

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021364.D
 Acq On : 27 Feb 2025 17:32
 Operator : SY/MD
 Sample : Q1411-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 28 00:43:38 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)

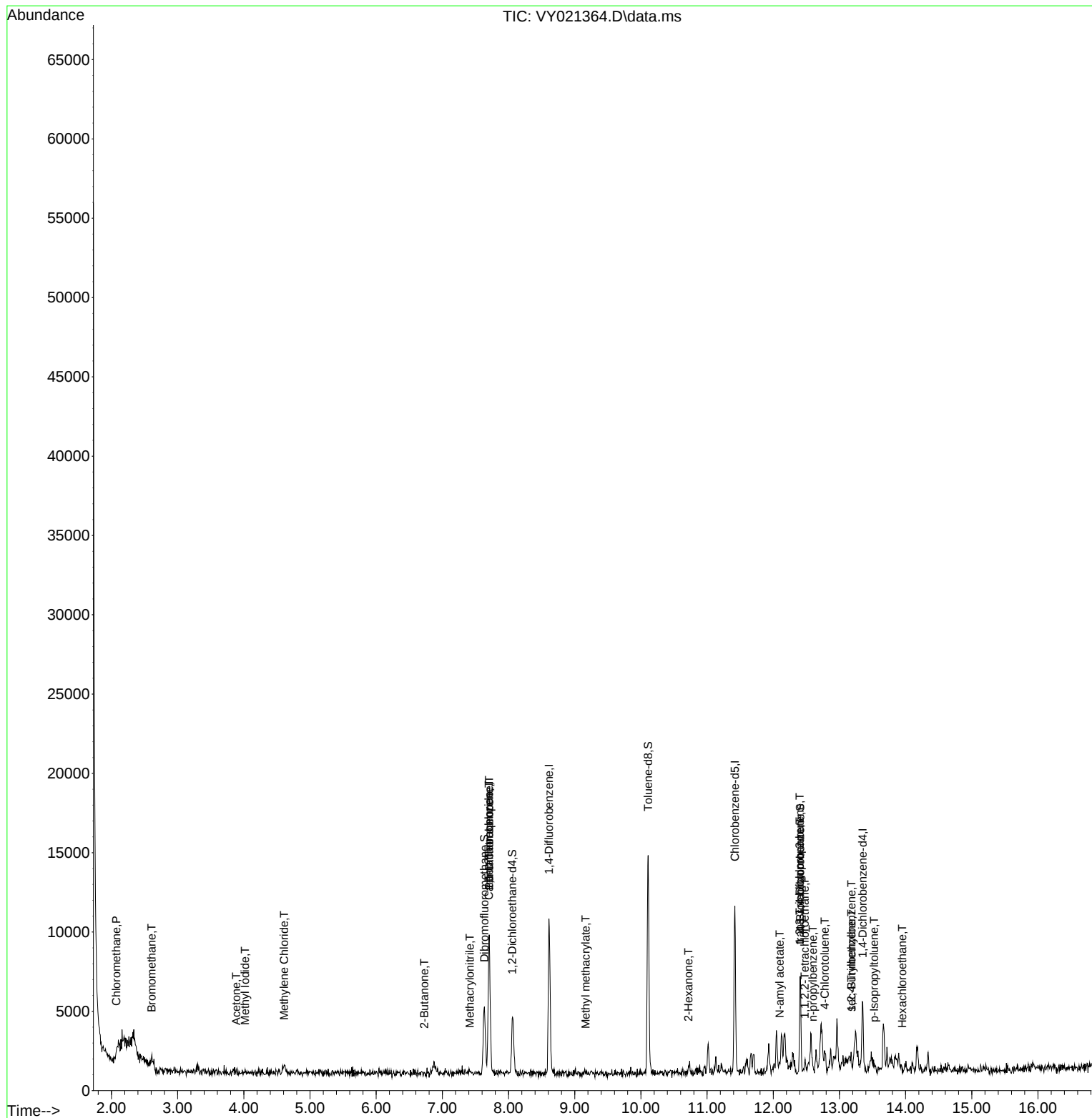
Internal Standards						
1) Pentafluorobenzene	7.707	168	6638	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.610	114	8564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	5740	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	1191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	3259	43.279	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.560%
35) Dibromofluoromethane	7.634	113	3295	58.686	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	117.380%
50) Toluene-d8	10.109	98	9210	42.444	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.880%
62) 4-Bromofluorobenzene	12.408	95	1741	23.841	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	47.680%
Target Compounds						
						Qvalue
3) Chloromethane	2.074	50	179	2.202	ug/l	# 41
5) Bromomethane	2.605	94	234	4.414	ug/l	# 65
10) Methyl Iodide	4.019	142	217	2.957	ug/l	# 57
16) Acetone	3.885	43	53	3.669	ug/l	# 45
20) Methylene Chloride	4.610	84	411	5.262	ug/l	# 73
25) 2-Butanone	6.726	43	22	1.009	ug/l	# 52
36) 1,1-Dichloropropene	7.707	75	600	7.114	ug/l	# 42
38) Carbon Tetrachloride	7.701	117	722	7.615	ug/l	# 12
41) Methacrylonitrile	7.415	41	24	1.023	ug/l	# 25
48) Methyl methacrylate	9.164	41	83	2.186	ug/l	# 15
59) 2-Hexanone	10.719	43	318	11.649	ug/l	# 26
74) N-amyl acetate	12.097	43	56	2.461	ug/l	# 44
75) 1,1,2,2-Tetrachloroethane	12.475	83	45	2.848	ug/l	# 26
76) 1,2,3-Trichloropropane	12.402	75	1048	87.910	ug/l	# 100
78) n-propylbenzene	12.597	91	121	1.114	ug/l	# 53
81) trans-1,4-Dichloro-2-b...	12.402	75	1048	195.393	ug/l	# 10
82) 4-Chlorotoluene	12.780	91	67	1.037	ug/l	# 41
84) 1,2,4-Trimethylbenzene	13.182	105	251	3.437	ug/l	# 31
85) sec-Butylbenzene	13.182	105	251	2.590	ug/l	# 56
86) p-Isopropyltoluene	13.523	119	87	1.075	ug/l	# 50
90) Hexachloroethane	13.950	117	30	1.775	ug/l	# 11

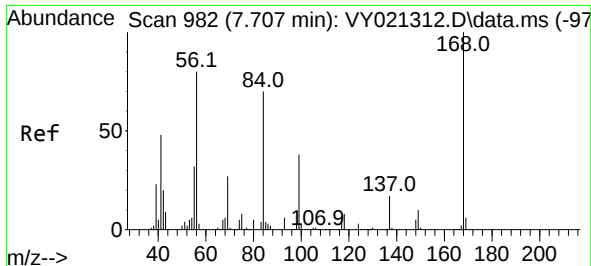
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

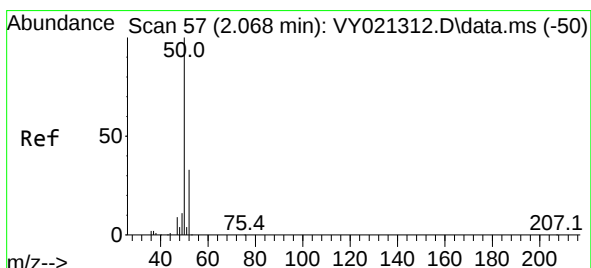
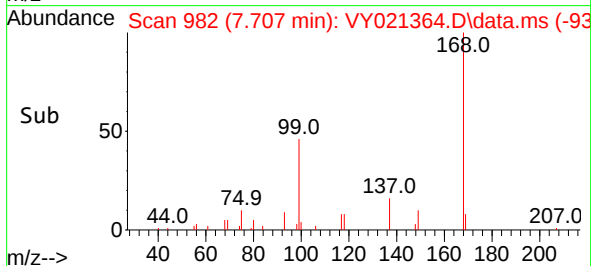
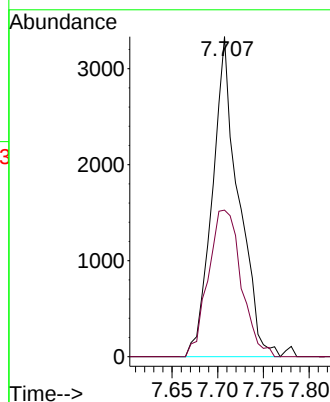
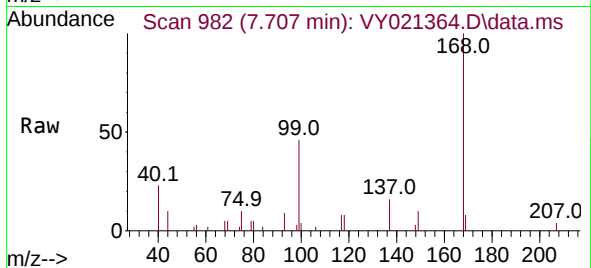




