

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077205.D
 Acq On : 27 Mar 2023 16:43
 Operator : JC\MD
 Sample : VN0327WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0327WBL01

Quant Time: Mar 28 07:27:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

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

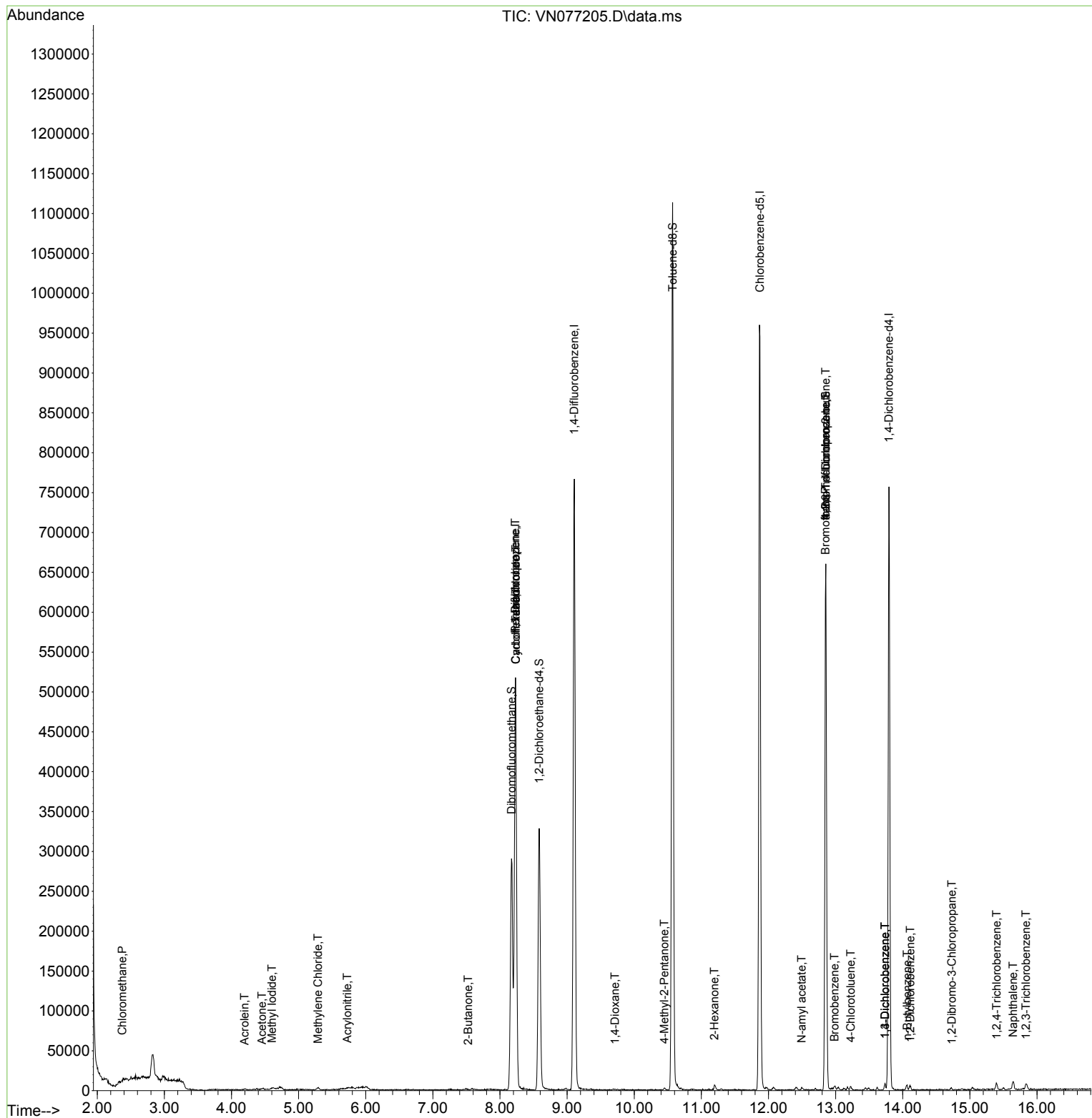
Internal Standards						
1) Pentafluorobenzene	8.231	168	359341	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	632952	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	537062	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	185899	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	265337	47.226	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.460%		
35) Dibromofluoromethane	8.172	113	206701	48.127	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.260%		
50) Toluene-d8	10.572	98	755331	46.935	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.880%		
62) 4-Bromofluorobenzene	12.854	95	212179	40.173	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	80.340%#		
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1768	0.336	ug/l #	70
10) Methyl Iodide	4.601	142	1324	0.301	ug/l #	91
13) Acrolein	4.196	56	1149	1.070	ug/l #	82
15) Acrylonitrile	5.725	53	882	0.369	ug/l #	18
16) Acetone	4.454	43	1813	0.868	ug/l #	77
20) Methylene Chloride	5.290	84	1602	0.344	ug/l #	70
25) 2-Butanone	7.525	43	1499	0.459	ug/l #	39
31) Cyclohexane	8.236	56	10497	1.345	ug/l #	42
36) 1,1-Dichloropropene	8.231	75	32790	5.486	ug/l #	48
38) Carbon Tetrachloride	8.236	117	38553	6.361	ug/l #	14
49) 1,4-Dioxane	9.713	88	136	1.541	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	2154	0.318	ug/l #	46
59) 2-Hexanone	11.195	43	4589	0.944	ug/l	74
71) Bromoform	12.848	173	1530	0.523	ug/l #	1
74) N-amyl acetate	12.495	43	1655	0.260	ug/l #	78
76) 1,2,3-Trichloropropane	12.854	75	122436	32.467	ug/l #	1
77) Bromobenzene	12.983	156	1127	0.335	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.854	75	122436	93.574	ug/l #	15
82) 4-Chlorotoluene	13.224	91	3082	0.313	ug/l	99
87) 1,3-Dichlorobenzene	13.736	146	2782	0.458	ug/l	91
88) 1,4-Dichlorobenzene	13.736	146	2782	0.458	ug/l	91
89) n-Butylbenzene	14.065	91	3920	0.406	ug/l	86
91) 1,2-Dichlorobenzene	14.113	146	2197	0.362	ug/l	86
92) 1,2-Dibromo-3-Chloropr...	14.730	75	371	0.429	ug/l	95
93) 1,2,4-Trichlorobenzene	15.401	180	3230	5.374	ug/l	85
95) Naphthalene	15.642	128	9919	6.793	ug/l	99
96) 1,2,3-Trichlorobenzene	15.836	180	3544	5.754	ug/l	81

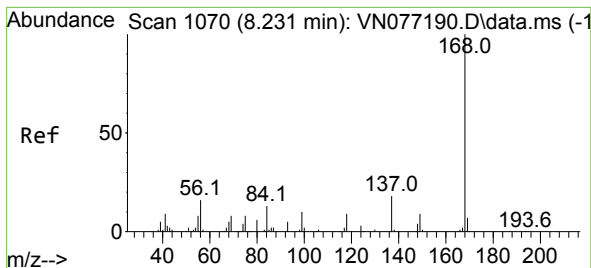
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
Data File : VN077205.D
Acq On : 27 Mar 2023 16:43
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Quant Title : SW846 8260
QLast Update : Mon Mar 27 02:47:06 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

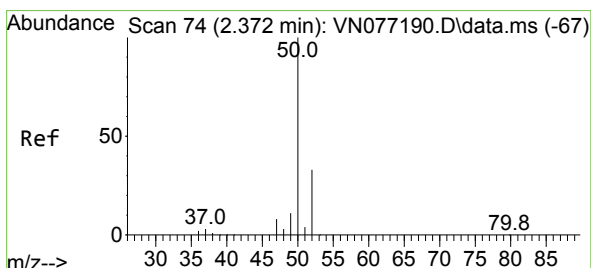
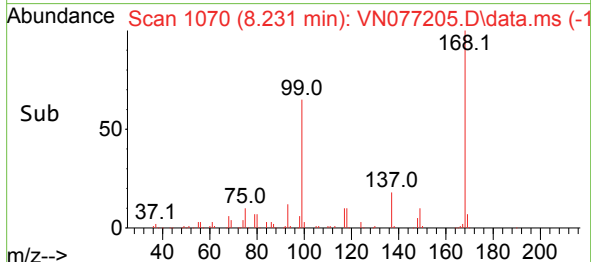
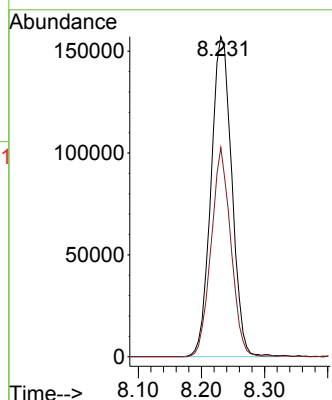
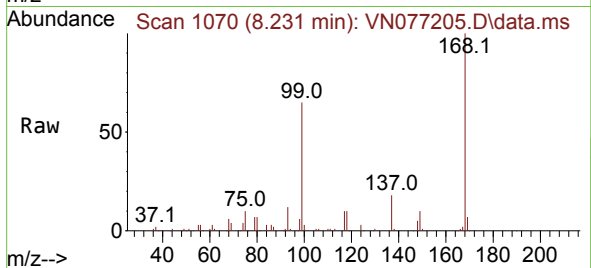
VN0327WBL01

Tgt Ion:168 Resp: 359341

Ion Ratio Lower Upper

168 100

99 65.4 48.6 73.0



#3

Chloromethane

Concen: 0.336 ug/l

RT: 2.372 min Scan# 74

Delta R.T. 0.000 min

Lab File: VN077205.D

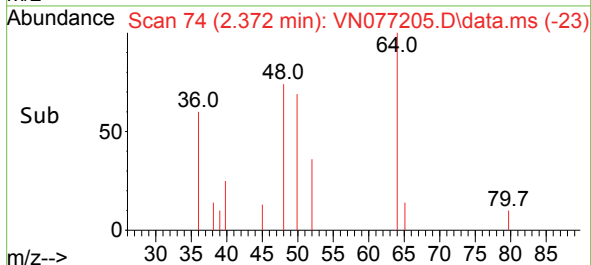
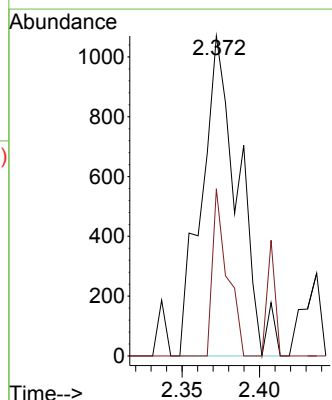
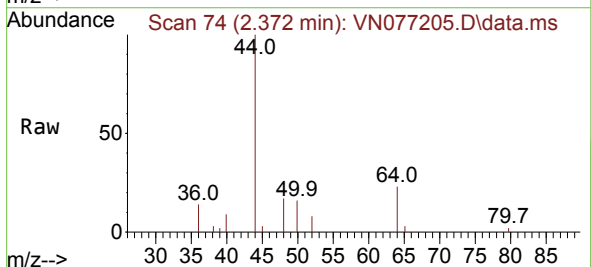
Acq: 27 Mar 2023 16:43

