

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010923\
 Data File : VN076157.D
 Acq On : 09 Jan 2023 15:40
 Operator : JC\MD
 Sample : PB150106ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB150106ZHE#02

Quant Time: Jan 10 01:07:51 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)

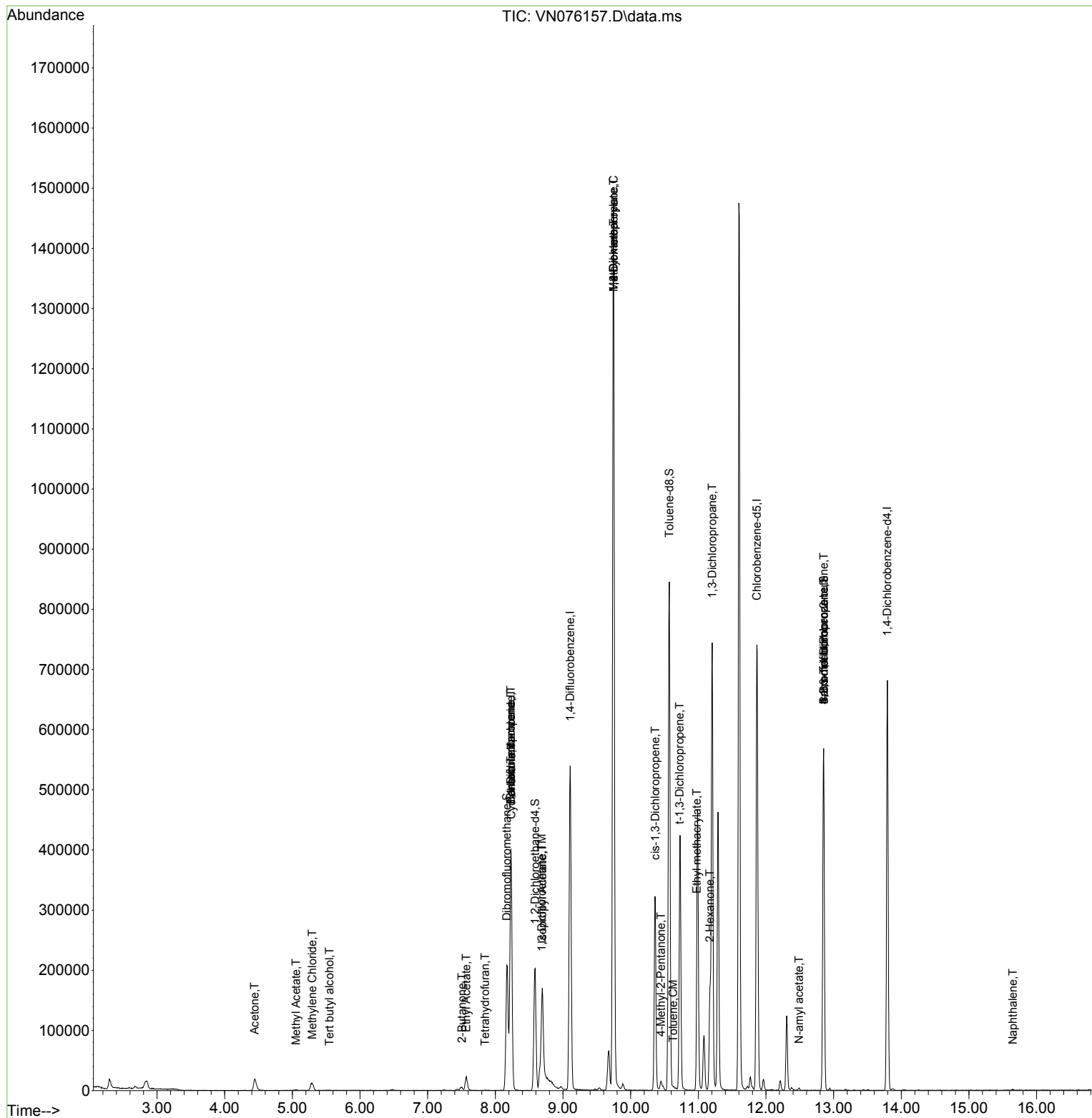
Internal Standards						
1) Pentafluorobenzene	8.230	168	304648	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	498282	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	452467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	185743	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	165442	49.918	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.840%		
35) Dibromofluoromethane	8.171	113	150455	48.757	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.520%		
50) Toluene-d8	10.571	98	594394	51.519	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.040%		
62) 4-Bromofluorobenzene	12.853	95	187979	49.192	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.380%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.547	59	159	0.339	ug/l #	72
16) Acetone	4.442	43	36700	32.123	ug/l	99
18) Methyl Acetate	5.053	43	2374	0.703	ug/l #	68
20) Methylene Chloride	5.294	84	10994	2.995	ug/l #	92
25) 2-Butanone	7.506	43	8472	5.296	ug/l	97
29) Tetrahydrofuran	7.847	42	603	0.601	ug/l #	44
31) Cyclohexane	8.235	56	6108	1.287	ug/l #	51
36) 1,1-Dichloropropene	8.230	75	21977	5.361	ug/l #	49
37) Ethyl Acetate	7.571	43	31855	9.675	ug/l	99
38) Carbon Tetrachloride	8.230	117	31239	6.809	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	994	0.236	ug/l #	72
43) Isopropyl Acetate	8.694	43	226930	41.781	ug/l #	76
45) 1,2-Dichloropropane	9.747	63	1941	0.631	ug/l #	43
48) Methyl methacrylate	9.747	41	132724	54.255	ug/l #	34
49) 1,4-Dioxane	9.747	88	209	3.475	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	15227	4.636	ug/l #	69
52) Toluene	10.629	92	1983	0.241	ug/l	93
53) t-1,3-Dichloropropene	10.724	75	1147	0.262	ug/l #	79
54) cis-1,3-Dichloropropene	10.365	75	63329	13.163	ug/l #	65
56) Ethyl methacrylate	10.976	69	1677	0.391	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9060	1.708	ug/l #	42
59) 2-Hexanone	11.171	43	126889	52.971	ug/l #	20
71) Bromoform	12.853	173	1681	0.672	ug/l #	1
74) N-amyl acetate	12.488	43	2253	0.572	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	98251	26.241	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	98251	94.456	ug/l #	12
95) Naphthalene	15.647	128	1633	2.332	ug/l #	79

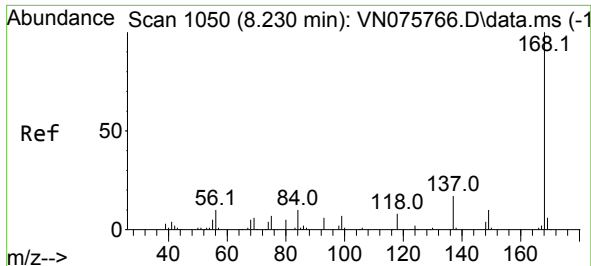
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

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Quant Title : SW846 8260
QLast Update : Wed Dec 14 13:03:41 2022
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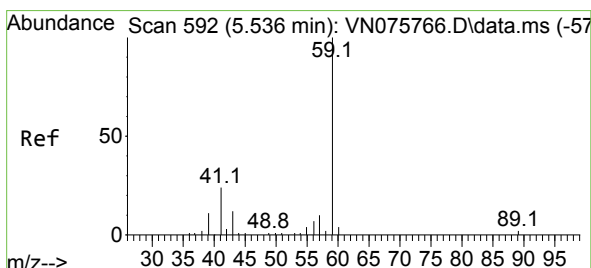
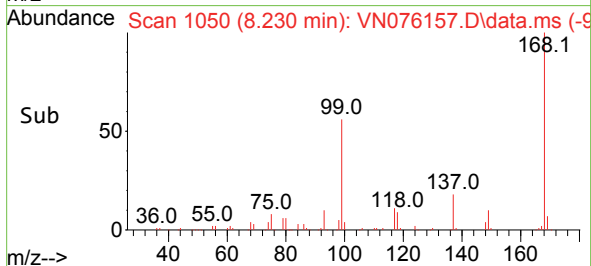
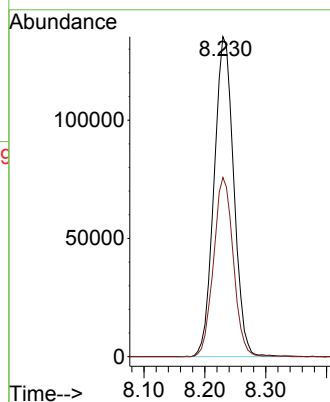
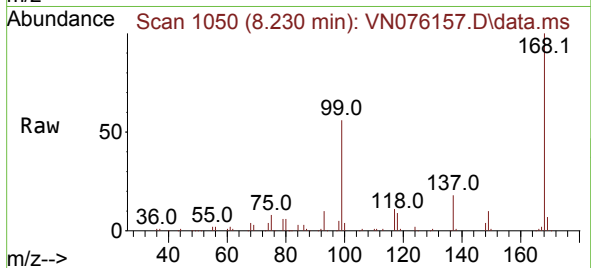




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

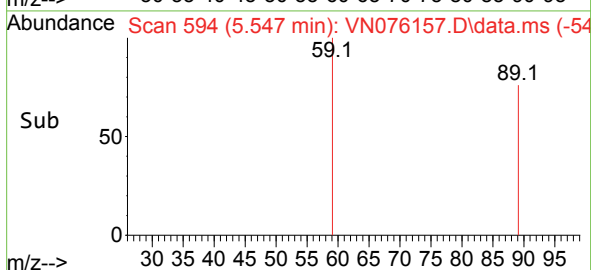
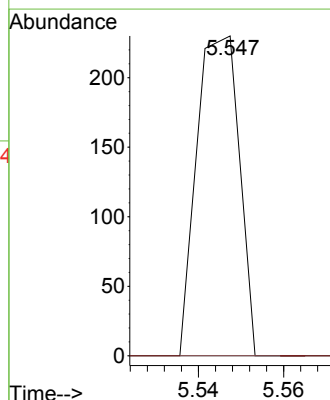
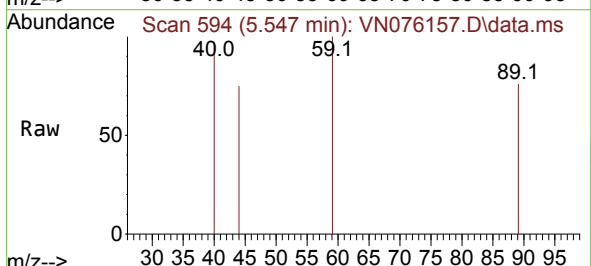
Instrument :
MSVOA_N
ClientSampleId :
PB150106ZHE#02

