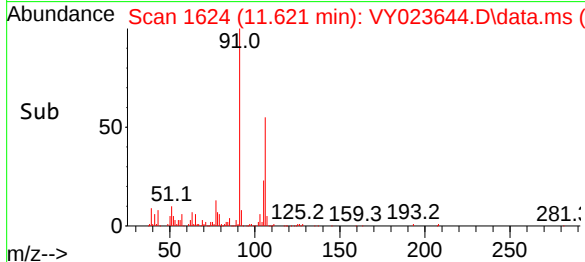
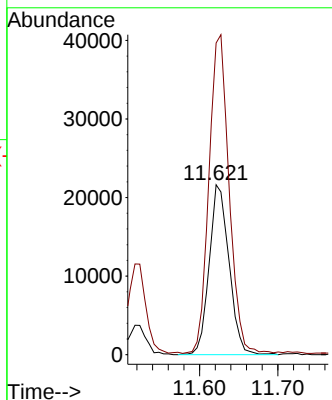
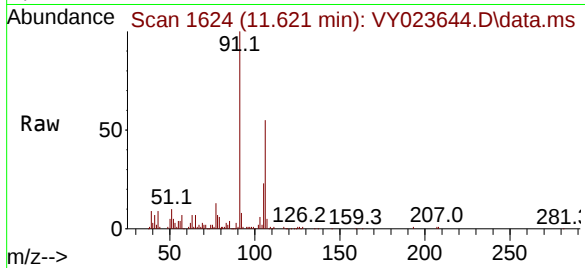




#68
m/p-Xylenes
Concen: 2.447 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

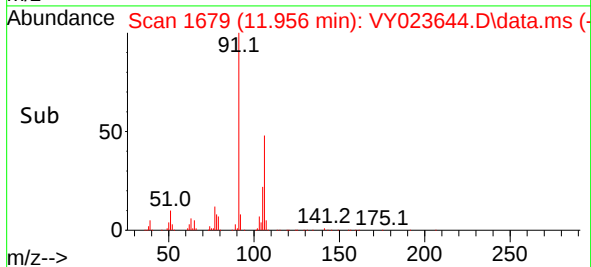
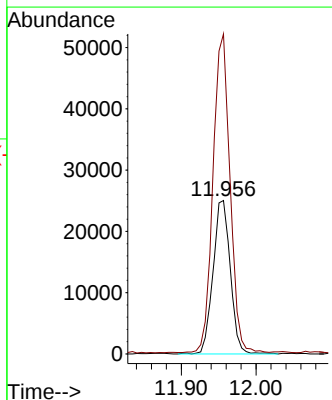
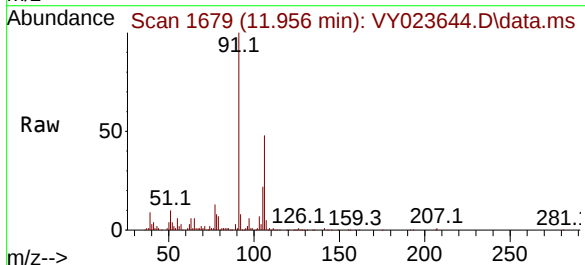
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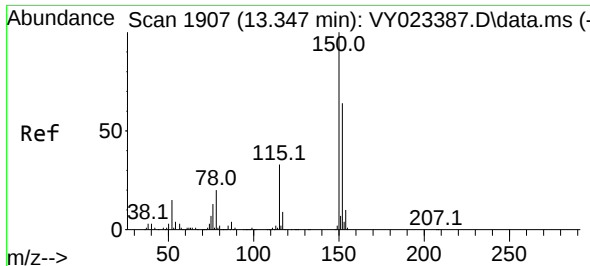
Tgt Ion:106 Resp: 38017
Ion Ratio Lower Upper
106 100
91 189.6 152.6 229.0



#69
o-Xylene
Concen: 2.761 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion:106 Resp: 40224
Ion Ratio Lower Upper
106 100
91 203.8 101.4 304.1

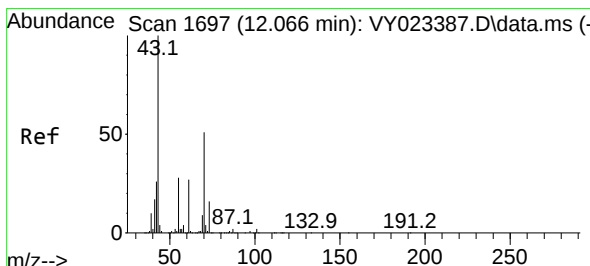
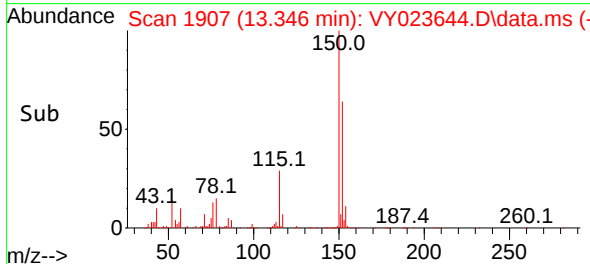
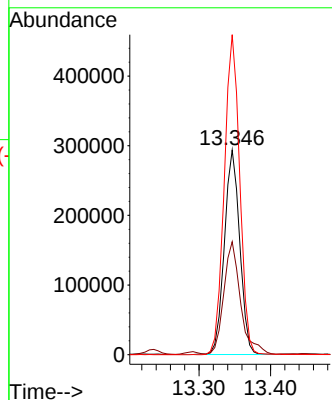
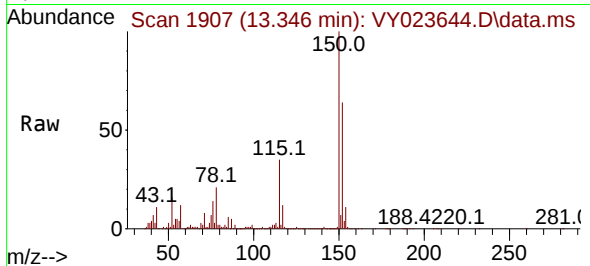




