

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084351.D
 Acq On : 08 Oct 2024 16:05
 Operator : JC\MD
 Sample : P4337-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 09 02:32:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

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

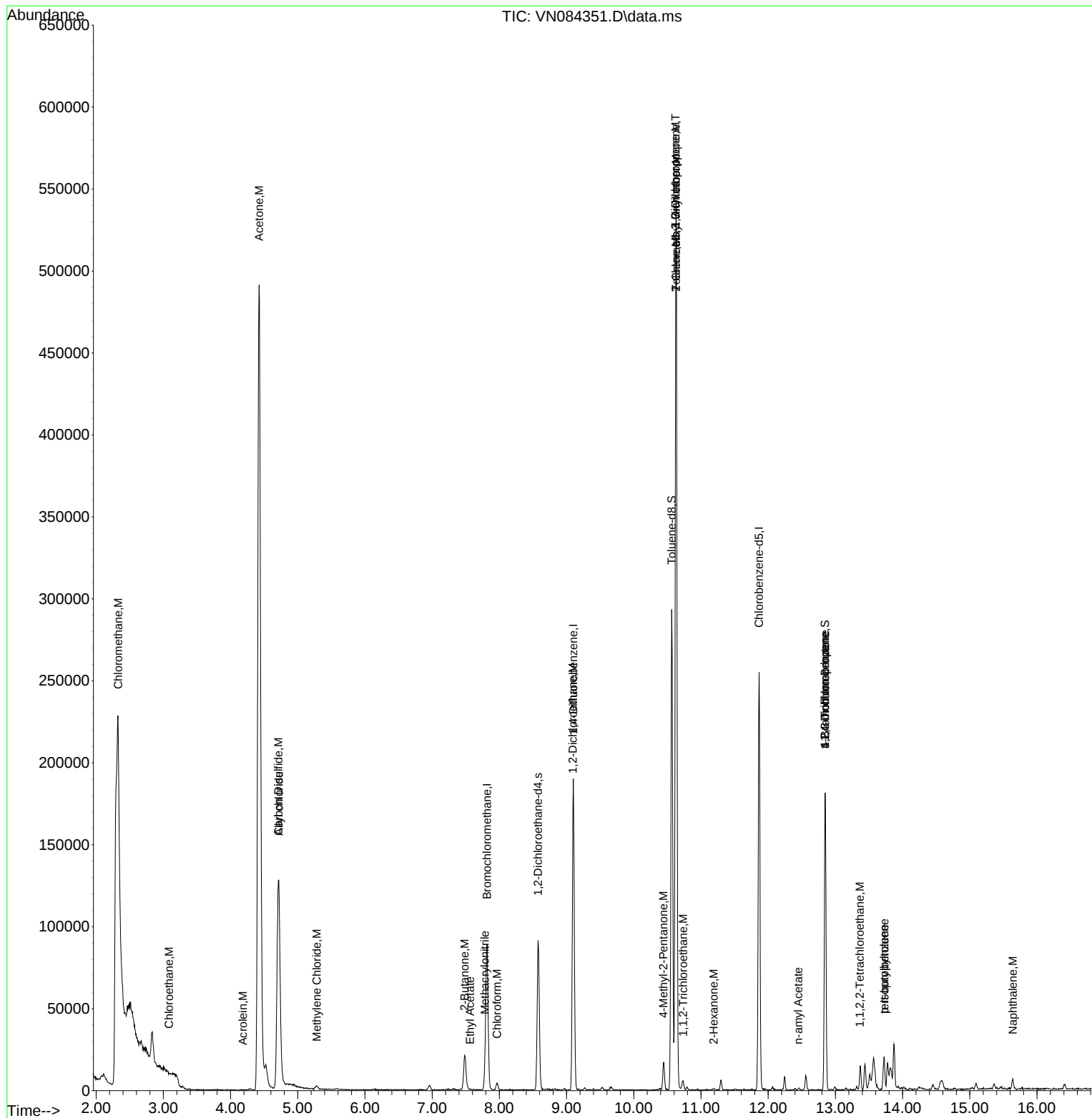
Internal Standards						
1) Bromochloromethane	7.818	128	30720	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	157276	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146077	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	75843	30.665	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.233%
60) 4-Bromofluorobenzene	12.847	95	64761	26.862	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.533%
63) Toluene-d8	10.565	98	197805	29.230	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.330	50	1406	0.659	ug/l #	42
6) Chloroethane	3.083	64	524	0.382	ug/l #	82
13) Acrolein	4.183	56	315	0.708	ug/l #	14
15) Acetone	4.424	58	295470	961.432	ug/l	93
16) Carbon Disulfide	4.712	76	4860	0.853	ug/l #	75
17) Allyl chloride	4.718	41	23666	7.632	ug/l	84
18) Methylene Chloride	5.283	84	964	0.447	ug/l #	76
25) Chloroform	7.965	83	4337	1.119	ug/l	91
30) 2-Butanone	7.483	43	35142	25.565	ug/l	98
35) Methacrylonitrile	7.783	41	626	0.427	ug/l #	49
36) 1,2-Dichloroethane	9.094	62	5932	2.202	ug/l #	75
43) Ethyl Acetate	7.565	43	639	0.236	ug/l #	67
47) n-amyl Acetate	12.447	43	949	0.240	ug/l #	49
48) t-1,3-Dichloropropene	10.624	75	2720	0.900	ug/l #	1
49) cis-1,3-Dichloropropene	10.624	75	2720	0.859	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	4907	2.650	ug/l #	19
55) 2-Chloroethyl vinyl ether	10.629	63	28194	20.327	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	11940	4.388	ug/l	94
59) 2-Hexanone	11.188	43	740	0.366	ug/l #	75
62) Toluene	10.629	91	419130	49.012	ug/l	99
71) 1,1,2,2-Tetrachloroethane	13.365	83	1142	0.426	ug/l #	26
72) 1,2,3-Trichloropropane	12.847	75	34607	15.061	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	34607	35.245	ug/l #	12
79) tert-butylbenzene	13.729	119	8370	1.343	ug/l	61
82) p-Isopropyltoluene	13.729	119	8370	1.159	ug/l	92
91) Naphthalene	15.641	128	6334	0.952	ug/l #	96

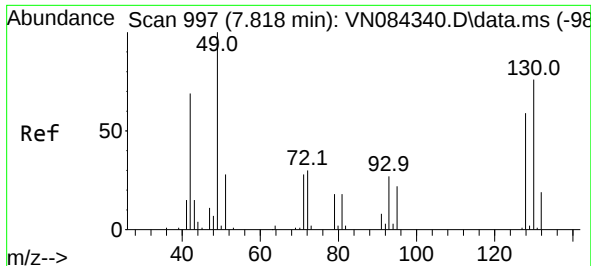
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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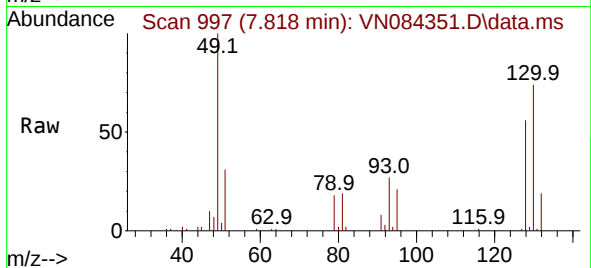
Quant Time: Oct 09 02:32:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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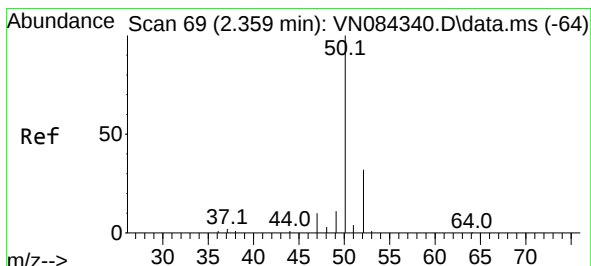
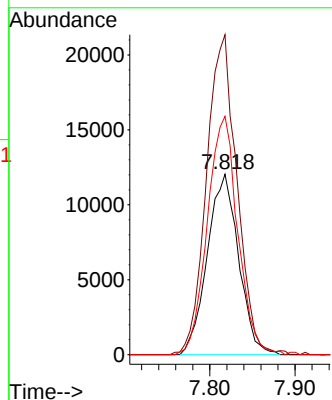
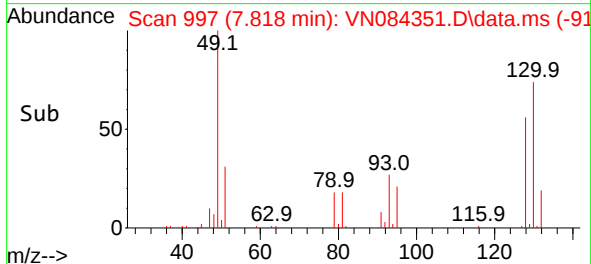


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :

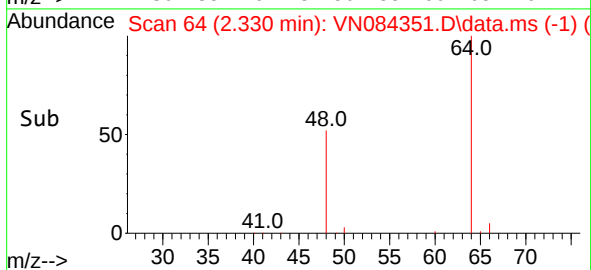
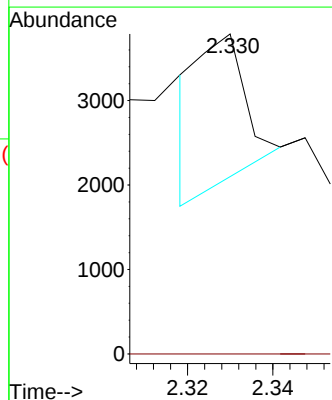
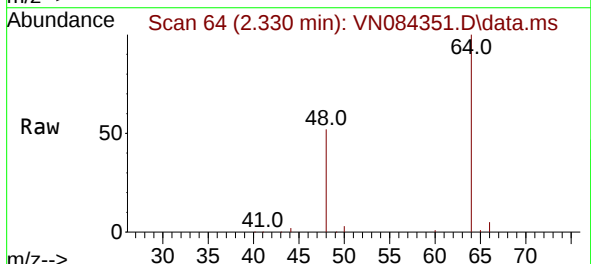


