

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020725\
 Data File : VX044863.D
 Acq On : 07 Feb 2025 13:02
 Operator : JC/MD
 Sample : Q1316-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(FEB)

Quant Time: Feb 07 22:13:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

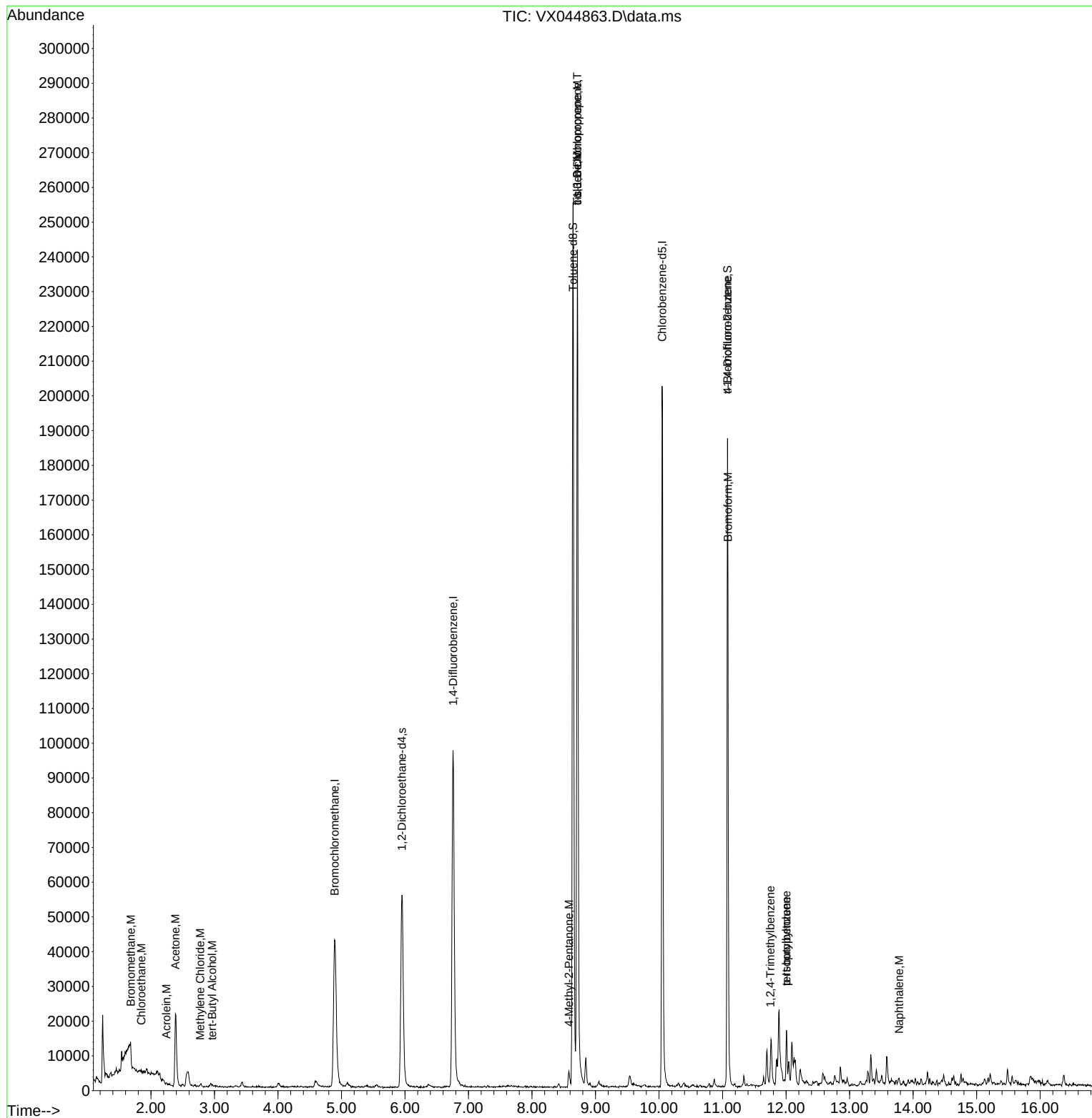
Internal Standards						
1) Bromochloromethane	4.891	128	18946	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	105183	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	95504	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	52936	28.942	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.467%		
60) 4-Bromofluorobenzene	11.079	95	50950	27.466	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.567%		
63) Toluene-d8	8.647	98	154849	29.811	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.367%		
Target Compounds						Qvalue
5) Bromomethane	1.685	94	89	0.212	ug/l #	4
6) Chloroethane	1.849	64	342	1.244	ug/l	90
13) Acrolein	2.239	56	283	1.253	ug/l	92
15) Acetone	2.386	58	7906	39.576	ug/l	93
18) Methylene Chloride	2.776	84	316	0.202	ug/l #	71
23) tert-Butyl Alcohol	2.965	59	256	0.711	ug/l #	100
48) t-1,3-Dichloropropene	8.714	75	1019	0.432	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1019	0.403	ug/l #	1
56) Bromoform	11.085	173	333	0.302	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	3365	1.672	ug/l	96
62) Toluene	8.714	91	161074	25.614	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	26392	30.990	ug/l #	13
79) tert-butylbenzene	12.006	119	6832	1.287	ug/l	68
80) 1,2,4-Trimethylbenzene	11.756	105	1347	0.258	ug/l	95
82) p-Isopropyltoluene	12.006	119	6832	1.309	ug/l	95
91) Naphthalene	13.780	128	1349	0.221	ug/l	97

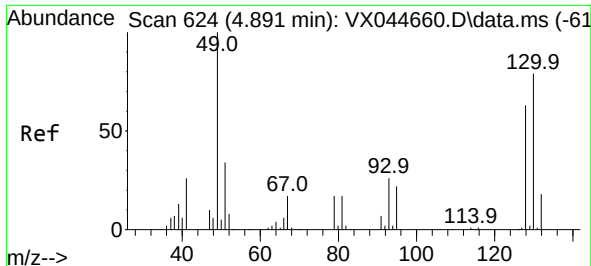
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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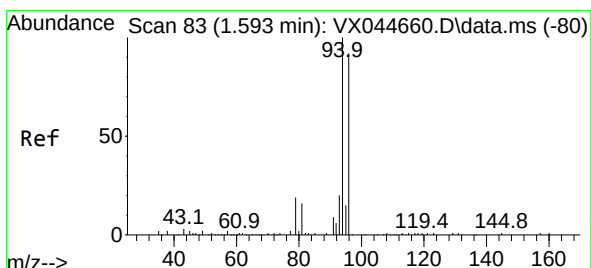
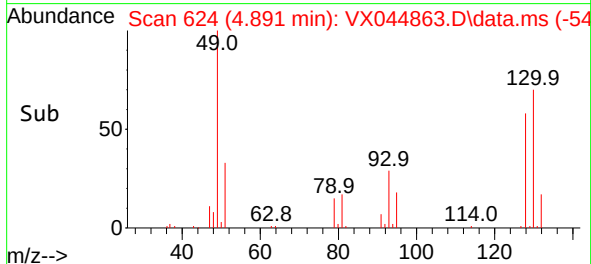
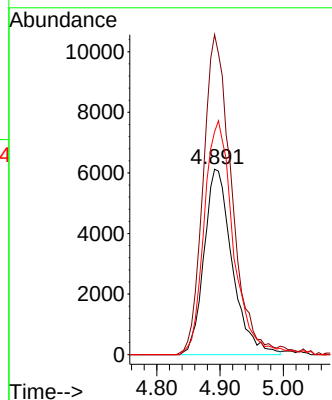
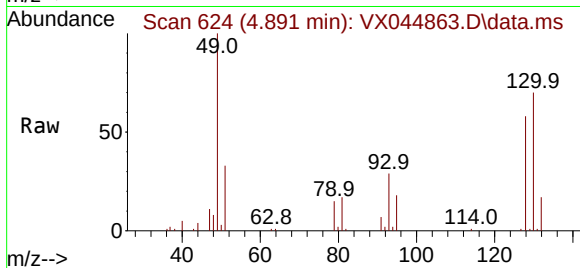