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

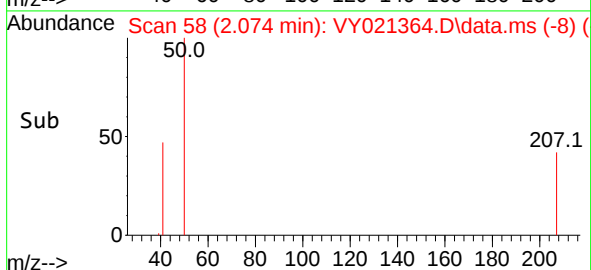
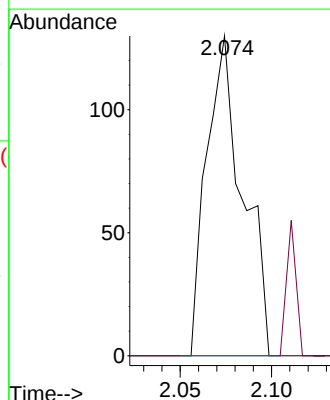
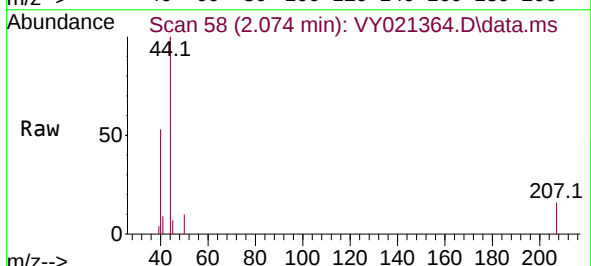
Instrument :
MSVOA_Y
ClientSampleId :

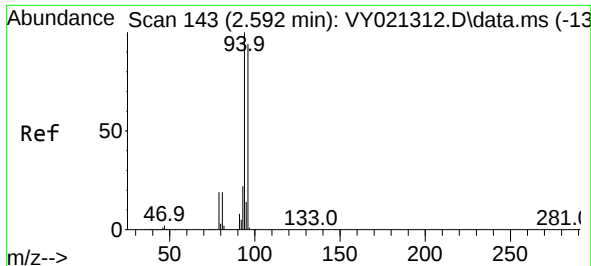
Tgt Ion:168 Resp: 6638
Ion Ratio Lower Upper
168 100
99 45.8 47.1 70.7#



#3
Chloromethane
Concen: 2.202 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion: 50 Resp: 179
Ion Ratio Lower Upper
50 100
52 0.0 26.6 40.0#

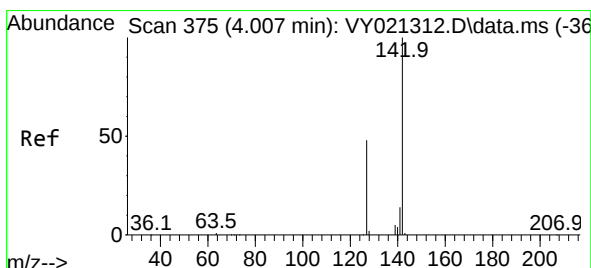
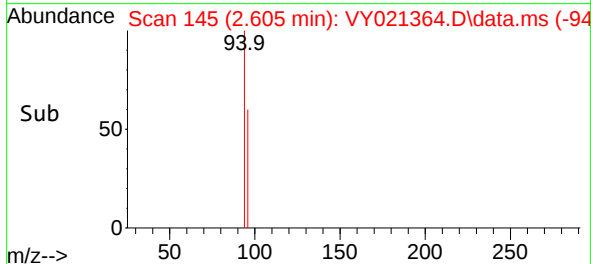
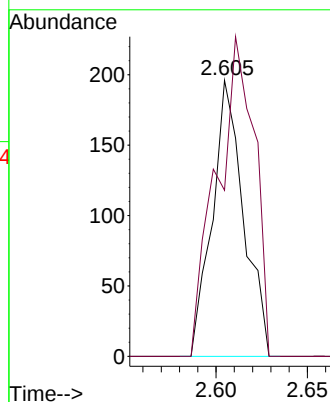
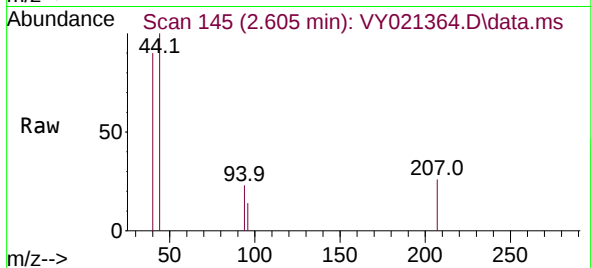




#5
Bromomethane
Concen: 4.414 ug/l
RT: 2.605 min Scan# 143
Delta R.T. 0.012 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

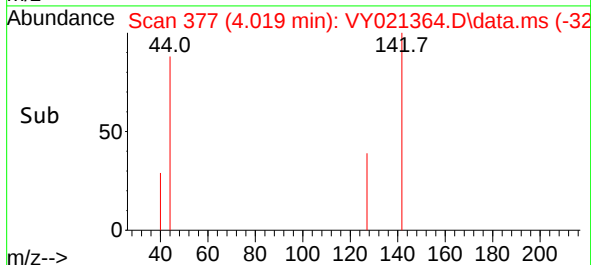
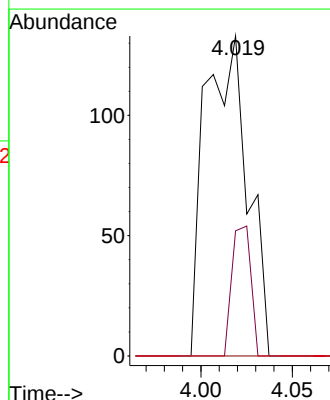
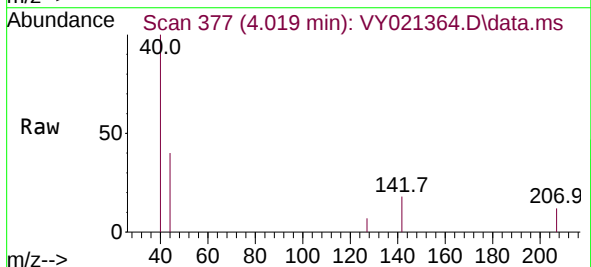
Instrument :
MSVOA_Y
ClientSampleId :

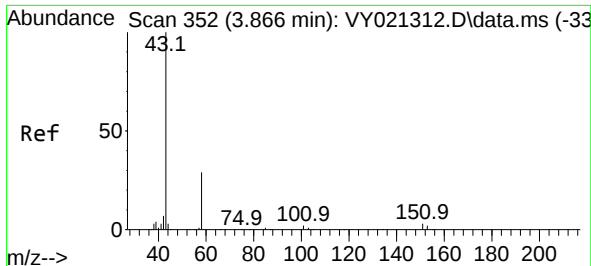
Tgt Ion: 94 Resp: 234
Ion Ratio Lower Upper
94 100
96 60.2 75.2 112.8#



#10
Methyl Iodide
Concen: 2.957 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion:142 Resp: 217
Ion Ratio Lower Upper
142 100
127 18.0 39.2 58.8#
141 0.0 11.4 17.2#

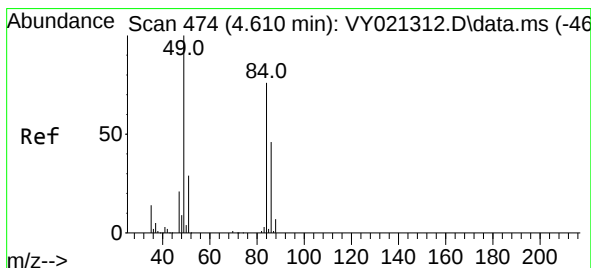
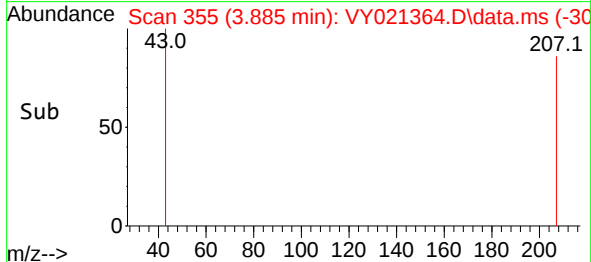
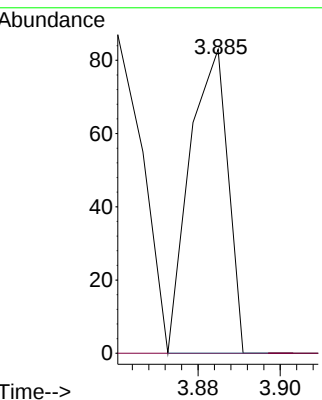
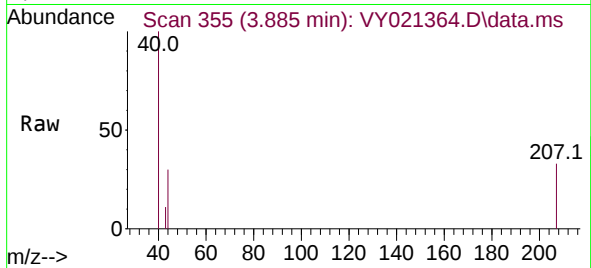




#16
Acetone
Concen: 3.669 ug/l
RT: 3.885 min Scan# 31
Delta R.T. 0.019 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

