

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
 Data File : VN085423.D
 Acq On : 10 Jan 2025 13:20
 Operator : JC\MD
 Sample : Q1038-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 10 22:44:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

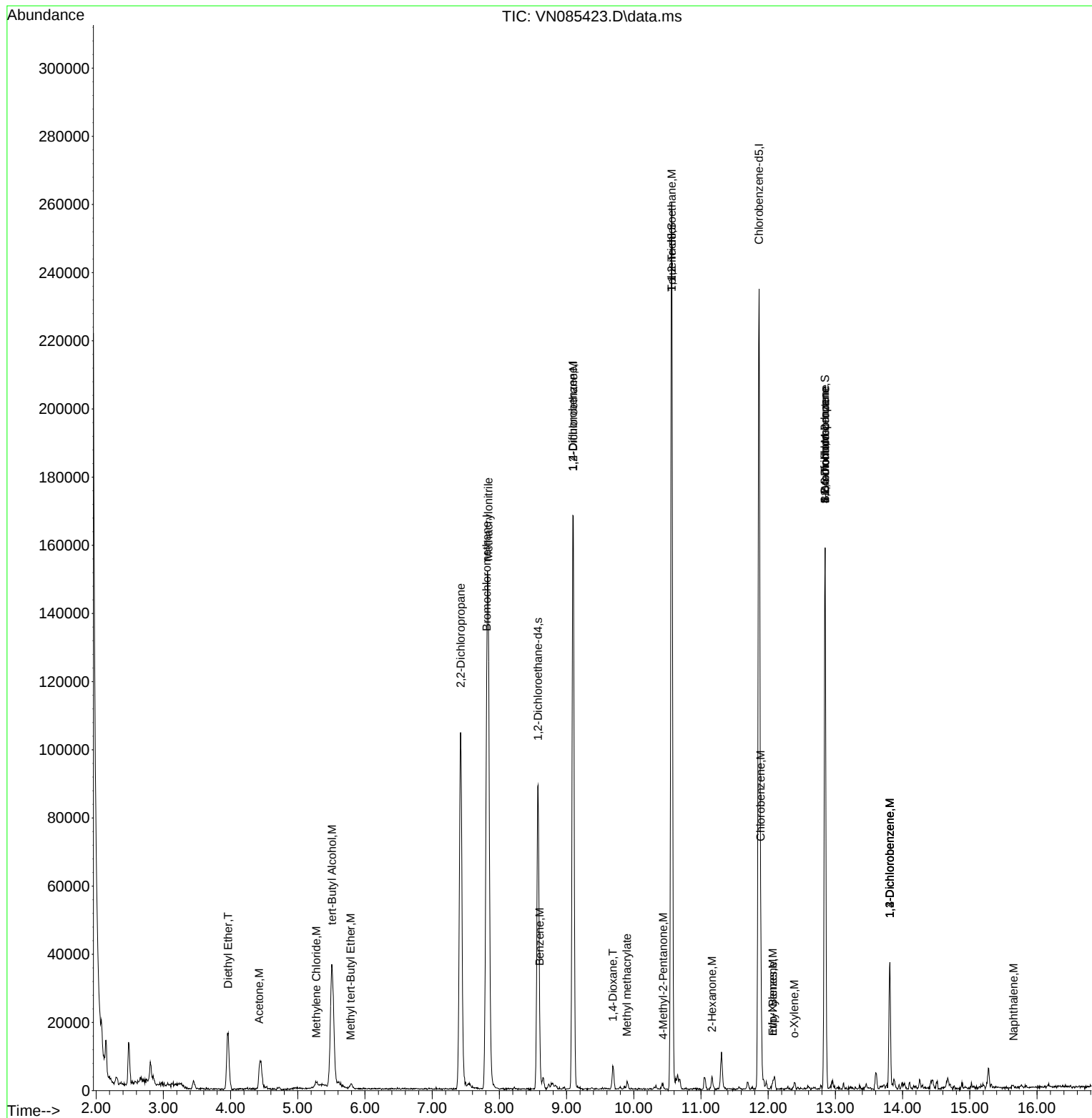
Internal Standards						
1) Bromochloromethane	7.812	128	27829	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	144269	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	129874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73586	30.059	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.200%
60) 4-Bromofluorobenzene	12.847	95	52240	24.832	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.767%
63) Toluene-d8	10.565	98	173036	27.285	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	90.967%#
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.965	74	9792	8.676	ug/l	93
15) Acetone	4.424	58	240	0.958	ug/l #	1
18) Methylene Chloride	5.277	84	612	0.299	ug/l #	34
23) tert-Butyl Alcohol	5.512	59	60065	183.539	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	1287	0.228	ug/l	91
31) 2,2-Dichloropropane	7.424	77	6494	2.046	ug/l #	55
34) Benzene	8.600	78	2927	0.370	ug/l #	1
35) Methacrylonitrile	7.835	41	53581	36.608	ug/l #	52
36) 1,2-Dichloroethane	9.100	62	5992	2.093	ug/l #	77
45) 1,4-Dioxane	9.688	88	4298	121.655	ug/l #	96
46) Methyl methacrylate	9.900	41	849	0.403	ug/l #	42
50) 1,1,2-Trichloroethane	10.565	97	6098	3.320	ug/l #	1
56) Bromoform	12.847	173	464	0.330	ug/l #	1
58) 4-Methyl-2-Pentanone	10.435	43	792	0.301	ug/l #	46
59) 2-Hexanone	11.165	43	3136	1.640	ug/l #	36
64) Chlorobenzene	11.888	112	20596	4.280	ug/l	98
66) Ethyl Benzene	12.070	91	2106	0.251	ug/l	92
67) m/p-Xylenes	12.070	106	861	0.273	ug/l	77
68) o-Xylene	12.388	106	777	0.259	ug/l	71
72) 1,2,3-Trichloropropane	12.847	75	29782	13.097	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	29782	32.045	ug/l #	6
83) 1,3-Dichlorobenzene	13.812	146	15081	4.345	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	15081	4.491	ug/l	94
87) 1,2-Dichlorobenzene	13.812	146	15081	4.574	ug/l	93
91) Naphthalene	15.653	128	1147	0.229	ug/l #	69

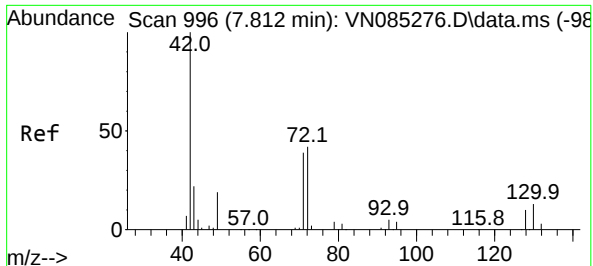
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011025\
Data File : VN085423.D
Acq On : 10 Jan 2025 13:20
Operator : JC\MD
Sample : Q1038-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

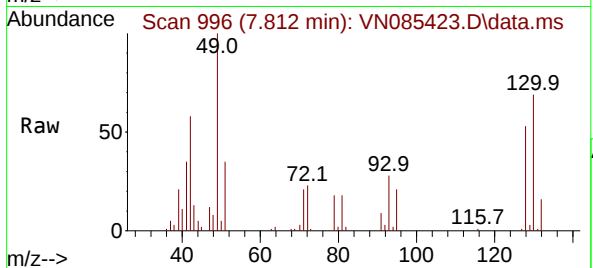
Quant Time: Jan 10 22:44:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



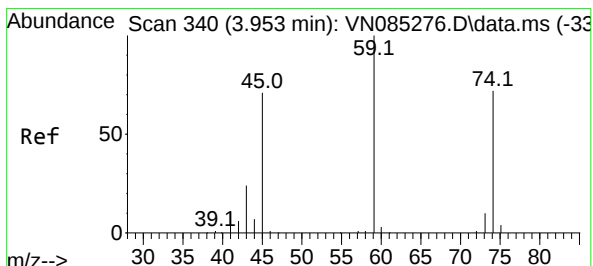
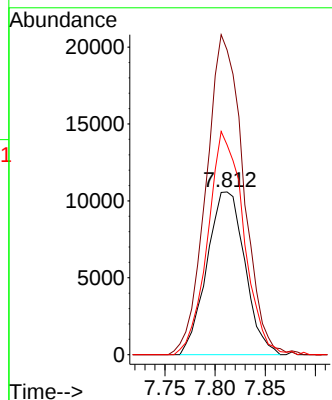
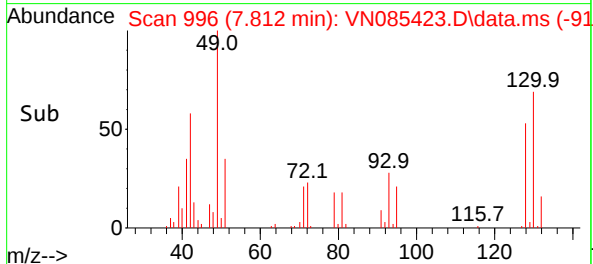


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Instrument :
MSVOA_N
ClientSampleId :