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY023644.D
 Acq: 31 Oct 2025 15:01

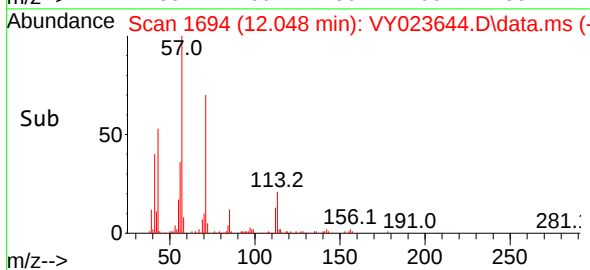
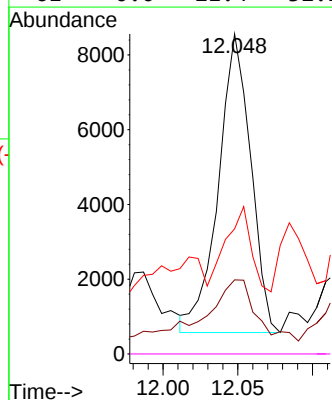
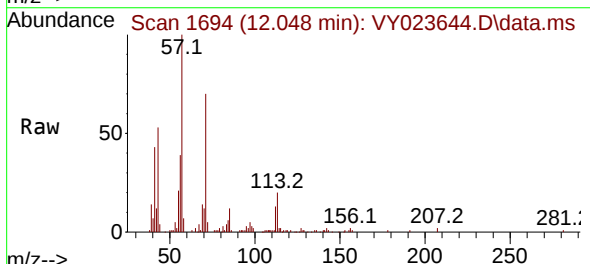
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-01-103125

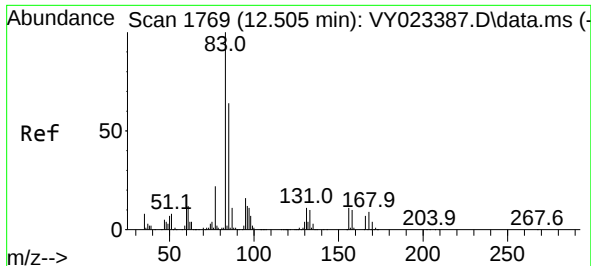
Tgt Ion:152 Resp: 437972
 Ion Ratio Lower Upper
 152 100
 115 59.7 27.1 81.2
 150 157.3 0.0 347.4



#74
 N-ethyl acetate
 Concen: 2.316 ug/l
 RT: 12.048 min Scan# 1694
 Delta R.T. -0.018 min
 Lab File: VY023644.D
 Acq: 31 Oct 2025 15:01

Tgt Ion: 43 Resp: 12007
 Ion Ratio Lower Upper
 43 100
 70 33.0 41.1 61.7#
 55 22.0 23.0 34.6#
 61 0.0 21.4 32.2#

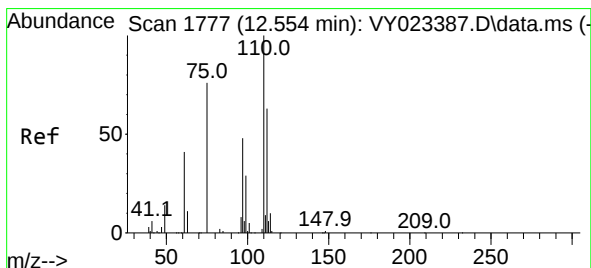
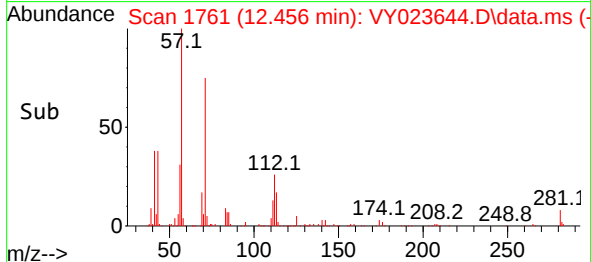
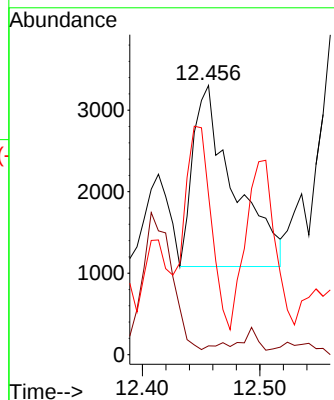
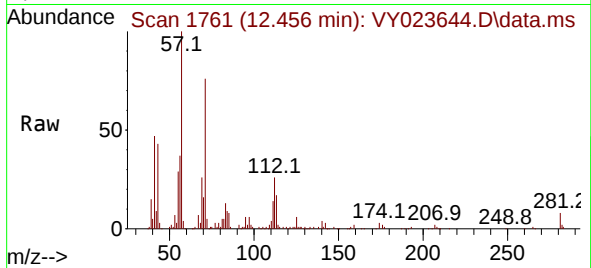




