

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 :
 250108071-01-VOA

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)

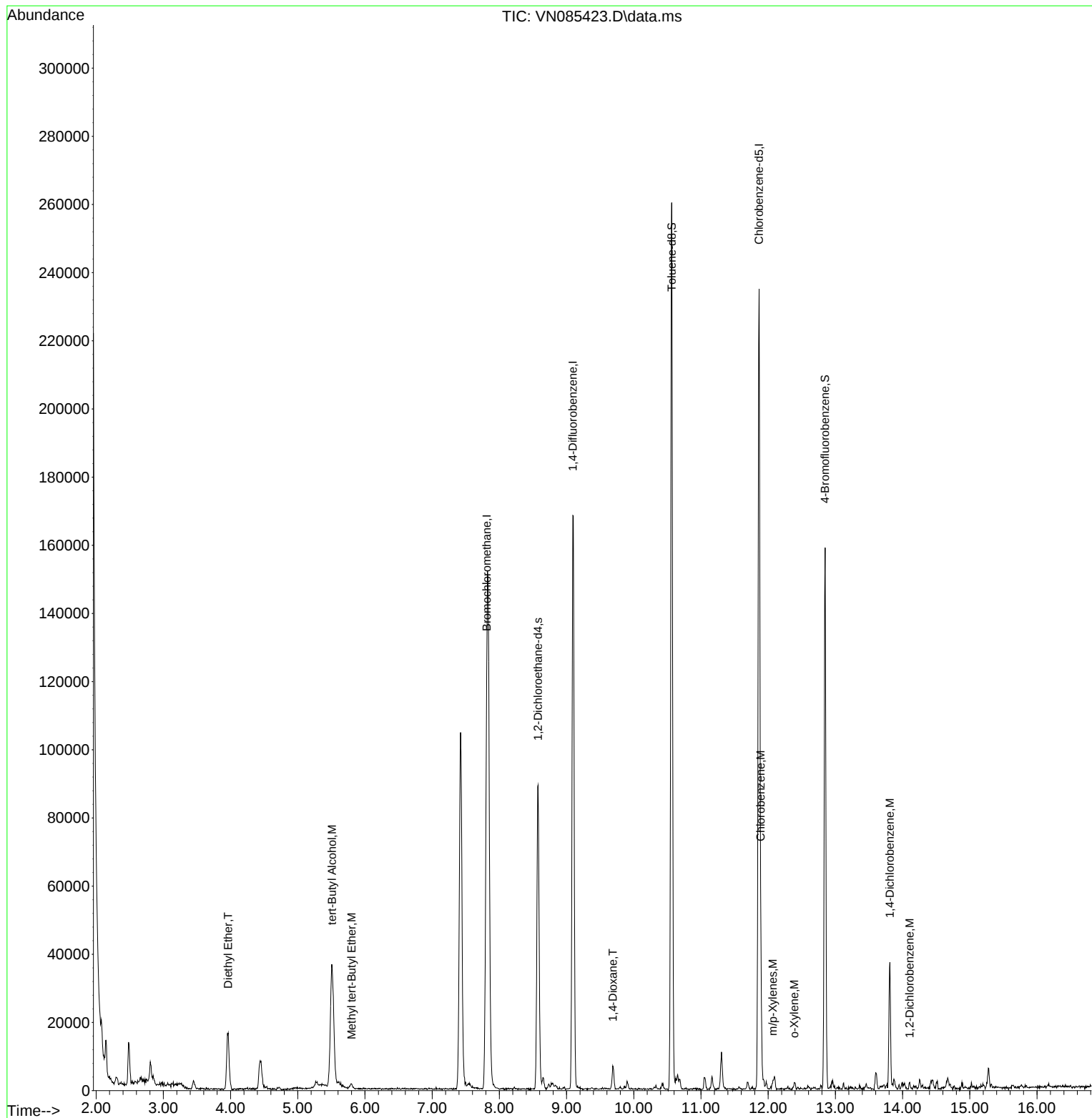
Internal Standards						
1) Bromochloromethane	7.812	128	27829	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	144269	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	129874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73586	30.059	ug/l	0.00
Spiked Amount	30.000	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
23) tert-Butyl Alcohol	5.512	59	60065	183.539	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	2269m	0.402	ug/l	
45) 1,4-Dioxane	9.688	88	4298	121.655	ug/l #	96
64) Chlorobenzene	11.888	112	20596	4.280	ug/l	98
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
84) 1,4-Dichlorobenzene	13.812	146	15081	4.491	ug/l	94
87) 1,2-Dichlorobenzene	14.106	146	1019m	0.309	ug/l	

