

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013023\
 Data File : VN076464.D
 Acq On : 30 Jan 2023 18:05
 Operator : JC\MD
 Sample : 01318-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 00:43:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

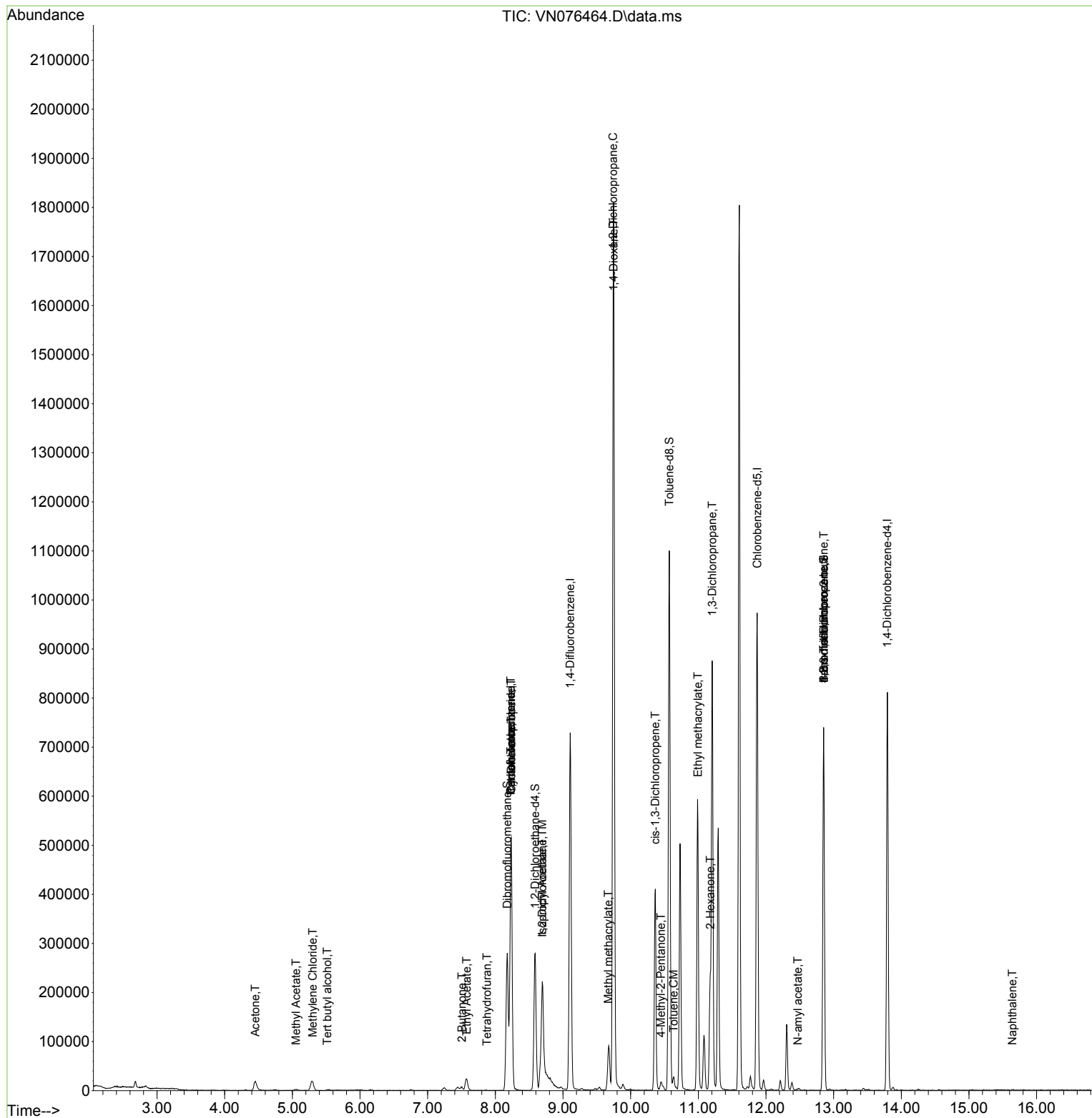
Internal Standards						
1) Pentafluorobenzene	8.230	168	381701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	649233	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	577305	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	218150	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	236150	55.255	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.500%	
35) Dibromofluoromethane	8.177	113	199790	49.195	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.380%	
50) Toluene-d8	10.571	98	766323	51.093	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.180%	
62) 4-Bromofluorobenzene	12.853	95	248377	50.727	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.460%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	694	1.214	ug/l #	72
16) Acetone	4.453	43	37067	26.989	ug/l	99
18) Methyl Acetate	5.053	43	4900	1.055	ug/l #	83
20) Methylene Chloride	5.300	84	16108	3.412	ug/l	90
25) 2-Butanone	7.506	43	11891	5.683	ug/l #	85
29) Tetrahydrofuran	7.877	42	630	0.488	ug/l #	32
31) Cyclohexane	8.235	56	8278	1.261	ug/l #	6
36) 1,1-Dichloropropene	8.235	75	29807	5.165	ug/l #	50
37) Ethyl Acetate	7.577	43	37824	8.202	ug/l	98
38) Carbon Tetrachloride	8.230	117	40434	6.283	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1632	0.276	ug/l #	73
43) Isopropyl Acetate	8.694	43	340251	45.185	ug/l #	73
45) 1,2-Dichloropropane	9.741	63	2732	0.661	ug/l #	42
48) Methyl methacrylate	9.671	41	5872	1.647	ug/l #	37
49) 1,4-Dioxane	9.747	88	58	0.771	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	16873	3.817	ug/l #	71
52) Toluene	10.635	92	10743	0.931	ug/l	97
54) cis-1,3-Dichloropropene	10.365	75	78111	11.772	ug/l #	62
56) Ethyl methacrylate	10.994	69	2504	0.440	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9213	1.285	ug/l #	42
59) 2-Hexanone	11.176	43	159932	49.927	ug/l #	21
71) Bromoform	12.853	173	1640	0.500	ug/l #	1
74) N-amyl acetate	12.470	43	3280	0.676	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	133051	33.160	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	133051	101.478	ug/l #	11
95) Naphthalene	15.641	128	1530	1.969	ug/l #	75

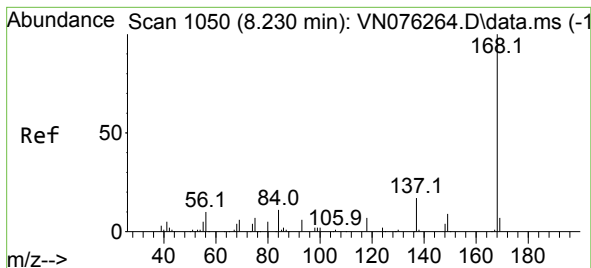
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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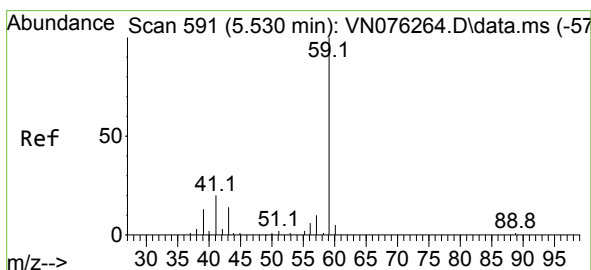
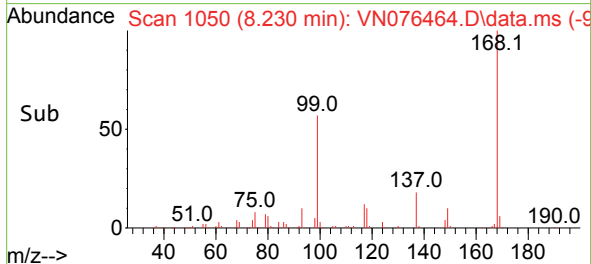
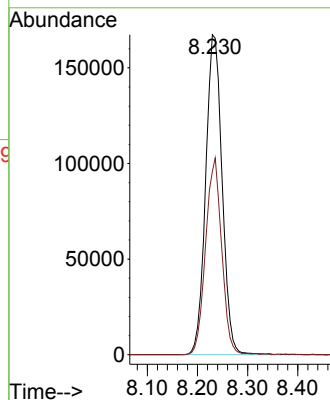
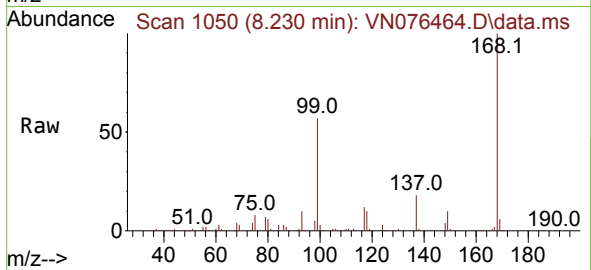




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

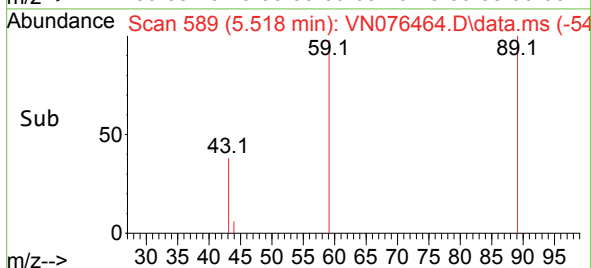
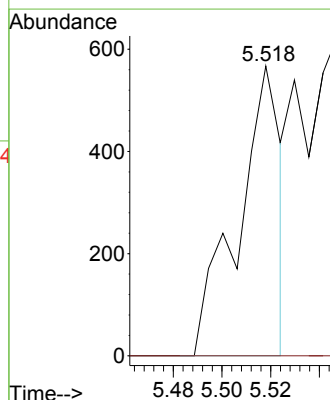
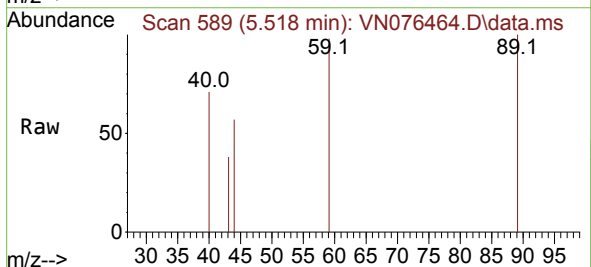
Instrument :
MSVOA_N
ClientSampleId :

