

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041725\
 Data File : VN086322.D
 Acq On : 17 Apr 2025 15:18
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 18 01:32:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

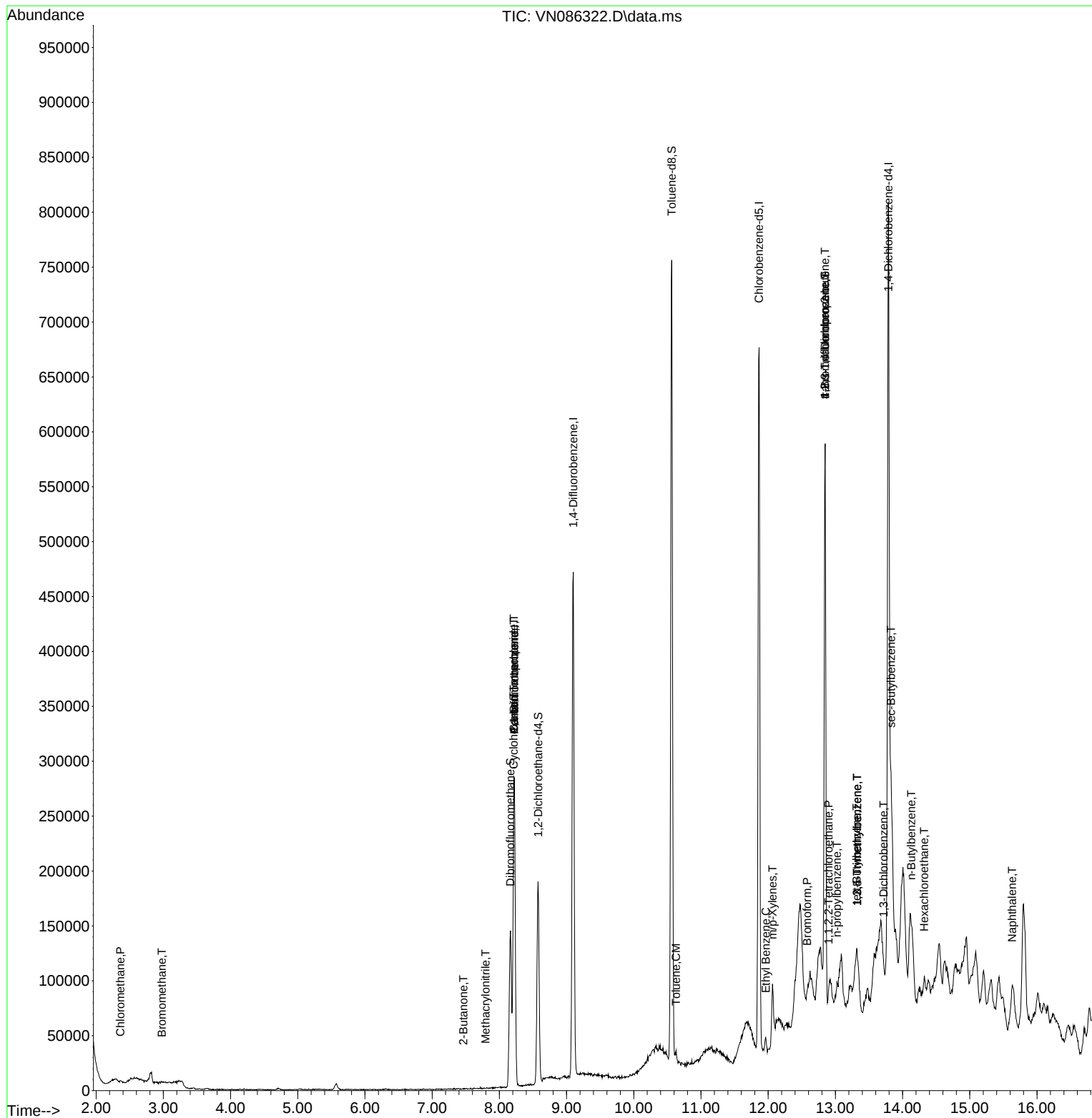
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	210704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	409904	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	384613	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	172899	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	150222	49.166	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.340%
35) Dibromofluoromethane	8.165	113	106546	56.006	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	112.020%
50) Toluene-d8	10.565	98	518940	51.039	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.080%
62) 4-Bromofluorobenzene	12.847	95	195648	52.757	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.520%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1455	0.401	ug/l	89
5) Bromomethane	2.977	94	814	0.522	ug/l #	71
13) Acrolein	4.183	56	130	Below Cal	#	1
16) Acetone	4.424	43	810	Below Cal	#	43
25) 2-Butanone	7.465	43	458	0.241	ug/l #	48
31) Cyclohexane	8.212	56	5474	1.106	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17739	4.668	ug/l #	49
38) Carbon Tetrachloride	8.218	117	22950	6.342	ug/l #	15
41) Methacrylonitrile	7.794	41	499	0.215	ug/l #	34
43) Isopropyl Acetate	8.671	43	4218	Below Cal	#	55
52) Toluene	10.629	92	4528	0.596	ug/l	91
67) Ethyl Benzene	11.965	91	10706	0.691	ug/l	99
68) m/p-Xylenes	12.065	106	17884	3.082	ug/l	88
71) Bromoform	12.582	173	718	0.337	ug/l #	82
75) 1,1,2,2-Tetrachloroethane	12.900	83	1889	0.465	ug/l #	16
76) 1,2,3-Trichloropropane	12.847	75	96763	23.716	ug/l #	1
78) n-propylbenzene	13.023	91	3464	0.208	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.323	105	18339	1.584	ug/l	69
81) trans-1,4-Dichloro-2-b...	12.847	75	96763	56.956	ug/l #	10
83) tert-Butylbenzene	13.317	119	15802	1.575	ug/l	80
84) 1,2,4-Trimethylbenzene	13.323	105	18339	1.556	ug/l	74
85) sec-Butylbenzene	13.829	105	10037	0.721	ug/l	81
87) 1,3-Dichlorobenzene	13.717	146	3564	0.605	ug/l #	31
89) n-Butylbenzene	14.129	91	7068	0.695	ug/l #	33
90) Hexachloroethane	14.323	117	1408	0.730	ug/l #	19
95) Naphthalene	15.629	128	7186	0.741	ug/l #	8

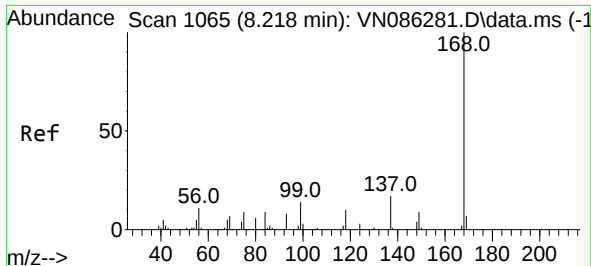
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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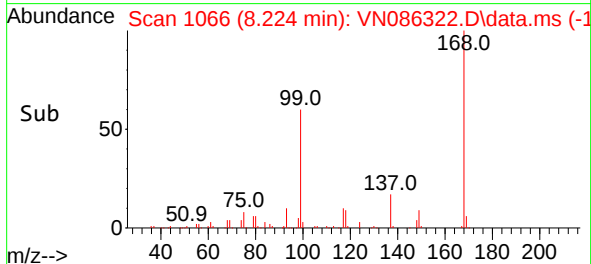
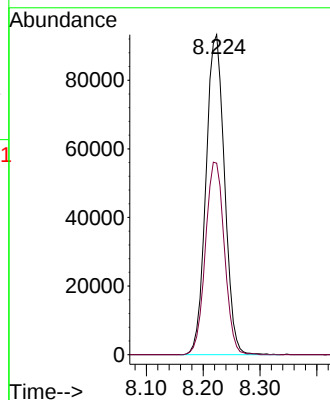
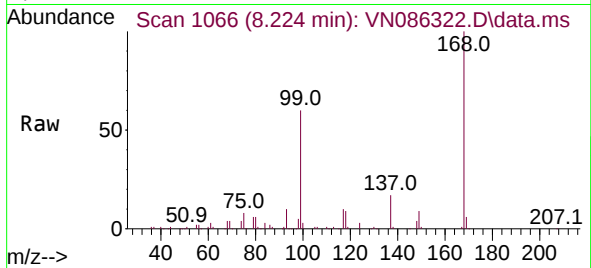




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

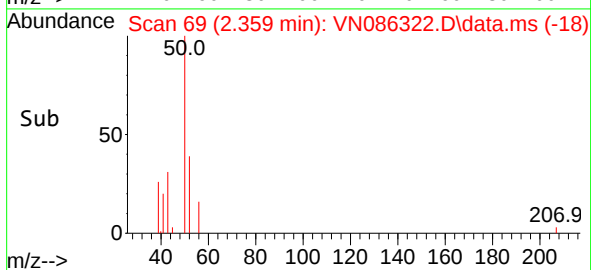
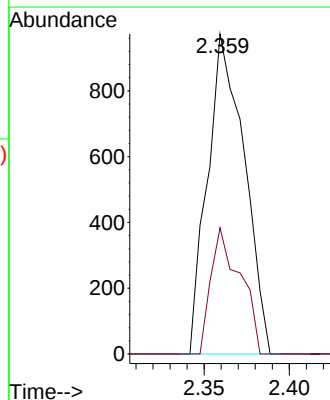
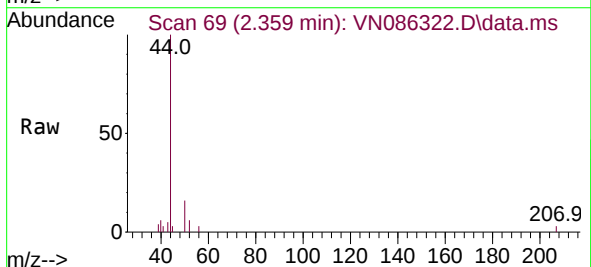
Instrument :
MSVOA_N
ClientSampleId :

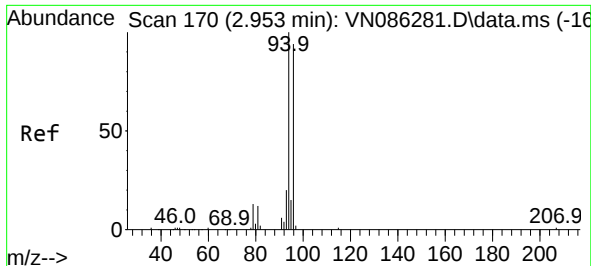
Tgt Ion:168 Resp: 210704
Ion Ratio Lower Upper
168 100
99 59.9 52.5 78.7



