

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060823\
 Data File : VN078122.D
 Acq On : 08 Jun 2023 12:13
 Operator : JC\MD
 Sample : 03050-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-22-0A

Quant Time: Jun 09 01:24:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

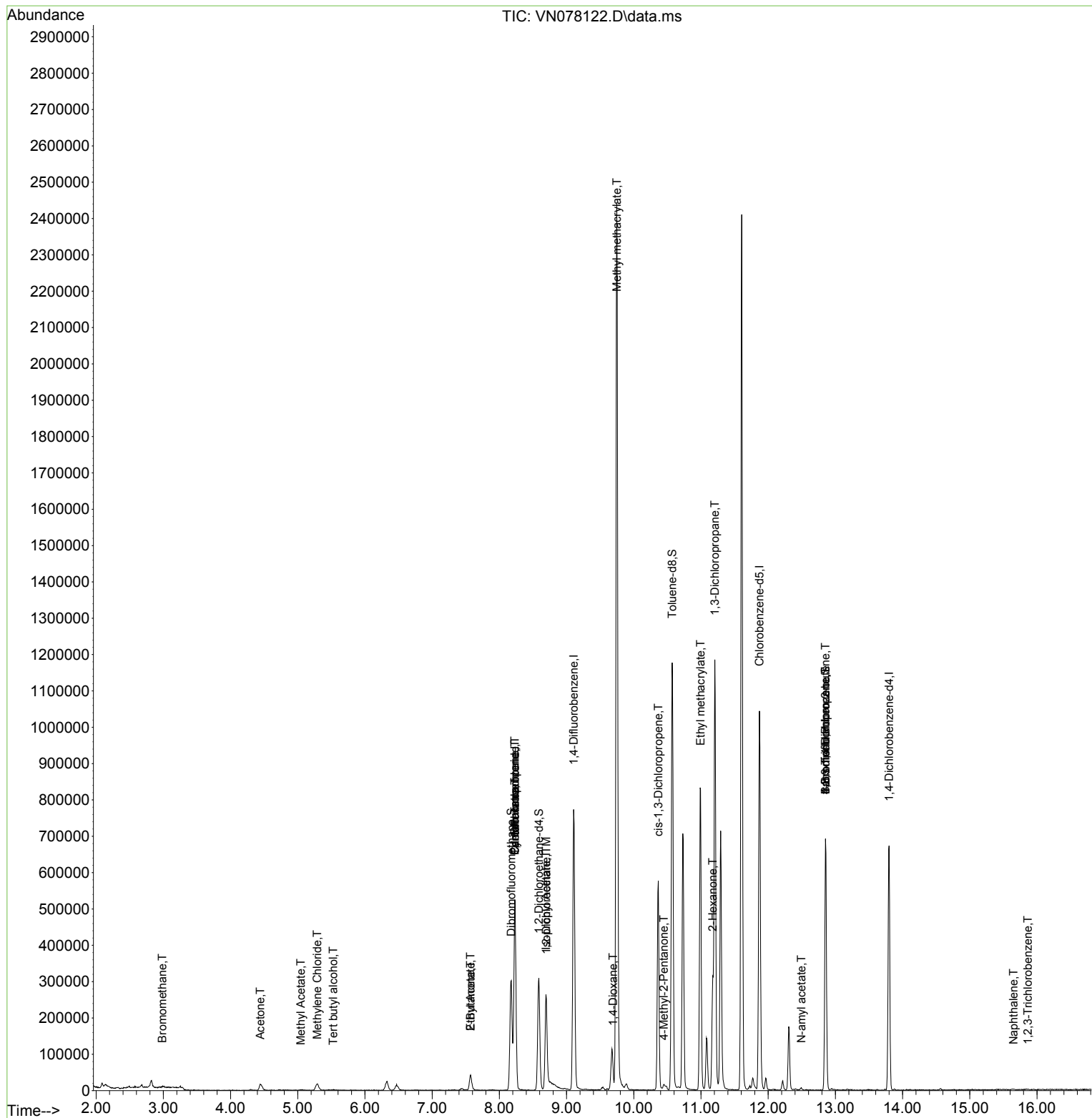
Internal Standards						
1) Pentafluorobenzene	8.230	168	369379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	683613	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	623028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	186203	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	256313	52.044	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.080%			
35) Dibromofluoromethane	8.177	113	223727	51.760	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.520%			
50) Toluene-d8	10.571	98	863302	51.809	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.620%			
62) 4-Bromofluorobenzene	12.853	95	245763	47.443	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.880%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	686	Below Cal	#	81
5) Bromomethane	2.983	94	1971	0.477	ug/l #	80
11) Tert butyl alcohol	5.530	59	329	0.484	ug/l #	72
16) Acetone	4.442	43	32741	23.096	ug/l	97
18) Methyl Acetate	5.047	43	3542	0.543	ug/l #	56
20) Methylene Chloride	5.289	84	15129	3.230	ug/l #	91
25) 2-Butanone	7.571	43	59016	27.072	ug/l #	37
31) Cyclohexane	8.230	56	8730	1.382	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	30851	4.976	ug/l #	49
37) Ethyl Acetate	7.571	43	59016	12.185	ug/l	97
38) Carbon Tetrachloride	8.230	117	40387	6.169	ug/l #	15
42) 1,2-Dichloroethane	8.700	62	1871	0.295	ug/l #	73
43) Isopropyl Acetate	8.694	43	330809	35.714	ug/l #	78
48) Methyl methacrylate	9.747	41	221762	57.049	ug/l #	30
49) 1,4-Dioxane	9.694	88	75	0.918	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	9497	1.947	ug/l	89
54) cis-1,3-Dichloropropene	10.365	75	107313	14.794	ug/l #	67
56) Ethyl methacrylate	10.994	69	3493	0.543	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12738	1.707	ug/l #	42
59) 2-Hexanone	11.176	43	235141	69.235	ug/l #	19
71) Bromoform	12.853	173	1603	0.506	ug/l #	1
74) N-amyl acetate	12.494	43	2019	0.348	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.859	83	95	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	134374	30.526	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	134374	93.786	ug/l #	15
94) Hexachlorobutadiene	15.506	225	212	Below Cal	#	30
95) Naphthalene	15.653	128	1978	0.244	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.864	180	639	0.237	ug/l #	13

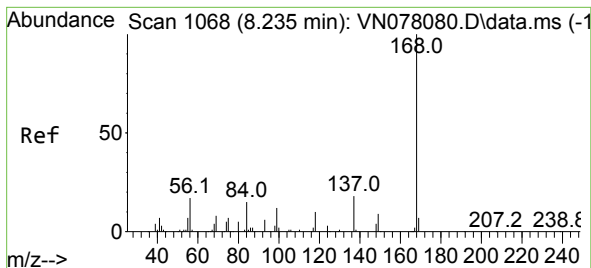
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078122.D

Acq: 08 Jun 2023 12:13

Instrument :

MSVOA_N

ClientSampleId :

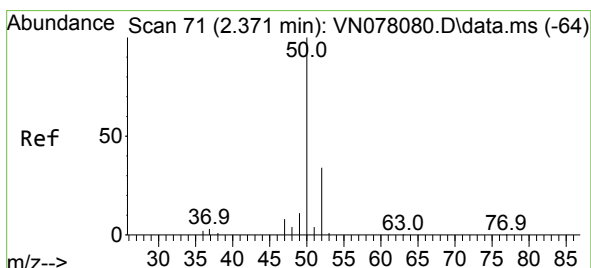
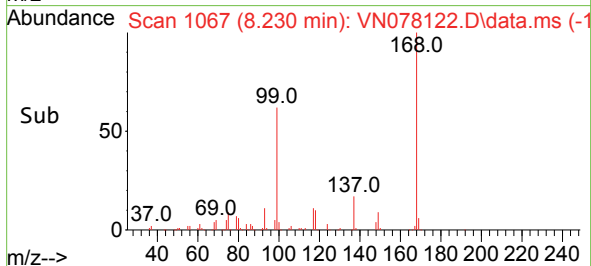
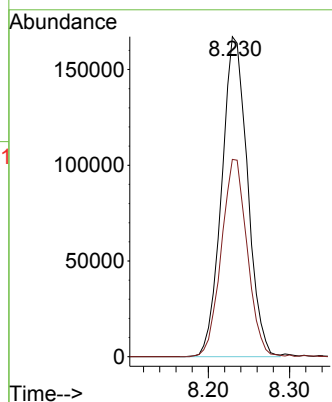
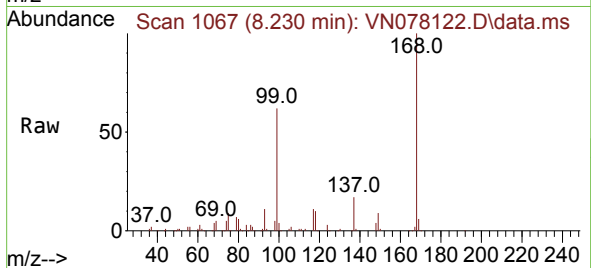
TP-22-0A

Tgt Ion:168 Resp: 369379

Ion Ratio Lower Upper

168 100

99 61.6 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078122.D

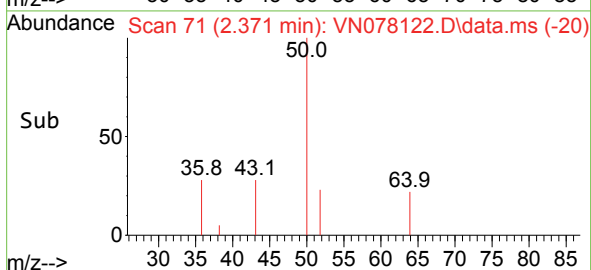
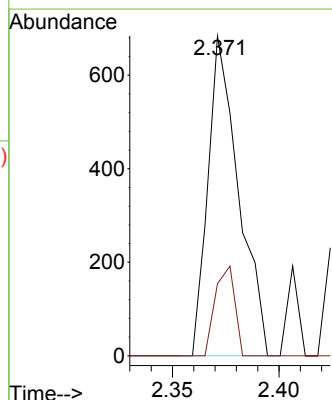
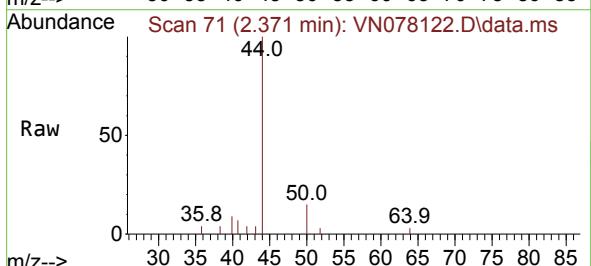
Acq: 08 Jun 2023 12:13

