

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
 Data File : VN077454.D
 Acq On : 25 Apr 2023 07:41
 Operator : JC\MD
 Sample : PB152304ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#05

Quant Time: Apr 25 08:43:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

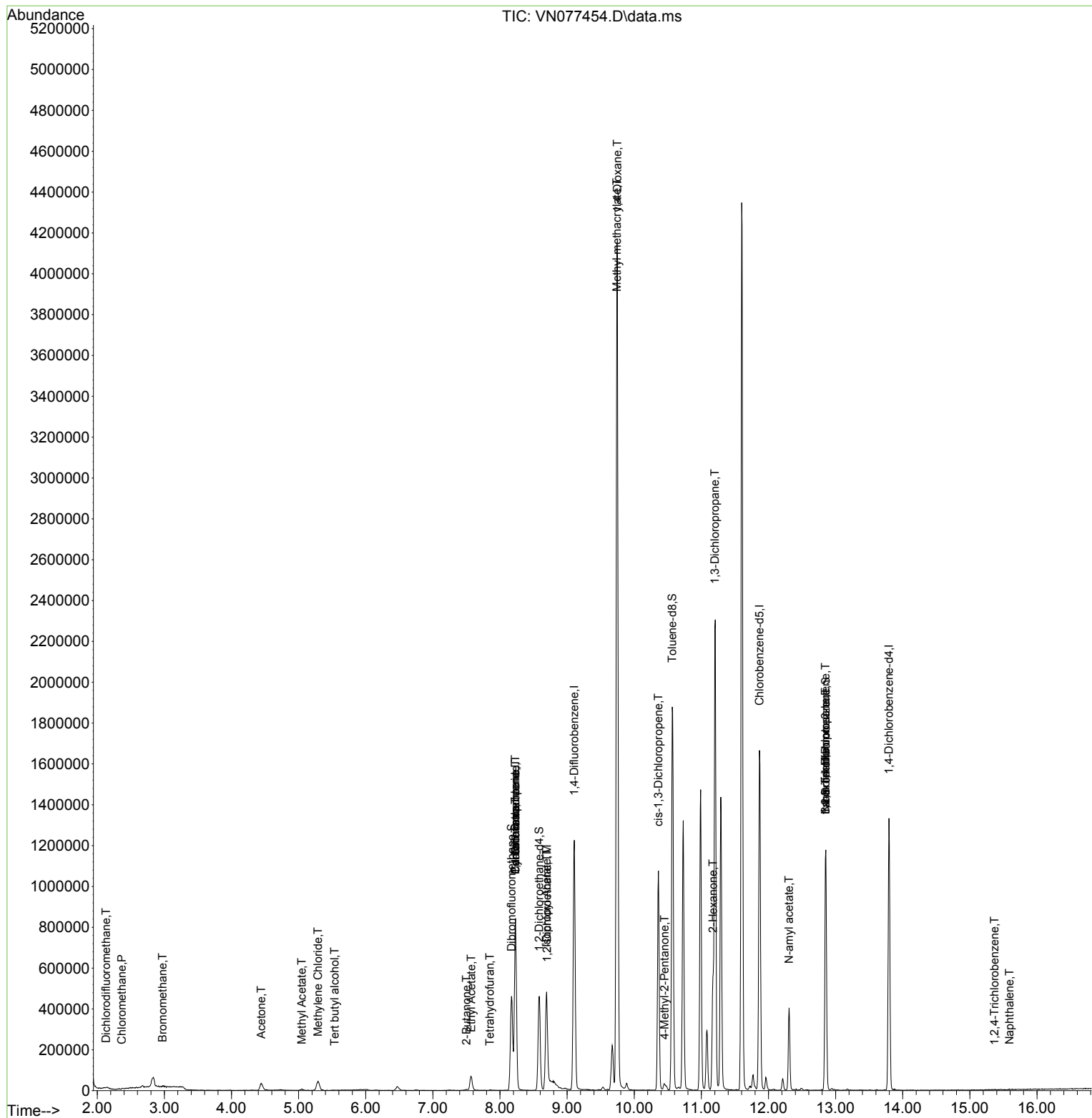
Internal Standards						
1) Pentafluorobenzene	8.230	168	582769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1098960	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1026465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	351908	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	383589	50.443	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.880%			
35) Dibromofluoromethane	8.172	113	333376	50.472	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.940%			
50) Toluene-d8	10.566	98	1367071	54.002	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.000%			
62) 4-Bromofluorobenzene	12.854	95	430126	51.932	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.860%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.131	85	124	0.326	ug/l #	43
3) Chloromethane	2.366	50	1470	0.252	ug/l	100
5) Bromomethane	2.972	94	1763	0.262	ug/l #	23
11) Tert butyl alcohol	5.537	59	683	0.559	ug/l #	72
16) Acetone	4.442	43	64494	26.658	ug/l #	87
18) Methyl Acetate	5.048	43	8884	0.951	ug/l	97
20) Methylene Chloride	5.289	84	38746	5.050	ug/l #	90
25) 2-Butanone	7.501	43	7783	2.268	ug/l #	85
29) Tetrahydrofuran	7.848	42	1232	0.573	ug/l	96
31) Cyclohexane	8.230	56	13691	1.271	ug/l #	46
36) 1,1-Dichloropropene	8.230	75	49973	5.237	ug/l #	49
37) Ethyl Acetate	7.572	43	100262	13.827	ug/l	98
38) Carbon Tetrachloride	8.230	117	67152	6.378	ug/l #	14
42) 1,2-Dichloroethane	8.701	62	3656	0.366	ug/l #	73
43) Isopropyl Acetate	8.695	43	530696	42.304	ug/l #	87
48) Methyl methacrylate	9.742	41	365653	64.034	ug/l #	30
49) 1,4-Dioxane	9.748	88	960	6.702	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	33828	4.597	ug/l #	68
54) cis-1,3-Dichloropropene	10.360	75	223540	18.976	ug/l #	63
57) 1,3-Dichloropropane	11.201	76	27028	2.216	ug/l #	43
59) 2-Hexanone	11.171	43	389875	72.894	ug/l #	19
71) Bromoform	12.848	173	1529	0.296	ug/l #	1
74) N-amyl acetate	12.307	43	110066	11.385	ug/l #	47
76) 1,2,3-Trichloropropane	12.848	75	234569	28.665	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	234569	80.982	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.365	180	234	0.889	ug/l #	52
95) Naphthalene	15.589	128	1237	1.272	ug/l #	70

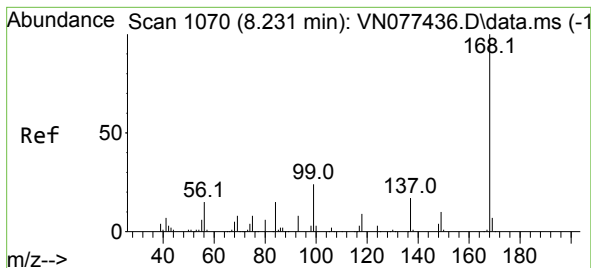
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN077454.D

Acq: 25 Apr 2023 07:41

Instrument :

MSVOA_N

ClientSampleId :

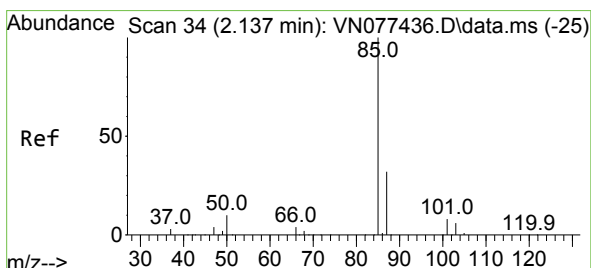
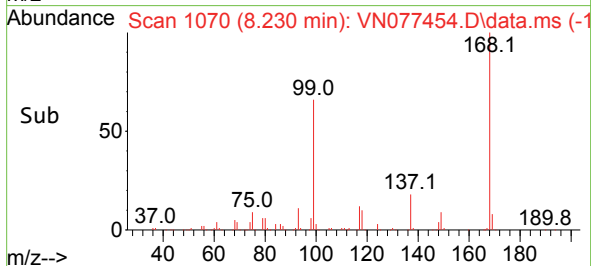
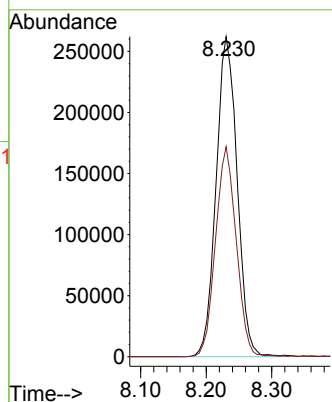
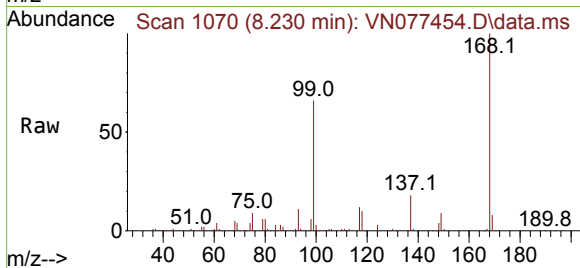
PB152304ZHE#05

Tgt Ion:168 Resp: 582769

Ion Ratio Lower Upper

168 100

99 65.6 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.326 ug/l

RT: 2.131 min Scan# 33

Delta R.T. -0.006 min

Lab File: VN077454.D

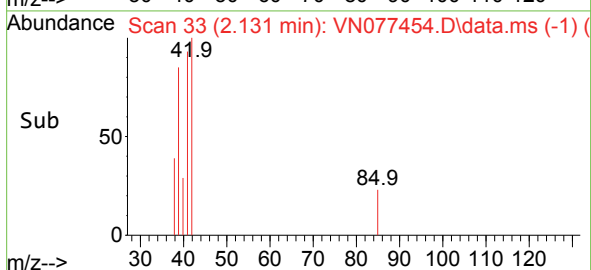
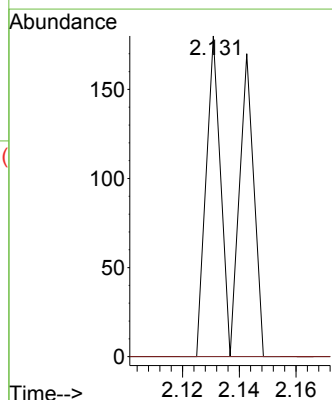
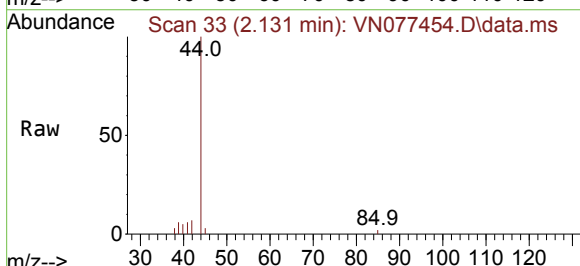
Acq: 25 Apr 2023 07:41