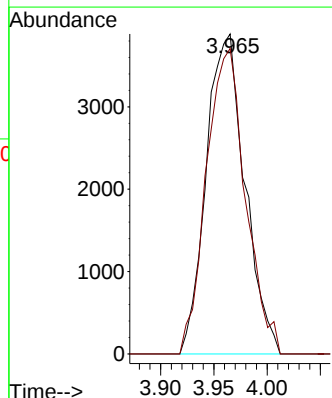
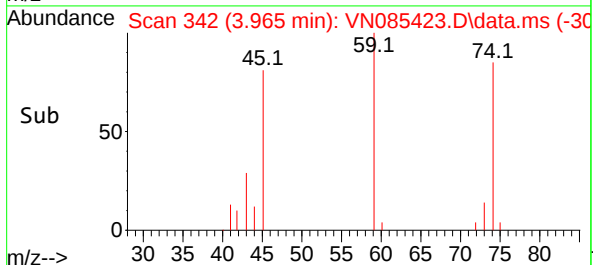
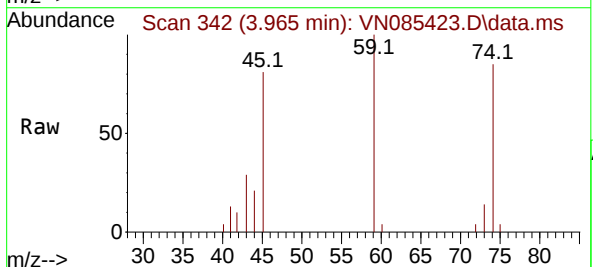


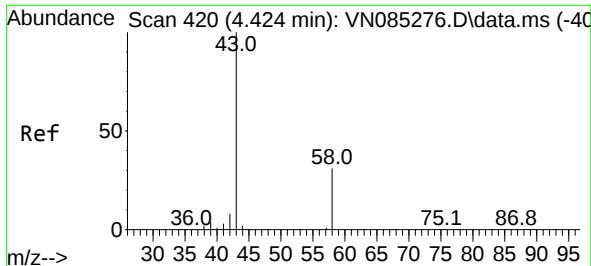
Tgt Ion:128 Resp: 27829
Ion Ratio Lower Upper
128 100
49 192.4 0.0 497.8
130 129.8 0.0 328.5



#8
Diethyl Ether
Concen: 8.676 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 74 Resp: 9792
Ion Ratio Lower Upper
74 100
45 96.8 20.8 187.6

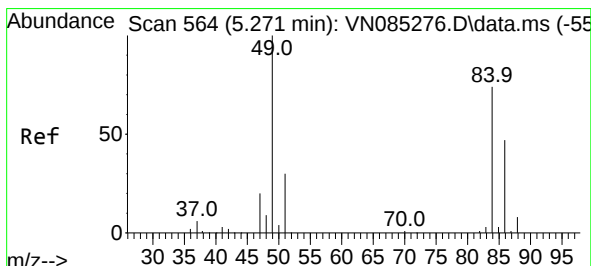
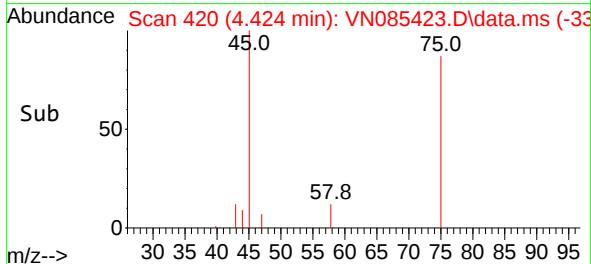
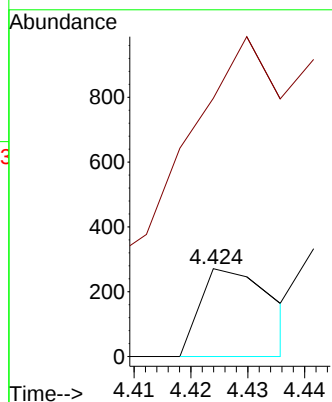
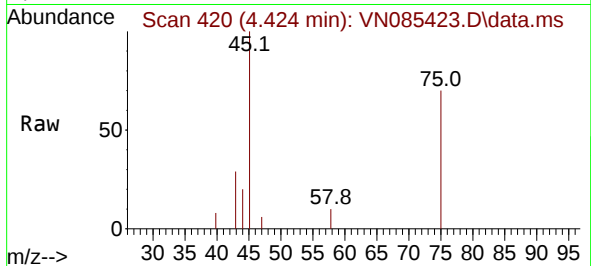




#15
Acetone
Concen: 0.958 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

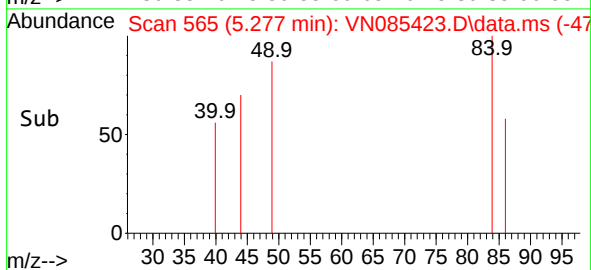
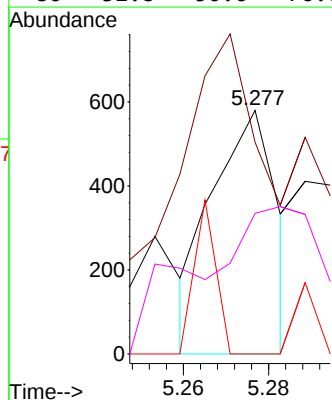
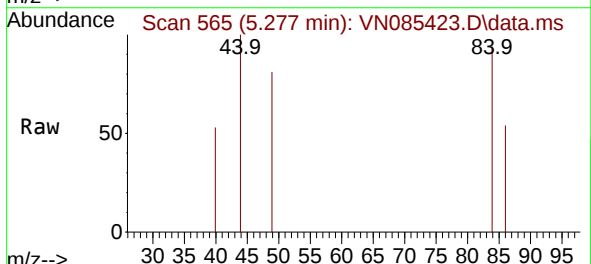
Instrument :
MSVOA_N
ClientSampleId :

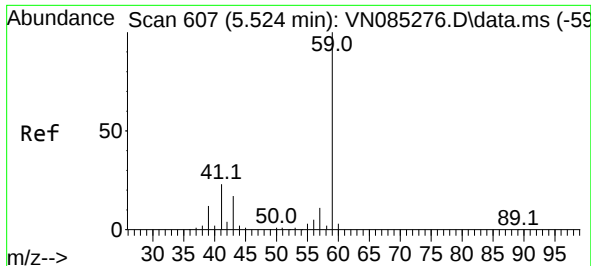
Tgt Ion: 58 Resp: 240
Ion Ratio Lower Upper
58 100
43 56.8 258.8 388.2#



#18
Methylene Chloride
Concen: 0.299 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

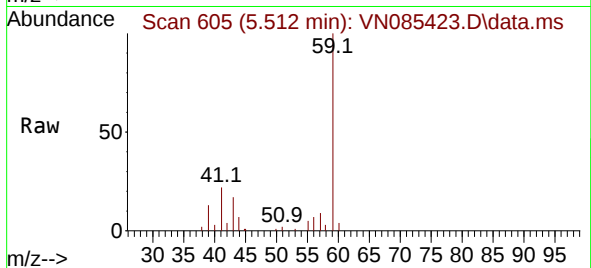
Tgt Ion: 84 Resp: 612
Ion Ratio Lower Upper
84 100
49 37.5 104.9 157.3#
51 0.0 30.2 45.4#
86 32.8 50.6 76.0#



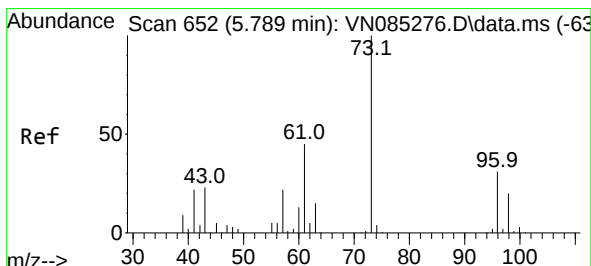
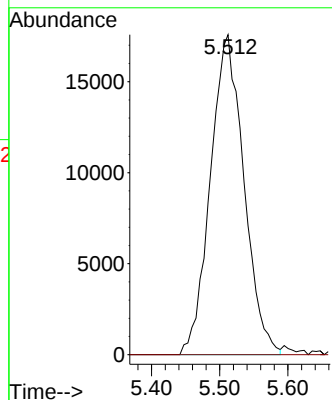
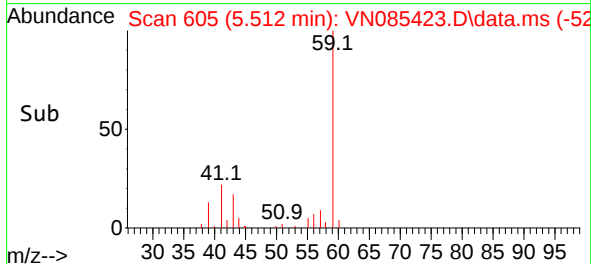


#23
 tert-Butyl Alcohol
 Concen: 183.539 ug/l
 RT: 5.512 min Scan# 607
 Delta R.T. -0.006 min
 Lab File: VN085423.D
 Acq: 10 Jan 2025 13:20

Instrument :
 MSVOA_N
 ClientSampleId :

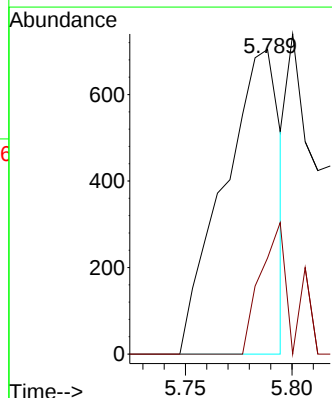
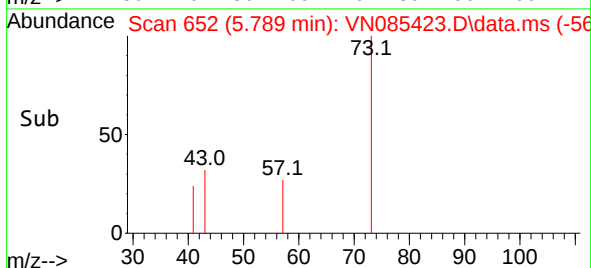
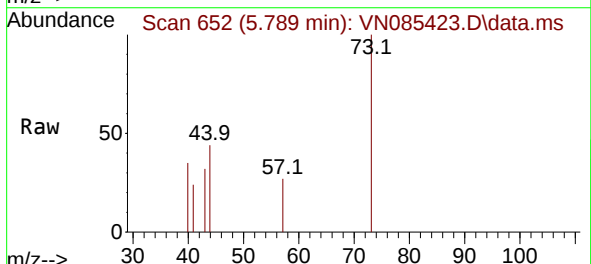


