

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012523\
 Data File : VN076399.D
 Acq On : 25 Jan 2023 14:10
 Operator : JC\MD
 Sample : 01291-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW10-GW-403-405

Quant Time: Jan 26 07:16:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

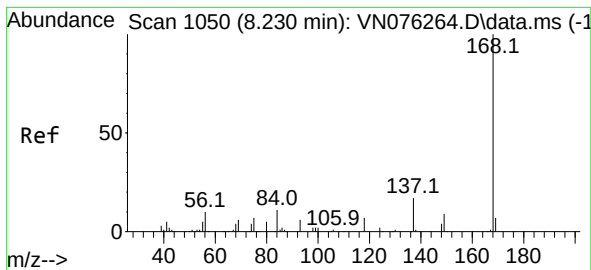
Internal Standards						
1) Pentafluorobenzene	8.230	168	375865	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	609601	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	518813	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	197489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	218141	51.833	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.660%	
35) Dibromofluoromethane	8.177	113	187872	49.267	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.540%	
50) Toluene-d8	10.571	98	702024	49.849	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.700%	
62) 4-Bromofluorobenzene	12.853	95	209359	45.538	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 91.080%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.530	59	308	0.547	ug/l #	72
16) Acetone	4.447	43	516	0.309	ug/l #	44
20) Methylene Chloride	5.289	84	122	Below Cal	#	60
31) Cyclohexane	8.230	56	8231	1.273	ug/l #	21
36) 1,1-Dichloropropene	8.230	75	29005	5.353	ug/l #	49
38) Carbon Tetrachloride	8.230	117	38989	6.452	ug/l #	16
51) 4-Methyl-2-Pentanone	10.571	43	2511	0.605	ug/l #	1
71) Bromoform	12.853	173	1322	0.449	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	113096	31.076	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	113096	95.282	ug/l #	11
93) 1,2,4-Trichlorobenzene	15.400	180	71	1.325	ug/l #	20
95) Naphthalene	15.641	128	1238	1.955	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.835	180	56	1.170	ug/l #	1

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

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The chromatogram displays the abundance of various compounds over time. The x-axis represents time in minutes, ranging from 0.00 to 16.00. The y-axis represents abundance, ranging from 0 to 1,150,000. The following table summarizes the labeled peaks:

Compound	Approximate Retention Time (min)	Approximate Abundance
Acetone, T	4.5	100,000
Tert butyl alcohol, T	5.5	150,000
Dibromofluoromethane, S	8.2	300,000
1,2-Dichloroethane-d4, S	8.5	250,000
1,4-Difluorobenzene, I	9.2	700,000
1,2,4-Trichlorobenzene, T	10.5	900,000
Naphthalene, T	12.5	650,000
1,2,3-Trichlorobenzene, T	13.0	700,000
1,4-Dichlorobenzene-d4, I	13.8	720,000
Chlorobenzene-d5, I	12.0	850,000



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.000 min

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MSVOA_N

ClientSampleId :

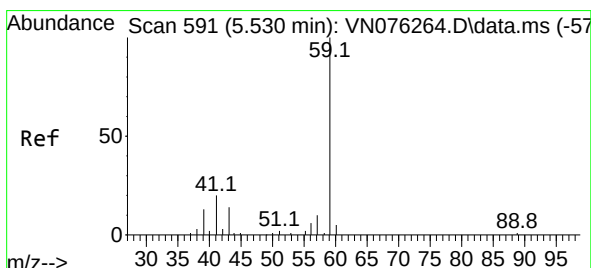
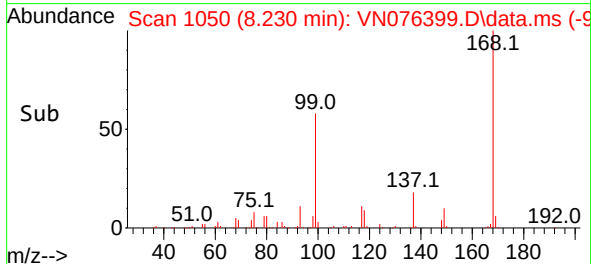
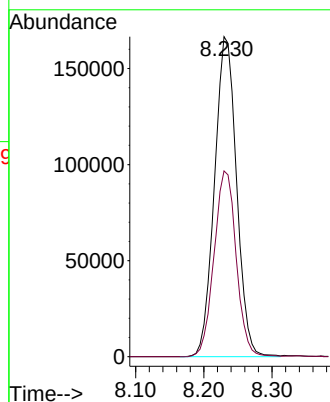
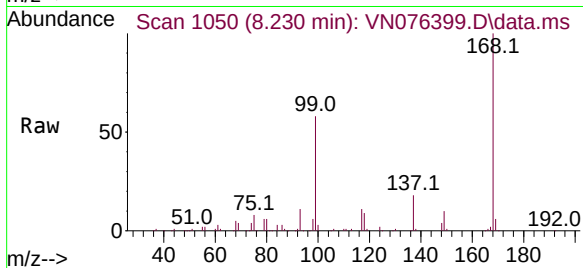
BP-VPB-RW10-GW-403-405

Tgt Ion:168 Resp: 375865

Ion Ratio Lower Upper

168 100

99 58.1 41.6 62.4



#11

Tert butyl alcohol

Concen: 0.547 ug/l

RT: 5.530 min Scan# 591

Delta R.T. -0.000 min

Lab File: VN076399.D

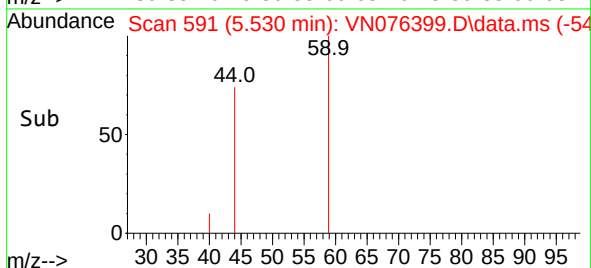
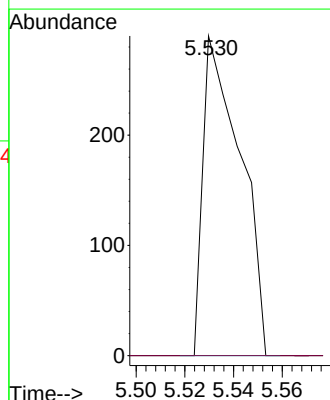
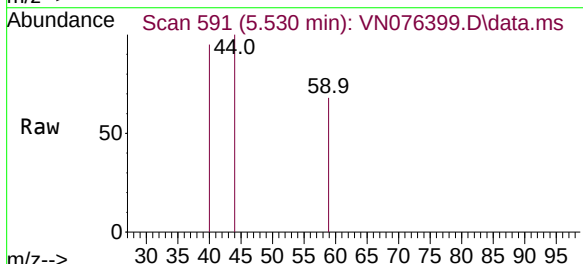
Acq: 25 Jan 2023 14:10