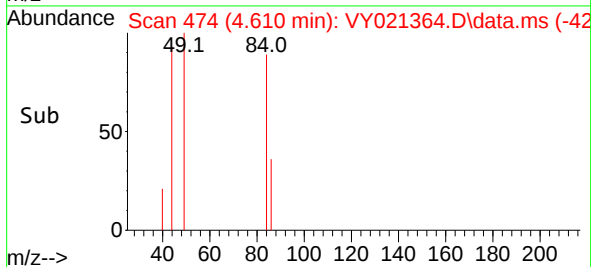
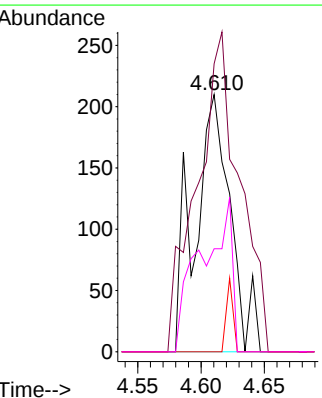
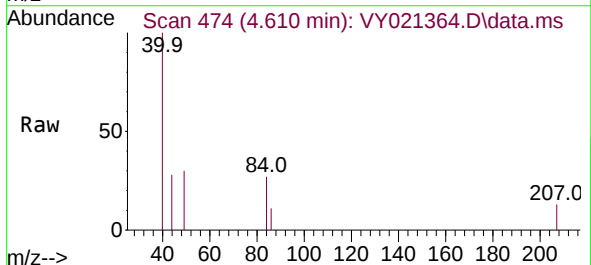
Instrument :
MSVOA_Y
ClientSampleId :

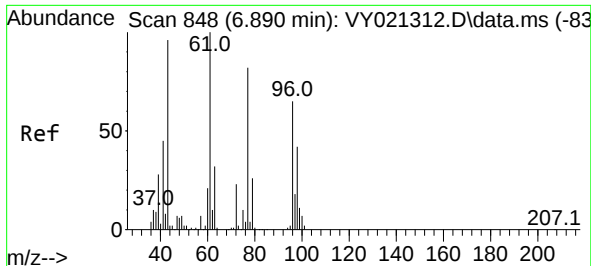
Tgt Ion: 43 Resp: 53
Ion Ratio Lower Upper
43 100
58 0.0 23.5 35.3#



#20
Methylene Chloride
Concen: 5.262 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

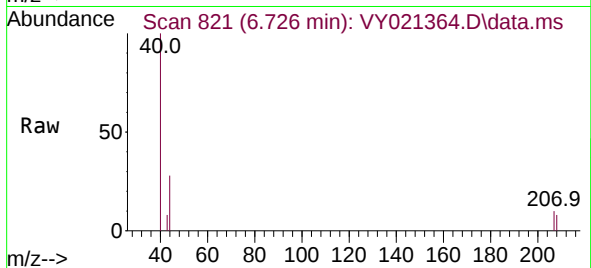
Tgt Ion: 84 Resp: 411
Ion Ratio Lower Upper
84 100
49 111.9 105.1 157.7
51 0.0 31.0 46.4#
86 40.0 48.2 72.4#



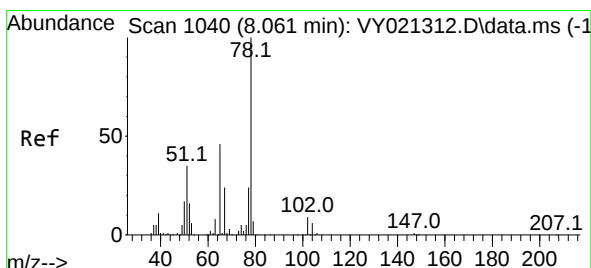
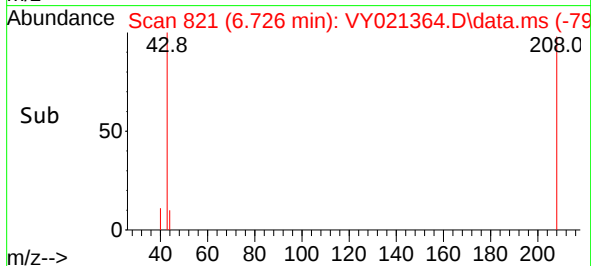
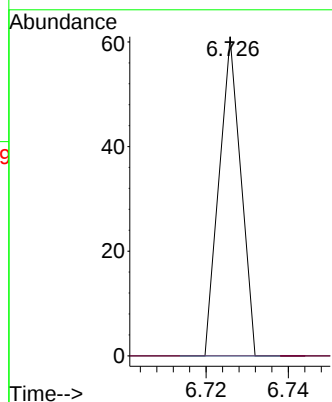


#25
2-Butanone
Concen: 1.009 ug/l
RT: 6.726 min Scan# 81
Delta R.T. -0.164 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Instrument :
MSVOA_Y
ClientSampleId :

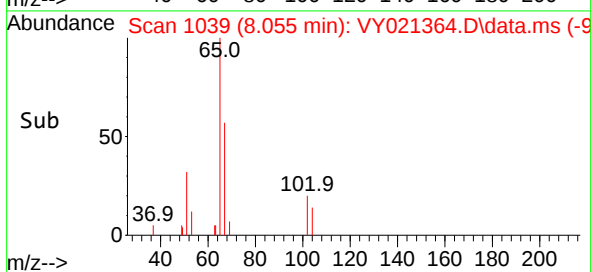
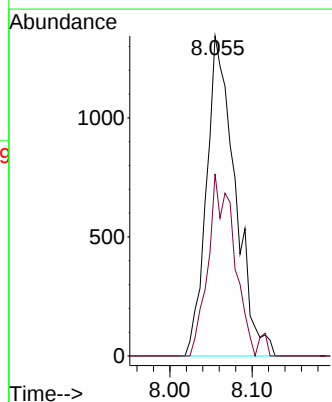
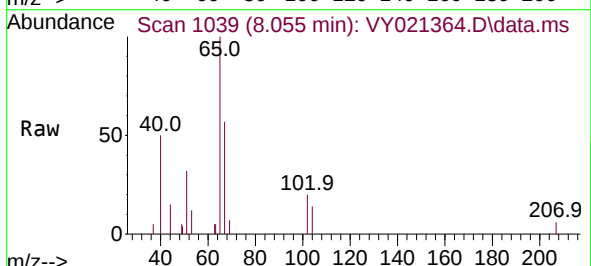


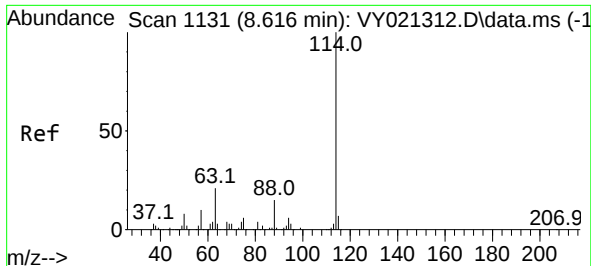
Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#



#33
1,2-Dichloroethane-d4
Concen: 43.279 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion: 65 Resp: 3259
Ion Ratio Lower Upper
65 100
67 51.4 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021364.D

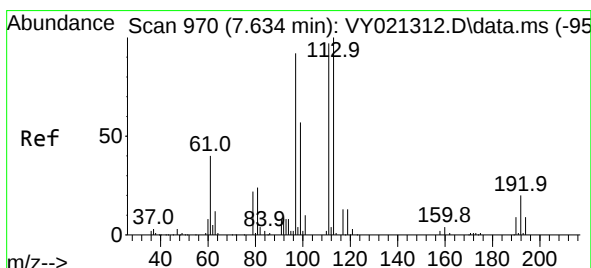
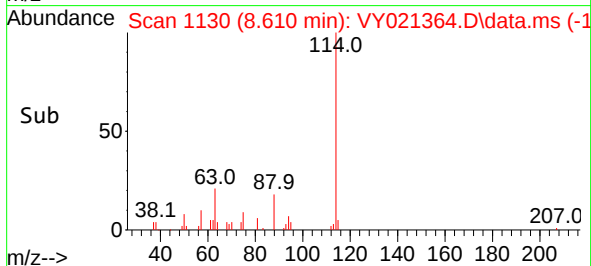
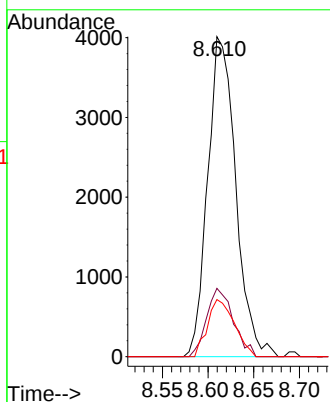
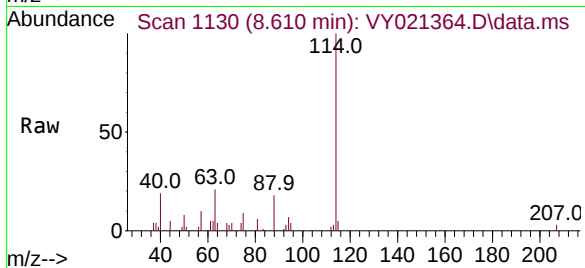
Acq: 27 Feb 2025 17:32

