

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021363.D
 Acq On : 27 Feb 2025 17:09
 Operator : SY/MD
 Sample : Q1411-03
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 28 00:43:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

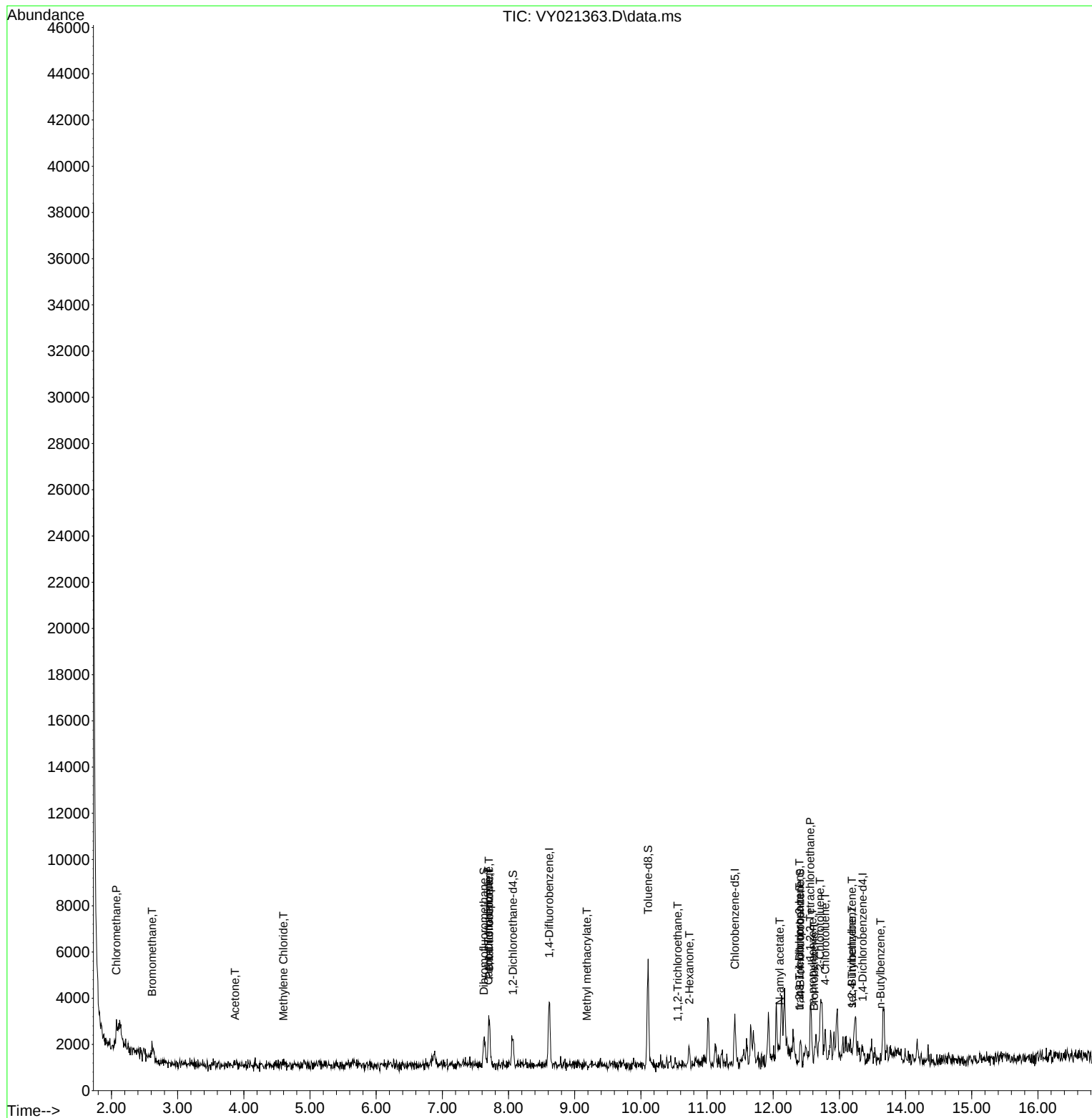
Internal Standards						
1) Pentafluorobenzene	7.707	168	2055	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	2893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1489	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	326	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	1193	51.175	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.360%	
35) Dibromofluoromethane	7.628	113	950	50.088	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.180%	
50) Toluene-d8	10.109	98	2921	39.849	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 79.700%	
62) 4-Bromofluorobenzene	12.408	95	256	10.377	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 20.760%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	150	5.961	ug/l #	58
5) Bromomethane	2.611	94	142	8.652	ug/l #	32
16) Acetone	3.866	43	23	5.143	ug/l #	45
20) Methylene Chloride	4.598	84	50	2.068	ug/l #	5
36) 1,1-Dichloropropene	7.701	75	42	1.474	ug/l #	42
38) Carbon Tetrachloride	7.695	117	183	5.714	ug/l #	12
48) Methyl methacrylate	9.183	41	19	1.481	ug/l #	15
55) 1,1,2-Trichloroethane	10.554	97	42	2.910	ug/l #	15
59) 2-Hexanone	10.731	43	401	43.484	ug/l #	26
74) N-amyl acetate	12.097	43	34	5.458	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.560	83	116	26.818	ug/l #	26
76) 1,2,3-Trichloropropane	12.395	75	176	53.937	ug/l #	100
77) Bromobenzene	12.615	156	23	4.035	ug/l #	1
78) n-propylbenzene	12.590	91	86	2.892	ug/l #	53
79) 2-Chlorotoluene	12.706	91	27	1.582	ug/l #	41
81) trans-1,4-Dichloro-2-b...	12.395	75	176	119.882	ug/l #	10
82) 4-Chlorotoluene	12.786	91	22	1.243	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.188	105	129	6.453	ug/l #	31
85) sec-Butylbenzene	13.188	105	129	4.864	ug/l #	56
89) n-Butylbenzene	13.621	91	58	2.783	ug/l #	33

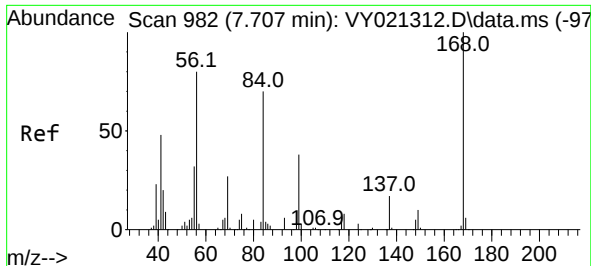
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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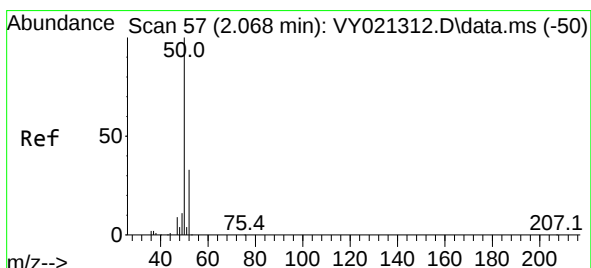
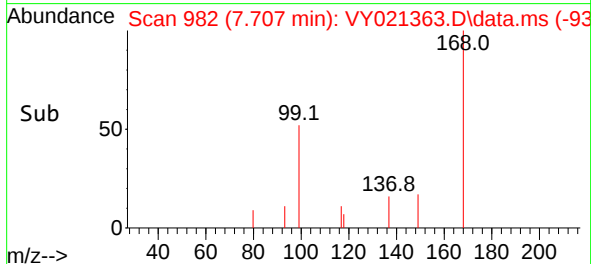
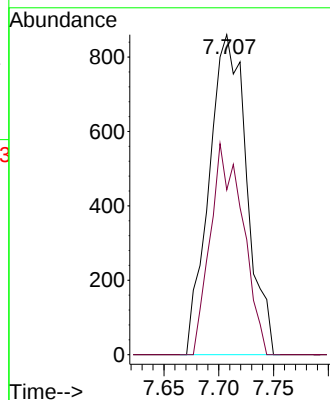
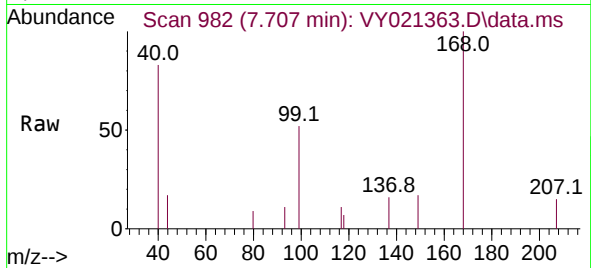