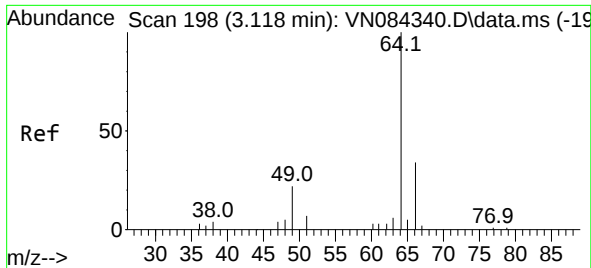
Tgt Ion:128 Resp: 30720
Ion Ratio Lower Upper
128 100
49 171.8 0.0 430.0
130 128.5 0.0 329.8



#3
Chloromethane
Concen: 0.659 ug/l
RT: 2.330 min Scan# 64
Delta R.T. -0.029 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

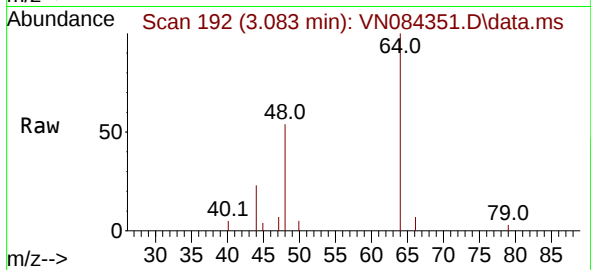
Tgt Ion: 50 Resp: 1406
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#



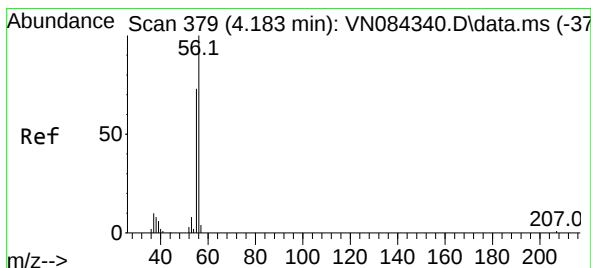
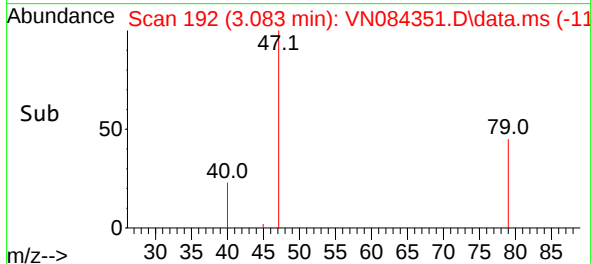
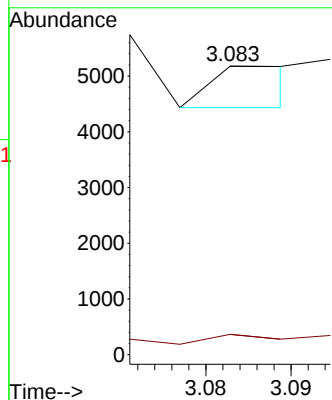


#6
Chloroethane
Concen: 0.382 ug/l
RT: 3.083 min Scan# 198
Delta R.T. -0.035 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :

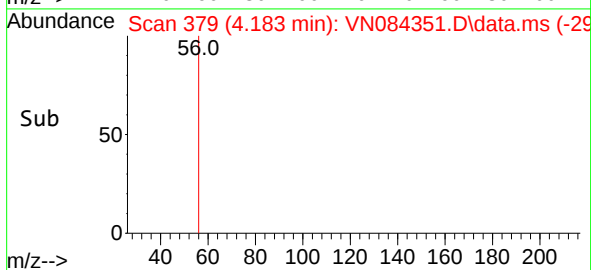
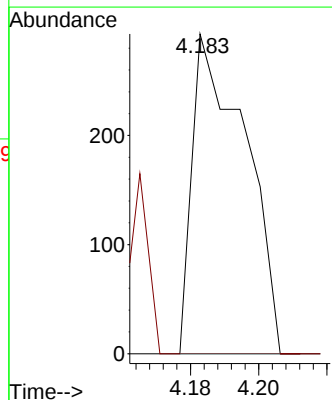
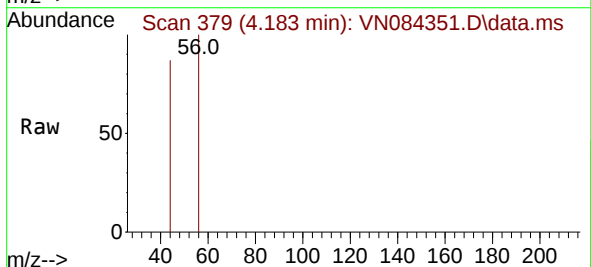


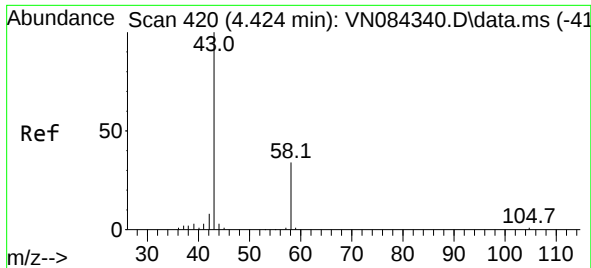
Tgt Ion: 64 Resp: 524
Ion Ratio Lower Upper
64 100
66 23.9 27.7 41.5#



#13
Acrolein
Concen: 0.708 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 0.0 56.4 84.6#





#15

Acetone

Concen: 961.432 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Instrument :

MSVOA_N

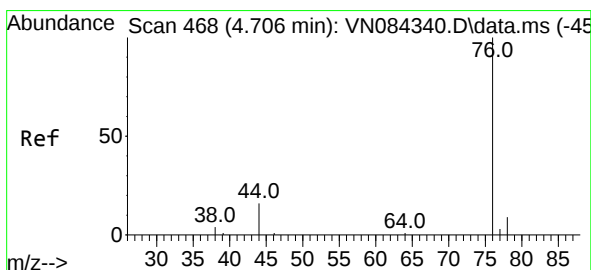
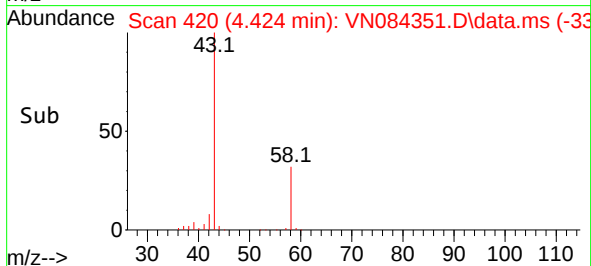
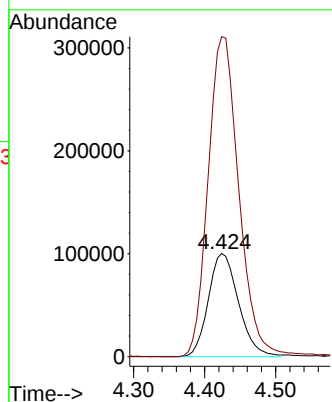
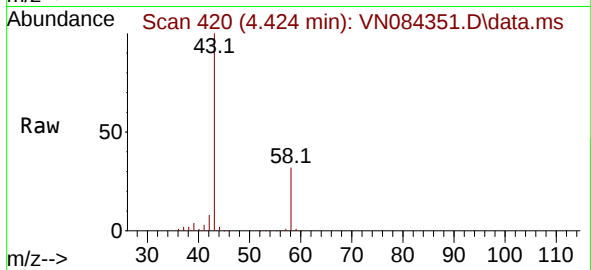
ClientSampleId :

Tgt Ion: 58 Resp: 295470

Ion Ratio Lower Upper

58 100

43 309.7 237.5 356.3



#16

Carbon Disulfide

Concen: 0.853 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN084351.D

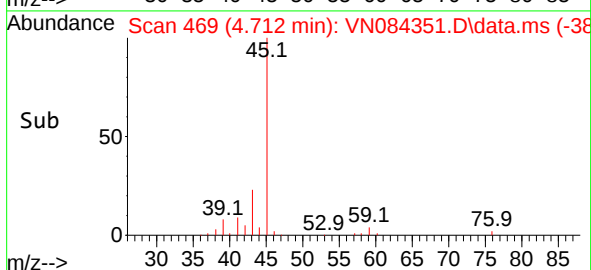
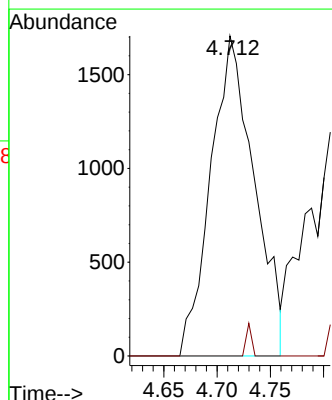
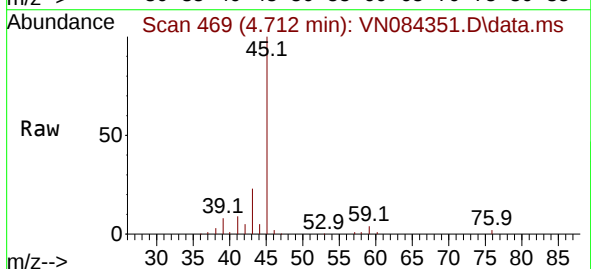
Acq: 08 Oct 2024 16:05

