

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112823\
 Data File : VN080294.D
 Acq On : 28 Nov 2023 14:04
 Operator : JC\MD
 Sample : 05551-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 00:36:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

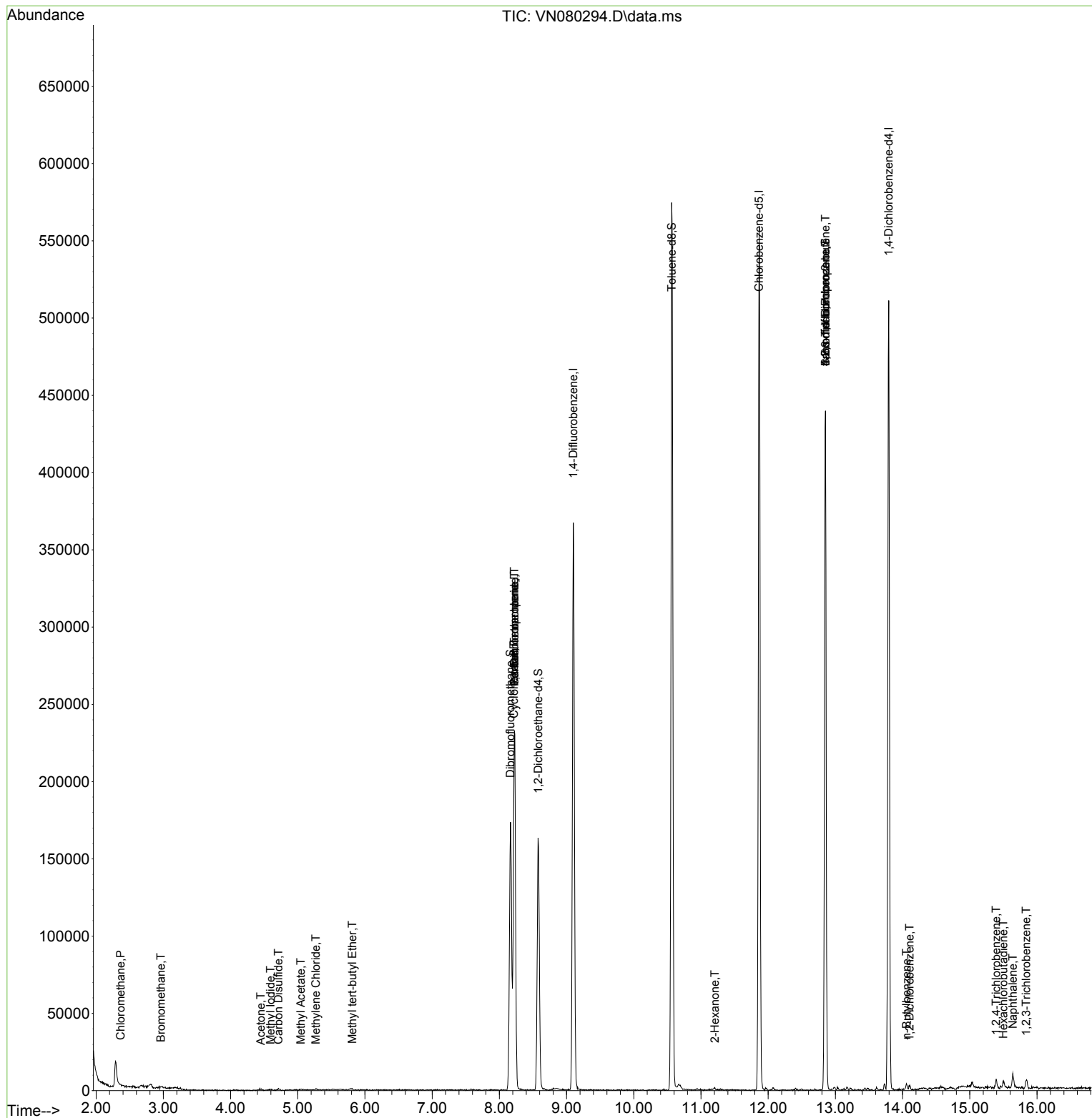
Internal Standards						
1) Pentafluorobenzene	8.224	168	164861	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311050	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320709	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	138555	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	148018	54.376	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.760%	
35) Dibromofluoromethane	8.165	113	120701	52.590	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.180%	
50) Toluene-d8	10.565	98	407695	49.277	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.560%	
62) 4-Bromofluorobenzene	12.853	95	154022	49.286	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.580%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	398	0.216	ug/l #	88
5) Bromomethane	2.965	94	360	0.271	ug/l	88
6) Chloroethane	3.130	64	687	Below Cal	#	43
10) Methyl Iodide	4.595	142	1020	0.507	ug/l #	91
16) Acetone	4.448	43	1253	1.370	ug/l #	40
17) Carbon Disulfide	4.712	76	1493	0.287	ug/l #	75
18) Methyl Acetate	5.048	43	866	0.295	ug/l #	42
19) Methyl tert-butyl Ether	5.812	73	1398	0.227	ug/l #	82
20) Methylene Chloride	5.271	84	384	0.201	ug/l #	76
31) Cyclohexane	8.218	56	4016	1.357	ug/l #	13
36) 1,1-Dichloropropene	8.224	75	13732	4.133	ug/l #	52
38) Carbon Tetrachloride	8.224	117	18664	4.426	ug/l #	16
59) 2-Hexanone	11.206	43	1020	0.547	ug/l	89
71) Bromoform	12.853	173	1075	0.514	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	83533	24.606	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	83533	83.133	ug/l #	15
89) n-Butylbenzene	14.059	91	2448	0.344	ug/l	91
91) 1,2-Dichlorobenzene	14.106	146	1242	0.265	ug/l	94
93) 1,2,4-Trichlorobenzene	15.394	180	1937	0.712	ug/l	79
94) Hexachlorobutadiene	15.500	225	1216	0.776	ug/l	91
95) Naphthalene	15.641	128	8781	1.112	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	2803	1.099	ug/l	95

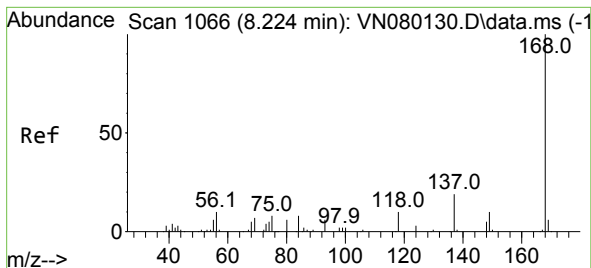
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 17 01:19:32 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

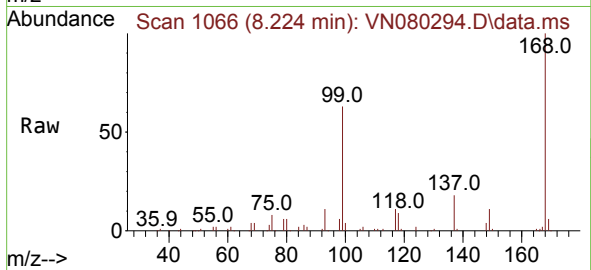
Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

Instrument :

MSVOA_N

ClientSampleId :

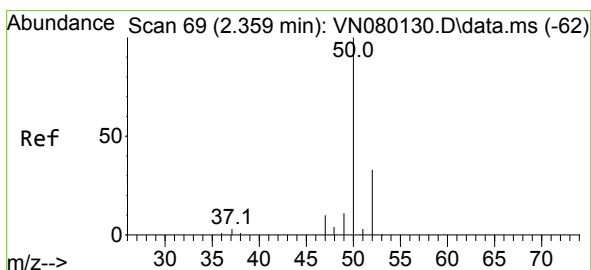
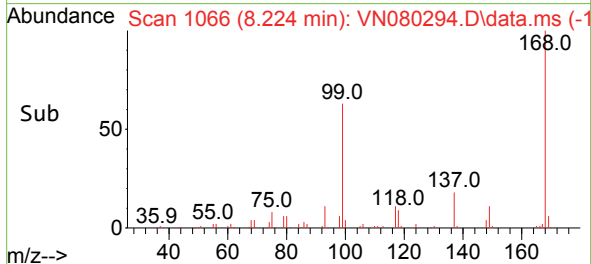
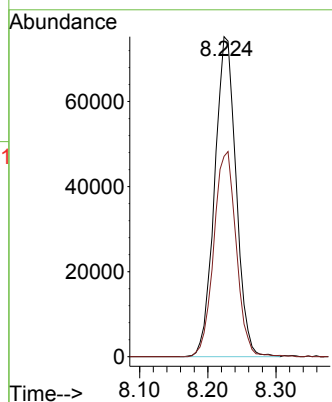


