

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122922\
 Data File : VN076048.D
 Acq On : 29 Dec 2022 14:54
 Operator : JC\MD
 Sample : N6228-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Dec 30 05:33:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

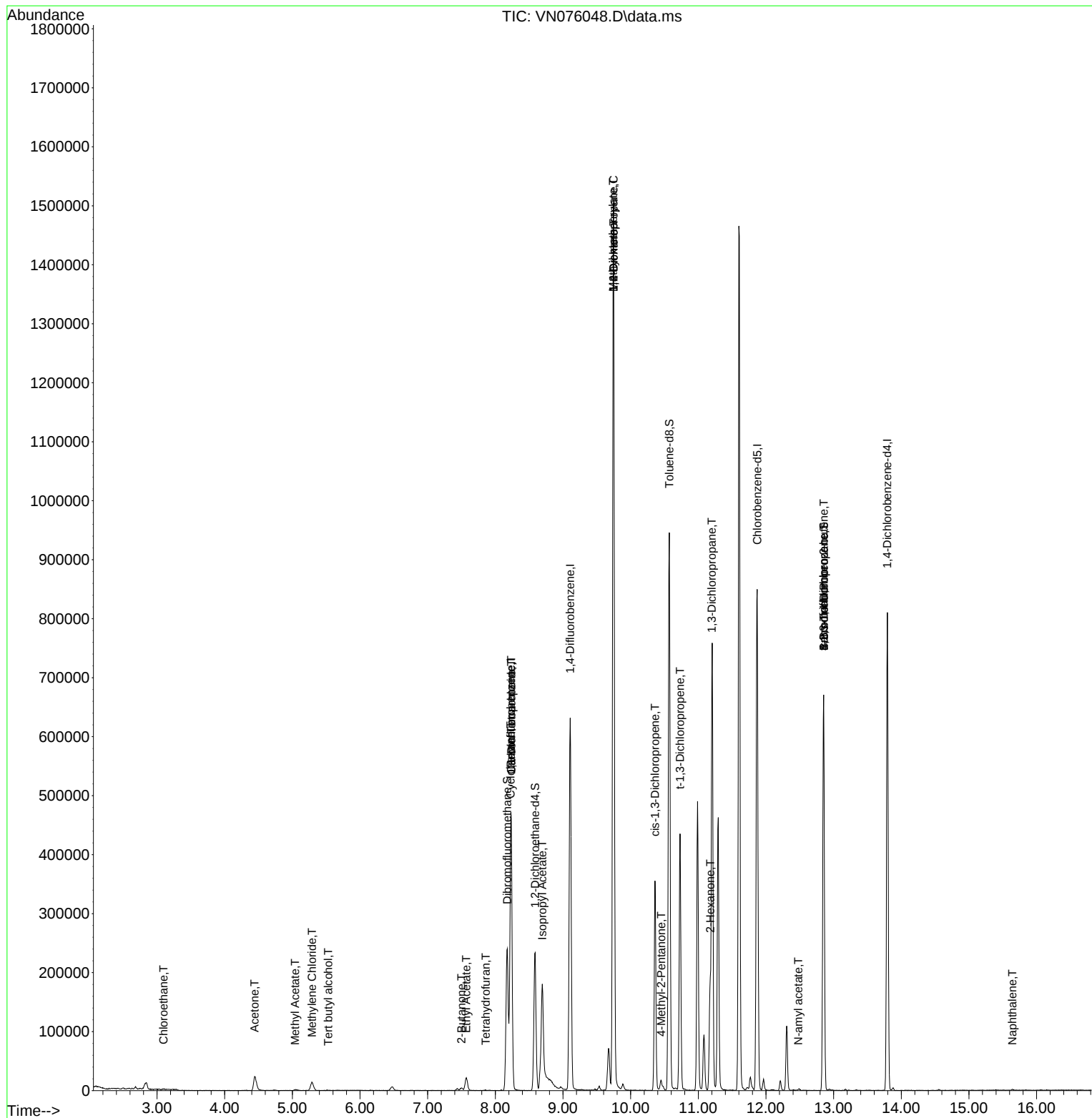
Internal Standards						
1) Pentafluorobenzene	8.229	168	372373	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	596986	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	535585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	225638	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	185754	45.853	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.700%		
35) Dibromofluoromethane	8.177	113	176688	47.792	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.580%		
50) Toluene-d8	10.570	98	680715	49.246	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.500%		
62) 4-Bromofluorobenzene	12.853	95	224349	49.003	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.000%		
Target Compounds					Qvalue	
6) Chloroethane	3.095	64	681	0.234	ug/l #	44
11) Tert butyl alcohol	5.530	59	547	0.954	ug/l #	72
16) Acetone	4.441	43	46444	33.258	ug/l	95
18) Methyl Acetate	5.041	43	3353	0.812	ug/l #	71
20) Methylene Chloride	5.288	84	12056	2.620	ug/l	88
25) 2-Butanone	7.500	43	6994	3.577	ug/l	98
29) Tetrahydrofuran	7.859	42	279	0.228	ug/l #	66
31) Cyclohexane	8.224	56	7065	1.218	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	26620	5.420	ug/l #	49
37) Ethyl Acetate	7.571	43	33084	8.387	ug/l	98
38) Carbon Tetrachloride	8.235	117	35680	6.491	ug/l #	19
43) Isopropyl Acetate	8.694	43	234025	35.963	ug/l #	78
45) 1,2-Dichloropropane	9.747	63	1986	0.539	ug/l #	43
48) Methyl methacrylate	9.741	41	131646	44.917	ug/l #	33
49) 1,4-Dioxane	9.747	88	182	2.526	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	16147	4.103	ug/l #	76
53) t-1,3-Dichloropropene	10.729	75	1291	0.246	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	70958	12.310	ug/l #	63
57) 1,3-Dichloropropane	11.200	76	9016	1.419	ug/l #	42
59) 2-Hexanone	11.176	43	128475	44.766	ug/l #	20
71) Bromoform	12.853	173	2034	0.687	ug/l #	1
74) N-amyl acetate	12.476	43	1550	0.324	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	114048	25.075	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	114048	90.257	ug/l #	12
95) Naphthalene	15.641	128	2332	2.359	ug/l #	86

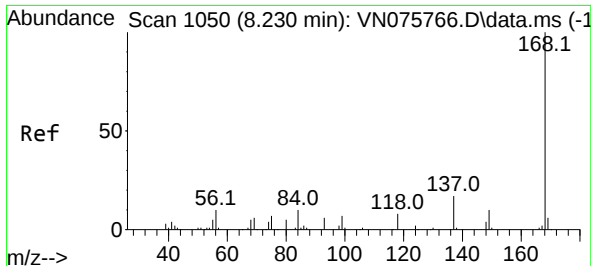
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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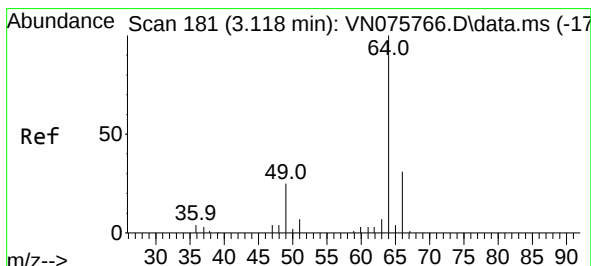
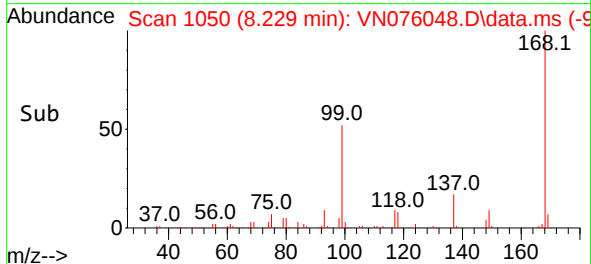
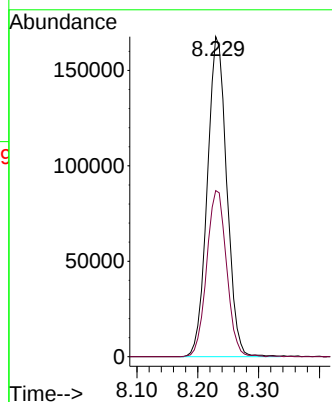
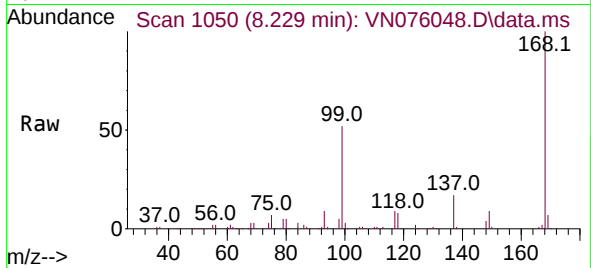




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.001 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

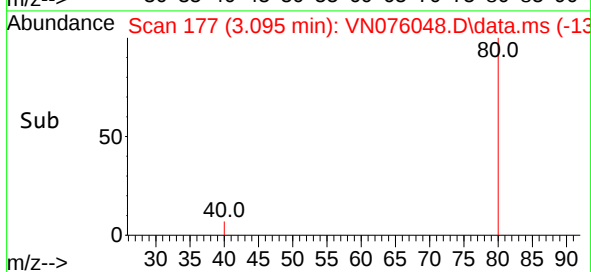
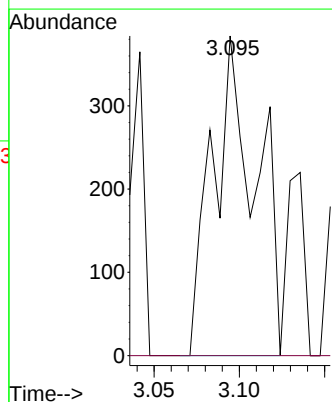
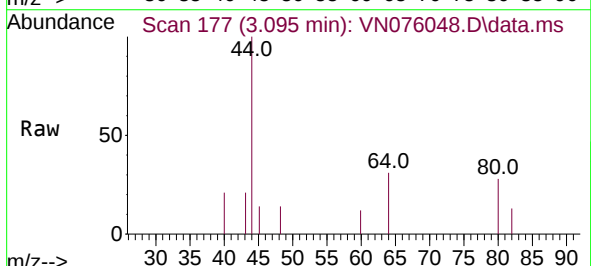
Instrument :
MSVOA_N
ClientSampleId :
TP-4