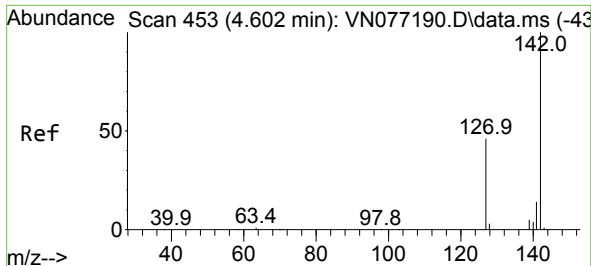
Tgt Ion: 50 Resp: 1768

Ion Ratio Lower Upper

50 100

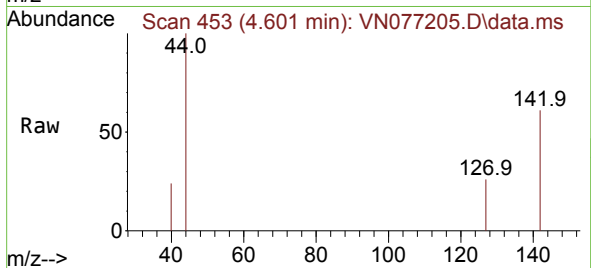
52 52.2 27.9 41.9#



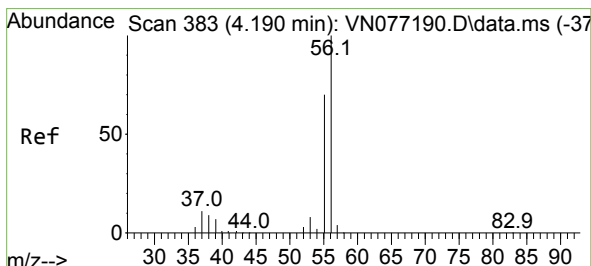
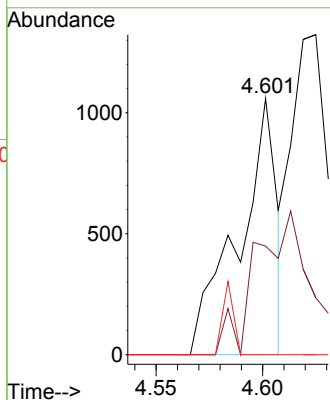
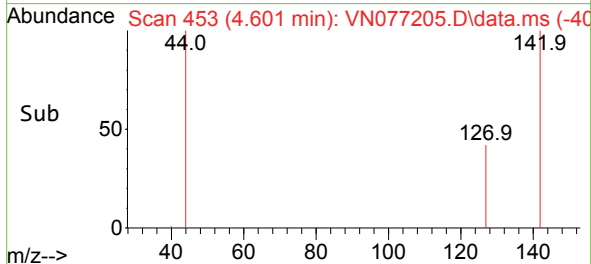


#10
Methyl Iodide
Concen: 0.301 ug/l
RT: 4.601 min Scan# 41
Delta R.T. -0.001 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

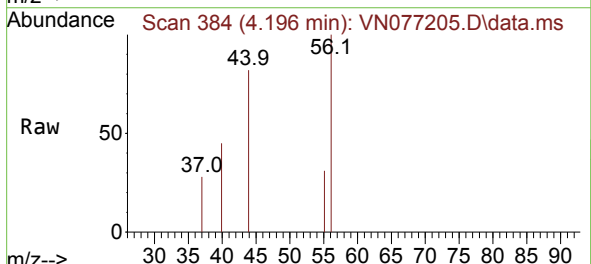
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01



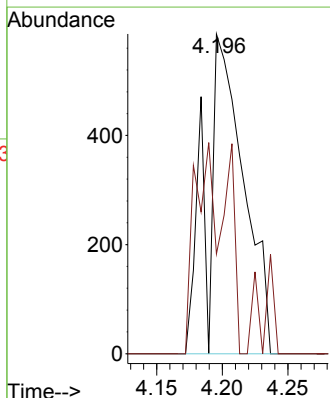
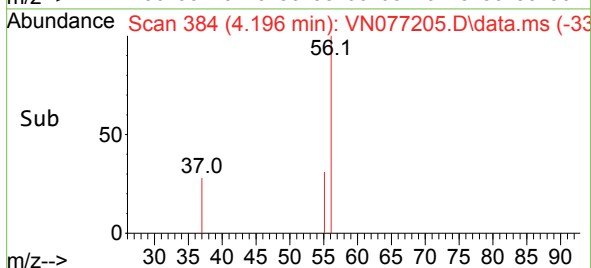
Tgt Ion:142 Resp: 1324
Ion Ratio Lower Upper
142 100
127 42.4 35.2 52.8
141 0.0 10.2 15.2#

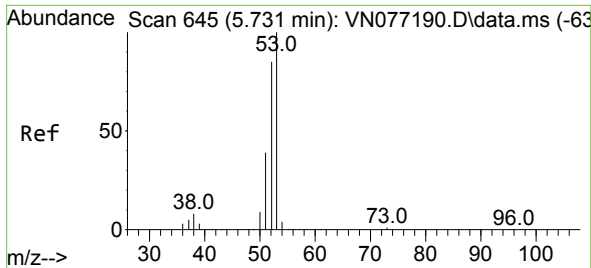


#13
Acrolein
Concen: 1.070 ug/l
RT: 4.196 min Scan# 384
Delta R.T. 0.006 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43



Tgt Ion: 56 Resp: 1149
Ion Ratio Lower Upper
56 100
55 55.7 56.7 85.1#

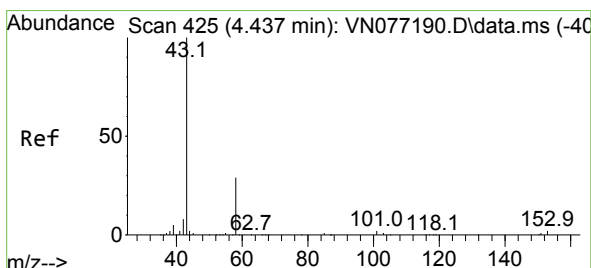
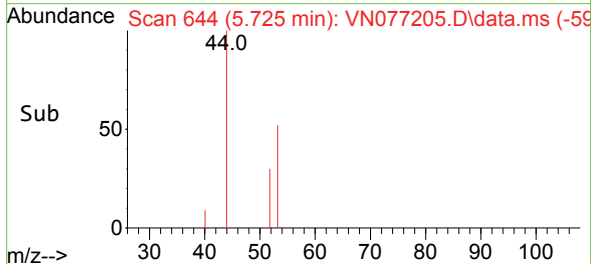
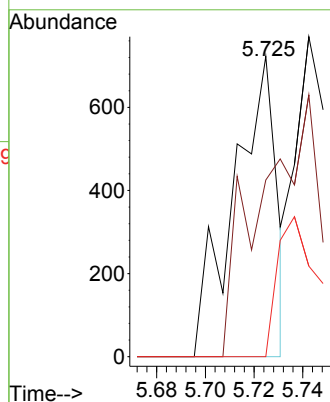
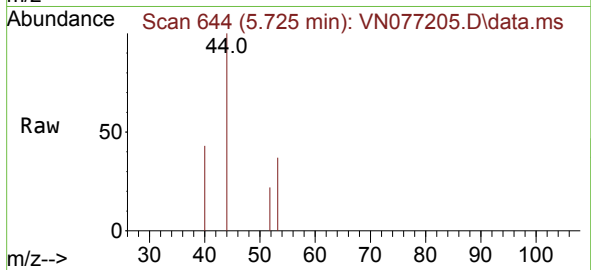




#15
Acrylonitrile
Concen: 0.369 ug/l
RT: 5.725 min Scan# 645
Delta R.T. -0.006 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

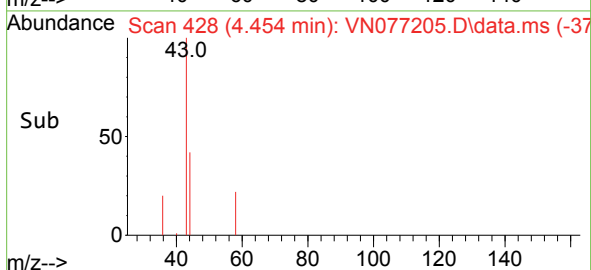
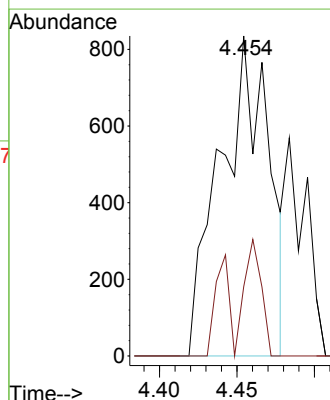
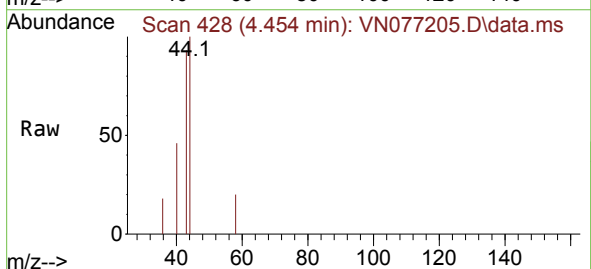
Instrument :
MSVOA_N
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VN0327WBL01

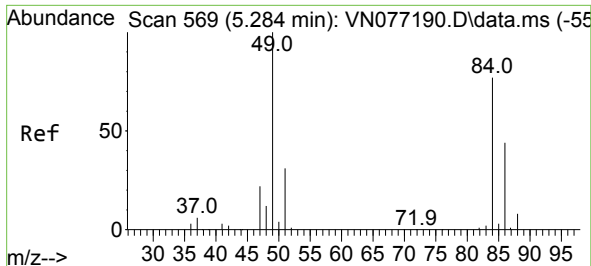
Tgt Ion: 53 Resp: 882
Ion Ratio Lower Upper
53 100
52 0.0 65.3 97.9#
51 0.0 28.8 43.2#



#16
Acetone
Concen: 0.868 ug/l
RT: 4.454 min Scan# 428
Delta R.T. 0.017 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 43 Resp: 1813
Ion Ratio Lower Upper
43 100
58 21.7 28.2 42.2#

