

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041423\
 Data File : VN077344.D
 Acq On : 14 Apr 2023 11:14
 Operator : JC\MD
 Sample : VN0414WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBL01

Quant Time: Apr 17 05:07:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

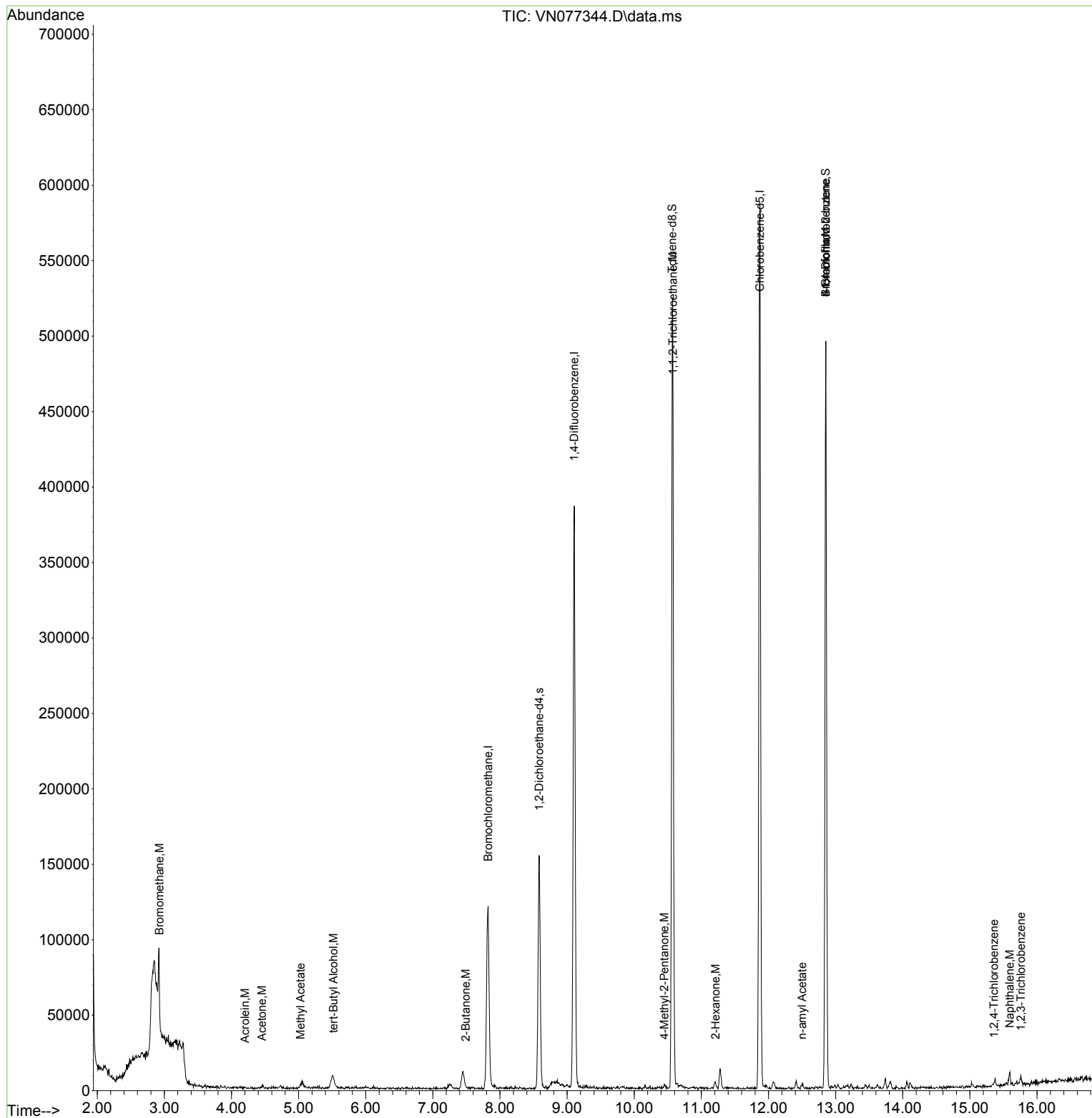
Internal Standards						
1) Bromochloromethane	7.825	128	48685	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	345136	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	355094	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	116081	28.114	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.700%
60) 4-Bromofluorobenzene	12.854	95	164100	26.726	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.100%
63) Toluene-d8	10.566	98	376177	30.135	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.433%
Target Compounds						
					Qvalue	
5) Bromomethane	2.925	94	2721	0.410	ug/l	89
12) Methyl Acetate	5.031	43	2514	0.329	ug/l #	22
13) Acrolein	4.201	56	241	0.254	ug/l	94
15) Acetone	4.454	58	521	0.550	ug/l #	1
23) tert-Butyl Alcohol	5.519	59	879	0.757	ug/l #	100
30) 2-Butanone	7.489	43	726	0.205	ug/l #	48
47) n-amyl Acetate	12.501	43	2174	0.212	ug/l #	84
50) 1,1,2-Trichloroethane	10.577	97	11883	1.977	ug/l #	1
56) Bromoform	12.854	173	894	0.210	ug/l #	1
58) 4-Methyl-2-Pentanone	10.448	43	1824	0.274	ug/l #	86
59) 2-Hexanone	11.213	43	2790	0.543	ug/l #	70
77) t-1,4-Dichloro-2-butene	12.854	75	91348	31.540	ug/l #	18
89) 1,2,4-Trichlorobenzene	15.359	180	1046	0.258	ug/l #	39
91) Naphthalene	15.595	128	6948	0.448	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.759	180	1495	0.378	ug/l	72