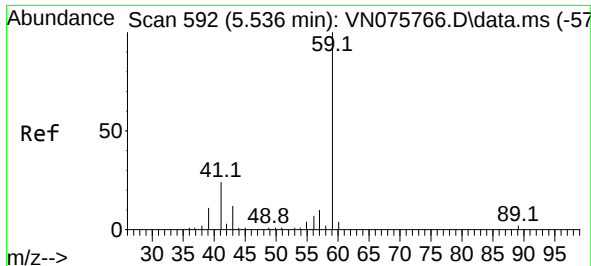
Tgt Ion:168 Resp: 372373
Ion Ratio Lower Upper
168 100
99 51.9 44.2 66.4



#6
Chloroethane
Concen: 0.234 ug/l
RT: 3.095 min Scan# 177
Delta R.T. -0.024 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 64 Resp: 681
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

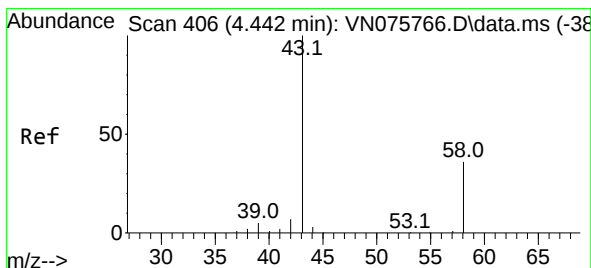
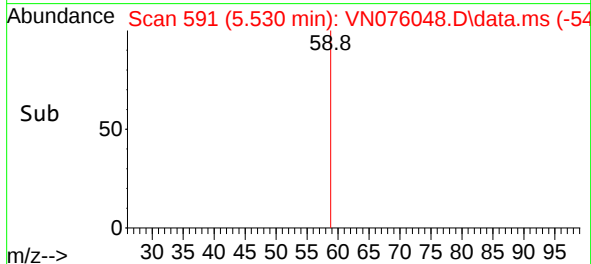
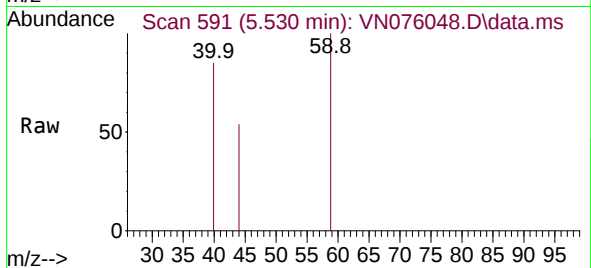




#11
Tert butyl alcohol
Concen: 0.954 ug/l
RT: 5.530 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

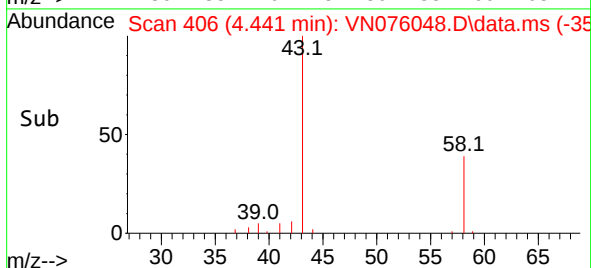
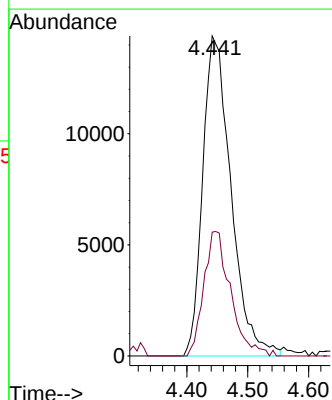
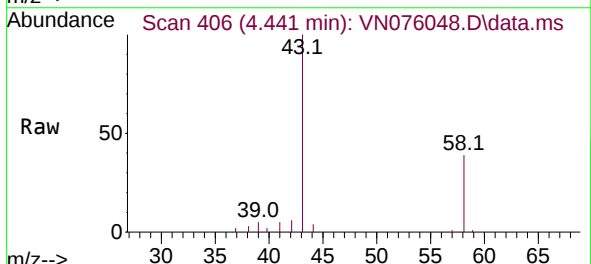
Instrument :
MSVOA_N
ClientSampleId :
TP-4

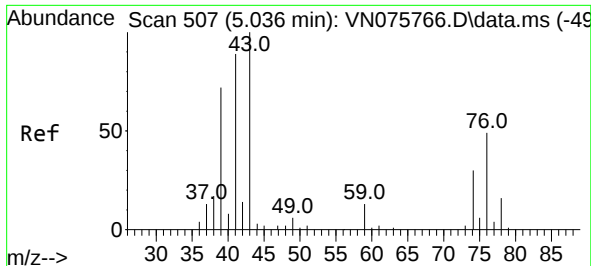
Tgt Ion: 59 Resp: 547
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 33.258 ug/l
RT: 4.441 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 43 Resp: 46444
Ion Ratio Lower Upper
43 100
58 38.7 28.6 43.0

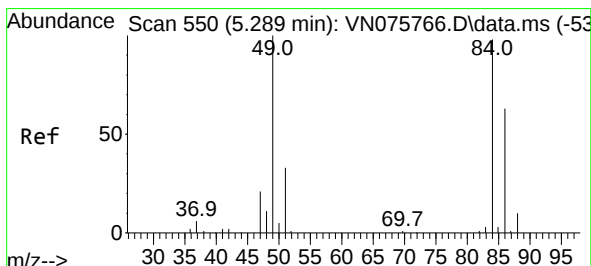
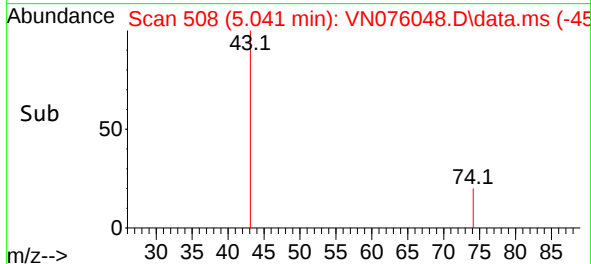
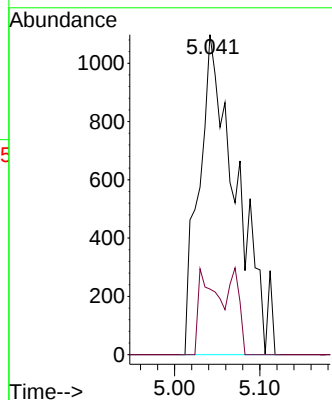
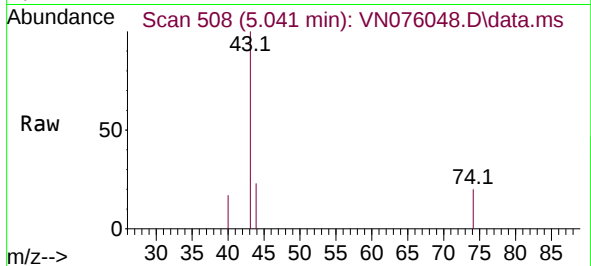




#18
Methyl Acetate
Concen: 0.812 ug/l
RT: 5.041 min Scan# 507
Delta R.T. 0.006 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

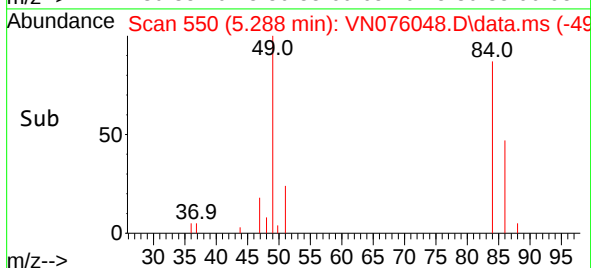
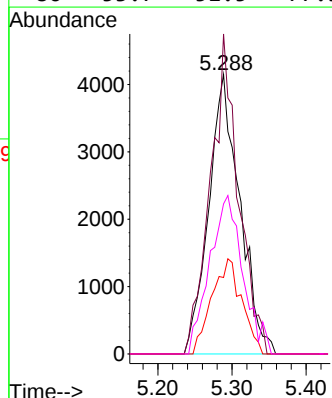
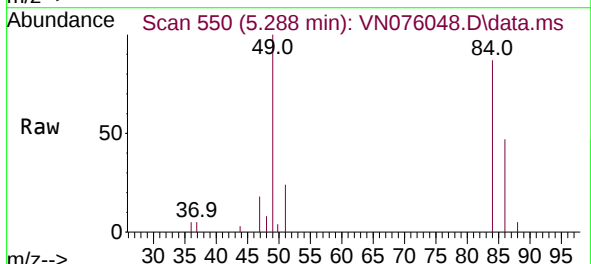
Instrument :
MSVOA_N
ClientSampleId :
TP-4

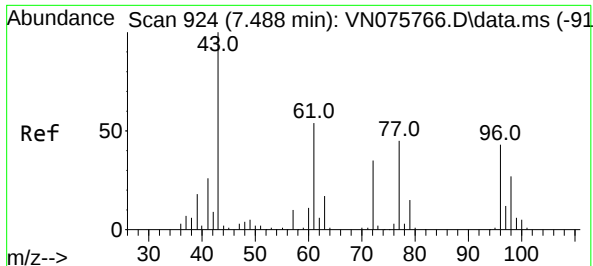
Tgt Ion: 43 Resp: 3353
Ion Ratio Lower Upper
43 100
74 13.8 23.6 35.4#



#20
Methylene Chloride
Concen: 2.620 ug/l
RT: 5.288 min Scan# 550
Delta R.T. -0.001 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 84 Resp: 12056
Ion Ratio Lower Upper
84 100
49 114.5 81.8 122.6
51 27.4 26.7 40.1
86 53.7 51.5 77.3