Tgt Ion:168 Resp: 164861

Ion Ratio Lower Upper

168 100

99 62.6 53.0 79.6



#3

Chloromethane

Concen: 0.216 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080294.D

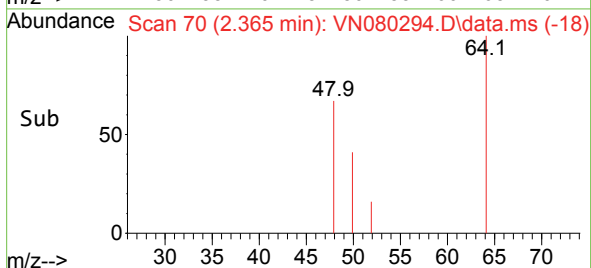
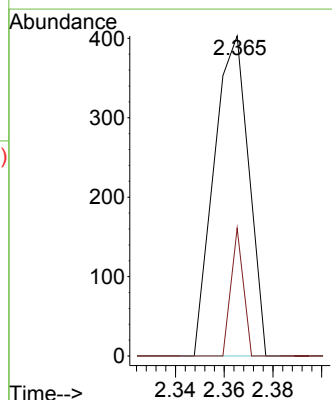
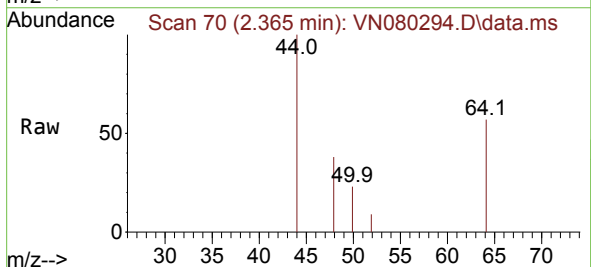
Acq: 28 Nov 2023 14:04

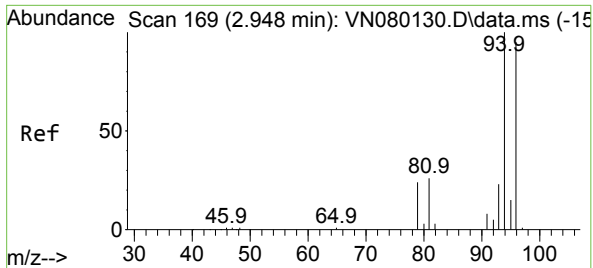
Tgt Ion: 50 Resp: 398

Ion Ratio Lower Upper

50 100

52 40.0 26.5 39.7#

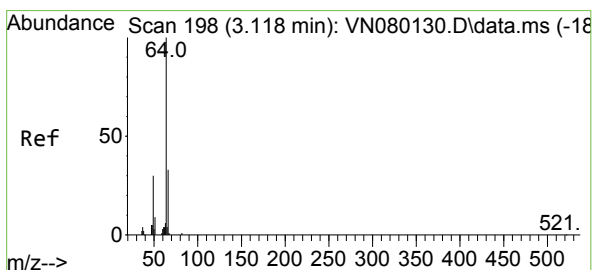
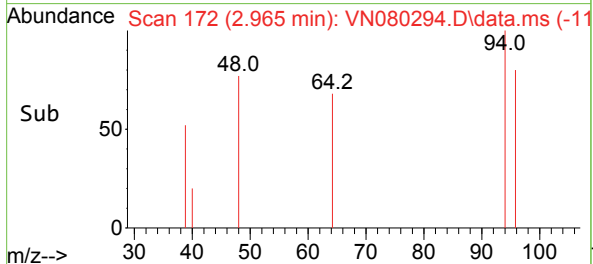
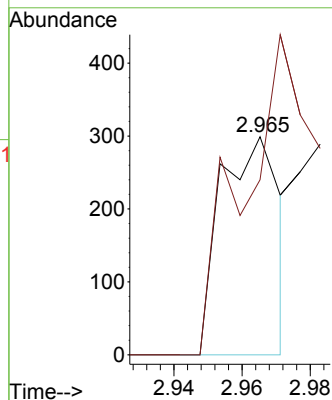
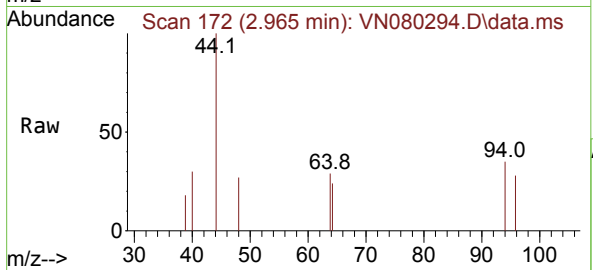




#5
Bromomethane
Concen: 0.271 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

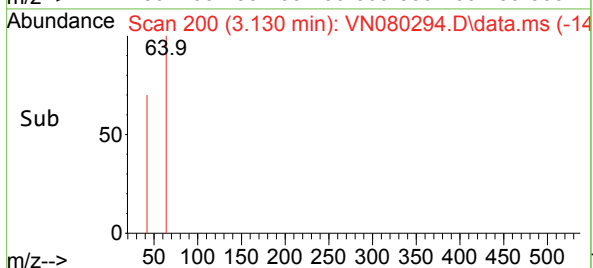
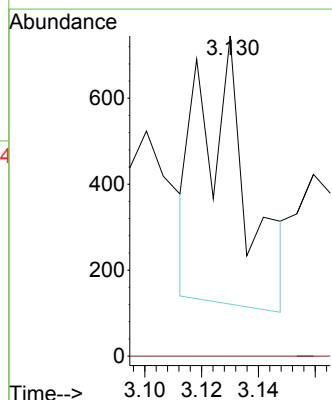
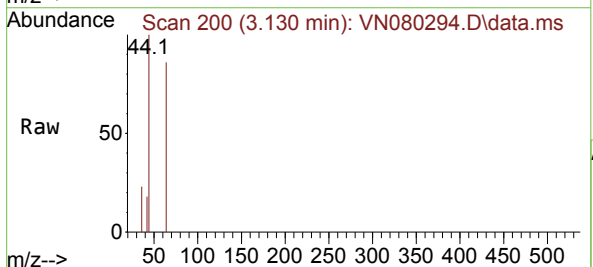
Instrument :
MSVOA_N
ClientSampleId :

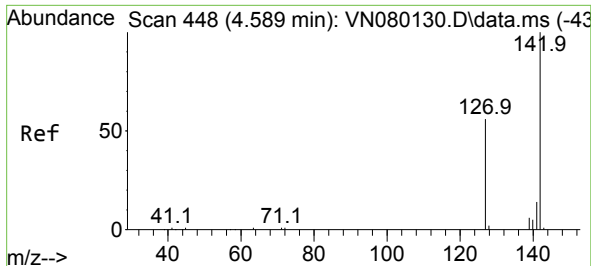
Tgt Ion: 94 Resp: 360
Ion Ratio Lower Upper
94 100
96 80.3 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Tgt Ion: 64 Resp: 687
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

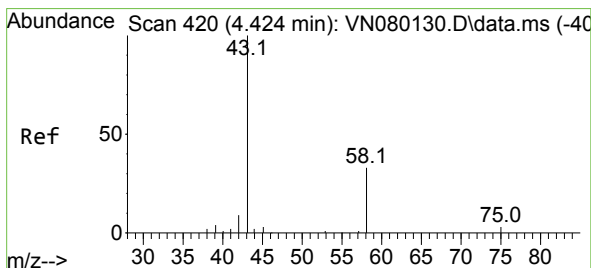
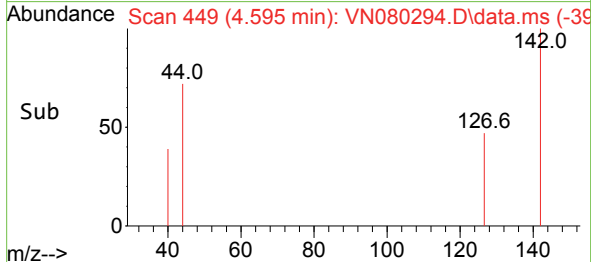
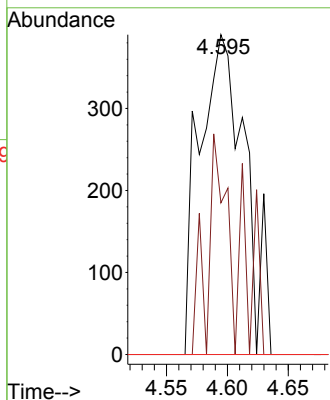
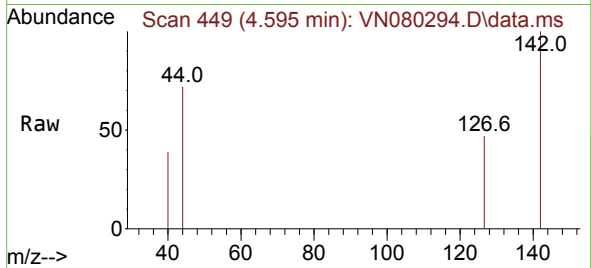




#10
Methyl Iodide
Concen: 0.507 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