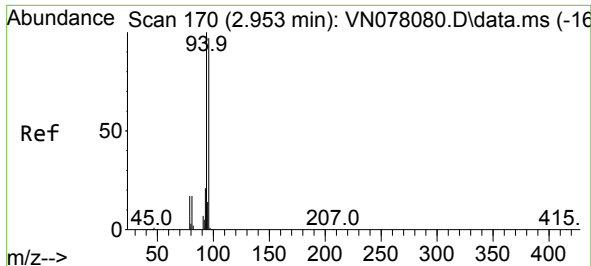
Tgt Ion: 50 Resp: 686

Ion Ratio Lower Upper

50 100

52 22.5 26.5 39.7#

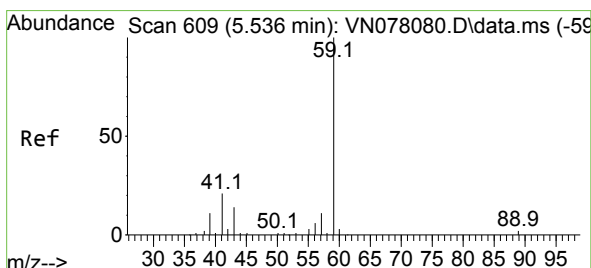
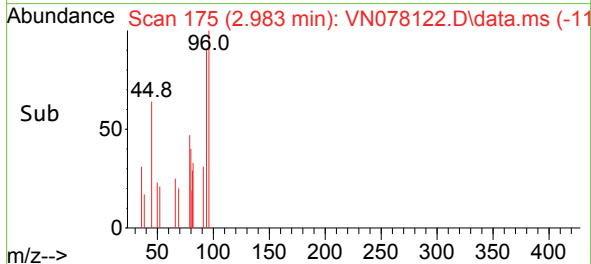
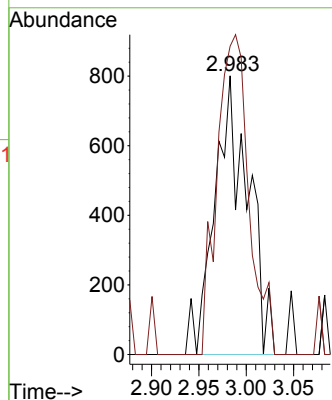
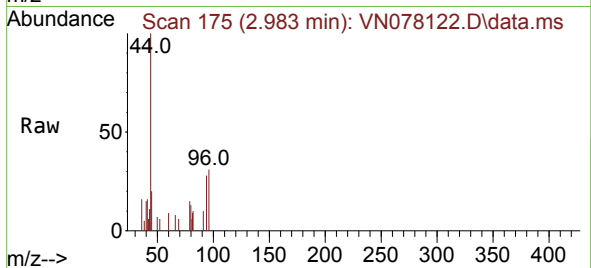




#5
Bromomethane
Concen: 0.477 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

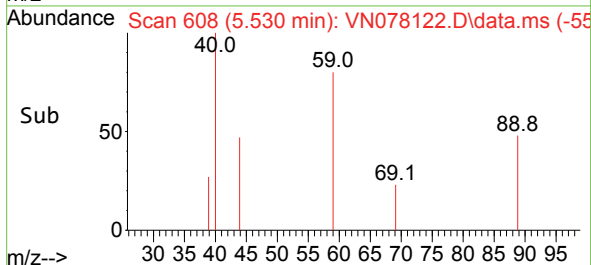
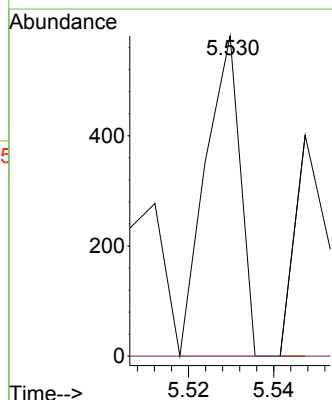
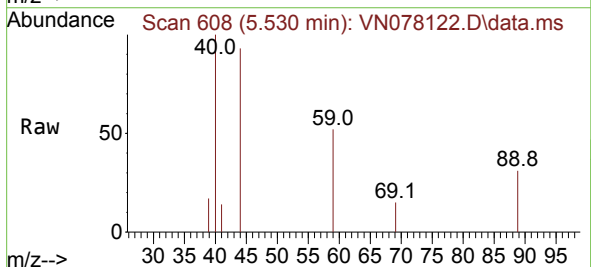
Instrument :
MSVOA_N
ClientSampleId :
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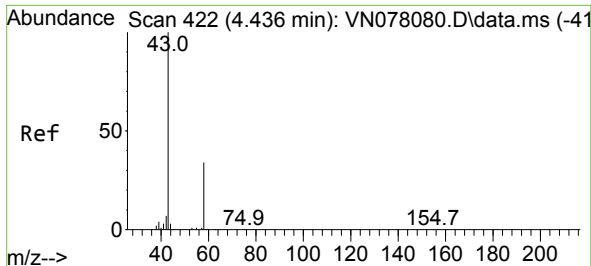
Tgt Ion: 94 Resp: 1971
Ion Ratio Lower Upper
94 100
96 110.6 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.484 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 59 Resp: 329
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

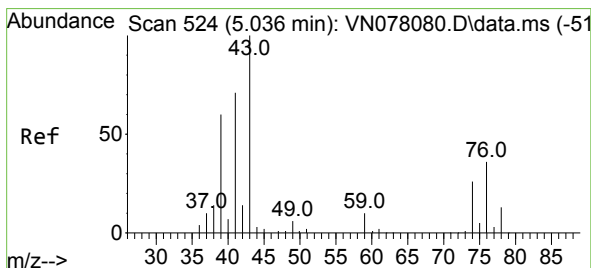
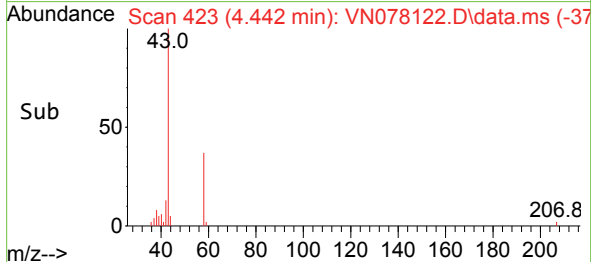
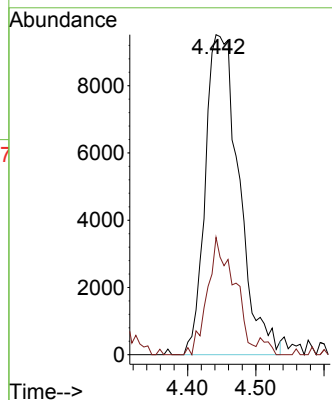
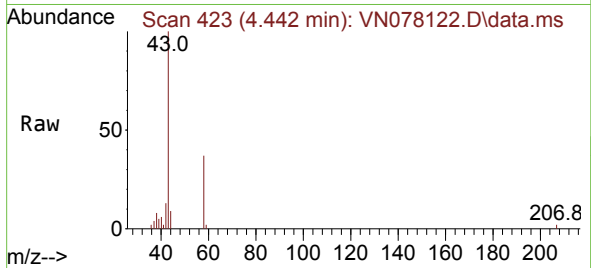




#16
Acetone
Concen: 23.096 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

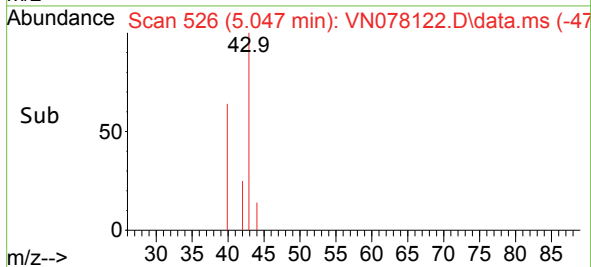
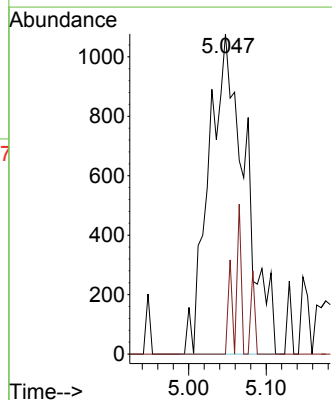
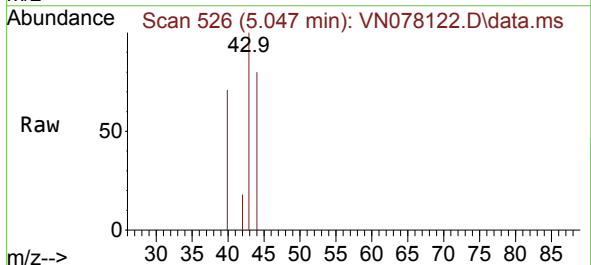
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

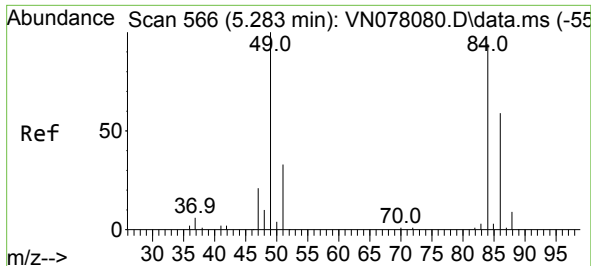
Tgt Ion: 43 Resp: 32741
Ion Ratio Lower Upper
43 100
58 36.6 28.0 42.0



#18
Methyl Acetate
Concen: 0.543 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.012 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 43 Resp: 3542
Ion Ratio Lower Upper
43 100
74 8.2 26.2 39.4#

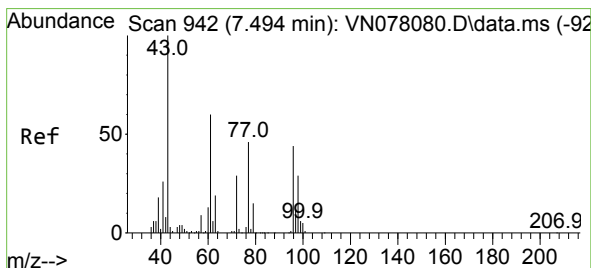
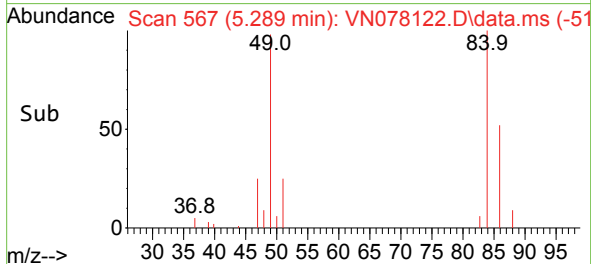
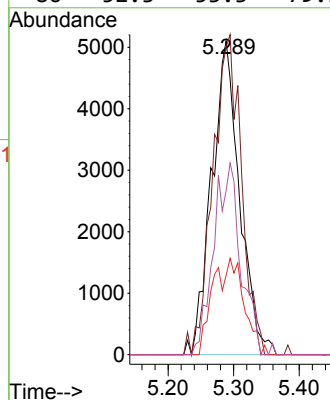
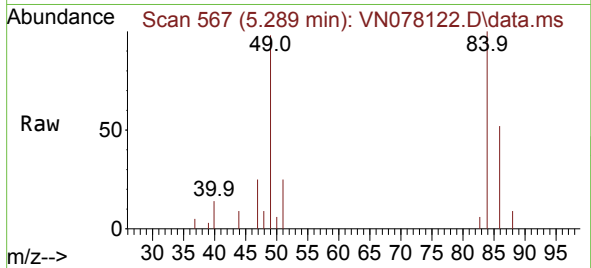




