

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092623\
 Data File : VN079351.D
 Acq On : 26 Sep 2023 13:44
 Operator : JC\MD
 Sample : 04601-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 27 06:26:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

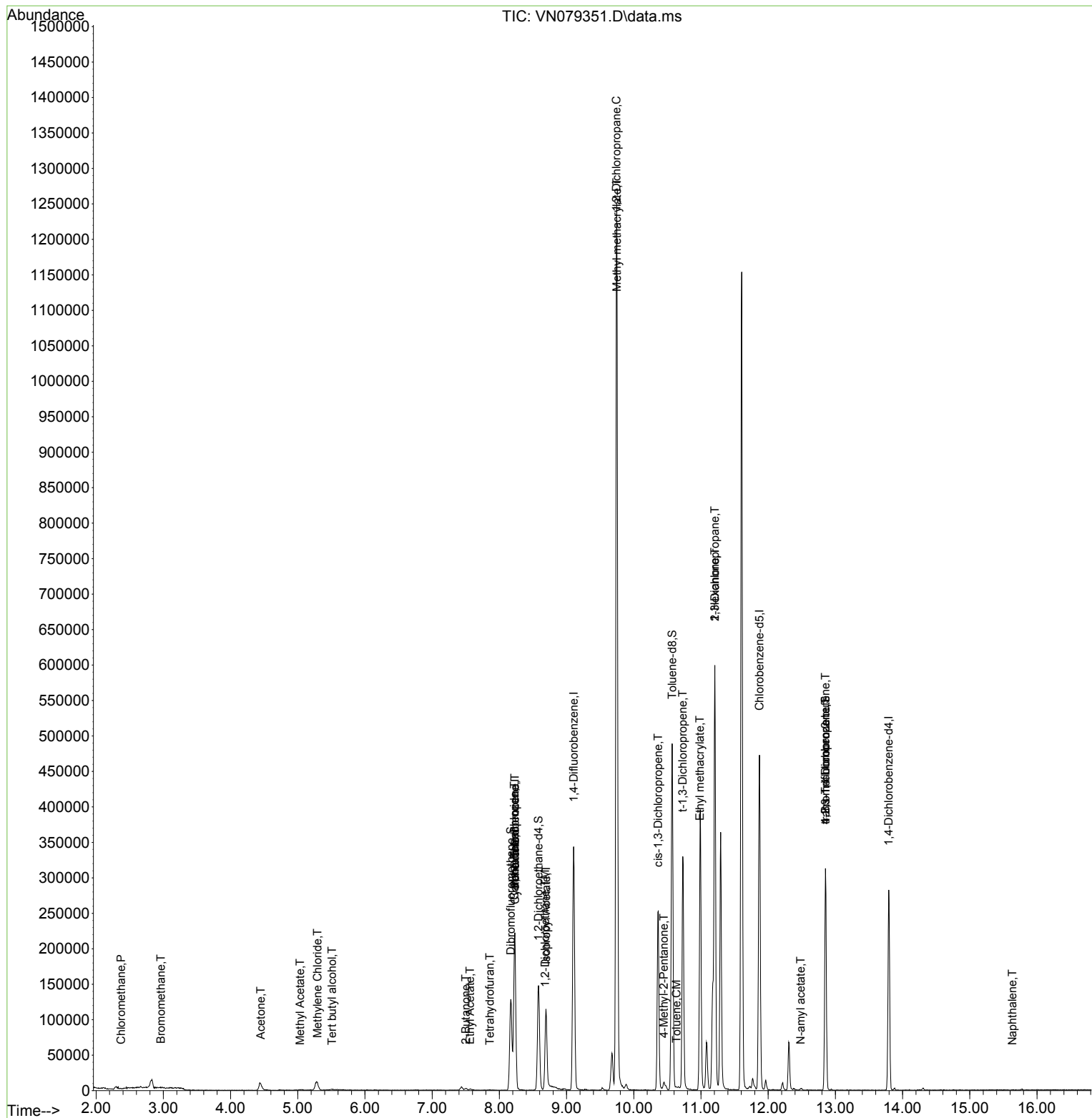
Internal Standards						
1) Pentafluorobenzene	8.230	168	152390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	285817	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	259889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	72671	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	117032	56.891	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.780%			
35) Dibromofluoromethane	8.171	113	92990	48.911	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.820%			
50) Toluene-d8	10.571	98	328746	47.092	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.180%			
62) 4-Bromofluorobenzene	12.853	95	100460	45.115	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 90.220%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	542	0.274	ug/l #	42
5) Bromomethane	2.965	94	326	0.263	ug/l #	78
6) Chloroethane	3.100	64	149	Below Cal	#	43
11) Tert butyl alcohol	5.512	59	320	0.843	ug/l #	72
16) Acetone	4.447	43	20043	22.941	ug/l	95
18) Methyl Acetate	5.036	43	2036	0.567	ug/l #	48
20) Methylene Chloride	5.294	84	9563	4.498	ug/l #	89
25) 2-Butanone	7.500	43	4433	3.497	ug/l #	79
29) Tetrahydrofuran	7.859	42	531	0.658	ug/l #	27
31) Cyclohexane	8.235	56	4149	1.381	ug/l #	32
36) 1,1-Dichloropropene	8.230	75	13434	4.584	ug/l #	48
37) Ethyl Acetate	7.565	43	3701	1.266	ug/l #	67
38) Carbon Tetrachloride	8.224	117	16795	5.538	ug/l #	18
42) 1,2-Dichloroethane	8.682	62	853	0.276	ug/l #	73
43) Isopropyl Acetate	8.694	43	128782	27.002	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	1546	0.694	ug/l #	45
48) Methyl methacrylate	9.747	41	116820	54.684	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	12607	4.554	ug/l #	62
52) Toluene	10.635	92	1111	0.202	ug/l	95
53) t-1,3-Dichloropropene	10.729	75	686	0.210	ug/l #	60
54) cis-1,3-Dichloropropene	10.365	75	43384	12.427	ug/l #	72
56) Ethyl methacrylate	10.982	69	1938	0.635	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5247	1.403	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.165	63	232	Below Cal	#	42
59) 2-Hexanone	11.206	43	73409	36.609	ug/l #	51
74) N-amyl acetate	12.482	43	1585	0.632	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	57688	29.454	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	57688	80.975	ug/l #	15
95) Naphthalene	15.635	128	603	0.208	ug/l #	70

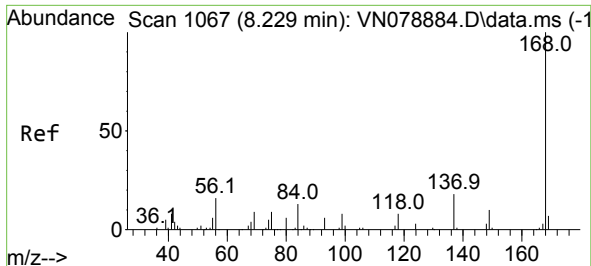
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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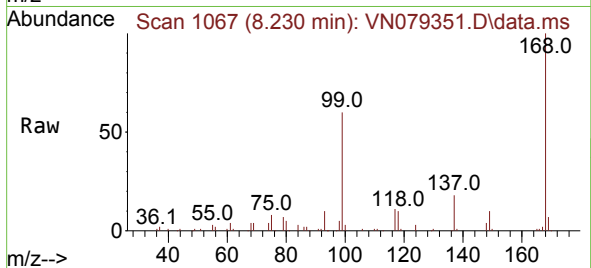
Quant Time: Sep 27 06:26:06 2023
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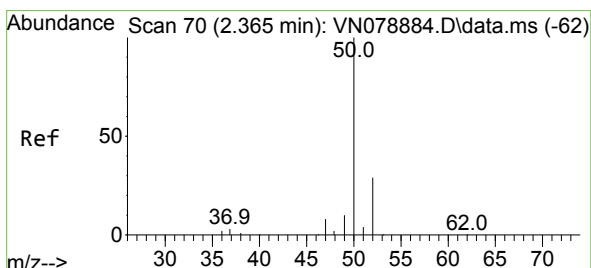
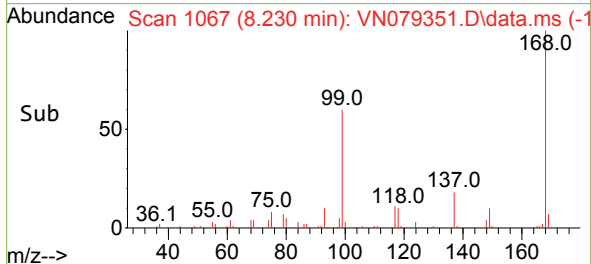
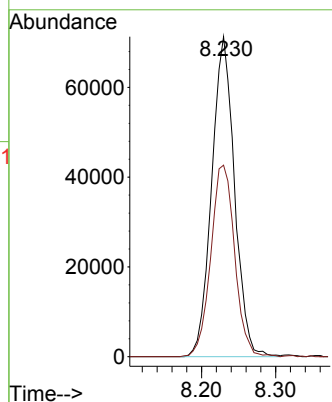


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Instrument :
MSVOA_N
ClientSampleId :

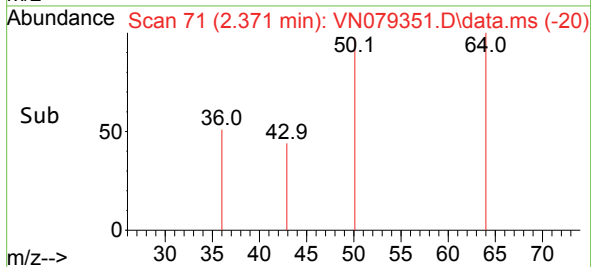
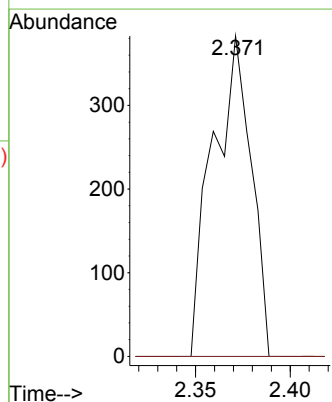
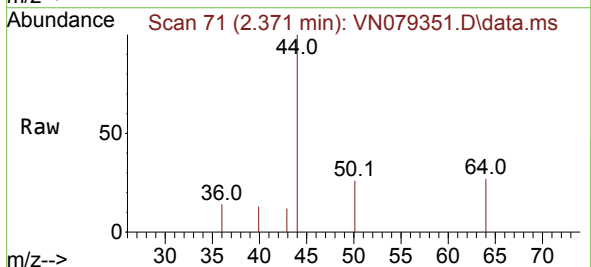


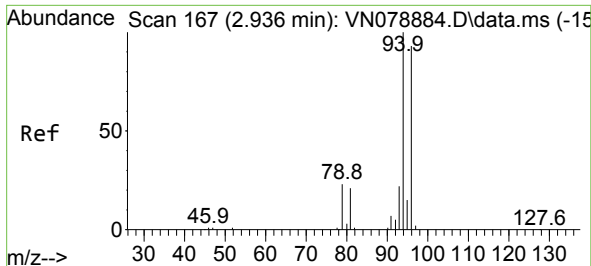
Tgt Ion:168 Resp: 152390
Ion Ratio Lower Upper
168 100
99 59.8 53.0 79.6