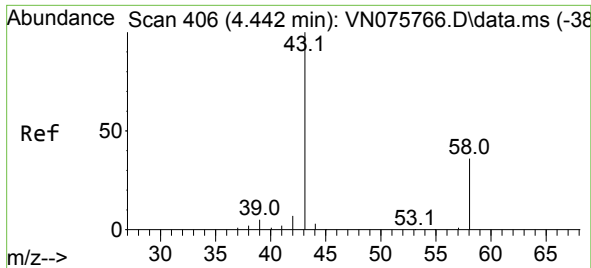
Tgt Ion:168 Resp: 304648
Ion Ratio Lower Upper
168 100
99 56.0 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.339 ug/l
RT: 5.547 min Scan# 594
Delta R.T. 0.012 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion: 59 Resp: 159
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 32.123 ug/l

RT: 4.442 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

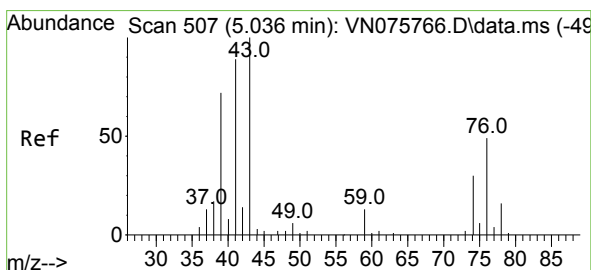
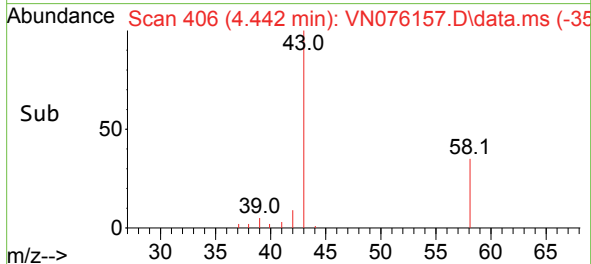
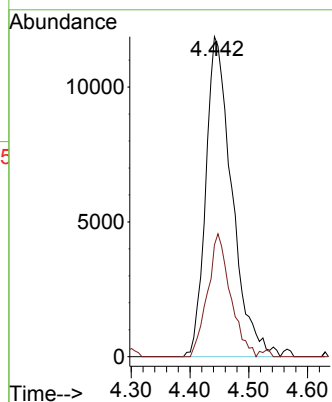
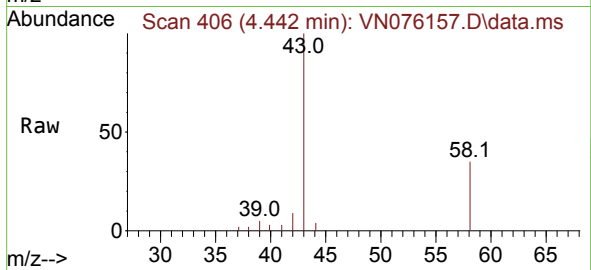
PB150106ZHE#02

Tgt Ion: 43 Resp: 36700

Ion Ratio Lower Upper

43 100

58 35.0 28.6 43.0



#18

Methyl Acetate

Concen: 0.703 ug/l

RT: 5.053 min Scan# 510

Delta R.T. 0.018 min

Lab File: VN076157.D

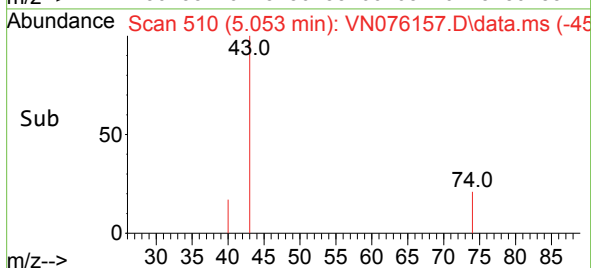
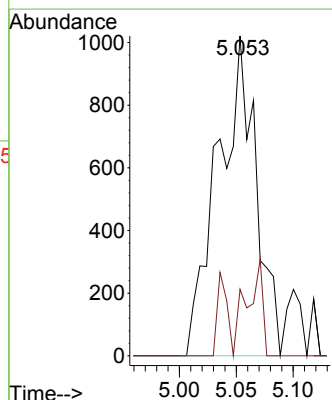
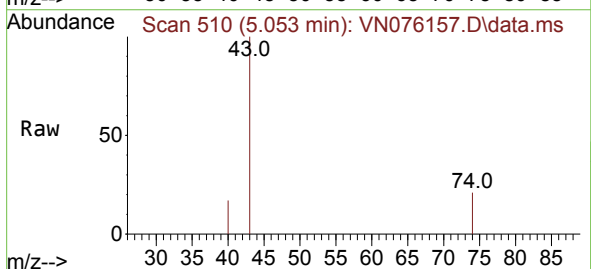
Acq: 09 Jan 2023 15:40

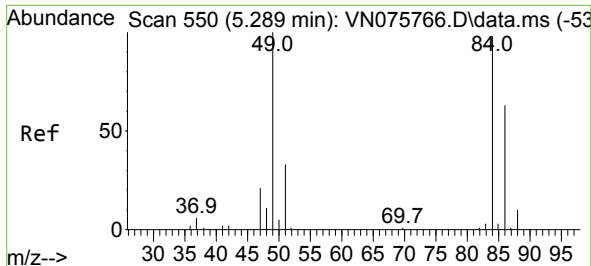
Tgt Ion: 43 Resp: 2374

Ion Ratio Lower Upper

43 100

74 12.5 23.6 35.4#

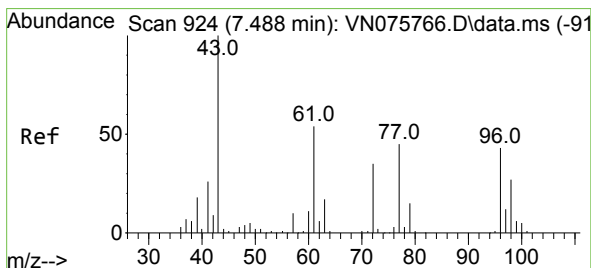
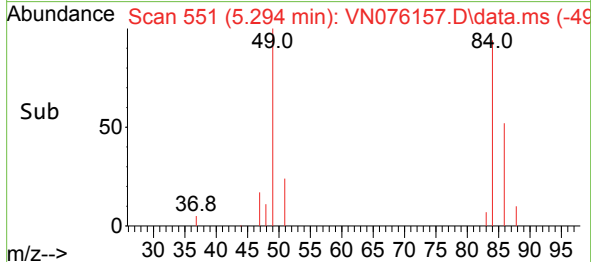
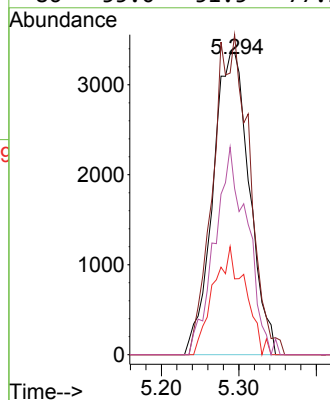
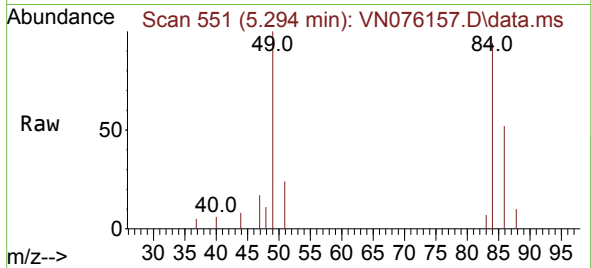




#20
Methylene Chloride
Concen: 2.995 ug/l
RT: 5.294 min Scan# 511
Delta R.T. 0.005 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

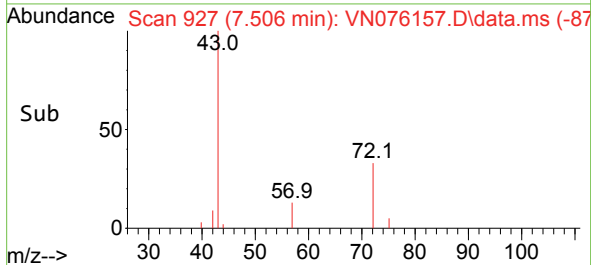
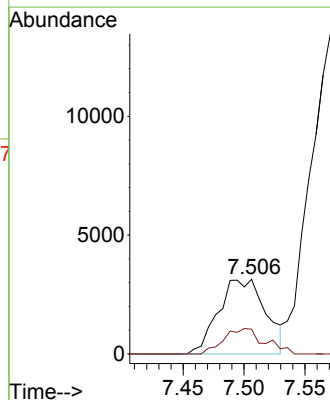
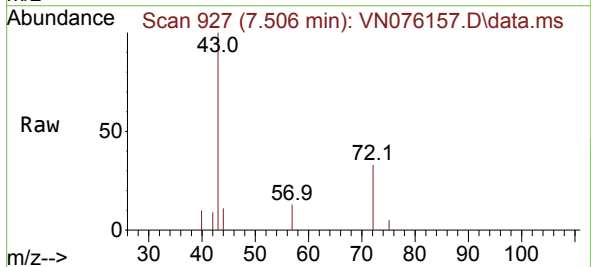
Instrument :
MSVOA_N
ClientSampleId :
PB150106ZHE#02

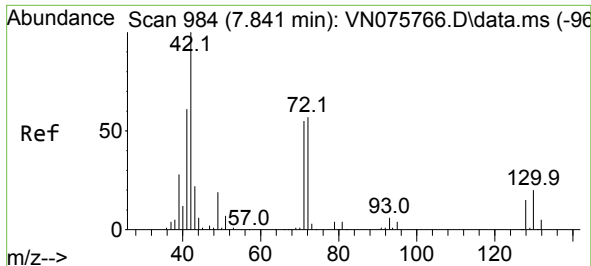
Tgt Ion:	84	Resp:	10994
Ion	Ratio	Lower	Upper
84	100		
49	105.8	81.8	122.6
51	25.1	26.7	40.1#
86	55.0	51.5	77.3



#25
2-Butanone
Concen: 5.296 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.018 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion:	43	Resp:	8472
Ion	Ratio	Lower	Upper
43	100		
72	33.2	28.0	42.0