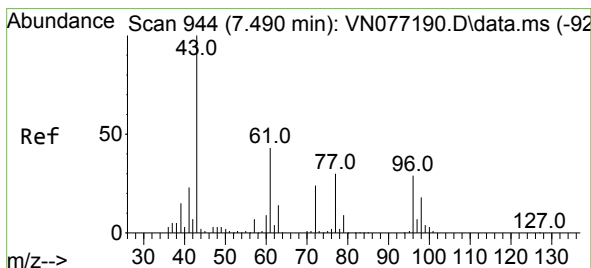
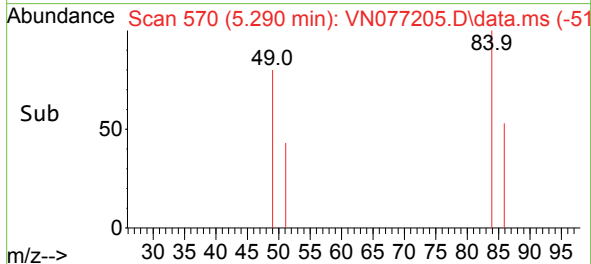
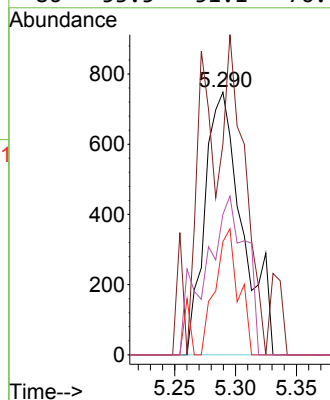
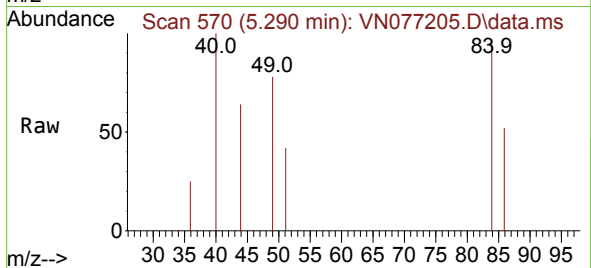




#20
Methylene Chloride
Concen: 0.344 ug/l
RT: 5.290 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

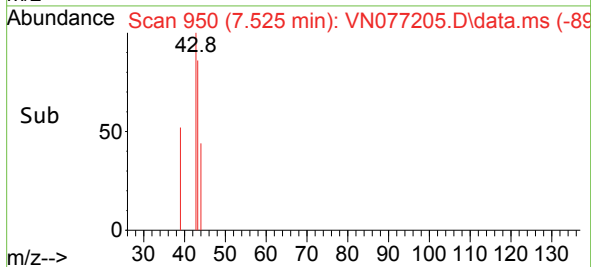
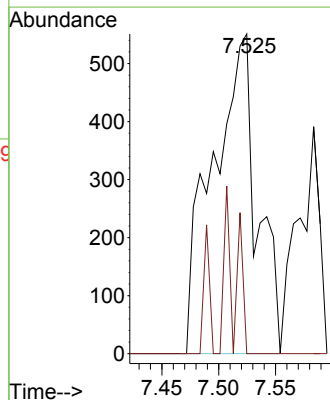
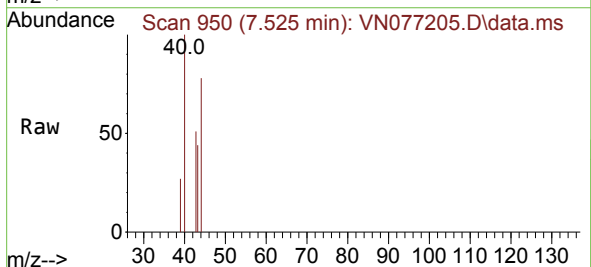
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

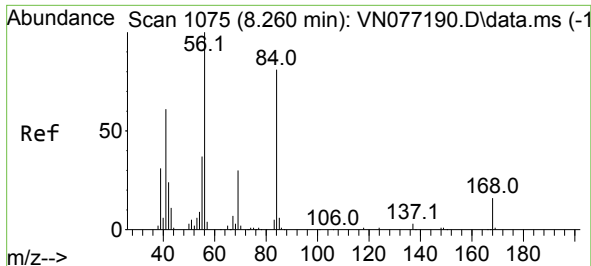
Tgt Ion:	84	Resp:	1602
Ion	Ratio	Lower	Upper
84	100		
49	52.1	76.6	114.8#
51	43.0	25.4	38.2#
86	53.5	51.1	76.7



#25
2-Butanone
Concen: 0.459 ug/l
RT: 7.525 min Scan# 950
Delta R.T. 0.035 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion:	43	Resp:	1499
Ion	Ratio	Lower	Upper
43	100		
72	0.0	28.8	43.2#

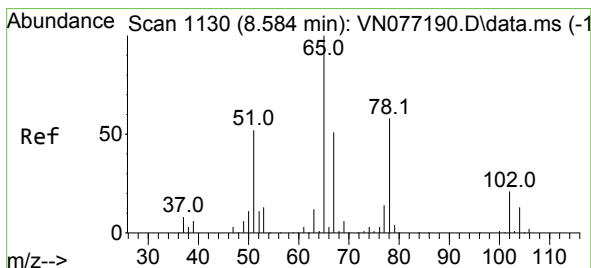
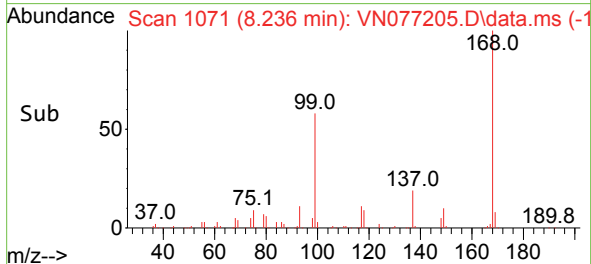
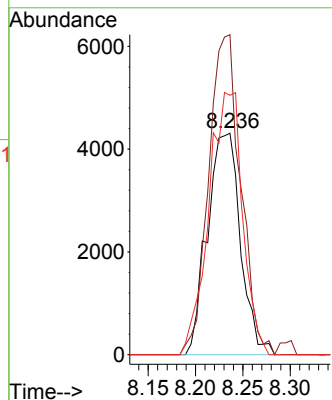
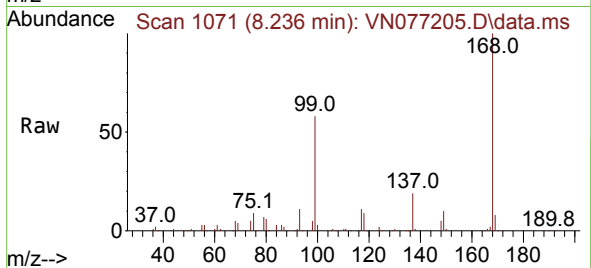




#31
Cyclohexane
Concen: 1.345 ug/l
RT: 8.236 min Scan# 1075
Delta R.T. -0.024 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

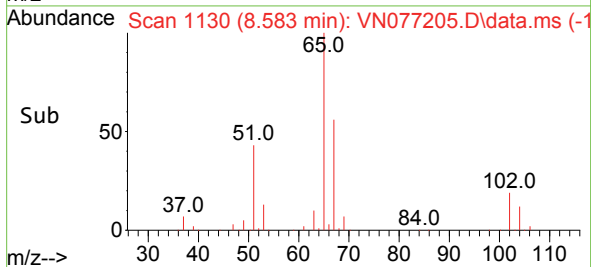
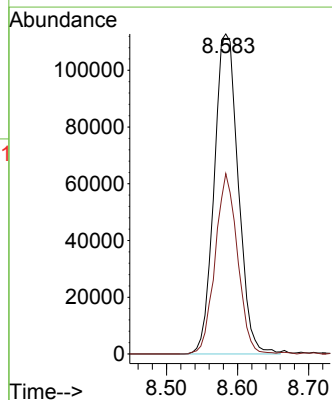
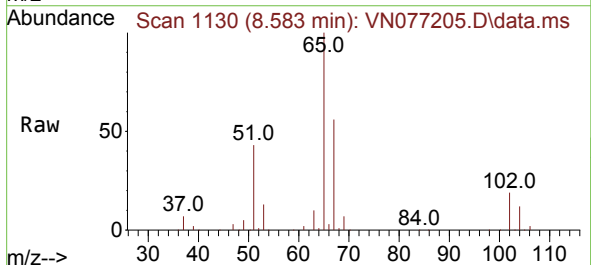
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

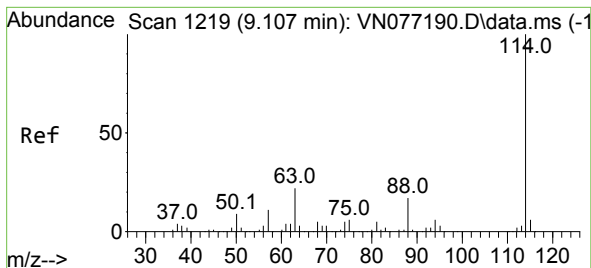
Tgt Ion: 56 Resp: 10497
Ion Ratio Lower Upper
56 100
69 144.5 27.0 40.6#
84 117.1 82.9 124.3



#33
1,2-Dichloroethane-d4
Concen: 47.226 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.001 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 65 Resp: 265337
Ion Ratio Lower Upper
65 100
67 52.3 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN0327WBL01

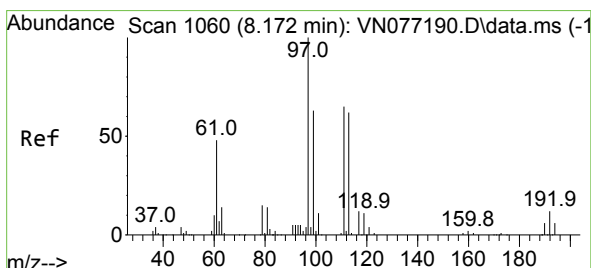
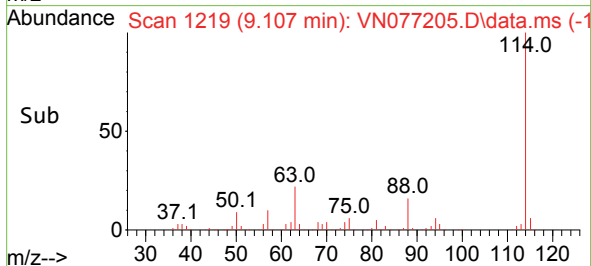
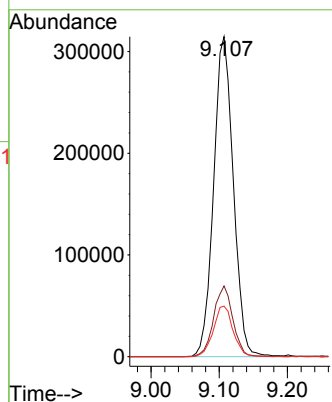
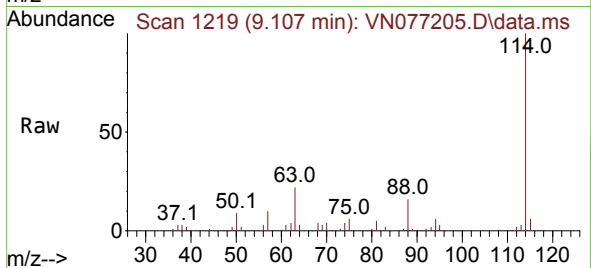
Tgt Ion:114 Resp: 632952