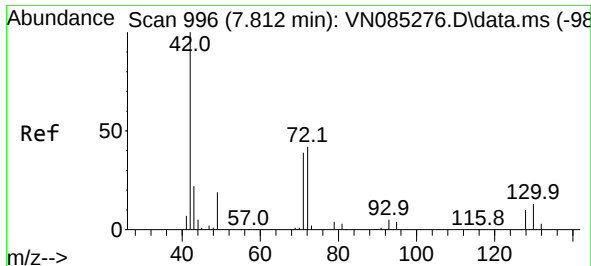
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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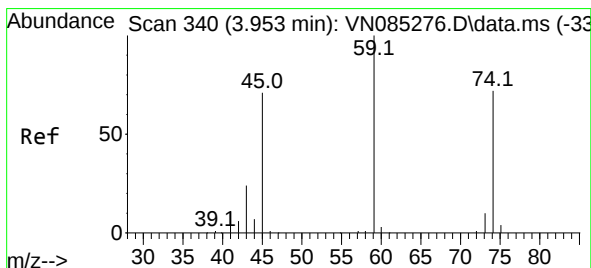
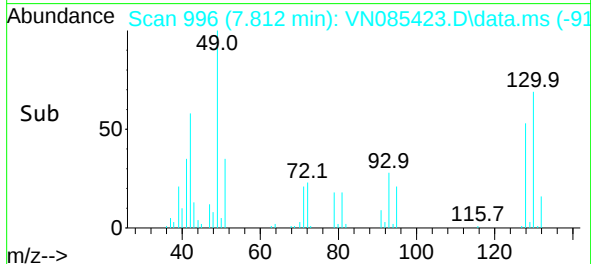
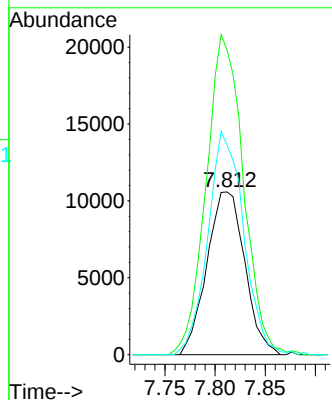
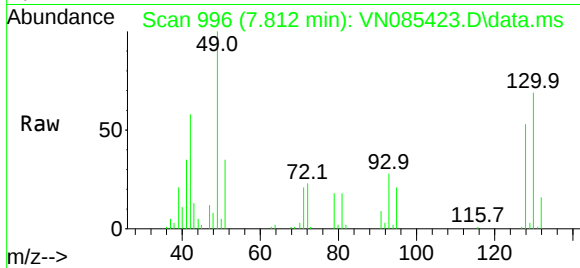




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

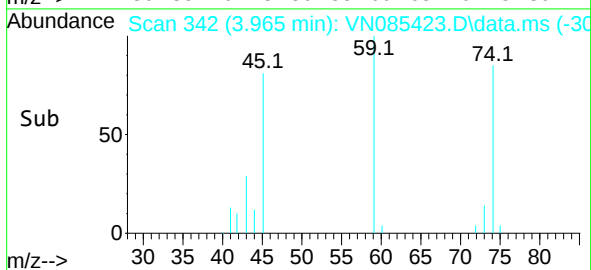
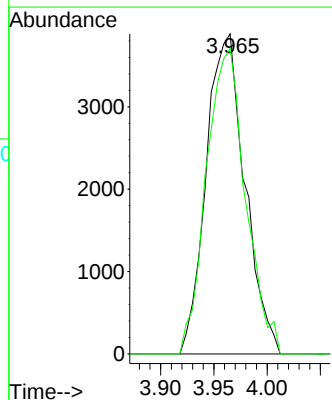
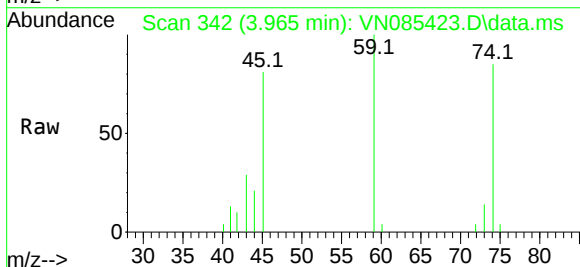
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

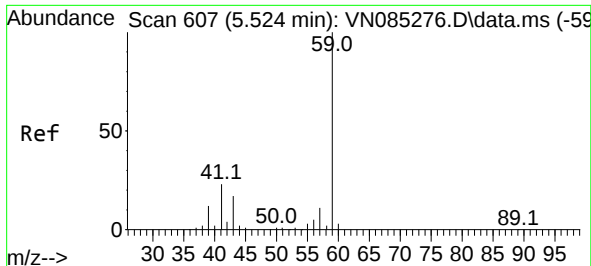
Tgt Ion:	128	Resp:	27829
Ion	Ratio	Lower	Upper
128	100		
49	192.4	0.0	497.8
130	129.8	0.0	328.5