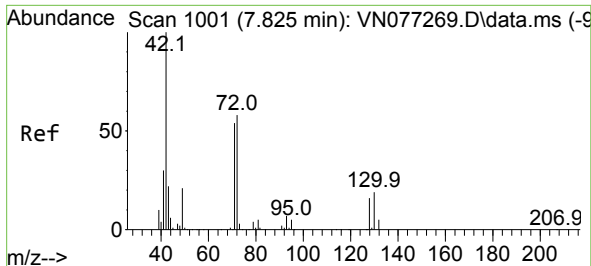
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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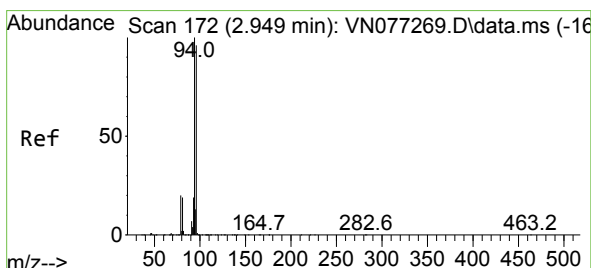
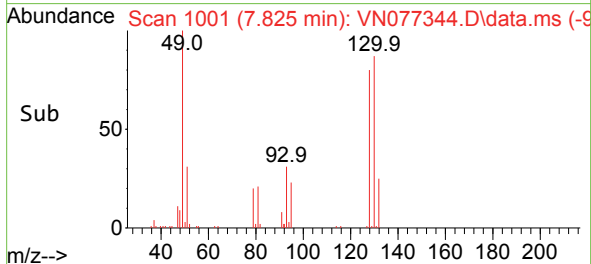
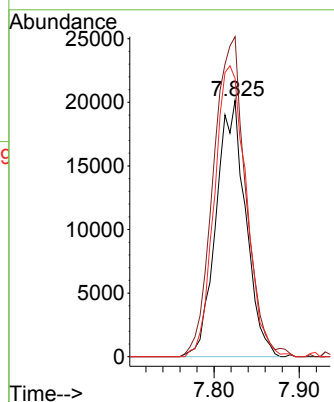
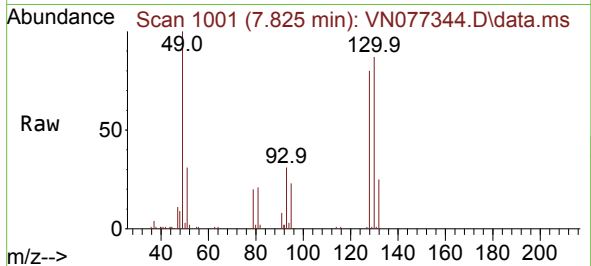




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.825 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

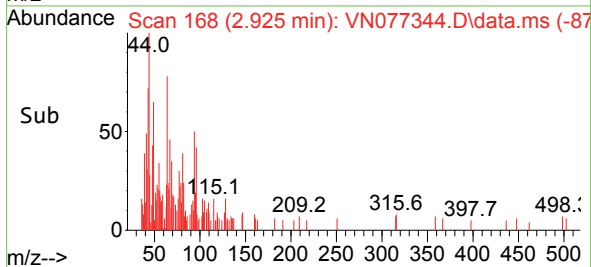
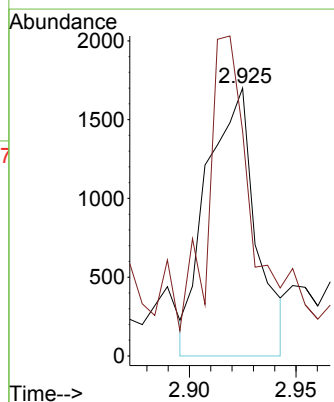
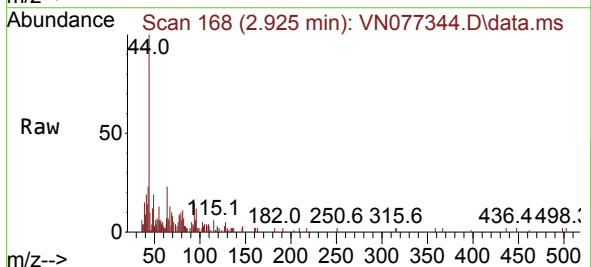
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

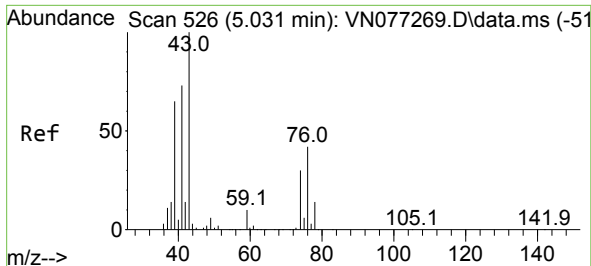
Tgt Ion:128 Resp: 48685
Ion Ratio Lower Upper
128 100
49 135.7 0.0 379.5
130 122.0 0.0 322.8



#5
Bromomethane
Concen: 0.410 ug/l
RT: 2.925 min Scan# 168
Delta R.T. -0.024 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

Tgt Ion: 94 Resp: 2721
Ion Ratio Lower Upper
94 100
96 85.9 77.0 115.6

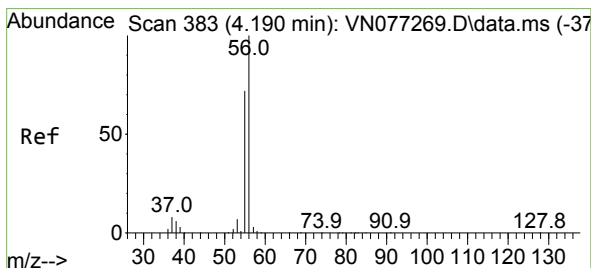
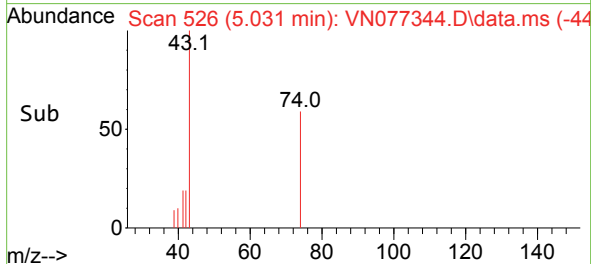
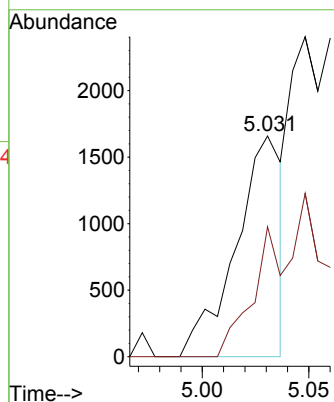
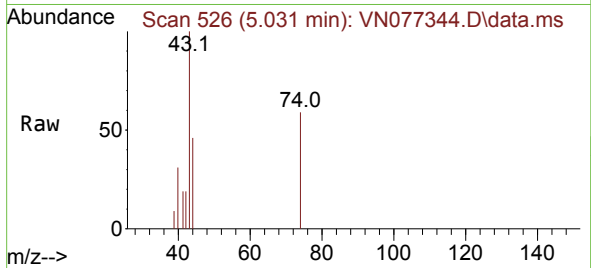




#12
Methyl Acetate
Concen: 0.329 ug/l
RT: 5.031 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

