

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078950.D
 Acq On : 18 Aug 2023 18:24
 Operator : JC\MD
 Sample : PB154902ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:46:31 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)

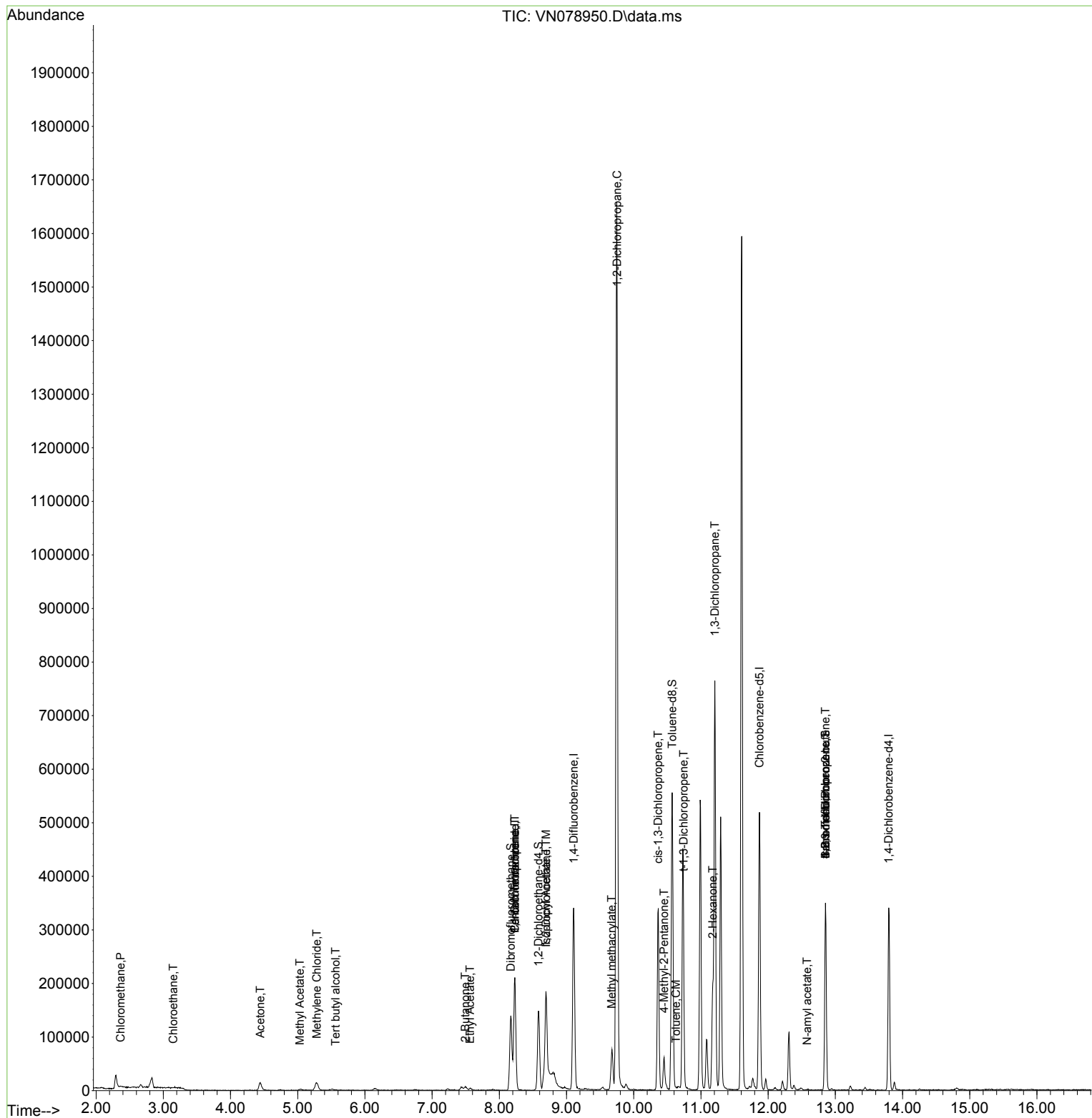
Internal Standards						
1) Pentafluorobenzene	8.230	168	149061	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	287480	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	287270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	88958	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	115783	49.917	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.840%
35) Dibromofluoromethane	8.171	113	97737	50.506	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.020%
50) Toluene-d8	10.571	98	377516	52.539	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.080%
62) 4-Bromofluorobenzene	12.853	95	113461	48.309	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.620%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1324	0.458	ug/l #	42
6) Chloroethane	3.148	64	556	0.314	ug/l #	43
11) Tert butyl alcohol	5.565	59	143	0.367	ug/l #	72
16) Acetone	4.442	43	27413	28.643	ug/l	95
18) Methyl Acetate	5.030	43	1960	0.485	ug/l #	47
20) Methylene Chloride	5.283	84	10828	5.309	ug/l	93
25) 2-Butanone	7.494	43	11091	7.228	ug/l #	84
31) Cyclohexane	8.230	56	3905	Below Cal	#	43
36) 1,1-Dichloropropene	8.230	75	12518	4.300	ug/l #	41
37) Ethyl Acetate	7.565	43	5291	1.625	ug/l #	78
38) Carbon Tetrachloride	8.230	117	15717	5.389	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	885	0.275	ug/l #	73
43) Isopropyl Acetate	8.694	43	239114	41.537	ug/l #	71
45) 1,2-Dichloropropane	9.753	63	2296	1.002	ug/l #	45
48) Methyl methacrylate	9.671	41	5781	2.216	ug/l #	32
51) 4-Methyl-2-Pentanone	10.453	43	45469	13.317	ug/l #	81
52) Toluene	10.630	92	1161	0.220	ug/l	82
53) t-1,3-Dichloropropene	10.741	75	1483	0.446	ug/l #	43
54) cis-1,3-Dichloropropene	10.365	75	55192	15.230	ug/l #	72
57) 1,3-Dichloropropane	11.206	76	6808	1.797	ug/l #	42
59) 2-Hexanone	11.177	43	166703	67.410	ug/l #	19
71) Bromoform	12.853	173	927	0.552	ug/l #	1
74) N-amyl acetate	12.582	43	1297	0.346	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	60438	28.197	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	60438	72.030	ug/l #	15

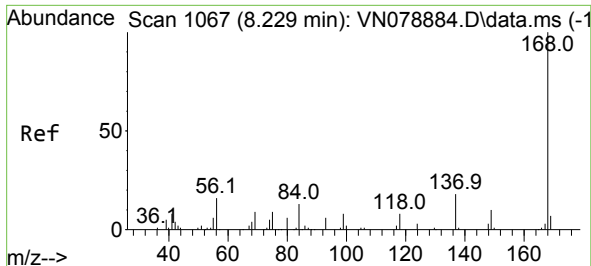
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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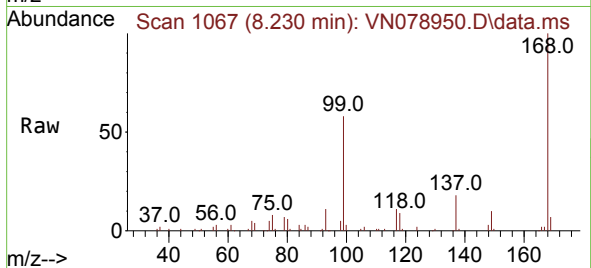
Quant Time: Aug 18 23:46:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
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QLast Update : Wed Aug 16 02:42:02 2023
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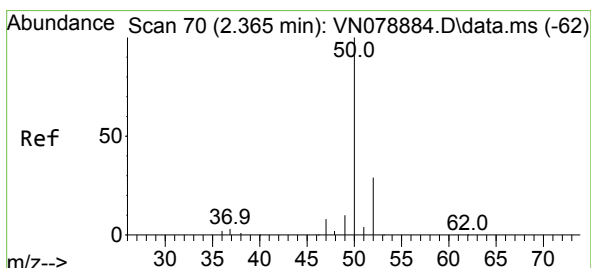
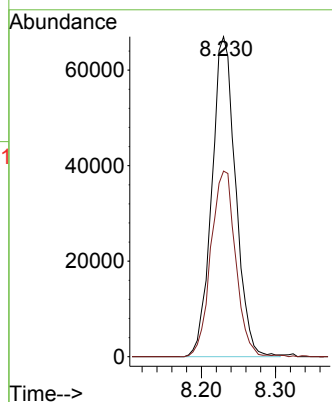
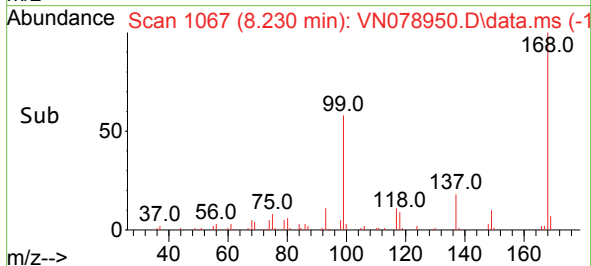


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Instrument :
MSVOA_N
ClientSampleId :

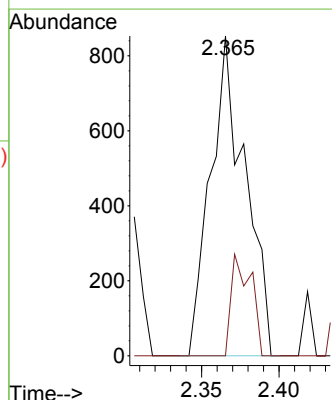
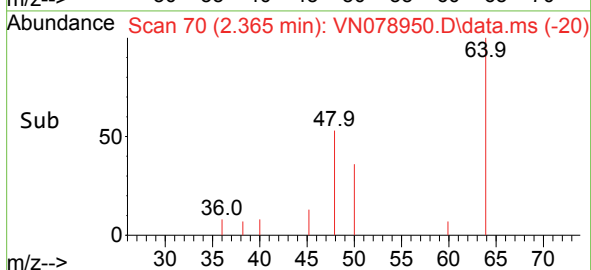
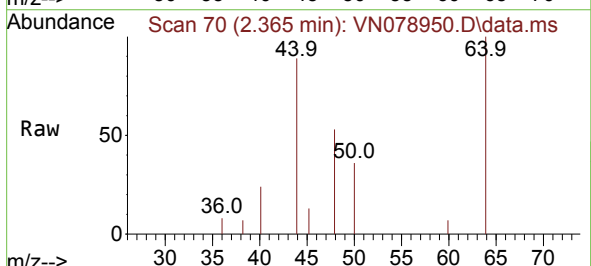