#3
Chloromethane
Concen: 0.401 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion: 50 Resp: 1455
Ion Ratio Lower Upper
50 100
52 39.5 26.5 39.7

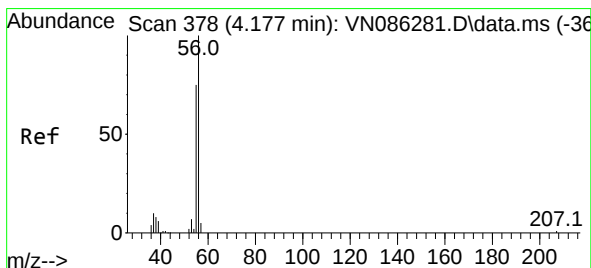
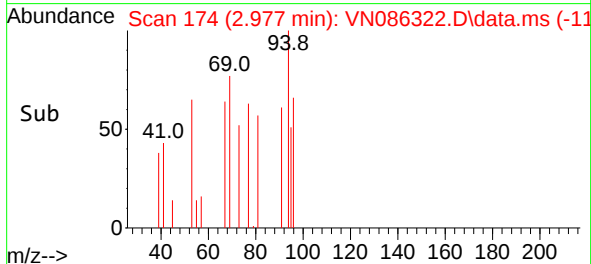
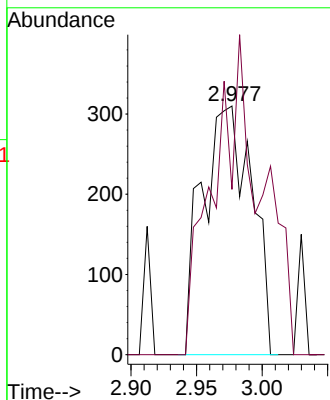
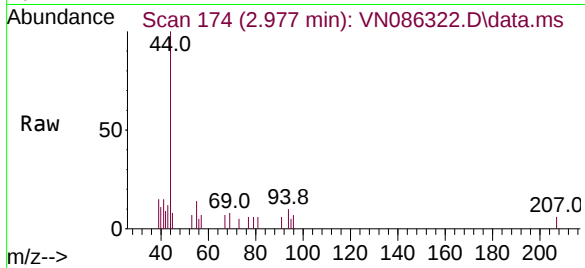




#5
Bromomethane
Concen: 0.522 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

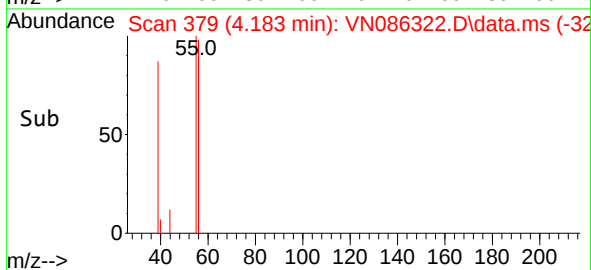
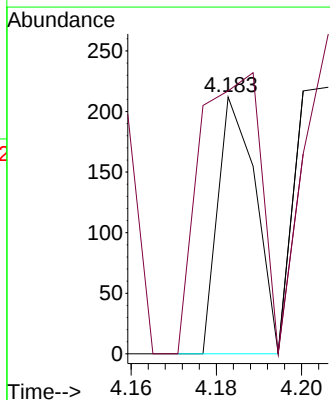
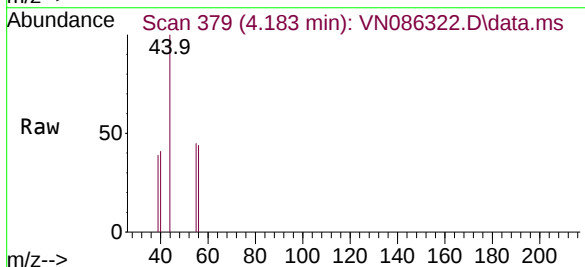
Instrument :
MSVOA_N
ClientSampleId :

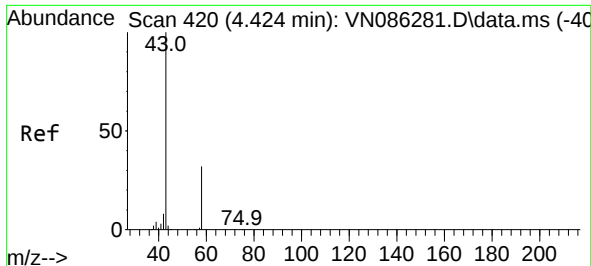
Tgt Ion: 94 Resp: 814
Ion Ratio Lower Upper
94 100
96 66.5 75.2 112.8#



#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

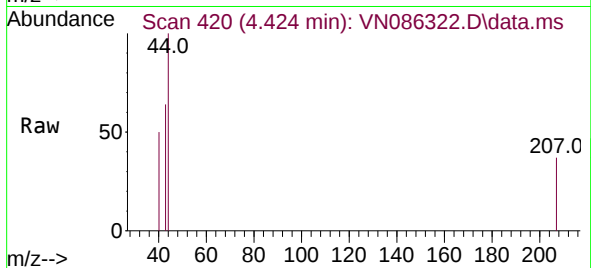
Tgt Ion: 56 Resp: 130
Ion Ratio Lower Upper
56 100
55 177.7 58.5 87.7#



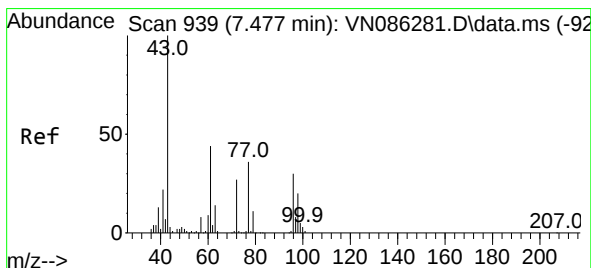
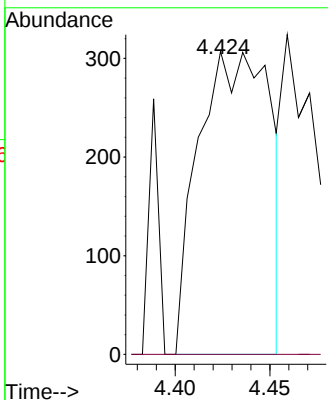
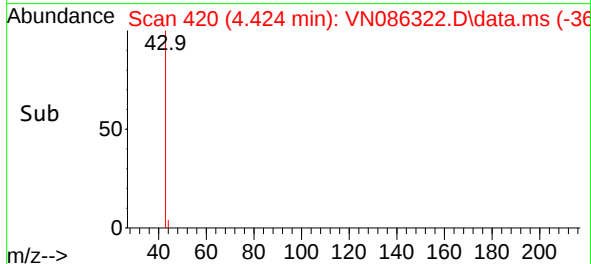


#16
Acetone
Concen: Below Cal
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

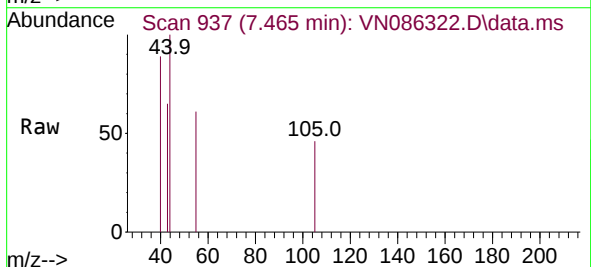
Instrument :
MSVOA_N
ClientSampleId :



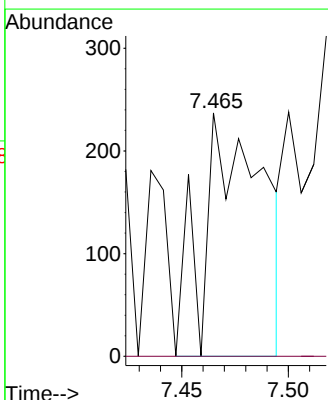
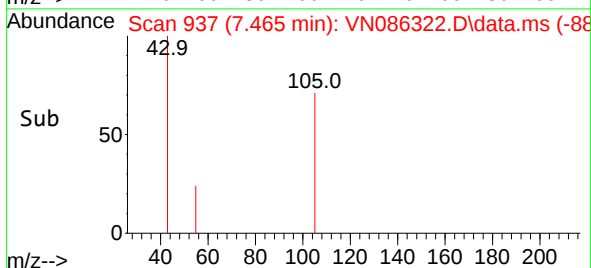
Tgt Ion: 43 Resp: 810
Ion Ratio Lower Upper
43 100
58 0.0 25.3 37.9#

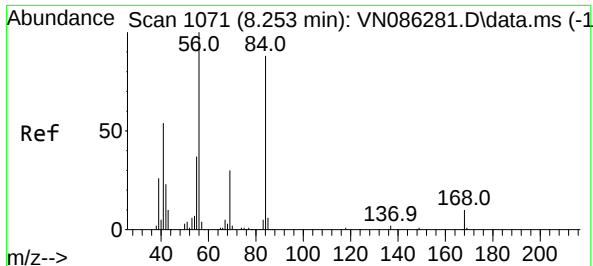


#25
2-Butanone
Concen: 0.241 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.012 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18



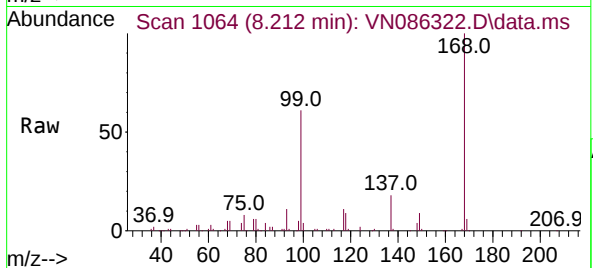
Tgt Ion: 43 Resp: 458
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#