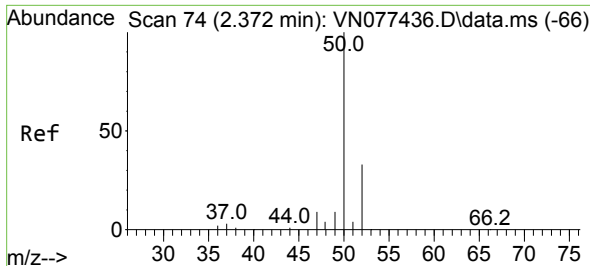
Tgt Ion: 85 Resp: 124

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#

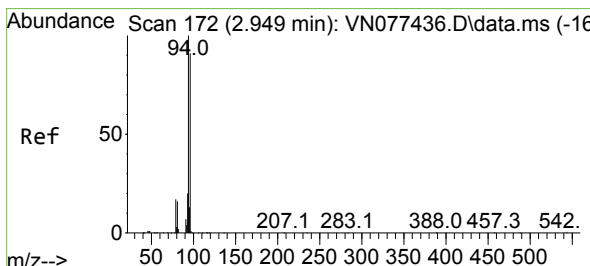
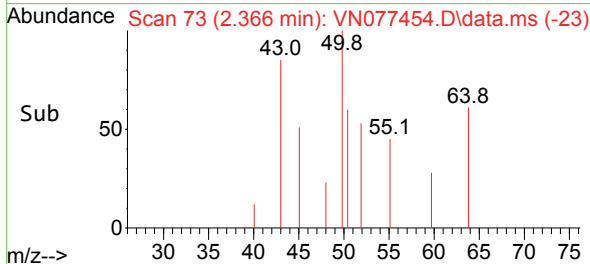
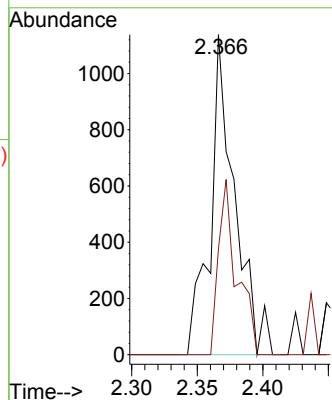
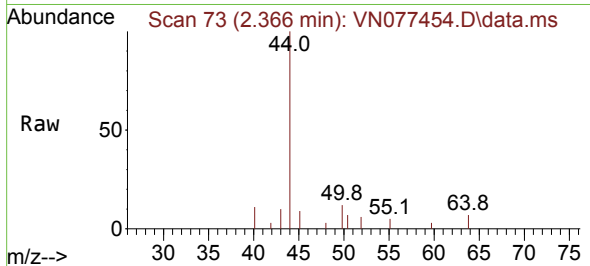




#3
Chloromethane
Concen: 0.252 ug/l
RT: 2.366 min Scan# 71
Delta R.T. -0.006 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

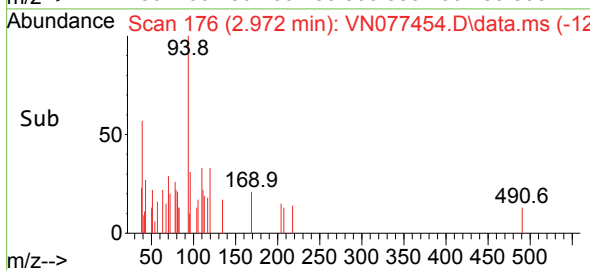
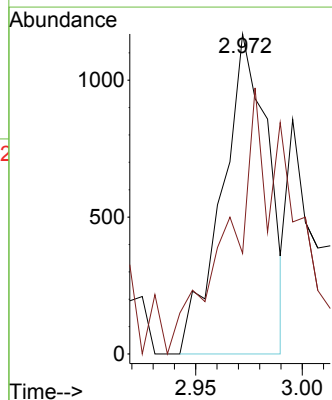
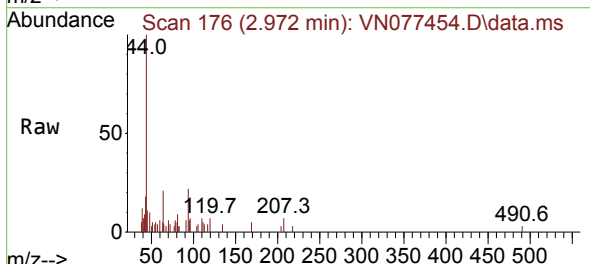
Instrument :
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PB152304ZHE#05

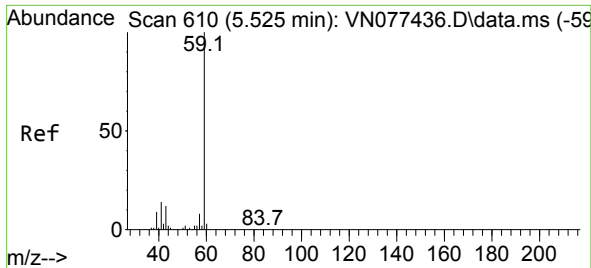
Tgt Ion: 50 Resp: 1470
Ion Ratio Lower Upper
50 100
52 33.0 26.5 39.7



#5
Bromomethane
Concen: 0.262 ug/l
RT: 2.972 min Scan# 176
Delta R.T. 0.023 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 94 Resp: 1763
Ion Ratio Lower Upper
94 100
96 18.6 73.1 109.7#





#11

Tert butyl alcohol

Concen: 0.559 ug/l

RT: 5.537 min Scan# 610

Delta R.T. 0.012 min

Lab File: VN077454.D

Acq: 25 Apr 2023 07:41

Instrument :

MSVOA_N

ClientSampleId :

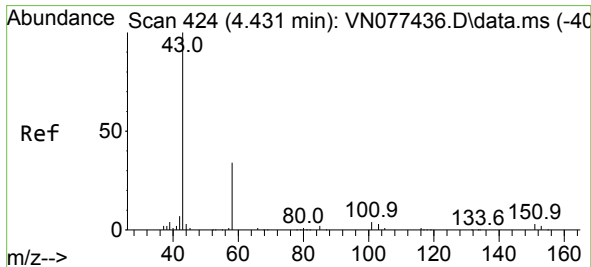
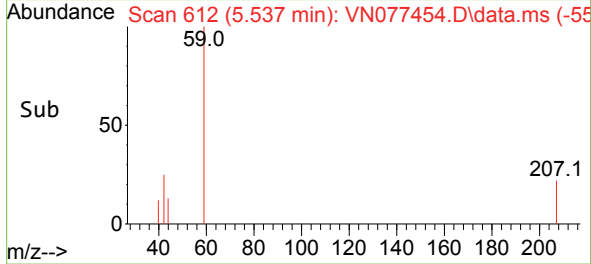
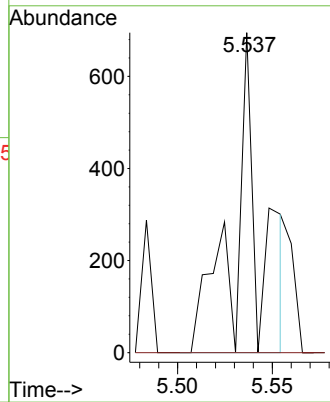
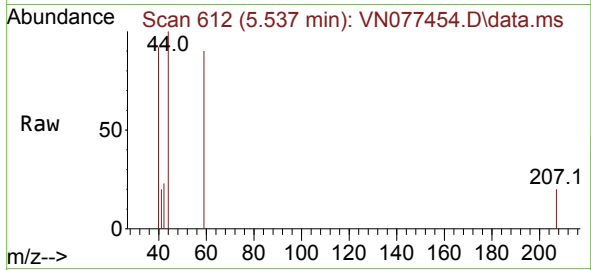
PB152304ZHE#05

Tgt Ion: 59 Resp: 683

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 26.658 ug/l

RT: 4.442 min Scan# 426

Delta R.T. 0.012 min

Lab File: VN077454.D

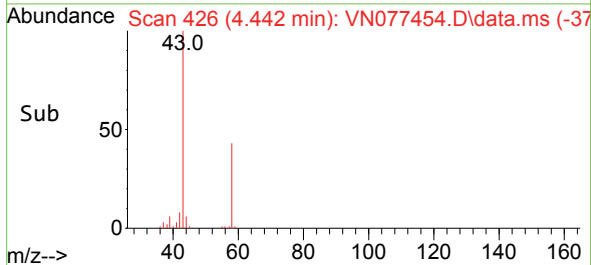
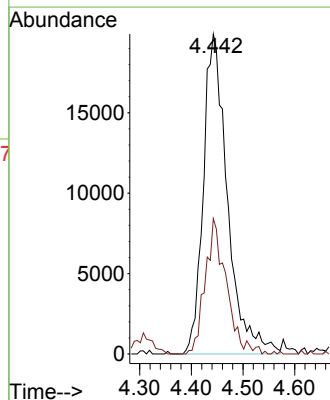
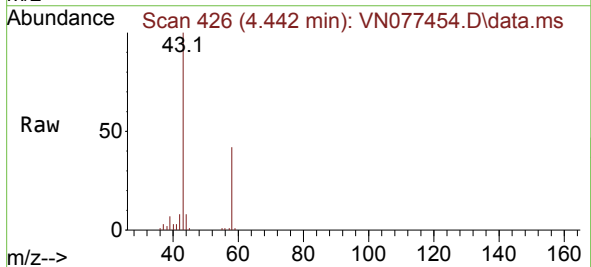
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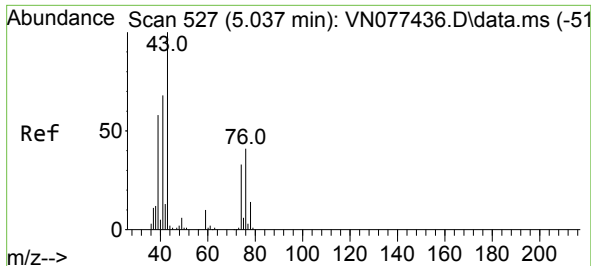
Tgt Ion: 43 Resp: 64494

