

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076902.D
 Acq On : 09 Mar 2023 14:52
 Operator : JC\MD
 Sample : 01774-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(MAR)

Quant Time: Mar 10 01:32:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

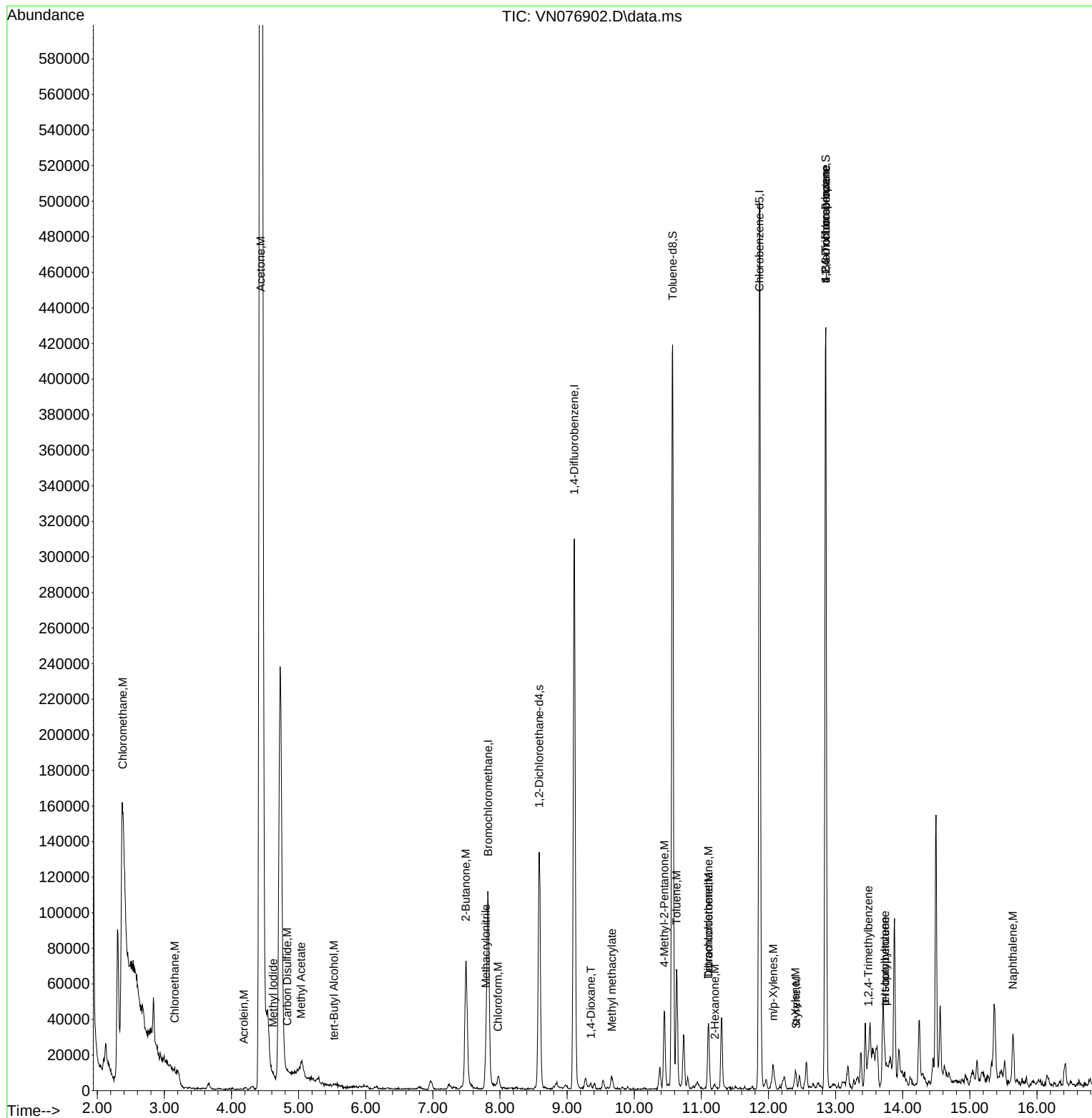
Internal Standards						
1) Bromochloromethane	7.825	128	38144	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	261142	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.866	117	292600	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	112542	32.100	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.000%
60) 4-Bromofluorobenzene	12.854	95	155130	28.013	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.367%
63) Toluene-d8	10.572	98	295913	28.753	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.833%
Target Compounds						
						Qvalue
3) Chloromethane	2.378	50	5975	1.339	ug/l	# 63
6) Chloroethane	3.154	64	1864	0.780	ug/l	# 70
11) Methyl Iodide	4.619	142	2742	0.545	ug/l	86
12) Methyl Acetate	5.037	43	6225	0.906	ug/l	# 77
13) Acrolein	4.184	56	217	0.214	ug/l	# 66
15) Acetone	4.437	58	972704	1578.473	ug/l	88
16) Carbon Disulfide	4.831	76	2709	0.234	ug/l	100
23) tert-Butyl Alcohol	5.525	59	374	0.569	ug/l	# 100
25) Chloroform	7.972	83	6695	0.774	ug/l	# 78
30) 2-Butanone	7.489	43	115093	41.013	ug/l	95
35) Methacrylonitrile	7.789	41	2498	0.791	ug/l	# 53
45) 1,4-Dioxane	9.354	88	184	2.383	ug/l	# 41
46) Methyl methacrylate	9.666	41	1067	0.239	ug/l	# 45
53) Dibromochloromethane	11.107	129	8817	1.911	ug/l	# 10
58) 4-Methyl-2-Pentanone	10.448	43	29028	4.911	ug/l	# 55
59) 2-Hexanone	11.201	43	2141	0.510	ug/l	# 70
61) Tetrachloroethene	11.107	164	7873	1.704	ug/l	95
62) Toluene	10.630	91	49463	2.453	ug/l	99
67) m/p-Xylenes	12.072	106	3524	0.425	ug/l	84
68) o-Xylene	12.401	106	1843	0.228	ug/l	93
69) Styrene	12.413	104	3117	0.237	ug/l	# 78
72) 1,2,3-Trichloropropane	12.854	75	83513	14.335	ug/l	1
77) t-1,4-Dichloro-2-butene	12.854	75	83513	46.960	ug/l	# 9
79) tert-butylbenzene	13.736	119	10287	0.675	ug/l	56
80) 1,2,4-Trimethylbenzene	13.489	105	9647	0.538	ug/l	72
82) p-Isopropyltoluene	13.736	119	10287	0.584	ug/l	90
91) Naphthalene	15.642	128	24843	1.674	ug/l	# 91