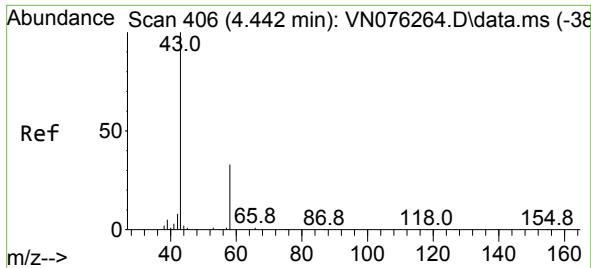
Tgt Ion:168 Resp: 381701
Ion Ratio Lower Upper
168 100
99 57.2 41.6 62.4



#11
Tert butyl alcohol
Concen: 1.214 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.012 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 59 Resp: 694
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#16

Acetone

Concen: 26.989 ug/l

RT: 4.453 min Scan# 40

Delta R.T. 0.011 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Instrument :

MSVOA_N

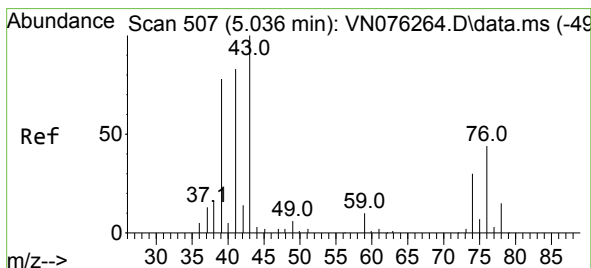
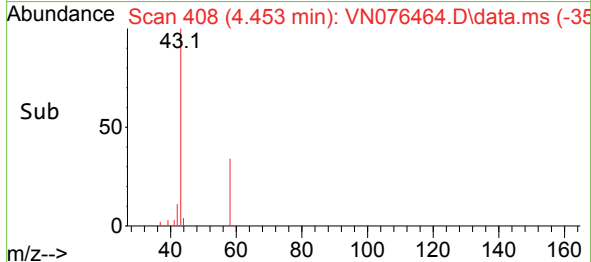
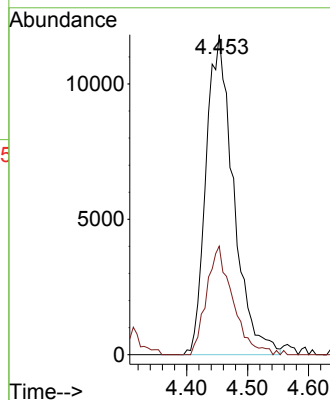
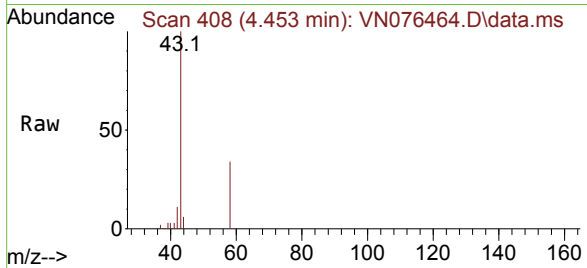
ClientSampleId :

Tgt Ion: 43 Resp: 37067

Ion Ratio Lower Upper

43 100

58 33.9 26.7 40.1



#18

Methyl Acetate

Concen: 1.055 ug/l

RT: 5.053 min Scan# 510

Delta R.T. 0.017 min

Lab File: VN076464.D

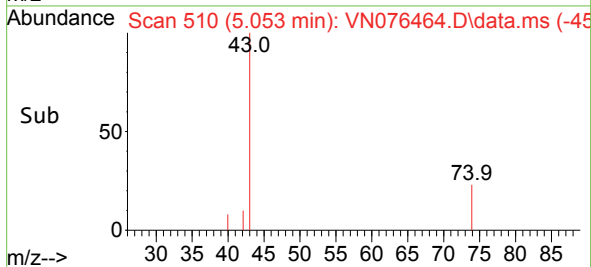
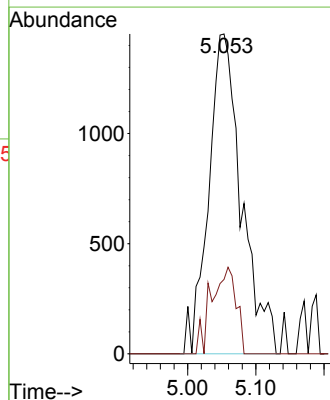
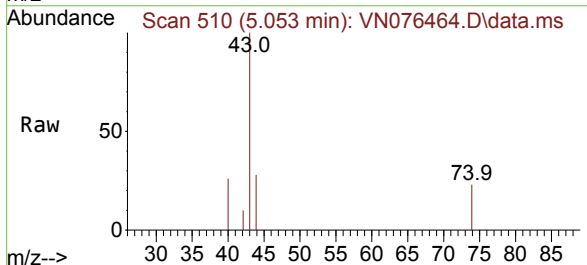
Acq: 30 Jan 2023 18:05

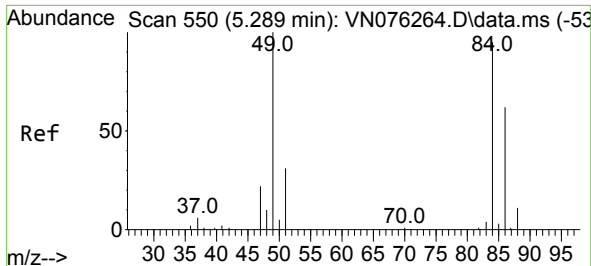
Tgt Ion: 43 Resp: 4900

Ion Ratio Lower Upper

43 100

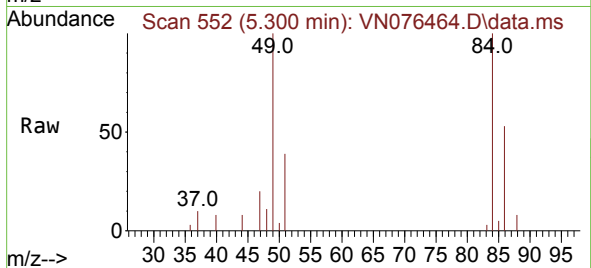
74 20.2 23.3 34.9#



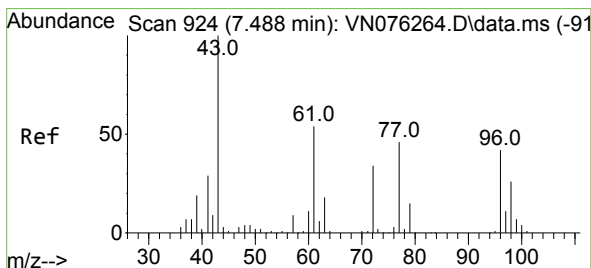
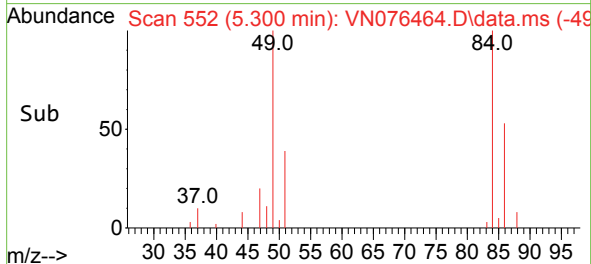
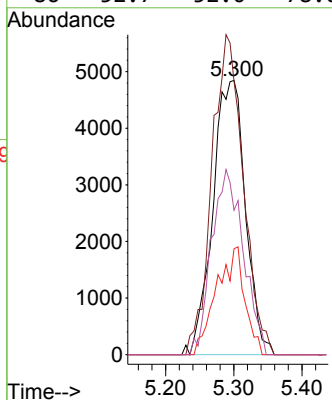


#20
Methylene Chloride
Concen: 3.412 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Instrument :
MSVOA_N
ClientSampleId :

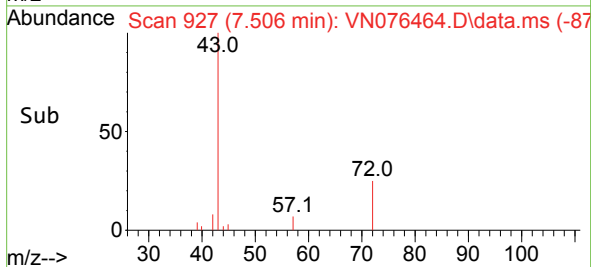
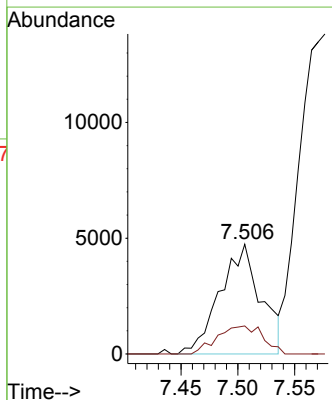
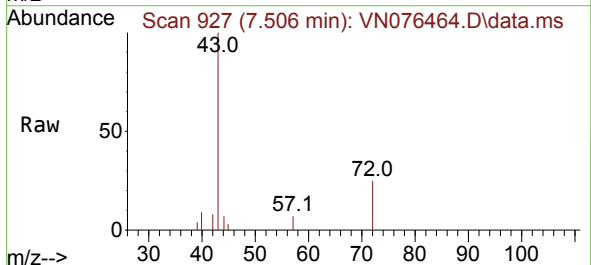


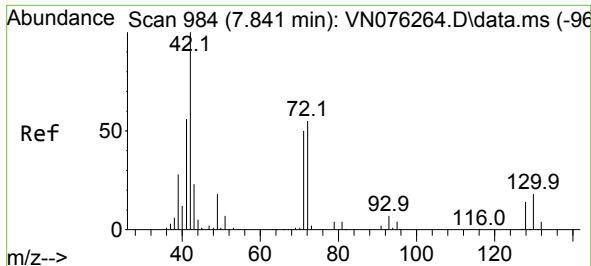
Tgt Ion: 84	Resp:	16108	
Ion	Ratio	Lower	Upper
84	100		
49	99.6	84.5	126.7
51	38.6	26.0	39.0
86	52.7	52.0	78.0



#25
2-Butanone
Concen: 5.683 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.018 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

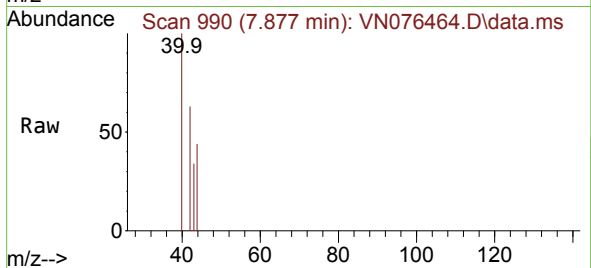
Tgt Ion: 43	Resp:	11891	
Ion Ratio	Lower	Upper	
43	100		
72	25.4	27.4	41.2#