#3
Chloromethane
Concen: 0.274 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 50 Resp: 542
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

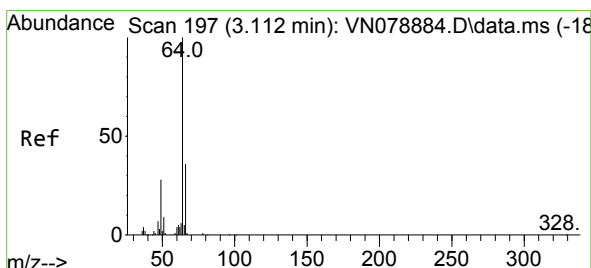
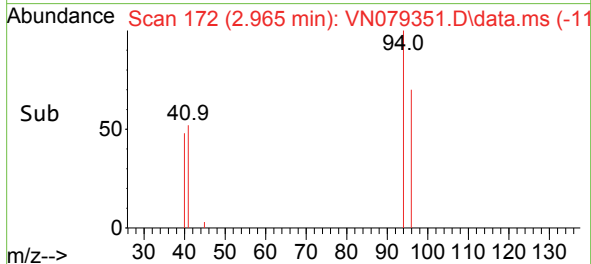
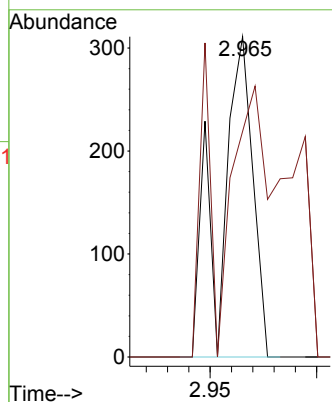
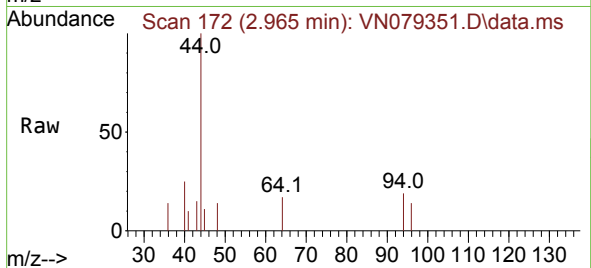




#5
Bromomethane
Concen: 0.263 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

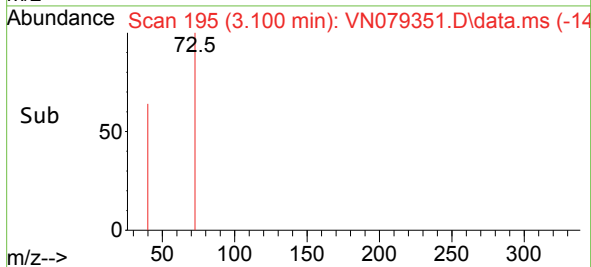
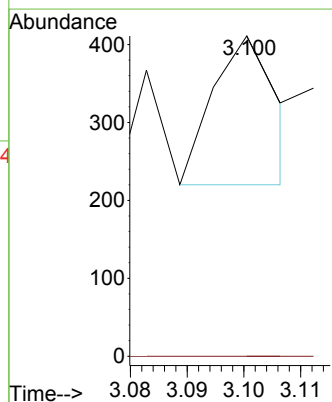
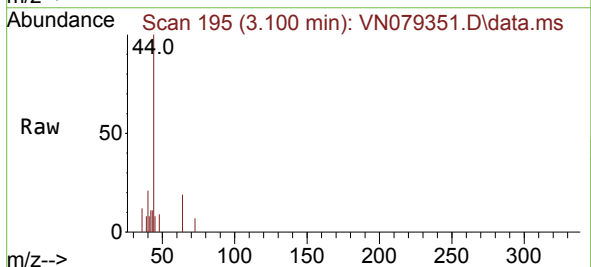
Instrument :
MSVOA_N
ClientSampleId :

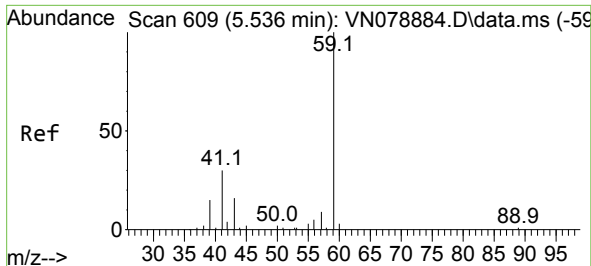
Tgt Ion: 94 Resp: 326
Ion Ratio Lower Upper
94 100
96 70.4 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

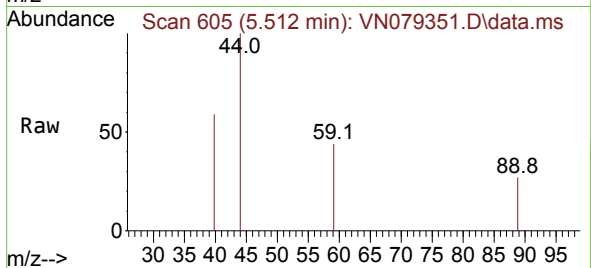
Tgt Ion: 64 Resp: 149
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



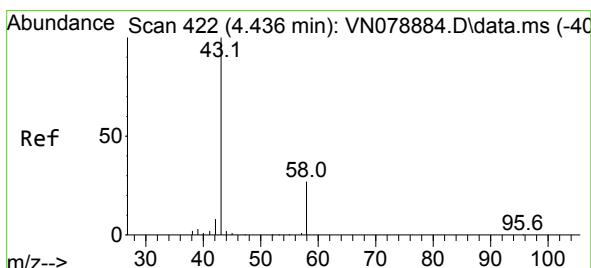
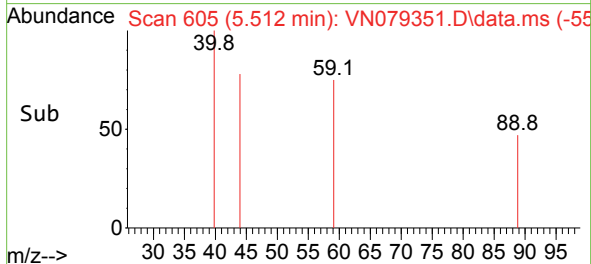
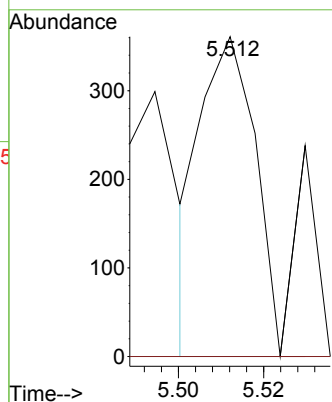


#11
Tert butyl alcohol
Concen: 0.843 ug/l
RT: 5.512 min Scan# 609
Delta R.T. -0.030 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Instrument :
MSVOA_N
ClientSampleId :

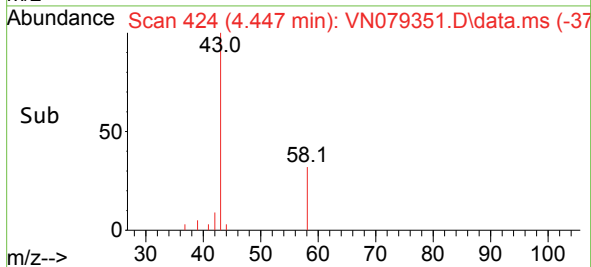
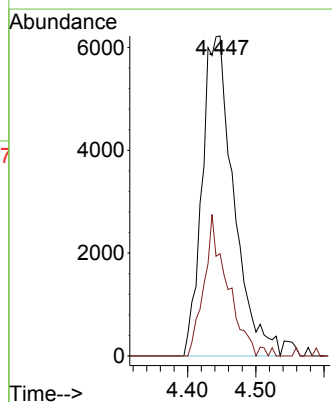
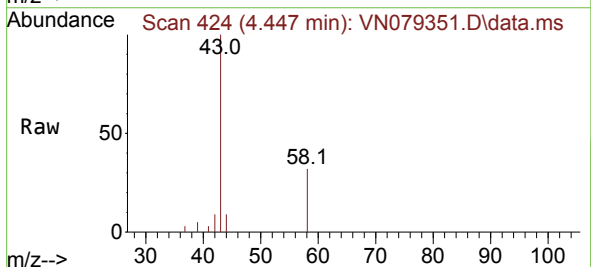


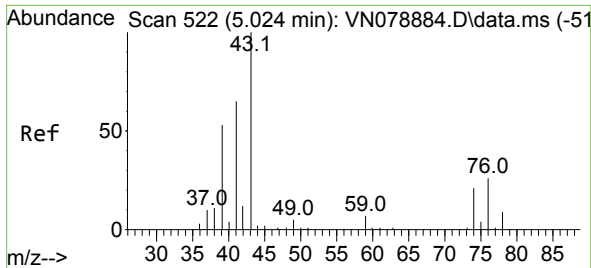
Tgt Ion: 59 Resp: 320
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 22.941 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 43 Resp: 20043
Ion Ratio Lower Upper
43 100
58 31.9 28.0 42.0

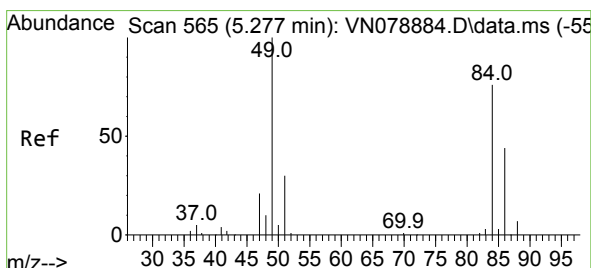
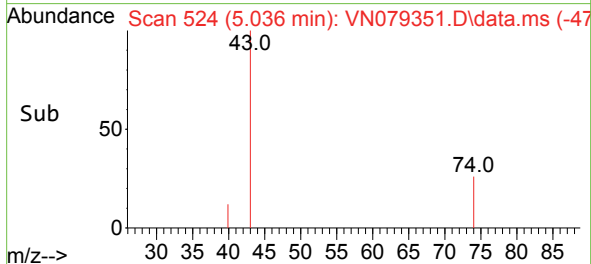
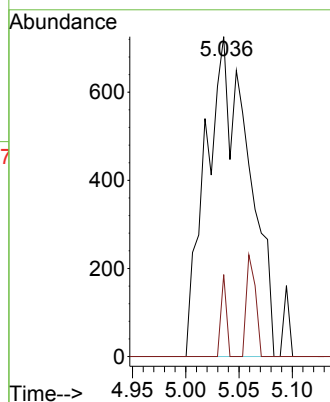
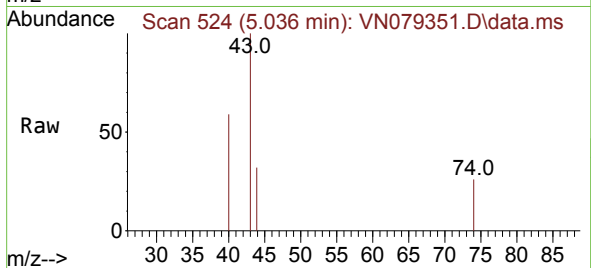