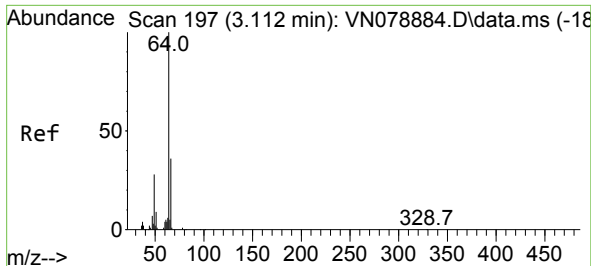
Tgt Ion:168 Resp: 149061
Ion Ratio Lower Upper
168 100
99 58.0 53.0 79.6



#3
Chloromethane
Concen: 0.458 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Tgt Ion: 50 Resp: 1324
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

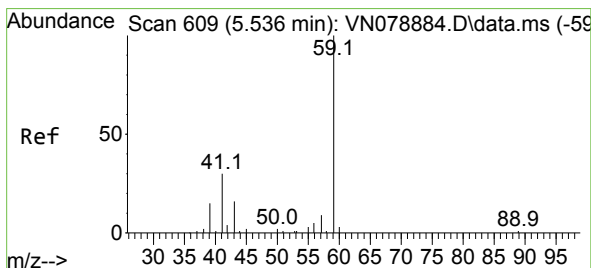
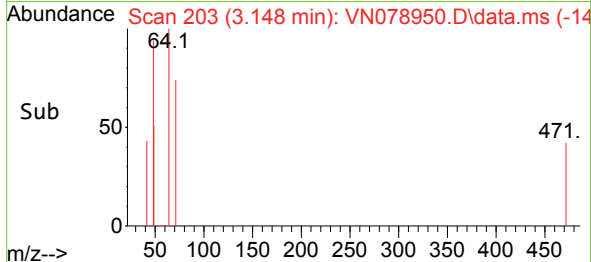
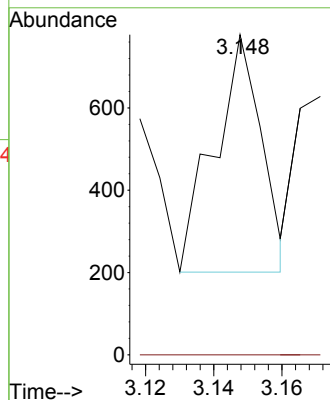
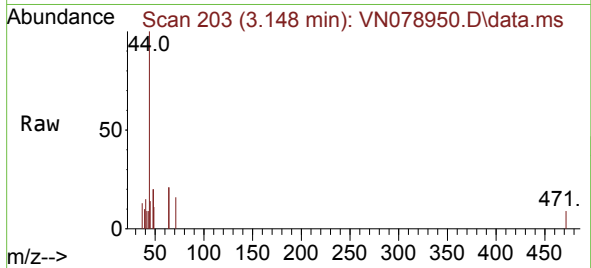




#6
Chloroethane
Concen: 0.314 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.030 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

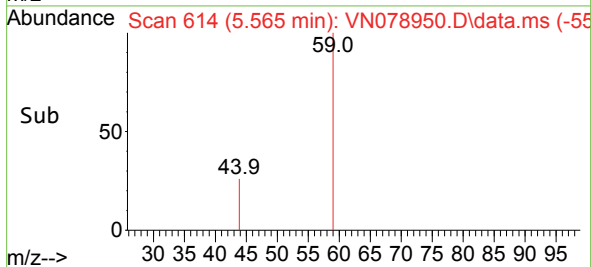
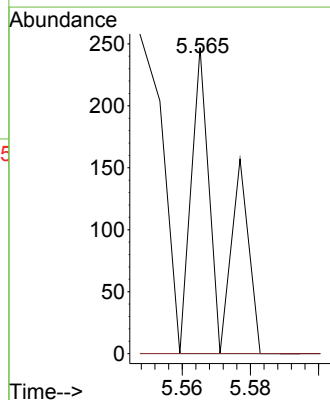
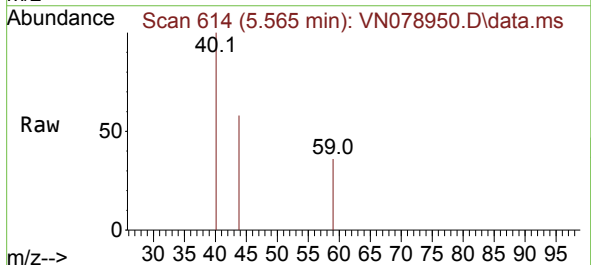
Instrument :
MSVOA_N
ClientSampleId :

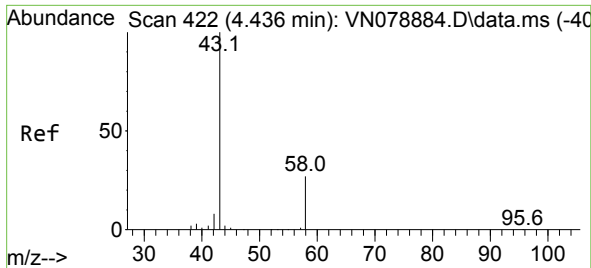
Tgt Ion: 64 Resp: 556
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.367 ug/l
RT: 5.565 min Scan# 614
Delta R.T. 0.023 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Tgt Ion: 59 Resp: 143
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

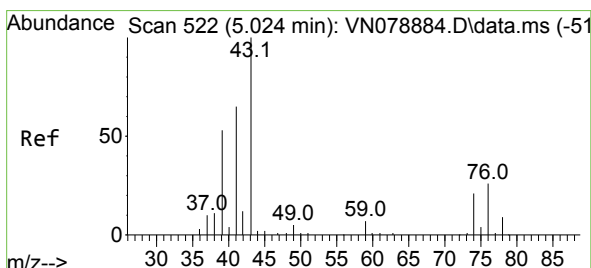
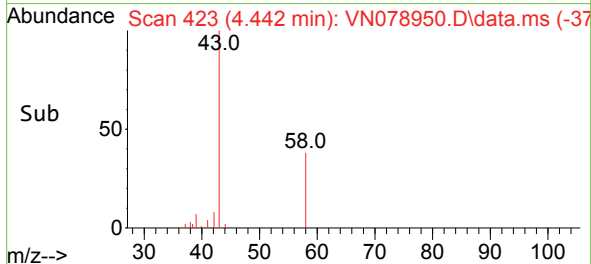
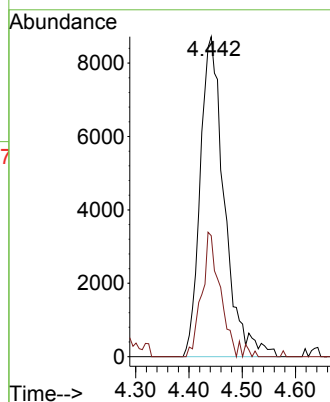
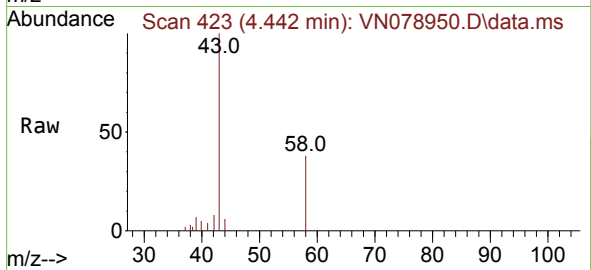




#16
Acetone
Concen: 28.643 ug/l
RT: 4.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

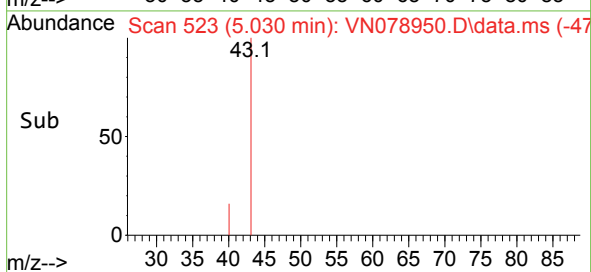
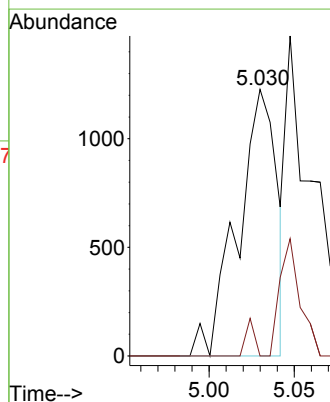
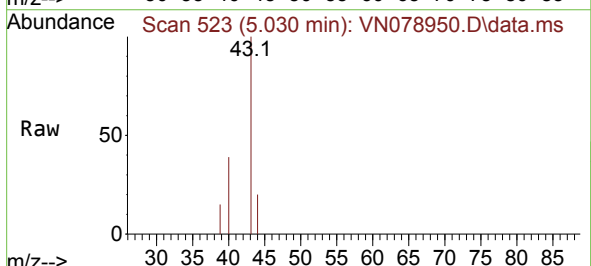
Instrument :
MSVOA_N
ClientSampleId :

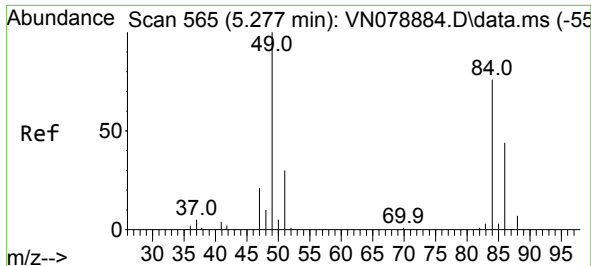
Tgt Ion: 43 Resp: 27413
Ion Ratio Lower Upper
43 100
58 37.8 28.0 42.0