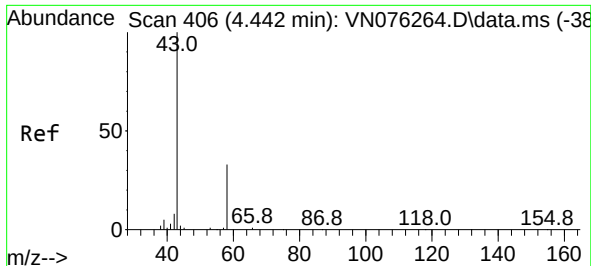
Tgt Ion: 59 Resp: 308

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#16

Acetone

Concen: 0.309 ug/l

RT: 4.447 min Scan# 406

Delta R.T. 0.005 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :

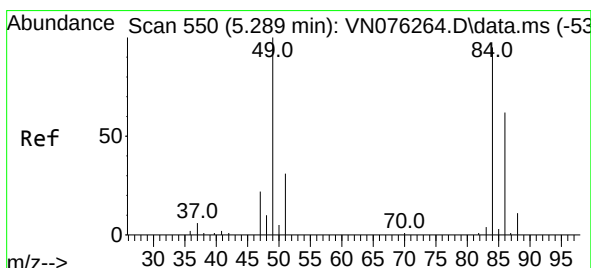
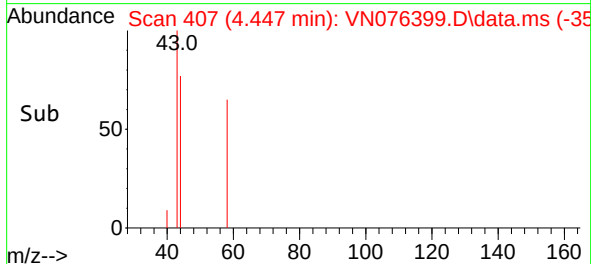
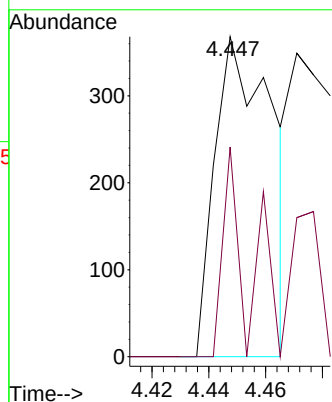
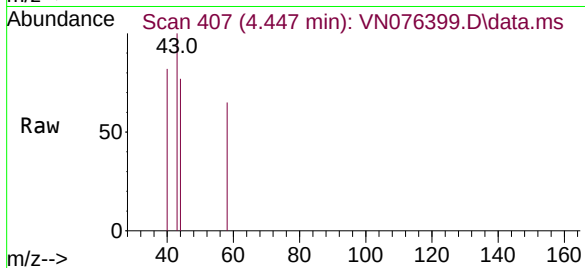
BP-VPB-RW10-GW-403-405

Tgt Ion: 43 Resp: 516

Ion Ratio Lower Upper

43 100

58 65.5 26.7 40.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.289 min Scan# 550

Delta R.T. -0.000 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

Tgt Ion: 84 Resp: 122

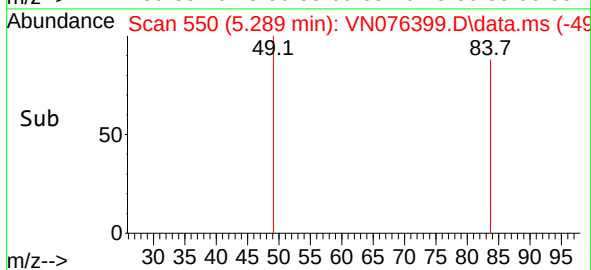
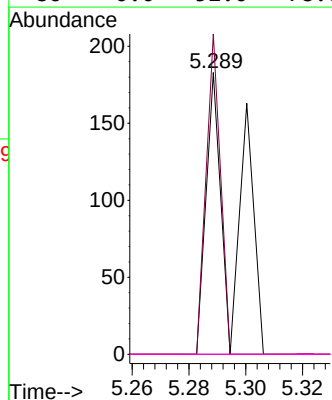
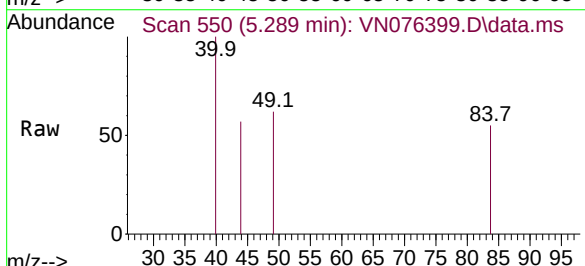
Ion Ratio Lower Upper