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.139 ug/l
 RT: 12.456 min Scan# 1753
 Delta R.T. -0.049 min
 Lab File: VY023644.D
 Acq: 31 Oct 2025 15:01

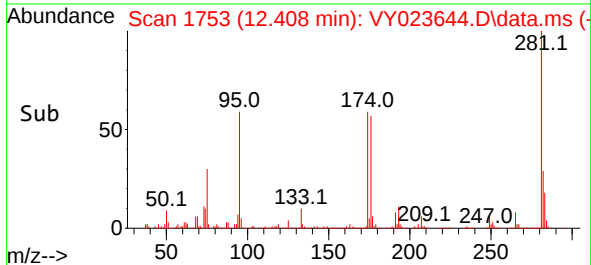
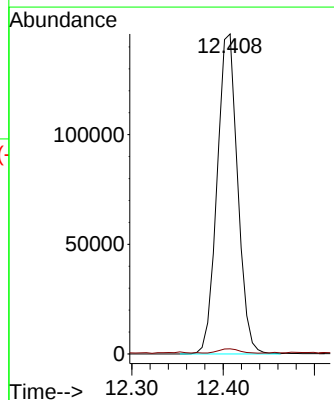
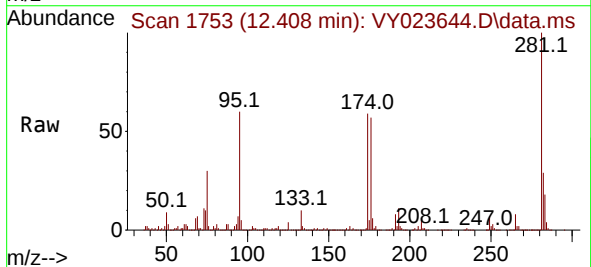
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-01-103125

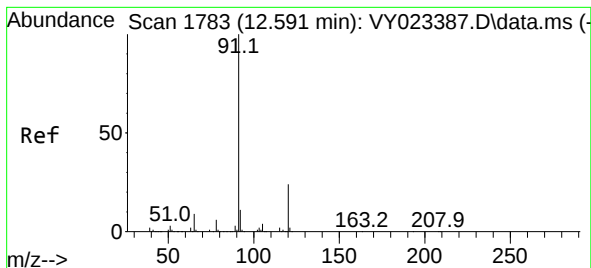
Tgt Ion: 83 Resp: 5376
 Ion Ratio Lower Upper
 83 100
 131 2.2 5.9 17.6#
 85 0.0 31.8 95.3#



#76
 1,2,3-Trichloropropane
 Concen: 58.953 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.146 min
 Lab File: VY023644.D
 Acq: 31 Oct 2025 15:01

Tgt Ion: 75 Resp: 227801
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#





#78

n-propylbenzene

Concen: 3.842 ug/l

RT: 12.590 min Scan# 1783

Delta R.T. -0.000 min

Lab File: VY023644.D

Acq: 31 Oct 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

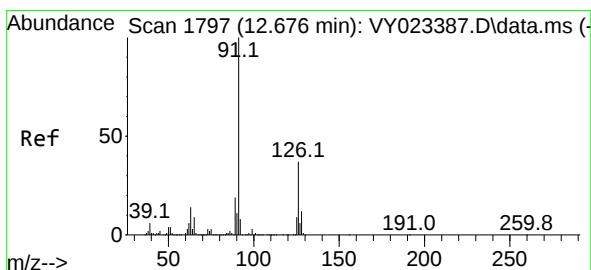
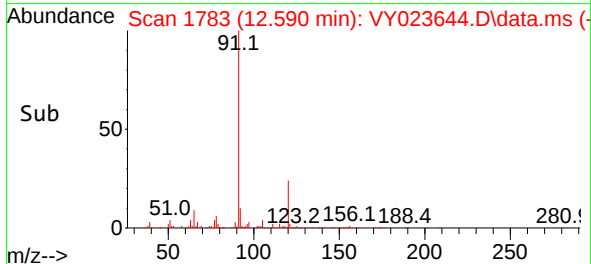
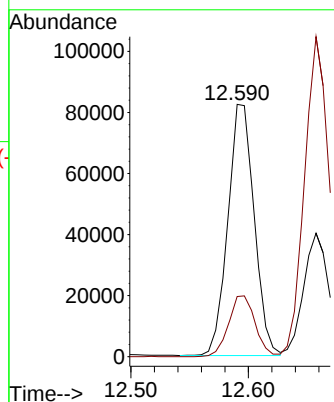
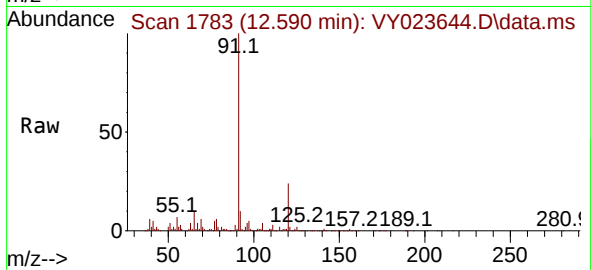
HD-01-103125