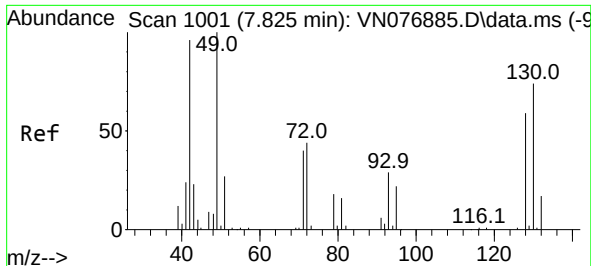
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 09 04:16:54 2023
Response via : Initial Calibration

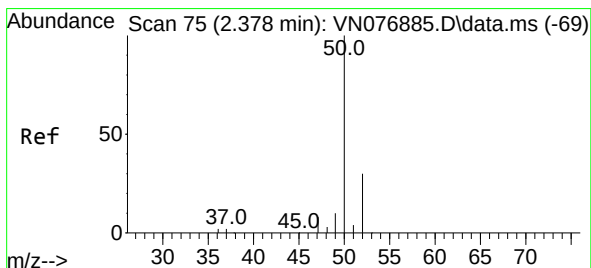
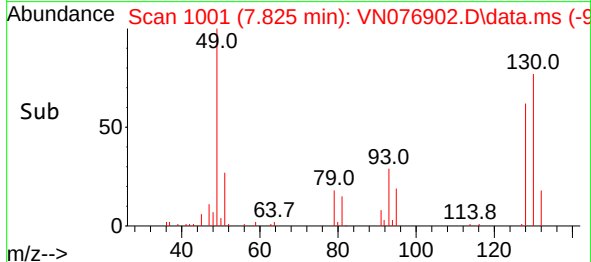
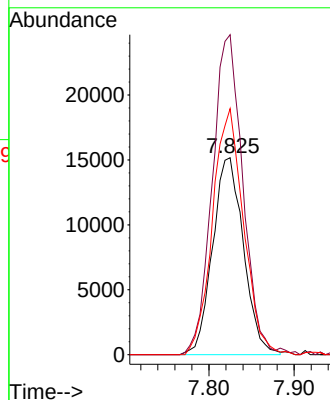
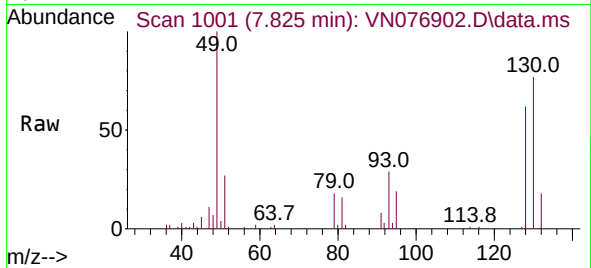




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.825 min Scan# 1001
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