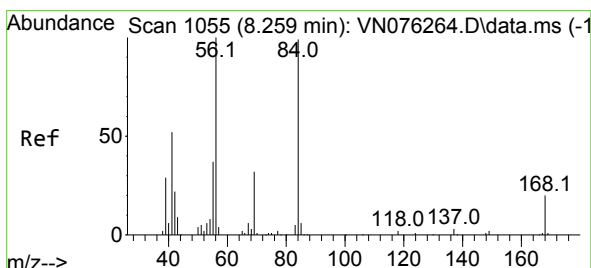
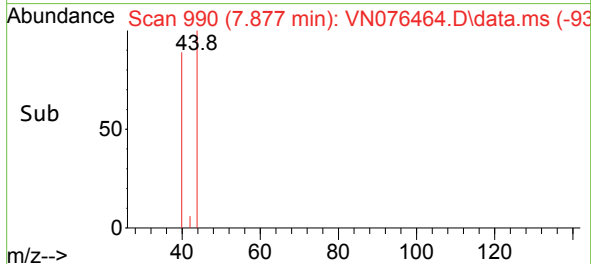
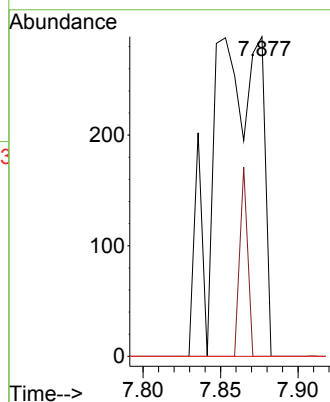


#29
Tetrahydrofuran
Concen: 0.488 ug/l
RT: 7.877 min Scan# 990
Delta R.T. 0.036 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Instrument :
MSVOA_N
ClientSampleId :

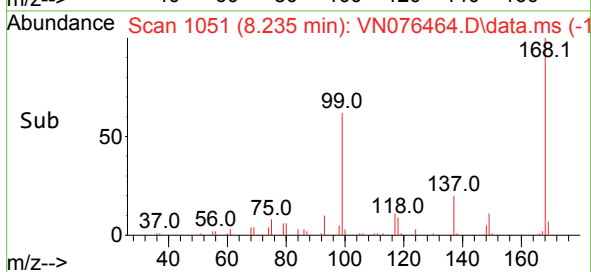
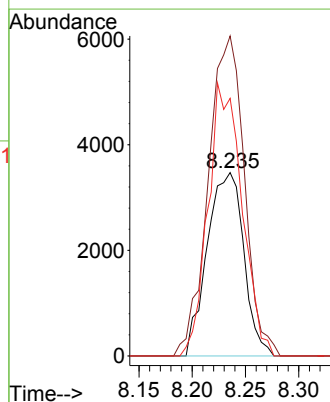
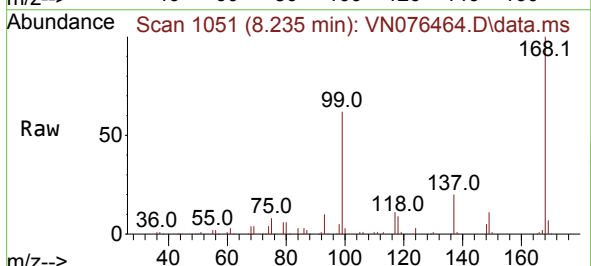


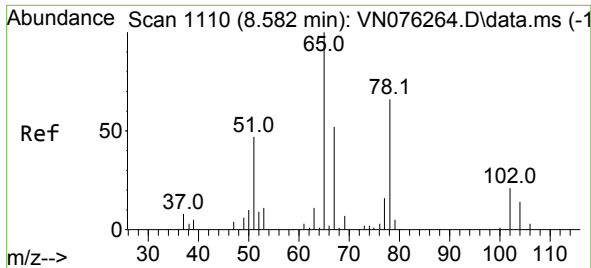
Tgt Ion: 42 Resp: 630
Ion Ratio Lower Upper
42 100
72 9.5 44.0 66.0#
71 0.0 41.1 61.7#



#31
Cyclohexane
Concen: 1.261 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.024 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 56 Resp: 8278
Ion Ratio Lower Upper
56 100
69 174.5 25.8 38.8#
84 140.4 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 55.255 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Instrument :

MSVOA_N

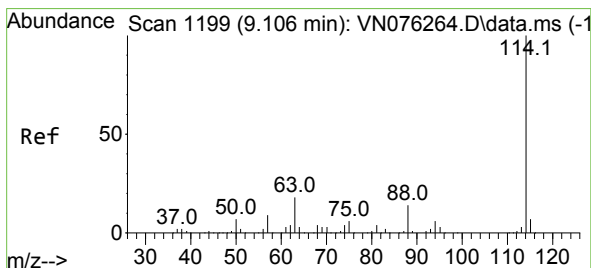
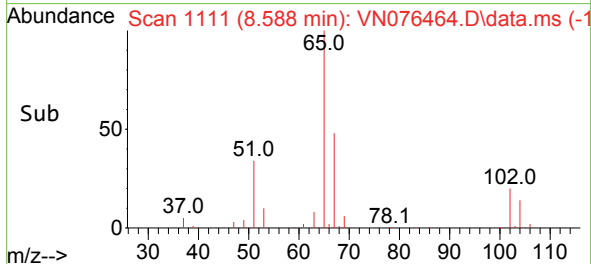
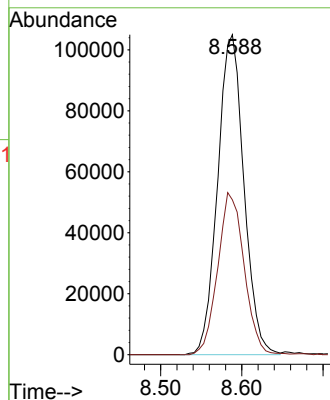
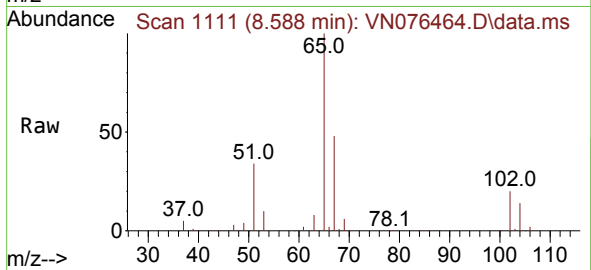
ClientSampleId :

Tgt Ion: 65 Resp: 236150

Ion Ratio Lower Upper

65 100

67 50.9 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

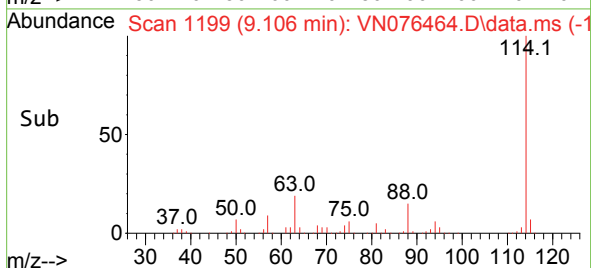
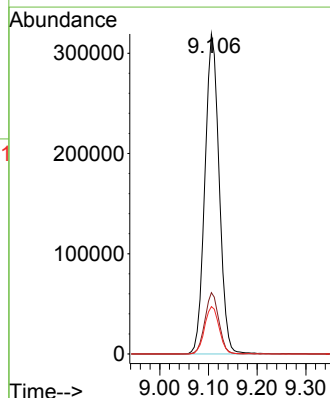
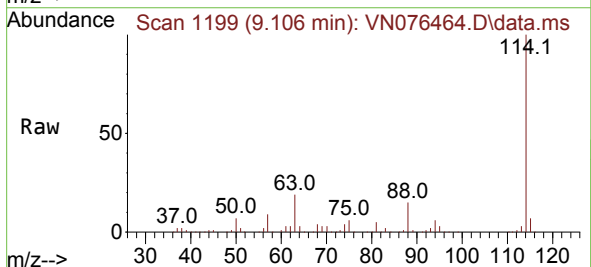
Tgt Ion: 114 Resp: 649233

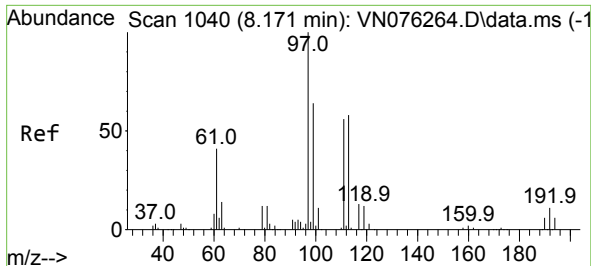
Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.8

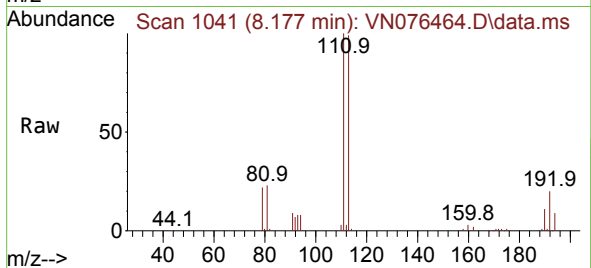
88 14.8 0.0 28.0



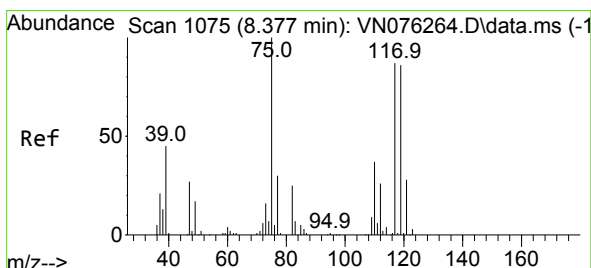
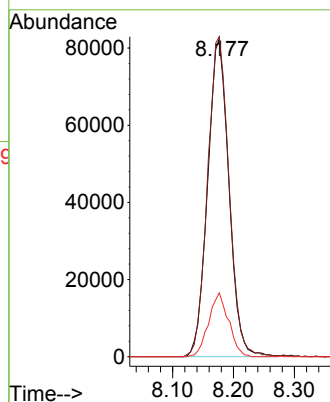
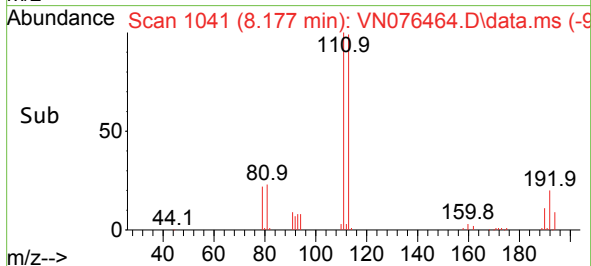