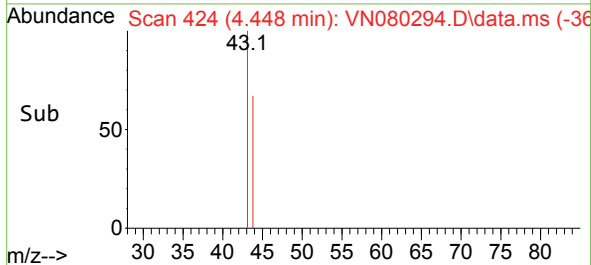
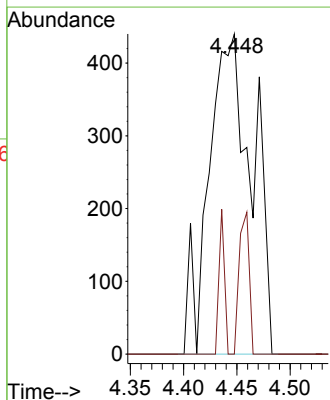
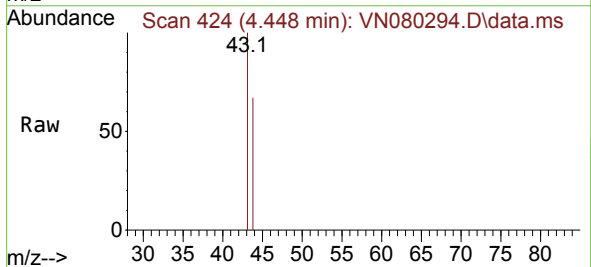
Instrument :
MSVOA_N
ClientSampleId :

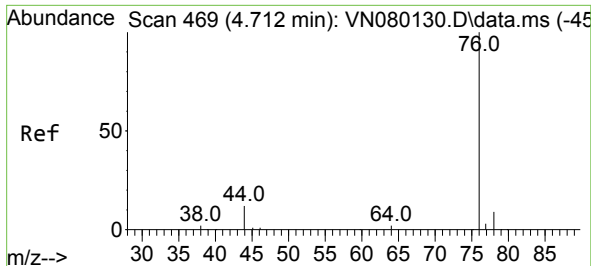
Tgt Ion:142 Resp: 1020
Ion Ratio Lower Upper
142 100
127 47.4 37.6 56.4
141 0.0 11.4 17.0#



#16
Acetone
Concen: 1.370 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.024 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

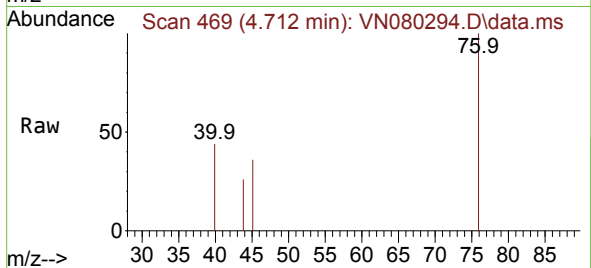
Tgt Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



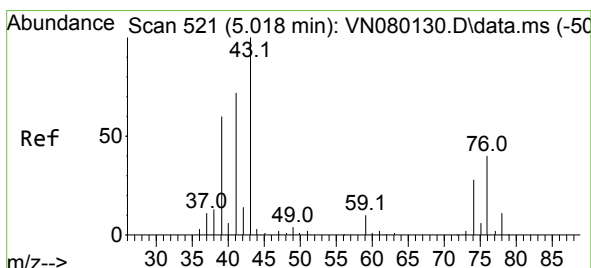
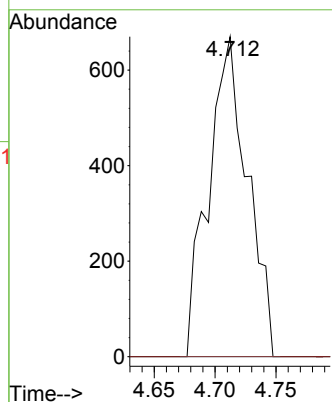
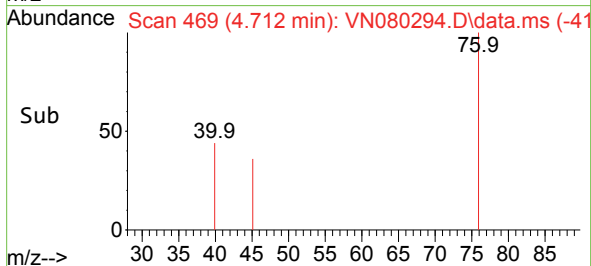


#17
Carbon Disulfide
Concen: 0.287 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

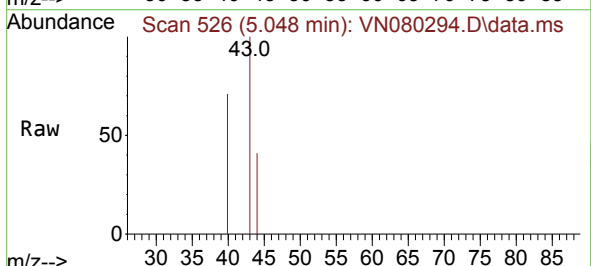
Instrument :
MSVOA_N
ClientSampleId :



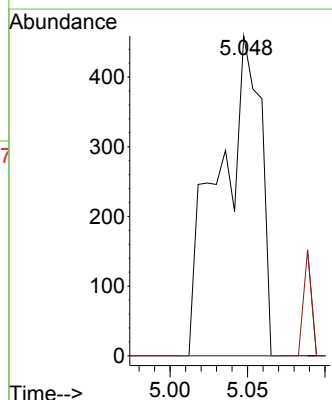
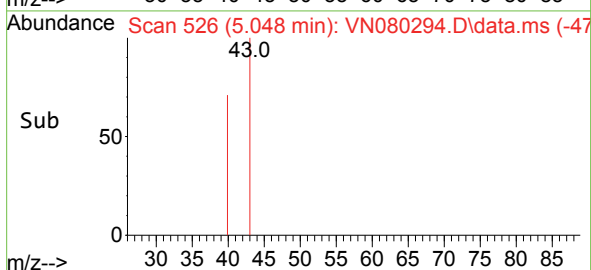
Tgt Ion: 76 Resp: 1493
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

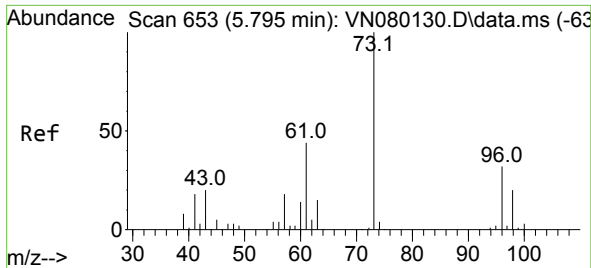


#18
Methyl Acetate
Concen: 0.295 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.029 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04



Tgt Ion: 43 Resp: 866
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#

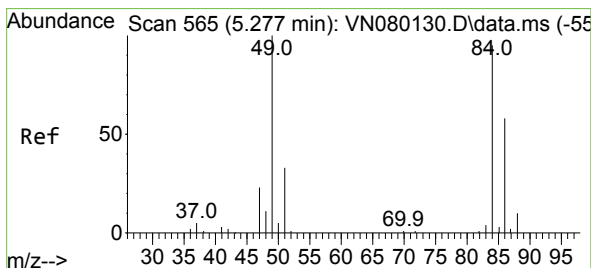
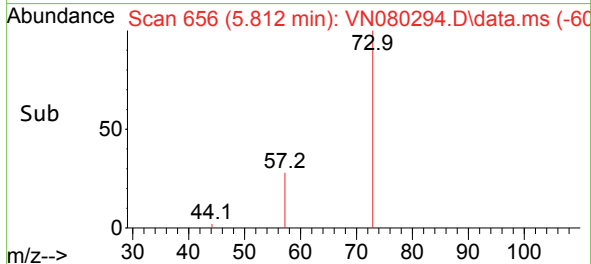
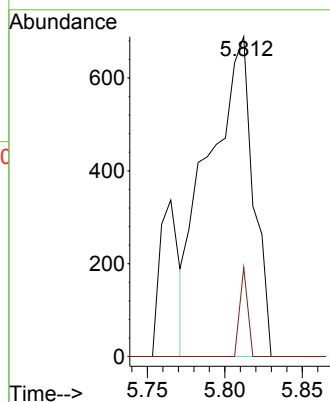
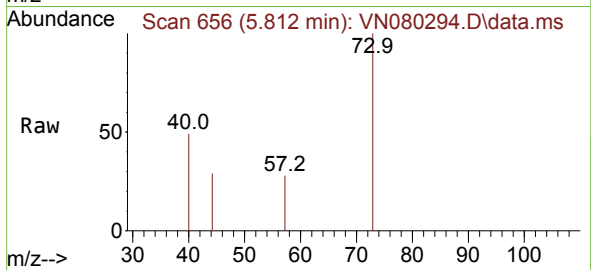




#19
Methyl tert-butyl Ether
Concen: 0.227 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.018 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