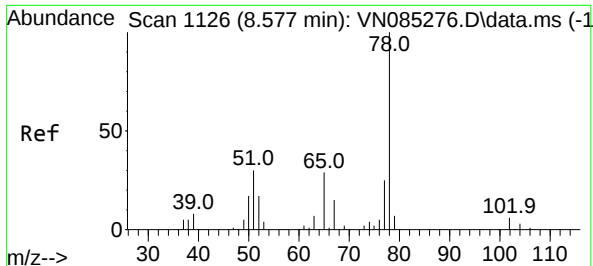
Tgt Ion: 59 Resp: 60065
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#24
 Methyl tert-Butyl Ether
 Concen: 0.228 ug/l
 RT: 5.789 min Scan# 652
 Delta R.T. -0.012 min
 Lab File: VN085423.D
 Acq: 10 Jan 2025 13:20

Tgt Ion: 73 Resp: 1287
 Ion Ratio Lower Upper
 73 100
 43 18.7 18.6 27.8





#27

1,2-Dichloroethane-d4

Concen: 30.059 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

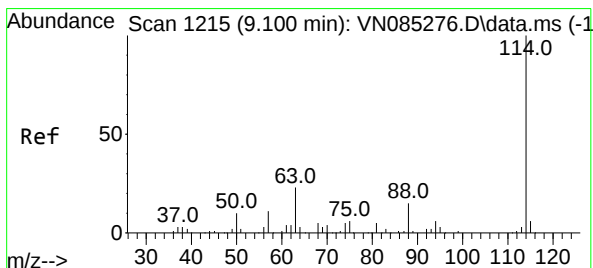
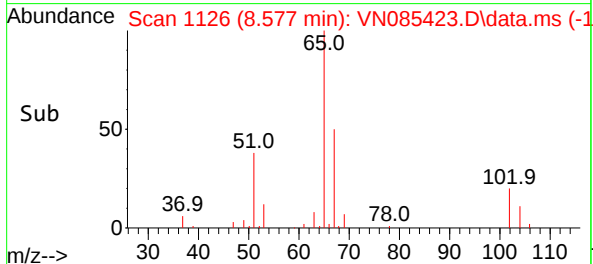
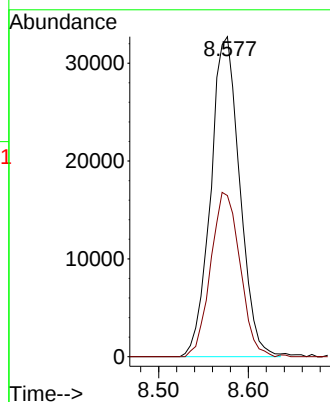
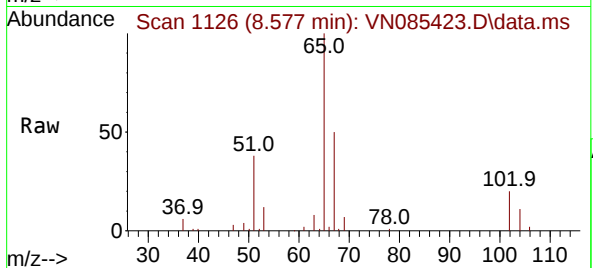
ClientSampleId :

Tgt Ion: 65 Resp: 73586

Ion Ratio Lower Upper

65 100

67 51.8 42.0 63.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

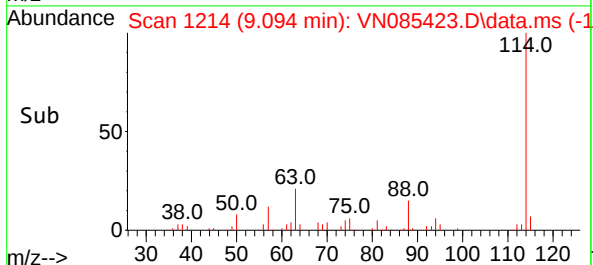
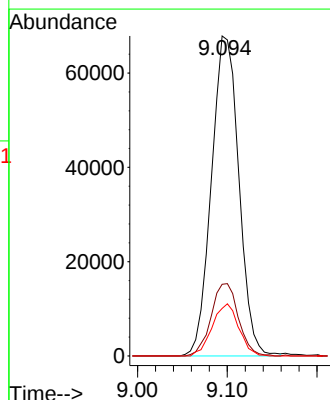
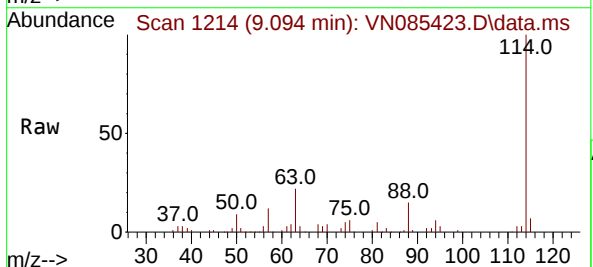
Tgt Ion: 114 Resp: 144269

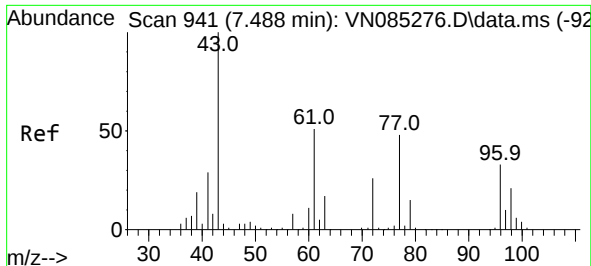
Ion Ratio Lower Upper

114 100

63 22.4 18.0 27.0

88 15.7 12.9 19.3





#31

2,2-Dichloropropane

Concen: 2.046 ug/l

RT: 7.424 min Scan# 91

Delta R.T. -0.065 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

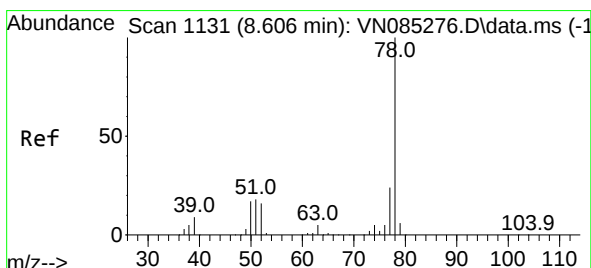
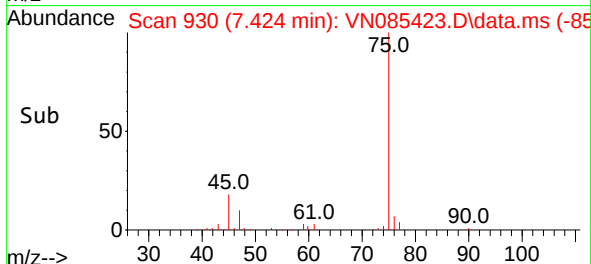
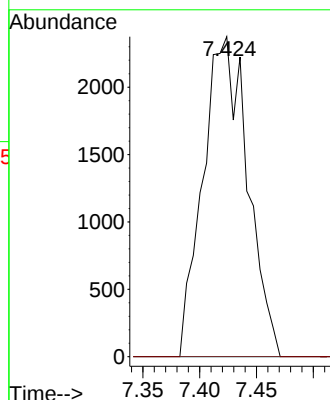
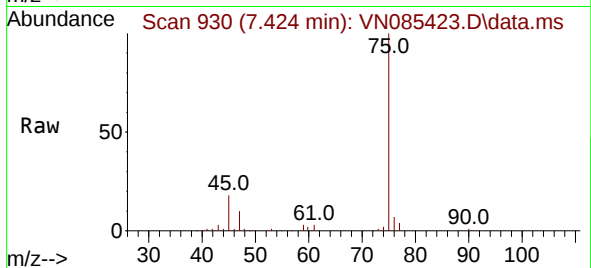
ClientSampleId :

Tgt Ion: 77 Resp: 6494

Ion Ratio Lower Upper

77 100

97 0.0 16.9 25.3#



#34

Benzene

Concen: 0.370 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

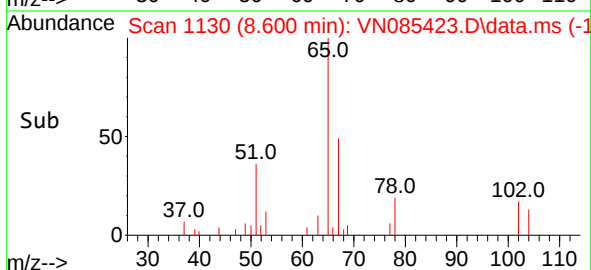
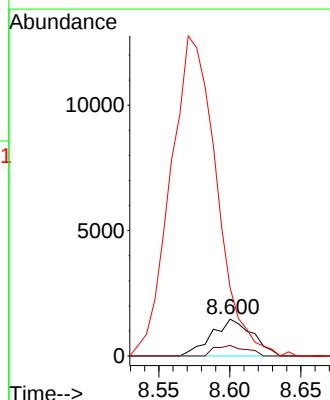
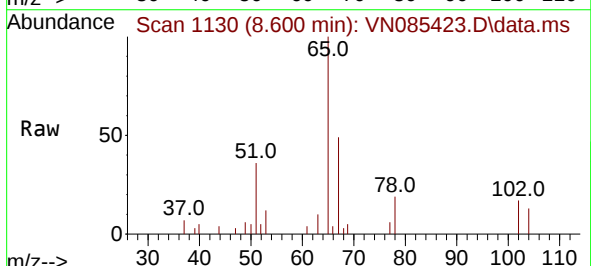
Tgt Ion: 78 Resp: 2927