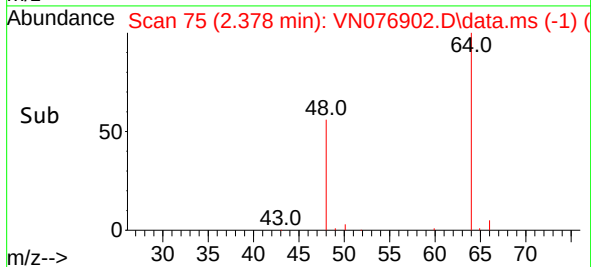
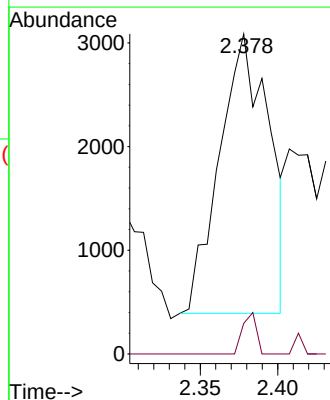
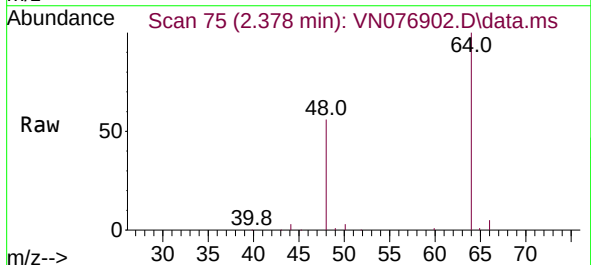
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

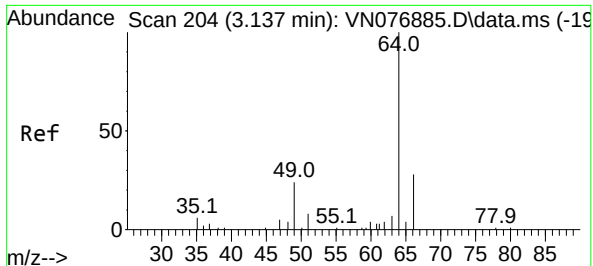
Tgt Ion:128 Resp: 38144
Ion Ratio Lower Upper
128 100
49 160.0 0.0 461.8
130 125.4 0.0 295.3



#3
Chloromethane
Concen: 1.339 ug/l
RT: 2.378 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 50 Resp: 5975
Ion Ratio Lower Upper
50 100
52 10.9 25.3 37.9#

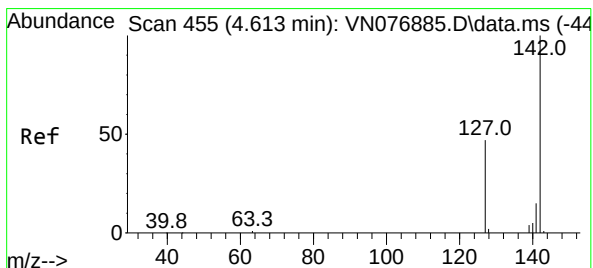
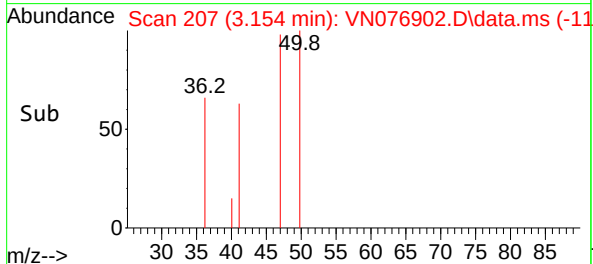
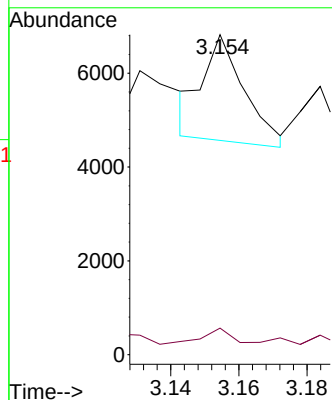
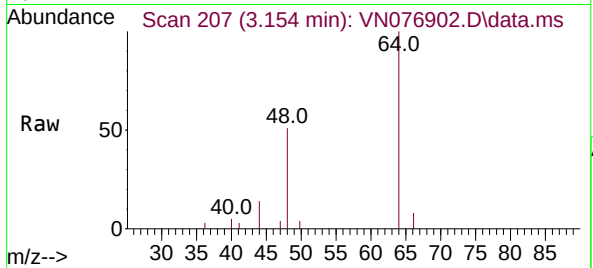




#6
Chloroethane
Concen: 0.780 ug/l
RT: 3.154 min Scan# 20
Delta R.T. 0.017 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

