

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052825\
 Data File : VY022448.D
 Acq On : 28 May 2025 13:52
 Operator : SY/MD
 Sample : Q2113-01
 Misc : 5.18g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-05222025

Quant Time: May 29 01:57:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 28 10:34:06 2025
 Response via : Initial Calibration

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

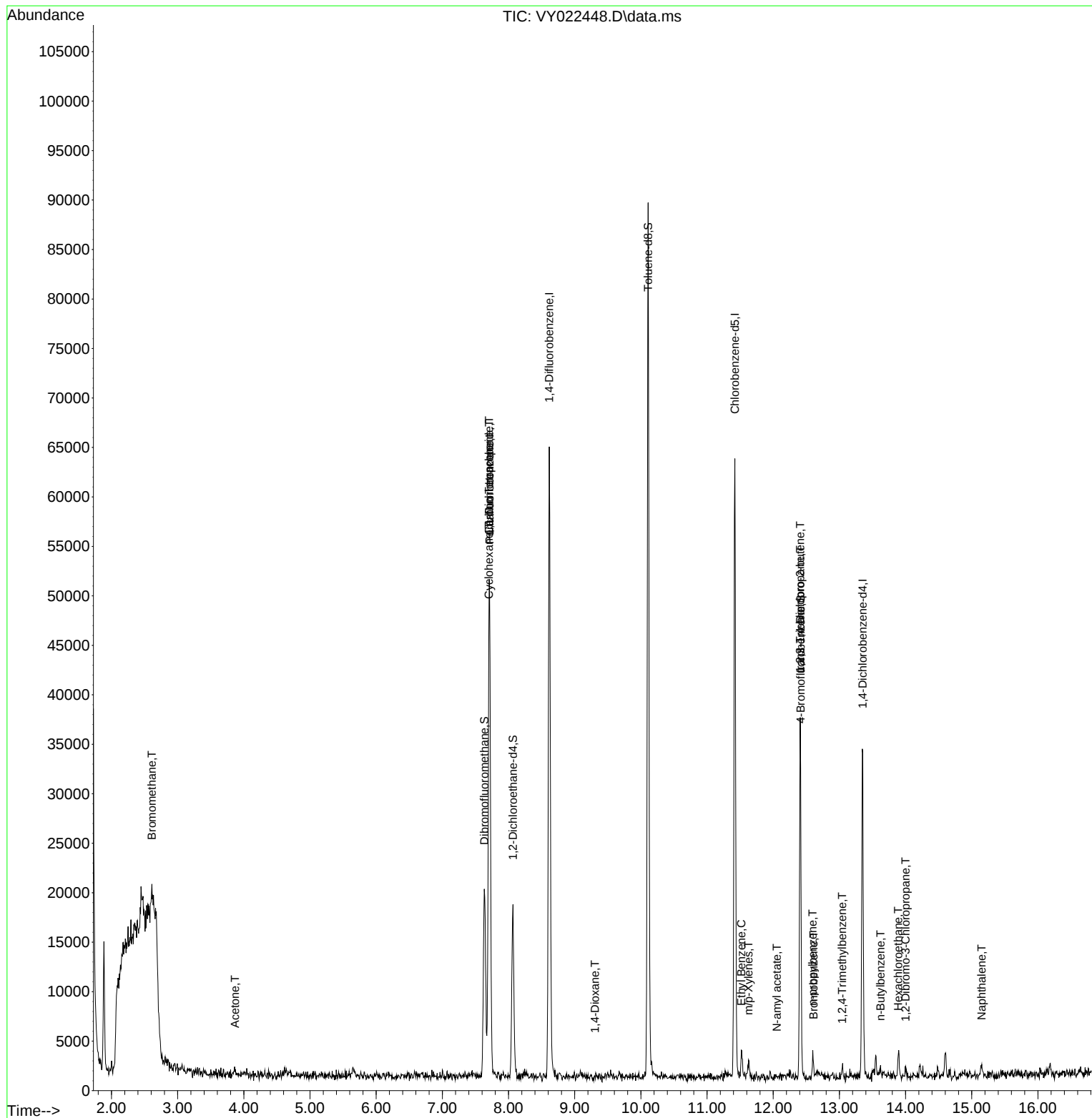
Internal Standards						
1) Pentafluorobenzene	7.713	168	38386	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	51951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	31663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	7955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	12633	31.245	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	62.480%		
35) Dibromofluoromethane	7.634	113	13043	42.871	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	85.740%		
50) Toluene-d8	10.109	98	57144	46.074	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.140%		
62) 4-Bromofluorobenzene	12.414	95	10225	27.255	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	54.520%		
Target Compounds						Qvalue
5) Bromomethane	2.611	94	1660	1.669	ug/l	99
16) Acetone	3.867	43	232	3.492	ug/l #	49
31) Cyclohexane	7.701	56	1265	1.627	ug/l #	65
36) 1,1-Dichloropropene	7.707	75	3245	6.721	ug/l #	46
38) Carbon Tetrachloride	7.707	117	3797	7.550	ug/l #	12
49) 1,4-Dioxane	9.305	88	25	12.004	ug/l #	1
67) Ethyl Benzene	11.518	91	2136	1.704	ug/l	98
68) m/p-Xylenes	11.627	106	618	1.300	ug/l	92
74) N-amyl acetate	12.054	43	169	1.103	ug/l #	44
76) 1,2,3-Trichloropropane	12.408	75	5953	74.709	ug/l #	100
77) Bromobenzene	12.609	156	162	1.202	ug/l #	19
78) n-propylbenzene	12.597	91	1550	2.063	ug/l #	76
81) trans-1,4-Dichloro-2-b...	12.408	75	5953	168.951	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.042	105	646	1.312	ug/l	100
89) n-Butylbenzene	13.621	91	590	1.150	ug/l	79
90) Hexachloroethane	13.889	117	194	1.781	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	13.999	75	62	4.068	ug/l #	1
95) Naphthalene	15.151	128	1200	5.171	ug/l #	80

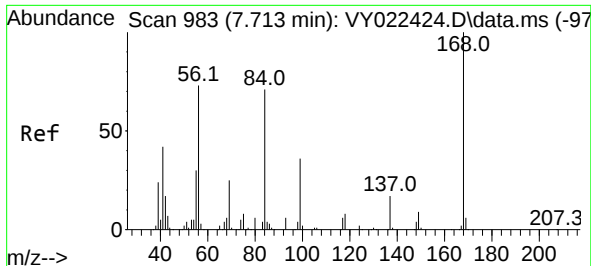
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052825\
Data File : VY022448.D
Acq On : 28 May 2025 13:52
Operator : SY/MD
Sample : Q2113-01
Misc : 5.18g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

Quant Time: May 29 01:57:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

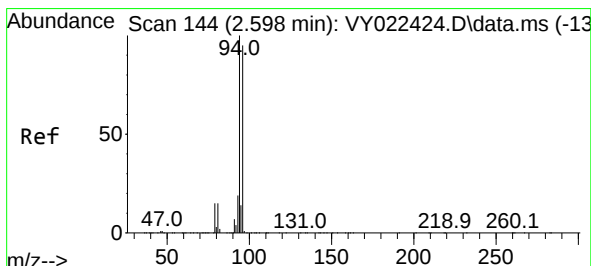
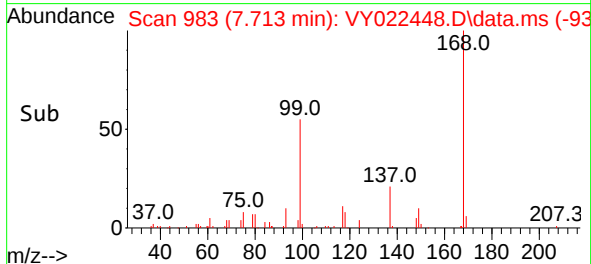
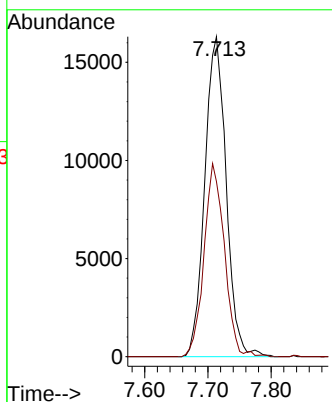
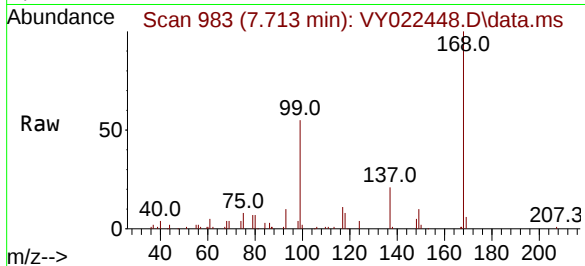