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

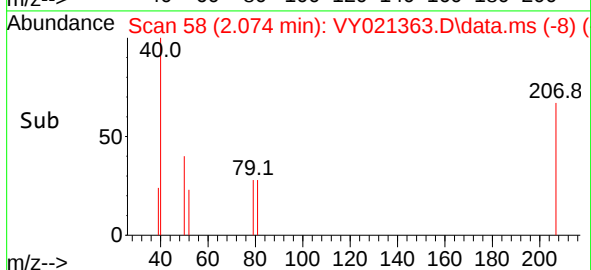
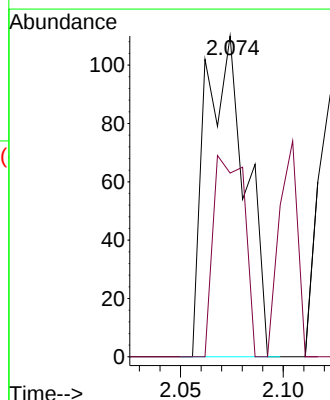
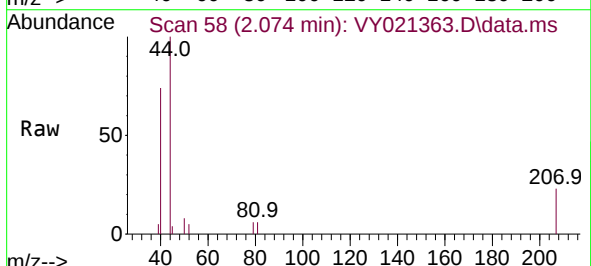
Instrument :
MSVOA_Y
ClientSampleId :

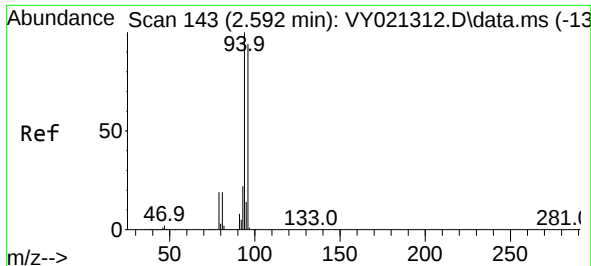
Tgt Ion:168 Resp: 2055
Ion Ratio Lower Upper
168 100
99 51.5 47.1 70.7



#3
Chloromethane
Concen: 5.961 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 50 Resp: 150
Ion Ratio Lower Upper
50 100
52 57.3 26.6 40.0#

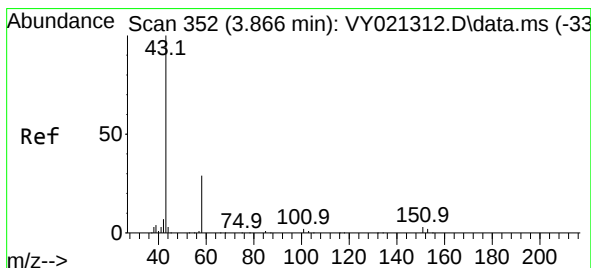
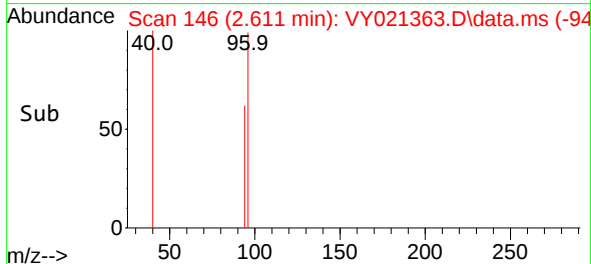
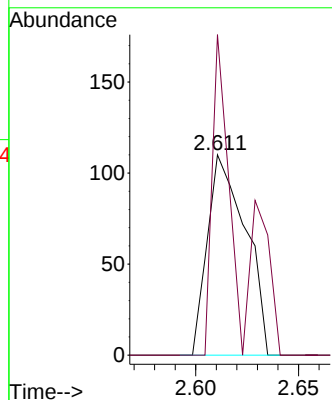
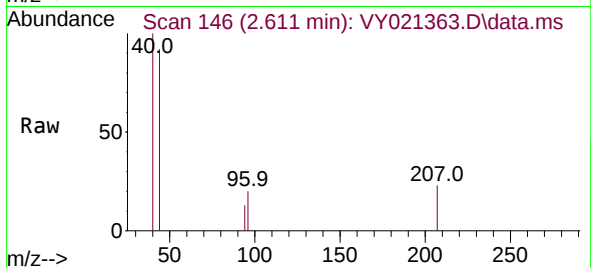




#5
Bromomethane
Concen: 8.652 ug/l
RT: 2.611 min Scan# 143
Delta R.T. 0.018 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

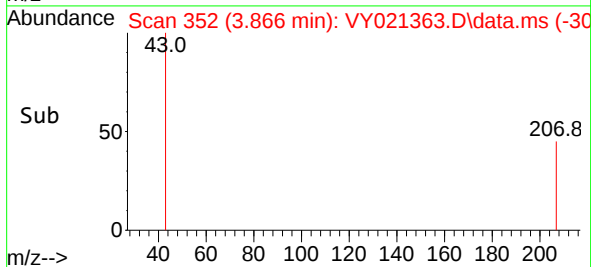
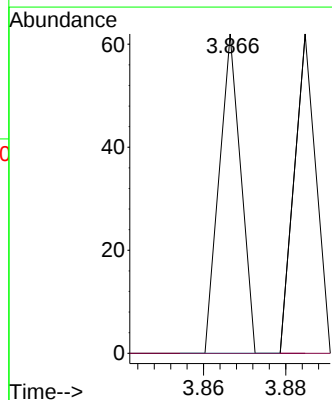
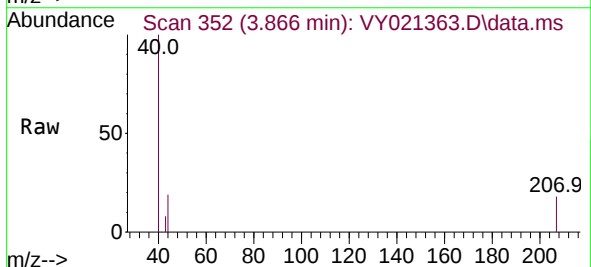
Instrument :
MSVOA_Y
ClientSampleId :

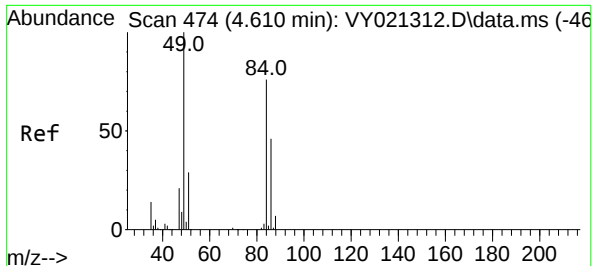
Tgt Ion: 94 Resp: 142
Ion Ratio Lower Upper
94 100
96 160.0 75.2 112.8#



#16
Acetone
Concen: 5.143 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

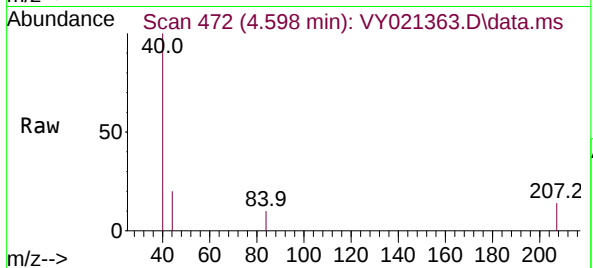
Tgt Ion: 43 Resp: 23
Ion Ratio Lower Upper
43 100
58 0.0 23.5 35.3#



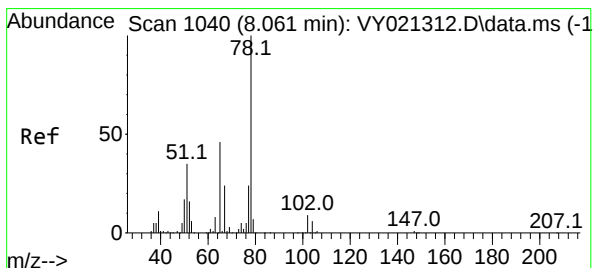
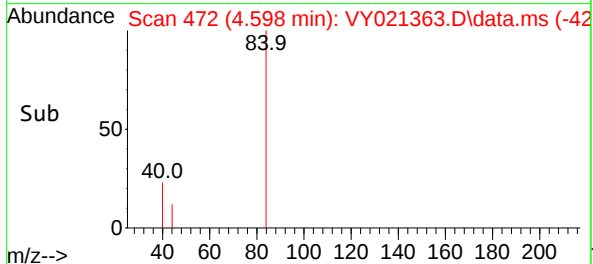
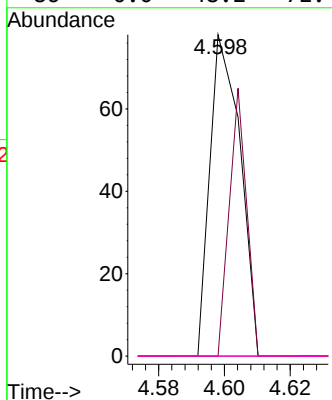