#25

2-Butanone

Concen: 3.577 ug/l

RT: 7.500 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

Instrument :

MSVOA_N

ClientSampleId :

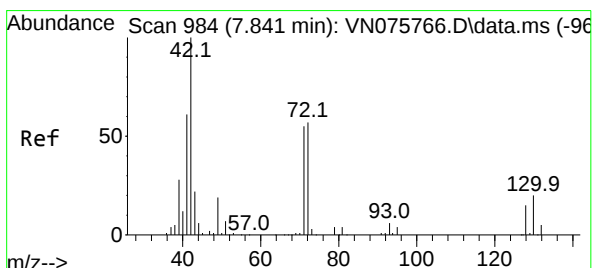
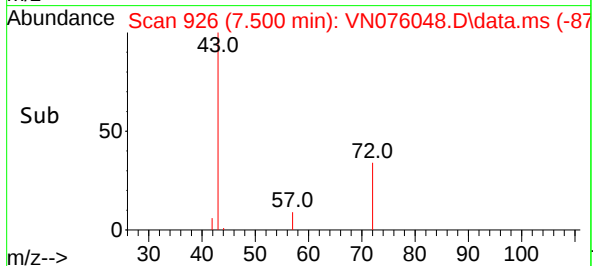
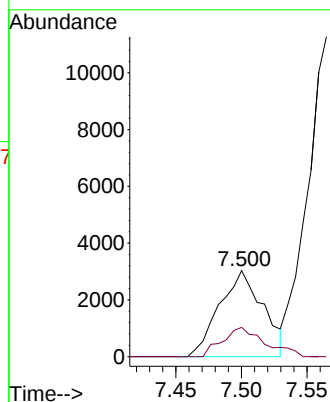
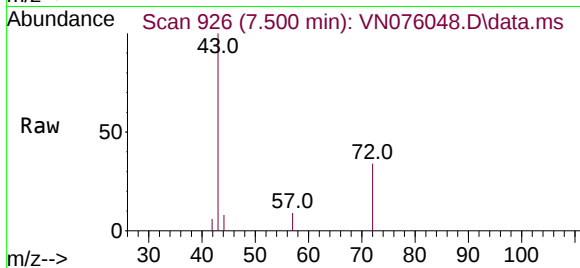
TP-4

Tgt Ion: 43 Resp: 6994

Ion Ratio Lower Upper

43 100

72 34.0 28.0 42.0



#29

Tetrahydrofuran

Concen: 0.228 ug/l

RT: 7.859 min Scan# 987

Delta R.T. 0.018 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

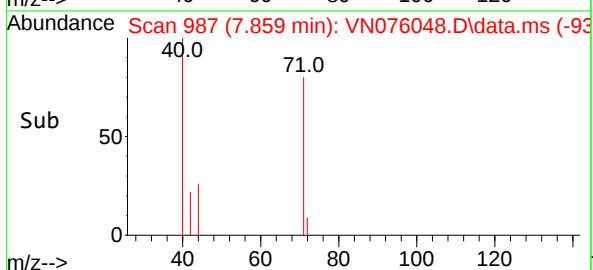
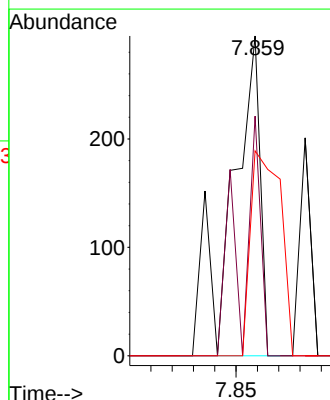
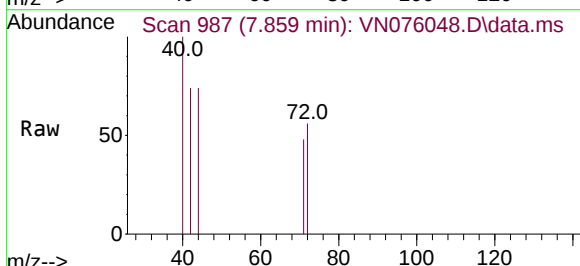
Tgt Ion: 42 Resp: 279

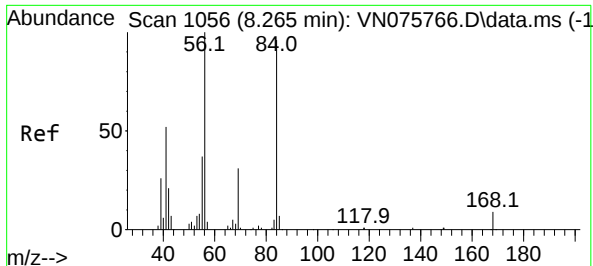
Ion Ratio Lower Upper

42 100

72 21.9 44.5 66.7#

71 66.3 41.0 61.6#

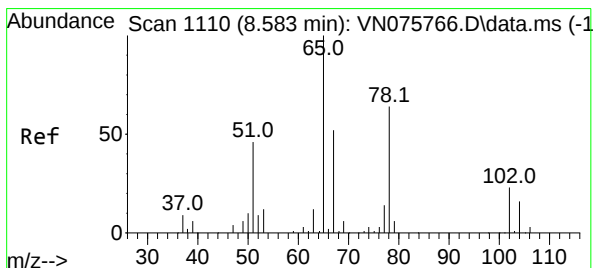
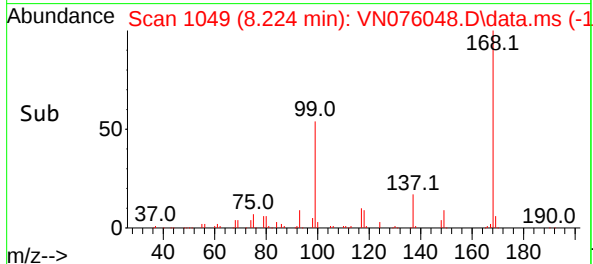
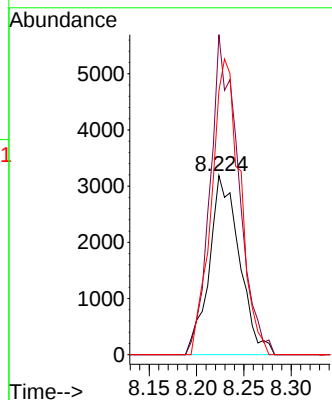
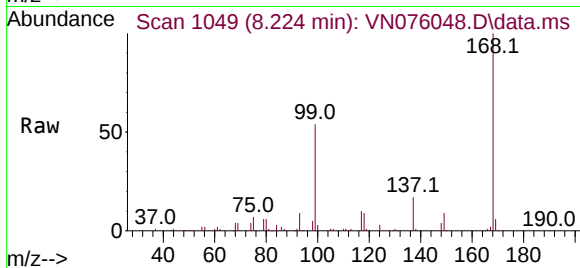




#31
Cyclohexane
Concen: 1.218 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.041 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

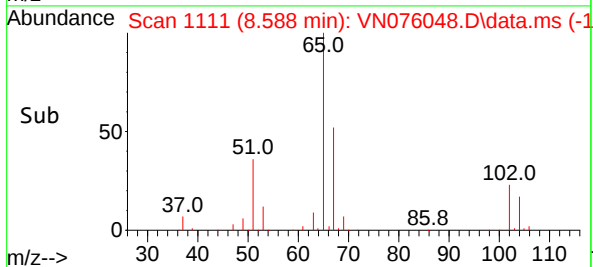
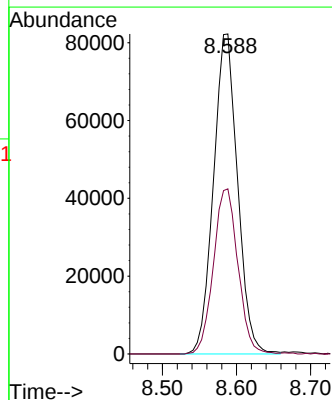
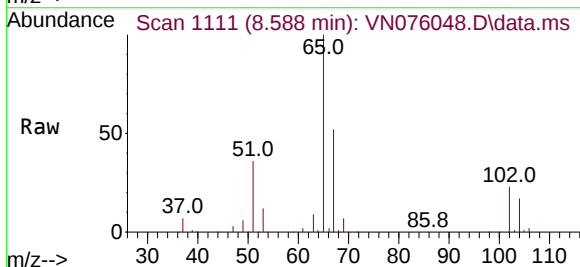
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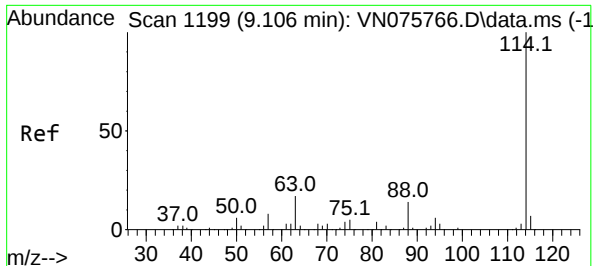
Tgt Ion: 56 Resp: 7065
Ion Ratio Lower Upper
56 100
69 178.7 24.7 37.1#
84 147.3 76.5 114.7#



#33
1,2-Dichloroethane-d4
Concen: 45.853 ug/l
RT: 8.588 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 65 Resp: 185754
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

Instrument :

MSVOA_N

ClientSampleId :