Ion Ratio Lower Upper

114 100

63 22.1 0.0 36.6

88 15.8 0.0 28.6



#35

Dibromofluoromethane

Concen: 48.127 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

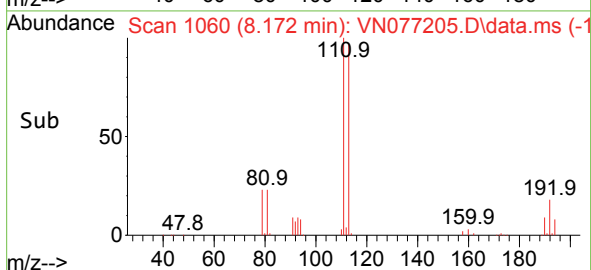
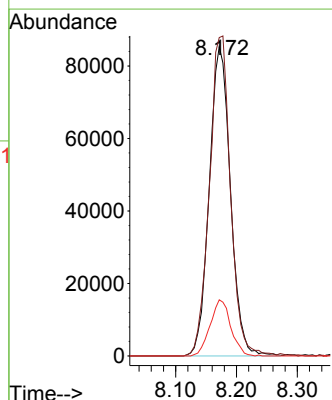
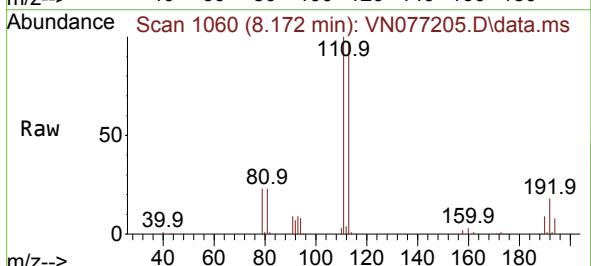
Tgt Ion:113 Resp: 206701

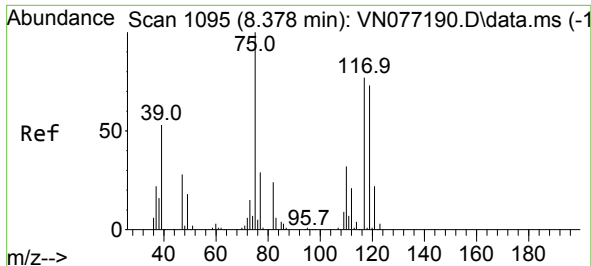
Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

192 17.7 13.9 20.9

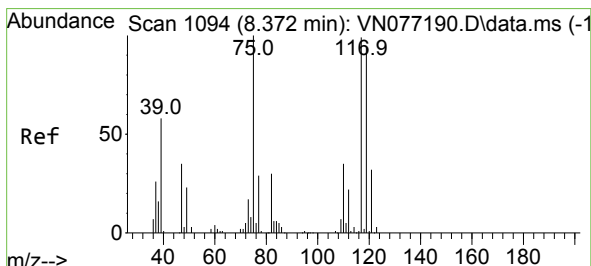
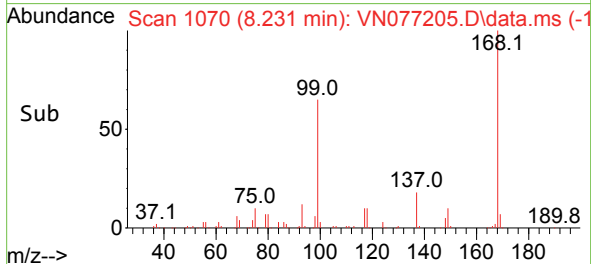
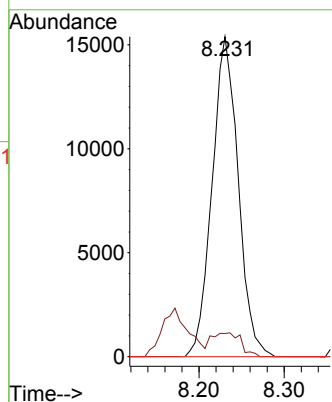
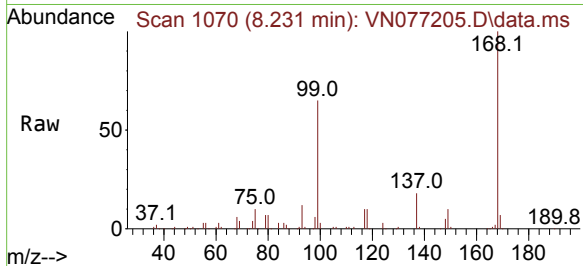




#36
1,1-Dichloropropene
Concen: 5.486 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

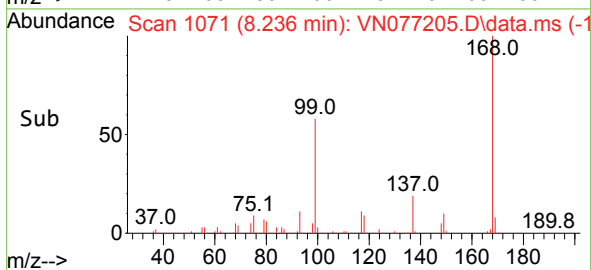
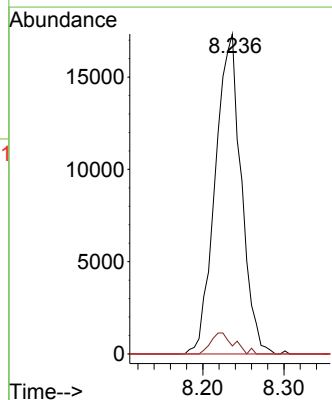
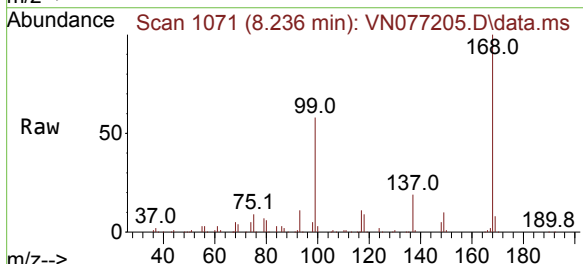
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

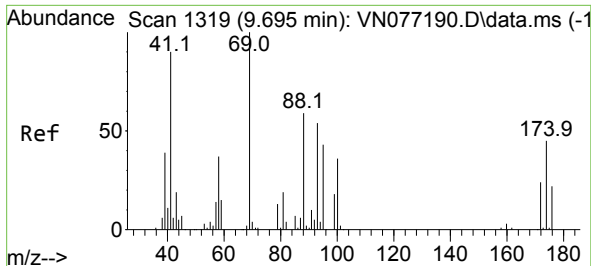
Tgt Ion: 75 Resp: 32790
Ion Ratio Lower Upper
75 100
110 8.5 18.9 56.9#
77 0.0 24.9 37.3#



#38
Carbon Tetrachloride
Concen: 6.361 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.136 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 117 Resp: 38553
Ion Ratio Lower Upper
117 100
119 2.5 76.9 115.3#
121 0.0 23.2 34.8#





#49

1,4-Dioxane

Concen: 1.541 ug/l

RT: 9.713 min Scan# 1319

Delta R.T. 0.018 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN0327WBL01

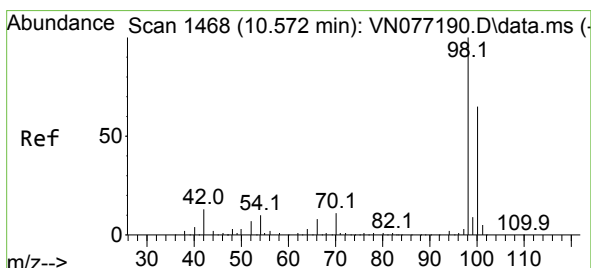
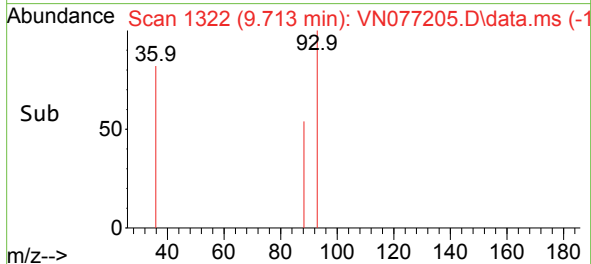
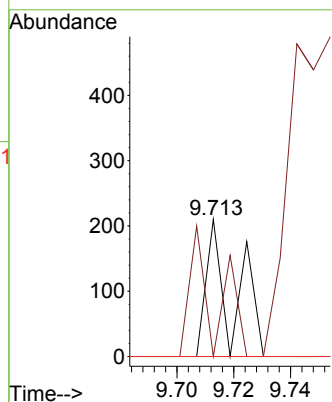
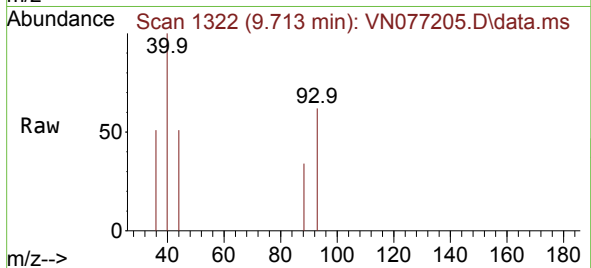
Tgt Ion: 88 Resp: 136

Ion Ratio Lower Upper

88 100

43 91.9 15.3 22.9#

58 0.0 47.6 71.4#



#50

Toluene-d8

Concen: 46.935 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077205.D

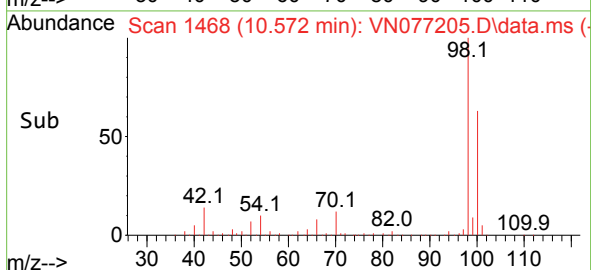
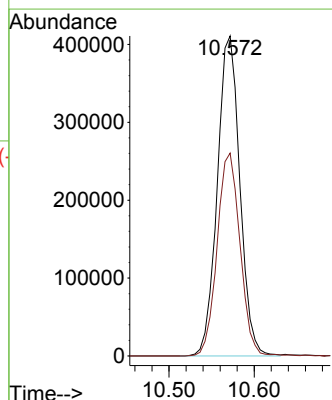
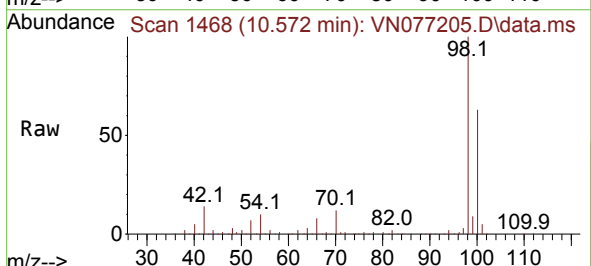
Acq: 27 Mar 2023 16:43

