

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032525\
 Data File : VY021638.D
 Acq On : 25 Mar 2025 16:09
 Operator : SY/MD
 Sample : Q1634-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-04-032425

Quant Time: Mar 26 01:37:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

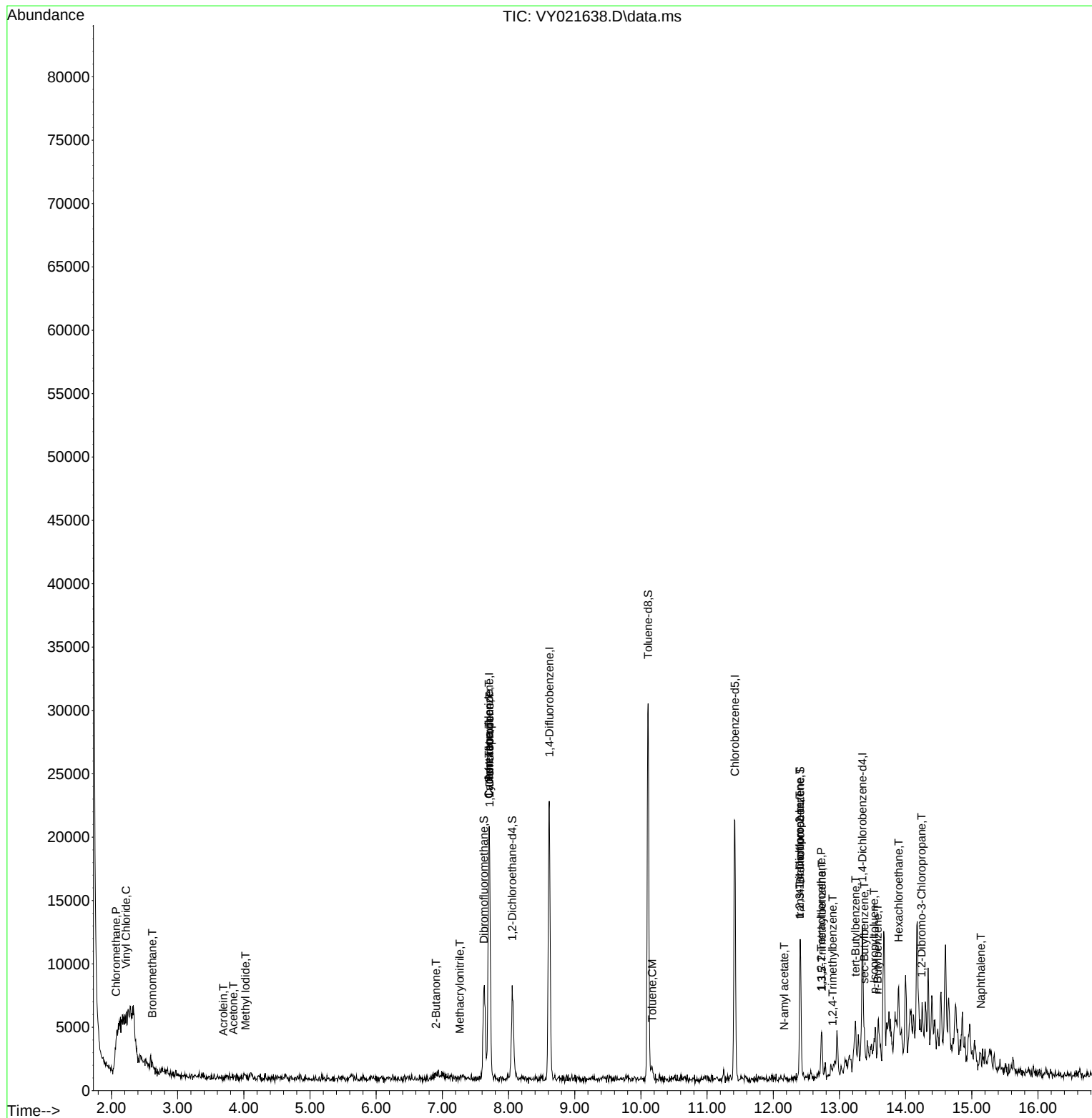
Internal Standards						
1) Pentafluorobenzene	7.707	168	15108	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	17156	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	11722	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	2461	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	5445	34.099	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	68.200%		
35) Dibromofluoromethane	7.628	113	5696	50.510	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.020%		
50) Toluene-d8	10.109	98	19737	46.225	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.440%		
62) 4-Bromofluorobenzene	12.408	95	3090	21.275	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	42.560%		
Target Compounds						Qvalue
3) Chloromethane	2.068	50	308	1.576	ug/l #	82
4) Vinyl Chloride	2.220	62	234	1.095	ug/l #	42
5) Bromomethane	2.617	94	222	1.438	ug/l #	28
10) Methyl Iodide	4.025	142	454	2.624	ug/l #	86
11) Tert butyl alcohol	4.860	59	50	Below Cal	#	72
13) Acrolein	3.690	56	20	2.462	ug/l #	10
16) Acetone	3.842	43	251	7.207	ug/l #	47
25) 2-Butanone	6.902	43	112	2.325	ug/l #	48
31) Cyclohexane	7.701	56	393	1.314	ug/l #	38
36) 1,1-Dichloropropene	7.713	75	1388	7.863	ug/l #	41
38) Carbon Tetrachloride	7.701	117	1676	8.256	ug/l #	19
41) Methacrylonitrile	7.262	41	50	1.177	ug/l #	40
52) Toluene	10.170	92	488	1.489	ug/l	92
74) N-amyl acetate	12.164	43	62	1.473	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.725	83	157	4.589	ug/l #	34
76) 1,2,3-Trichloropropane	12.402	75	1697	68.430	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	389	2.469	ug/l	66
81) trans-1,4-Dichloro-2-b...	12.402	75	1697	155.563	ug/l #	9
83) tert-Butylbenzene	13.243	119	583	4.148	ug/l	71
84) 1,2,4-Trimethylbenzene	12.895	105	443	2.832	ug/l #	49
85) sec-Butylbenzene	13.377	105	1021	4.883	ug/l #	57
86) p-Isopropyltoluene	13.523	119	409	2.374	ug/l	83
89) n-Butylbenzene	13.578	91	206	1.295	ug/l #	1
90) Hexachloroethane	13.895	117	215	5.850	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.243	75	44	8.586	ug/l #	1
95) Naphthalene	15.139	128	116	3.184	ug/l #	69

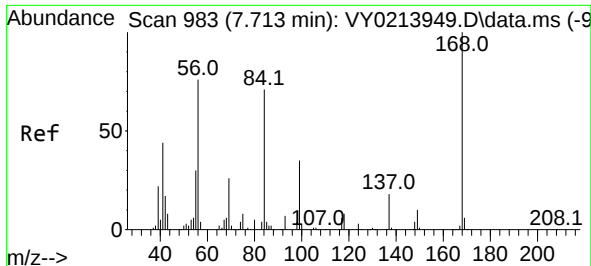
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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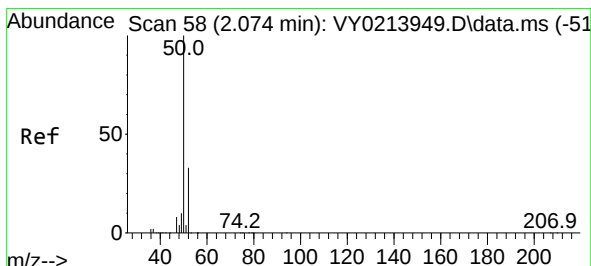
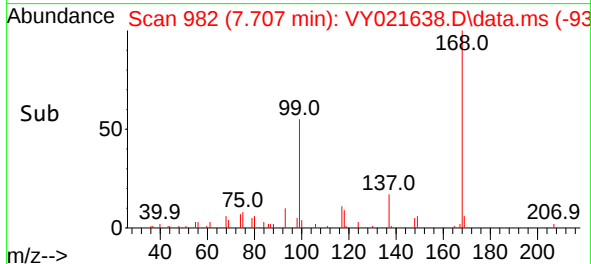
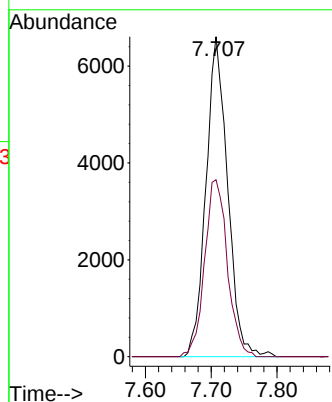
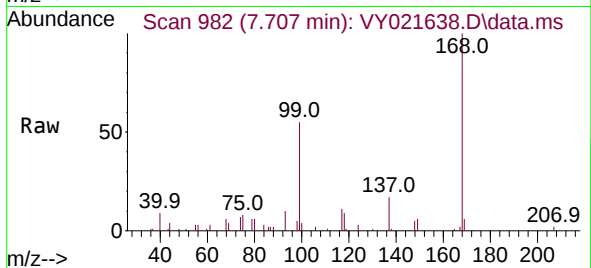




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

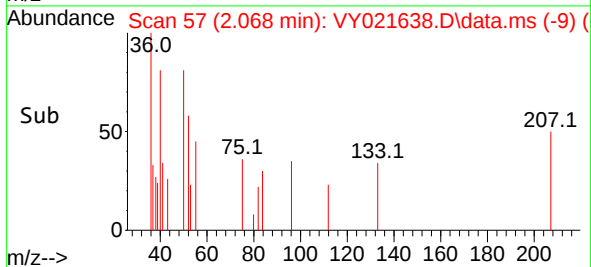
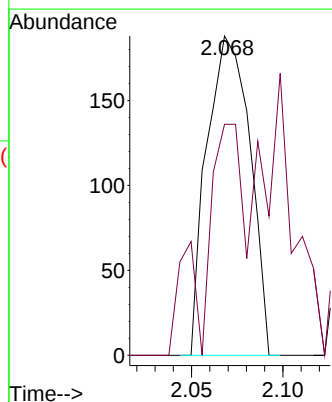
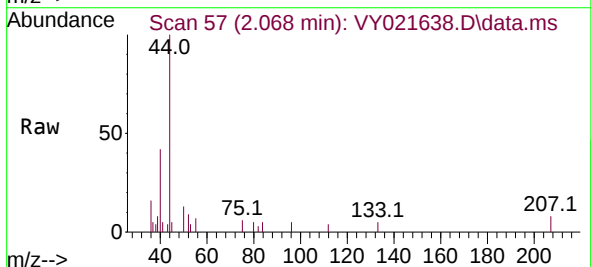
Instrument :
MSVOA_Y
ClientSampleId :
HR-04-032425