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

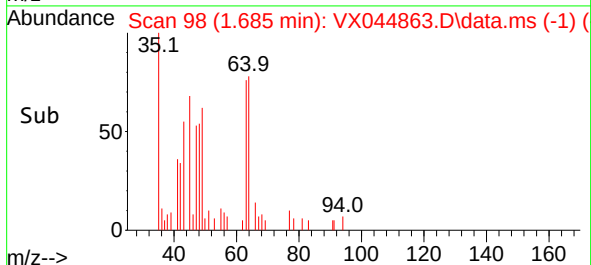
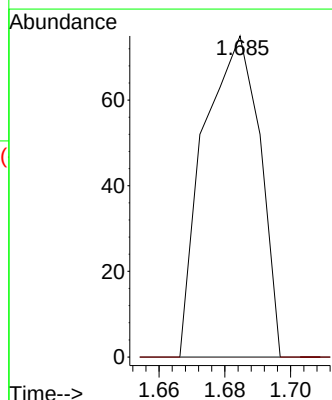
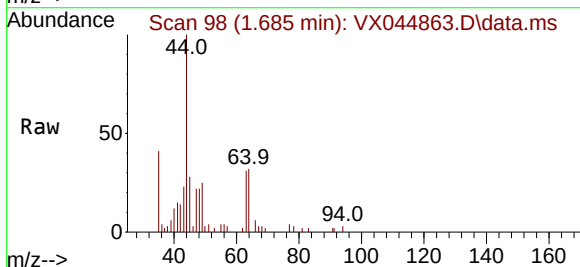
Instrument :
MSVOA_X
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002-35TH-AVE(FEB)

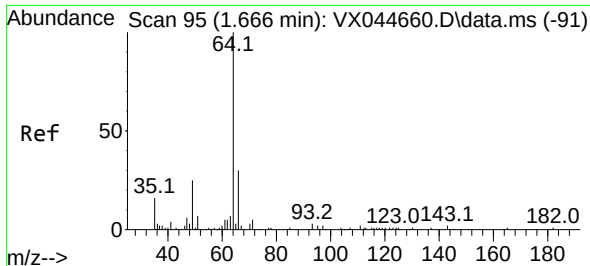
Tgt Ion:128 Resp: 18946
Ion Ratio Lower Upper
128 100
49 173.4 0.0 411.5
130 130.8 0.0 324.3



#5
Bromomethane
Concen: 0.212 ug/l
RT: 1.685 min Scan# 98
Delta R.T. 0.091 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 94 Resp: 89
Ion Ratio Lower Upper
94 100
96 0.0 73.3 109.9#

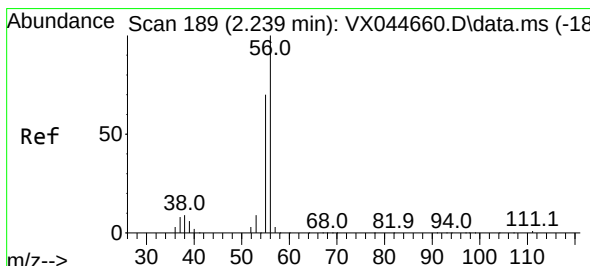
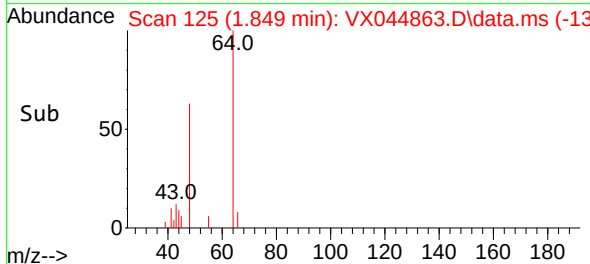
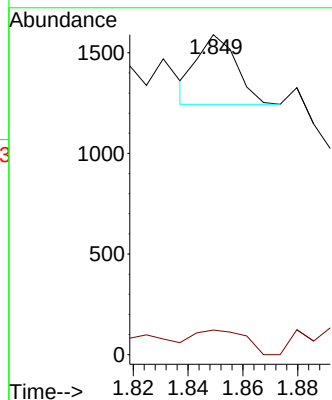
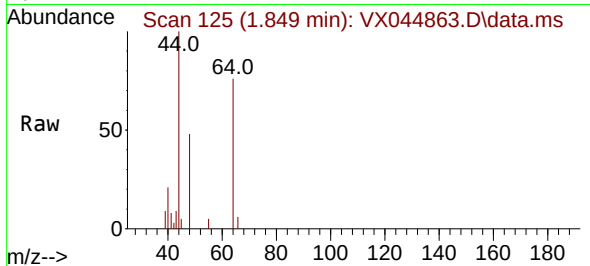




#6
Chloroethane
Concen: 1.244 ug/l
RT: 1.849 min Scan# 11
Delta R.T. 0.183 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