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:114	Resp:	8564
Ion	Ratio	Lower Upper
114	100	
63	21.3	0.0 42.2
88	17.8	0.0 29.8



#35

Dibromofluoromethane

Concen: 58.686 ug/l

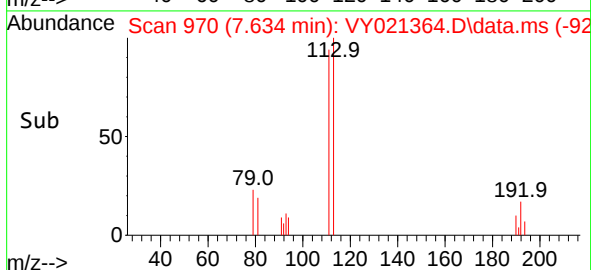
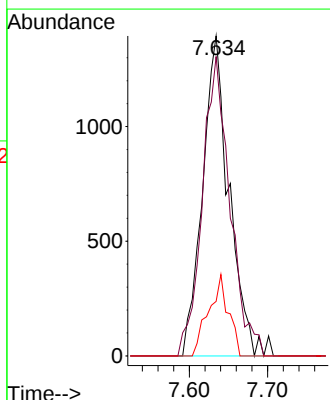
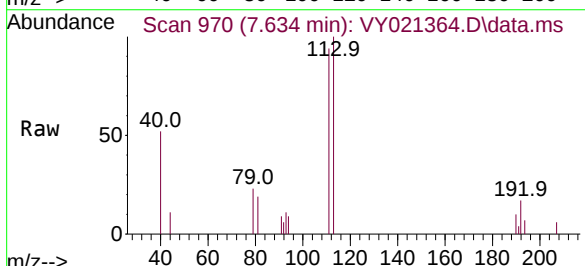
RT: 7.634 min Scan# 970

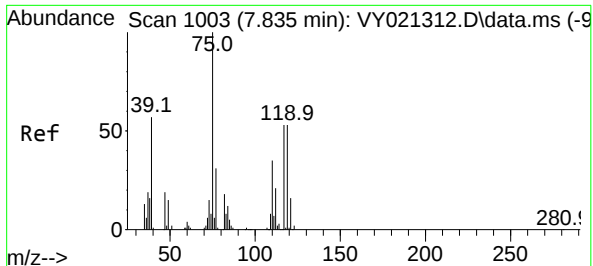
Delta R.T. 0.000 min

Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

Tgt Ion:113	Resp:	3295
Ion	Ratio	Lower Upper
113	100	
111	97.3	81.0 121.6
192	18.8	15.8 23.8





#36

1,1-Dichloropropene

Concen: 7.114 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

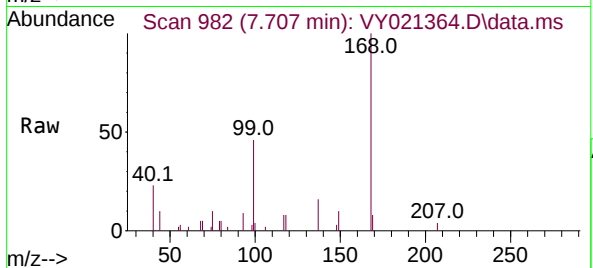
Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

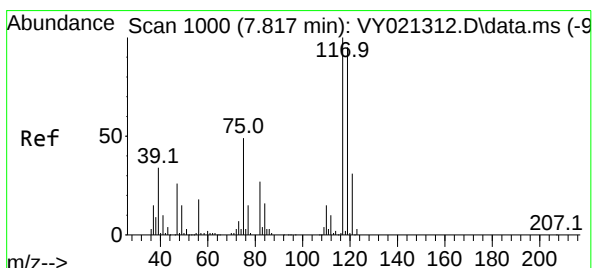
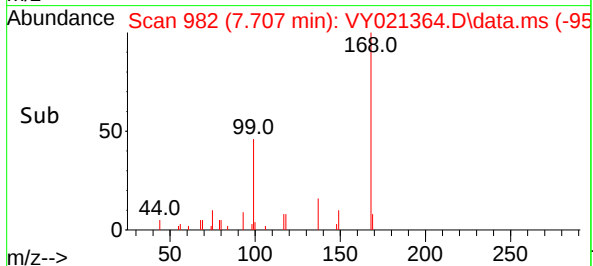
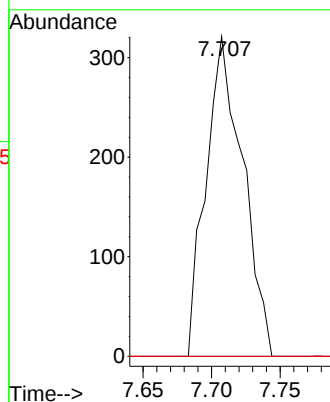
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 600
Ion Ratio	Lower Upper
75 100	
110 0.0	16.9 50.7#
77 0.0	24.6 36.8#



#38

Carbon Tetrachloride

Concen: 7.615 ug/l

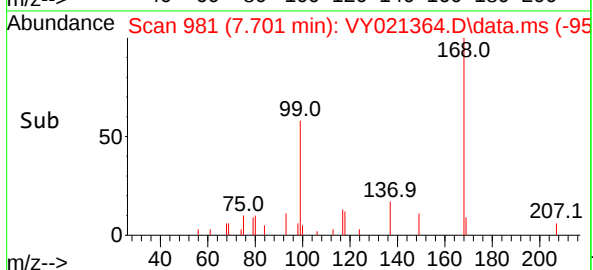
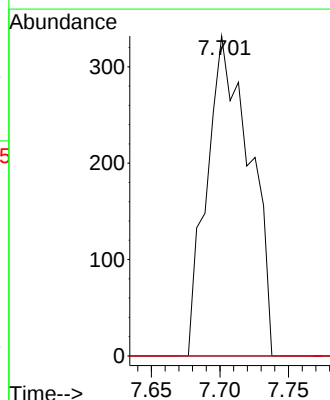
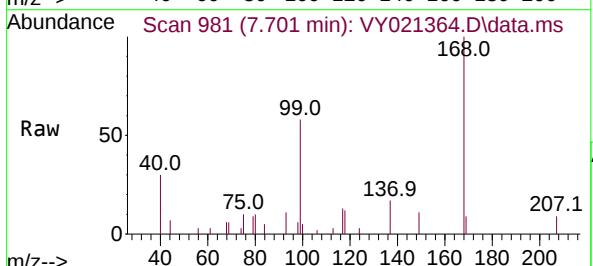
RT: 7.701 min Scan# 981

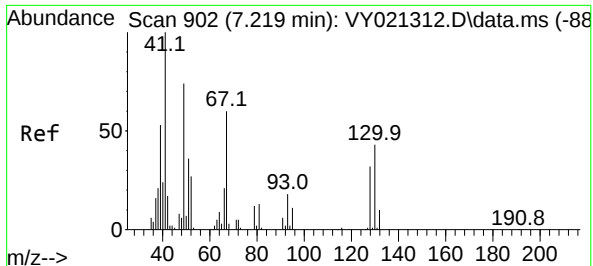
Delta R.T. -0.116 min

Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

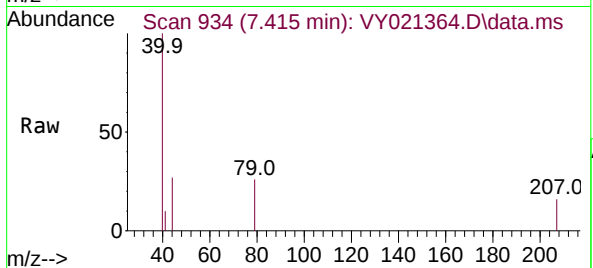
Tgt Ion: 117	Resp: 722
Ion Ratio	Lower Upper
117 100	
119 0.0	76.0 114.0#
121 0.0	24.9 37.3#



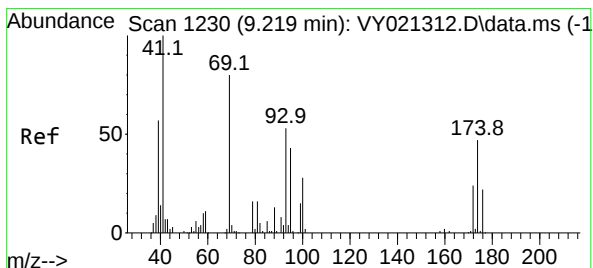
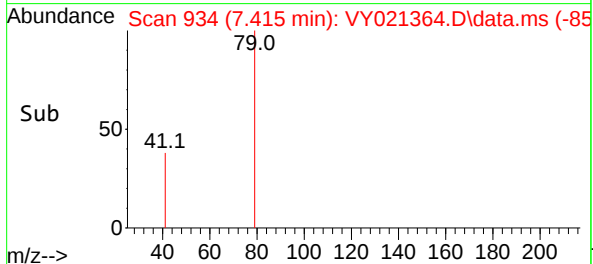
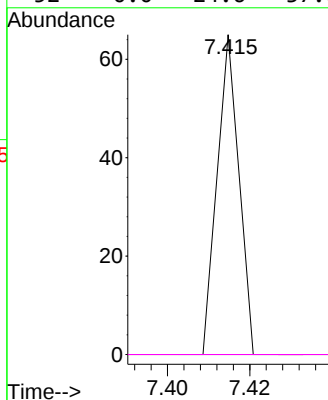