#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

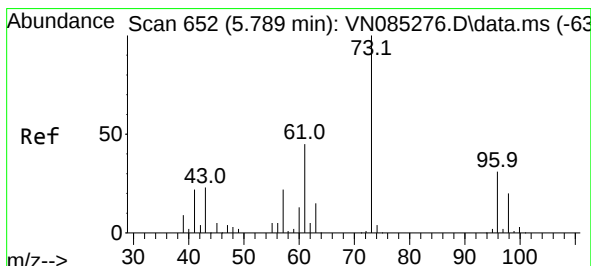
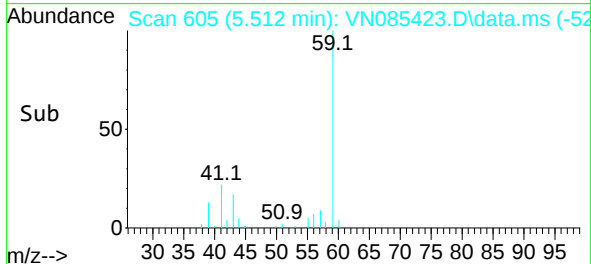
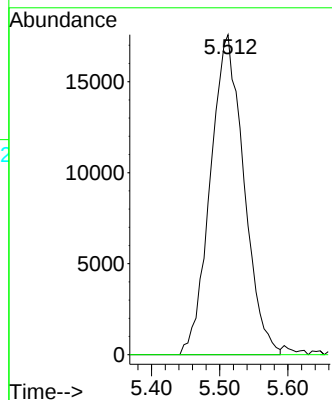
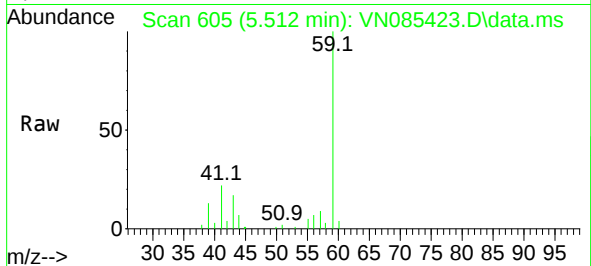




#23
tert-Butyl Alcohol
Concen: 183.539 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

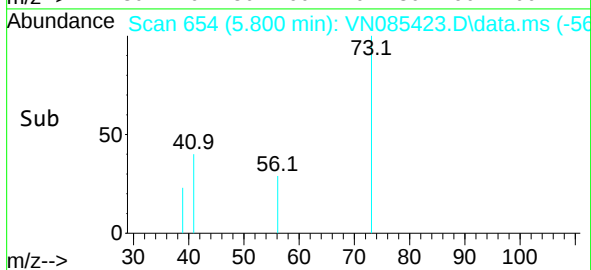
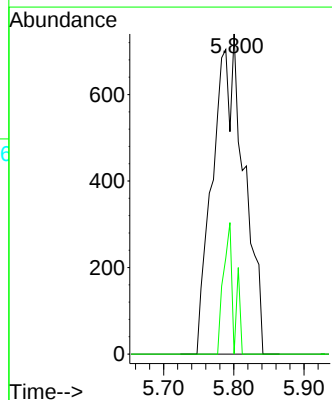
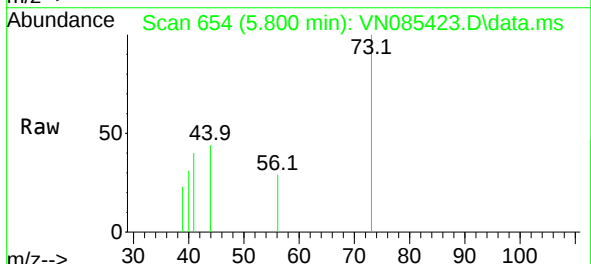
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

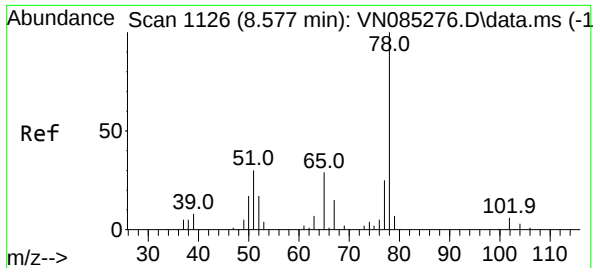
Tgt Ion: 59 Resp: 60065
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 0.402 ug/l m
RT: 5.800 min Scan# 654
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

Tgt Ion: 73 Resp: 2269
Ion Ratio Lower Upper
73 100
43 10.6 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 :