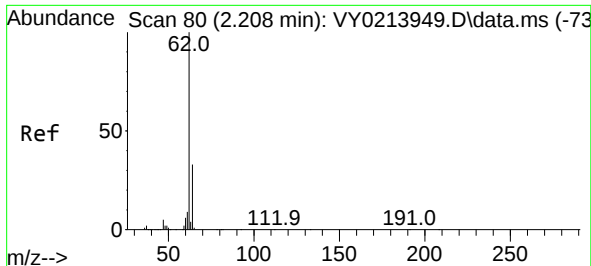
Tgt Ion:168 Resp: 15108
Ion Ratio Lower Upper
168 100
99 55.3 46.0 69.0



#3
Chloromethane
Concen: 1.576 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.006 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

Tgt Ion: 50 Resp: 308
Ion Ratio Lower Upper
50 100
52 43.1 26.2 39.2#

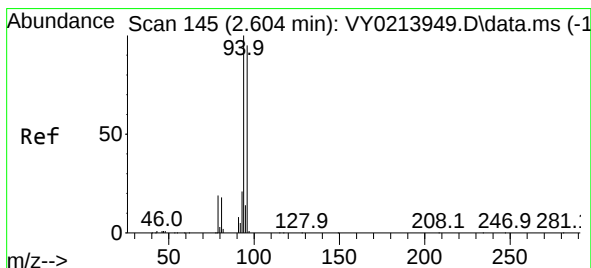
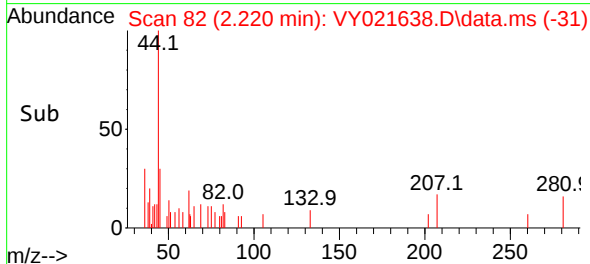
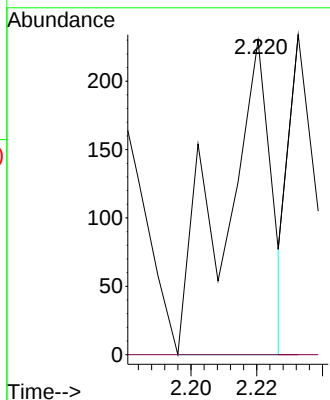
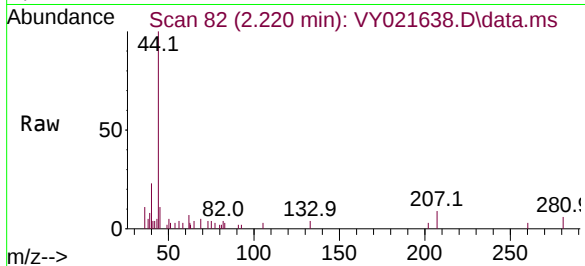




#4
 Vinyl Chloride
 Concen: 1.095 ug/l
 RT: 2.220 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

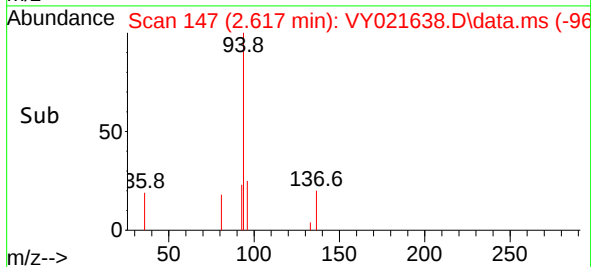
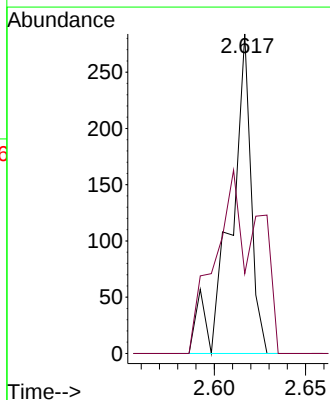
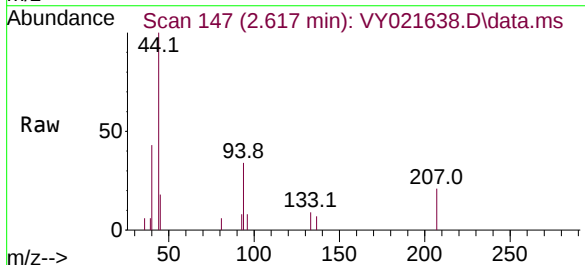
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-04-032425

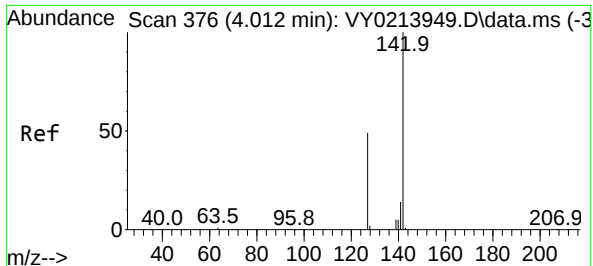
Tgt Ion: 62 Resp: 234
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.2 39.2#



#5
 Bromomethane
 Concen: 1.438 ug/l
 RT: 2.617 min Scan# 147
 Delta R.T. 0.013 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

Tgt Ion: 94 Resp: 222
 Ion Ratio Lower Upper
 94 100
 96 25.0 76.3 114.5#





#10

Methyl Iodide

Concen: 2.624 ug/l

RT: 4.025 min Scan# 31

Delta R.T. 0.013 min

Lab File: VY021638.D

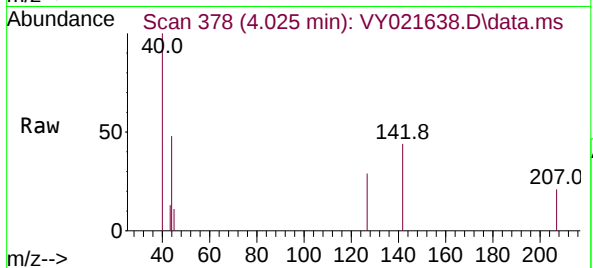
Acq: 25 Mar 2025 16:09

Instrument :

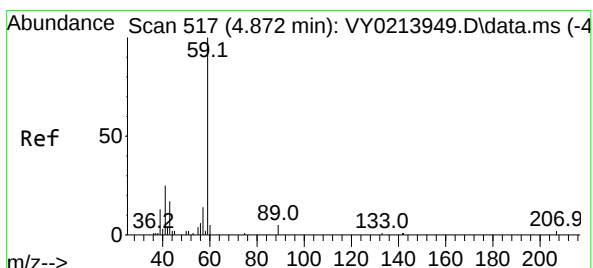
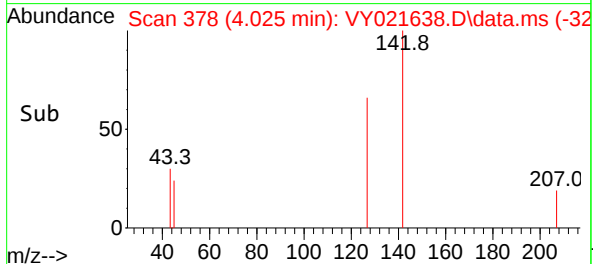
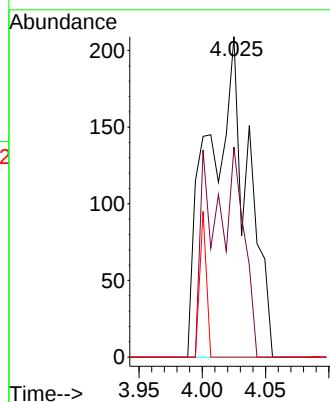
MSVOA_Y

ClientSampleId :

HR-04-032425



Tgt Ion:	142	Resp:	454
Ion	Ratio	Lower	Upper
142	100		
127	54.0	39.1	58.7
141	0.0	11.8	17.6#



#11

Tert butyl alcohol

Concen: Below Cal

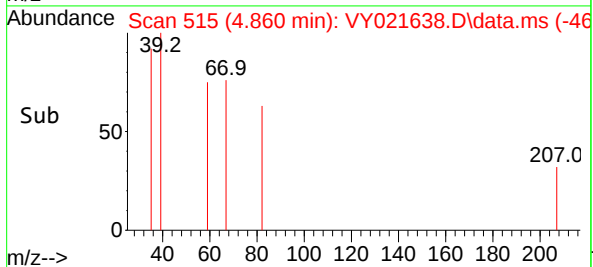
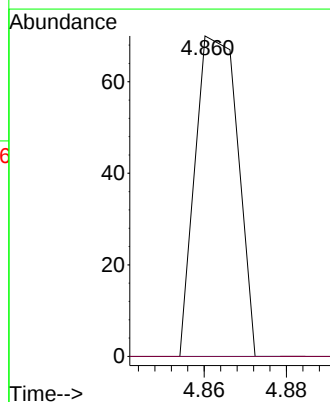
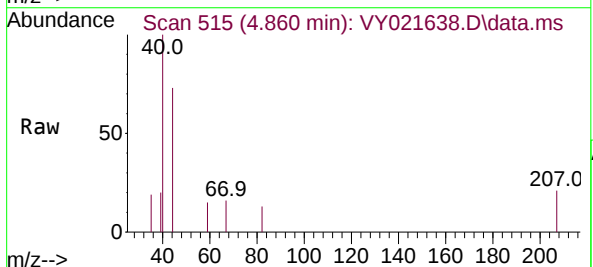
RT: 4.860 min Scan# 515

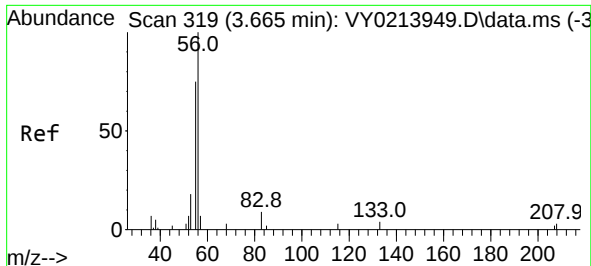
Delta R.T. -0.012 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Tgt Ion:	59	Resp:	50
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

