

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011323\
 Data File : VN076249.D
 Acq On : 13 Jan 2023 15:27
 Operator : JC\MD
 Sample : 01140-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-D

Quant Time: Jan 16 01:10:05 2023
 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

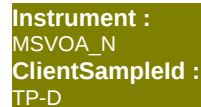
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

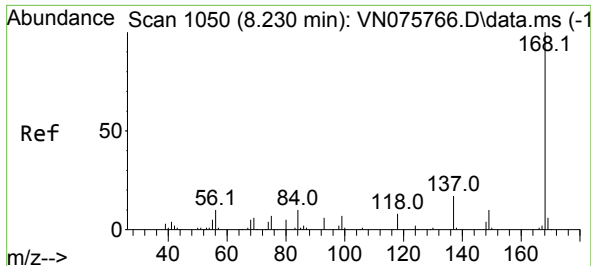
Internal Standards						
1) Pentafluorobenzene	8.230	168	343066	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	559247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	500184	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	206891	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	188407	50.481	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.960%	
35) Dibromofluoromethane	8.171	113	165832	47.882	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.760%	
50) Toluene-d8	10.571	98	656715	50.715	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.440%	
62) 4-Bromofluorobenzene	12.853	95	206118	48.059	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.120%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	220	0.417	ug/l #	72
13) Acrolein	4.189	56	222	0.343	ug/l #	80
16) Acetone	4.448	43	48401	37.620	ug/l	95
18) Methyl Acetate	5.042	43	1977	0.520	ug/l #	56
20) Methylene Chloride	5.295	84	12518	3.036	ug/l	97
25) 2-Butanone	7.500	43	10014	5.559	ug/l	99
31) Cyclohexane	8.230	56	6146	1.150	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	25015	5.437	ug/l #	50
37) Ethyl Acetate	7.565	43	32983	8.925	ug/l	97
38) Carbon Tetrachloride	8.230	117	34524	6.705	ug/l #	16
40) Benzene	8.612	78	4792	0.338	ug/l #	83
41) Methacrylonitrile	7.577	41	457	0.238	ug/l #	18
42) 1,2-Dichloroethane	8.683	62	1513	0.321	ug/l #	72
43) Isopropyl Acetate	8.694	43	329360	54.029	ug/l #	71
45) 1,2-Dichloropropane	9.741	63	1964	0.569	ug/l #	43
48) Methyl methacrylate	9.747	41	135029	49.180	ug/l #	34
49) 1,4-Dioxane	9.747	88	302	4.474	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	14228	3.859	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	68011	12.595	ug/l #	68
56) Ethyl methacrylate	10.988	69	1805	0.375	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	8345	1.402	ug/l #	42
59) 2-Hexanone	11.177	43	152893	56.869	ug/l #	20
71) Bromoform	12.847	173	1906	0.689	ug/l #	1
74) N-amyl acetate	12.488	43	1418	0.323	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	107621	25.806	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	107621	92.888	ug/l #	12
95) Naphthalene	15.641	128	12556	3.244	ug/l	98

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

Instrument :
MSVOA_N
ClientSampleId :
TP-D

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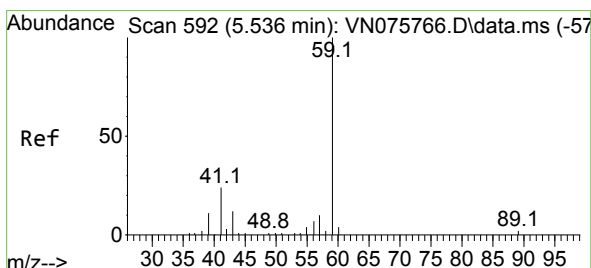
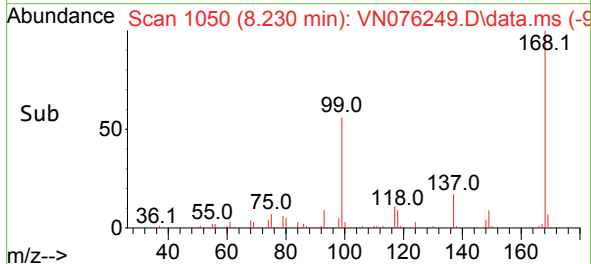
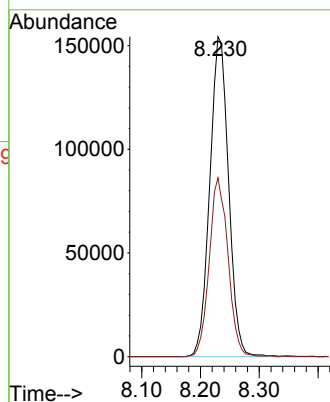
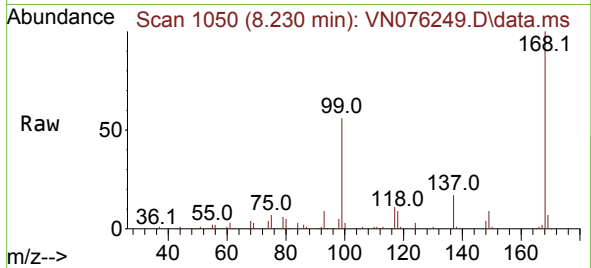




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

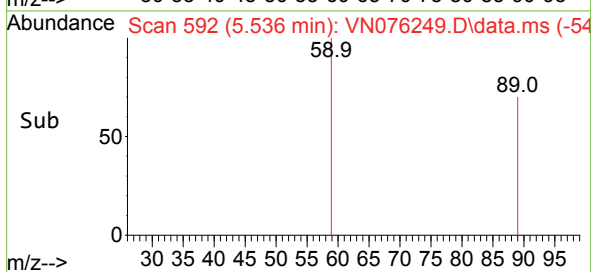
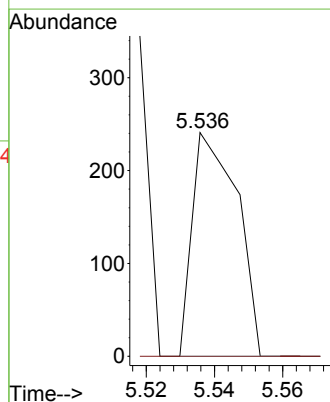
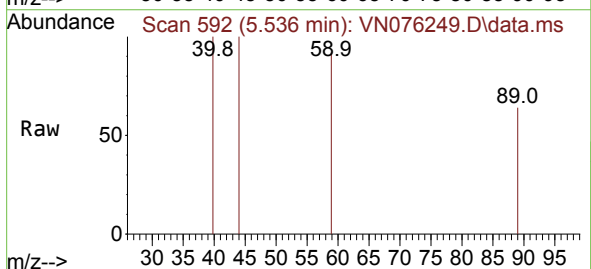
Instrument :
MSVOA_N
ClientSampleId :
TP-D

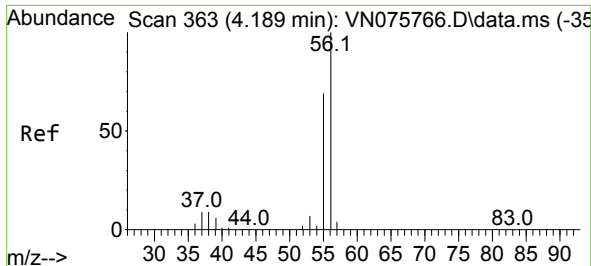
Tgt Ion:168 Resp: 343066
Ion Ratio Lower Upper
168 100
99 55.9 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.417 ug/l
RT: 5.536 min Scan# 592
Delta R.T. 0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 59 Resp: 220
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.343 ug/l

RT: 4.189 min Scan# 3

Delta R.T. 0.000 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

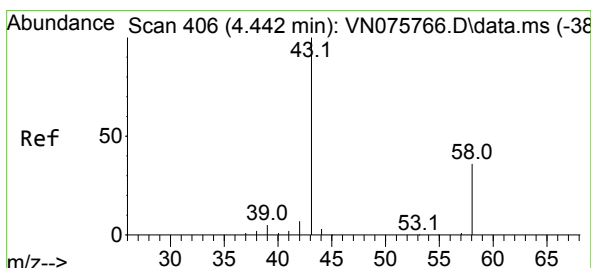
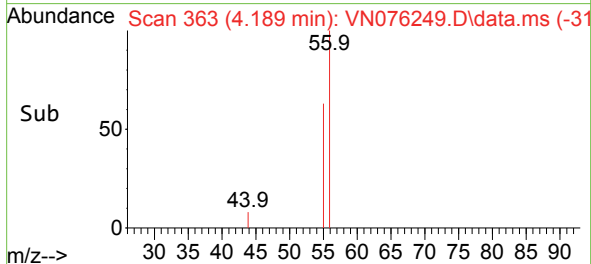
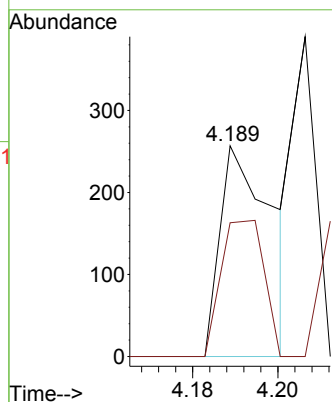
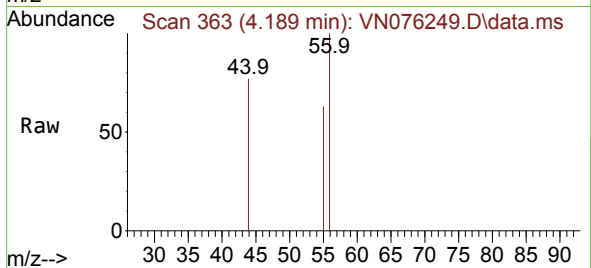
TP-D