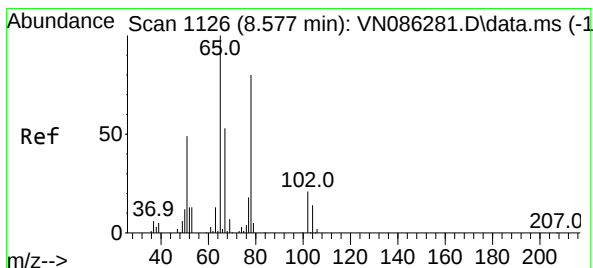
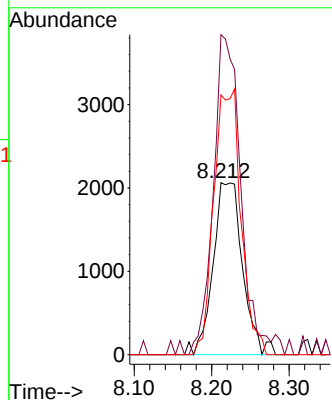
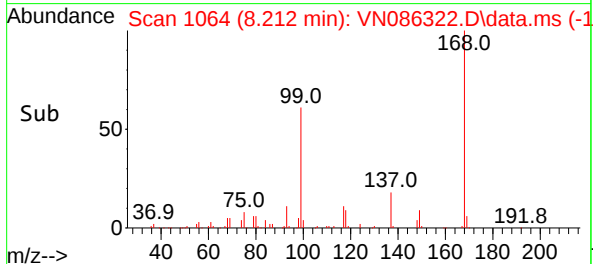


#31
Cyclohexane
Concen: 1.106 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.041 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Instrument :
MSVOA_N
ClientSampleId :

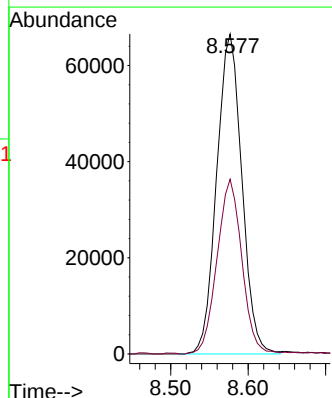
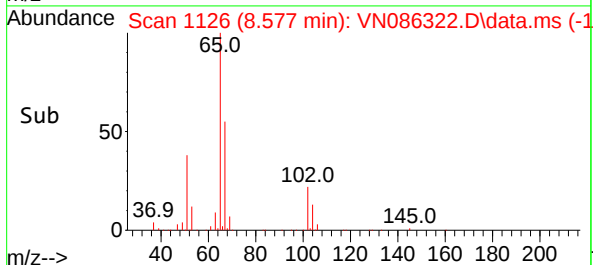
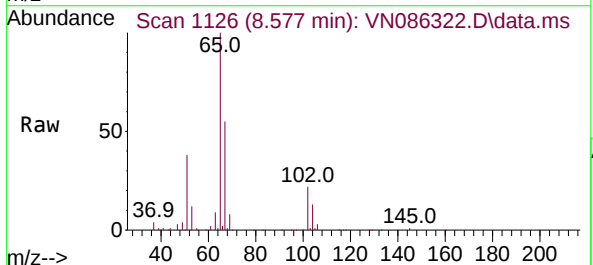


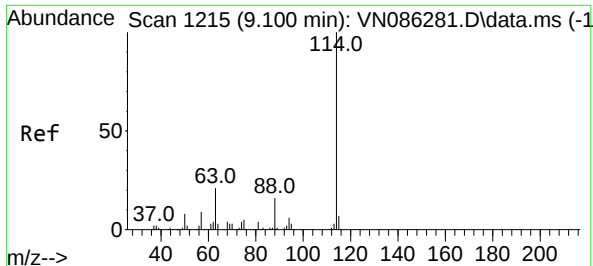
Tgt Ion: 56 Resp: 5474
Ion Ratio Lower Upper
56 100
69 177.8 24.2 36.2#
84 150.9 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 49.166 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

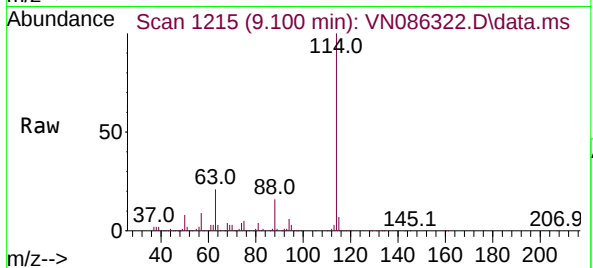
Tgt Ion: 65 Resp: 150222
Ion Ratio Lower Upper
65 100
67 54.0 0.0 106.0



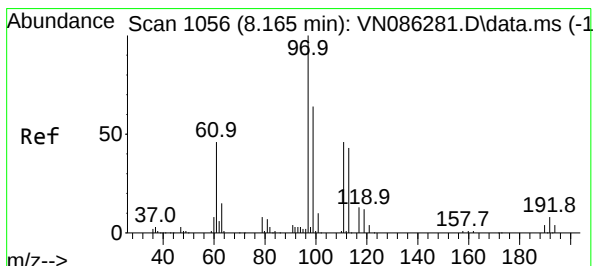
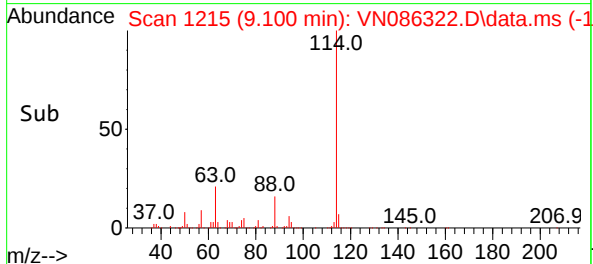
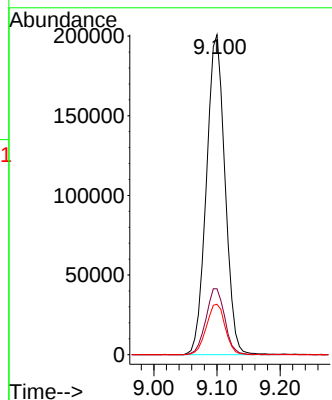


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Instrument :
MSVOA_N
ClientSampleId :

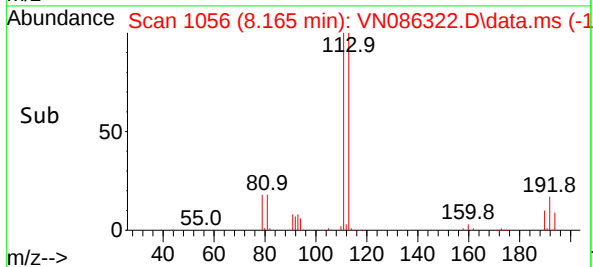
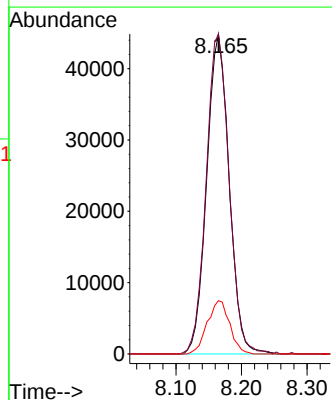
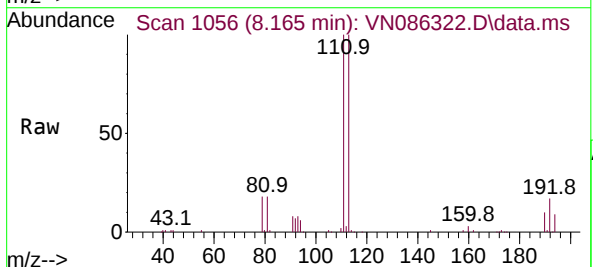


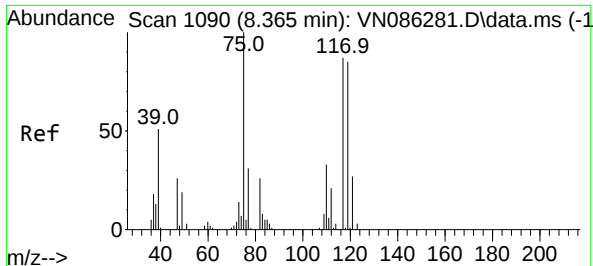
Tgt Ion:114 Resp: 409904
Ion Ratio Lower Upper
114 100
63 20.6 0.0 42.6
88 15.8 0.0 31.8



#35
Dibromofluoromethane
Concen: 56.006 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion:113 Resp: 106546
Ion Ratio Lower Upper
113 100
111 102.4 83.4 125.0
192 16.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.668 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

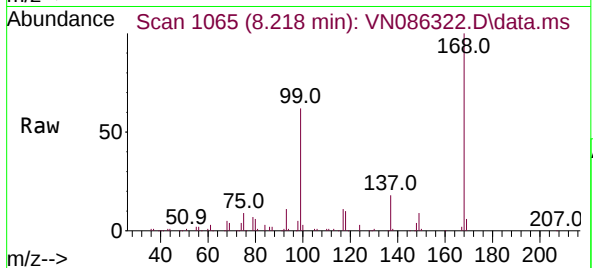
Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

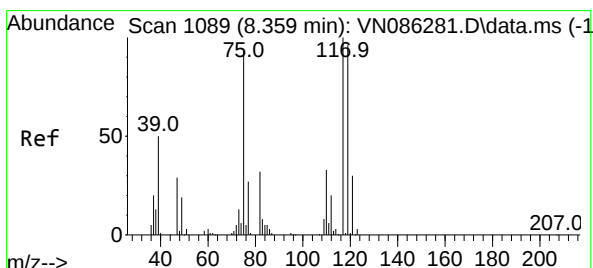
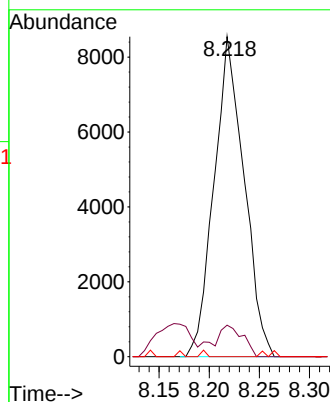
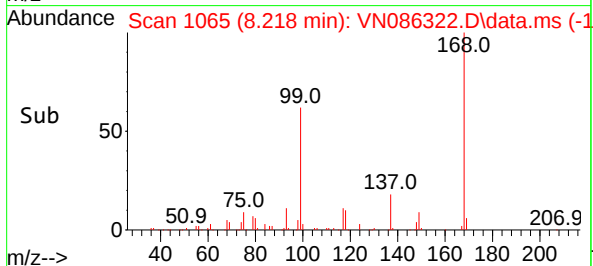
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	17739
Ion Ratio	Lower	Upper	
75	100		
110	7.9	16.8	50.4#
77	0.0	24.9	37.3#