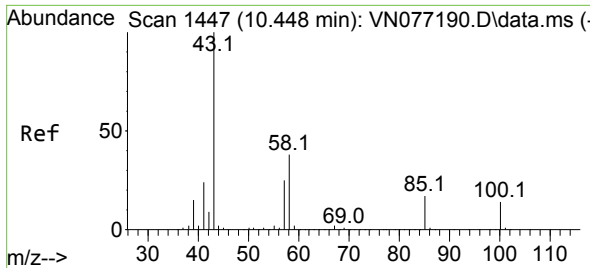
Tgt Ion: 98 Resp: 755331

Ion Ratio Lower Upper

98 100

100 64.3 52.8 79.2

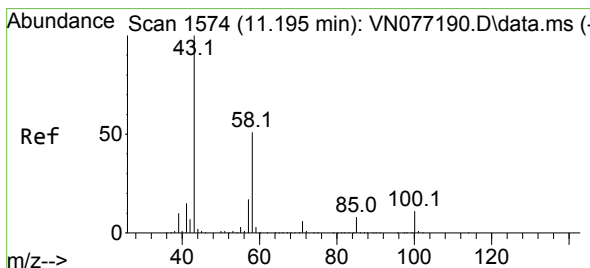
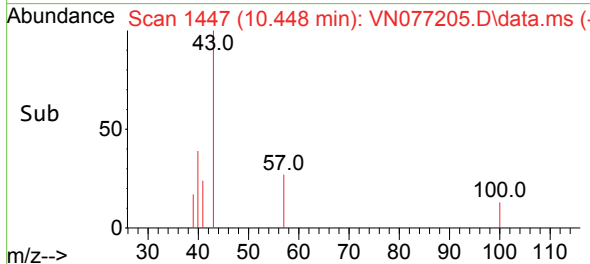
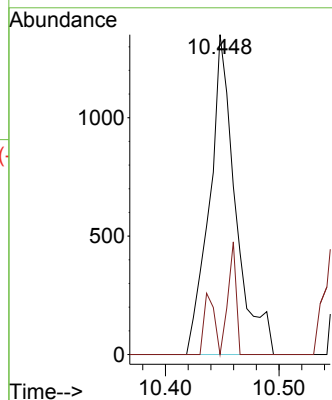
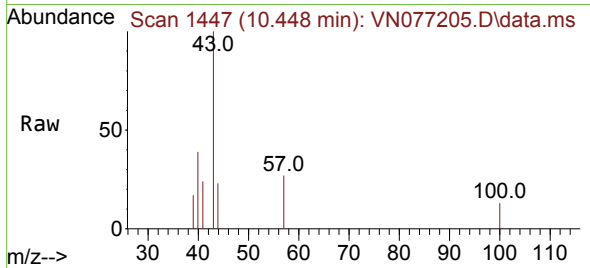




#51
4-Methyl-2-Pentanone
Concen: 0.318 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

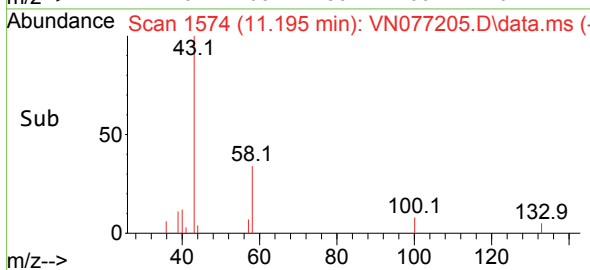
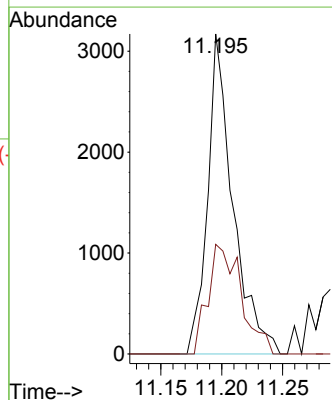
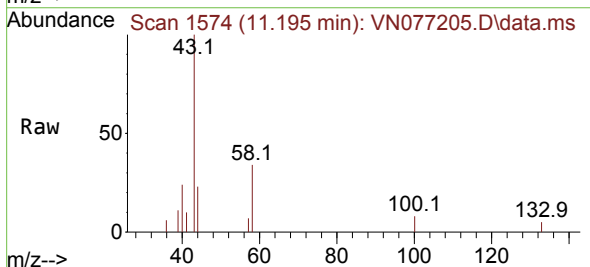
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

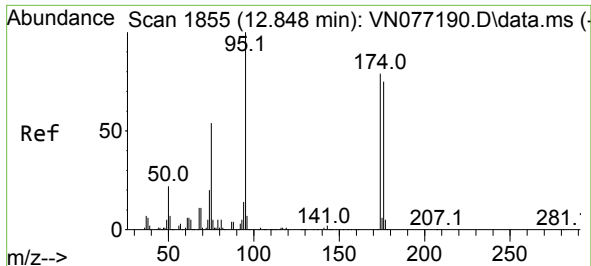
Tgt Ion: 43 Resp: 2154
Ion Ratio Lower Upper
43 100
58 11.0 37.4 56.0#



#59
2-Hexanone
Concen: 0.944 ug/l
RT: 11.195 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 43 Resp: 4589
Ion Ratio Lower Upper
43 100
58 45.0 32.6 98.0

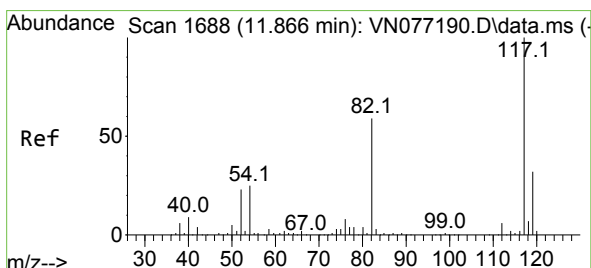
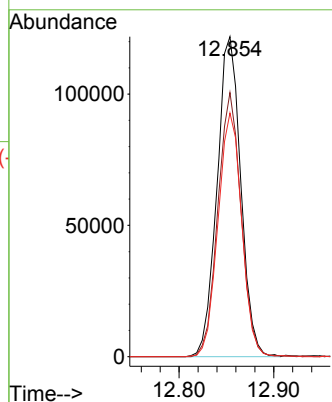
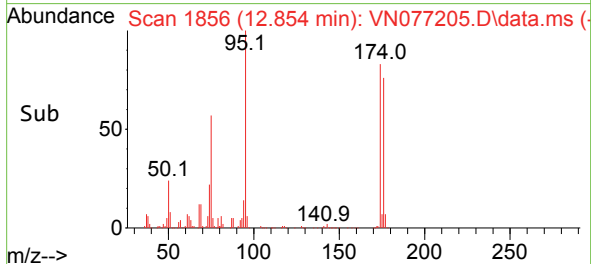
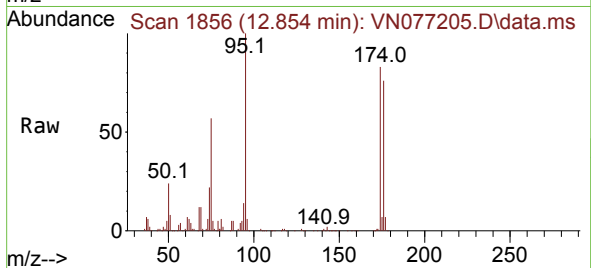




#62
4-Bromofluorobenzene
Concen: 40.173 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

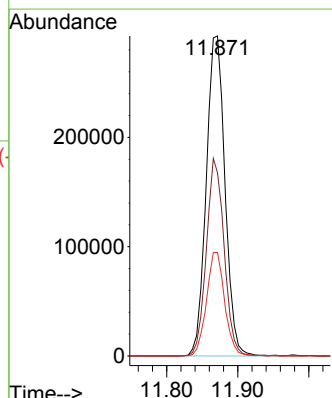
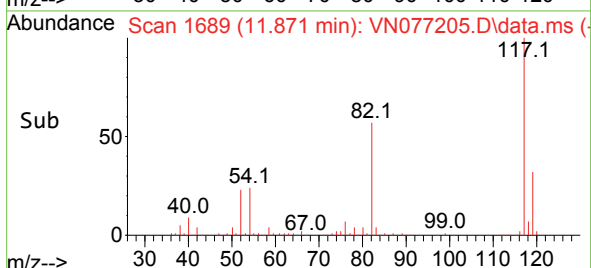
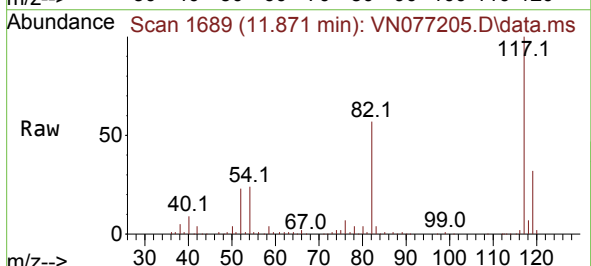
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

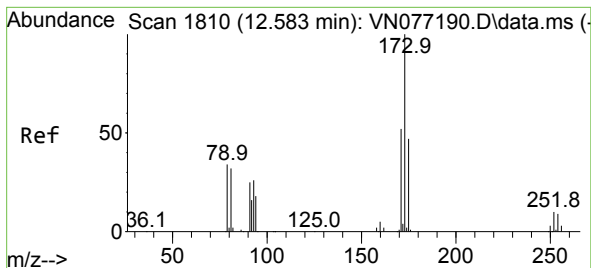
Tgt Ion: 95 Resp: 212179
Ion Ratio Lower Upper
95 100
174 80.7 0.0 162.4
176 76.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.005 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 117 Resp: 537062
Ion Ratio Lower Upper
117 100
82 57.3 43.5 65.3
119 32.3 25.5 38.3





#71

Bromoform

Concen: 0.523 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. 0.265 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN0327WBL01