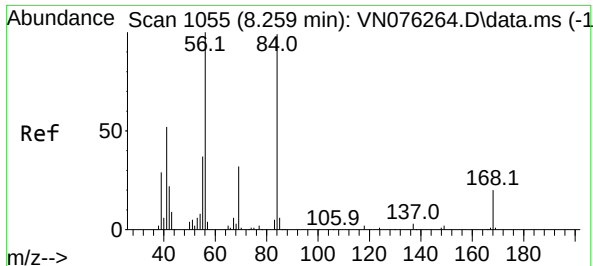
84 100

49 113.7 84.5 126.7

51 0.0 26.0 39.0#

86 0.0 52.0 78.0#

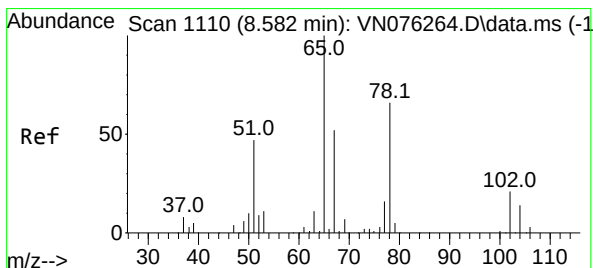
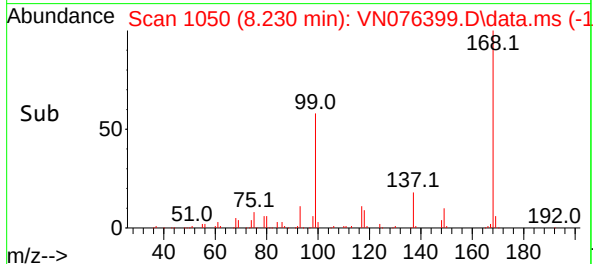
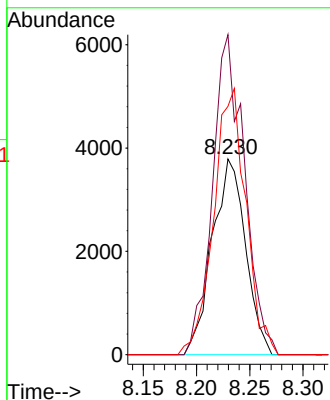
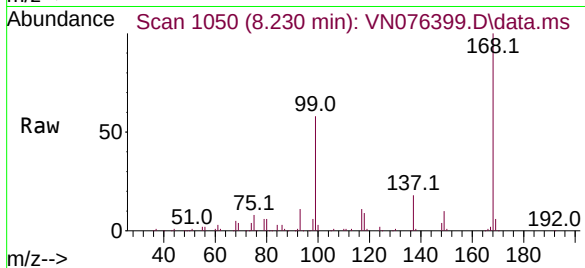




#31
Cyclohexane
Concen: 1.273 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

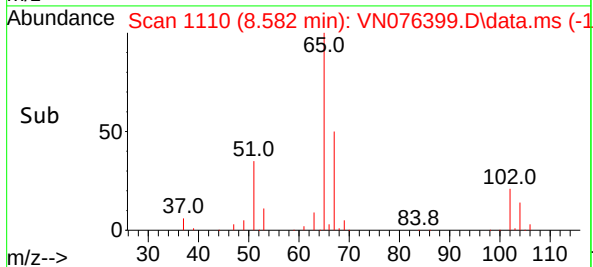
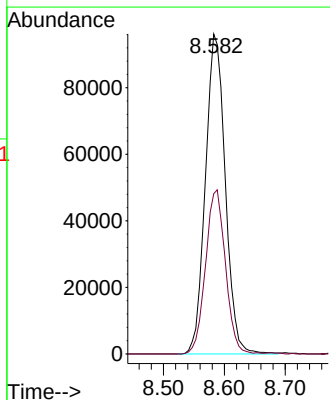
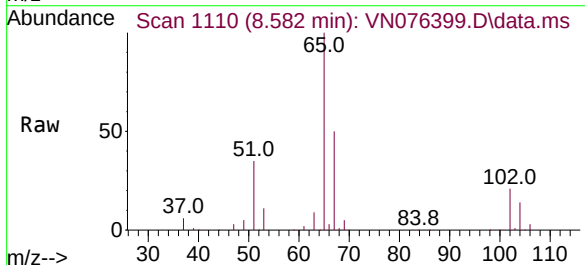
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-403-405

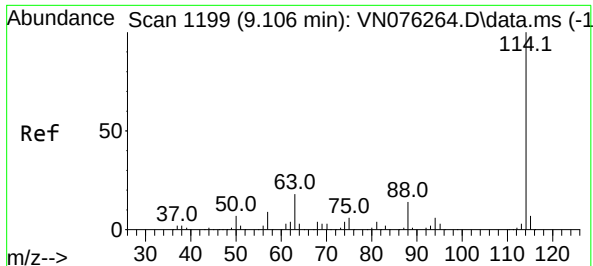
Tgt Ion: 56 Resp: 8231
Ion Ratio Lower Upper
56 100
69 163.5 25.8 38.8#
84 126.9 79.0 118.4#



#33
1,2-Dichloroethane-d4
Concen: 51.833 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

Tgt Ion: 65 Resp: 218141
Ion Ratio Lower Upper
65 100
67 51.3 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-403-405

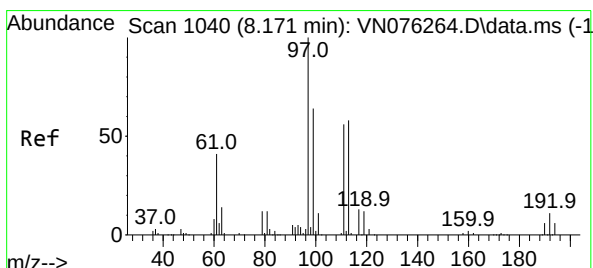
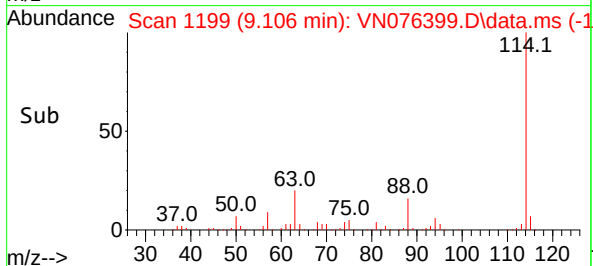
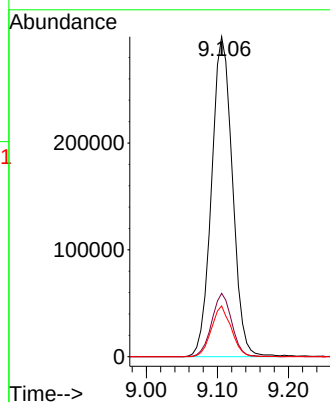
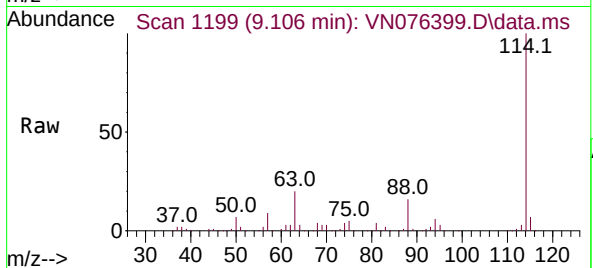
Tgt Ion:114 Resp: 609601