#18
Methyl Acetate
Concen: 0.567 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

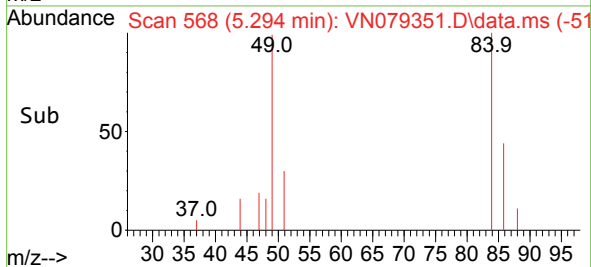
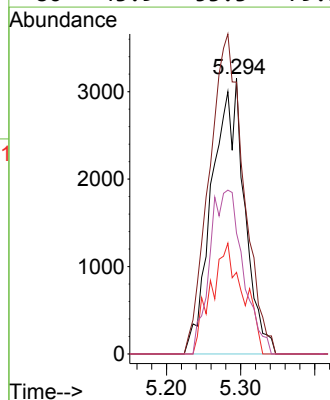
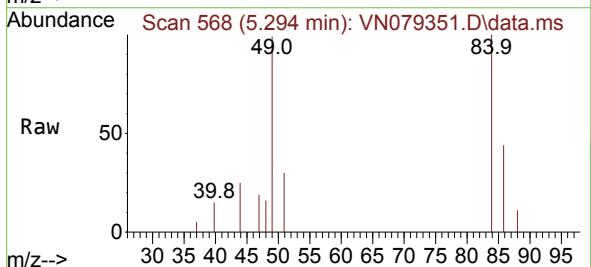
Instrument :
MSVOA_N
ClientSampleId :

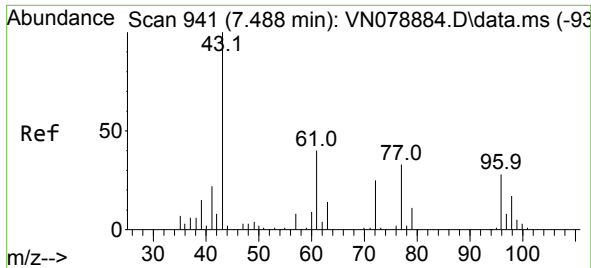
Tgt Ion: 43 Resp: 2036
Ion Ratio Lower Upper
43 100
74 3.2 26.2 39.4#



#20
Methylene Chloride
Concen: 4.498 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 84 Resp: 9563
Ion Ratio Lower Upper
84 100
49 98.7 79.7 119.5
51 29.6 25.2 37.8
86 43.9 53.3 79.9#

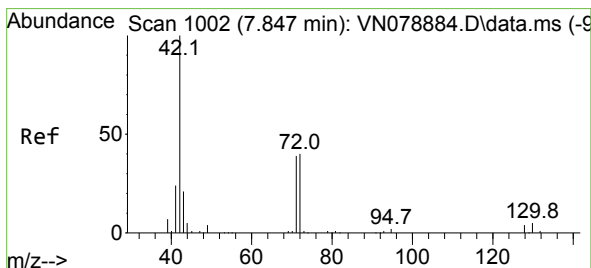
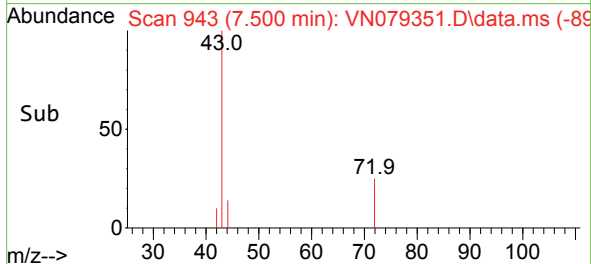
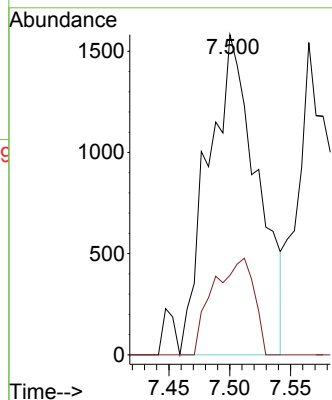
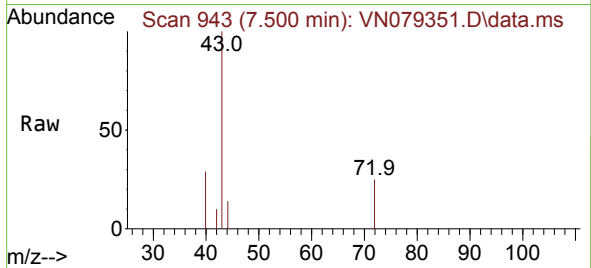




#25
2-Butanone
Concen: 3.497 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

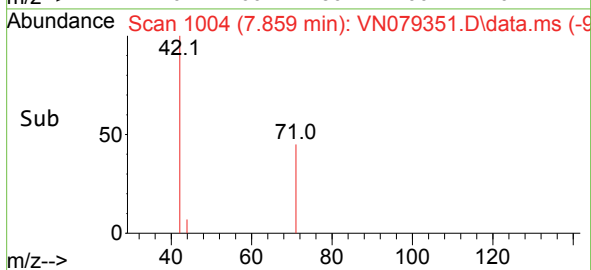
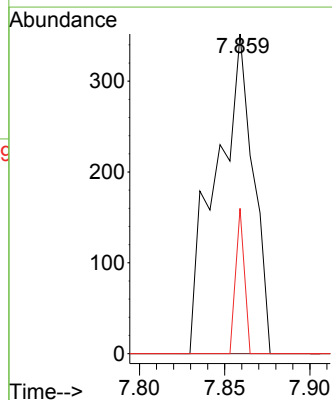
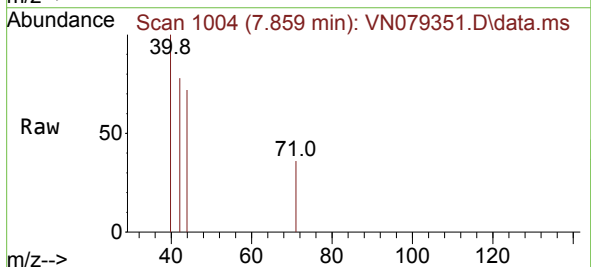
Instrument :
MSVOA_N
ClientSampleId :

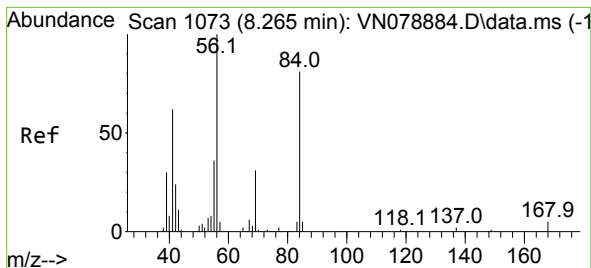
Tgt Ion: 43 Resp: 4433
Ion Ratio Lower Upper
43 100
72 24.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.658 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 42 Resp: 531
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 10.5 47.4 71.2#





#31

Cyclohexane

Concen: 1.381 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

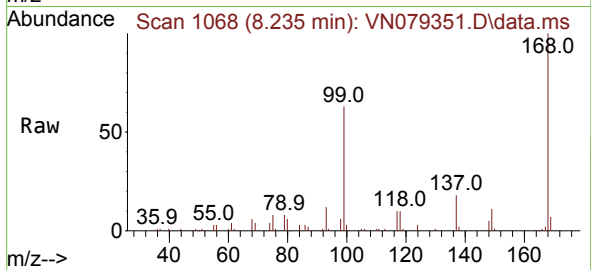
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Acq: 26 Sep 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :



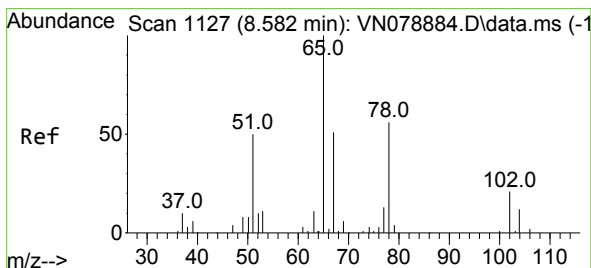
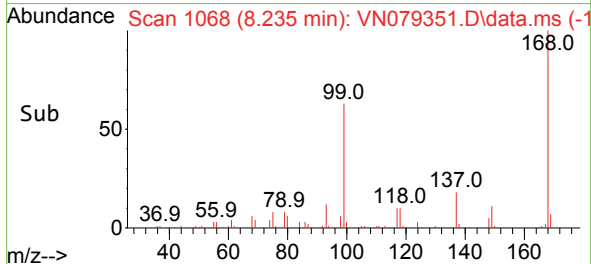
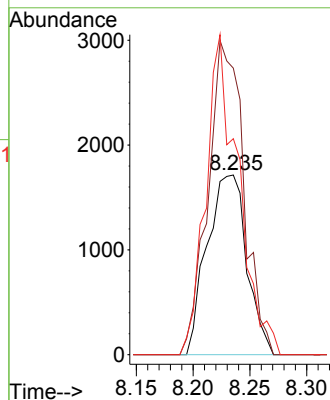
Tgt Ion: 56 Resp: 4149

Ion Ratio Lower Upper

56 100

69 159.6 26.8 40.2#

84 120.3 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 56.891 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079351.D

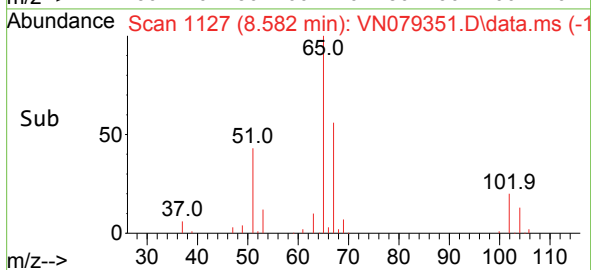
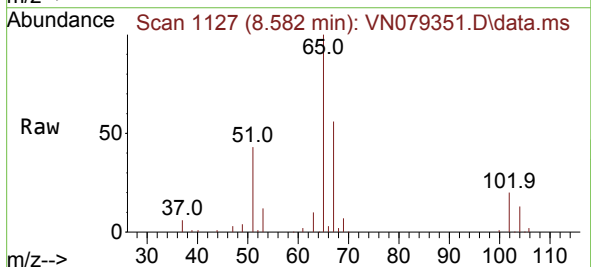
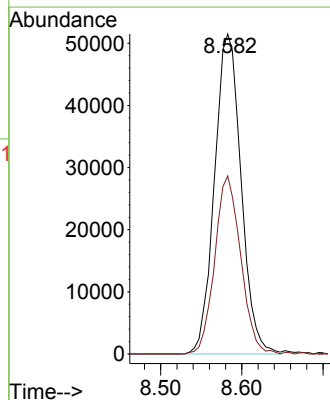
Acq: 26 Sep 2023 13:44