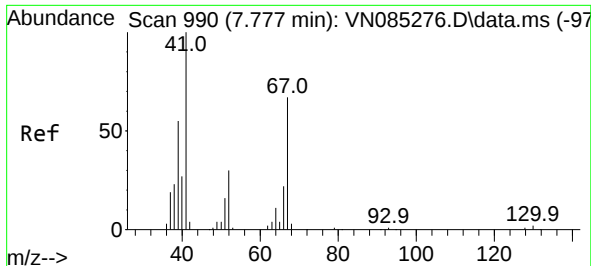
Ion Ratio Lower Upper

78 100

77 28.5 19.3 28.9

51 185.3 14.6 21.8#

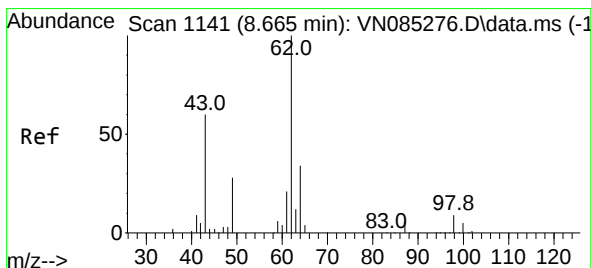
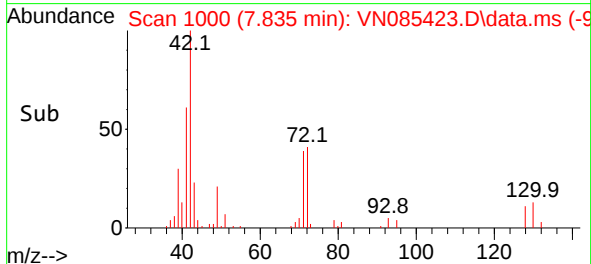
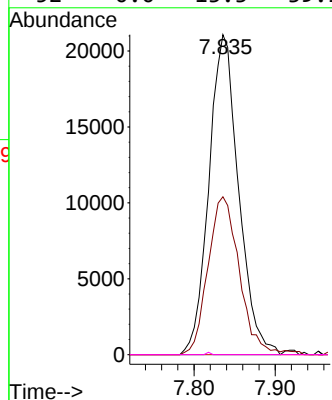
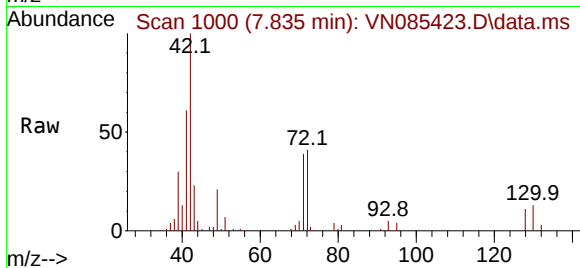




#35
Methacrylonitrile
Concen: 36.608 ug/l
RT: 7.835 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

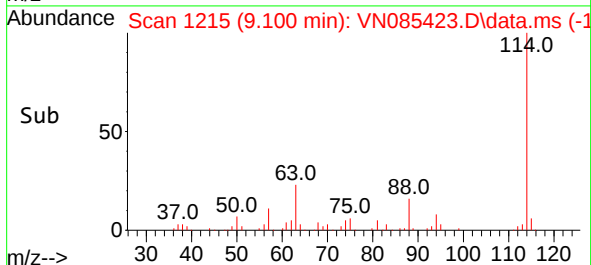
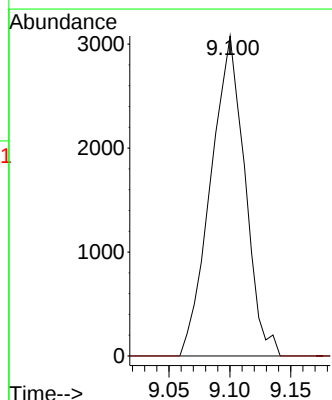
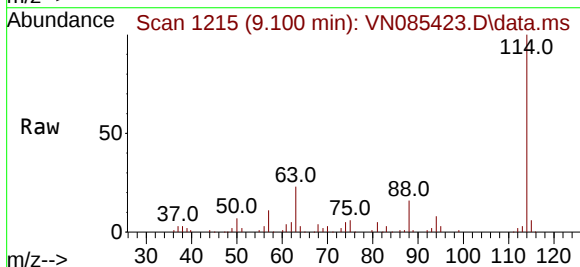
Instrument :
MSVOA_N
ClientSampleId :

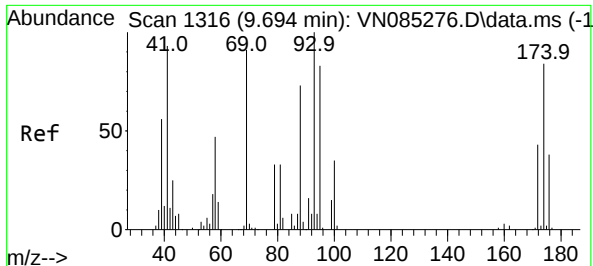
Tgt Ion: 41	Resp: 53581
Ion Ratio	Lower Upper
41 100	
39 49.4	26.7 80.0
67 0.0	32.5 97.5#
52 0.0	13.3 39.9#



#36
1,2-Dichloroethane
Concen: 2.093 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.435 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 62	Resp: 5992
Ion Ratio	Lower Upper
62 100	
98 0.0	6.6 10.0#





#45

1,4-Dioxane

Concen: 121.655 ug/l

RT: 9.688 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

ClientSampleId :

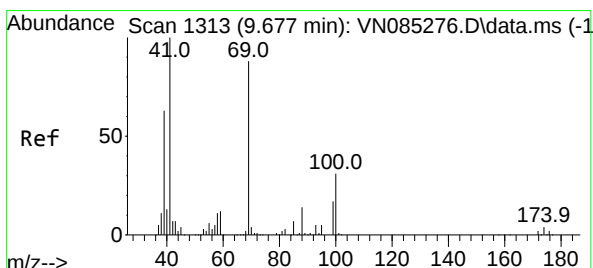
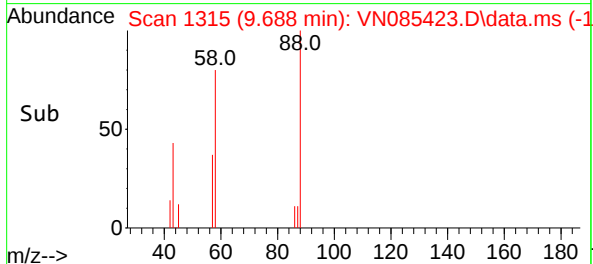
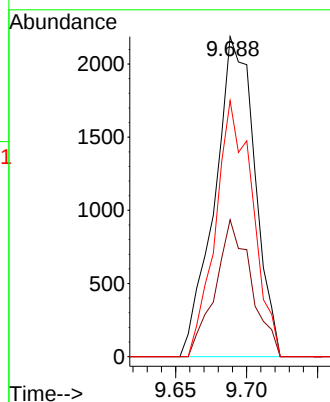
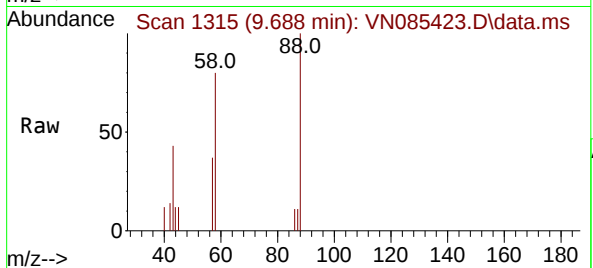
Tgt Ion: 88 Resp: 4298

Ion Ratio Lower Upper

88 100

43 38.3 25.4 38.2#

58 73.7 58.5 87.7



#46

Methyl methacrylate

Concen: 0.403 ug/l

RT: 9.900 min Scan# 1351

Delta R.T. 0.218 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

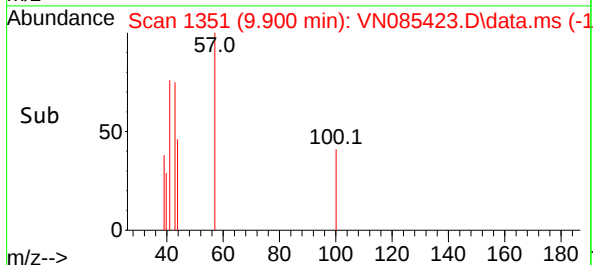
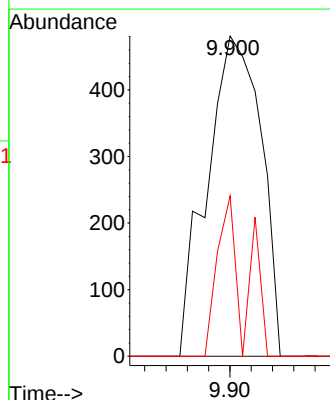
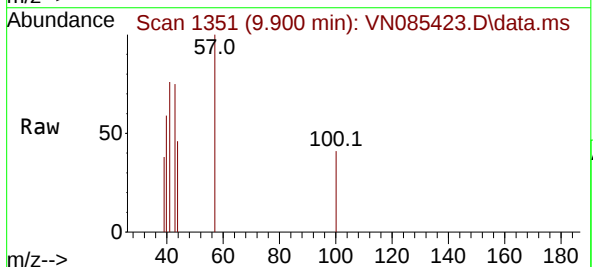
Tgt Ion: 41 Resp: 849