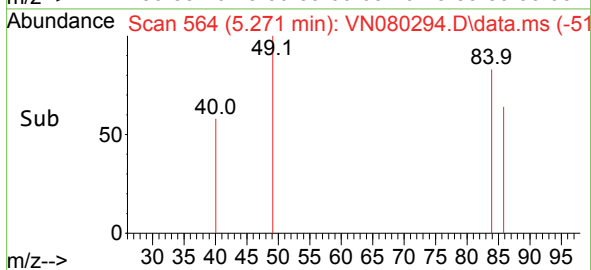
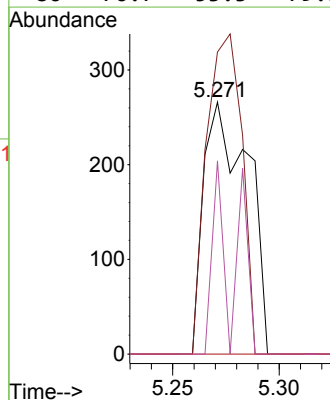
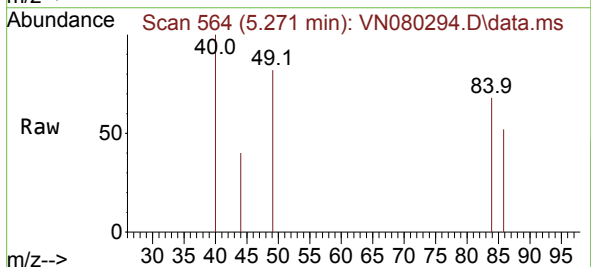
Instrument :
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ClientSampleId :

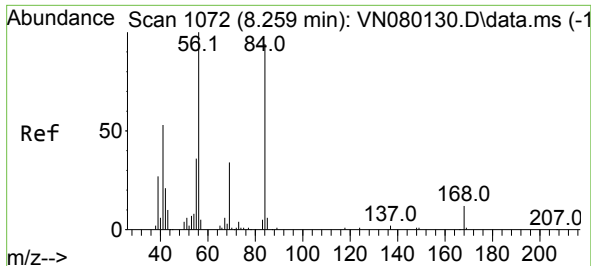
Tgt Ion: 73 Resp: 1398
Ion Ratio Lower Upper
73 100
57 27.9 15.6 23.4#



#20
Methylene Chloride
Concen: 0.201 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

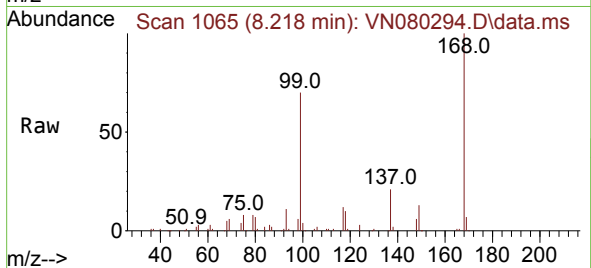
Tgt Ion: 84 Resp: 384
Ion Ratio Lower Upper
84 100
49 119.9 79.7 119.5#
51 0.0 25.2 37.8#
86 76.7 53.3 79.9



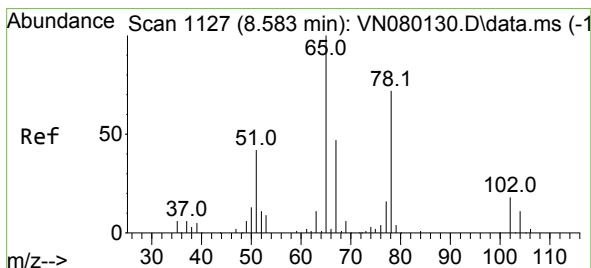
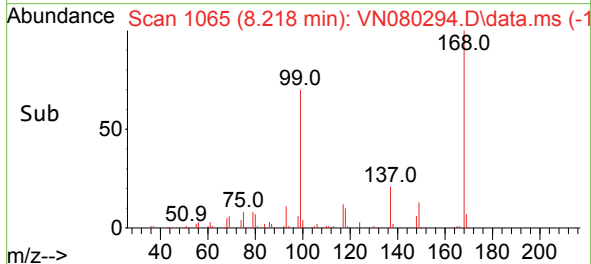
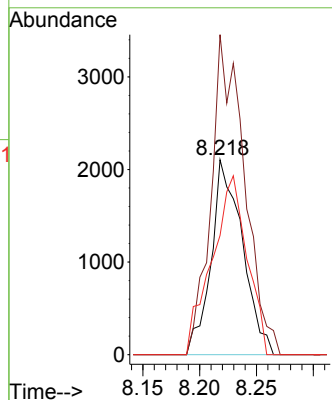


#31
Cyclohexane
Concen: 1.357 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

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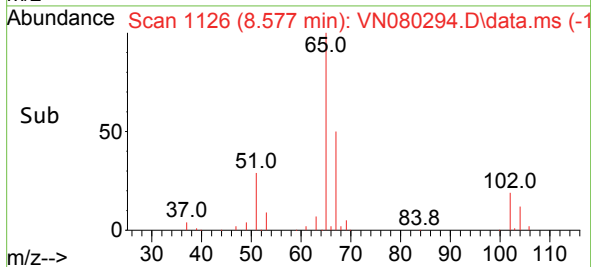
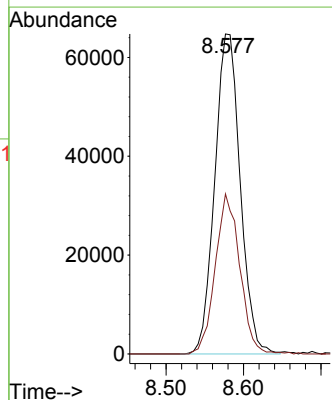
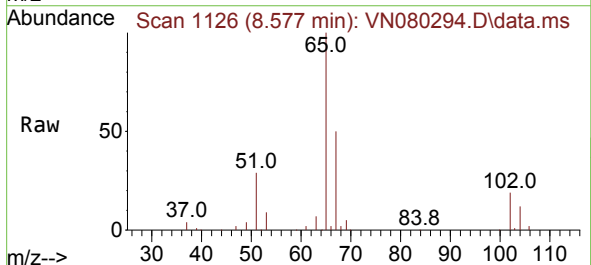


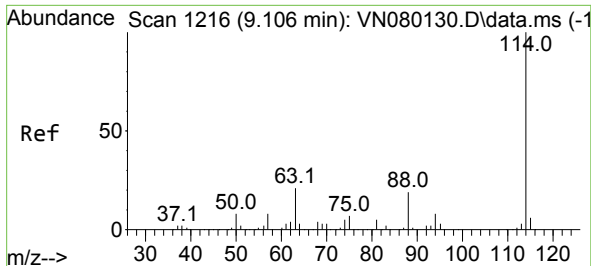
Tgt Ion: 56 Resp: 4016
Ion Ratio Lower Upper
56 100
69 164.2 26.8 40.2#
84 61.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.376 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Tgt Ion: 65 Resp: 148018
Ion Ratio Lower Upper
65 100
67 48.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

Instrument :

MSVOA_N

ClientSampleId :

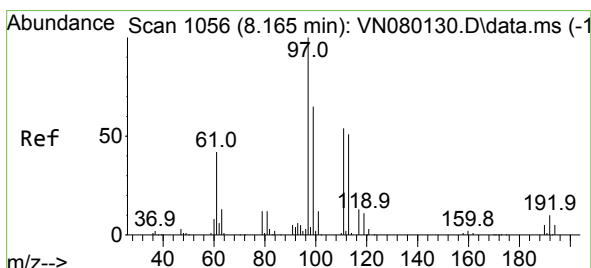
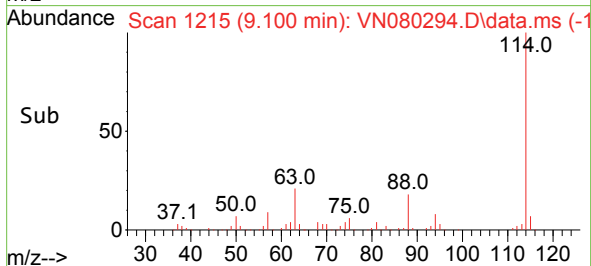
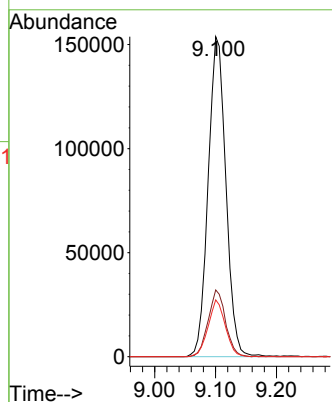
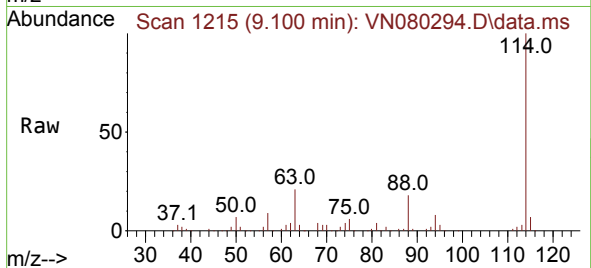
Tgt Ion:114 Resp: 311050

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 17.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.590 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

