

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081623\
 Data File : VN078904.D
 Acq On : 16 Aug 2023 15:41
 Operator : JC\MD
 Sample : 04006-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 E-1-EPH

Quant Time: Aug 17 01:17:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

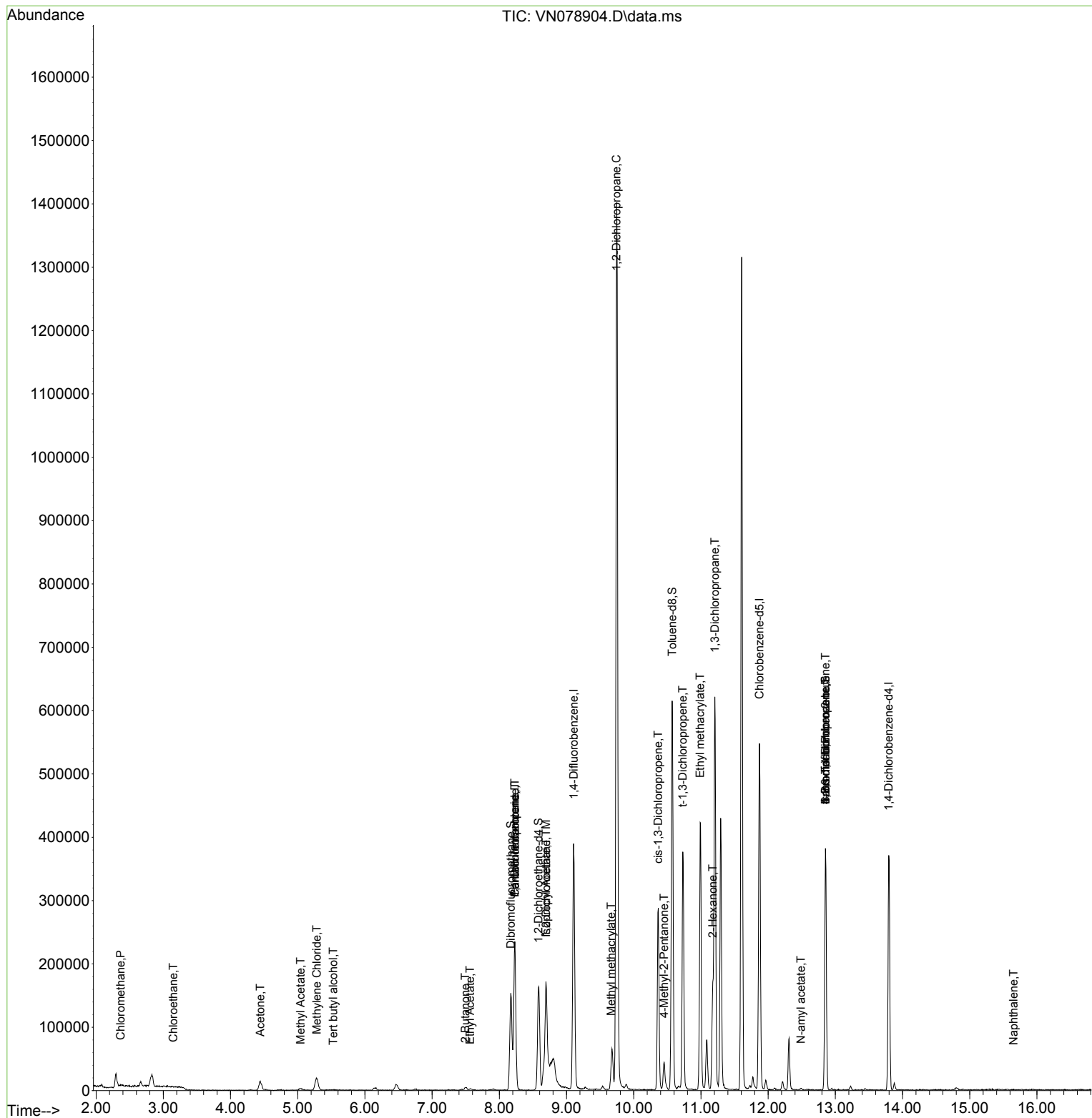
Internal Standards						
1) Pentafluorobenzene	8.230	168	159059	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	315857	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	310496	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	93292	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	134596	54.380	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.760%			
35) Dibromofluoromethane	8.171	113	106297	49.994	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.980%			
50) Toluene-d8	10.571	98	402620	50.999	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.000%			
62) 4-Bromofluorobenzene	12.853	95	123802	47.977	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.960%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1766	0.573	ug/l	90
6) Chloroethane	3.148	64	894	0.473	ug/l #	43
11) Tert butyl alcohol	5.530	59	124	0.299	ug/l #	72
16) Acetone	4.442	43	26734	26.177	ug/l	91
18) Methyl Acetate	5.042	43	5974	1.385	ug/l #	52
20) Methylene Chloride	5.283	84	14734	6.770	ug/l	88
25) 2-Butanone	7.494	43	8152	4.979	ug/l #	55
31) Cyclohexane	8.230	56	5133	Below Cal	#	56
36) 1,1-Dichloropropene	8.230	75	14897	4.658	ug/l #	49
37) Ethyl Acetate	7.565	43	4295	1.200	ug/l #	70
38) Carbon Tetrachloride	8.230	117	17364	5.418	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1100	0.311	ug/l #	73
43) Isopropyl Acetate	8.694	43	221315	34.991	ug/l #	71
45) 1,2-Dichloropropane	9.741	63	2035	0.809	ug/l #	45
48) Methyl methacrylate	9.665	41	4338	1.514	ug/l #	34
51) 4-Methyl-2-Pentanone	10.453	43	36358	9.692	ug/l #	83
53) t-1,3-Dichloropropene	10.730	75	893	0.244	ug/l #	58
54) cis-1,3-Dichloropropene	10.365	75	45567	11.445	ug/l #	68
56) Ethyl methacrylate	10.988	69	1960	0.543	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5995	1.440	ug/l #	42
59) 2-Hexanone	11.177	43	140792	51.817	ug/l #	19
71) Bromoform	12.853	173	1036	0.571	ug/l #	1
74) N-amyl acetate	12.488	43	1826	0.465	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	70535	31.378	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	70535	80.158	ug/l #	15
95) Naphthalene	15.653	128	62	2.588	ug/l #	70

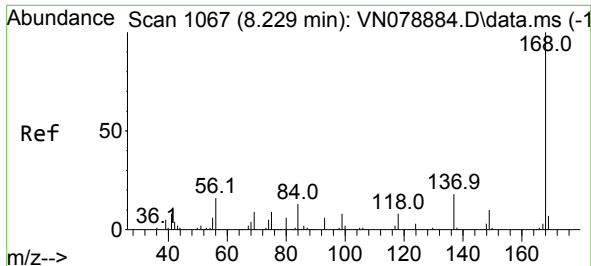
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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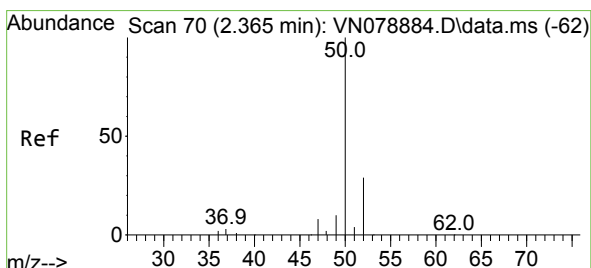
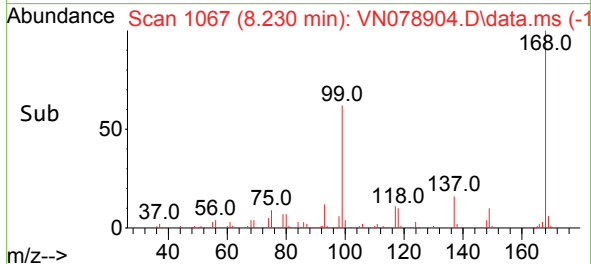
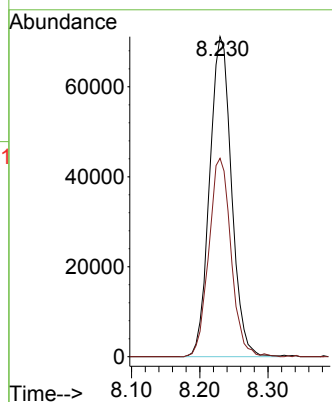
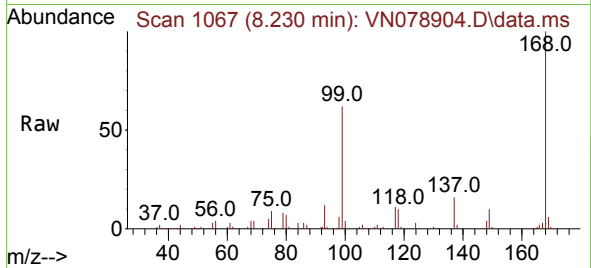




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

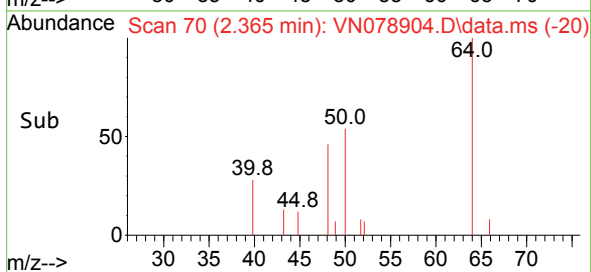
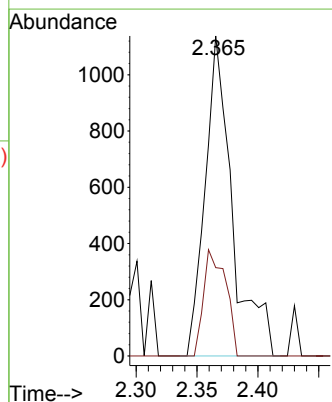
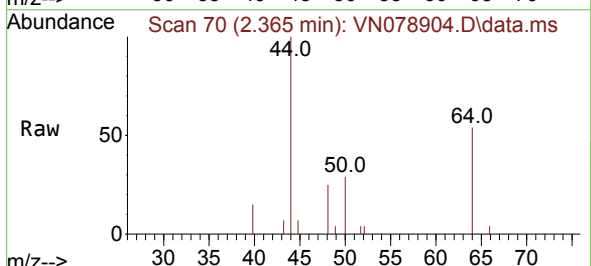
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