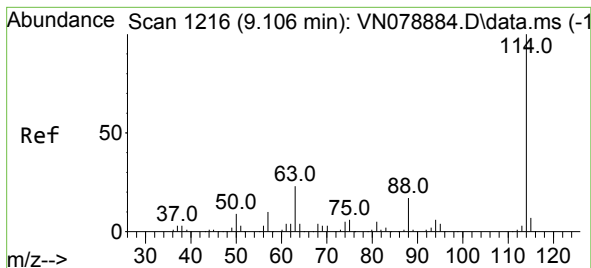
Tgt Ion: 65 Resp: 117032

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079351.D

Acq: 26 Sep 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :

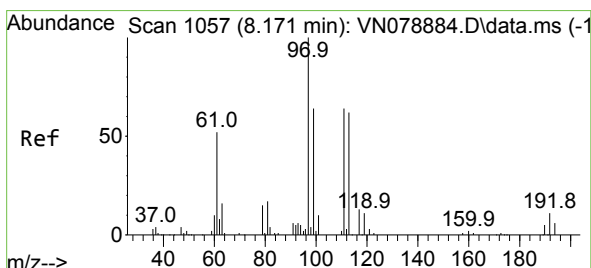
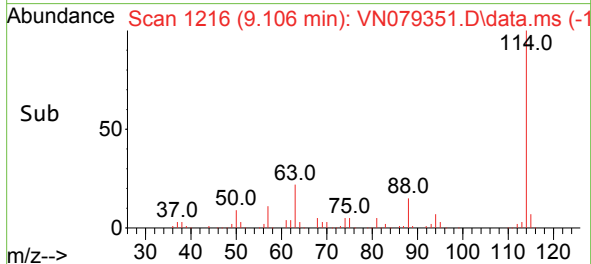
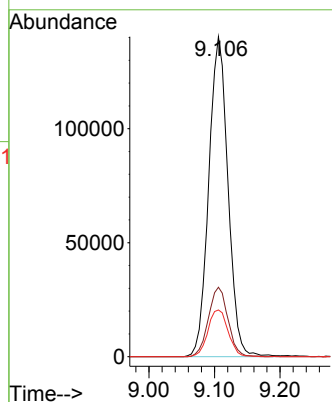
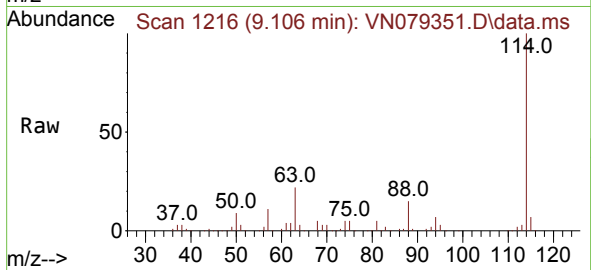
Tgt Ion:114 Resp: 285817

Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.911 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079351.D

Acq: 26 Sep 2023 13:44

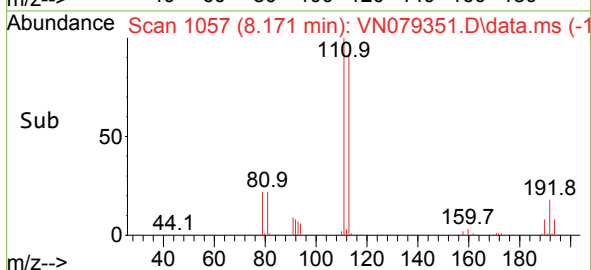
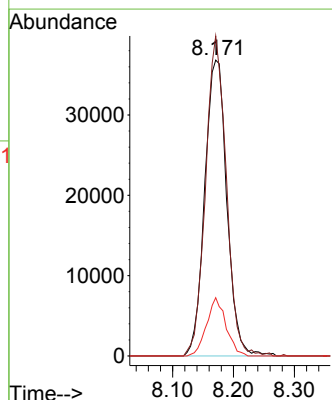
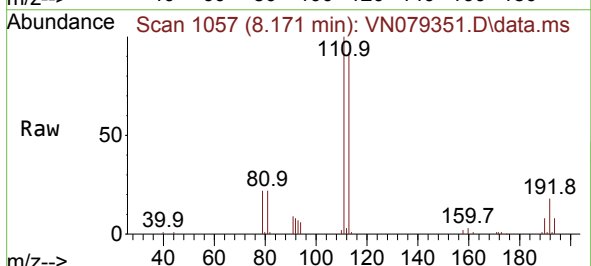
Tgt Ion:113 Resp: 92990

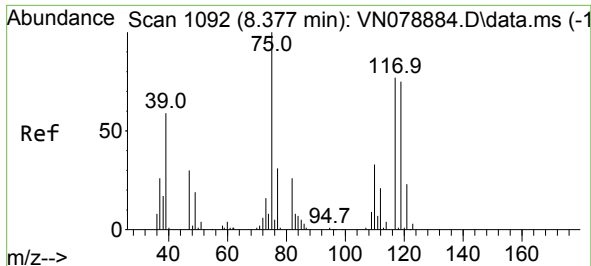
Ion Ratio Lower Upper

113 100

111 101.5 82.6 123.8

192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.584 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

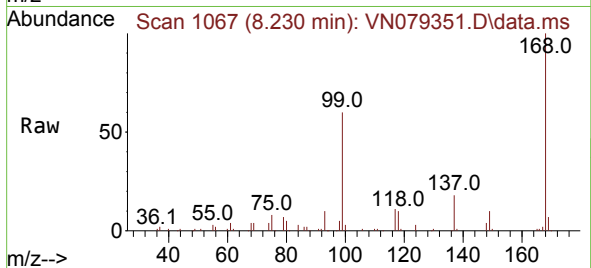
Lab File: VN079351.D

Acq: 26 Sep 2023 13:44

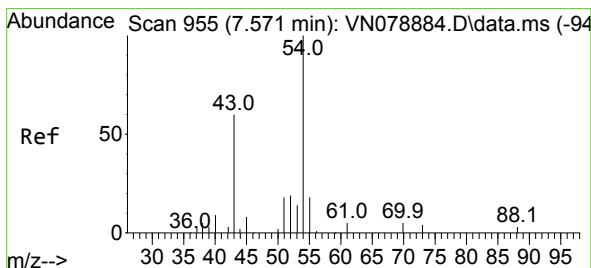
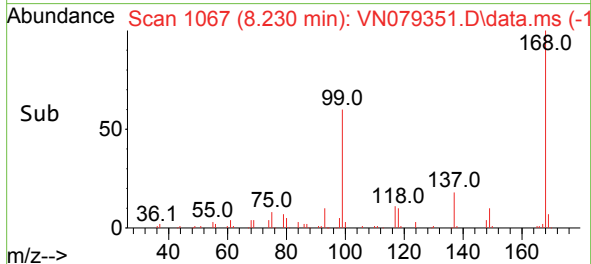
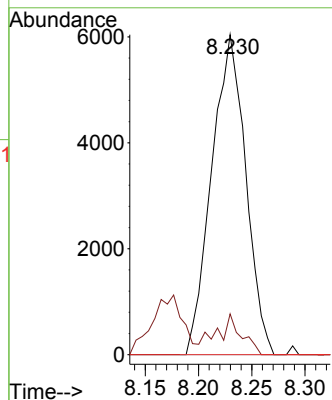
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 13434
Ion Ratio	Lower Upper
75	100
110	9.2 19.1 57.3#
77	0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.266 ug/l

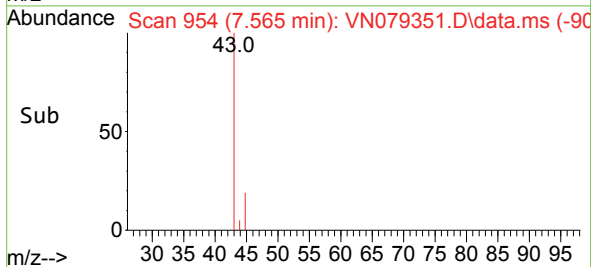
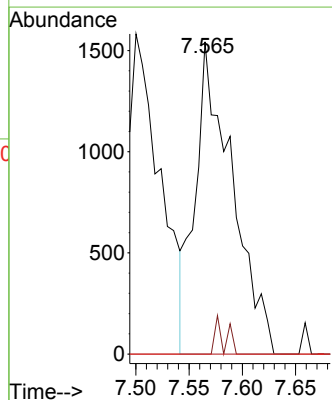
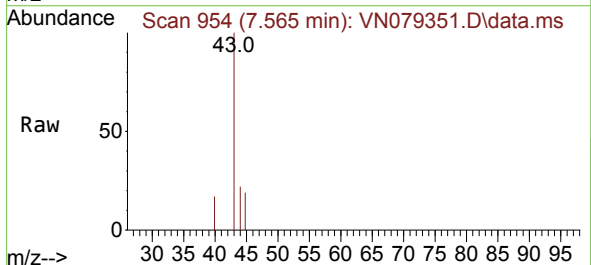
RT: 7.565 min Scan# 954

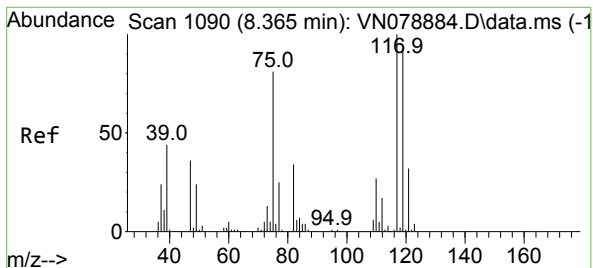
Delta R.T. -0.006 min

Lab File: VN079351.D

Acq: 26 Sep 2023 13:44

Tgt Ion: 43	Resp: 3701
Ion Ratio	Lower Upper
43	100
61	3.2 13.2 19.8#
70	0.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.538 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

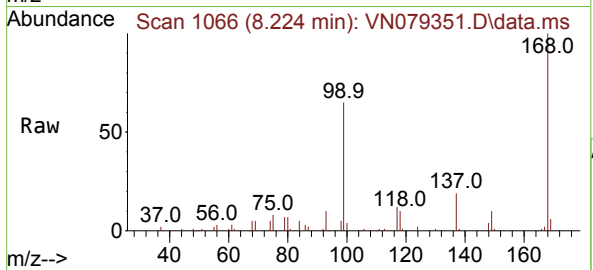
Lab File: VN079351.D

Acq: 26 Sep 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :



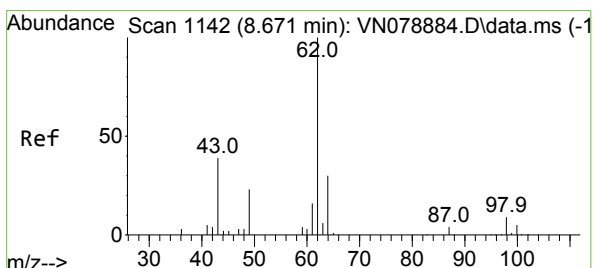
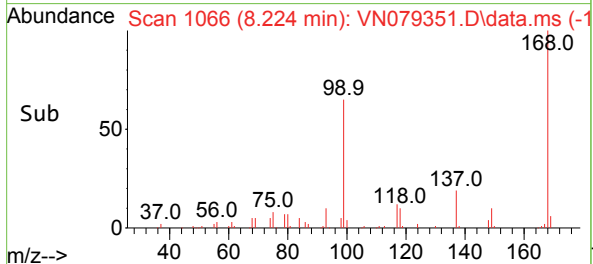
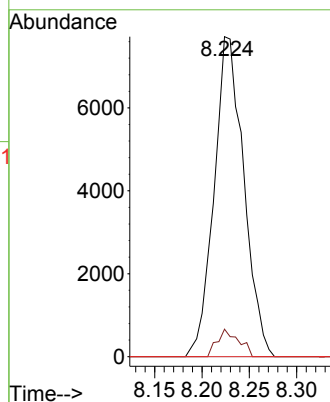
Tgt Ion:117 Resp: 16795

Ion Ratio Lower Upper

117 100

119 8.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.276 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN079351.D

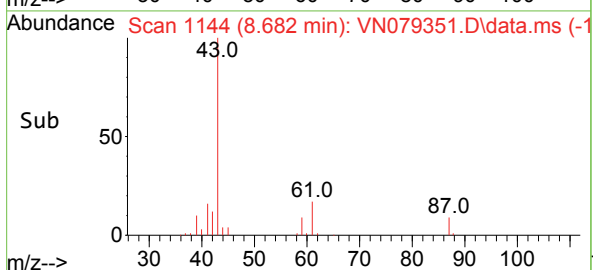
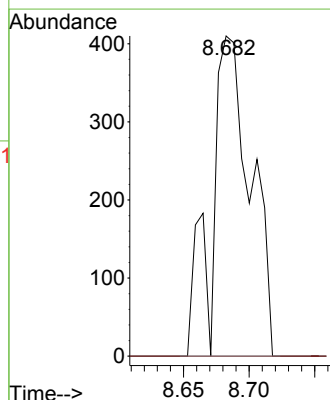
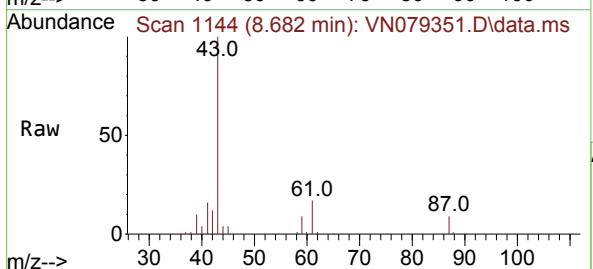
Acq: 26 Sep 2023 13:44

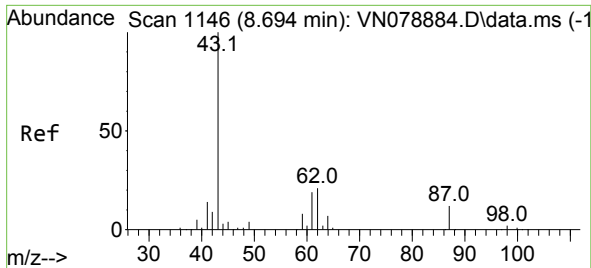
Tgt Ion: 62 Resp: 853

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

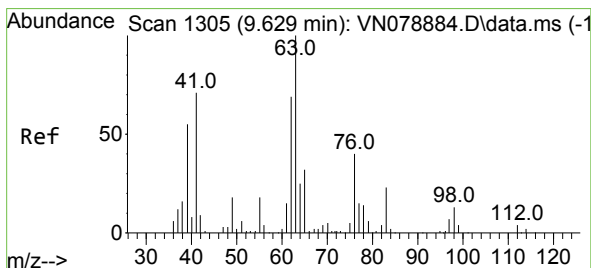
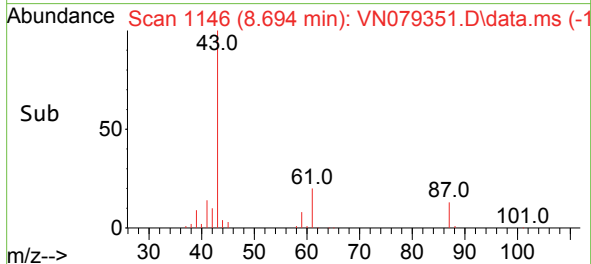
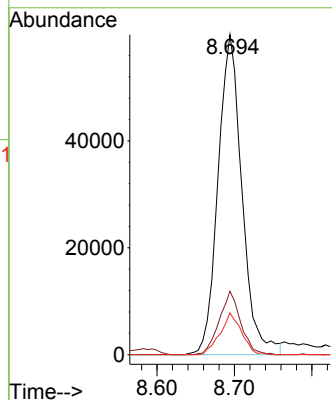
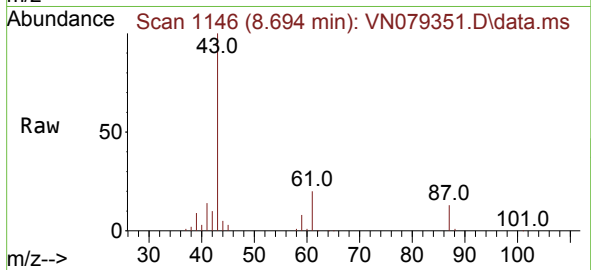




#43
Isopropyl Acetate
Concen: 27.002 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

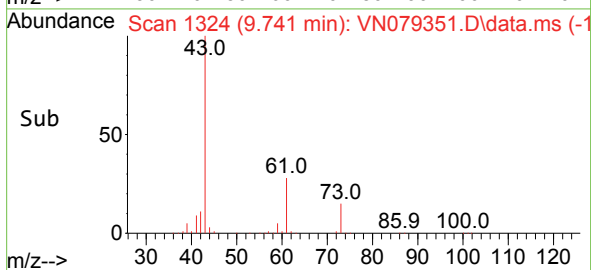
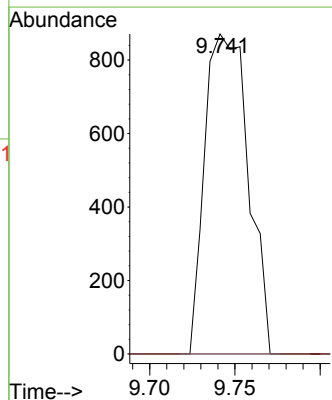
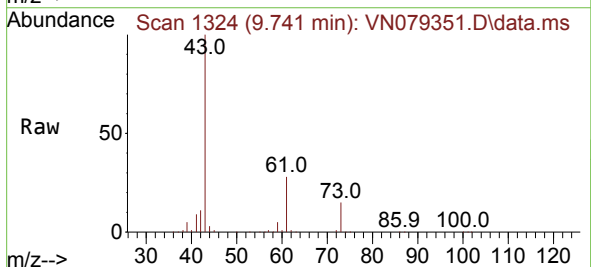
Instrument :
MSVOA_N
ClientSampleId :

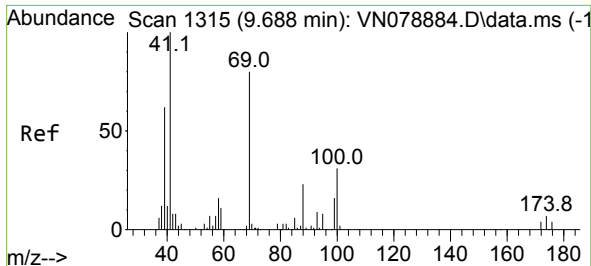
Tgt Ion: 43 Resp: 128782
Ion Ratio Lower Upper
43 100
61 17.8 24.7 37.1#
87 11.7 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.694 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.117 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

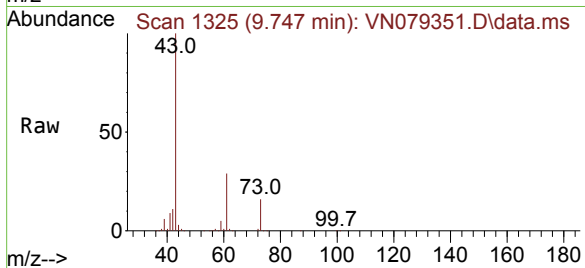
Tgt Ion: 63 Resp: 1546
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



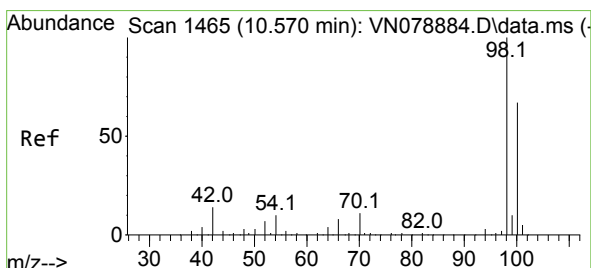
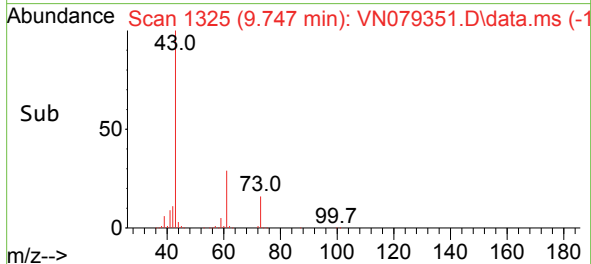
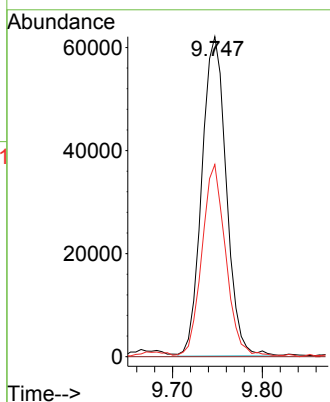


#48
Methyl methacrylate
Concen: 54.684 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Instrument :
MSVOA_N
ClientSampleId :

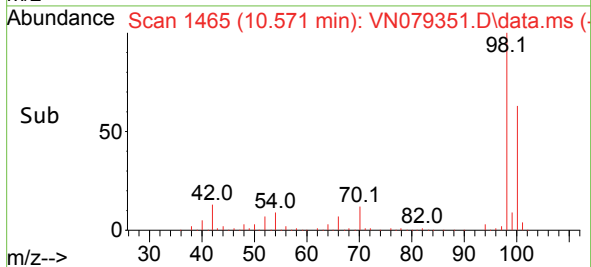
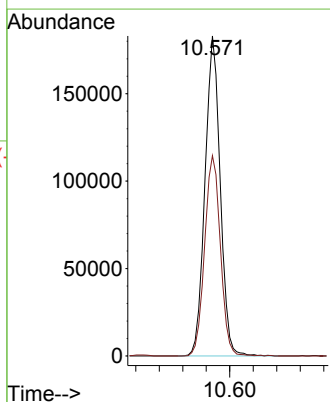
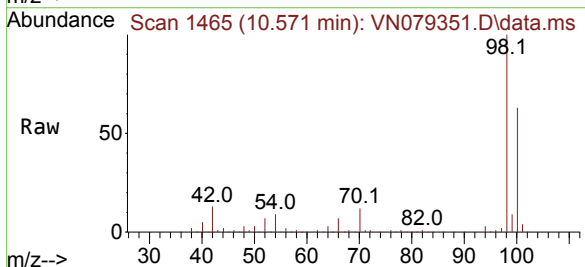