TP-4

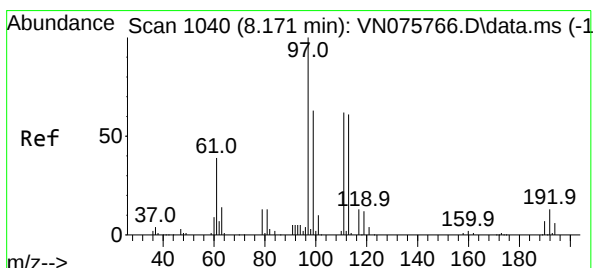
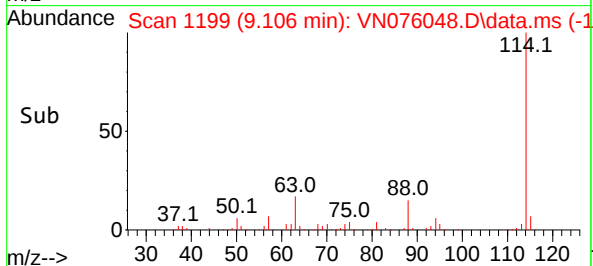
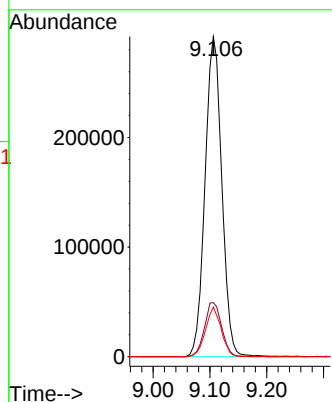
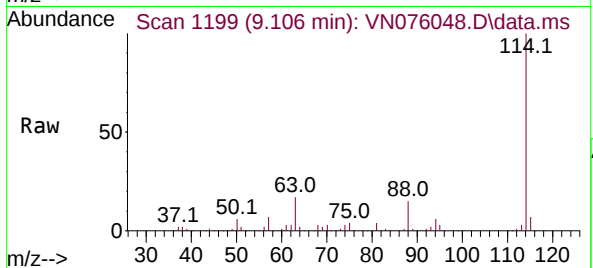
Tgt Ion:114 Resp: 596986

Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.4

88 15.5 0.0 28.8



#35

Dibromofluoromethane

Concen: 47.792 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

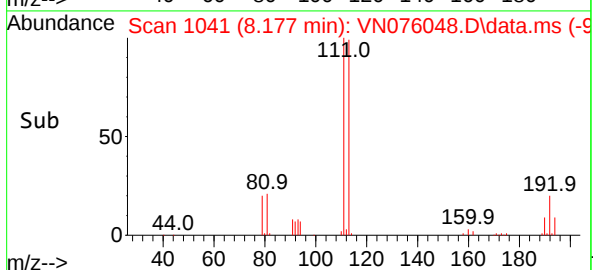
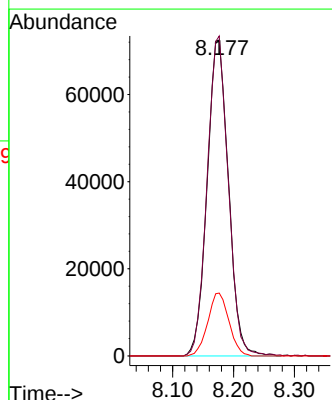
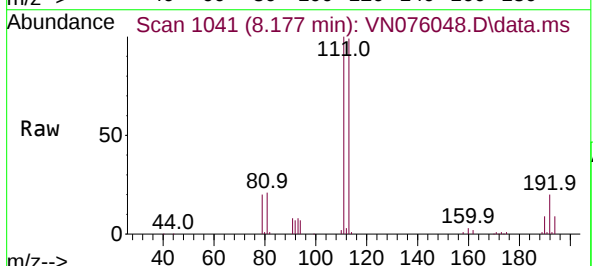
Tgt Ion:113 Resp: 176688

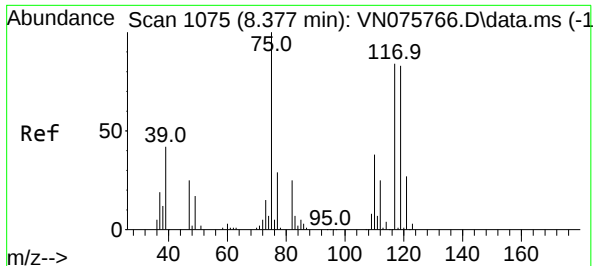
Ion Ratio Lower Upper

113 100

111 100.1 83.4 125.2

192 19.7 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.420 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

Instrument :

MSVOA_N

ClientSampleId :

TP-4

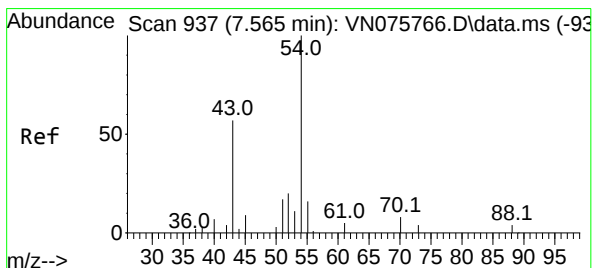
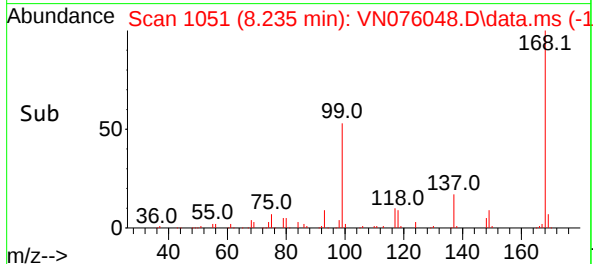
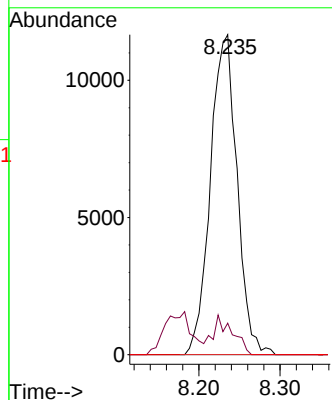
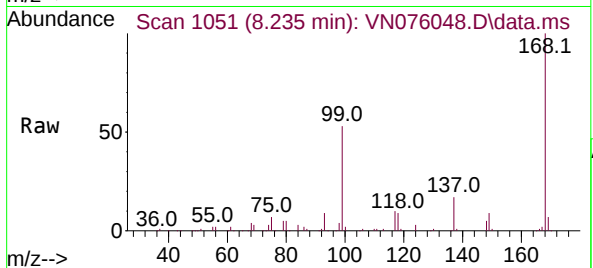
Tgt Ion: 75 Resp: 26620

Ion Ratio Lower Upper

75 100

110 9.1 18.8 56.4#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 8.387 ug/l

RT: 7.571 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

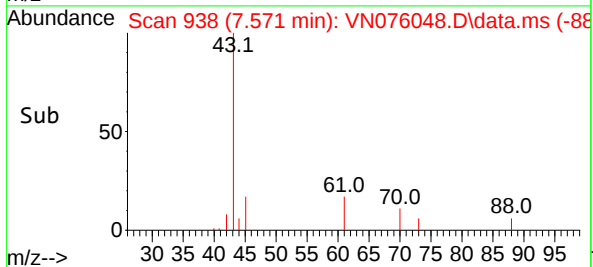
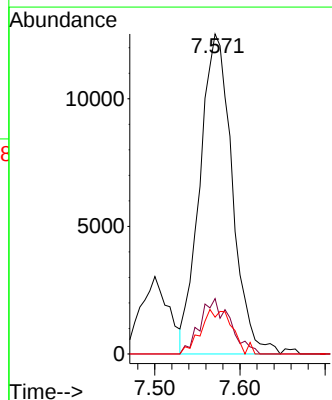
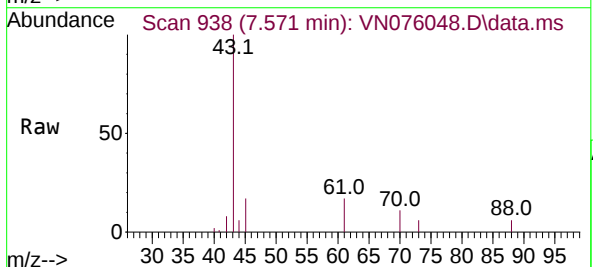
Tgt Ion: 43 Resp: 33084

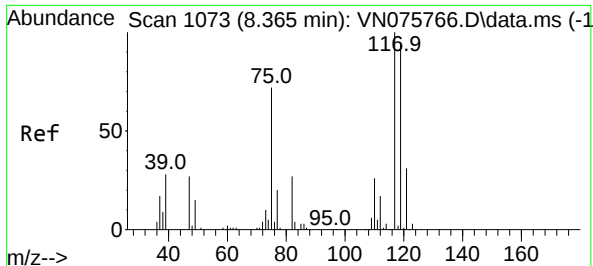
Ion Ratio Lower Upper

43 100

61 16.2 13.0 19.4

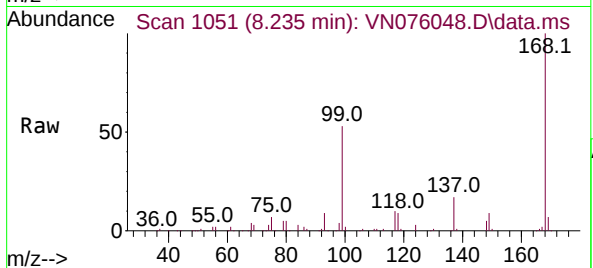
70 13.6 9.4 14.0



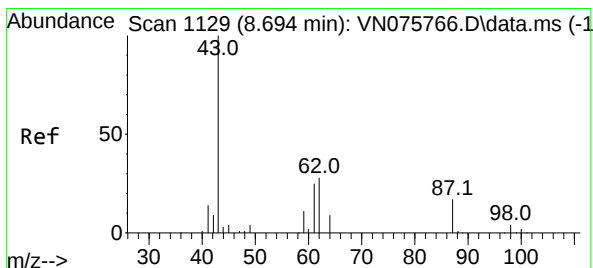
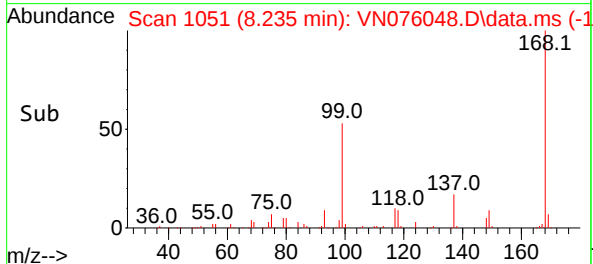
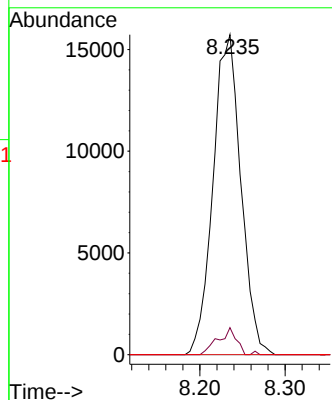