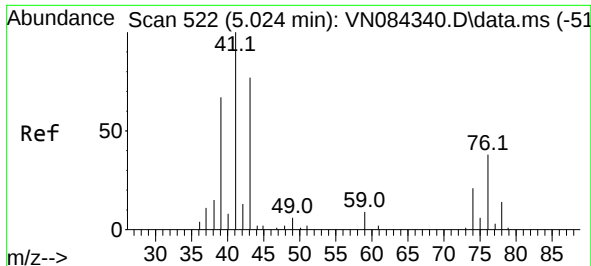
Tgt Ion: 76 Resp: 4860

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#17

Allyl chloride

Concen: 7.632 ug/l

RT: 4.718 min Scan# 41

Delta R.T. -0.306 min

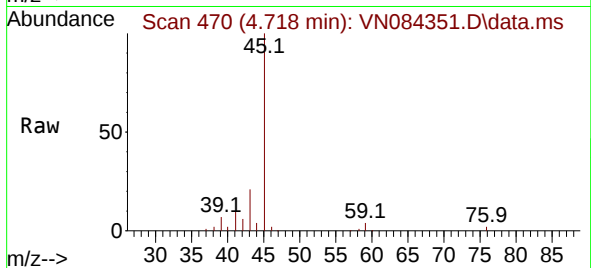
Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Instrument :

MSVOA_N

ClientSampleId :



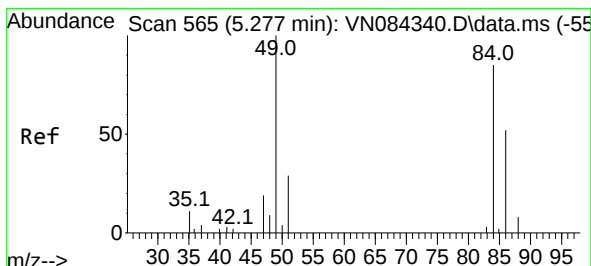
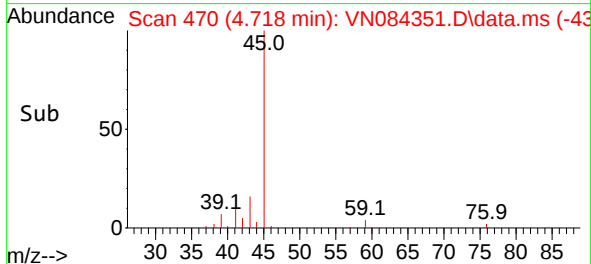
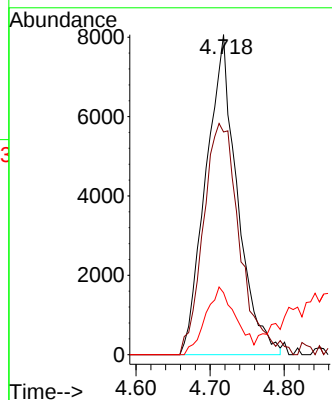
Tgt Ion: 41 Resp: 23666

Ion Ratio Lower Upper

41 100

39 69.6 31.4 94.3

76 19.3 17.8 53.5



#18

Methylene Chloride

Concen: 0.447 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Tgt Ion: 84 Resp: 964

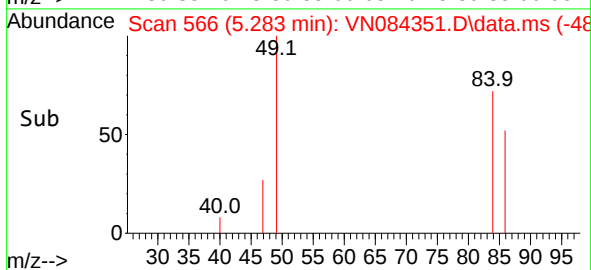
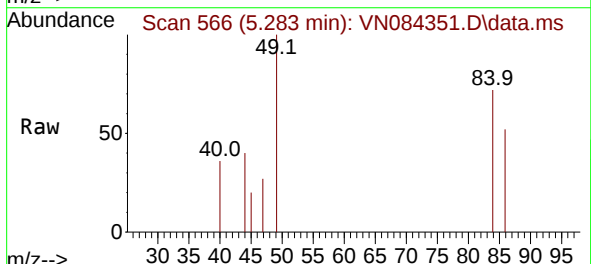
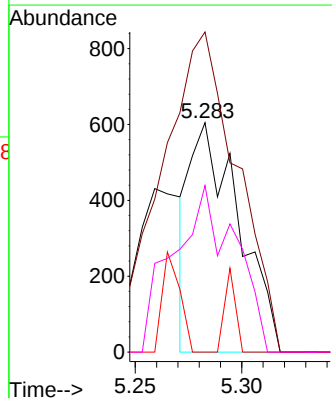
Ion Ratio Lower Upper

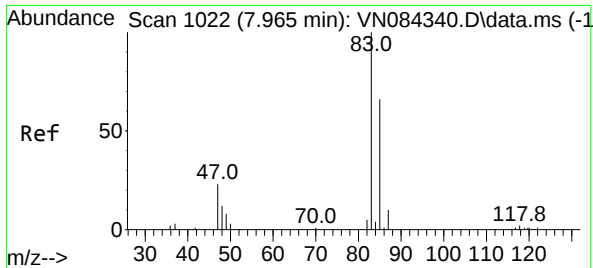
84 100

49 139.5 94.6 142.0

51 0.0 27.3 40.9#

86 72.6 49.4 74.0

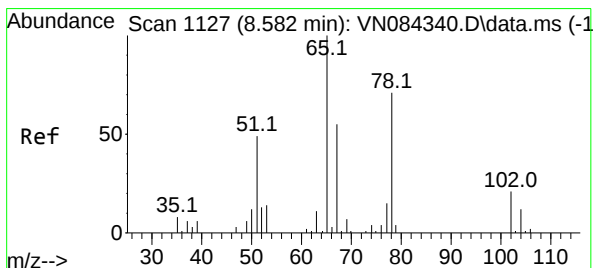
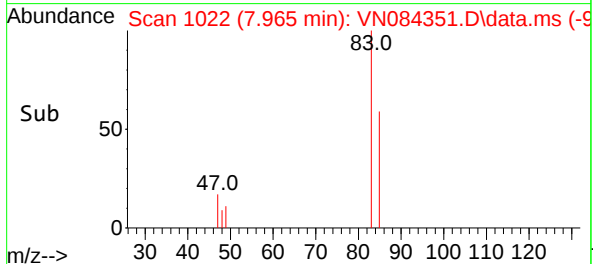
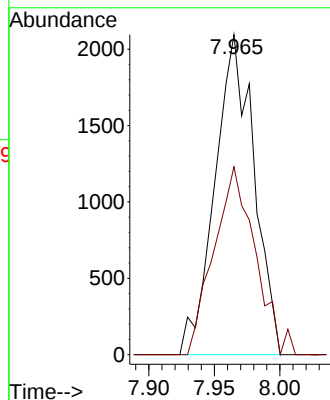
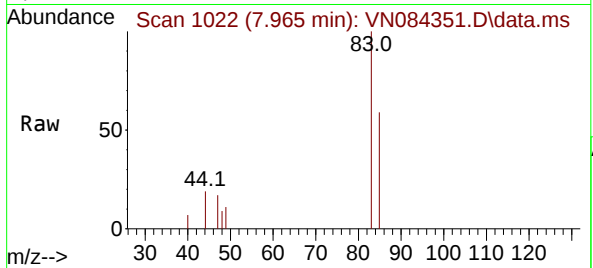




#25
Chloroform
Concen: 1.119 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

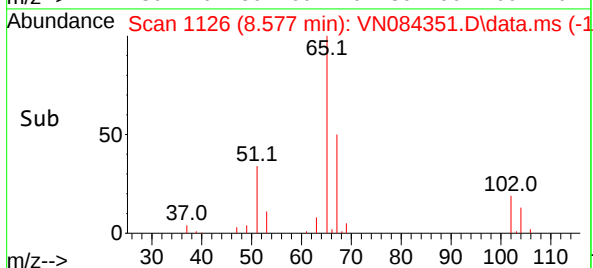
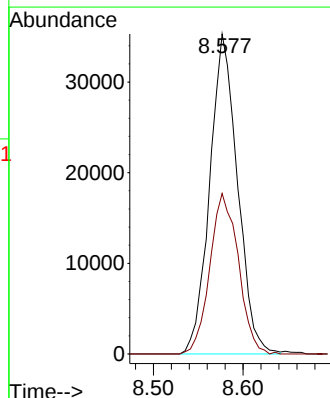
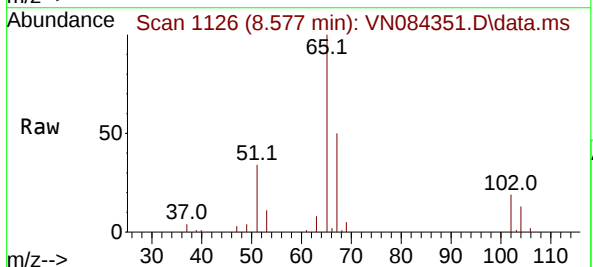
Instrument :
MSVOA_N
ClientSampleId :

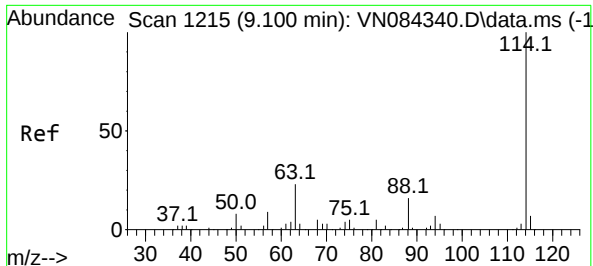
Tgt Ion: 83 Resp: 4337
Ion Ratio Lower Upper
83 100
85 58.7 52.4 78.6