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

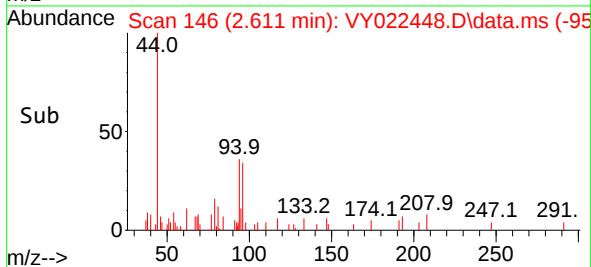
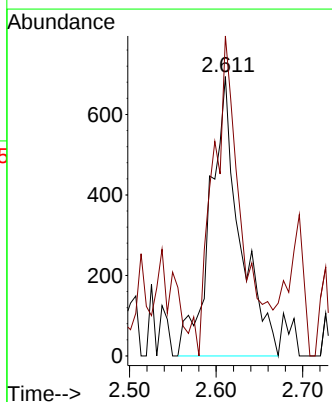
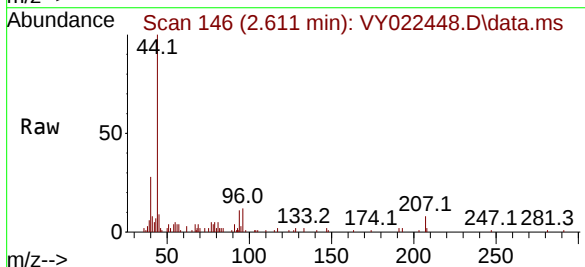
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

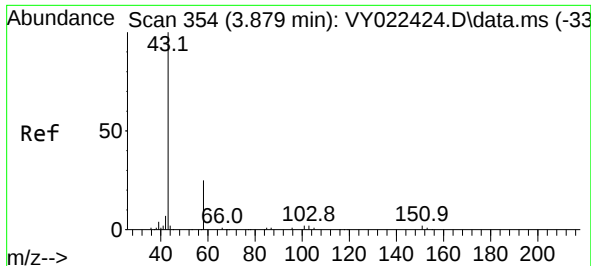
Tgt Ion:168 Resp: 38386
Ion Ratio Lower Upper
168 100
99 54.7 44.7 67.1



#5
Bromomethane
Concen: 1.669 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Tgt Ion: 94 Resp: 1660
Ion Ratio Lower Upper
94 100
96 95.7 76.0 114.0

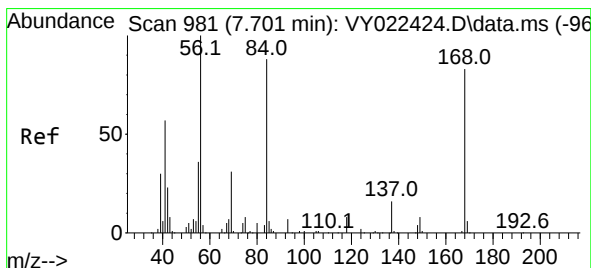
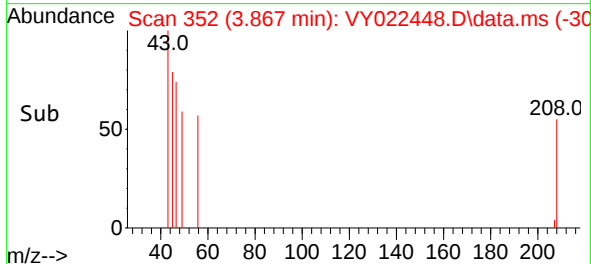
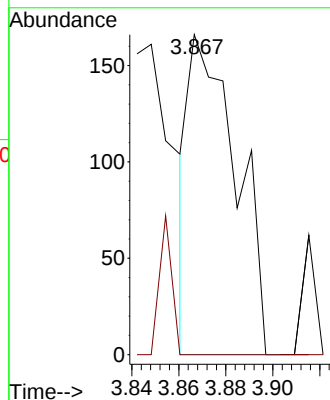
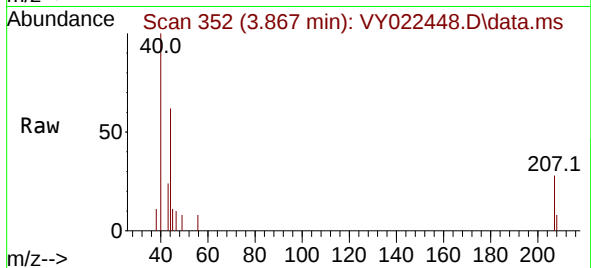




#16
Acetone
Concen: 3.492 ug/l
RT: 3.867 min Scan# 316
Delta R.T. -0.012 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

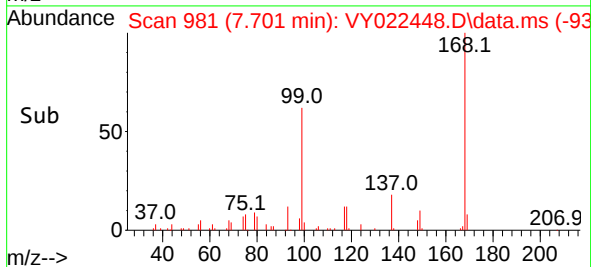
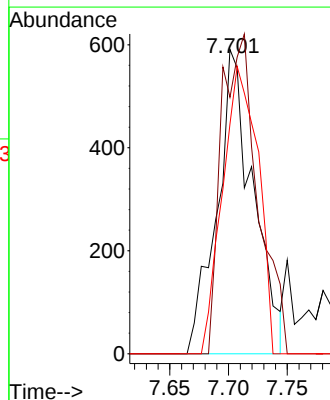
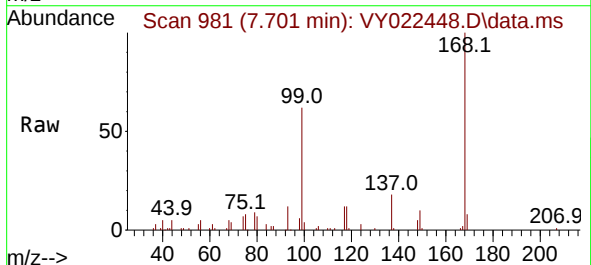
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

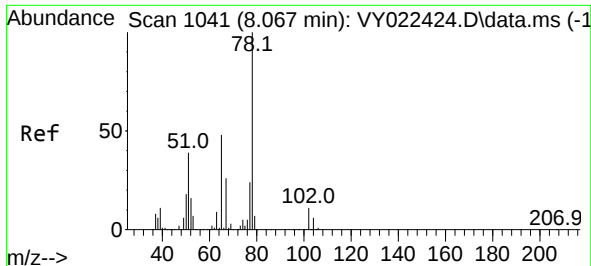
Tgt Ion: 43 Resp: 232
Ion Ratio Lower Upper
43 100
58 0.0 20.6 30.8#



#31
Cyclohexane
Concen: 1.627 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Tgt Ion: 56 Resp: 1265
Ion Ratio Lower Upper
56 100
69 84.3 24.6 36.8#
84 75.5 70.4 105.6