#20
Methylene Chloride
Concen: 2.068 ug/l
RT: 4.598 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Instrument :
MSVOA_Y
ClientSampleId :

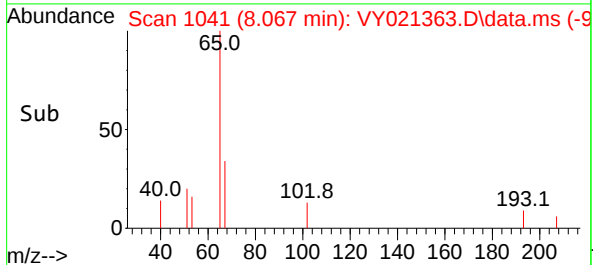
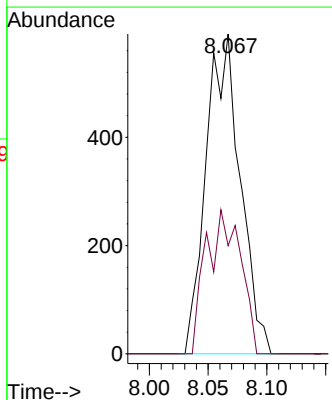
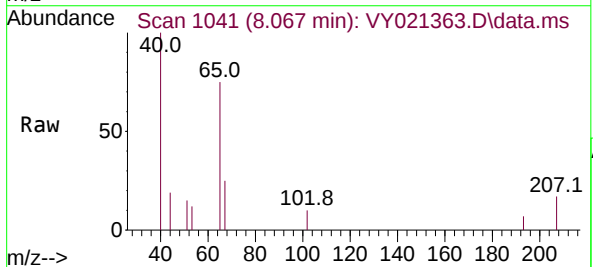


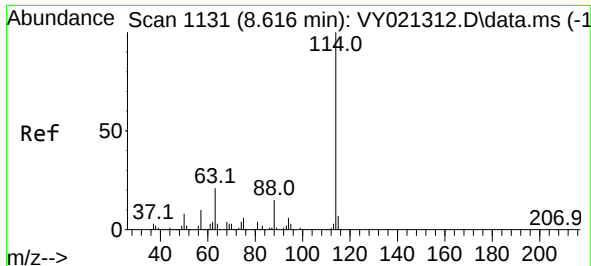
Tgt Ion: 84 Resp: 50
Ion Ratio Lower Upper
84 100
49 0.0 105.1 157.7#
51 0.0 31.0 46.4#
86 0.0 48.2 72.4#



#33
1,2-Dichloroethane-d4
Concen: 51.175 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 65 Resp: 1193
Ion Ratio Lower Upper
65 100
67 45.5 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

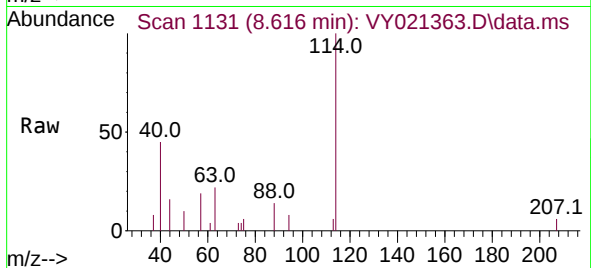
Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

ClientSampleId :



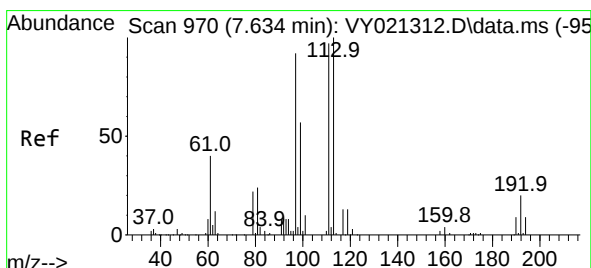
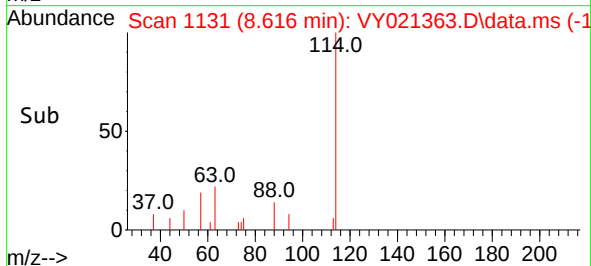
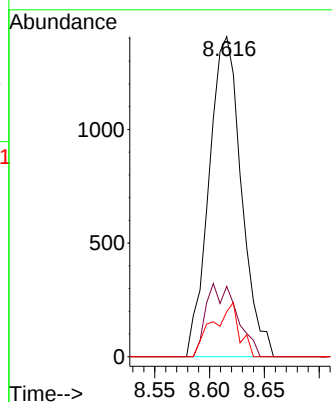
Tgt Ion:114 Resp: 2893

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.2

88 14.1 0.0 29.8



#35

Dibromofluoromethane

Concen: 50.088 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

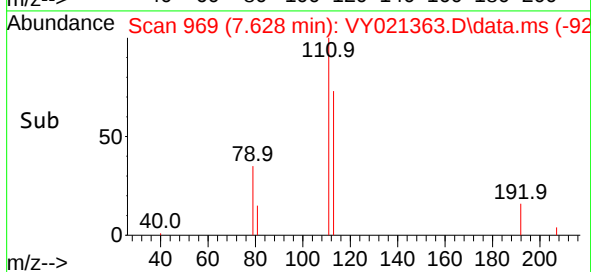
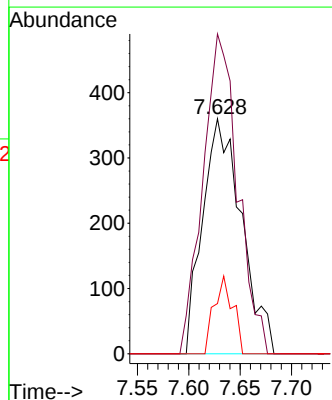
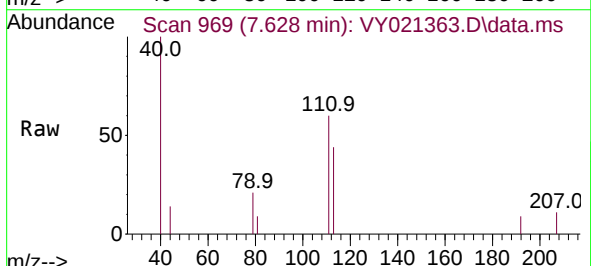
Tgt Ion:113 Resp: 950

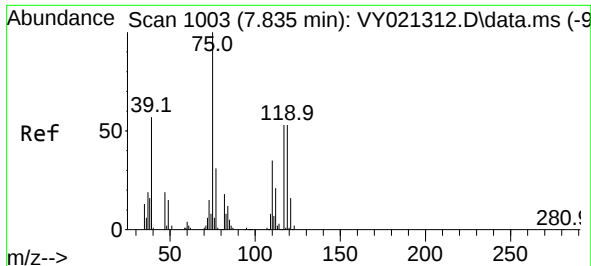
Ion Ratio Lower Upper

113 100

111 121.6 81.0 121.6#

192 15.8 15.8 23.8#





#36

1,1-Dichloropropene

Concen: 1.474 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.134 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

ClientSampleId :

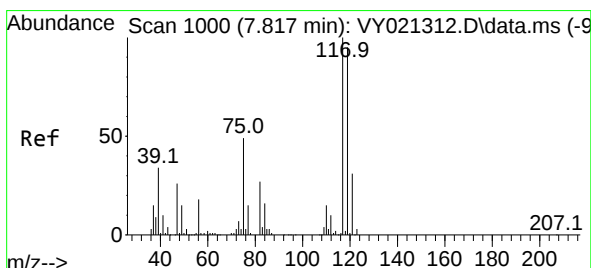
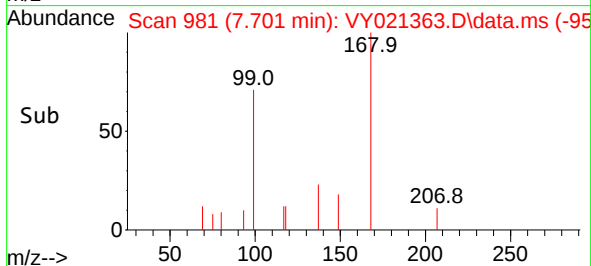
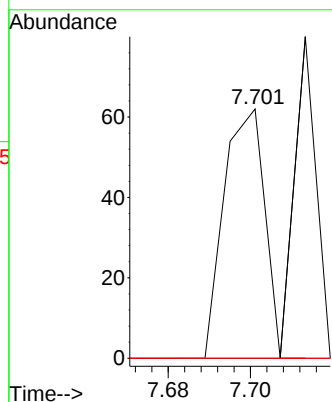
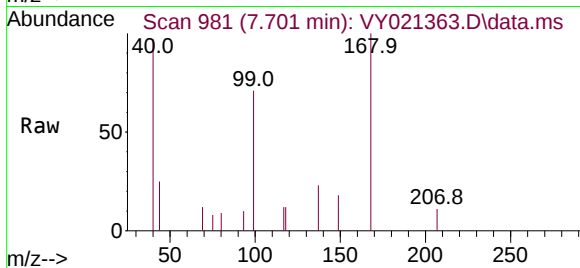
Tgt Ion: 75 Resp: 42