Ion Ratio Lower Upper

114 100

63 19.8 0.0 35.8

88 15.9 0.0 28.0



#35

Dibromofluoromethane

Concen: 49.267 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

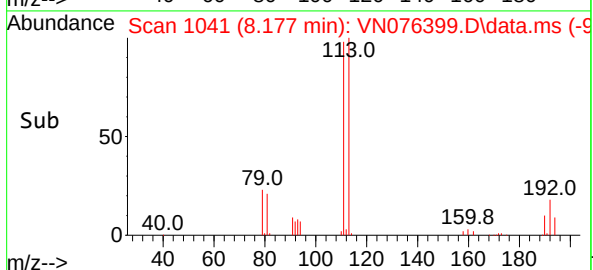
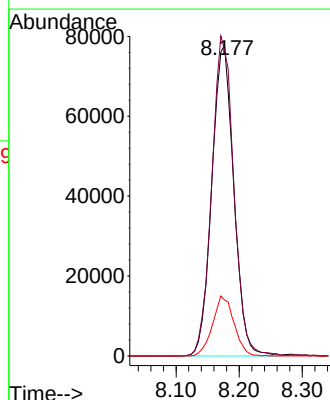
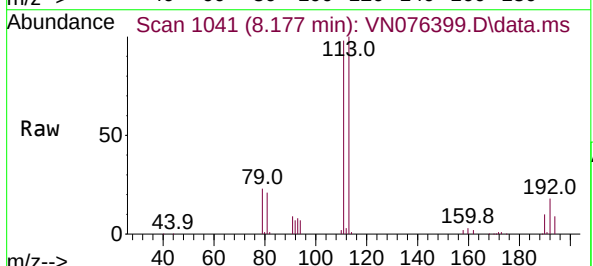
Tgt Ion:113 Resp: 187872

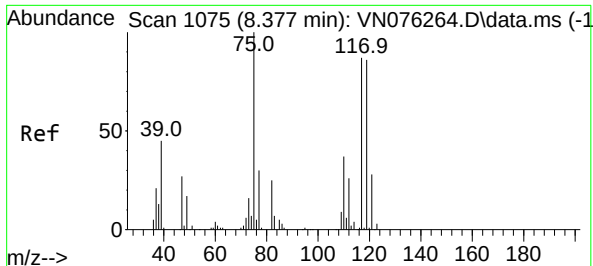
Ion Ratio Lower Upper

113 100

111 103.2 82.7 124.1

192 18.8 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.353 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-403-405

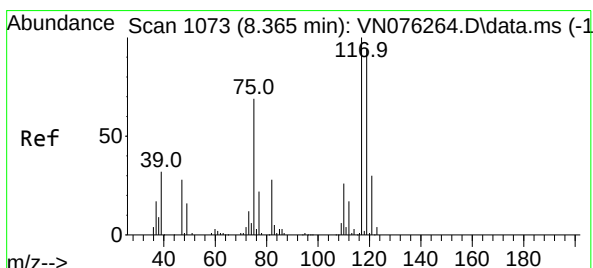
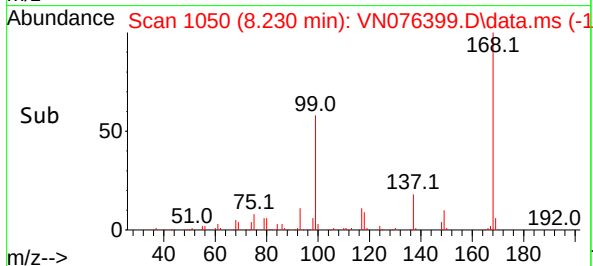
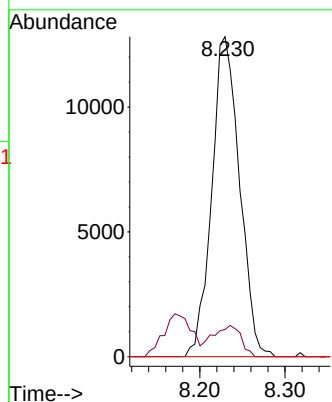
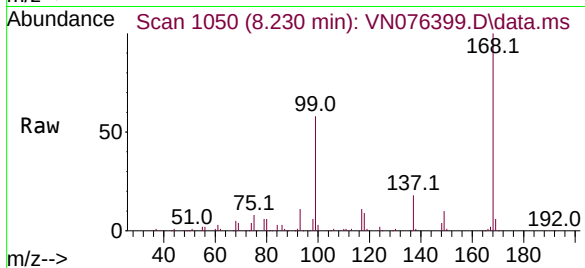
Tgt Ion: 75 Resp: 29005

Ion Ratio Lower Upper

75 100

110 9.4 18.8 56.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.452 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

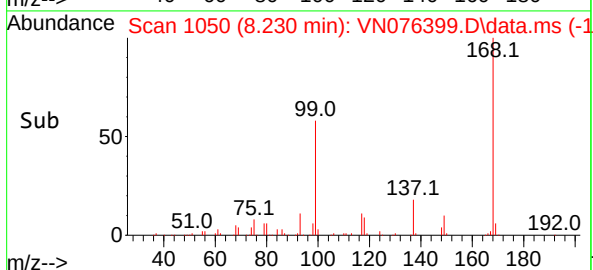
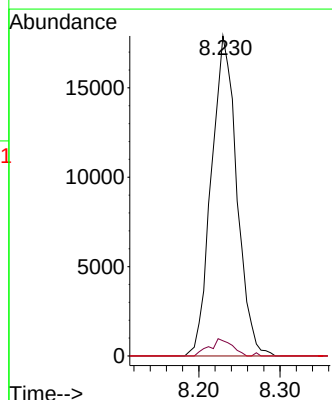
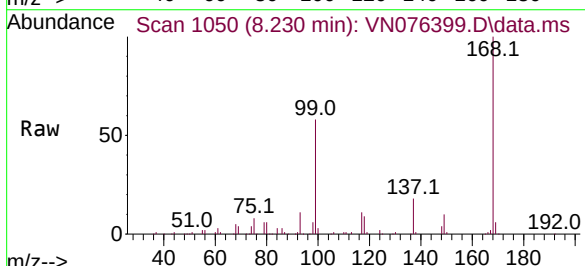
Tgt Ion: 117 Resp: 38989