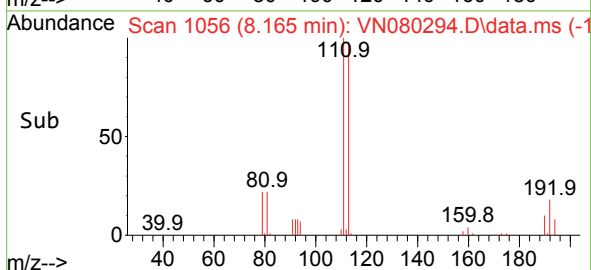
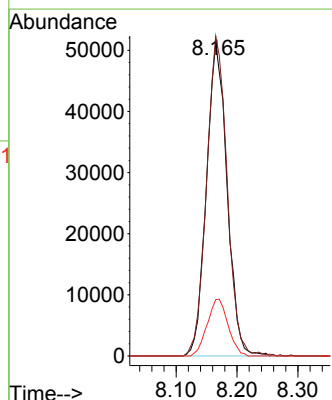
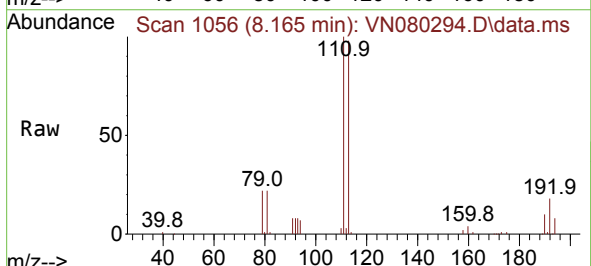
Tgt Ion:113 Resp: 120701

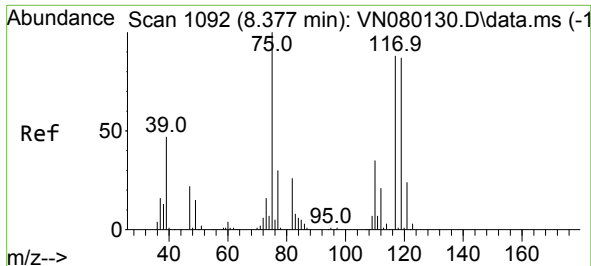
Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

192 18.3 12.7 19.1

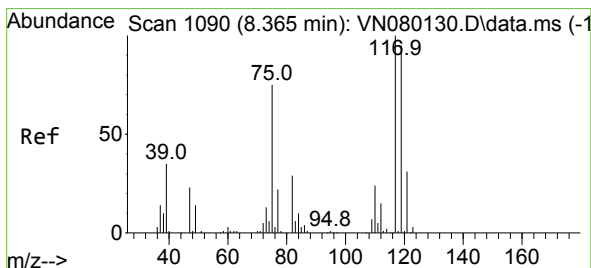
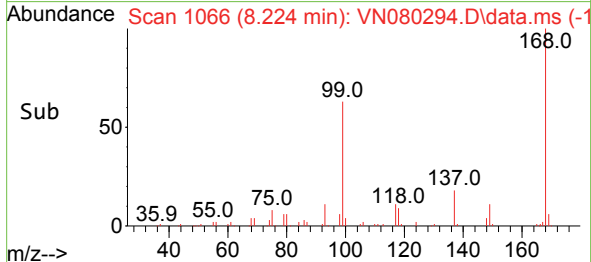
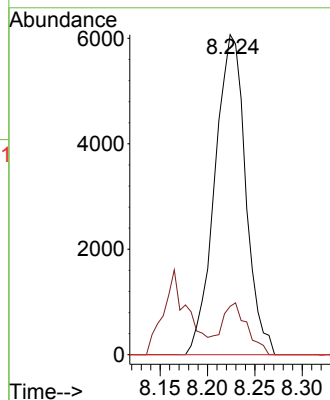
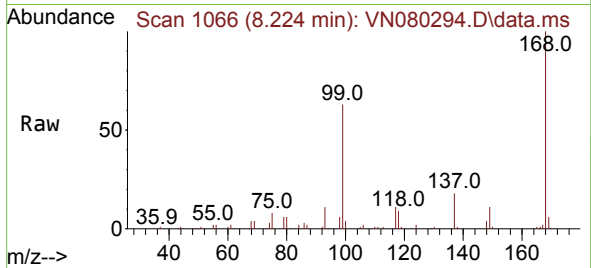




#36
1,1-Dichloropropene
Concen: 4.133 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

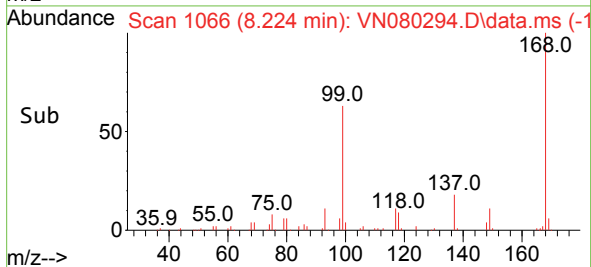
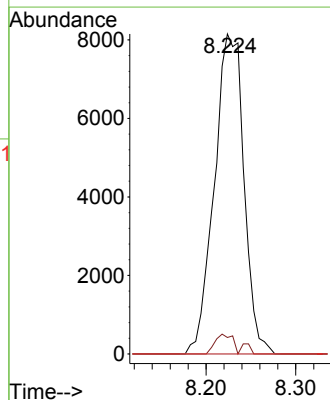
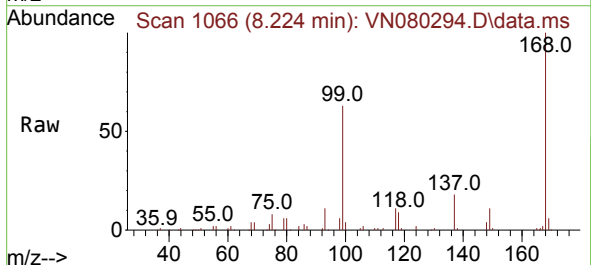
Instrument :
MSVOA_N
ClientSampleId :

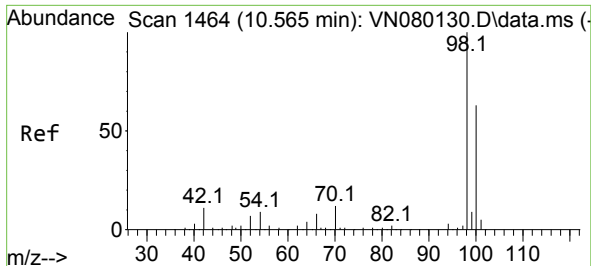
Tgt Ion: 75 Resp: 13732
Ion Ratio Lower Upper
75 100
110 13.8 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 4.426 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Tgt Ion: 117 Resp: 18664
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#

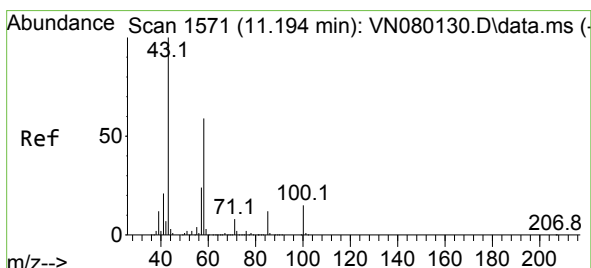
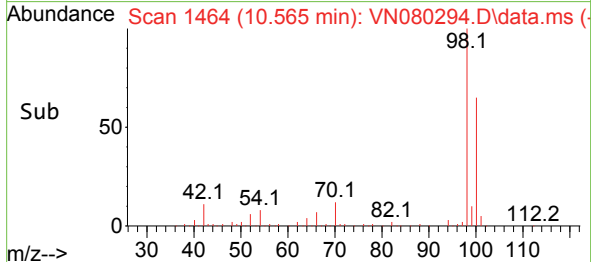
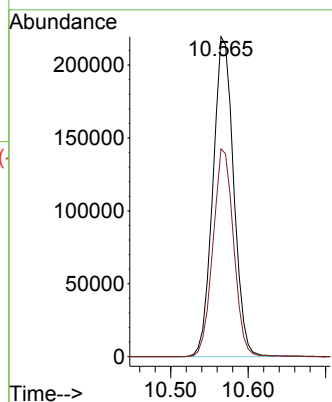
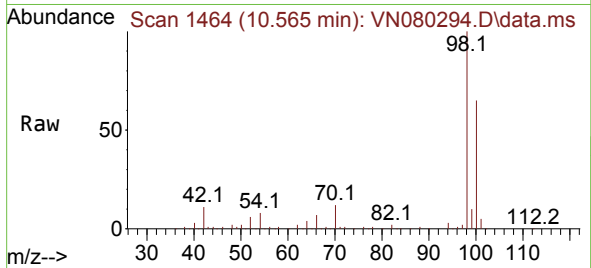




#50
Toluene-d8
Concen: 49.277 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