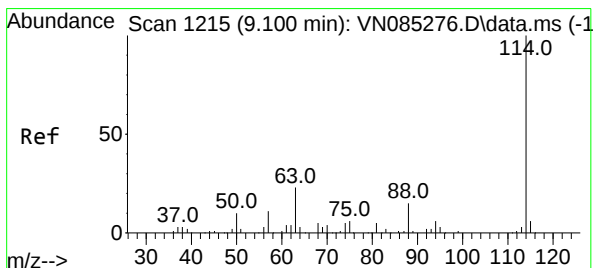
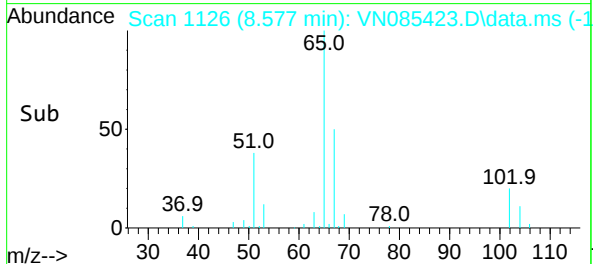
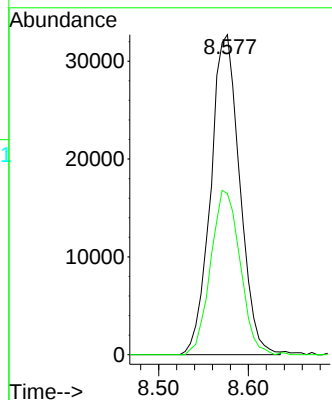
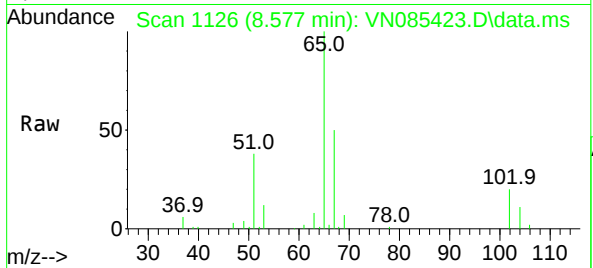
250108071-01-VOA

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

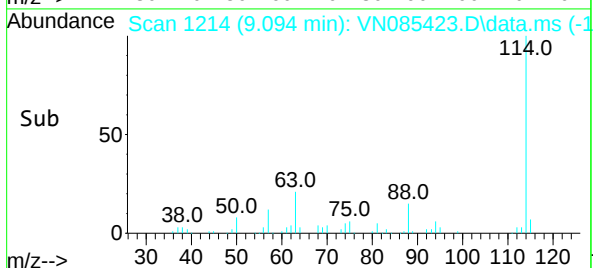
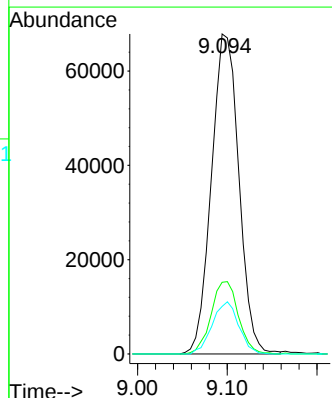
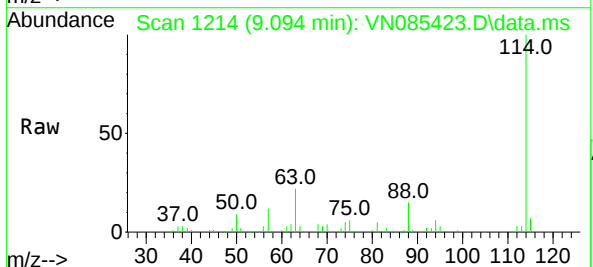
Tgt Ion: 114 Resp: 144269