#29

Tetrahydrofuran

Concen: 0.601 ug/l

RT: 7.847 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB150106ZHE#02

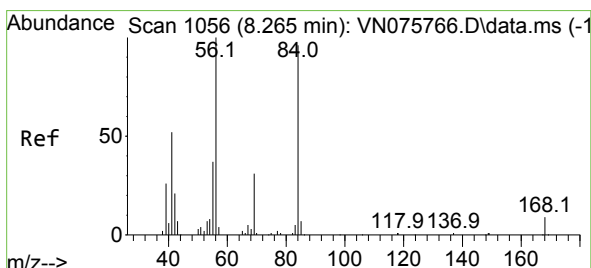
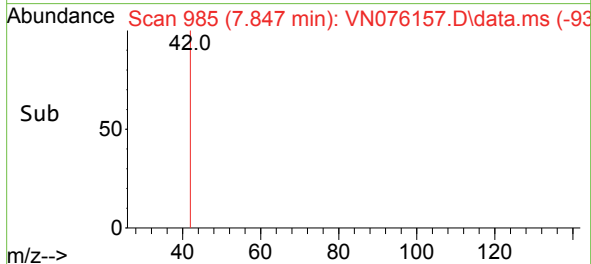
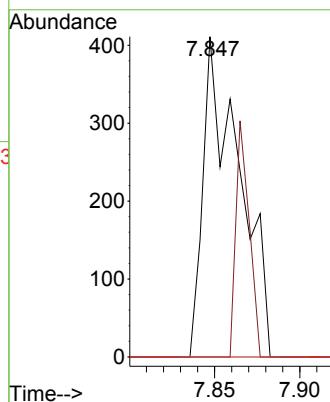
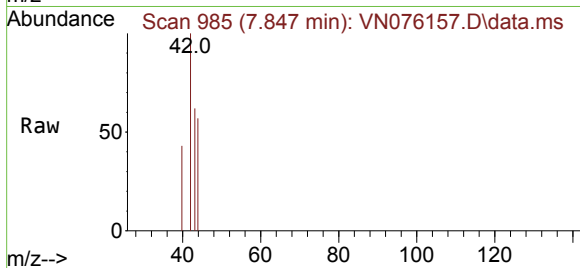
Tgt Ion: 42 Resp: 603

Ion Ratio Lower Upper

42 100

72 27.2 44.5 66.7#

71 0.0 41.0 61.6#



#31

Cyclohexane

Concen: 1.287 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.029 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

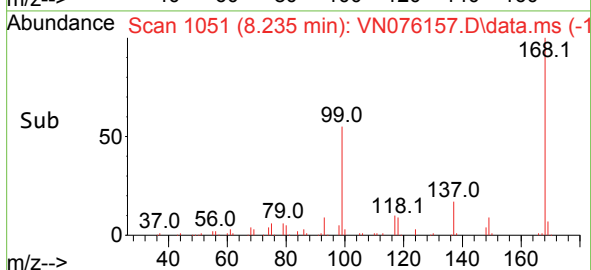
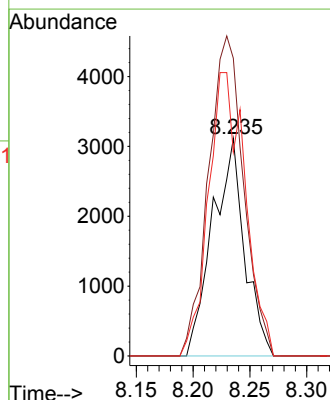
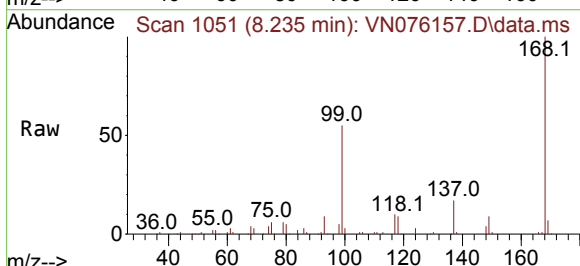
Tgt Ion: 56 Resp: 6108

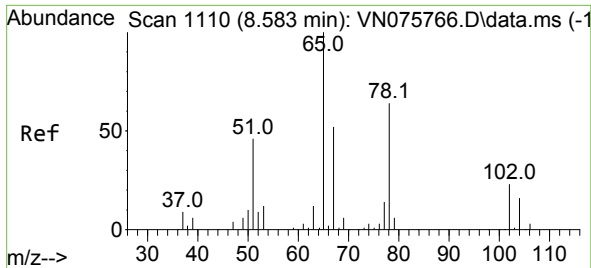
Ion Ratio Lower Upper

56 100

69 136.9 24.7 37.1#

84 93.7 76.5 114.7

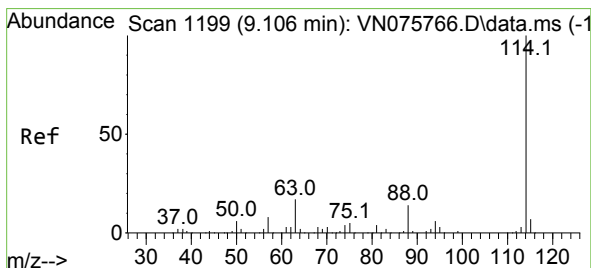
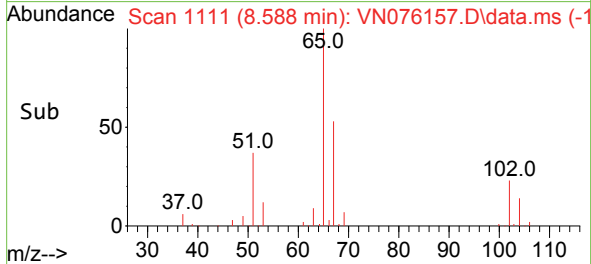
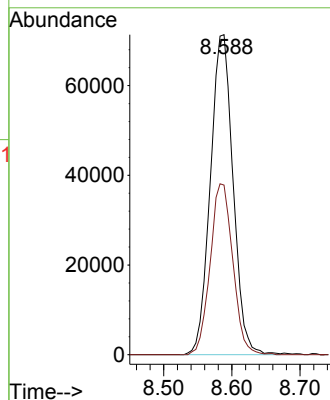
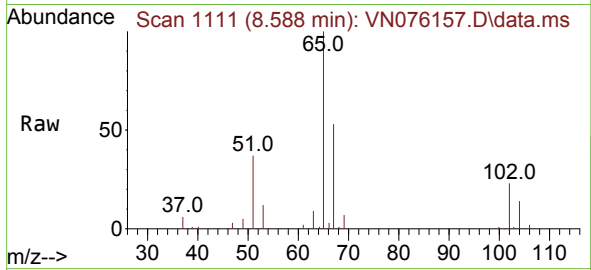




#33
 1,2-Dichloroethane-d4
 Concen: 49.918 ug/l
 RT: 8.588 min Scan# 1110
 Delta R.T. 0.006 min
 Lab File: VN076157.D
 Acq: 09 Jan 2023 15:40

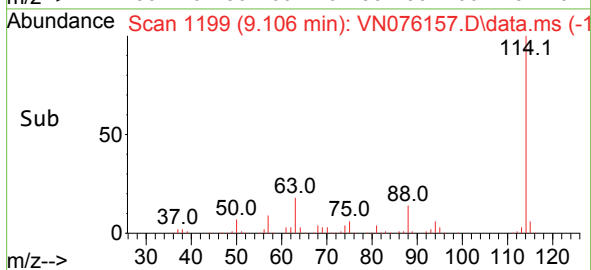
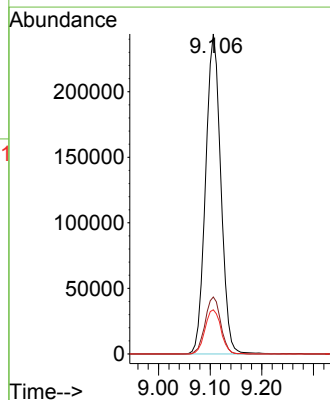
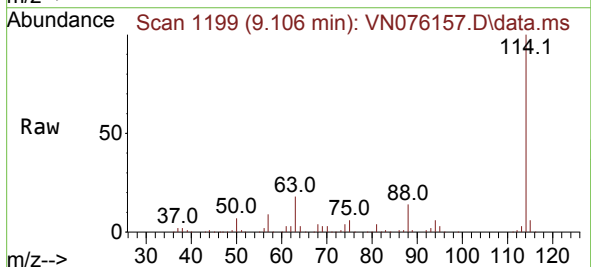
Instrument :
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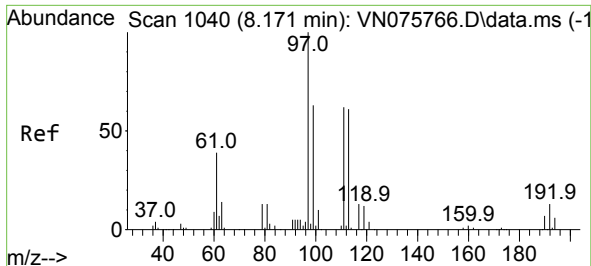
Tgt Ion: 65 Resp: 165442
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1199
 Delta R.T. -0.000 min
 Lab File: VN076157.D
 Acq: 09 Jan 2023 15:40

Tgt Ion: 114 Resp: 498282
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 34.4
 88 13.8 0.0 28.8

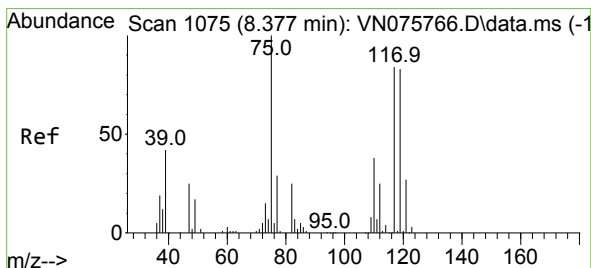
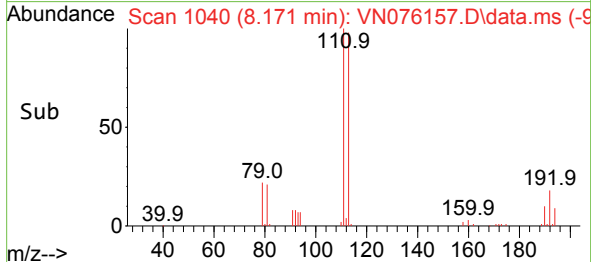
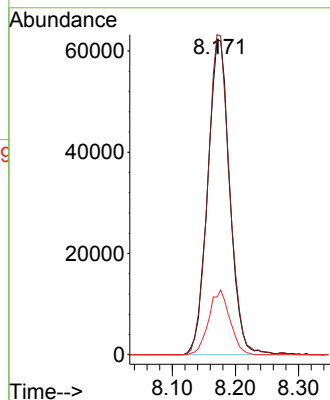
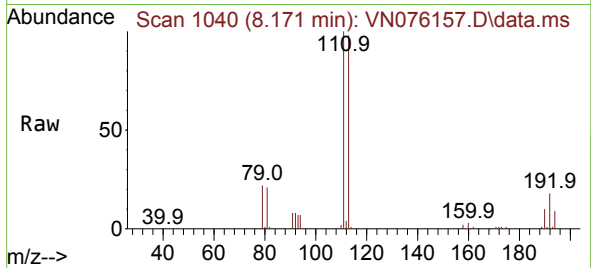