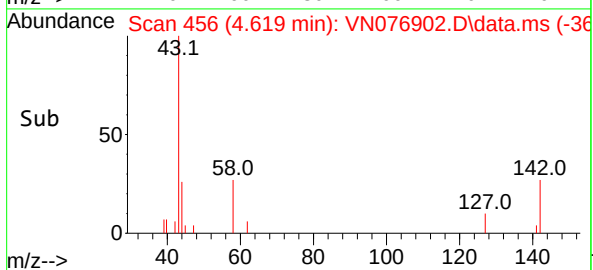
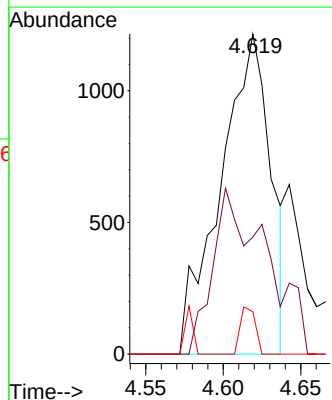
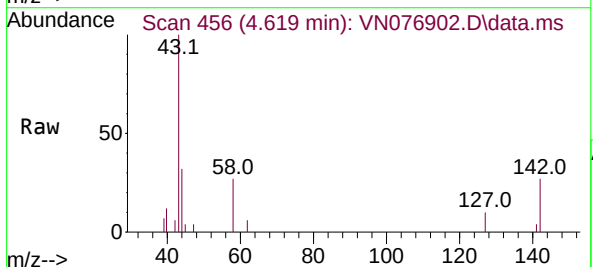
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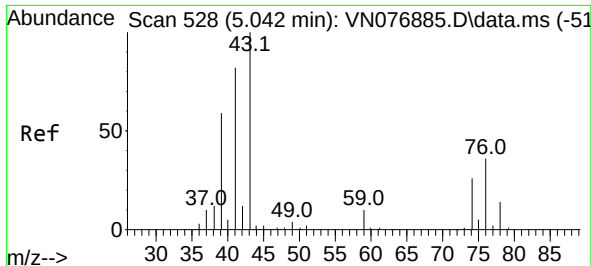
Tgt Ion: 64 Resp: 1864
Ion Ratio Lower Upper
64 100
66 13.4 23.8 35.6#



#11
Methyl Iodide
Concen: 0.545 ug/l
RT: 4.619 min Scan# 456
Delta R.T. 0.012 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion:142 Resp: 2742
Ion Ratio Lower Upper
142 100
127 38.0 25.0 75.0
141 17.2 8.0 24.0

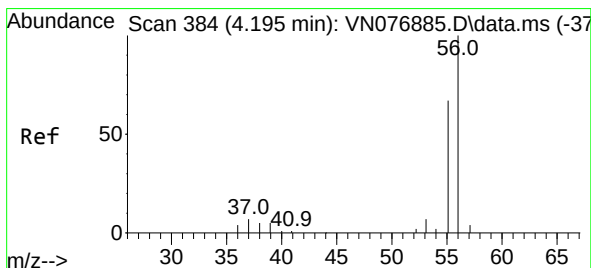
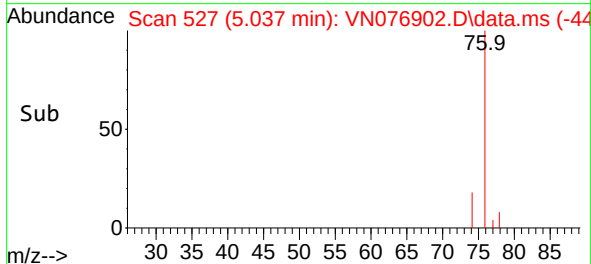
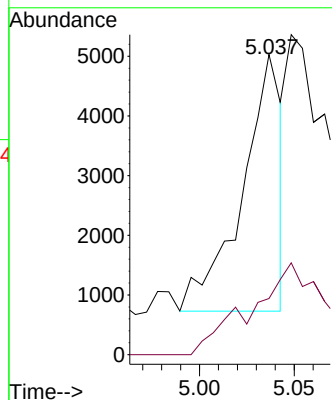
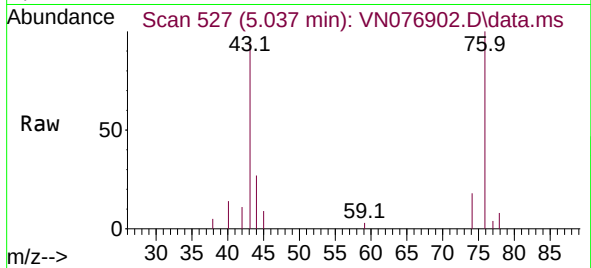




#12
Methyl Acetate
Concen: 0.906 ug/l
RT: 5.037 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