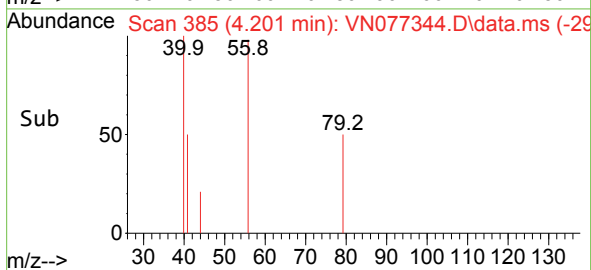
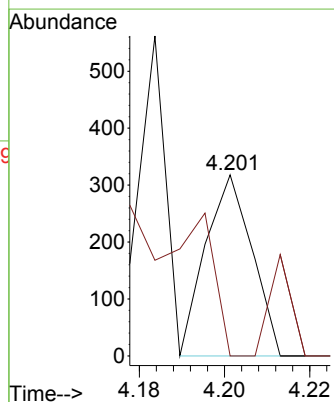
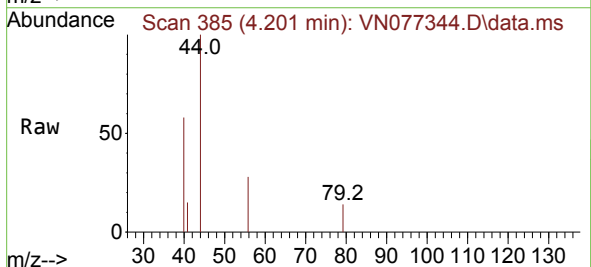
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

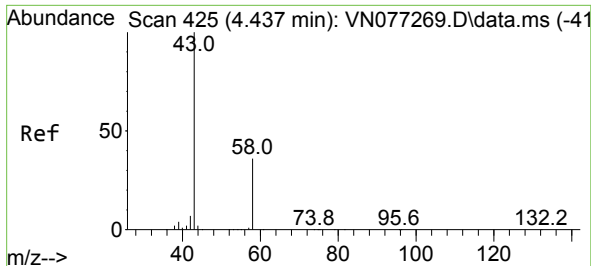
Tgt Ion: 43 Resp: 2514
Ion Ratio Lower Upper
43 100
74 72.5 24.2 36.2#



#13
Acrolein
Concen: 0.254 ug/l
RT: 4.201 min Scan# 385
Delta R.T. 0.011 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

Tgt Ion: 56 Resp: 241
Ion Ratio Lower Upper
56 100
55 64.3 55.2 82.8

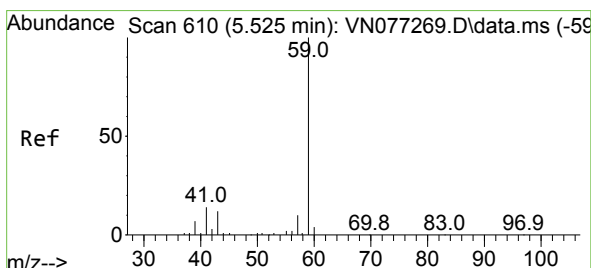
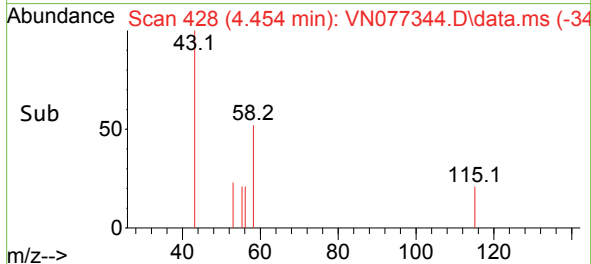
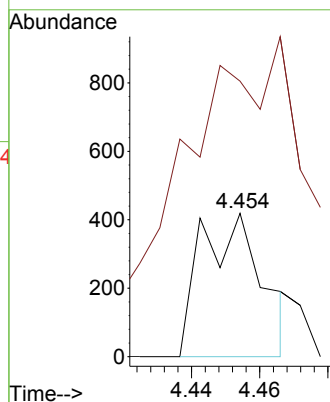
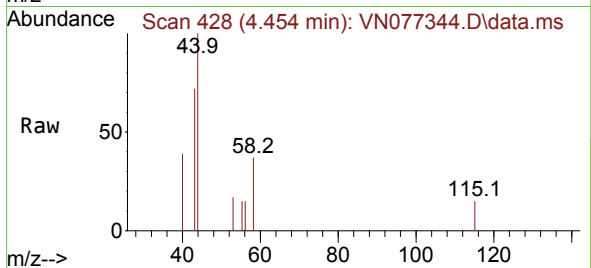




#15
Acetone
Concen: 0.550 ug/l
RT: 4.454 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

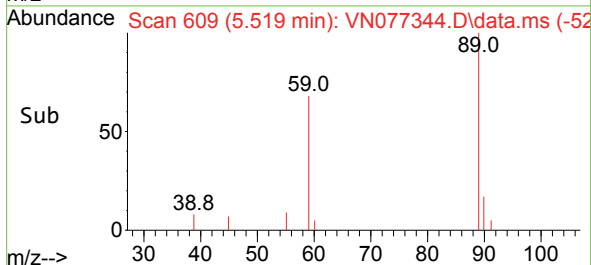
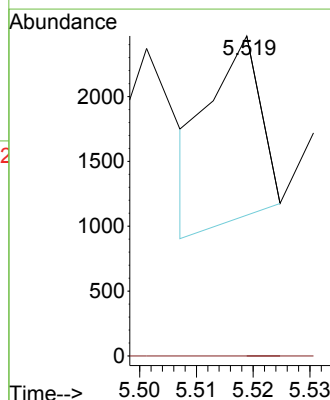
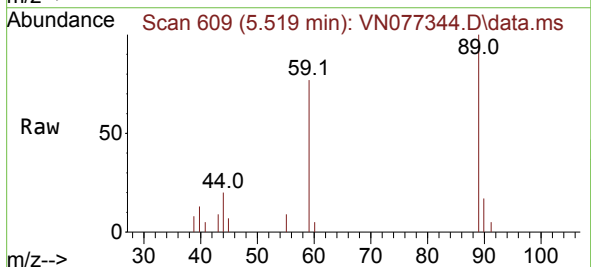
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

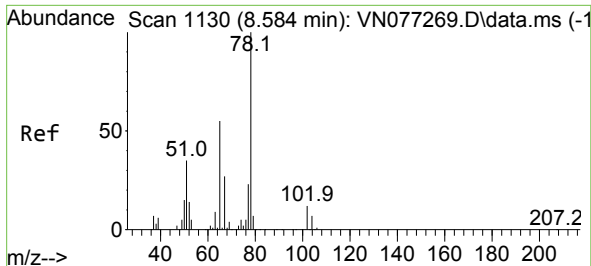
Tgt Ion: 58 Resp: 521
Ion Ratio Lower Upper
58 100
43 40.3 220.9 331.3#



#23
tert-Butyl Alcohol
Concen: 0.757 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