Ion Ratio Lower Upper

43 100

58 42.3 28.0 42.0#

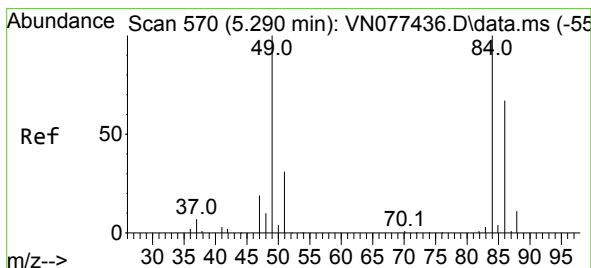
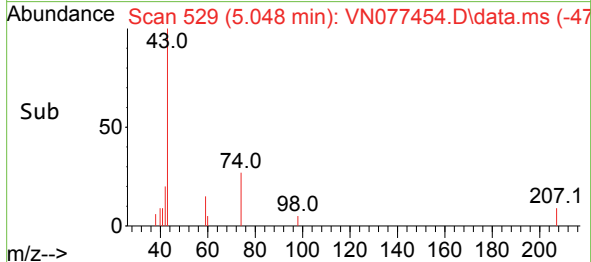
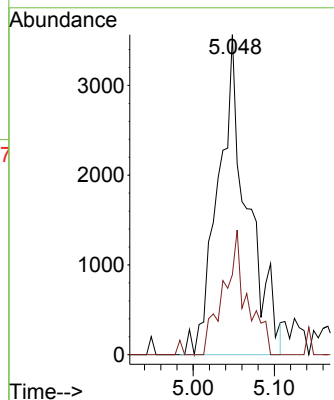
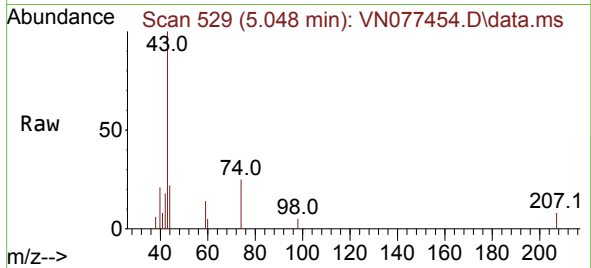




#18
Methyl Acetate
Concen: 0.951 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

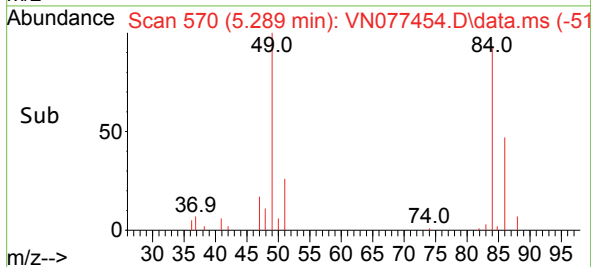
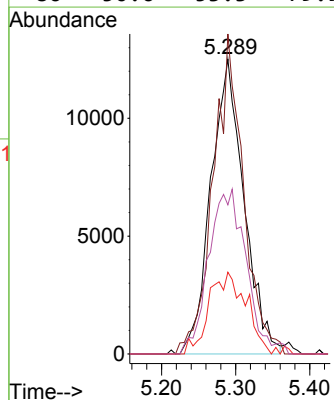
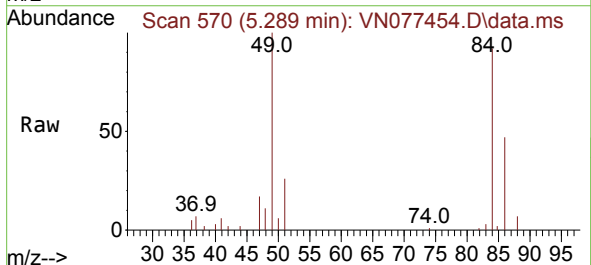
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

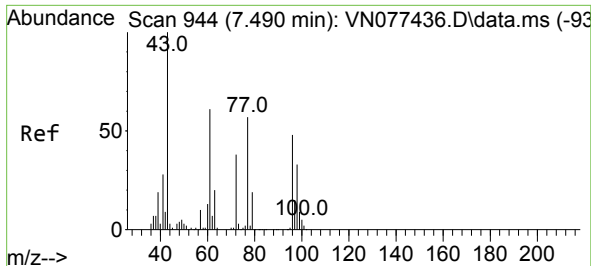
Tgt Ion: 43 Resp: 8884
Ion Ratio Lower Upper
43 100
74 31.2 26.2 39.4



#20
Methylene Chloride
Concen: 5.050 ug/l
RT: 5.289 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 84 Resp: 38746
Ion Ratio Lower Upper
84 100
49 104.8 79.7 119.5
51 27.8 25.2 37.8
86 50.6 53.3 79.9#

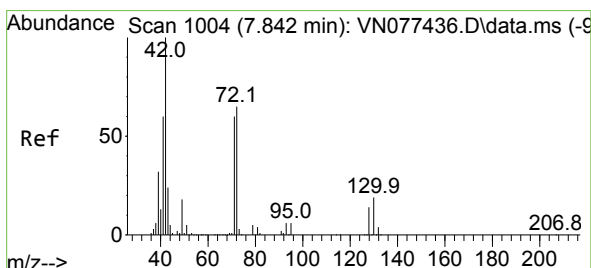
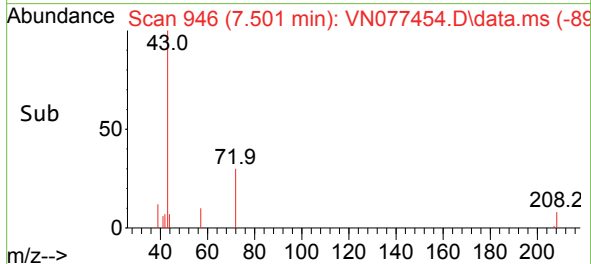
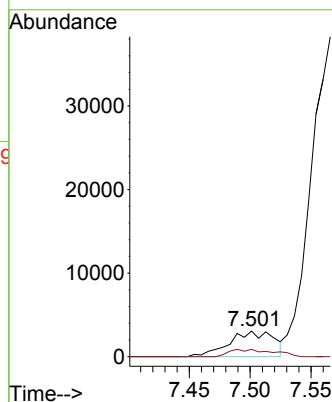
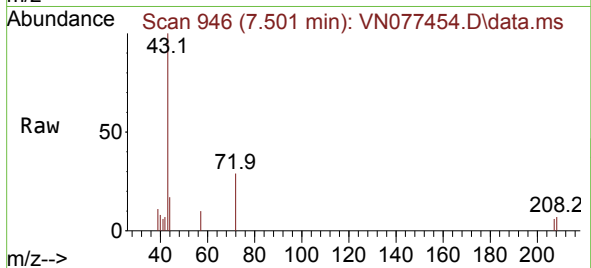




#25
2-Butanone
Concen: 2.268 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

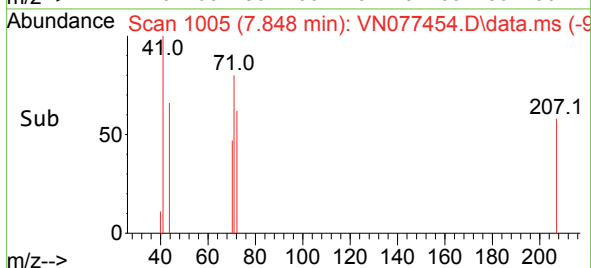
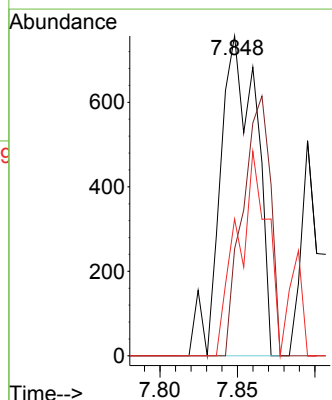
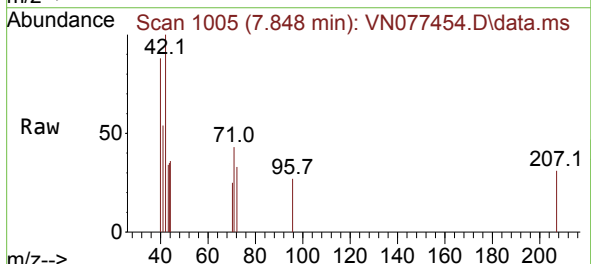
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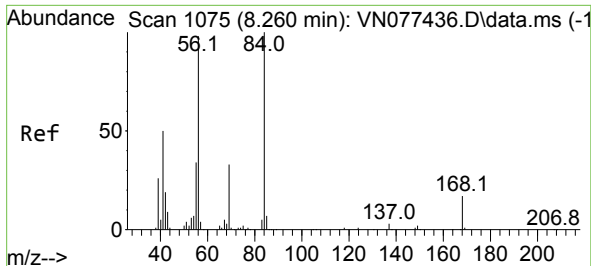
Tgt Ion: 43 Resp: 7783
Ion Ratio Lower Upper
43 100
72 28.7 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.573 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 42 Resp: 1232
Ion Ratio Lower Upper
42 100
72 62.1 49.8 74.6
71 52.5 47.4 71.2

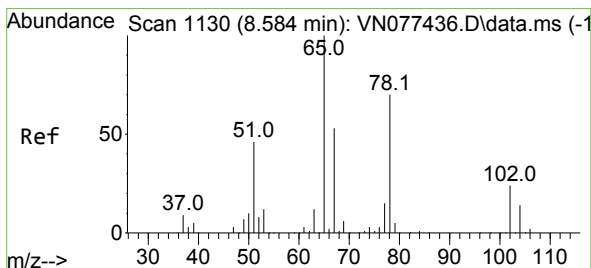
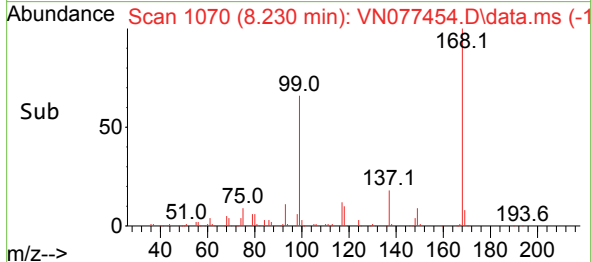
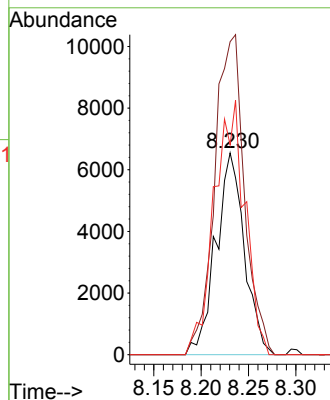
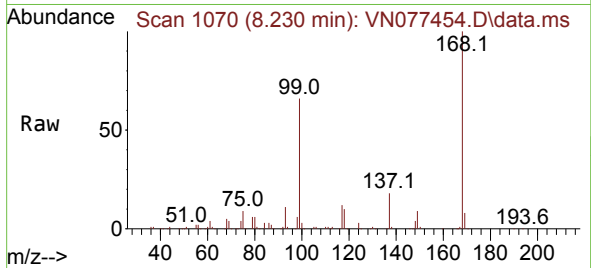