#20
Methylene Chloride
Concen: 3.230 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

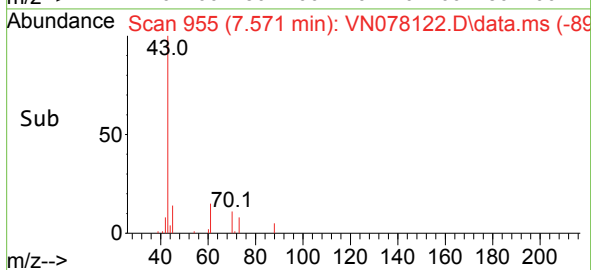
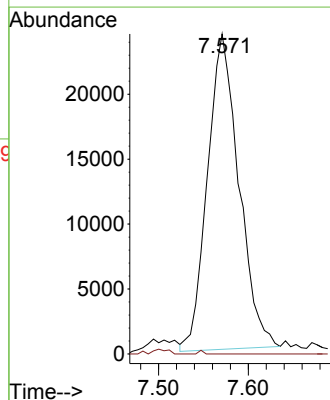
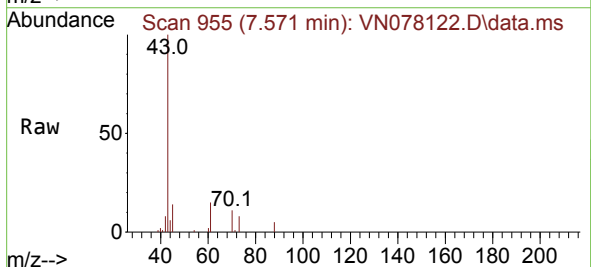
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

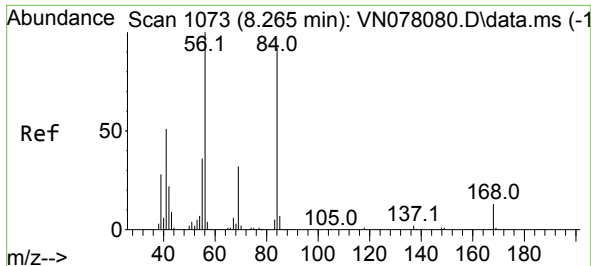
Tgt Ion: 84	Resp: 15129
Ion Ratio	Lower Upper
84 100	
49 98.2	79.7 119.5
51 25.3	25.2 37.8
86 52.3	53.3 79.9#



#25
2-Butanone
Concen: 27.072 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.076 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 43	Resp: 59016
Ion Ratio	Lower Upper
43 100	
72 0.0	30.2 45.2#

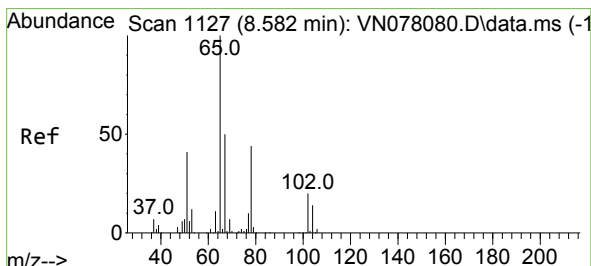
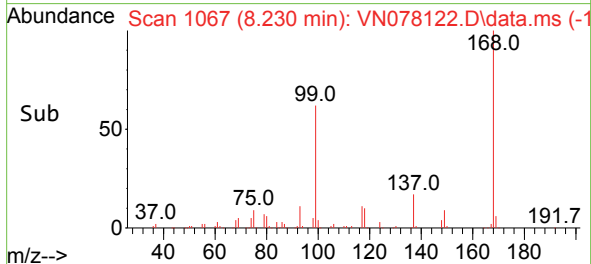
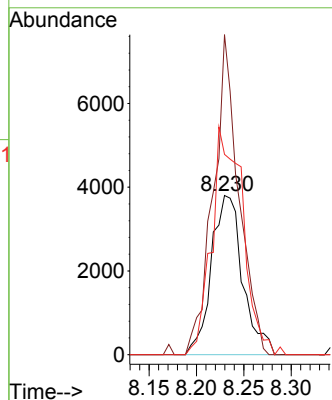
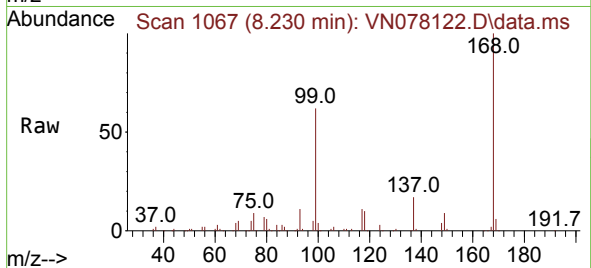




#31
Cyclohexane
Concen: 1.382 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

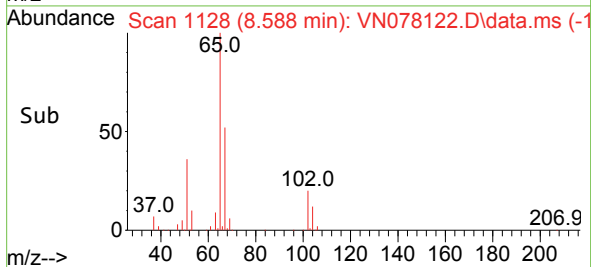
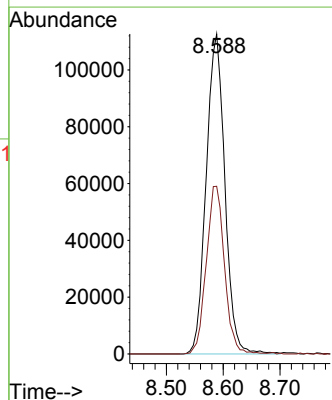
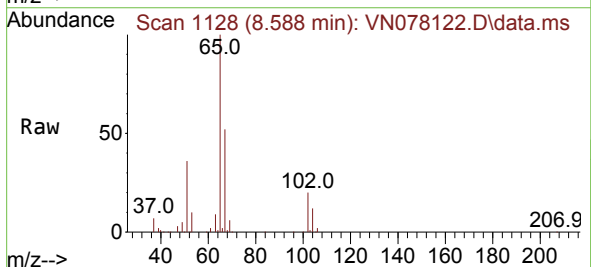
Instrument :
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ClientSampleId :
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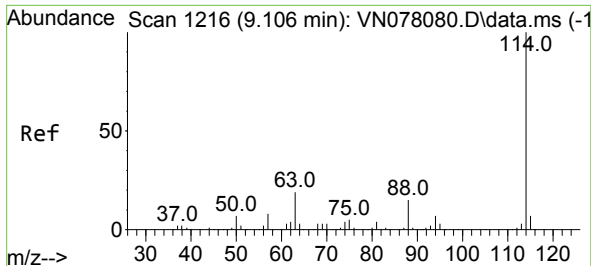
Tgt Ion: 56 Resp: 8730
Ion Ratio Lower Upper
56 100
69 201.0 26.8 40.2#
84 137.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 52.044 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 65 Resp: 256313
Ion Ratio Lower Upper
65 100
67 51.2 0.0 106.6

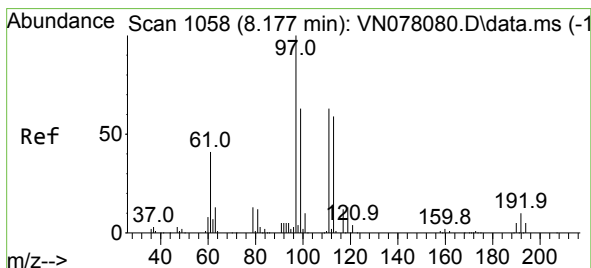
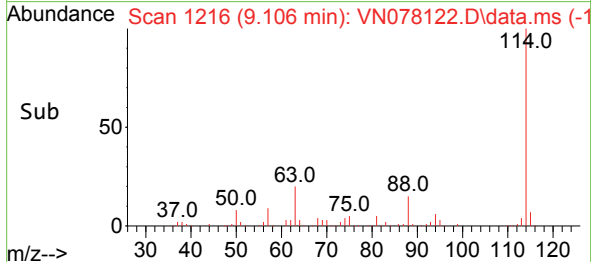
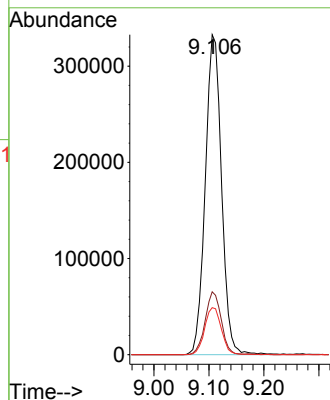
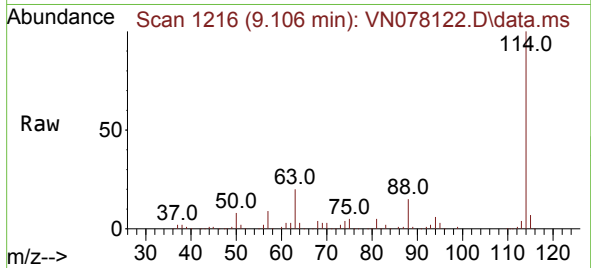