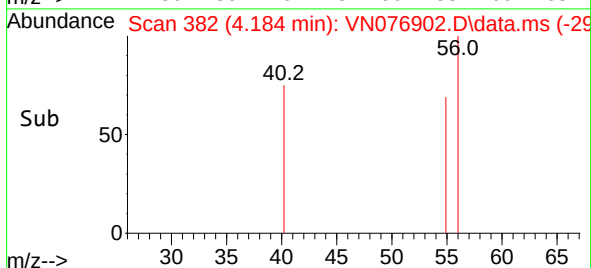
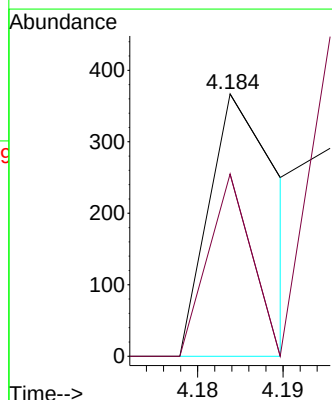
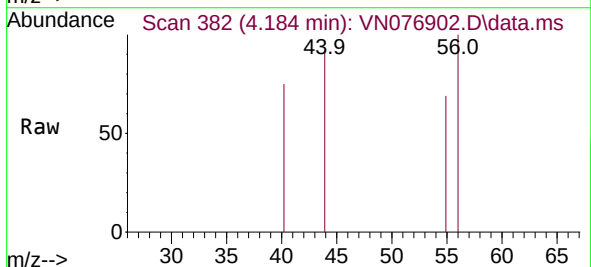
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

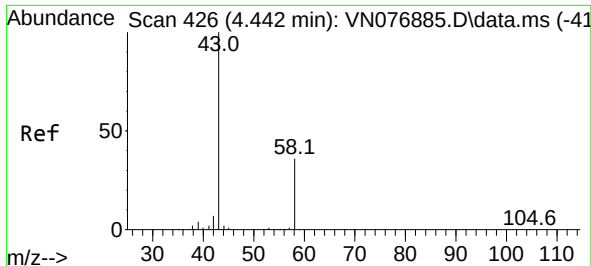
Tgt Ion: 43 Resp: 6225
Ion Ratio Lower Upper
43 100
74 12.3 19.0 28.4#



#13
Acrolein
Concen: 0.214 ug/l
RT: 4.184 min Scan# 382
Delta R.T. -0.006 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 56 Resp: 217
Ion Ratio Lower Upper
56 100
55 41.5 55.0 82.4#

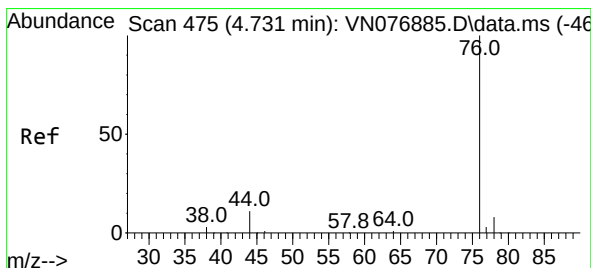
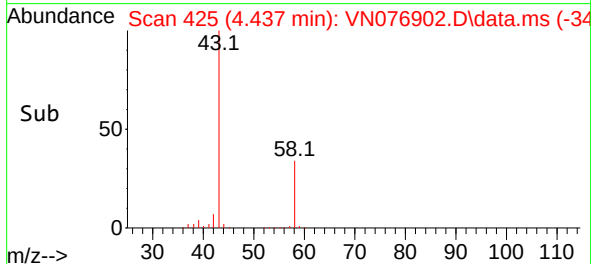
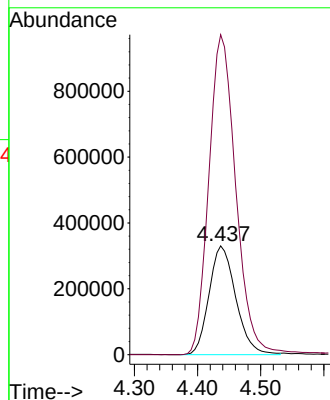
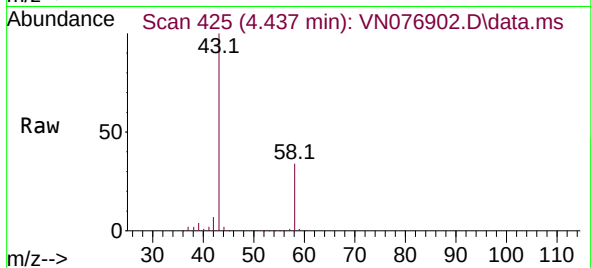




#15
Acetone
Concen: 1578.473 ug/l
RT: 4.437 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