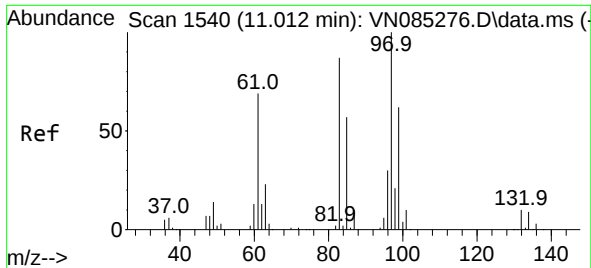
Ion Ratio Lower Upper

41 100

69 0.0 39.9 119.6#

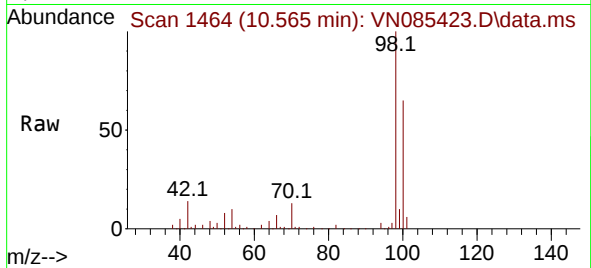
39 50.1 31.6 95.0



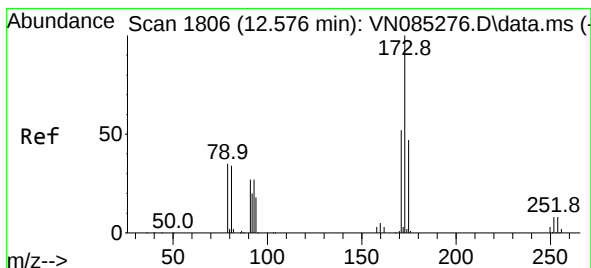
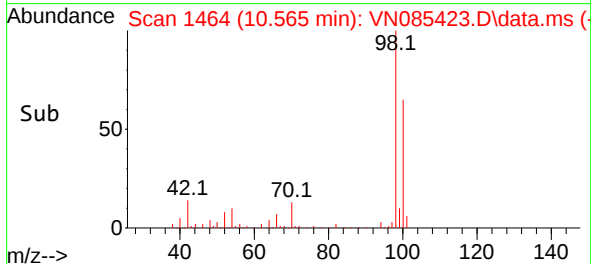
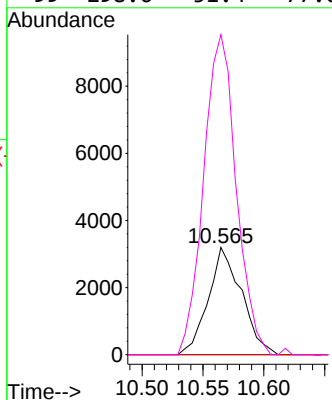


#50
1,1,2-Trichloroethane
Concen: 3.320 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.447 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Instrument :
MSVOA_N
ClientSampleId :

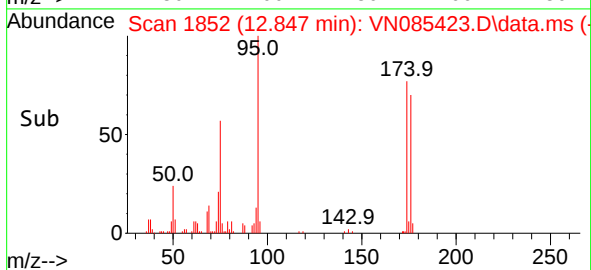
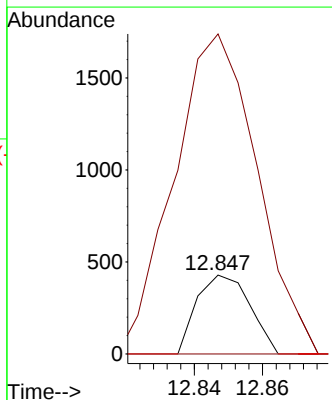
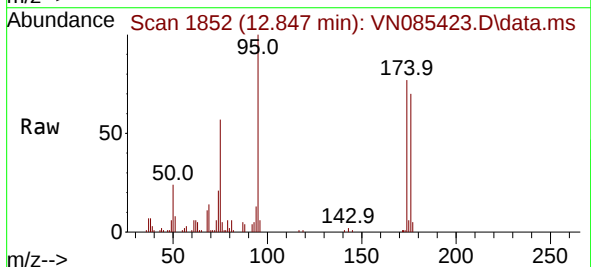


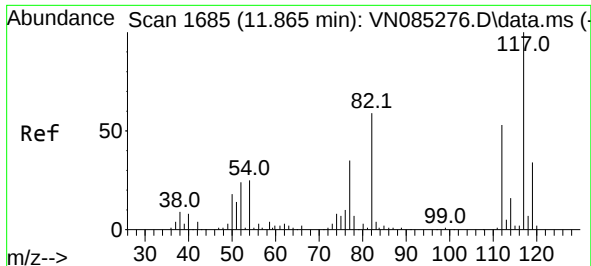
Tgt Ion: 97 Resp: 6098
Ion Ratio Lower Upper
97 100
83 0.0 72.2 108.2#
85 0.0 46.6 70.0#
99 298.6 51.4 77.0#



#56
Bromoform
Concen: 0.330 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion:173 Resp: 464
Ion Ratio Lower Upper
173 100
175 636.9 39.4 59.2#
254 0.0 7.2 10.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 117

Delta R.T. 0.000 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

ClientSampleId :

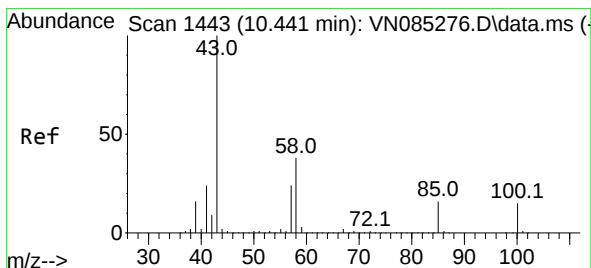
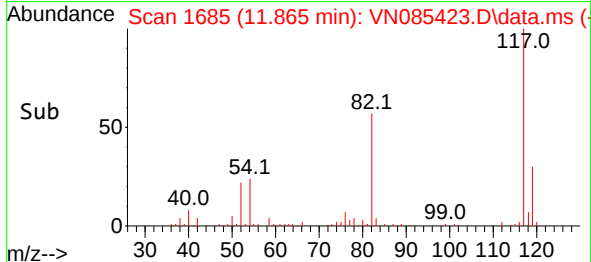
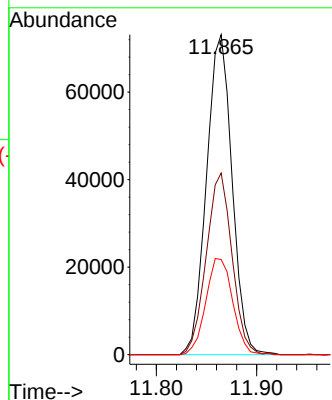
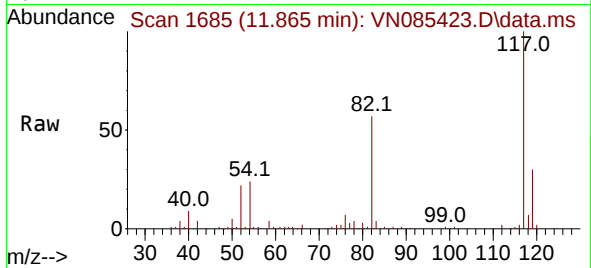
Tgt Ion:117 Resp: 129874

Ion Ratio Lower Upper

117 100

82 57.1 47.4 71.0

119 31.6 25.3 37.9



#58

4-Methyl-2-Pentanone

Concen: 0.301 ug/l

RT: 10.435 min Scan# 1442

Delta R.T. -0.006 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

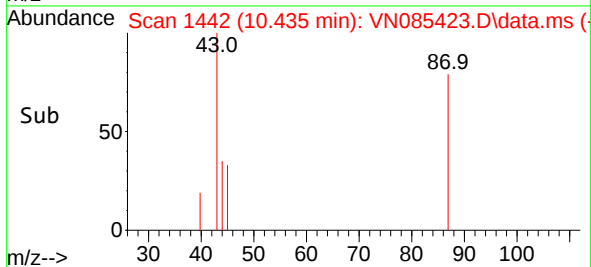
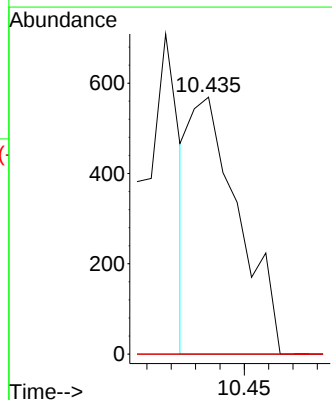
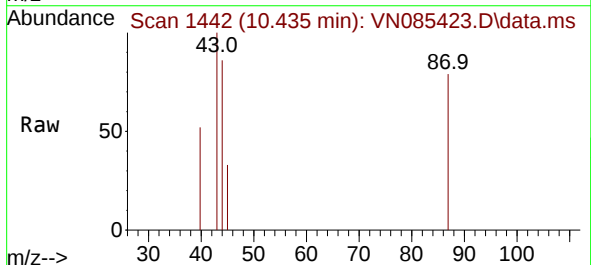
Tgt Ion: 43 Resp: 792