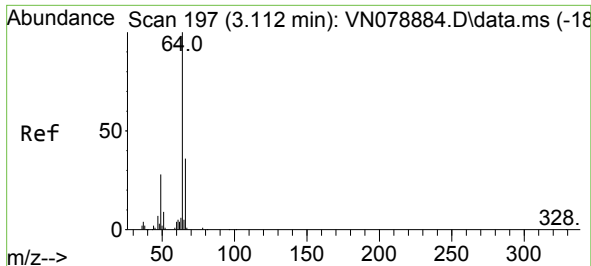
Tgt Ion:168 Resp: 159059
Ion Ratio Lower Upper
168 100
99 62.0 53.0 79.6



#3
Chloromethane
Concen: 0.573 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 50 Resp: 1766
Ion Ratio Lower Upper
50 100
52 27.6 26.5 39.7

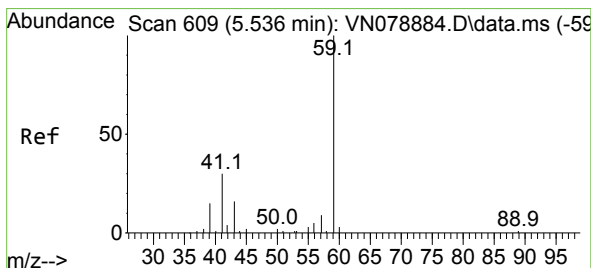
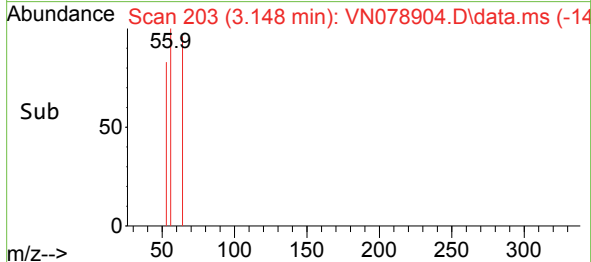
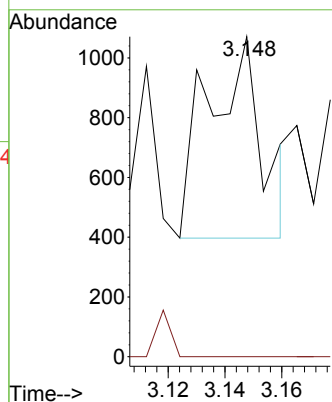
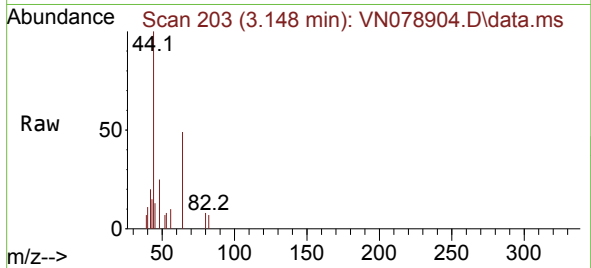




#6
Chloroethane
Concen: 0.473 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.030 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

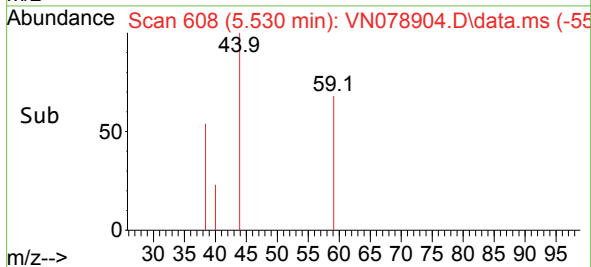
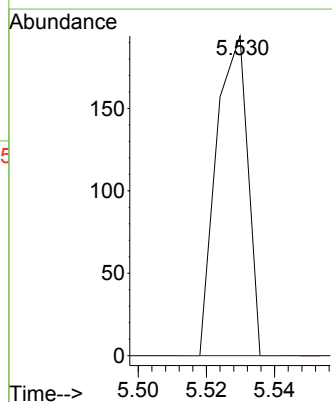
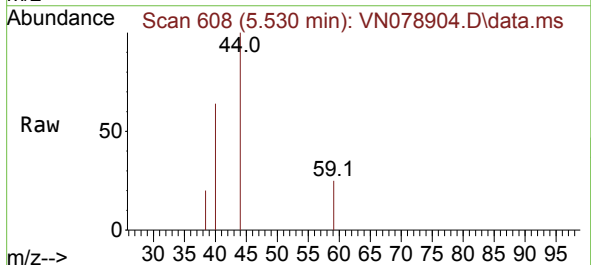
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

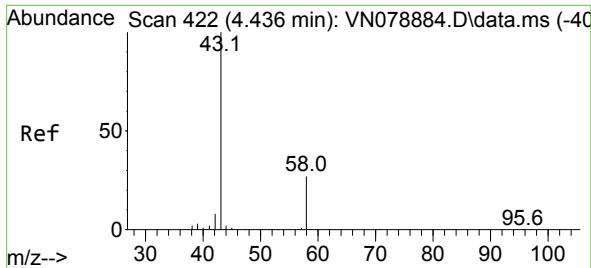
Tgt Ion: 64 Resp: 894
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.299 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 59 Resp: 124
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 26.177 ug/l

RT: 4.442 min Scan# 43

Delta R.T. -0.000 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :

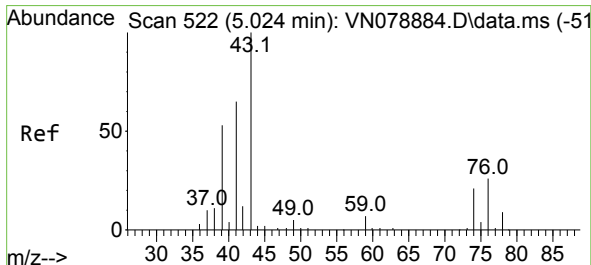
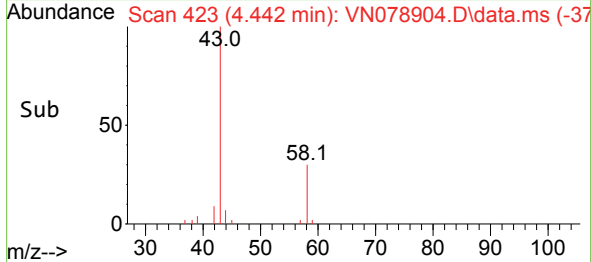
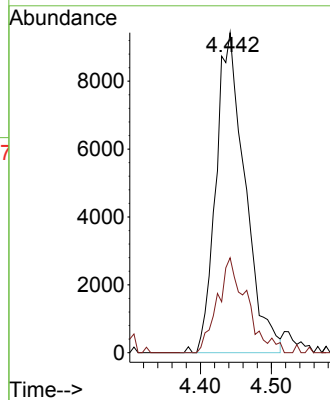
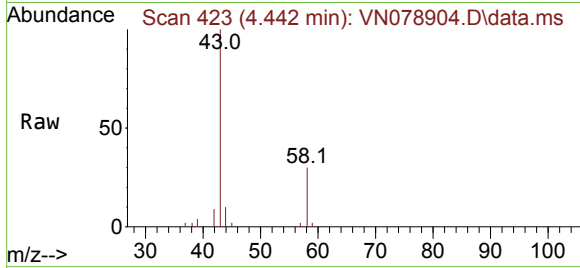
E-1-EPH

Tgt Ion: 43 Resp: 26734

Ion Ratio Lower Upper

43 100

58 29.6 28.0 42.0



#18

Methyl Acetate

Concen: 1.385 ug/l

RT: 5.042 min Scan# 525

Delta R.T. -0.000 min

Lab File: VN078904.D

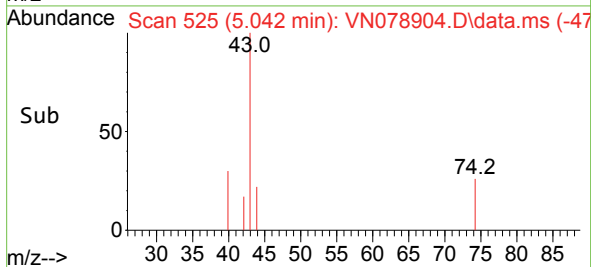
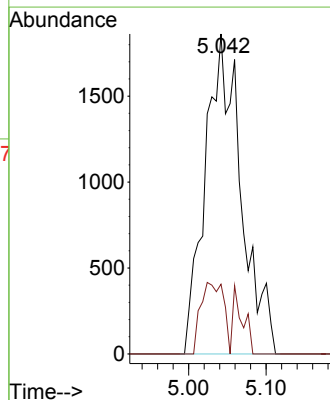
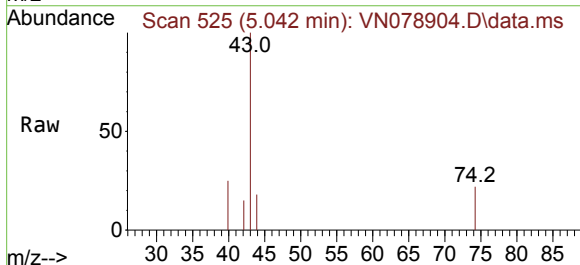
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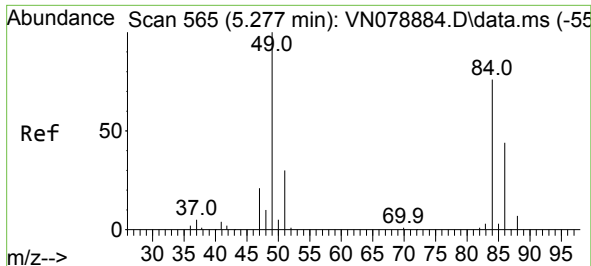
Tgt Ion: 43 Resp: 5974