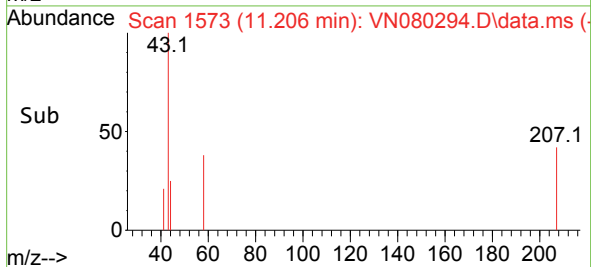
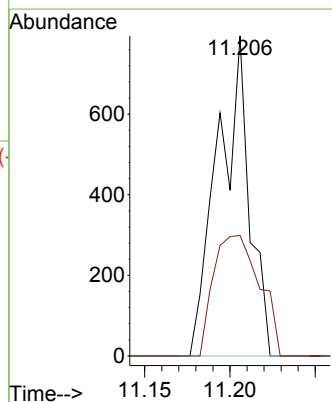
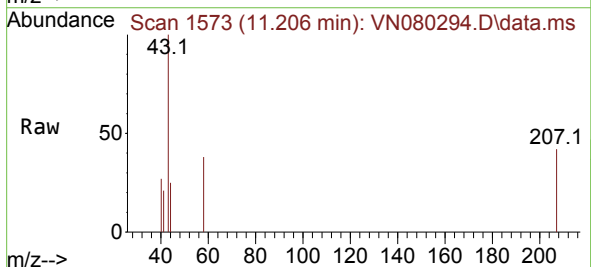
Instrument :
MSVOA_N
ClientSampleId :

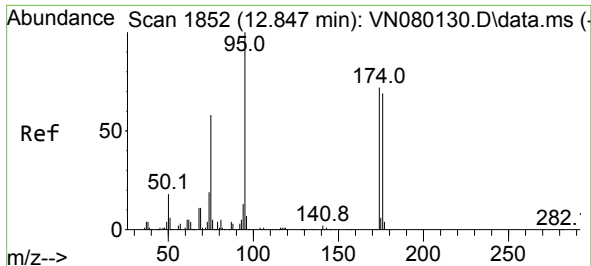
Tgt Ion: 98 Resp: 407695
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#59
2-Hexanone
Concen: 0.547 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Tgt Ion: 43 Resp: 1020
Ion Ratio Lower Upper
43 100
58 55.2 31.7 95.1

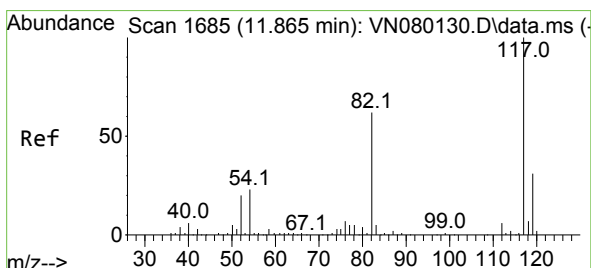
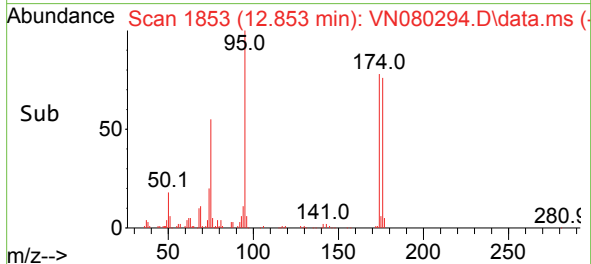
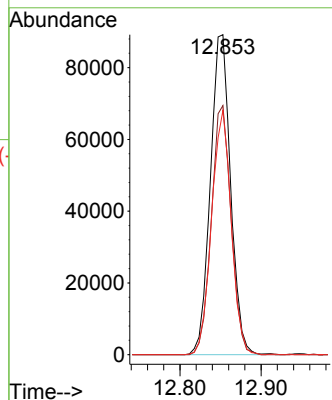
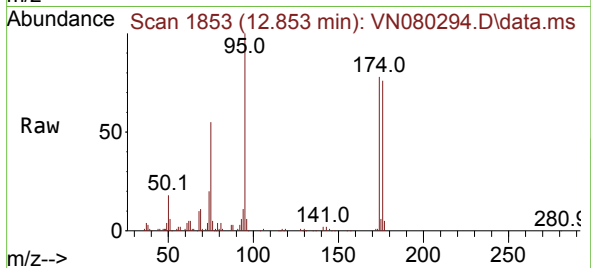




#62
4-Bromofluorobenzene
Concen: 49.286 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

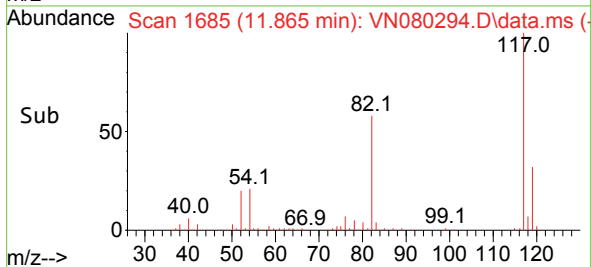
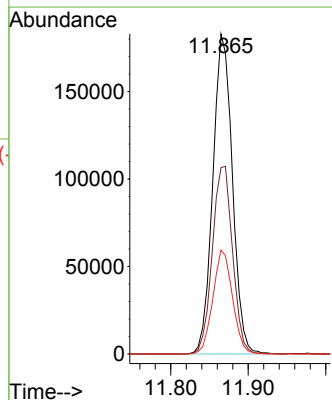
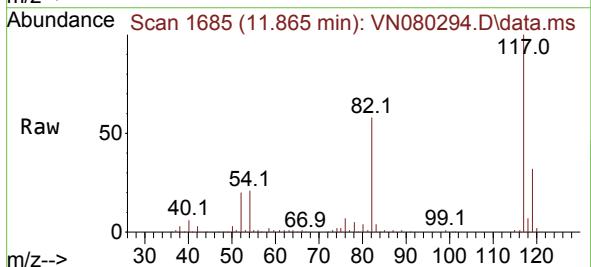
Instrument :
MSVOA_N
ClientSampleId :

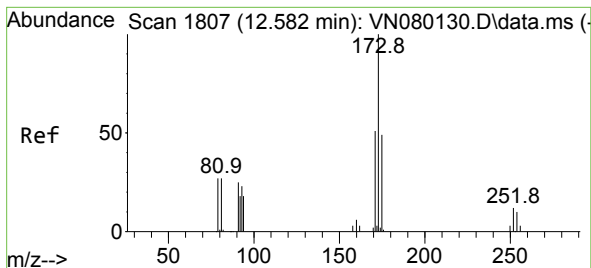
Tgt Ion: 95 Resp: 154022
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 74.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Tgt Ion: 117 Resp: 320709
Ion Ratio Lower Upper
117 100
82 58.2 44.0 66.0
119 32.5 25.6 38.4





#71

Bromoform

Concen: 0.514 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

Instrument :

MSVOA_N

ClientSampleId :

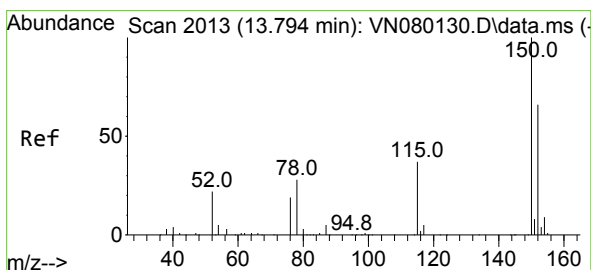
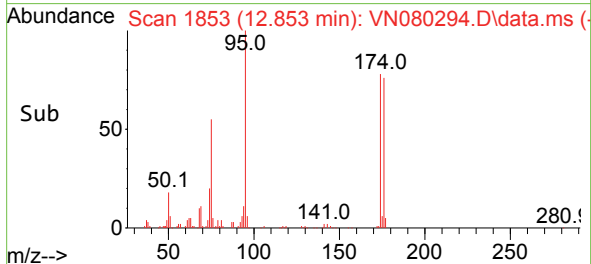
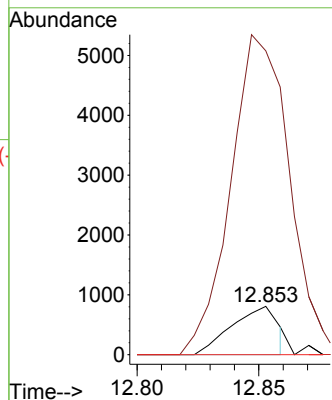
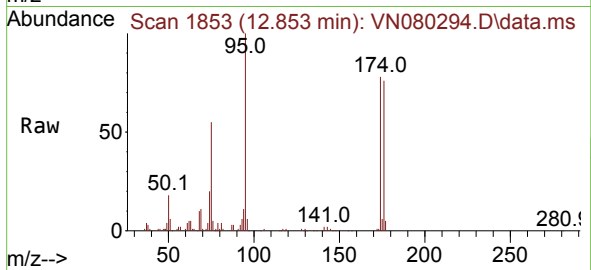
Tgt Ion:173 Resp: 1075