#18
Methyl Acetate
Concen: 0.485 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.012 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

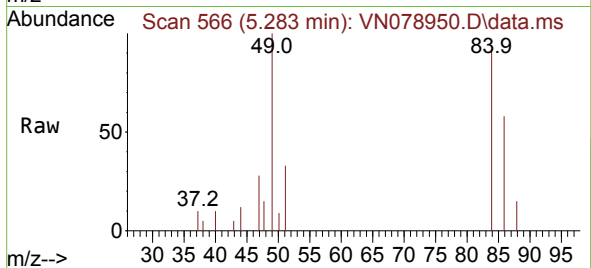
Tgt Ion: 43 Resp: 1960
Ion Ratio Lower Upper
43 100
74 3.1 26.2 39.4#



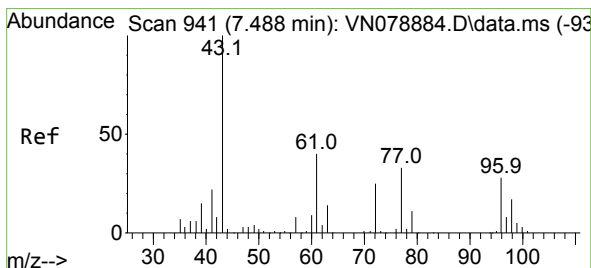
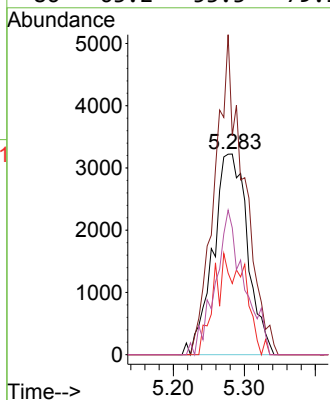
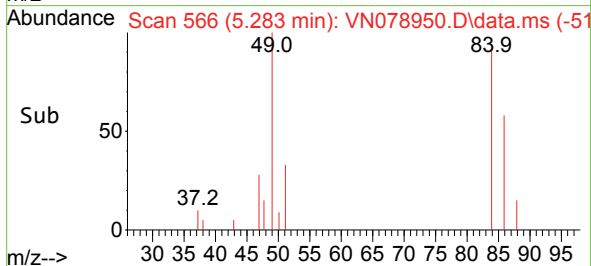


#20
Methylene Chloride
Concen: 5.309 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Instrument :
MSVOA_N
ClientSampleId :

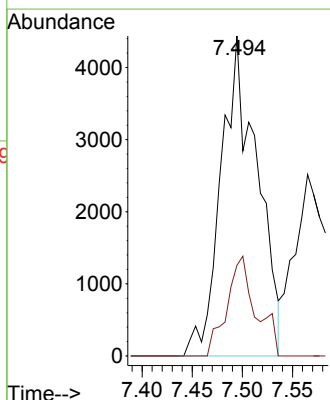
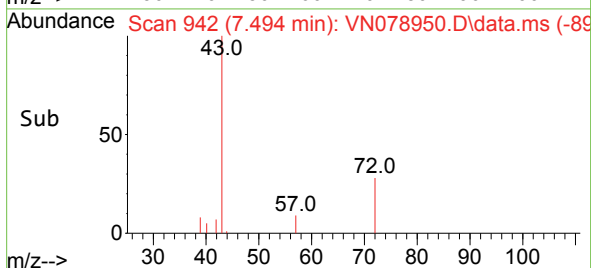
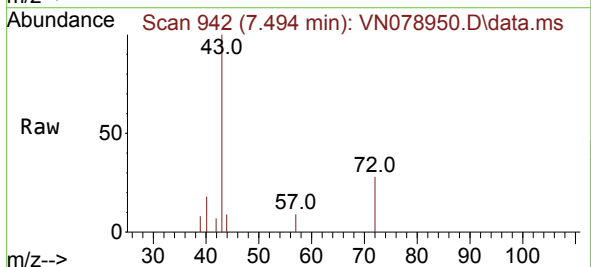


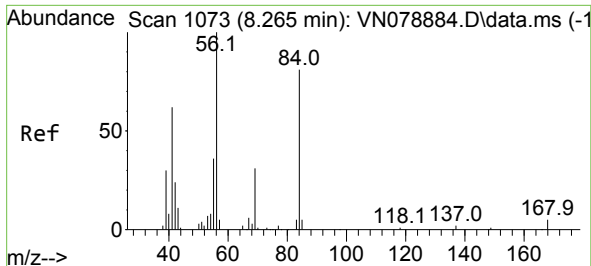
Tgt Ion:	84	Resp:	10828
Ion	Ratio	Lower	Upper
84	100		
49	109.2	79.7	119.5
51	35.5	25.2	37.8
86	63.2	53.3	79.9



#25
2-Butanone
Concen: 7.228 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

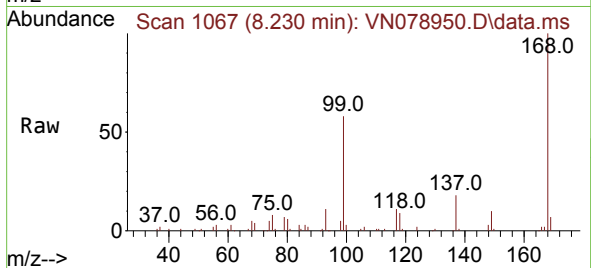
Tgt Ion:	43	Resp:	11091
Ion	Ratio	Lower	Upper
43	100		
72	28.3	30.2	45.2#



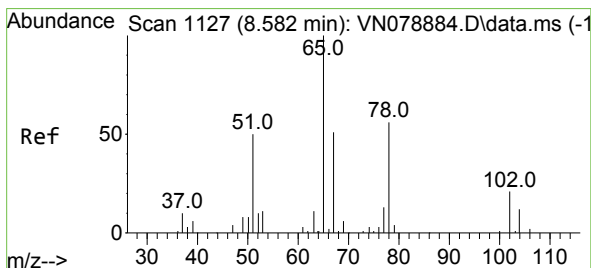
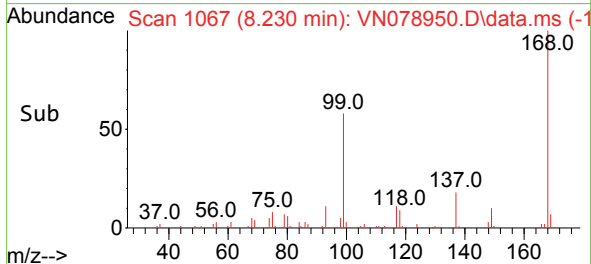
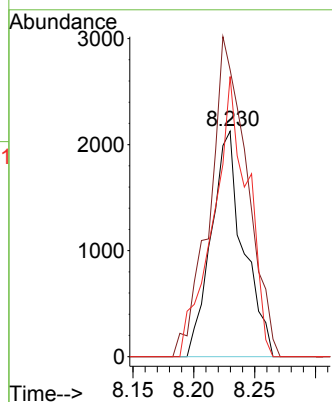


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Instrument :
MSVOA_N
ClientSampleId :

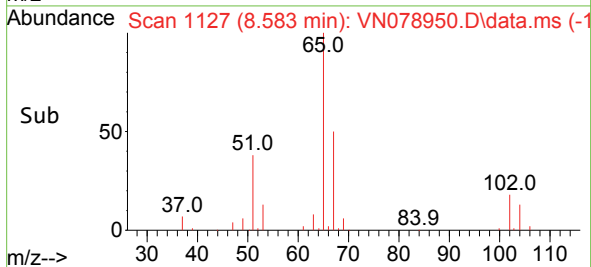
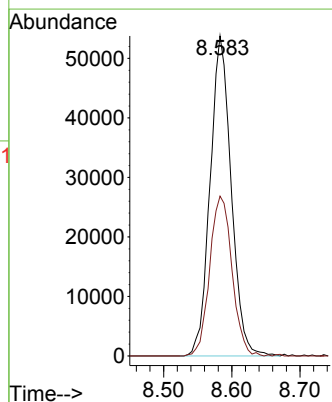
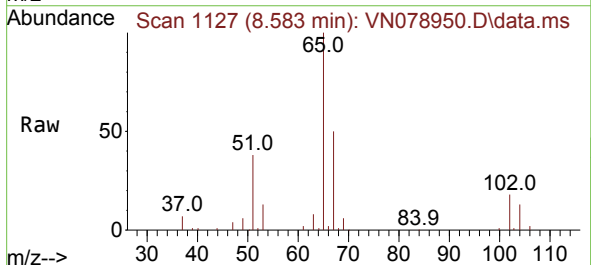


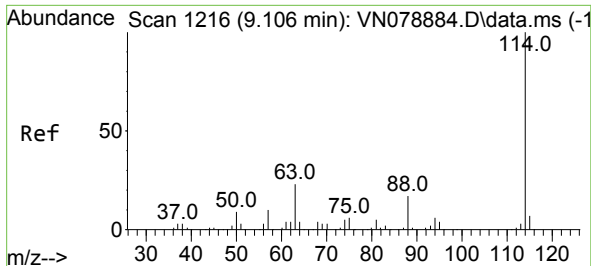
Tgt Ion: 56 Resp: 3905
Ion Ratio Lower Upper
56 100
69 127.2 26.8 40.2#
84 124.3 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.917 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Tgt Ion: 65 Resp: 115783
Ion Ratio Lower Upper
65 100
67 52.7 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: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :

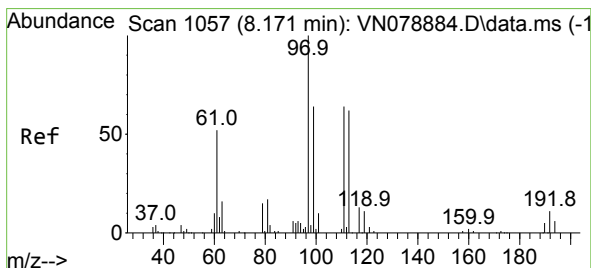
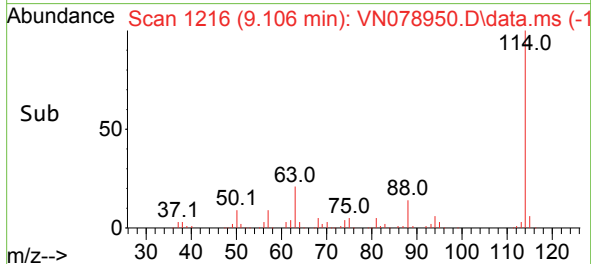
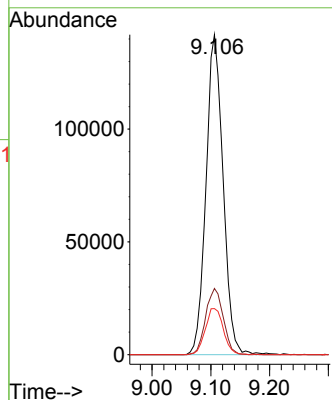
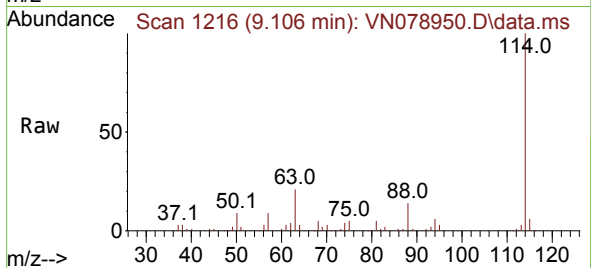
Tgt Ion:114 Resp: 287480

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.4

88 14.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.506 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

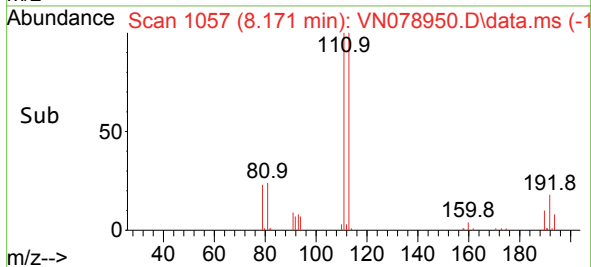
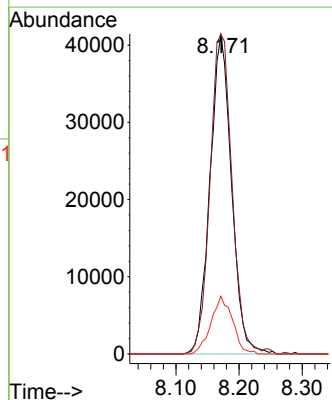
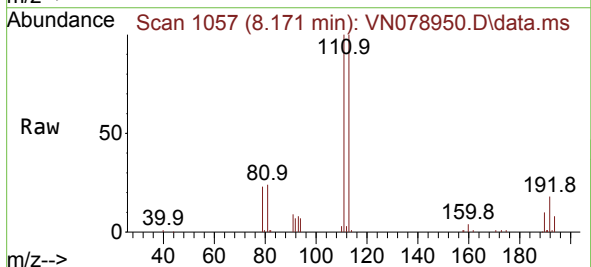
Tgt Ion:113 Resp: 97737

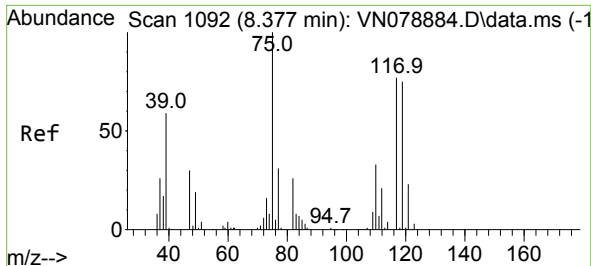
Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

192 18.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.300 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

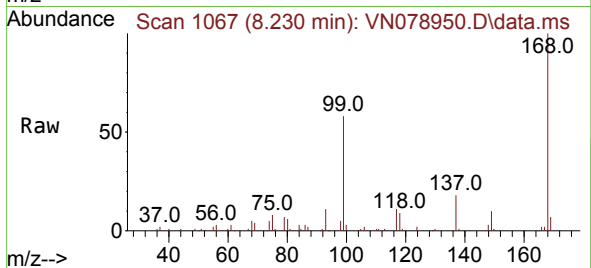
Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :



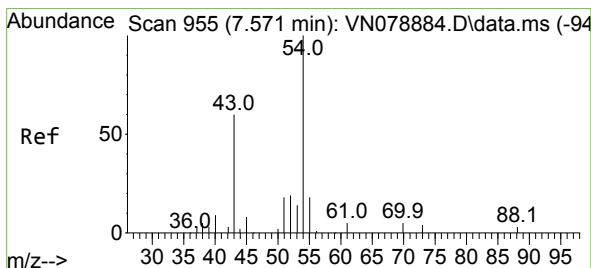
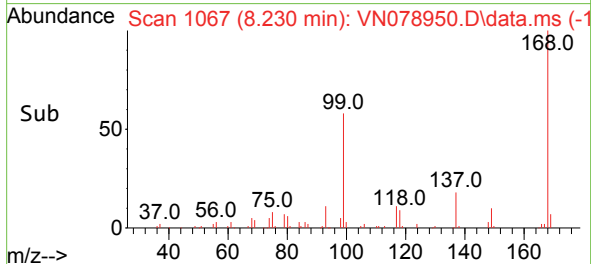
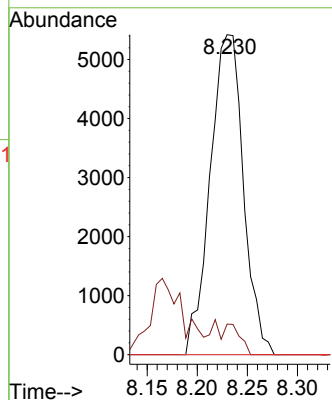
Tgt Ion: 75 Resp: 12518

Ion Ratio Lower Upper

75 100

110 1.4 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.625 ug/l

RT: 7.565 min Scan# 954

Delta R.T. -0.006 min

Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

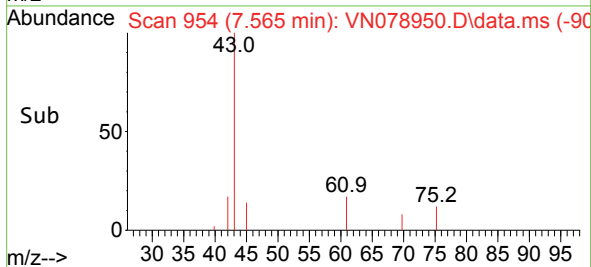
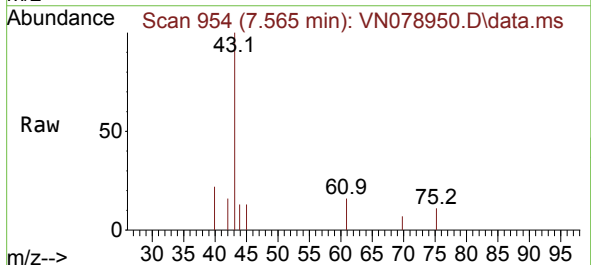
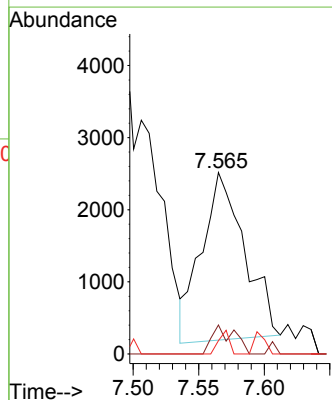
Tgt Ion: 43 Resp: 5291

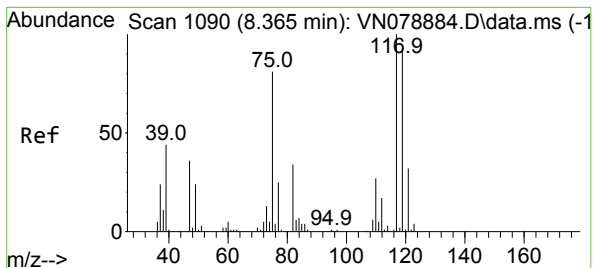
Ion Ratio Lower Upper

43 100

61 8.9 13.2 19.8#

70 3.4 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.389 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

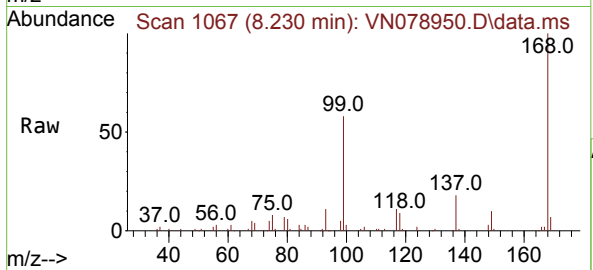
Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :



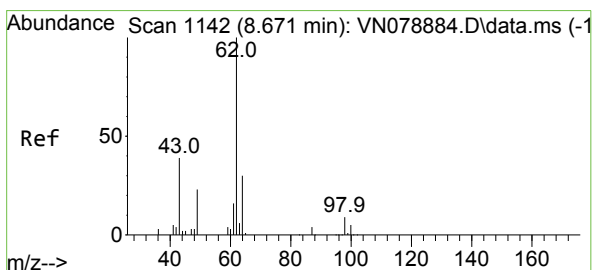
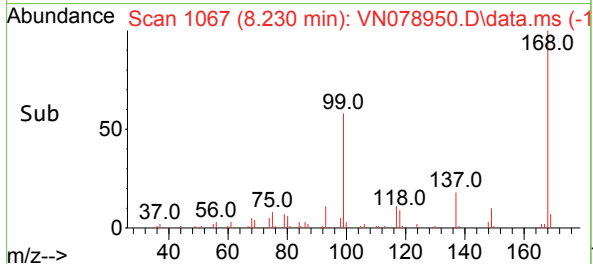
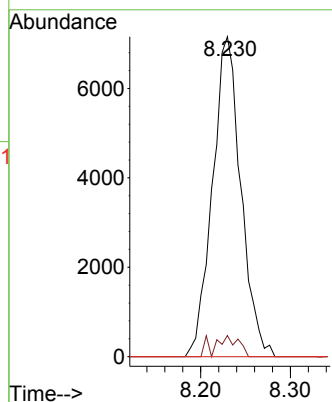
Tgt Ion:117 Resp: 15717