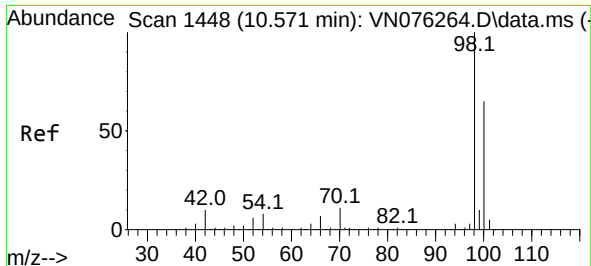
Ion Ratio Lower Upper

117 100

119 4.8 75.4 113.0#

121 0.0 24.2 36.2#

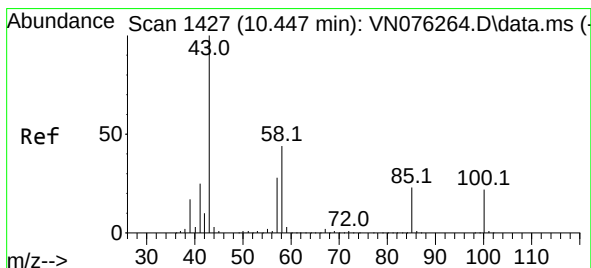
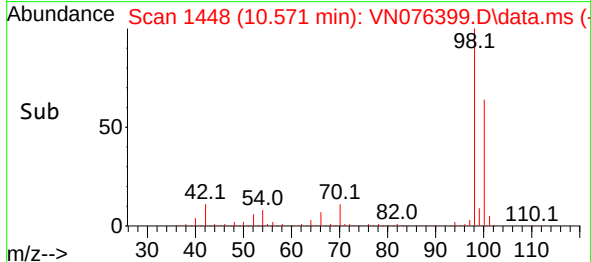
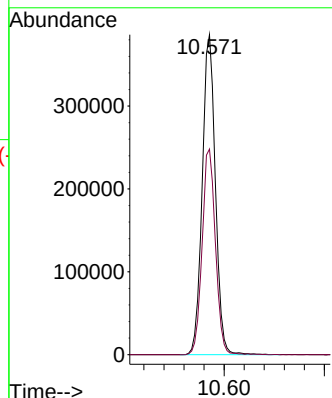
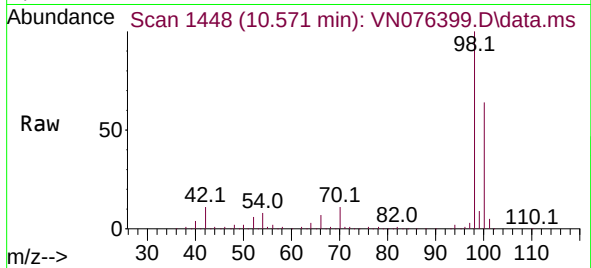




#50
Toluene-d8
Concen: 49.849 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

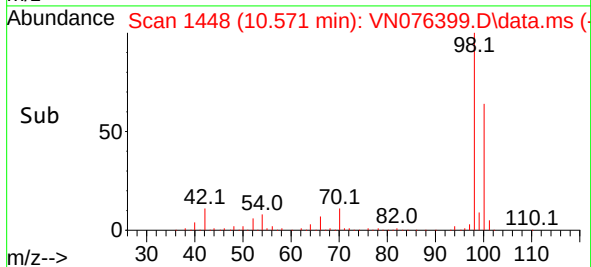
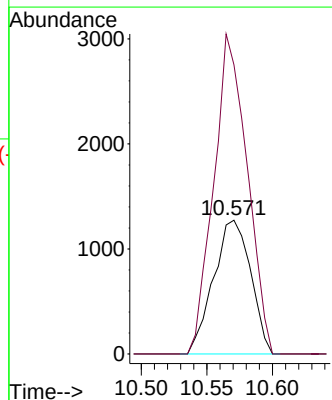
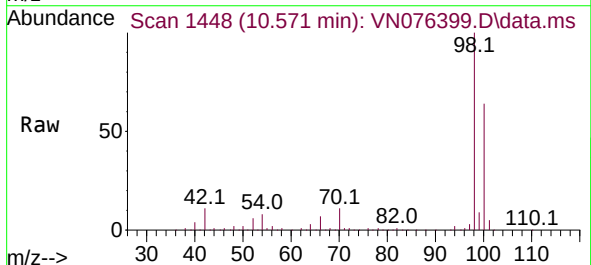
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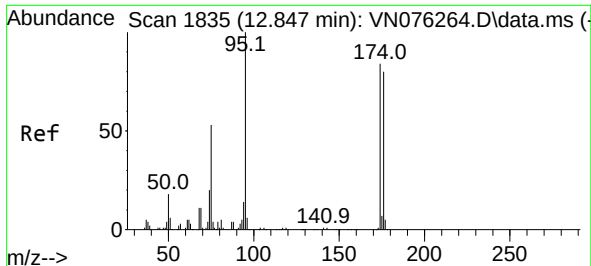
Tgt Ion: 98 Resp: 702024
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.605 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.124 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