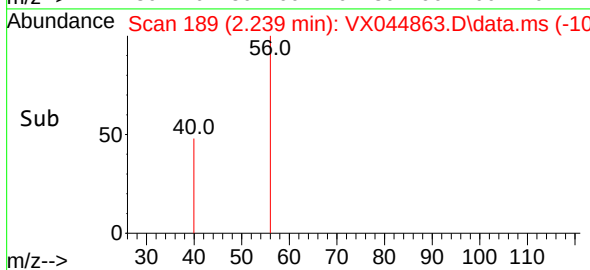
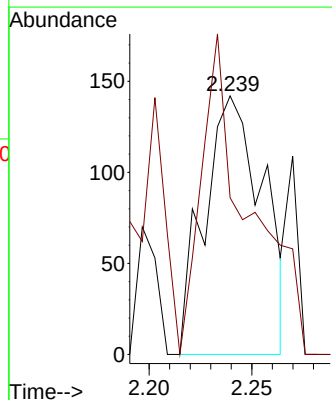
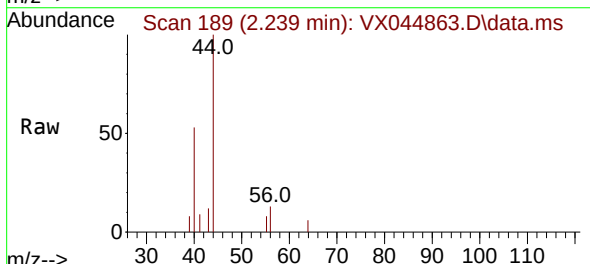
Instrument :
MSVOA_X
ClientSampleId :
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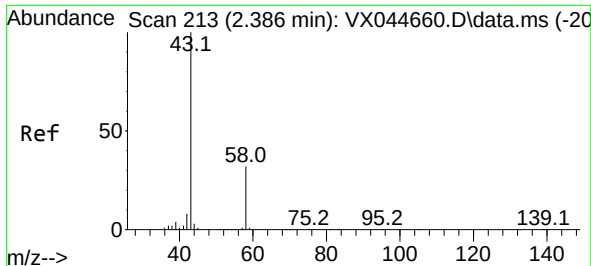
Tgt Ion: 64 Resp: 342
Ion Ratio Lower Upper
64 100
66 35.3 23.8 35.6



#13
Acrolein
Concen: 1.253 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 56 Resp: 283
Ion Ratio Lower Upper
56 100
55 65.4 57.5 86.3

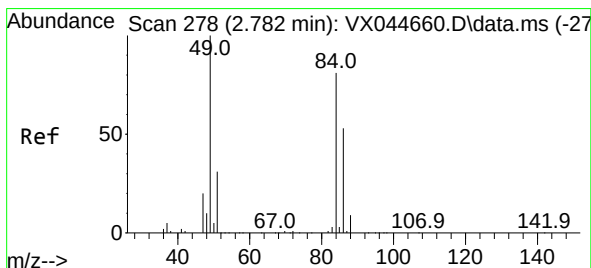
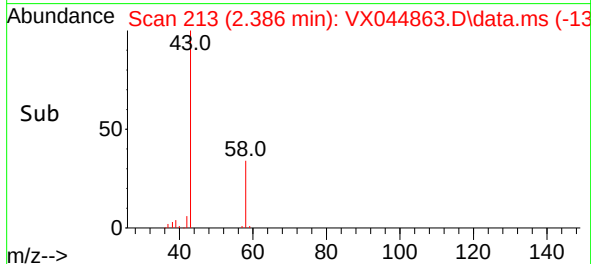
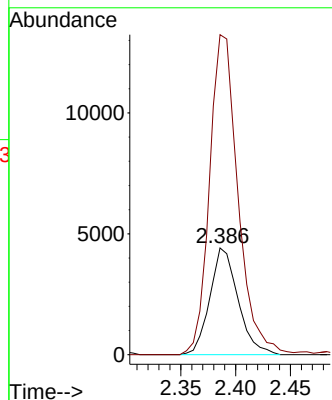
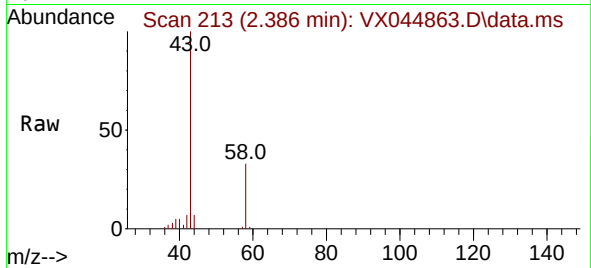




#15
Acetone
Concen: 39.576 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

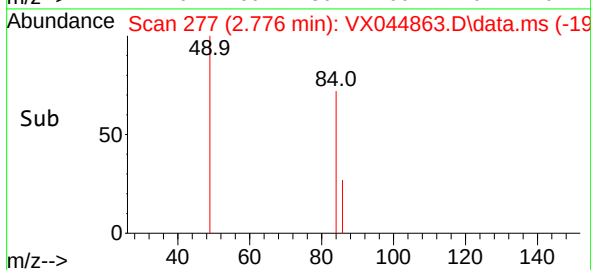
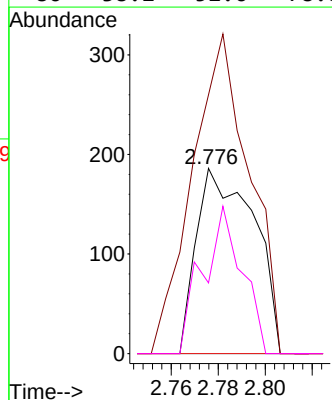
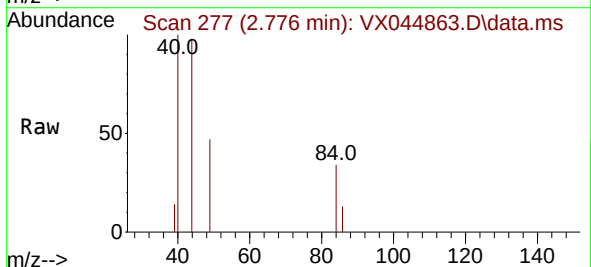
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(FEB)

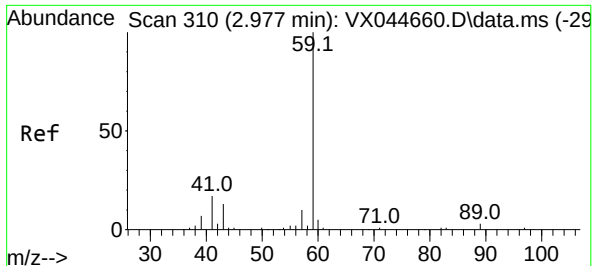
Tgt Ion: 58 Resp: 7906
Ion Ratio Lower Upper
58 100
43 299.8 251.0 376.4



#18
Methylene Chloride
Concen: 0.202 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 84 Resp: 316
Ion Ratio Lower Upper
84 100
49 139.8 98.3 147.5
51 0.0 30.6 46.0#
86 38.2 52.6 78.8#