#38
Carbon Tetrachloride
Concen: 6.491 ug/l
RT: 8.235 min Scan# 11051
Delta R.T. -0.130 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Instrument :
MSVOA_N
ClientSampleId :
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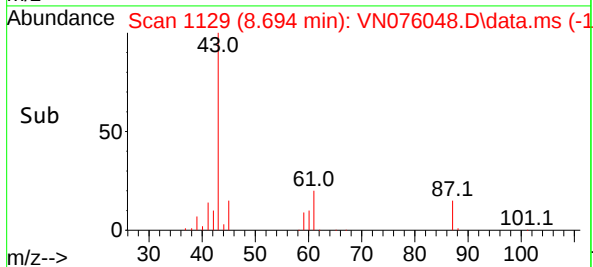
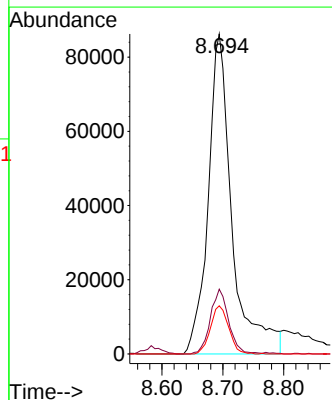
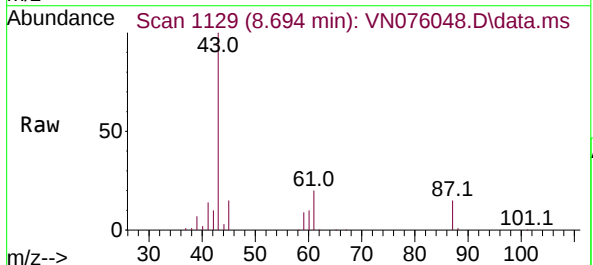


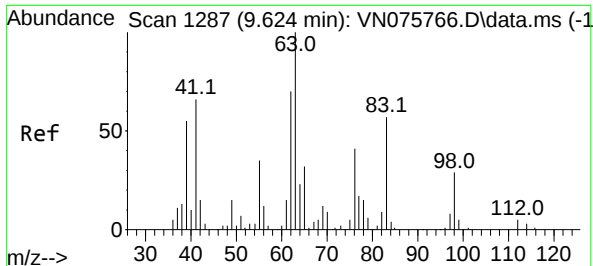
Tgt Ion:117 Resp: 35680
Ion Ratio Lower Upper
117 100
119 8.4 76.1 114.1#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 35.963 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 43 Resp: 234025
Ion Ratio Lower Upper
43 100
61 15.5 24.2 36.4#
87 11.5 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.539 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

Instrument :

MSVOA_N

ClientSampleId :

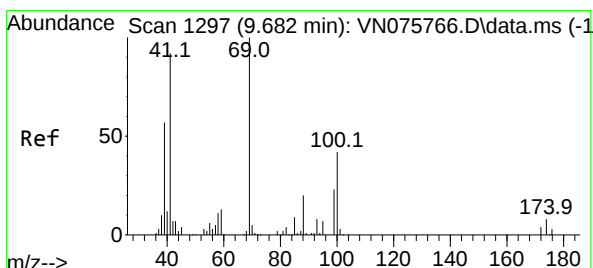
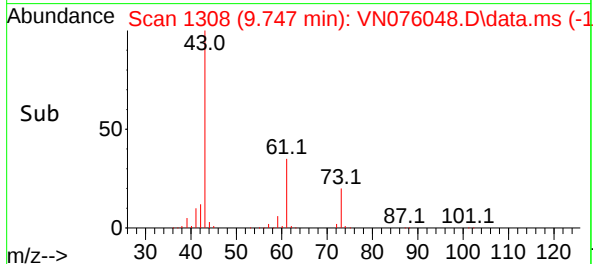
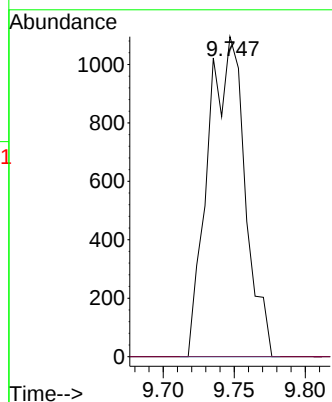
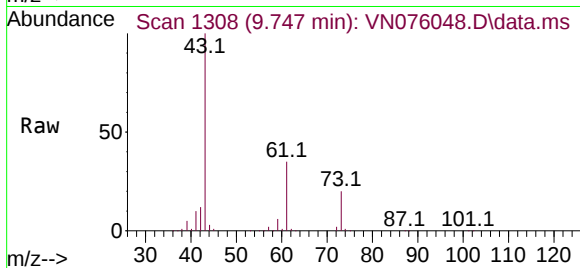
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Tgt Ion: 63 Resp: 1986

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 44.917 ug/l

RT: 9.741 min Scan# 1307

Delta R.T. 0.059 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

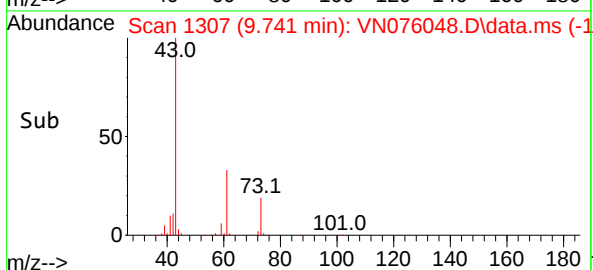
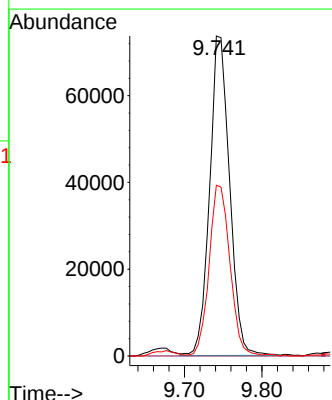
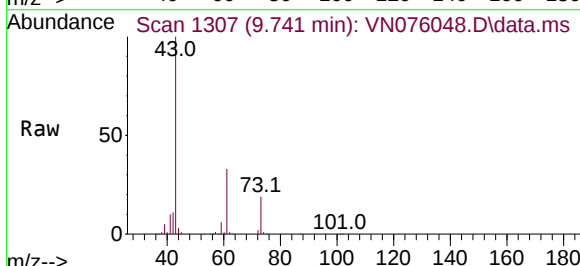
Tgt Ion: 41 Resp: 131646

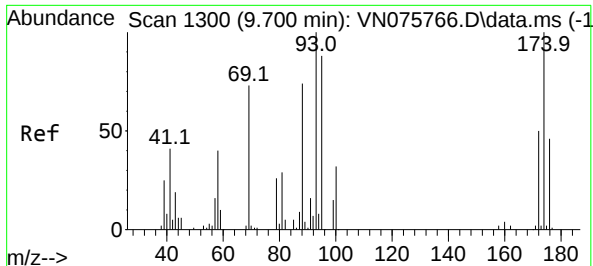
Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 55.1 51.6 77.4





#49

1,4-Dioxane

Concen: 2.526 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076048.D

Acq: 29 Dec 2022 14:54

Instrument :

MSVOA_N

ClientSampleId :

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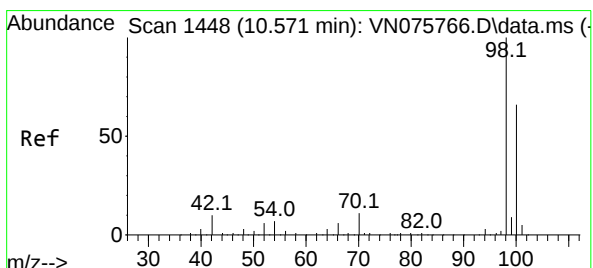
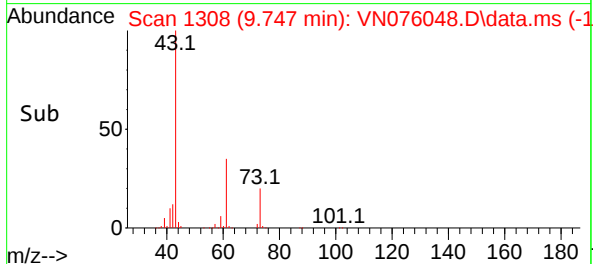
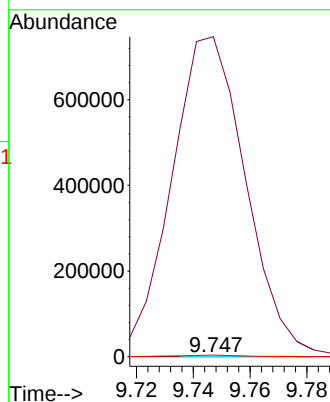
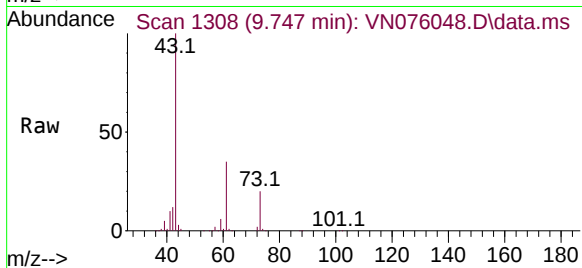
Tgt Ion: 88 Resp: 182