#38

Carbon Tetrachloride

Concen: 6.342 ug/l

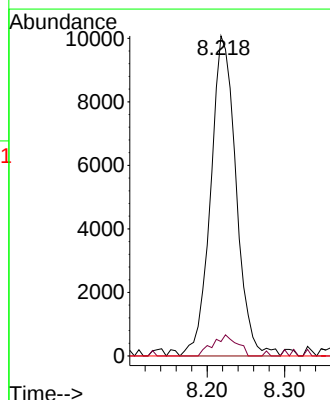
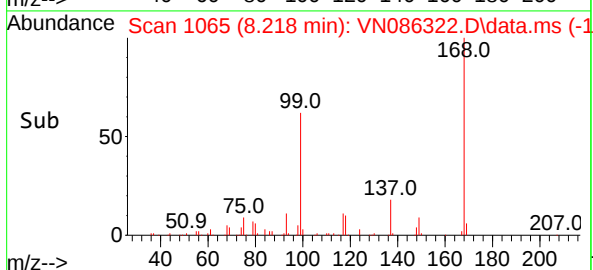
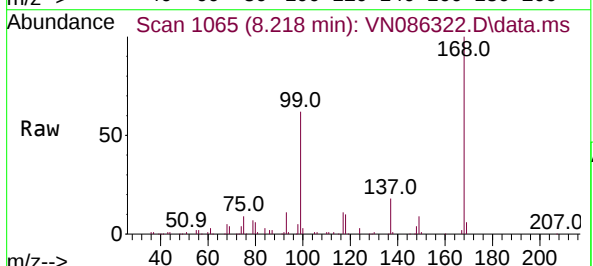
RT: 8.218 min Scan# 1065

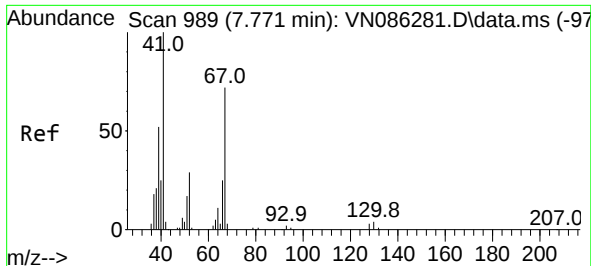
Delta R.T. -0.141 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

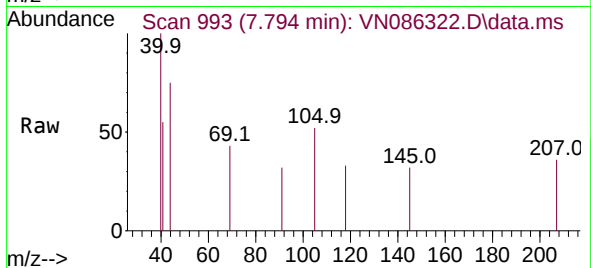
Tgt Ion:	117	Resp:	22950
Ion Ratio	Lower	Upper	
117	100		
119	4.5	76.8	115.2#
121	0.0	23.8	35.8#



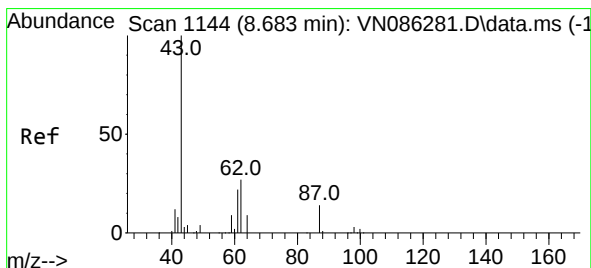
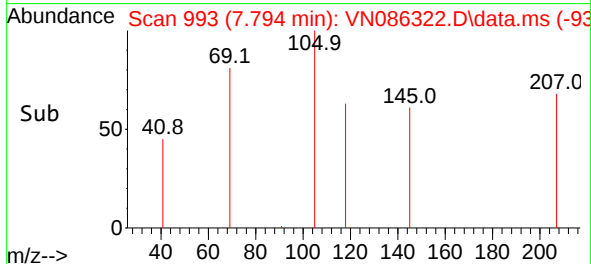
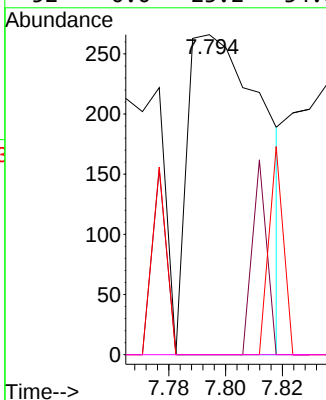


#41
Methacrylonitrile
Concen: 0.215 ug/l
RT: 7.794 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Instrument :
MSVOA_N
ClientSampleId :

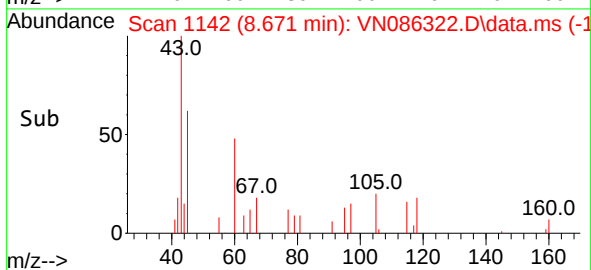
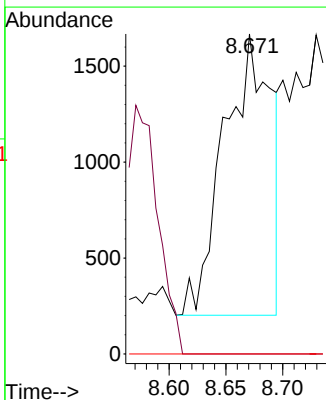
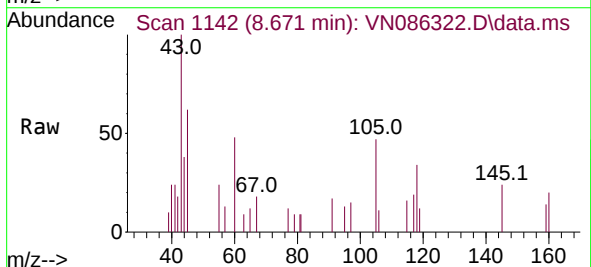


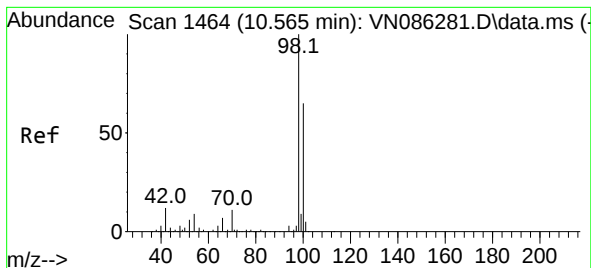
Tgt Ion: 41	Resp: 499
Ion Ratio	Lower Upper
41 100	
39 10.8	43.0 64.4#
67 11.0	58.8 88.2#
52 0.0	23.2 34.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.671 min Scan# 1142
Delta R.T. -0.012 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion: 43	Resp: 4218
Ion Ratio	Lower Upper
43 100	
61 0.0	20.5 30.7#
87 0.0	10.5 15.7#





#50

Toluene-d8

Concen: 51.039 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

Instrument :

MSVOA_N

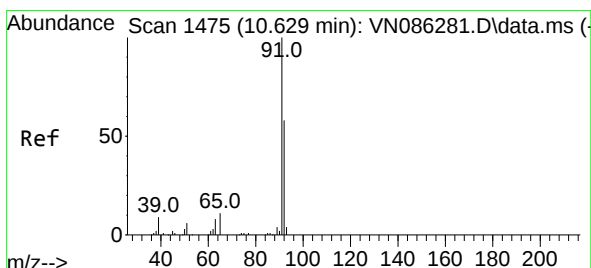
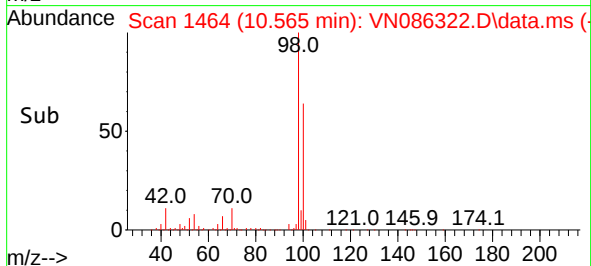
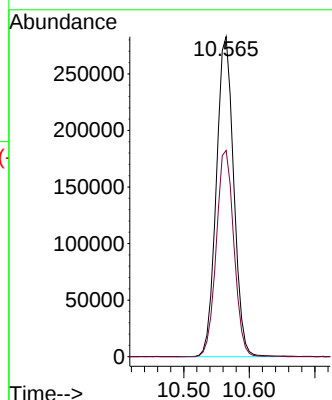
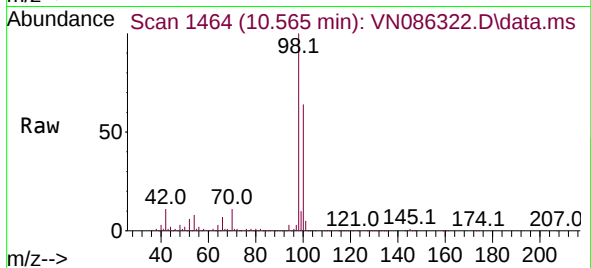
ClientSampleId :

Tgt Ion: 98 Resp: 518940

Ion Ratio Lower Upper

98 100

100 65.4 52.5 78.7



#52

Toluene

Concen: 0.596 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN086322.D

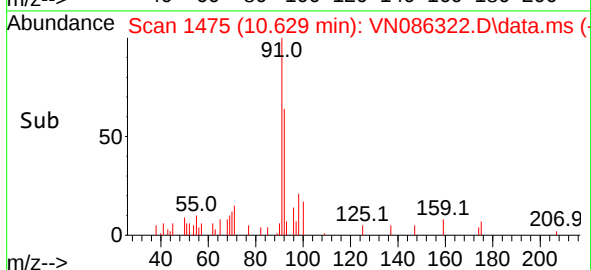
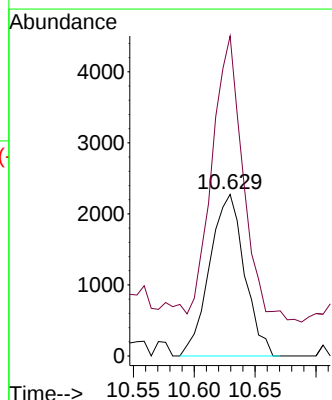
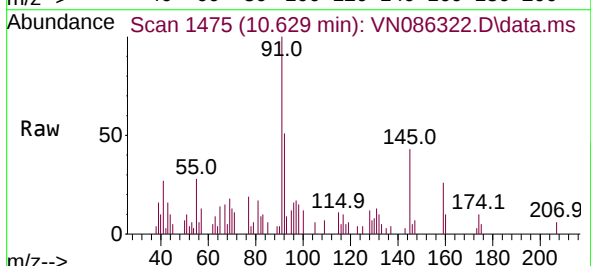
Acq: 17 Apr 2025 15:18