#35
Dibromofluoromethane
Concen: 49.195 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Instrument :
MSVOA_N
ClientSampleId :

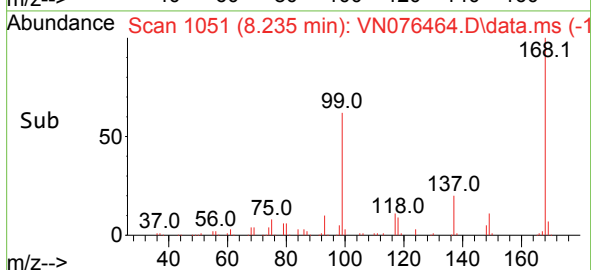
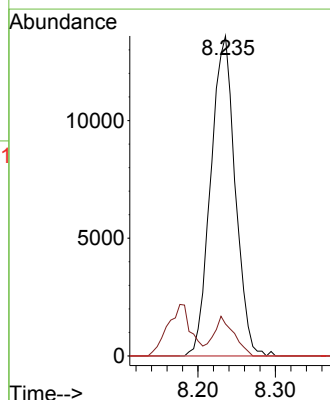
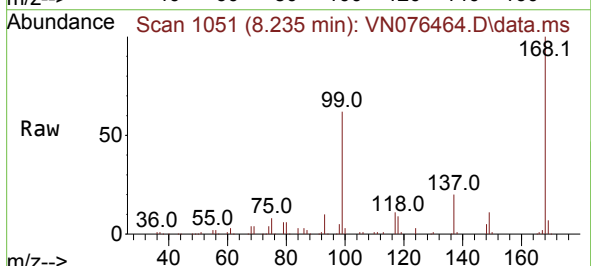


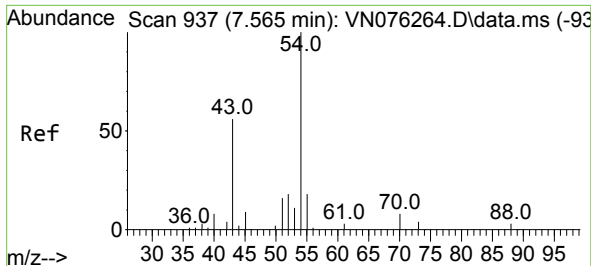
Tgt Ion:113 Resp: 199790
Ion Ratio Lower Upper
113 100
111 101.6 82.7 124.1
192 18.9 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.165 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.142 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 75 Resp: 29807
Ion Ratio Lower Upper
75 100
110 10.3 18.8 56.3#
77 0.0 25.0 37.4#

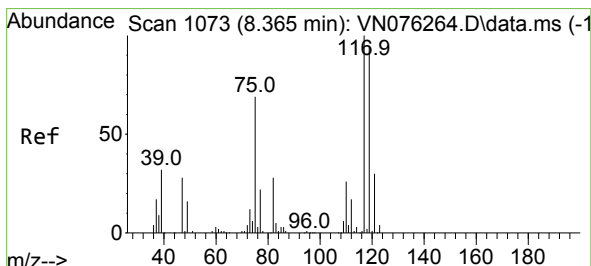
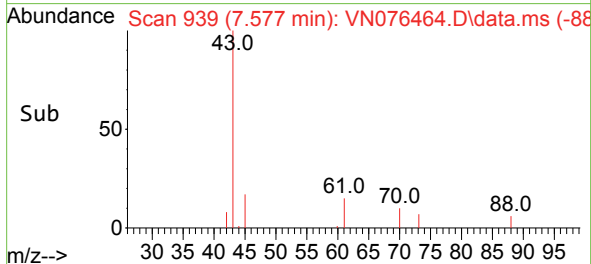
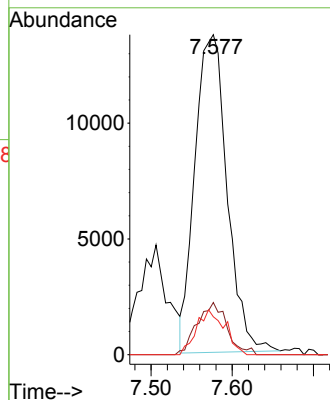
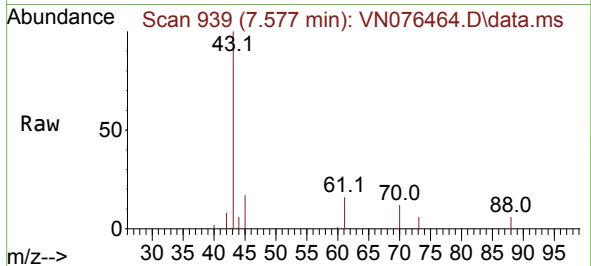




#37
Ethyl Acetate
Concen: 8.202 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

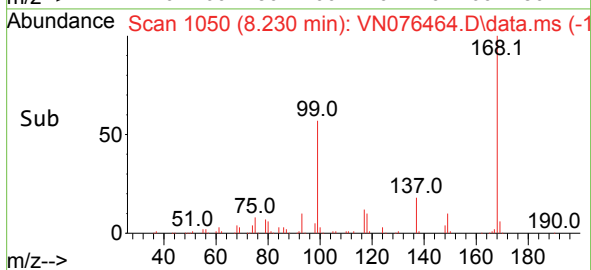
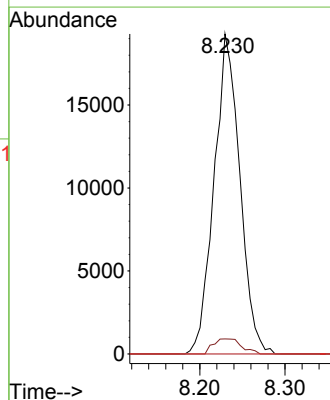
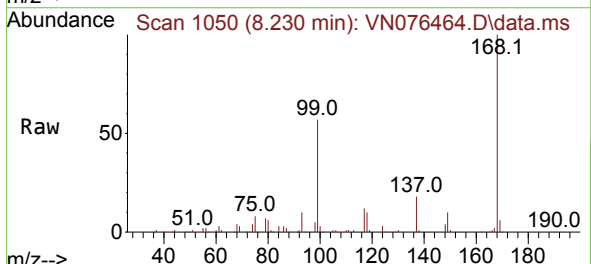
Instrument :
MSVOA_N
ClientSampleId :

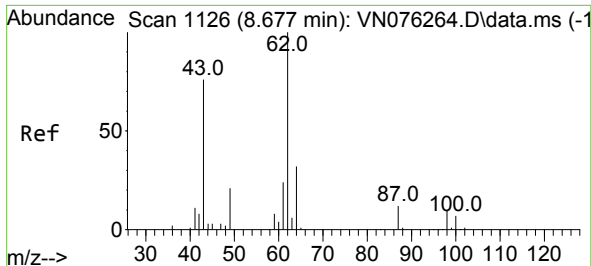
Tgt Ion: 43 Resp: 37824
Ion Ratio Lower Upper
43 100
61 15.2 11.1 16.7
70 12.5 10.0 15.0



#38
Carbon Tetrachloride
Concen: 6.283 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 117 Resp: 40434
Ion Ratio Lower Upper
117 100
119 4.7 75.4 113.0#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.276 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.017 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Instrument :

MSVOA_N

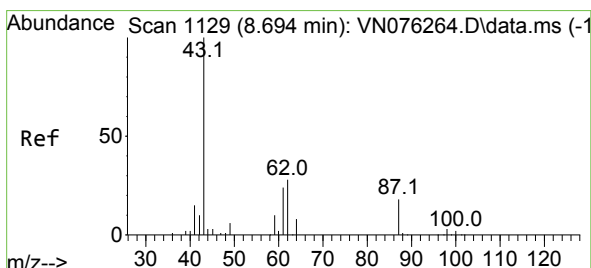
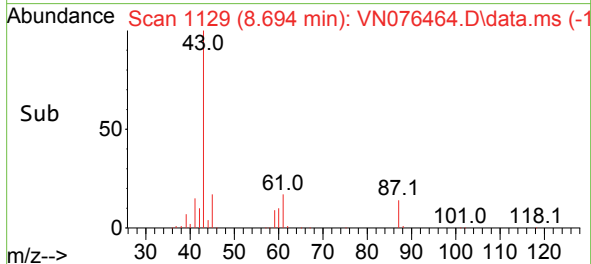
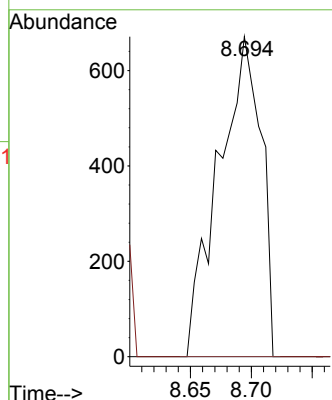
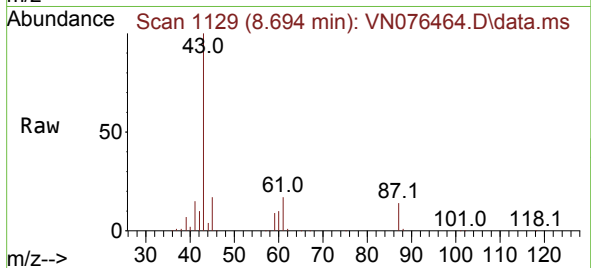
ClientSampleId :