#33

1,2-Dichloroethane-d4

Concen: 31.245 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

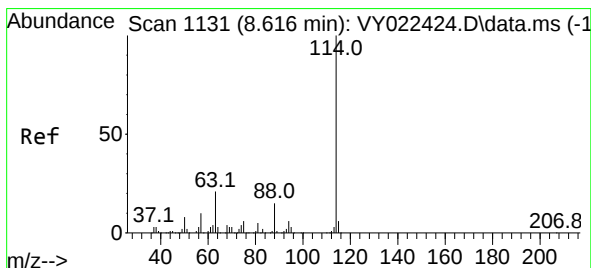
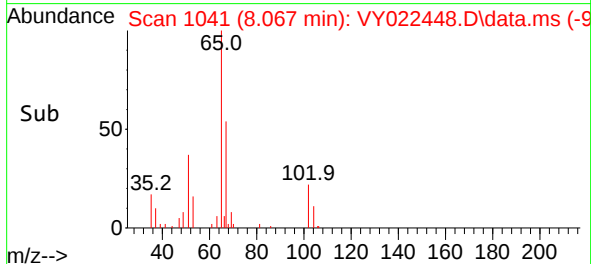
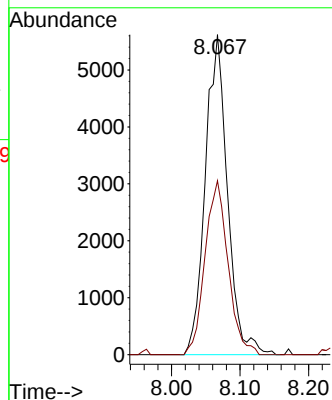
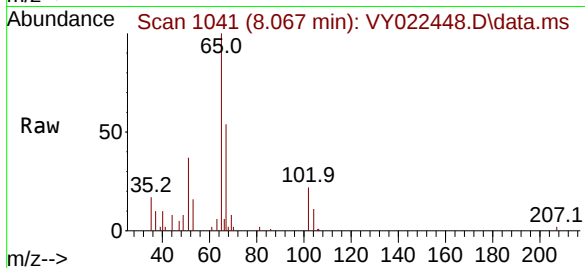
HD-02-05222025

Tgt Ion: 65 Resp: 12633

Ion Ratio Lower Upper

65 100

67 56.5 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

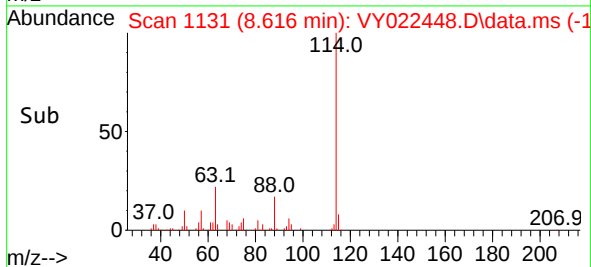
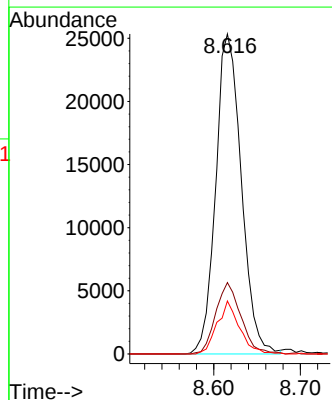
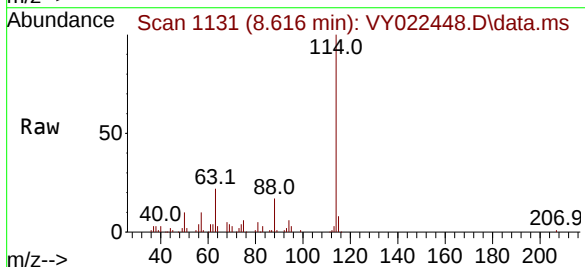
Tgt Ion: 114 Resp: 51951

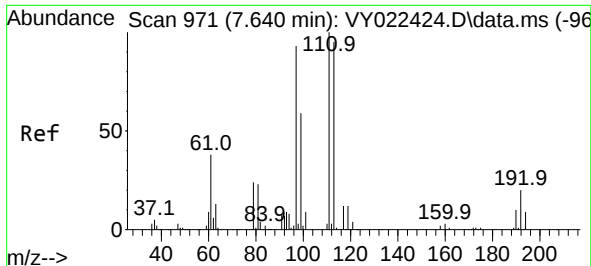
Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.6

88 16.6 0.0 29.4

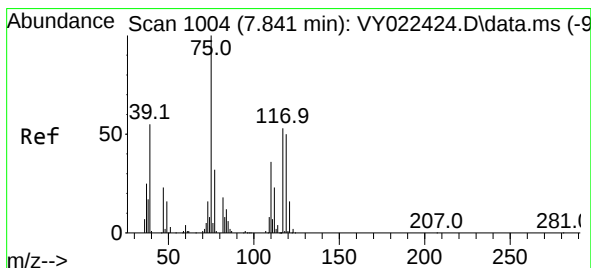
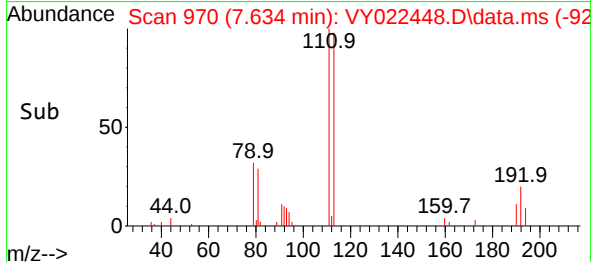
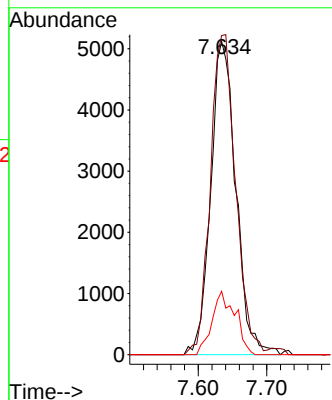
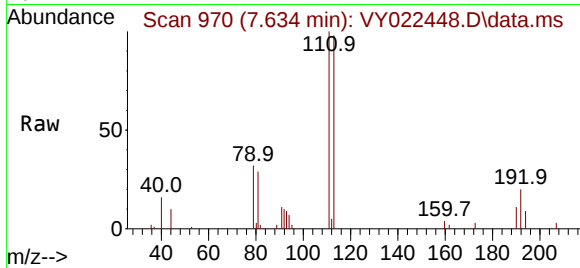




#35
 Dibromofluoromethane
 Concen: 42.871 ug/l
 RT: 7.634 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VY022448.D
 Acq: 28 May 2025 13:52

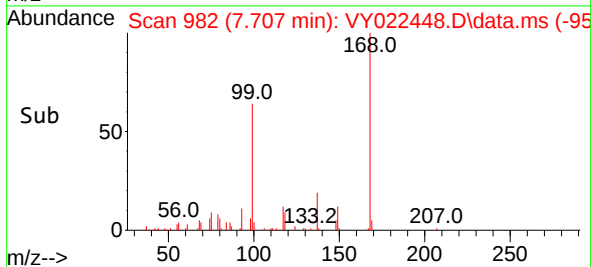
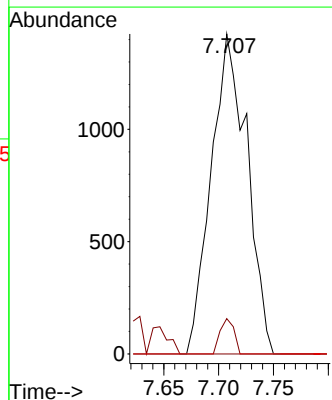
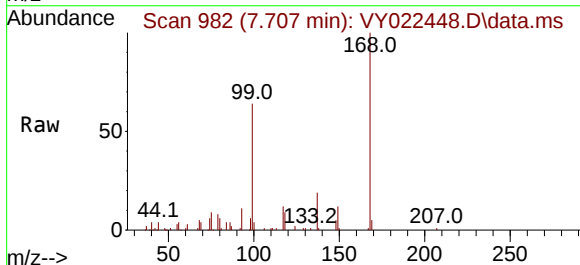
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-05222025