#31
Cyclohexane
Concen: 1.271 ug/l
RT: 8.230 min Scan# 1075
Delta R.T. -0.030 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

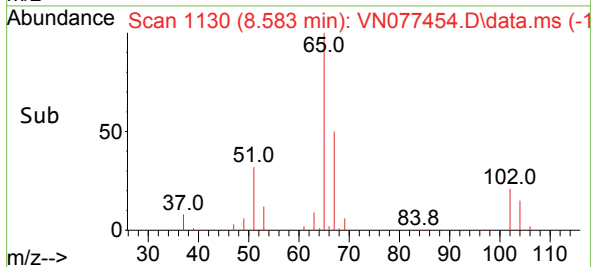
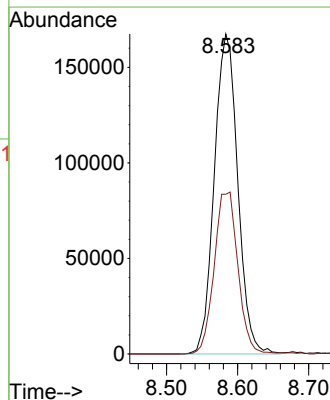
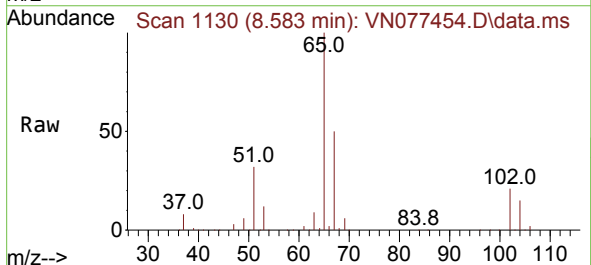
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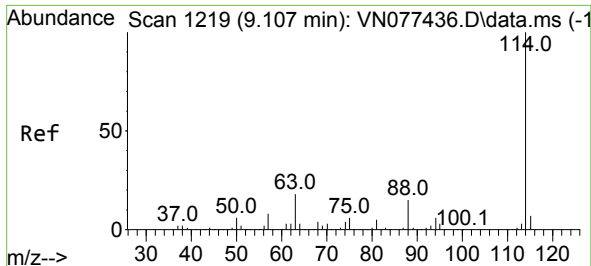
Tgt Ion: 56 Resp: 13691
Ion Ratio Lower Upper
56 100
69 155.2 26.8 40.2#
84 104.0 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 50.443 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 65 Resp: 383589
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.6

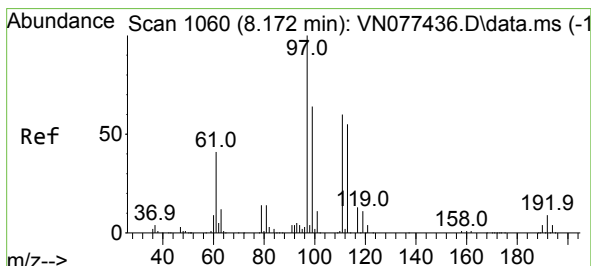
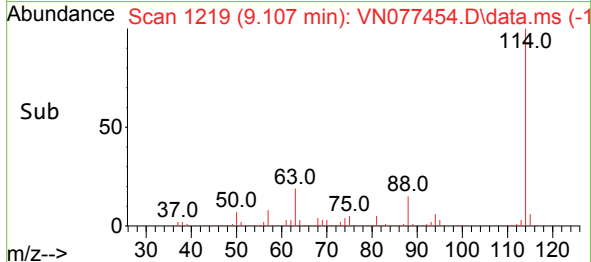
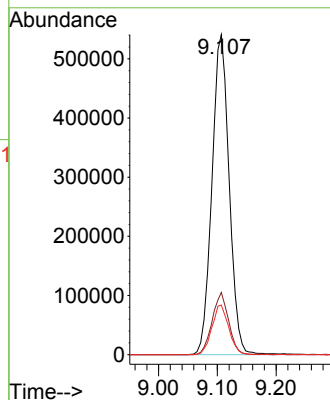
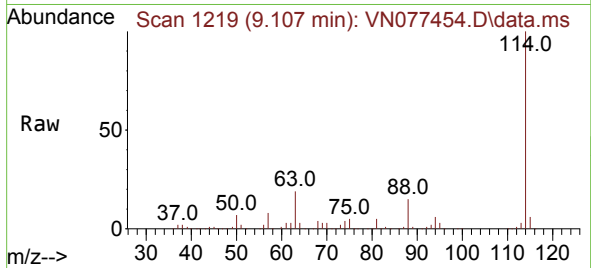




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

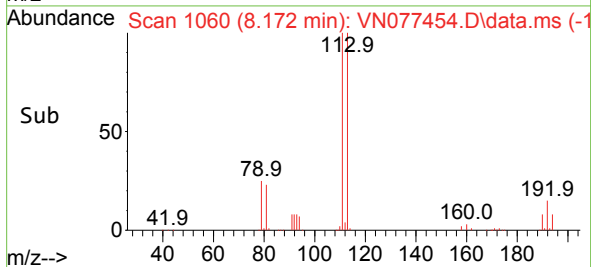
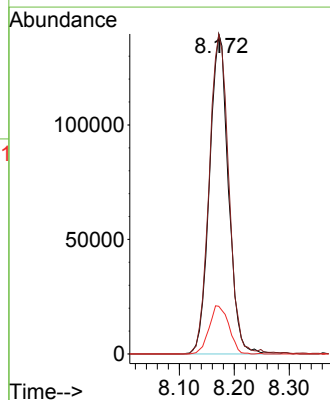
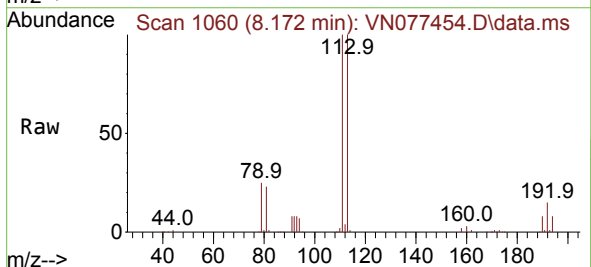
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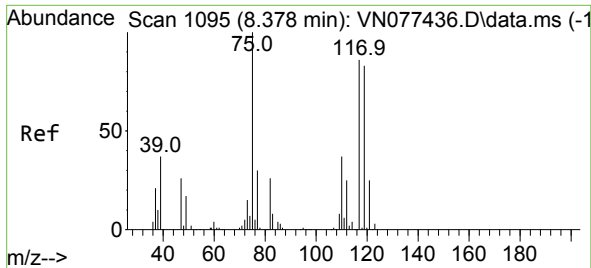
Tgt Ion:114 Resp: 1098960
Ion Ratio Lower Upper
114 100
63 19.5 0.0 36.4
88 15.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.472 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion:113 Resp: 333376
Ion Ratio Lower Upper
113 100
111 103.9 82.6 123.8
192 15.7 12.7 19.1

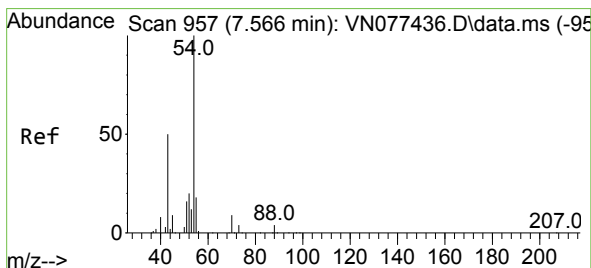
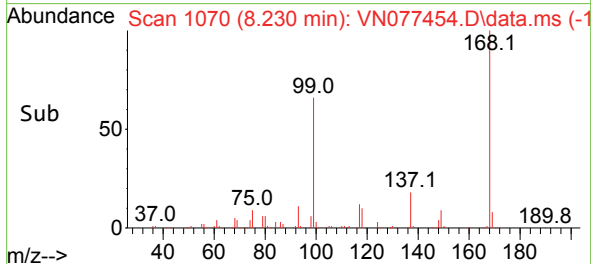
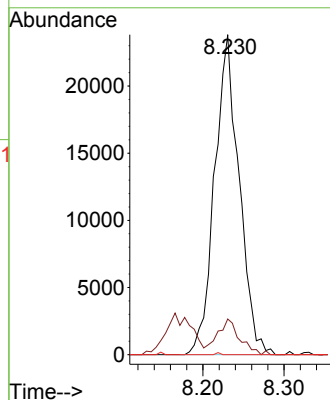
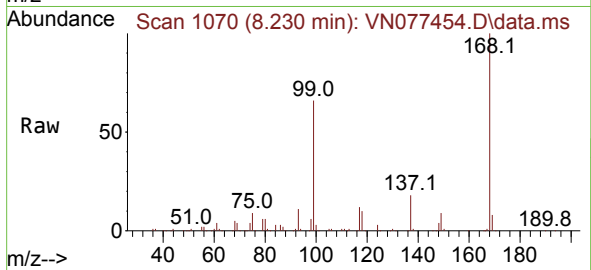




#36
1,1-Dichloropropene
Concen: 5.237 ug/l
RT: 8.230 min Scan# 1095
Delta R.T. -0.147 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

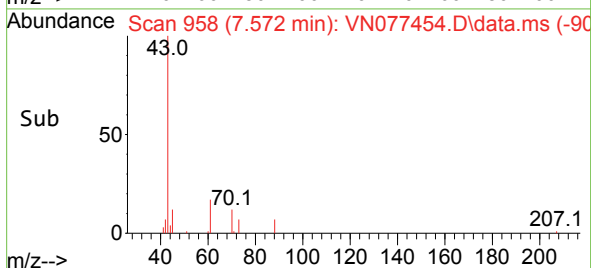
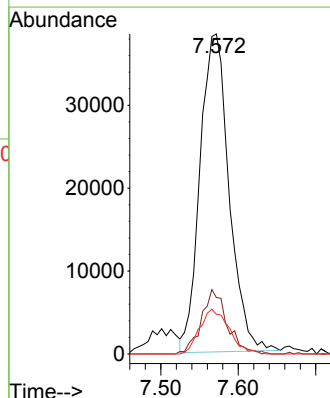
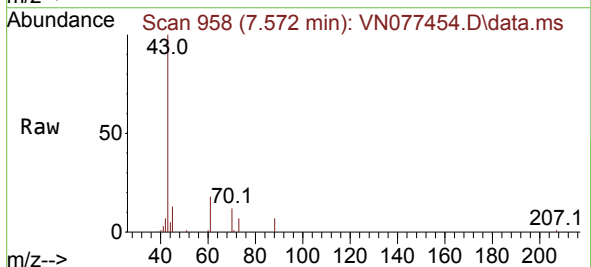
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