Ion Ratio Lower Upper

43 100

74 5.9 26.2 39.4#

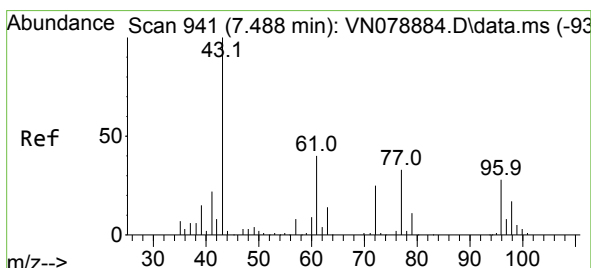
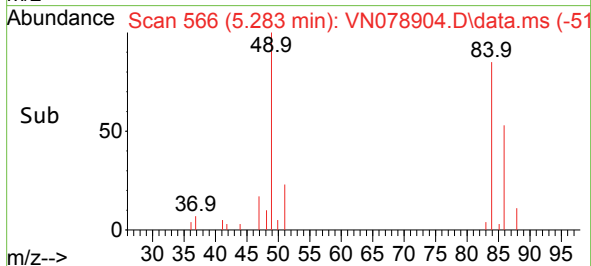
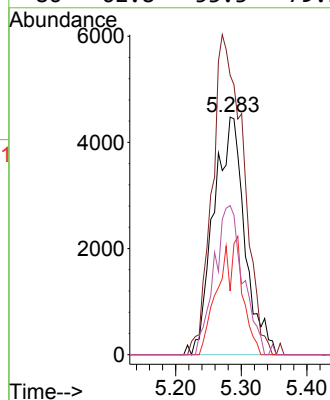
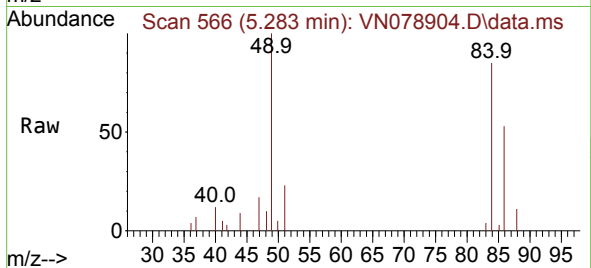




#20
Methylene Chloride
Concen: 6.770 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

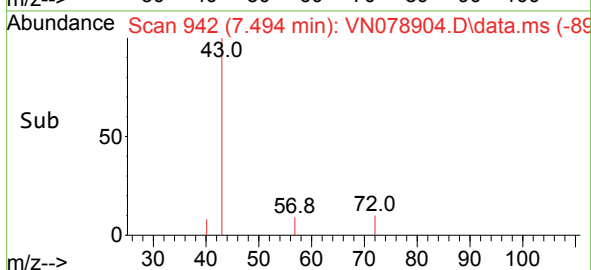
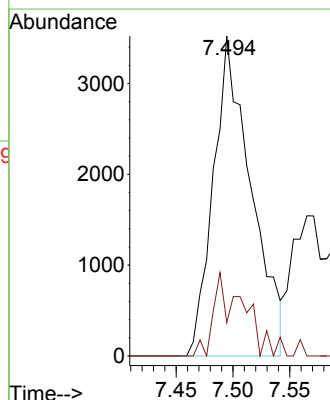
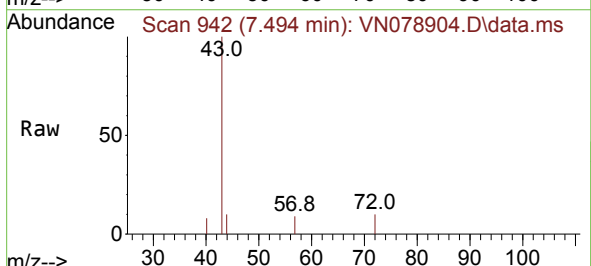
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

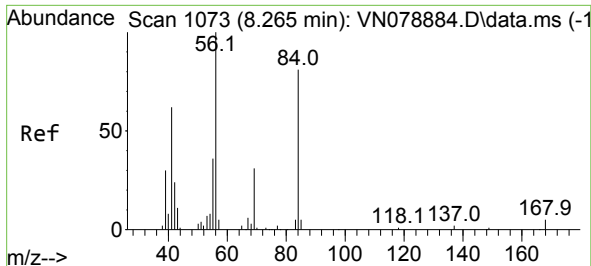
Tgt Ion: 84	Resp: 14734
Ion Ratio	Lower Upper
84 100	
49 117.6	79.7 119.5
51 26.8	25.2 37.8
86 62.8	53.3 79.9



#25
2-Butanone
Concen: 4.979 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

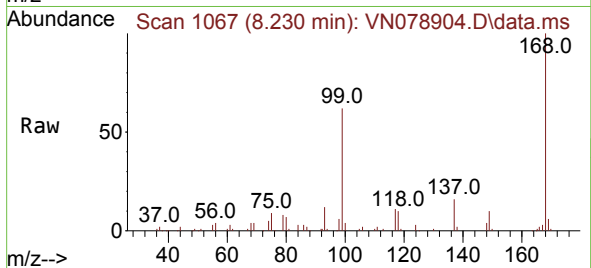
Tgt Ion: 43	Resp: 8152		
Ion Ratio	Lower	Upper	
43	100		
72	10.4	30.2	45.2#



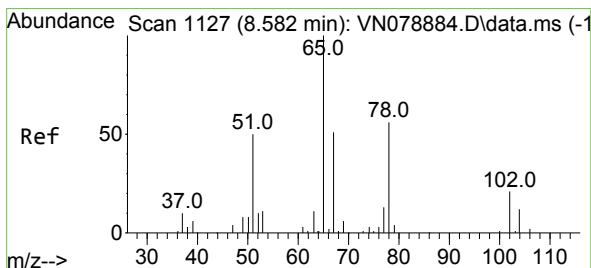
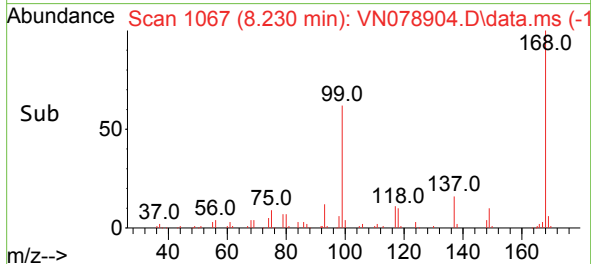
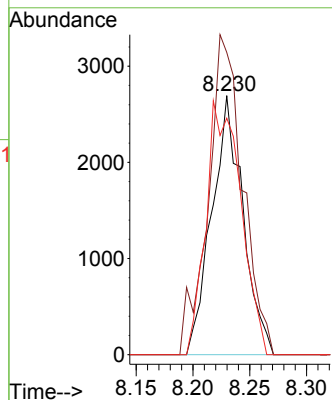


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Instrument :
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ClientSampleId :
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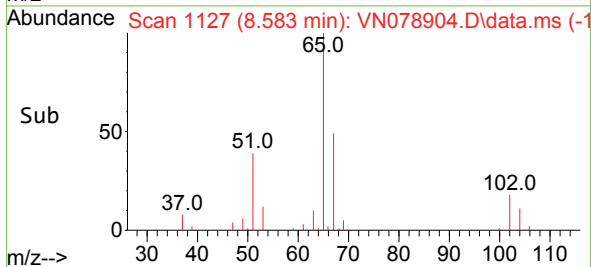
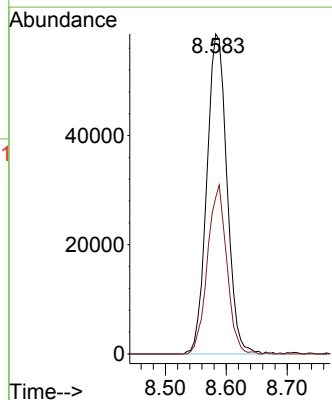
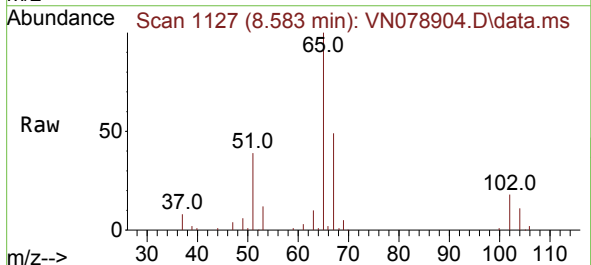


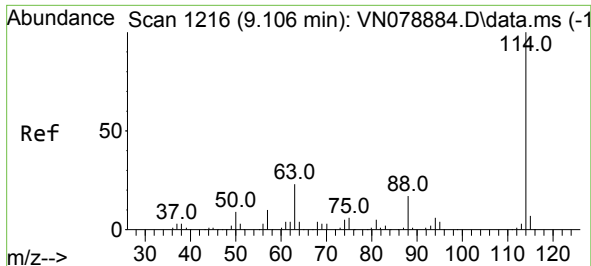
Tgt Ion: 56 Resp: 5133
Ion Ratio Lower Upper
56 100
69 116.7 26.8 40.2#
84 91.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 54.380 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 65 Resp: 134596
Ion Ratio Lower Upper
65 100
67 50.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :

E-1-EPH

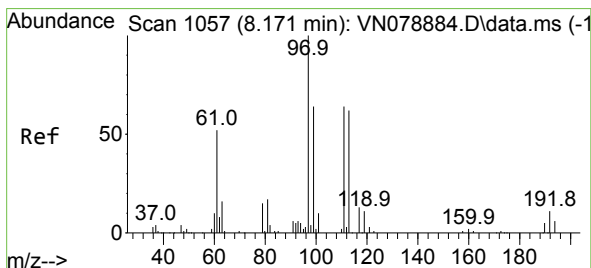
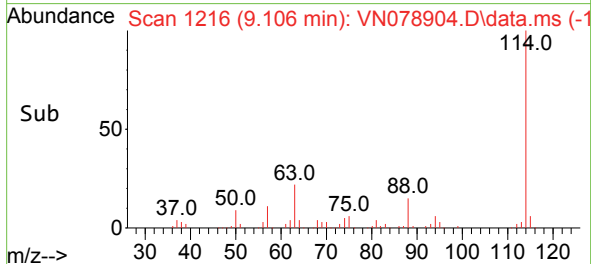
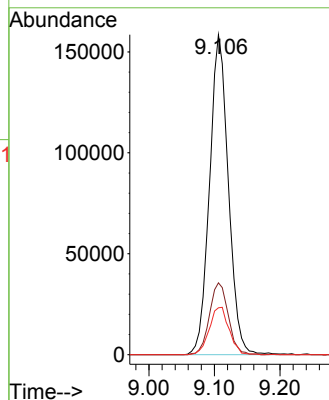
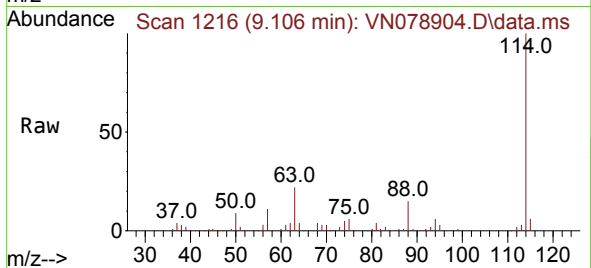
Tgt Ion:114 Resp: 315857

Ion Ratio Lower Upper

114 100

63 22.4 0.0 36.4

88 14.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.994 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

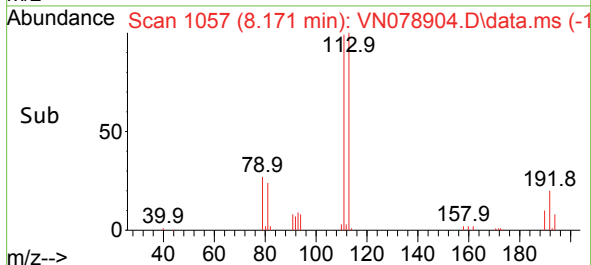
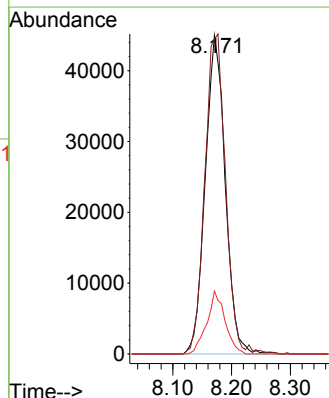
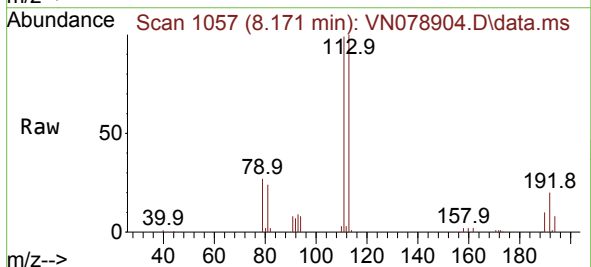
Tgt Ion:113 Resp: 106297

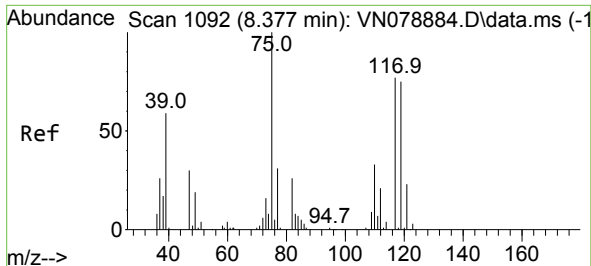
Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

192 18.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.658 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN078904.D

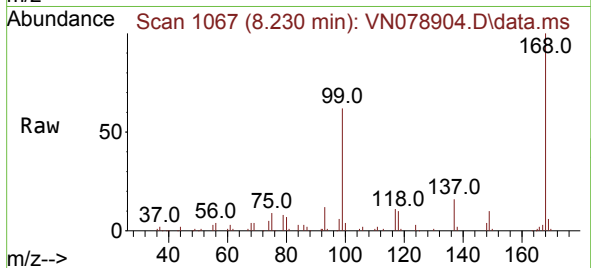
Acq: 16 Aug 2023 15:41

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E-1-EPH



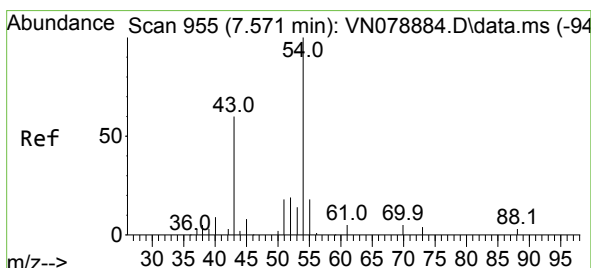
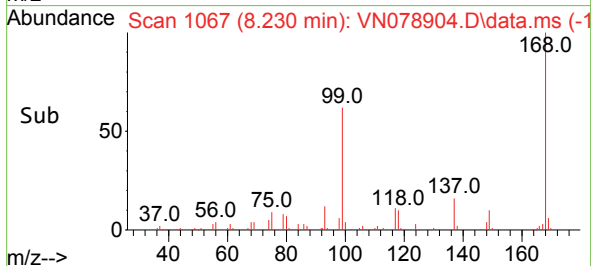
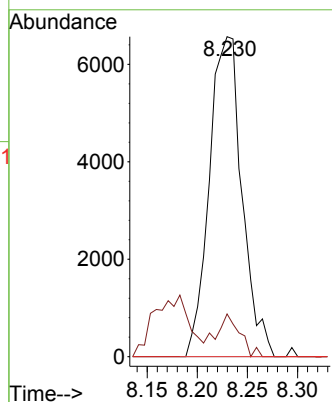
Tgt Ion: 75 Resp: 14897

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.200 ug/l

RT: 7.565 min Scan# 954

Delta R.T. -0.006 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

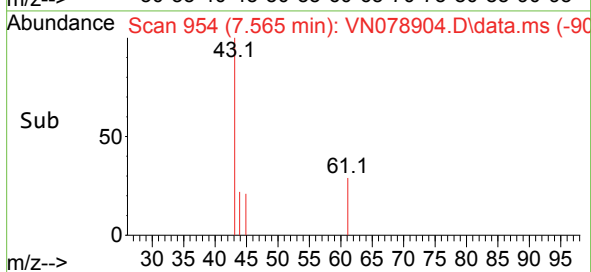
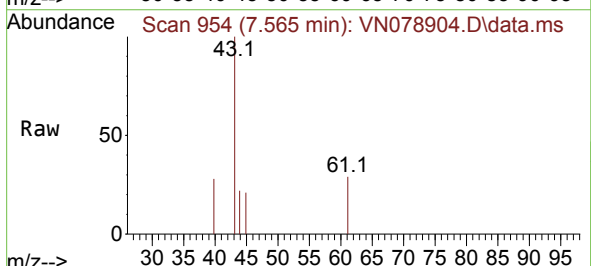
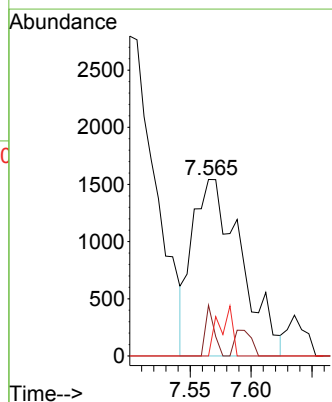
Tgt Ion: 43 Resp: 4295

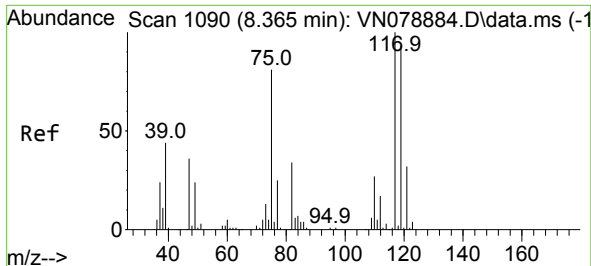
Ion Ratio Lower Upper

43 100

61 5.1 13.2 19.8#

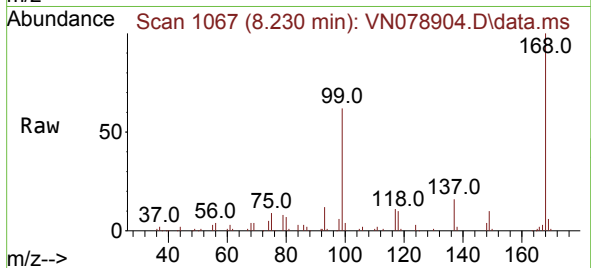
70 0.0 11.3 16.9#



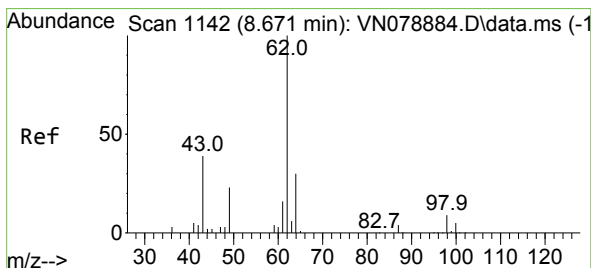
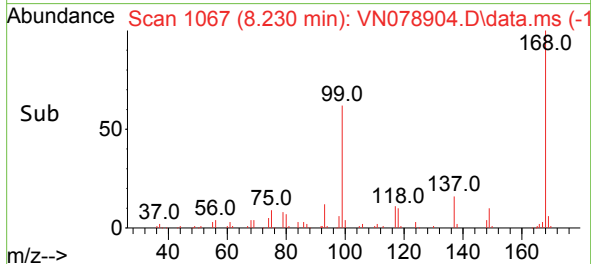
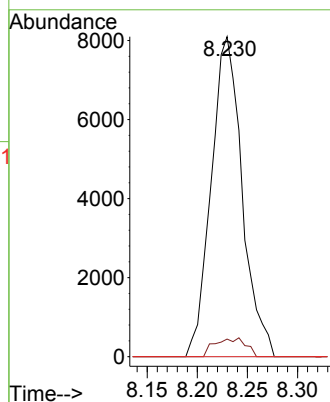


#38
Carbon Tetrachloride
Concen: 5.418 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