#41
Methacrylonitrile
Concen: 1.023 ug/l
RT: 7.415 min Scan# 91
Delta R.T. 0.195 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Instrument :
MSVOA_Y
ClientSampleId :

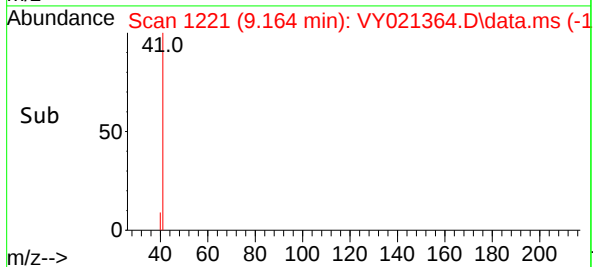
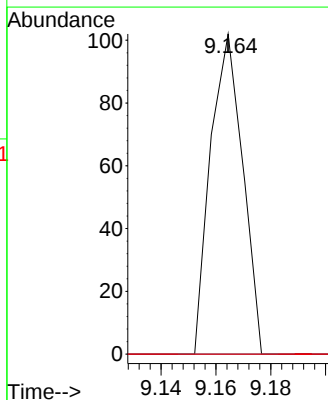
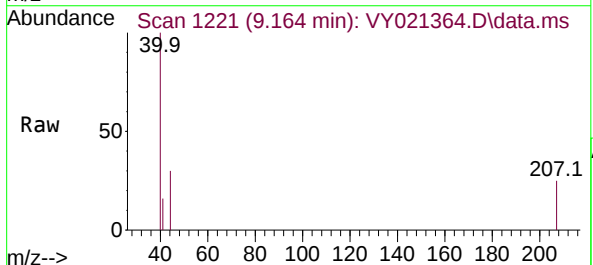


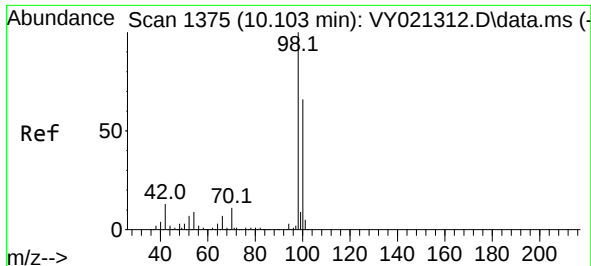
Tgt Ion:	41	Resp:	24
Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.3	63.5#
67	0.0	54.8	82.2#
52	0.0	24.6	37.0#



#48
Methyl methacrylate
Concen: 2.186 ug/l
RT: 9.164 min Scan# 1221
Delta R.T. -0.055 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion:	41	Resp:	83
Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.3	94.9#
39	0.0	45.0	67.6#

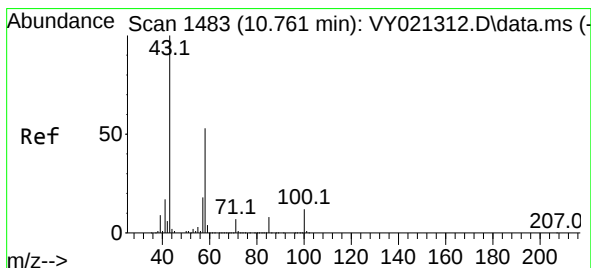
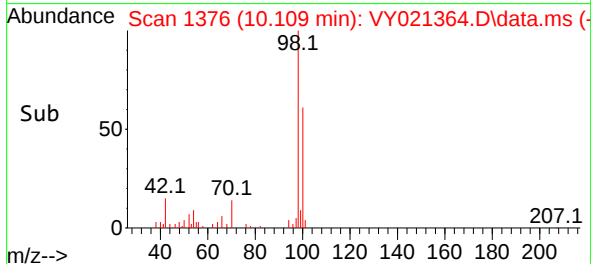
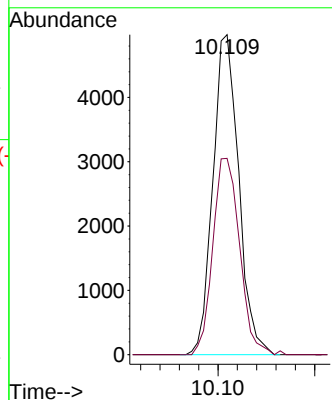
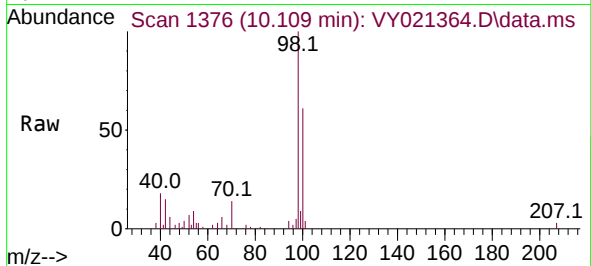




#50
Toluene-d8
Concen: 42.444 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

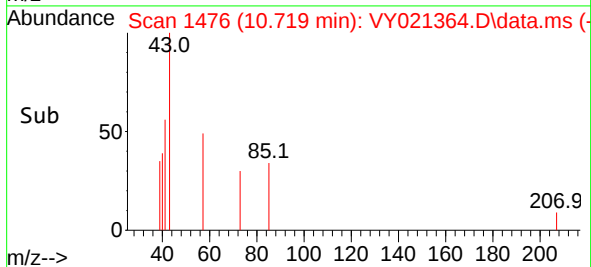
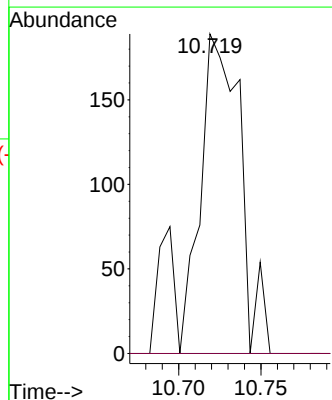
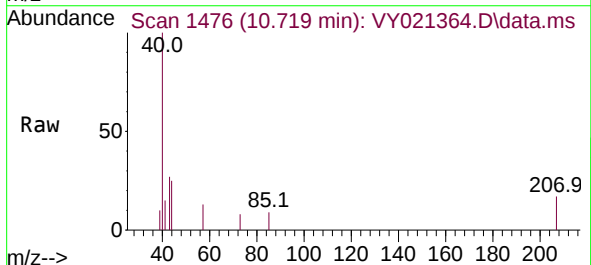
Instrument :
MSVOA_Y
ClientSampleId :

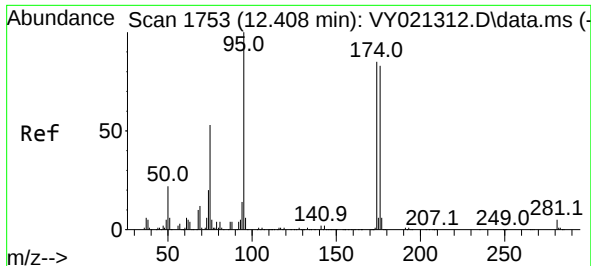
Tgt Ion: 98 Resp: 9210
Ion Ratio Lower Upper
98 100
100 63.9 52.4 78.6



#59
2-Hexanone
Concen: 11.649 ug/l
RT: 10.719 min Scan# 1476
Delta R.T. -0.042 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion: 43 Resp: 318
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#

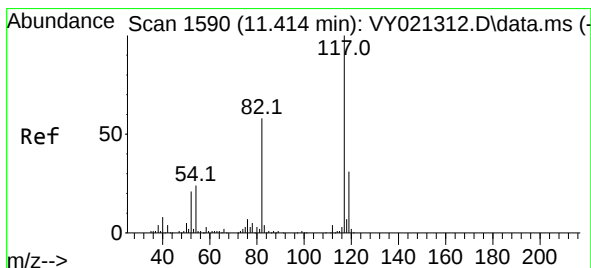
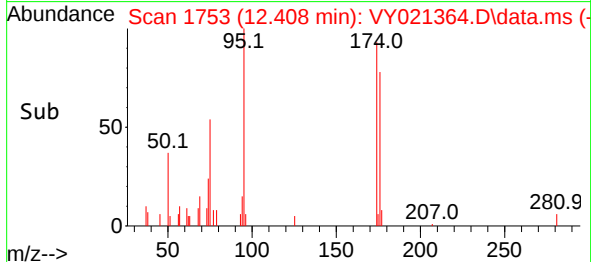
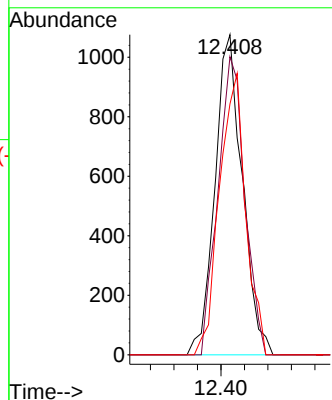
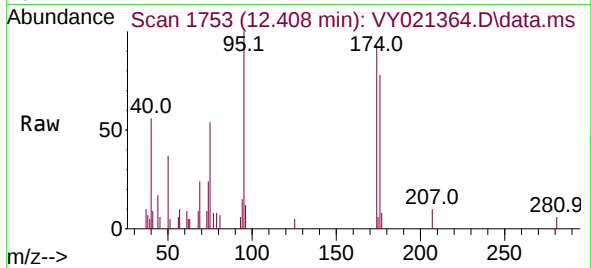