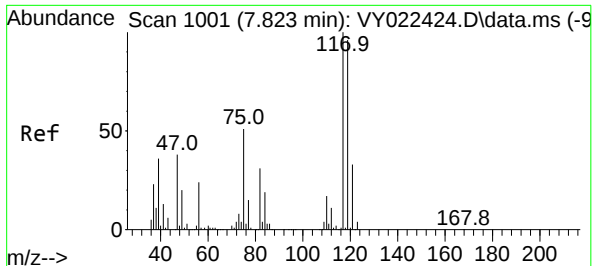
Tgt Ion:113	Resp:	13043	
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	18.7	15.2	22.8



#36
 1,1-Dichloropropene
 Concen: 6.721 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.134 min
 Lab File: VY022448.D
 Acq: 28 May 2025 13:52

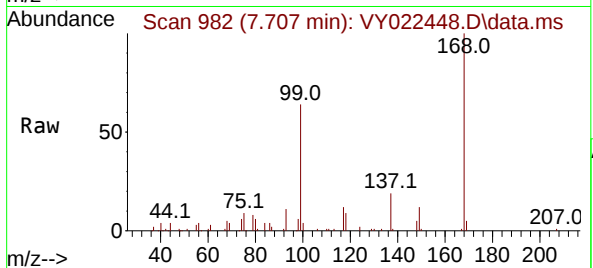
Tgt Ion: 75	Resp:	3245	
Ion Ratio	Lower	Upper	
75 100			
110 4.3	17.1	51.2#	
77 0.0	25.1	37.7#	



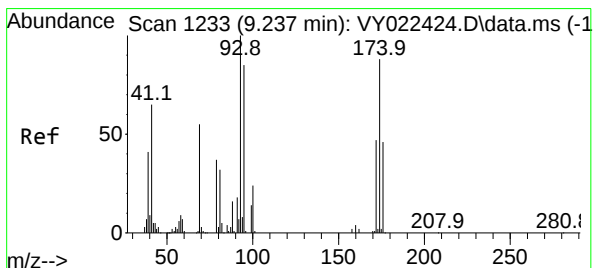
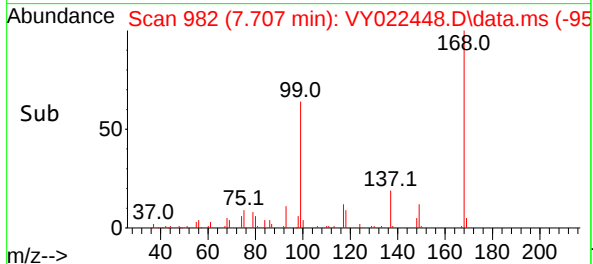
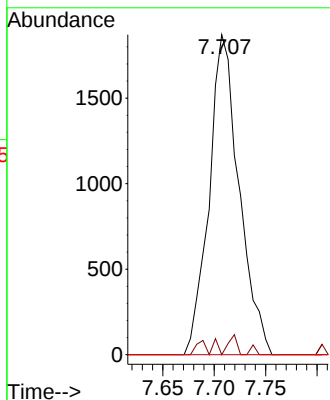


#38
Carbon Tetrachloride
Concen: 7.550 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

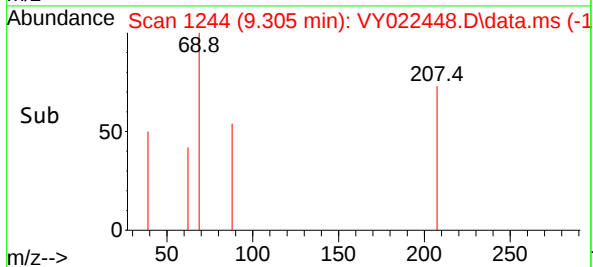
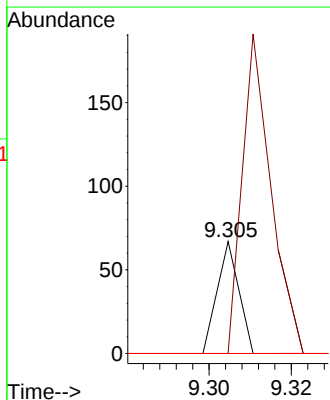
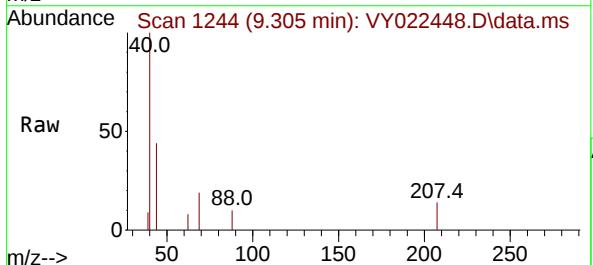


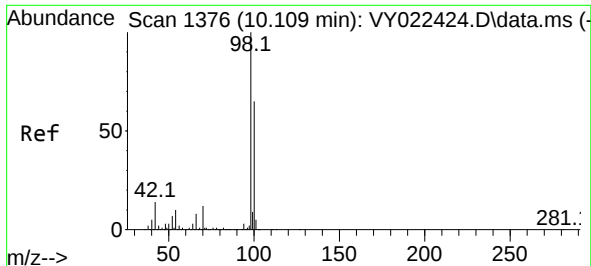
Tgt Ion:117 Resp: 3797
Ion Ratio Lower Upper
117 100
119 0.0 76.3 114.5#
121 0.0 26.1 39.1#



#49
1,4-Dioxane
Concen: 12.004 ug/l
RT: 9.305 min Scan# 1244
Delta R.T. 0.067 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 372.0 26.9 40.3#
58 0.0 55.8 83.6#

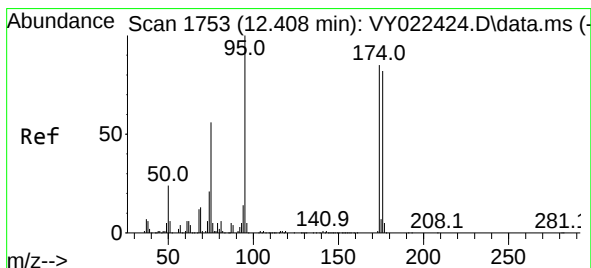
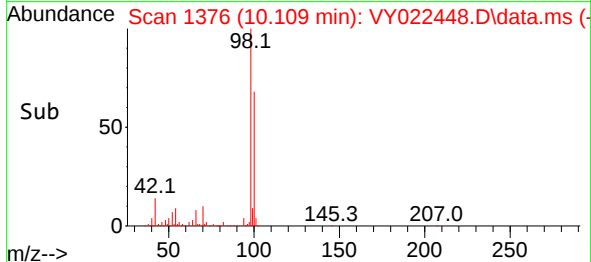
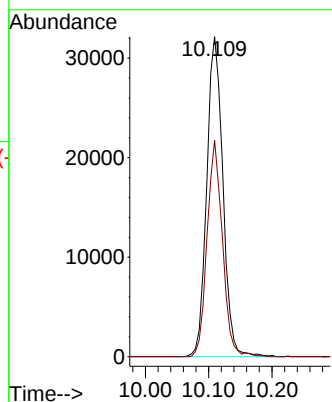
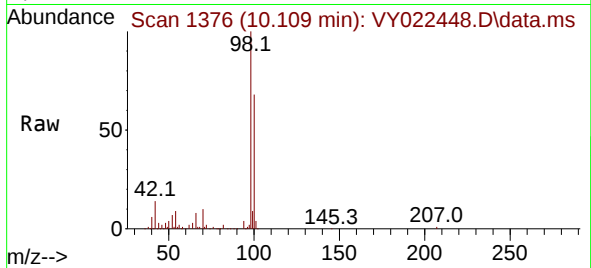




#50
Toluene-d8
Concen: 46.074 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