Tgt Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 52.3 54.8 82.2#



#16

Acetone

Concen: 37.620 ug/l

RT: 4.448 min Scan# 407

Delta R.T. 0.006 min

Lab File: VN076249.D

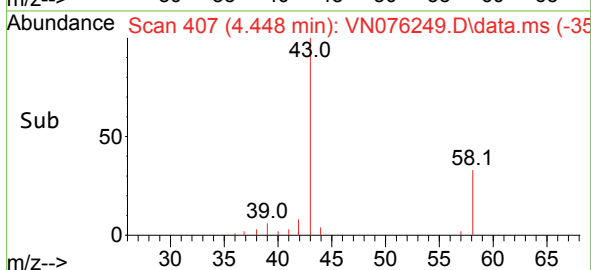
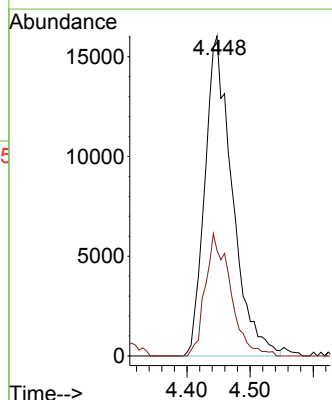
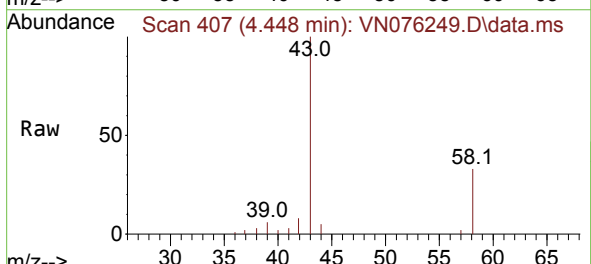
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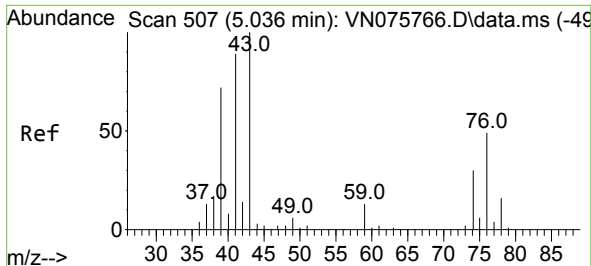
Tgt Ion: 43 Resp: 48401

Ion Ratio Lower Upper

43 100

58 33.0 28.6 43.0

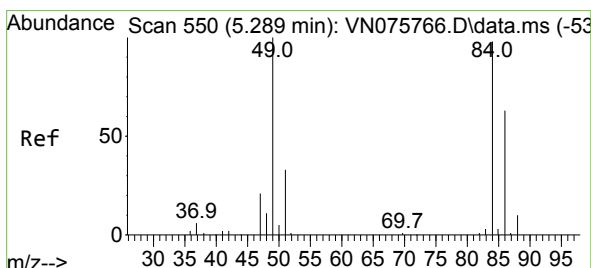
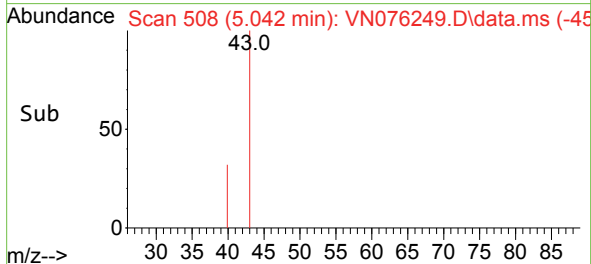
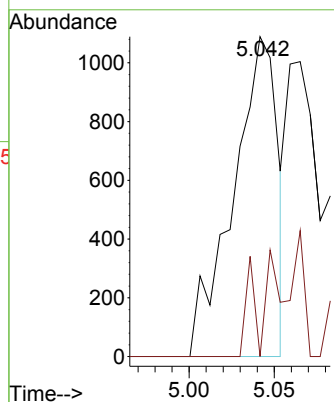
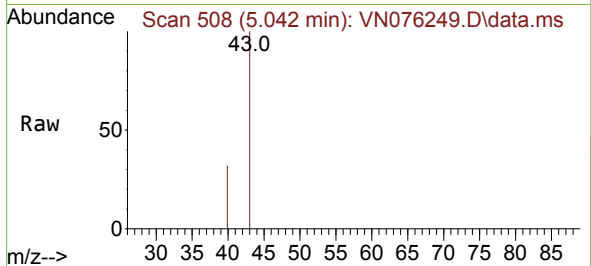




#18
Methyl Acetate
Concen: 0.520 ug/l
RT: 5.042 min Scan# 508
Delta R.T. 0.006 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

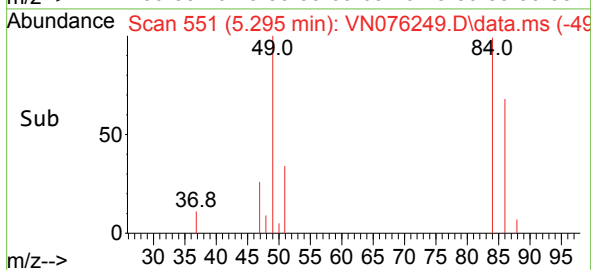
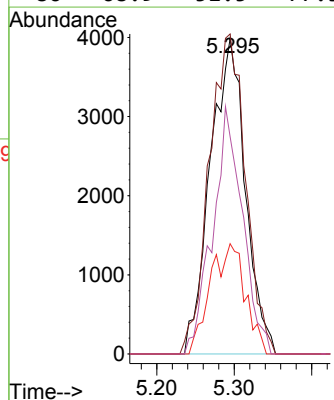
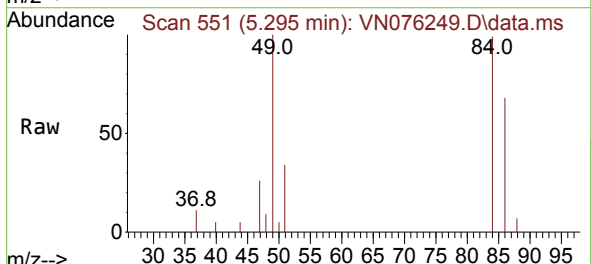
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MSVOA_N
ClientSampleId :
TP-D

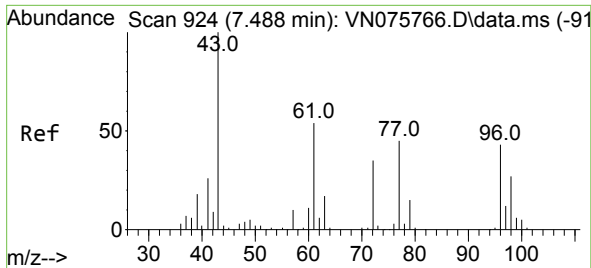
Tgt Ion: 43 Resp: 1977
Ion Ratio Lower Upper
43 100
74 6.1 23.6 35.4#



#20
Methylene Chloride
Concen: 3.036 ug/l
RT: 5.295 min Scan# 551
Delta R.T. 0.006 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 84 Resp: 12518
Ion Ratio Lower Upper
84 100
49 101.4 81.8 122.6
51 34.9 26.7 40.1
86 68.9 51.5 77.3

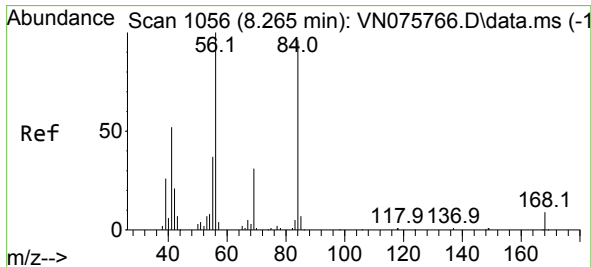
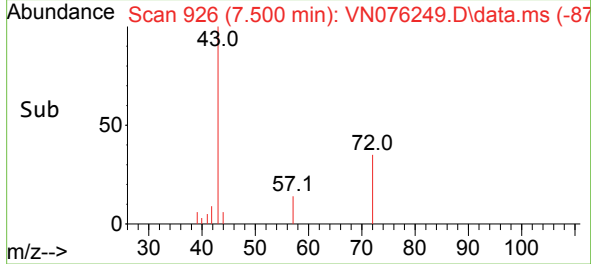
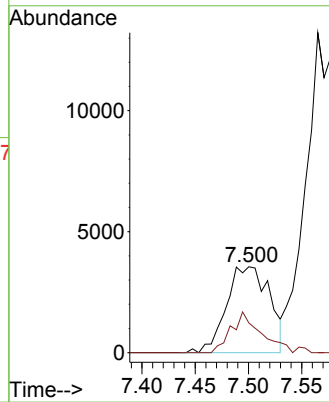
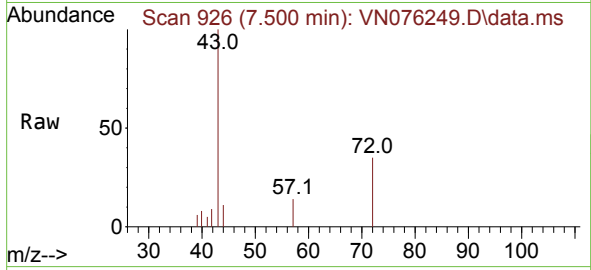




#25
2-Butanone
Concen: 5.559 ug/l
RT: 7.500 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

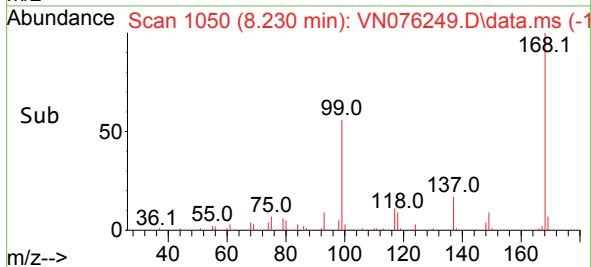
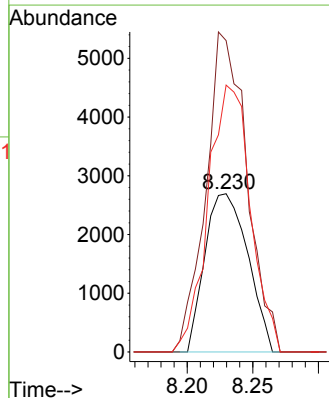
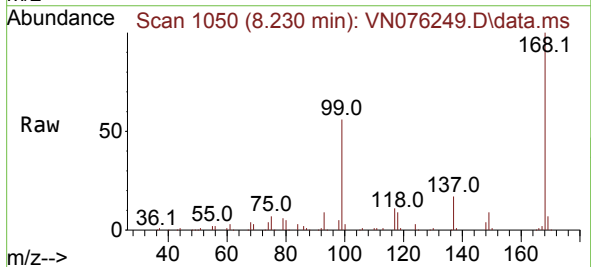
Instrument :
MSVOA_N
ClientSampleId :
TP-D