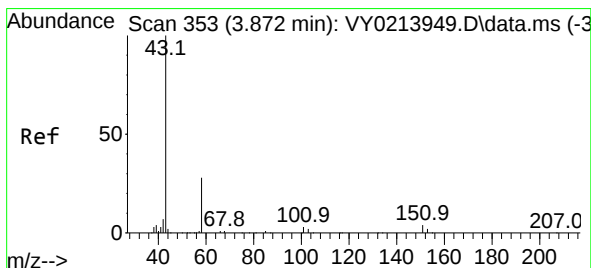
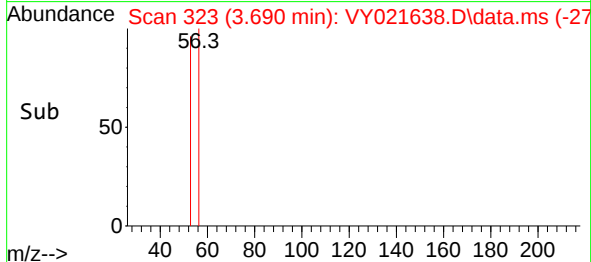
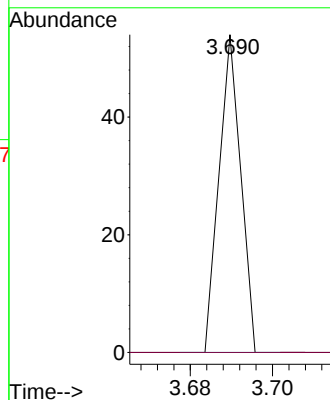
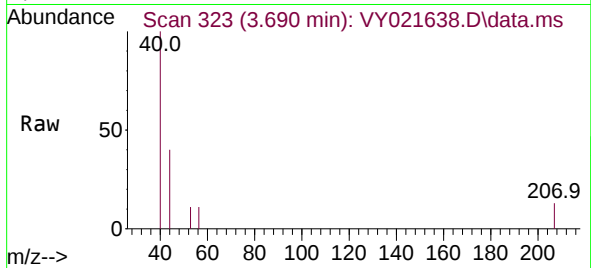




#13
Acrolein
Concen: 2.462 ug/l
RT: 3.690 min Scan# 319
Delta R.T. 0.025 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

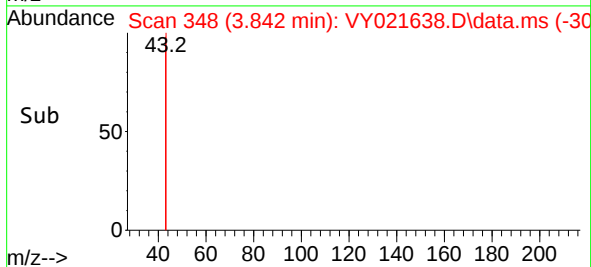
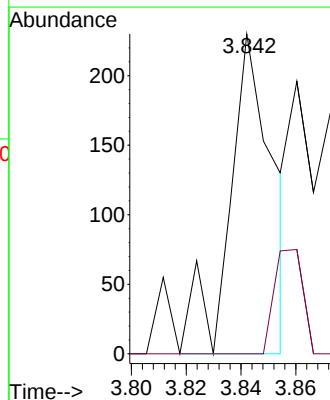
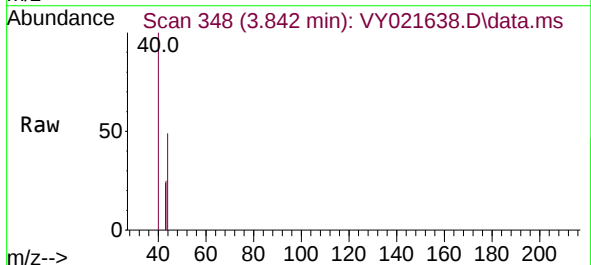
Instrument :
MSVOA_Y
ClientSampleId :
HR-04-032425

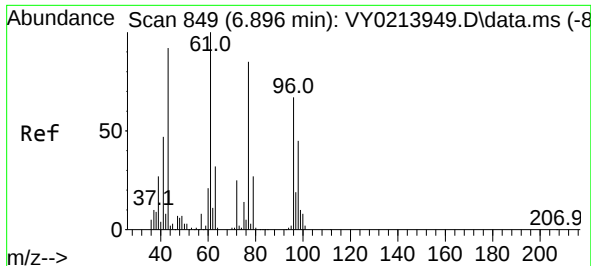
Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#



#16
Acetone
Concen: 7.207 ug/l
RT: 3.842 min Scan# 348
Delta R.T. -0.030 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

Tgt Ion: 43 Resp: 251
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#





#25

2-Butanone

Concen: 2.325 ug/l

RT: 6.902 min Scan# 81

Delta R.T. 0.006 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

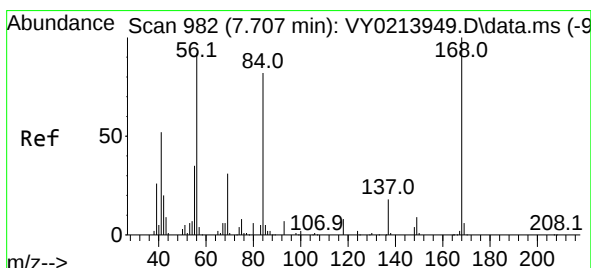
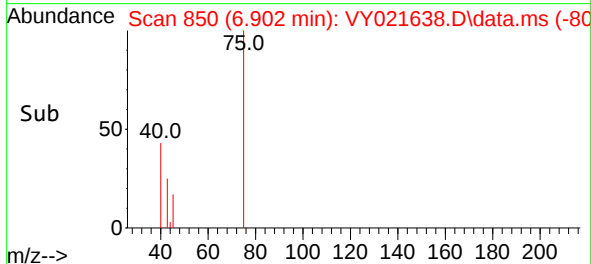
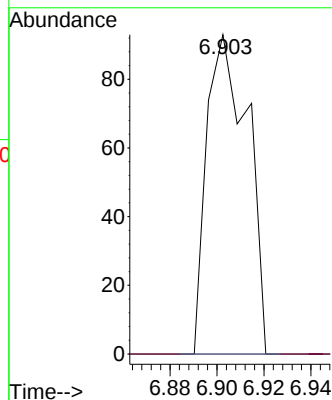
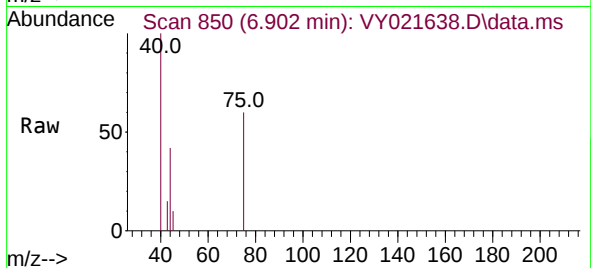
HR-04-032425

Tgt Ion: 43 Resp: 112

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#31

Cyclohexane

Concen: 1.314 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.006 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

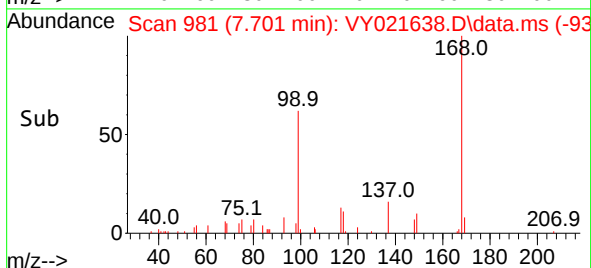
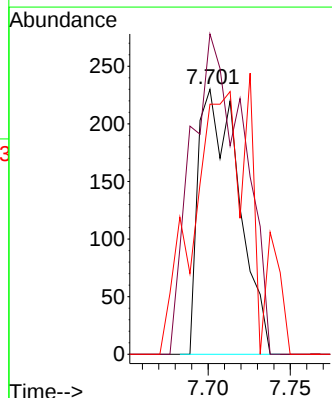
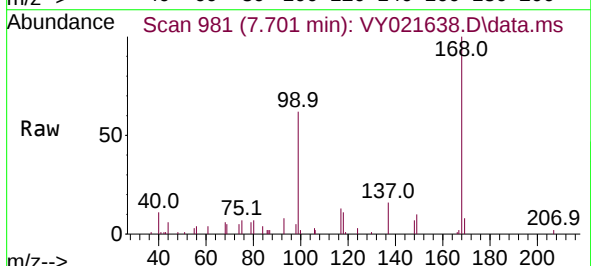
Tgt Ion: 56 Resp: 393

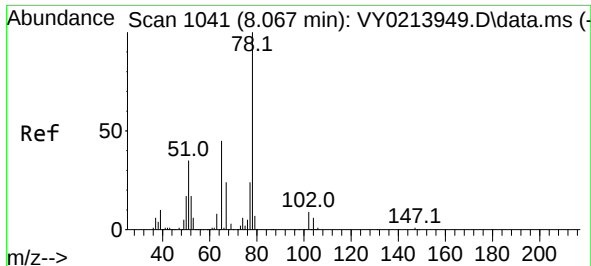
Ion Ratio Lower Upper

56 100

69 120.9 27.0 40.4#

84 63.5 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 34.099 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