#35
Dibromofluoromethane
Concen: 48.757 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

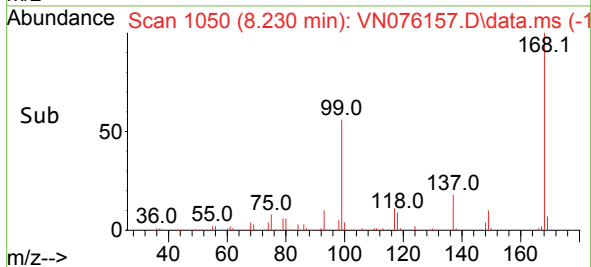
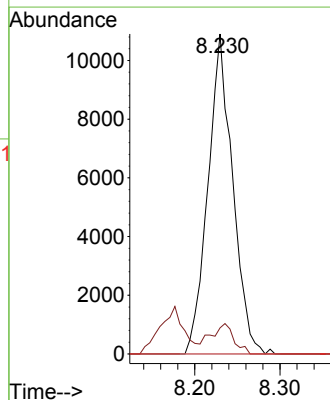
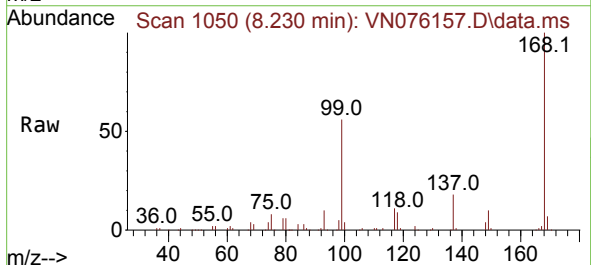
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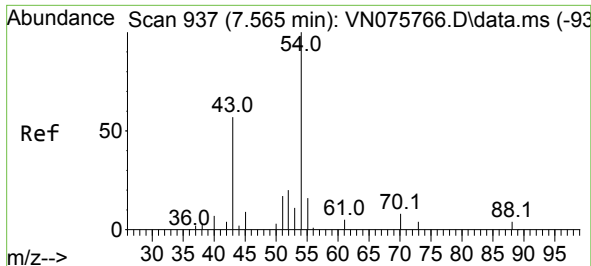
Tgt Ion:113 Resp: 150455
Ion Ratio Lower Upper
113 100
111 101.1 83.4 125.2
192 19.8 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.361 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion: 75 Resp: 21977
Ion Ratio Lower Upper
75 100
110 8.8 18.8 56.4#
77 0.0 24.1 36.1#

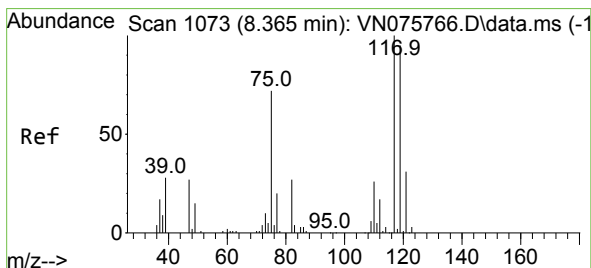
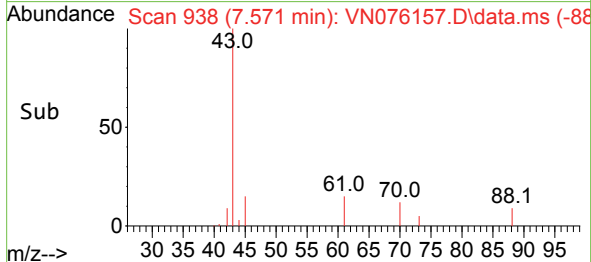
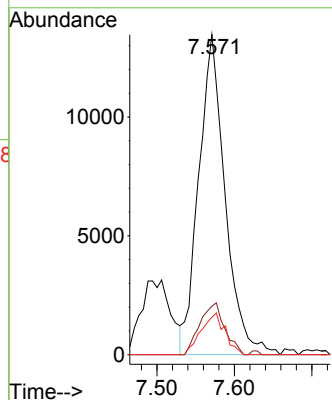
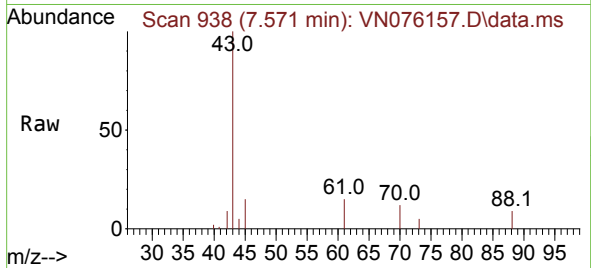




#37
Ethyl Acetate
Concen: 9.675 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

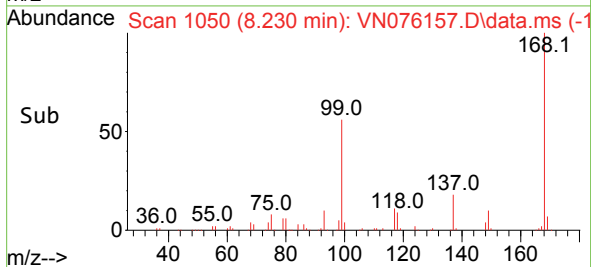
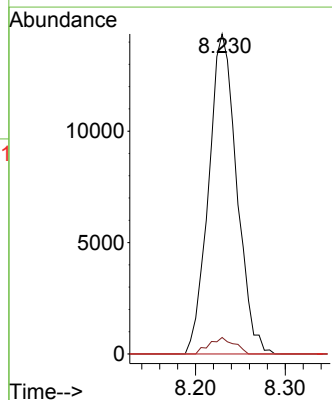
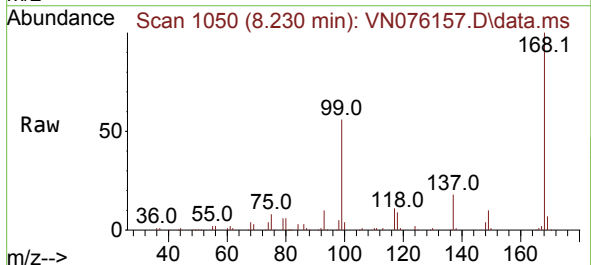
Instrument :
MSVOA_N
ClientSampleId :
PB150106ZHE#02

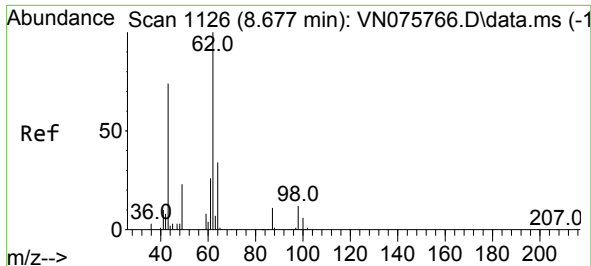
Tgt Ion: 43	Resp: 31855
Ion Ratio	Lower Upper
43 100	
61 15.3	13.0 19.4
70 11.8	9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.809 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion: 117	Resp: 31239
Ion Ratio	Lower Upper
117 100	
119 5.2	76.1 114.1#
121 0.0	24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.236 ug/l

RT: 8.688 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

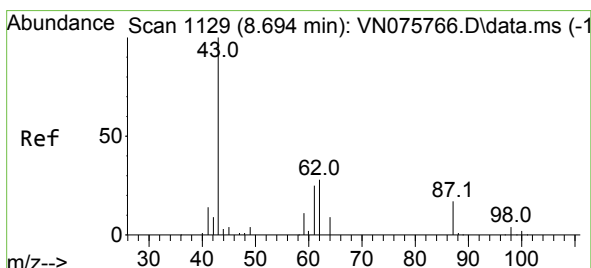
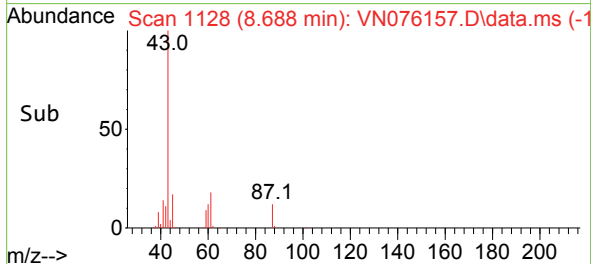
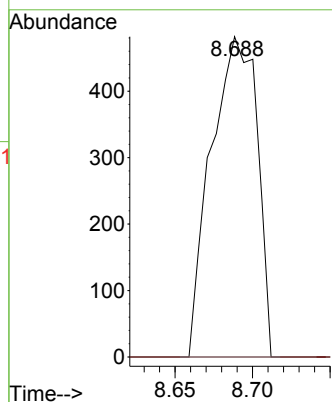
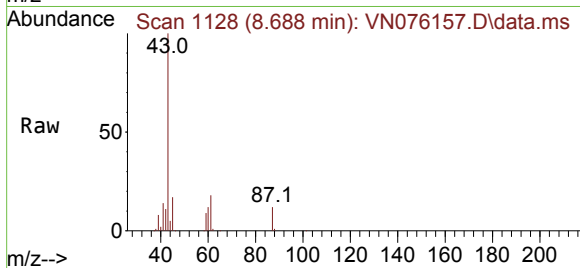
PB150106ZHE#02

Tgt Ion: 62 Resp: 994

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 41.781 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

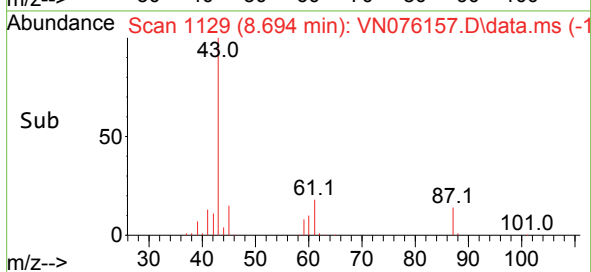
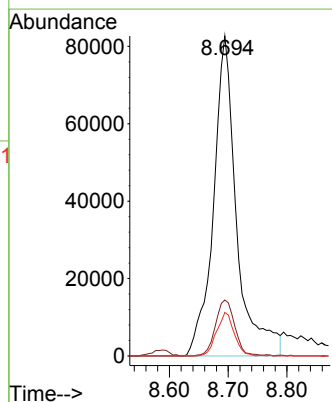
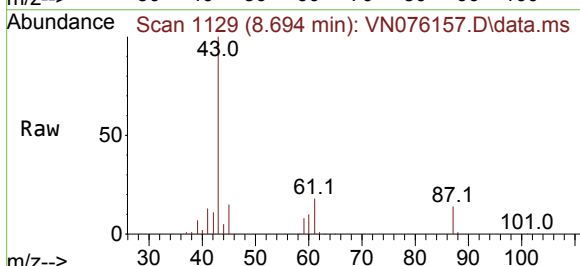
Tgt Ion: 43 Resp: 226930