Tgt Ion: 62 Resp: 1632

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#43

Isopropyl Acetate

Concen: 45.185 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

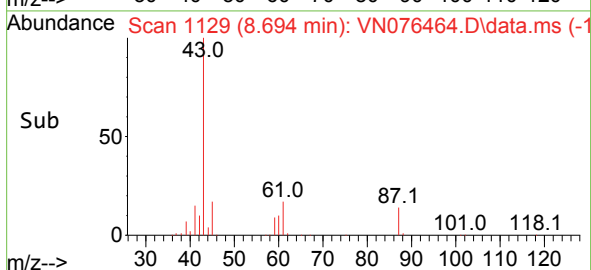
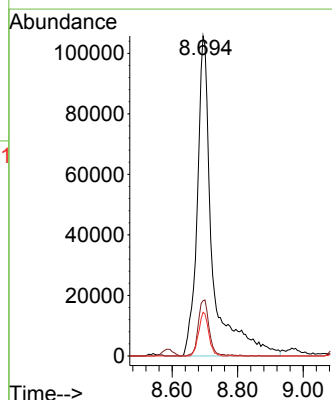
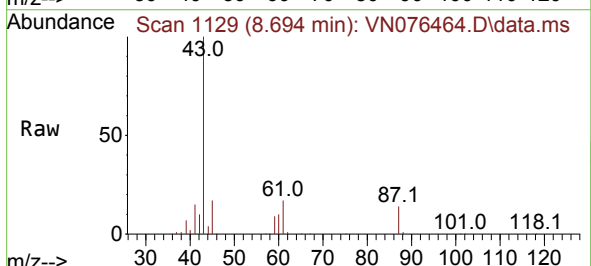
Tgt Ion: 43 Resp: 340251

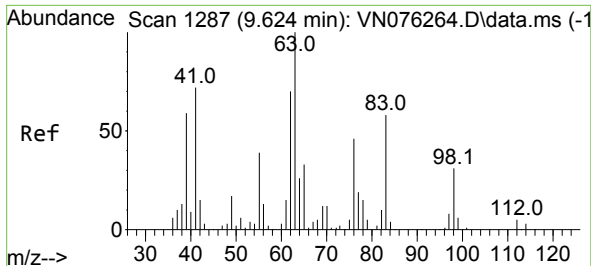
Ion Ratio Lower Upper

43 100

61 12.5 23.5 35.3#

87 9.0 13.8 20.6#





#45

1,2-Dichloropropane

Concen: 0.661 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Instrument :

MSVOA_N

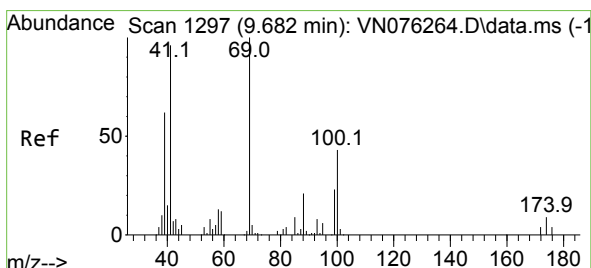
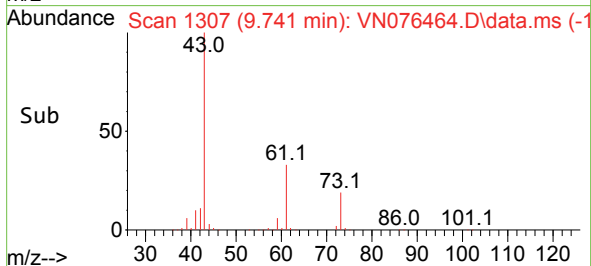
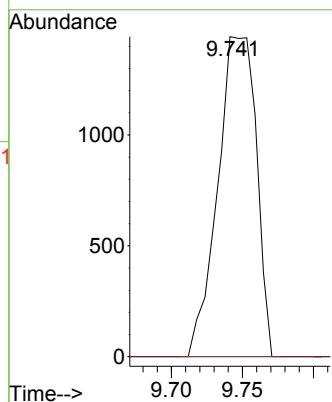
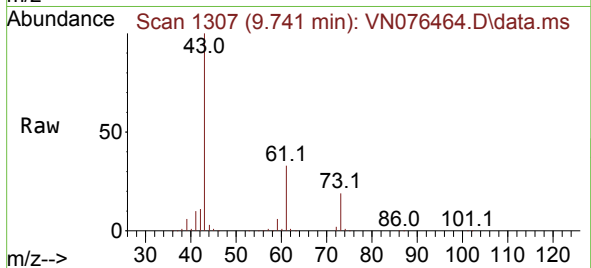
ClientSampleId :

Tgt Ion: 63 Resp: 2732

Ion Ratio Lower Upper

63 100

65 0.0 26.4 39.6#



#48

Methyl methacrylate

Concen: 1.647 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

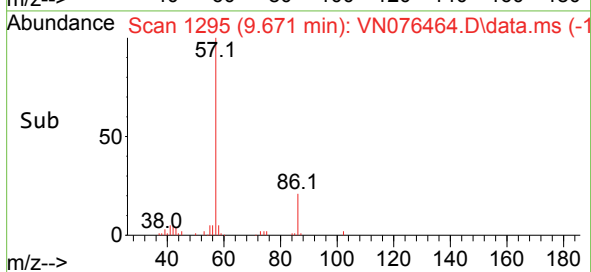
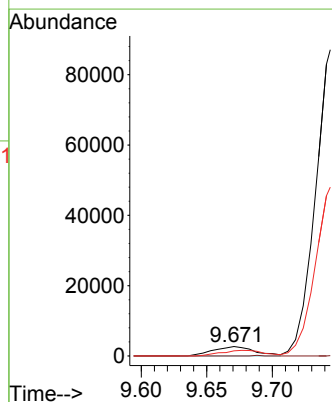
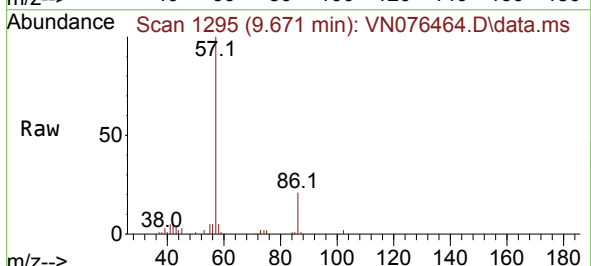
Tgt Ion: 41 Resp: 5872

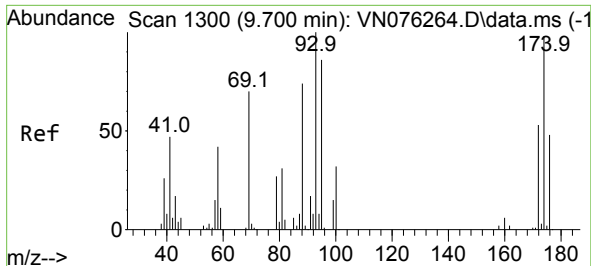
Ion Ratio Lower Upper

41 100

69 1.0 80.8 121.2#

39 61.4 54.4 81.6





#49

1,4-Dioxane

Concen: 0.771 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Instrument :

MSVOA_N

ClientSampleId :

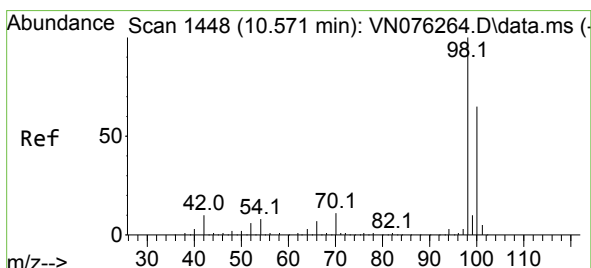
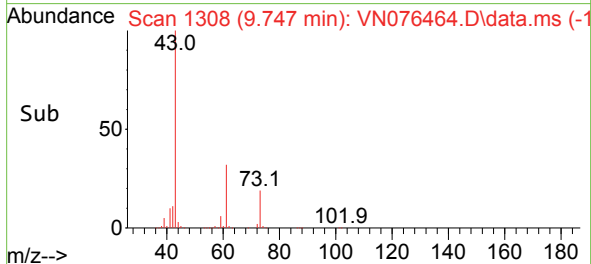
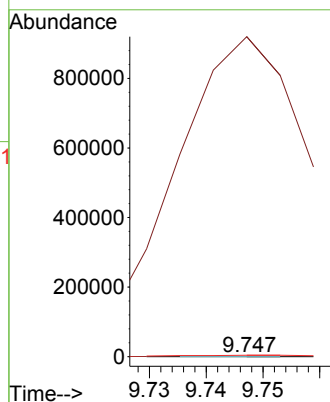
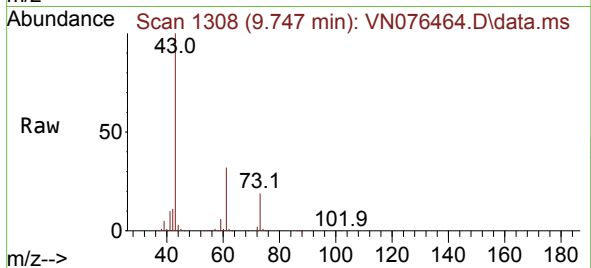
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 2866384.5 18.1 27.1#

58 14256.9 46.5 69.7#



#50

Toluene-d8

Concen: 51.093 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076464.D

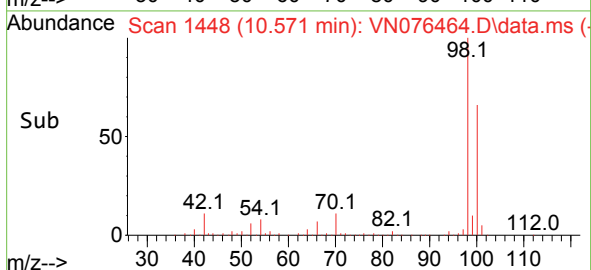
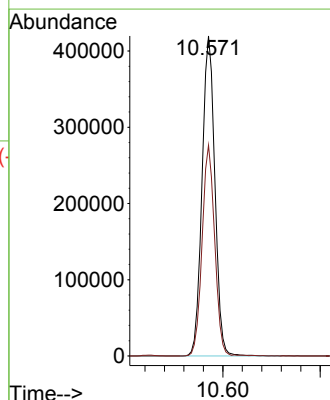
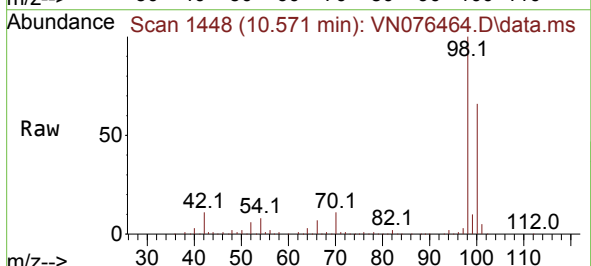
Acq: 30 Jan 2023 18:05