Ion Ratio Lower Upper

88 100

43 753958.8 17.1 25.7#

58 3424.7 47.8 71.8#



#50

Toluene-d8

Concen: 49.246 ug/l

RT: 10.570 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076048.D

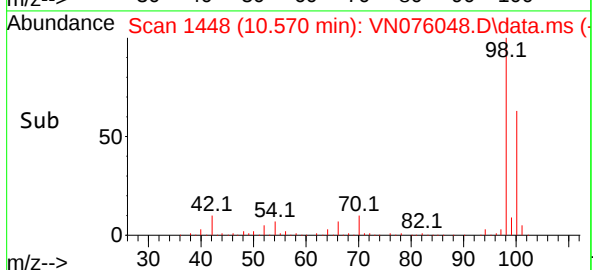
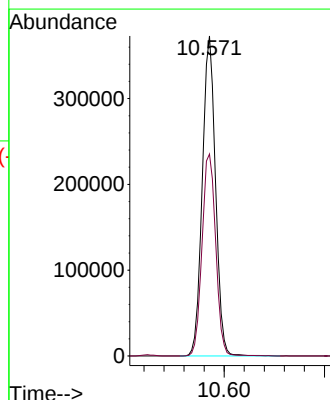
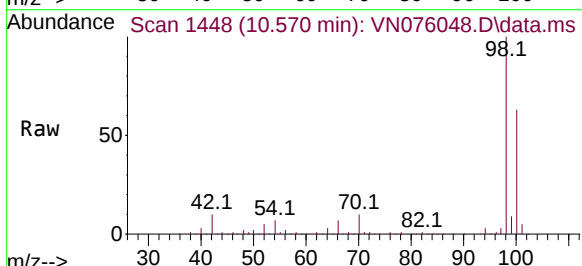
Acq: 29 Dec 2022 14:54

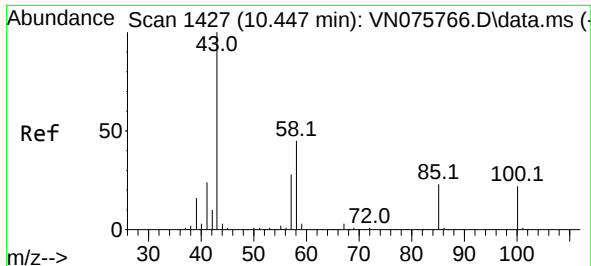
Tgt Ion: 98 Resp: 680715

Ion Ratio Lower Upper

98 100

100 65.6 52.1 78.1

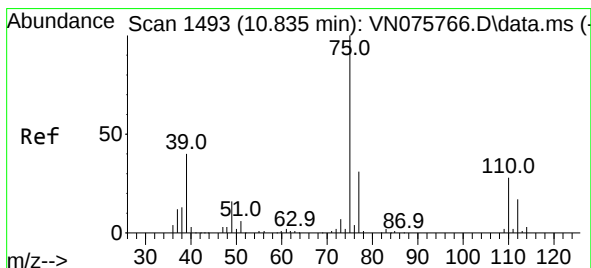
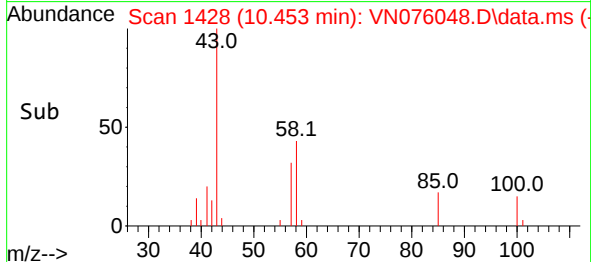
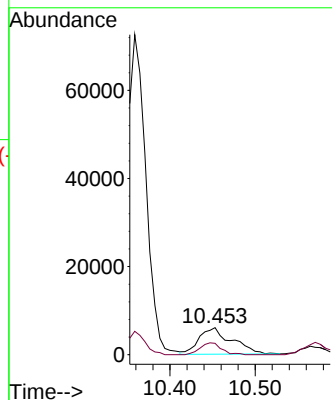
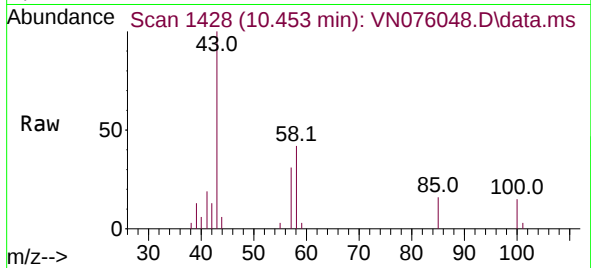




#51
4-Methyl-2-Pentanone
Concen: 4.103 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

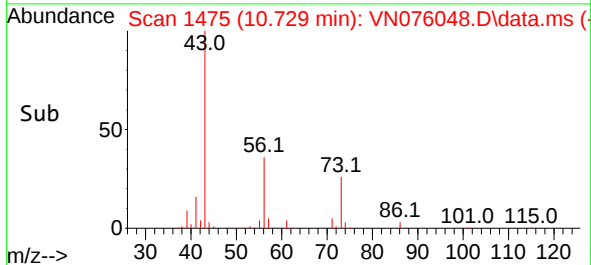
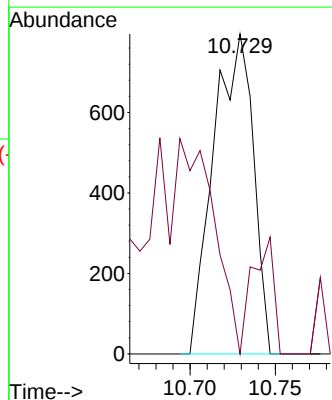
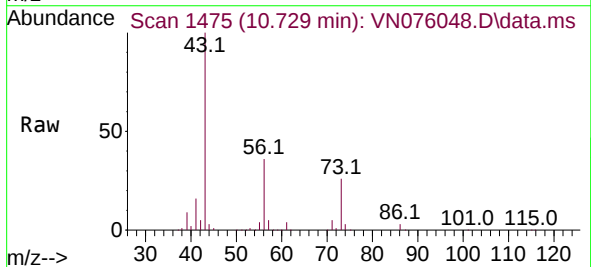
Instrument :
MSVOA_N
ClientSampleId :
TP-4

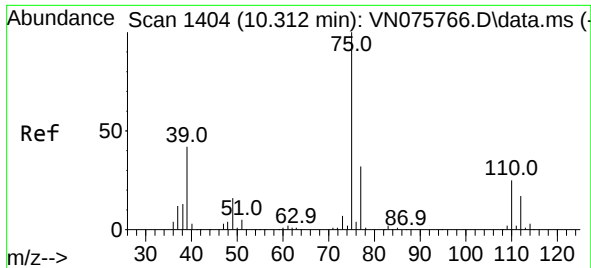
Tgt Ion: 43 Resp: 16147
Ion Ratio Lower Upper
43 100
58 29.0 35.5 53.3#



#53
t-1,3-Dichloropropene
Concen: 0.246 ug/l
RT: 10.729 min Scan# 1475
Delta R.T. -0.106 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 75 Resp: 1291
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#

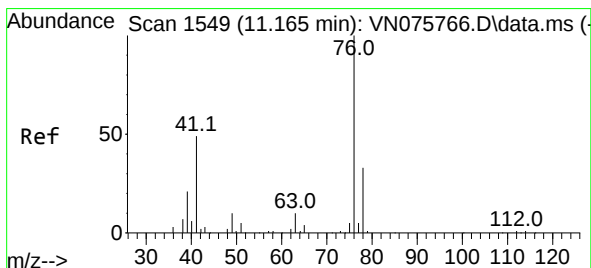
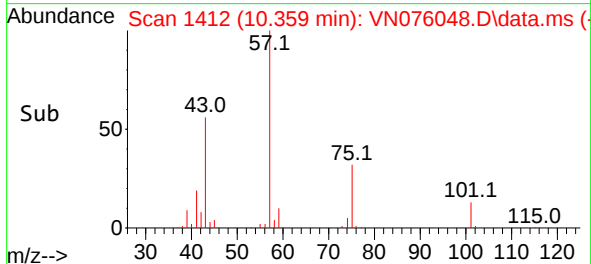
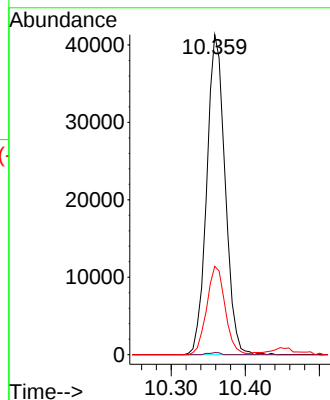
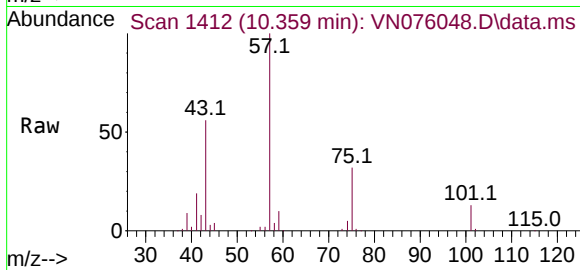




#54
 cis-1,3-Dichloropropene
 Concen: 12.310 ug/l
 RT: 10.359 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076048.D
 Acq: 29 Dec 2022 14:54

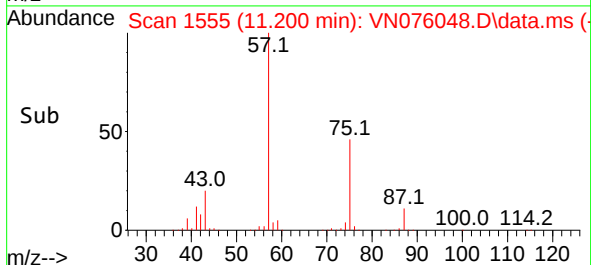
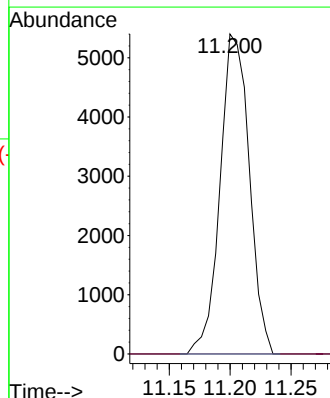
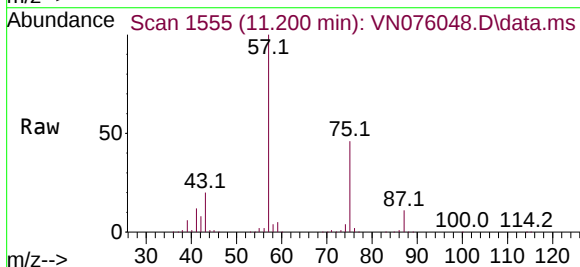
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