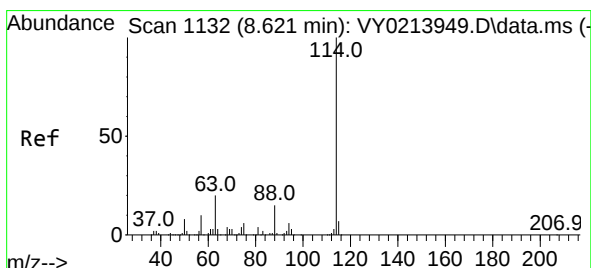
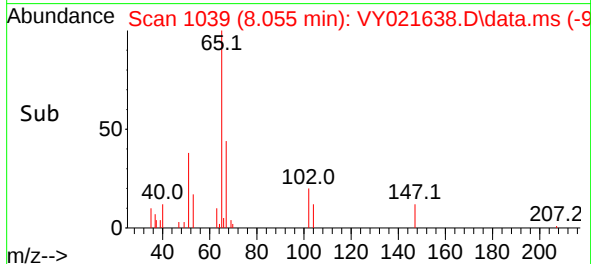
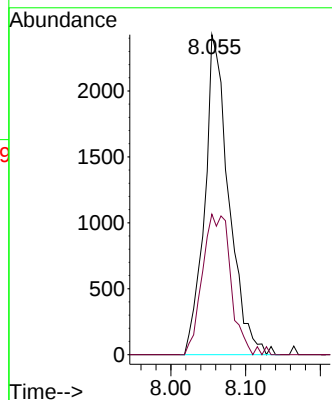
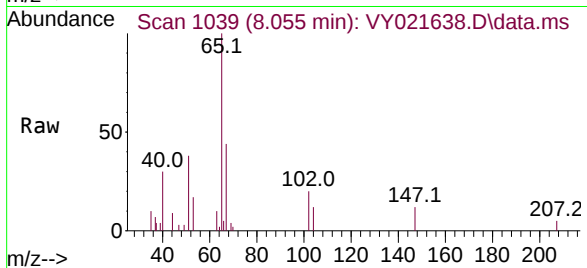
HR-04-032425

Tgt Ion: 65 Resp: 5445

Ion Ratio Lower Upper

65 100

67 51.0 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

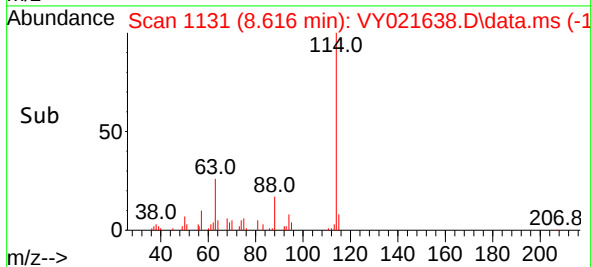
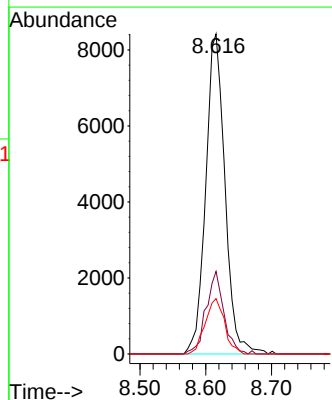
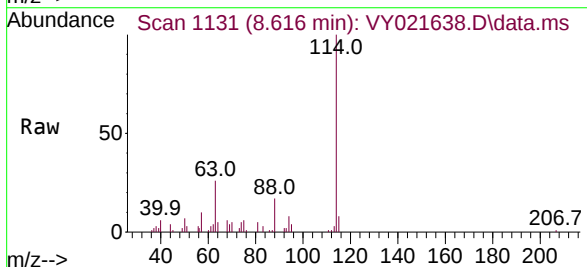
Tgt Ion: 114 Resp: 17156

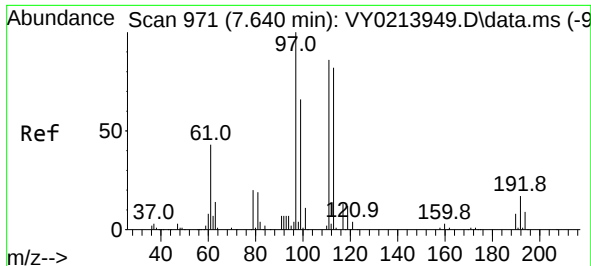
Ion Ratio Lower Upper

114 100

63 25.8 0.0 40.8

88 17.3 0.0 30.8

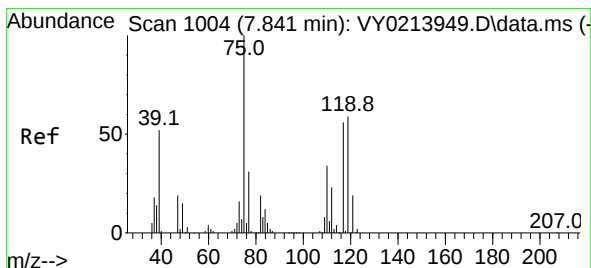
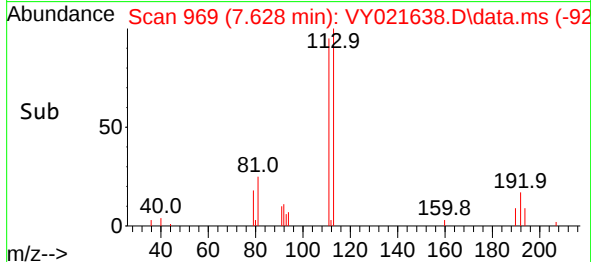
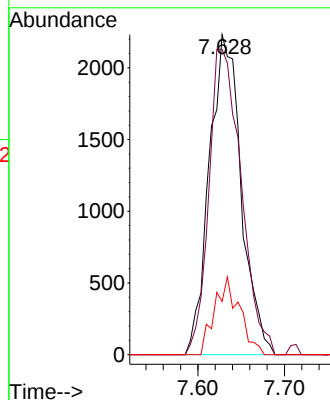
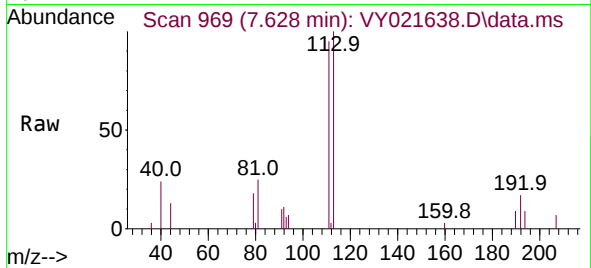




#35
 Dibromofluoromethane
 Concen: 50.510 ug/l
 RT: 7.628 min Scan# 910
 Delta R.T. -0.012 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

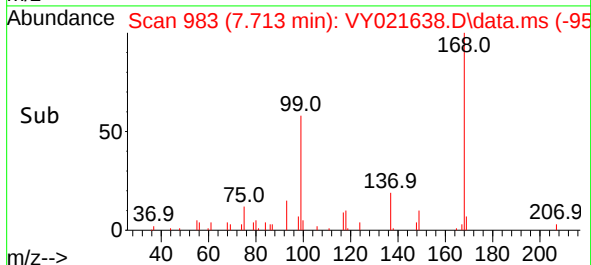
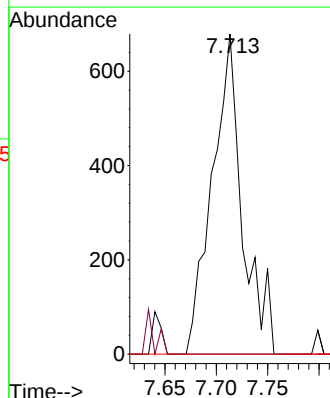
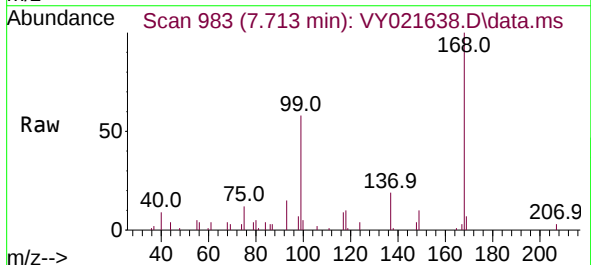
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-04-032425

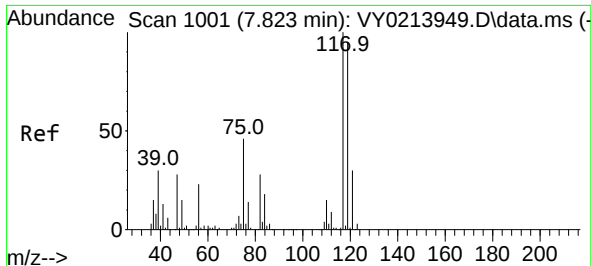
Tgt Ion:	113	Resp:	5696
Ion	Ratio	Lower	Upper
113	100		
111	97.0	82.0	123.0
192	19.0	15.9	23.9



#36
 1,1-Dichloropropene
 Concen: 7.863 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.128 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

Tgt Ion:	75	Resp:	1388
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.3	51.7#
77	0.0	25.4	38.2#

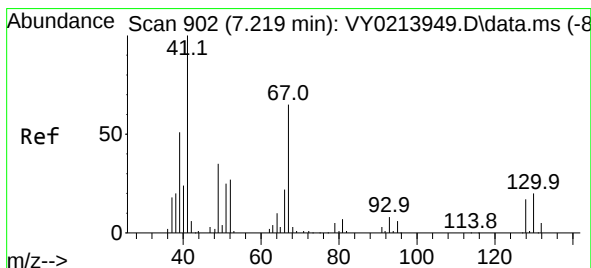
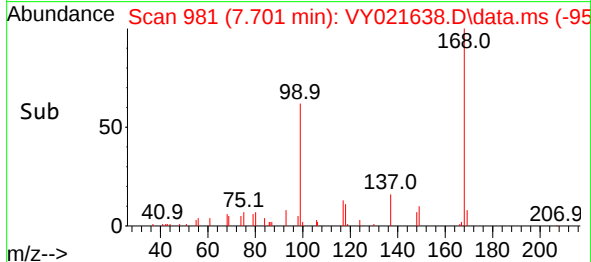
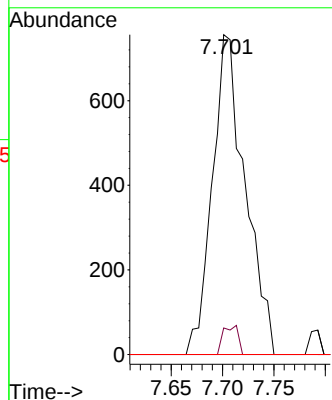
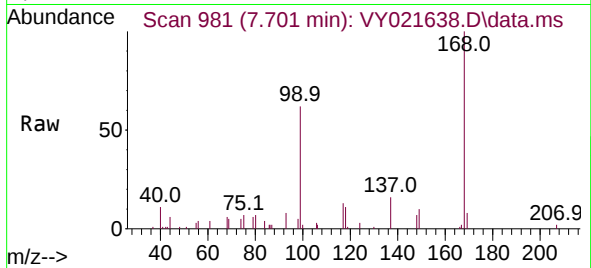




#38
Carbon Tetrachloride
Concen: 8.256 ug/l
RT: 7.701 min Scan# 909
Delta R.T. -0.122 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