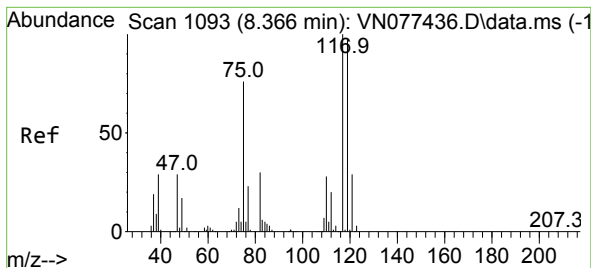
Tgt Ion: 75 Resp: 49973
Ion Ratio Lower Upper
75 100
110 10.3 19.1 57.3#
77 0.1 25.0 37.4#



#37
Ethyl Acetate
Concen: 13.827 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 43 Resp: 100262
Ion Ratio Lower Upper
43 100
61 17.8 13.2 19.8
70 14.3 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.378 ug/l

RT: 8.230 min Scan# 110

Delta R.T. -0.136 min

Lab File: VN077454.D

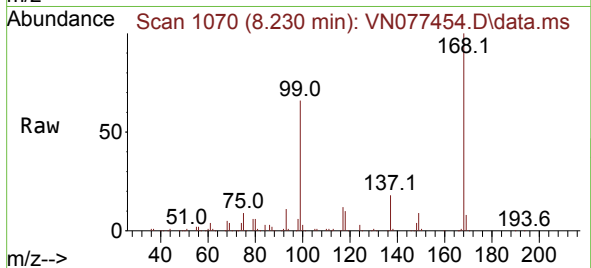
Acq: 25 Apr 2023 07:41

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#05



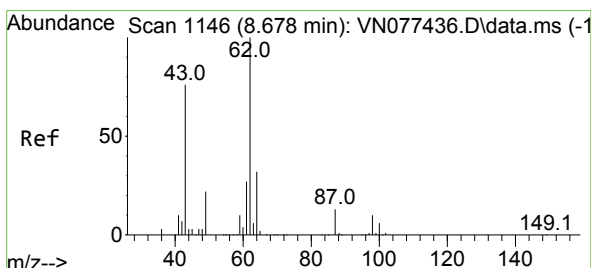
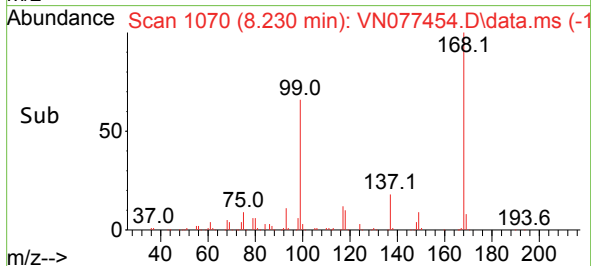
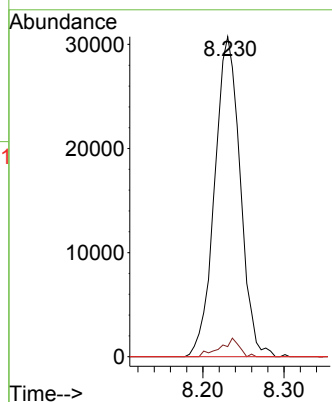
Tgt Ion:117 Resp: 67152

Ion Ratio Lower Upper

117 100

119 3.2 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.366 ug/l

RT: 8.701 min Scan# 1150

Delta R.T. 0.023 min

Lab File: VN077454.D

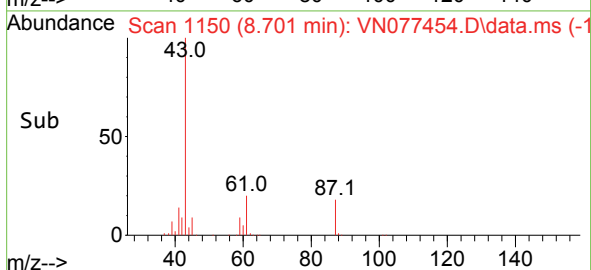
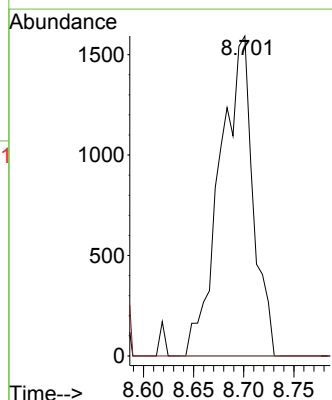
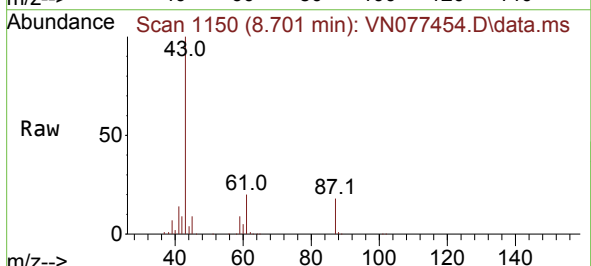
Acq: 25 Apr 2023 07:41

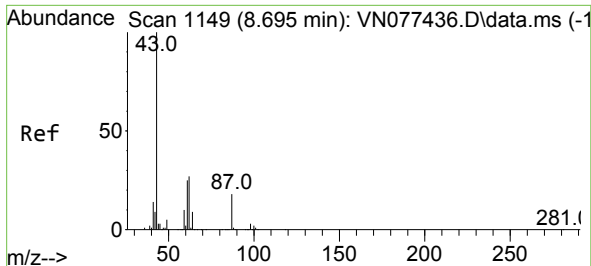
Tgt Ion: 62 Resp: 3656

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

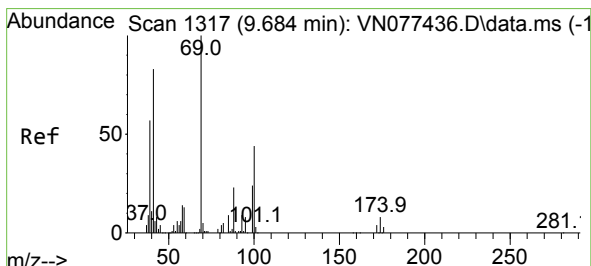
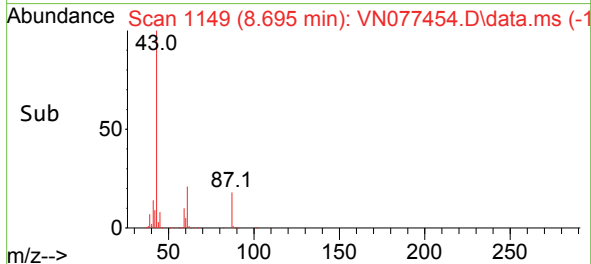
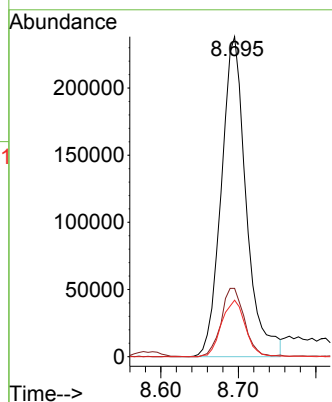
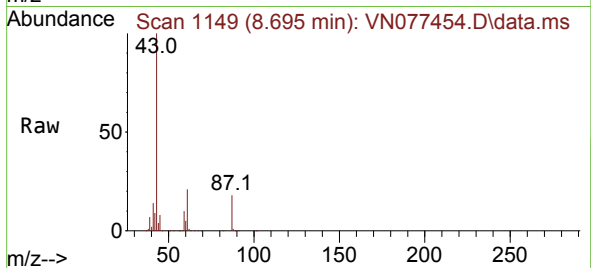




#43
Isopropyl Acetate
Concen: 42.304 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

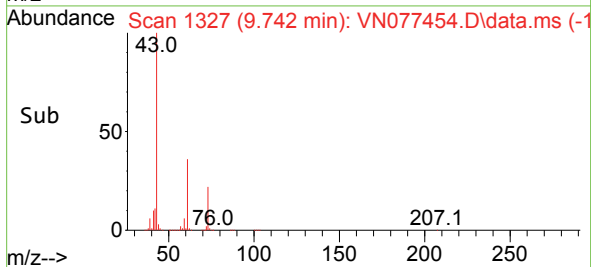
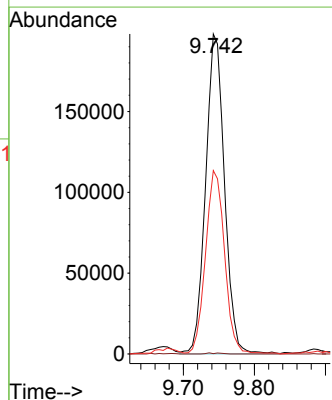
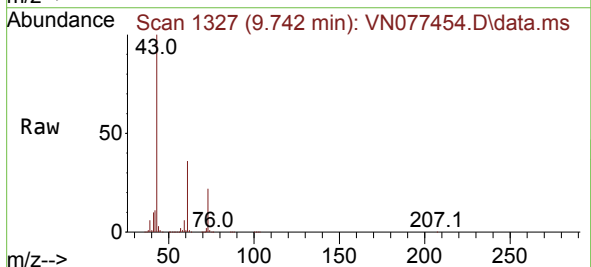
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

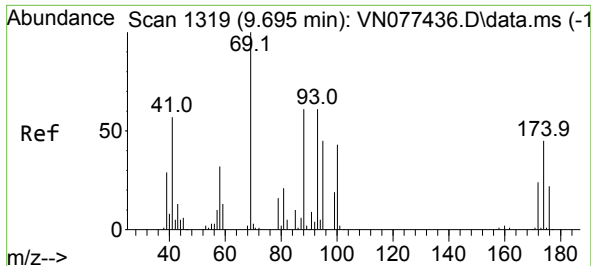
Tgt Ion: 43 Resp: 530696
Ion Ratio Lower Upper
43 100
61 20.2 24.7 37.1#
87 17.0 14.6 21.8



#48
Methyl methacrylate
Concen: 64.034 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.059 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 41 Resp: 365653
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 58.2 54.6 81.8