#62
4-Bromofluorobenzene
Concen: 23.841 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

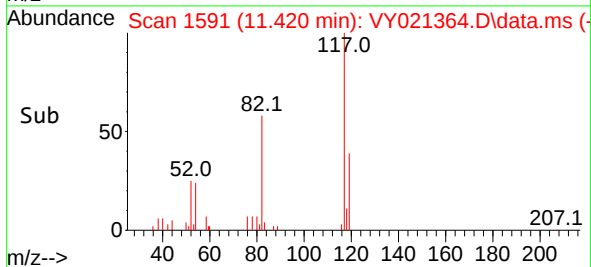
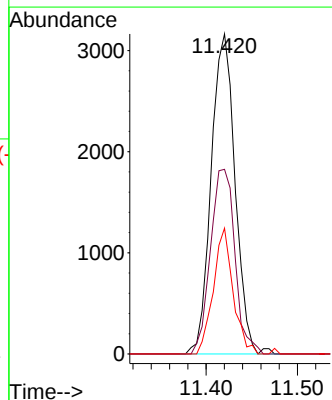
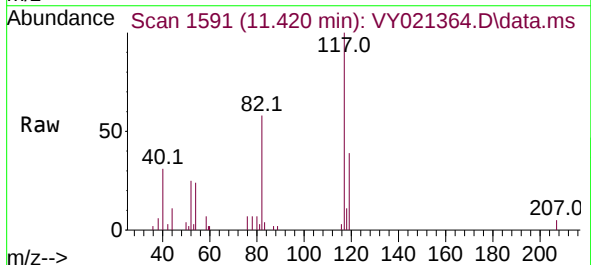
Instrument :
MSVOA_Y
ClientSampleId :

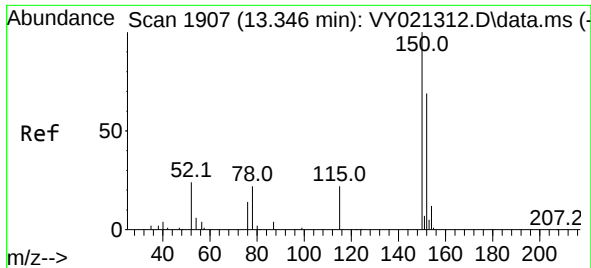
Tgt Ion:	95	Resp:	1741
Ion	Ratio	Lower	Upper
95	100		
174	90.9	0.0	168.0
176	84.0	0.0	162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion:	117	Resp:	5740
Ion	Ratio	Lower	Upper
117	100		
82	57.7	46.2	69.4
119	39.3	24.9	37.3

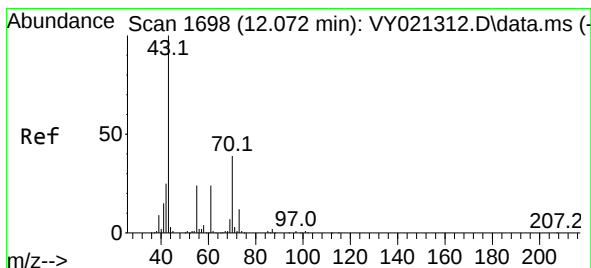
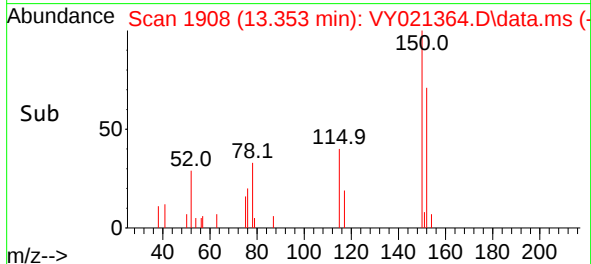
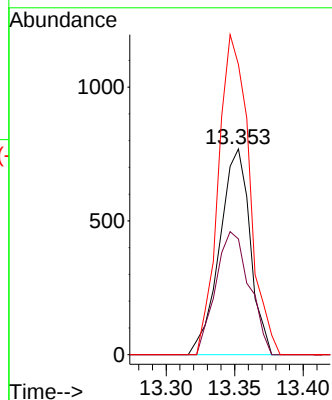
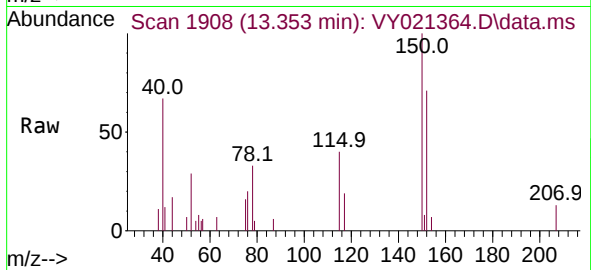




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1191
Delta R.T. 0.006 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

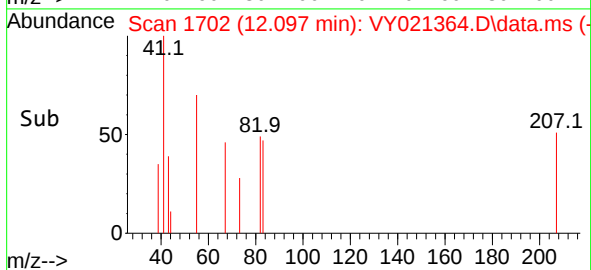
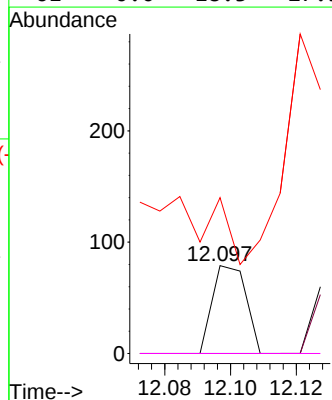
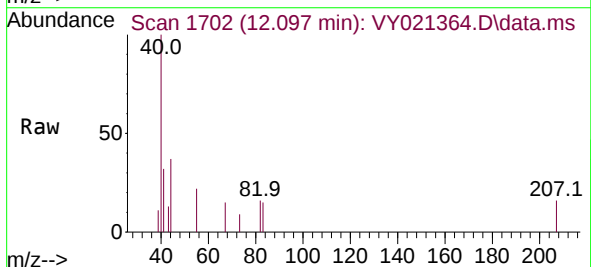
Instrument :
MSVOA_Y
ClientSampleId :

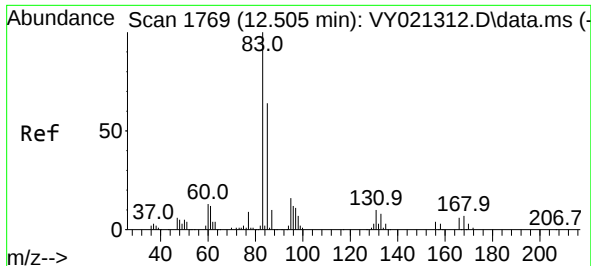
Tgt Ion:152 Resp: 1191
Ion Ratio Lower Upper
152 100
115 66.2 29.3 88.0
150 157.4 0.0 347.4



#74
N-amy1 acetate
Concen: 2.461 ug/l
RT: 12.097 min Scan# 1702
Delta R.T. 0.025 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion: 43 Resp: 56
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#

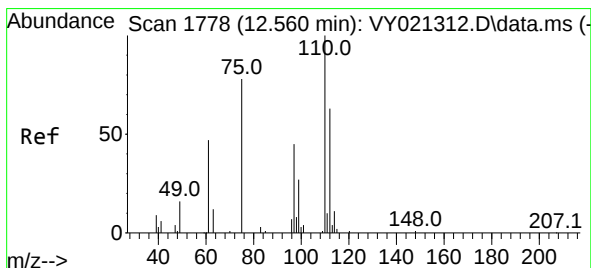
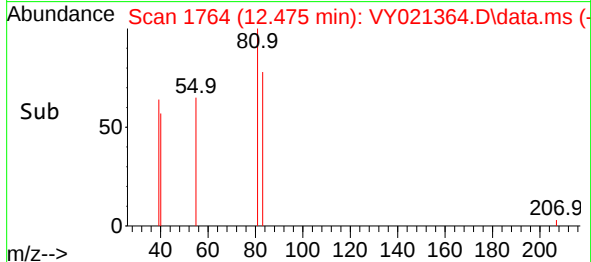
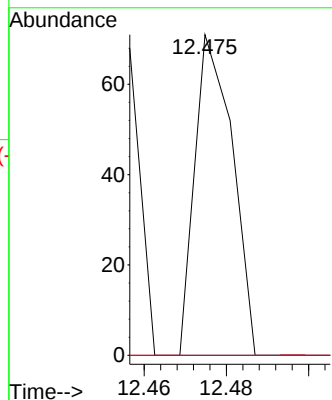
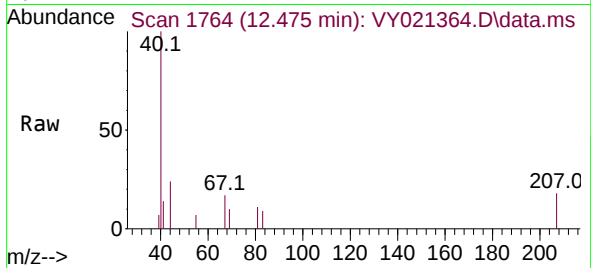