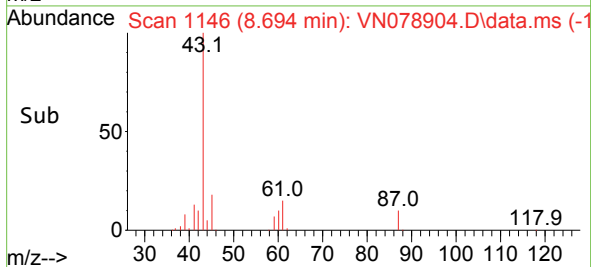
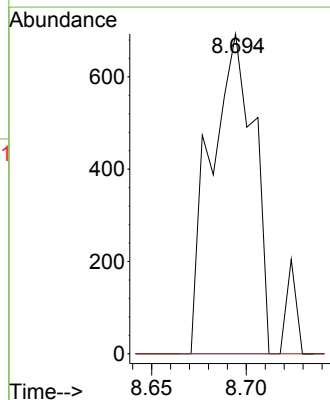
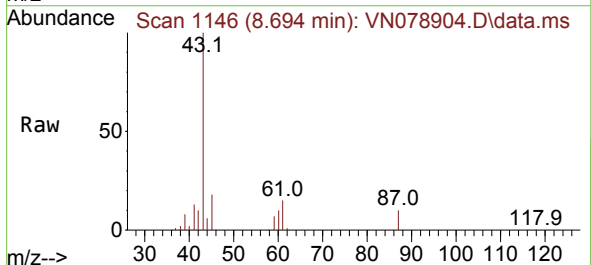


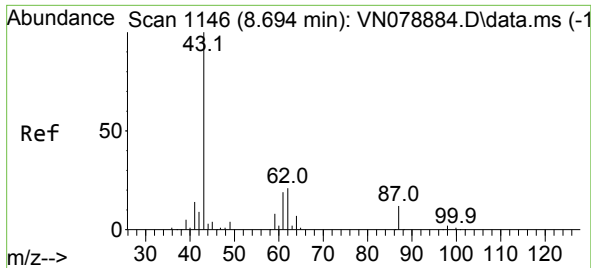
Tgt Ion:117 Resp: 17364
Ion Ratio Lower Upper
117 100
119 5.5 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.311 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.017 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 62 Resp: 1100
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

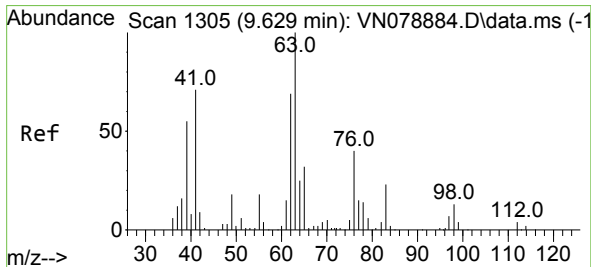
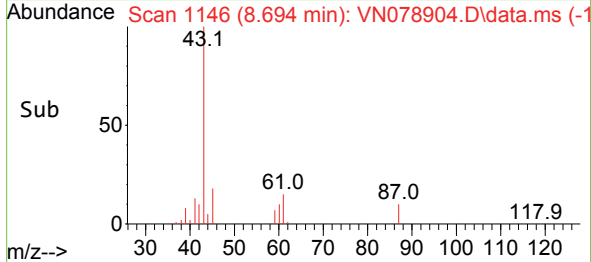
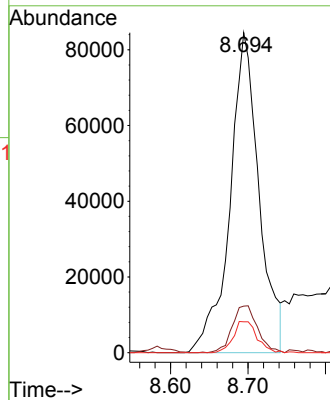
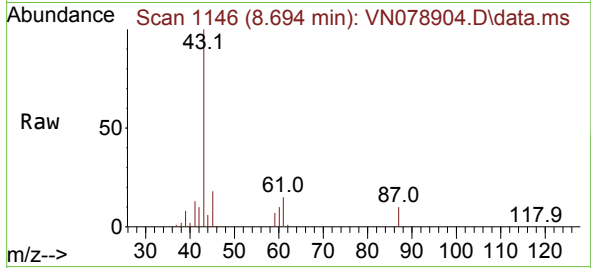




#43
Isopropyl Acetate
Concen: 34.991 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

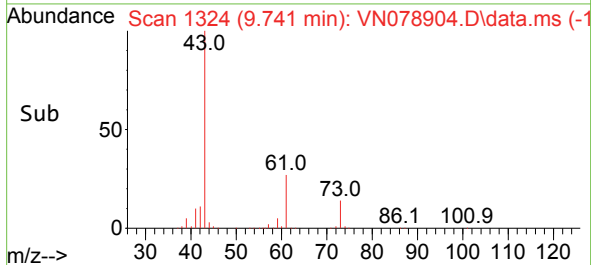
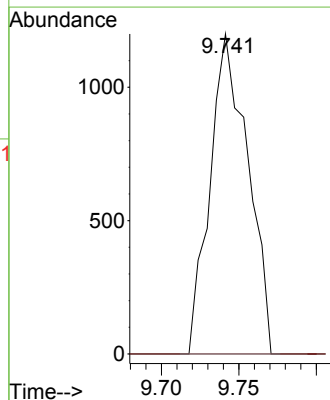
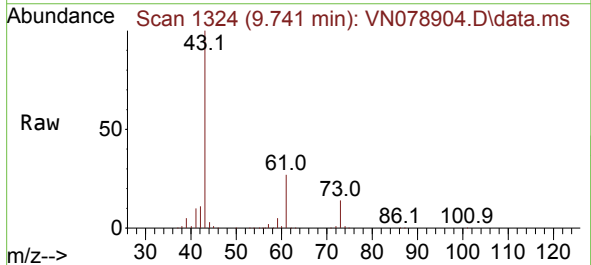
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

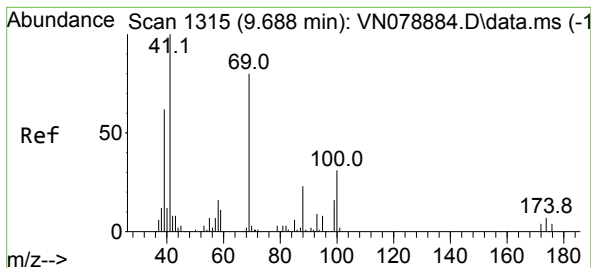
Tgt Ion: 43 Resp: 221315
Ion Ratio Lower Upper
43 100
61 12.7 24.7 37.1#
87 8.0 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.809 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.117 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 63 Resp: 2035
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.514 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.023 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :

E-1-EPH

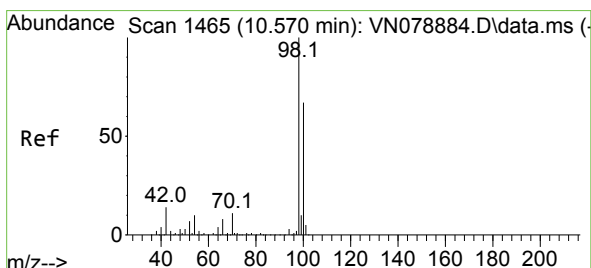
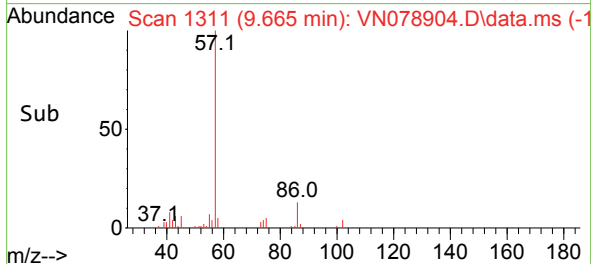
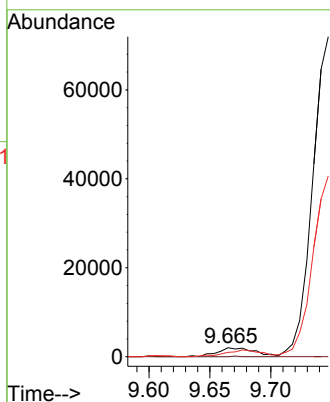
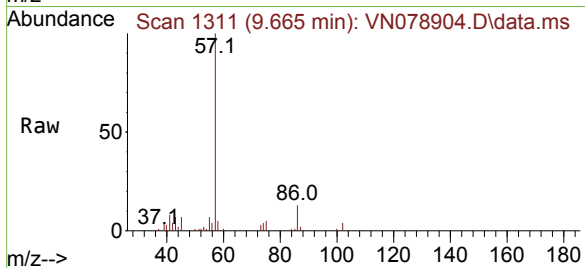
Tgt Ion: 41 Resp: 4338

Ion Ratio Lower Upper

41 100

69 1.3 90.4 135.6#

39 70.5 54.6 81.8



#50

Toluene-d8

Concen: 50.999 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078904.D

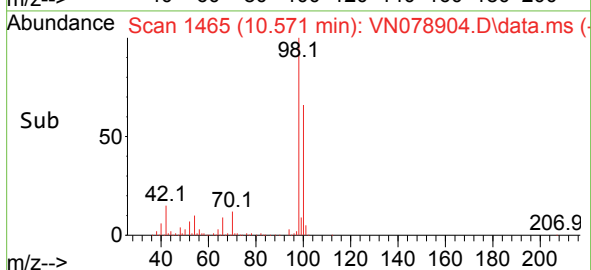
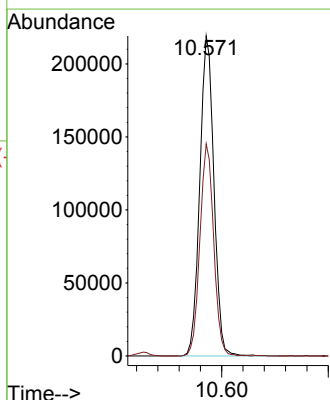
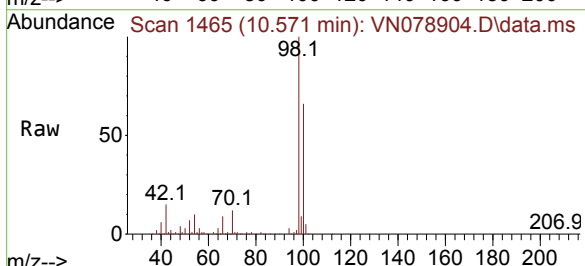
Acq: 16 Aug 2023 15:41