#27
1,2-Dichloroethane-d4
Concen: 30.665 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion: 65 Resp: 75843
Ion Ratio Lower Upper
65 100
67 51.4 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Instrument :

MSVOA_N

ClientSampleId :

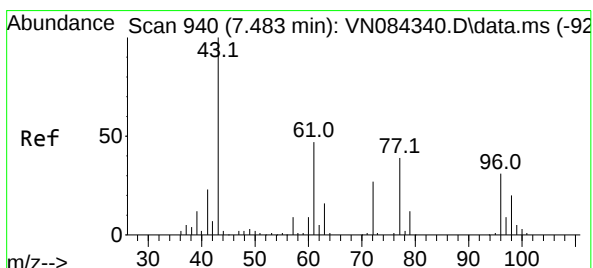
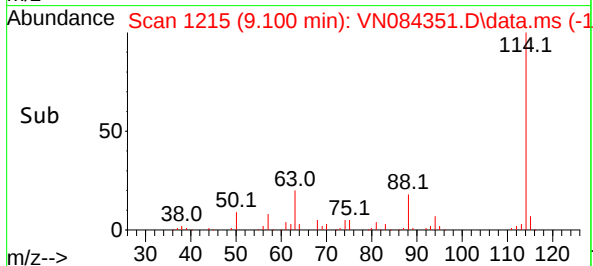
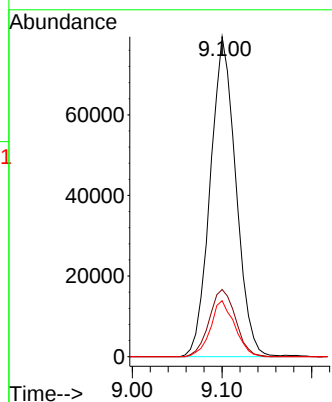
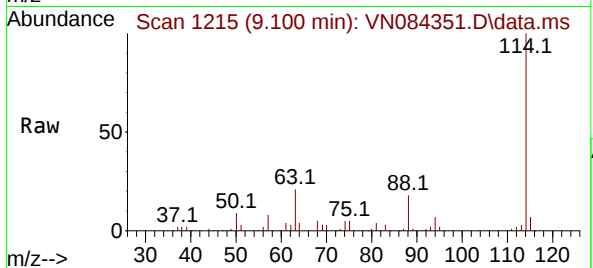
Tgt Ion:114 Resp: 157276

Ion Ratio Lower Upper

114 100

63 21.6 17.4 26.0

88 16.6 13.2 19.8



#30

2-Butanone

Concen: 25.565 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

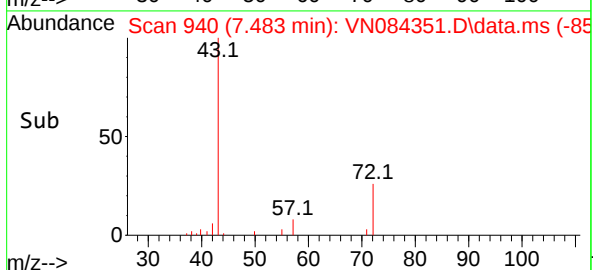
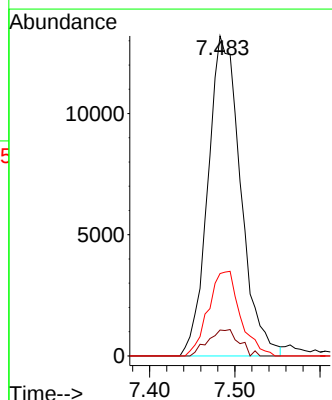
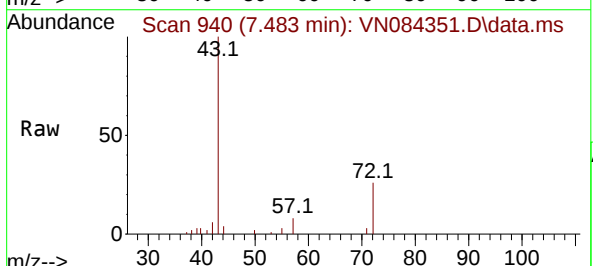
Tgt Ion: 43 Resp: 35142

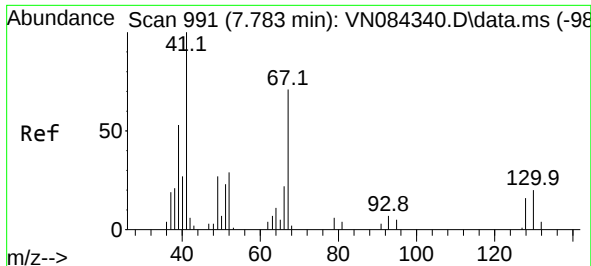
Ion Ratio Lower Upper

43 100

57 7.1 6.6 9.8

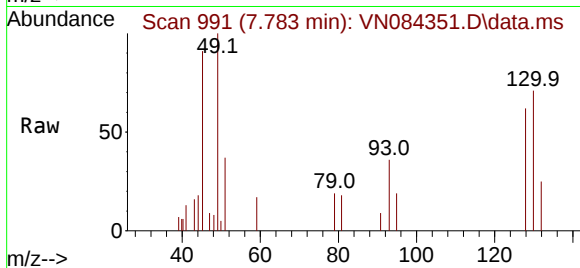
72 25.8 21.3 31.9



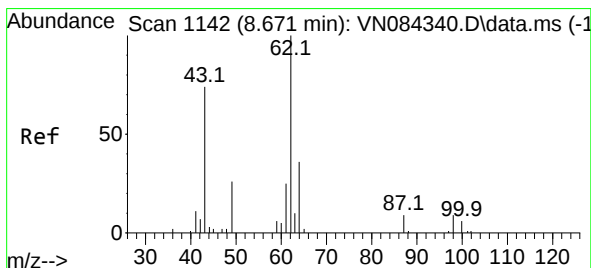
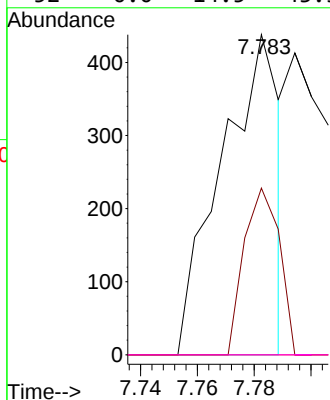
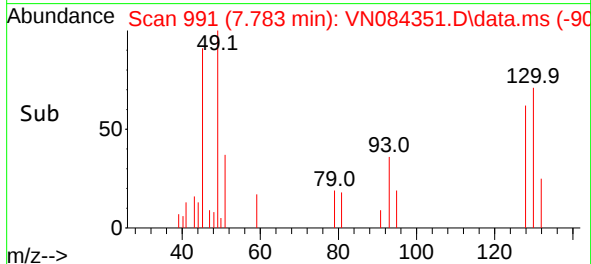


#35
Methacrylonitrile
Concen: 0.427 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :

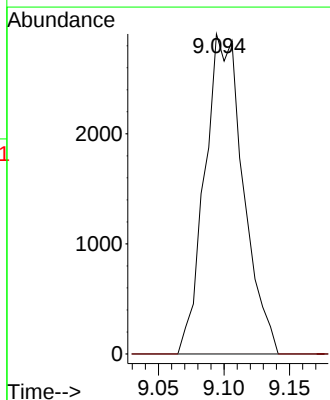
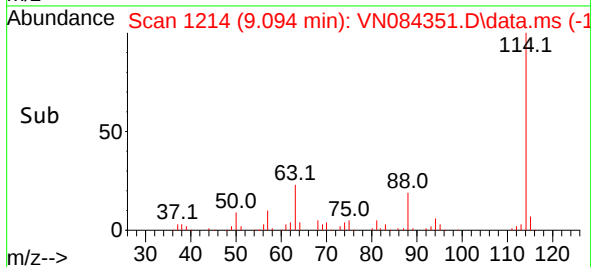
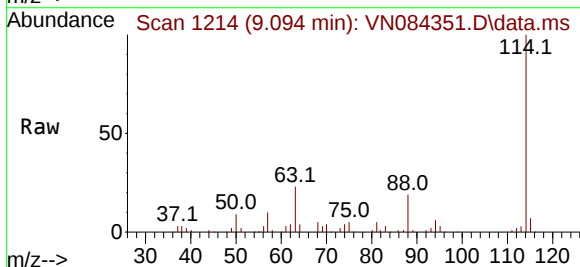


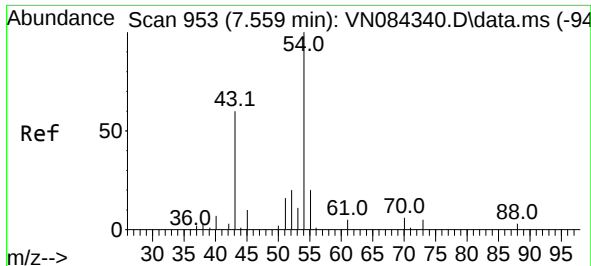
Tgt Ion: 41	Resp: 626
Ion Ratio	Lower Upper
41 100	
39 52.1	26.4 79.0
67 0.0	35.7 107.1#
52 0.0	14.5 43.5#



#36
1,2-Dichloroethane
Concen: 2.202 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.424 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion: 62	Resp: 5932
Ion Ratio	Lower Upper
62 100	
98 0.0	7.3 10.9#





#43

Ethyl Acetate

Concen: 0.236 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Instrument :