Ion Ratio Lower Upper

117 100

119 6.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.275 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078950.D

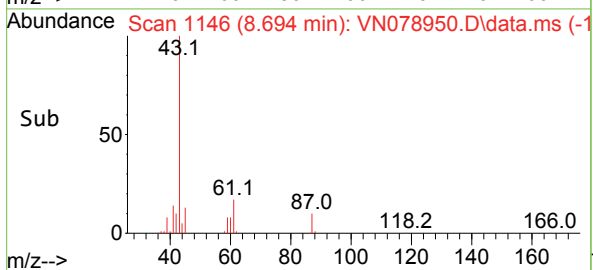
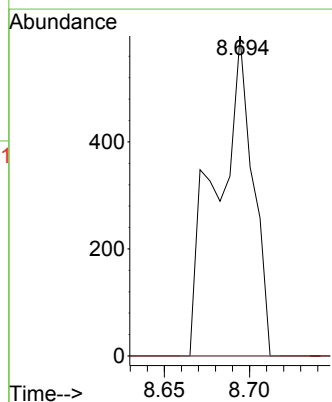
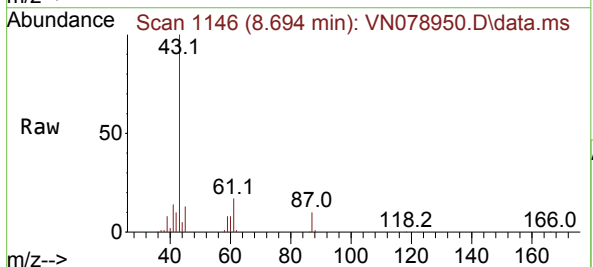
Acq: 18 Aug 2023 18:24

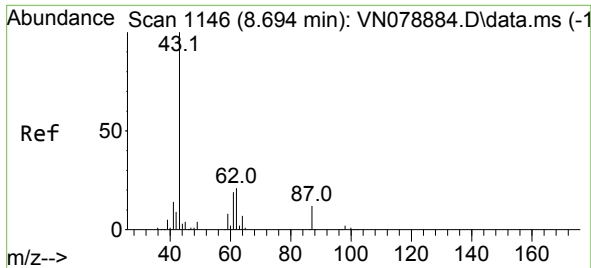
Tgt Ion: 62 Resp: 885

Ion Ratio Lower Upper

62 100

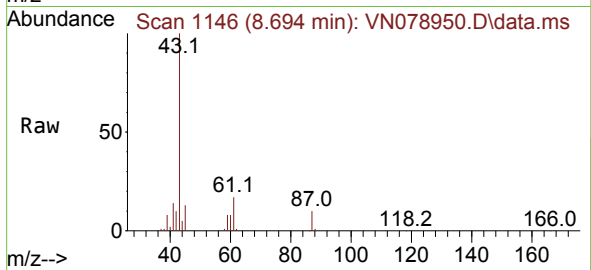
98 0.0 0.0 19.8



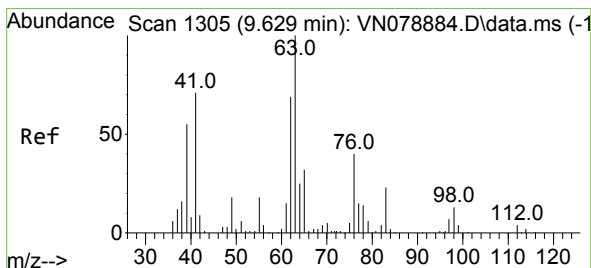
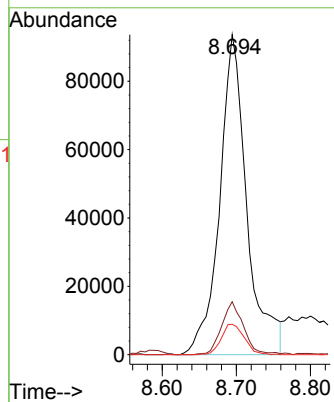
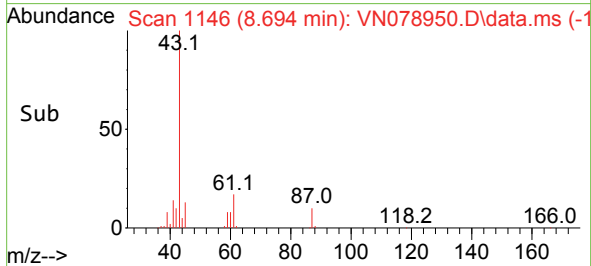


#43
Isopropyl Acetate
Concen: 41.537 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

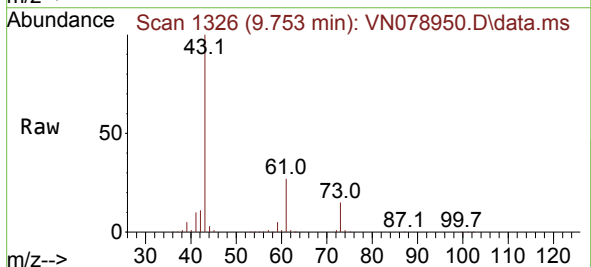
Instrument :
MSVOA_N
ClientSampleId :



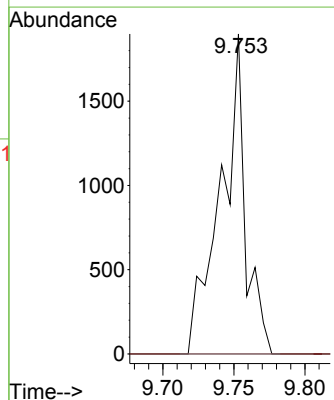
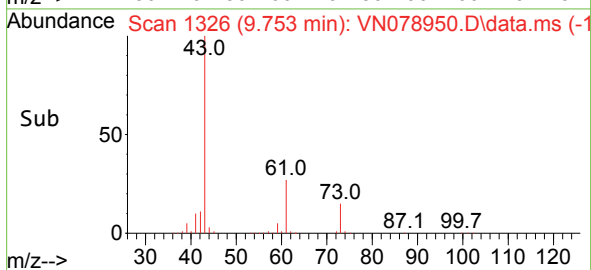
Tgt Ion: 43 Resp: 239114
Ion Ratio Lower Upper
43 100
61 13.5 24.7 37.1#
87 8.0 14.6 21.8#

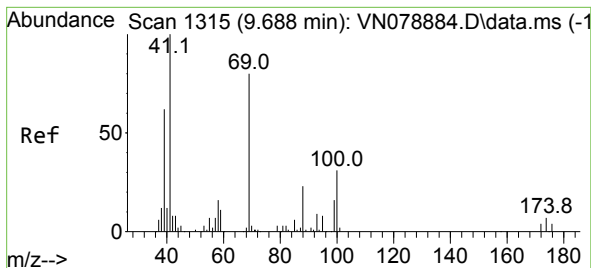


#45
1,2-Dichloropropane
Concen: 1.002 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24



Tgt Ion: 63 Resp: 2296
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 2.216 ug/l

RT: 9.671 min Scan# 11

Delta R.T. -0.017 min

Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :

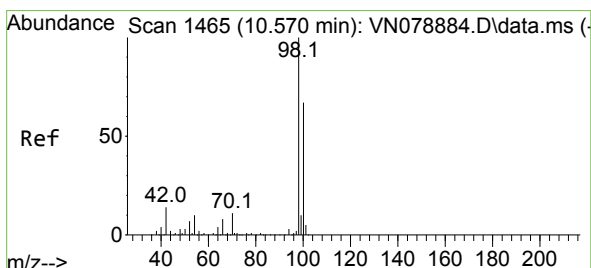
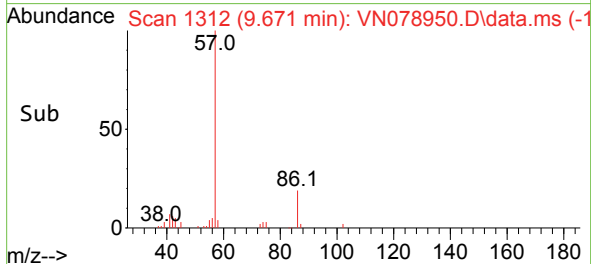
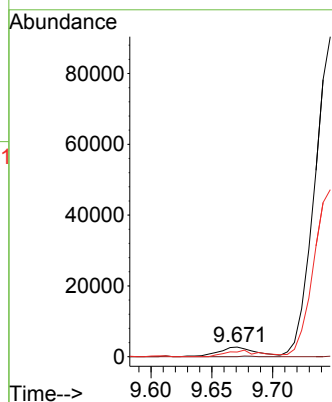
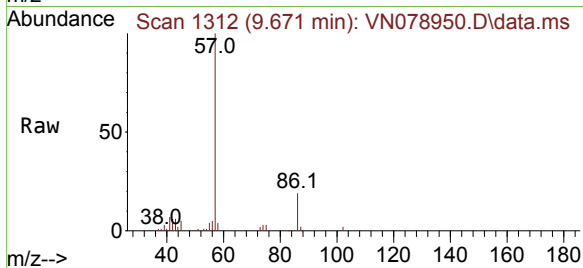
Tgt Ion: 41 Resp: 5781