#49

1,4-Dioxane

Concen: 6.702 ug/l

RT: 9.748 min Scan# 1328

Delta R.T. 0.053 min

Lab File: VN077454.D

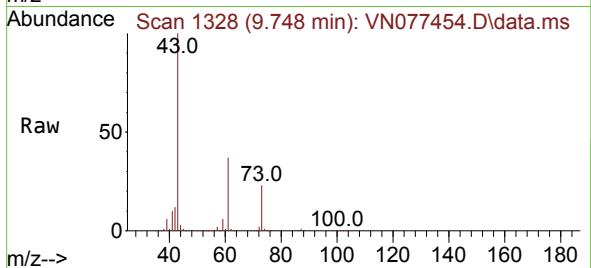
Acq: 25 Apr 2023 07:41

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#05



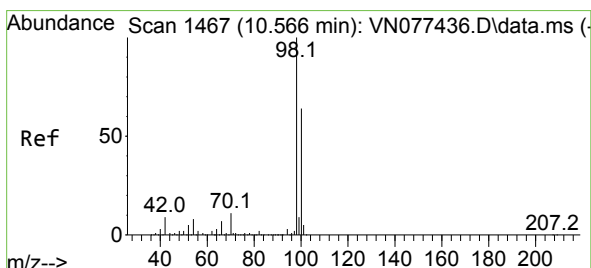
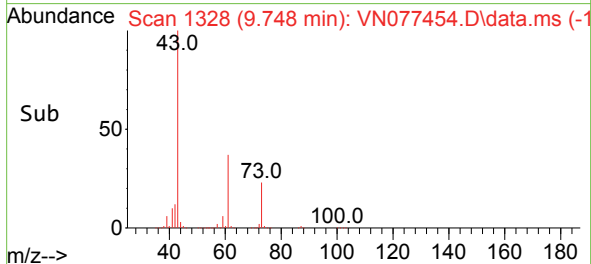
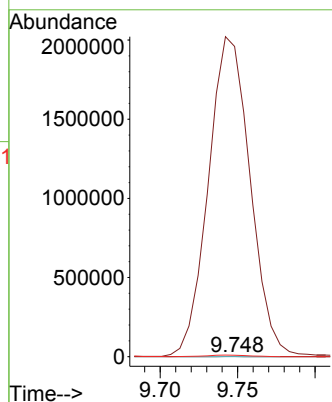
Tgt Ion: 88 Resp: 960

Ion Ratio Lower Upper

88 100

43 396231.3 17.0 25.6#

58 1973.8 47.0 70.4#



#50

Toluene-d8

Concen: 54.002 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. -0.000 min

Lab File: VN077454.D

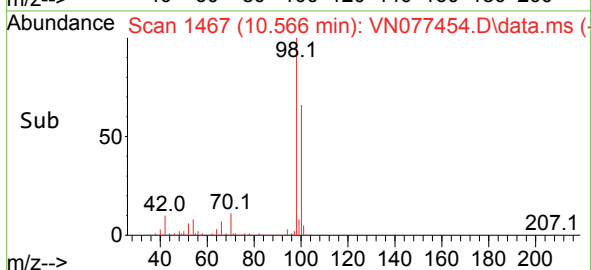
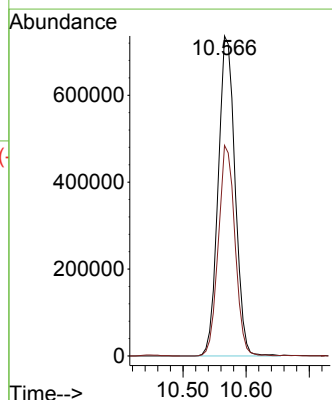
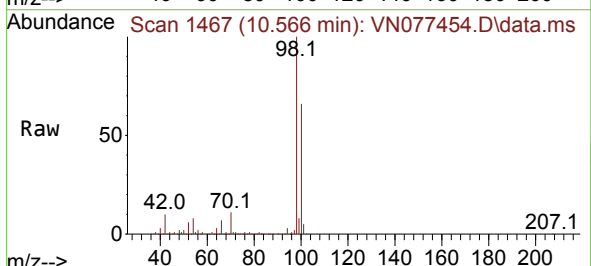
Acq: 25 Apr 2023 07:41

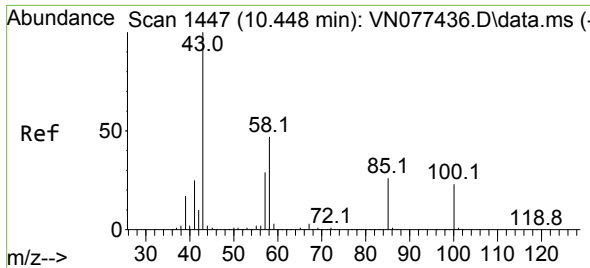
Tgt Ion: 98 Resp: 1367071

Ion Ratio Lower Upper

98 100

100 65.0 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 4.597 ug/l

RT: 10.454 min Scan# 1448

Delta R.T. 0.006 min

Lab File: VN077454.D

Acq: 25 Apr 2023 07:41

Instrument :

MSVOA_N

ClientSampleId :

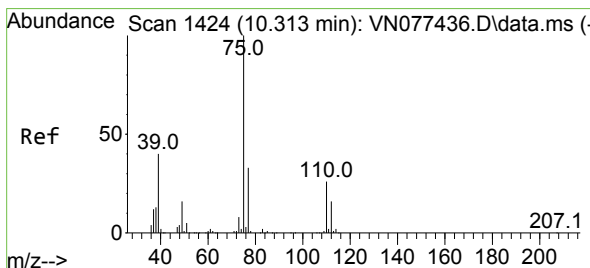
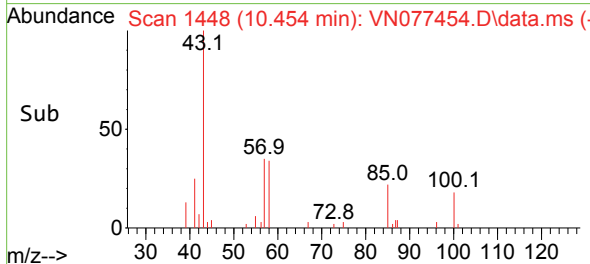
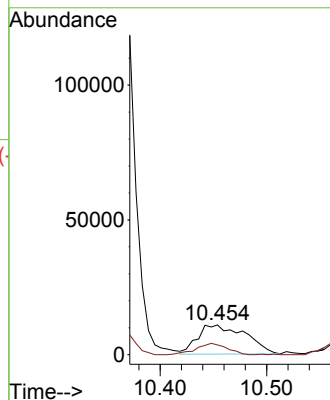
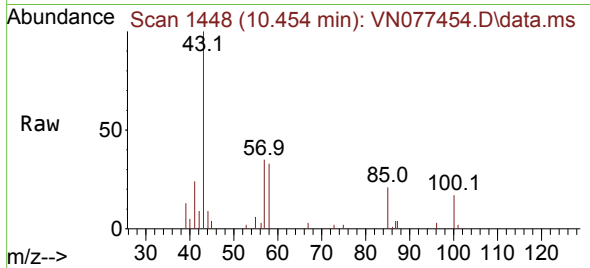
PB152304ZHE#05

Tgt Ion: 43 Resp: 33828

Ion Ratio Lower Upper

43 100

58 24.8 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 18.976 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077454.D

Acq: 25 Apr 2023 07:41

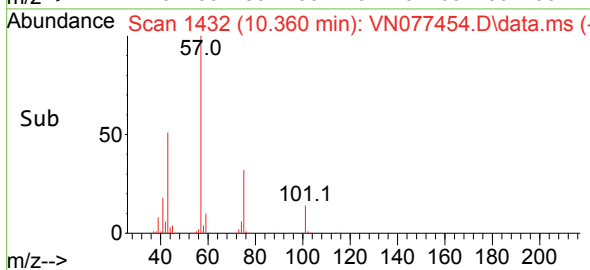
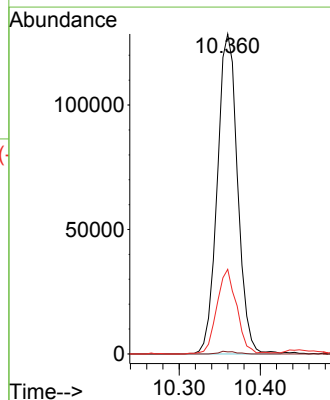
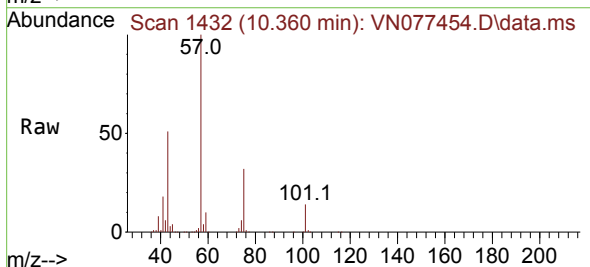
Tgt Ion: 75 Resp: 223540

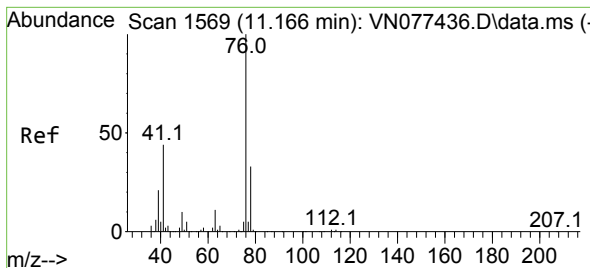
Ion Ratio Lower Upper

75 100

77 0.7 26.1 39.1#

39 26.4 31.6 47.4#

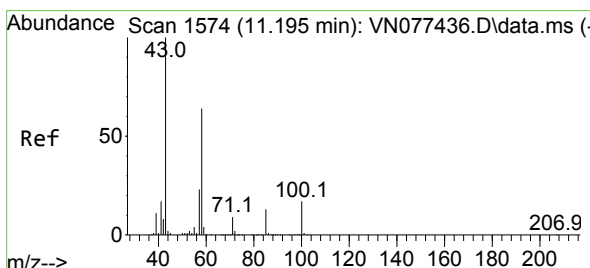
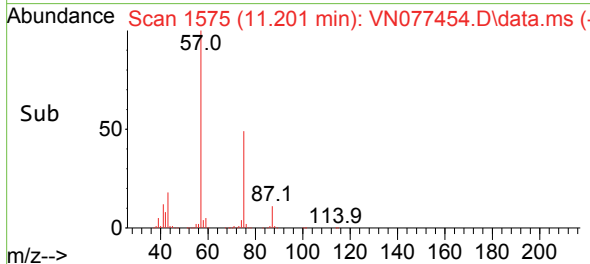
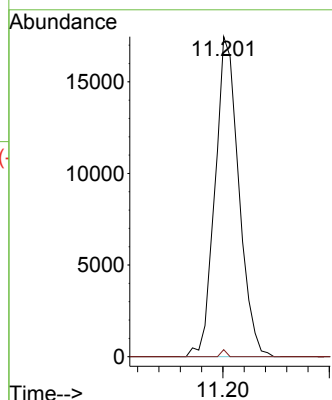
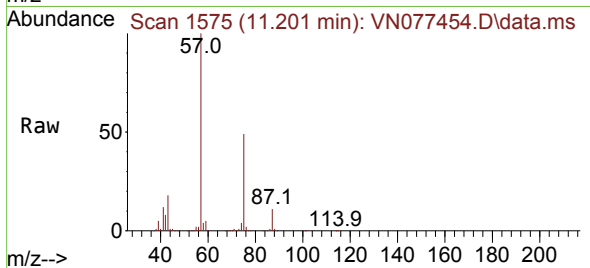