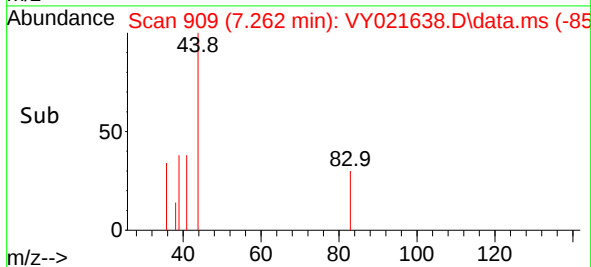
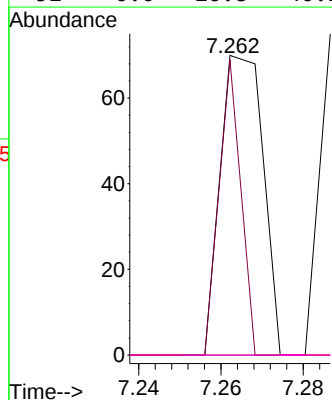
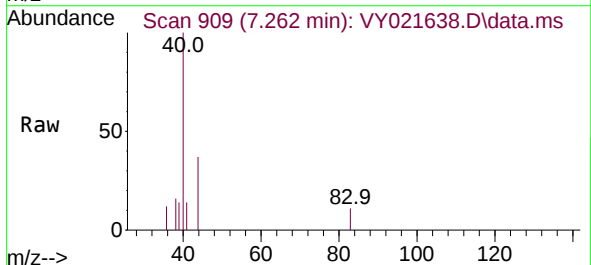
Instrument :
MSVOA_Y
ClientSampleId :
HR-04-032425

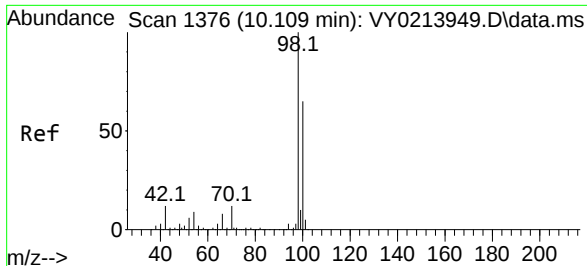
Tgt Ion:117 Resp: 1676
Ion Ratio Lower Upper
117 100
119 8.3 75.8 113.8#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 1.177 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.043 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

Tgt Ion: 41 Resp: 50
Ion Ratio Lower Upper
41 100
39 50.0 35.0 52.6
67 0.0 61.2 91.8#
52 0.0 26.8 40.2#





#50

Toluene-d8

Concen: 46.225 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

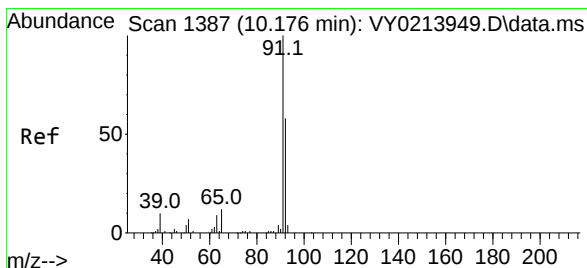
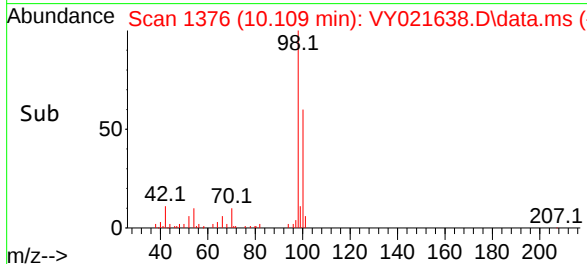
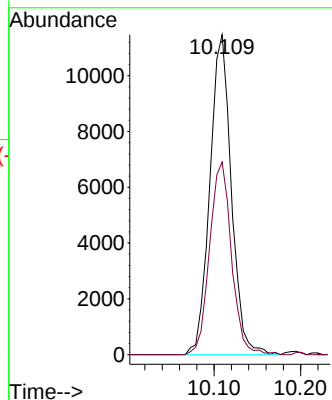
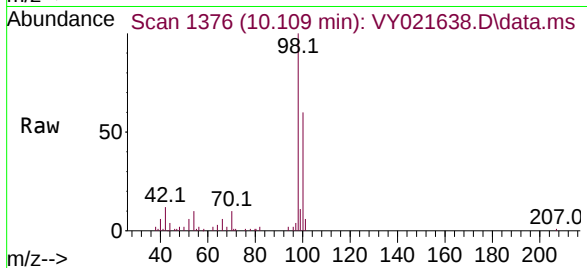
HR-04-032425

Tgt Ion: 98 Resp: 19737

Ion Ratio Lower Upper

98 100

100 61.3 52.1 78.1



#52

Toluene

Concen: 1.489 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. -0.006 min

Lab File: VY021638.D

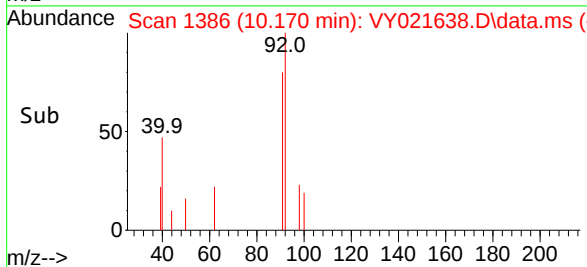
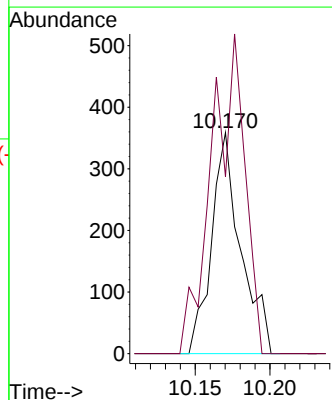
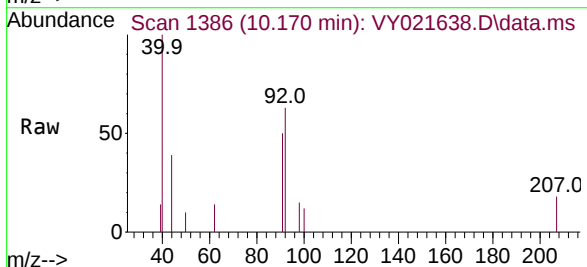
Acq: 25 Mar 2025 16:09

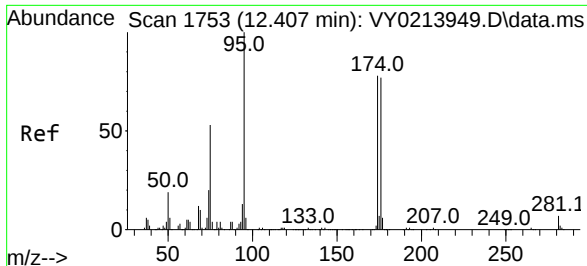
Tgt Ion: 92 Resp: 488

Ion Ratio Lower Upper

92 100

91 162.3 138.2 207.2





#62

4-Bromofluorobenzene

Concen: 21.275 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

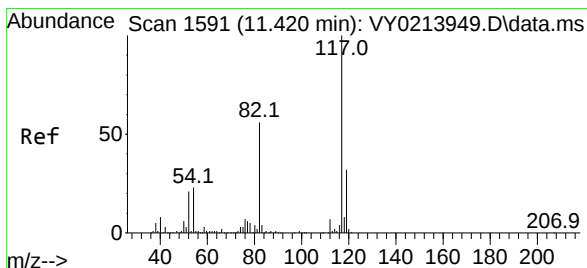
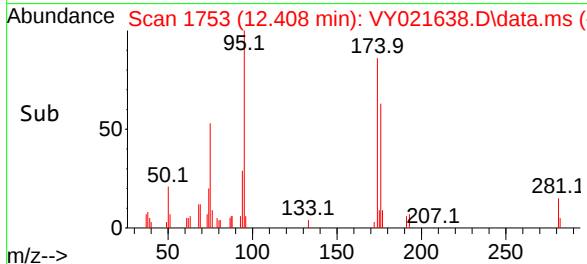
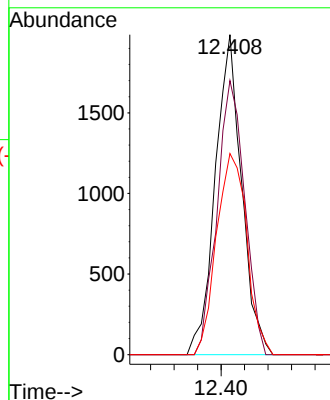
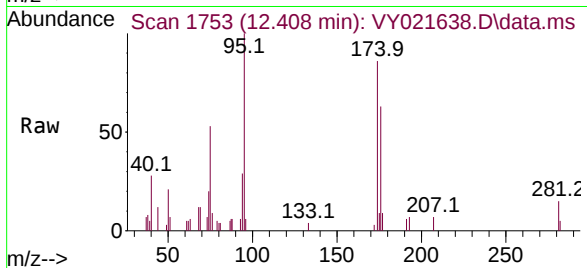
Instrument :

MSVOA_Y

ClientSampleId :

HR-04-032425

Tgt Ion:	95	Resp:	3090
Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	165.0
176	72.3	0.0	160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

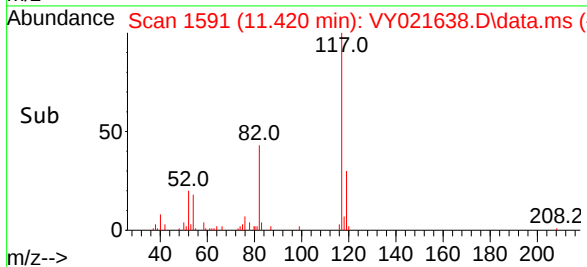
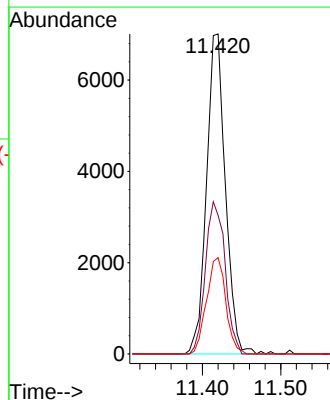
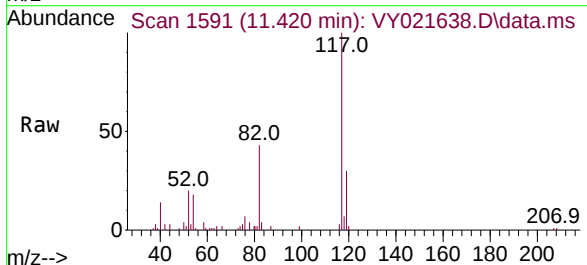
RT: 11.420 min Scan# 1591