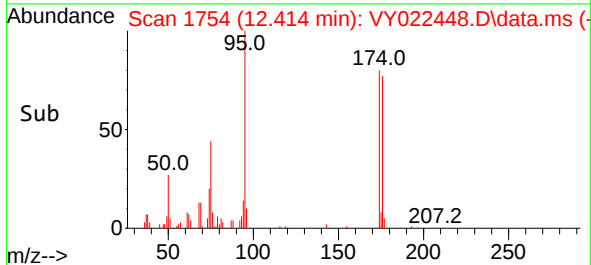
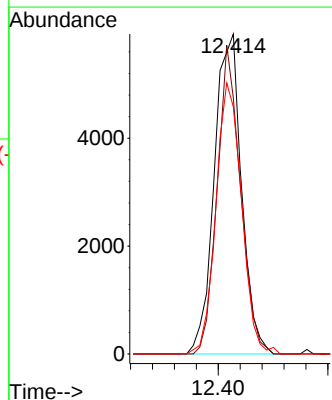
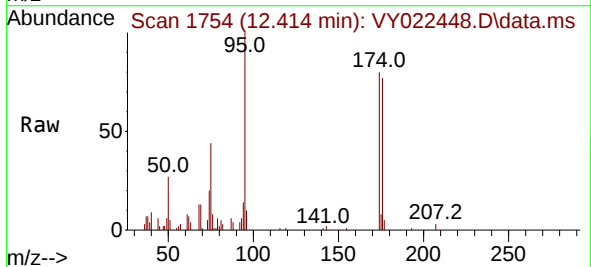
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

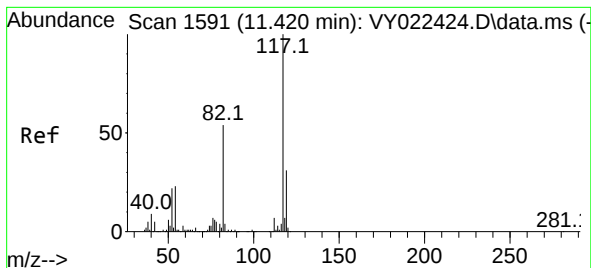
Tgt Ion: 98 Resp: 57144
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 27.255 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Tgt Ion: 95 Resp: 10225
Ion Ratio Lower Upper
95 100
174 82.5 0.0 171.6
176 79.9 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 117

Delta R.T. 0.000 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-05222025

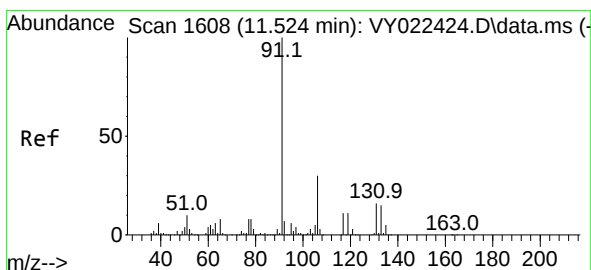
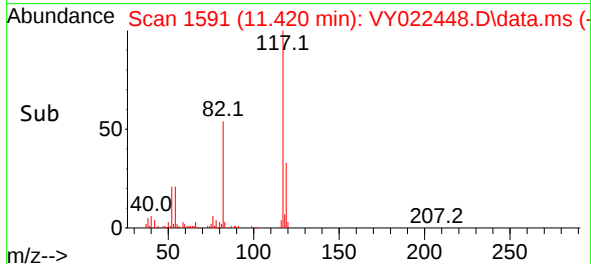
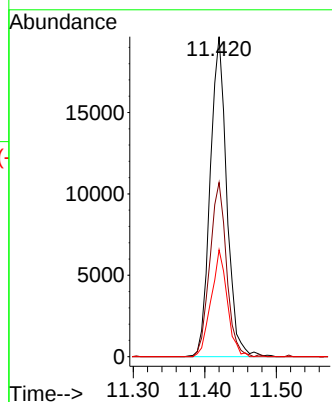
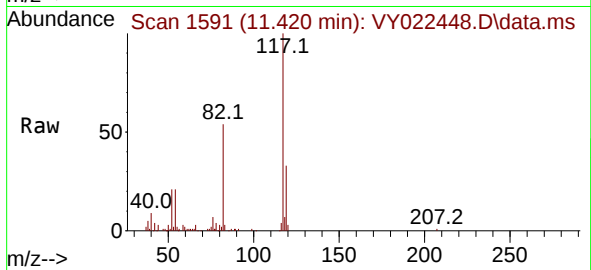
Tgt Ion:117 Resp: 31663

Ion Ratio Lower Upper

117 100

82 54.5 43.3 64.9

119 33.4 24.5 36.7



#67

Ethyl Benzene

Concen: 1.704 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY022448.D

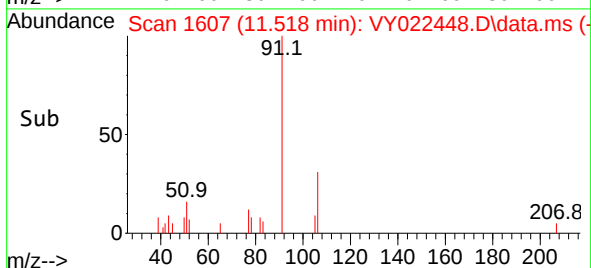
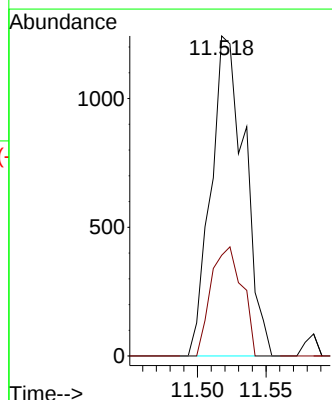
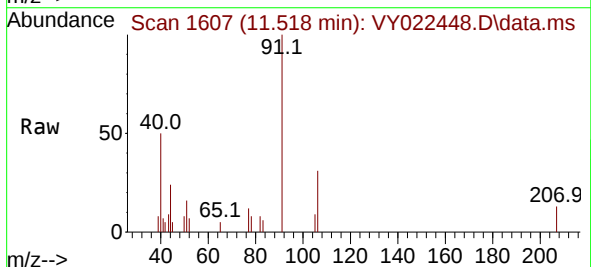
Acq: 28 May 2025 13:52

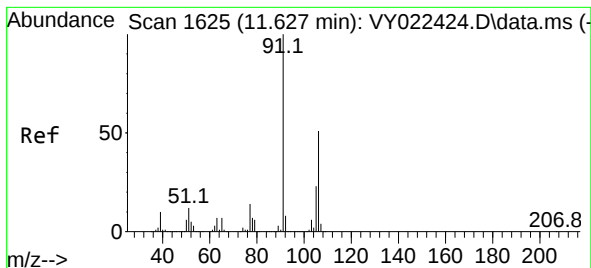
Tgt Ion: 91 Resp: 2136

Ion Ratio Lower Upper

91 100

106 31.5 24.4 36.6

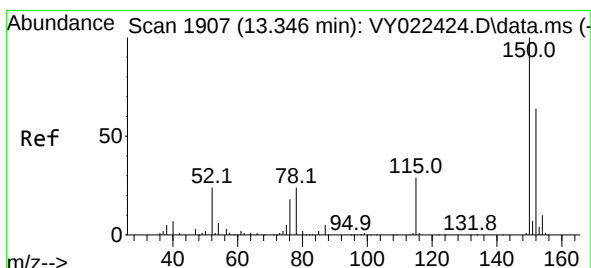
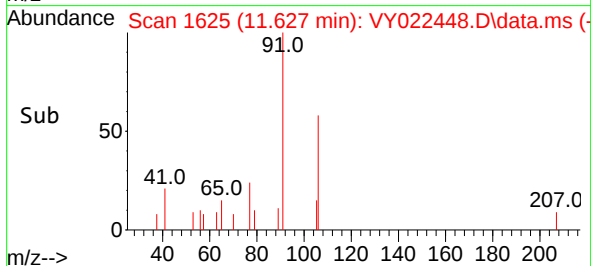
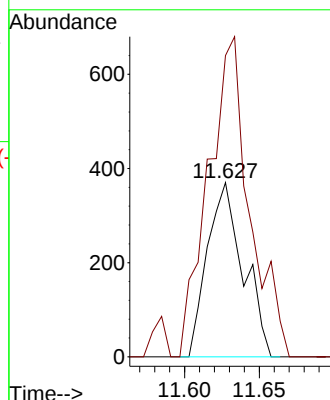
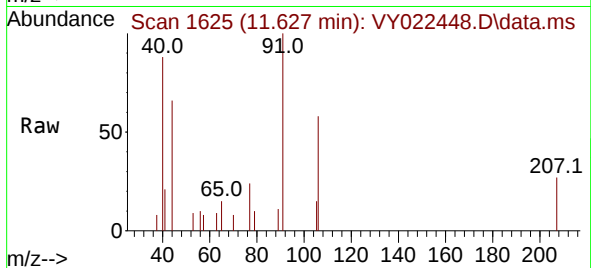