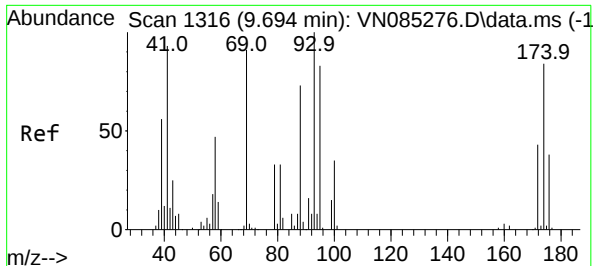
Ion Ratio Lower Upper

114 100

63 22.4 18.0 27.0

88 15.7 12.9 19.3





#45

1,4-Dioxane

Concen: 121.655 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA

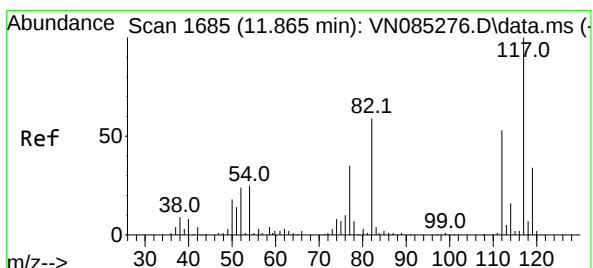
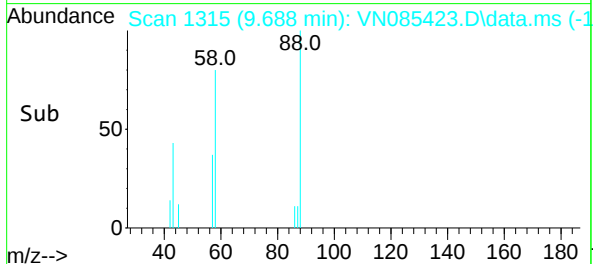
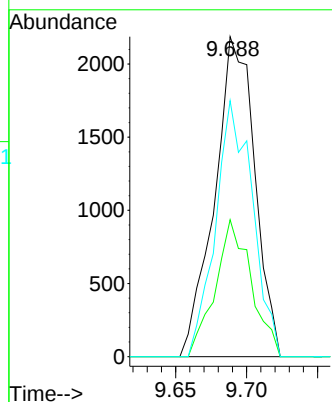
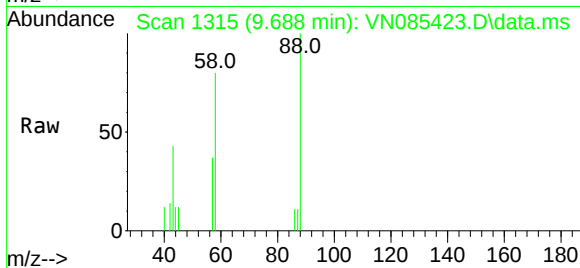
Tgt Ion: 88 Resp: 4298

Ion Ratio Lower Upper

88 100

43 38.3 25.4 38.2#

58 73.7 58.5 87.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085423.D

Acq: 10 Jan 2025 13:20

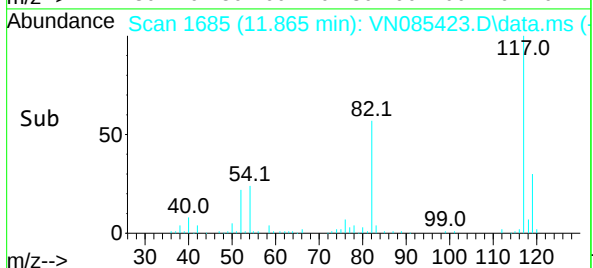
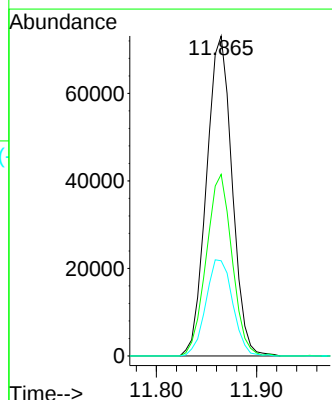
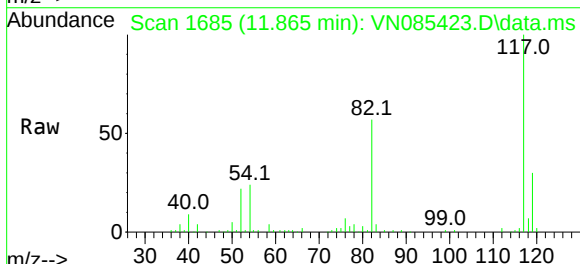
Tgt Ion: 117 Resp: 129874

