

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120823\
 Data File : VN080410.D
 Acq On : 08 Dec 2023 16:46
 Operator : JC\MD
 Sample : 05729-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 08 22:41:59 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)

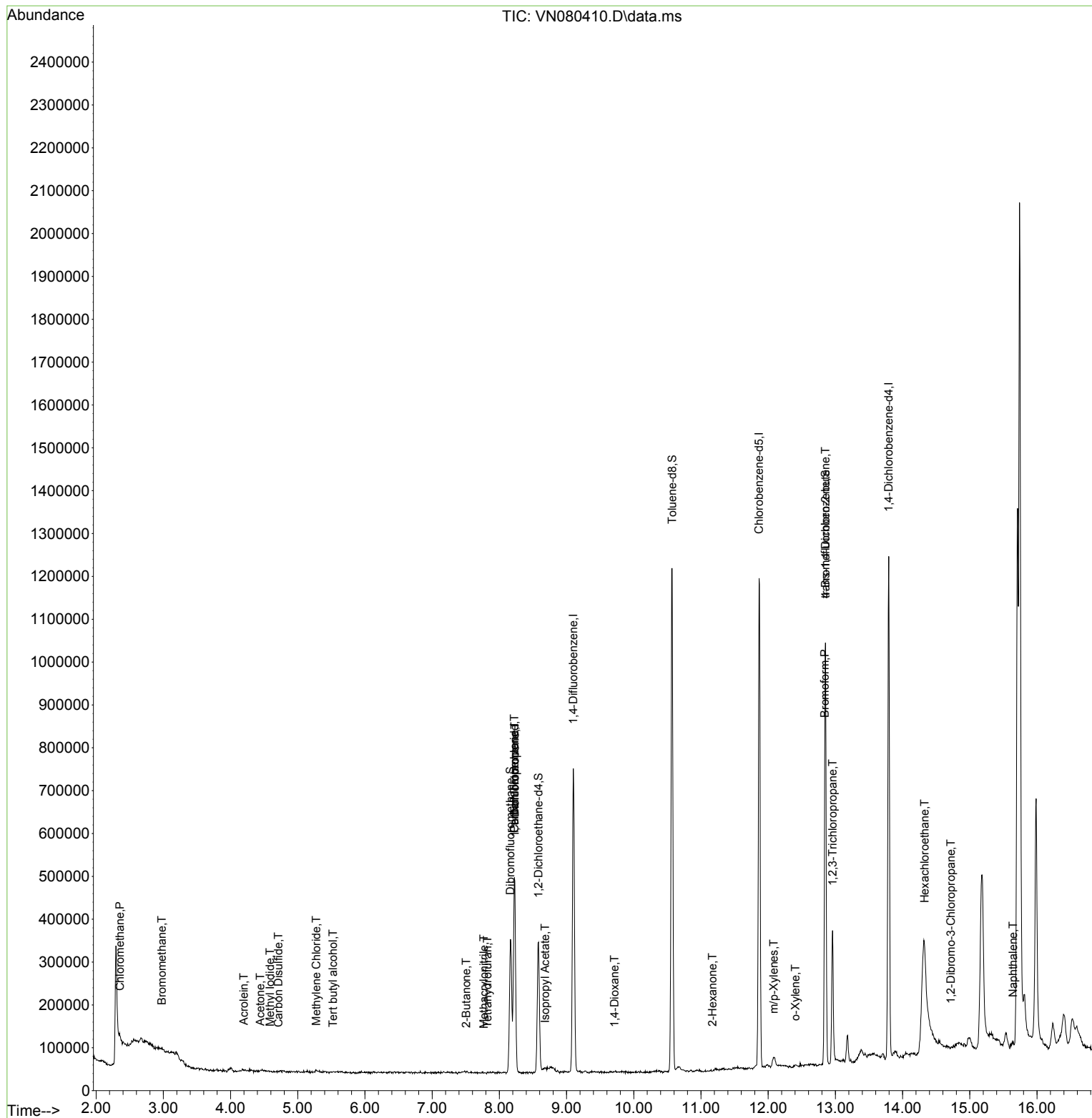
Internal Standards						
1) Pentafluorobenzene	8.224	168	324491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	607966	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	668851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	313245	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	264581	49.382	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.760%		
35) Dibromofluoromethane	8.165	113	222016	49.491	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.980%		
50) Toluene-d8	10.570	98	825217	51.030	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.060%		
62) 4-Bromofluorobenzene	12.853	95	359529	58.861	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	117.720%		
Target Compounds					Qvalue	
3) Chloromethane	2.353	50	8864	2.439	ug/l	95
5) Bromomethane	2.977	94	760	0.291	ug/l #	63
6) Chloroethane	3.359	64	636	Below Cal	#	43
10) Methyl Iodide	4.589	142	878	0.222	ug/l #	75
11) Tert butyl alcohol	5.524	59	727	1.234	ug/l #	23
13) Acrolein	4.200	56	6274	12.032	ug/l #	54
16) Acetone	4.441	43	2168	1.205	ug/l #	73
17) Carbon Disulfide	4.712	76	2295	0.224	ug/l #	75
20) Methylene Chloride	5.277	84	2102	0.558	ug/l #	60
25) 2-Butanone	7.506	43	3736	1.747	ug/l #	70
29) Tetrahydrofuran	7.824	42	307	0.267	ug/l #	48
36) 1,1-Dichloropropene	8.229	75	26377	4.061	ug/l #	49
38) Carbon Tetrachloride	8.224	117	37238	4.518	ug/l #	16
41) Methacrylonitrile	7.771	41	495	0.200	ug/l #	1
43) Isopropyl Acetate	8.682	43	12291	1.402	ug/l #	51
49) 1,4-Dioxane	9.712	88	2654	35.312	ug/l #	36
59) 2-Hexanone	11.170	43	795	0.218	ug/l	86
68) m/p-Xylenes	12.082	106	8809	0.896	ug/l	87
69) o-Xylene	12.406	106	1927	0.208	ug/l	85
71) Bromoform	12.841	173	1180	0.271	ug/l #	1
76) 1,2,3-Trichloropropane	12.959	75	7476	0.974	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	190498	83.858	ug/l #	15
90) Hexachloroethane	14.329	117	833	0.223	ug/l #	31
92) 1,2-Dibromo-3-Chloropr...	14.717	75	345	0.204	ug/l #	4
95) Naphthalene	15.647	128	3875	0.217	ug/l #	30

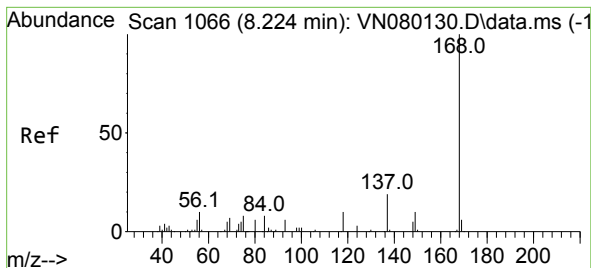
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1066

Delta R.T. -0.000 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Instrument :

MSVOA_N

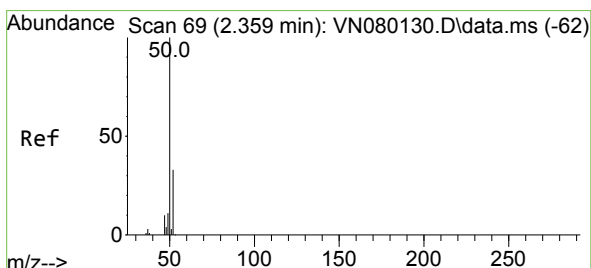
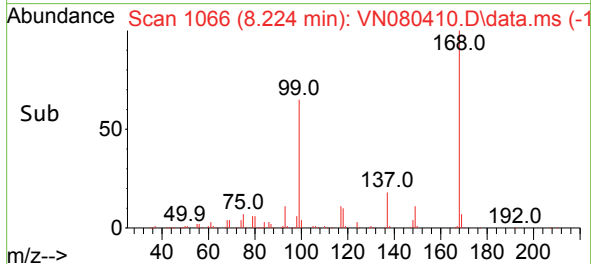
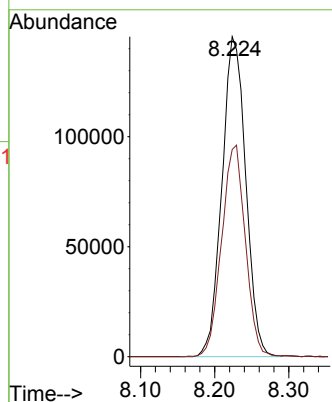
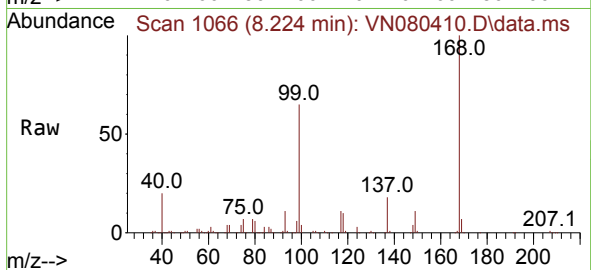
ClientSampleId :

Tgt Ion:168 Resp: 324491

Ion Ratio Lower Upper

168 100

99 64.7 53.0 79.6



#3

Chloromethane

Concen: 2.439 ug/l

RT: 2.353 min Scan# 68

Delta R.T. -0.006 min

Lab File: VN080410.D

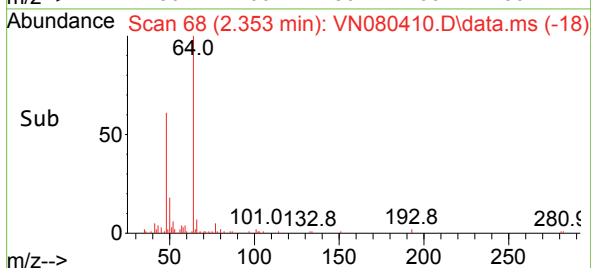
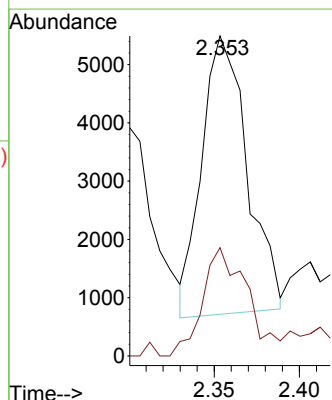
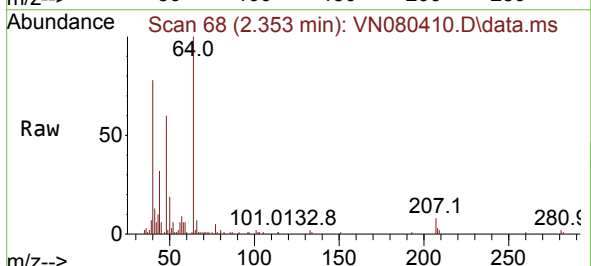
Acq: 08 Dec 2023 16:46