Ion Ratio Lower Upper

75 100

110 0.0 16.9 50.7#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.714 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.122 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

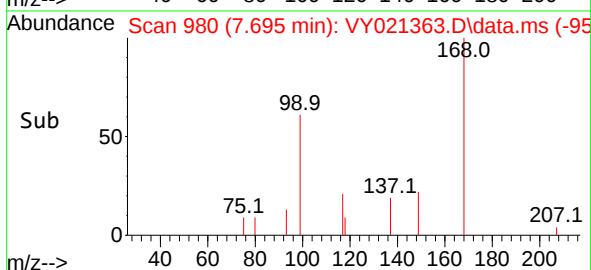
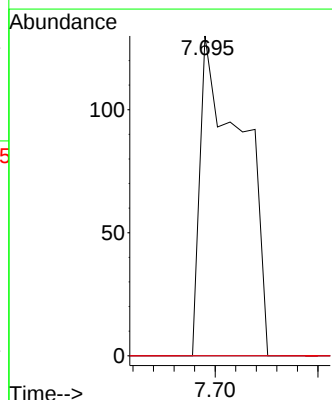
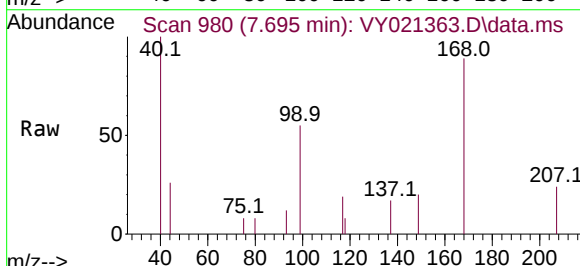
Tgt Ion: 117 Resp: 183

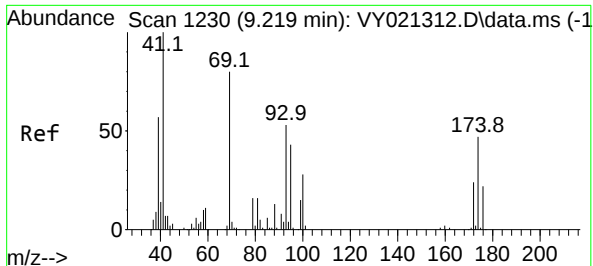
Ion Ratio Lower Upper

117 100

119 0.0 76.0 114.0#

121 0.0 24.9 37.3#





#48

Methyl methacrylate

Concen: 1.481 ug/l

RT: 9.183 min Scan# 11

Delta R.T. -0.036 min

Lab File: VY021363.D

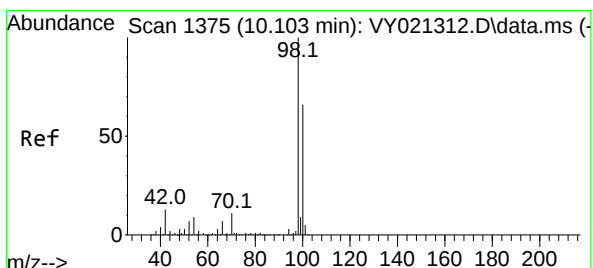
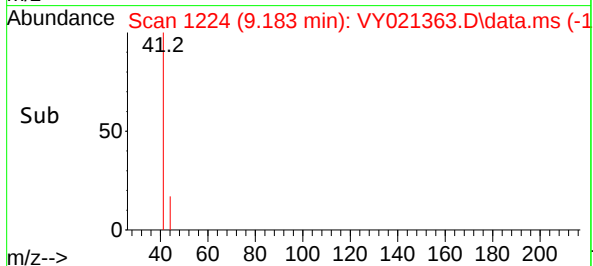
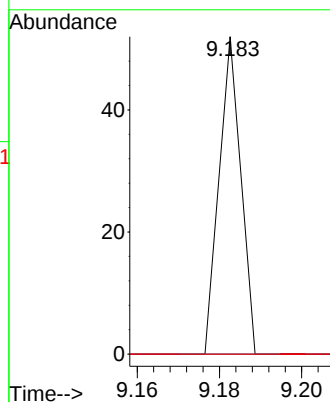
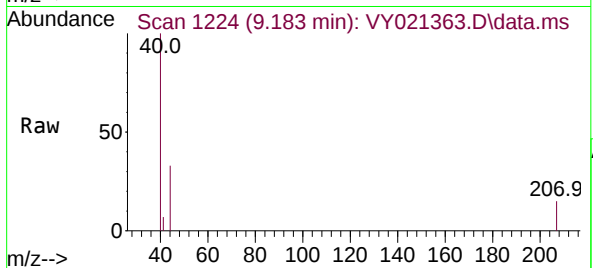
Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 41	Resp: 19
Ion Ratio	Lower Upper
41	100
69	0.0 63.3 94.9#
39	0.0 45.0 67.6#



#50

Toluene-d8

Concen: 39.849 ug/l

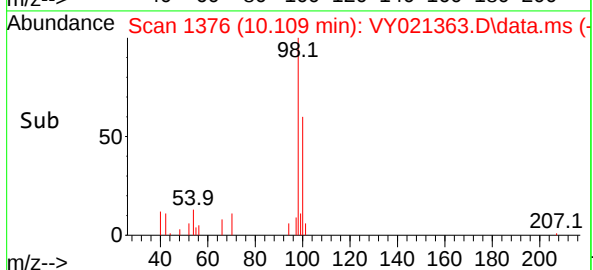
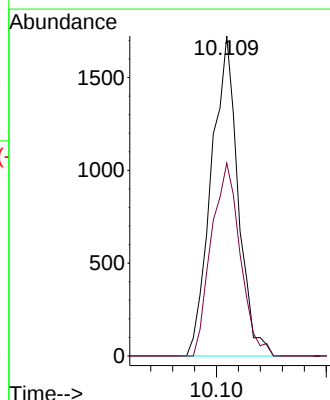
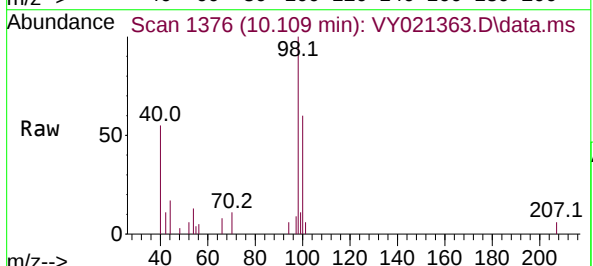
RT: 10.109 min Scan# 1376

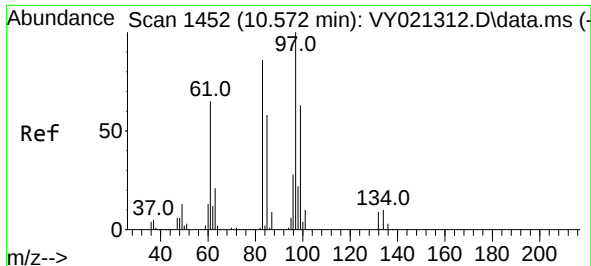
Delta R.T. 0.006 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Tgt Ion: 98	Resp: 2921
Ion Ratio	Lower Upper
98	100
100	65.0 52.4 78.6





#55

1,1,2-Trichloroethane

Concen: 2.910 ug/l

RT: 10.554 min Scan# 14

Delta R.T. -0.018 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 97 Resp: 42