Ion Ratio Lower Upper

173 100

175 709.5 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

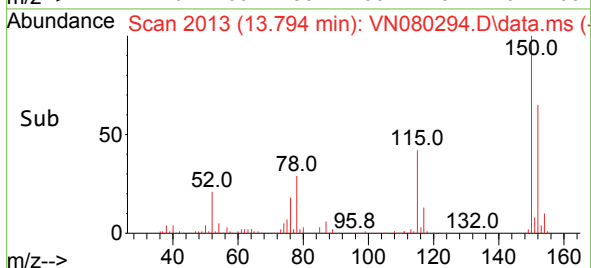
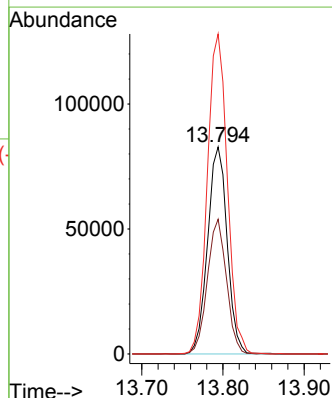
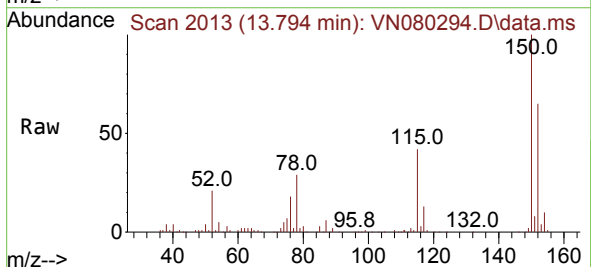
Tgt Ion:152 Resp: 138555

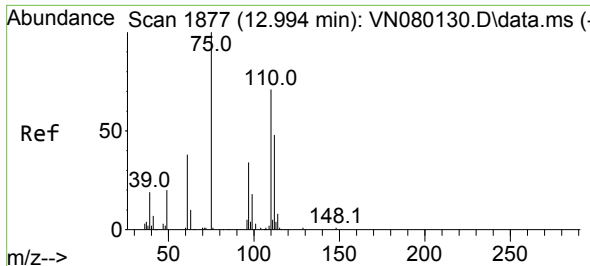
Ion Ratio Lower Upper

152 100

115 63.6 32.3 96.8

150 157.5 0.0 355.8

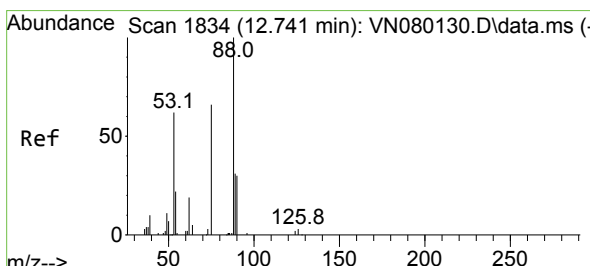
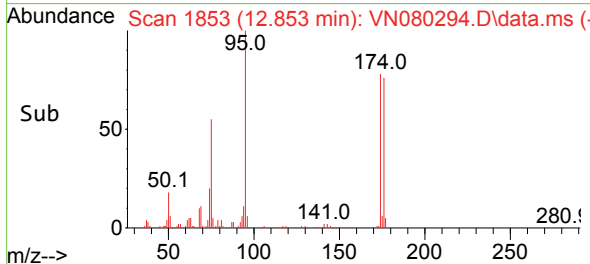
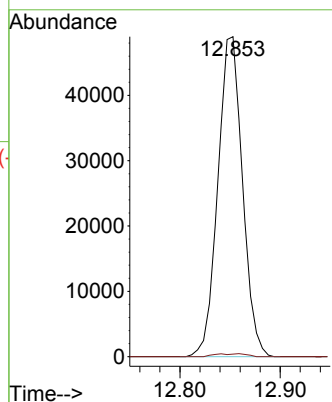
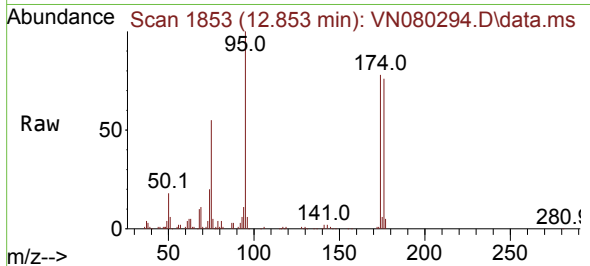




#76
 1,2,3-Trichloropropane
 Concen: 24.606 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN080294.D
 Acq: 28 Nov 2023 14:04

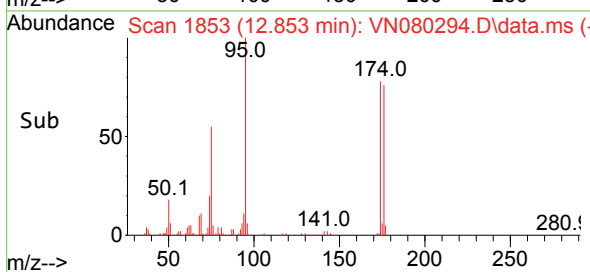
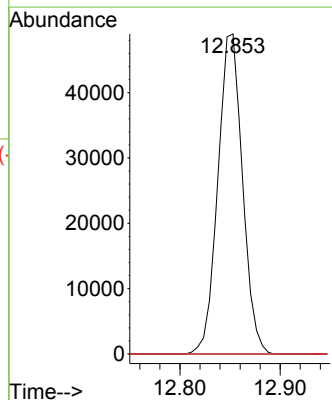
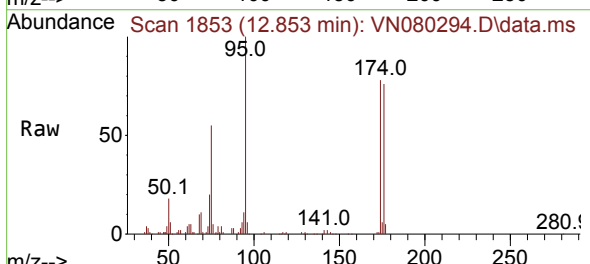
Instrument :
 MSVOA_N
 ClientSampleId :

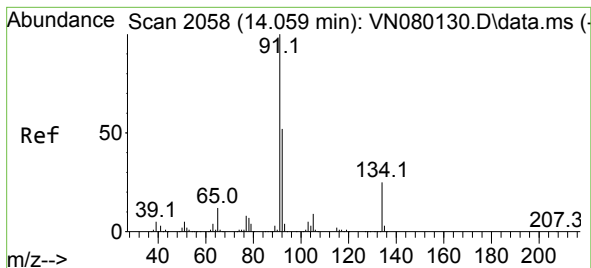
Tgt Ion: 75 Resp: 83533
 Ion Ratio Lower Upper
 75 100
 77 0.6 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.133 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN080294.D
 Acq: 28 Nov 2023 14:04

Tgt Ion: 75 Resp: 83533
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#





#89

n-Butylbenzene

Concen: 0.344 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN080294.D

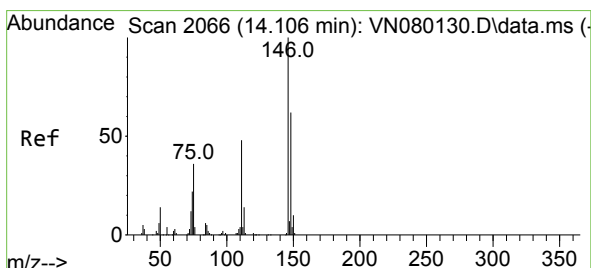
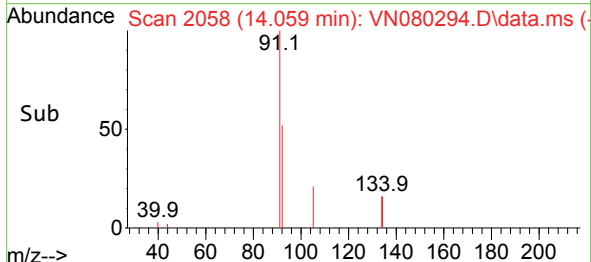
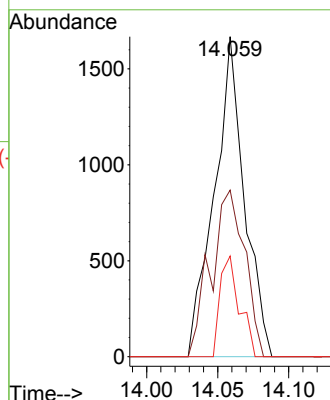
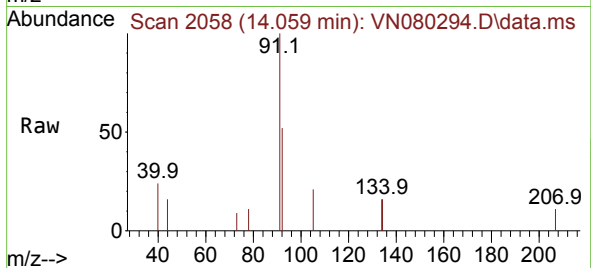
Acq: 28 Nov 2023 14:04

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	2448
Ion	Ratio	Lower Upper
91	100	
92	58.7	26.4 79.0
134	20.3	12.6 37.6