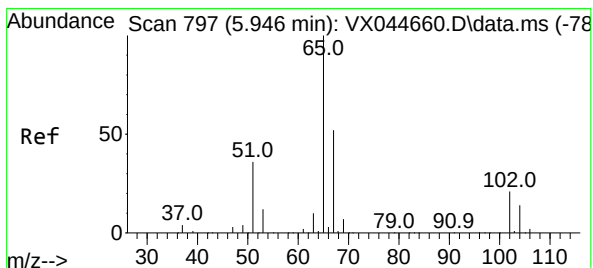
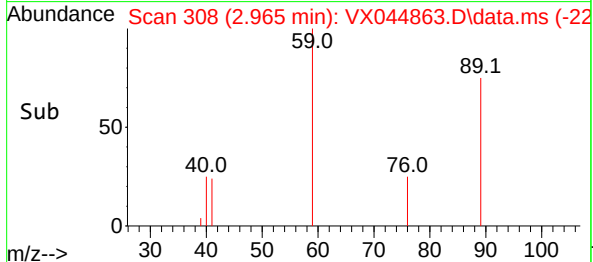
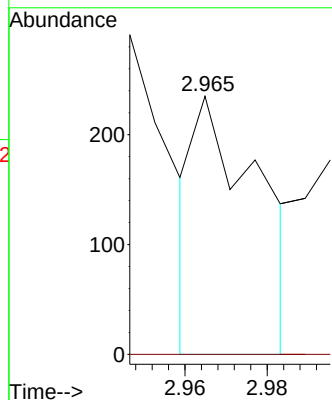
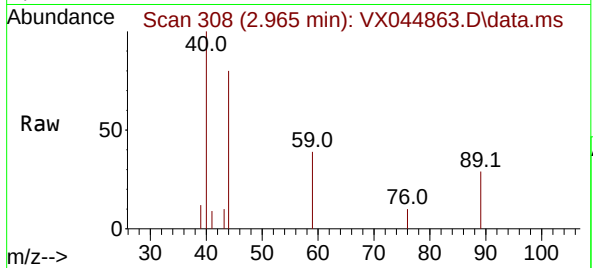




#23
tert-Butyl Alcohol
Concen: 0.711 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

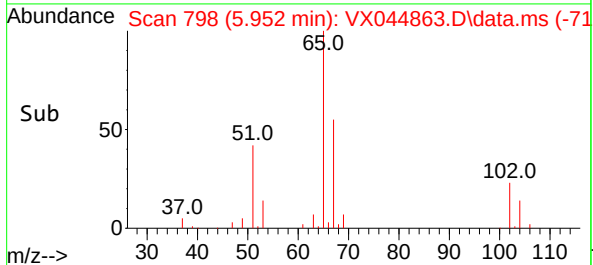
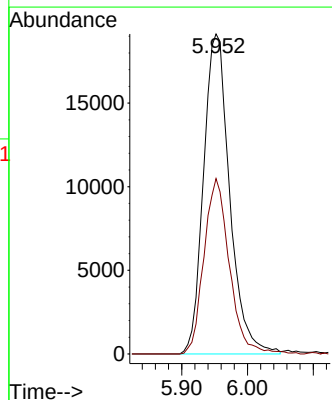
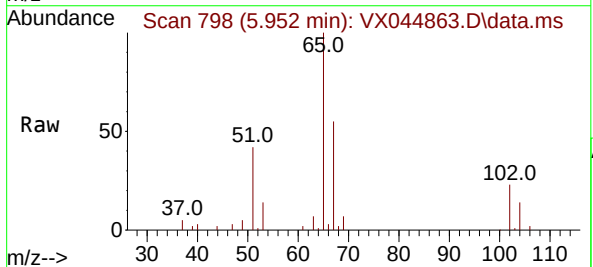
Instrument :
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ClientSampleId :
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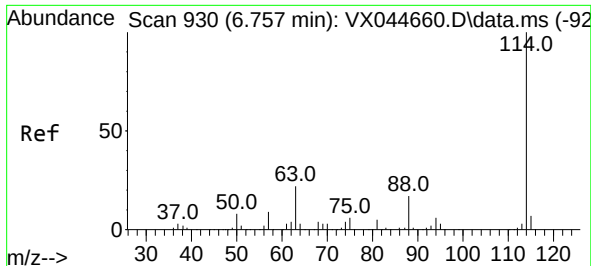
Tgt Ion: 59 Resp: 256
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 28.942 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 65 Resp: 52936
Ion Ratio Lower Upper
65 100
67 53.3 41.4 62.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044863.D

Acq: 07 Feb 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(FEB)

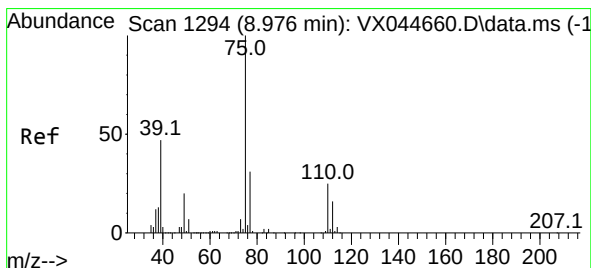
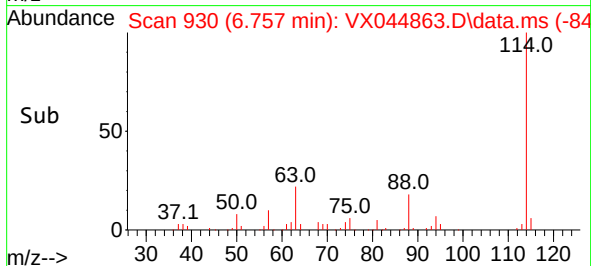
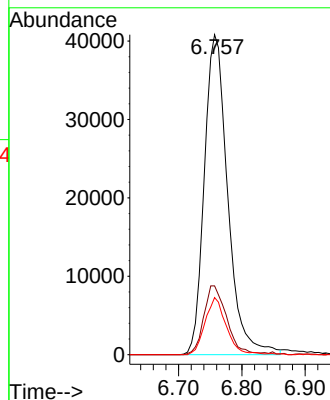
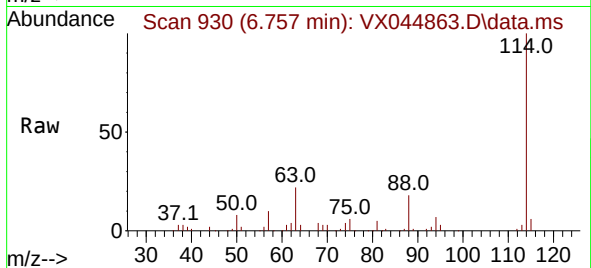
Tgt Ion:114 Resp: 105183

Ion Ratio Lower Upper

114 100

63 21.0 16.6 24.8

88 15.8 13.4 20.2



#48

t-1,3-Dichloropropene

Concen: 0.432 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.262 min

Lab File: VX044863.D

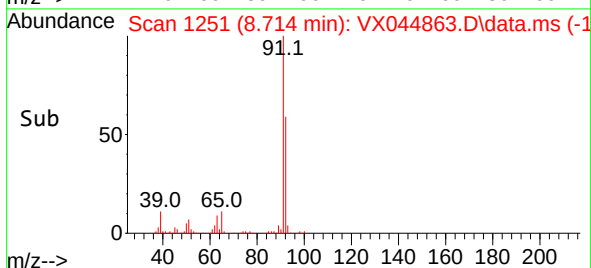
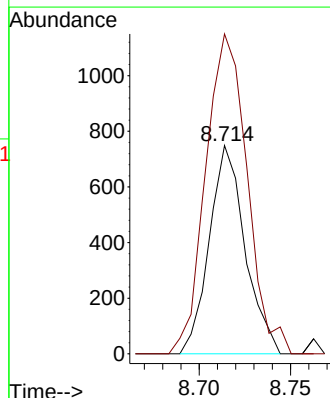
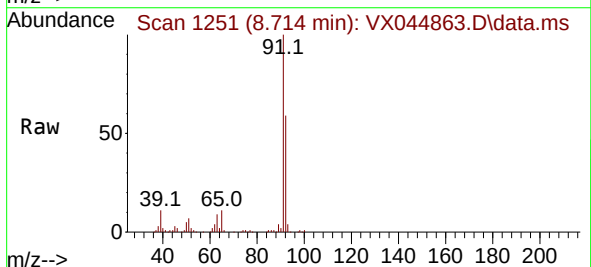
Acq: 07 Feb 2025 13:02