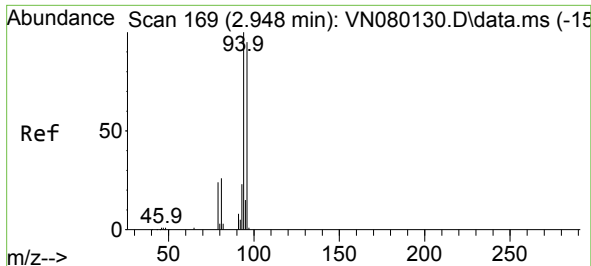
Tgt Ion: 50 Resp: 8864

Ion Ratio Lower Upper

50 100

52 35.8 26.5 39.7

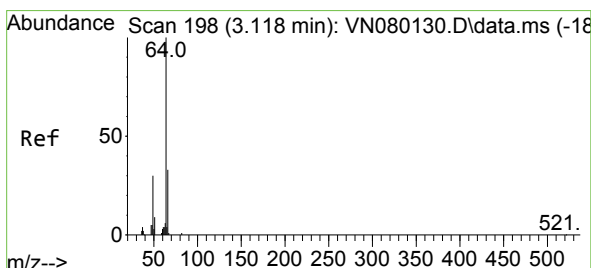
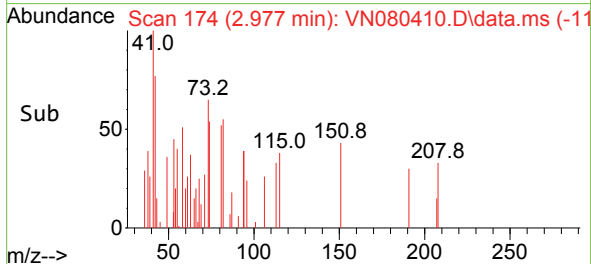
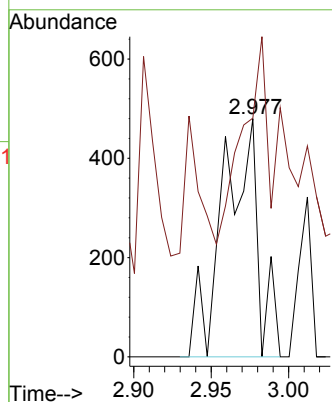
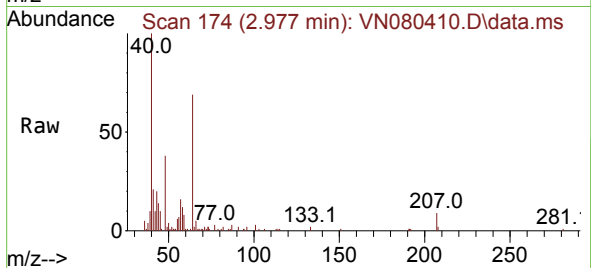




#5
Bromomethane
Concen: 0.291 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

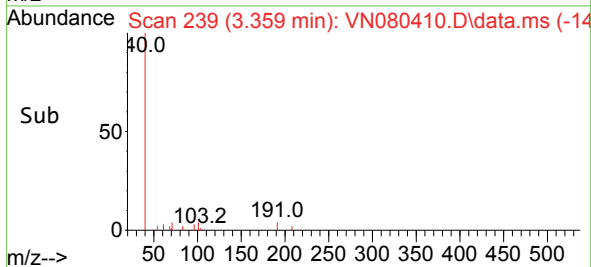
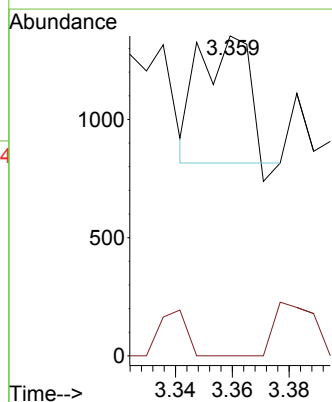
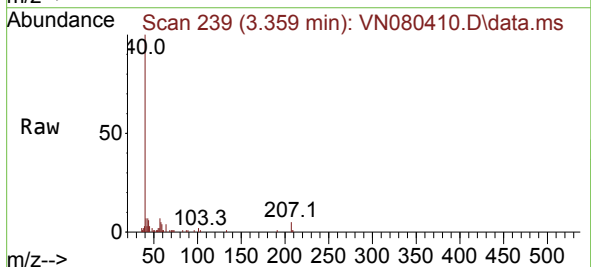
Instrument :
MSVOA_N
ClientSampleId :

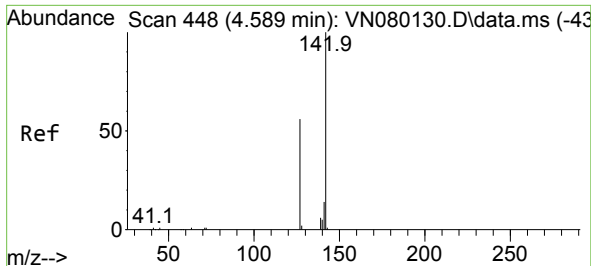
Tgt Ion: 94 Resp: 760
Ion Ratio Lower Upper
94 100
96 56.7 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.359 min Scan# 239
Delta R.T. 0.241 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 64 Resp: 636
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

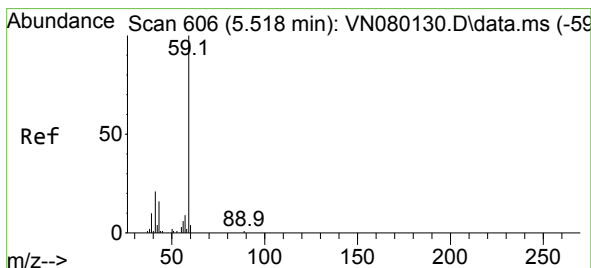
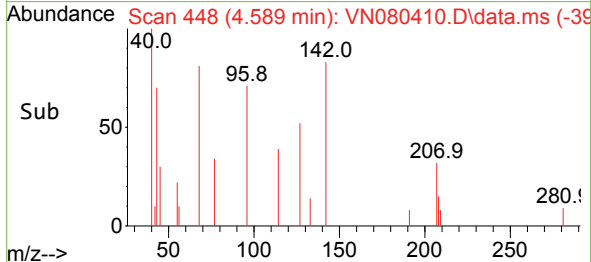
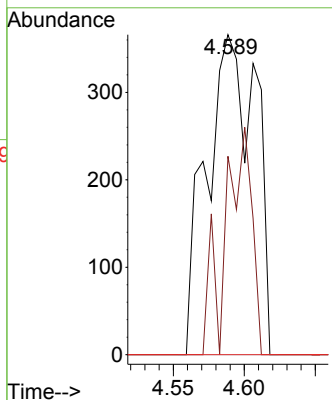
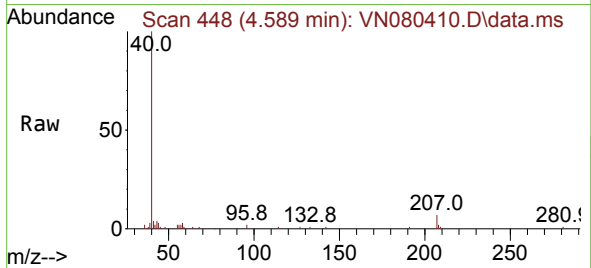




#10
Methyl Iodide
Concen: 0.222 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

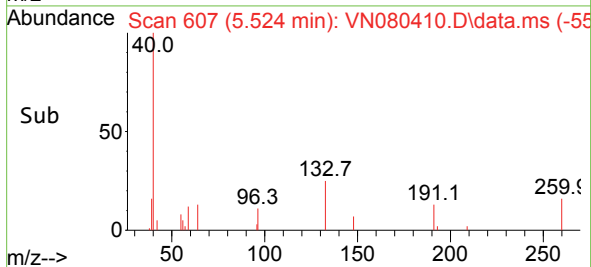
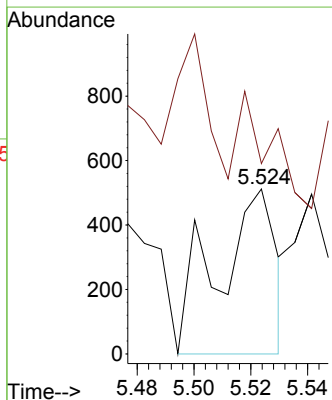
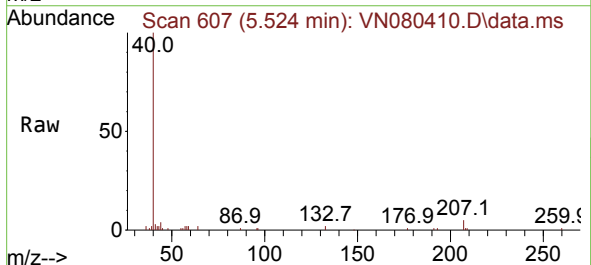
Instrument :
MSVOA_N
ClientSampleId :