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

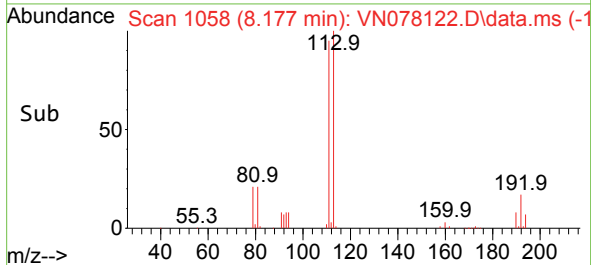
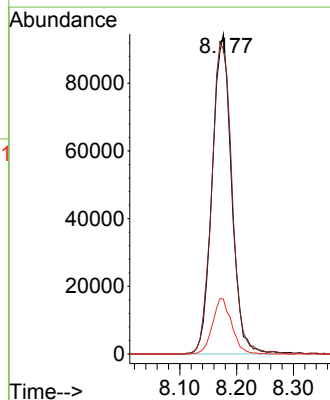
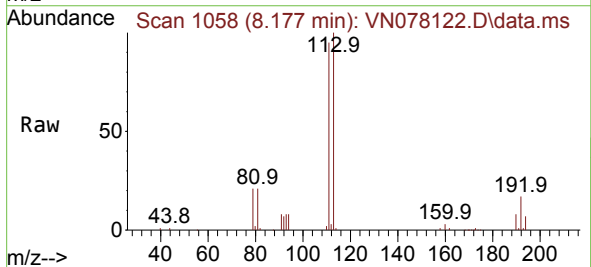
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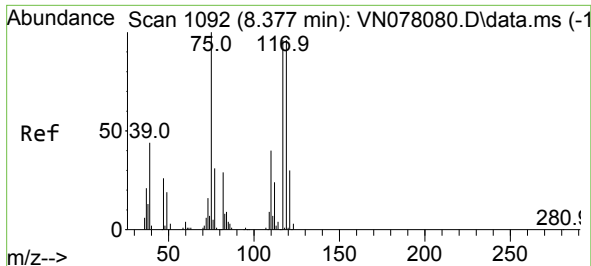
Tgt Ion:114 Resp: 683613
Ion Ratio Lower Upper
114 100
63 19.7 0.0 36.4
88 14.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.760 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion:113 Resp: 223727
Ion Ratio Lower Upper
113 100
111 101.7 82.6 123.8
192 17.1 12.7 19.1

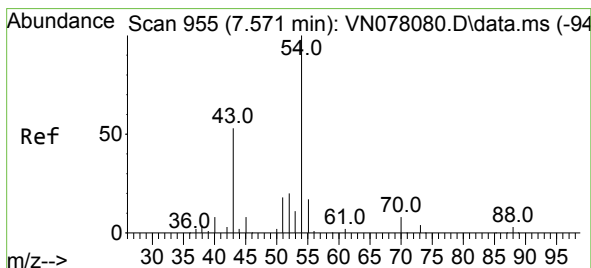
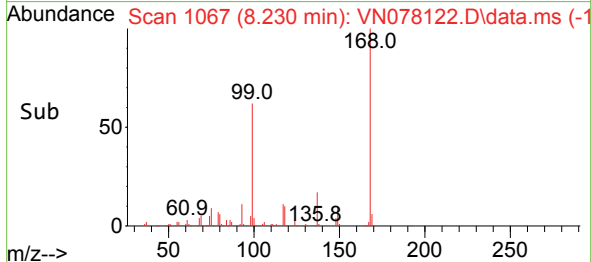
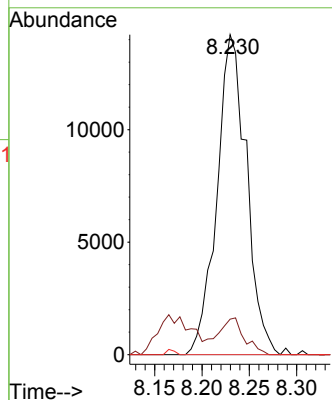
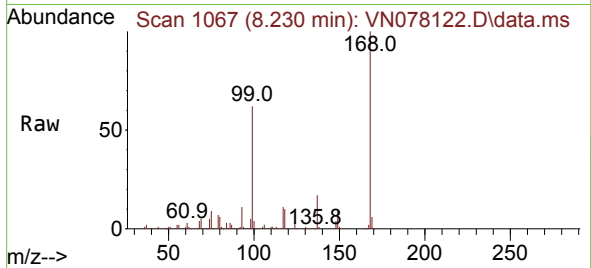




#36
1,1-Dichloropropene
Concen: 4.976 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

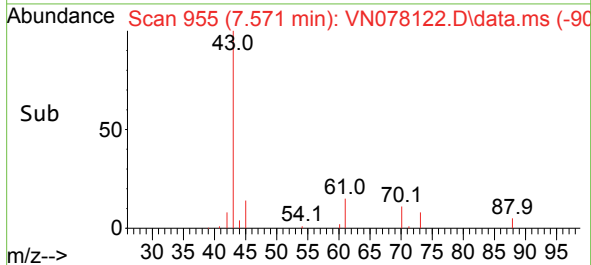
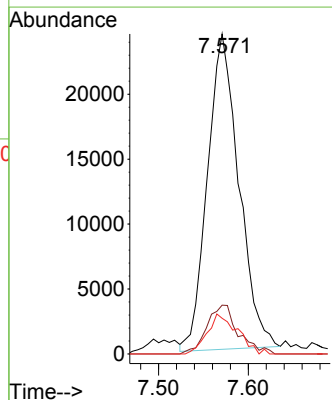
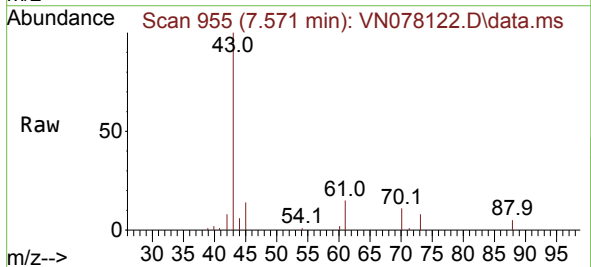
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TP-22-0A

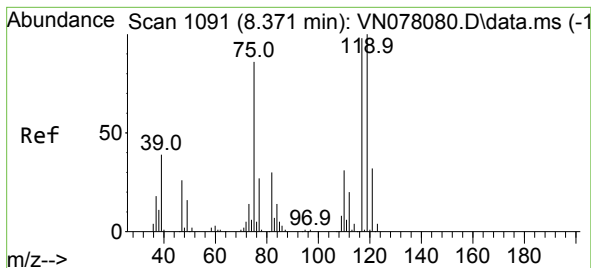
Tgt Ion: 75 Resp: 30851
Ion Ratio Lower Upper
75 100
110 9.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 12.185 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 43 Resp: 59016
Ion Ratio Lower Upper
43 100
61 15.5 13.2 19.8
70 12.2 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.169 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078122.D

Acq: 08 Jun 2023 12:13

Instrument :

MSVOA_N

ClientSampleId :

TP-22-0A

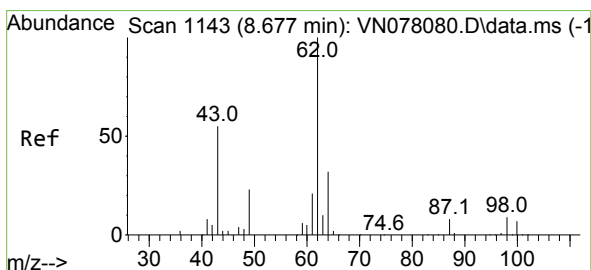
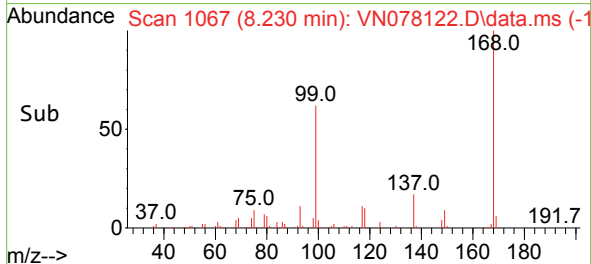
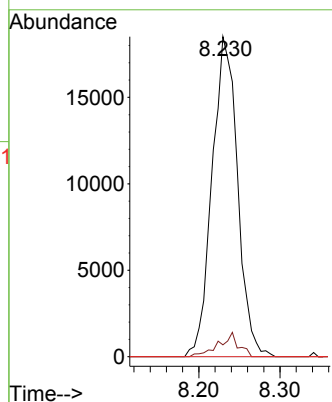
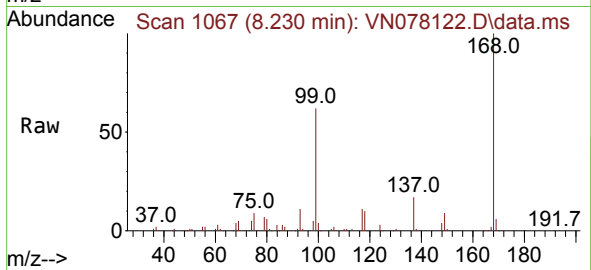
Tgt Ion:117 Resp: 40387

Ion Ratio Lower Upper

117 100

119 3.7 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.295 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.024 min

Lab File: VN078122.D

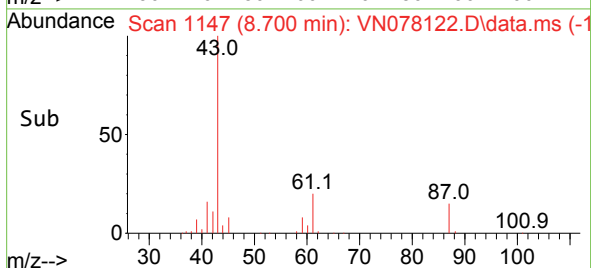
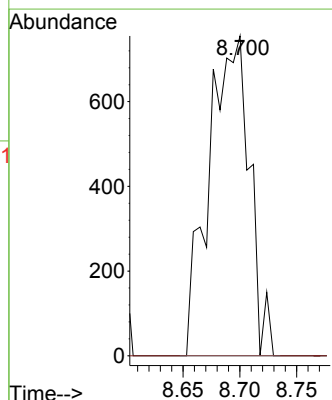
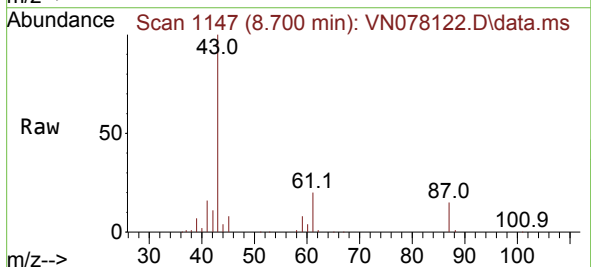
Acq: 08 Jun 2023 12:13