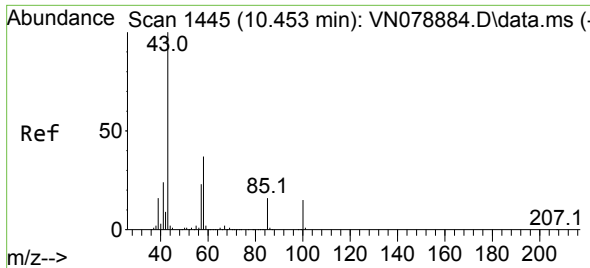
Tgt Ion: 98 Resp: 402620

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0

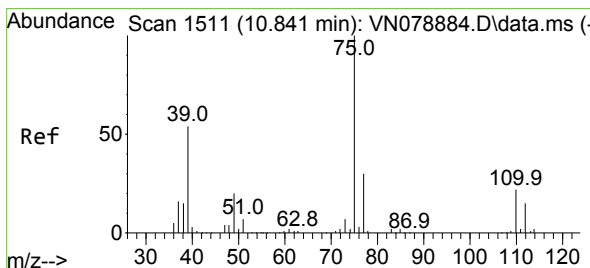
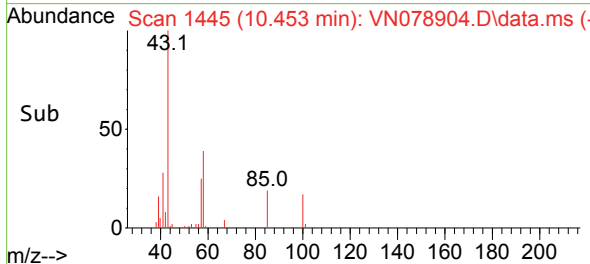
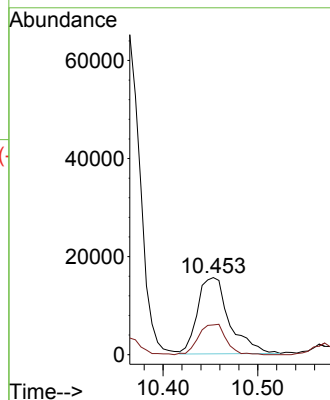
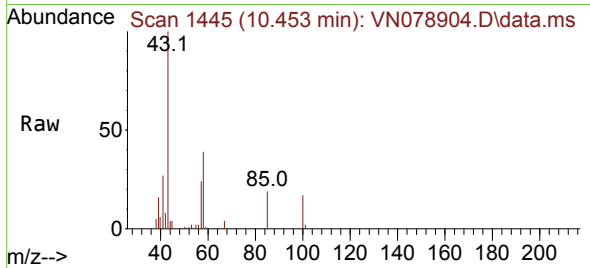




#51
4-Methyl-2-Pentanone
Concen: 9.692 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

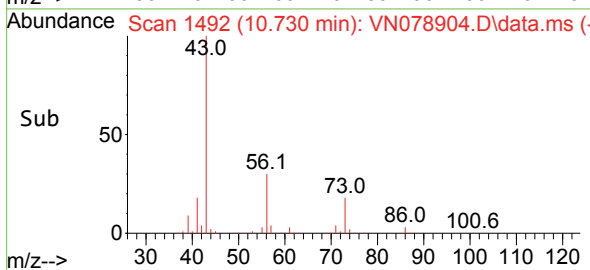
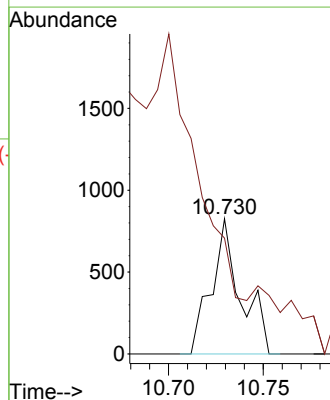
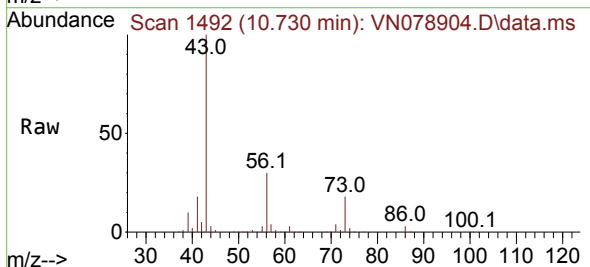
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

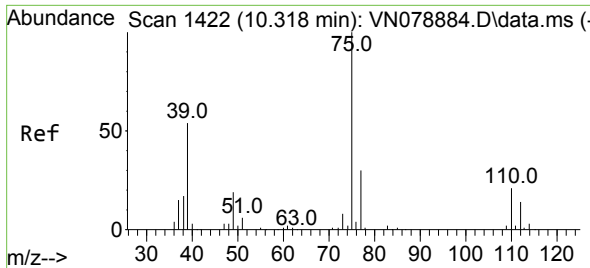
Tgt Ion: 43 Resp: 36358
Ion Ratio Lower Upper
43 100
58 34.4 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.244 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.111 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 75 Resp: 893
Ion Ratio Lower Upper
75 100
77 55.1 25.4 38.0#

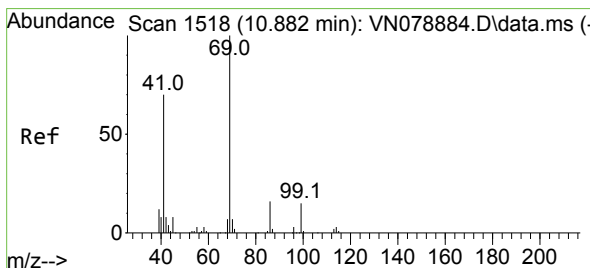
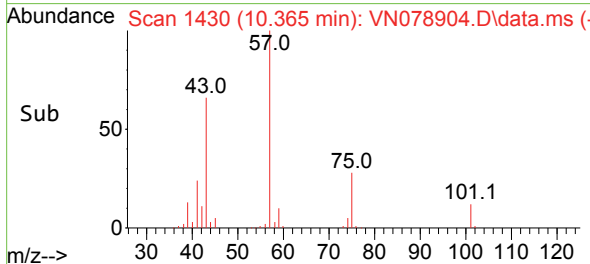
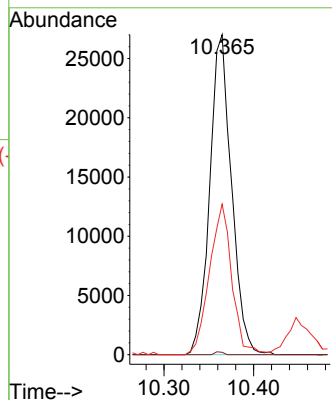
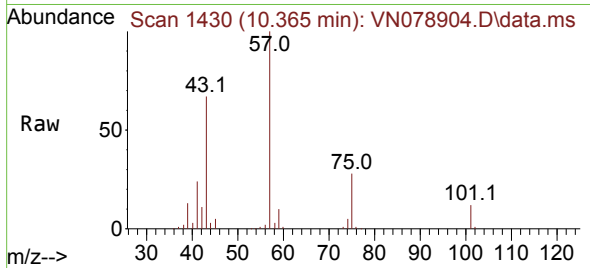




#54
 cis-1,3-Dichloropropene
 Concen: 11.445 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078904.D
 Acq: 16 Aug 2023 15:41

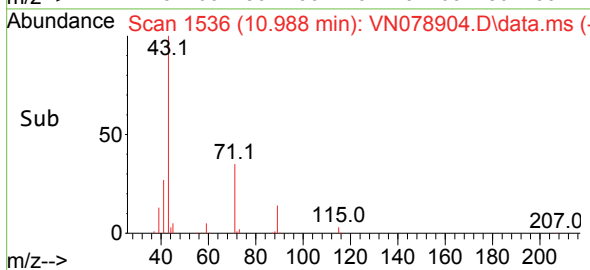
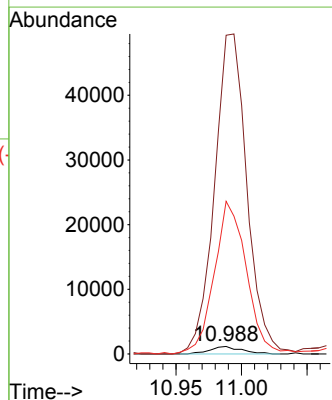
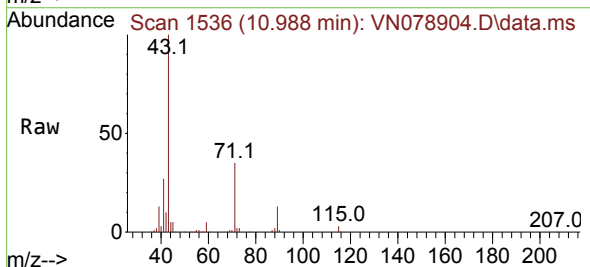
Instrument :
 MSVOA_N
 ClientSampleId :
 E-1-EPH

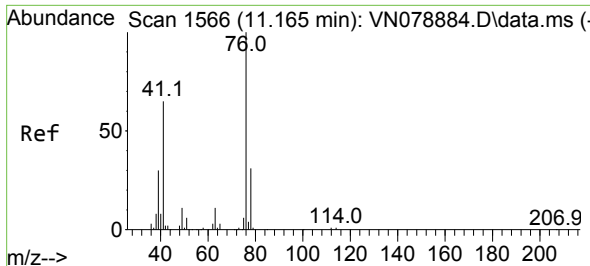
Tgt Ion: 75 Resp: 45567
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 47.1 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.543 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN078904.D
 Acq: 16 Aug 2023 15:41

Tgt Ion: 69 Resp: 1960
 Ion Ratio Lower Upper
 69 100
 41 4341.7 39.6 59.4#
 39 2056.2 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.440 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :

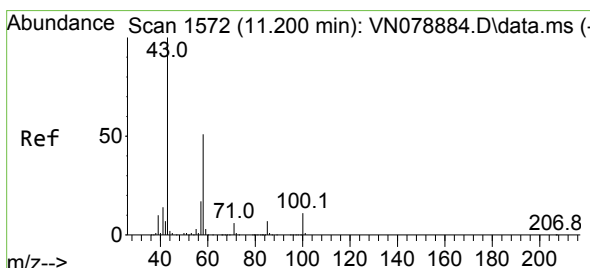
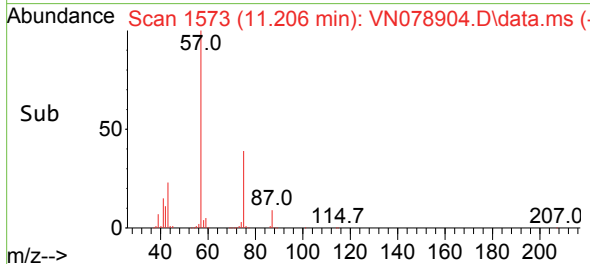
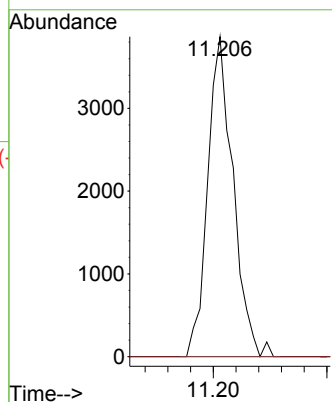
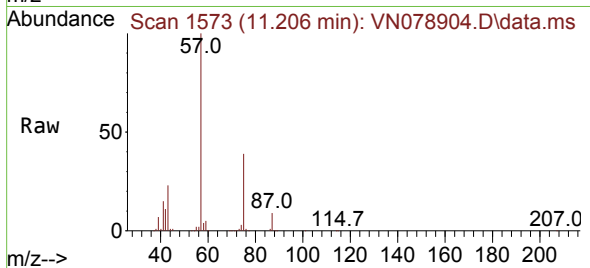
E-1-EPH

Tgt Ion: 76 Resp: 5995

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 51.817 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078904.D

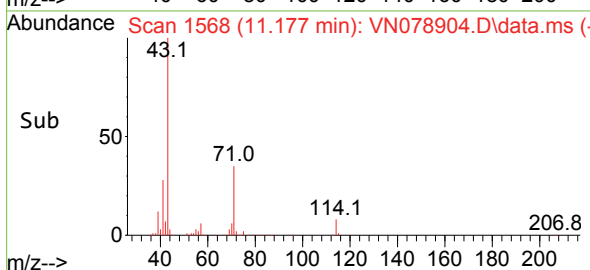
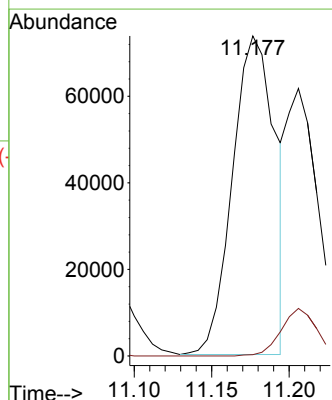
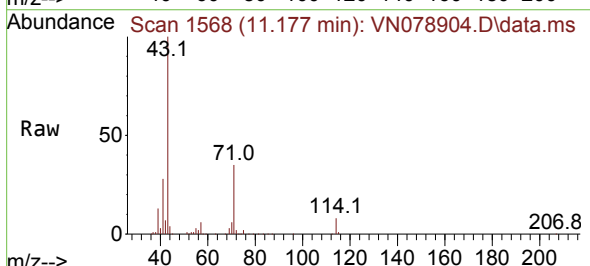
Acq: 16 Aug 2023 15:41

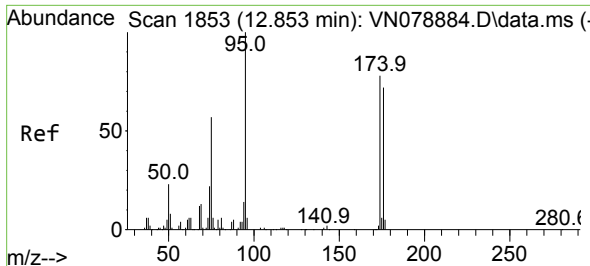
Tgt Ion: 43 Resp: 140792

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

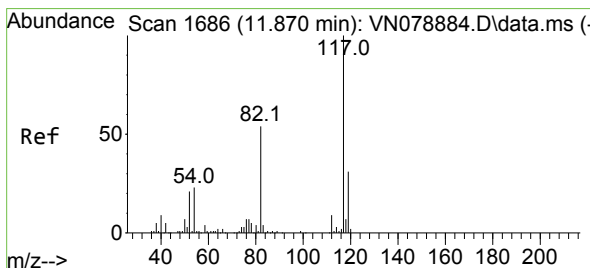
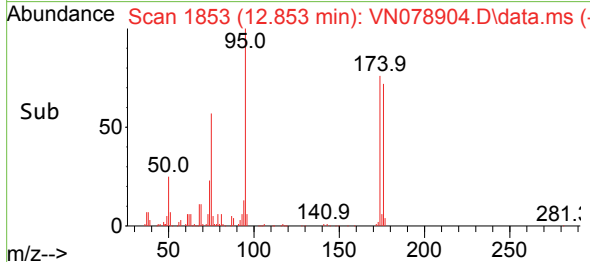
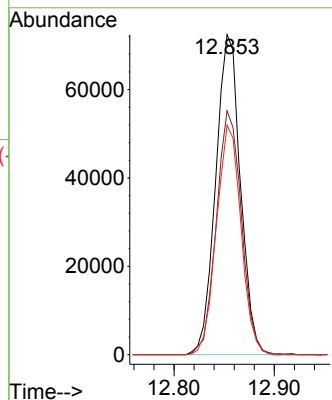
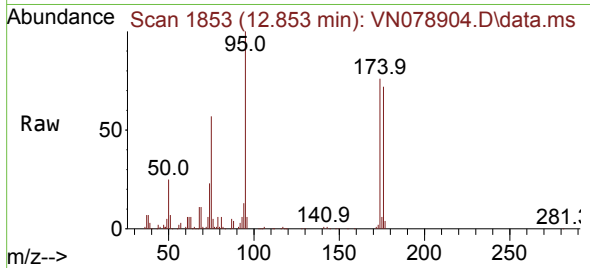




#62
4-Bromofluorobenzene
Concen: 47.977 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

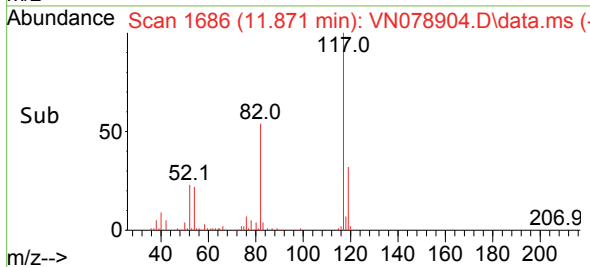
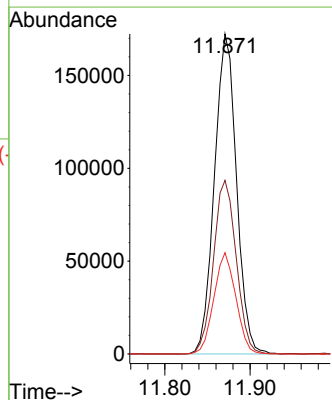
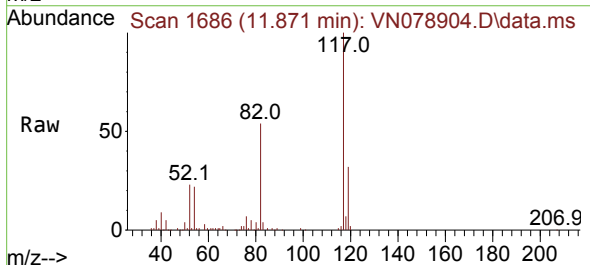
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

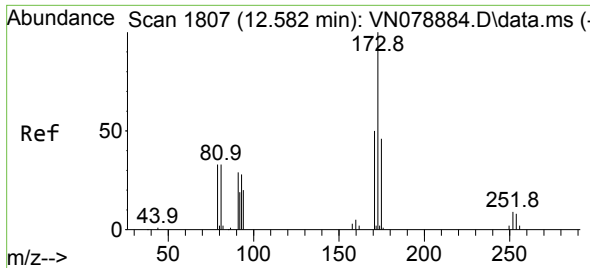
Tgt Ion: 95 Resp: 123802
Ion Ratio Lower Upper
95 100
174 77.4 0.0 143.8
176 71.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 117 Resp: 310496
Ion Ratio Lower Upper
117 100
82 54.2 44.0 66.0
119 31.7 25.6 38.4

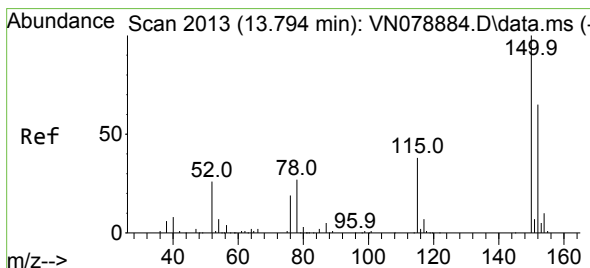
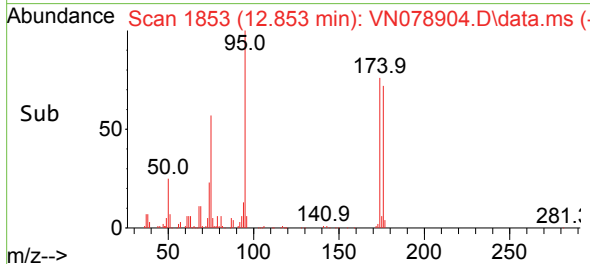
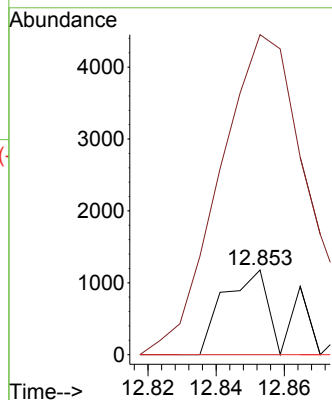
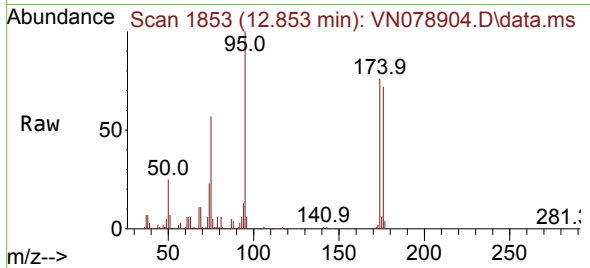