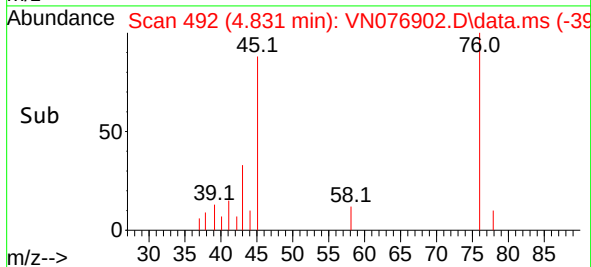
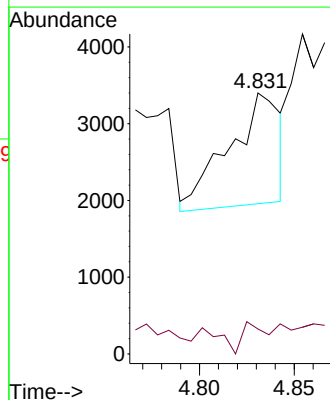
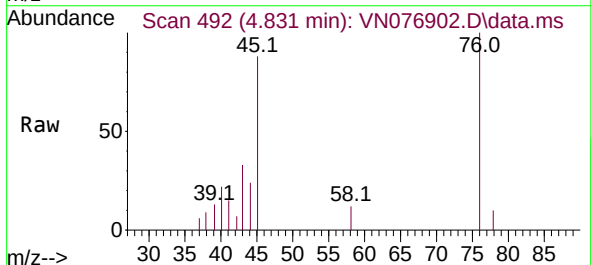
Instrument :
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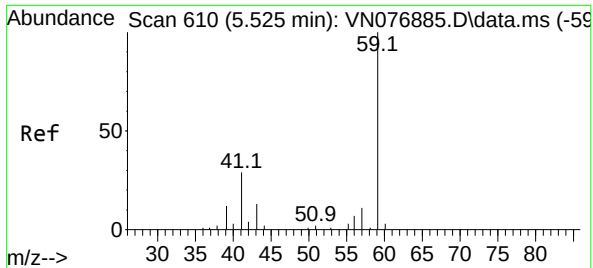
Tgt Ion: 58 Resp: 972704
Ion Ratio Lower Upper
58 100
43 293.9 255.4 383.0



#16
Carbon Disulfide
Concen: 0.234 ug/l
RT: 4.831 min Scan# 492
Delta R.T. 0.100 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 76 Resp: 2709
Ion Ratio Lower Upper
76 100
78 8.4 6.6 9.8

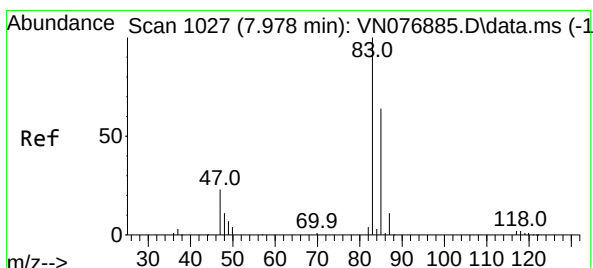
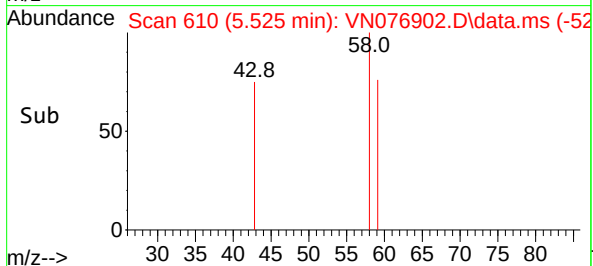
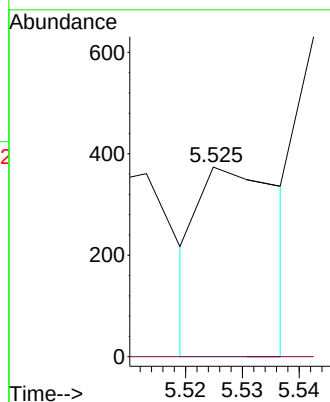
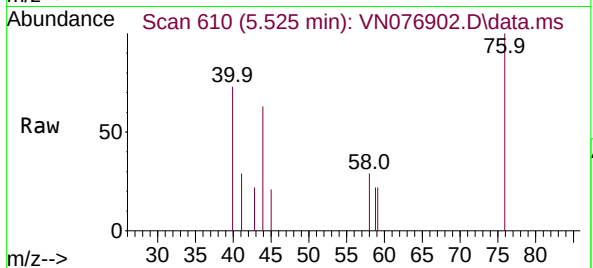




#23
tert-Butyl Alcohol
Concen: 0.569 ug/l
RT: 5.525 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