#75
 1,1,2-Tetrachloroethane
 Concen: 2.848 ug/l
 RT: 12.475 min Scan# 1752
 Delta R.T. -0.030 min
 Lab File: VY021364.D
 Acq: 27 Feb 2025 17:32

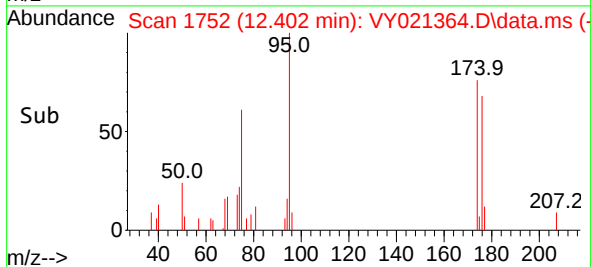
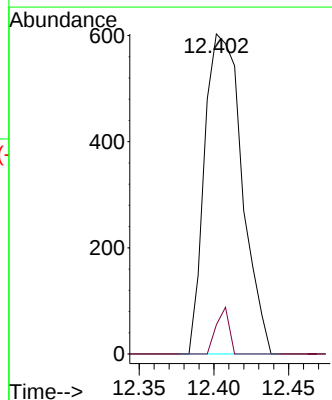
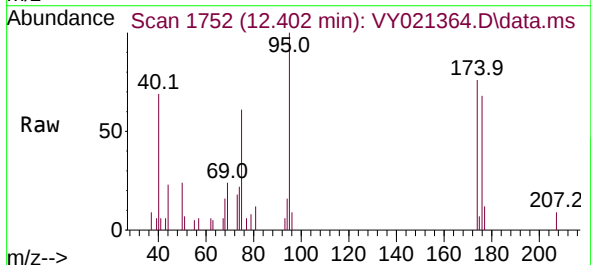
Instrument :
 MSVOA_Y
 ClientSampleId :

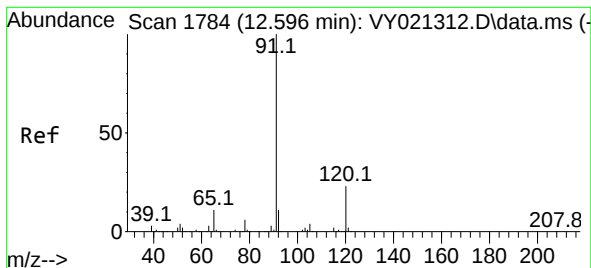
Tgt Ion: 83 Resp: 45
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.2 15.6#
 85 0.0 32.0 96.0#



#76
 1,2,3-Trichloropropane
 Concen: 87.910 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.158 min
 Lab File: VY021364.D
 Acq: 27 Feb 2025 17:32

Tgt Ion: 75 Resp: 1048
 Ion Ratio Lower Upper
 75 100
 77 5.0 0.0 0.0#





#78

n-propylbenzene

Concen: 1.114 ug/l

RT: 12.597 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

Instrument :

MSVOA_Y

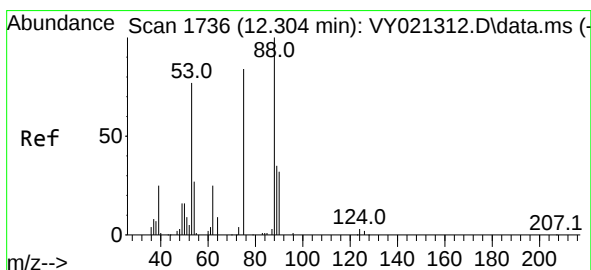
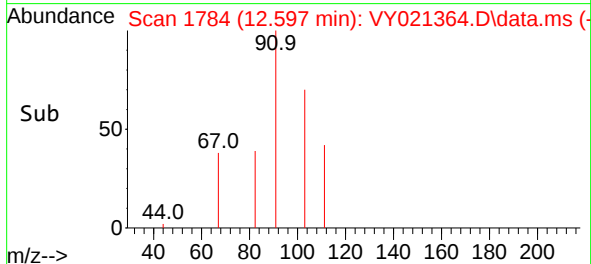
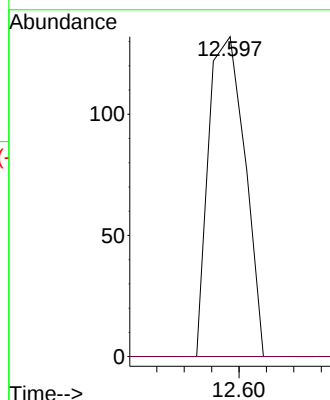
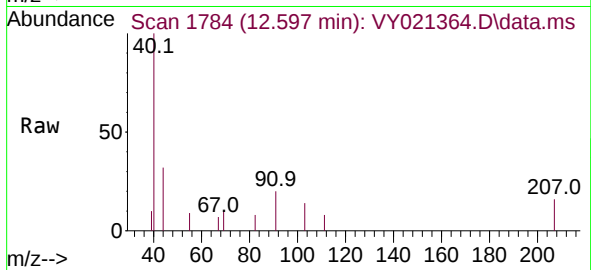
ClientSampleId :

Tgt Ion: 91 Resp: 121

Ion Ratio Lower Upper

91 100

120 0.0 11.2 33.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 195.393 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

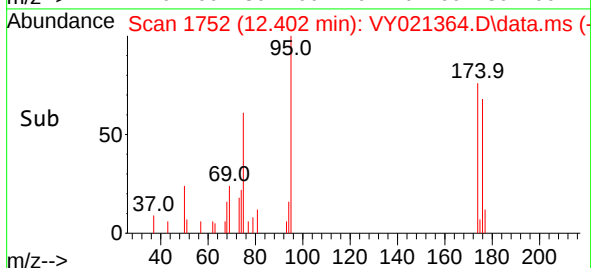
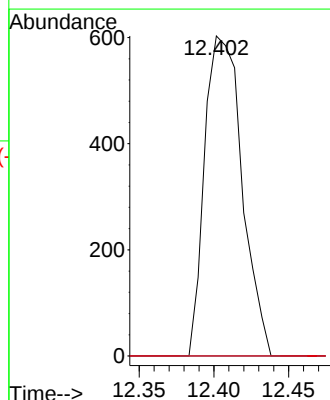
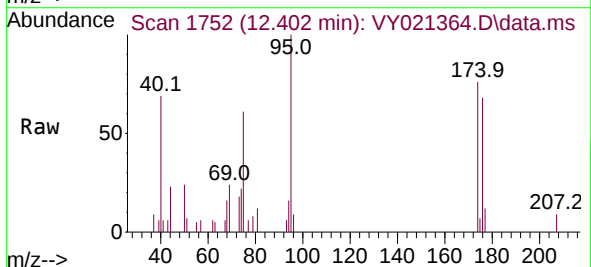
Tgt Ion: 75 Resp: 1048

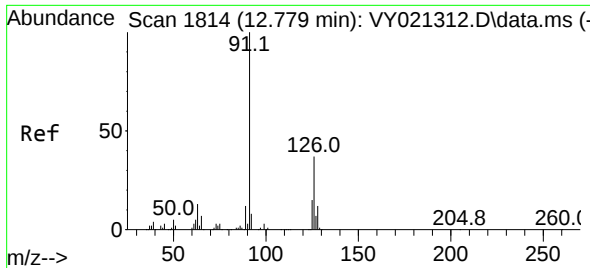
Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 35.6 53.4#

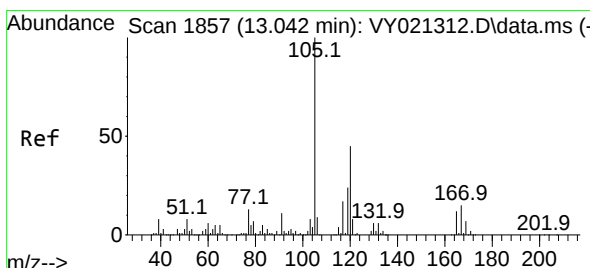
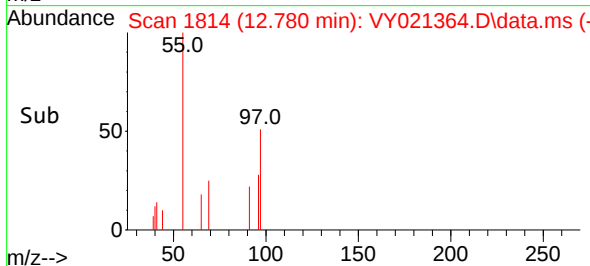
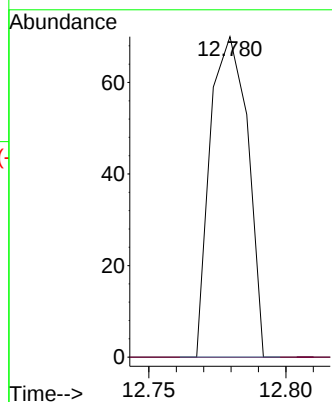
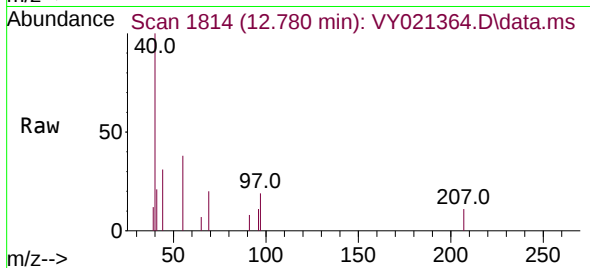