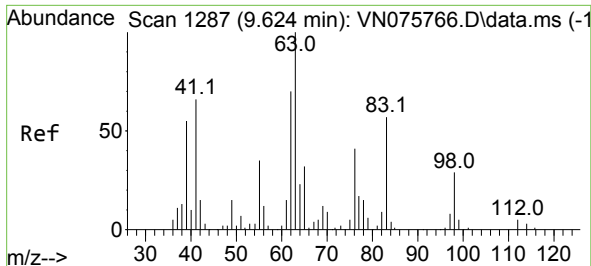
Ion Ratio Lower Upper

43 100

61 14.5 24.2 36.4#

87 10.3 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.631 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.124 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

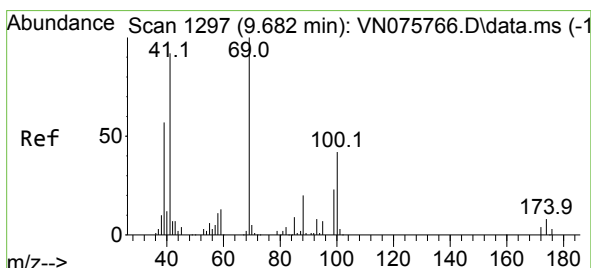
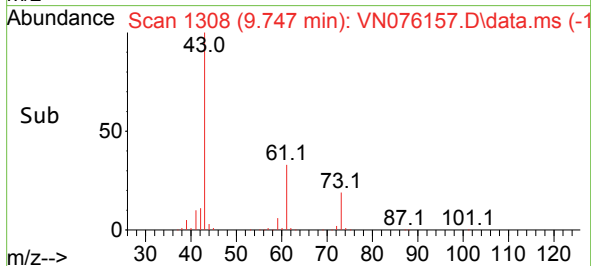
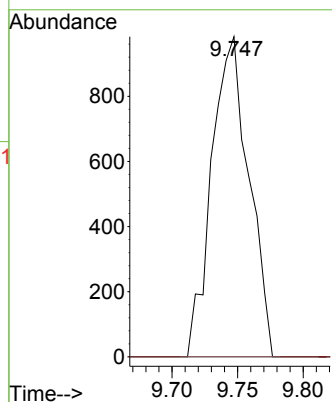
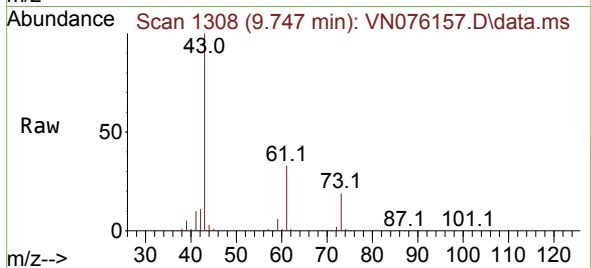
PB150106ZHE#02

Tgt Ion: 63 Resp: 1941

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 54.255 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.065 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

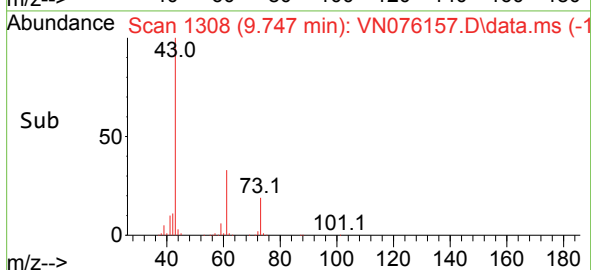
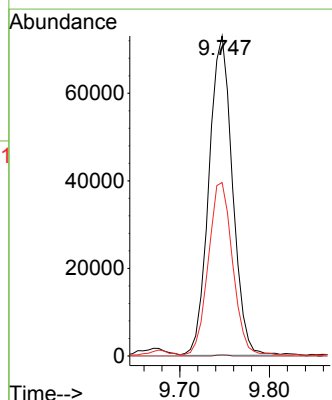
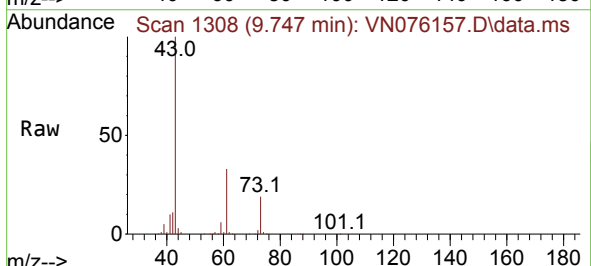
Tgt Ion: 41 Resp: 132724

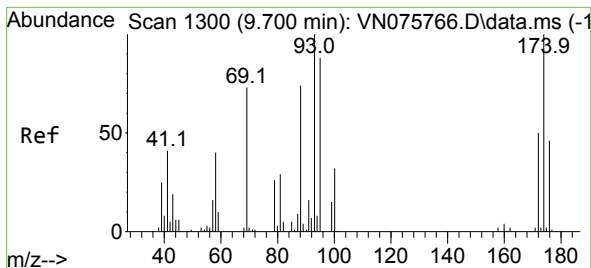
Ion Ratio Lower Upper

41 100

69 0.2 81.9 122.9#

39 56.8 51.6 77.4





#49

1,4-Dioxane

Concen: 3.475 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB150106ZHE#02

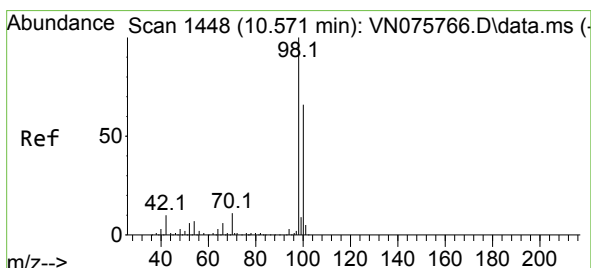
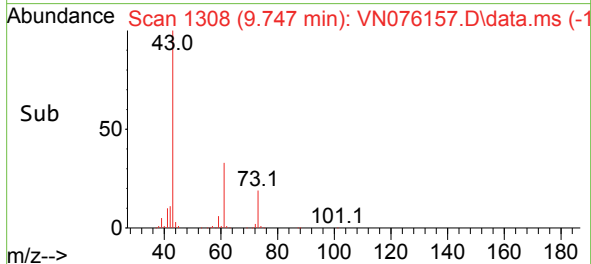
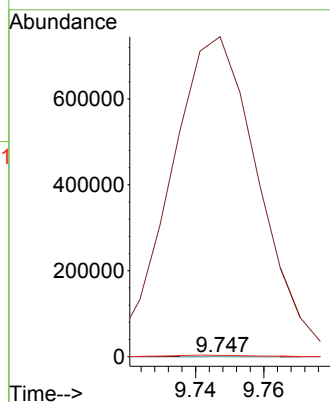
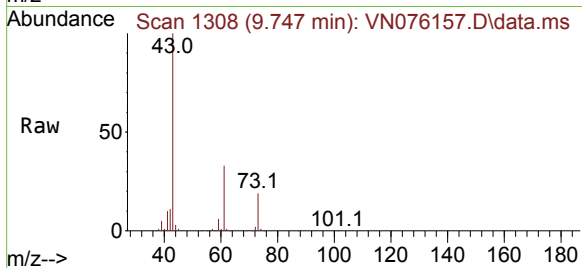
Tgt Ion: 88 Resp: 209

Ion Ratio Lower Upper

88 100

43 654586.6 17.1 25.7#

58 3109.1 47.8 71.8#



#50

Toluene-d8

Concen: 51.519 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076157.D

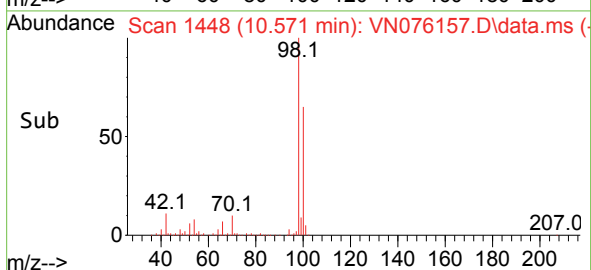
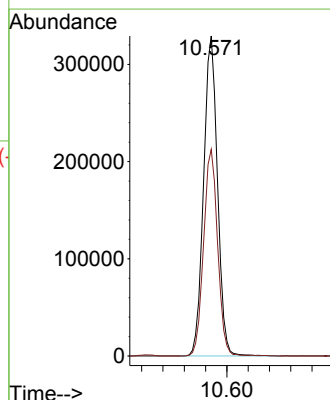
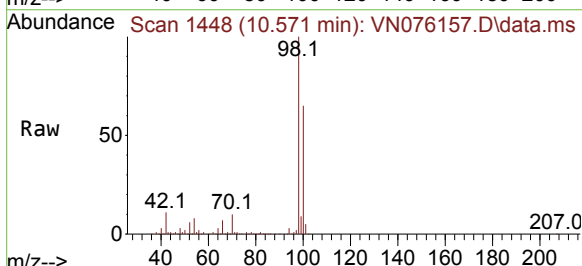
Acq: 09 Jan 2023 15:40

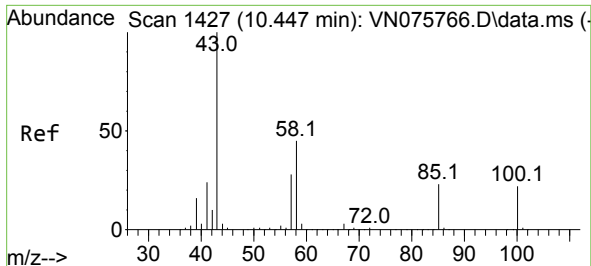
Tgt Ion: 98 Resp: 594394

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 4.636 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

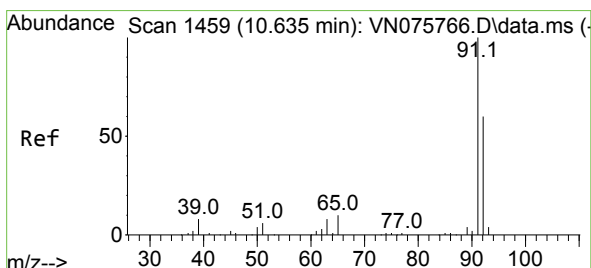
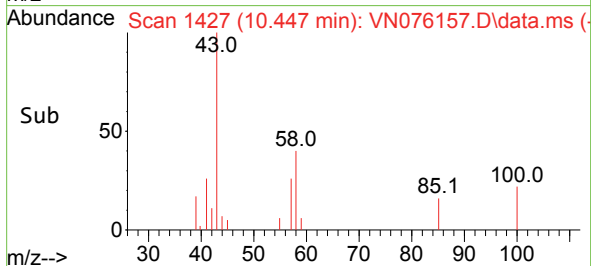
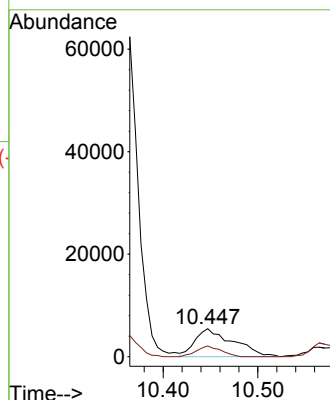
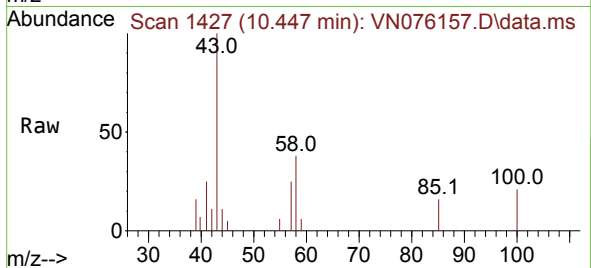
PB150106ZHE#02