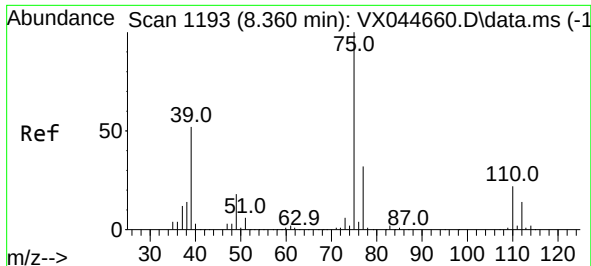
Tgt Ion: 75 Resp: 1019

Ion Ratio Lower Upper

75 100

77 146.1 24.8 37.2#





#49

cis-1,3-Dichloropropene

Concen: 0.403 ug/l

RT: 8.714 min Scan# 1

Delta R.T. 0.354 min

Lab File: VX044863.D

Acq: 07 Feb 2025 13:02

Instrument :

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ClientSampleId :

002-35TH-AVE(FEB)

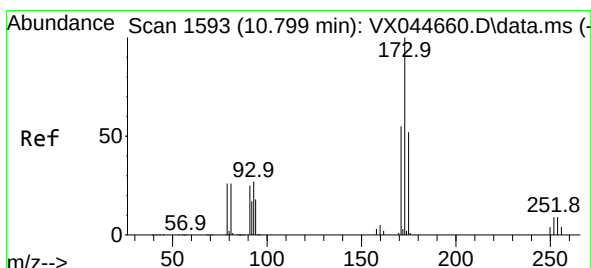
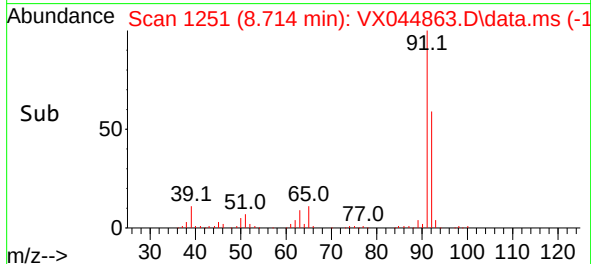
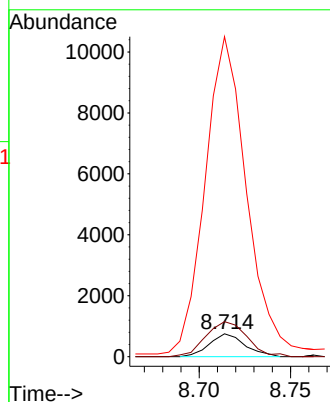
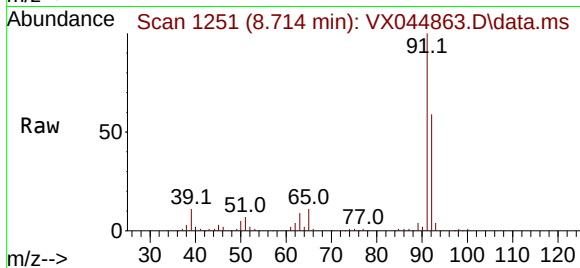
Tgt Ion: 75 Resp: 1019

Ion Ratio Lower Upper

75 100

77 146.1 25.4 38.0#

39 1334.2 41.4 62.0#



#56

Bromoform

Concen: 0.302 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.287 min

Lab File: VX044863.D

Acq: 07 Feb 2025 13:02

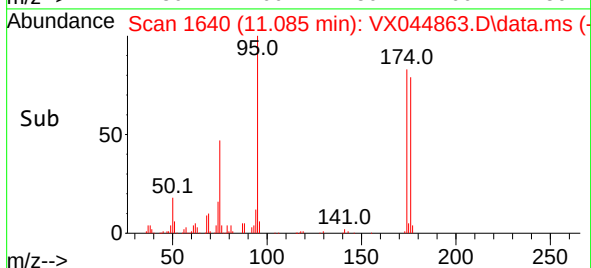
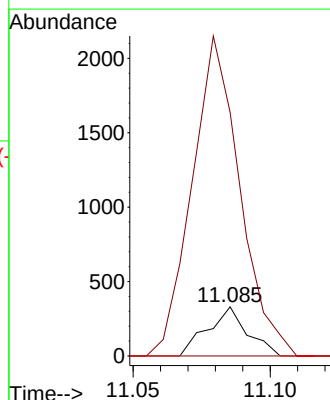
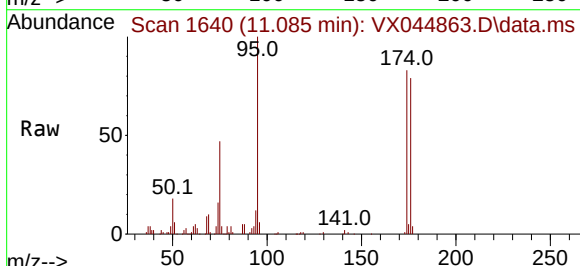
Tgt Ion: 173 Resp: 333