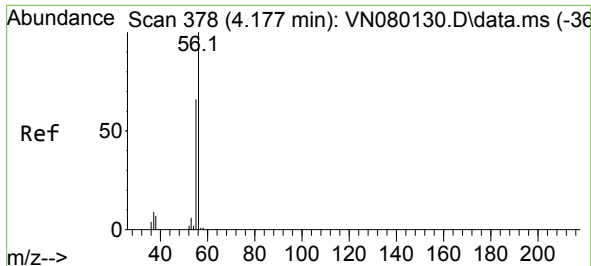
Tgt Ion:142 Resp: 878
Ion Ratio Lower Upper
142 100
127 62.0 37.6 56.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.234 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 59 Resp: 727
Ion Ratio Lower Upper
59 100
57 38.9 8.2 12.4#





#13

Acrolein

Concen: 12.032 ug/l

RT: 4.200 min Scan# 382

Delta R.T. 0.023 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Instrument :

MSVOA_N

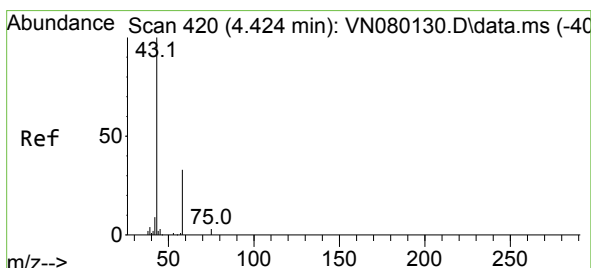
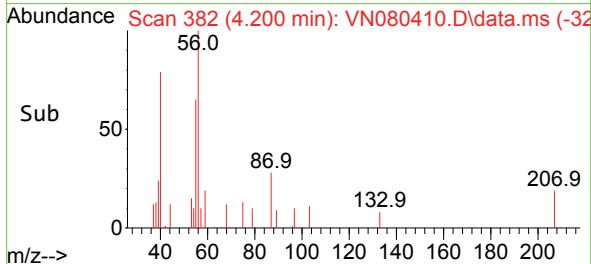
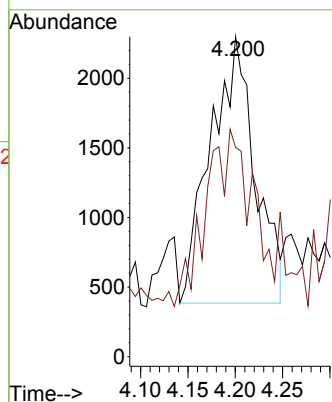
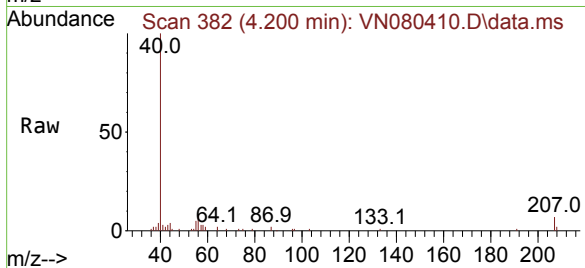
ClientSampleId :

Tgt Ion: 56 Resp: 6274

Ion Ratio Lower Upper

56 100

55 31.1 54.5 81.7#



#16

Acetone

Concen: 1.205 ug/l

RT: 4.441 min Scan# 423

Delta R.T. 0.017 min

Lab File: VN080410.D

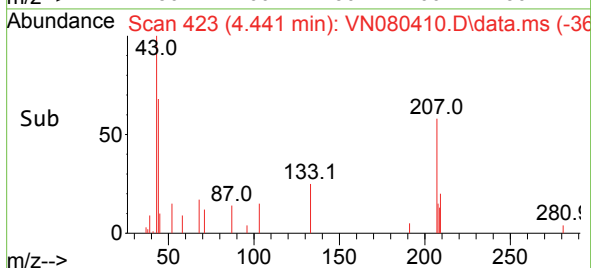
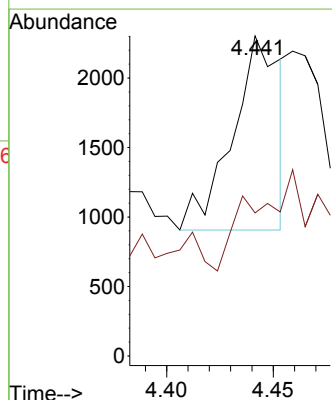
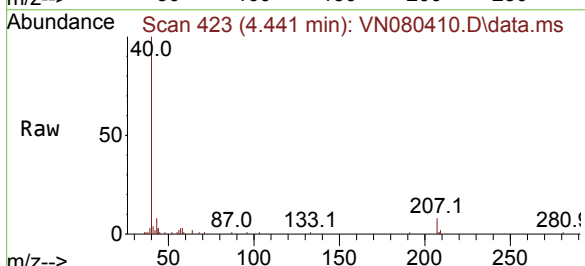
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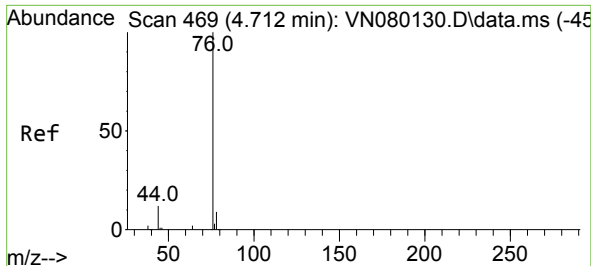
Tgt Ion: 43 Resp: 2168

Ion Ratio Lower Upper

43 100

58 19.1 28.0 42.0#

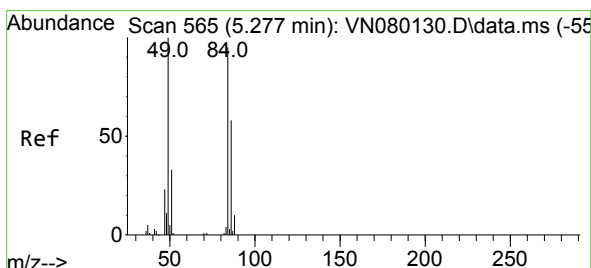
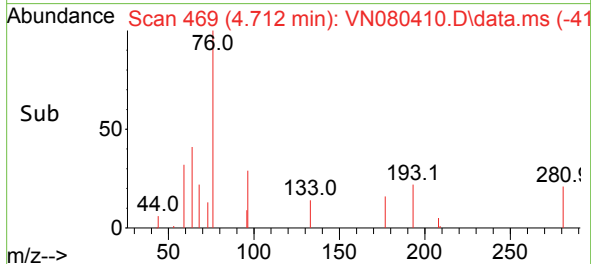
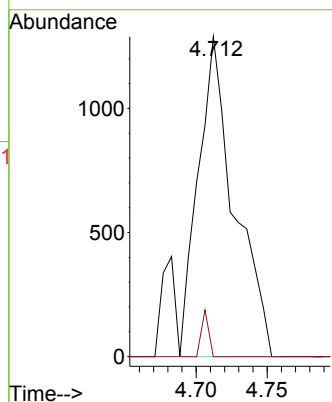
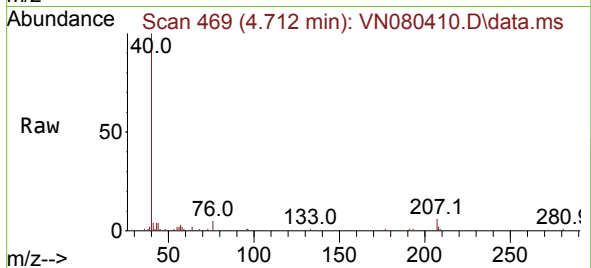




#17
Carbon Disulfide
Concen: 0.224 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

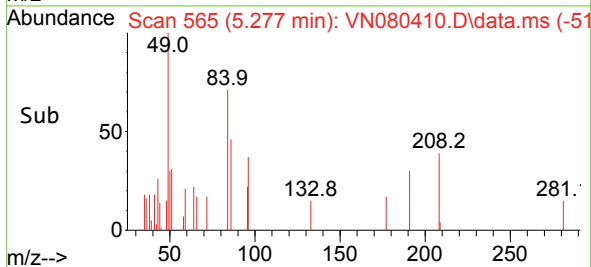
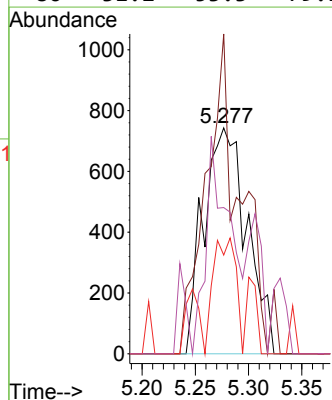
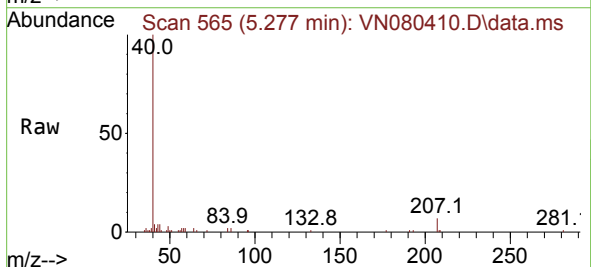
Instrument :
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ClientSampleId :

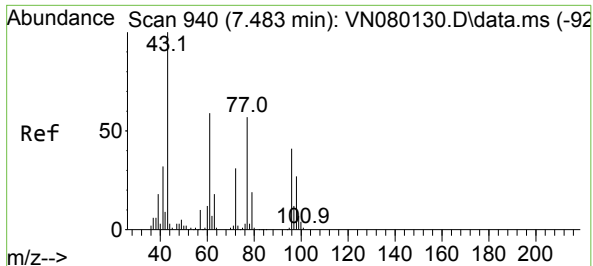
Tgt Ion: 76 Resp: 2295
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 0.558 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 84 Resp: 2102
Ion Ratio Lower Upper
84 100
49 141.6 79.7 119.5#
51 43.7 25.2 37.8#
86 31.2 53.3 79.9#