#68
m/p-Xylenes
Concen: 1.300 ug/l
RT: 11.627 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

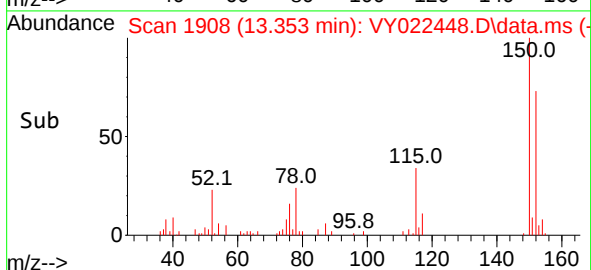
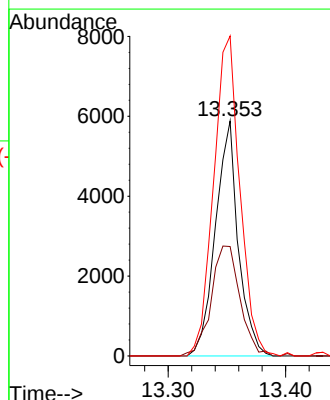
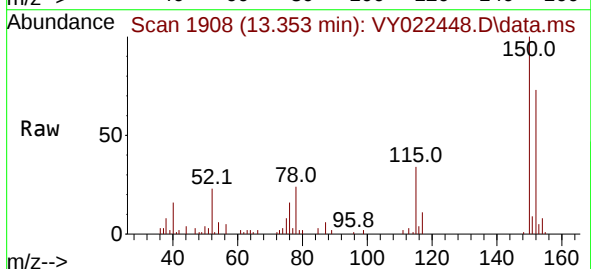
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

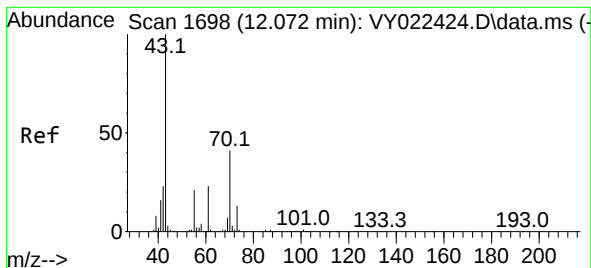
Tgt Ion:106 Resp: 618
Ion Ratio Lower Upper
106 100
91 211.8 159.8 239.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Tgt Ion:152 Resp: 7955
Ion Ratio Lower Upper
152 100
115 59.0 28.4 85.3
150 156.0 0.0 345.8





#74

N-amy1 acetate

Concen: 1.103 ug/l

RT: 12.054 min Scan# 1

Delta R.T. -0.018 min

Lab File: VY022448.D

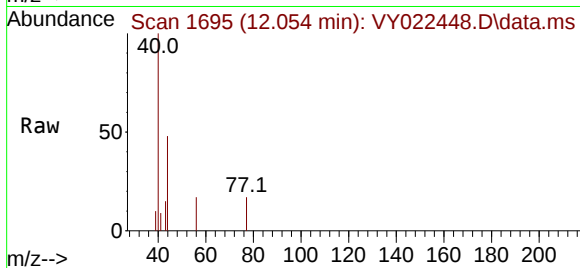
Acq: 28 May 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-05222025



Tgt Ion: 43 Resp: 169

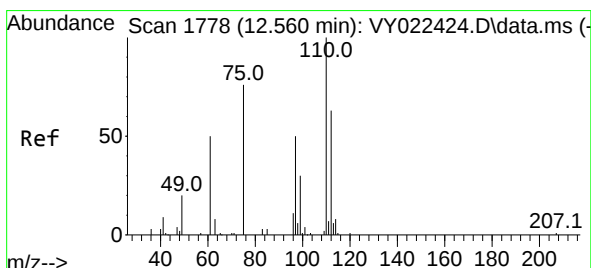
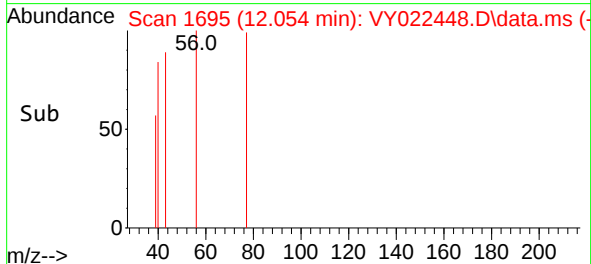
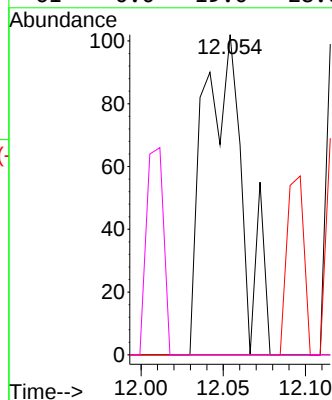
Ion Ratio Lower Upper

43 100

70 0.0 33.0 49.4#

55 0.0 17.5 26.3#

61 0.0 19.0 28.6#



#76

1,2,3-Trichloropropane

Concen: 74.709 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY022448.D

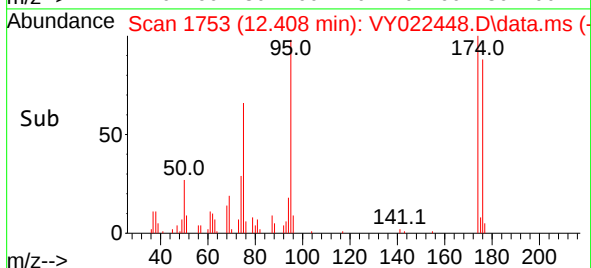
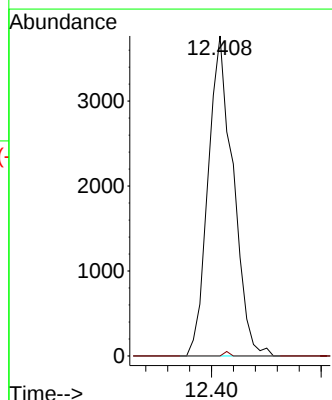
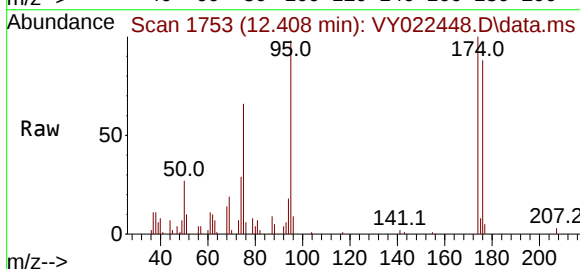
Acq: 28 May 2025 13:52