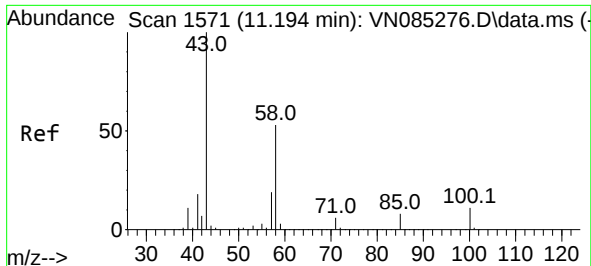
Ion Ratio Lower Upper

43 100

58 0.0 29.2 43.8#

85 0.0 12.8 19.2#

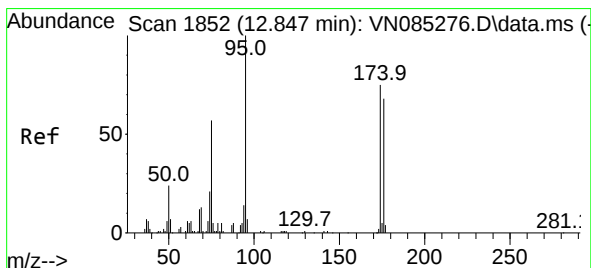
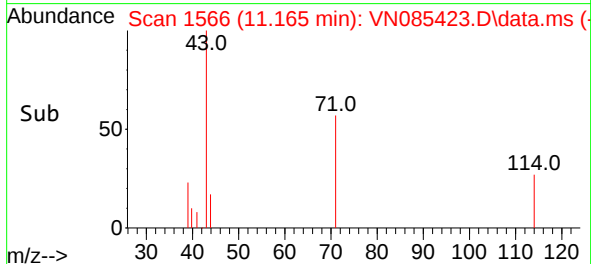
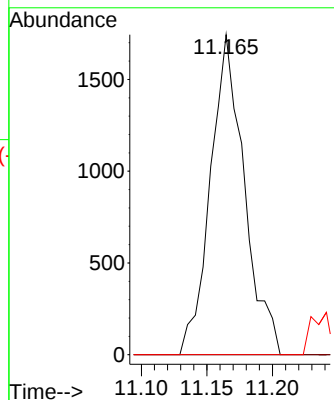
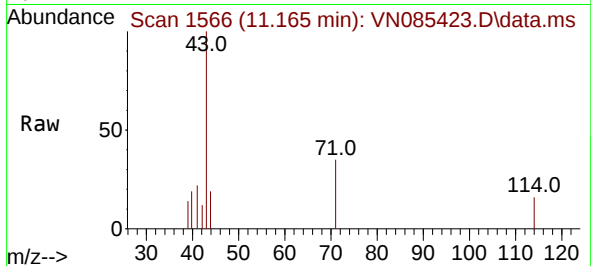




#59
2-Hexanone
Concen: 1.640 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.029 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

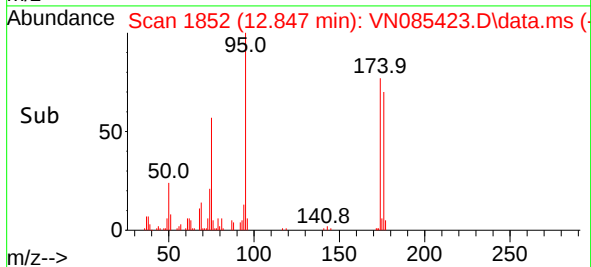
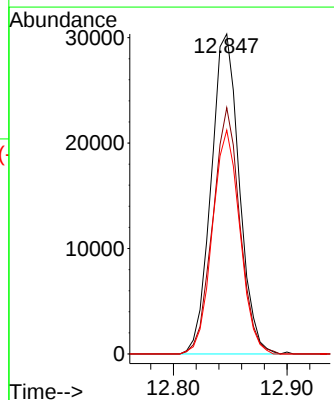
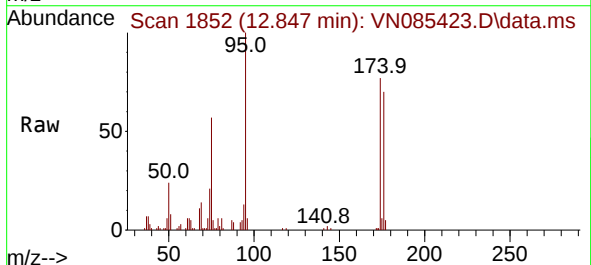
Instrument :
MSVOA_N
ClientSampleId :

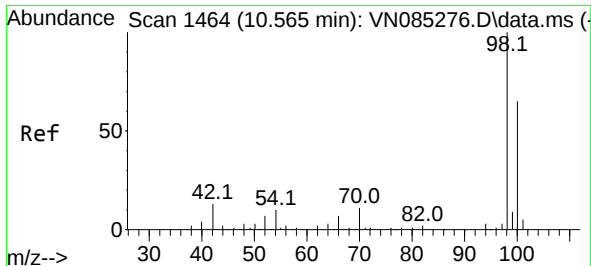
Tgt Ion: 43 Resp: 3136
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
57 0.0 14.2 21.4#



#60
4-Bromofluorobenzene
Concen: 24.832 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 95 Resp: 52240
Ion Ratio Lower Upper
95 100
174 74.3 57.8 86.8
176 68.5 57.1 85.7

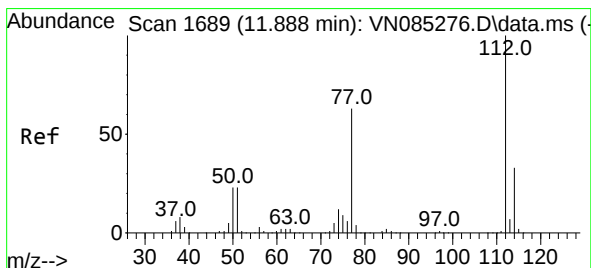
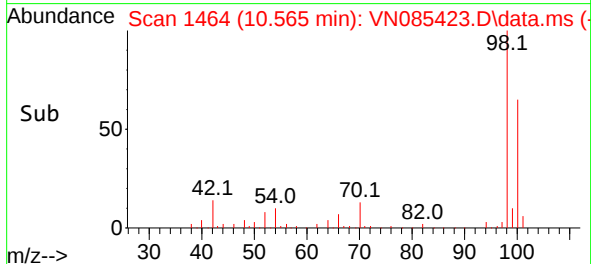
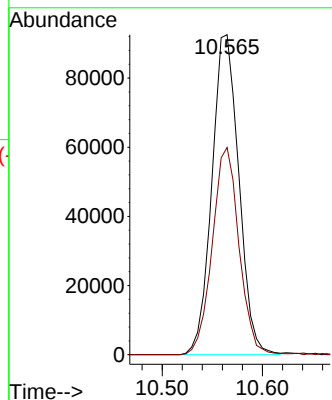
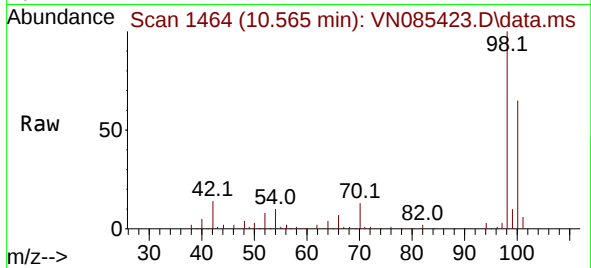




#63
Toluene-d8
Concen: 27.285 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

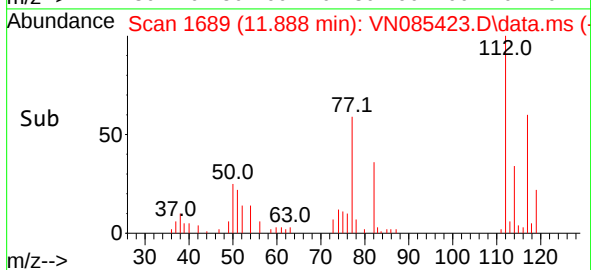
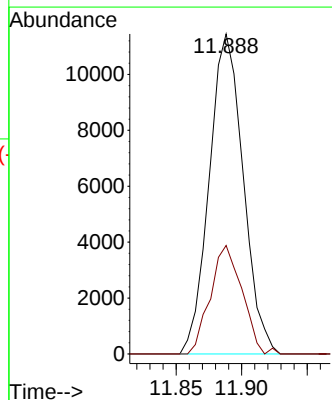
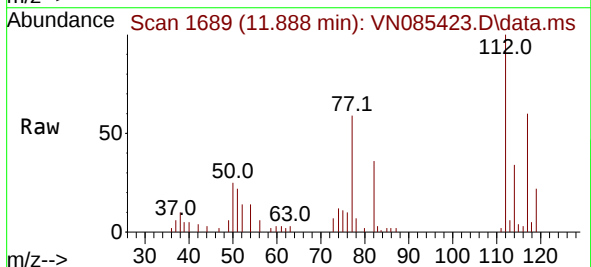
Instrument :
MSVOA_N
ClientSampleId :

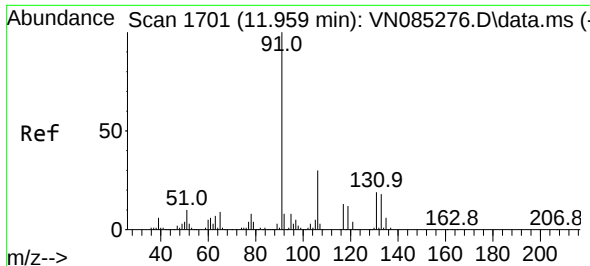
Tgt Ion: 98 Resp: 173036
Ion Ratio Lower Upper
98 100
100 64.2 50.8 76.2



#64
Chlorobenzene
Concen: 4.280 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 112 Resp: 20596
Ion Ratio Lower Upper
112 100
114 33.9 26.4 39.6