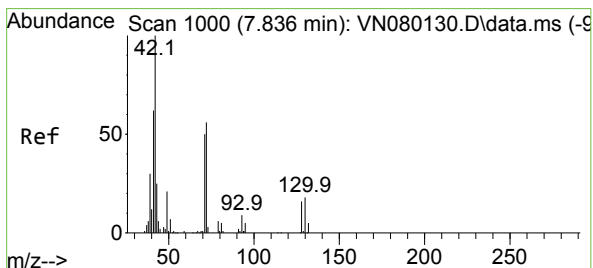
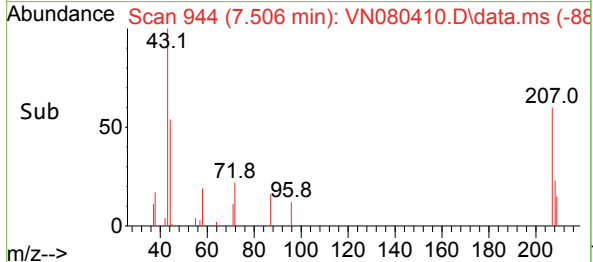
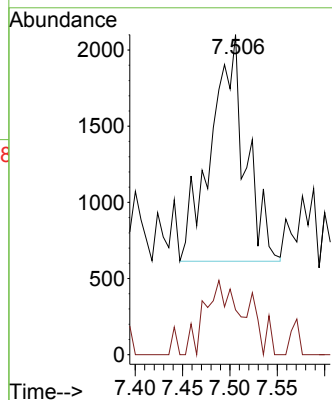
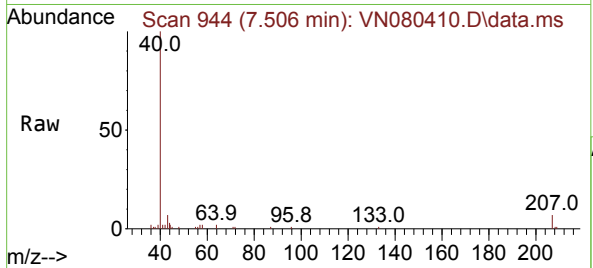




#25
2-Butanone
Concen: 1.747 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

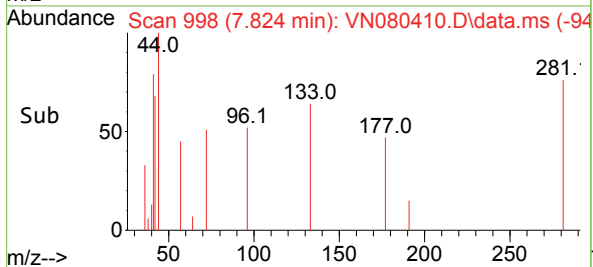
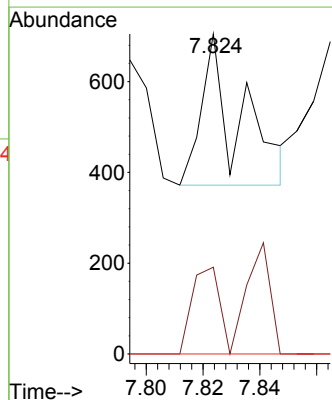
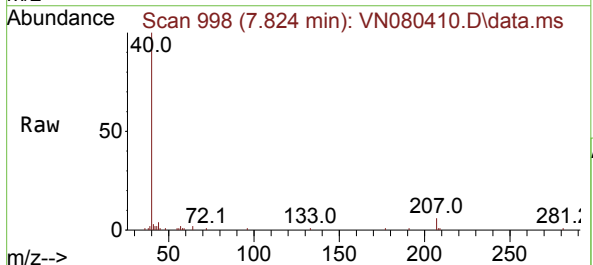
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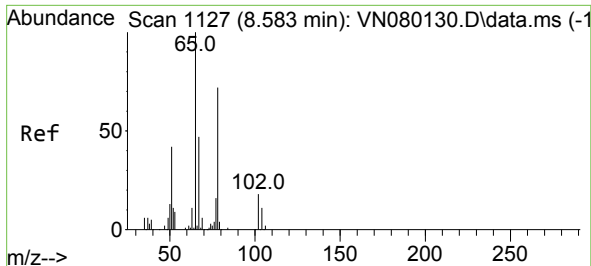
Tgt Ion: 43 Resp: 3736
Ion Ratio Lower Upper
43 100
72 19.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.267 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.012 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 42 Resp: 307
Ion Ratio Lower Upper
42 100
72 42.0 49.8 74.6#
71 0.0 47.4 71.2#





#33

1,2-Dichloroethane-d4

Concen: 49.382 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Instrument :

MSVOA_N

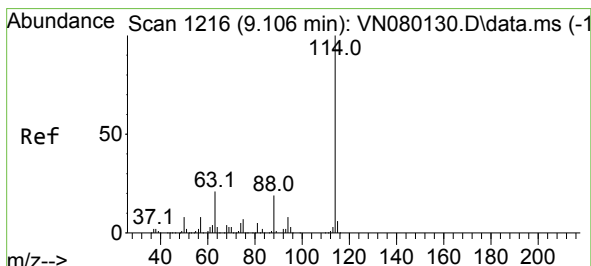
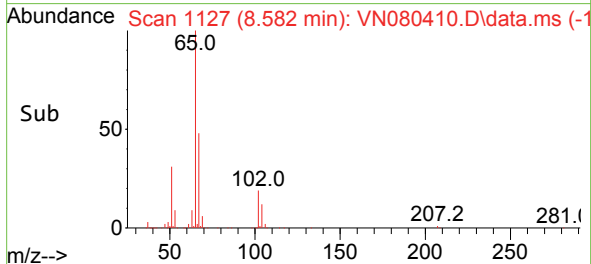
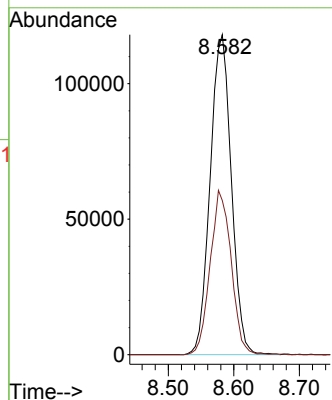
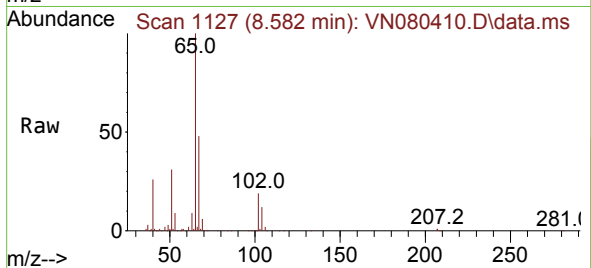
ClientSampleId :

Tgt Ion: 65 Resp: 264581

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

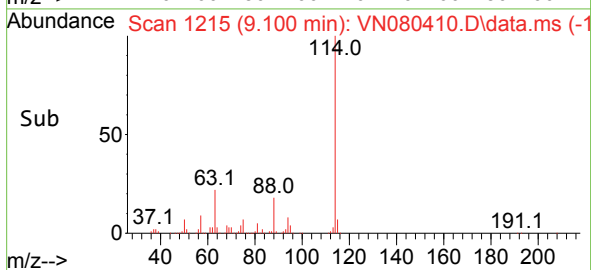
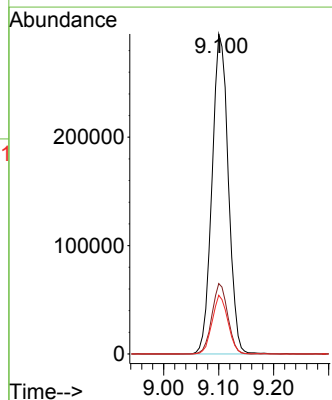
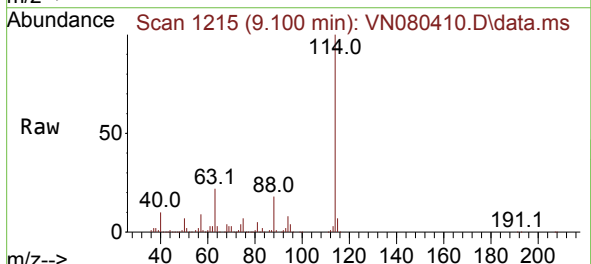
Tgt Ion: 114 Resp: 607966

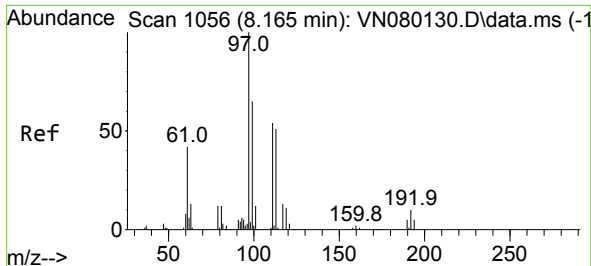
Ion Ratio Lower Upper

114 100

63 22.0 0.0 36.4

88 18.4 0.0 30.6

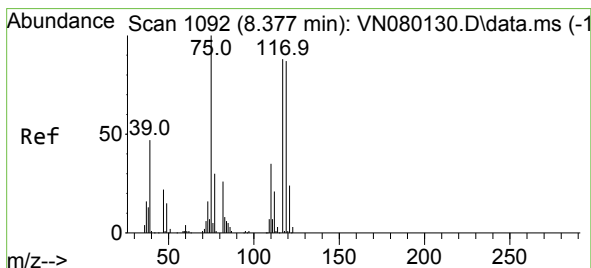
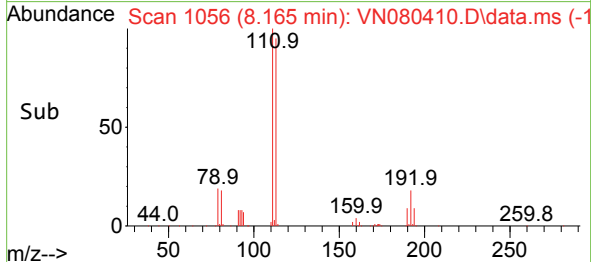
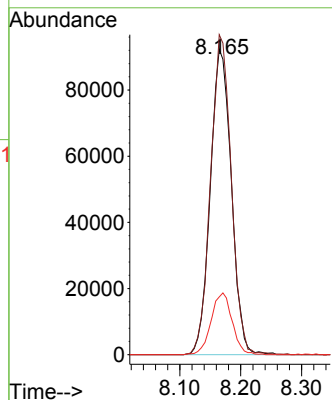
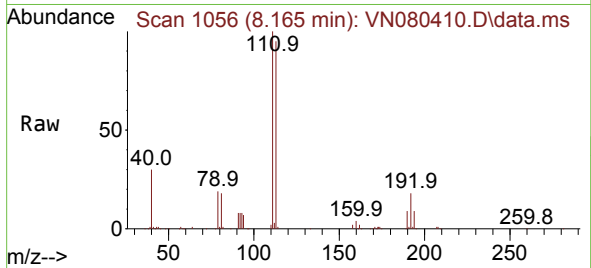