Tgt Ion: 91 Resp: 128336

Ion Ratio Lower Upper

91 100

120 24.6 12.3 36.8



#79

2-Chlorotoluene

Concen: 3.186 ug/l

RT: 12.658 min Scan# 1794

Delta R.T. -0.018 min

Lab File: VY023644.D

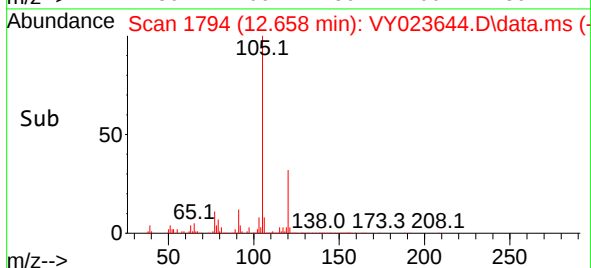
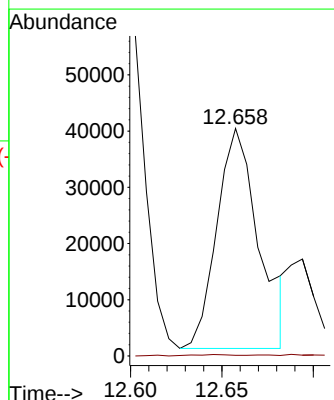
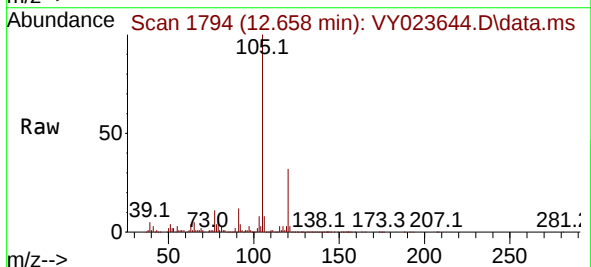
Acq: 31 Oct 2025 15:01

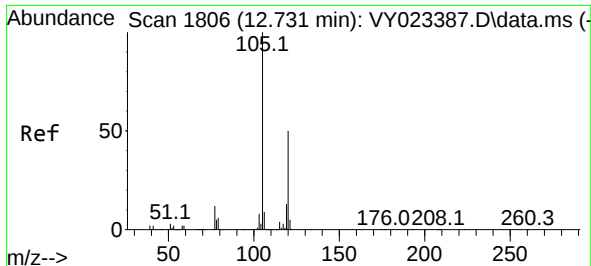
Tgt Ion: 91 Resp: 62312

Ion Ratio Lower Upper

91 100

126 0.6 18.5 55.5#

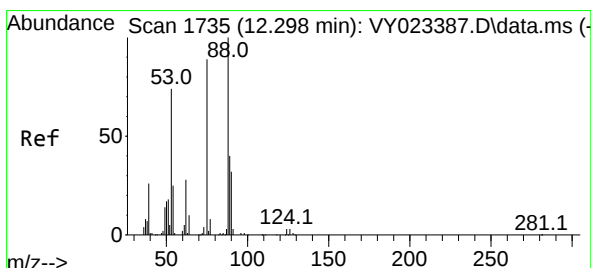
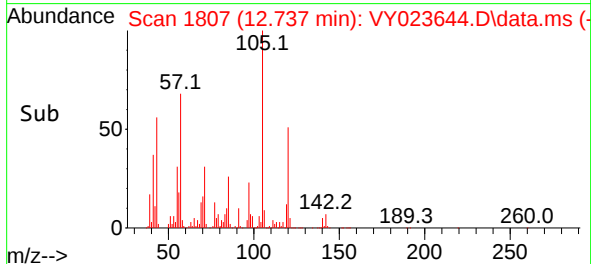
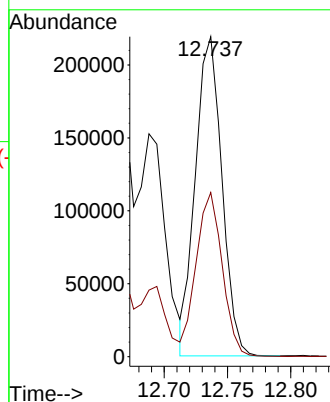
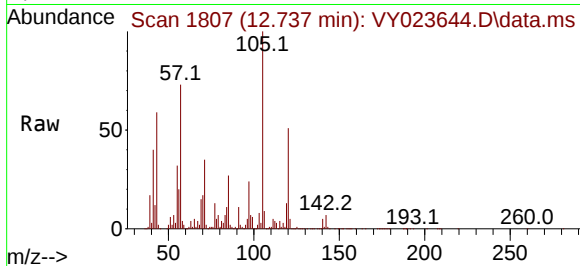




#80
 1,3,5-Trimethylbenzene
 Concen: 13.675 ug/l
 RT: 12.737 min Scan# 1806
 Delta R.T. 0.006 min
 Lab File: VY023644.D
 Acq: 31 Oct 2025 15:01

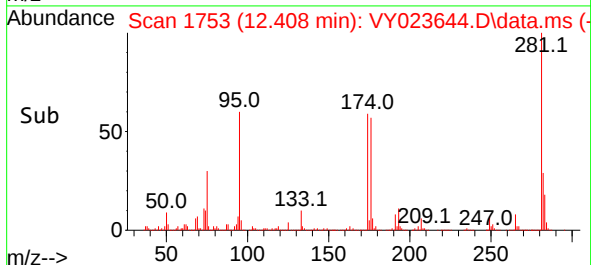
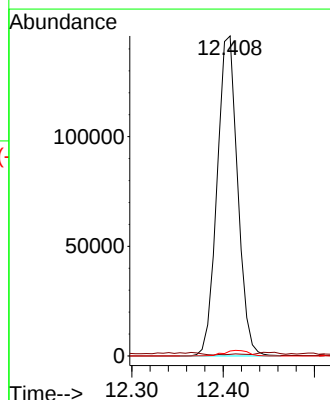
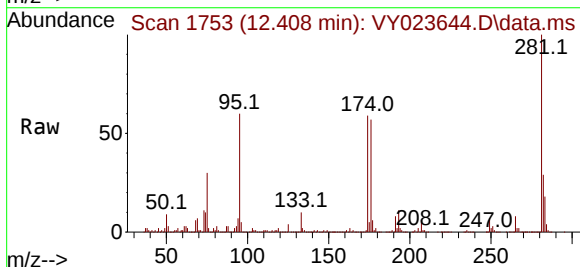
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-01-103125