MSVOA_N

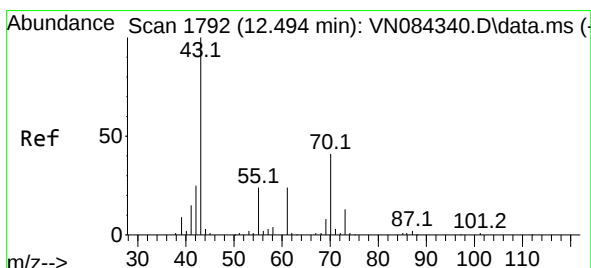
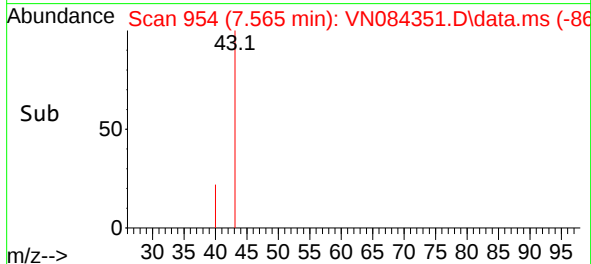
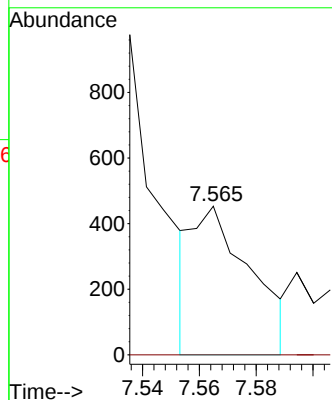
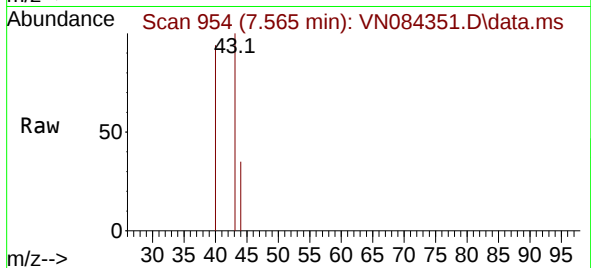
ClientSampleId :

Tgt Ion: 43 Resp: 639

Ion Ratio Lower Upper

43 100

45 0.0 10.6 16.0#



#47

n-ethyl Acetate

Concen: 0.240 ug/l

RT: 12.447 min Scan# 1784

Delta R.T. -0.047 min

Lab File: VN084351.D

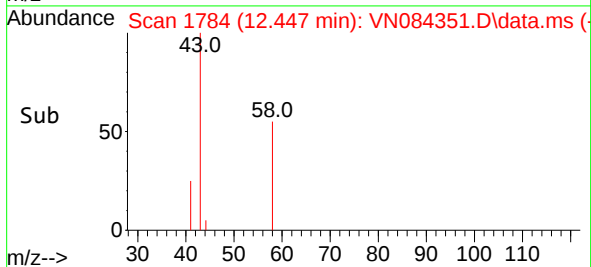
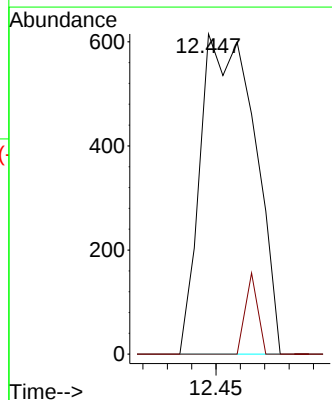
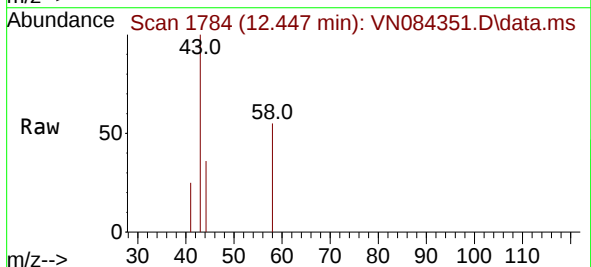
Acq: 08 Oct 2024 16:05

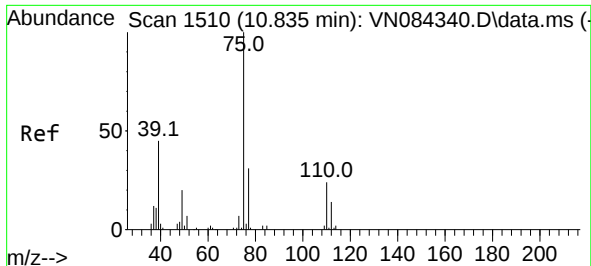
Tgt Ion: 43 Resp: 949

Ion Ratio Lower Upper

43 100

55 0.0 20.6 31.0#

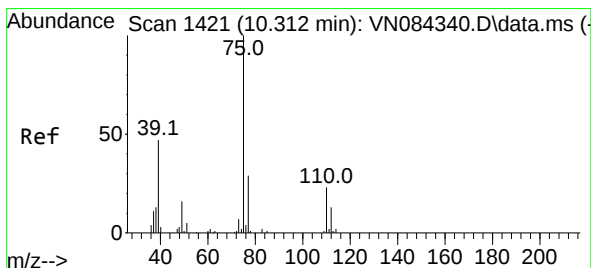
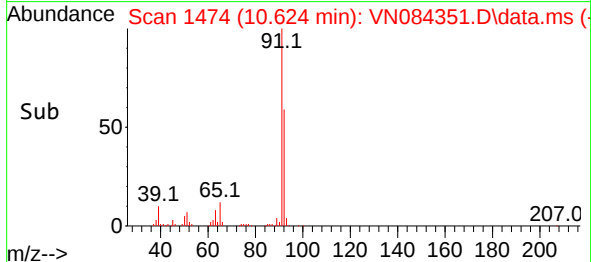
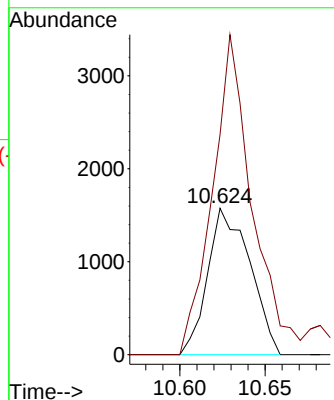
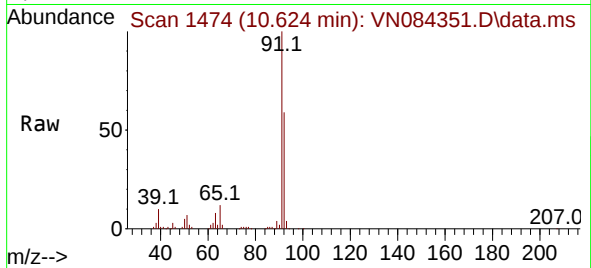




#48
t-1,3-Dichloropropene
Concen: 0.900 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.212 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

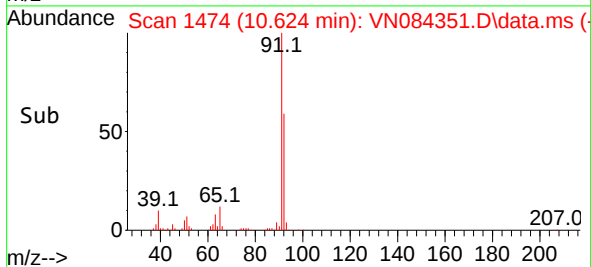
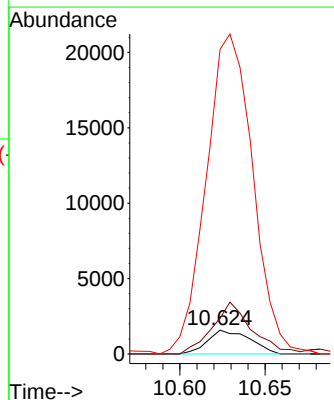
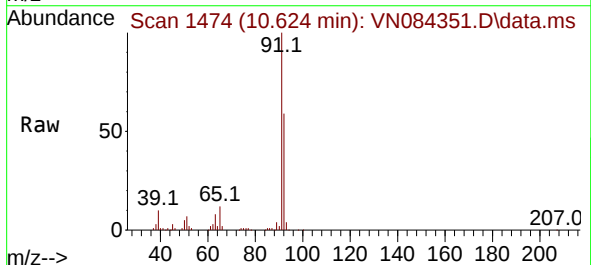
Instrument :
MSVOA_N
ClientSampleId :

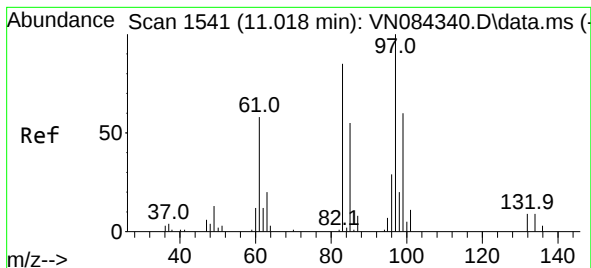
Tgt Ion: 75 Resp: 2720
Ion Ratio Lower Upper
75 100
77 150.2 24.6 37.0#



#49
cis-1,3-Dichloropropene
Concen: 0.859 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.312 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

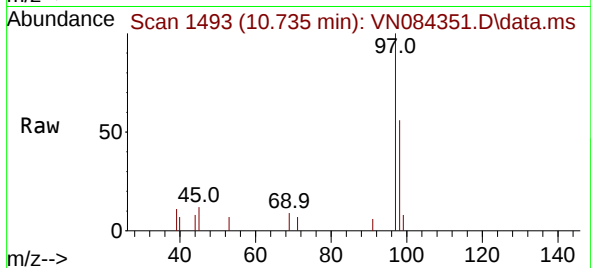
Tgt Ion: 75 Resp: 2720
Ion Ratio Lower Upper
75 100
77 150.2 22.9 34.3#
39 1209.4 37.4 56.2#