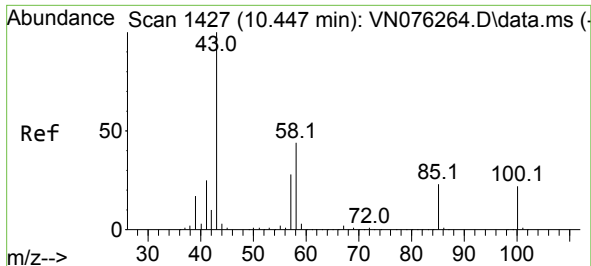
Tgt Ion: 98 Resp: 766323

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.4

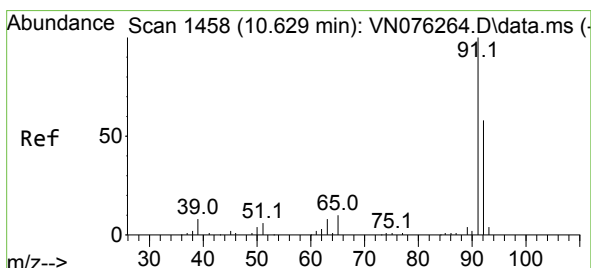
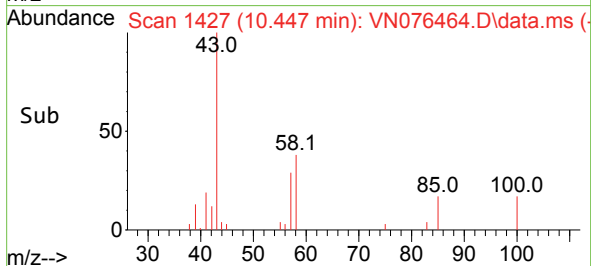
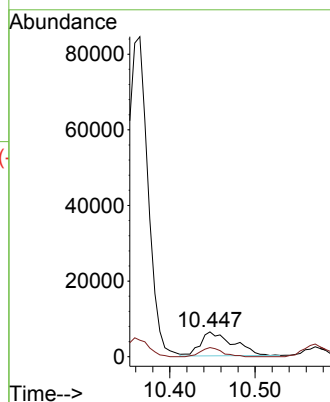
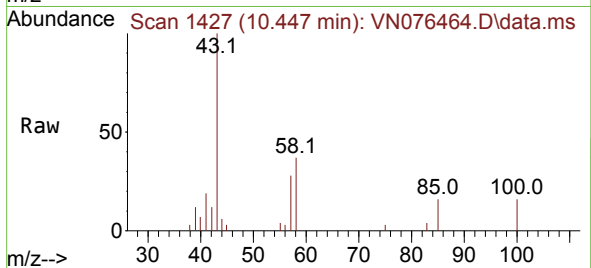




#51
4-Methyl-2-Pentanone
Concen: 3.817 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

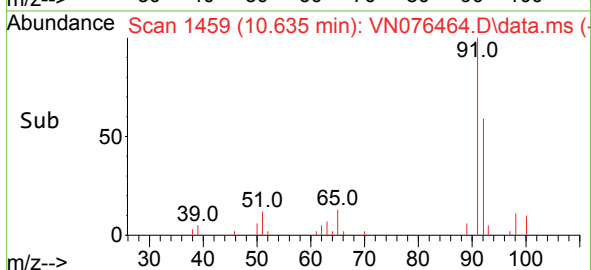
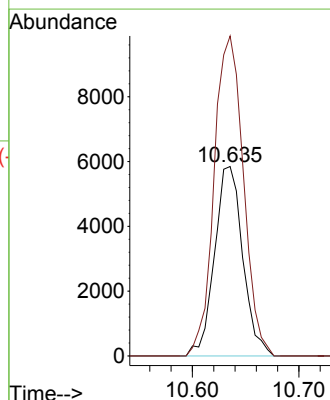
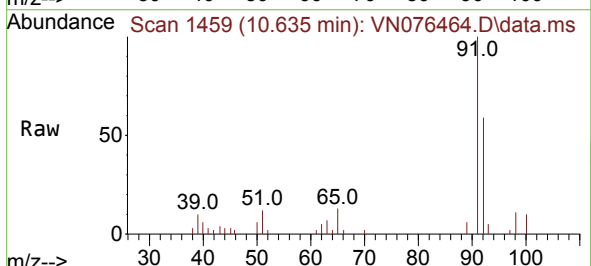
Instrument :
MSVOA_N
ClientSampleId :

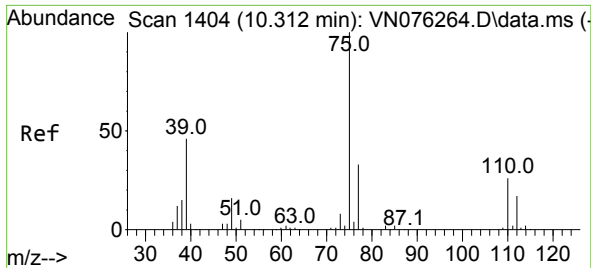
Tgt Ion: 43 Resp: 16873
Ion Ratio Lower Upper
43 100
58 25.1 35.1 52.7#



#52
Toluene
Concen: 0.931 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.006 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 92 Resp: 10743
Ion Ratio Lower Upper
92 100
91 175.5 136.6 205.0

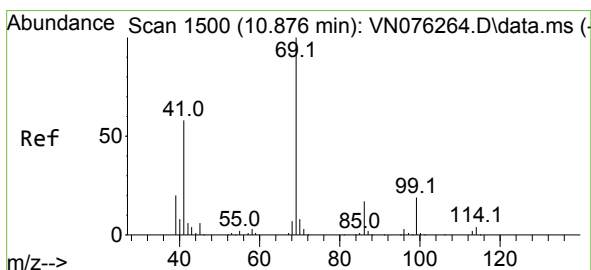
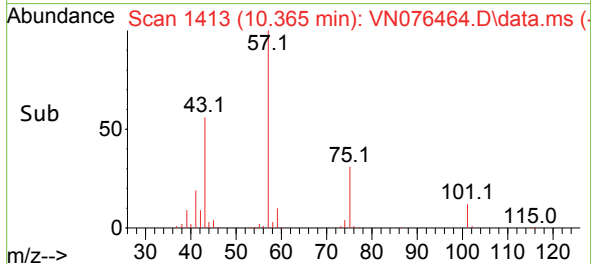
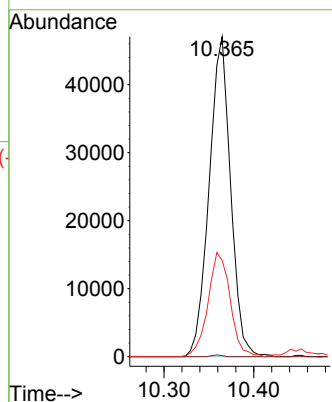
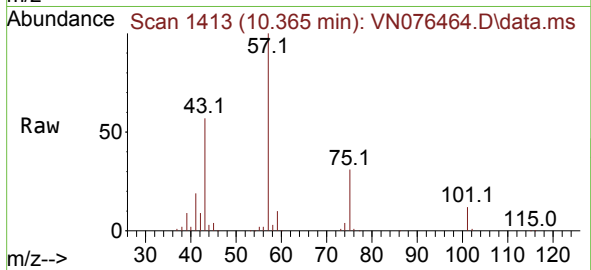




#54
 cis-1,3-Dichloropropene
 Concen: 11.772 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN076464.D
 Acq: 30 Jan 2023 18:05

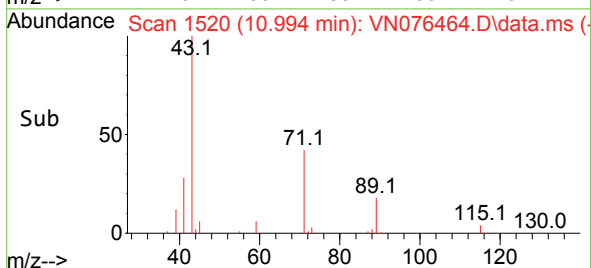
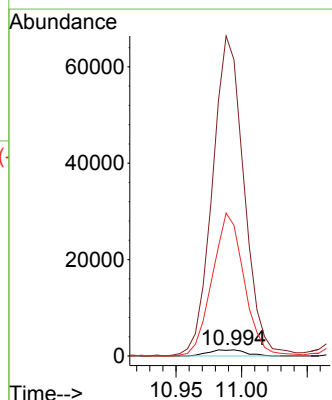
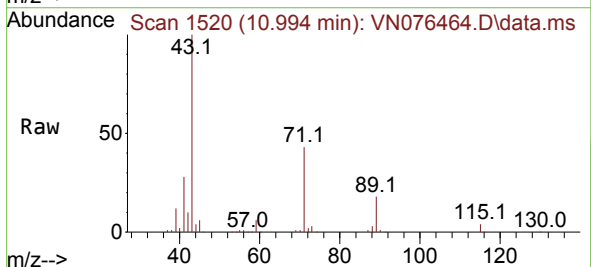
Instrument :
 MSVOA_N
 ClientSampleId :

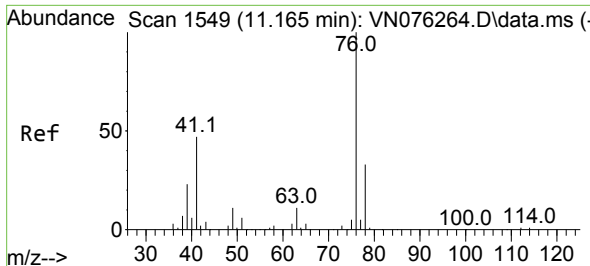
Tgt Ion: 75 Resp: 78111
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.5 39.7#
 39 30.1 37.1 55.7#



#56
 Ethyl methacrylate
 Concen: 0.440 ug/l
 RT: 10.994 min Scan# 1520
 Delta R.T. 0.118 min
 Lab File: VN076464.D
 Acq: 30 Jan 2023 18:05

Tgt Ion: 69 Resp: 2504
 Ion Ratio Lower Upper
 69 100
 41 4457.3 45.3 67.9#
 39 2008.8 29.3 43.9#





#57

1,3-Dichloropropane

Concen: 1.285 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Instrument :