Tgt Ion: 43 Resp: 15227

Ion Ratio Lower Upper

43 100

58 24.5 35.5 53.3#



#52

Toluene

Concen: 0.241 ug/l

RT: 10.629 min Scan# 1458

Delta R.T. -0.006 min

Lab File: VN076157.D

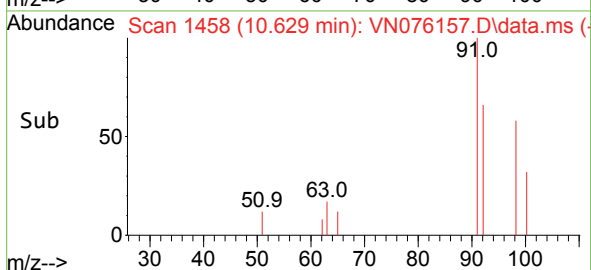
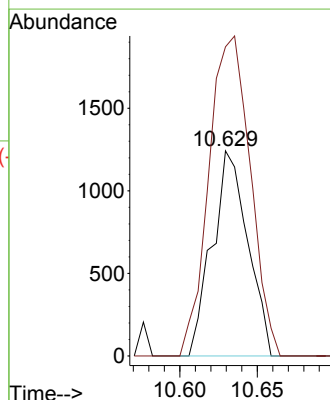
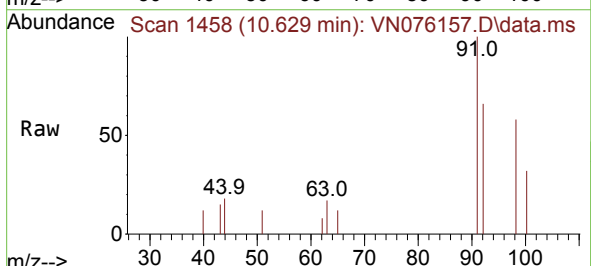
Acq: 09 Jan 2023 15:40

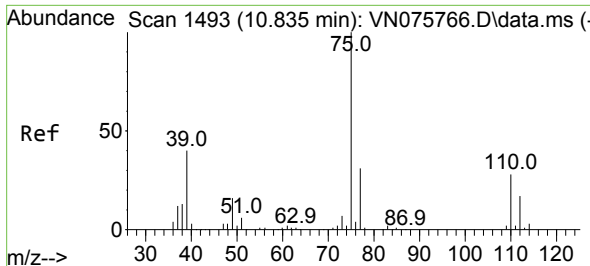
Tgt Ion: 92 Resp: 1983

Ion Ratio Lower Upper

92 100

91 181.8 137.3 205.9

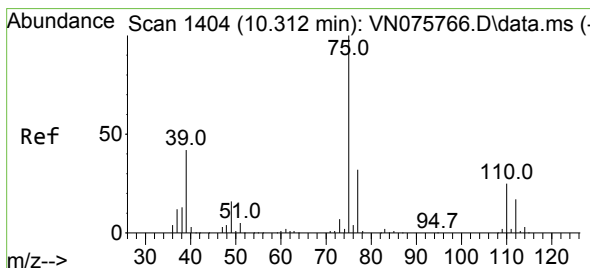
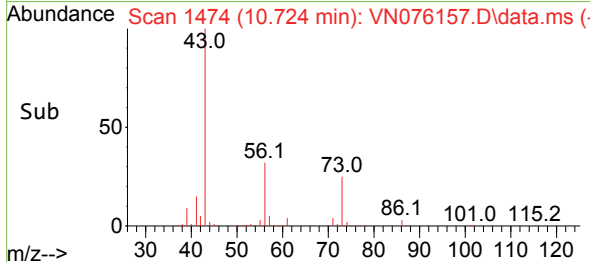
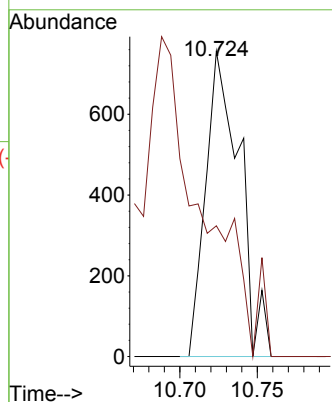
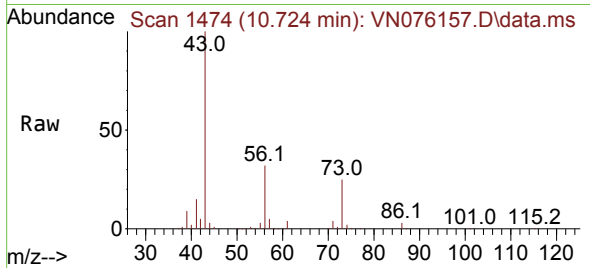




#53
 t-1,3-Dichloropropene
 Concen: 0.262 ug/l
 RT: 10.724 min Scan# 1412
 Delta R.T. -0.112 min
 Lab File: VN076157.D
 Acq: 09 Jan 2023 15:40

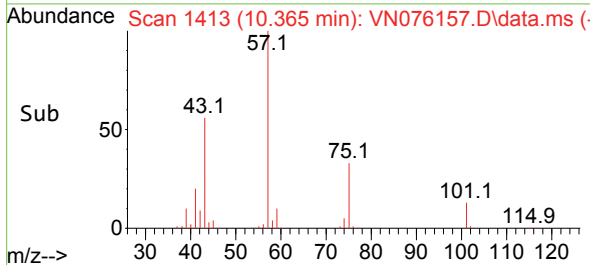
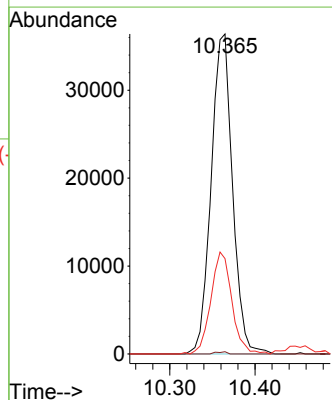
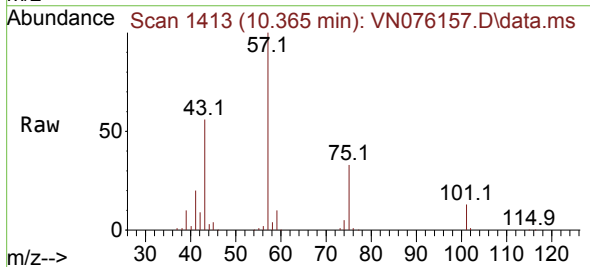
Instrument :
 MSVOA_N
 ClientSampleId :
 PB150106ZHE#02

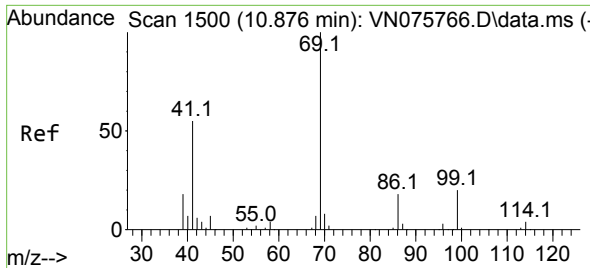
Tgt Ion: 75 Resp: 1147
 Ion Ratio Lower Upper
 75 100
 77 42.9 24.9 37.3#



#54
 cis-1,3-Dichloropropene
 Concen: 13.163 ug/l
 RT: 10.365 min Scan# 1413
 Delta R.T. 0.053 min
 Lab File: VN076157.D
 Acq: 09 Jan 2023 15:40

Tgt Ion: 75 Resp: 63329
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.8 38.8#
 39 29.8 33.4 50.2#

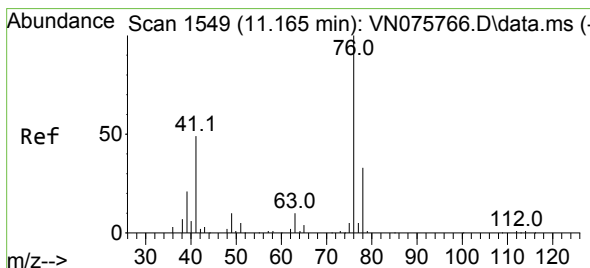
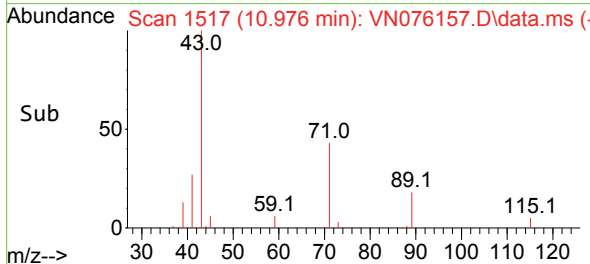
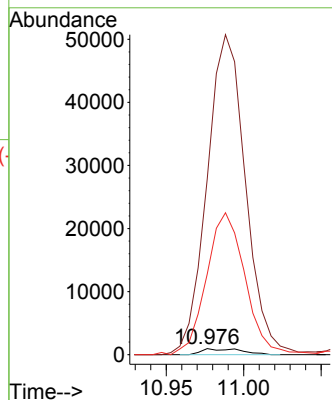
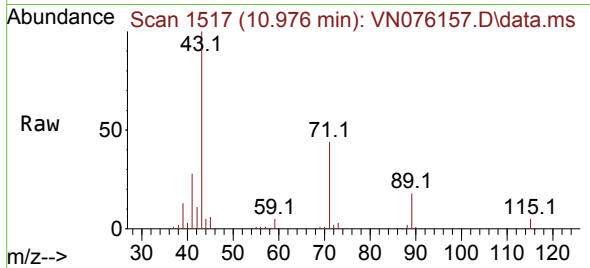




#56
Ethyl methacrylate
Concen: 0.391 ug/l
RT: 10.976 min Scan# 1517
Delta R.T. 0.100 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