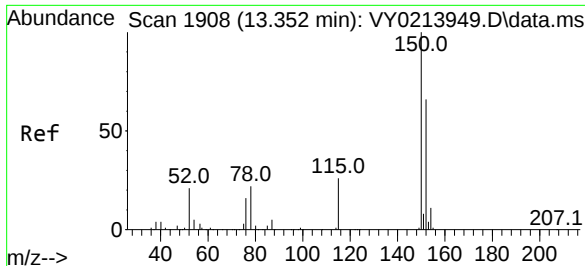
Delta R.T. 0.000 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Tgt Ion:	117	Resp:	11722
Ion	Ratio	Lower	Upper
117	100		
82	43.3	44.6	67.0#
119	30.1	25.4	38.0

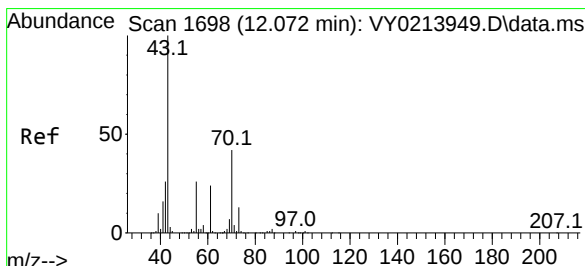
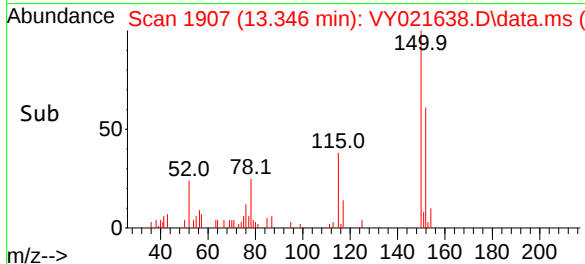
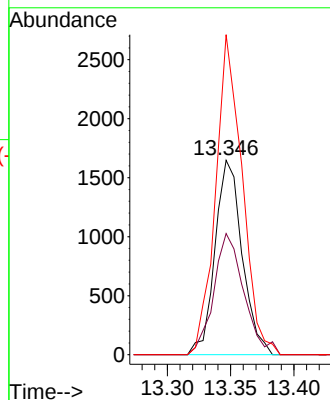
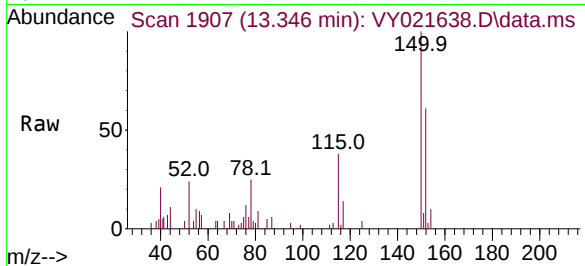




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

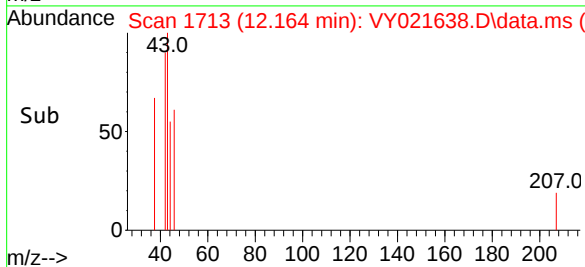
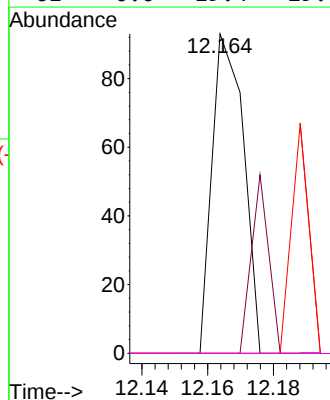
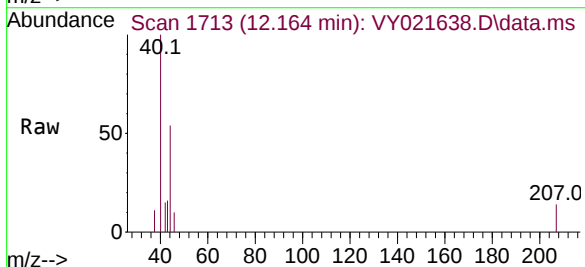
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-04-032425

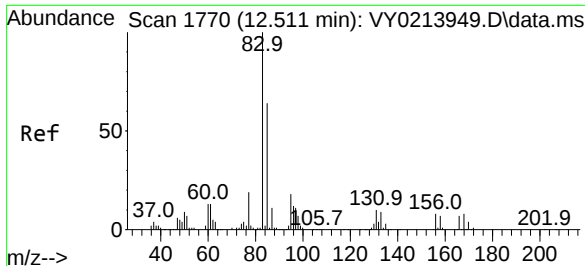
Tgt Ion:152 Resp: 2461
 Ion Ratio Lower Upper
 152 100
 115 69.0 29.0 87.0
 150 160.6 0.0 347.2



#74
 N-ethyl acetate
 Concen: 1.473 ug/l
 RT: 12.164 min Scan# 1713
 Delta R.T. 0.092 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

Tgt Ion: 43 Resp: 62
 Ion Ratio Lower Upper
 43 100
 70 30.6 34.6 51.8#
 55 0.0 21.1 31.7#
 61 0.0 19.4 29.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 4.589 ug/l

RT: 12.725 min Scan# 11

Delta R.T. 0.214 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

HR-04-032425

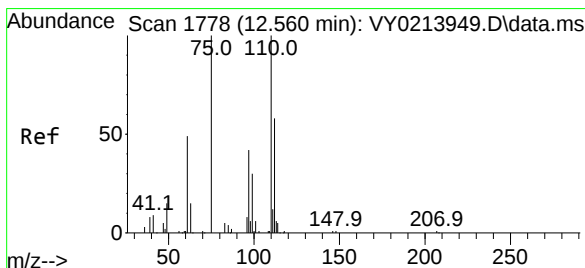
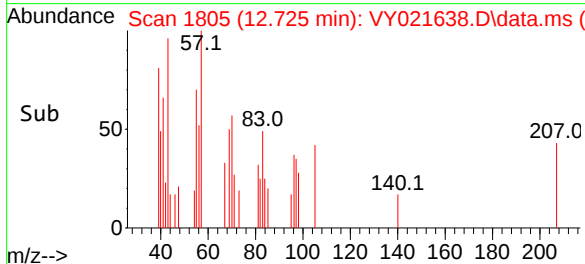
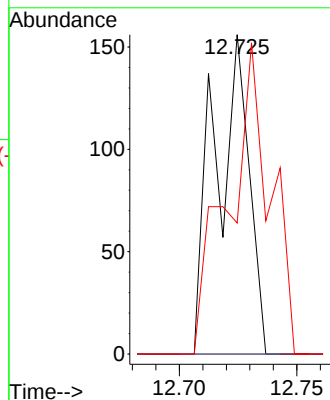
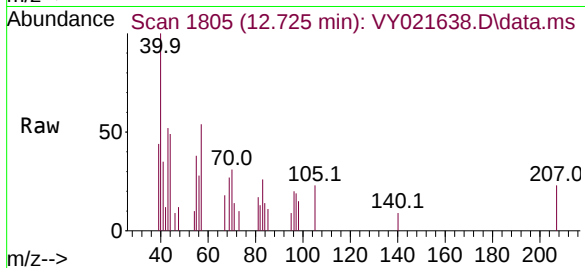
Tgt Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 120.4 31.9 95.5#



#76

1,2,3-Trichloropropane

Concen: 68.430 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.158 min

Lab File: VY021638.D

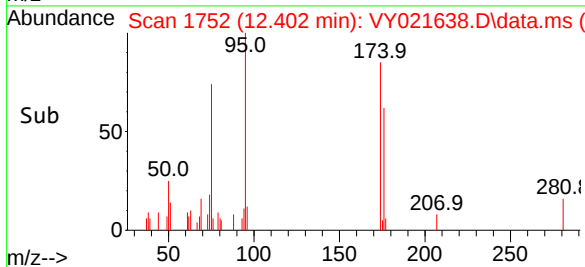
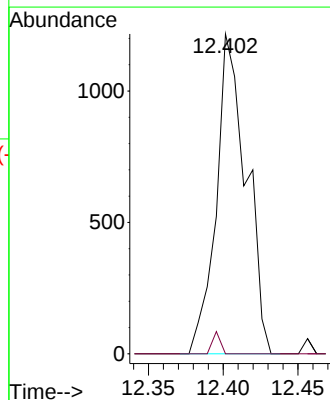
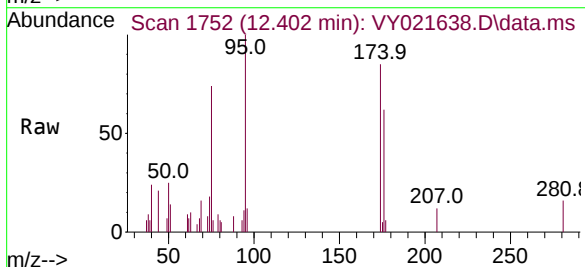
Acq: 25 Mar 2025 16:09