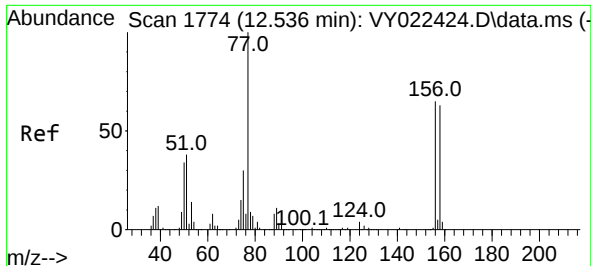
Tgt Ion: 75 Resp: 5953

Ion Ratio Lower Upper

75 100

77 0.3 0.0 0.0#

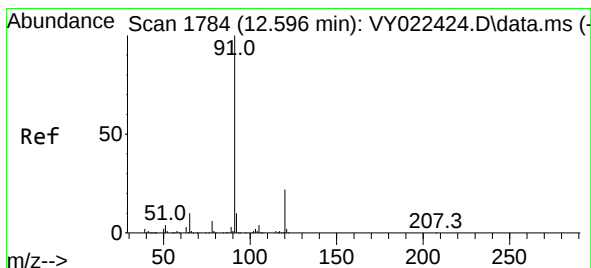
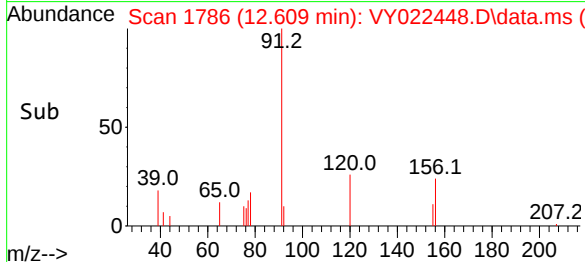
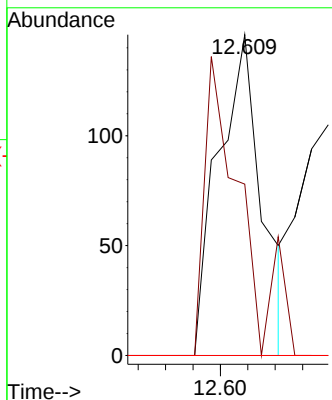
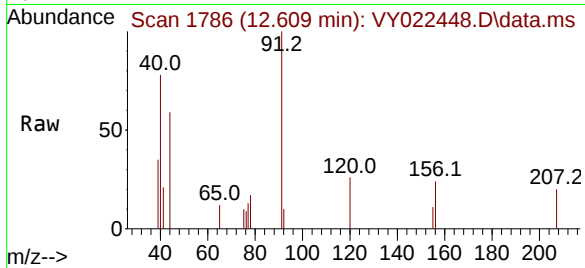




#77
Bromobenzene
Concen: 1.202 ug/l
RT: 12.609 min Scan# 1774
Delta R.T. 0.073 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

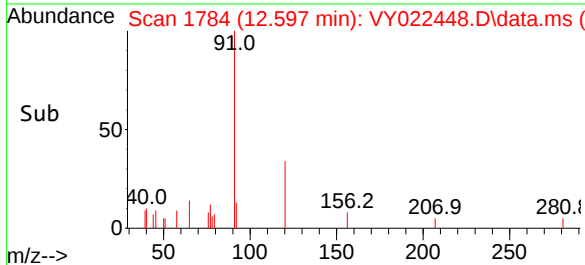
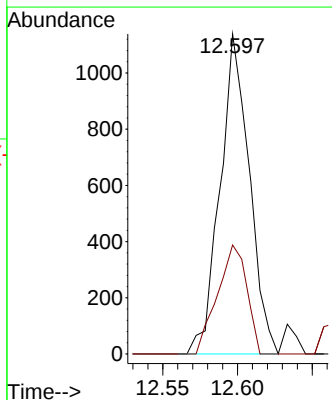
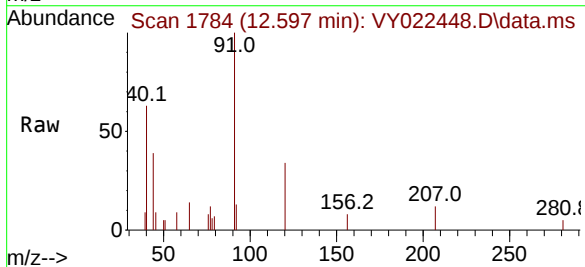
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-05222025

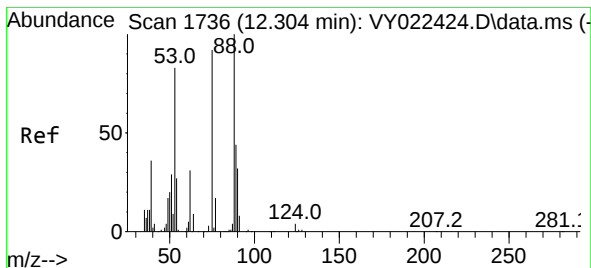
Tgt Ion:156 Resp: 162
Ion Ratio Lower Upper
156 100
77 79.0 91.4 274.2#
158 0.0 48.1 144.3#



#78
n-propylbenzene
Concen: 2.063 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022448.D
Acq: 28 May 2025 13:52

Tgt Ion: 91 Resp: 1550
Ion Ratio Lower Upper
91 100
120 34.0 11.2 33.5#

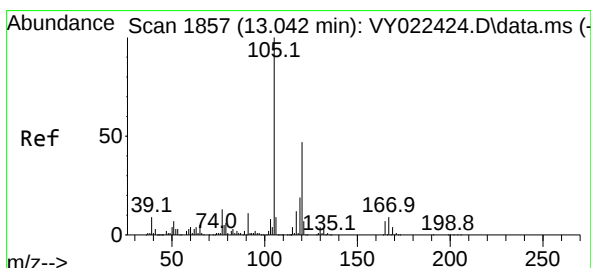
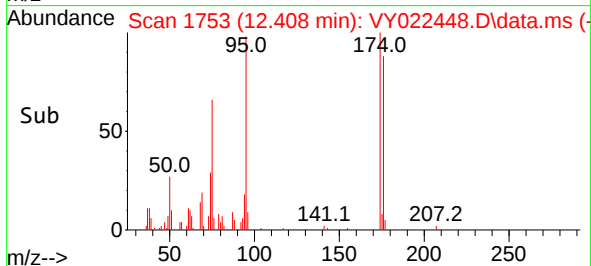
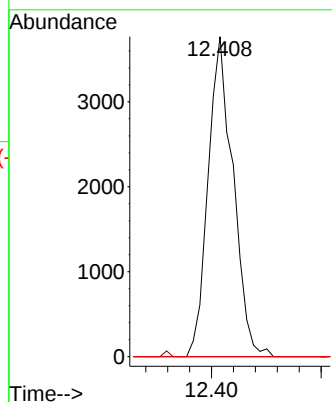
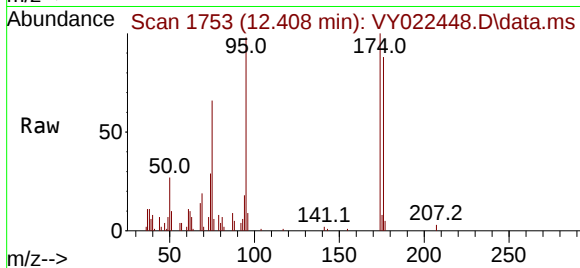




#81
 trans-1,4-Dichloro-2-butene
 Concen: 168.951 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY022448.D
 Acq: 28 May 2025 13:52

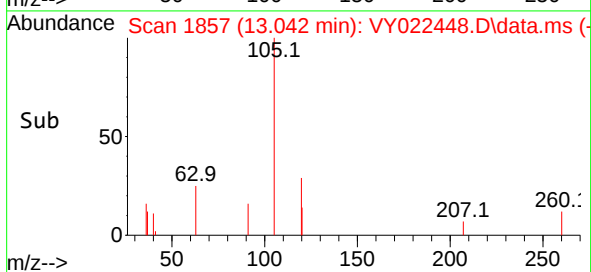
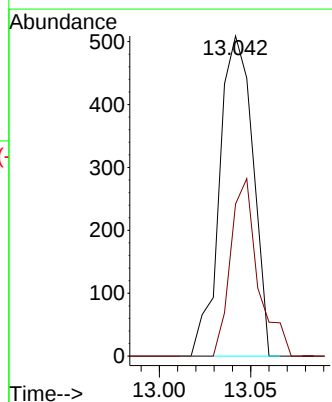
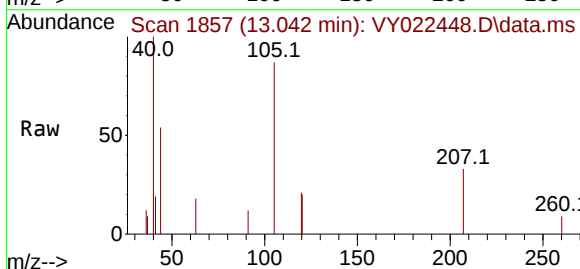
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-05222025