Tgt Ion: 59 Resp: 879
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

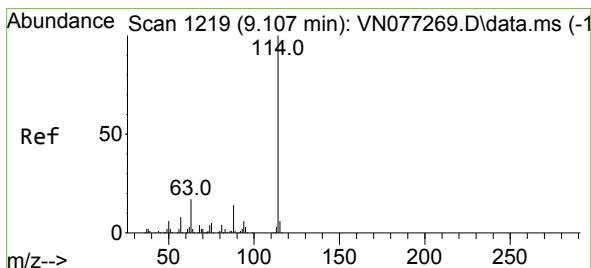
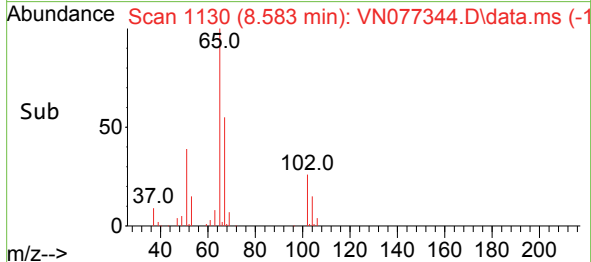
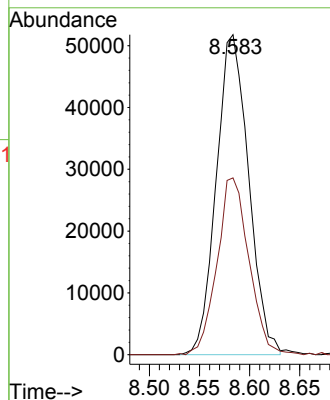
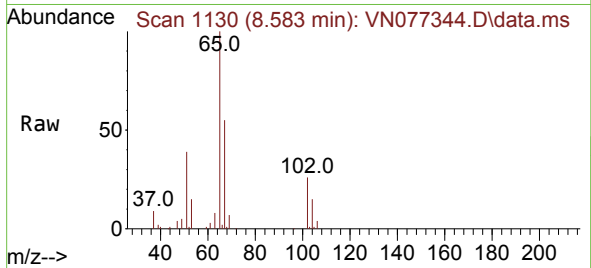




#27
 1,2-Dichloroethane-d4
 Concen: 28.114 ug/l
 RT: 8.583 min Scan# 1130
 Delta R.T. -0.001 min
 Lab File: VN077344.D
 Acq: 14 Apr 2023 11:14

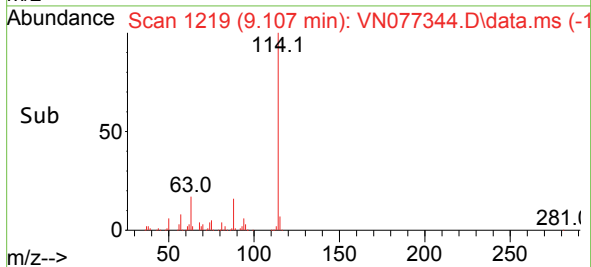
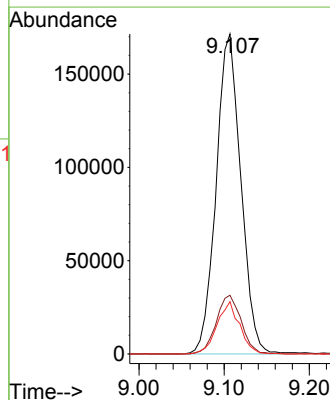
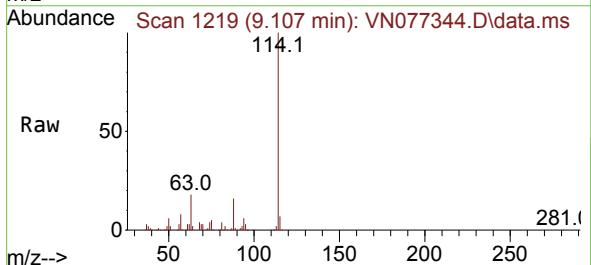
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBL01

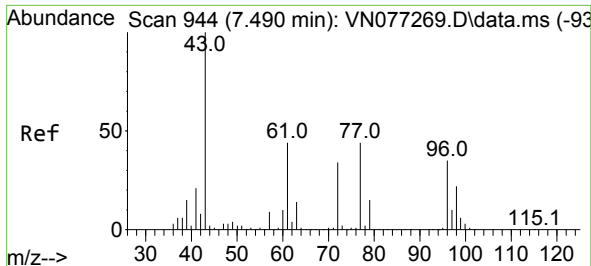
Tgt Ion: 65 Resp: 116081
 Ion Ratio Lower Upper
 65 100
 67 54.5 41.8 62.6



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.107 min Scan# 1219
 Delta R.T. -0.000 min
 Lab File: VN077344.D
 Acq: 14 Apr 2023 11:14

Tgt Ion: 114 Resp: 345136
 Ion Ratio Lower Upper
 114 100
 63 18.5 15.0 22.4
 88 15.0 11.9 17.9

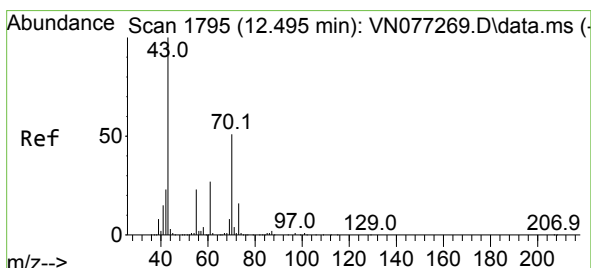
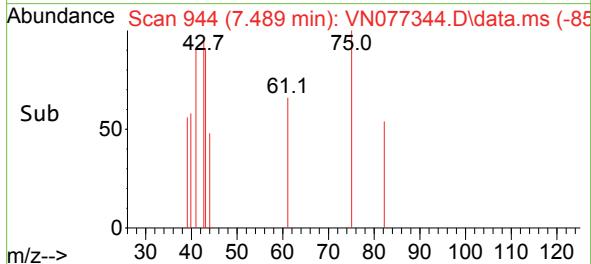
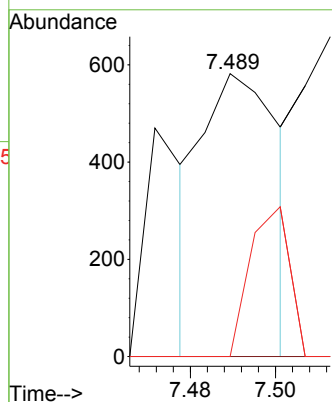
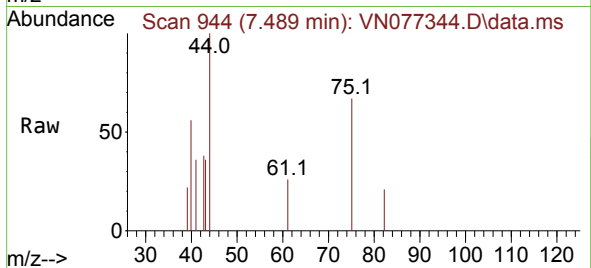