#57
1,3-Dichloropropane
Concen: 2.216 ug/l
RT: 11.201 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

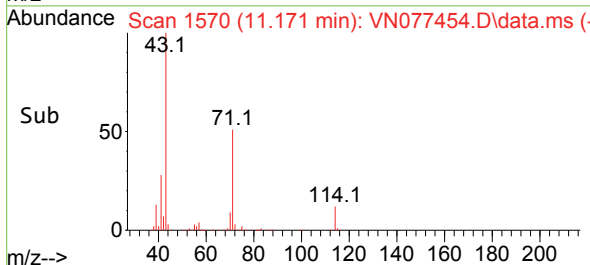
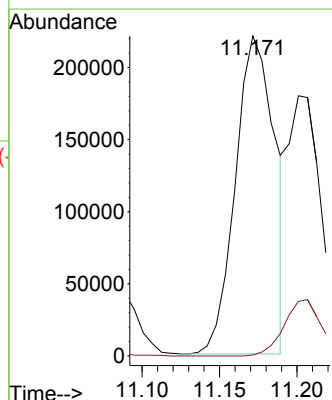
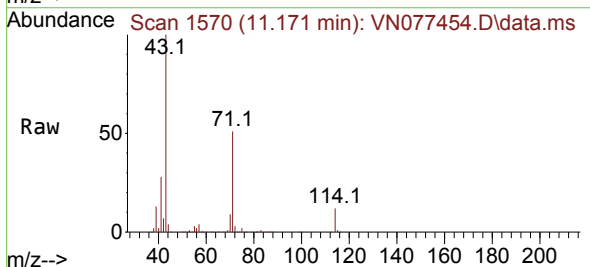
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

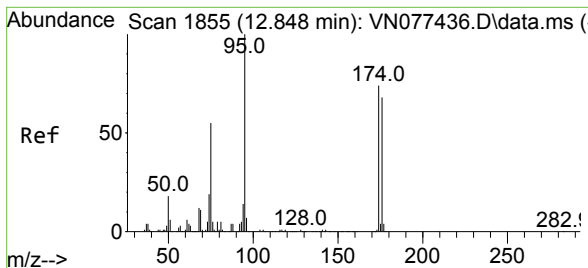
Tgt Ion: 76 Resp: 27028
Ion Ratio Lower Upper
76 100
78 0.5 26.1 39.1#



#59
2-Hexanone
Concen: 72.894 ug/l
RT: 11.171 min Scan# 1570
Delta R.T. -0.024 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 43 Resp: 389875
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

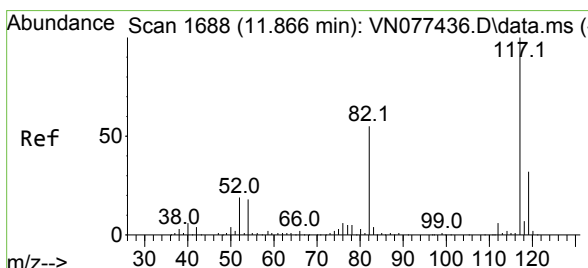
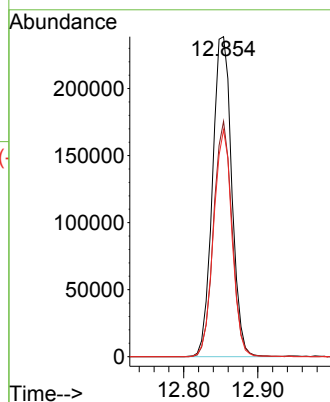
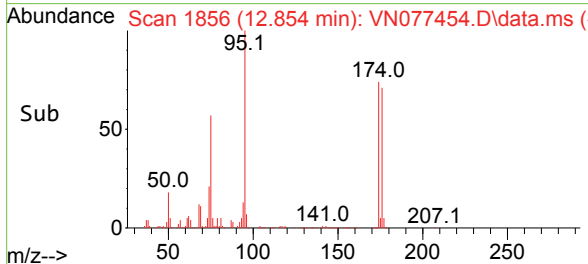
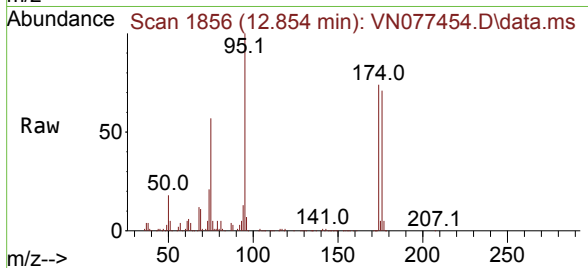




#62
4-Bromofluorobenzene
Concen: 51.932 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

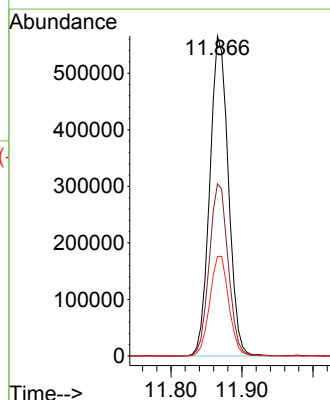
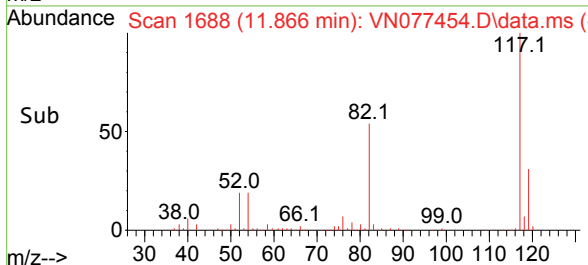
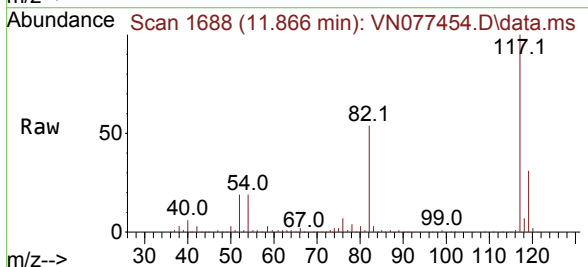
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

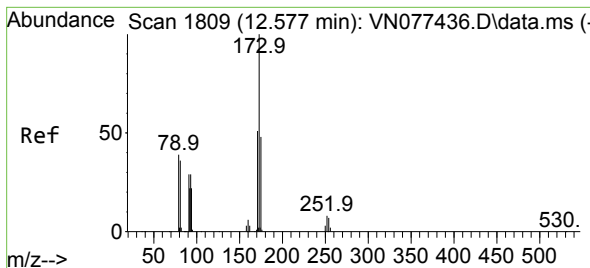
Tgt Ion: 95 Resp: 430126
Ion Ratio Lower Upper
95 100
174 70.5 0.0 143.8
176 68.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 117 Resp: 1026465
Ion Ratio Lower Upper
117 100
82 53.8 44.0 66.0
119 31.1 25.6 38.4





#71

Bromoform

Concen: 0.296 ug/l

RT: 12.848 min Scan# 1809

Delta R.T. 0.270 min

Lab File: VN077454.D

Acq: 25 Apr 2023 07:41

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#05

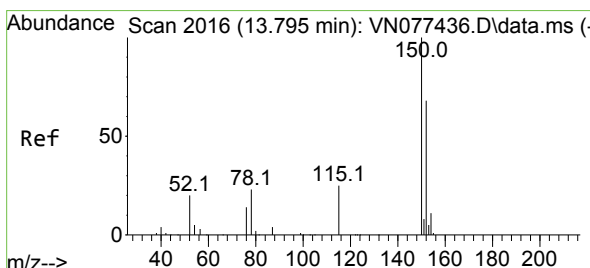
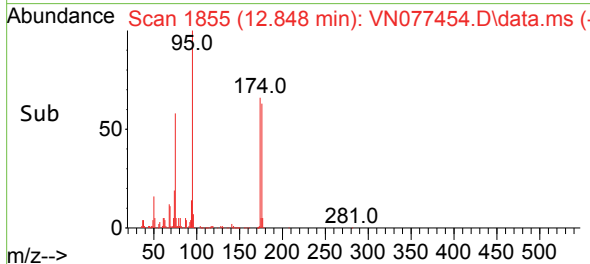
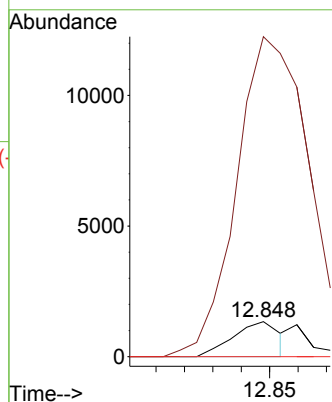
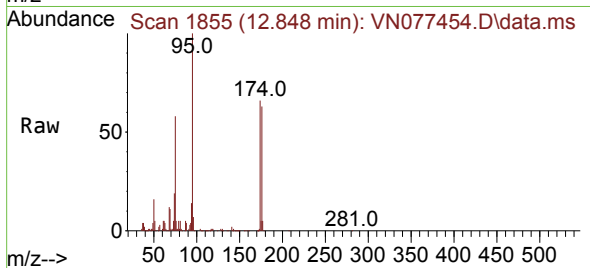
Tgt Ion:173 Resp: 1529

Ion Ratio Lower Upper

173 100

175 949.1 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077454.D

Acq: 25 Apr 2023 07:41

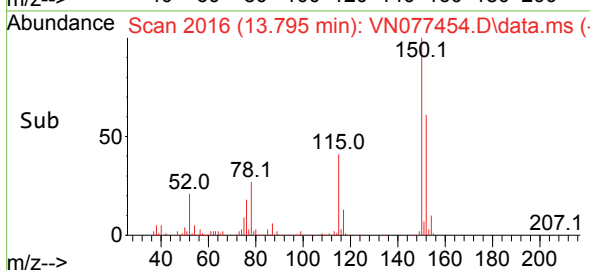
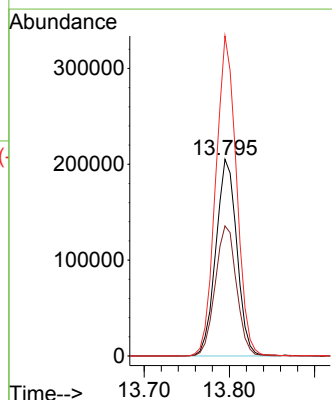
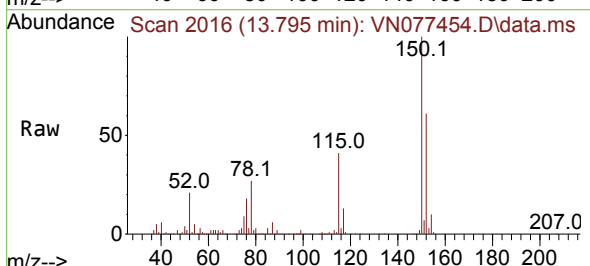
Tgt Ion:152 Resp: 351908