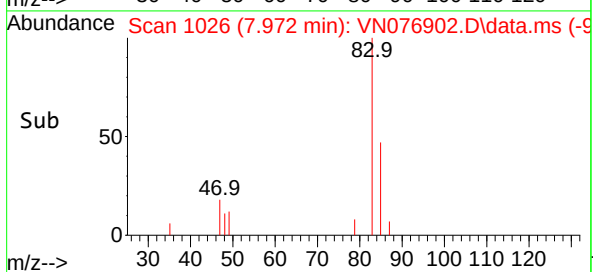
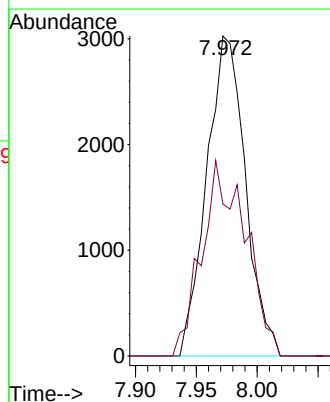
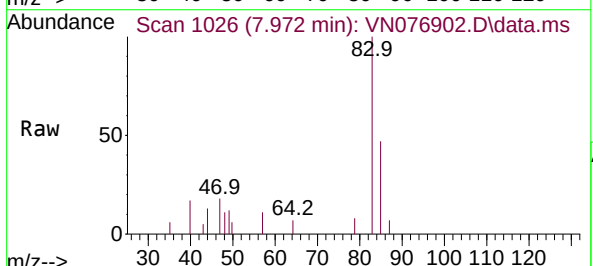
Instrument :
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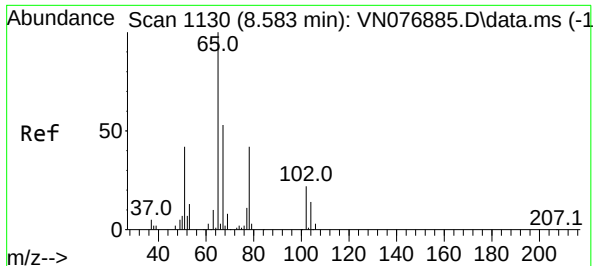
Tgt Ion: 59 Resp: 374
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 0.774 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 83 Resp: 6695
Ion Ratio Lower Upper
83 100
85 47.5 51.8 77.6#





#27

1,2-Dichloroethane-d4

Concen: 32.100 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN076902.D

Acq: 09 Mar 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

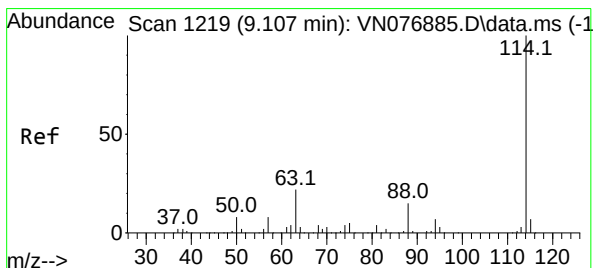
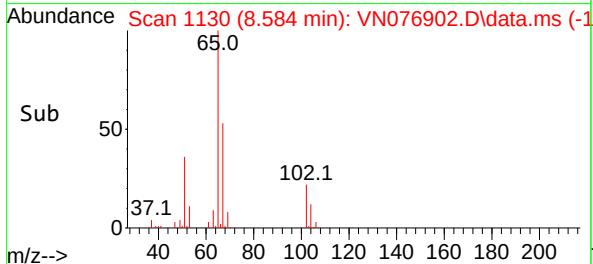
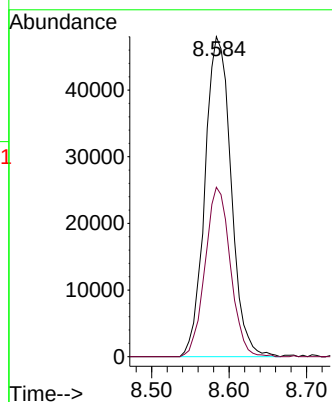
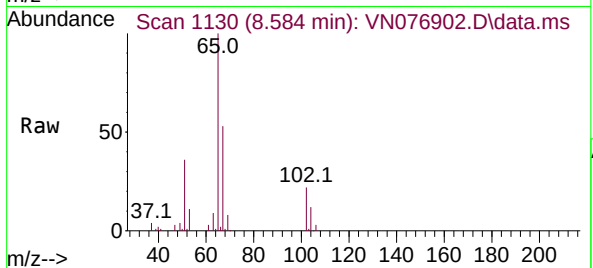
002-35TH-AVE(MAR)

Tgt Ion: 65 Resp: 112542

Ion Ratio Lower Upper

65 100

67 51.1 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN076902.D

Acq: 09 Mar 2023 14:52

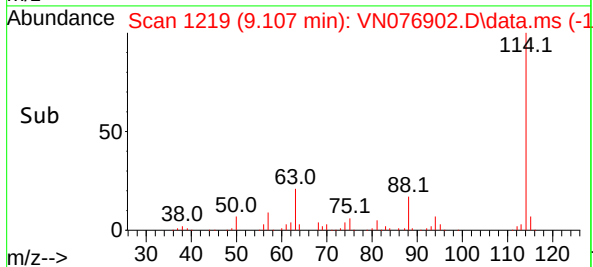
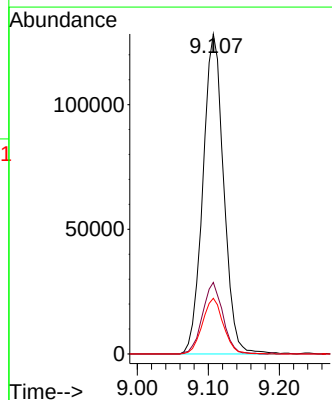
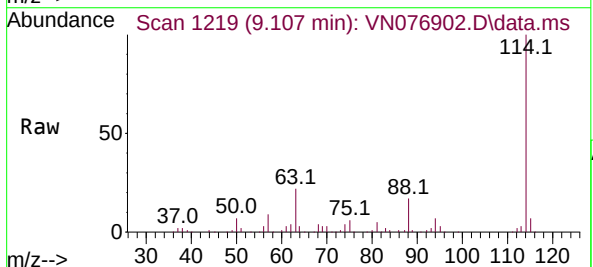
Tgt Ion: 114 Resp: 261142