Tgt Ion: 43 Resp: 2511
Ion Ratio Lower Upper
43 100
58 215.6 35.1 52.7#

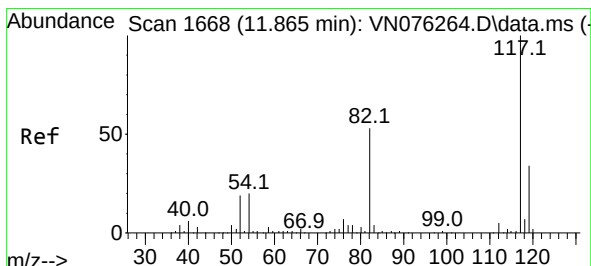
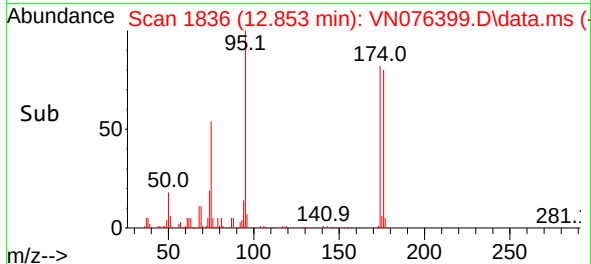
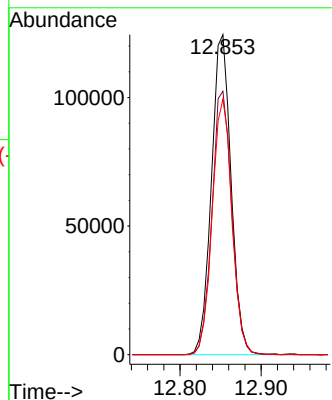
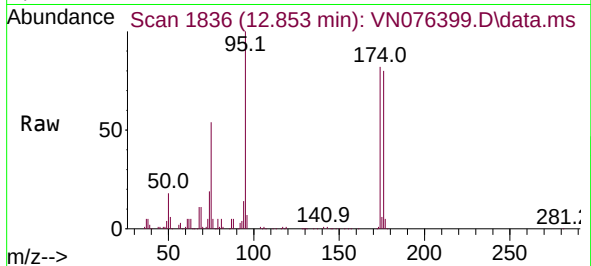




#62
4-Bromofluorobenzene
Concen: 45.538 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

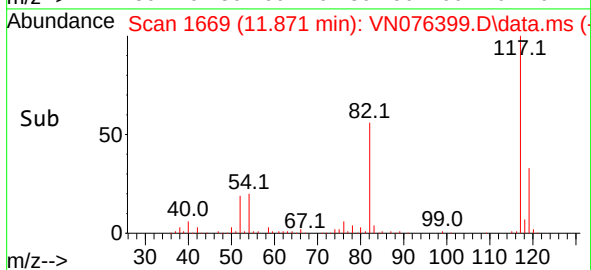
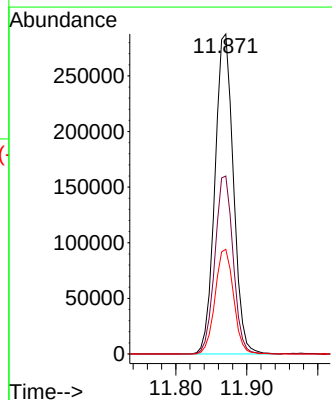
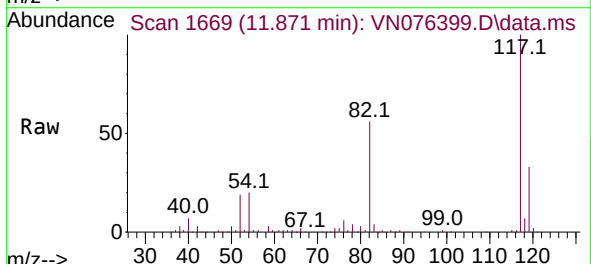
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-403-405

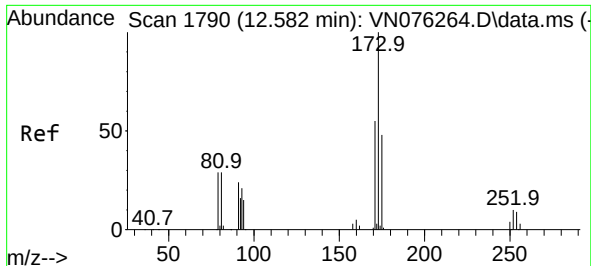
Tgt Ion: 95 Resp: 209359
Ion Ratio Lower Upper
95 100
174 83.1 0.0 174.6
176 80.0 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.005 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

Tgt Ion: 117 Resp: 518813
Ion Ratio Lower Upper
117 100
82 55.6 42.2 63.2
119 32.7 26.9 40.3

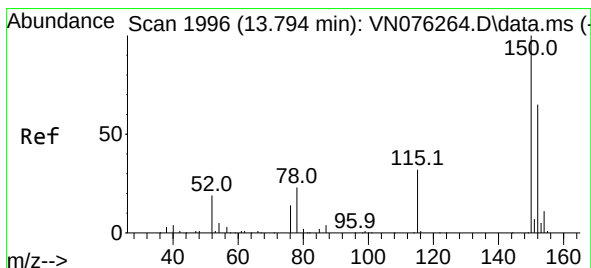
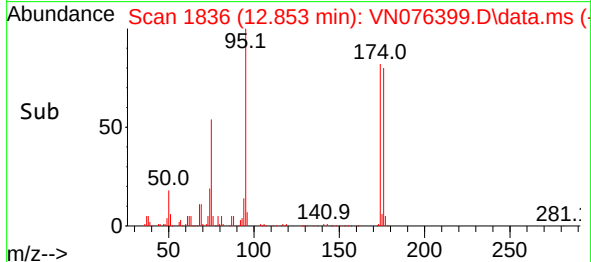
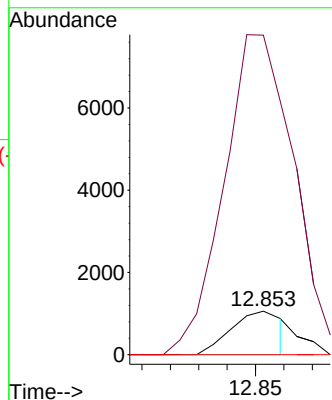
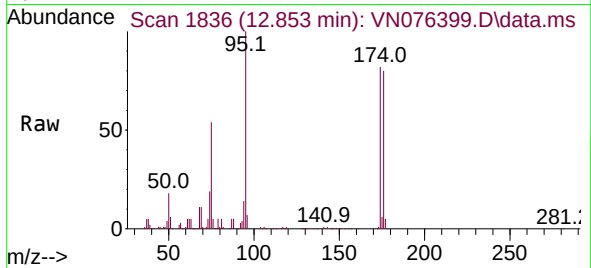




#71
Bromoform
Concen: 0.449 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.271 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