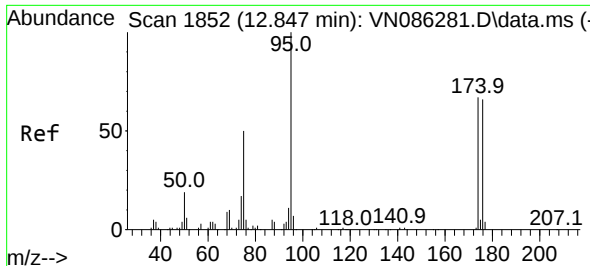
Tgt Ion: 92 Resp: 4528

Ion Ratio Lower Upper

92 100

91 159.0 137.3 205.9

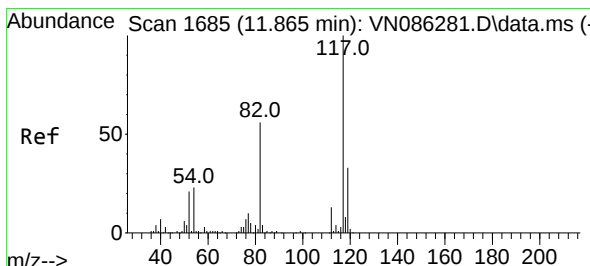
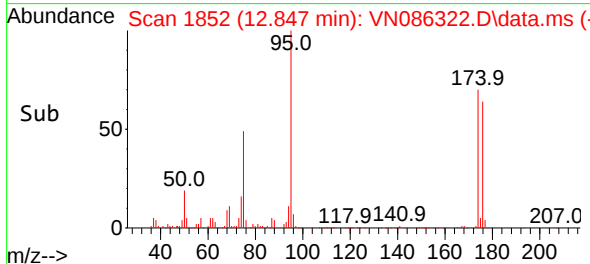
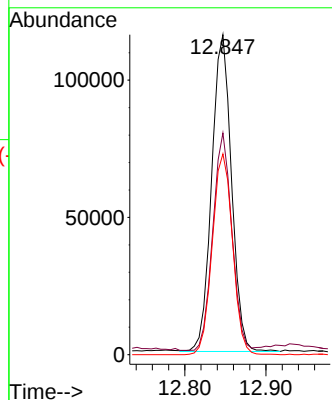
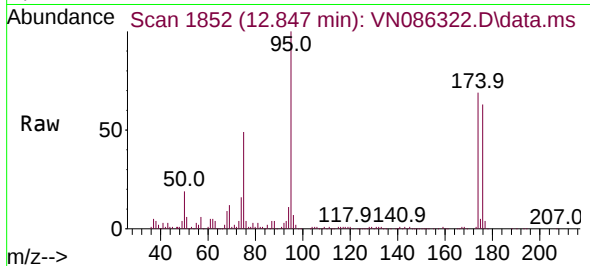




#62
4-Bromofluorobenzene
Concen: 52.757 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

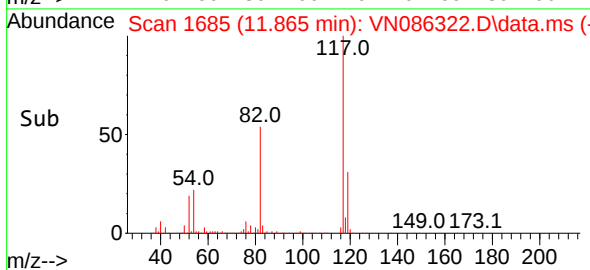
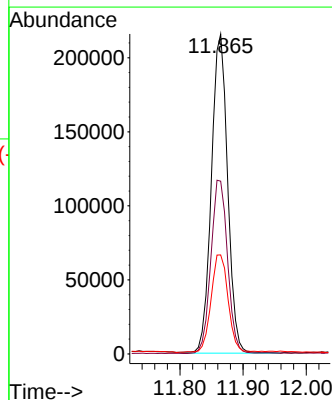
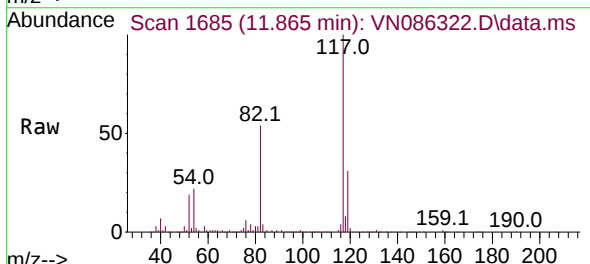
Instrument :
MSVOA_N
ClientSampleId :

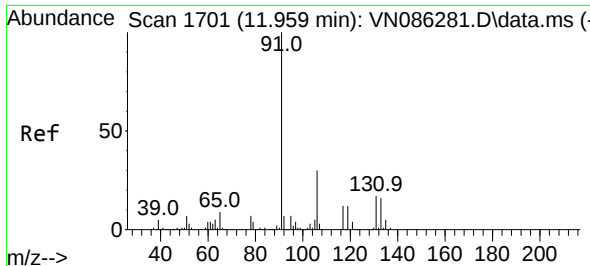
Tgt Ion: 95 Resp: 195648
Ion Ratio Lower Upper
95 100
174 67.6 0.0 133.4
176 64.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion: 117 Resp: 384613
Ion Ratio Lower Upper
117 100
82 54.0 44.7 67.1
119 30.4 26.4 39.6

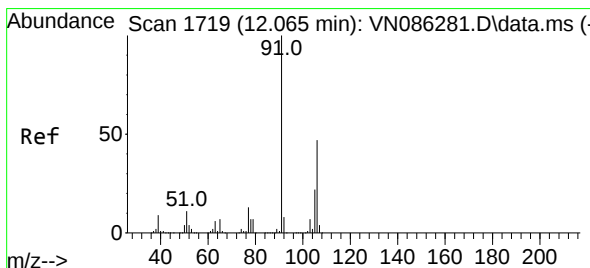
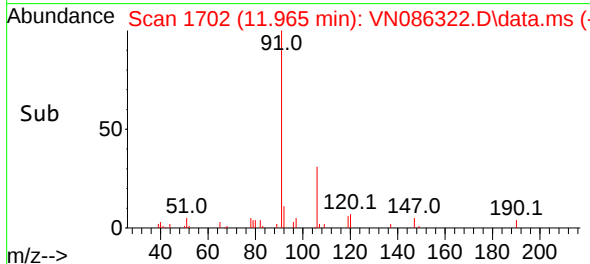
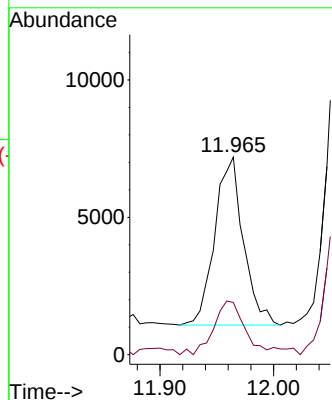
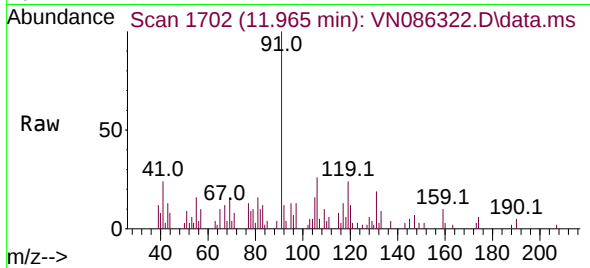




#67
Ethyl Benzene
Concen: 0.691 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

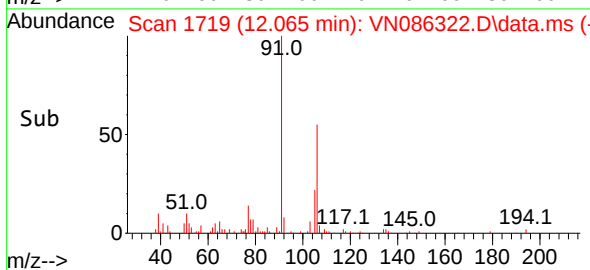
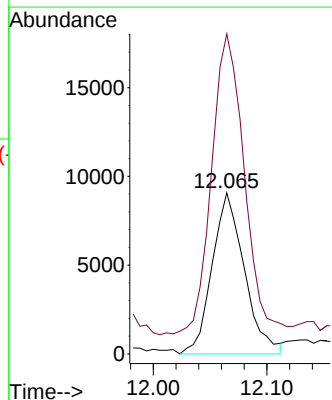
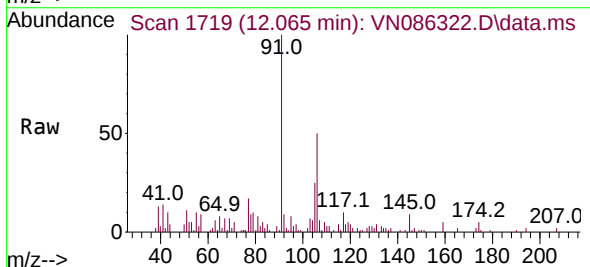
Instrument :
MSVOA_N
ClientSampleId :

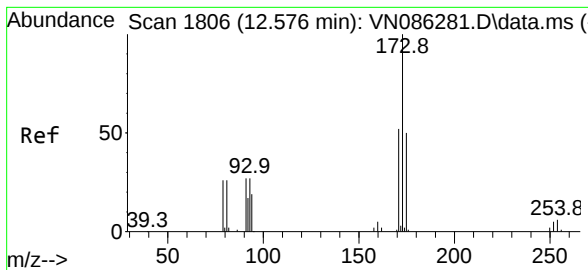
Tgt Ion: 91 Resp: 10706
Ion Ratio Lower Upper
91 100
106 31.1 24.3 36.5



#68
m/p-Xylenes
Concen: 3.082 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion:106 Resp: 17884
Ion Ratio Lower Upper
106 100
91 190.1 166.5 249.7