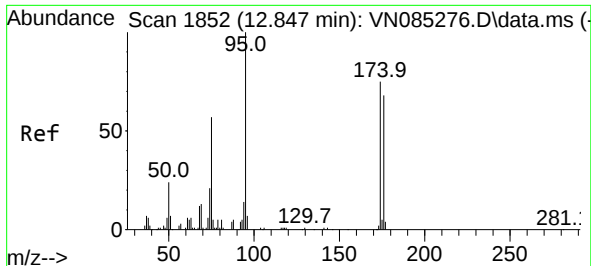
Ion Ratio Lower Upper

117 100

82 57.1 47.4 71.0

119 31.6 25.3 37.9

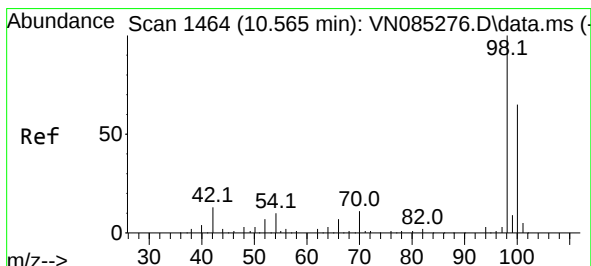
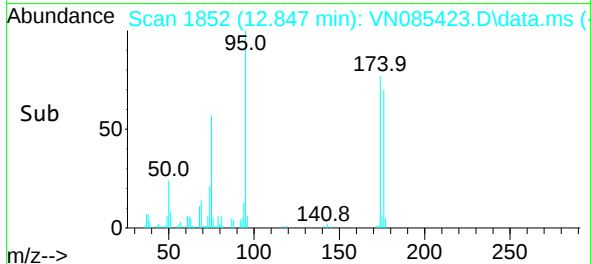
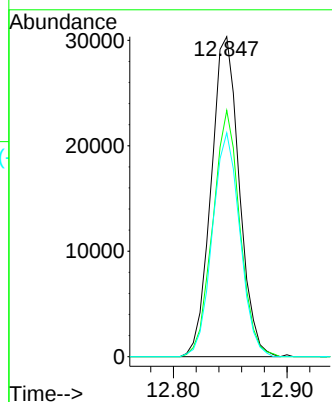
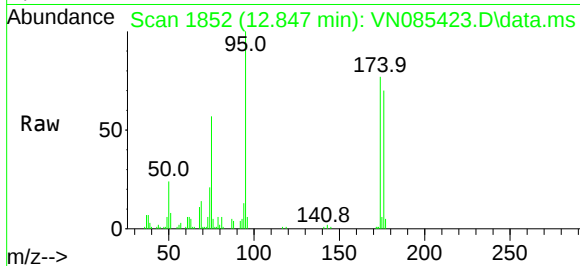




#60
4-Bromofluorobenzene
Concen: 24.832 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

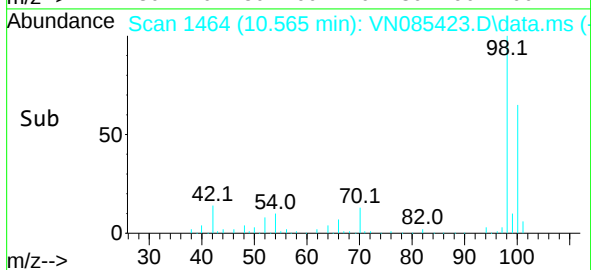
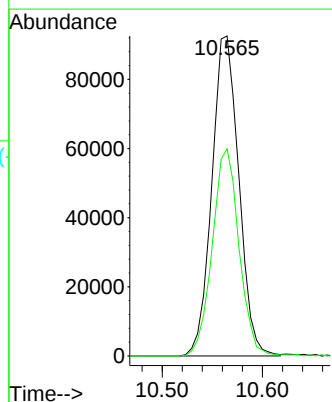
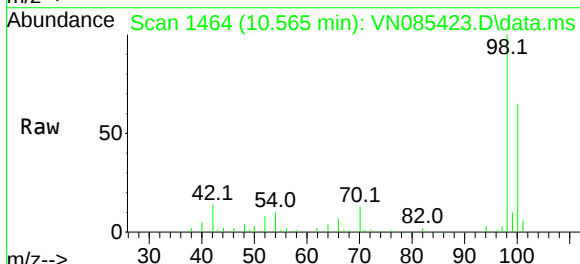
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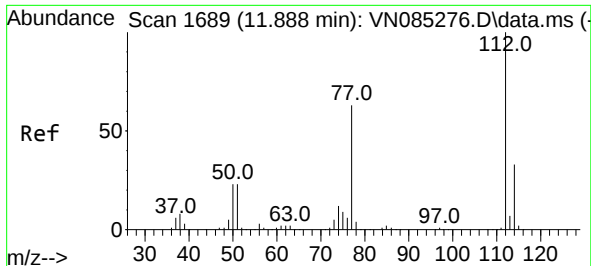
Tgt Ion: 95 Resp: 52240
Ion Ratio Lower Upper
95 100
174 74.3 57.8 86.8
176 68.5 57.1 85.7