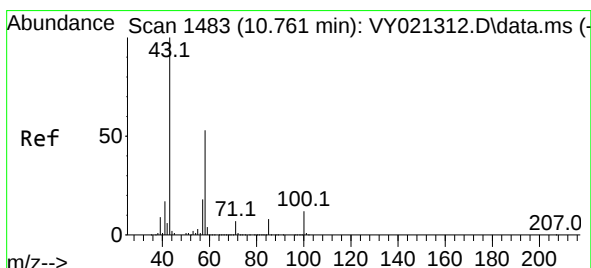
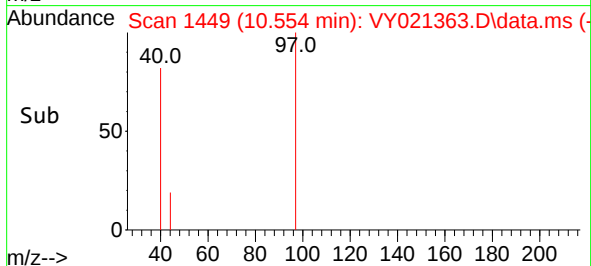
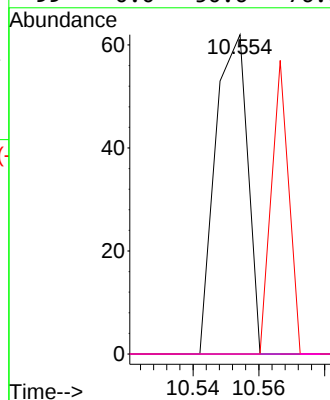
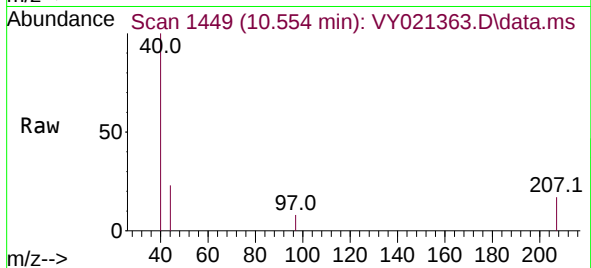
Ion Ratio Lower Upper

97 100

83 0.0 68.7 103.1#

85 0.0 46.3 69.5#

99 0.0 50.6 76.0#



#59

2-Hexanone

Concen: 43.484 ug/l

RT: 10.731 min Scan# 1478

Delta R.T. -0.030 min

Lab File: VY021363.D

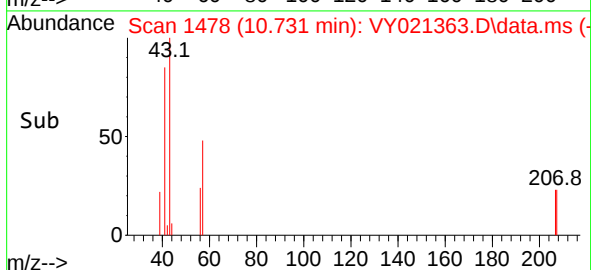
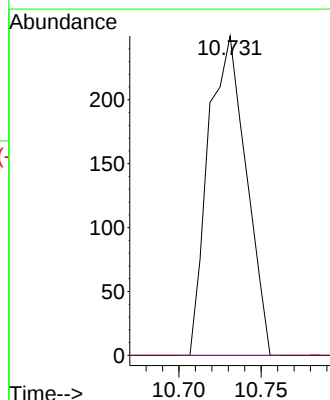
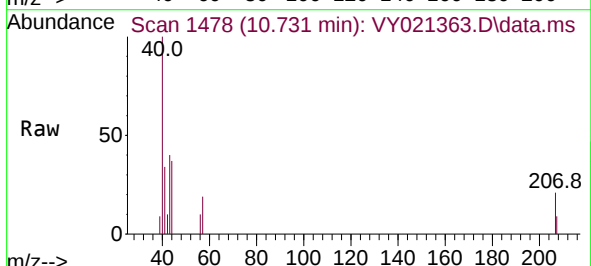
Acq: 27 Feb 2025 17:09

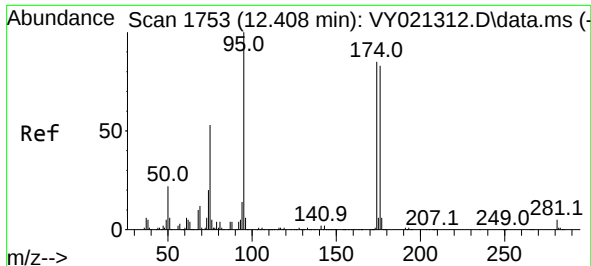
Tgt Ion: 43 Resp: 401

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#

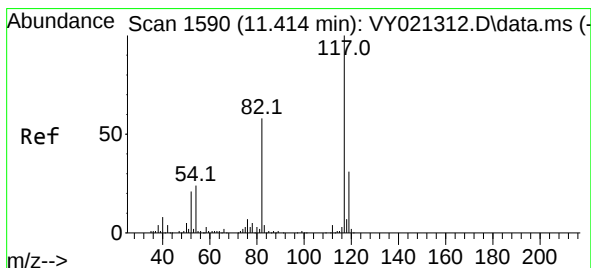
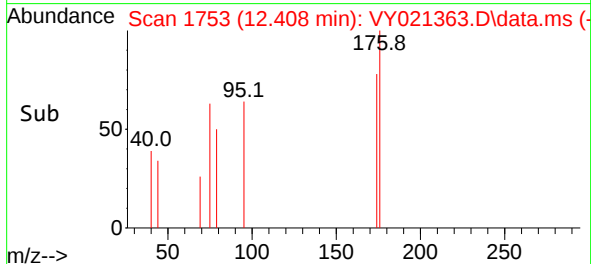
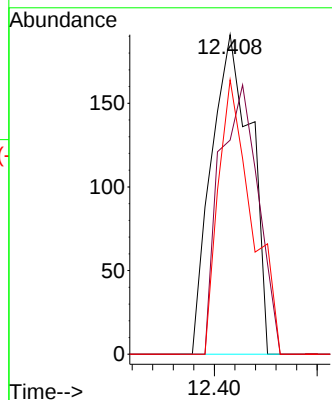
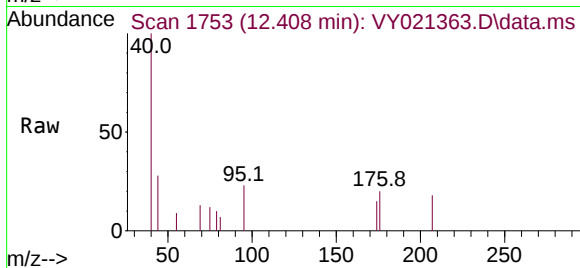




#62
4-Bromofluorobenzene
Concen: 10.377 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

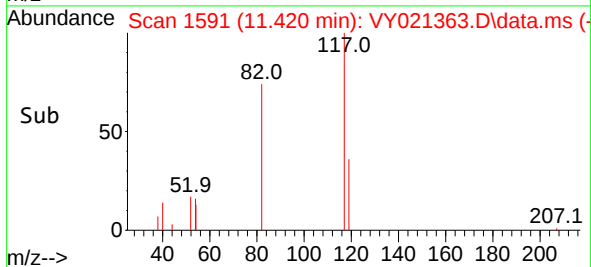
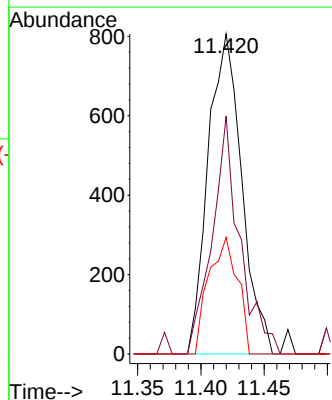
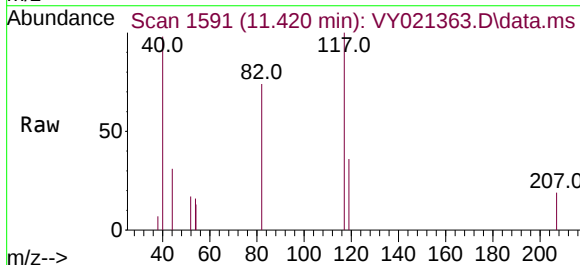
Instrument :
MSVOA_Y
ClientSampleId :

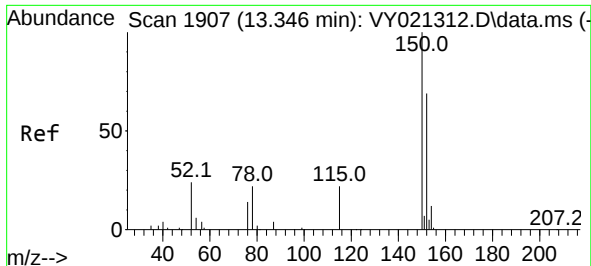
Tgt Ion:	95	Resp:	256
Ion	Ratio	Lower	Upper
95	100		
174	82.0	0.0	168.0
176	72.3	0.0	162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion:	117	Resp:	1489
Ion	Ratio	Lower	Upper
117	100		
82	74.3	46.2	69.4
119	36.5	24.9	37.3