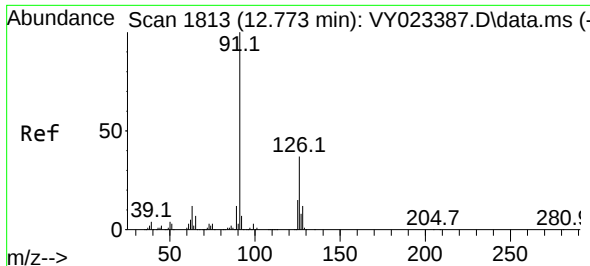
Tgt Ion:105 Resp: 318943
 Ion Ratio Lower Upper
 105 100
 120 50.8 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.565 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY023644.D
 Acq: 31 Oct 2025 15:01

Tgt Ion: 75 Resp: 227801
 Ion Ratio Lower Upper
 75 100
 53 0.4 68.6 102.8#
 89 2.1 39.0 58.4#

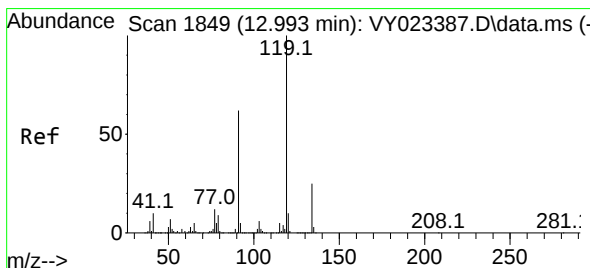
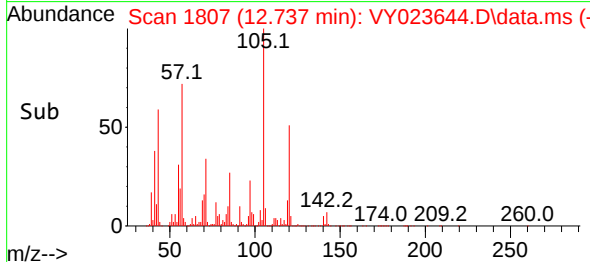
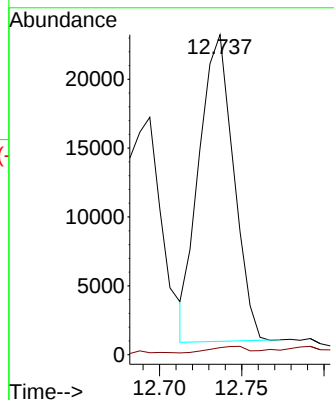
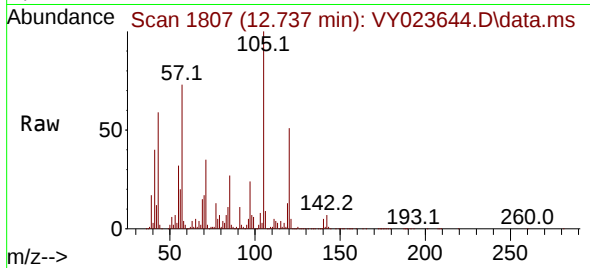




#82
4-Chlorotoluene
Concen: 1.614 ug/l
RT: 12.737 min Scan# 1813
Delta R.T. -0.037 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

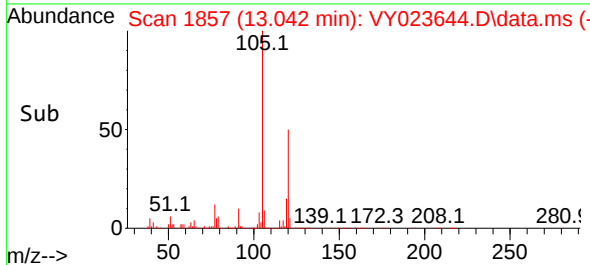
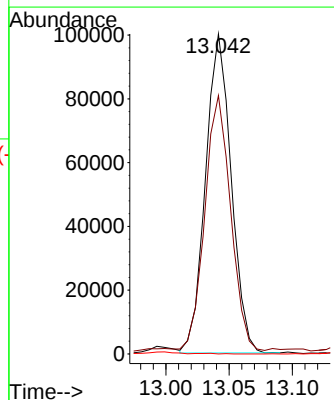
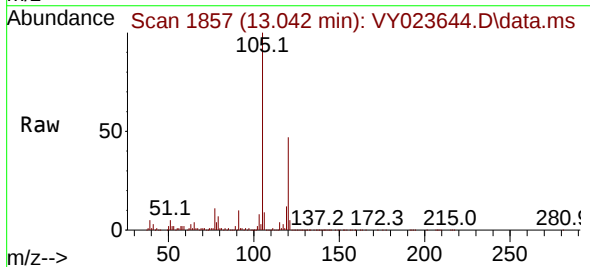
Instrument :
MSVOA_Y
ClientSampleId :
HD-01-103125