#71

Bromoform

Concen: 0.337 ug/l

RT: 12.582 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

Instrument :

MSVOA_N

ClientSampleId :

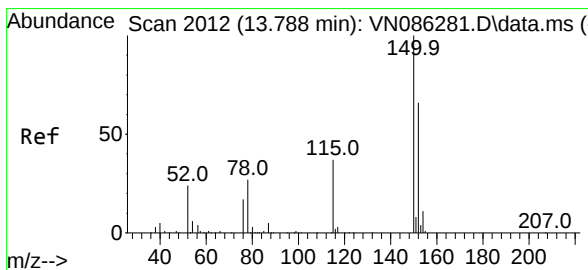
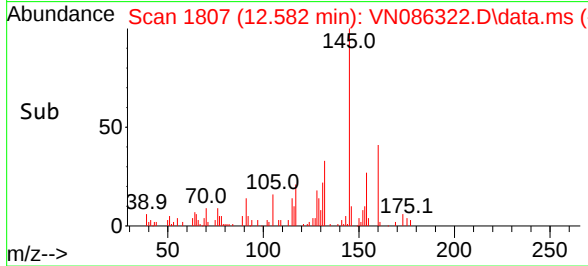
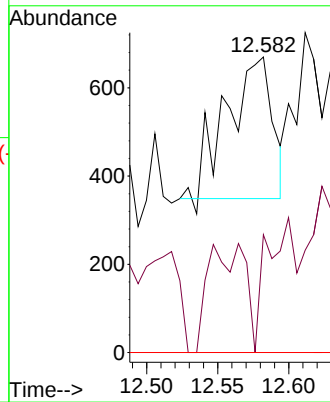
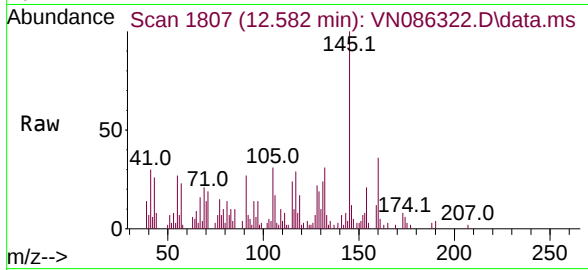
Tgt Ion:173 Resp: 718

Ion Ratio Lower Upper

173 100

175 61.3 24.6 73.6

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

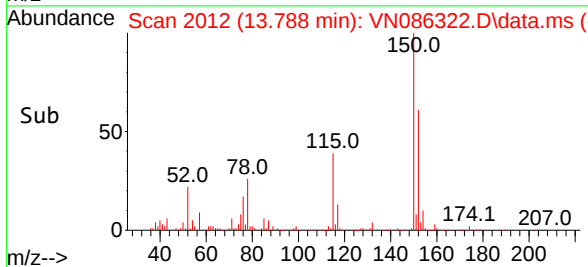
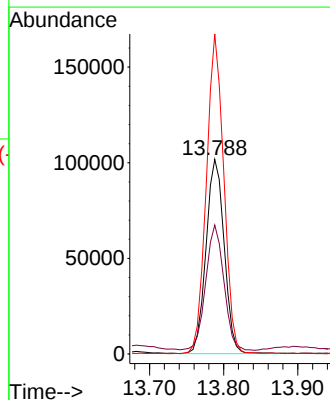
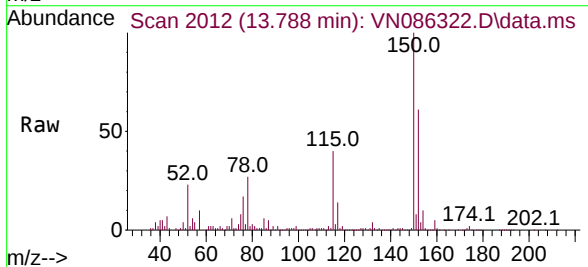
Tgt Ion:152 Resp: 172899

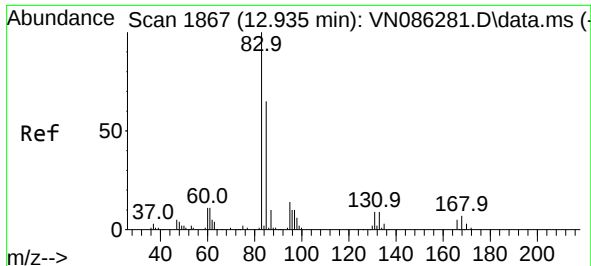
Ion Ratio Lower Upper

152 100

115 64.2 31.9 95.9

150 157.5 0.0 352.0

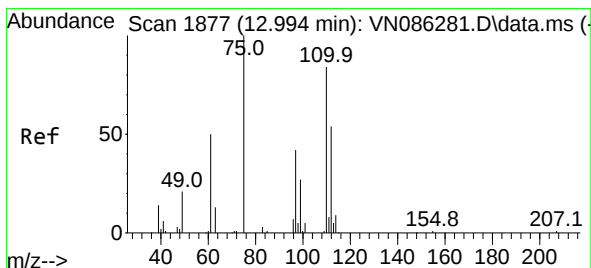
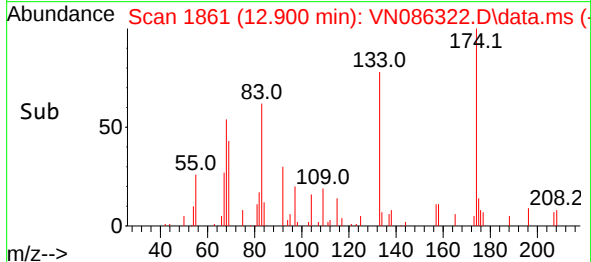
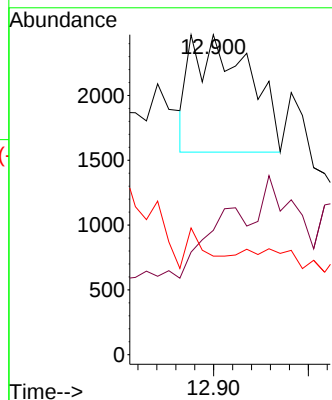
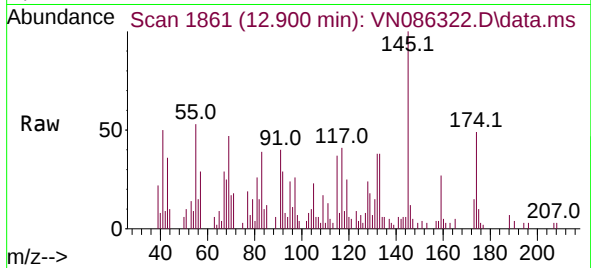




#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.465 ug/l
 RT: 12.900 min Scan# 1861
 Delta R.T. -0.035 min
 Lab File: VN086322.D
 Acq: 17 Apr 2025 15:18

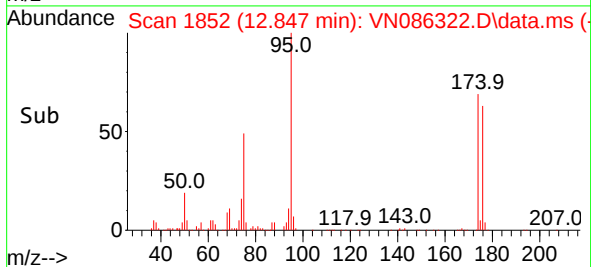
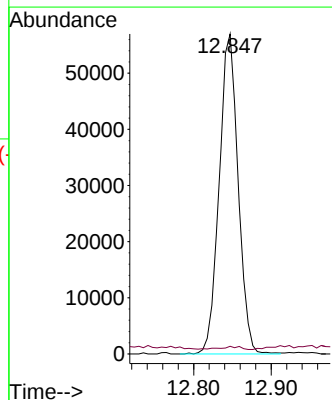
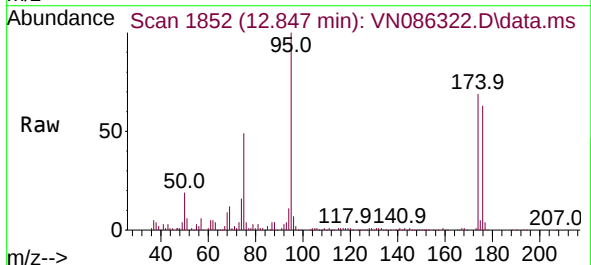
Instrument :
 MSVOA_N
 ClientSampleId :

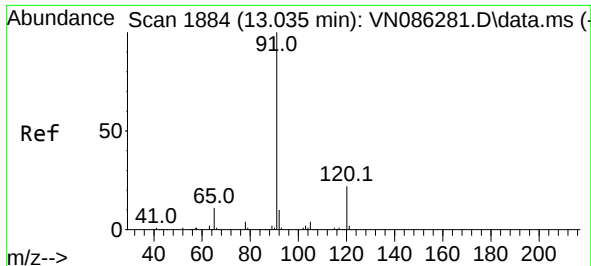
Tgt Ion: 83 Resp: 1889
 Ion Ratio Lower Upper
 83 100
 131 42.7 4.7 14.1#
 85 0.0 32.7 98.1#



#76
 1,2,3-Trichloropropane
 Concen: 23.716 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086322.D
 Acq: 17 Apr 2025 15:18

Tgt Ion: 75 Resp: 96763
 Ion Ratio Lower Upper
 75 100
 77 1.0 98.8 296.4#

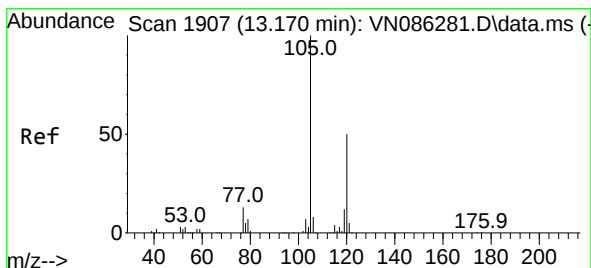
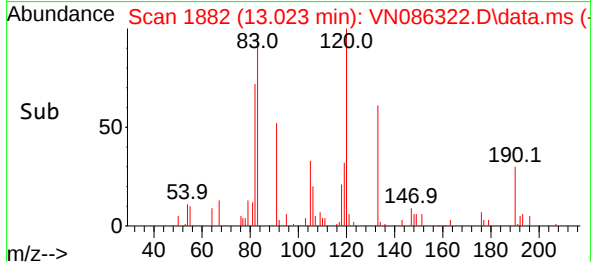
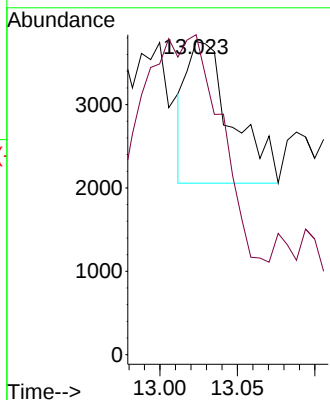
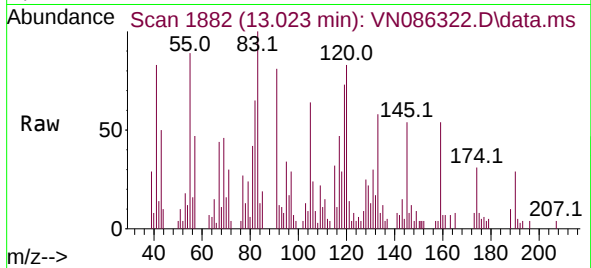