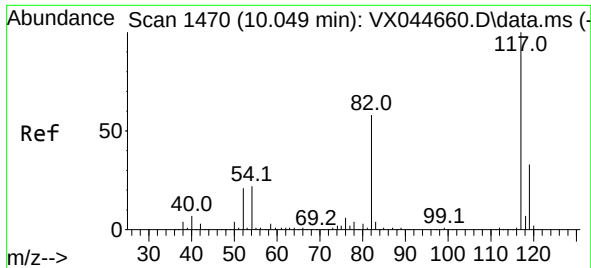
Ion Ratio Lower Upper

173 100

175 781.7 39.0 58.6#

254 0.0 6.5 9.7#

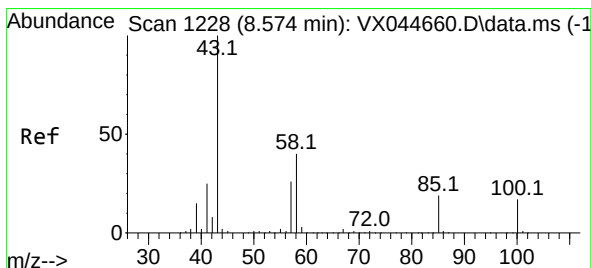
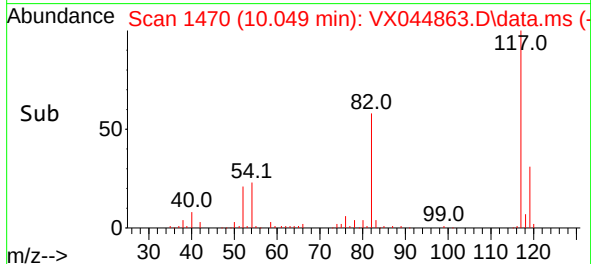
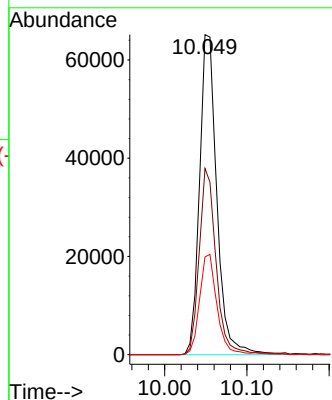
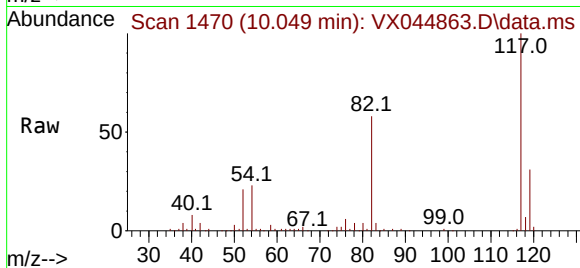




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

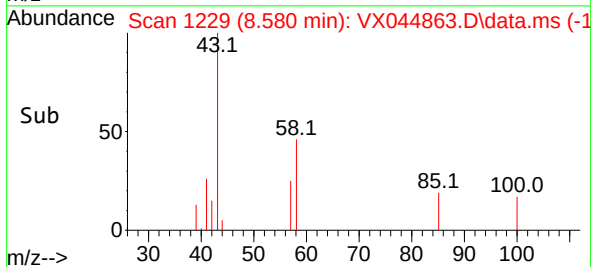
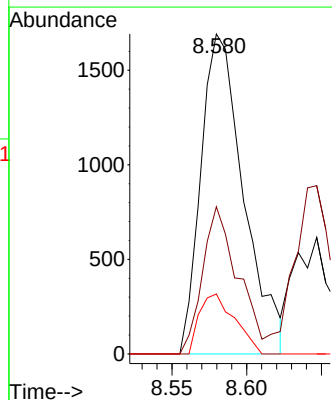
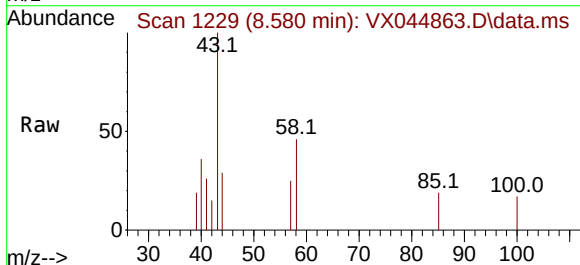
Instrument :
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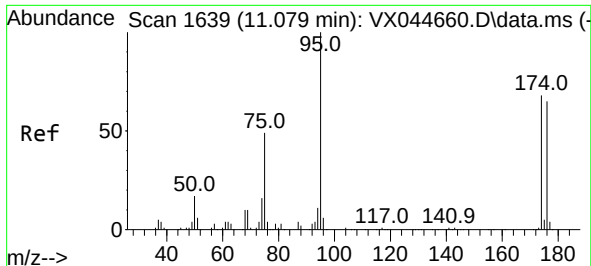
Tgt Ion:117 Resp: 95504
Ion Ratio Lower Upper
117 100
82 56.6 45.8 68.6
119 31.2 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.672 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 43 Resp: 3365
Ion Ratio Lower Upper
43 100
58 38.1 31.7 47.5
85 15.5 15.0 22.6

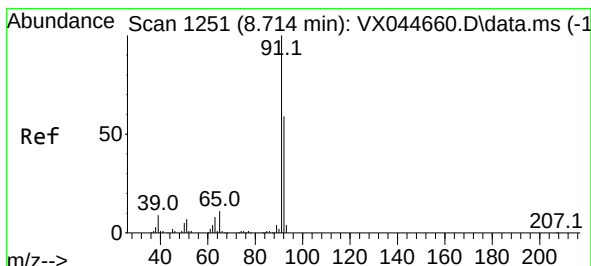
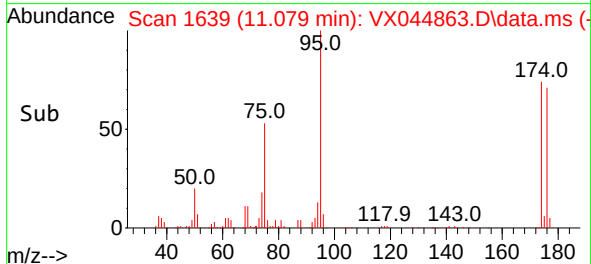
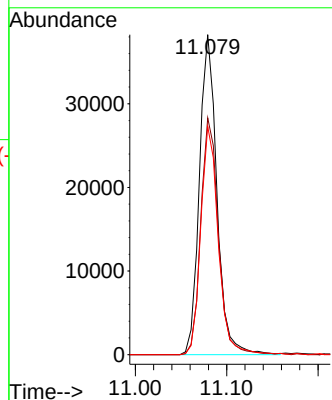
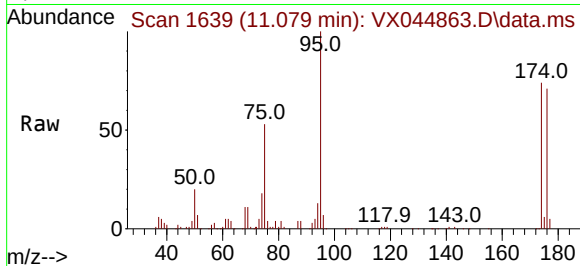




#60
4-Bromofluorobenzene
Concen: 27.466 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