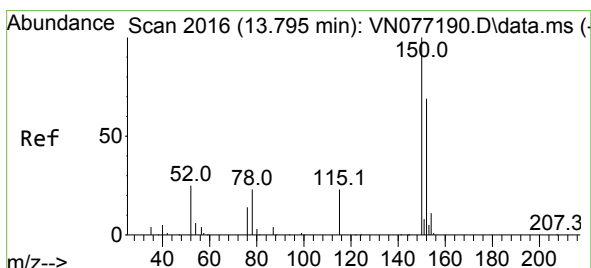
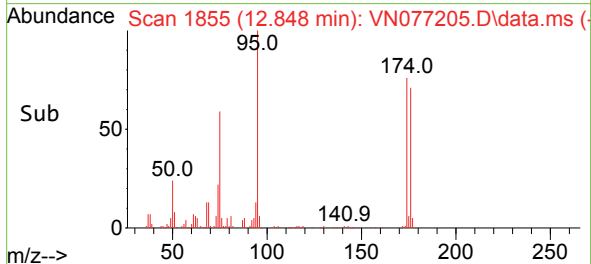
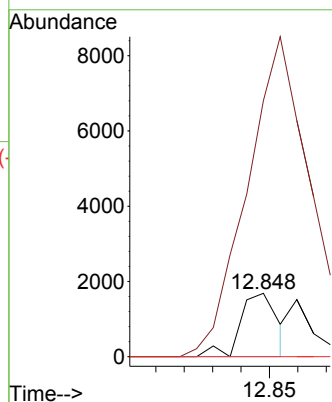
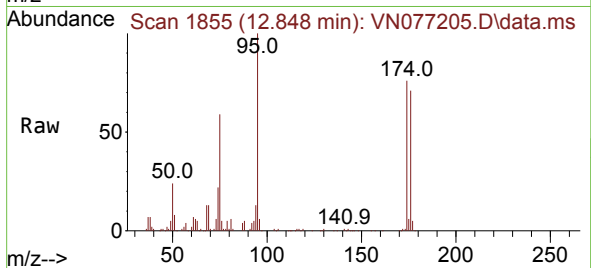
Tgt Ion:173 Resp: 1530

Ion Ratio Lower Upper

173 100

175 683.0 24.9 74.6#

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: VN077205.D

Acq: 27 Mar 2023 16:43

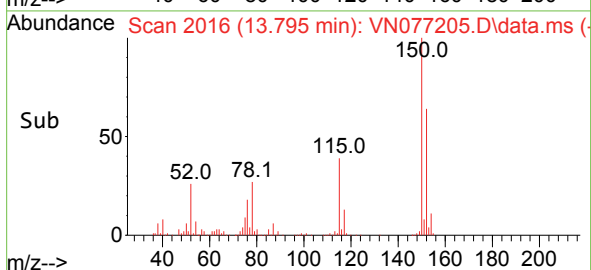
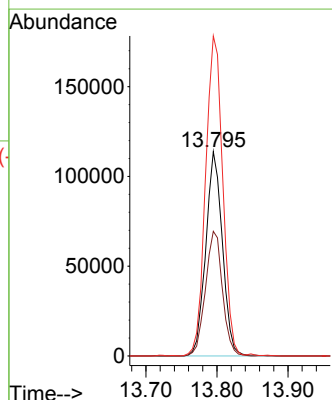
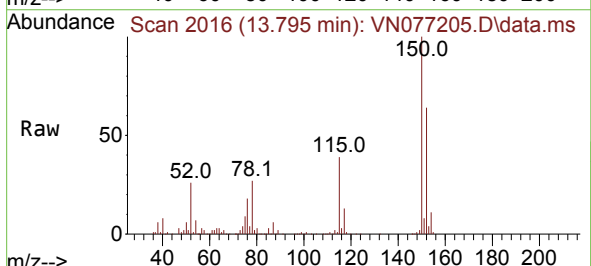
Tgt Ion:152 Resp: 185899

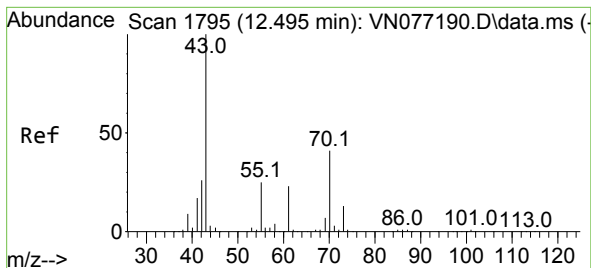
Ion Ratio Lower Upper

152 100

115 62.3 30.3 90.9

150 161.0 0.0 353.6





#74

N-amy1 acetate

Concen: 0.260 ug/l

RT: 12.495 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN0327WBL01

Tgt Ion: 43 Resp: 1655

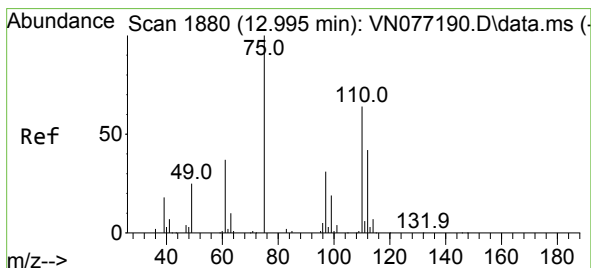
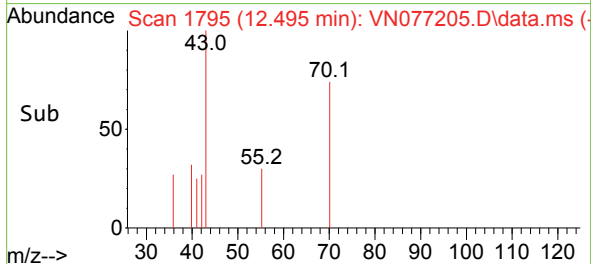
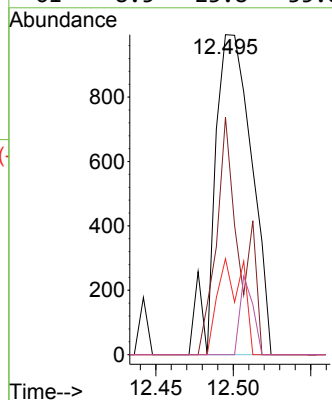
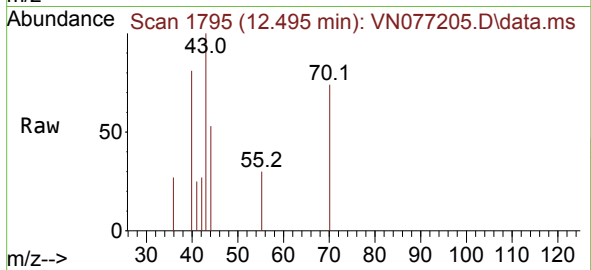
Ion Ratio Lower Upper

43 100

70 47.6 46.8 70.2

55 19.8 23.4 35.2#

61 8.5 23.8 35.8#



#76

1,2,3-Trichloropropane

Concen: 32.467 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077205.D

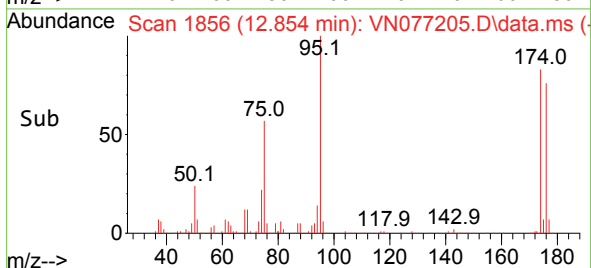
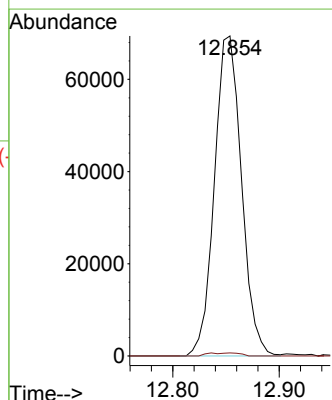
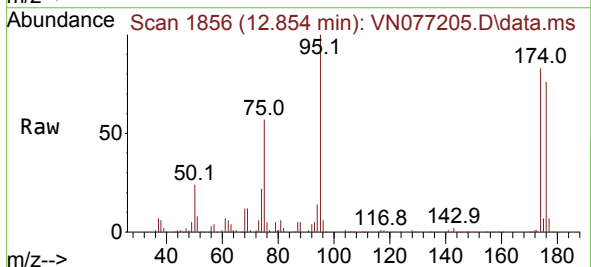
Acq: 27 Mar 2023 16:43

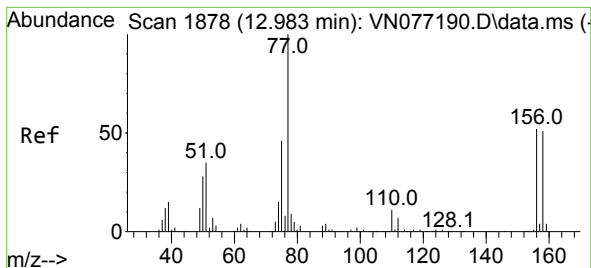
Tgt Ion: 75 Resp: 122436

Ion Ratio Lower Upper

75 100

77 0.5 93.8 281.4#





#77

Bromobenzene

Concen: 0.335 ug/l

RT: 12.983 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN0327WBL01

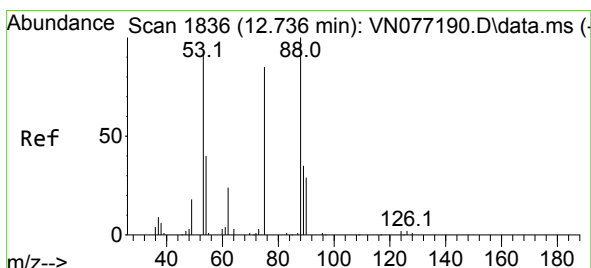
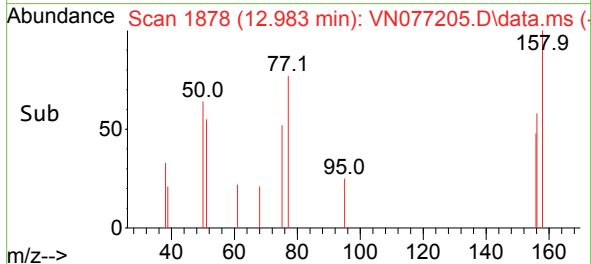
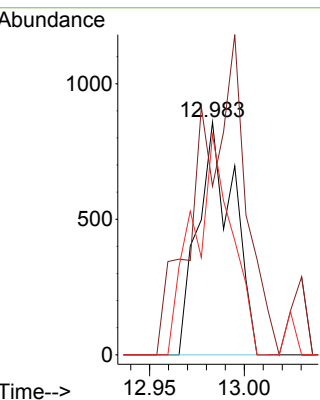
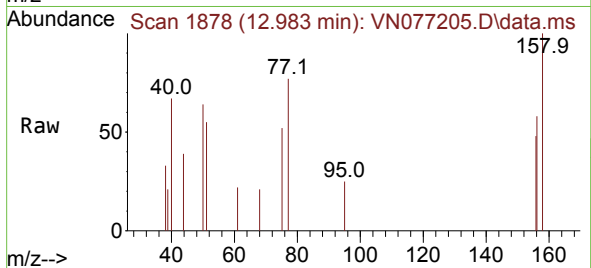
Tgt Ion:156 Resp: 1127