#71
Bromoform
Concen: 0.571 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.271 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

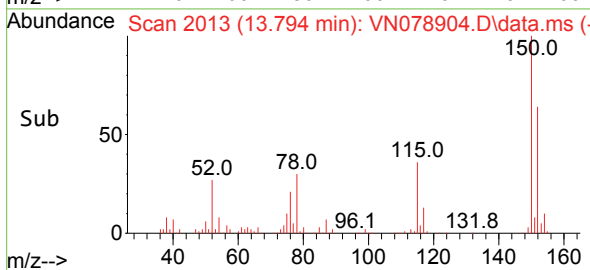
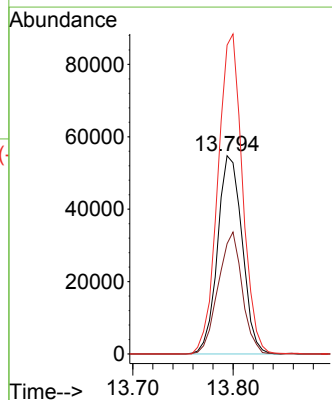
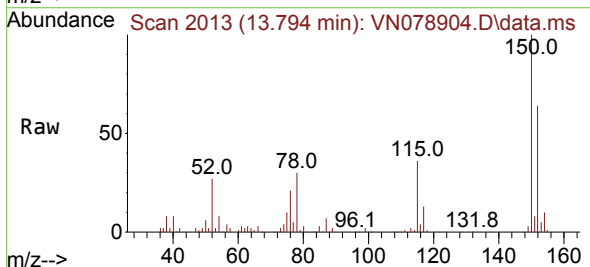
Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

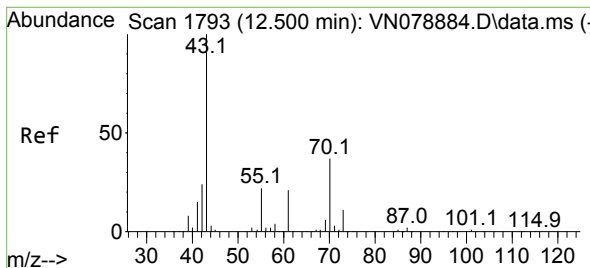
Tgt Ion:173 Resp: 1036
Ion Ratio Lower Upper
173 100
175 576.5 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion:152 Resp: 93292
Ion Ratio Lower Upper
152 100
115 59.9 32.3 96.8
150 161.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.465 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN078904.D

Acq: 16 Aug 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :

E-1-EPH

Tgt Ion: 43 Resp: 1826

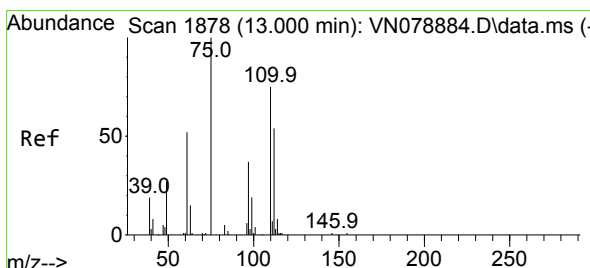
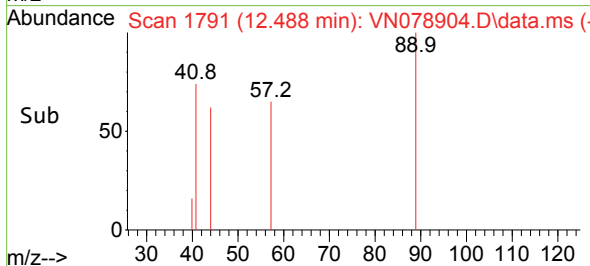
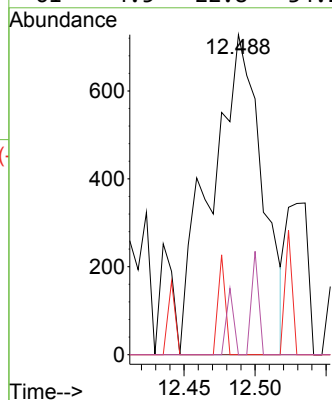
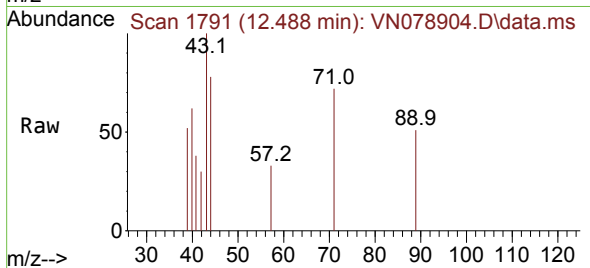
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 4.5 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 31.378 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078904.D

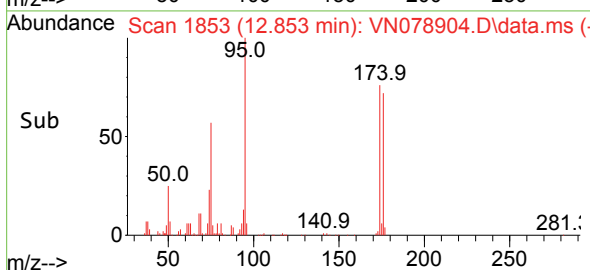
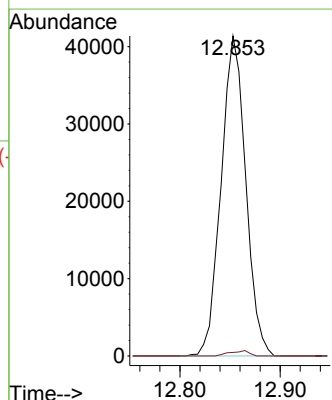
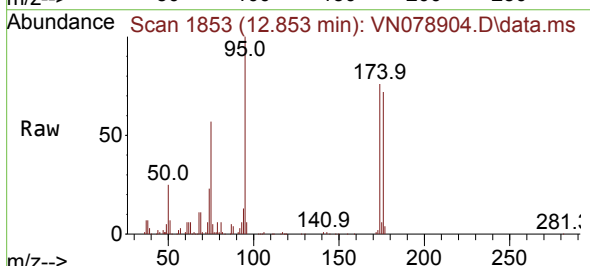
Acq: 16 Aug 2023 15:41

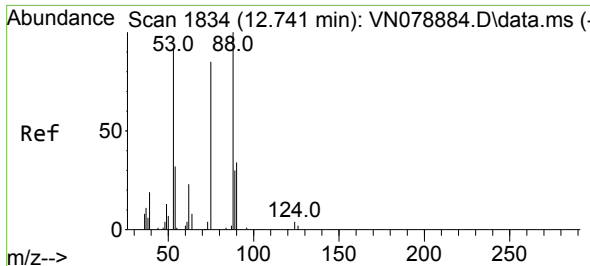
Tgt Ion: 75 Resp: 70535

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#

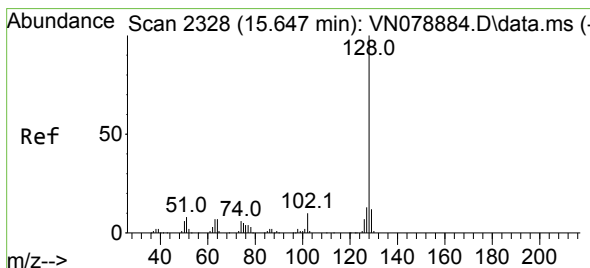
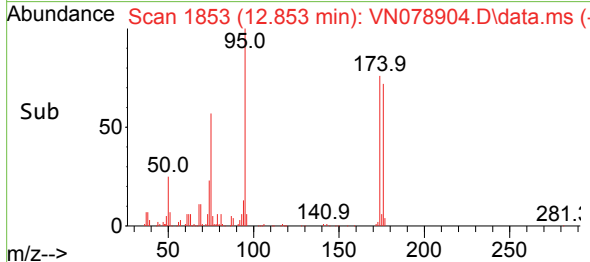
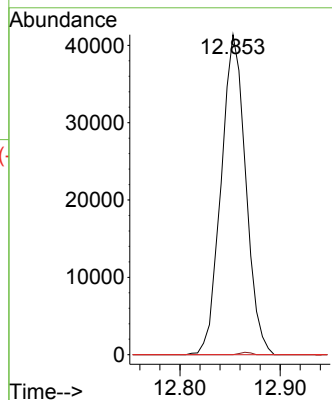
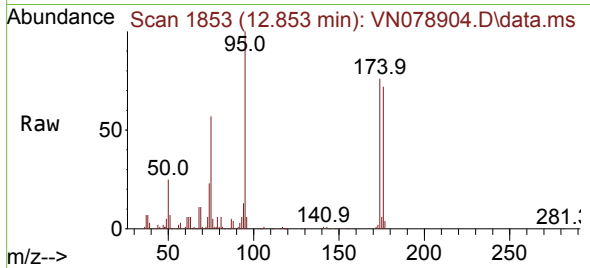




#81
trans-1,4-Dichloro-2-butene
Concen: 80.158 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :
E-1-EPH

Tgt Ion: 75 Resp: 70535
Ion Ratio Lower Upper
75 100
53 0.4 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 2.588 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN078904.D
Acq: 16 Aug 2023 15:41

Tgt Ion: 128 Resp: 62
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