MSVOA_N

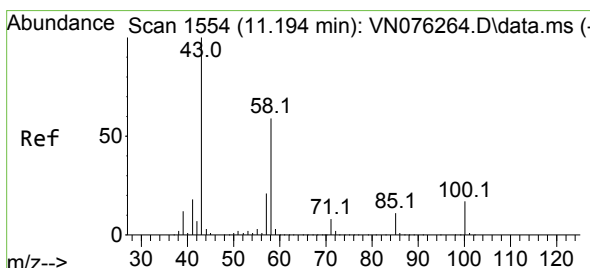
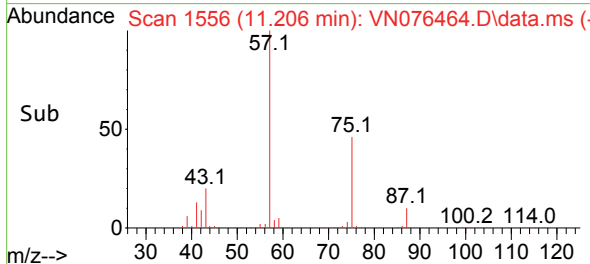
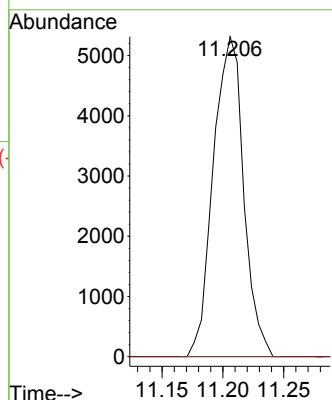
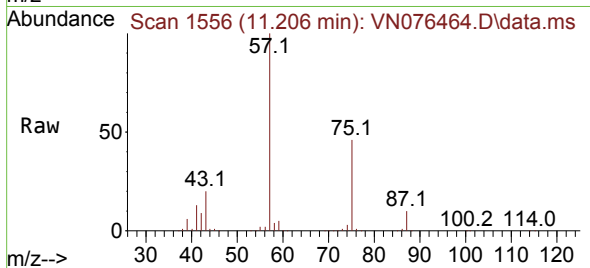
ClientSampleId :

Tgt Ion: 76 Resp: 9213

Ion Ratio Lower Upper

76 100

78 0.0 26.4 39.6#



#59

2-Hexanone

Concen: 49.927 ug/l

RT: 11.176 min Scan# 1551

Delta R.T. -0.018 min

Lab File: VN076464.D

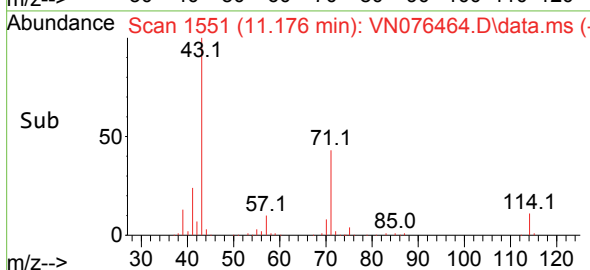
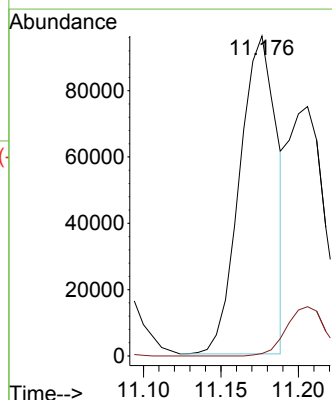
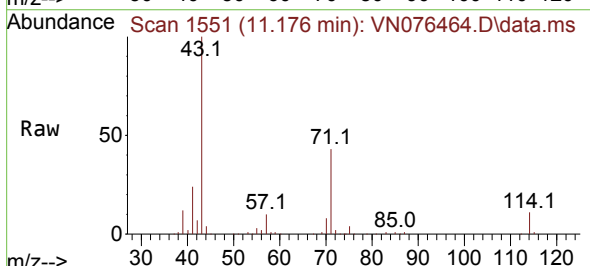
Acq: 30 Jan 2023 18:05

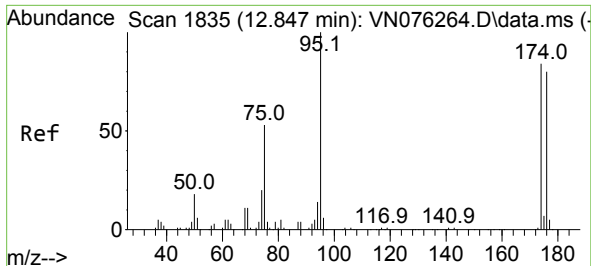
Tgt Ion: 43 Resp: 159932

Ion Ratio Lower Upper

43 100

58 0.0 30.1 90.3#

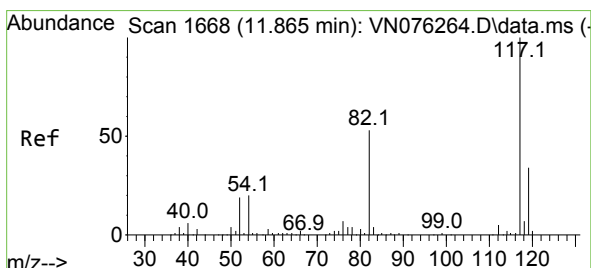
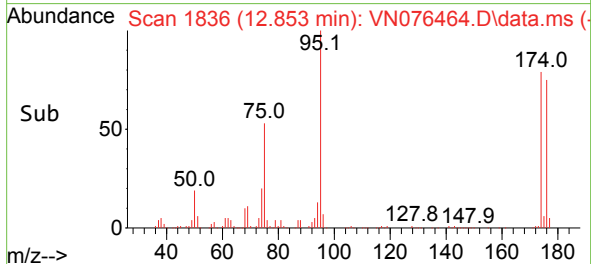
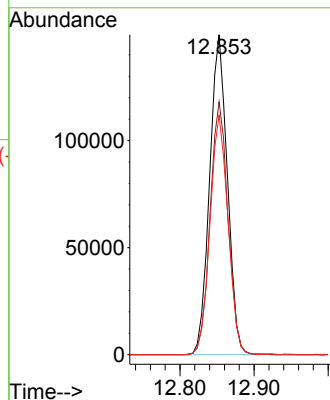
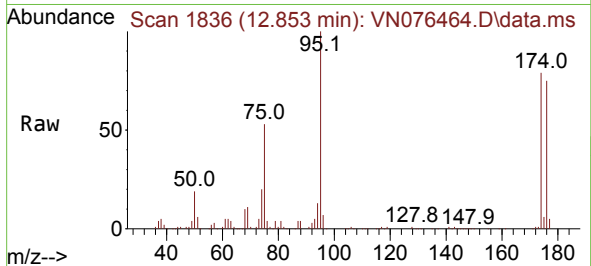




#62
4-Bromofluorobenzene
Concen: 50.727 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

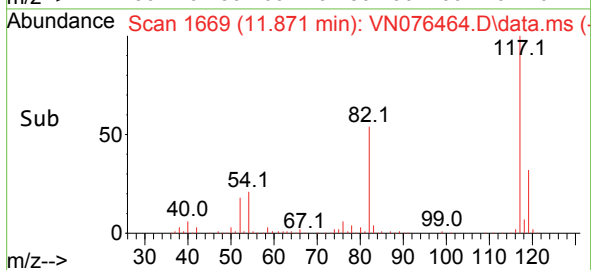
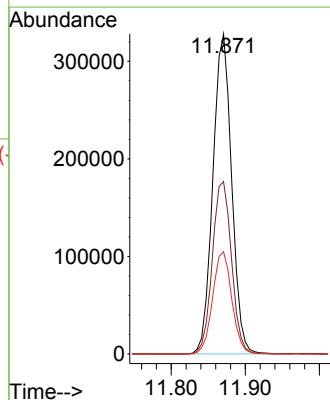
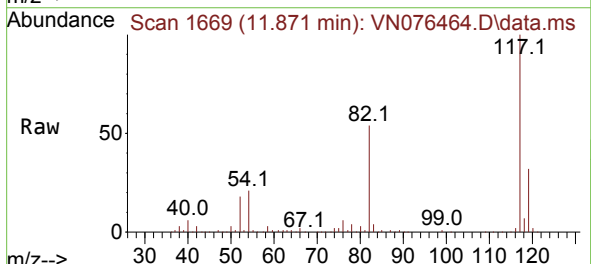
Instrument :
MSVOA_N
ClientSampleId :

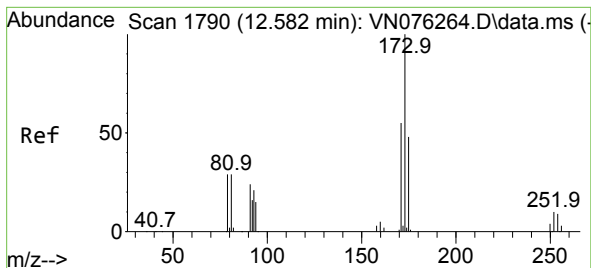
Tgt Ion: 95 Resp: 248377
Ion Ratio Lower Upper
95 100
174 79.6 0.0 174.6
176 75.9 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 117 Resp: 577305
Ion Ratio Lower Upper
117 100
82 53.8 42.2 63.2
119 32.0 26.9 40.3





#71

Bromoform

Concen: 0.500 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

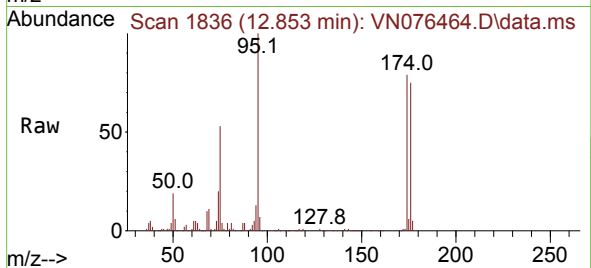
Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

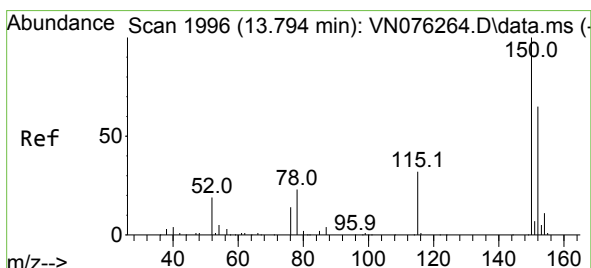
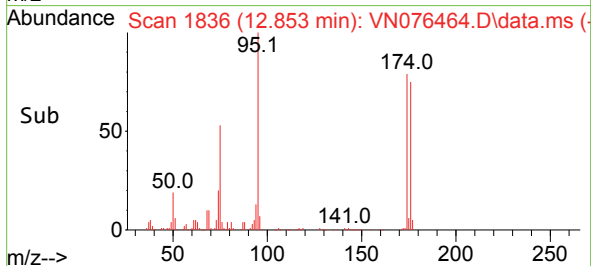
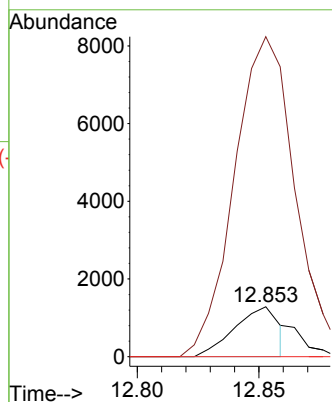
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	1640
Ion Ratio	Lower	Upper	
173	100		
175	694.7	24.1	72.4#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