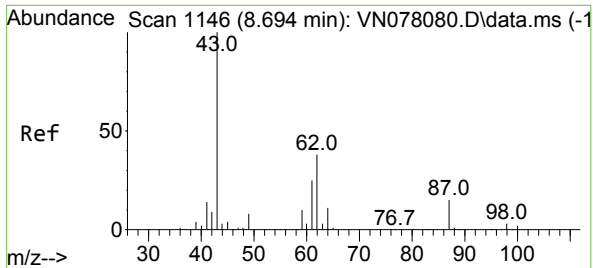
Tgt Ion: 62 Resp: 1871

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

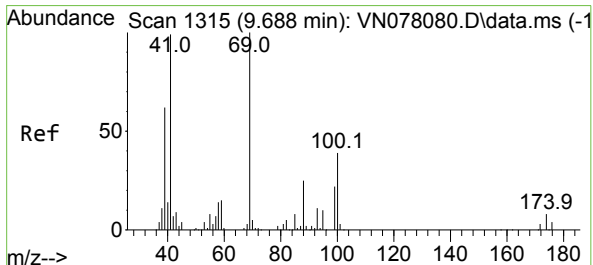
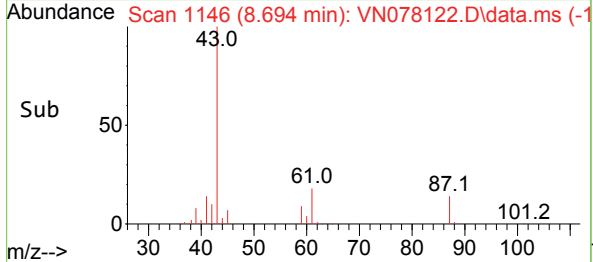
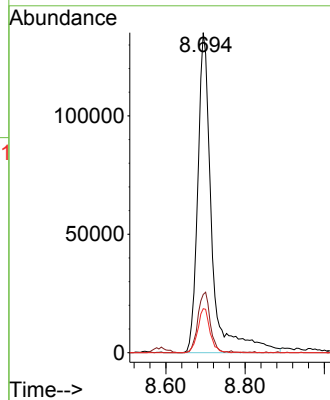
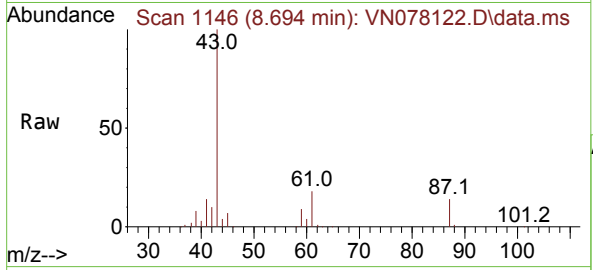




#43
Isopropyl Acetate
Concen: 35.714 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

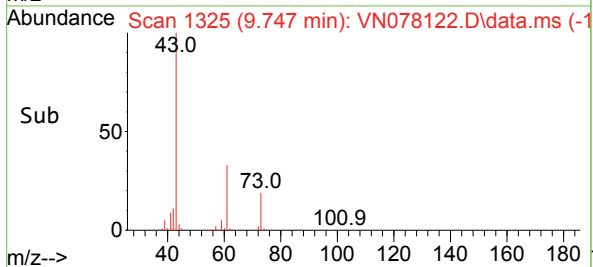
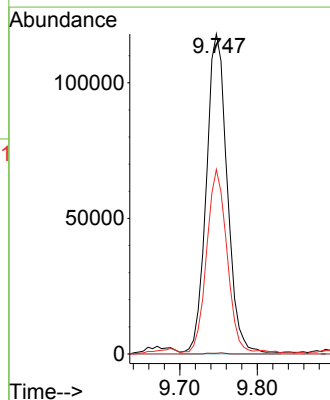
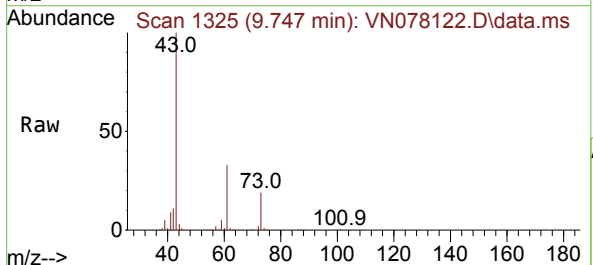
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

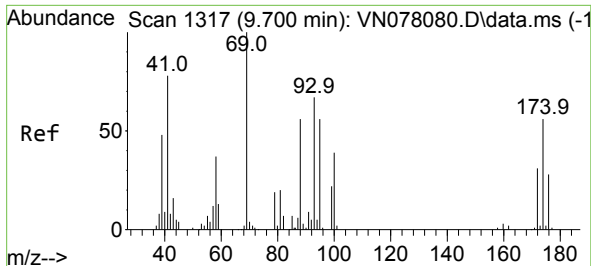
Tgt Ion: 43 Resp: 330809
Ion Ratio Lower Upper
43 100
61 16.6 24.7 37.1#
87 11.9 14.6 21.8#



#48
Methyl methacrylate
Concen: 57.049 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 41 Resp: 221762
Ion Ratio Lower Upper
41 100
69 0.2 90.4 135.6#
39 57.6 54.6 81.8





#49

1,4-Dioxane

Concen: 0.918 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078122.D

Acq: 08 Jun 2023 12:13

Instrument :

MSVOA_N

ClientSampleId :

TP-22-0A

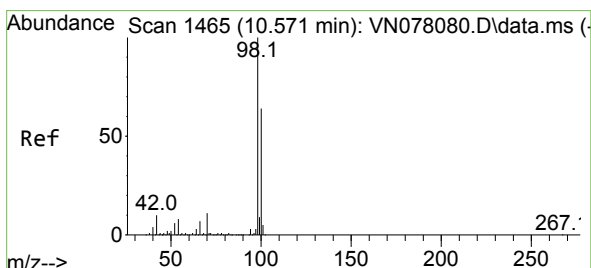
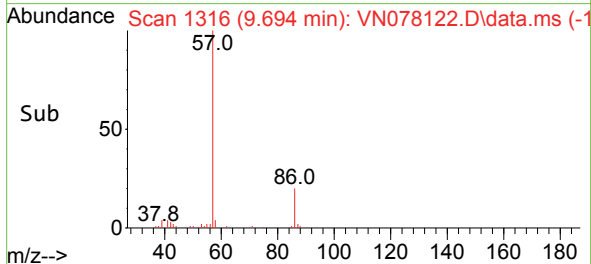
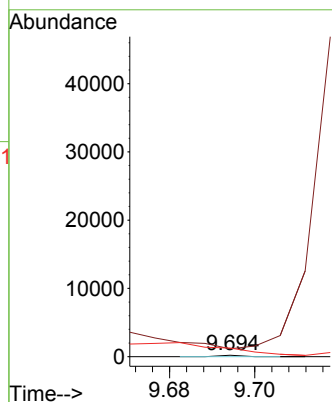
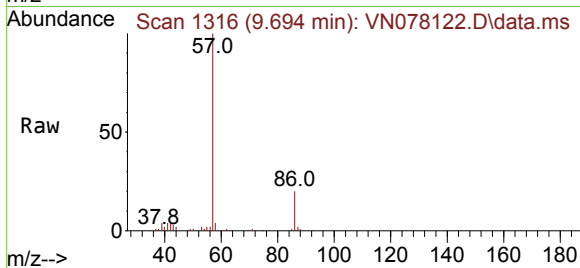
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 6705.3 47.0 70.4#



#50

Toluene-d8

Concen: 51.809 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078122.D

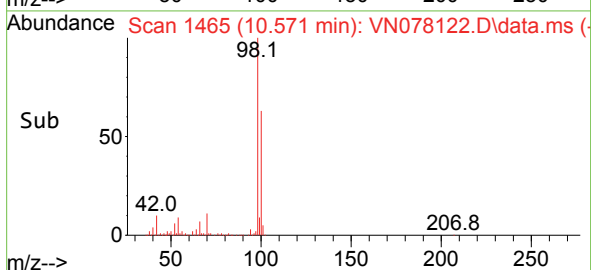
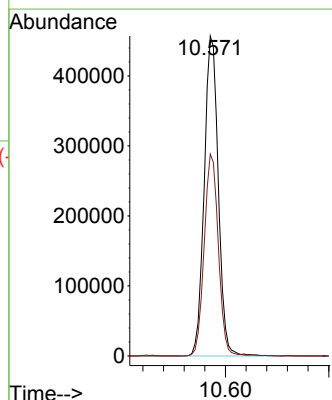
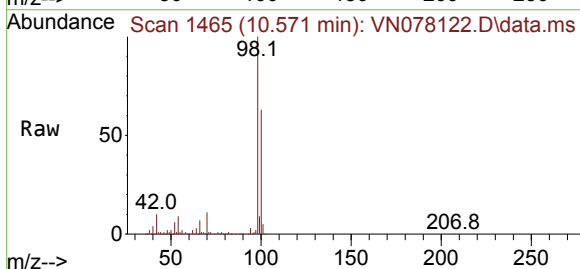
Acq: 08 Jun 2023 12:13

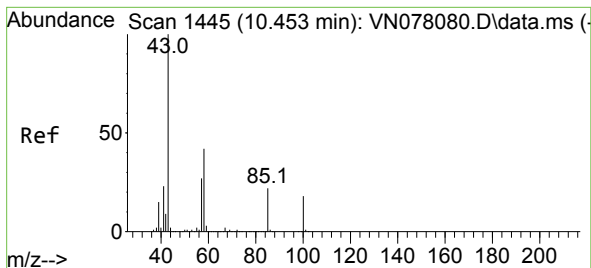
Tgt Ion: 98 Resp: 863302

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0

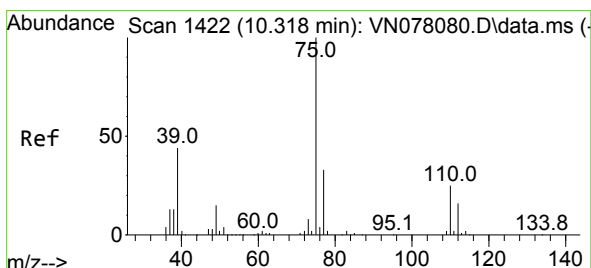
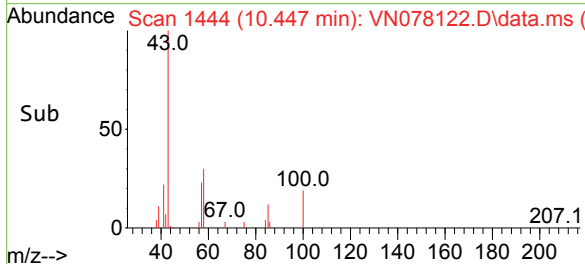
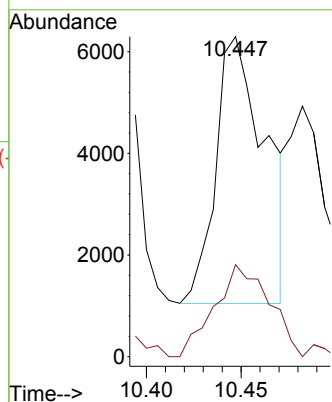
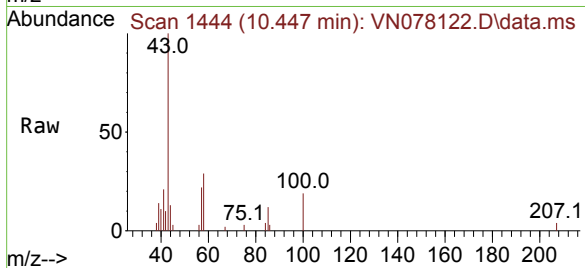