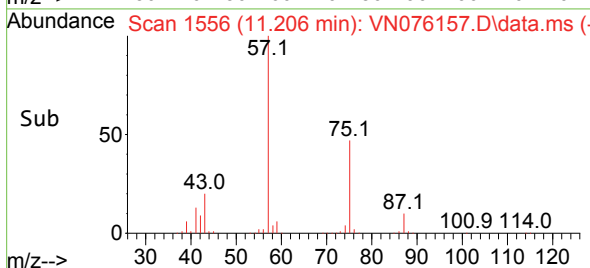
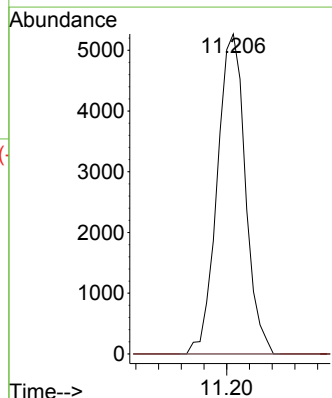
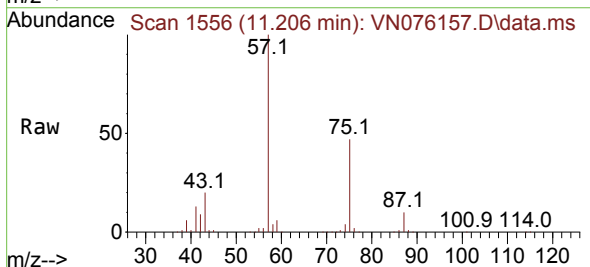
Instrument :
MSVOA_N
ClientSampleId :
PB150106ZHE#02

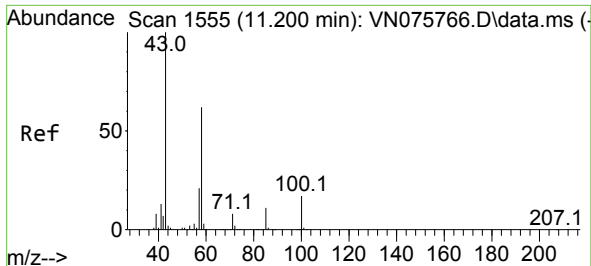
Tgt Ion: 69 Resp: 1677
Ion Ratio Lower Upper
69 100
41 5245.9 44.2 66.4#
39 2332.6 26.4 39.6#



#57
1,3-Dichloropropane
Concen: 1.708 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion: 76 Resp: 9060
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

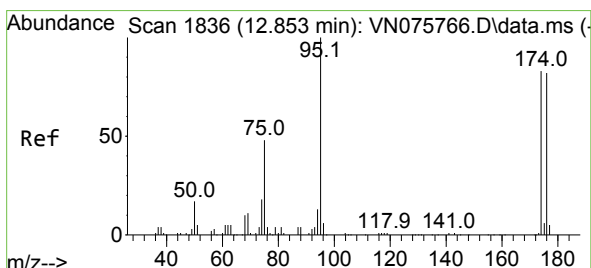
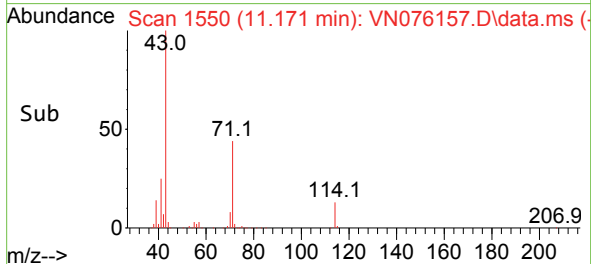
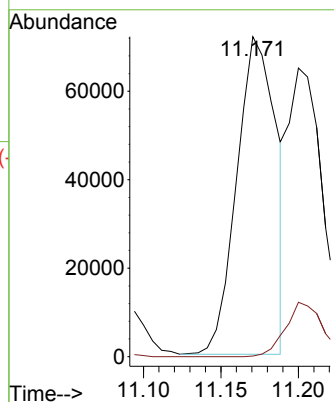
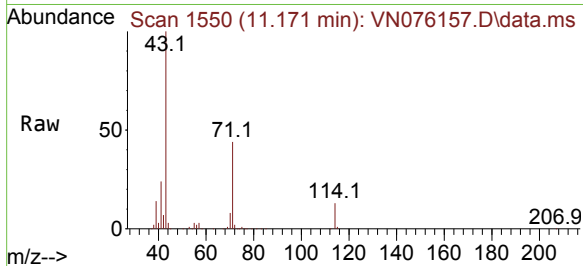




#59
2-Hexanone
Concen: 52.971 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

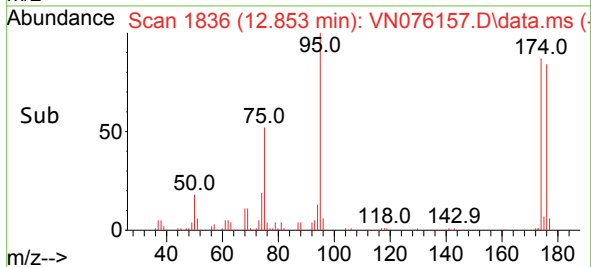
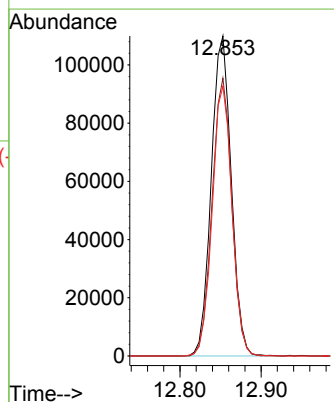
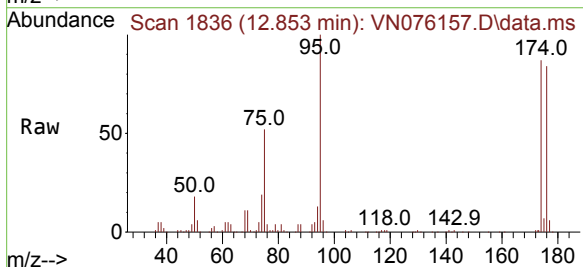
Instrument :
MSVOA_N
ClientSampleId :
PB150106ZHE#02

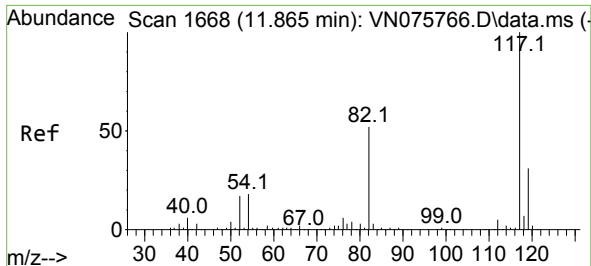
Tgt Ion: 43 Resp: 126889
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 49.192 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion: 95 Resp: 187979
Ion Ratio Lower Upper
95 100
174 85.7 0.0 171.6
176 83.3 0.0 169.2

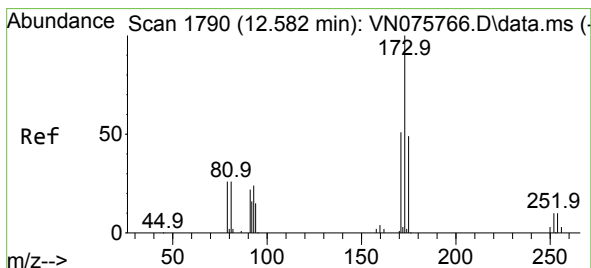
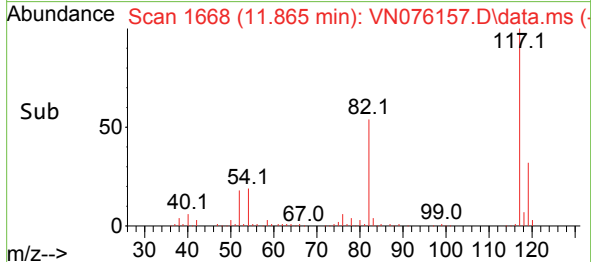
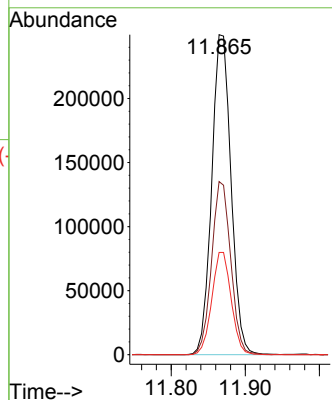
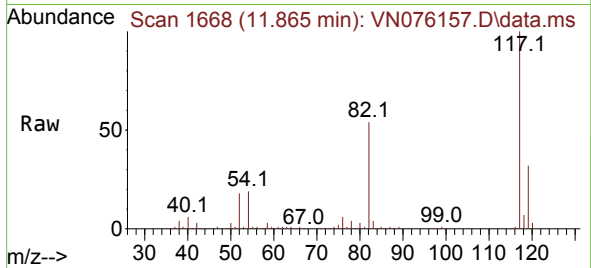




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

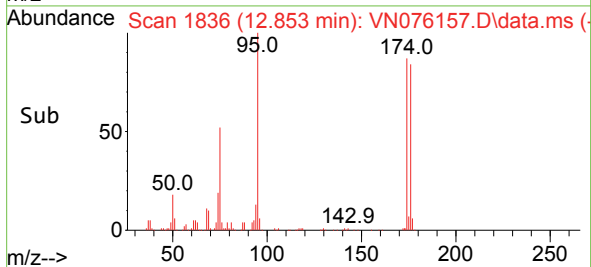
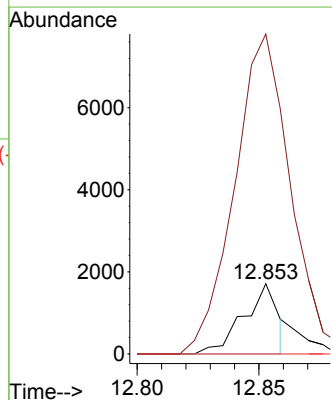
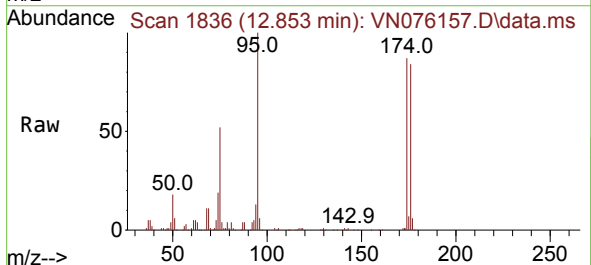
Instrument :
MSVOA_N
ClientSampleId :
PB150106ZHE#02