#30
2-Butanone
Concen: 0.205 ug/l
RT: 7.489 min Scan# 944
Delta R.T. -0.001 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

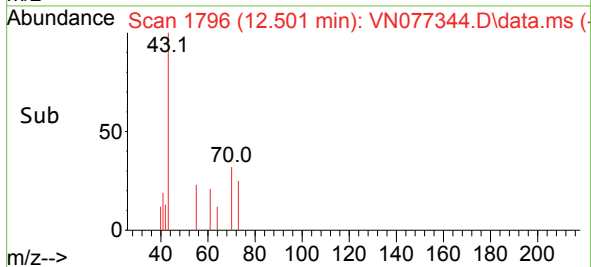
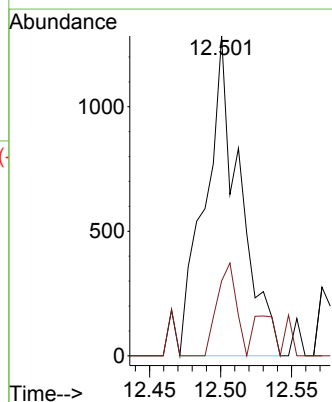
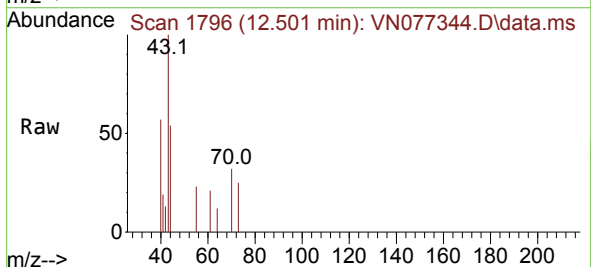
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

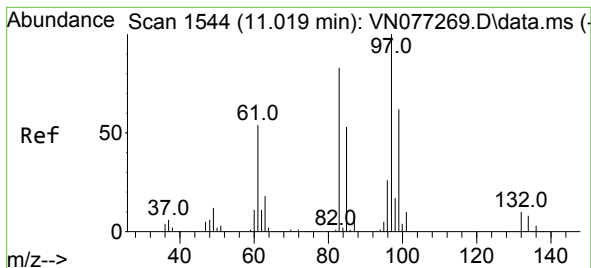
Tgt Ion: 43 Resp: 726
Ion Ratio Lower Upper
43 100
57 0.0 7.5 11.3#
72 0.0 26.9 40.3#



#47
n-amy1 Acetate
Concen: 0.212 ug/l
RT: 12.501 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

Tgt Ion: 43 Resp: 2174
Ion Ratio Lower Upper
43 100
55 16.1 19.4 29.0#





#50

1,1,2-Trichloroethane

Concen: 1.977 ug/l

RT: 10.577 min Scan# 1469

Delta R.T. -0.442 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBL01

Tgt Ion: 97 Resp: 11883

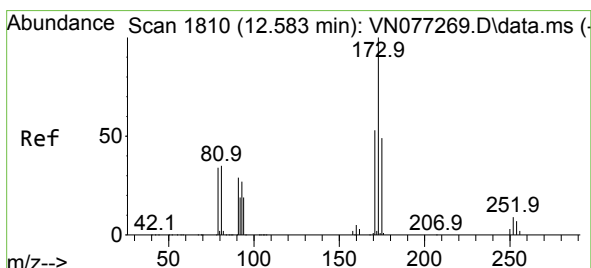
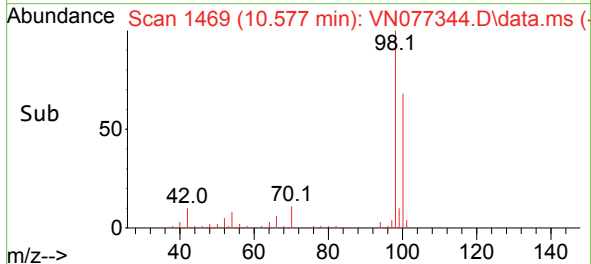
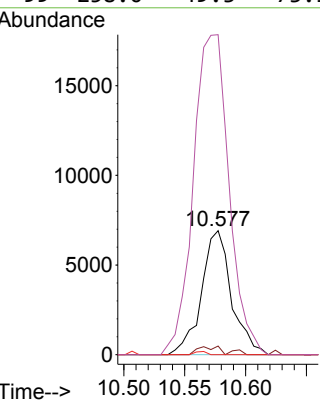
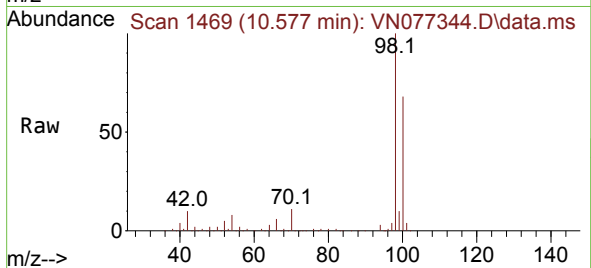
Ion Ratio Lower Upper

97 100

83 6.9 66.7 100.1#

85 0.0 42.4 63.6#

99 258.0 49.3 73.9#



#56

Bromoform

Concen: 0.210 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.271 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

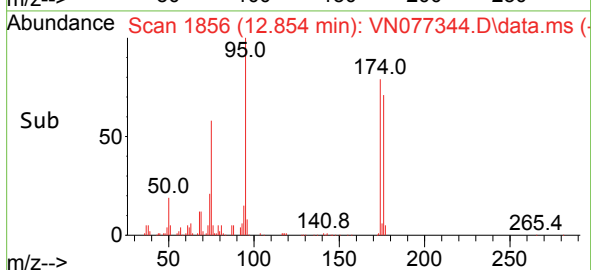
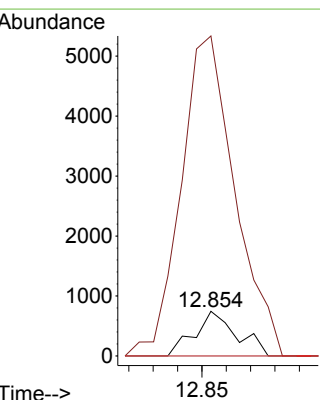
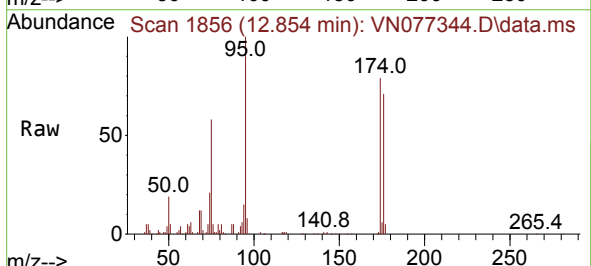
Tgt Ion:173 Resp: 894