Ion Ratio Lower Upper

156 100

77 175.9 101.3 303.7

158 102.7 48.9 146.7



#81

trans-1,4-Dichloro-2-butene

Concen: 93.574 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

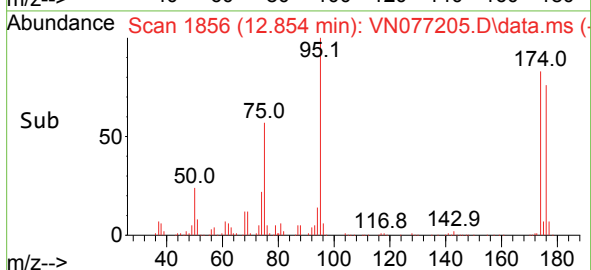
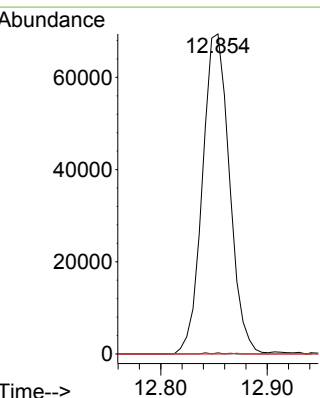
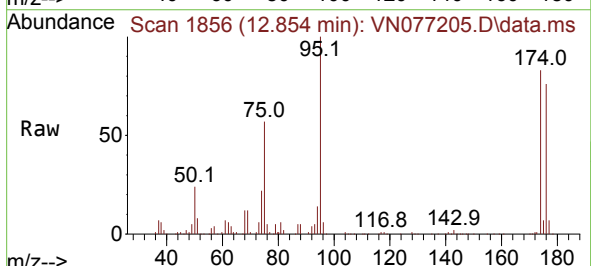
Tgt Ion: 75 Resp: 122436

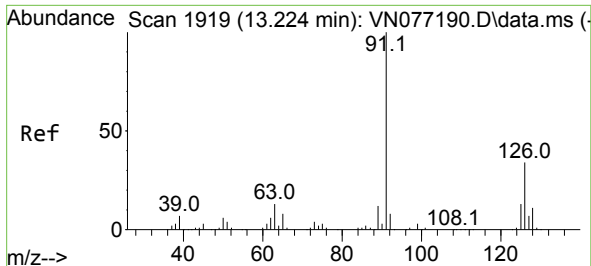
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.0#

89 0.0 39.5 59.3#

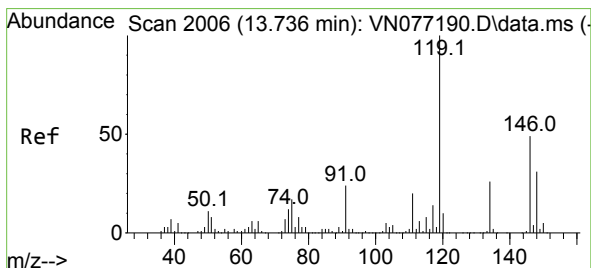
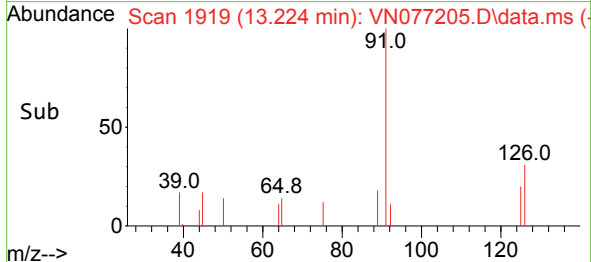
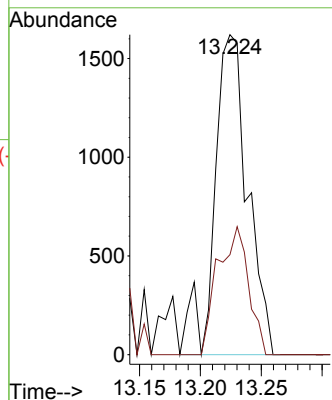
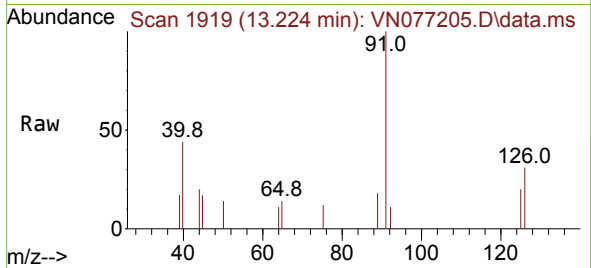




#82
4-Chlorotoluene
Concen: 0.313 ug/l
RT: 13.224 min Scan# 1919
Delta R.T. 0.000 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

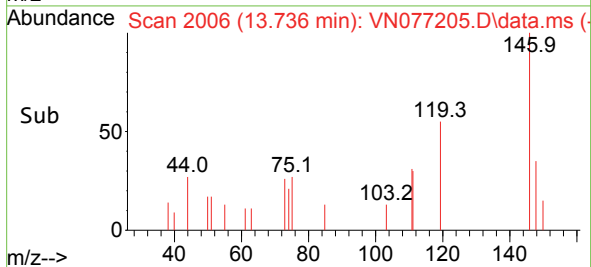
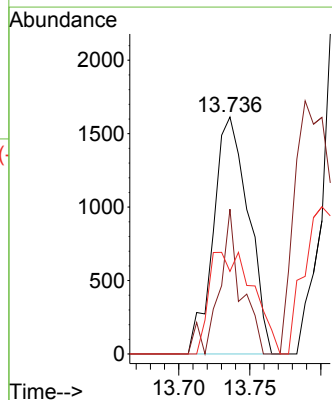
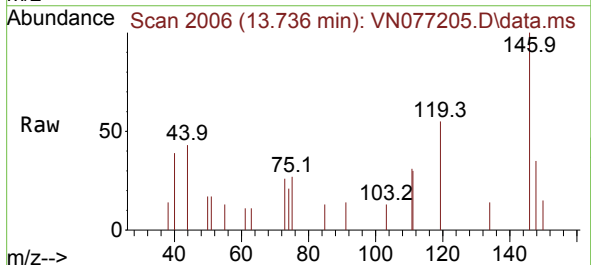
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

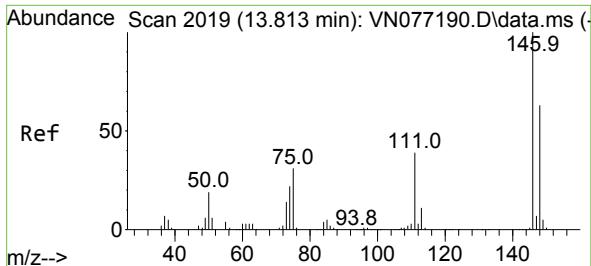
Tgt Ion: 91 Resp: 3082
Ion Ratio Lower Upper
91 100
126 36.8 18.0 54.0



#87
1,3-Dichlorobenzene
Concen: 0.458 ug/l
RT: 13.736 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 146 Resp: 2782
Ion Ratio Lower Upper
146 100
111 38.1 20.4 61.2
148 54.0 31.5 94.5

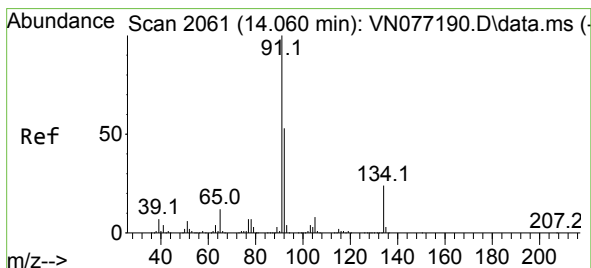
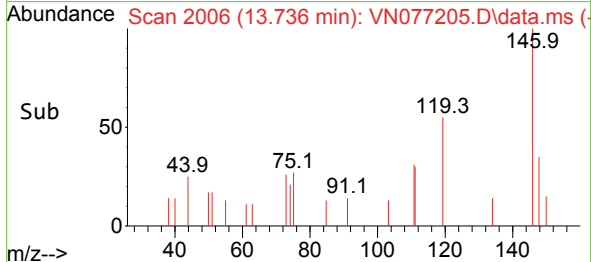
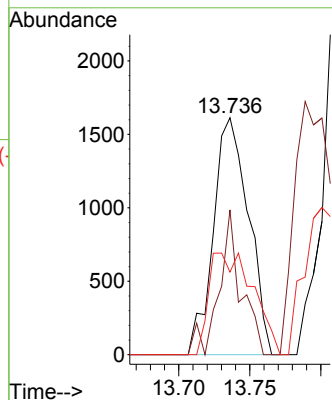
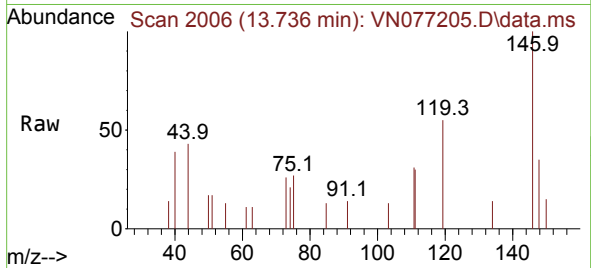




#88
 1,4-Dichlorobenzene
 Concen: 0.458 ug/l
 RT: 13.736 min Scan# 2019
 Delta R.T. -0.077 min
 Lab File: VN077205.D
 Acq: 27 Mar 2023 16:43

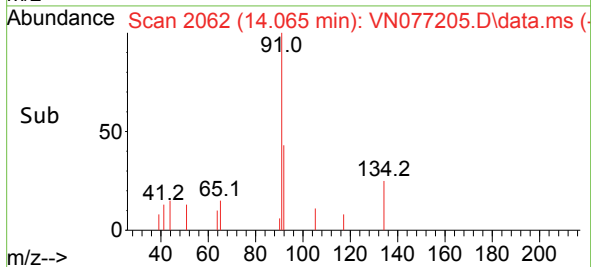
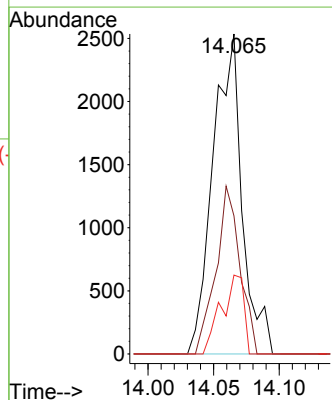
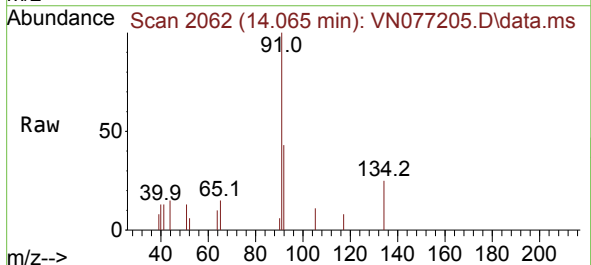
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0327WBL01