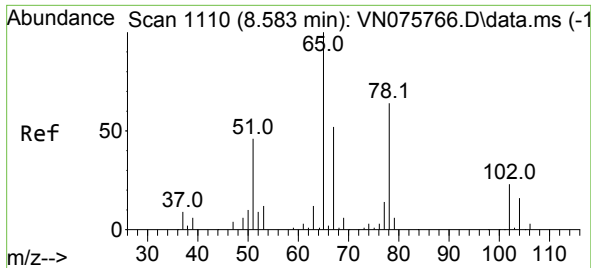
Tgt Ion: 43 Resp: 10014
Ion Ratio Lower Upper
43 100
72 34.6 28.0 42.0



#31
Cyclohexane
Concen: 1.150 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.035 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 56 Resp: 6146
Ion Ratio Lower Upper
56 100
69 196.7 24.7 37.1#
84 168.6 76.5 114.7#

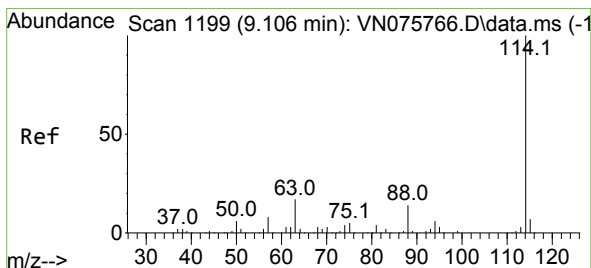
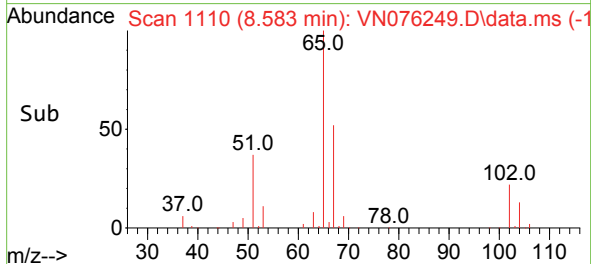
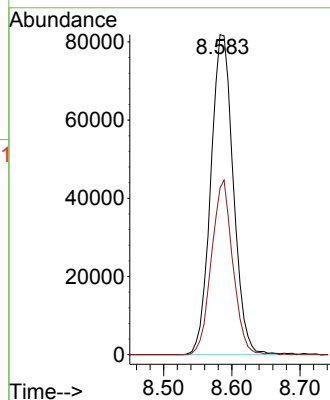
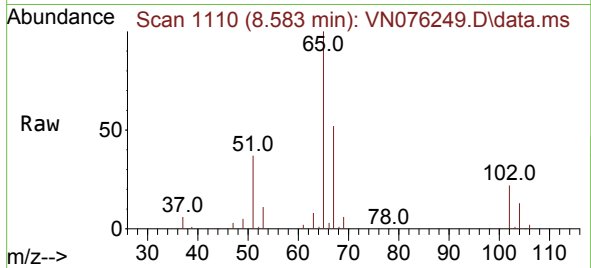




#33
 1,2-Dichloroethane-d4
 Concen: 50.481 ug/l
 RT: 8.583 min Scan# 1110
 Delta R.T. 0.000 min
 Lab File: VN076249.D
 Acq: 13 Jan 2023 15:27

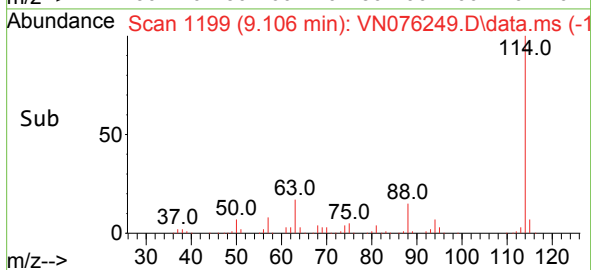
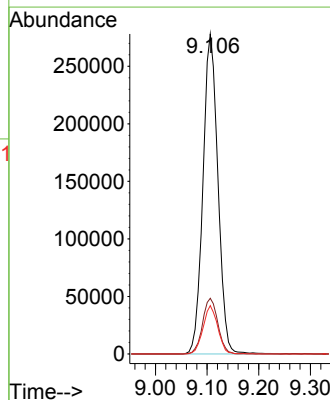
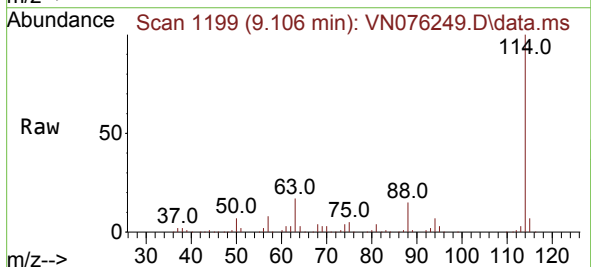
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 MSVOA_N
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 TP-D

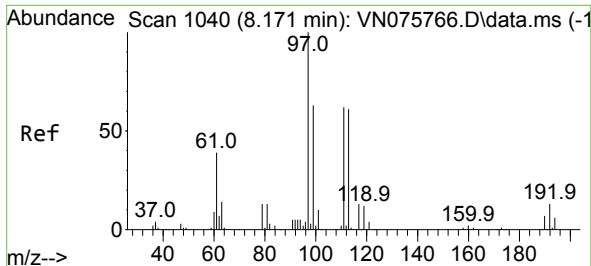
Tgt Ion: 65 Resp: 188407
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1199
 Delta R.T. 0.000 min
 Lab File: VN076249.D
 Acq: 13 Jan 2023 15:27

Tgt Ion:114 Resp: 559247
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 34.4
 88 15.1 0.0 28.8

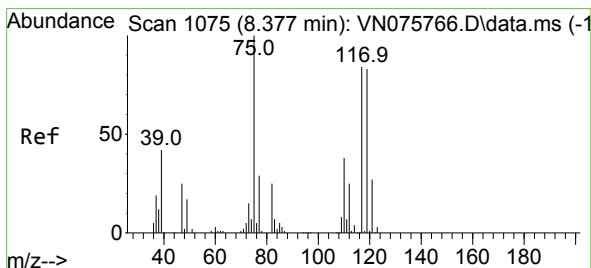
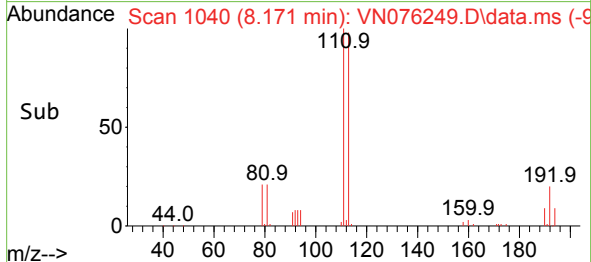
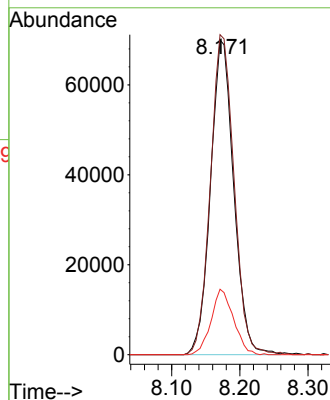
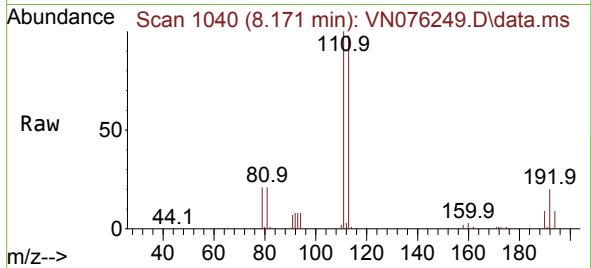




#35
Dibromofluoromethane
Concen: 47.882 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

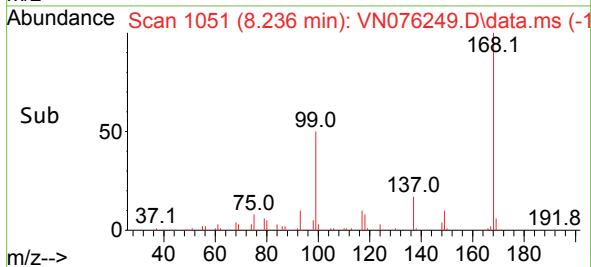
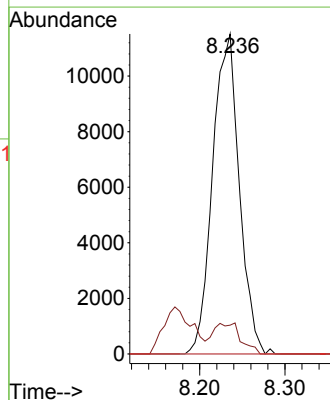
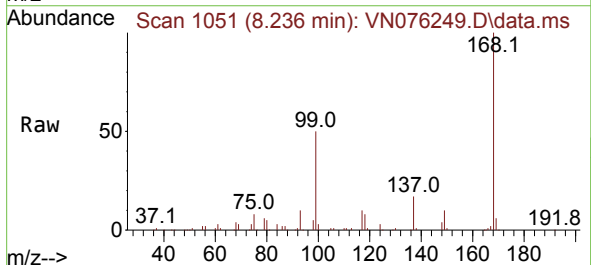
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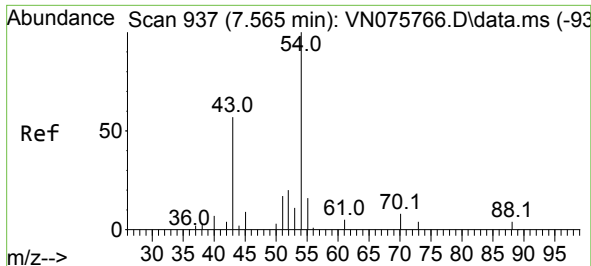
Tgt Ion:113 Resp: 165832
Ion Ratio Lower Upper
113 100
111 103.4 83.4 125.2
192 20.2 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.437 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.141 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 75 Resp: 25015
Ion Ratio Lower Upper
75 100
110 10.1 18.8 56.4#
77 0.0 24.1 36.1#