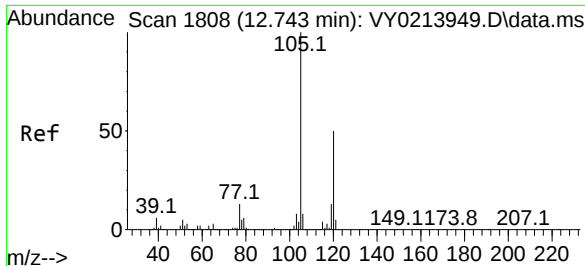
Tgt Ion: 75 Resp: 1697

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#

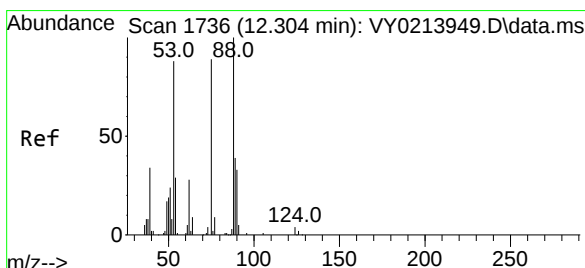
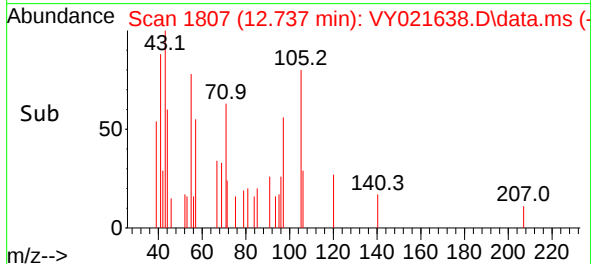
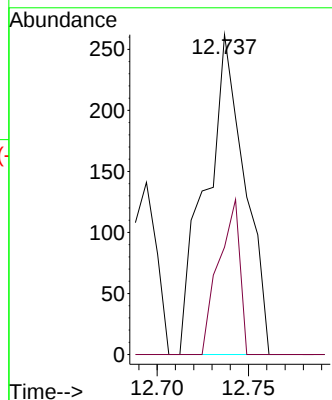
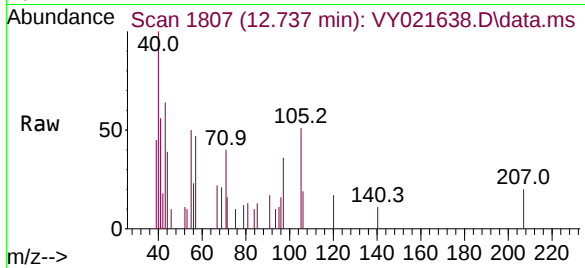




#80
 1,3,5-Trimethylbenzene
 Concen: 2.469 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

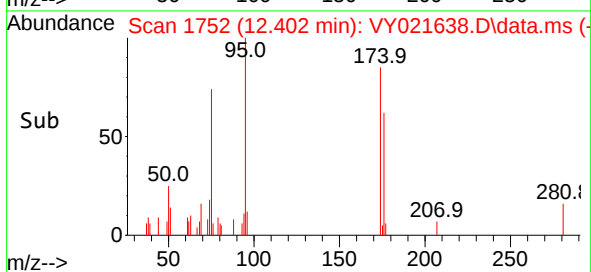
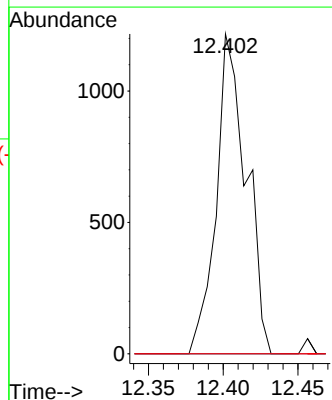
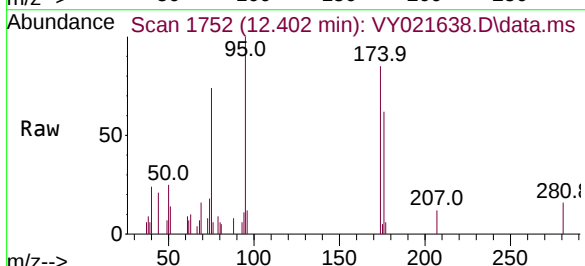
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-04-032425

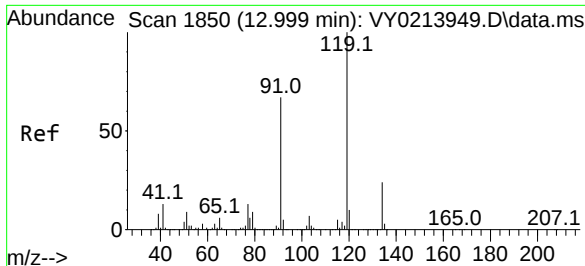
Tgt Ion:105 Resp: 389
 Ion Ratio Lower Upper
 105 100
 120 26.2 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 155.563 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.098 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

Tgt Ion: 75 Resp: 1697
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.9 55.3#

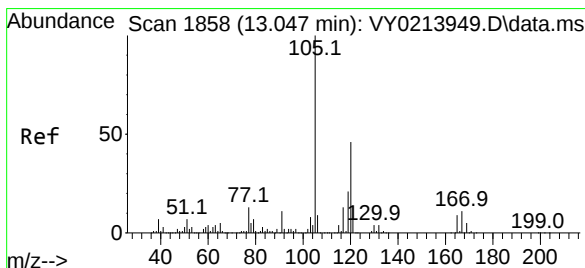
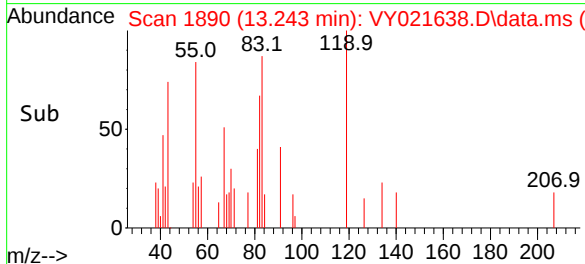
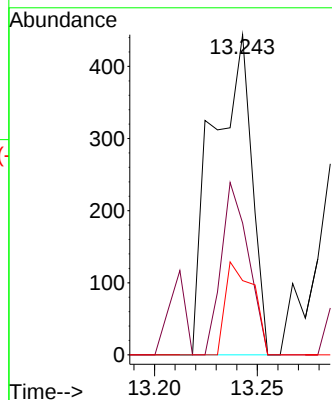
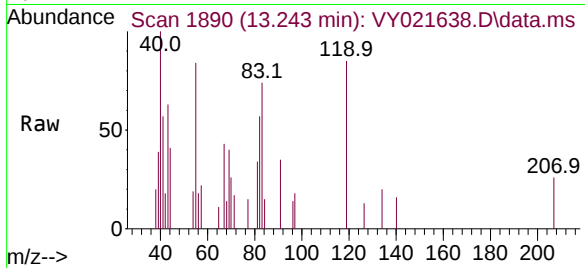




#83
 tert-Butylbenzene
 Concen: 4.148 ug/l
 RT: 13.243 min Scan# 1890
 Delta R.T. 0.244 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

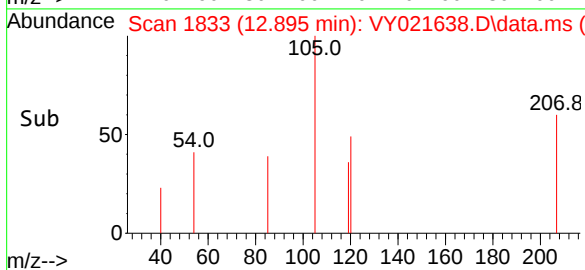
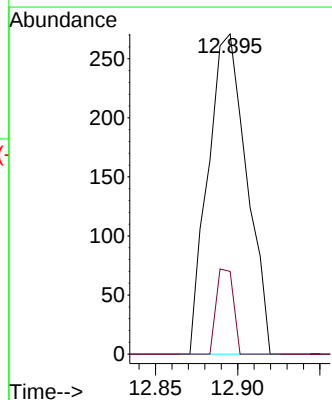
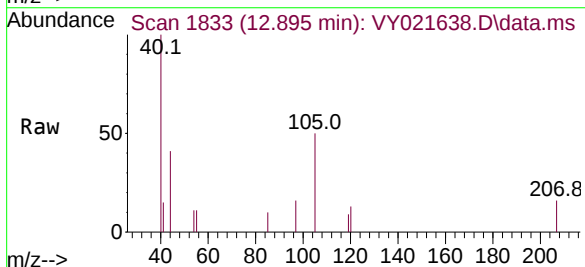
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-04-032425

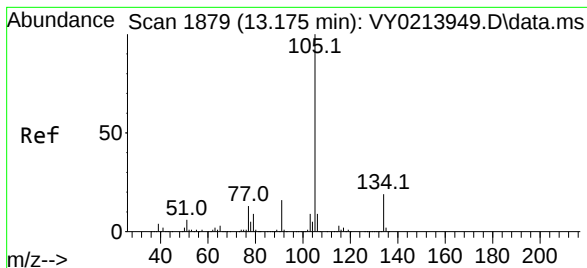
Tgt Ion:	119	Resp:	583
Ion	Ratio	Lower	Upper
119	100		
91	37.6	33.2	99.6
134	20.6	13.5	40.5



#84
 1,2,4-Trimethylbenzene
 Concen: 2.832 ug/l
 RT: 12.895 min Scan# 1833
 Delta R.T. -0.152 min
 Lab File: VY021638.D
 Acq: 25 Mar 2025 16:09

Tgt Ion:	105	Resp:	443
Ion	Ratio	Lower	Upper
105	100		
120	11.7	22.7	68.1#





#85

sec-Butylbenzene

Concen: 4.883 ug/l

RT: 13.377 min Scan# 1912

Delta R.T. 0.201 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

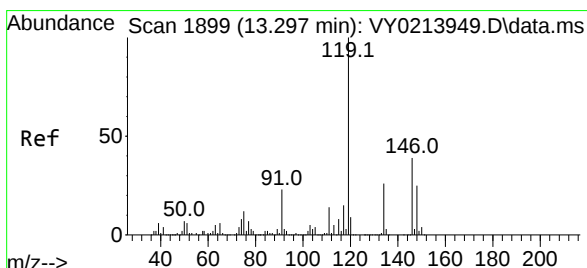
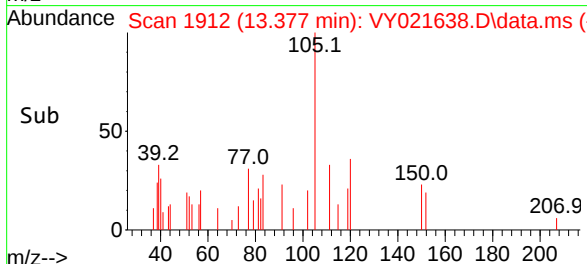
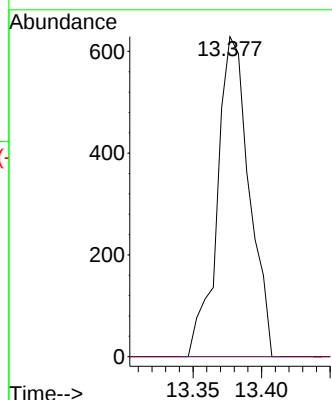
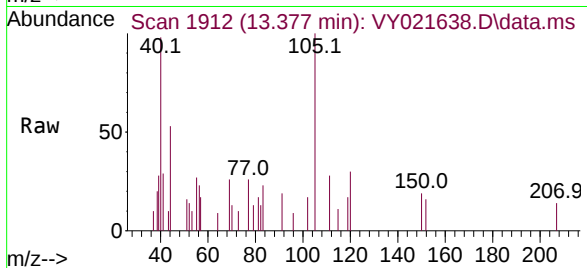
HR-04-032425