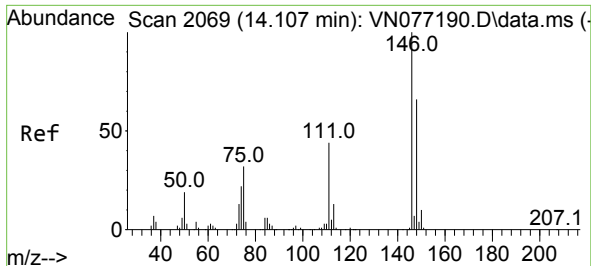
Tgt Ion:146 Resp: 2782
 Ion Ratio Lower Upper
 146 100
 111 38.1 20.0 60.0
 148 54.0 31.8 95.4



#89
 n-Butylbenzene
 Concen: 0.406 ug/l
 RT: 14.065 min Scan# 2062
 Delta R.T. 0.005 min
 Lab File: VN077205.D
 Acq: 27 Mar 2023 16:43

Tgt Ion: 91 Resp: 3920
 Ion Ratio Lower Upper
 91 100
 92 43.2 26.6 79.7
 134 19.0 13.6 40.7

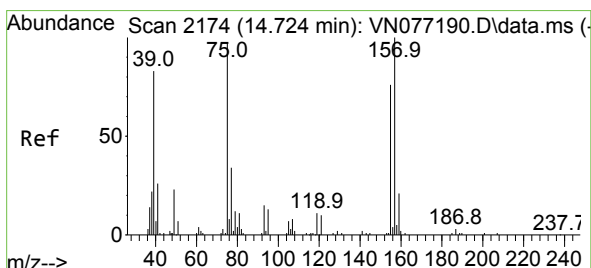
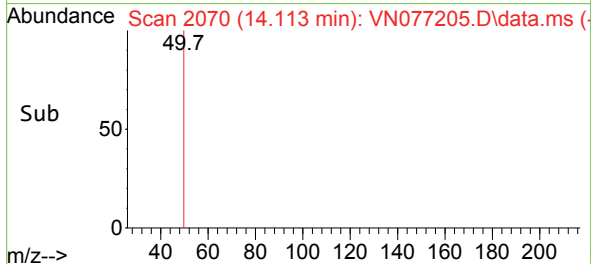
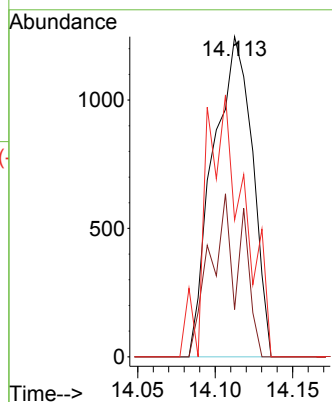
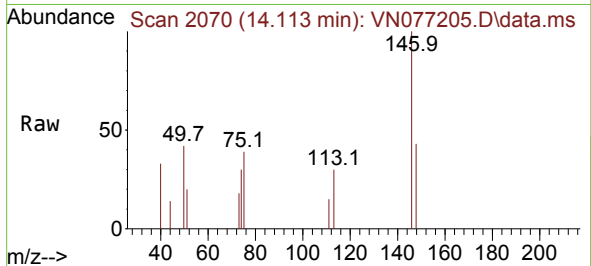




#91
1,2-Dichlorobenzene
Concen: 0.362 ug/l
RT: 14.113 min Scan# 2069
Delta R.T. 0.006 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

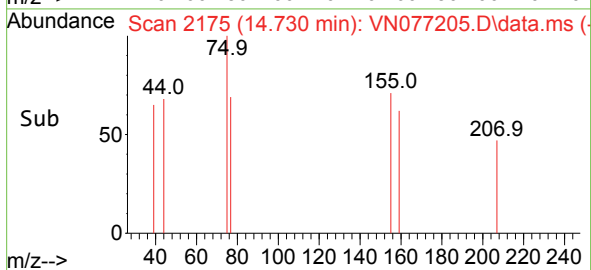
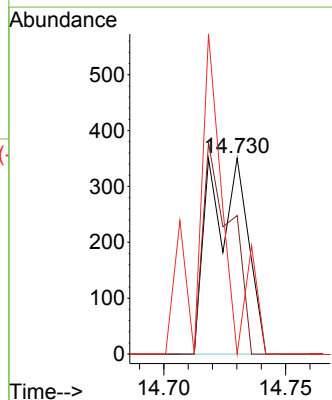
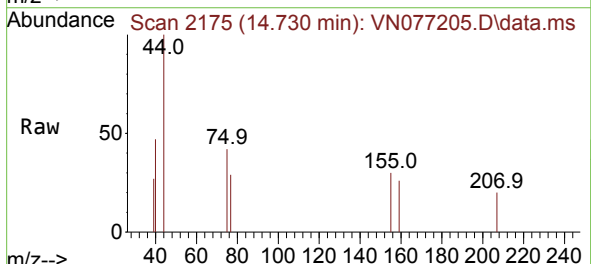
Instrument :
MSVOA_N
ClientSampleId :
VN0327WBL01

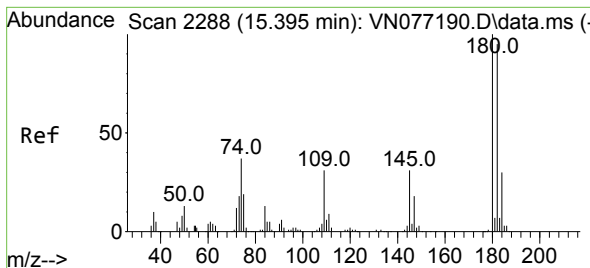
Tgt Ion:146 Resp: 2197
Ion Ratio Lower Upper
146 100
111 40.0 21.4 64.2
148 79.9 32.0 96.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.429 ug/l
RT: 14.730 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VN077205.D
Acq: 27 Mar 2023 16:43

Tgt Ion: 75 Resp: 371
Ion Ratio Lower Upper
75 100
155 81.1 44.3 132.8
157 120.5 58.3 174.8





#93

1,2,4-Trichlorobenzene

Concen: 5.374 ug/l

RT: 15.401 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN0327WBL01

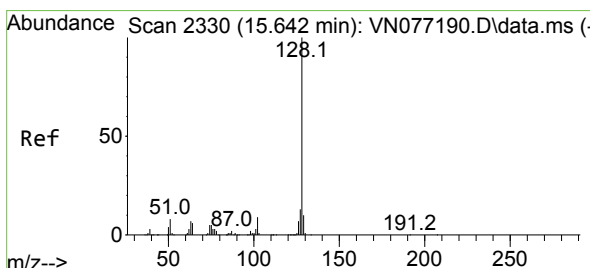
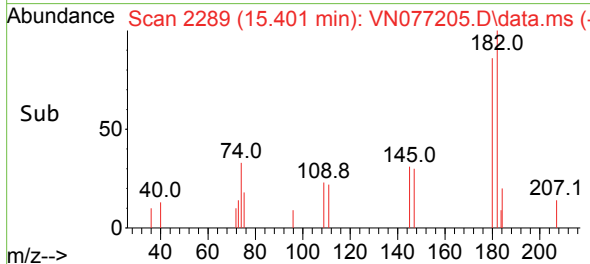
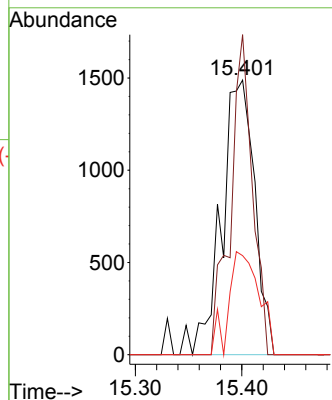
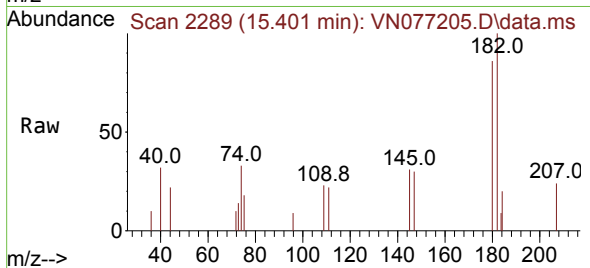
Tgt Ion:180 Resp: 3230

Ion Ratio Lower Upper

180 100

182 77.2 47.4 142.2

145 34.3 15.8 47.3



#95

Naphthalene

Concen: 6.793 ug/l

RT: 15.642 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN077205.D

Acq: 27 Mar 2023 16:43

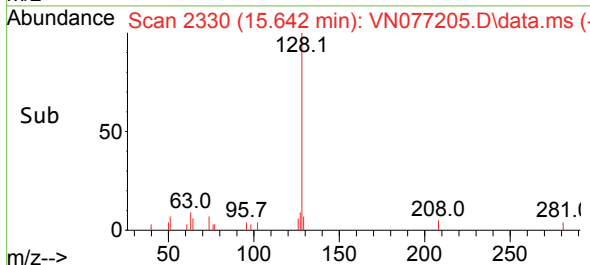
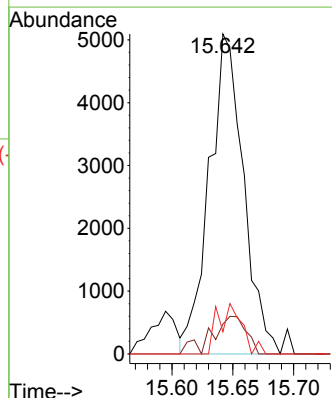
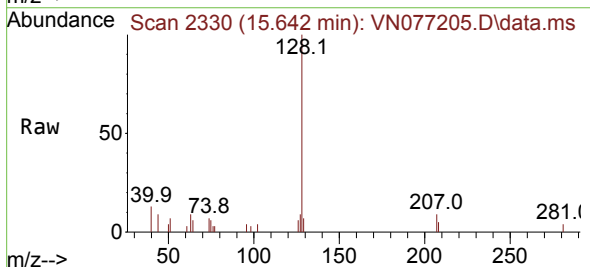
Tgt Ion:128 Resp: 9919

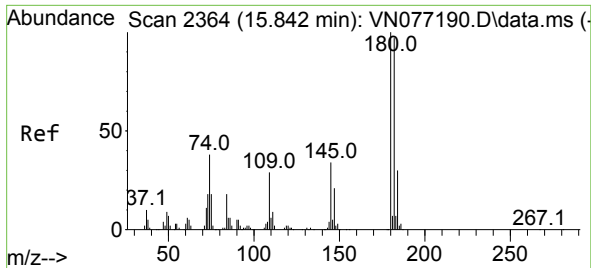
Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.4

129 11.2 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 5.754 ug/l
 RT: 15.836 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN077205.D
 Acq: 27 Mar 2023 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0327WBL01

Tgt Ion:	180	Resp:	3544
Ion	Ratio	Lower	Upper
180	100		
182	72.3	47.7	143.1
145	29.9	17.0	51.0