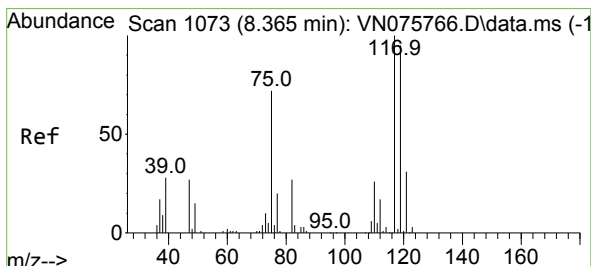
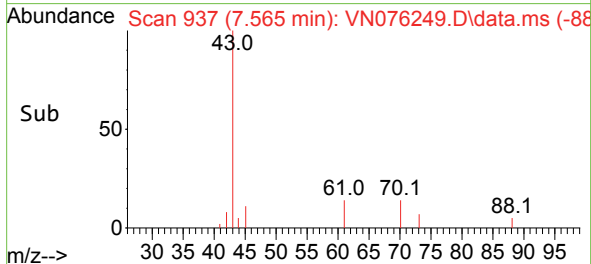
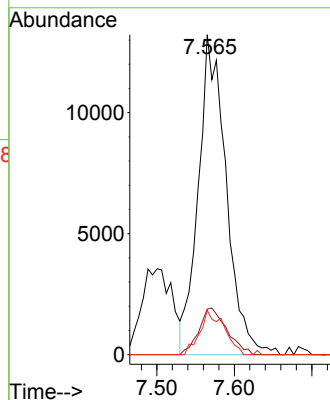
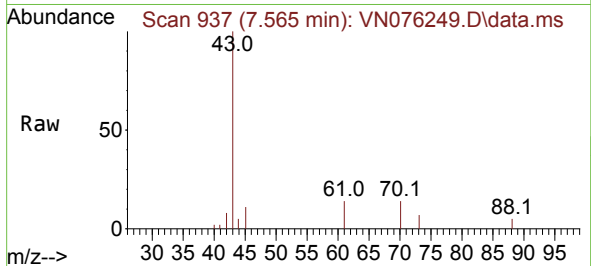




#37
Ethyl Acetate
Concen: 8.925 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

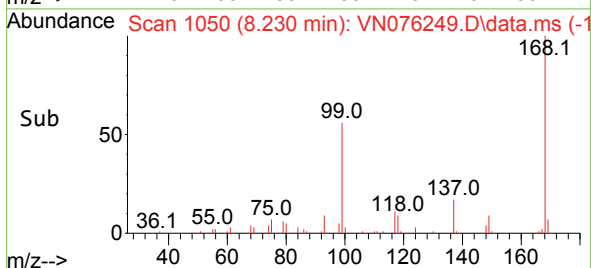
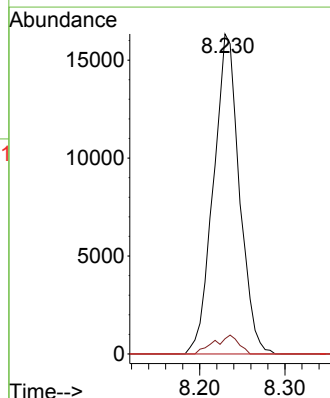
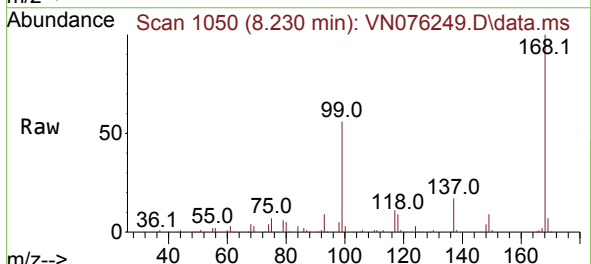
Instrument :
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ClientSampleId :
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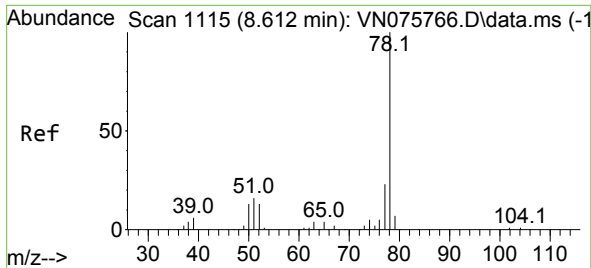
Tgt Ion:	43	Resp:	32983
Ion	Ratio	Lower	Upper
43	100		
61	14.6	13.0	19.4
70	12.1	9.4	14.0



#38
Carbon Tetrachloride
Concen: 6.705 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion:	117	Resp:	34524
Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.1	114.1#
121	0.0	24.5	36.7#

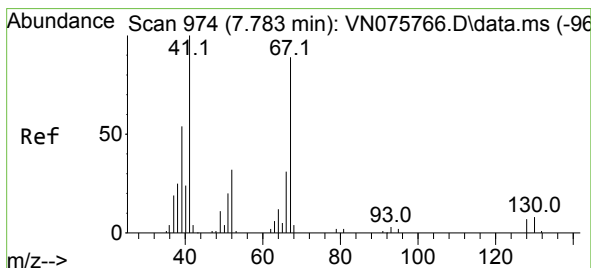
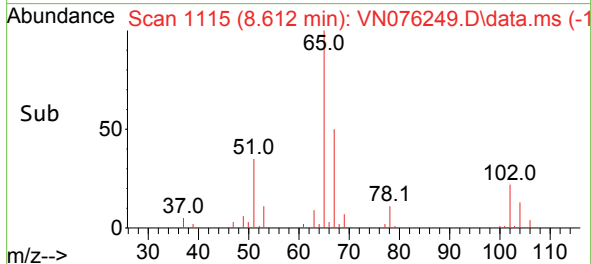
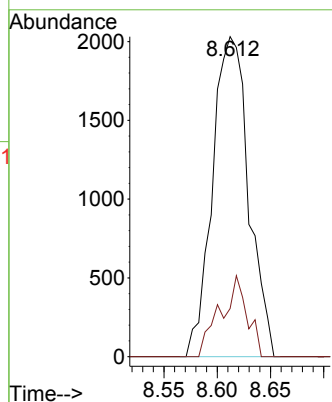
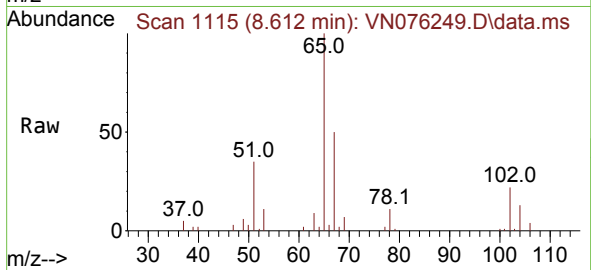




#40
Benzene
Concen: 0.338 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

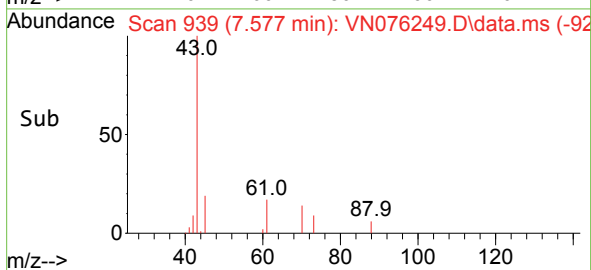
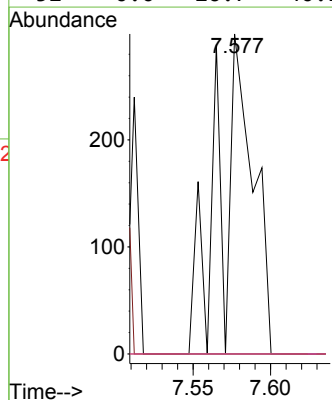
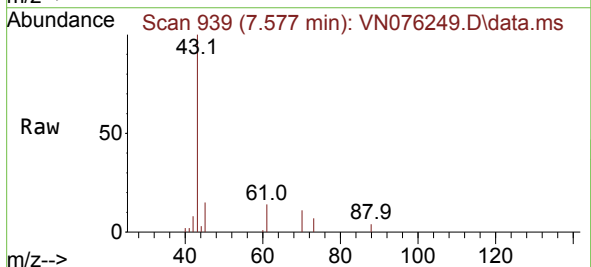
Instrument :
MSVOA_N
ClientSampleId :
TP-D

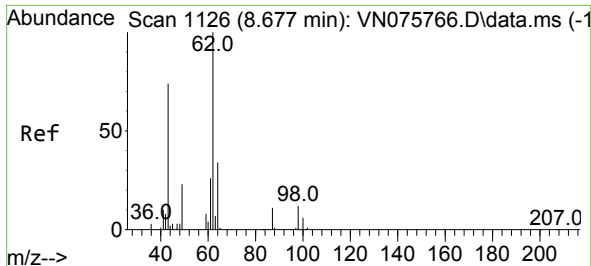
Tgt Ion: 78 Resp: 4792
Ion Ratio Lower Upper
78 100
77 15.1 18.5 27.7#



#41
Methacrylonitrile
Concen: 0.238 ug/l
RT: 7.577 min Scan# 939
Delta R.T. -0.206 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 41 Resp: 457
Ion Ratio Lower Upper
41 100
39 0.0 43.1 64.7#
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#