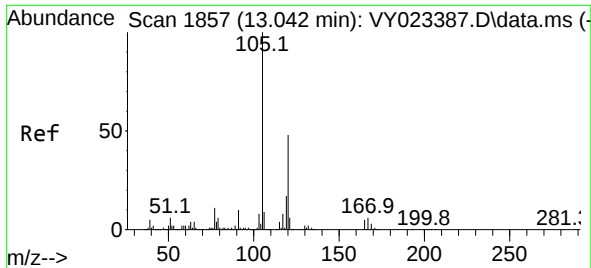
Tgt Ion: 91 Resp: 32506
Ion Ratio Lower Upper
91 100
126 2.3 18.4 55.4#



#83
tert-Butylbenzene
Concen: 6.568 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.049 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion: 119 Resp: 141436
Ion Ratio Lower Upper
119 100
91 80.1 29.9 89.8
134 0.0 12.9 38.7#

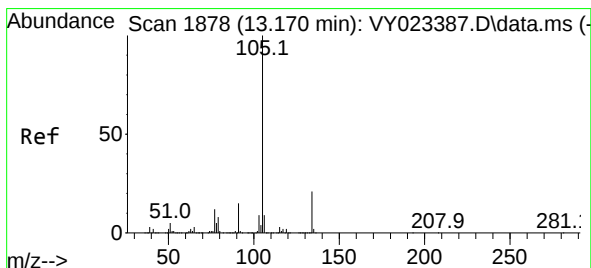
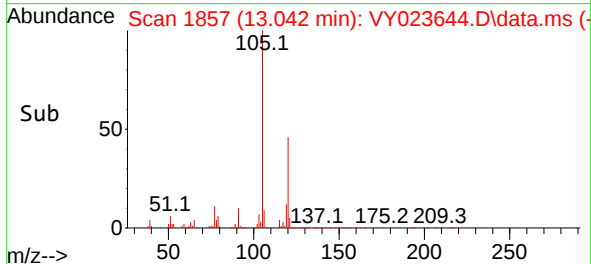
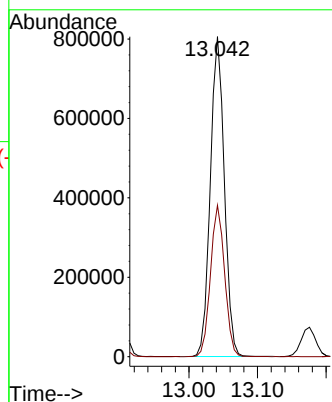
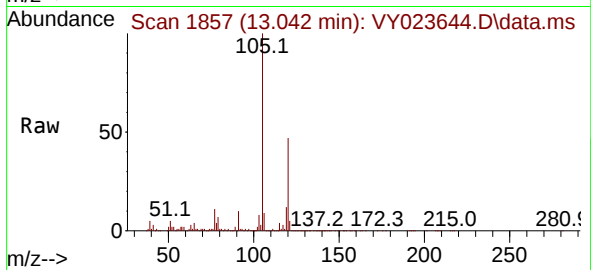




#84
1,2,4-Trimethylbenzene
Concen: 49.247 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

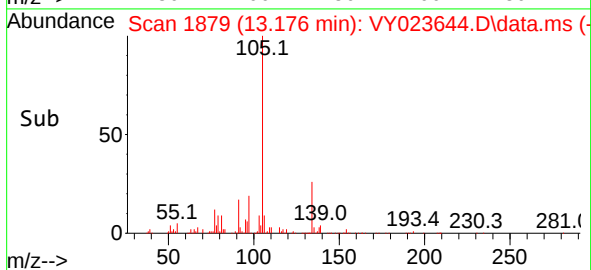
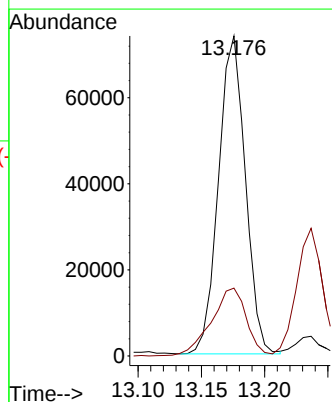
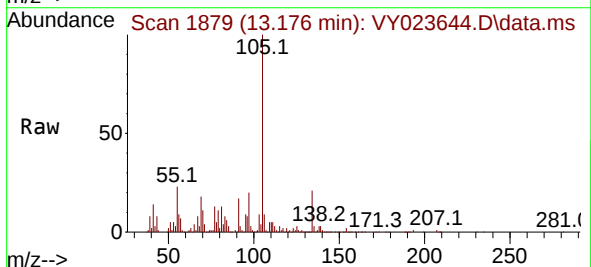
Instrument :
MSVOA_Y
ClientSampleId :
HD-01-103125

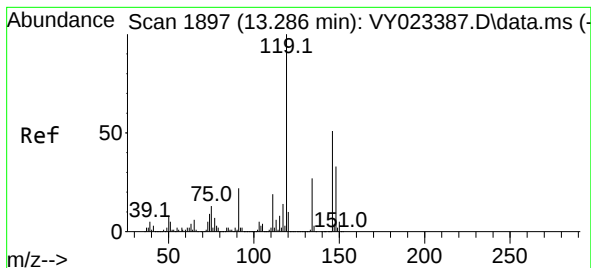
Tgt Ion:105 Resp: 1146305
Ion Ratio Lower Upper
105 100
120 47.7 23.8 71.2