#51
4-Methyl-2-Pentanone
Concen: 1.947 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

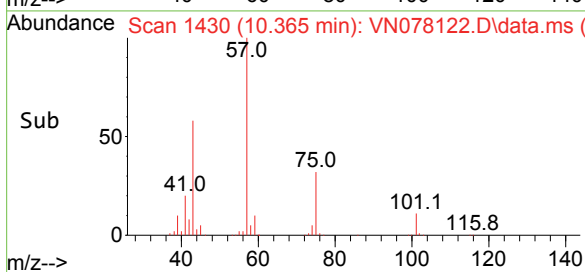
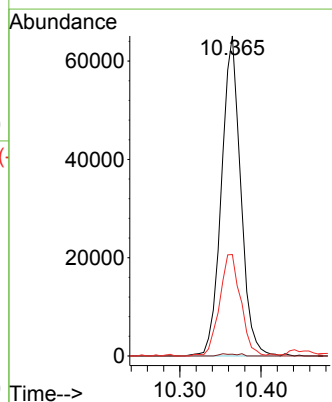
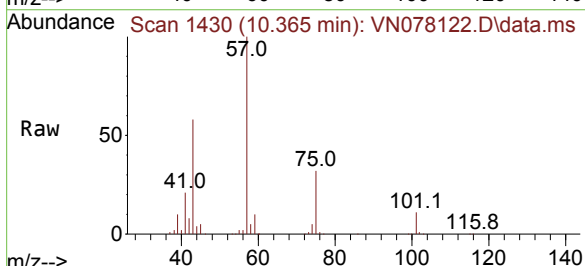
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

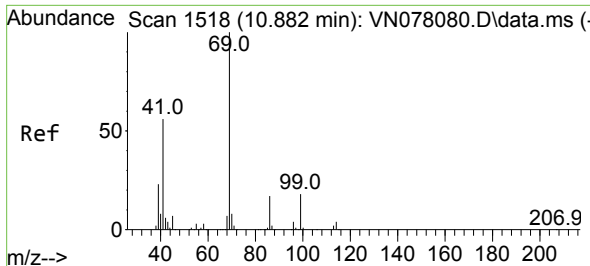
Tgt Ion: 43 Resp: 9497
Ion Ratio Lower Upper
43 100
58 38.2 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 14.794 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 75 Resp: 107313
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 31.7 31.6 47.4

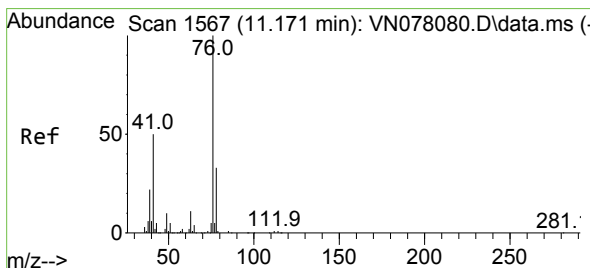
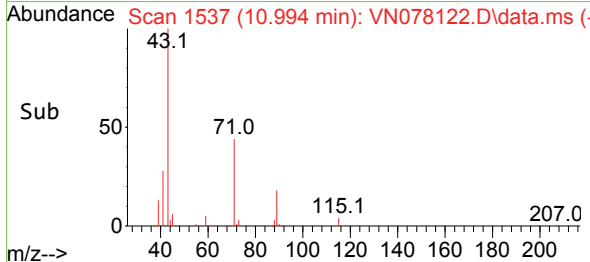
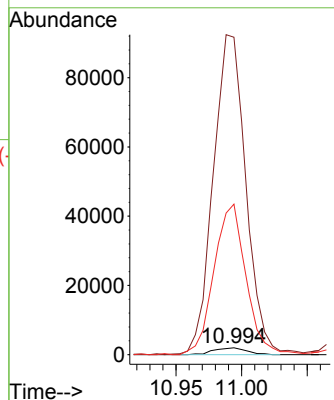
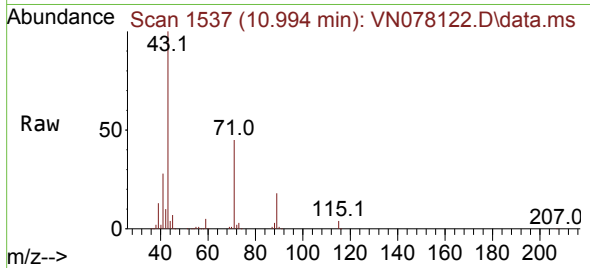




#56
Ethyl methacrylate
Concen: 0.543 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.112 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

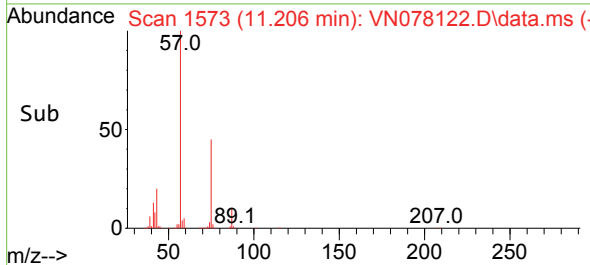
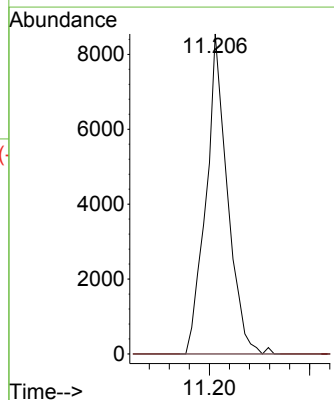
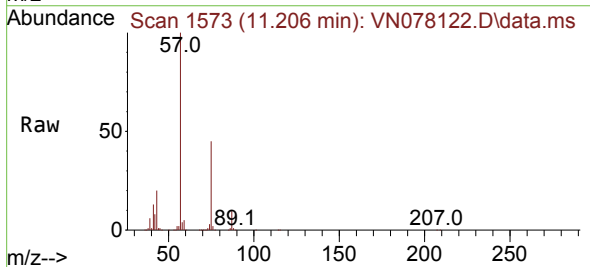
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

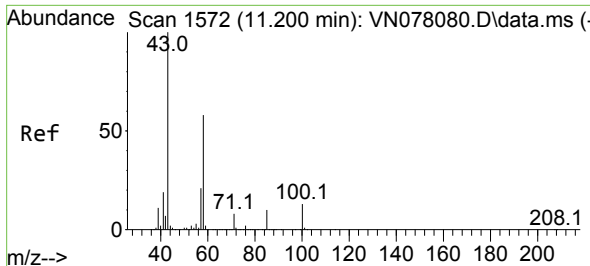
Tgt Ion: 69 Resp: 3493
Ion Ratio Lower Upper
69 100
41 4594.1 39.6 59.4#
39 2116.0 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.707 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 76 Resp: 12738
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

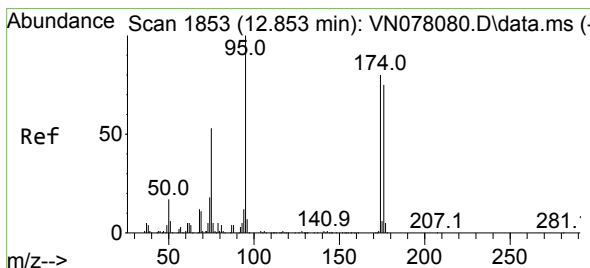
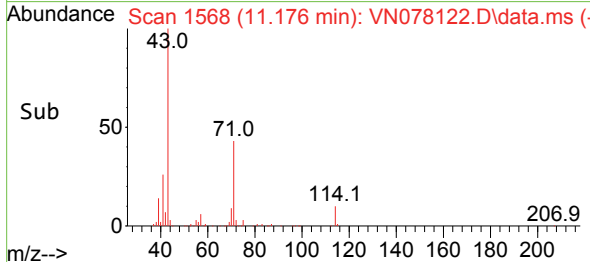
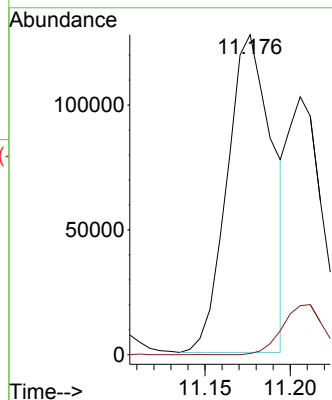
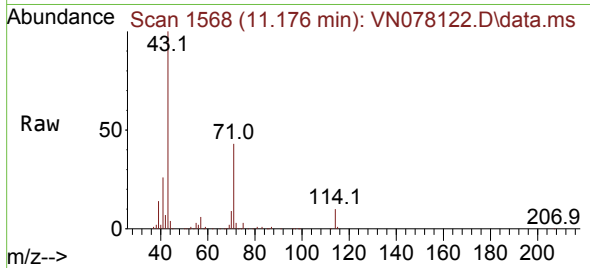




#59
2-Hexanone
Concen: 69.235 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

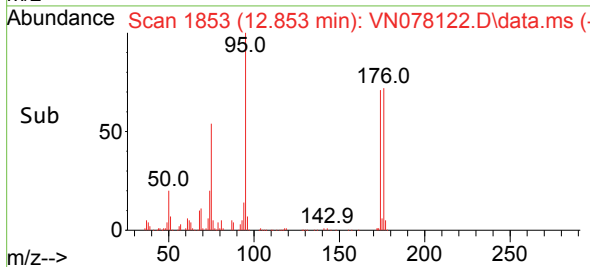
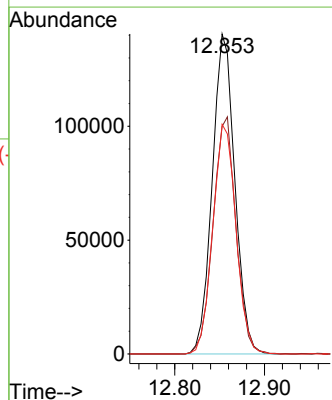
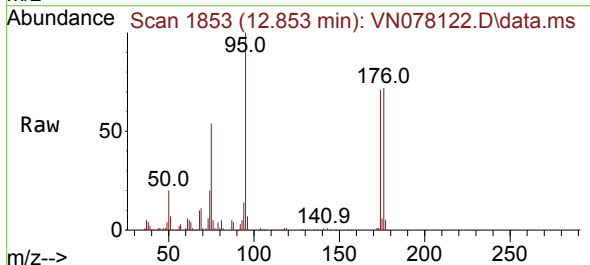
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