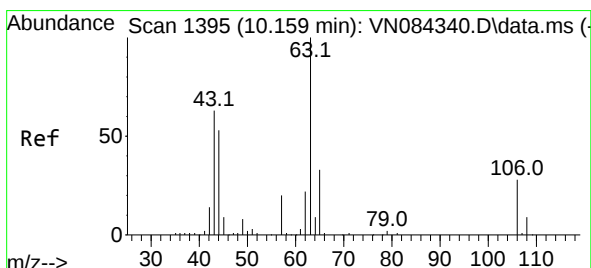
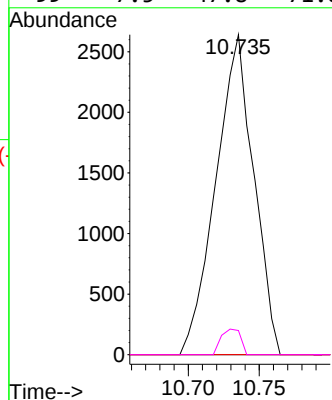
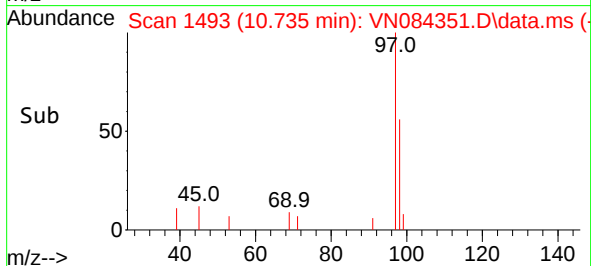


#50
1,1,2-Trichloroethane
Concen: 2.650 ug/l
RT: 10.735 min Scan# 1475
Delta R.T. -0.282 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :

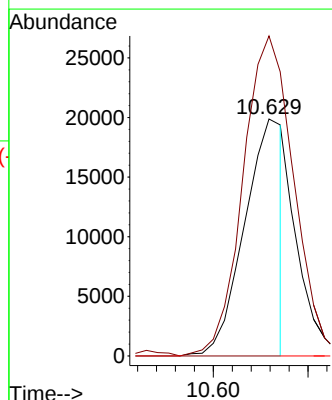
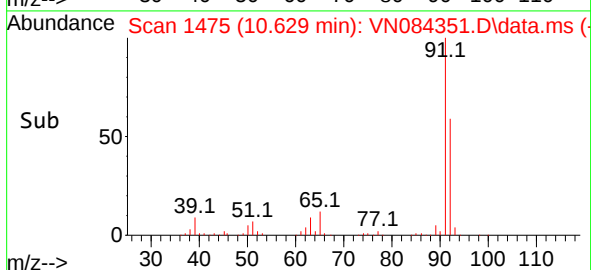
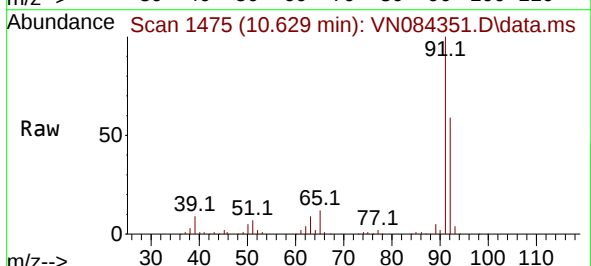


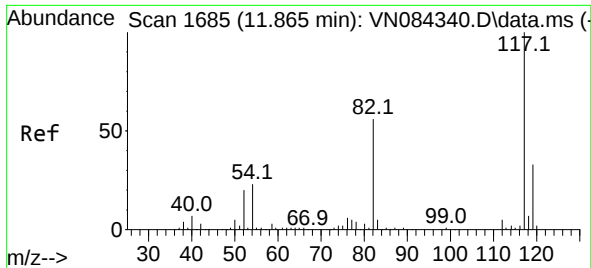
Tgt Ion: 97 Resp: 4907
Ion Ratio Lower Upper
97 100
83 0.0 67.8 101.8#
85 0.0 44.2 66.2#
99 7.5 47.8 71.8#



#55
2-Chloroethyl vinyl ether
Concen: 20.327 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.471 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion: 63 Resp: 28194
Ion Ratio Lower Upper
63 100
65 136.1 25.6 38.4#
106 0.0 21.6 32.4#

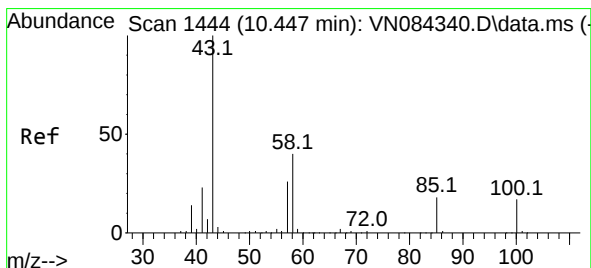
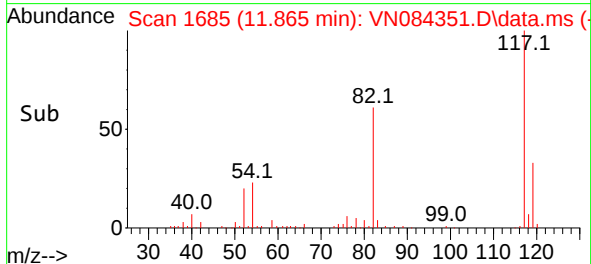
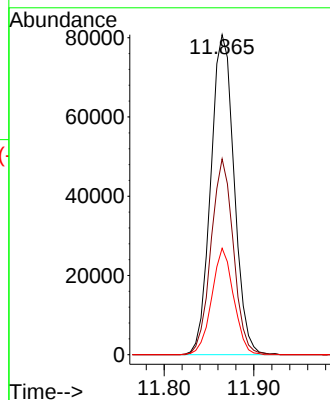
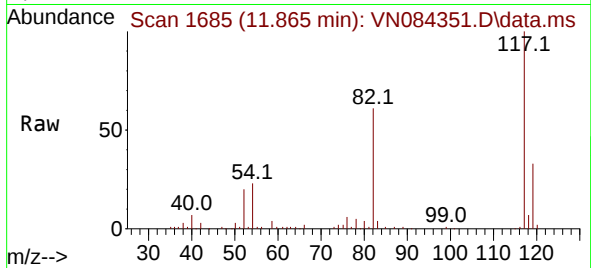




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

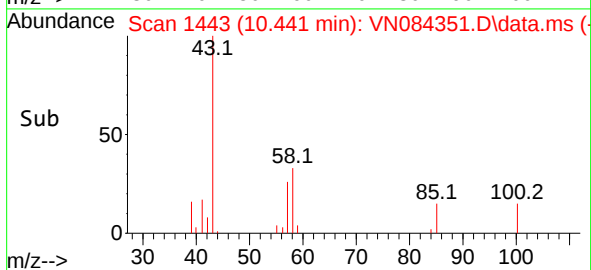
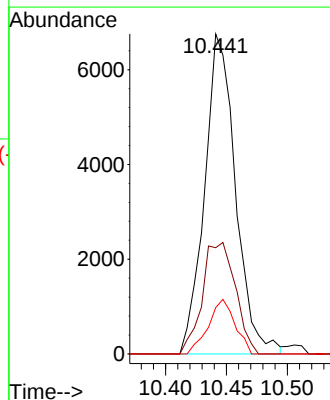
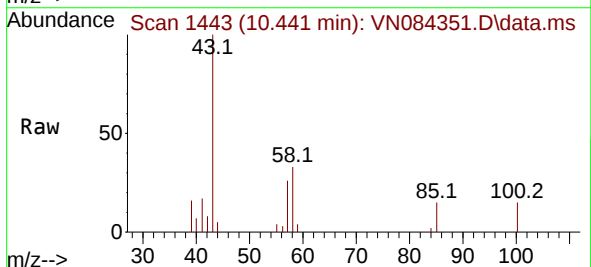
Instrument :
MSVOA_N
ClientSampleId :

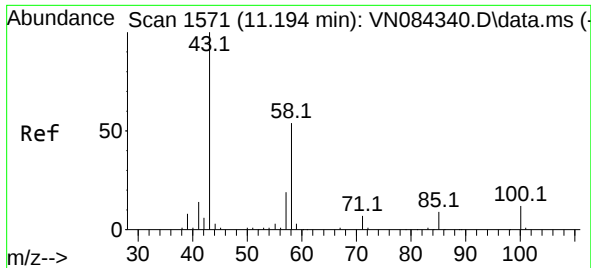
Tgt Ion:117 Resp: 146077
Ion Ratio Lower Upper
117 100
82 58.7 46.2 69.4
119 31.2 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 4.388 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

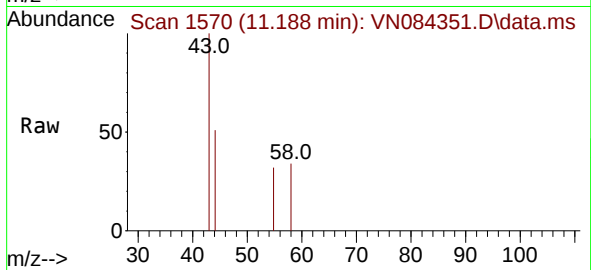
Tgt Ion: 43 Resp: 11940
Ion Ratio Lower Upper
43 100
58 37.2 31.9 47.9
85 14.6 14.6 22.0



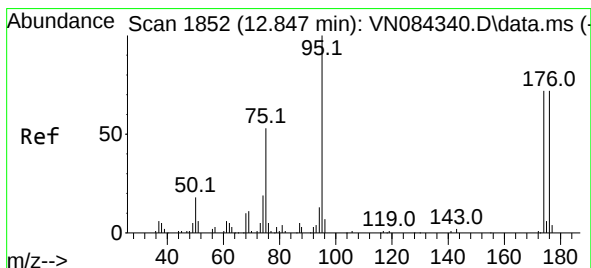
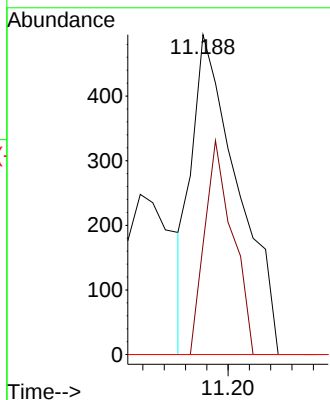
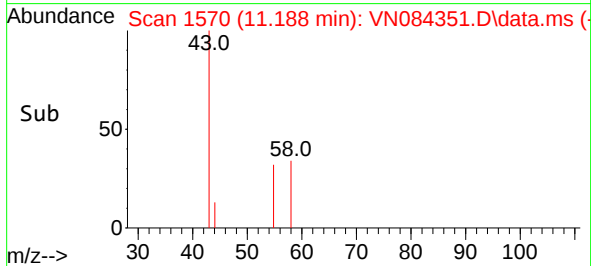