#85
sec-Butylbenzene
Concen: 3.525 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023644.D
Acq: 31 Oct 2025 15:01

Tgt Ion:105 Resp: 108892
Ion Ratio Lower Upper
105 100
134 28.0 10.7 32.1





#86

p-Isopropyltoluene

Concen: 2.868 ug/l

RT: 13.292 min Scan# 119

Delta R.T. 0.006 min

Lab File: VY023644.D

Acq: 31 Oct 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

HD-01-103125

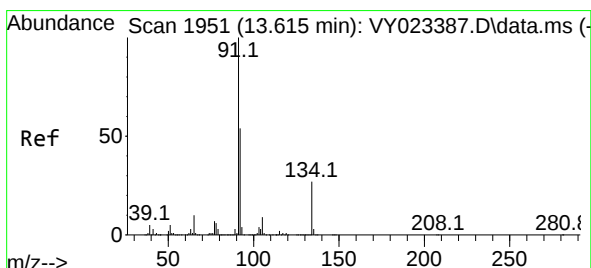
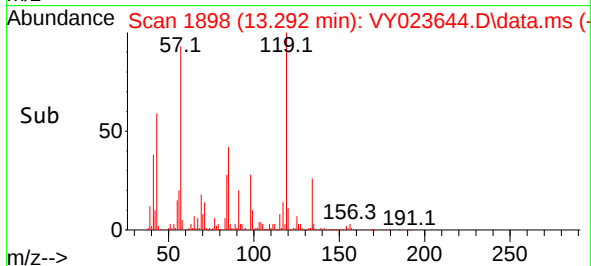
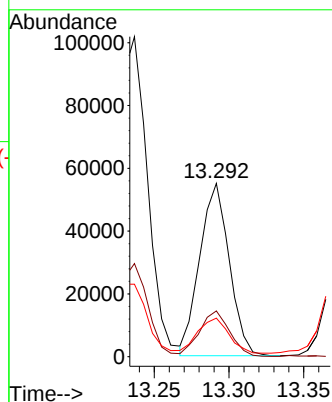
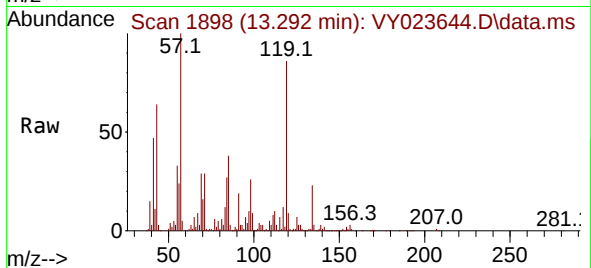
Tgt Ion:119 Resp: 75424

Ion Ratio Lower Upper

119 100

134 26.9 13.6 40.7

91 21.5 10.9 32.9



#89

n-Butylbenzene

Concen: 5.688 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.000 min

Lab File: VY023644.D

Acq: 31 Oct 2025 15:01

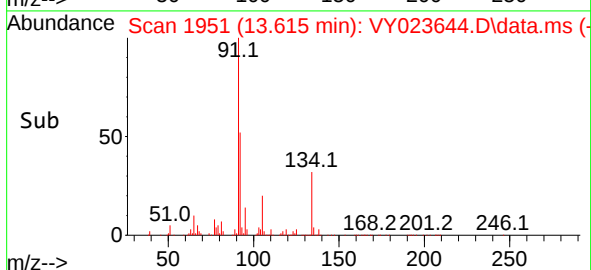
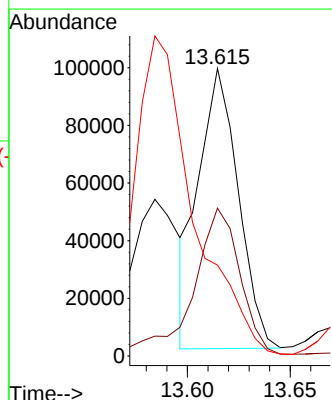
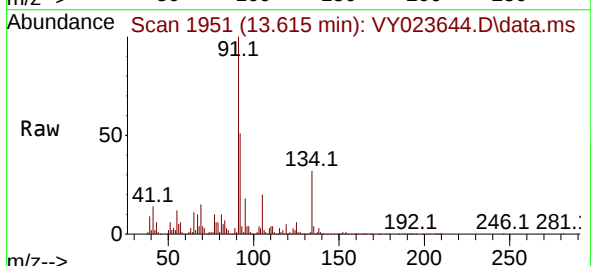
Tgt Ion: 91 Resp: 130364