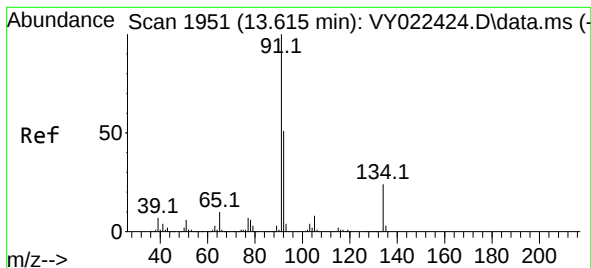
Tgt Ion: 75 Resp: 5953
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.1 112.7#
 89 0.0 37.4 56.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.312 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. 0.000 min
 Lab File: VY022448.D
 Acq: 28 May 2025 13:52

Tgt Ion: 105 Resp: 646
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.9 68.5





#89

n-Butylbenzene

Concen: 1.150 ug/l

RT: 13.621 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

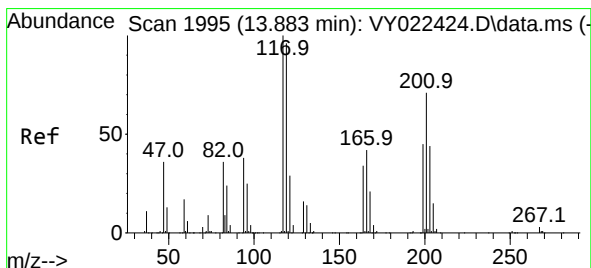
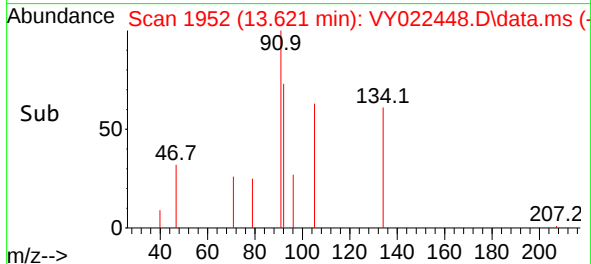
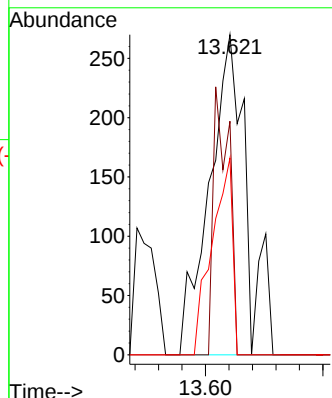
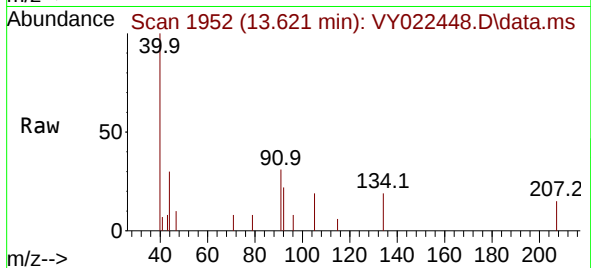
Instrument :

MSVOA_Y

ClientSampleId :

HD-02-05222025

Tgt Ion:	91	Resp:	590
Ion	Ratio	Lower	Upper
91	100		
92	35.9	25.9	77.6
134	34.2	12.4	37.0



#90

Hexachloroethane

Concen: 1.781 ug/l

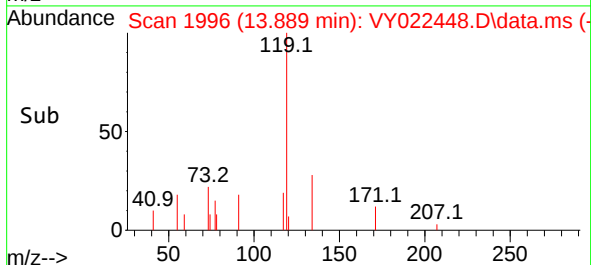
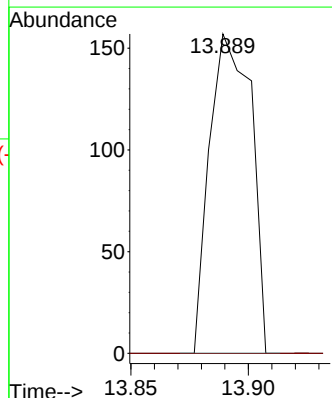
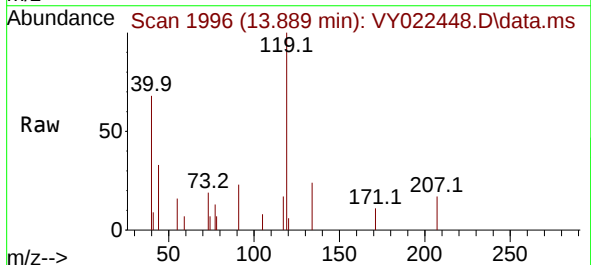
RT: 13.889 min Scan# 1996

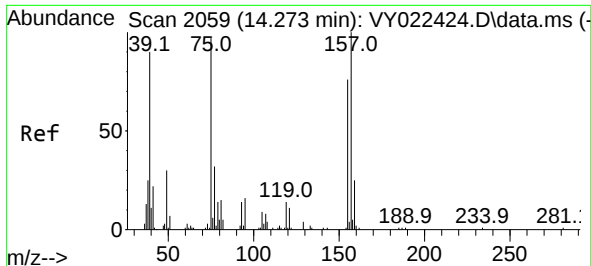
Delta R.T. 0.006 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Tgt Ion:	117	Resp:	194
Ion	Ratio	Lower	Upper
117	100		
201	0.0	35.0	105.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.068 ug/l

RT: 13.999 min Scan# 2059

Delta R.T. -0.274 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-05222025

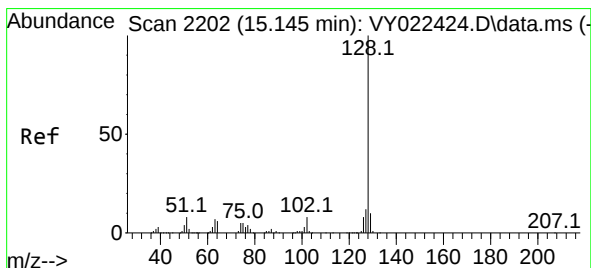
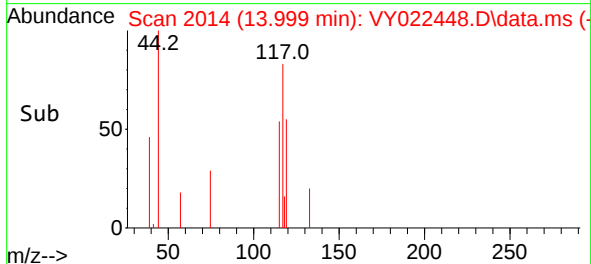
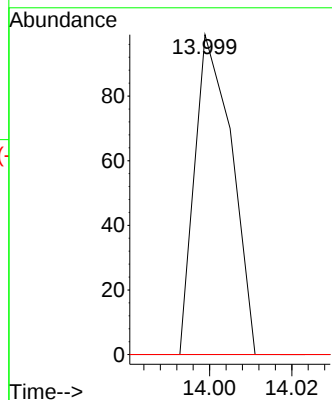
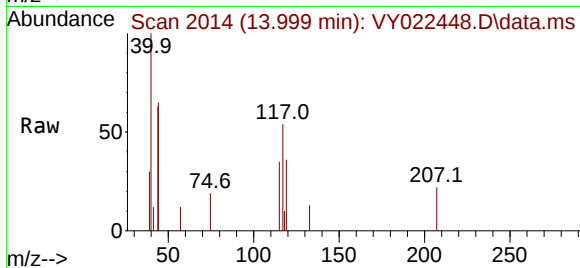
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 0.0 54.4 163.3#



#95

Naphthalene

Concen: 5.171 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. 0.006 min

Lab File: VY022448.D

Acq: 28 May 2025 13:52

Tgt Ion: 128 Resp: 1200

Ion Ratio Lower Upper

128 100

127 4.8 10.2 15.4#

129 3.0 8.5 12.7#