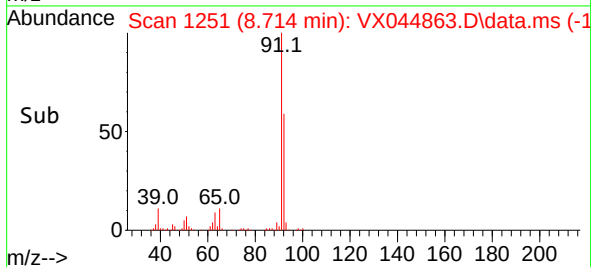
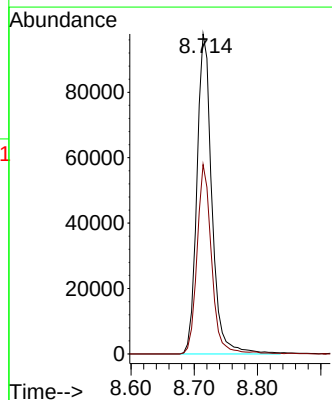
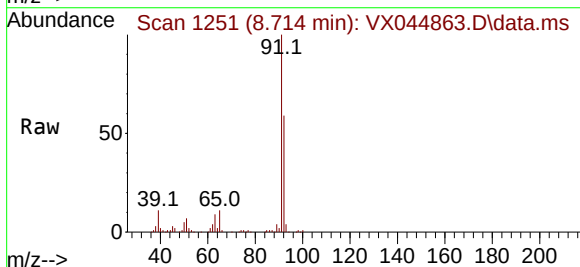
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(FEB)

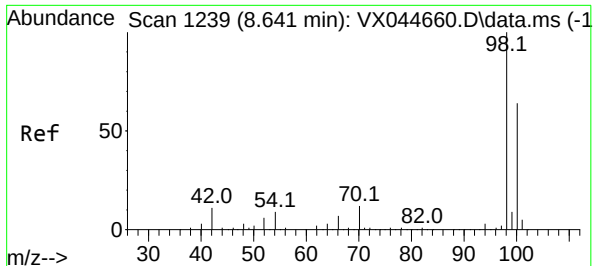
Tgt Ion: 95 Resp: 50950
Ion Ratio Lower Upper
95 100
174 74.5 54.6 81.8
176 71.5 52.8 79.2



#62
Toluene
Concen: 25.614 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 91 Resp: 161074
Ion Ratio Lower Upper
91 100
92 57.1 47.3 70.9

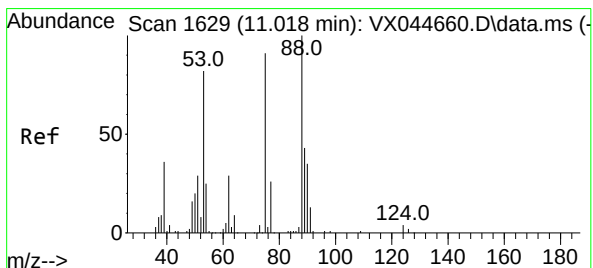
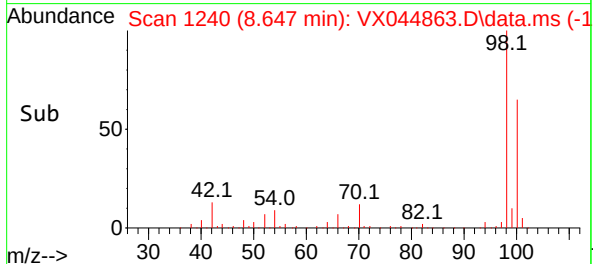
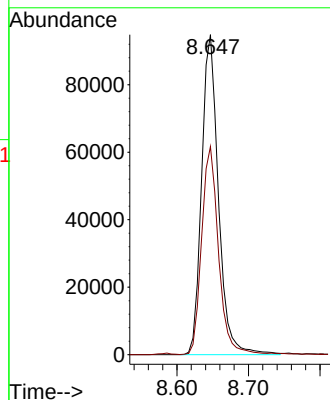
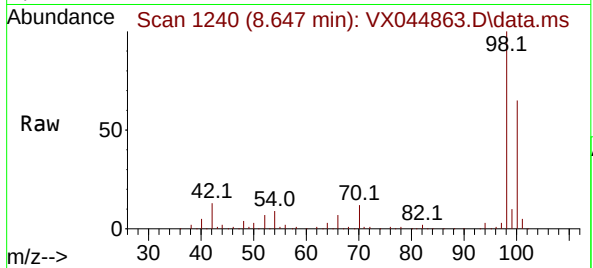




#63
Toluene-d8
Concen: 29.811 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

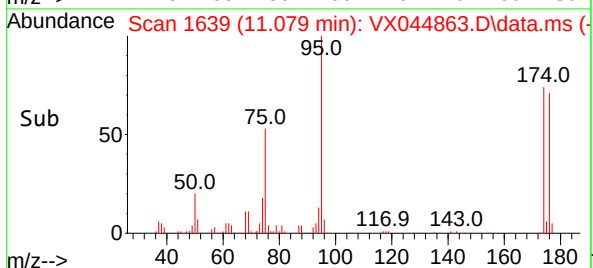
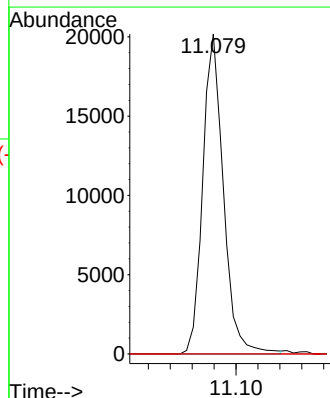
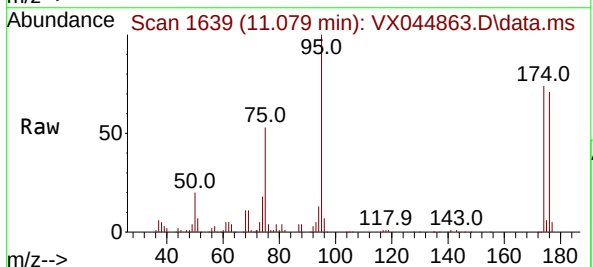
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(FEB)

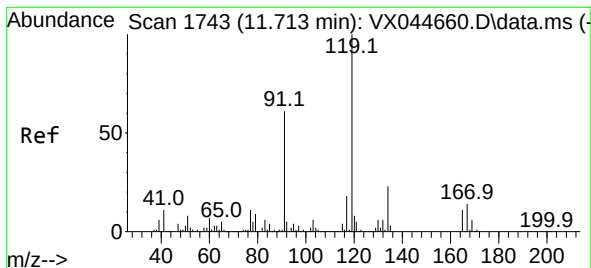
Tgt Ion: 98 Resp: 154849
Ion Ratio Lower Upper
98 100
100 64.6 53.6 80.4



#77
t-1,4-Dichloro-2-butene
Concen: 30.990 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044863.D
Acq: 07 Feb 2025 13:02

Tgt Ion: 75 Resp: 26392
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 23.8 71.2#





#79

tert-butylbenzene

Concen: 1.287 ug/l

RT: 12.006 min Scan# 11

Delta R.T. 0.293 min

Lab File: VX044863.D

Acq: 07 Feb 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(FEB)