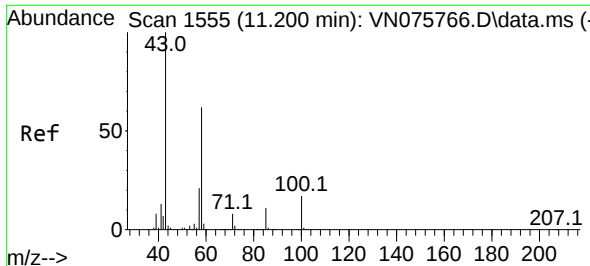
Tgt Ion: 75 Resp: 70958
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.8 38.8#
 39 27.6 33.4 50.2#



#57
 1,3-Dichloropropane
 Concen: 1.419 ug/l
 RT: 11.200 min Scan# 1555
 Delta R.T. 0.035 min
 Lab File: VN076048.D
 Acq: 29 Dec 2022 14:54

Tgt Ion: 76 Resp: 9016
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

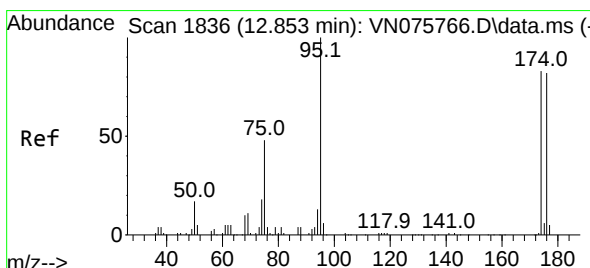
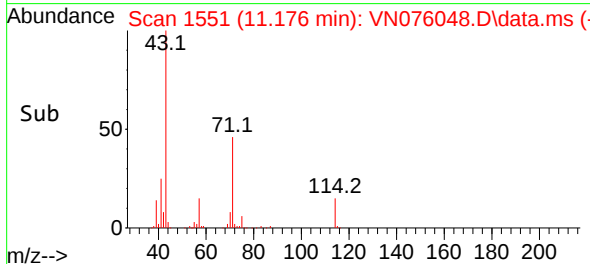
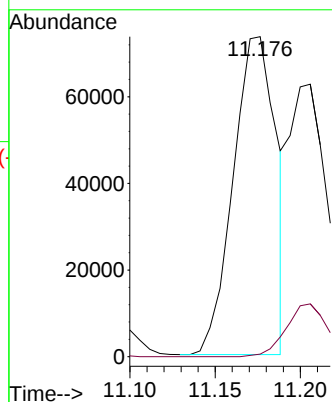
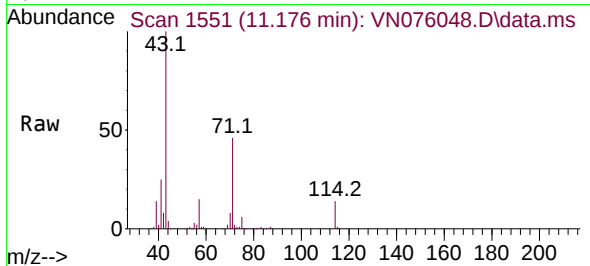




#59
2-Hexanone
Concen: 44.766 ug/l
RT: 11.176 min Scan# 1551
Delta R.T. -0.024 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

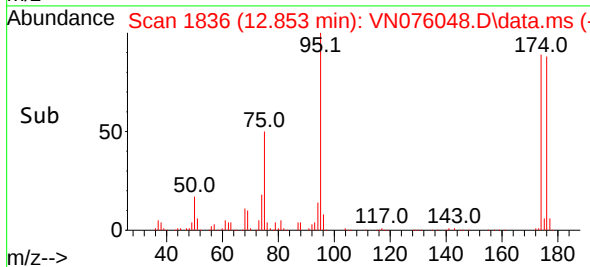
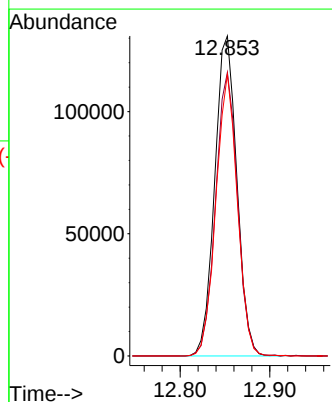
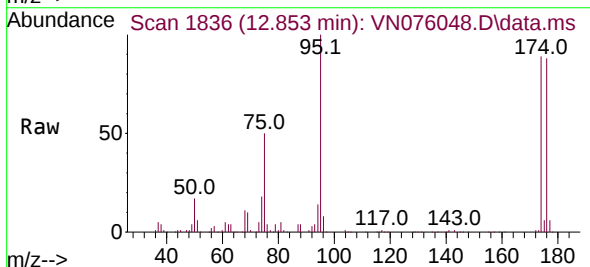
Instrument :
MSVOA_N
ClientSampleId :
TP-4

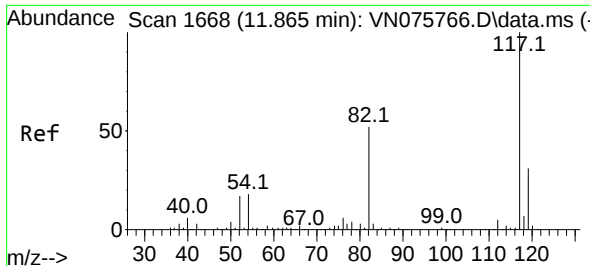
Tgt Ion: 43 Resp: 128475
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 49.003 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 95 Resp: 224349
Ion Ratio Lower Upper
95 100
174 87.5 0.0 171.6
176 85.0 0.0 169.2

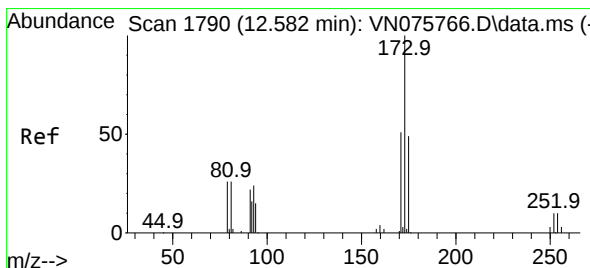
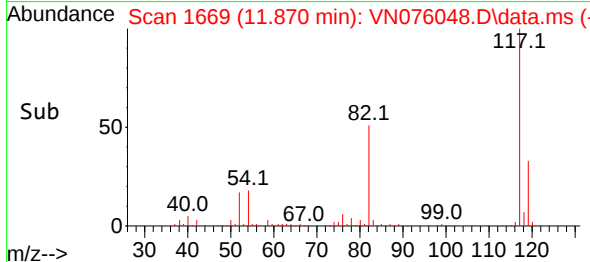
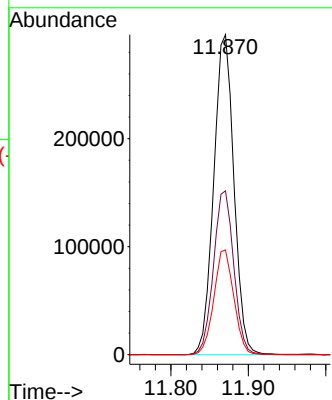
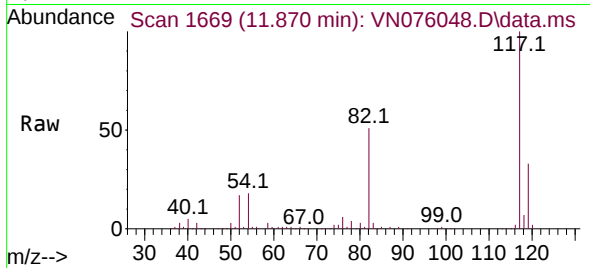




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

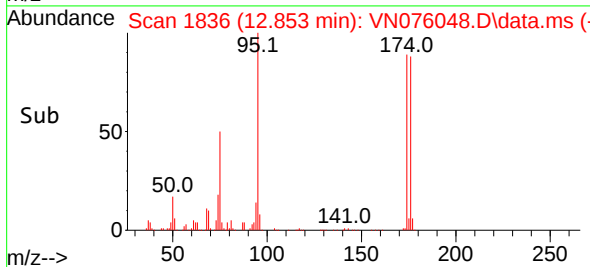
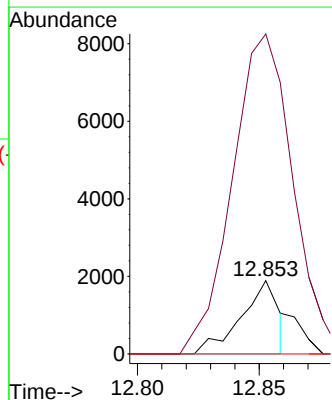
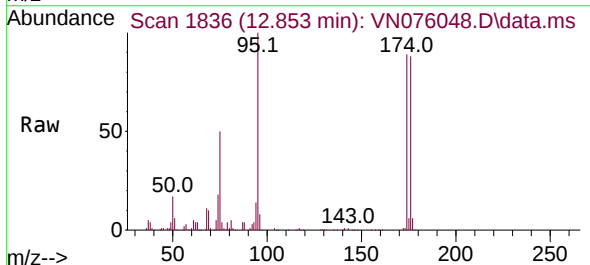
Instrument :
MSVOA_N
ClientSampleId :
TP-4