#78
n-propylbenzene
Concen: 0.208 ug/l
RT: 13.023 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

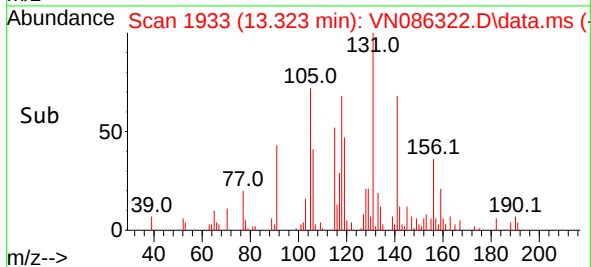
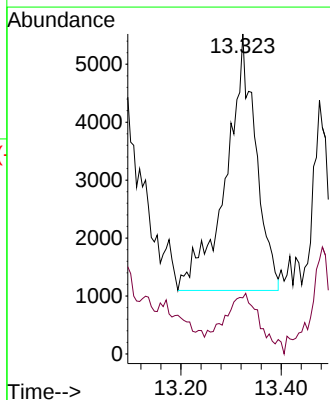
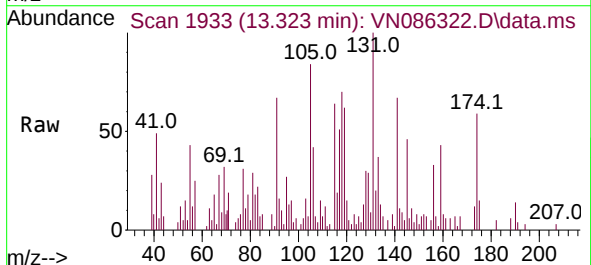
Instrument :
MSVOA_N
ClientSampleId :

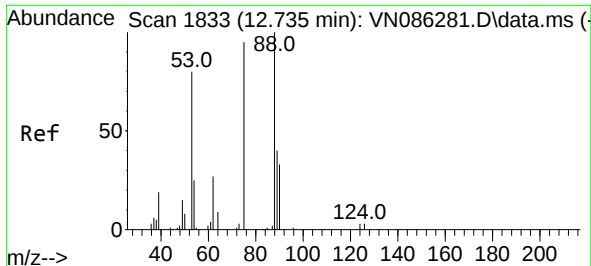
Tgt Ion: 91 Resp: 3464
Ion Ratio Lower Upper
91 100
120 458.1 11.1 33.3#



#80
1,3,5-Trimethylbenzene
Concen: 1.584 ug/l
RT: 13.323 min Scan# 1933
Delta R.T. 0.153 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion:105 Resp: 18339
Ion Ratio Lower Upper
105 100
120 27.8 24.5 73.5

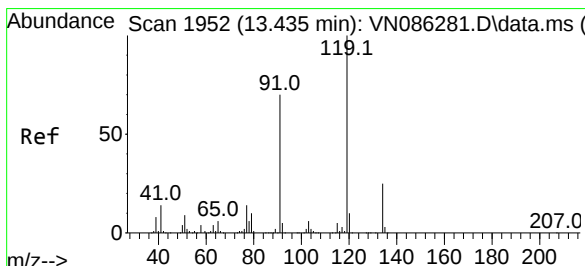
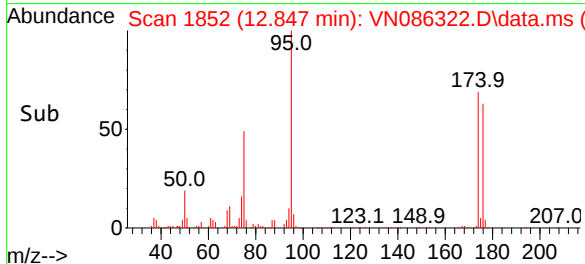
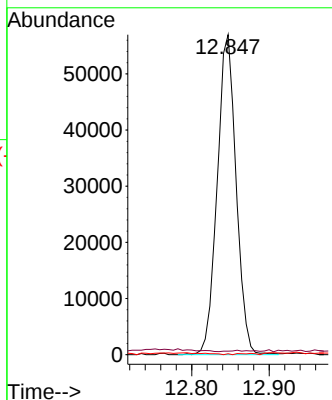
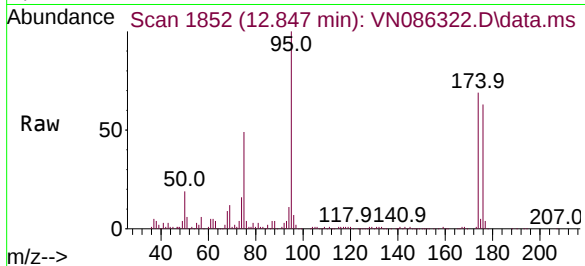




#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.956 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN086322.D
 Acq: 17 Apr 2025 15:18

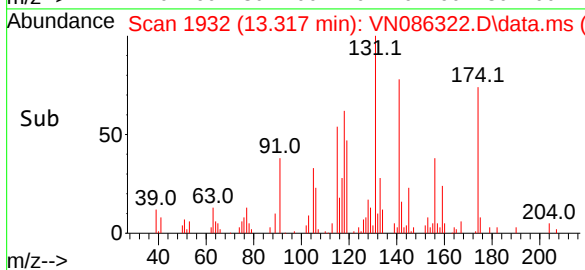
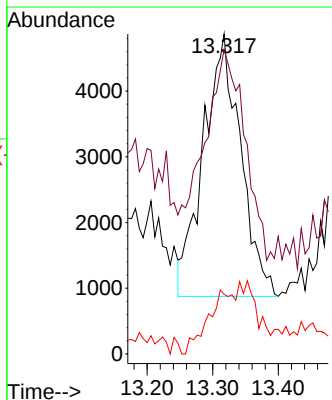
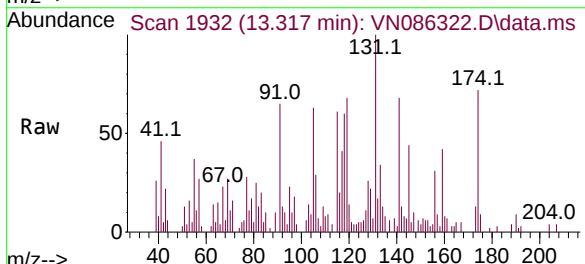
Instrument :
 MSVOA_N
 ClientSampleId :

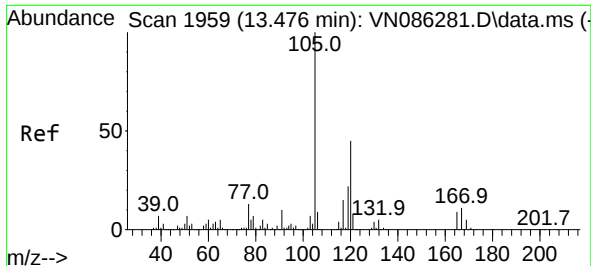
Tgt Ion: 75 Resp: 96763
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.2 118.8#
 89 0.0 35.7 53.5#



#83
 tert-Butylbenzene
 Concen: 1.575 ug/l
 RT: 13.317 min Scan# 1932
 Delta R.T. -0.118 min
 Lab File: VN086322.D
 Acq: 17 Apr 2025 15:18

Tgt Ion: 119 Resp: 15802
 Ion Ratio Lower Upper
 119 100
 91 84.1 34.4 103.3
 134 13.7 13.0 39.0

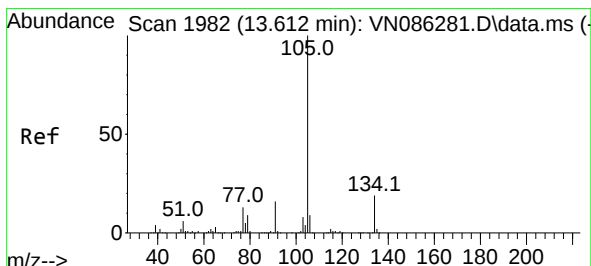
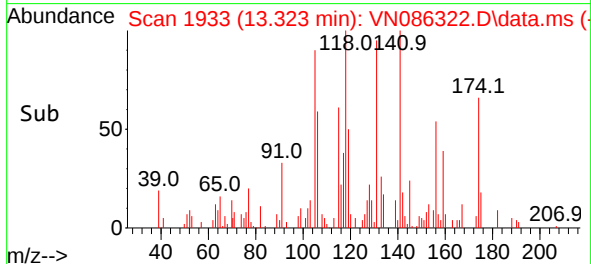
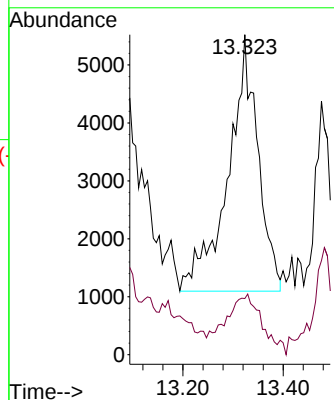
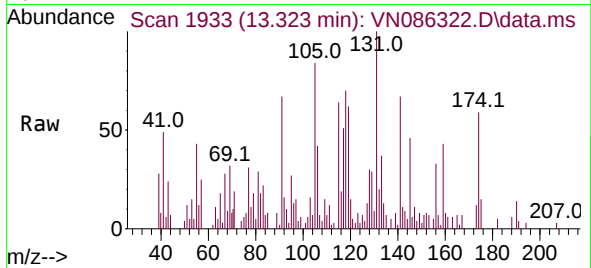