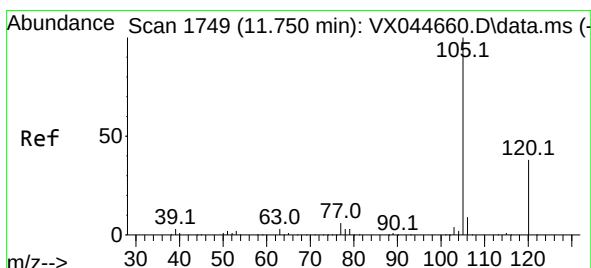
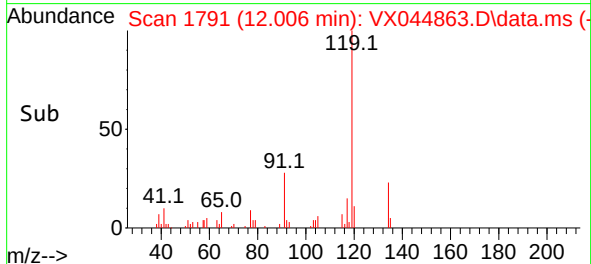
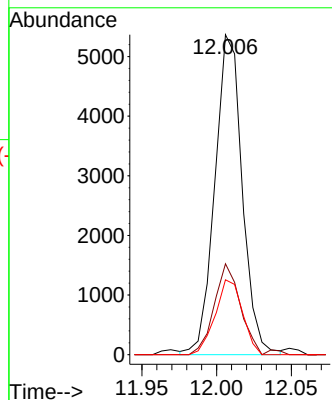
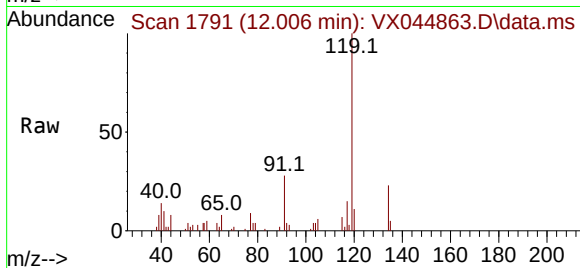
Tgt Ion:119 Resp: 6832

Ion Ratio Lower Upper

119 100

91 27.0 0.0 119.0

134 23.3 0.0 44.8



#80

1,2,4-Trimethylbenzene

Concen: 0.258 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX044863.D

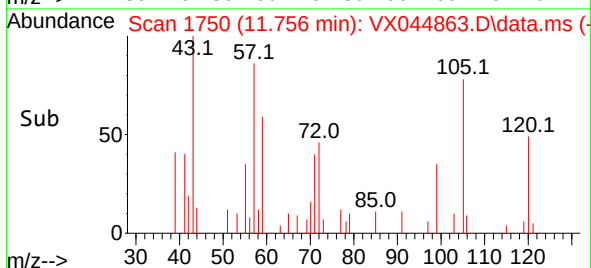
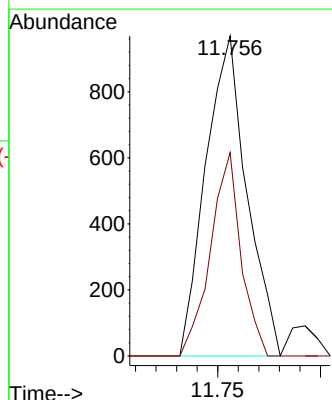
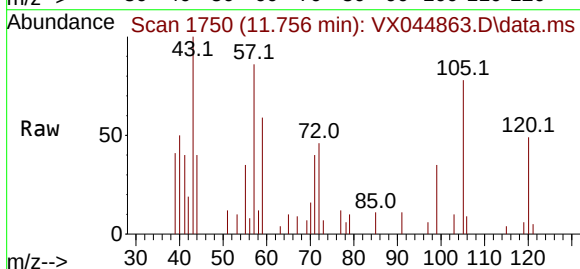
Acq: 07 Feb 2025 13:02

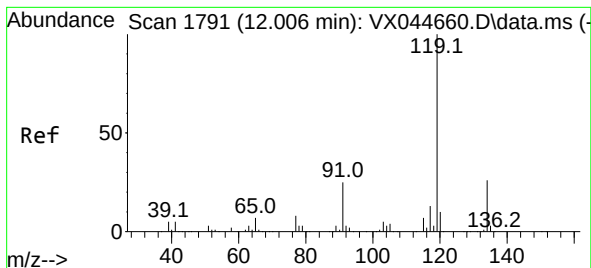
Tgt Ion:105 Resp: 1347

Ion Ratio Lower Upper

105 100

120 47.1 0.0 88.4





#82

p-Isopropyltoluene

Concen: 1.309 ug/l

RT: 12.006 min Scan# 119

Delta R.T. 0.000 min

Lab File: VX044863.D

Acq: 07 Feb 2025 13:02

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(FEB)

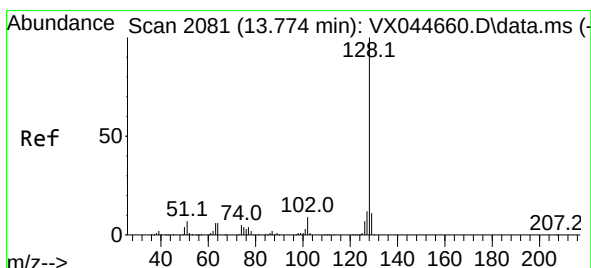
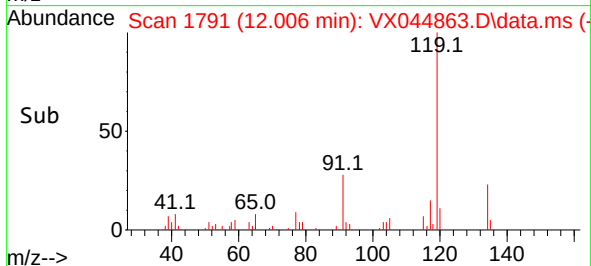
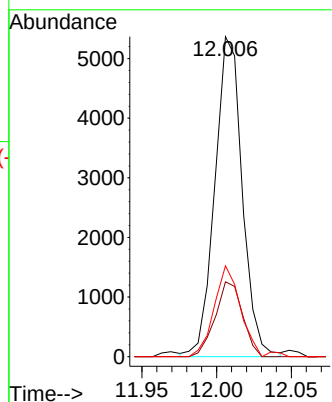
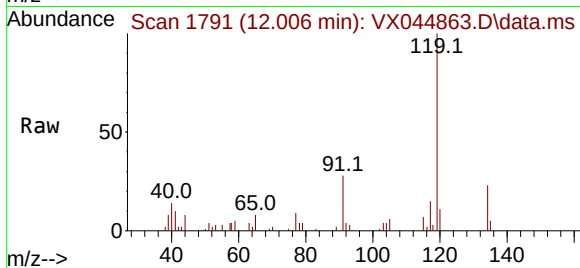
Tgt Ion:119 Resp: 6832

Ion Ratio Lower Upper

119 100

134 23.3 0.0 52.2

91 27.0 0.0 50.2



#91

Naphthalene

Concen: 0.221 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX044863.D

Acq: 07 Feb 2025 13:02

Tgt Ion:128 Resp: 1349

Ion Ratio Lower Upper

128 100

127 14.6 10.2 15.4

129 12.2 9.0 13.6