#35
Dibromofluoromethane
Concen: 49.491 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

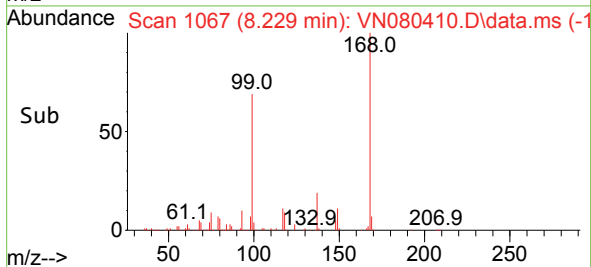
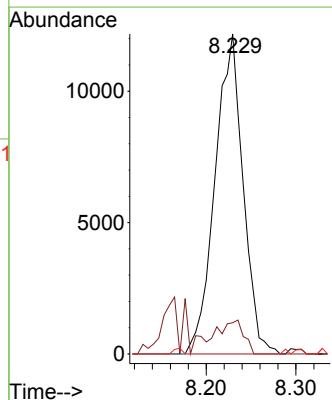
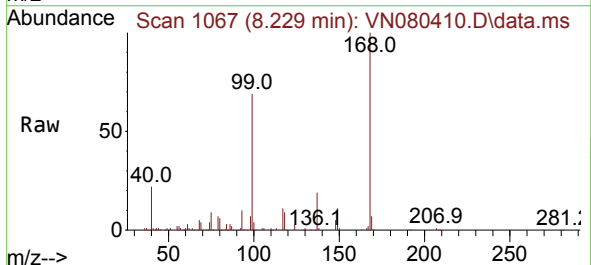
Instrument :
MSVOA_N
ClientSampleId :

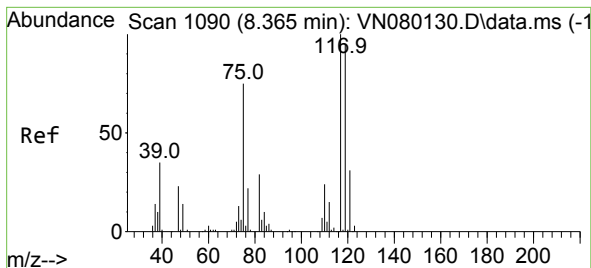
Tgt Ion:113 Resp: 222016
Ion Ratio Lower Upper
113 100
111 102.6 82.6 123.8
192 20.2 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 4.061 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 75 Resp: 26377
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 4.518 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

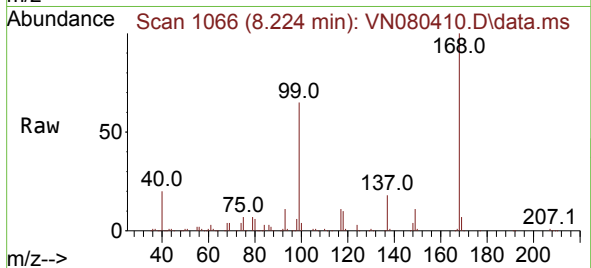
Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :



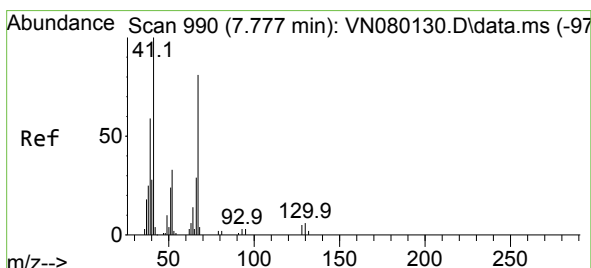
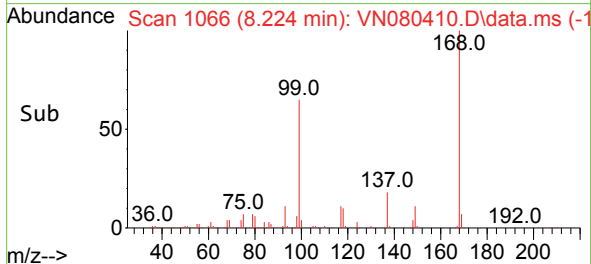
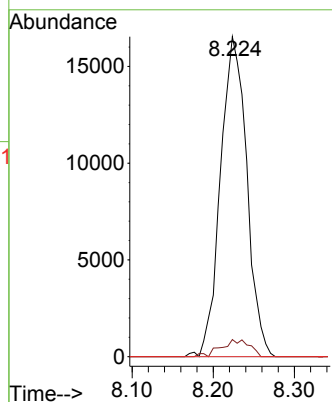
Tgt Ion:117 Resp: 37238

Ion Ratio Lower Upper

117 100

119 5.3 77.3 115.9#

121 0.0 23.3 34.9#



#41

Methacrylonitrile

Concen: 0.200 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.006 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Tgt Ion: 41 Resp: 495

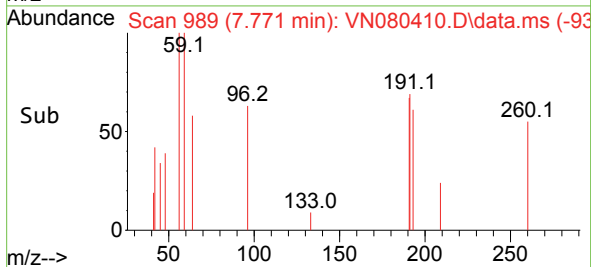
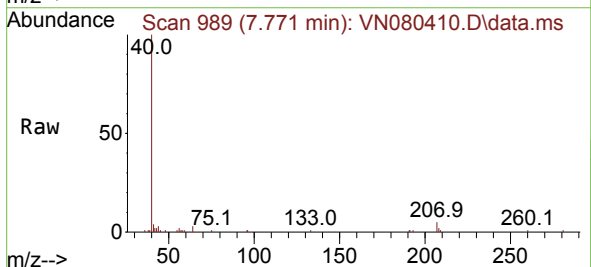
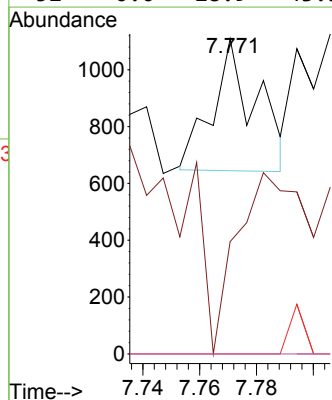
Ion Ratio Lower Upper

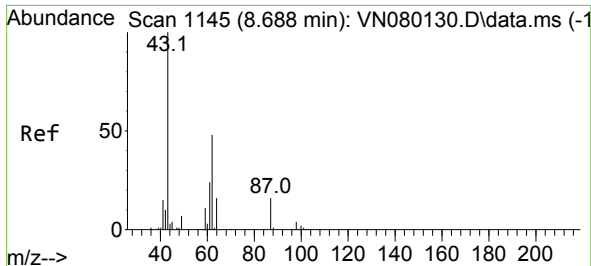
41 100

39 217.4 42.6 64.0#

67 0.0 77.5 116.3#

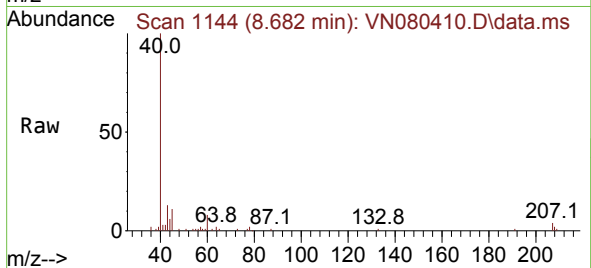
52 0.0 28.9 43.3#



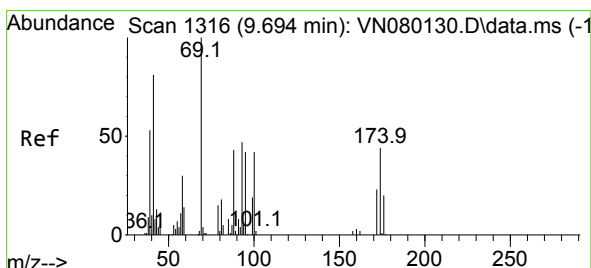
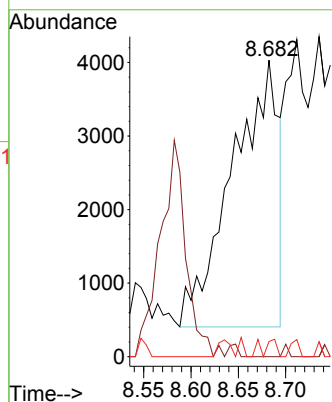
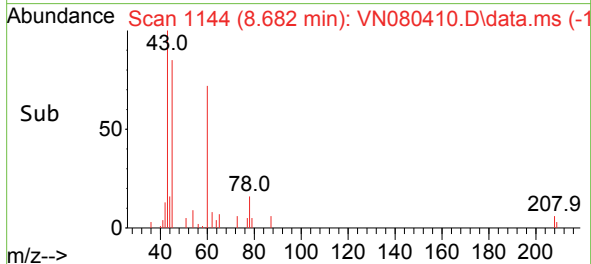


#43
Isopropyl Acetate
Concen: 1.402 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

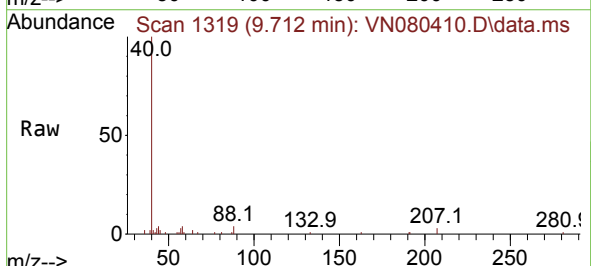
Instrument :
MSVOA_N
ClientSampleId :