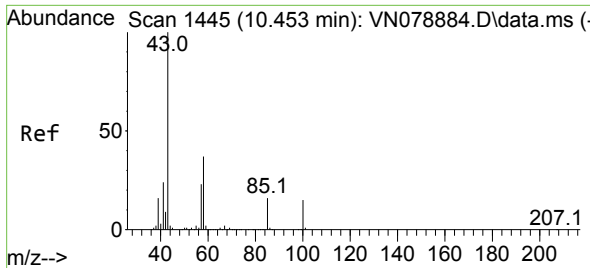
Tgt Ion: 41 Resp: 116820
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 58.3 54.6 81.8



#50
Toluene-d8
Concen: 47.092 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

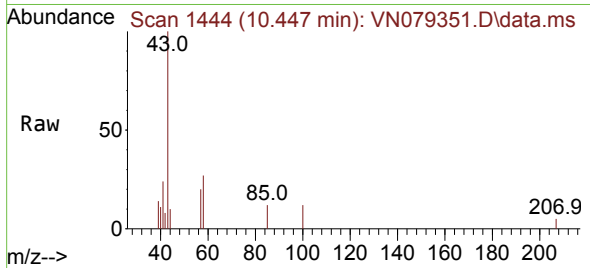
Tgt Ion: 98 Resp: 328746
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



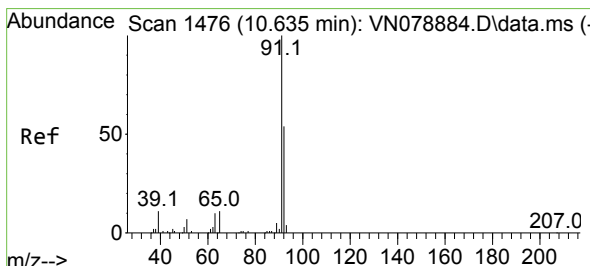
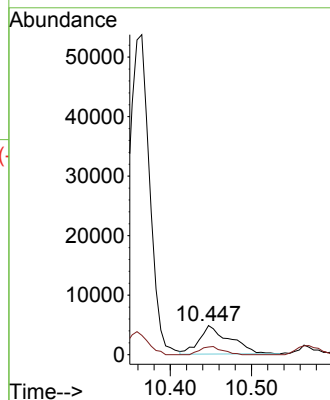
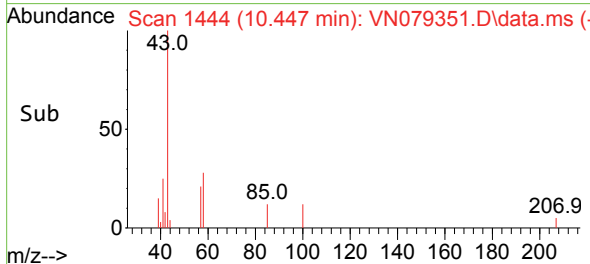


#51
4-Methyl-2-Pentanone
Concen: 4.554 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Instrument :
MSVOA_N
ClientSampleId :

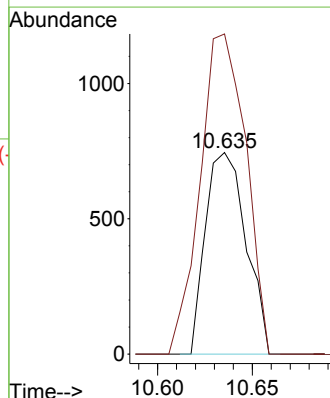
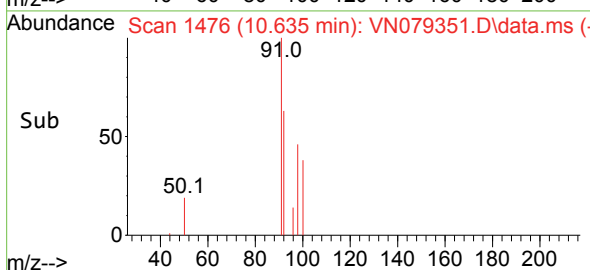
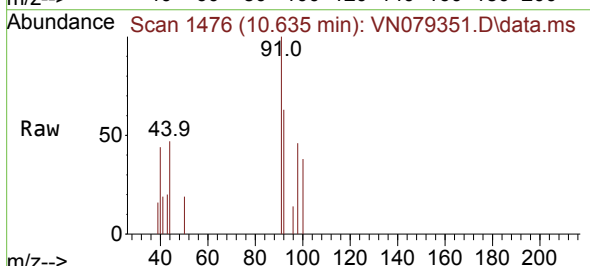


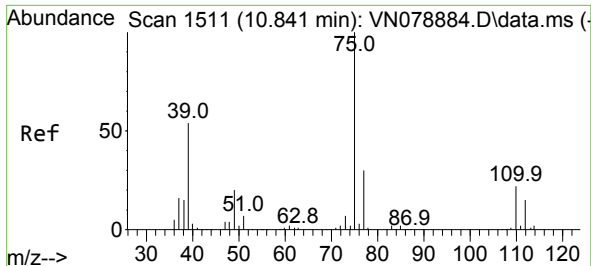
Tgt Ion: 43 Resp: 12607
Ion Ratio Lower Upper
43 100
58 20.7 36.6 54.8#



#52
Toluene
Concen: 0.202 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 92 Resp: 1111
Ion Ratio Lower Upper
92 100
91 178.8 137.4 206.0

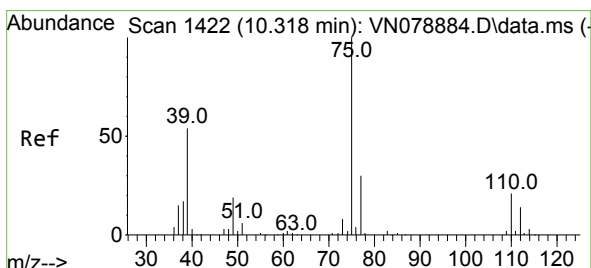
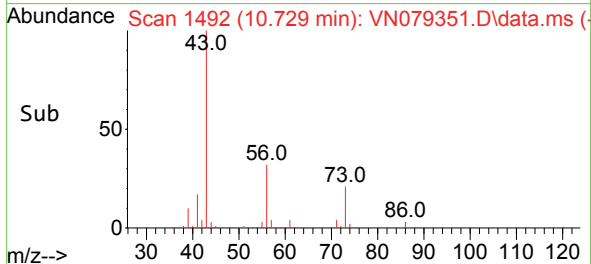
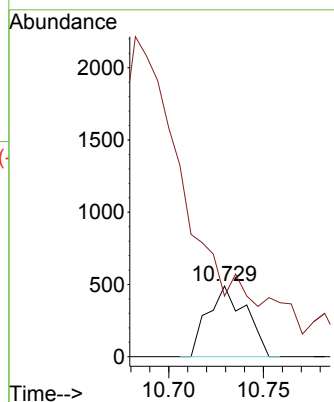
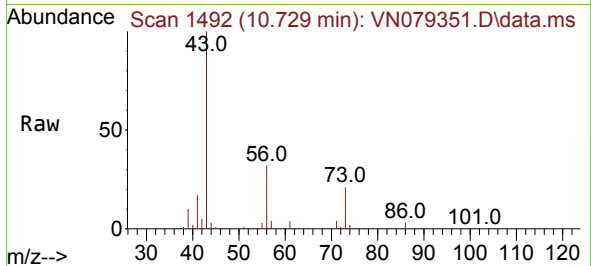




#53
 t-1,3-Dichloropropene
 Concen: 0.210 ug/l
 RT: 10.729 min Scan# 14
 Delta R.T. -0.112 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44

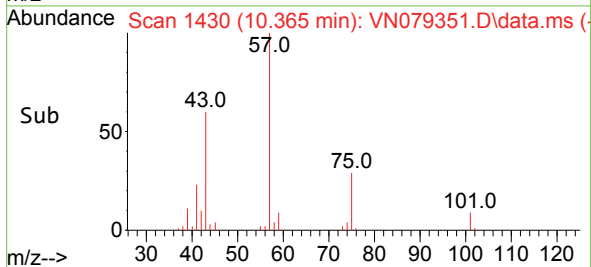
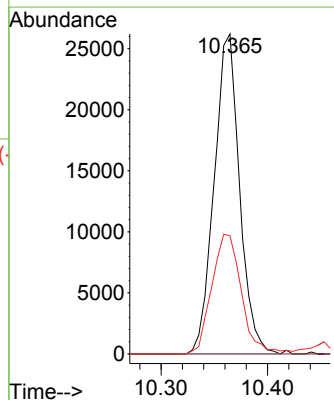
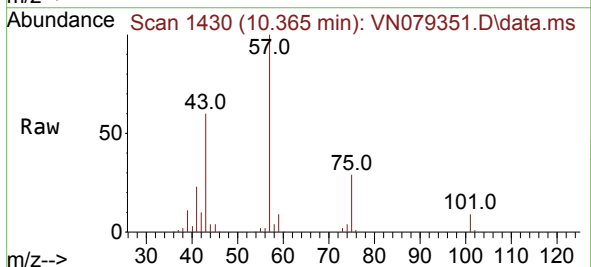
Instrument :
 MSVOA_N
 ClientSampleId :

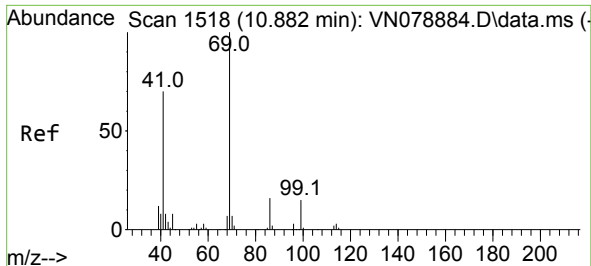
Tgt Ion: 75 Resp: 686
 Ion Ratio Lower Upper
 75 100
 77 9.4 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.427 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44

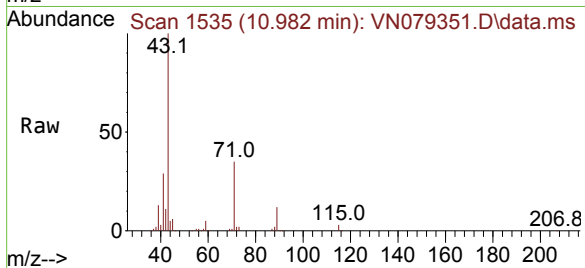
Tgt Ion: 75 Resp: 43384
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 37.0 31.6 47.4