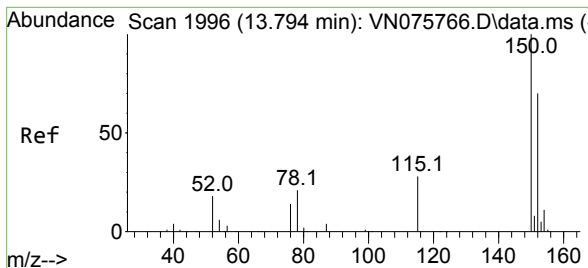
Tgt Ion:117 Resp: 452467
Ion Ratio Lower Upper
117 100
82 54.1 41.3 61.9
119 31.9 24.6 37.0



#71
Bromoform
Concen: 0.672 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076157.D
Acq: 09 Jan 2023 15:40

Tgt Ion:173 Resp: 1681
Ion Ratio Lower Upper
173 100
175 610.9 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: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB150106ZHE#02

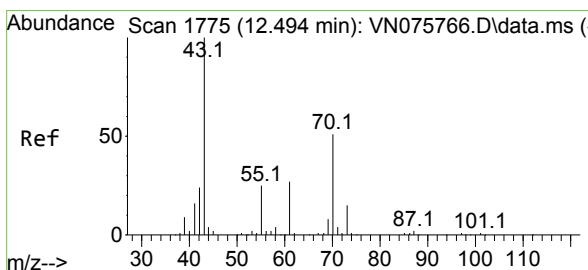
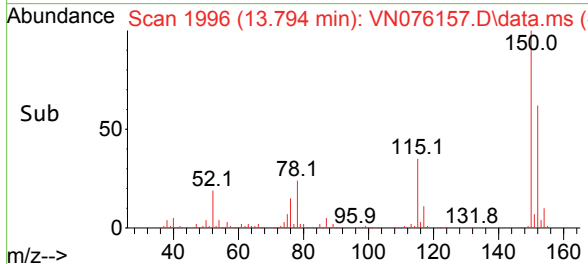
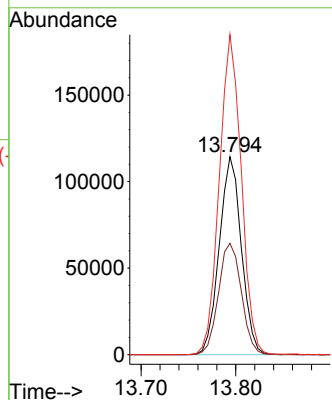
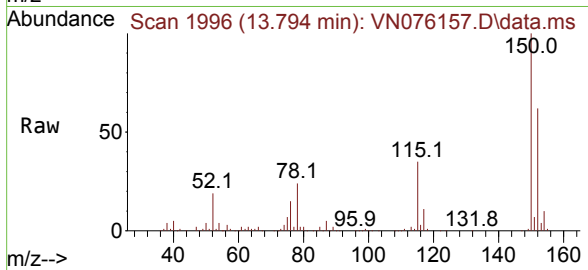
Tgt Ion:152 Resp: 185743

Ion Ratio Lower Upper

152 100

115 58.3 29.1 87.4

150 160.5 0.0 347.0



#74

N-ethyl acetate

Concen: 0.572 ug/l

RT: 12.488 min Scan# 1774

Delta R.T. -0.006 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Tgt Ion: 43 Resp: 2253

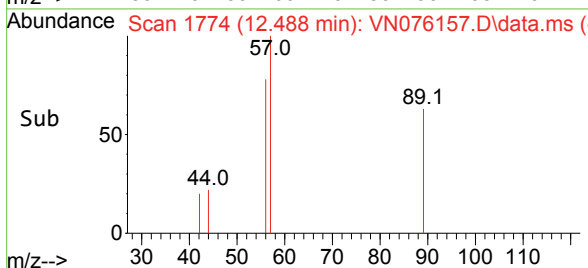
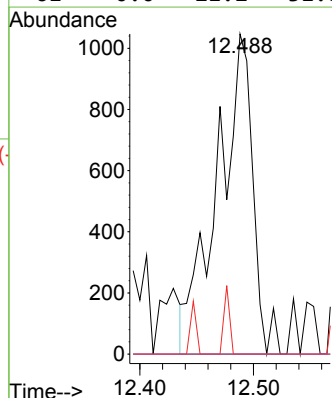
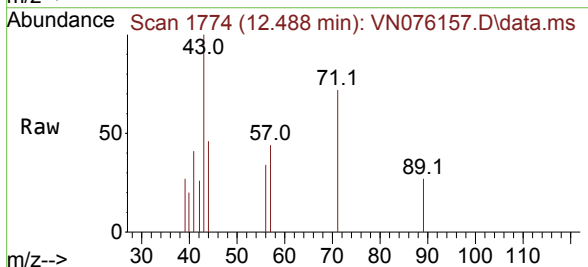
Ion Ratio Lower Upper

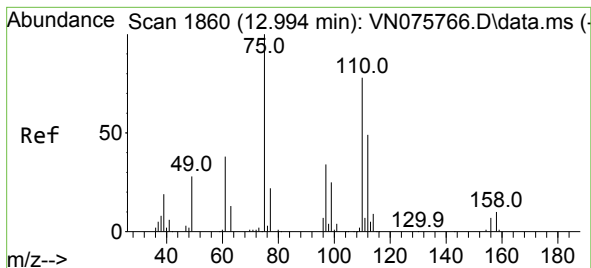
43 100

70 0.0 41.4 62.0#

55 3.5 21.3 31.9#

61 0.0 21.2 31.8#





#76

1,2,3-Trichloropropane

Concen: 26.241 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

Instrument :

MSVOA_N

ClientSampleId :

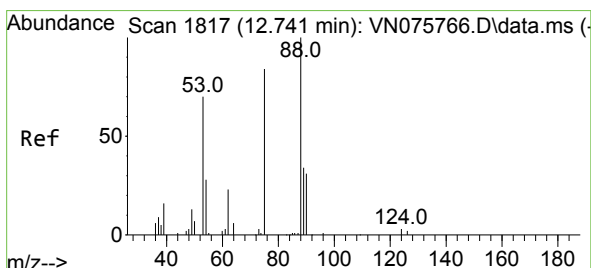
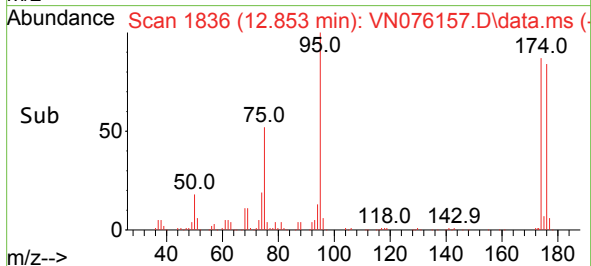
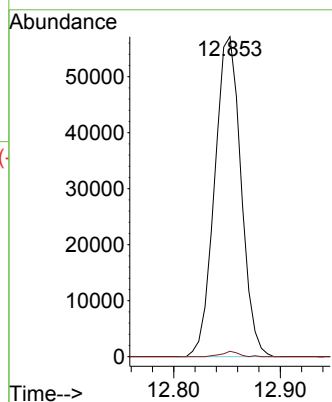
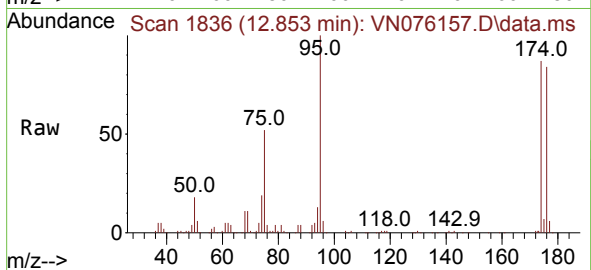
PB150106ZHE#02

Tgt Ion: 75 Resp: 98251

Ion Ratio Lower Upper

75 100

77 1.1 82.6 247.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.456 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN076157.D

Acq: 09 Jan 2023 15:40

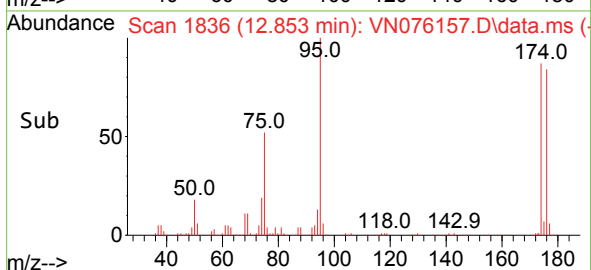
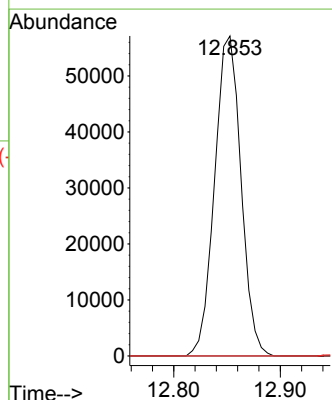
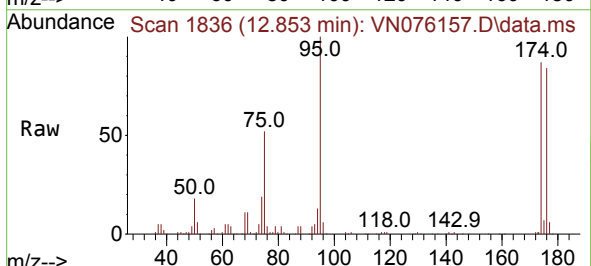
Tgt Ion: 75 Resp: 98251

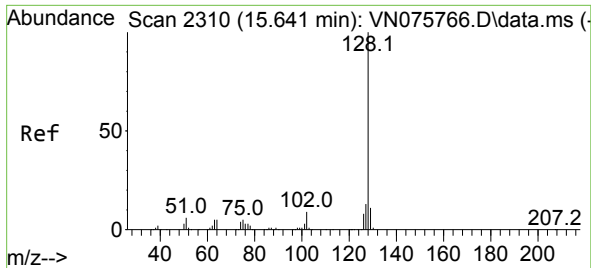
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

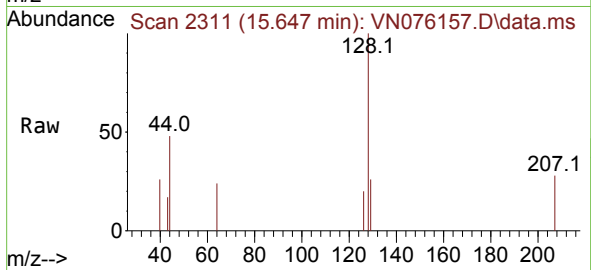
89 0.0 39.5 59.3#





#95
 Naphthalene
 Concen: 2.332 ug/l
 RT: 15.647 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN076157.D
 Acq: 09 Jan 2023 15:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB150106ZHE#02



Tgt Ion:128 Resp: 1633
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 8.4 8.7 13.1#