#59
2-Hexanone
Concen: 0.366 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :

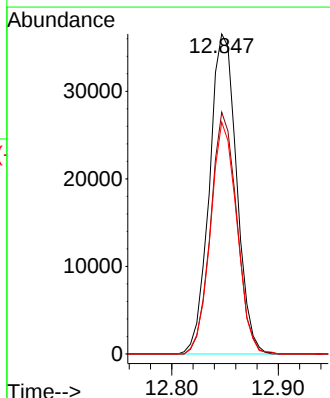
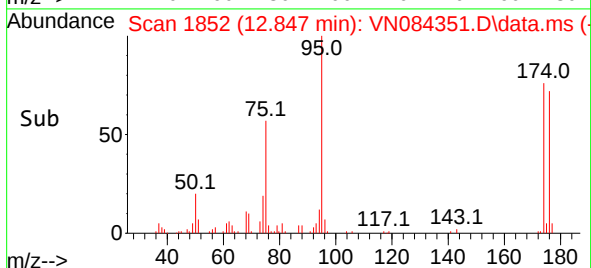
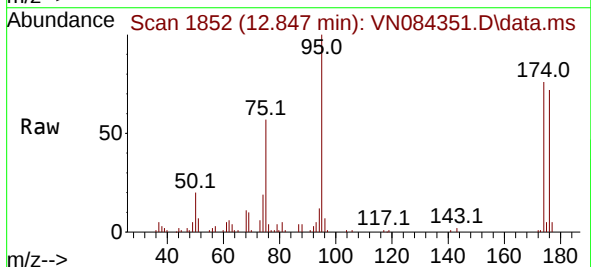


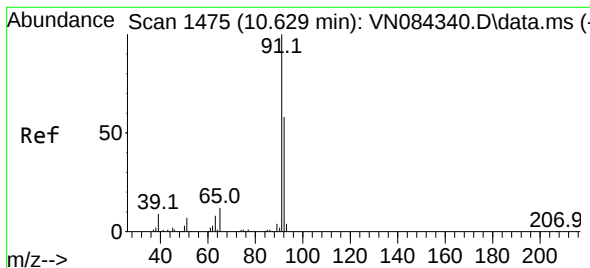
Tgt Ion: 43 Resp: 740
Ion Ratio Lower Upper
43 100
58 40.9 44.0 66.0#
57 0.0 15.4 23.2#



#60
4-Bromofluorobenzene
Concen: 26.862 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion: 95 Resp: 64761
Ion Ratio Lower Upper
95 100
174 72.6 58.2 87.2
176 70.1 56.4 84.6





#62

Toluene

Concen: 49.012 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Instrument :

MSVOA_N

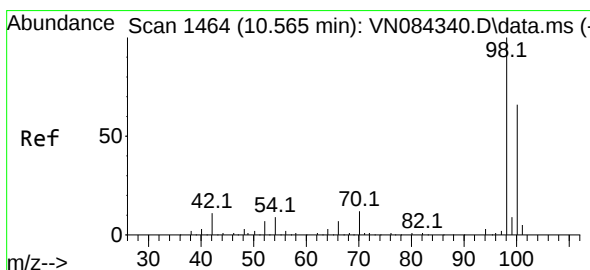
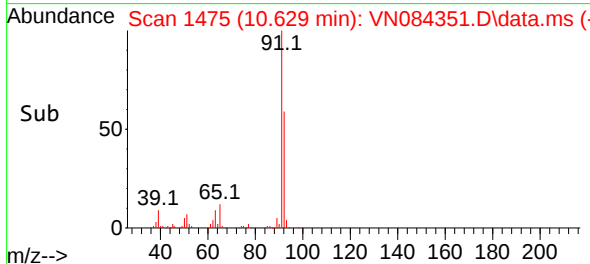
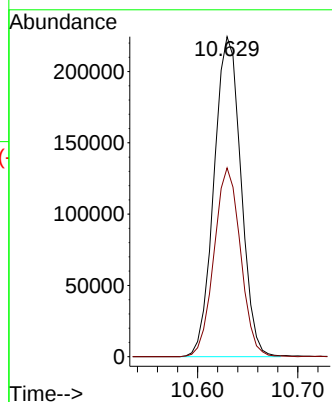
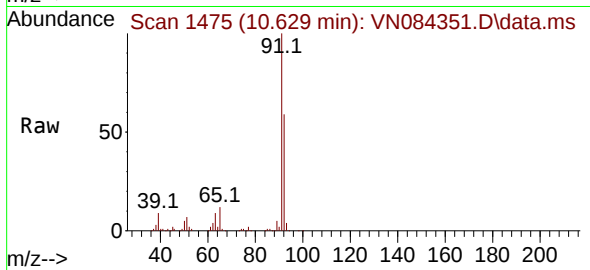
ClientSampleId :

Tgt Ion: 91 Resp: 419130

Ion Ratio Lower Upper

91 100

92 58.0 47.2 70.8



#63

Toluene-d8

Concen: 29.230 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084351.D

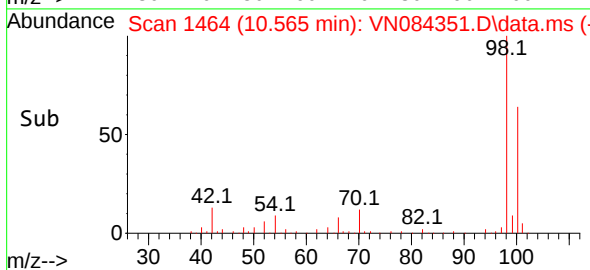
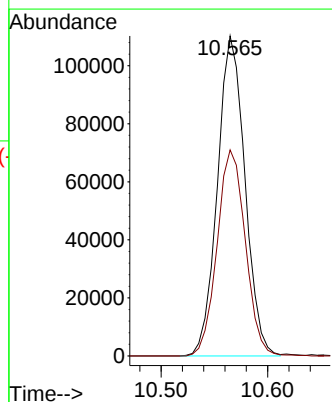
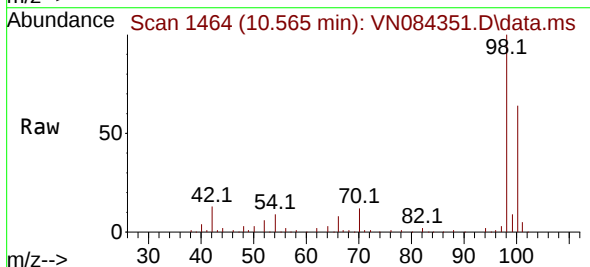
Acq: 08 Oct 2024 16:05

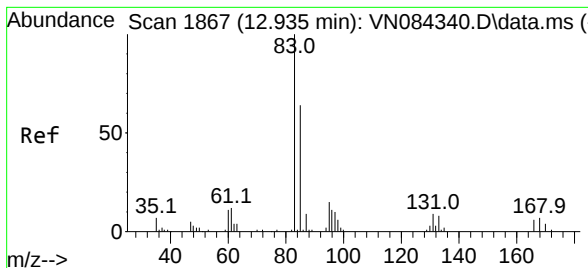
Tgt Ion: 98 Resp: 197805

Ion Ratio Lower Upper

98 100

100 66.1 52.5 78.7

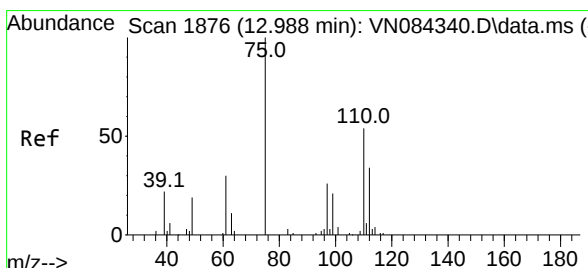
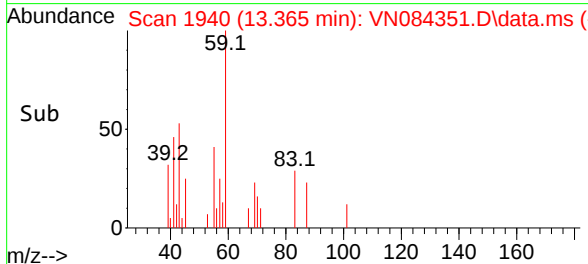
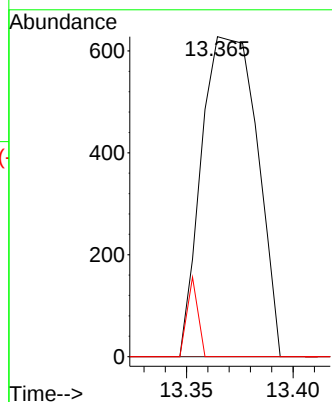
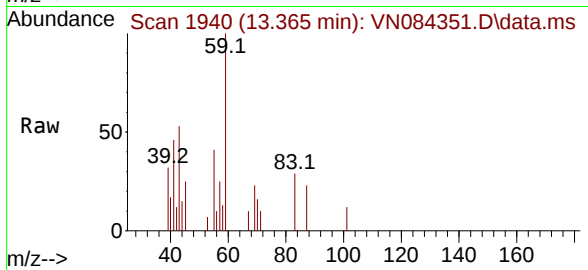