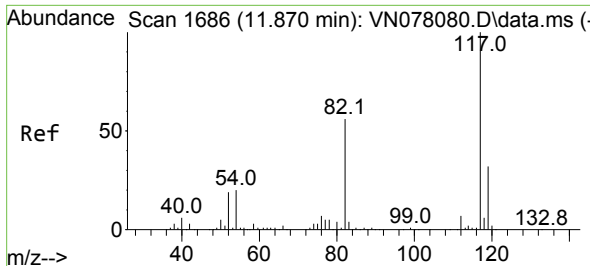
Tgt Ion: 43 Resp: 235141
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.443 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 95 Resp: 245763
Ion Ratio Lower Upper
95 100
174 74.9 0.0 143.8
176 73.9 0.0 135.8

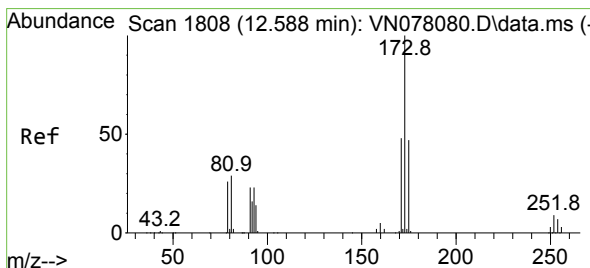
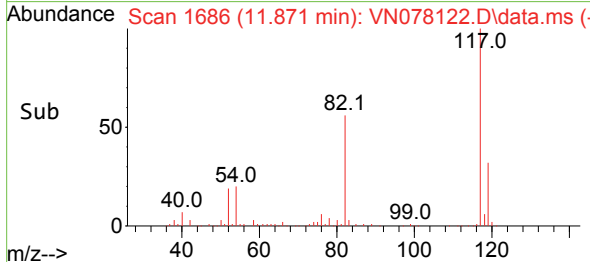
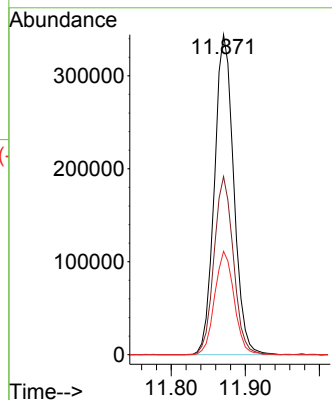
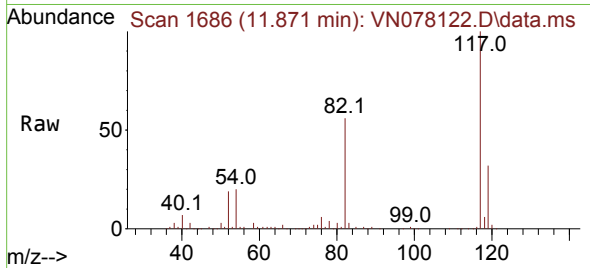




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

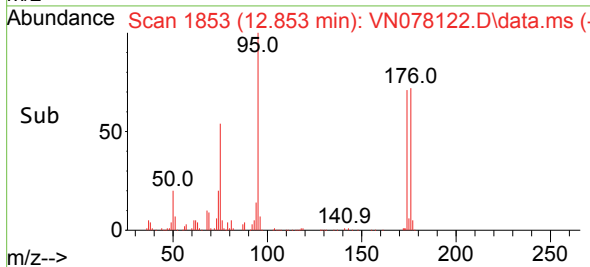
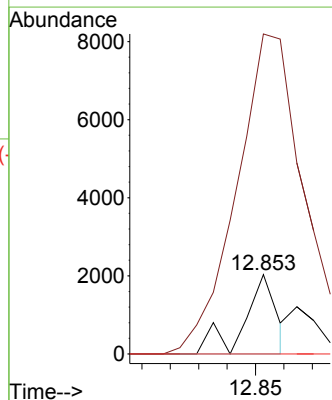
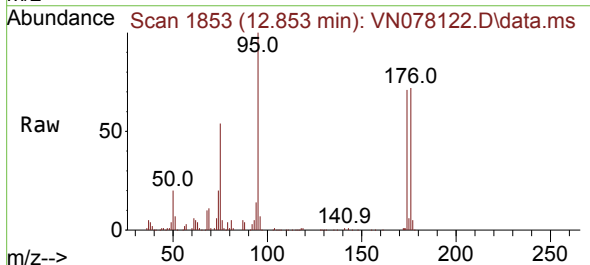
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

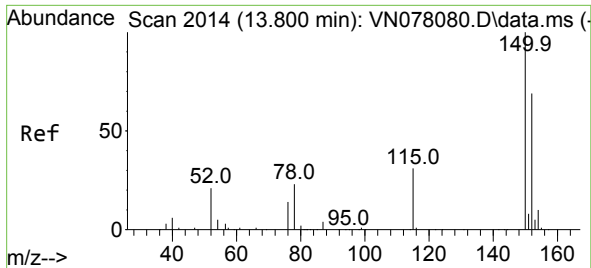
Tgt Ion:117 Resp: 623028
Ion Ratio Lower Upper
117 100
82 55.7 44.0 66.0
119 32.3 25.6 38.4



#71
Bromoform
Concen: 0.506 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.265 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion:173 Resp: 1603
Ion Ratio Lower Upper
173 100
175 718.5 24.3 73.0#
254 0.0 0.0 0.0

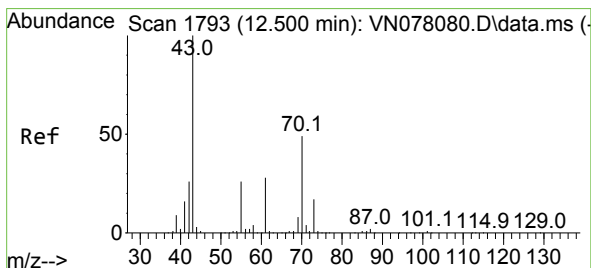
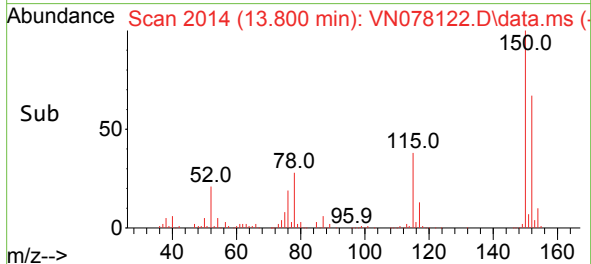
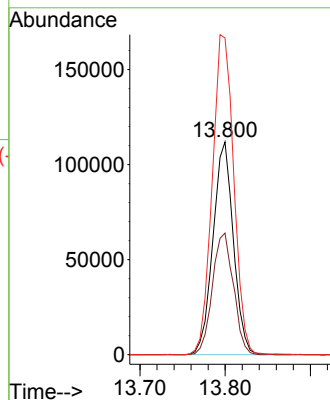
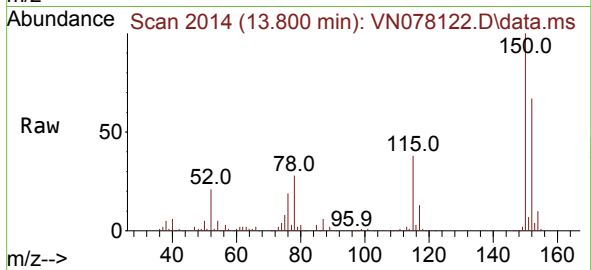




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN078122.D
 Acq: 08 Jun 2023 12:13

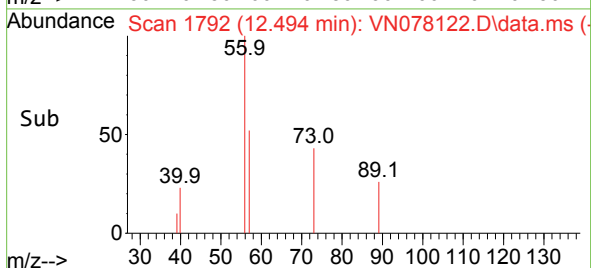
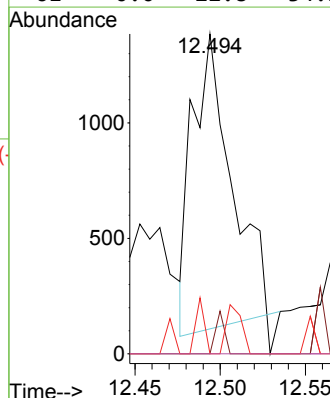
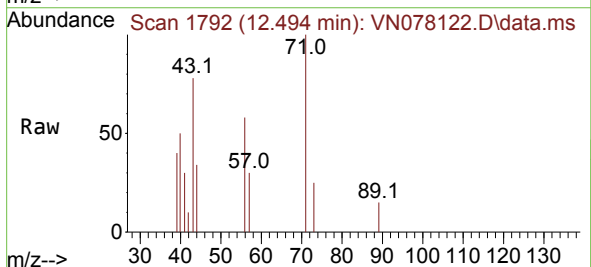
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-22-0A

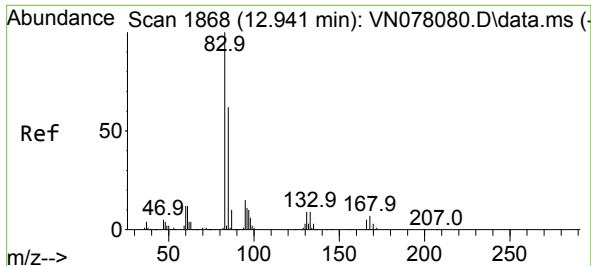
Tgt Ion:152 Resp: 186203
 Ion Ratio Lower Upper
 152 100
 115 58.9 32.3 96.8
 150 158.5 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.348 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN078122.D
 Acq: 08 Jun 2023 12:13

Tgt Ion: 43 Resp: 2019
 Ion Ratio Lower Upper
 43 100
 70 3.2 43.4 65.2#
 55 6.6 21.4 32.0#
 61 0.0 22.8 34.2#

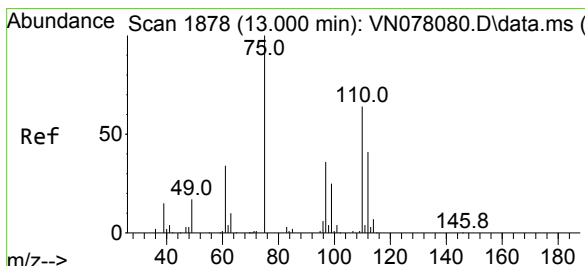
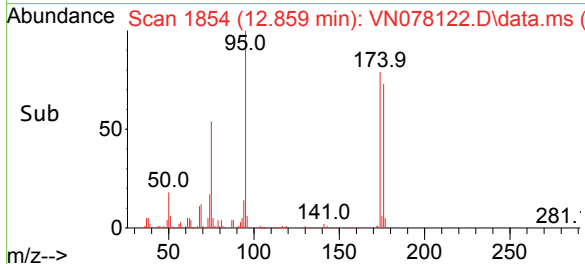
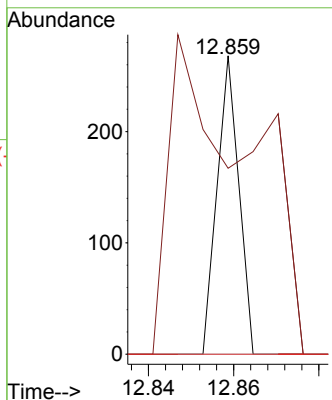
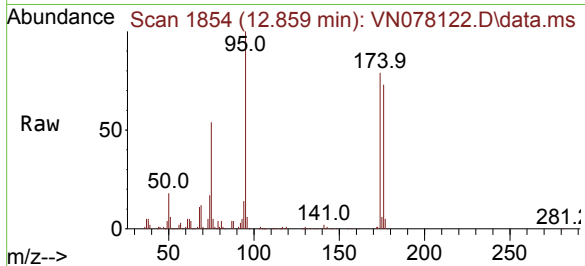