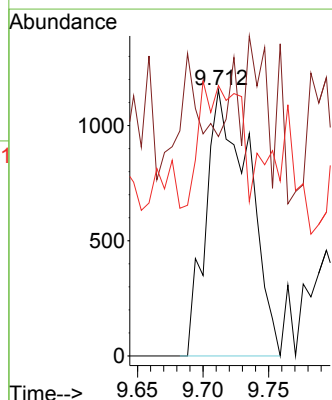
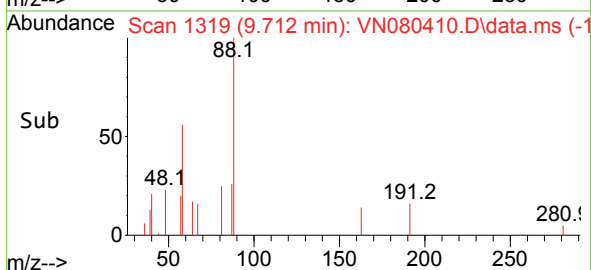
Tgt Ion: 43 Resp: 12291
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 1.9 14.6 21.8#

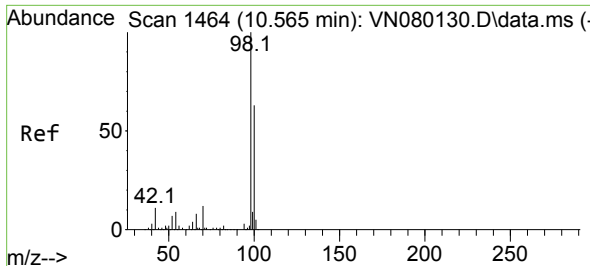


#49
1,4-Dioxane
Concen: 35.312 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.017 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46



Tgt Ion: 88 Resp: 2654
Ion Ratio Lower Upper
88 100
43 10.0 17.0 25.6#
58 0.0 47.0 70.4#

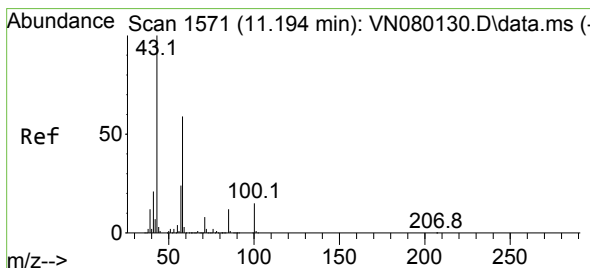
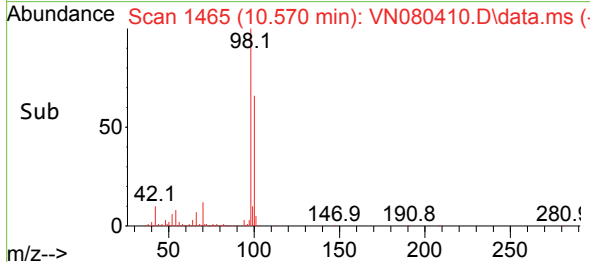
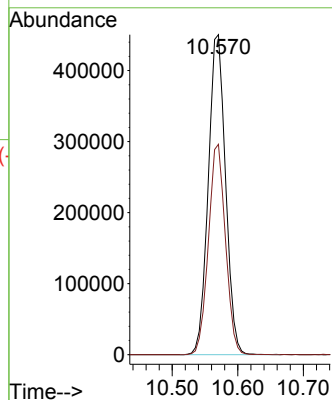
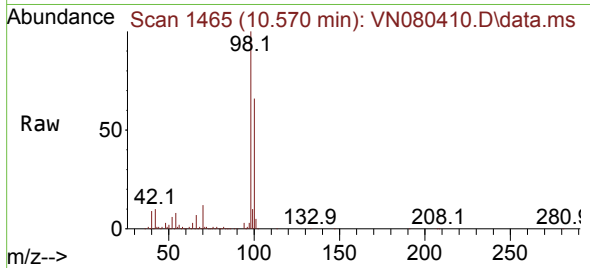




#50
Toluene-d8
Concen: 51.030 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

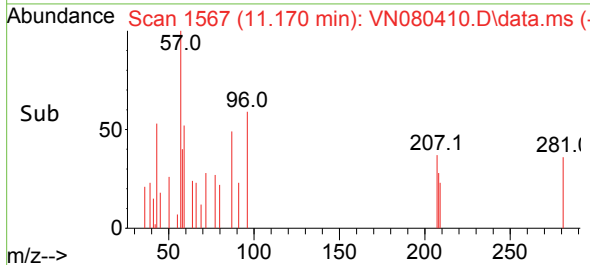
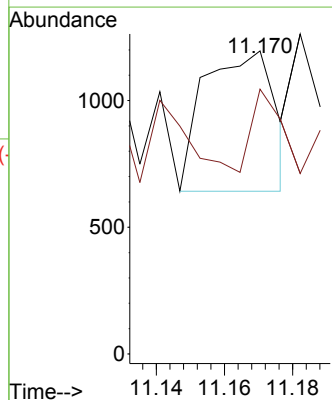
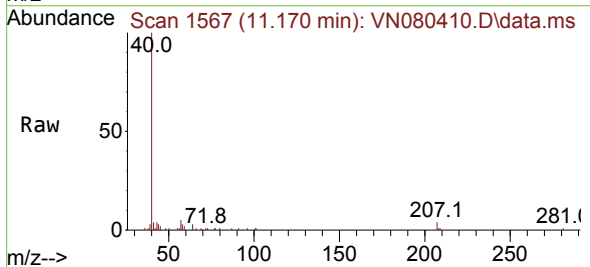
Instrument :
MSVOA_N
ClientSampleId :

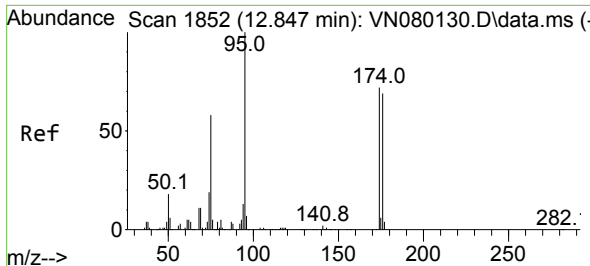
Tgt Ion: 98 Resp: 825217
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#59
2-Hexanone
Concen: 0.218 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
58 52.5 31.7 95.1

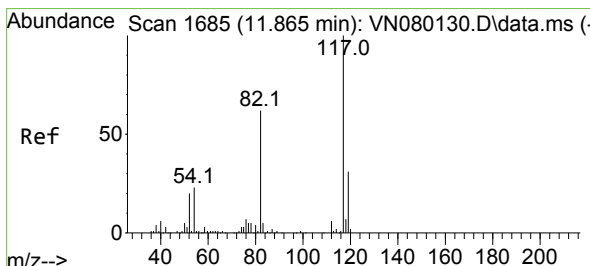
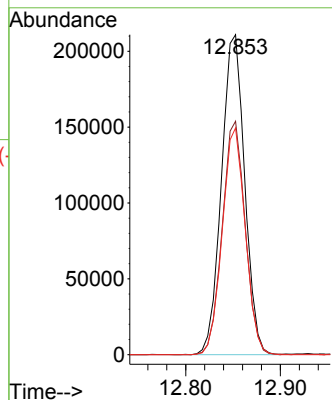
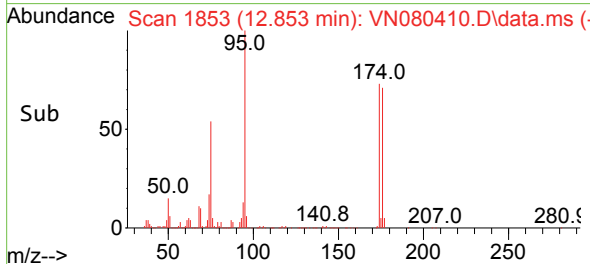
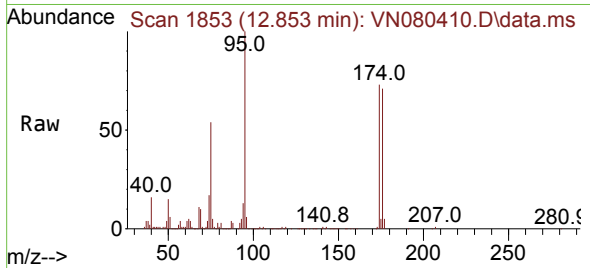




#62
4-Bromofluorobenzene
Concen: 58.861 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

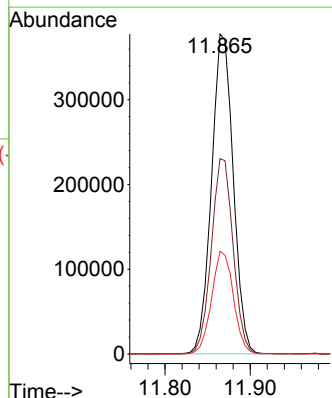
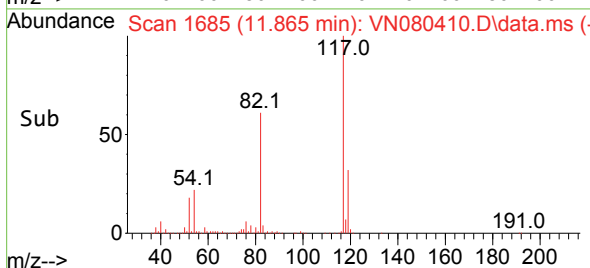
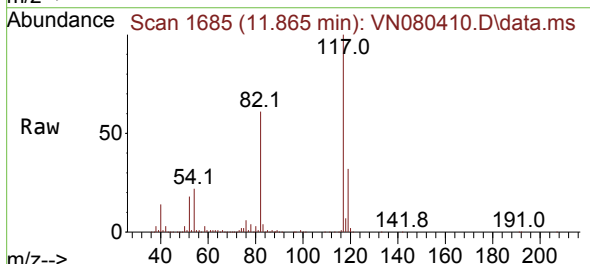
Instrument :
MSVOA_N
ClientSampleId :