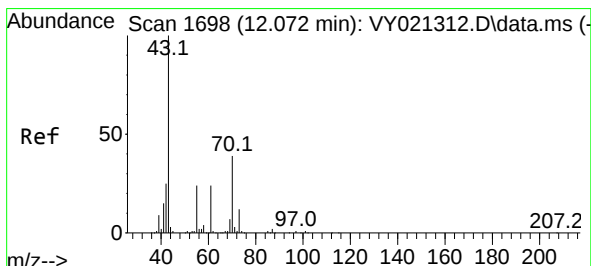
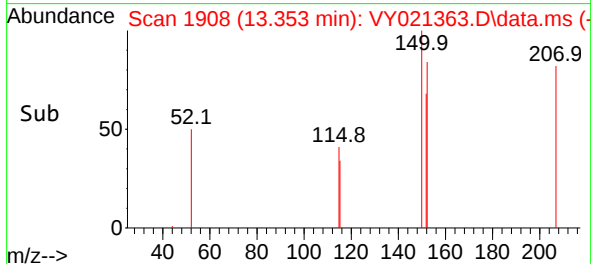
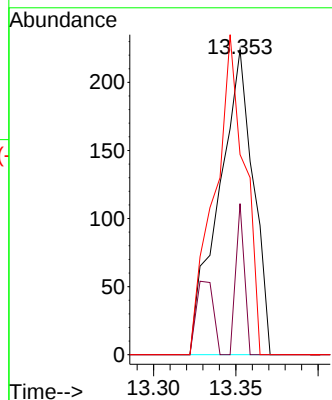
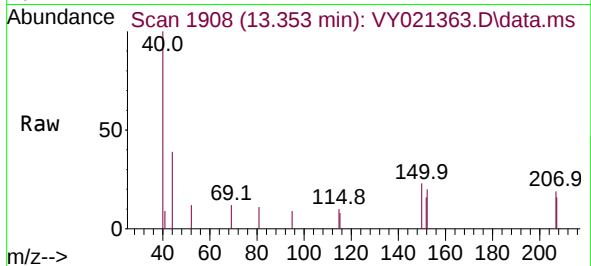




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

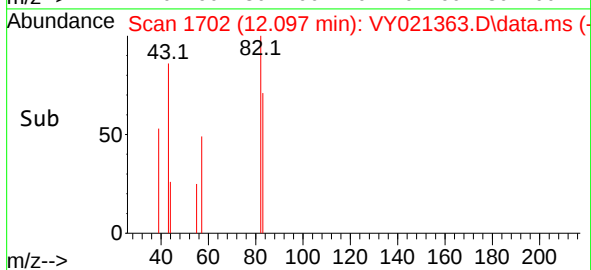
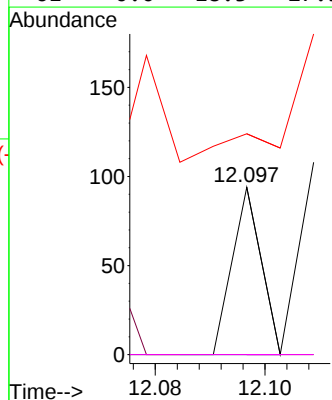
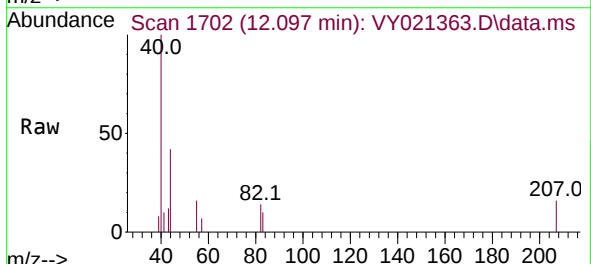
Instrument :
MSVOA_Y
ClientSampleId :

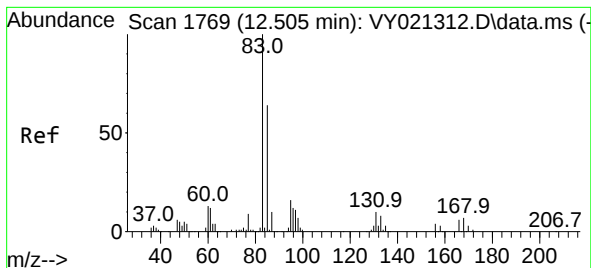
Tgt Ion:152 Resp: 326
Ion Ratio Lower Upper
152 100
115 12.6 29.3 88.0#
150 92.3 0.0 347.4



#74
N-ethyl acetate
Concen: 5.458 ug/l
RT: 12.097 min Scan# 1702
Delta R.T. 0.024 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 43 Resp: 34
Ion Ratio Lower Upper
43 100
70 0.0 32.2 48.2#
55 0.0 19.6 29.4#
61 0.0 18.3 27.5#





#75

1,1,2,2-Tetrachloroethane

Concen: 26.818 ug/l

RT: 12.560 min Scan# 11

Delta R.T. 0.055 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

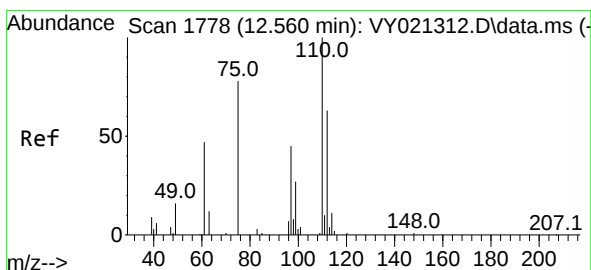
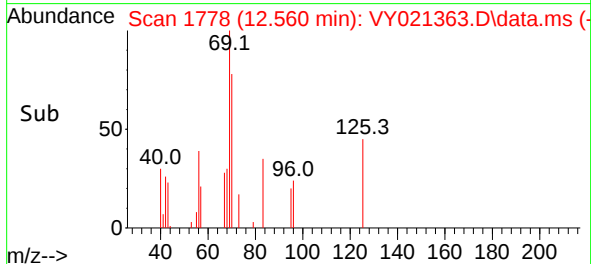
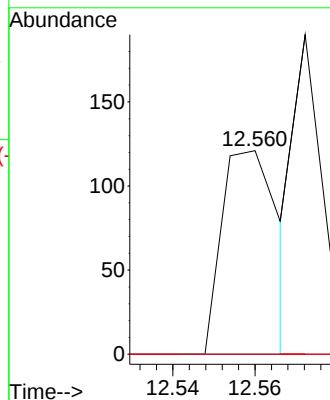
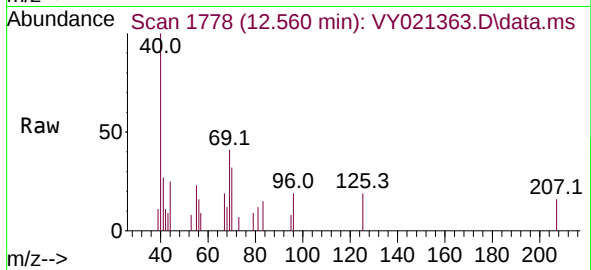
Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 83 Resp: 116

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.2	15.6#
85	0.0	32.0	96.0#



#76

1,2,3-Trichloropropane

Concen: 53.937 ug/l

RT: 12.395 min Scan# 1751

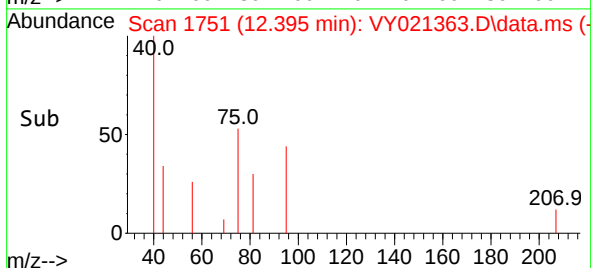
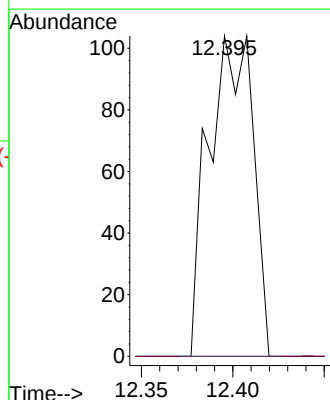
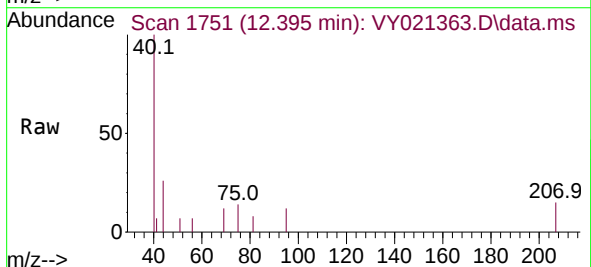
Delta R.T. -0.165 min