Ion Ratio Lower Upper

41 100

69 2.1 90.4 135.6#

39 60.0 54.6 81.8



#50

Toluene-d8

Concen: 52.539 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078950.D

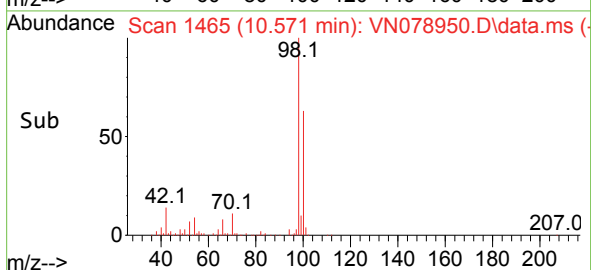
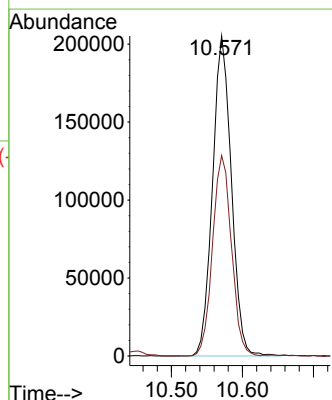
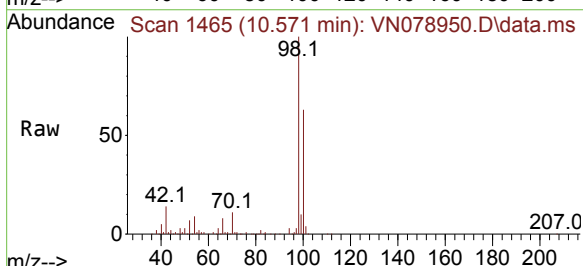
Acq: 18 Aug 2023 18:24

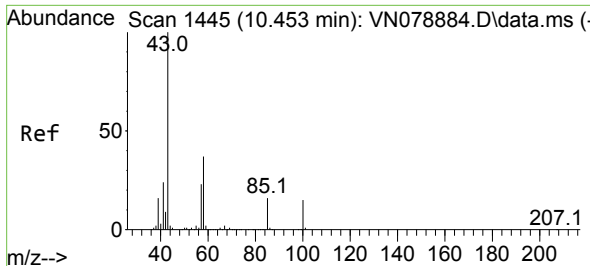
Tgt Ion: 98 Resp: 377516

Ion Ratio Lower Upper

98 100

100 62.9 52.0 78.0

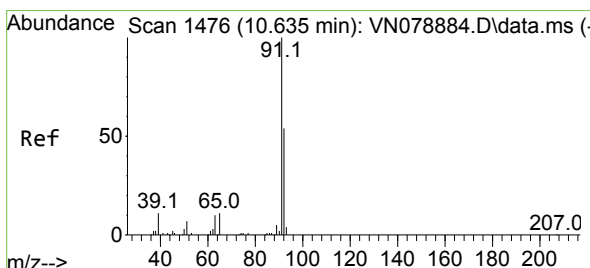
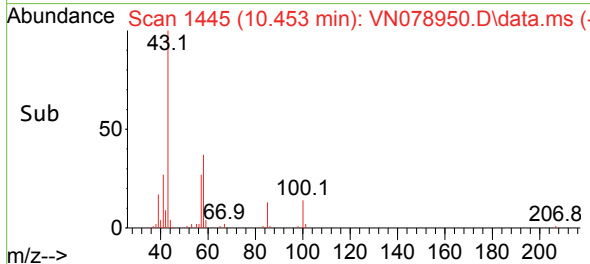
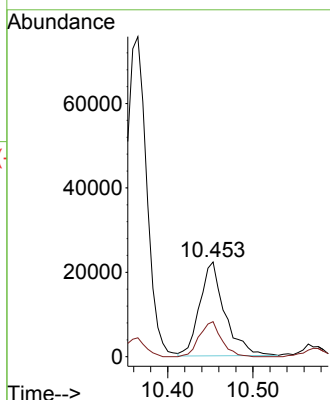
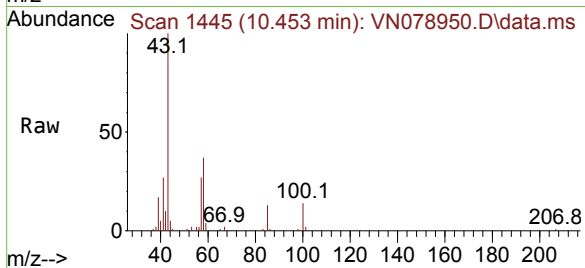




#51
4-Methyl-2-Pentanone
Concen: 13.317 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

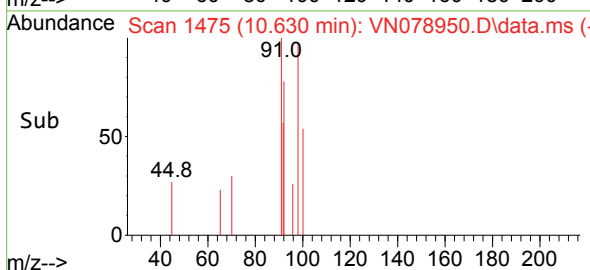
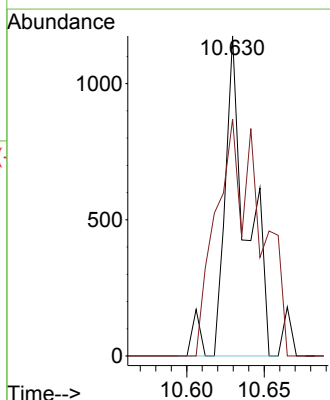
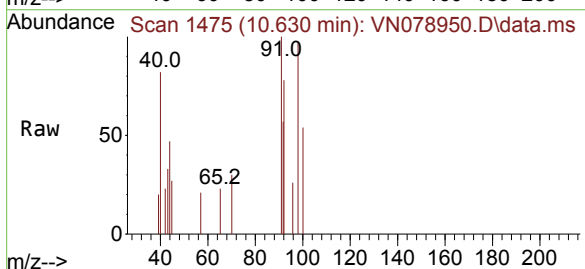
Instrument :
MSVOA_N
ClientSampleId :

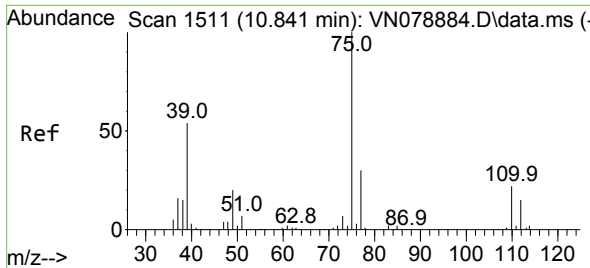
Tgt Ion: 43 Resp: 45469
Ion Ratio Lower Upper
43 100
58 33.1 36.6 54.8#



#52
Toluene
Concen: 0.220 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.005 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Tgt Ion: 92 Resp: 1161
Ion Ratio Lower Upper
92 100
91 147.5 137.4 206.0

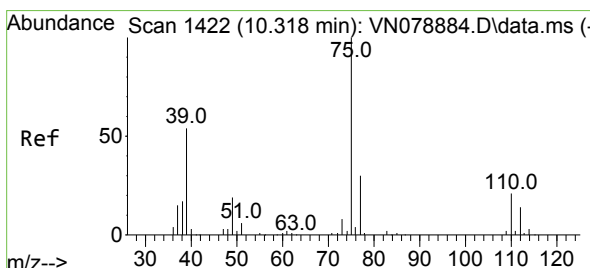
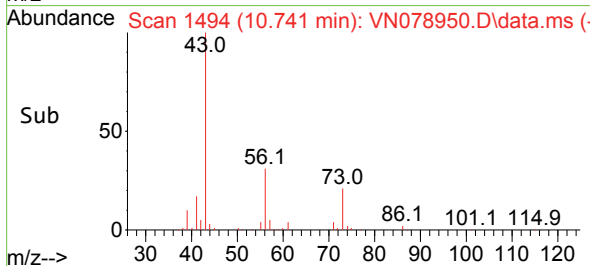
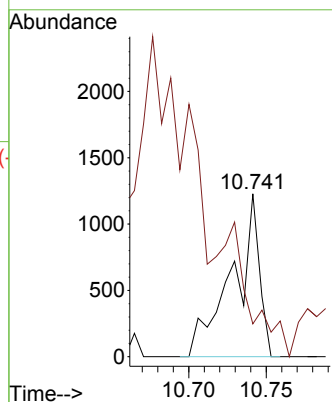
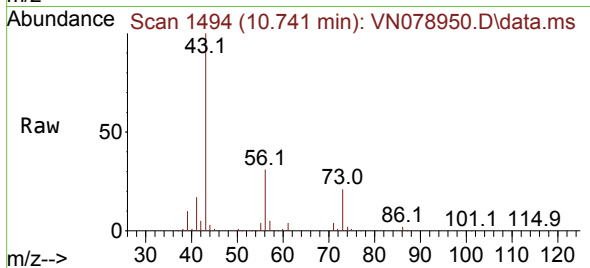




#53
t-1,3-Dichloropropene
Concen: 0.446 ug/l
RT: 10.741 min Scan# 1483
Delta R.T. -0.100 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

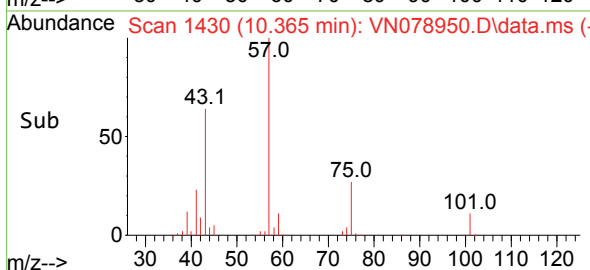
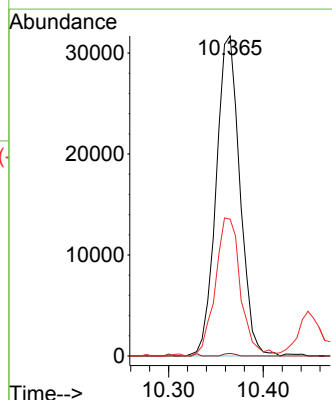
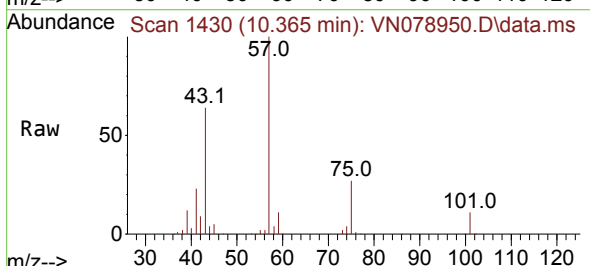
Instrument :
MSVOA_N
ClientSampleId :