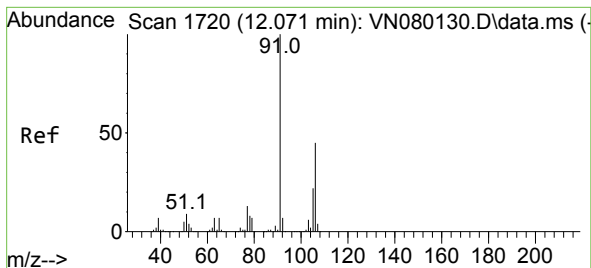
Tgt Ion: 95 Resp: 359529
Ion Ratio Lower Upper
95 100
174 72.2 0.0 143.8
176 70.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 117 Resp: 668851
Ion Ratio Lower Upper
117 100
82 61.0 44.0 66.0
119 32.1 25.6 38.4

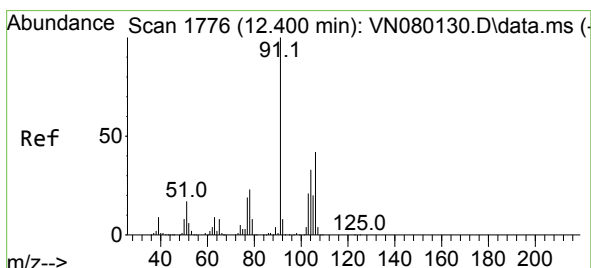
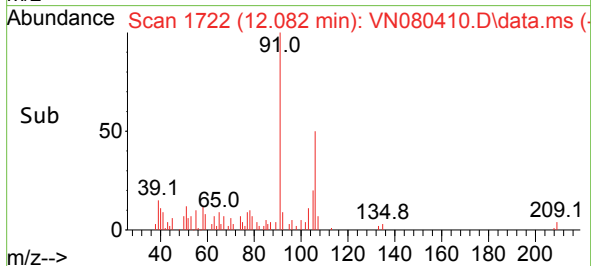
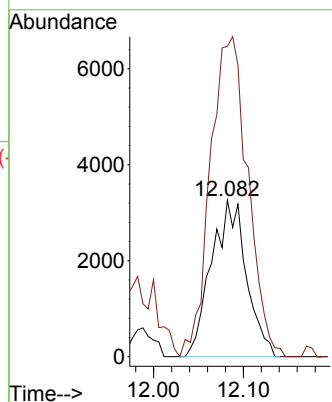
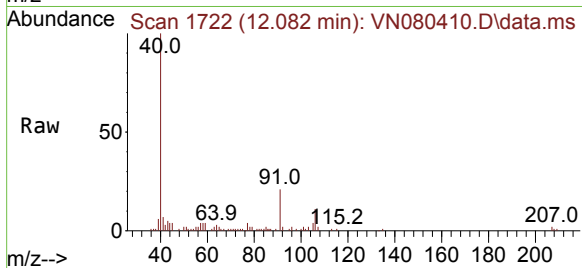




#68
m/p-Xylenes
Concen: 0.896 ug/l
RT: 12.082 min Scan# 1722
Delta R.T. 0.012 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

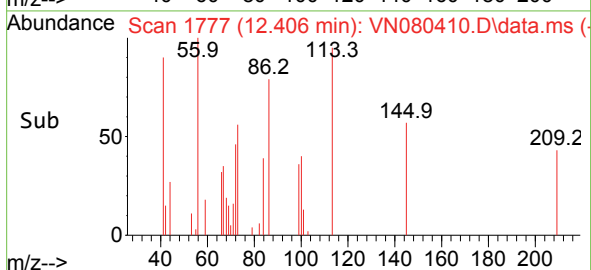
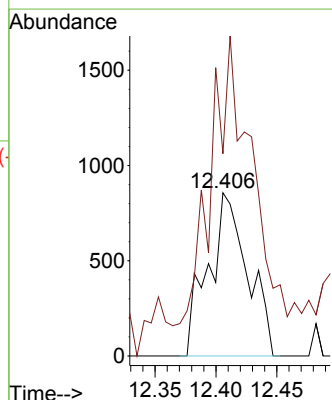
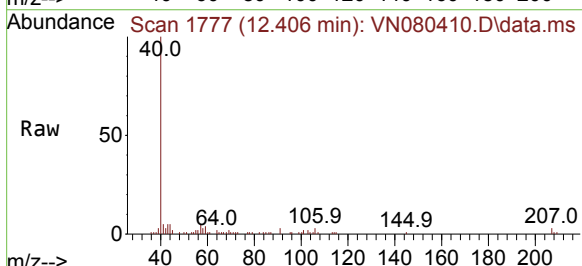
Instrument :
MSVOA_N
ClientSampleId :

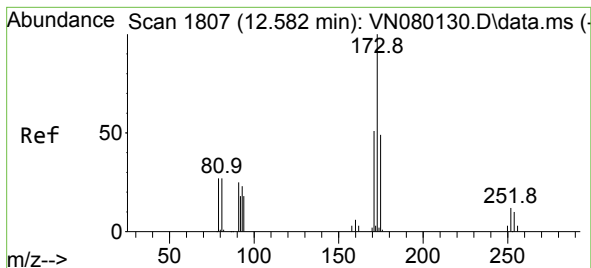
Tgt Ion:106 Resp: 8809
Ion Ratio Lower Upper
106 100
91 219.4 159.6 239.4



#69
o-Xylene
Concen: 0.208 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion:106 Resp: 1927
Ion Ratio Lower Upper
106 100
91 233.3 105.2 315.5





#71

Bromoform

Concen: 0.271 ug/l

RT: 12.841 min Scan# 11

Delta R.T. 0.259 min

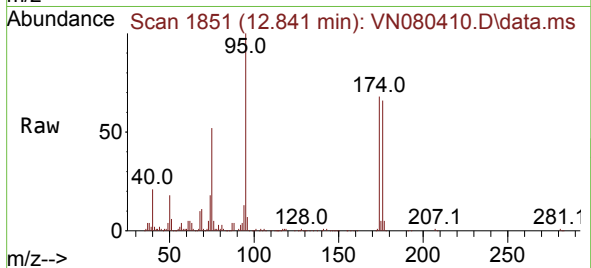
Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

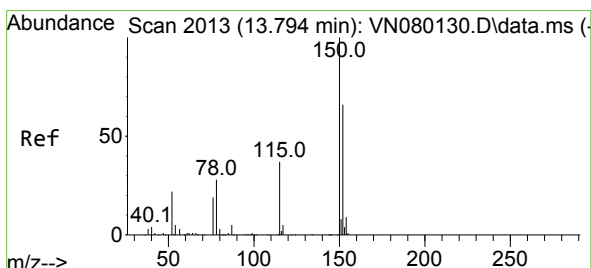
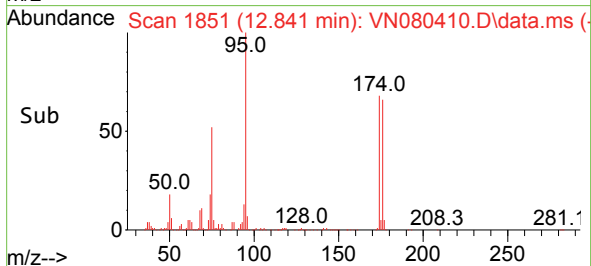
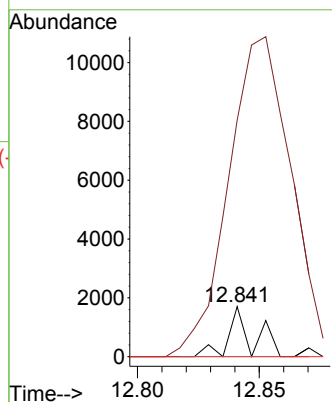
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	1180
Ion Ratio	Lower	Upper	
173	100		
175	1361.9	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

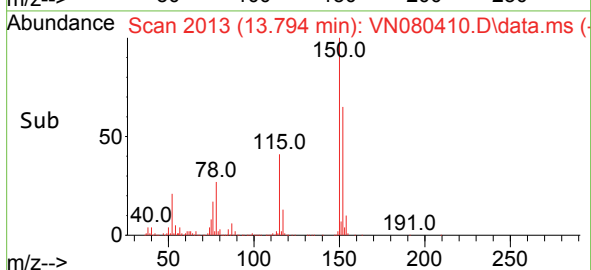
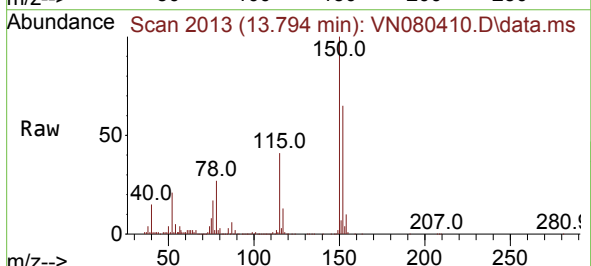
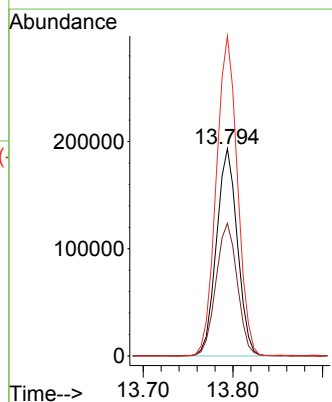
RT: 13.794 min Scan# 2013

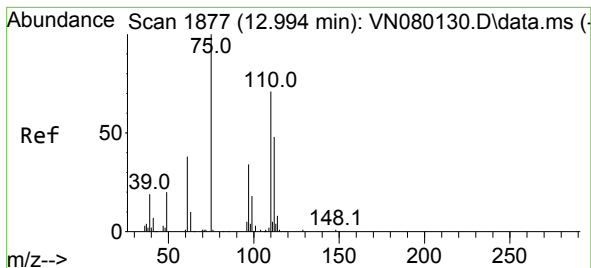
Delta R.T. -0.000 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Tgt Ion:	152	Resp:	313245
Ion Ratio	Lower	Upper	
152	100		
115	65.2	32.3	96.8
150	156.3	0.0	355.8