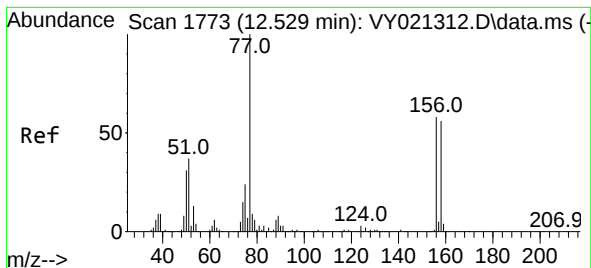
Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Tgt Ion: 75 Resp: 176

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.035 ug/l

RT: 12.615 min Scan# 11

Delta R.T. 0.085 min

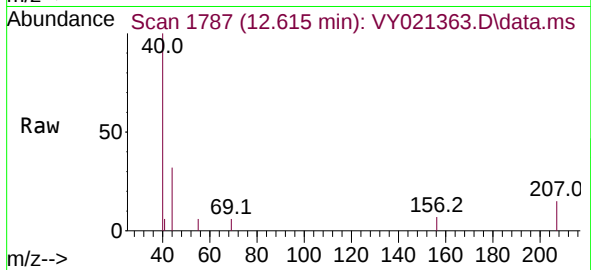
Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

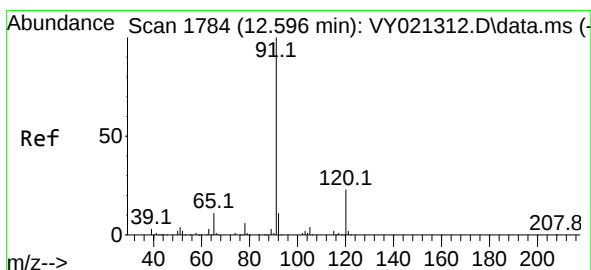
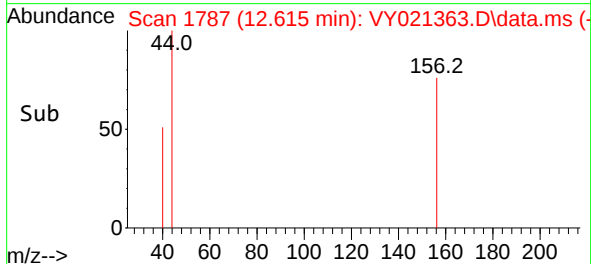
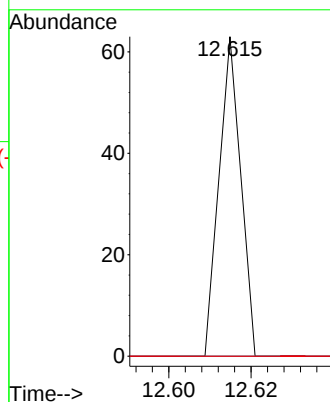
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	156	Resp:	23
Ion	Ratio	Lower	Upper
156	100		
77	0.0	94.0	282.1#
158	0.0	48.7	146.1#



#78

n-propylbenzene

Concen: 2.892 ug/l

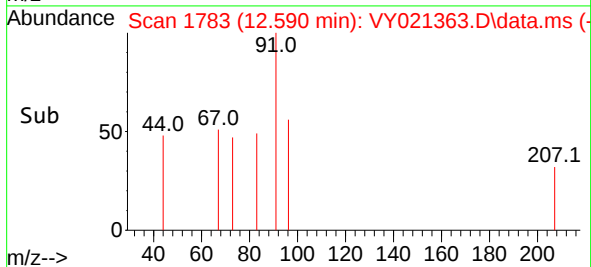
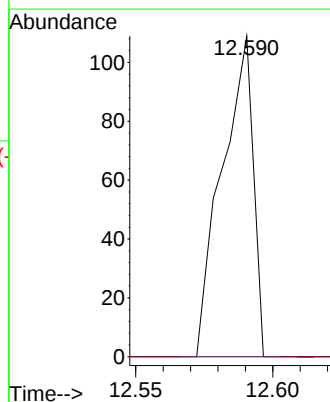
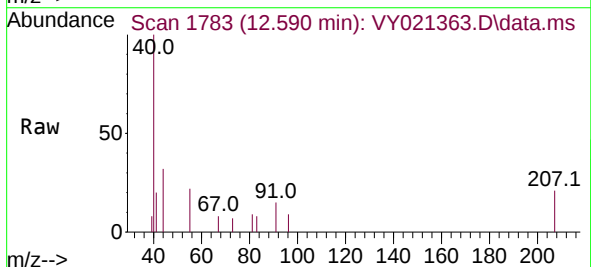
RT: 12.590 min Scan# 1783

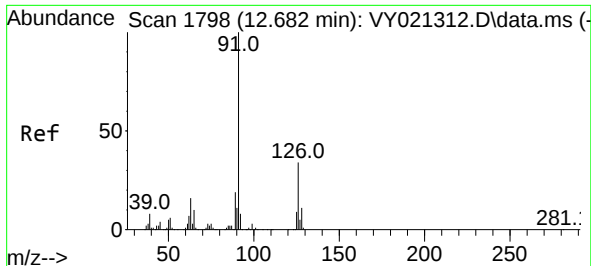
Delta R.T. -0.006 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Tgt Ion:	91	Resp:	86
Ion	Ratio	Lower	Upper
91	100		
120	0.0	11.2	33.5#

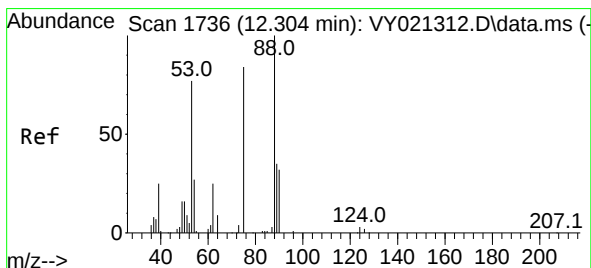
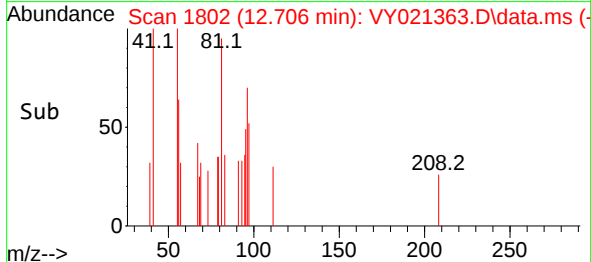
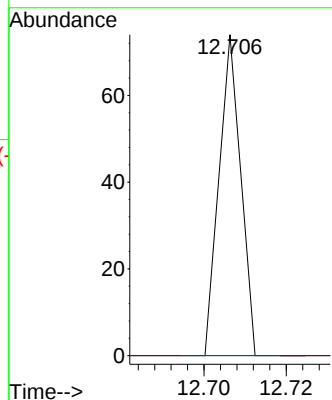
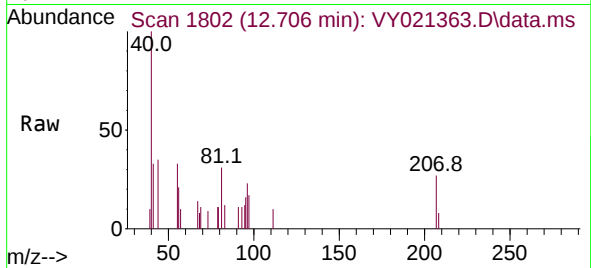




#79
2-Chlorotoluene
Concen: 1.582 ug/l
RT: 12.706 min Scan# 1798
Delta R.T. 0.024 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

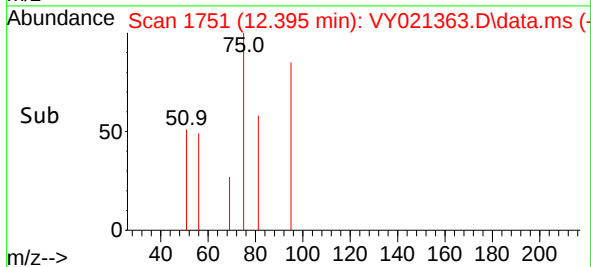
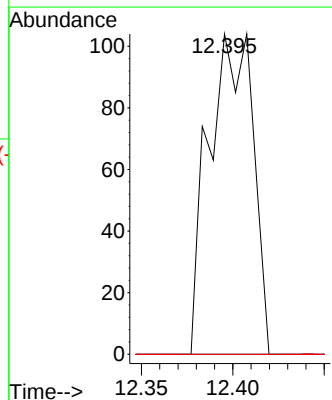
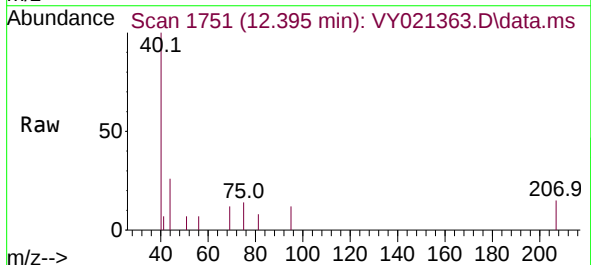
Instrument :
MSVOA_Y
ClientSampleId :