#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

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

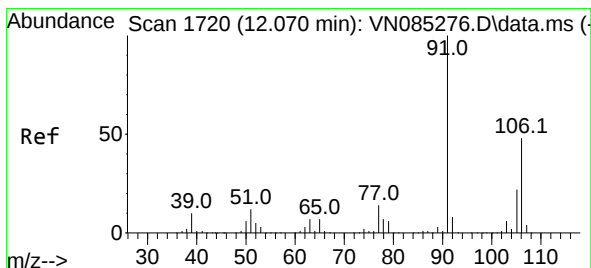
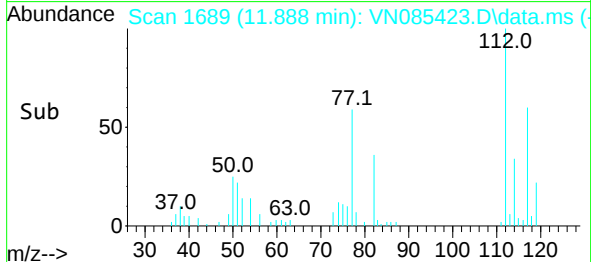
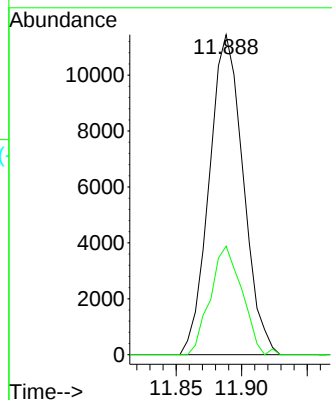
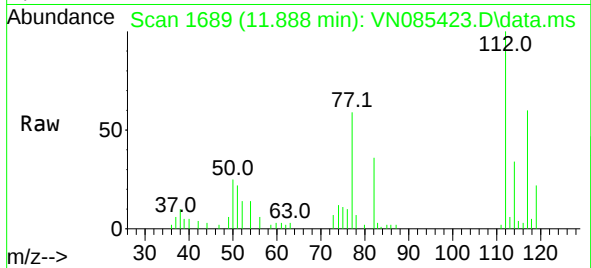




#64
Chlorobenzene
Concen: 4.280 ug/l
RT: 11.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

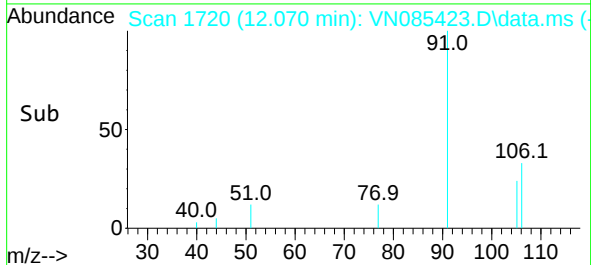
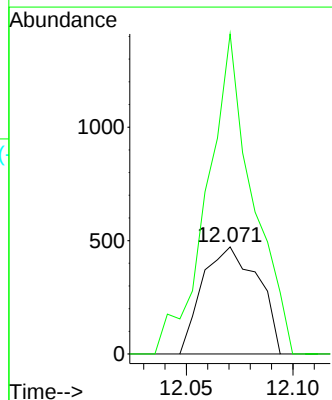
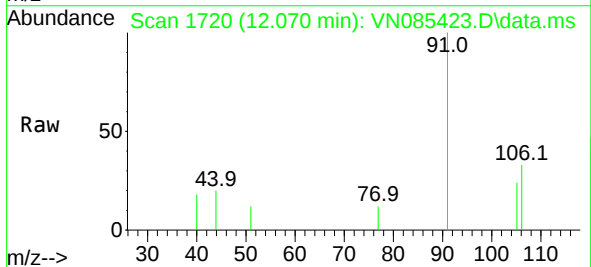
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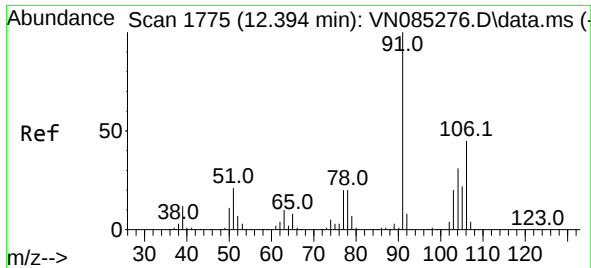
Tgt Ion:112 Resp: 20596
Ion Ratio Lower Upper
112 100
114 33.9 26.4 39.6