#76

1,2,3-Trichloropropane

Concen: 0.974 ug/l

RT: 12.959 min Scan# 1871

Delta R.T. -0.036 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Instrument :

MSVOA_N

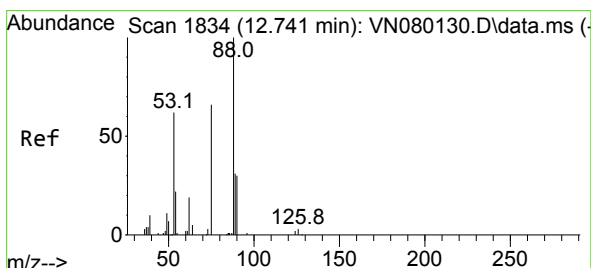
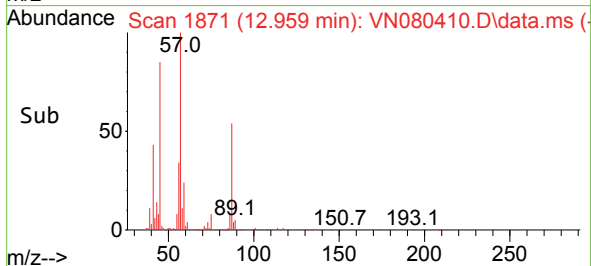
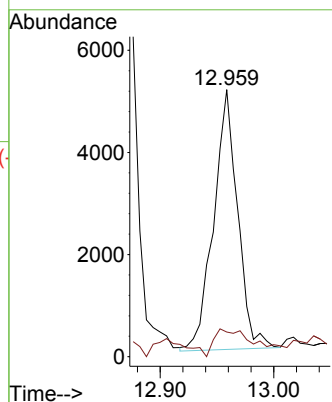
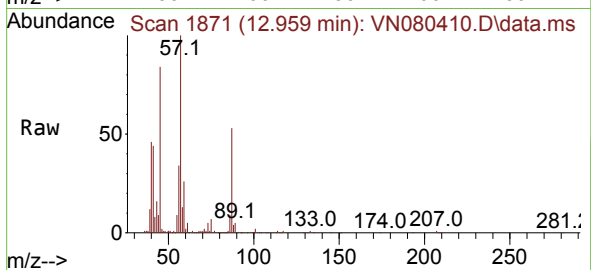
ClientSampleId :

Tgt Ion: 75 Resp: 7476

Ion Ratio Lower Upper

75 100

77 18.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.858 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

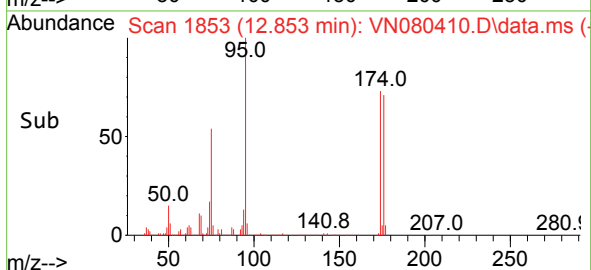
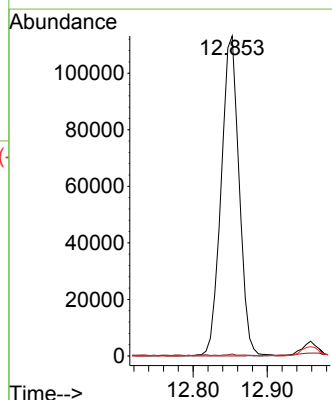
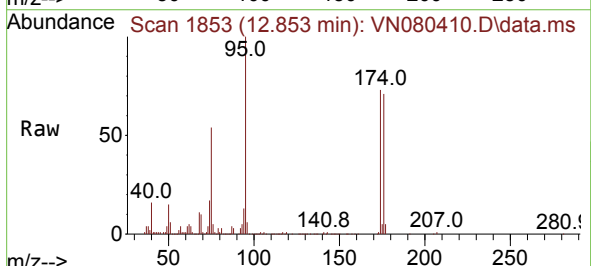
Tgt Ion: 75 Resp: 190498

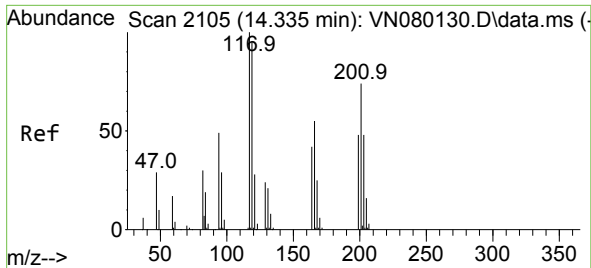
Ion Ratio Lower Upper

75 100

53 0.5 67.4 101.2#

89 0.0 38.8 58.2#

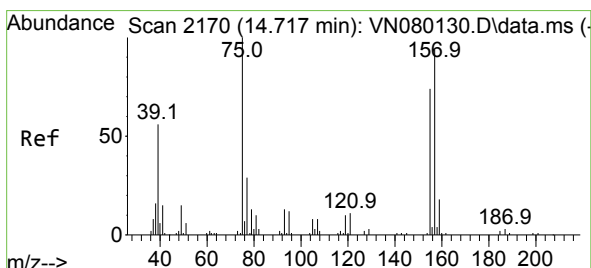
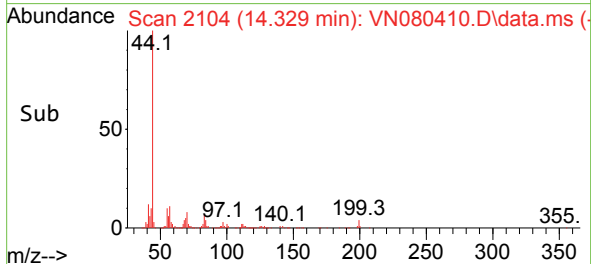
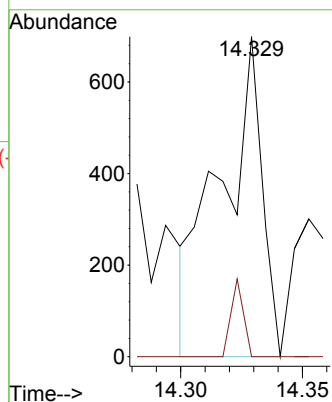
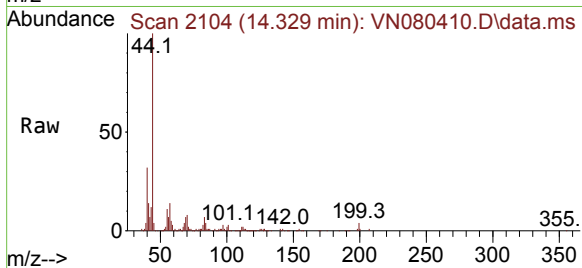




#90
Hexachloroethane
Concen: 0.223 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

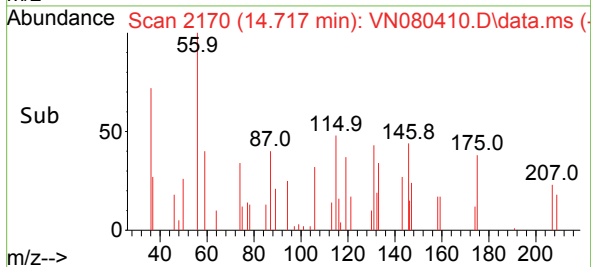
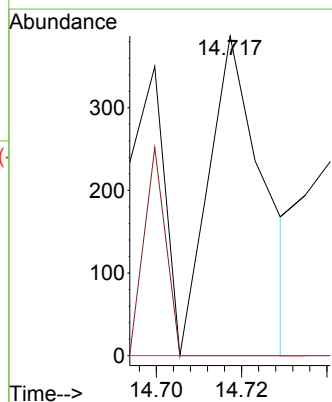
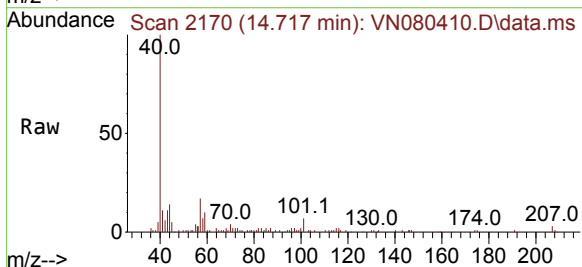
Instrument :
MSVOA_N
ClientSampleId :

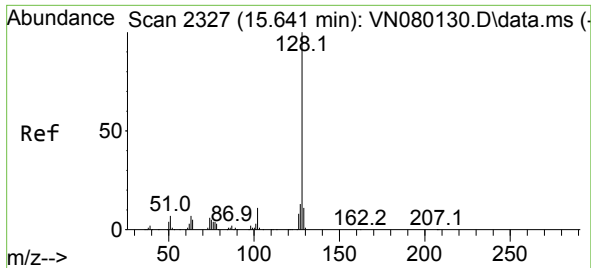
Tgt Ion:117 Resp: 833
Ion Ratio Lower Upper
117 100
201 7.2 29.3 88.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.204 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN080410.D
Acq: 08 Dec 2023 16:46

Tgt Ion: 75 Resp: 345
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#





#95

Naphthalene

Concen: 0.217 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

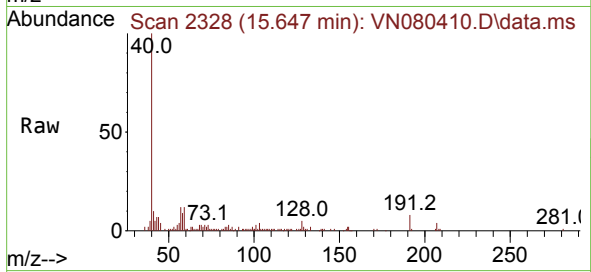
Lab File: VN080410.D

Acq: 08 Dec 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 3875

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 54.0 8.7 13.1#