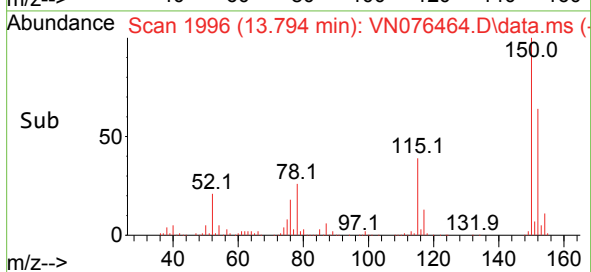
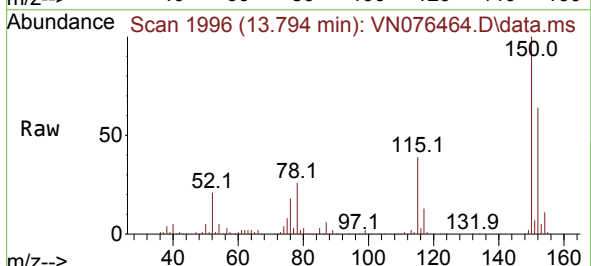
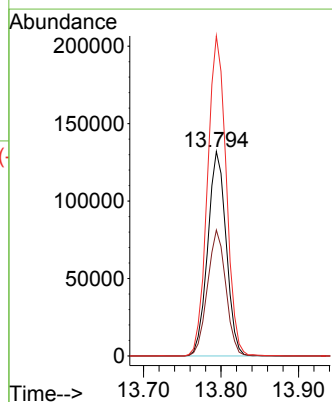
RT: 13.794 min Scan# 1996

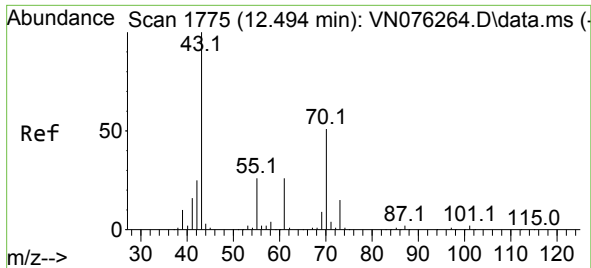
Delta R.T. -0.000 min

Lab File: VN076464.D

Acq: 30 Jan 2023 18:05

Tgt Ion:	152	Resp:	218150
Ion Ratio	Lower	Upper	
152	100		
115	61.3	29.6	88.9
150	158.8	0.0	351.4

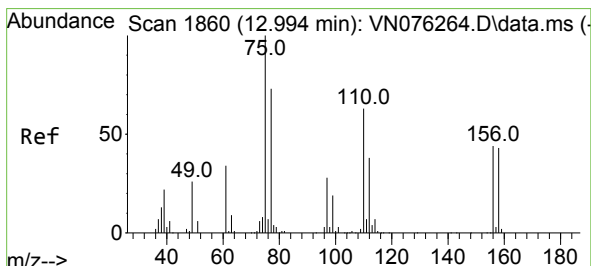
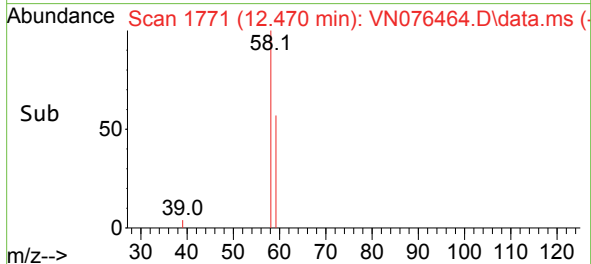
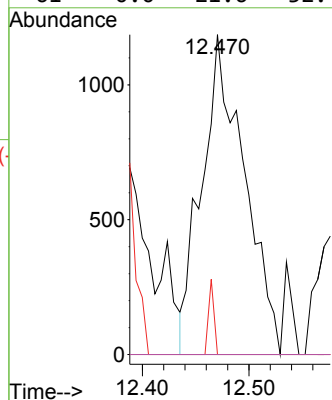
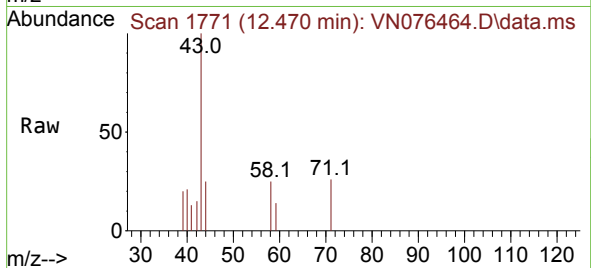




#74
N-amy1 acetate
Concen: 0.676 ug/l
RT: 12.470 min Scan# 1771
Delta R.T. -0.024 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

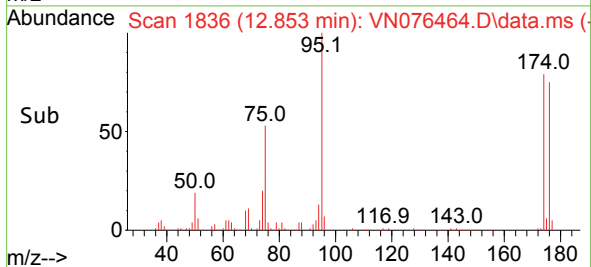
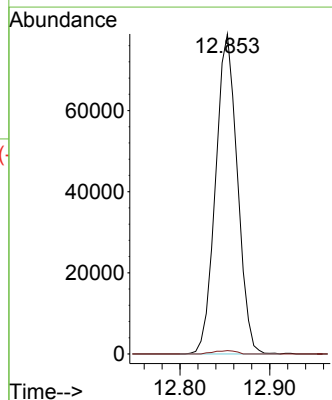
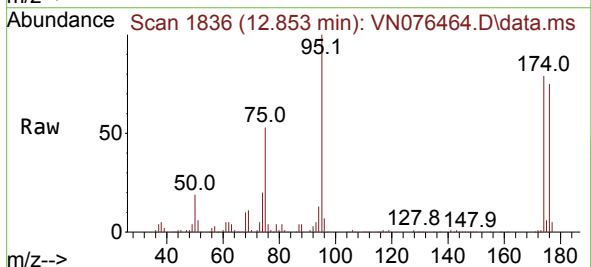
Instrument :
MSVOA_N
ClientSampleId :

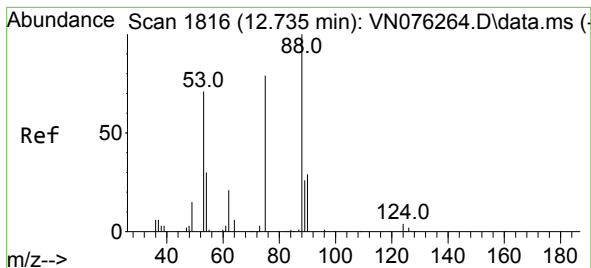
Tgt Ion: 43	Resp: 3280
Ion Ratio	Lower Upper
43 100	
70 0.0	41.2 61.8#
55 3.0	21.0 31.6#
61 0.0	21.6 32.4#



#76
1,2,3-Trichloropropane
Concen: 33.160 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion: 75	Resp: 133051
Ion Ratio	Lower Upper
75 100	
77 1.1	75.2 225.6#

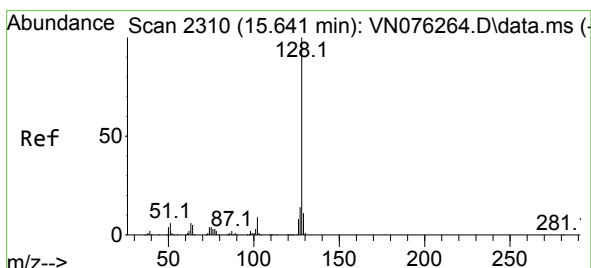
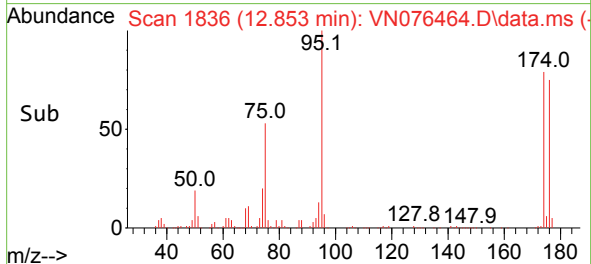
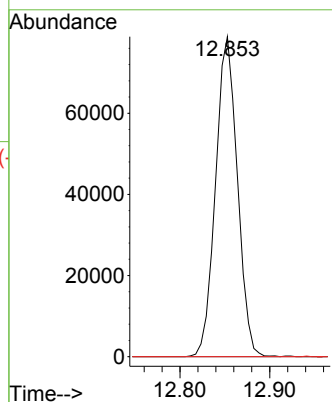
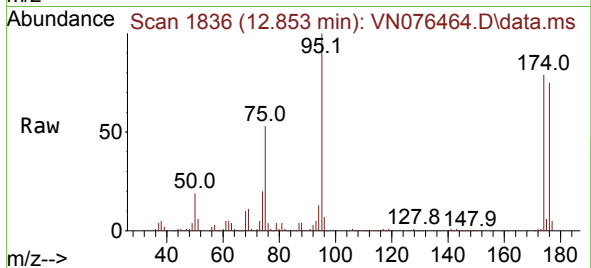




#81
trans-1,4-Dichloro-2-butene
Concen: 101.478 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 133051
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#



#95
Naphthalene
Concen: 1.969 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN076464.D
Acq: 30 Jan 2023 18:05

Tgt Ion:128 Resp: 1530
Ion Ratio Lower Upper
128 100
127 4.3 10.3 15.5#
129 0.0 8.6 13.0#