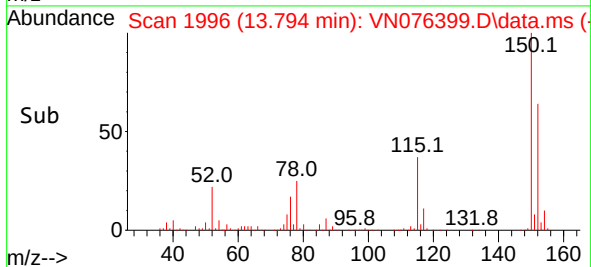
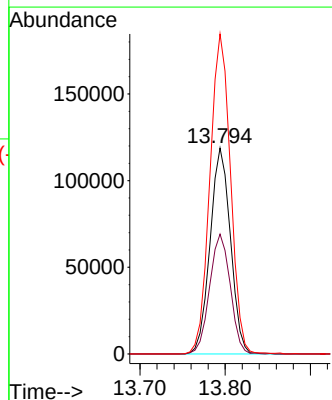
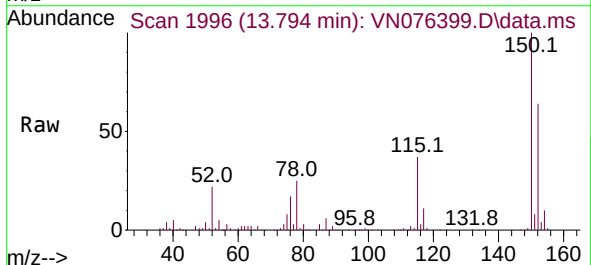
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-403-405

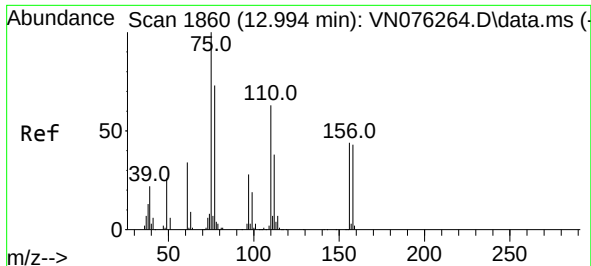
Tgt Ion:173 Resp: 1322
Ion Ratio Lower Upper
173 100
175 822.5 24.1 72.4#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

Tgt Ion:152 Resp: 197489
Ion Ratio Lower Upper
152 100
115 58.9 29.6 88.9
150 156.9 0.0 351.4

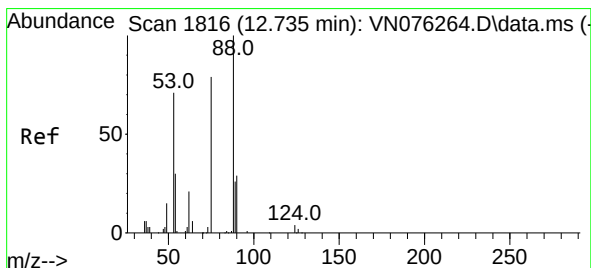
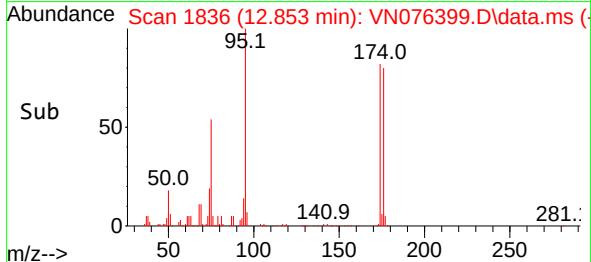
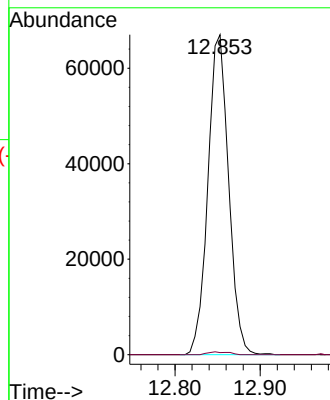
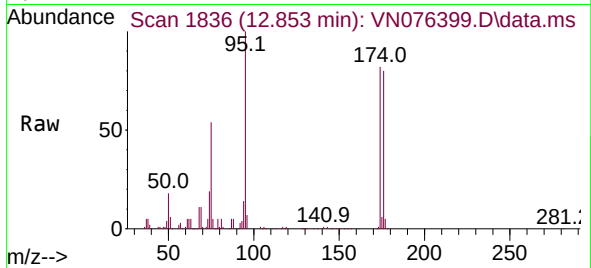




#76
1,2,3-Trichloropropane
Concen: 31.076 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

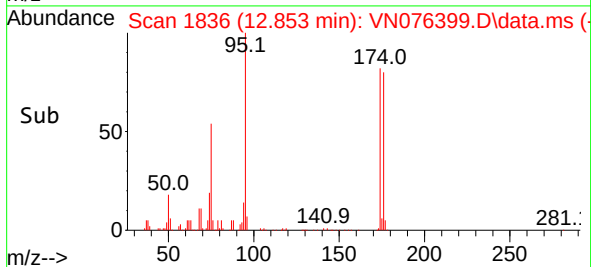
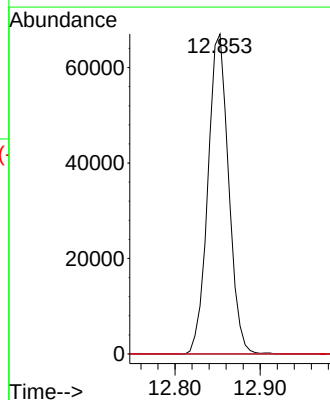
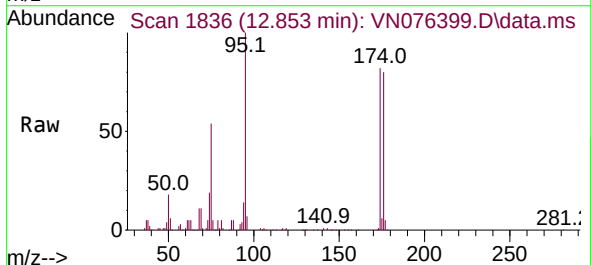
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-403-405