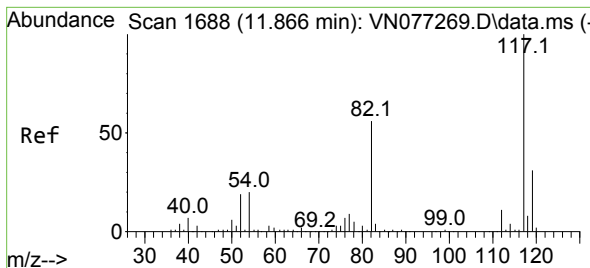
Ion Ratio Lower Upper

173 100

175 920.5 38.2 57.2#

254 0.0 6.0 9.0#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN077344.D

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VN0414WBL01

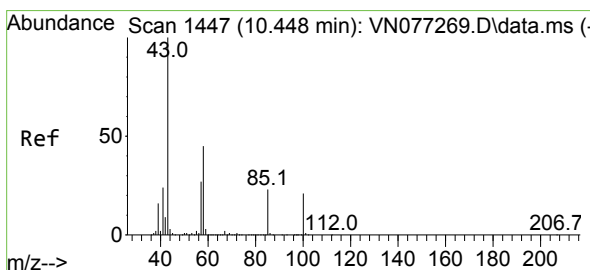
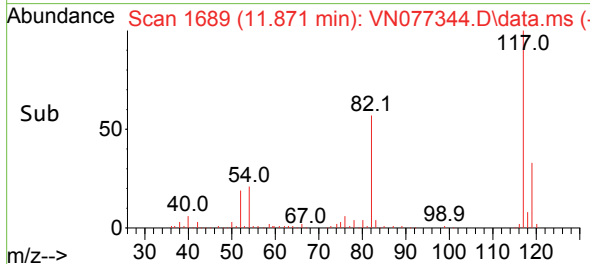
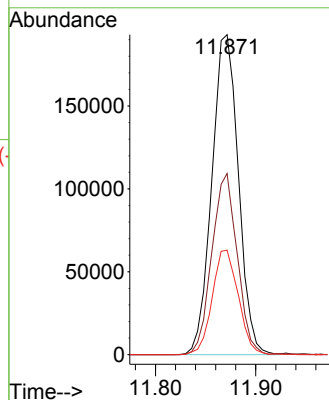
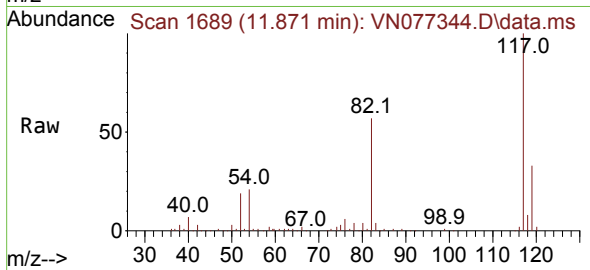
Tgt Ion:117 Resp: 355094

Ion Ratio Lower Upper

117 100

82 54.0 43.8 65.8

119 32.0 25.4 38.0



#58

4-Methyl-2-Pentanone

Concen: 0.274 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. -0.000 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

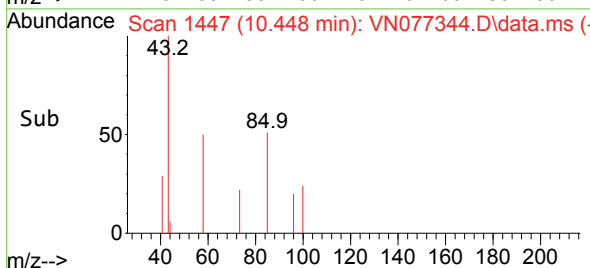
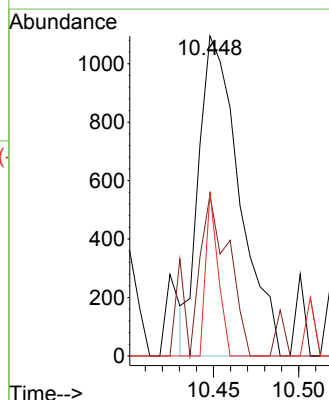
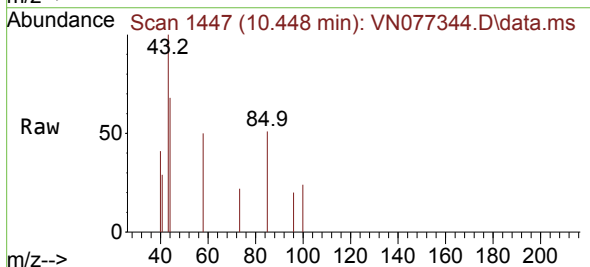
Tgt Ion: 43 Resp: 1824

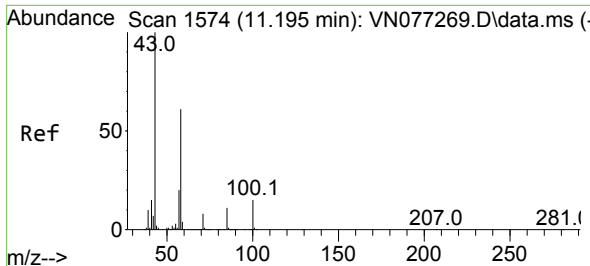
Ion Ratio Lower Upper

43 100

58 34.6 34.7 52.1#

85 15.4 17.8 26.8#

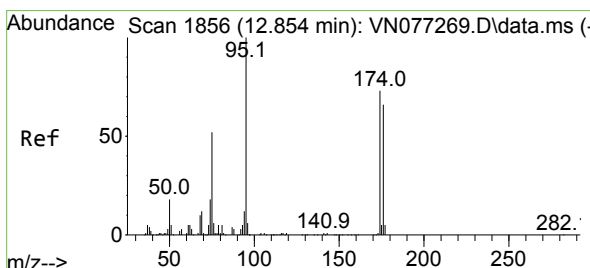
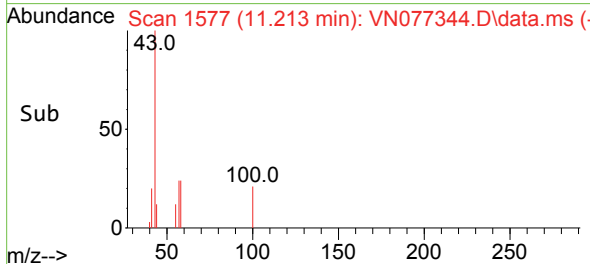
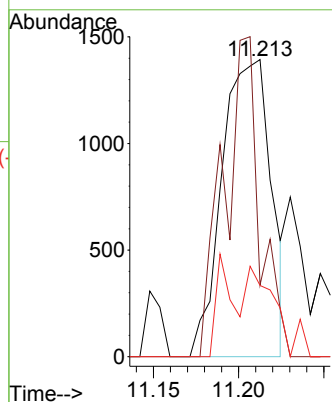
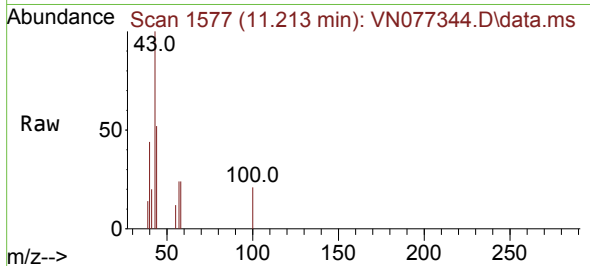