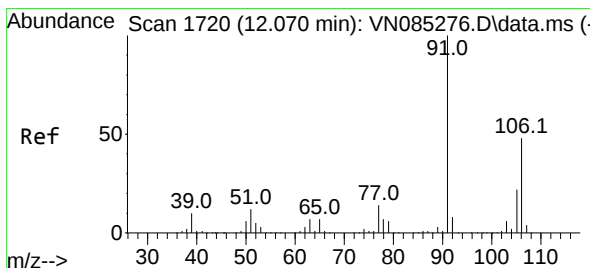
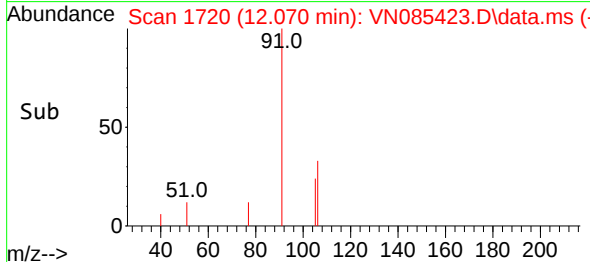
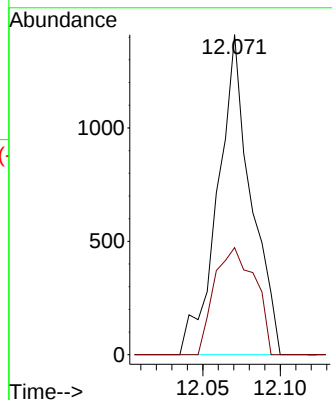
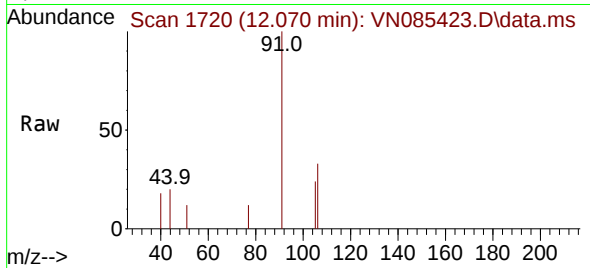




#66
Ethyl Benzene
Concen: 0.251 ug/l
RT: 12.070 min Scan# 1701
Delta R.T. 0.106 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

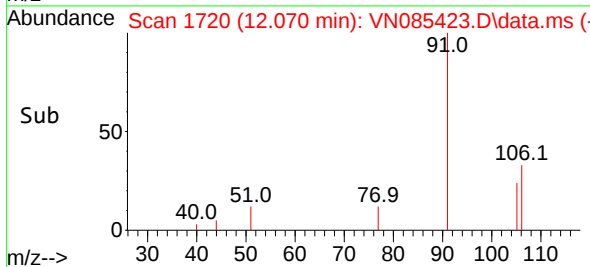
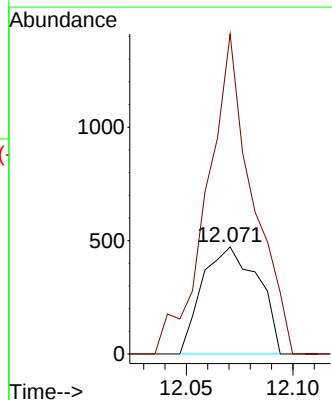
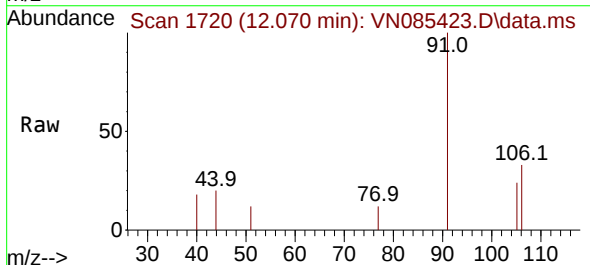
Instrument :
MSVOA_N
ClientSampleId :

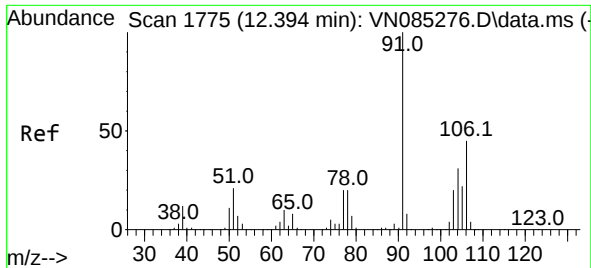
Tgt Ion: 91 Resp: 2106
Ion Ratio Lower Upper
91 100
106 33.5 23.2 34.8



#67
m/p-Xylenes
Concen: 0.273 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 106 Resp: 861
Ion Ratio Lower Upper
106 100
91 244.6 167.0 250.4

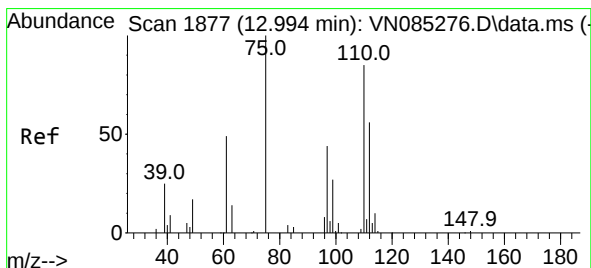
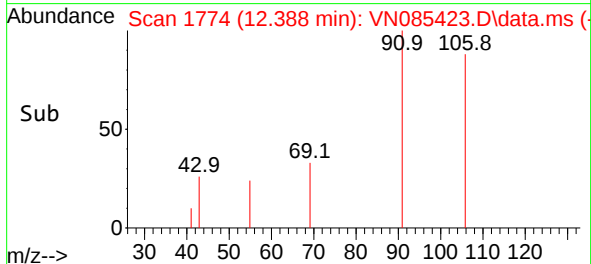
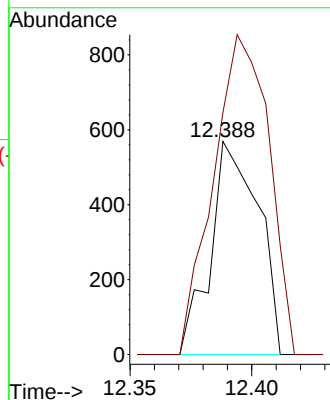
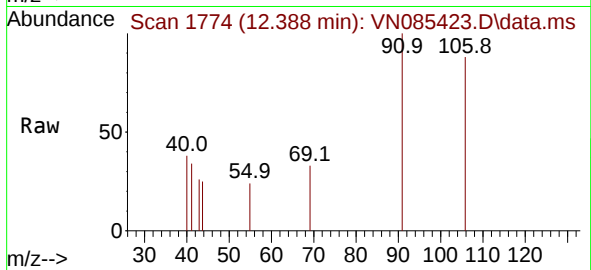




#68
o-Xylene
Concen: 0.259 ug/l
RT: 12.388 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

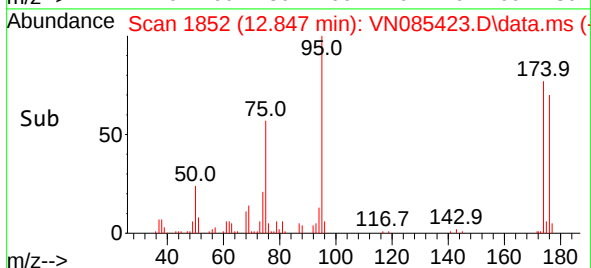
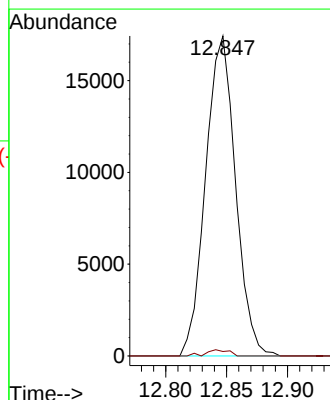
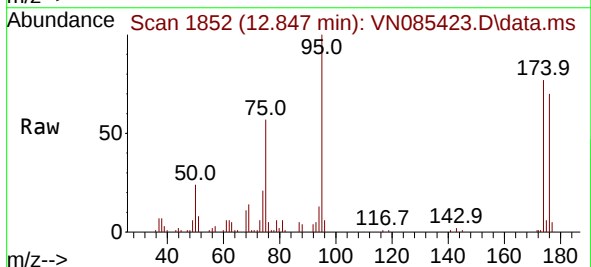
Instrument :
MSVOA_N
ClientSampleId :

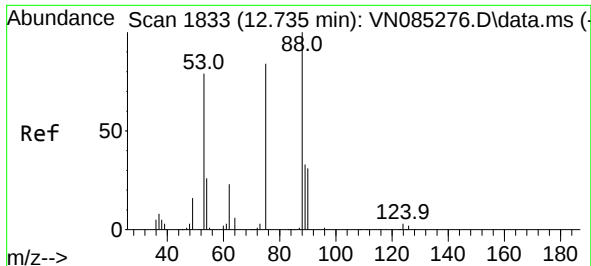
Tgt Ion:106 Resp: 777
Ion Ratio Lower Upper
106 100
91 174.8 110.6 331.8



#72
1,2,3-Trichloropropane
Concen: 13.097 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 75 Resp: 29782
Ion Ratio Lower Upper
75 100
77 1.3 0.0 407.2





#77

t-1,4-Dichloro-2-butene

Concen: 32.045 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

ClientSampleId :