#71
1,1,2,2-Tetrachloroethane
Concen: 0.426 ug/l
RT: 13.365 min Scan# 1142
Delta R.T. 0.429 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

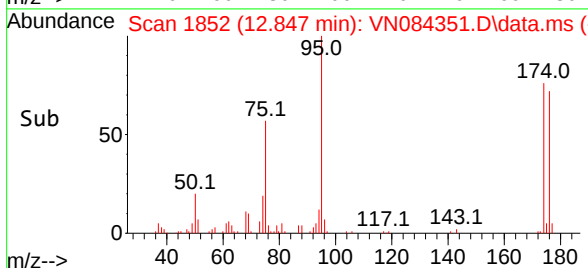
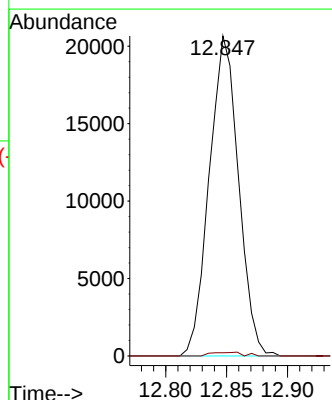
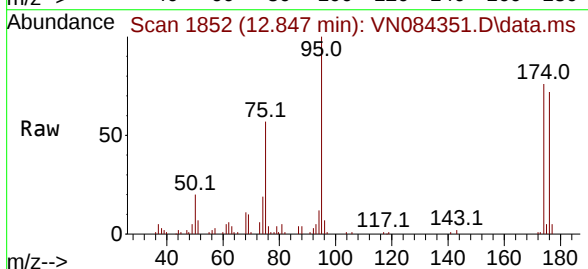
Instrument :
MSVOA_N
ClientSampleId :

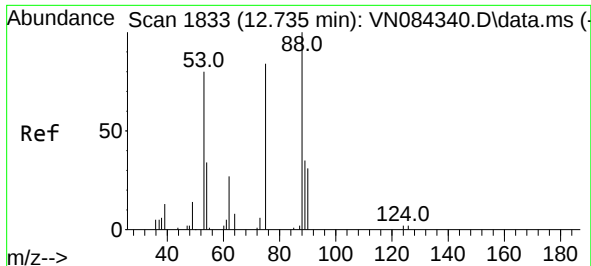
Tgt Ion: 83 Resp: 1142
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 0.0 32.0 96.2#



#72
1,2,3-Trichloropropane
Concen: 15.061 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion: 75 Resp: 34607
Ion Ratio Lower Upper
75 100
77 0.6 0.0 414.0





#77

t-1,4-Dichloro-2-butene

Concen: 35.245 ug/l

RT: 12.847 min Scan# 1833

Delta R.T. 0.112 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

Instrument :

MSVOA_N

ClientSampleId :

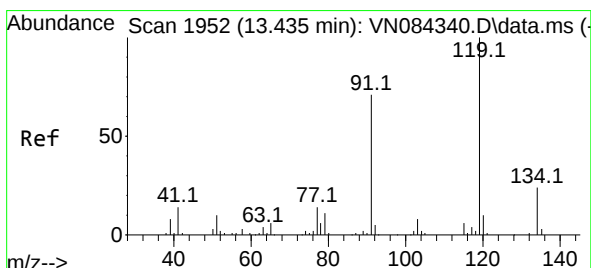
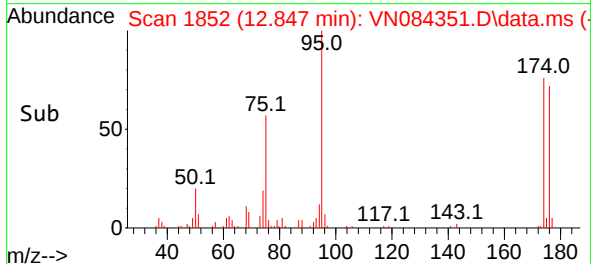
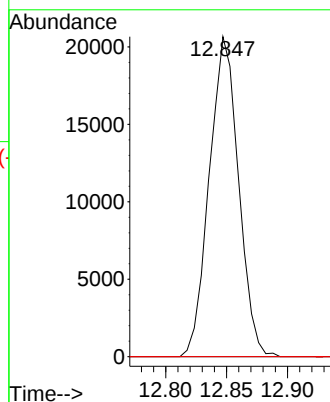
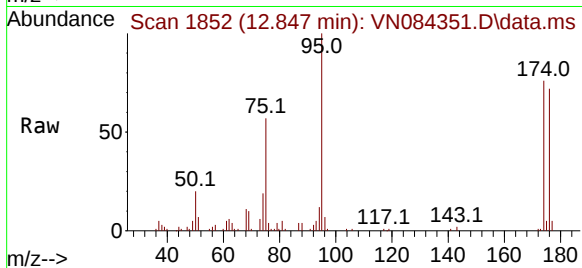
Tgt Ion: 75 Resp: 34607

Ion Ratio Lower Upper

75 100

53 0.0 47.3 142.0#

89 0.0 22.9 68.8#



#79

tert-butylbenzene

Concen: 1.343 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN084351.D

Acq: 08 Oct 2024 16:05

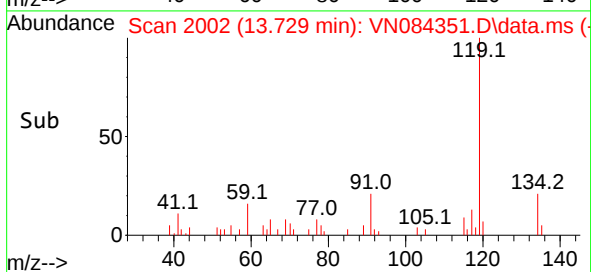
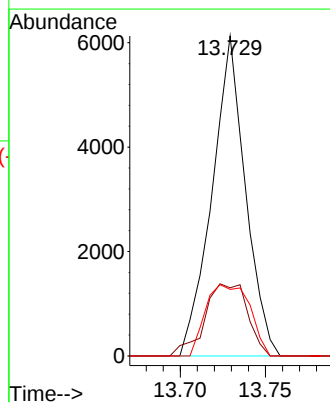
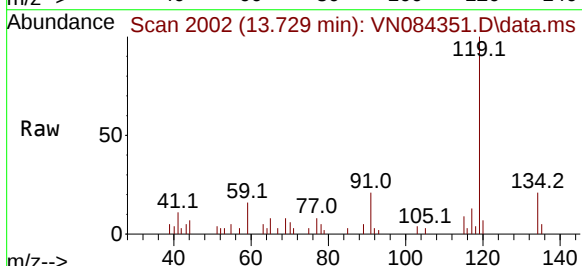
Tgt Ion: 119 Resp: 8370

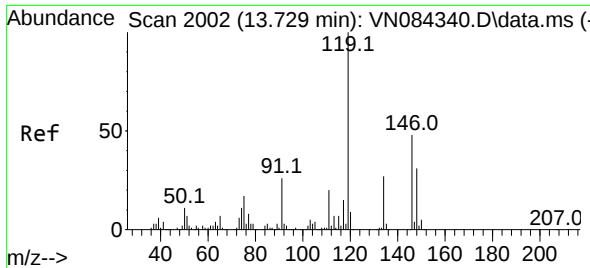
Ion Ratio Lower Upper

119 100

91 28.9 0.0 138.0

134 29.4 0.0 48.8

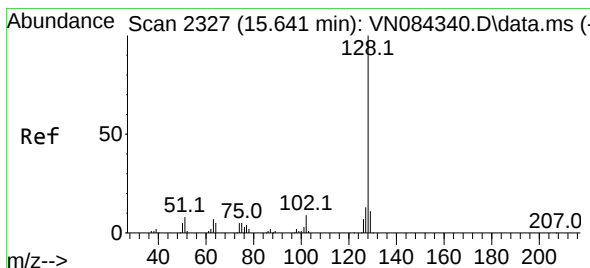
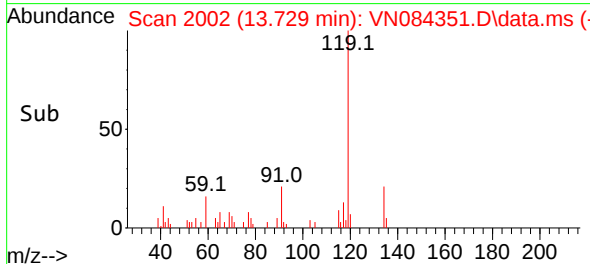
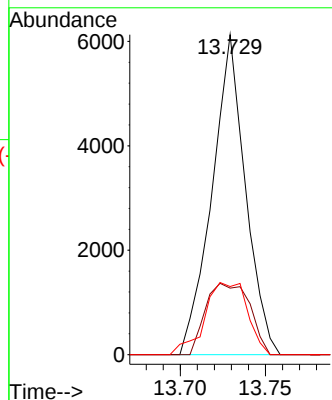
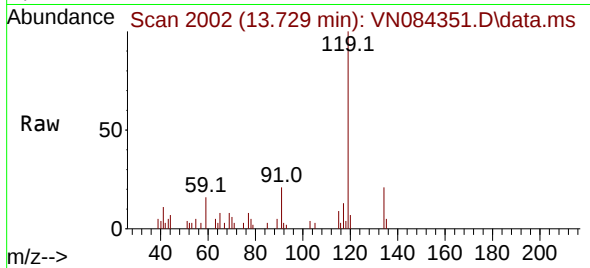




#82
p-Isopropyltoluene
Concen: 1.159 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:119 Resp: 8370
Ion Ratio Lower Upper
119 100
134 29.4 0.0 50.2
91 28.9 0.0 50.6



#91
Naphthalene
Concen: 0.952 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN084351.D
Acq: 08 Oct 2024 16:05

Tgt Ion:128 Resp: 6334
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 8.4 8.8 13.2#