Tgt Ion:105 Resp: 1021

Ion Ratio Lower Upper

105 100

134 0.0 9.9 29.7#



#86

p-Isopropyltoluene

Concen: 2.374 ug/l

RT: 13.523 min Scan# 1936

Delta R.T. 0.226 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

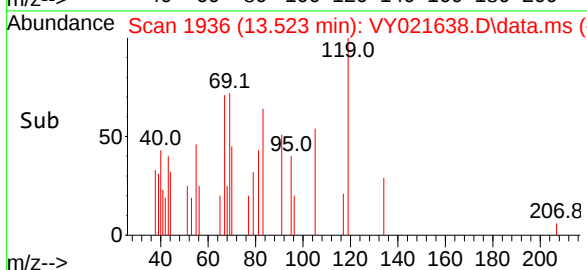
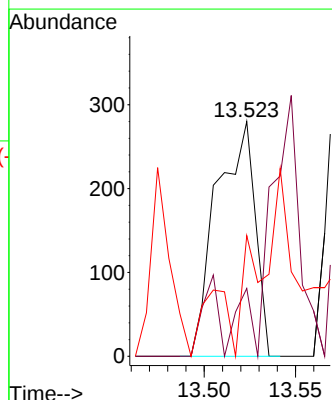
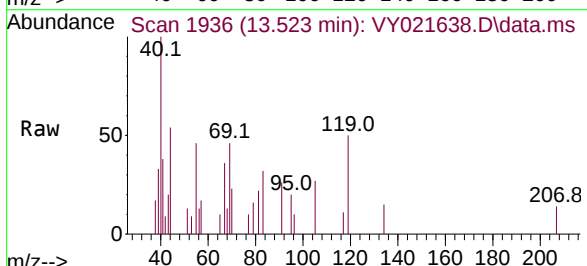
Tgt Ion:119 Resp: 409

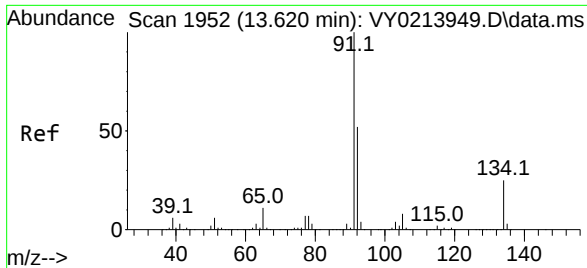
Ion Ratio Lower Upper

119 100

134 13.9 13.1 39.1

91 19.3 12.2 36.6

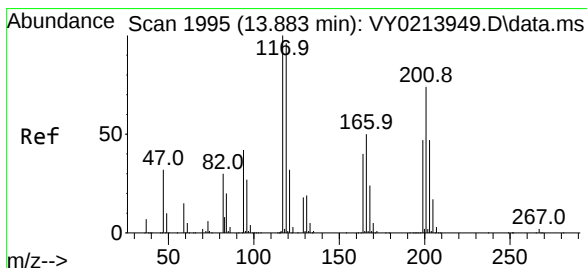
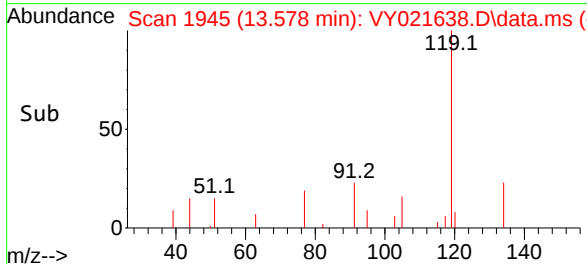
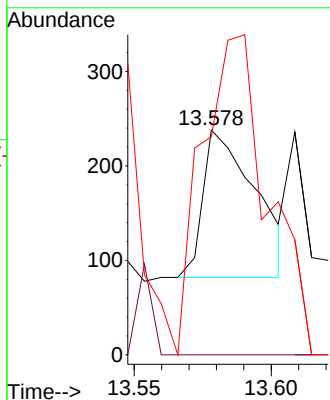
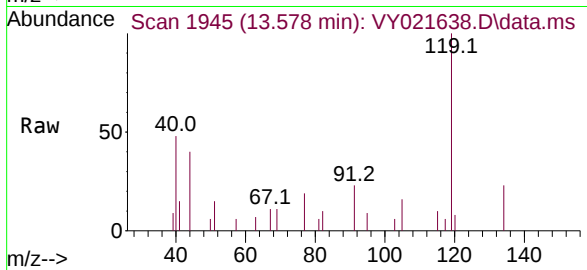




#89
n-Butylbenzene
Concen: 1.295 ug/l
RT: 13.578 min Scan# 1945
Delta R.T. -0.042 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

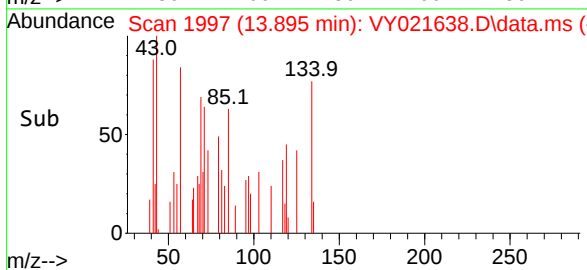
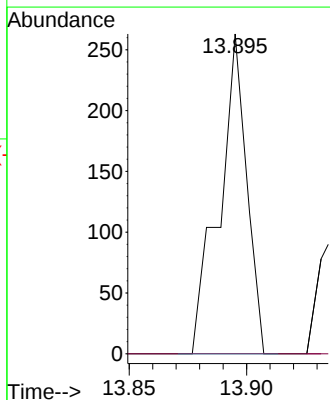
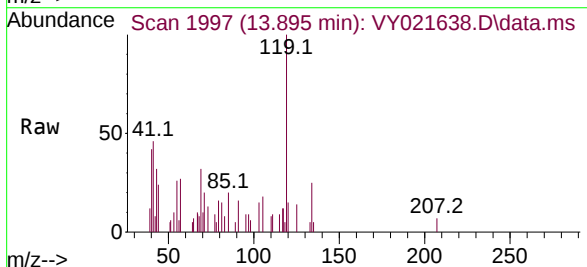
Instrument :
MSVOA_Y
ClientSampleId :
HR-04-032425

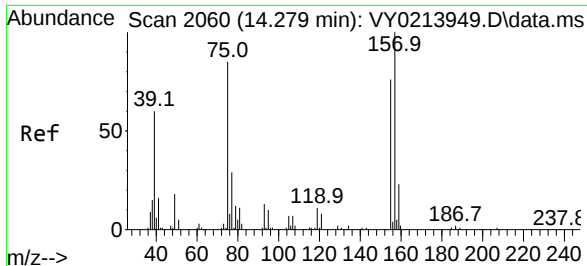
Tgt Ion: 91 Resp: 206
Ion Ratio Lower Upper
91 100
92 0.0 26.1 78.3#
134 275.2 12.6 37.8#



#90
Hexachloroethane
Concen: 5.850 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.013 min
Lab File: VY021638.D
Acq: 25 Mar 2025 16:09

Tgt Ion: 117 Resp: 215
Ion Ratio Lower Upper
117 100
201 0.0 37.4 112.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 8.586 ug/l

RT: 14.243 min Scan# 2060

Delta R.T. -0.036 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

HR-04-032425

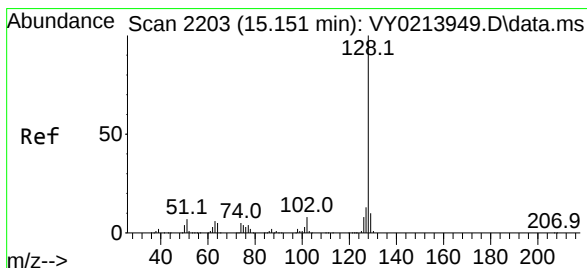
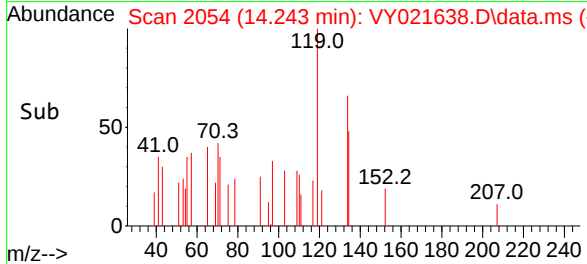
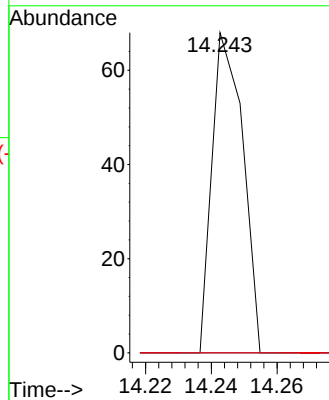
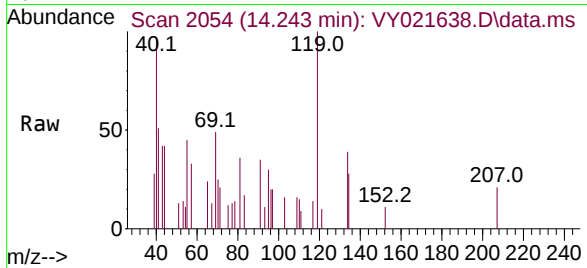
Tgt Ion: 75 Resp: 44

Ion Ratio Lower Upper

75 100

155 0.0 43.5 130.5#

157 0.0 54.4 163.2#



#95

Naphthalene

Concen: 3.184 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.012 min

Lab File: VY021638.D

Acq: 25 Mar 2025 16:09

Tgt Ion: 128 Resp: 116

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