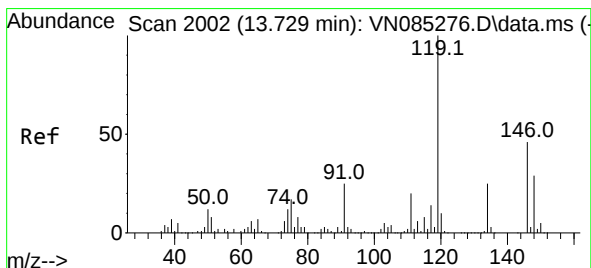
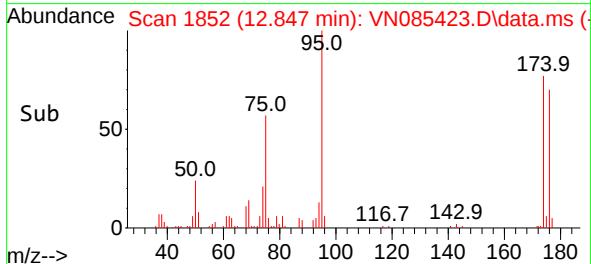
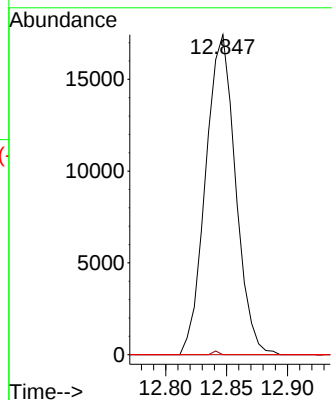
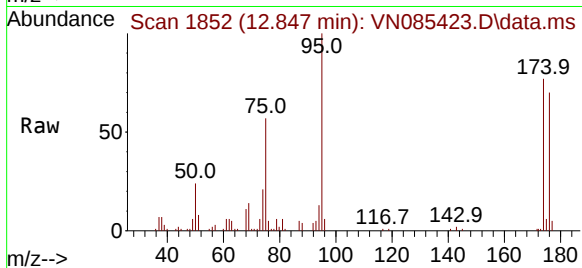
Tgt Ion: 75 Resp: 29782

Ion Ratio Lower Upper

75 100

53 0.0 54.9 164.5#

89 0.0 22.8 68.3#



#83

1,3-Dichlorobenzene

Concen: 4.345 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.082 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

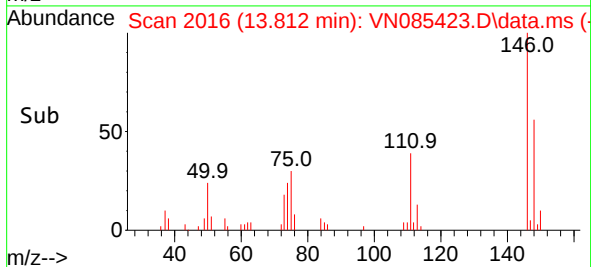
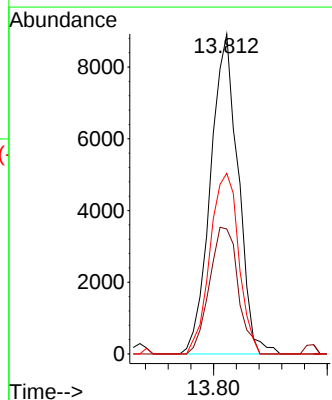
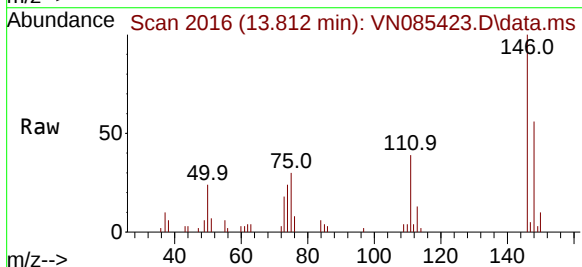
Tgt Ion:146 Resp: 15081

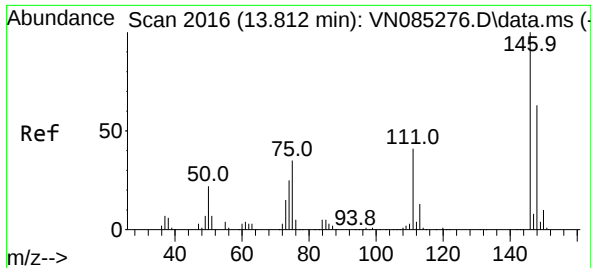
Ion Ratio Lower Upper

146 100

111 41.0 20.4 61.3

148 58.6 31.1 93.5

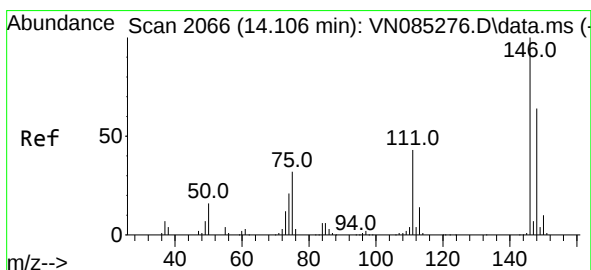
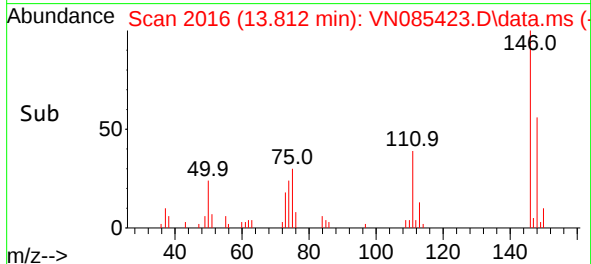
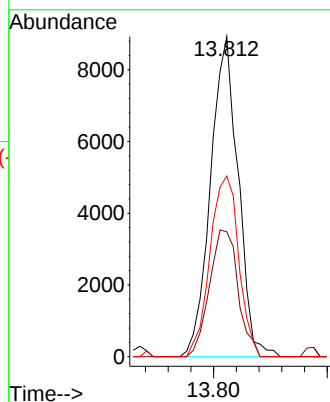
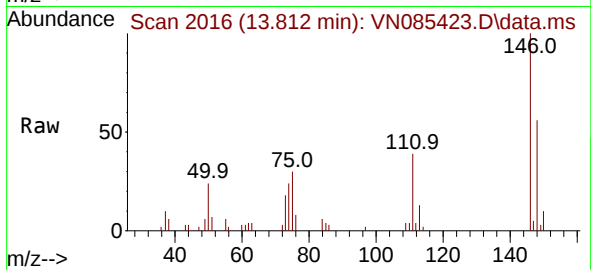




#84
 1,4-Dichlorobenzene
 Concen: 4.491 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085423.D
 Acq: 10 Jan 2025 13:20

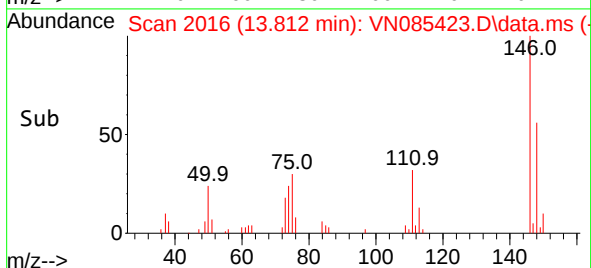
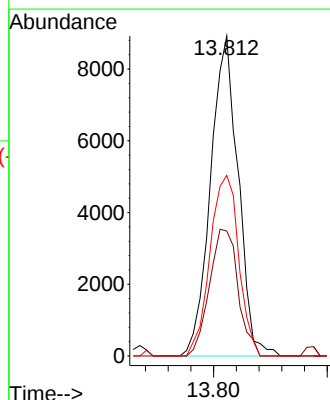
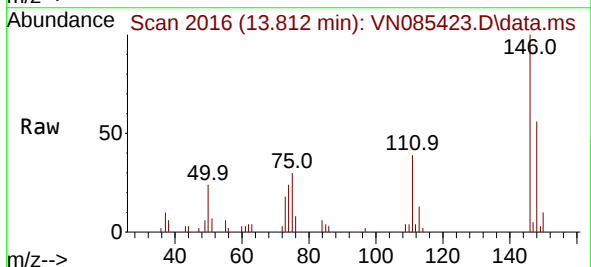
Instrument :
 MSVOA_N
 ClientSampleId :

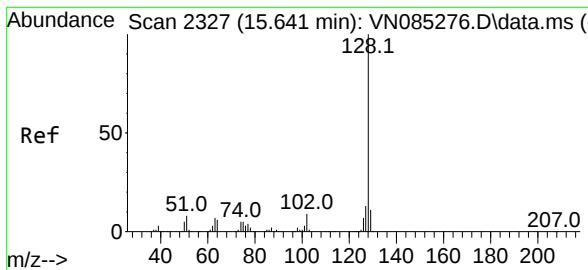
Tgt Ion:146 Resp: 15081
 Ion Ratio Lower Upper
 146 100
 111 41.0 20.7 62.1
 148 58.6 33.2 99.6



#87
 1,2-Dichlorobenzene
 Concen: 4.574 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. -0.294 min
 Lab File: VN085423.D
 Acq: 10 Jan 2025 13:20

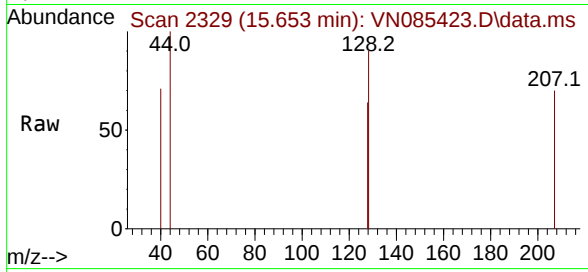
Tgt Ion:146 Resp: 15081
 Ion Ratio Lower Upper
 146 100
 111 41.0 22.1 66.3
 148 58.6 32.5 97.4





#91
 Naphthalene
 Concen: 0.229 ug/l
 RT: 15.653 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN085423.D
 Acq: 10 Jan 2025 13:20

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128	Resp:	1147
Ion	Ratio	Lower Upper
128	100	
127	0.0	10.6 16.0#
129	0.0	8.6 13.0#