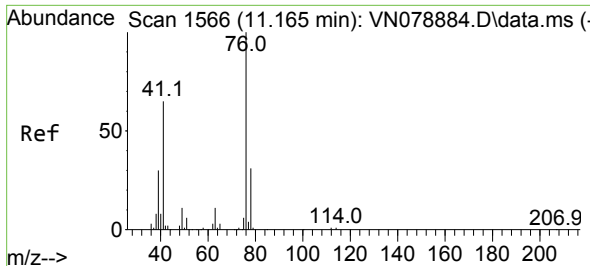
Tgt Ion: 75 Resp: 1483
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 15.230 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

Tgt Ion: 75 Resp: 55192
Ion Ratio Lower Upper
75 100
77 0.8 26.1 39.1#
39 42.1 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.797 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

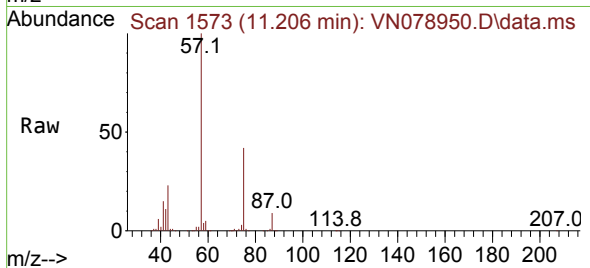
Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :

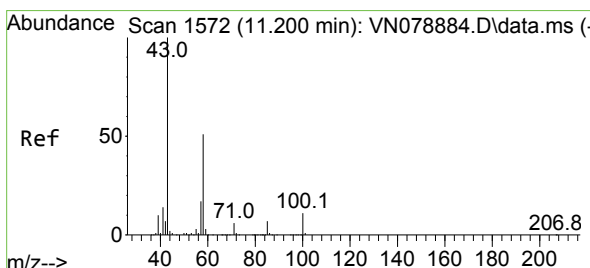
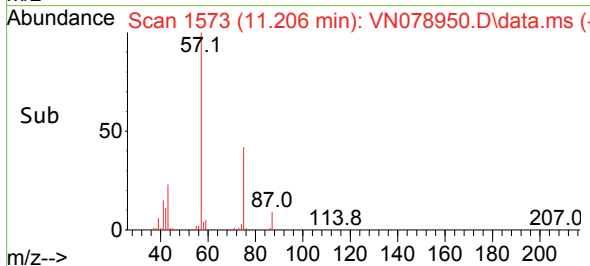
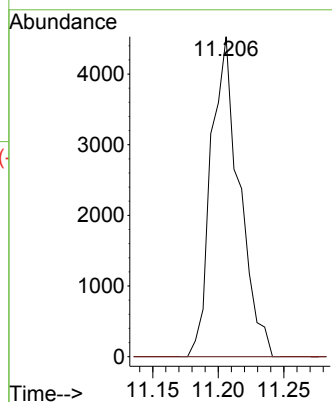


Tgt Ion: 76 Resp: 6808

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 67.410 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078950.D

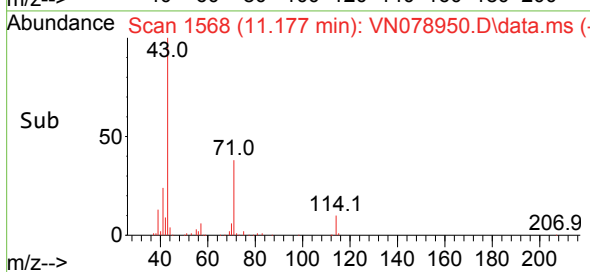
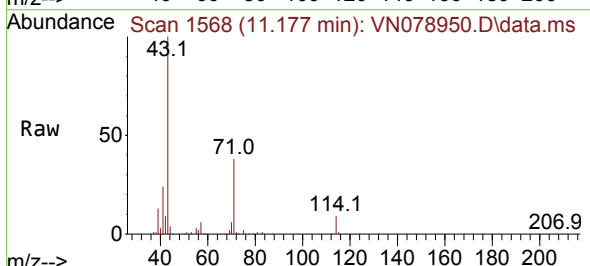
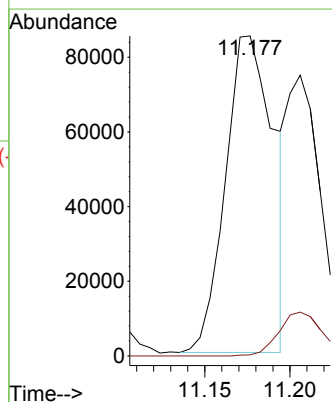
Acq: 18 Aug 2023 18:24

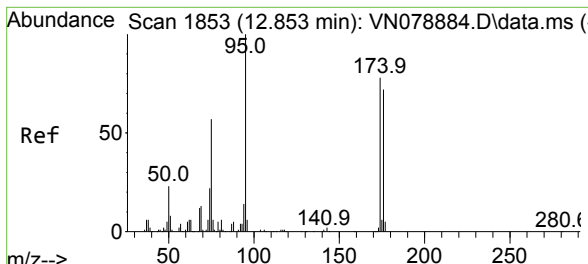
Tgt Ion: 43 Resp: 166703

Ion Ratio Lower Upper

43 100

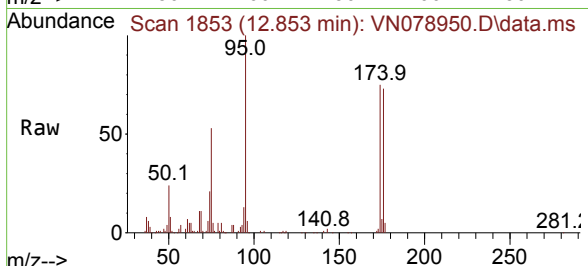
58 0.0 31.7 95.1#



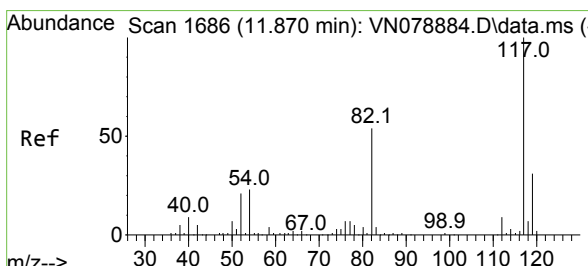
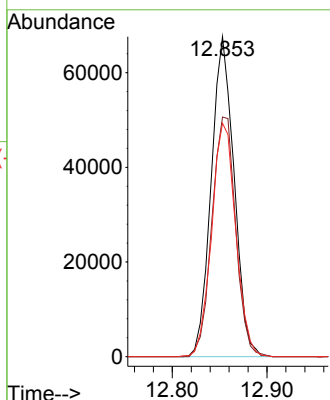
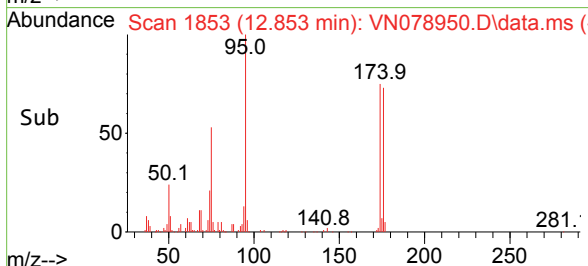


#62
4-Bromofluorobenzene
Concen: 48.309 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24

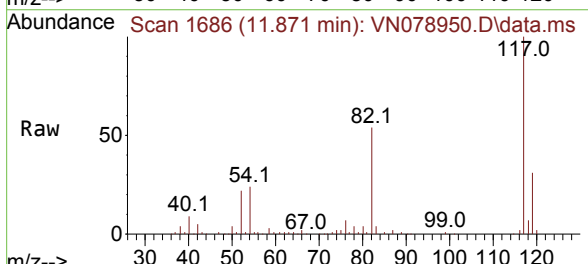
Instrument :
MSVOA_N
ClientSampleId :



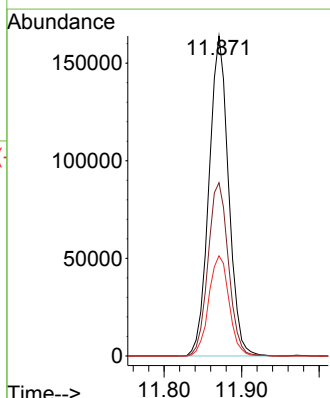
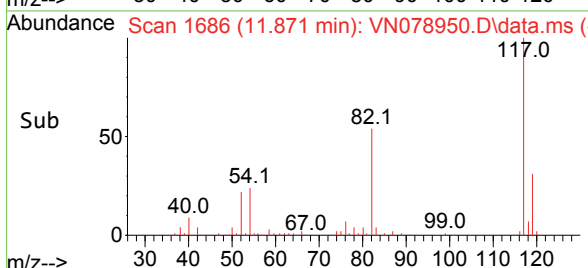
Tgt Ion:	95	Resp:	113461
Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	143.8
176	76.9	0.0	135.8

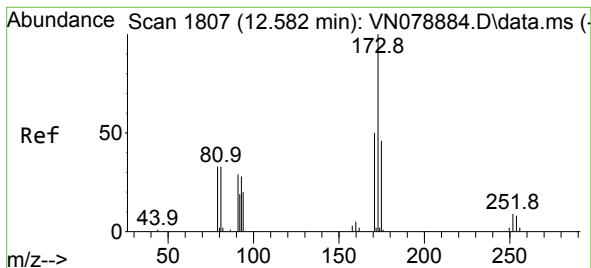


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078950.D
Acq: 18 Aug 2023 18:24