#42

1,2-Dichloroethane

Concen: 0.321 ug/l

RT: 8.683 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

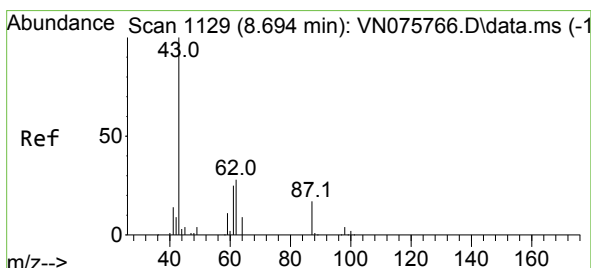
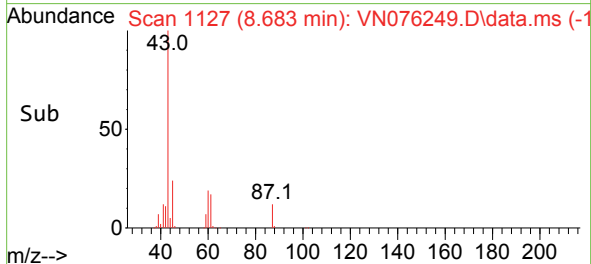
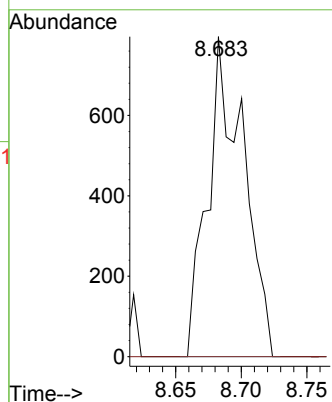
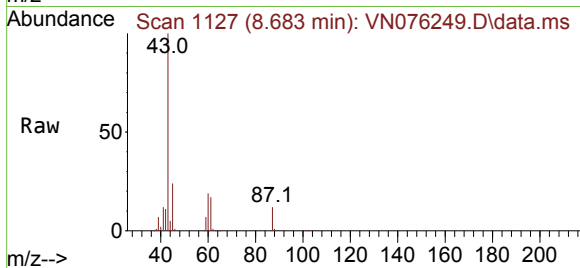
TP-D

Tgt Ion: 62 Resp: 1513

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 54.029 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

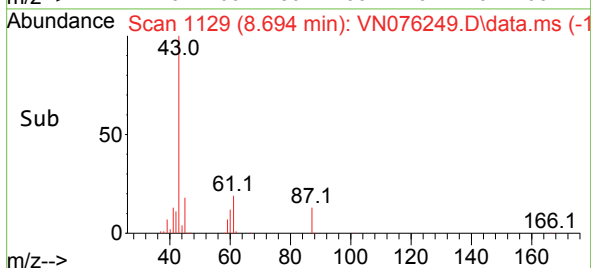
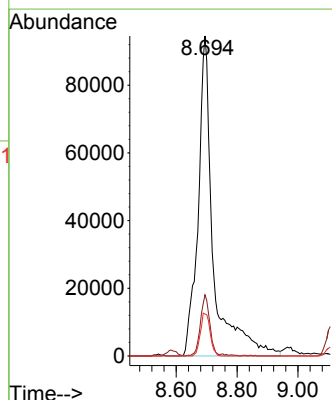
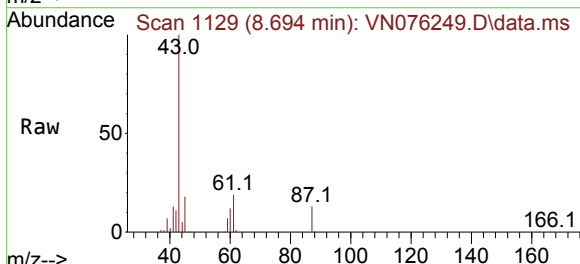
Tgt Ion: 43 Resp: 329360

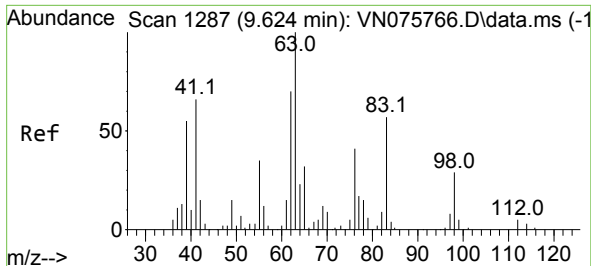
Ion Ratio Lower Upper

43 100

61 11.6 24.2 36.4#

87 8.5 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.569 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

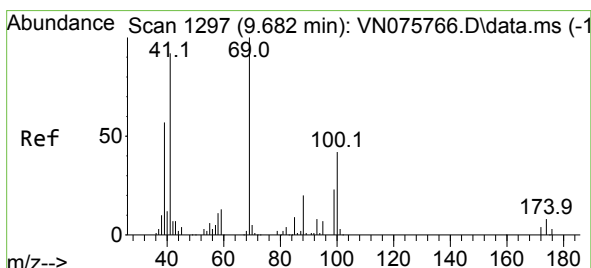
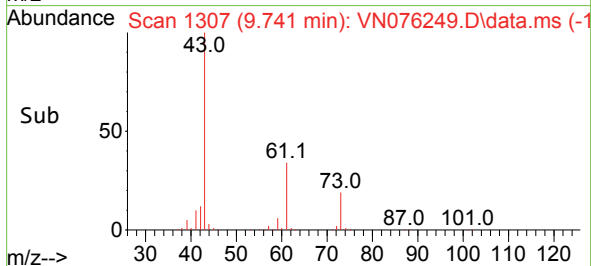
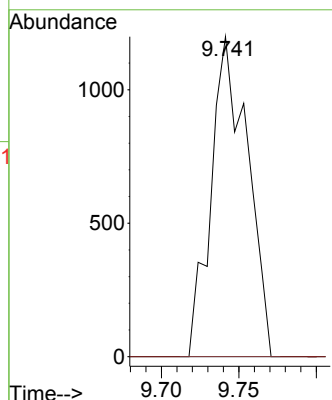
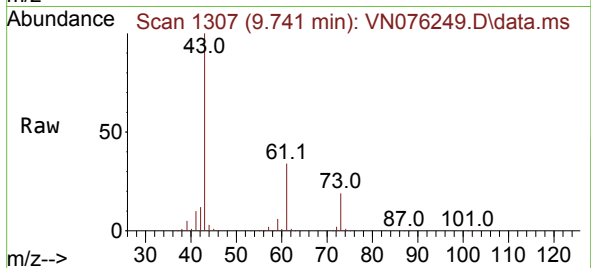
TP-D

Tgt Ion: 63 Resp: 1964

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 49.180 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.065 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

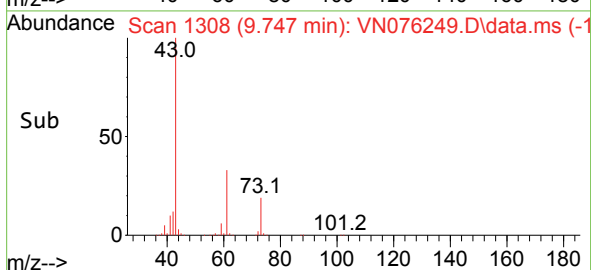
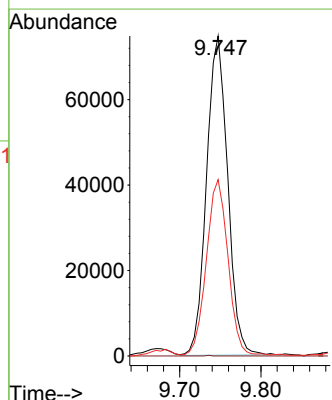
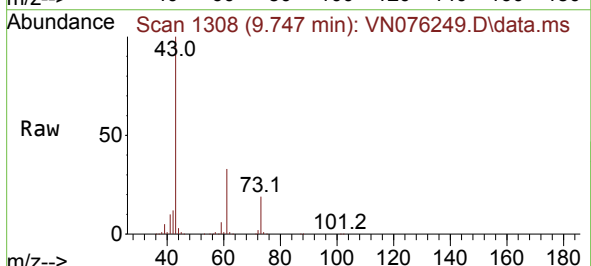
Tgt Ion: 41 Resp: 135029

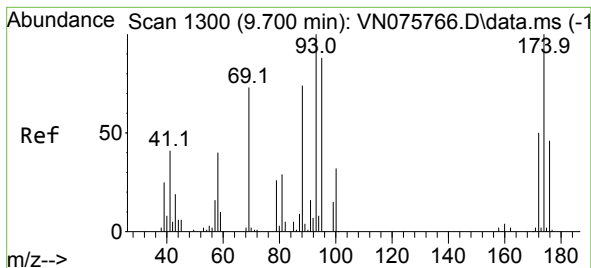
Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 56.1 51.6 77.4





#49

1,4-Dioxane

Concen: 4.474 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

TP-D

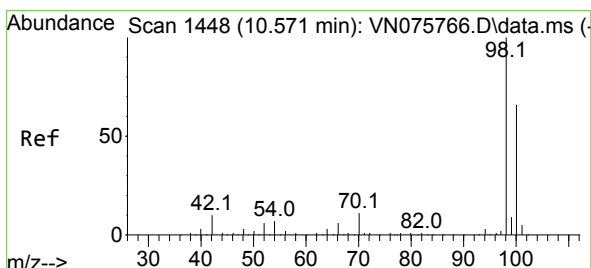
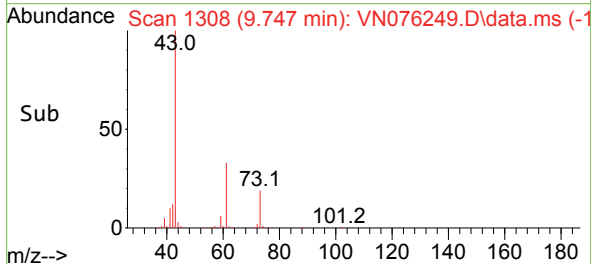
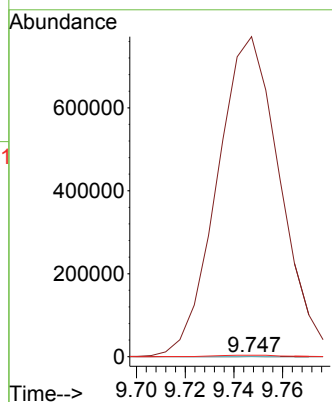
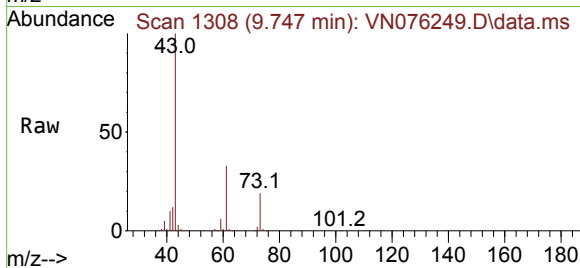
Tgt Ion: 88 Resp: 302