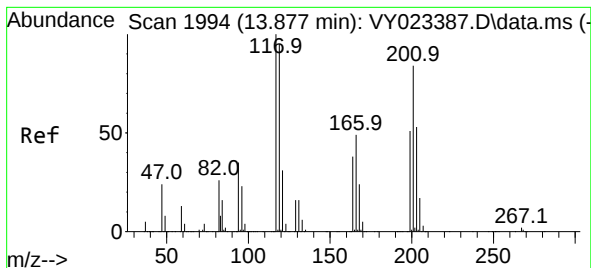
Ion Ratio Lower Upper

91 100

92 61.8 27.0 80.8

134 0.0 14.1 42.2#





#90

Hexachloroethane

Concen: 6.644 ug/l

RT: 13.889 min Scan# 1994

Delta R.T. 0.012 min

Lab File: VY023644.D

Acq: 31 Oct 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

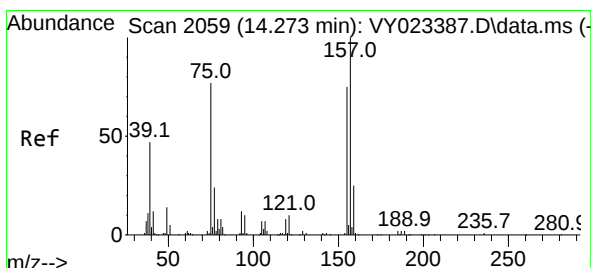
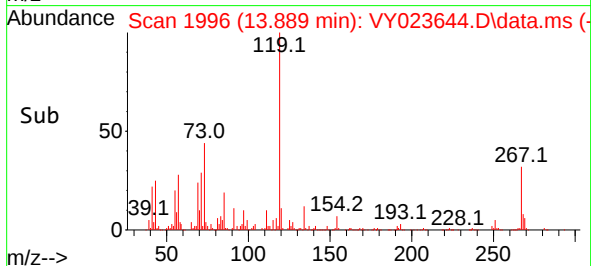
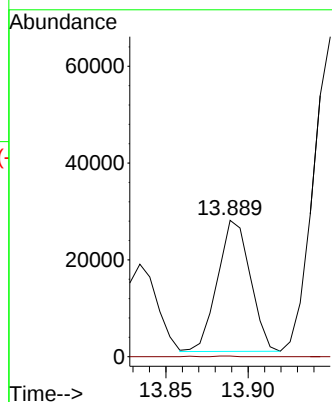
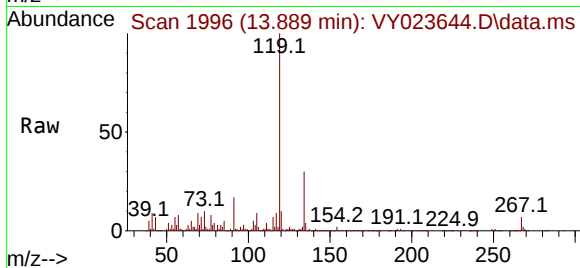
HD-01-103125

Tgt Ion:117 Resp: 37587

Ion Ratio Lower Upper

117 100

201 0.3 43.8 131.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.095 ug/l

RT: 14.297 min Scan# 2063

Delta R.T. 0.024 min

Lab File: VY023644.D

Acq: 31 Oct 2025 15:01

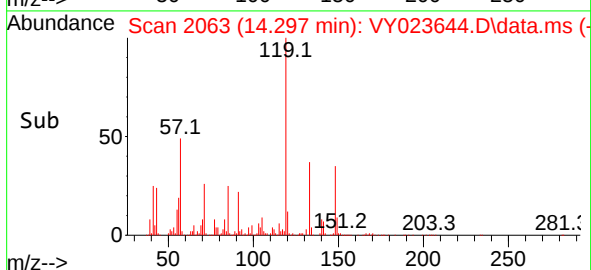
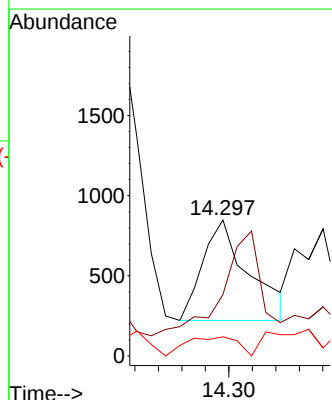
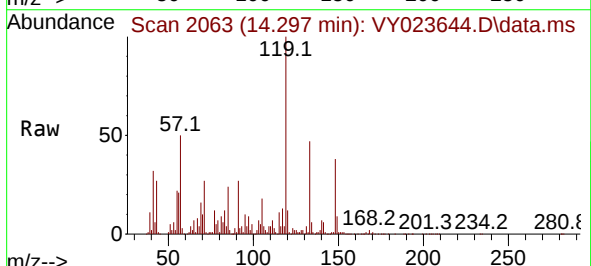
Tgt Ion: 75 Resp: 848

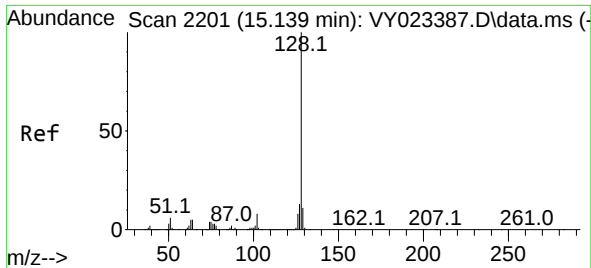
Ion Ratio Lower Upper

75 100

155 87.3 50.0 150.0

157 21.3 63.8 191.5#





#95

Naphthalene

Concen: 21.675 ug/l

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY023644.D

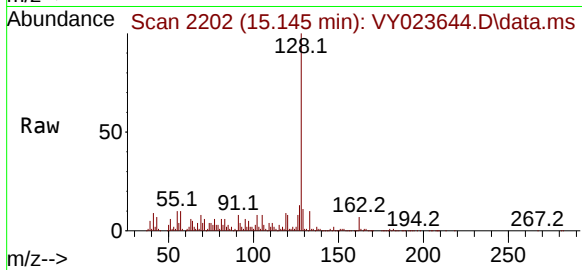
Acq: 31 Oct 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

HD-01-103125



Tgt Ion:128 Resp: 281877

Ion Ratio Lower Upper

128 100

127 14.2 10.4 15.6

129 12.4 8.9 13.3