#59
2-Hexanone
Concen: 0.543 ug/l
RT: 11.213 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

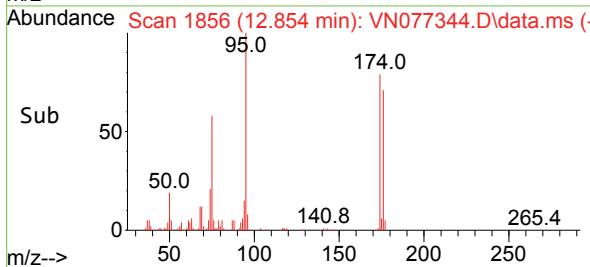
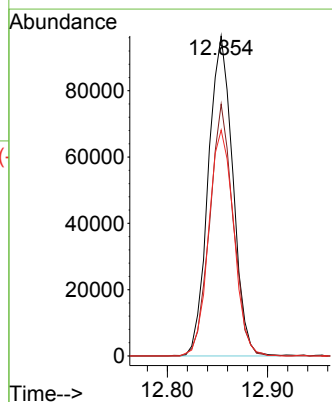
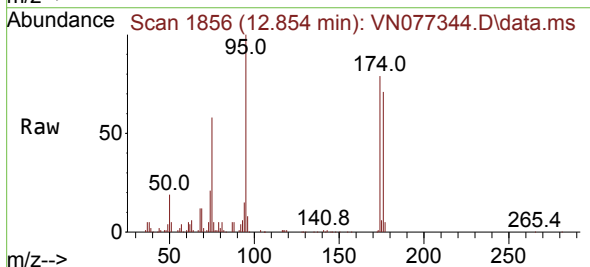
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

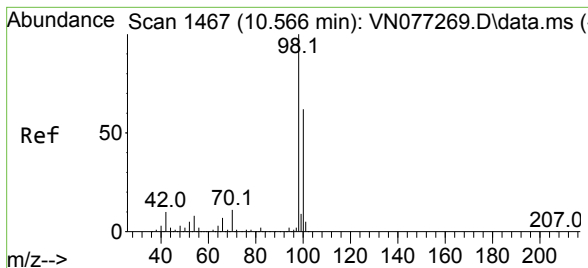
Tgt Ion: 43 Resp: 2790
Ion Ratio Lower Upper
43 100
58 32.4 48.6 73.0#
57 16.5 16.7 25.1#



#60
4-Bromofluorobenzene
Concen: 26.726 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN077344.D
Acq: 14 Apr 2023 11:14

Tgt Ion: 95 Resp: 164100
Ion Ratio Lower Upper
95 100
174 75.3 57.8 86.8
176 72.2 54.6 81.8





#63

Toluene-d8

Concen: 30.135 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. -0.000 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

Instrument :

MSVOA_N

ClientSampleId :

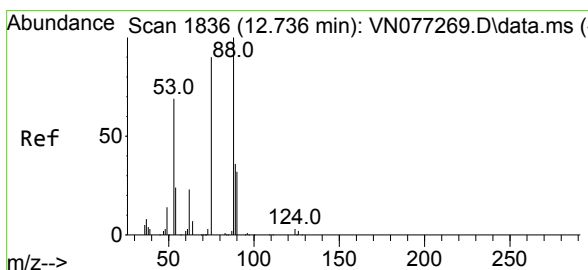
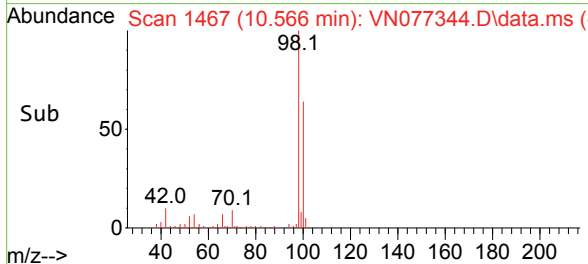
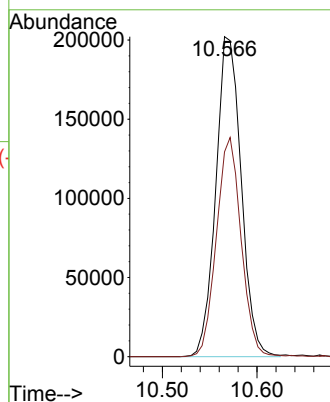
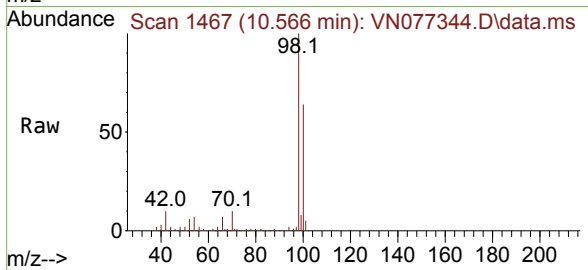
VN0414WBL01

Tgt Ion: 98 Resp: 376177

Ion Ratio Lower Upper

98 100

100 66.7 51.4 77.2



#77

t-1,4-Dichloro-2-butene

Concen: 31.540 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

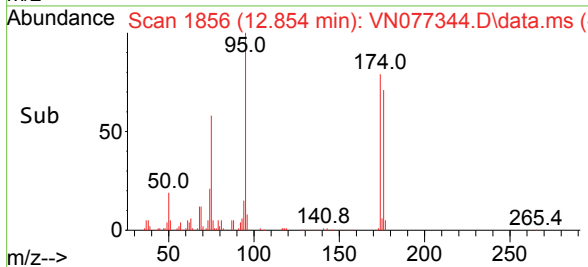
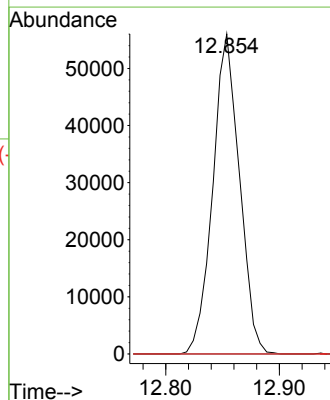
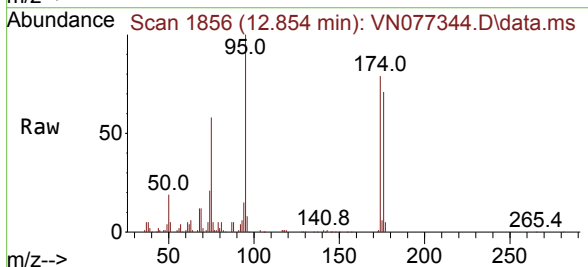
Tgt Ion: 75 Resp: 91348