Ion Ratio Lower Upper

88 100

43 463800.0 17.1 25.7#

58 2299.3 47.8 71.8#



#50

Toluene-d8

Concen: 50.715 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN076249.D

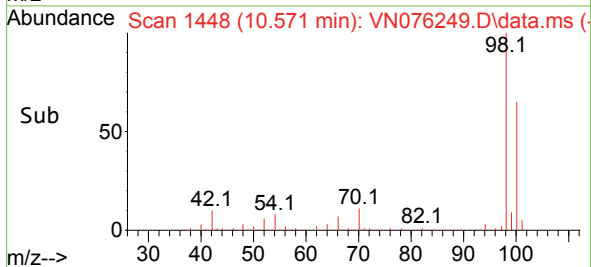
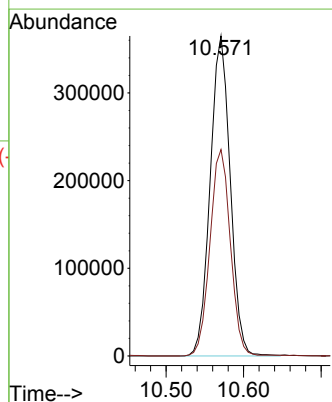
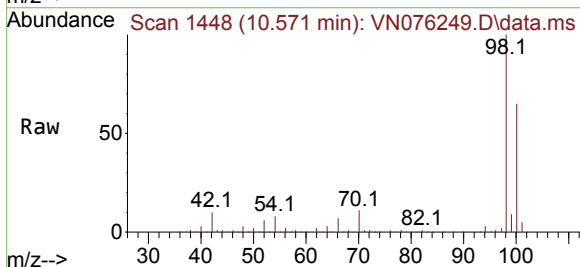
Acq: 13 Jan 2023 15:27

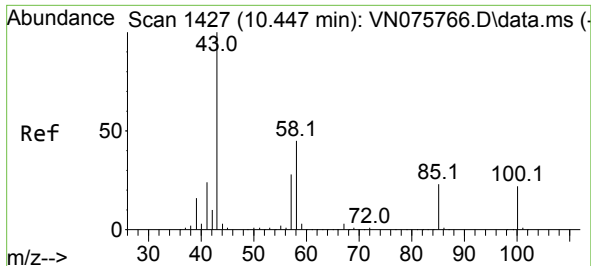
Tgt Ion: 98 Resp: 656715

Ion Ratio Lower Upper

98 100

100 65.7 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 3.859 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

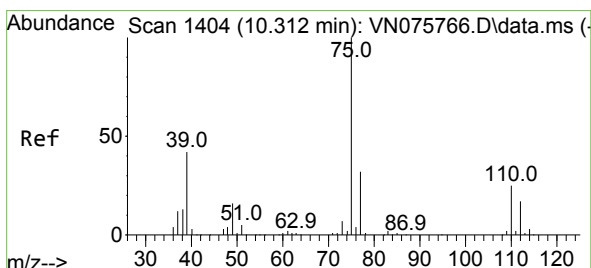
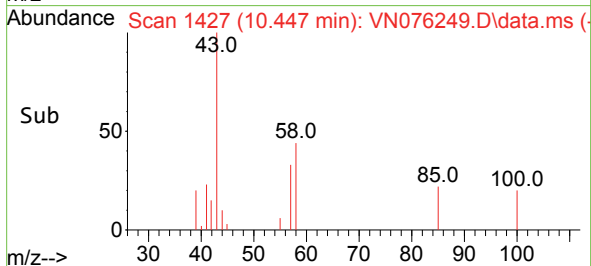
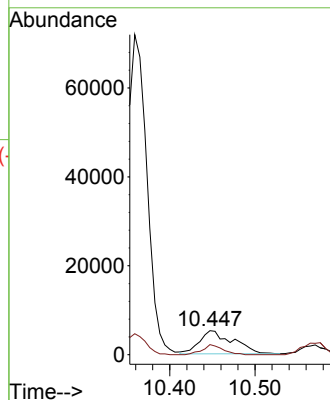
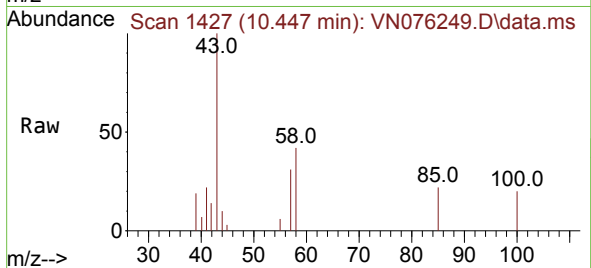
TP-D

Tgt Ion: 43 Resp: 14228

Ion Ratio Lower Upper

43 100

58 26.2 35.5 53.3#



#54

cis-1,3-Dichloropropene

Concen: 12.595 ug/l

RT: 10.359 min Scan# 1412

Delta R.T. 0.047 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

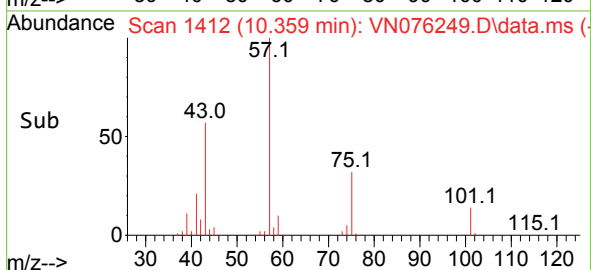
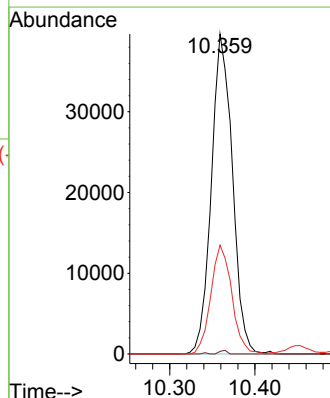
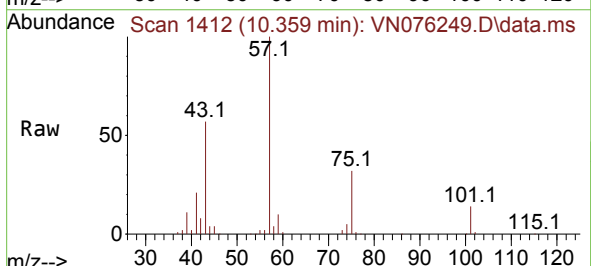
Tgt Ion: 75 Resp: 68011

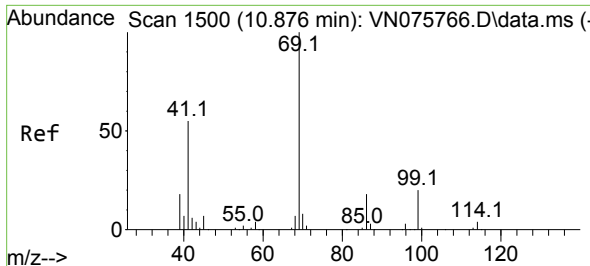
Ion Ratio Lower Upper

75 100

77 0.8 25.8 38.8#

39 34.0 33.4 50.2

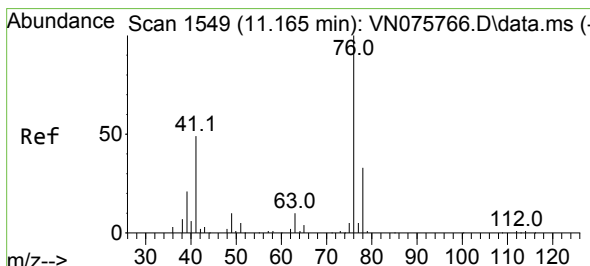
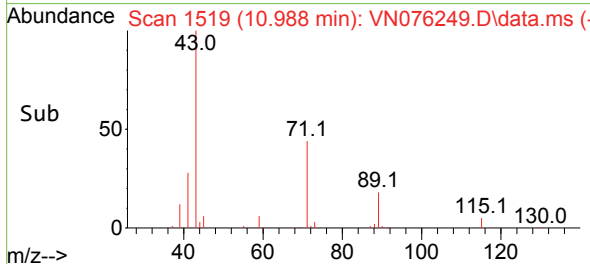
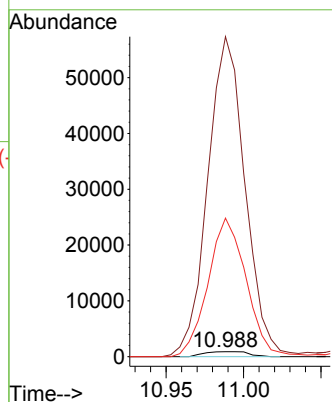
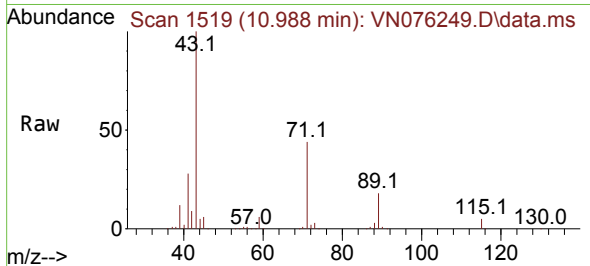




#56
Ethyl methacrylate
Concen: 0.375 ug/l
RT: 10.988 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