#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

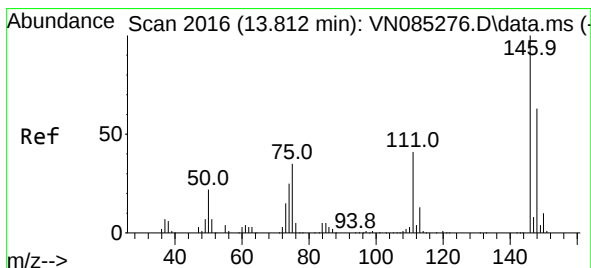
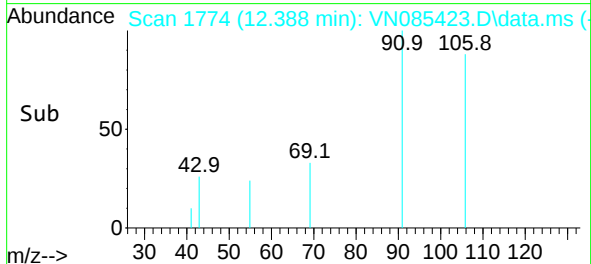
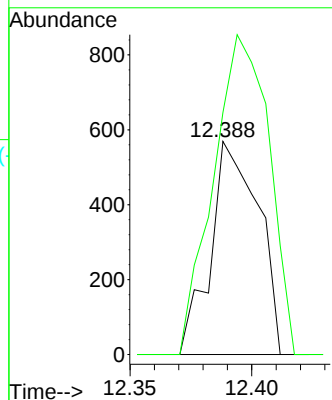
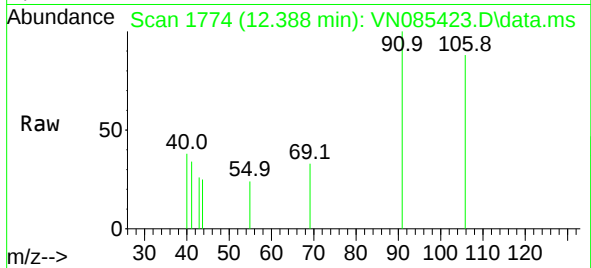




#68
o-Xylene
Concen: 0.259 ug/l
RT: 12.388 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085423.D
Acq: 10 Jan 2025 13:20

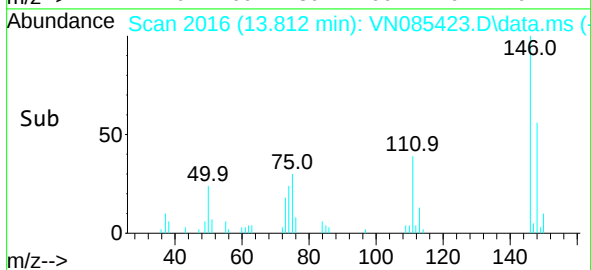
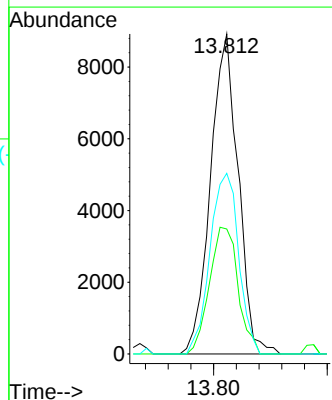
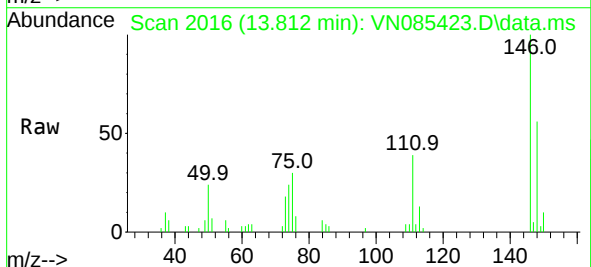
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

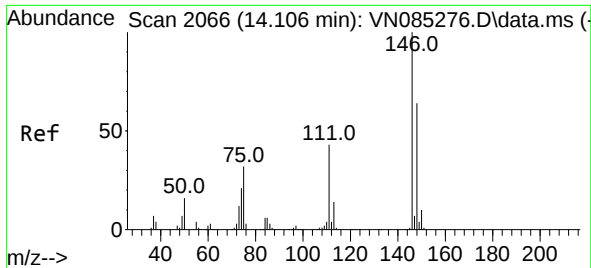
Tgt Ion:106 Resp: 777
Ion Ratio Lower Upper
106 100
91 174.8 110.6 331.8



#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

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: 0.309 ug/l m

RT: 14.106 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085423.D

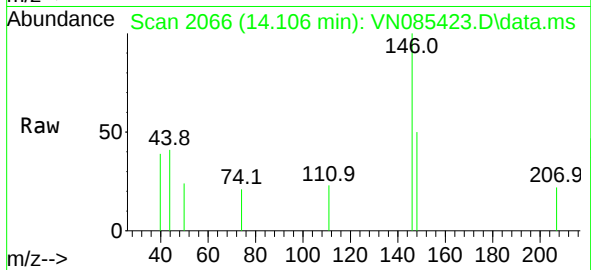
Acq: 10 Jan 2025 13:20

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA



Tgt Ion:	146	Resp:	1019
Ion	Ratio	Lower	Upper
146	100		
111	607.1	22.1	66.3#
148	867.1	32.5	97.4#