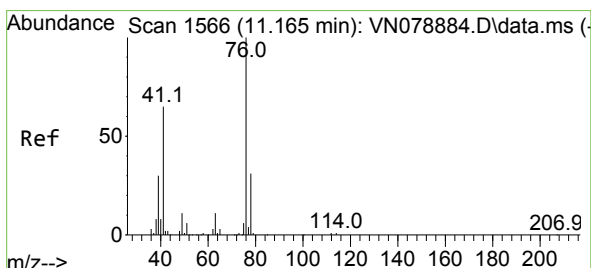
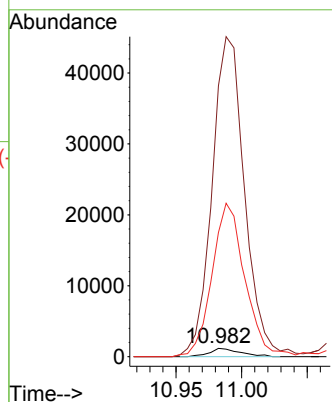
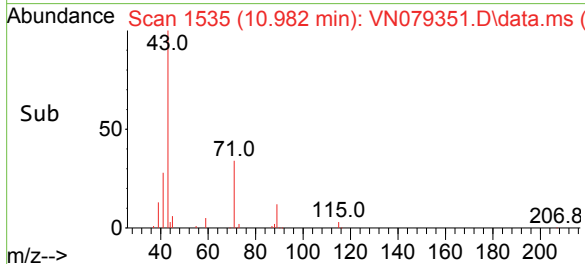


#56
Ethyl methacrylate
Concen: 0.635 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.105 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Instrument :
MSVOA_N
ClientSampleId :

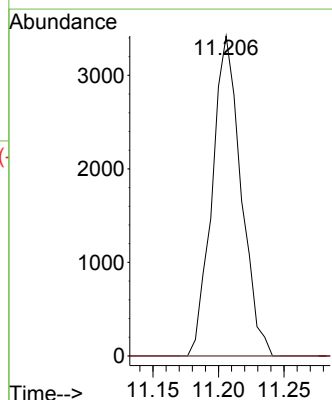
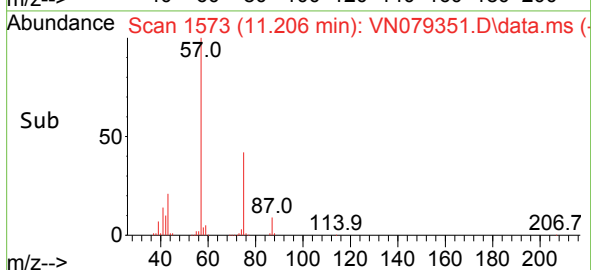
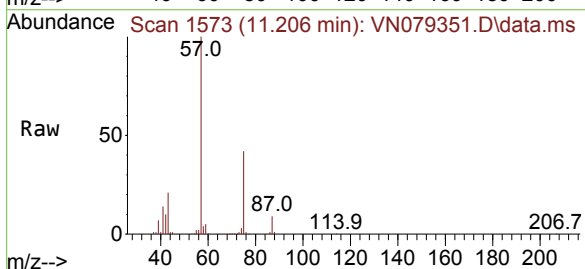


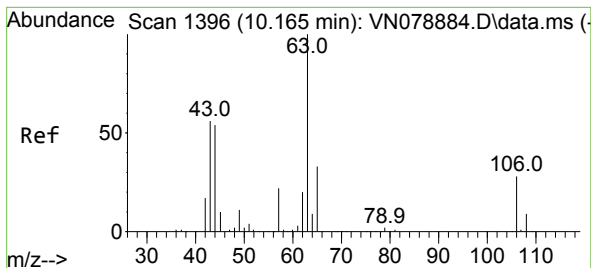
Tgt Ion: 69 Resp: 1938
Ion Ratio Lower Upper
69 100
41 4026.8 39.6 59.4#
39 1941.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.403 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 76 Resp: 5247
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

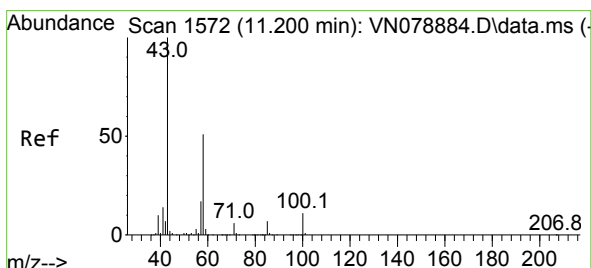
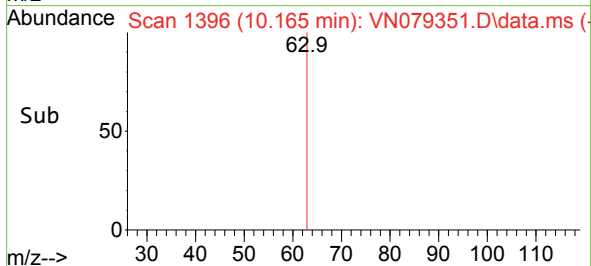
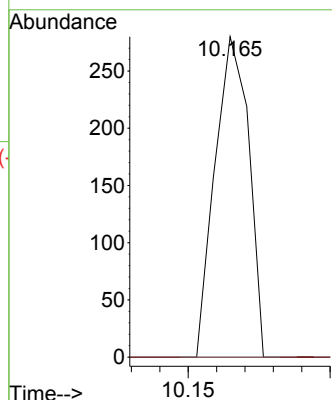
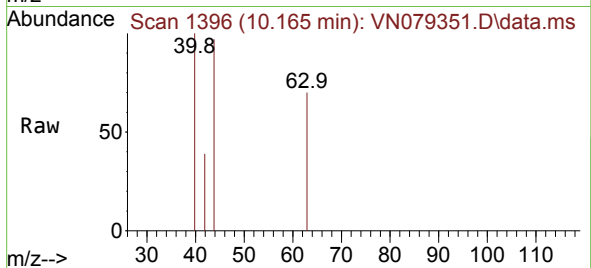




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.165 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

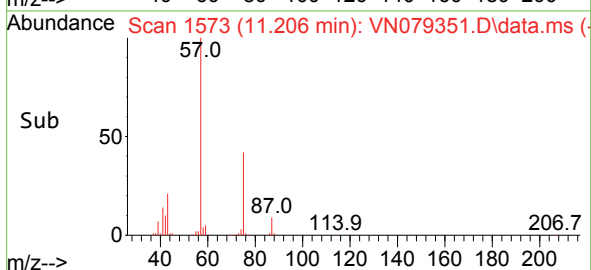
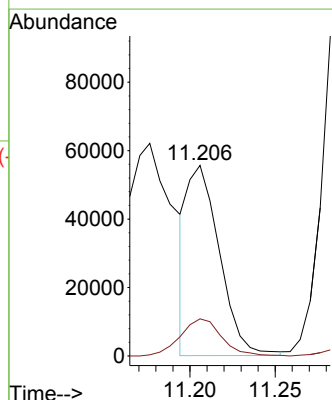
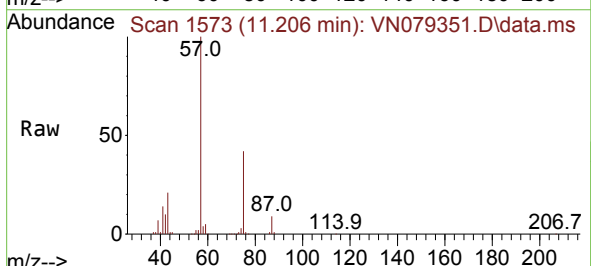
Instrument :
MSVOA_N
ClientSampleId :

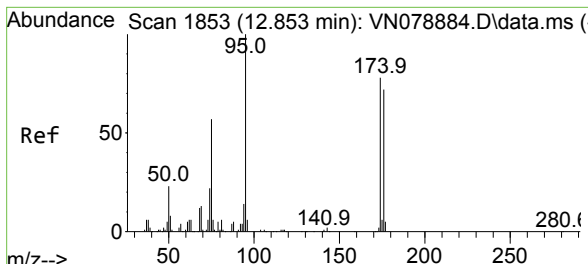
Tgt Ion: 63 Resp: 232
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 36.609 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

Tgt Ion: 43 Resp: 73409
Ion Ratio Lower Upper
43 100
58 25.0 31.7 95.1#

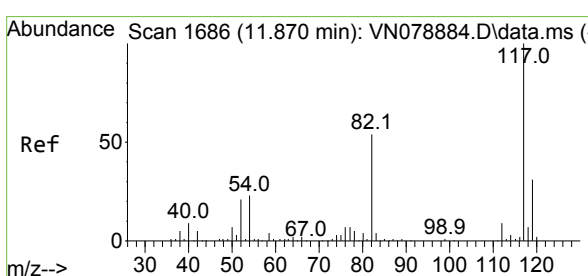
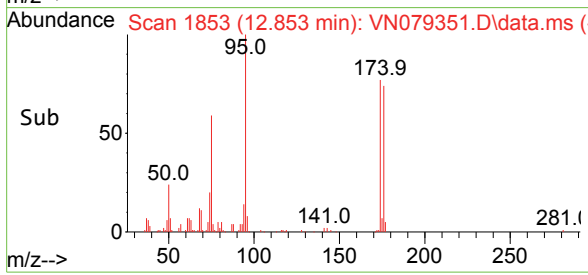
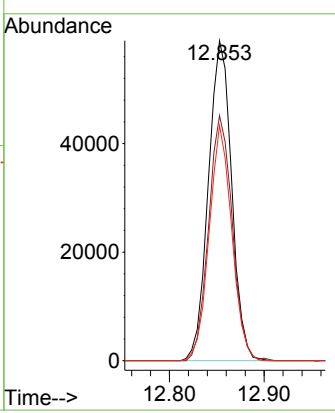
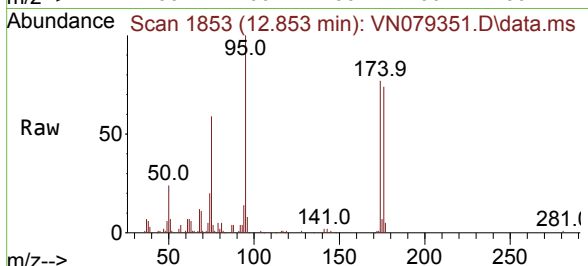




#62
 4-Bromofluorobenzene
 Concen: 45.115 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44

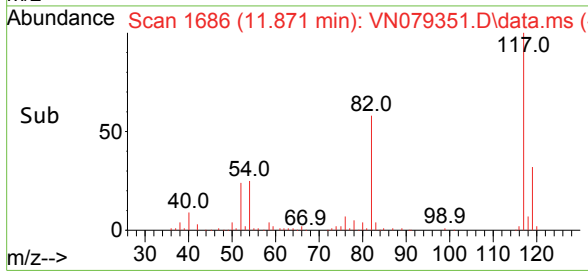
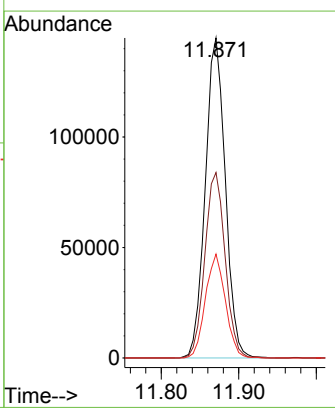
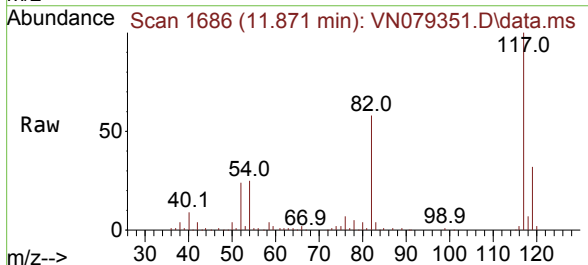
Instrument :
 MSVOA_N
 ClientSampleId :