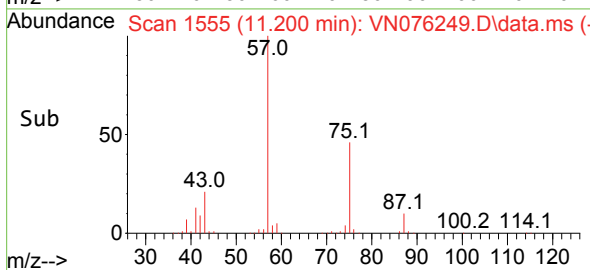
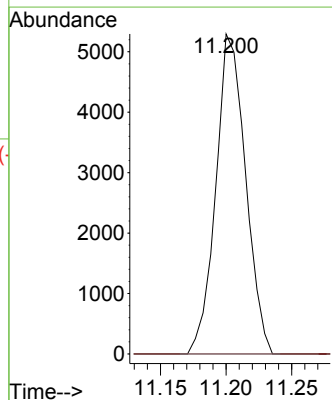
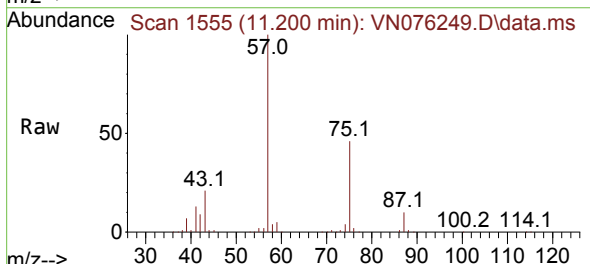
Instrument :
MSVOA_N
ClientSampleId :
TP-D

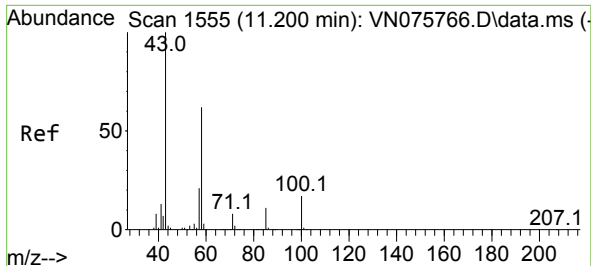
Tgt Ion: 69 Resp: 1805
Ion Ratio Lower Upper
69 100
41 5323.1 44.2 66.4#
39 2357.3 26.4 39.6#



#57
1,3-Dichloropropane
Concen: 1.402 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.035 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 76 Resp: 8345
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

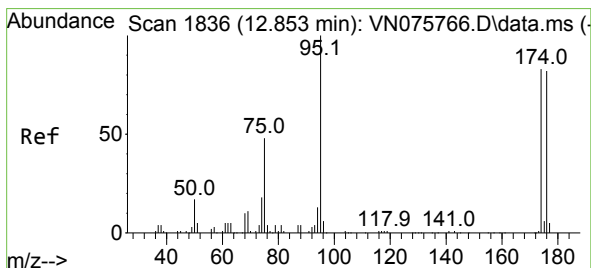
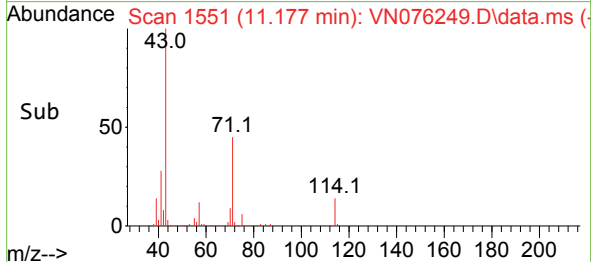
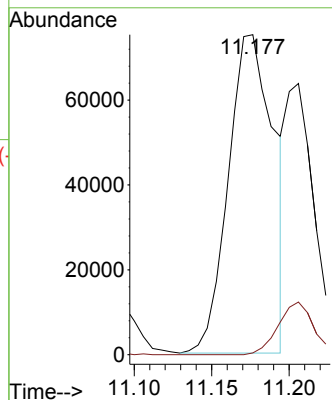
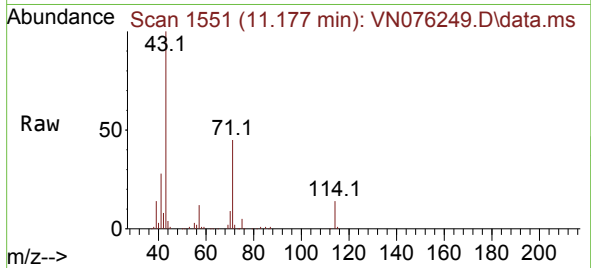




#59
2-Hexanone
Concen: 56.869 ug/l
RT: 11.177 min Scan# 1151
Delta R.T. -0.023 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

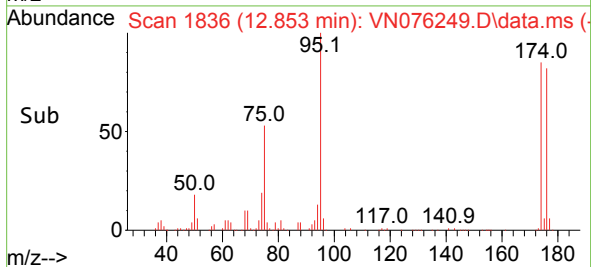
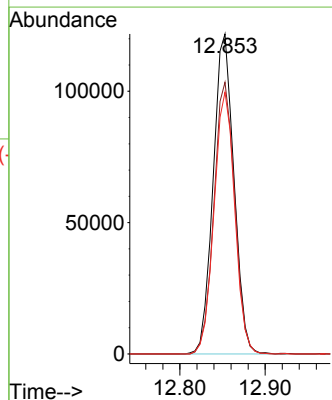
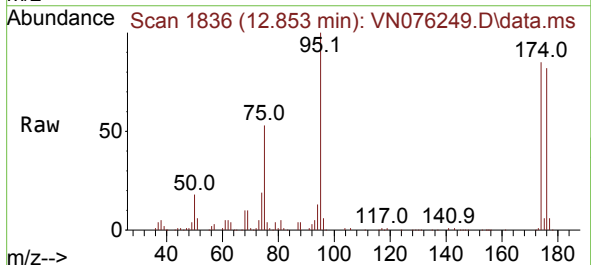
Instrument :
MSVOA_N
ClientSampleId :
TP-D

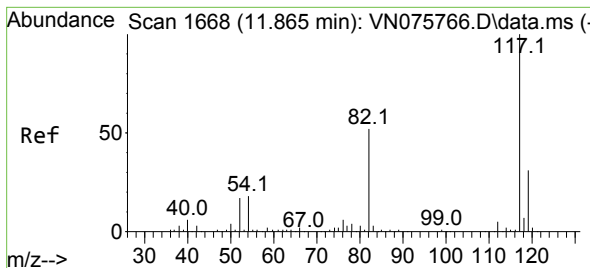
Tgt Ion: 43 Resp: 152893
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 48.059 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Tgt Ion: 95 Resp: 206118
Ion Ratio Lower Upper
95 100
174 85.4 0.0 171.6
176 81.5 0.0 169.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

TP-D

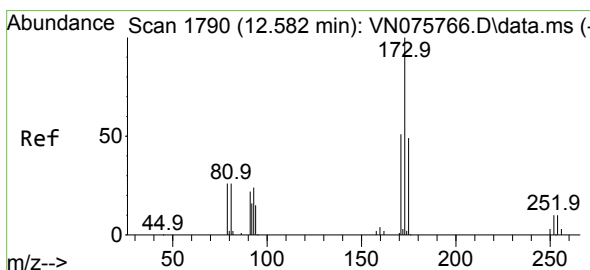
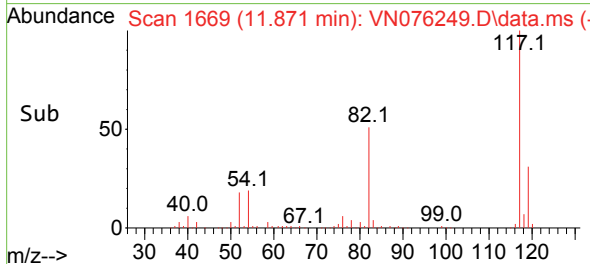
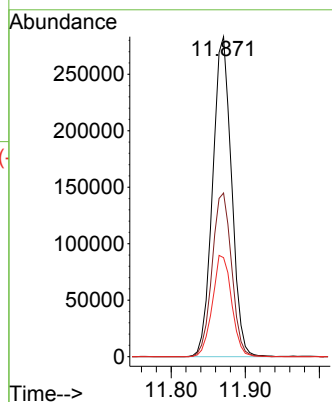
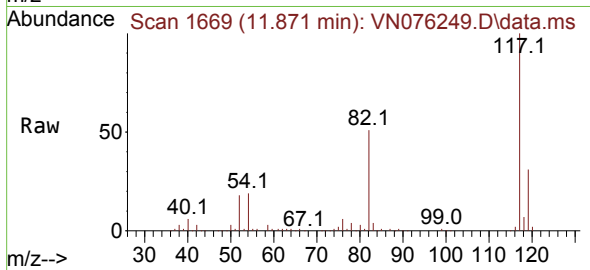
Tgt Ion:117 Resp: 500184

Ion Ratio Lower Upper

117 100

82 51.1 41.3 61.9

119 31.0 24.6 37.0



#71

Bromoform

Concen: 0.689 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

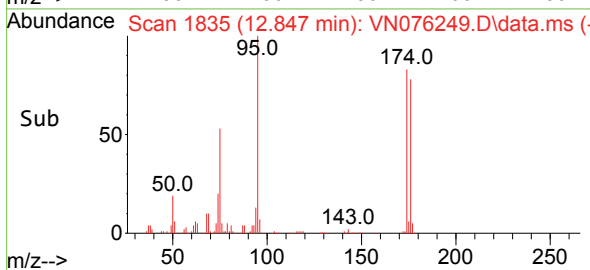
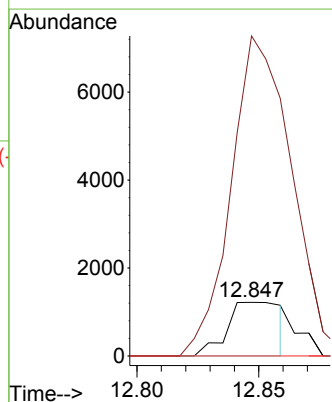
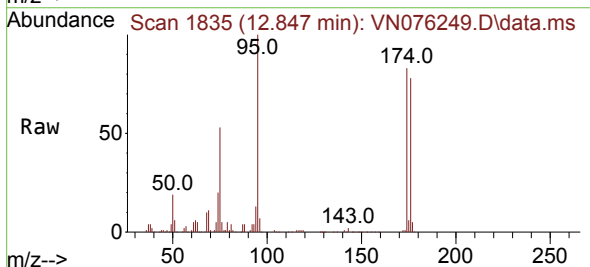
Tgt Ion:173 Resp: 1906