Tgt Ion:	117	Resp:	287270
Ion	Ratio	Lower	Upper
117	100		
82	54.2	44.0	66.0
119	31.3	25.6	38.4





#71

Bromoform

Concen: 0.552 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :

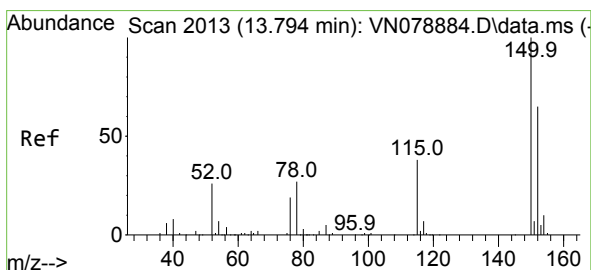
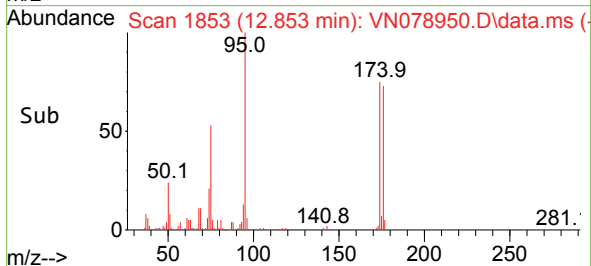
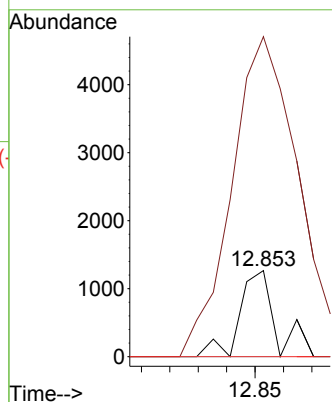
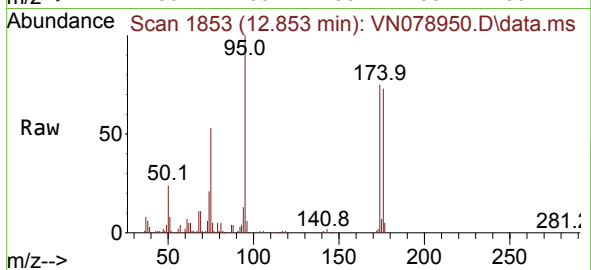
Tgt Ion:173 Resp: 927

Ion Ratio Lower Upper

173 100

175 629.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

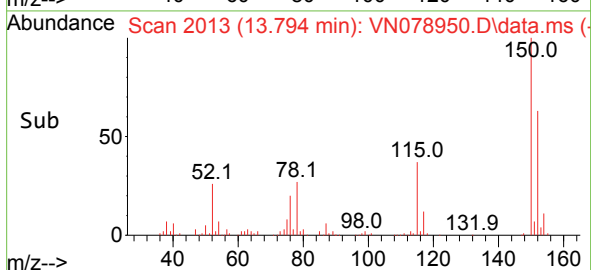
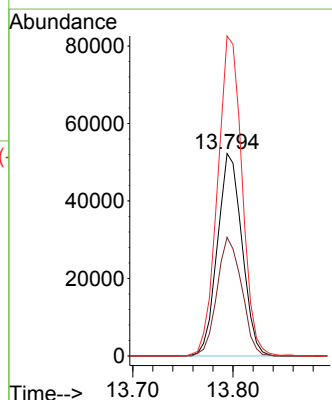
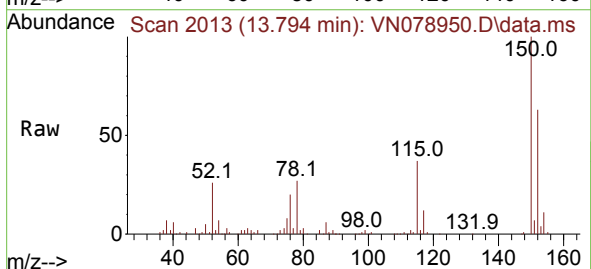
Tgt Ion:152 Resp: 88958

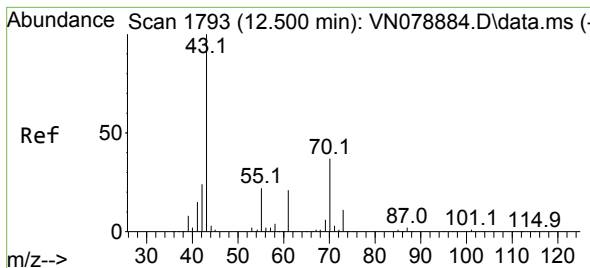
Ion Ratio Lower Upper

152 100

115 58.6 32.3 96.8

150 157.3 0.0 355.8





#74

N-amy1 acetate

Concen: 0.346 ug/l

RT: 12.582 min Scan# 1807

Delta R.T. 0.082 min

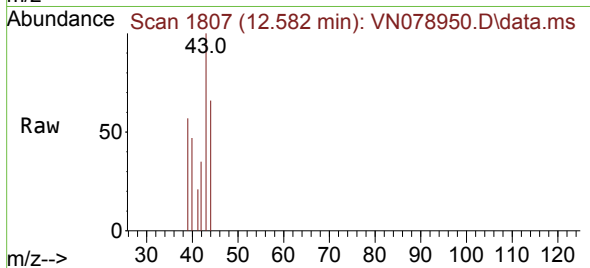
Lab File: VN078950.D

Acq: 18 Aug 2023 18:24

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1297

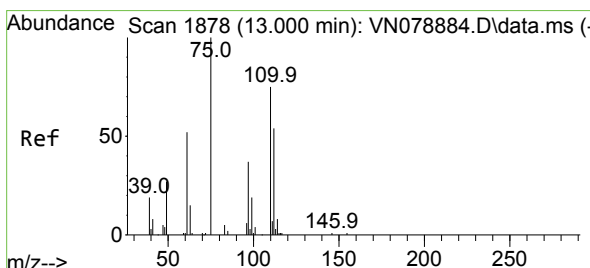
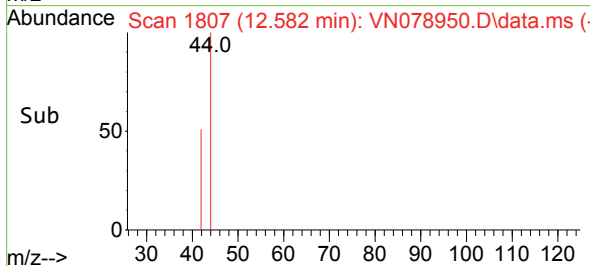
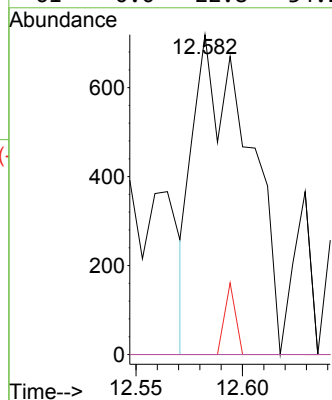
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 28.197 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078950.D

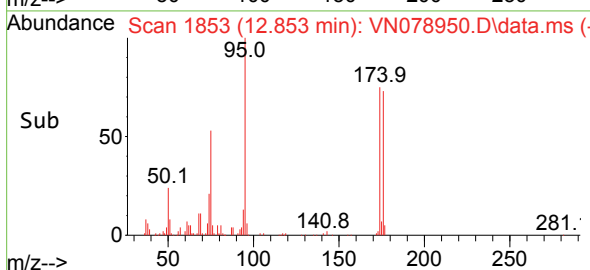
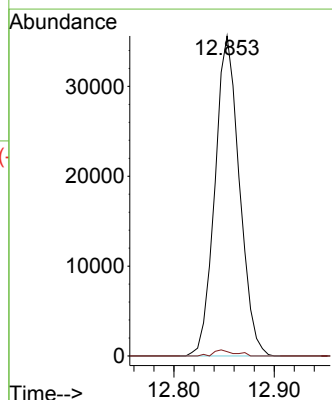
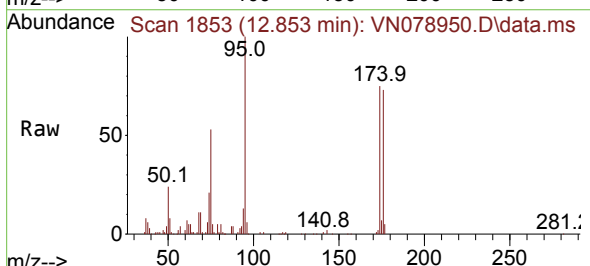
Acq: 18 Aug 2023 18:24

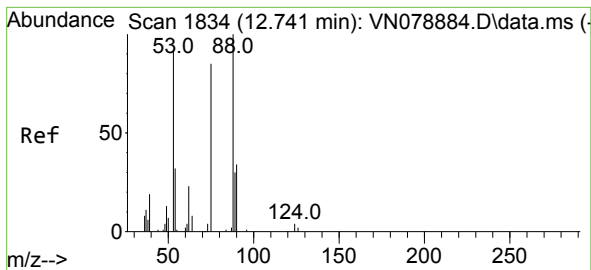
Tgt Ion: 75 Resp: 60438

Ion Ratio Lower Upper

75 100

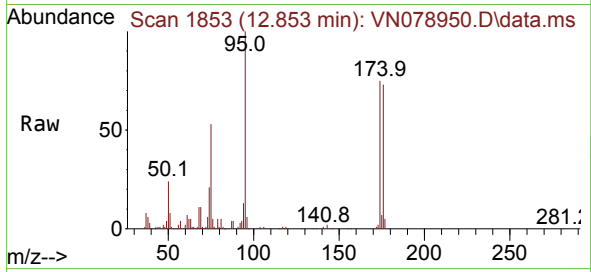
77 1.6 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.030 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078950.D
 Acq: 18 Aug 2023 18:24

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 60438
 Ion Ratio Lower Upper
 75 100
 53 0.3 67.4 101.2#
 89 0.0 38.8 58.2#