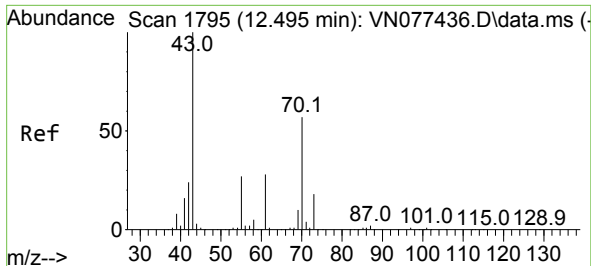
Ion Ratio Lower Upper

152 100

115 67.1 32.3 96.8

150 160.8 0.0 355.8

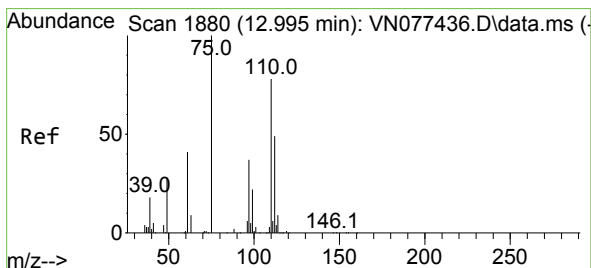
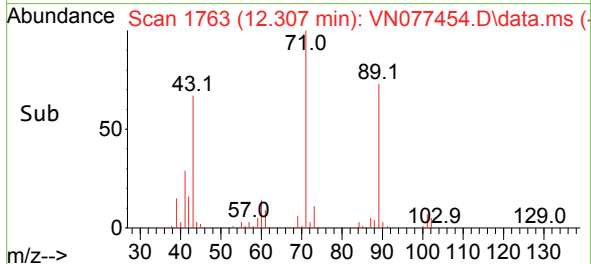
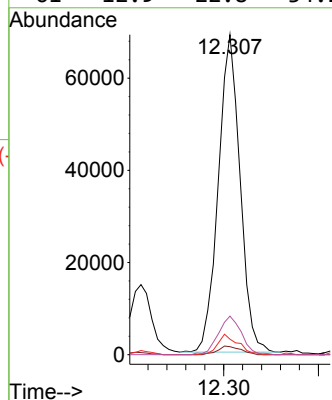
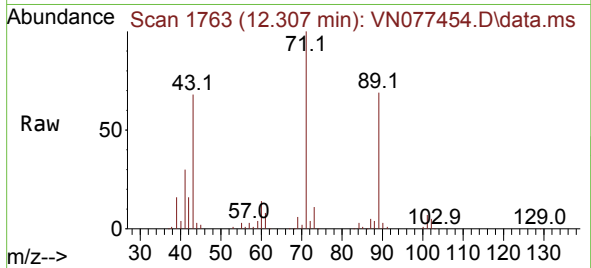




#74
N-amy1 acetate
Concen: 11.385 ug/l
RT: 12.307 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

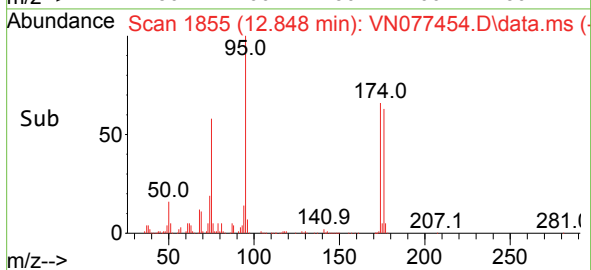
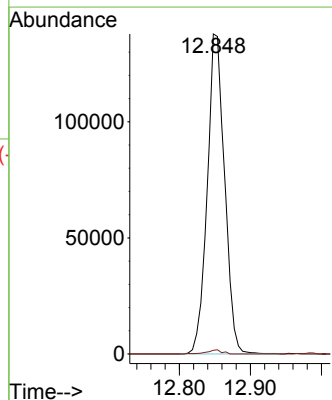
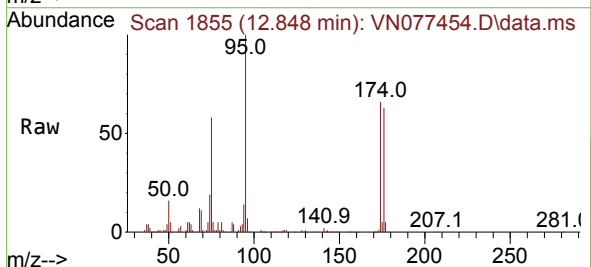
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

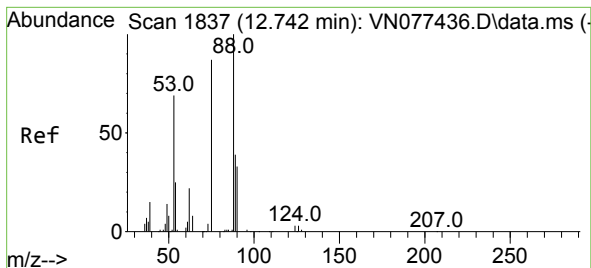
Tgt Ion: 43 Resp: 110066
Ion Ratio Lower Upper
43 100
70 2.8 43.4 65.2#
55 6.0 21.4 32.0#
61 12.9 22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 28.665 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Tgt Ion: 75 Resp: 234569
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#

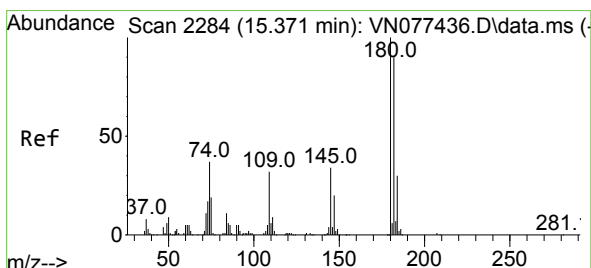
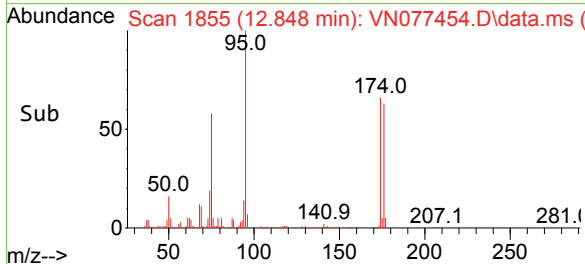
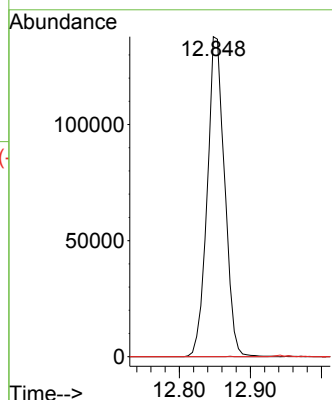
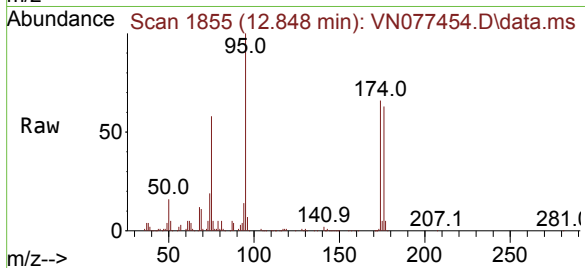




#81
trans-1,4-Dichloro-2-butene
Concen: 80.982 ug/l
RT: 12.848 min Scan# 1837
Delta R.T. 0.106 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

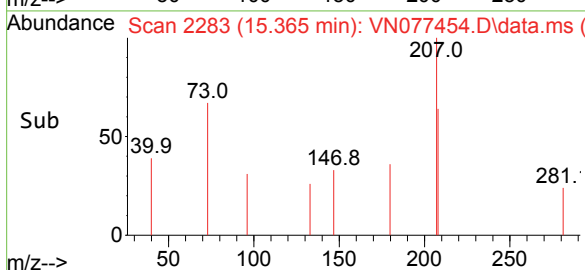
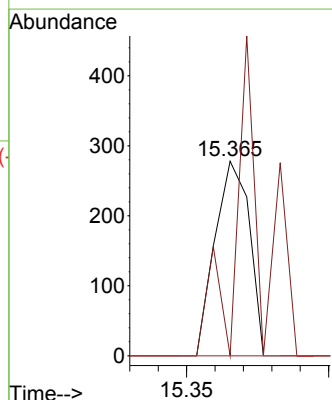
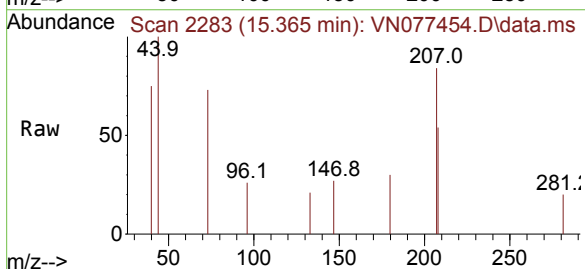
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05

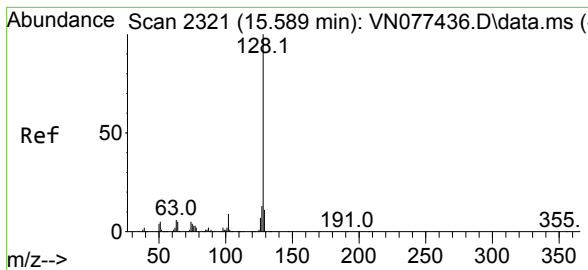
Tgt Ion: 75 Resp: 234569
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.889 ug/l
RT: 15.365 min Scan# 2283
Delta R.T. -0.006 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

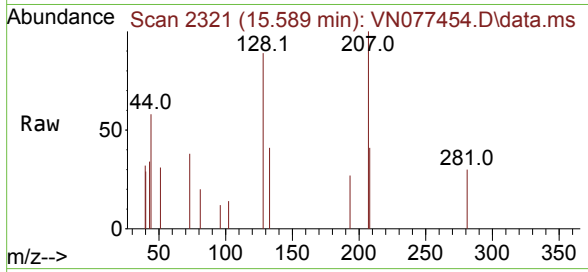
Tgt Ion:180 Resp: 234
Ion Ratio Lower Upper
180 100
182 134.2 46.1 138.2
145 0.0 16.6 49.8#





#95
Naphthalene
Concen: 1.272 ug/l
RT: 15.589 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077454.D
Acq: 25 Apr 2023 07:41

Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#05



Tgt Ion:	128	Resp:	1237
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#