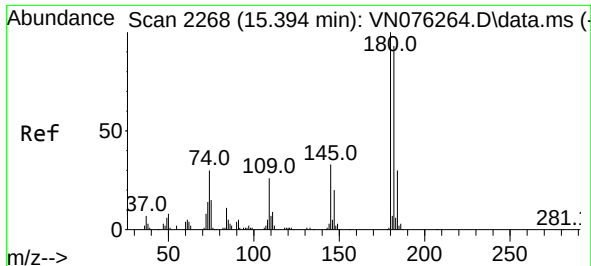
Tgt Ion: 75 Resp: 113096
Ion Ratio Lower Upper
75 100
77 0.9 75.2 225.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 95.282 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076399.D
Acq: 25 Jan 2023 14:10

Tgt Ion: 75 Resp: 113096
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#





#93

1,2,4-Trichlorobenzene

Concen: 1.325 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN076399.D

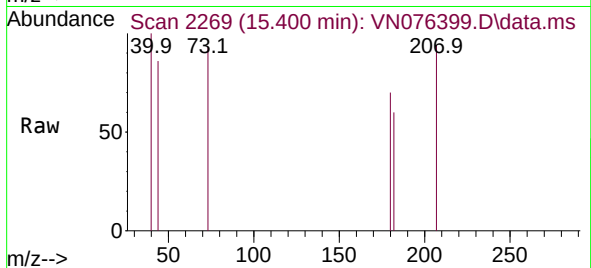
Acq: 25 Jan 2023 14:10

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-403-405



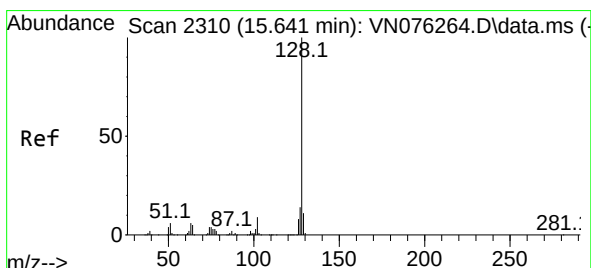
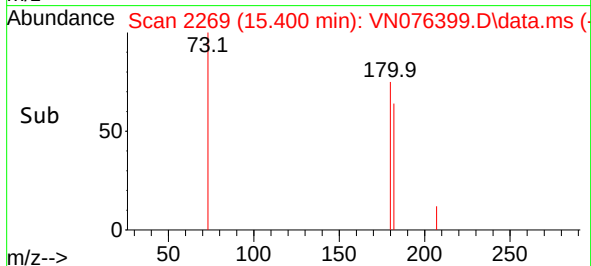
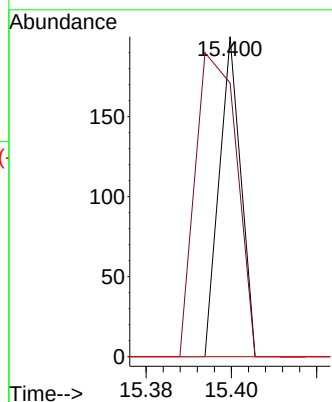
Tgt Ion:180 Resp: 71

Ion Ratio Lower Upper

180 100

182 178.9 47.0 141.2#

145 0.0 15.2 45.5#



#95

Naphthalene

Concen: 1.955 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. -0.000 min

Lab File: VN076399.D

Acq: 25 Jan 2023 14:10

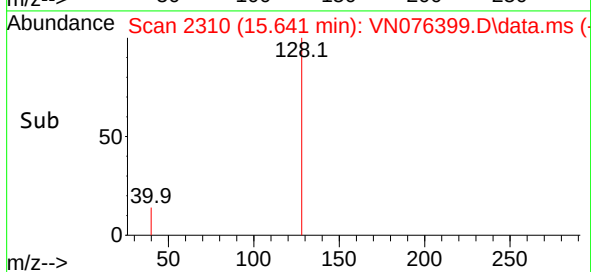
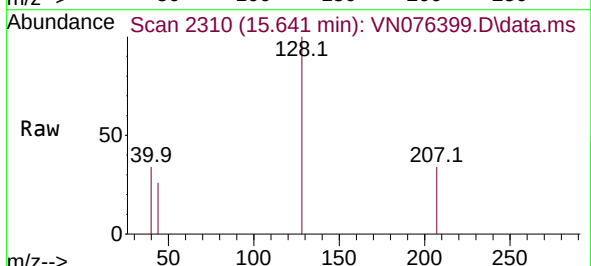
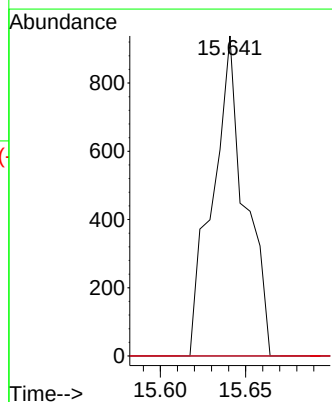
Tgt Ion:128 Resp: 1238

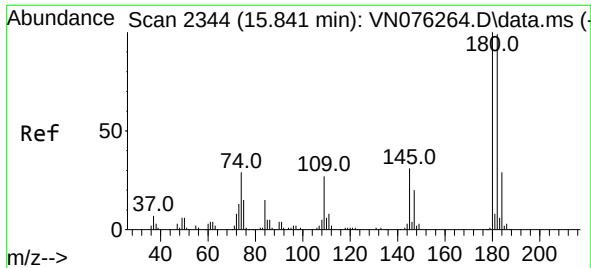
Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

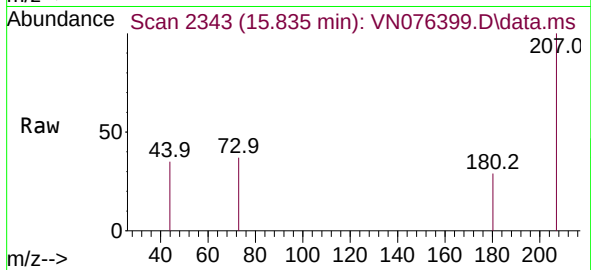
129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.170 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN076399.D
 Acq: 25 Jan 2023 14:10

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW10-GW-403-405



Tgt Ion:180 Resp: 56
 Ion Ratio Lower Upper
 180 100
 182 300.0 47.5 142.5#
 145 0.0 15.9 47.6#