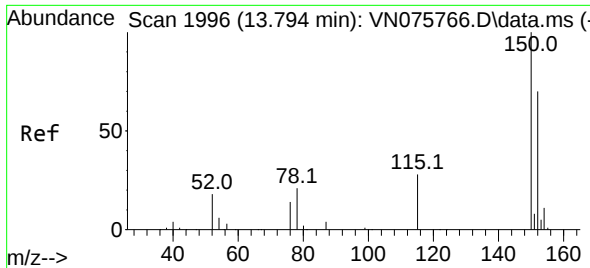
Tgt Ion:117 Resp: 535585
Ion Ratio Lower Upper
117 100
82 51.2 41.3 61.9
119 32.7 24.6 37.0



#71
Bromoform
Concen: 0.687 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.270 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion:173 Resp: 2034
Ion Ratio Lower Upper
173 100
175 573.2 24.3 72.8#
254 0.0 0.0 0.0

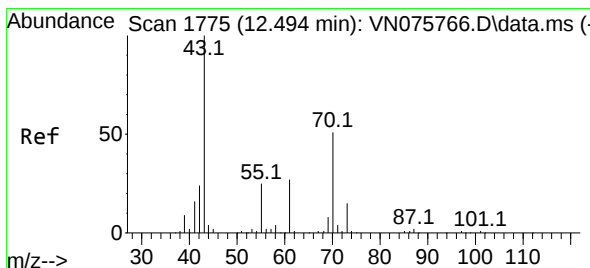
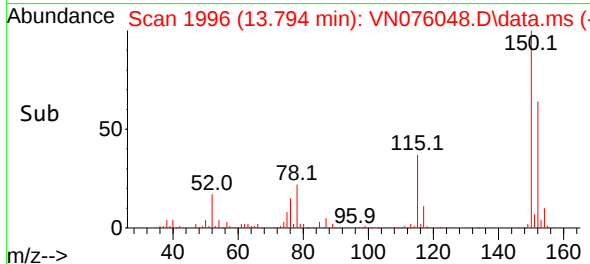
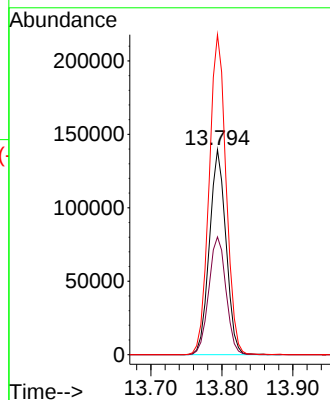
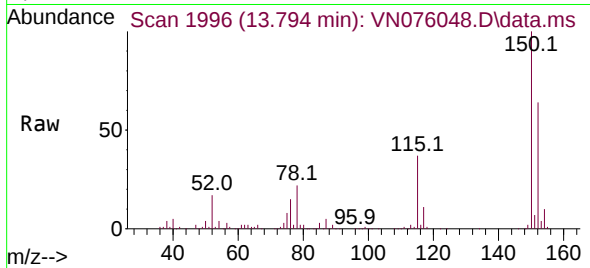




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

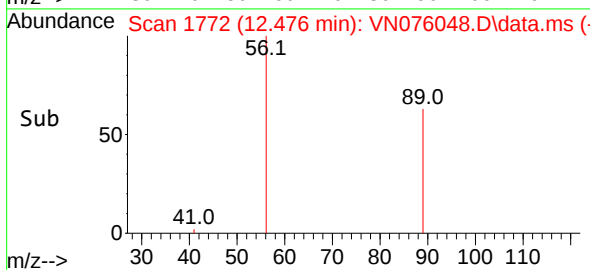
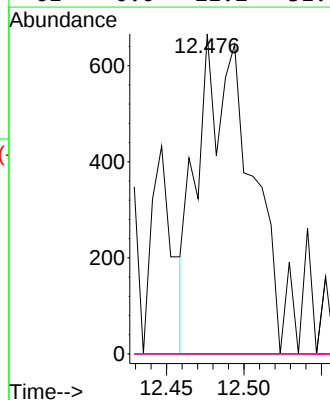
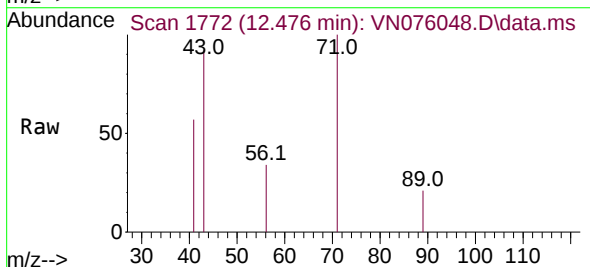
Instrument :
MSVOA_N
ClientSampleId :
TP-4

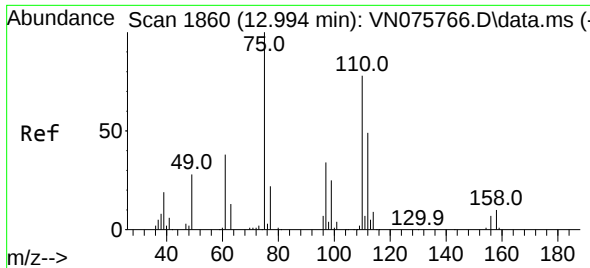
Tgt Ion:152 Resp: 225638
Ion Ratio Lower Upper
152 100
115 59.7 29.1 87.4
150 159.9 0.0 347.0



#74
N-ethyl acetate
Concen: 0.324 ug/l
RT: 12.476 min Scan# 1772
Delta R.T. -0.018 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 43 Resp: 1550
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 0.0 21.3 31.9#
61 0.0 21.2 31.8#

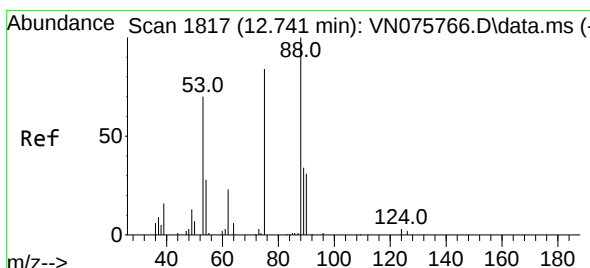
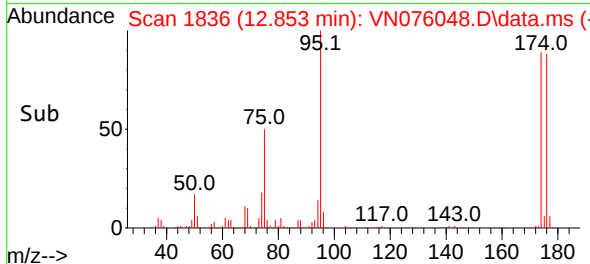
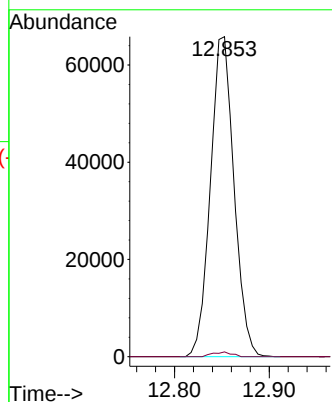
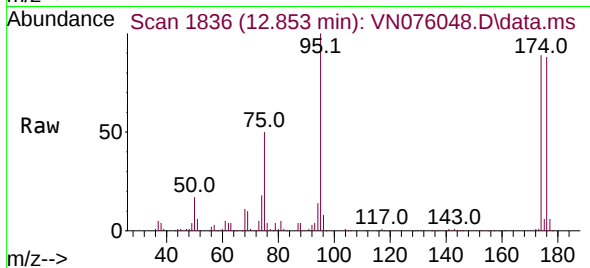




#76
1,2,3-Trichloropropane
Concen: 25.075 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

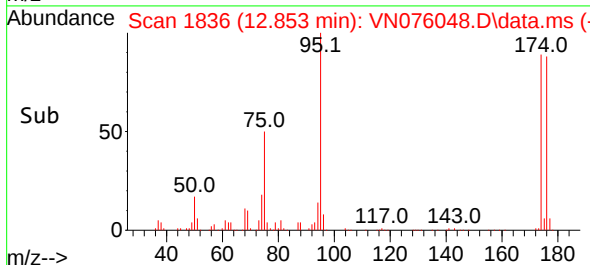
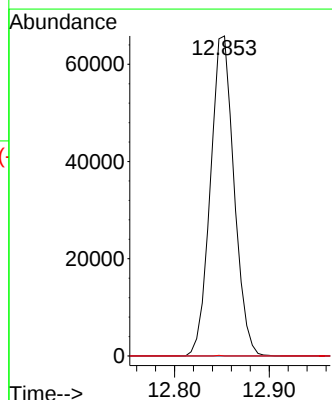
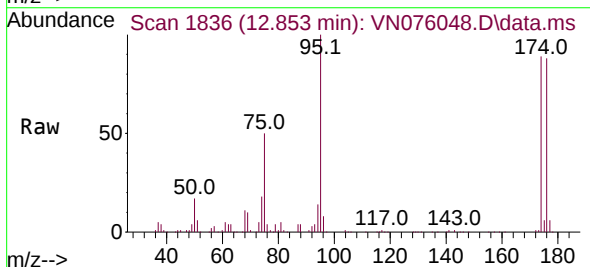
Instrument :
MSVOA_N
ClientSampleId :
TP-4

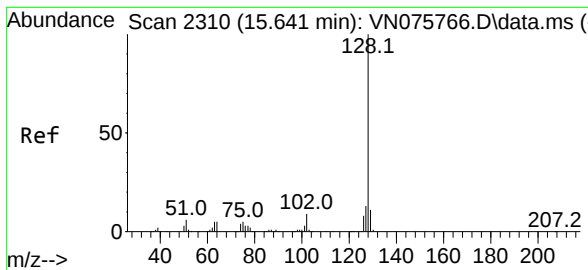
Tgt Ion: 75 Resp: 114048
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 90.257 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Tgt Ion: 75 Resp: 114048
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 2.359 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076048.D
Acq: 29 Dec 2022 14:54

Instrument :
MSVOA_N
ClientSampleId :
TP-4

Tgt Ion:	128	Resp:	2332
Ion	Ratio	Lower	Upper
128	100		
127	9.5	10.4	15.6#
129	3.0	8.7	13.1#