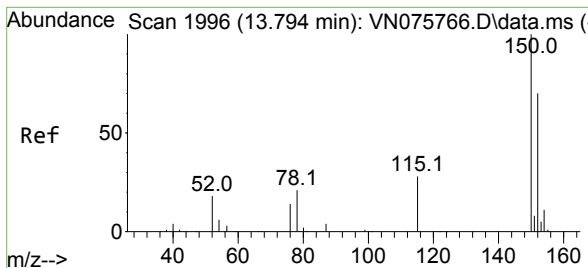
Ion Ratio Lower Upper

173 100

175 531.3 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: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

TP-D

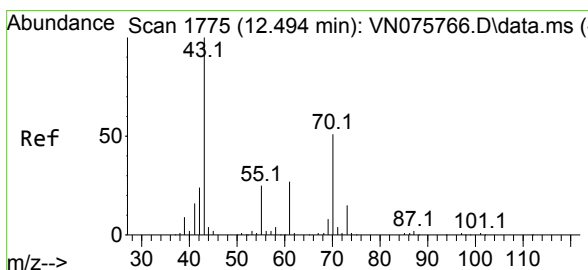
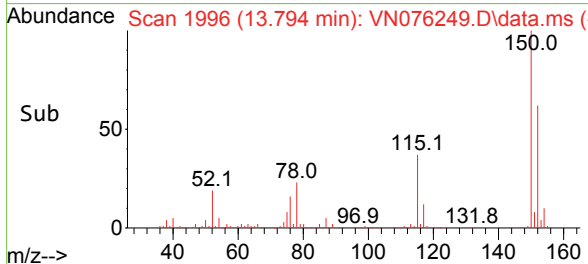
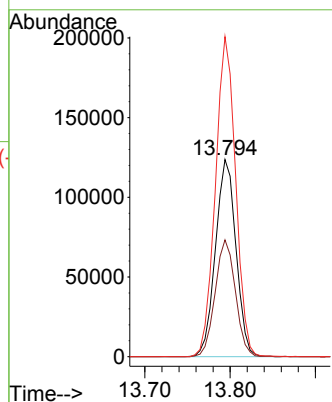
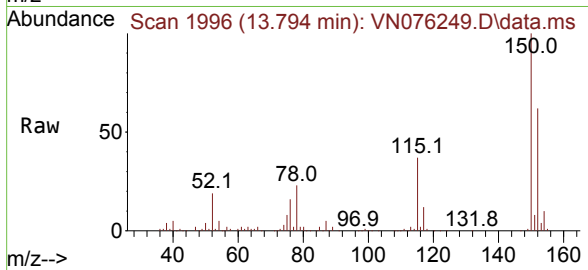
Tgt Ion:152 Resp: 206891

Ion Ratio Lower Upper

152 100

115 58.5 29.1 87.4

150 159.9 0.0 347.0



#74

N-ethyl acetate

Concen: 0.323 ug/l

RT: 12.488 min Scan# 1774

Delta R.T. -0.006 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Tgt Ion: 43 Resp: 1418

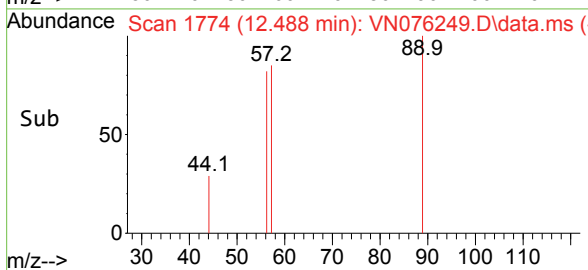
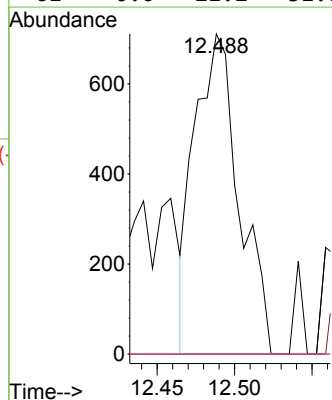
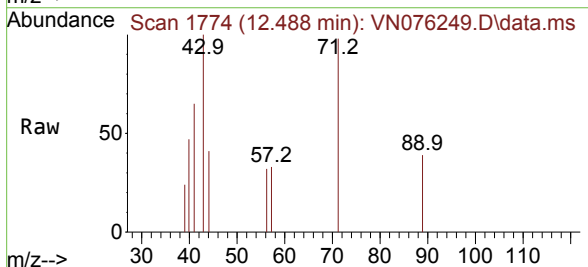
Ion Ratio Lower Upper

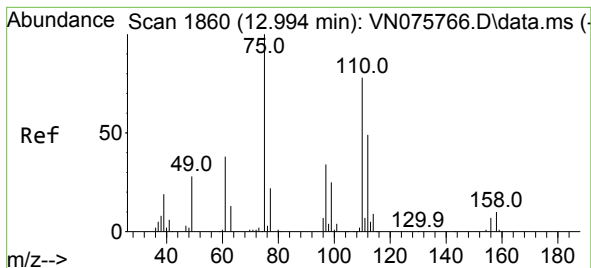
43 100

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: 25.806 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

Instrument :

MSVOA_N

ClientSampleId :

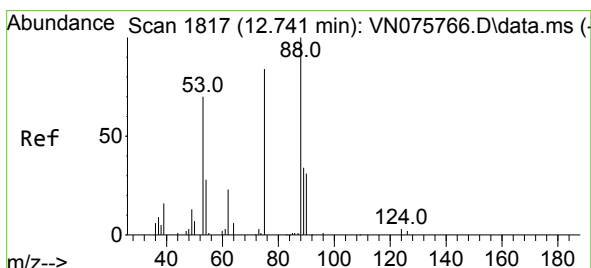
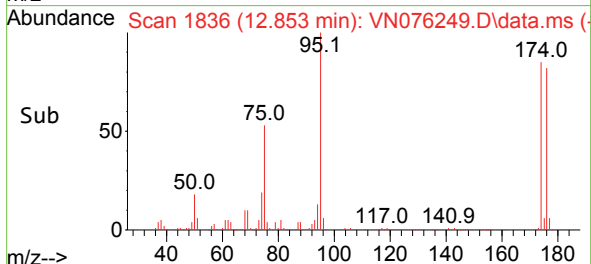
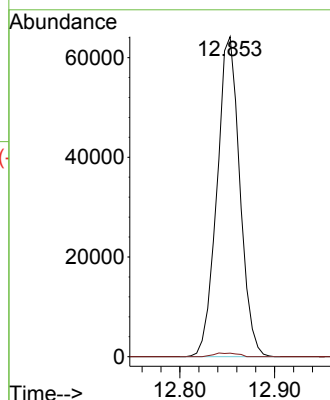
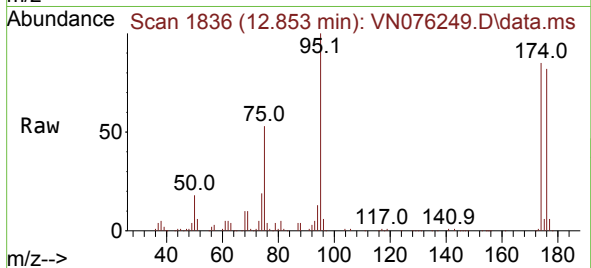
TP-D

Tgt Ion: 75 Resp: 107621

Ion Ratio Lower Upper

75 100

77 1.2 82.6 247.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.888 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN076249.D

Acq: 13 Jan 2023 15:27

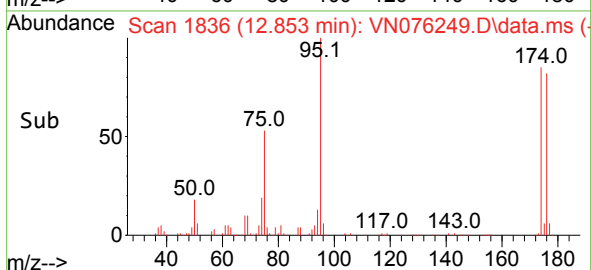
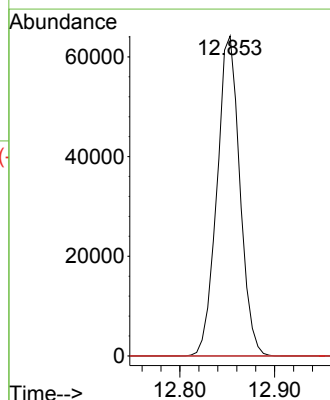
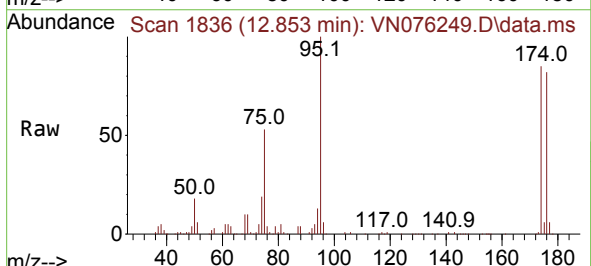
Tgt Ion: 75 Resp: 107621

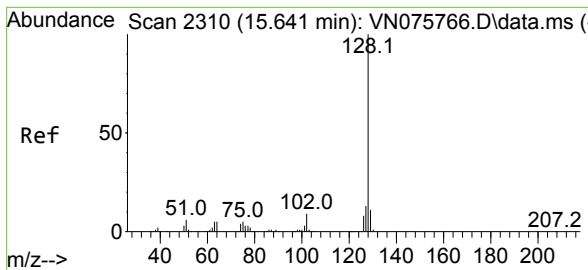
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 3.244 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076249.D
Acq: 13 Jan 2023 15:27

Instrument :
MSVOA_N
ClientSampleId :
TP-D

Tgt Ion:	128	Resp:	12556
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.4	15.6
129	11.1	8.7	13.1