#82
4-Chlorotoluene
Concen: 1.037 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

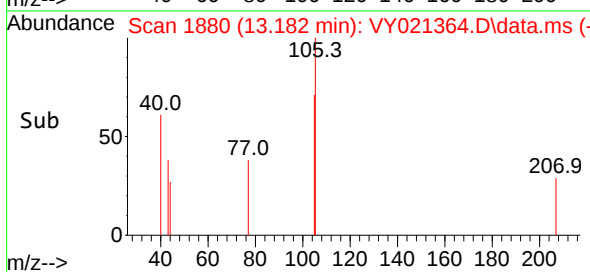
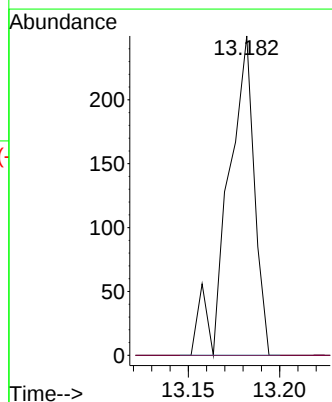
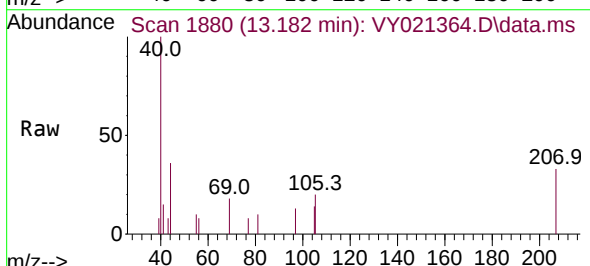
Instrument :
MSVOA_Y
ClientSampleId :

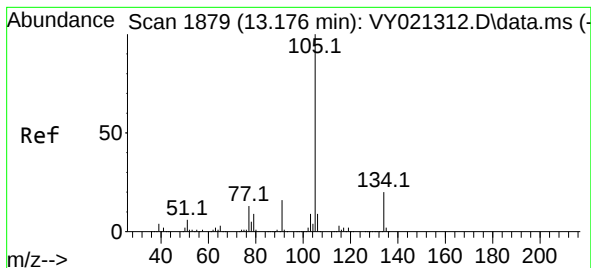
Tgt Ion: 91 Resp: 67
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#



#84
1,2,4-Trimethylbenzene
Concen: 3.437 ug/l
RT: 13.182 min Scan# 1880
Delta R.T. 0.140 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Tgt Ion: 105 Resp: 251
Ion Ratio Lower Upper
105 100
120 0.0 22.4 67.3#





#85

sec-Butylbenzene

Concen: 2.590 ug/l

RT: 13.182 min Scan# 1936

Delta R.T. 0.006 min

Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

Instrument :

MSVOA_Y

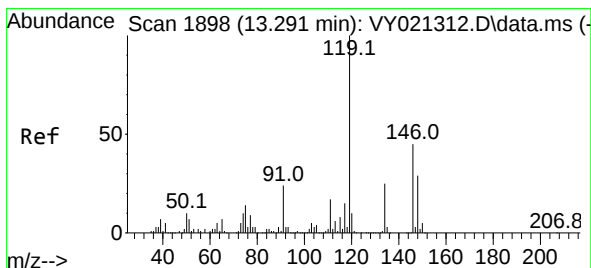
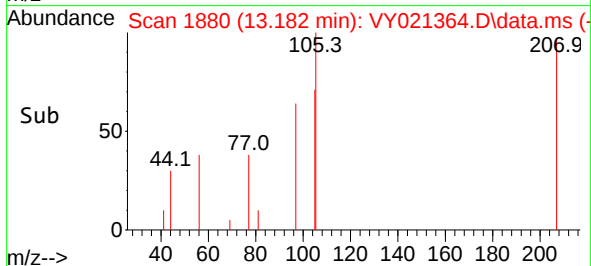
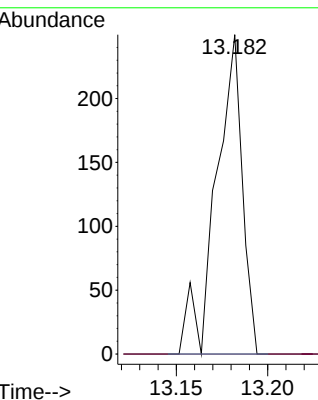
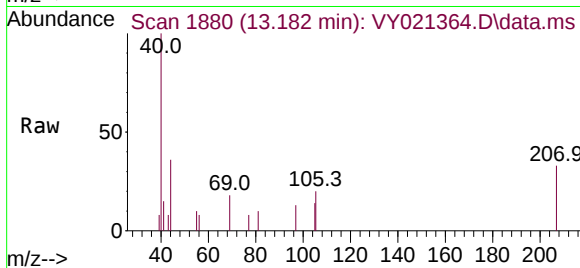
ClientSampleId :

Tgt Ion:105 Resp: 251

Ion Ratio Lower Upper

105 100

134 0.0 10.0 30.0#



#86

p-Isopropyltoluene

Concen: 1.075 ug/l

RT: 13.523 min Scan# 1936

Delta R.T. 0.232 min

Lab File: VY021364.D

Acq: 27 Feb 2025 17:32

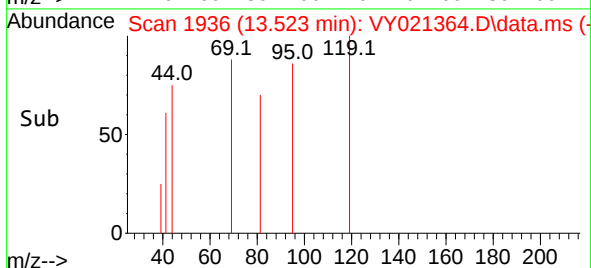
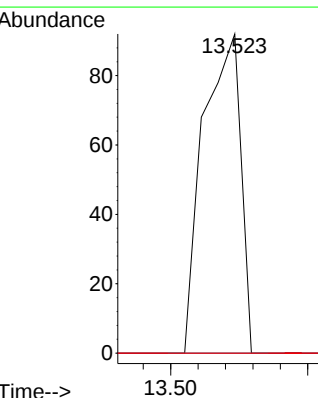
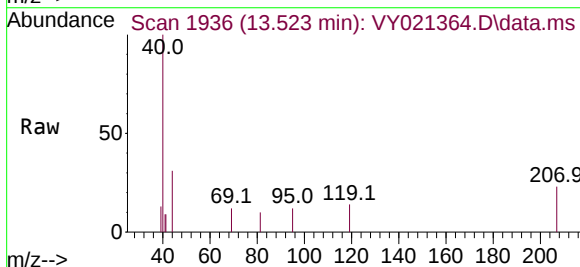
Tgt Ion:119 Resp: 87

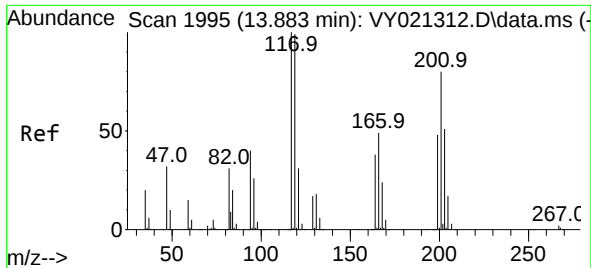
Ion Ratio Lower Upper

119 100

134 0.0 13.0 38.9#

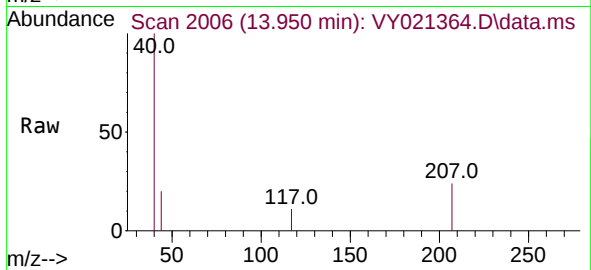
91 0.0 12.0 36.1#





#90
Hexachloroethane
Concen: 1.775 ug/l
RT: 13.950 min Scan# 20
Delta R.T. 0.067 min
Lab File: VY021364.D
Acq: 27 Feb 2025 17:32

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	38.4	115.2#