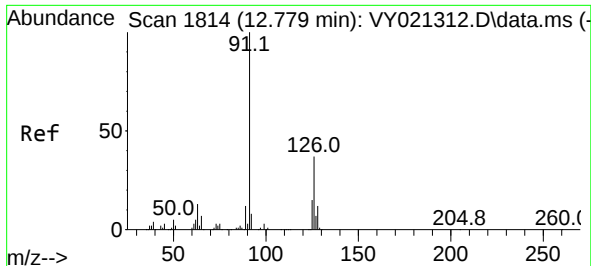
Tgt Ion: 91 Resp: 27
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 119.882 ug/l
RT: 12.395 min Scan# 1751
Delta R.T. 0.092 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 75 Resp: 176
Ion Ratio Lower Upper
75 100
53 0.0 79.1 118.7#
89 0.0 35.6 53.4#

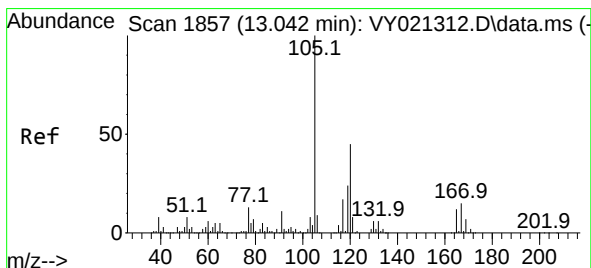
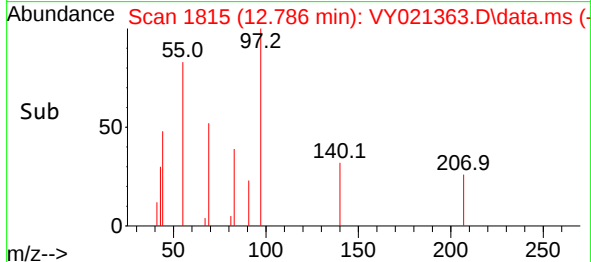
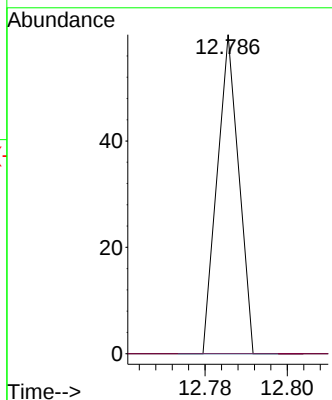
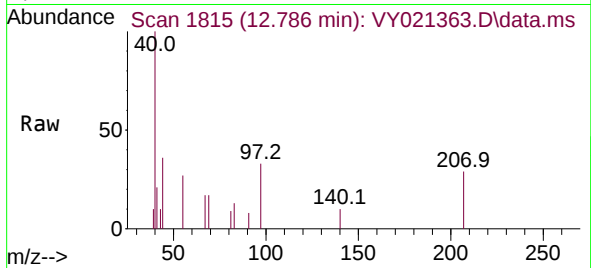




#82
4-Chlorotoluene
Concen: 1.243 ug/l
RT: 12.786 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

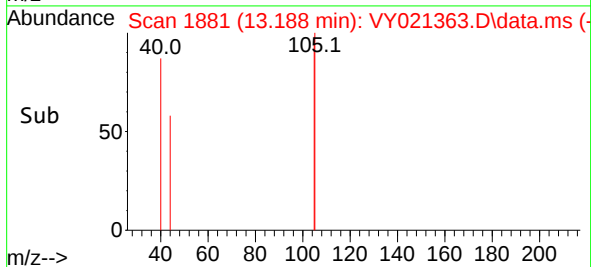
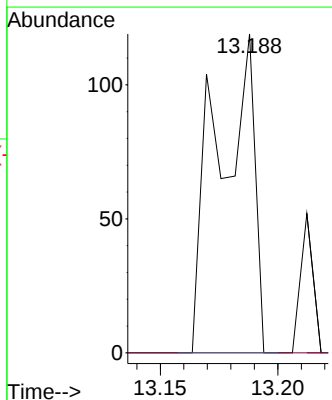
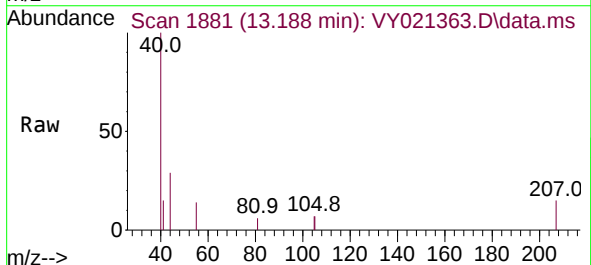
Instrument :
MSVOA_Y
ClientSampleId :

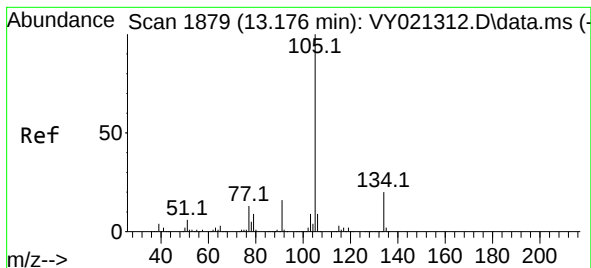
Tgt Ion: 91 Resp: 22
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#



#84
1,2,4-Trimethylbenzene
Concen: 6.453 ug/l
RT: 13.188 min Scan# 1881
Delta R.T. 0.146 min
Lab File: VY021363.D
Acq: 27 Feb 2025 17:09

Tgt Ion: 105 Resp: 129
Ion Ratio Lower Upper
105 100
120 0.0 22.4 67.3#





#85

sec-Butylbenzene

Concen: 4.864 ug/l

RT: 13.188 min Scan# 1881

Delta R.T. 0.012 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Instrument :

MSVOA_Y

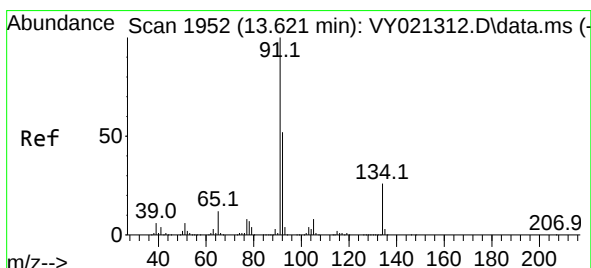
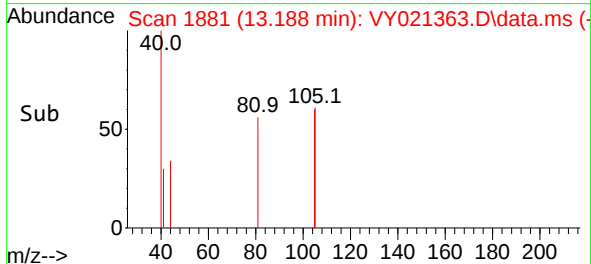
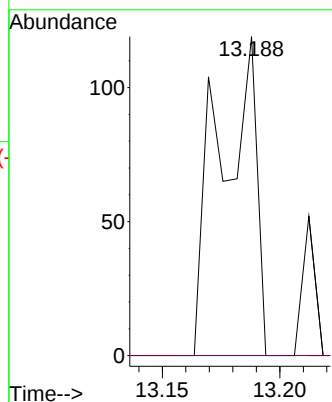
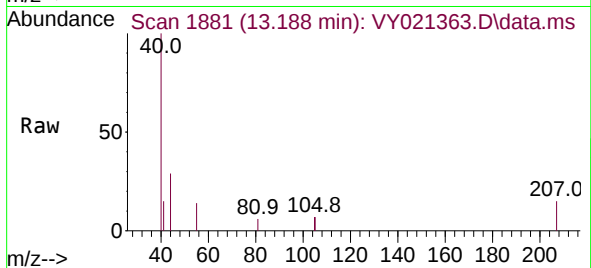
ClientSampleId :

Tgt Ion:105 Resp: 129

Ion Ratio Lower Upper

105 100

134 0.0 10.0 30.0#



#89

n-Butylbenzene

Concen: 2.783 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VY021363.D

Acq: 27 Feb 2025 17:09

Tgt Ion: 91 Resp: 58

Ion Ratio Lower Upper

91 100

92 0.0 26.4 79.2#

134 0.0 12.7 38.0#