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.859 min Scan# 1854
Delta R.T. -0.082 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

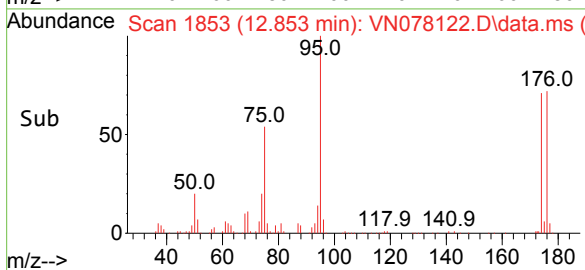
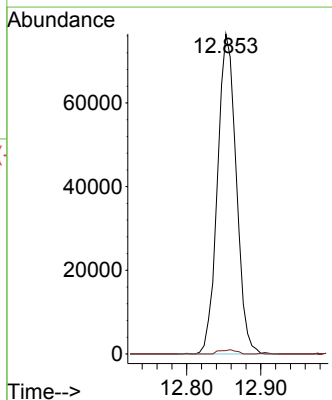
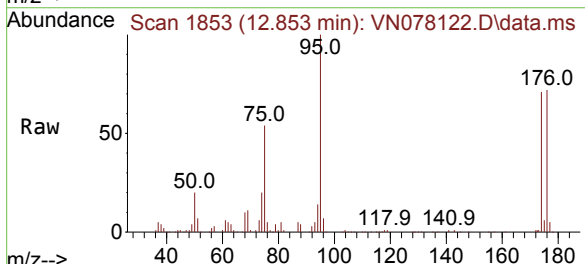
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ClientSampleId :
TP-22-0A

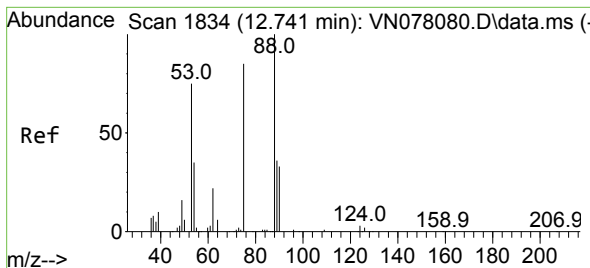
Tgt Ion: 83 Resp: 95
Ion Ratio Lower Upper
83 100
131 391.6 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 30.526 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 75 Resp: 134374
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#

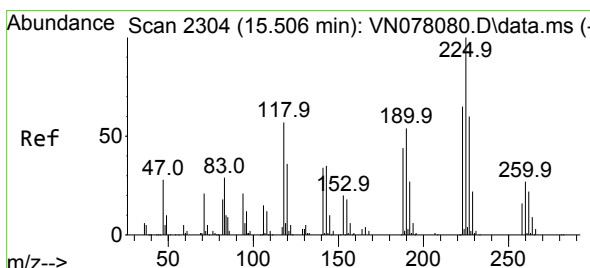
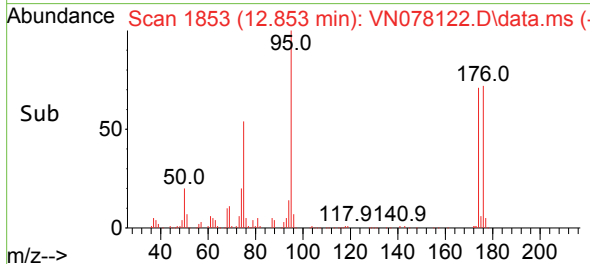
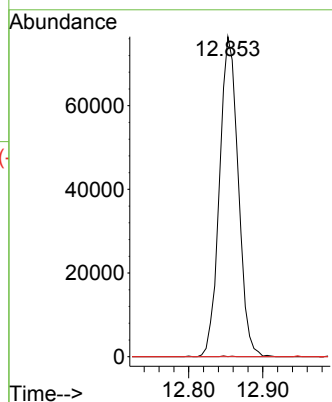
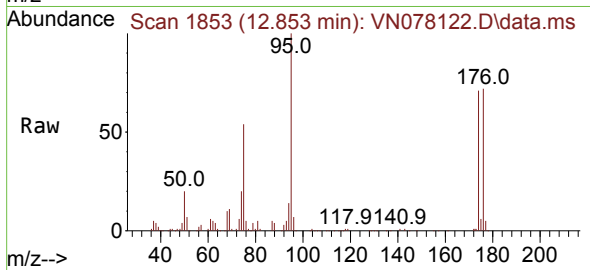




#81
trans-1,4-Dichloro-2-butene
Concen: 93.786 ug/l
RT: 12.853 min Scan# 1834
Delta R.T. 0.112 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

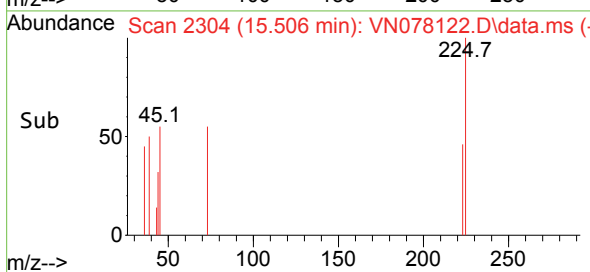
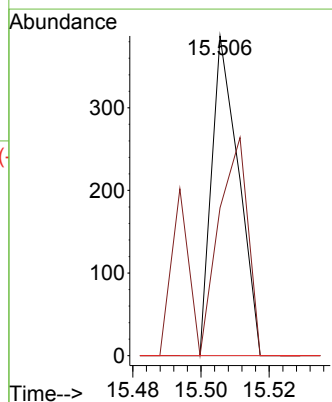
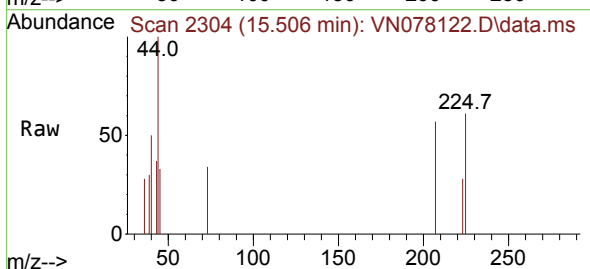
Instrument :
MSVOA_N
ClientSampleId :
TP-22-0A

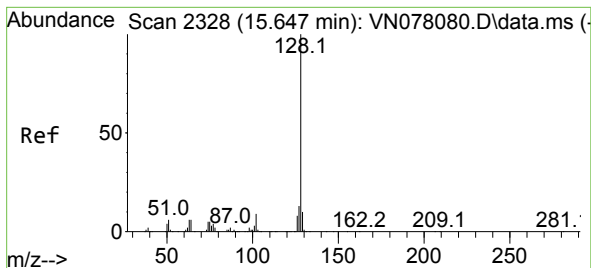
Tgt Ion: 75 Resp: 134374
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078122.D
Acq: 08 Jun 2023 12:13

Tgt Ion: 225 Resp: 212
Ion Ratio Lower Upper
225 100
223 107.5 31.3 93.8#
227 0.0 31.9 95.9#





#95

Naphthalene

Concen: 0.244 ug/l

RT: 15.653 min Scan# 2329

Delta R.T. 0.006 min

Lab File: VN078122.D

Acq: 08 Jun 2023 12:13

Instrument :

MSVOA_N

ClientSampleId :

TP-22-0A

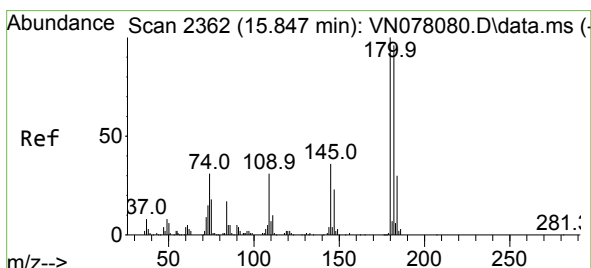
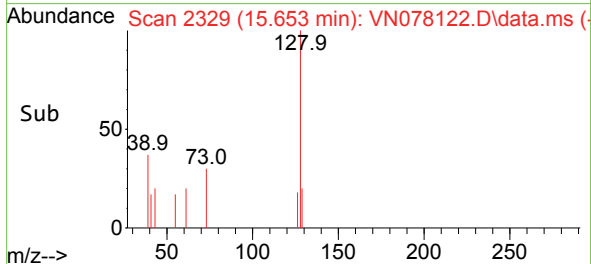
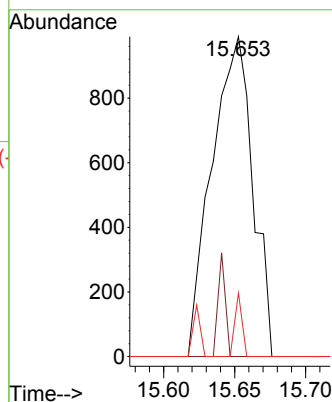
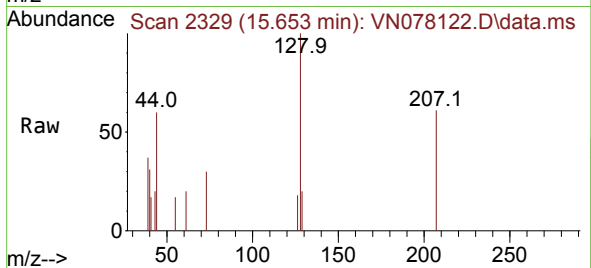
Tgt Ion:128 Resp: 1978

Ion Ratio Lower Upper

128 100

127 5.7 10.0 15.0#

129 3.5 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.237 ug/l

RT: 15.864 min Scan# 2365

Delta R.T. 0.018 min

Lab File: VN078122.D

Acq: 08 Jun 2023 12:13

Tgt Ion:180 Resp: 639

Ion Ratio Lower Upper

180 100

182 0.0 46.2 138.6#

145 0.0 17.5 52.6#