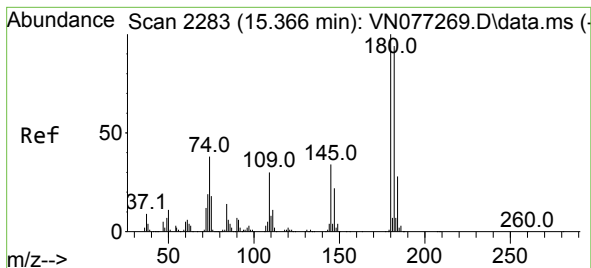
Ion Ratio Lower Upper

75 100

53 0.0 38.8 116.4#

89 0.0 23.2 69.6#





#89

1,2,4-Trichlorobenzene

Concen: 0.258 ug/l

RT: 15.359 min Scan# 21

Delta R.T. -0.007 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBL01

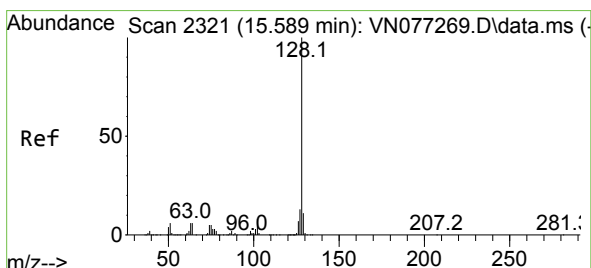
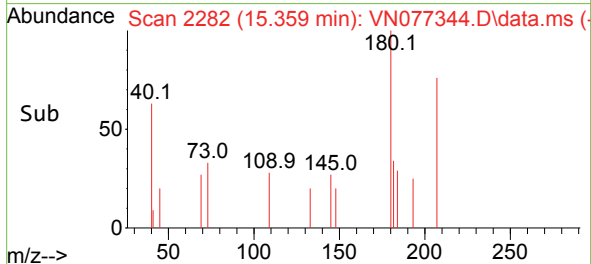
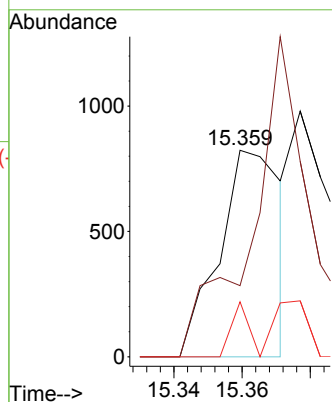
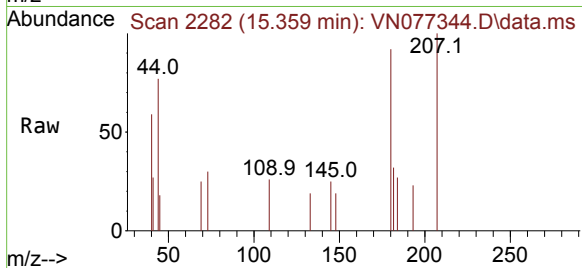
Tgt Ion:180 Resp: 1046

Ion Ratio Lower Upper

180 100

182 29.8 75.6 113.4#

145 7.4 26.7 40.1#



#91

Naphthalene

Concen: 0.448 ug/l

RT: 15.595 min Scan# 2322

Delta R.T. 0.006 min

Lab File: VN077344.D

Acq: 14 Apr 2023 11:14

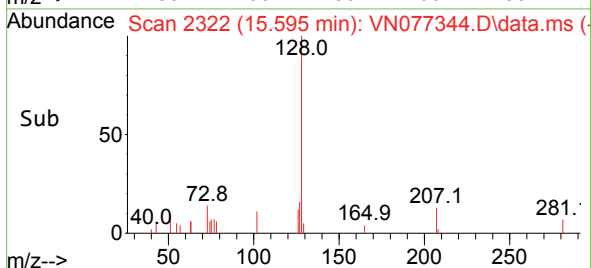
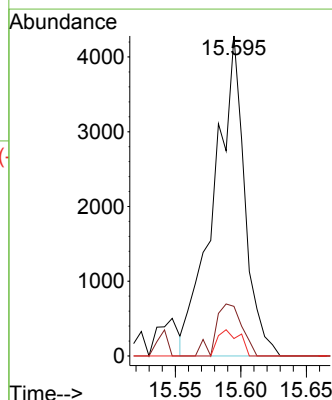
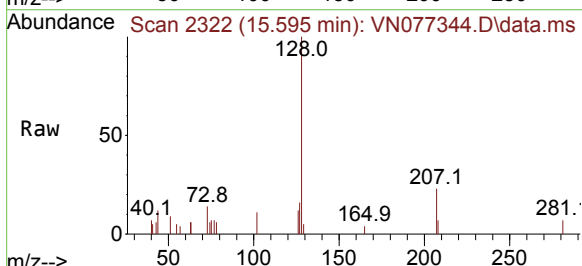
Tgt Ion:128 Resp: 6948

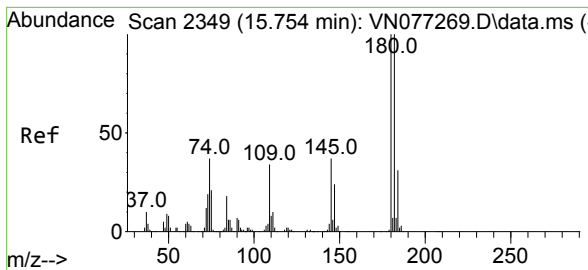
Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

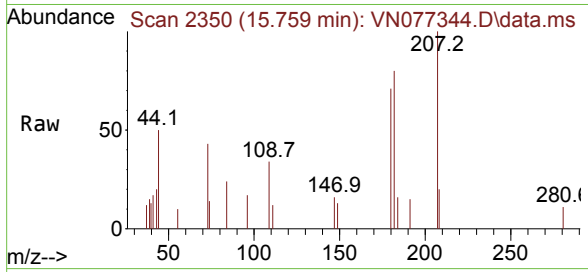
129 5.9 8.9 13.3#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.378 ug/l
 RT: 15.759 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN077344.D
 Acq: 14 Apr 2023 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBL01



Tgt Ion:	180	Resp:	1495
Ion	Ratio	Lower	Upper
180	100		
182	124.3	0.0	190.4
145	23.1	0.0	72.4