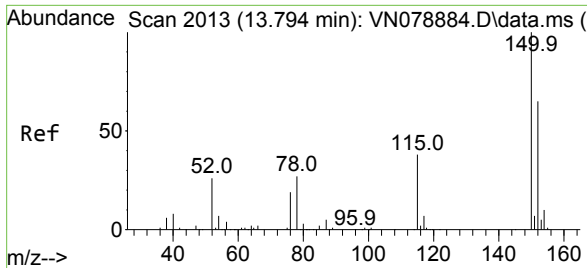
Tgt Ion:	95	Resp:	100460
Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	143.8
176	71.6	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44

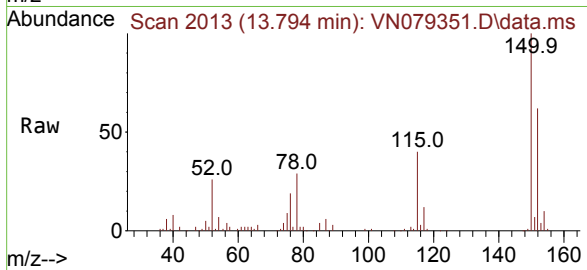
Tgt Ion:	117	Resp:	259889
Ion	Ratio	Lower	Upper
117	100		
82	57.9	44.0	66.0
119	32.4	25.6	38.4



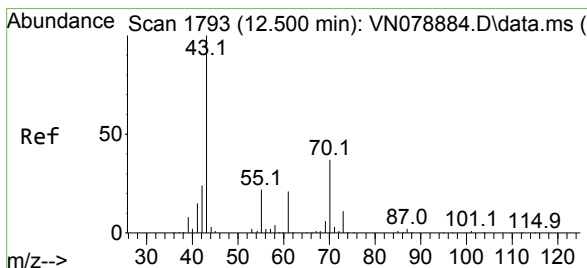
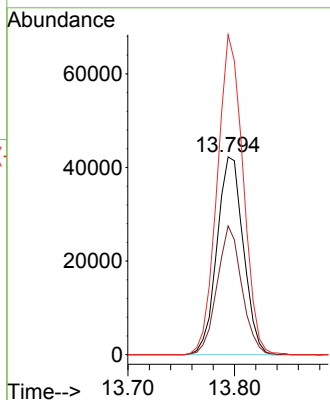
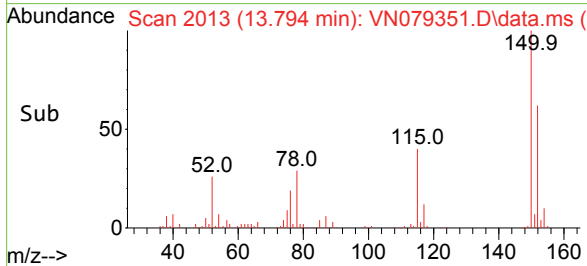


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44

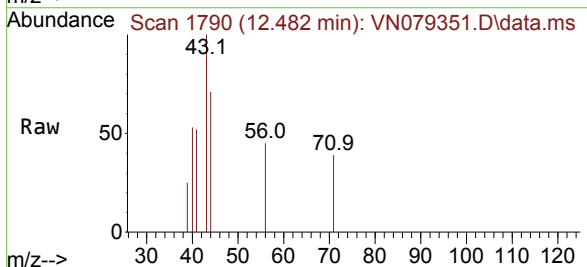
Instrument :
 MSVOA_N
 ClientSampleId :



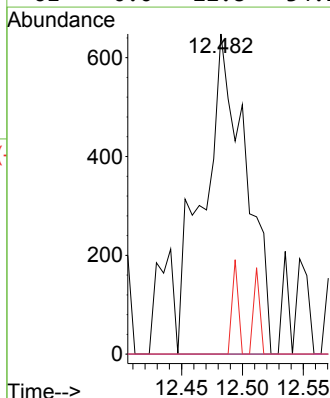
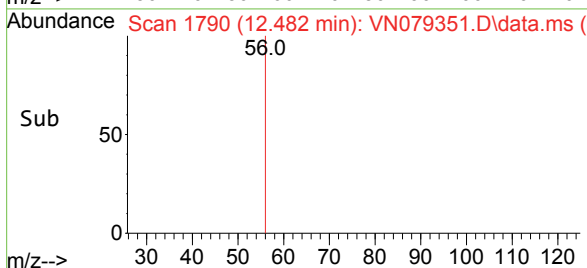
Tgt Ion:152 Resp: 72671
 Ion Ratio Lower Upper
 152 100
 115 61.0 32.3 96.8
 150 158.7 0.0 355.8

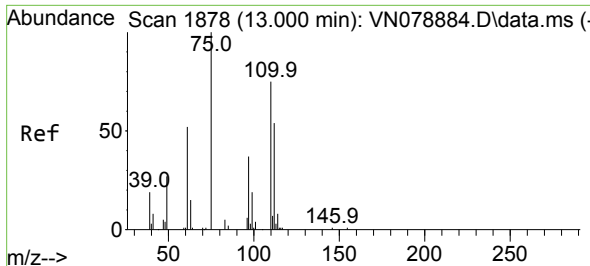


#74
 N-ethyl acetate
 Concen: 0.632 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.018 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44



Tgt Ion: 43 Resp: 1585
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 4.2 21.4 32.0#
 61 0.0 22.8 34.2#

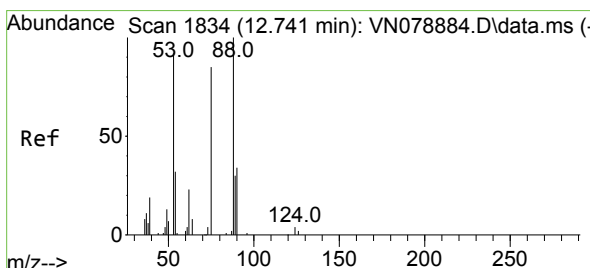
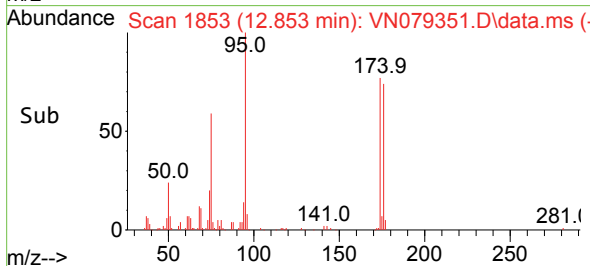
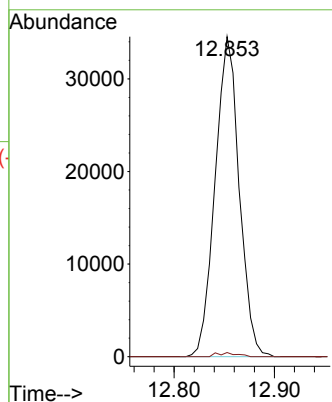
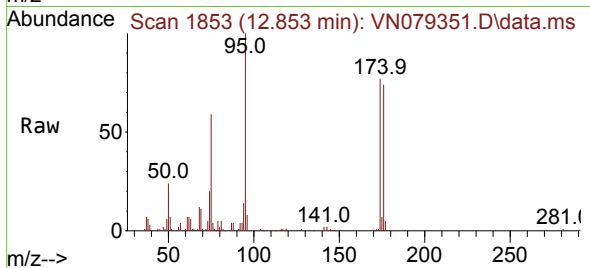




#76
1,2,3-Trichloropropane
Concen: 29.454 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

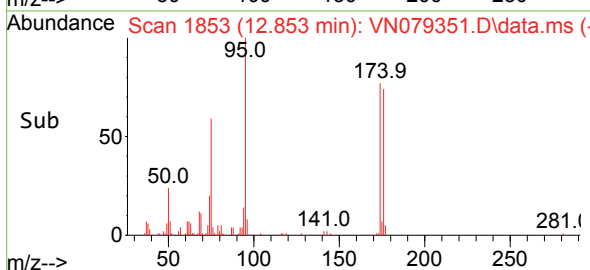
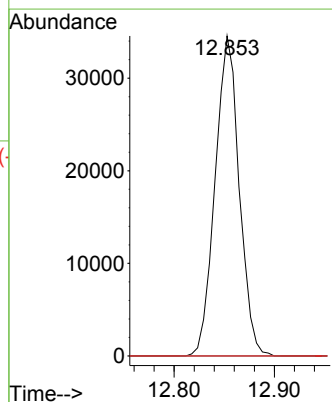
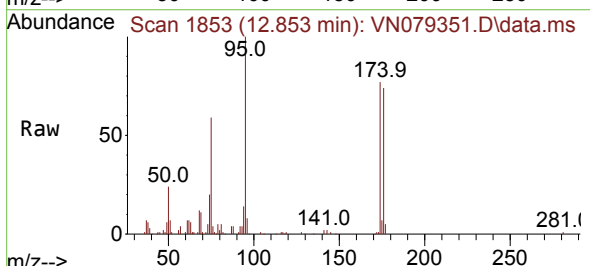
Instrument :
MSVOA_N
ClientSampleId :

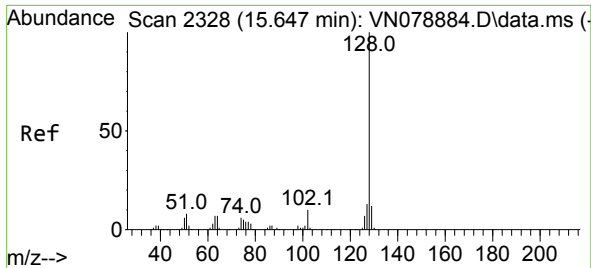
Tgt Ion: 75 Resp: 57688
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.975 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079351.D
Acq: 26 Sep 2023 13:44

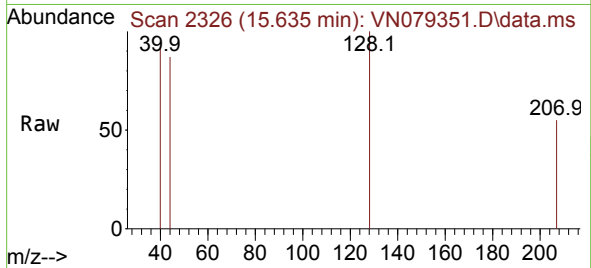
Tgt Ion: 75 Resp: 57688
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#95
 Naphthalene
 Concen: 0.208 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN079351.D
 Acq: 26 Sep 2023 13:44

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	603
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#