#91

1,2-Dichlorobenzene

Concen: 0.265 ug/l

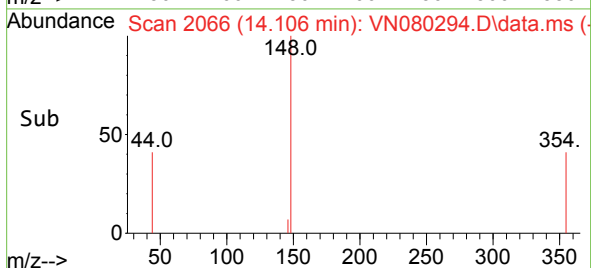
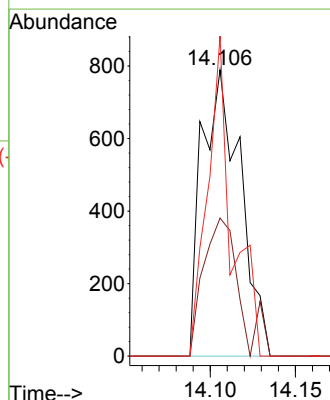
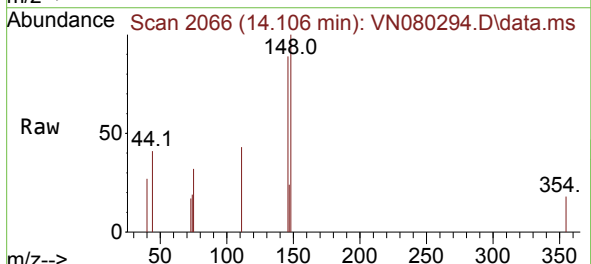
RT: 14.106 min Scan# 2066

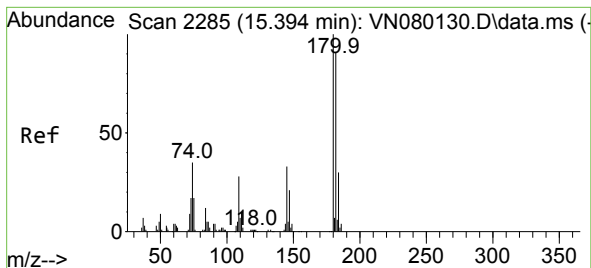
Delta R.T. -0.000 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

Tgt Ion: 146	Resp:	1242
Ion	Ratio	Lower Upper
146	100	
111	44.3	22.0 66.0
148	70.9	31.8 95.3





#93

1,2,4-Trichlorobenzene

Concen: 0.712 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. -0.000 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

Instrument :

MSVOA_N

ClientSampleId :

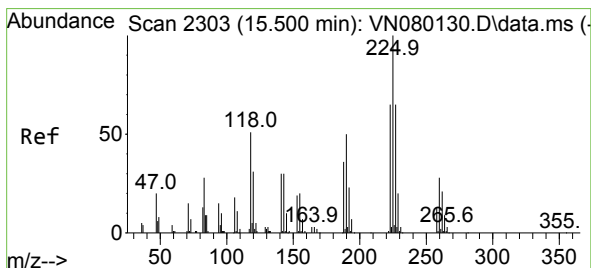
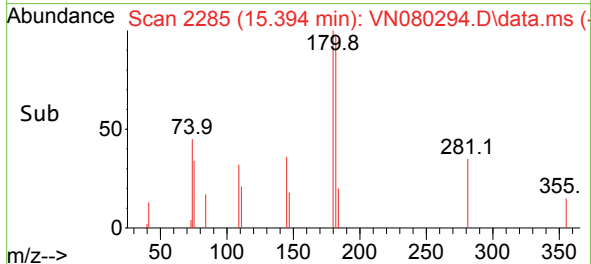
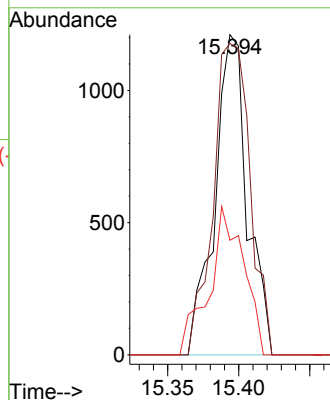
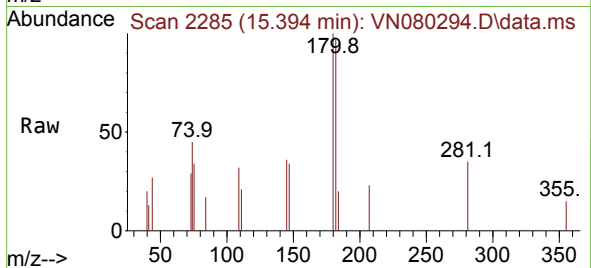
Tgt Ion:180 Resp: 1937

Ion Ratio Lower Upper

180 100

182 110.1 46.1 138.2

145 49.1 16.6 49.8



#94

Hexachlorobutadiene

Concen: 0.776 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN080294.D

Acq: 28 Nov 2023 14:04

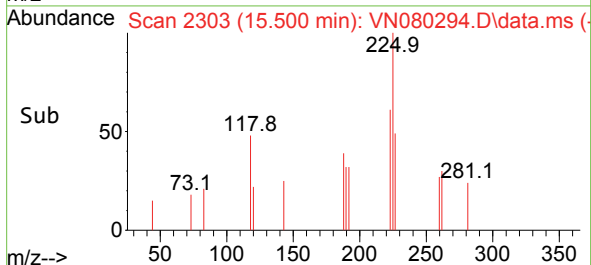
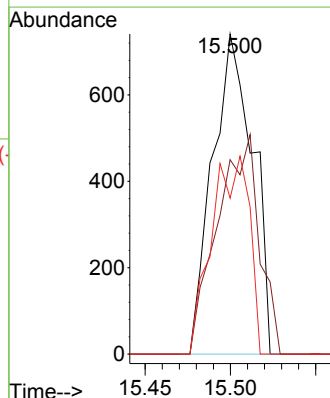
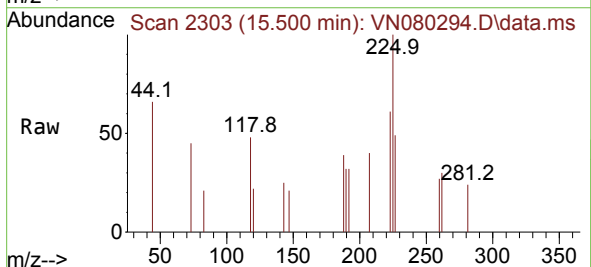
Tgt Ion:225 Resp: 1216

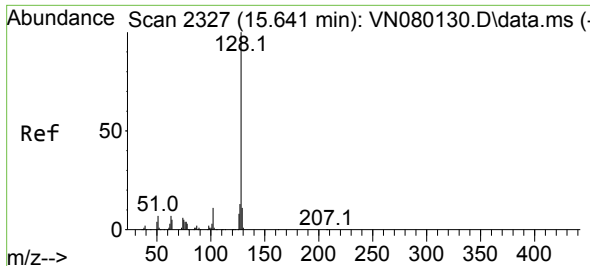
Ion Ratio Lower Upper

225 100

223 71.2 31.3 93.8

227 58.1 31.9 95.9

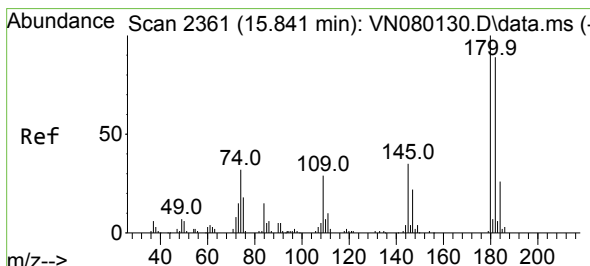
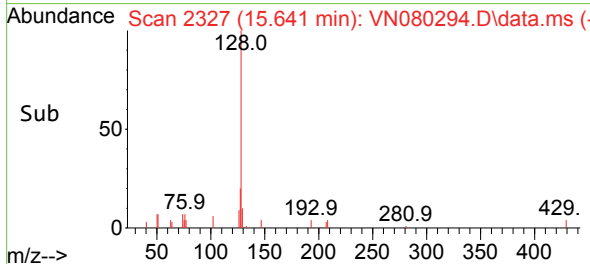
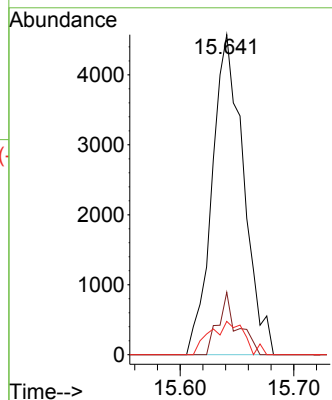
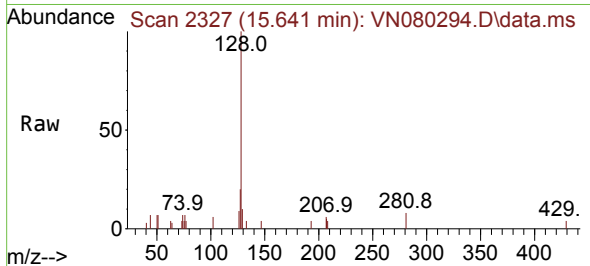




#95
Naphthalene
Concen: 1.112 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.0	15.0
129	11.4	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.099 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN080294.D
Acq: 28 Nov 2023 14:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.7	46.2	138.6
145	34.7	17.5	52.6