#84
1,2,4-Trimethylbenzene
Concen: 1.556 ug/l
RT: 13.323 min Scan# 1959
Delta R.T. -0.153 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

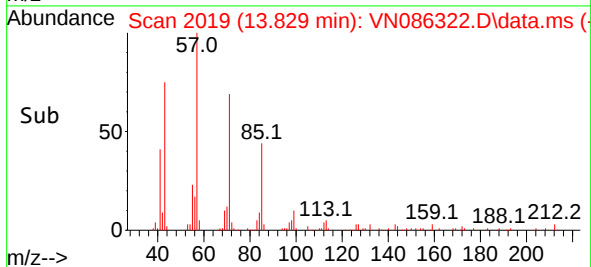
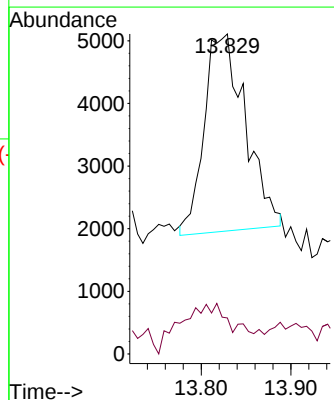
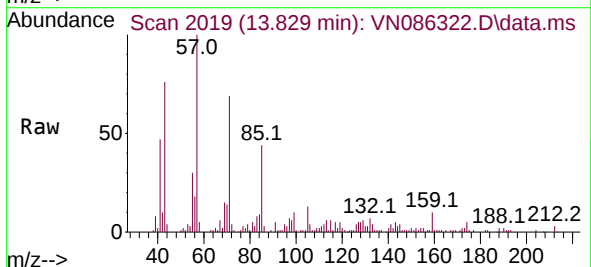
Instrument :
MSVOA_N
ClientSampleId :

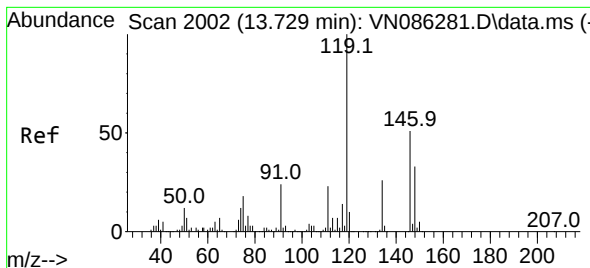
Tgt Ion:105 Resp: 18339
Ion Ratio Lower Upper
105 100
120 27.8 22.4 67.3



#85
sec-Butylbenzene
Concen: 0.721 ug/l
RT: 13.829 min Scan# 2019
Delta R.T. 0.218 min
Lab File: VN086322.D
Acq: 17 Apr 2025 15:18

Tgt Ion:105 Resp: 10037
Ion Ratio Lower Upper
105 100
134 28.0 9.7 29.1





#87

1,3-Dichlorobenzene

Concen: 0.605 ug/l

RT: 13.717 min Scan# 2000

Delta R.T. -0.012 min

Lab File: VN086322.D

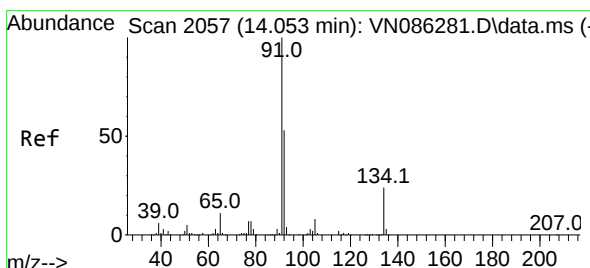
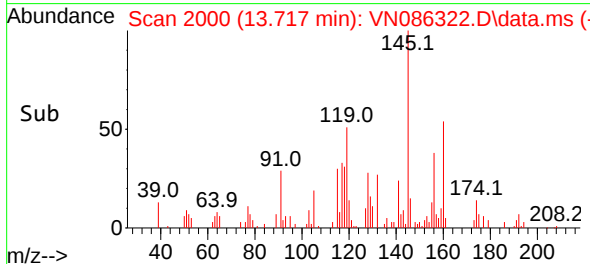
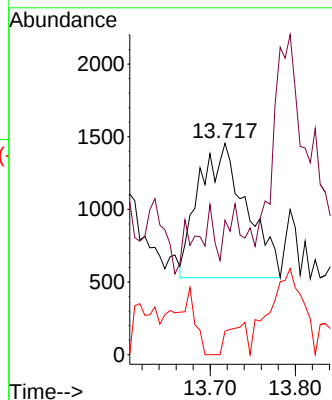
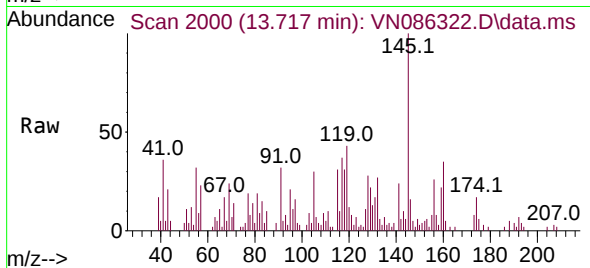
Acq: 17 Apr 2025 15:18

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:146 Resp: 3564
Ion Ratio Lower Upper
146 100
111 11.8 21.9 65.7#
148 0.0 31.9 95.5#



#89

n-Butylbenzene

Concen: 0.695 ug/l

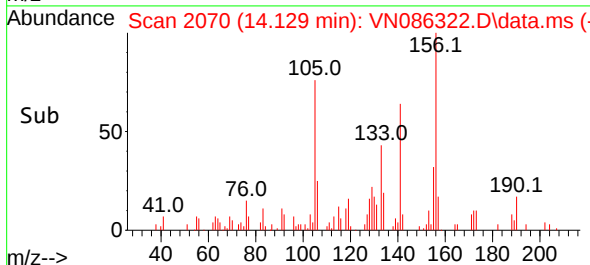
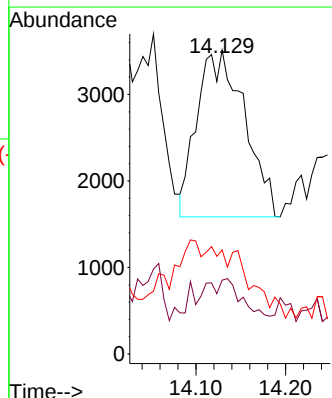
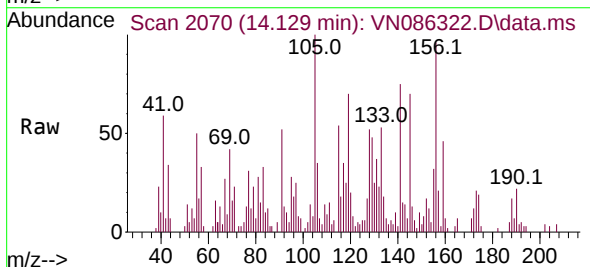
RT: 14.129 min Scan# 2070

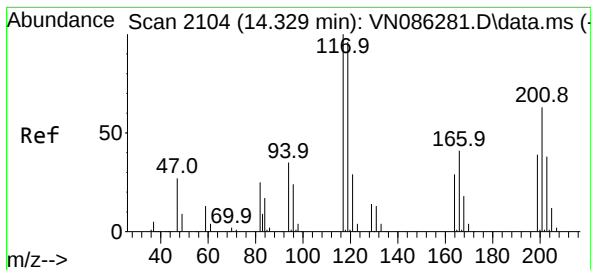
Delta R.T. 0.076 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

Tgt Ion: 91 Resp: 7068
Ion Ratio Lower Upper
91 100
92 0.0 26.8 80.4#
134 0.0 12.2 36.6#





#90

Hexachloroethane

Concen: 0.730 ug/l

RT: 14.323 min Scan# 2103

Delta R.T. -0.006 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

Instrument :

MSVOA_N

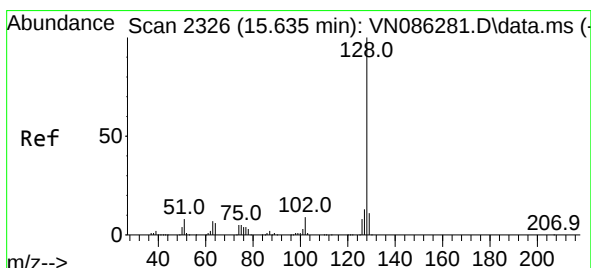
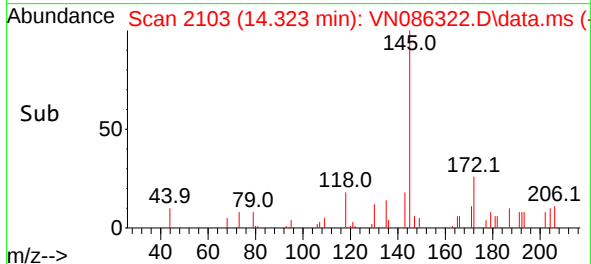
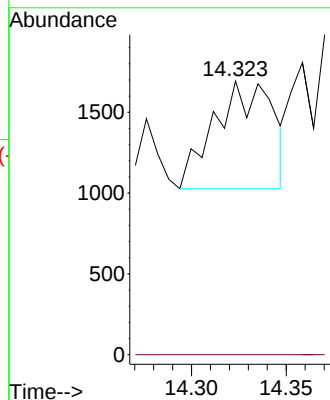
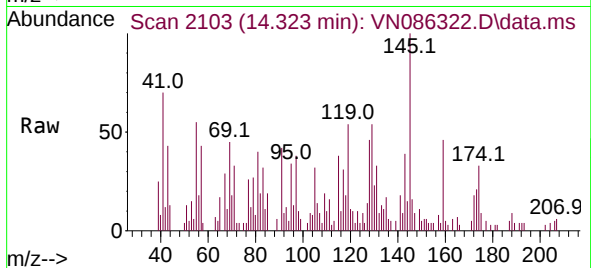
ClientSampleId :

Tgt Ion:117 Resp: 1408

Ion Ratio Lower Upper

117 100

201 0.0 31.4 94.2#



#95

Naphthalene

Concen: 0.741 ug/l

RT: 15.629 min Scan# 2325

Delta R.T. -0.006 min

Lab File: VN086322.D

Acq: 17 Apr 2025 15:18

Tgt Ion:128 Resp: 7186

Ion Ratio Lower Upper

128 100

127 23.4 10.2 15.4#

129 74.6 8.6 13.0#