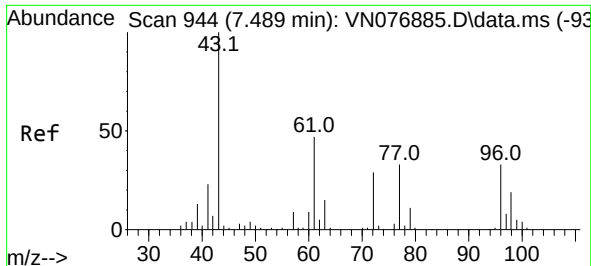
Ion Ratio Lower Upper

114 100

63 22.0 17.0 25.4

88 17.5 11.6 17.4#

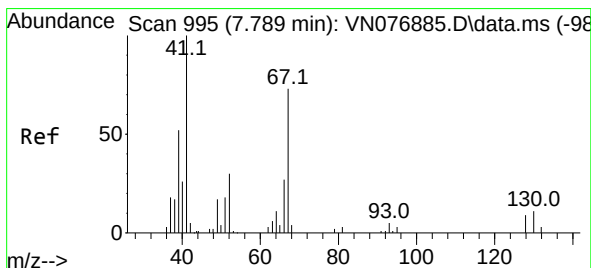
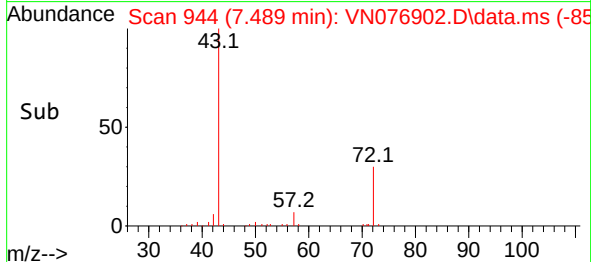
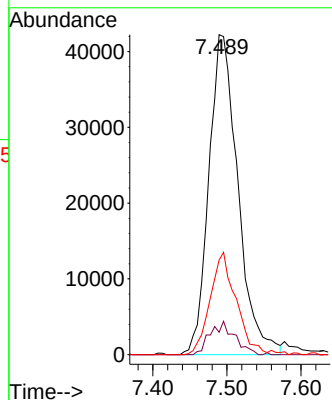
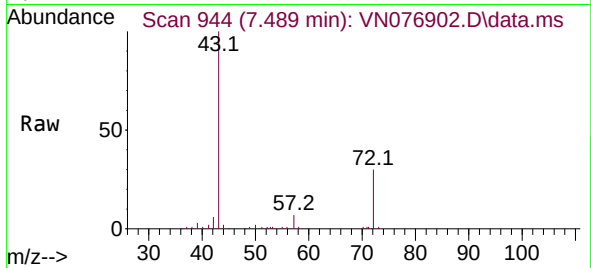




#30
2-Butanone
Concen: 41.013 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

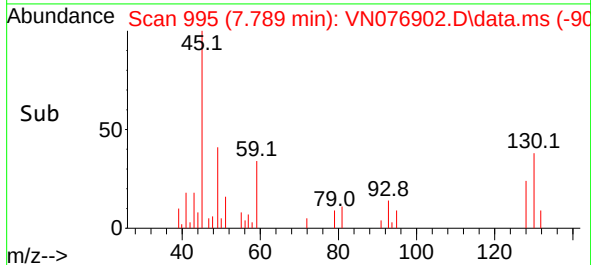
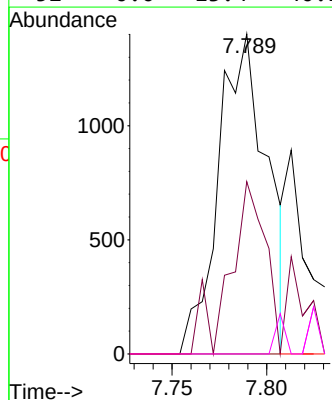
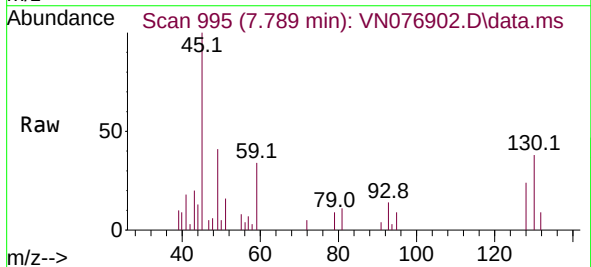
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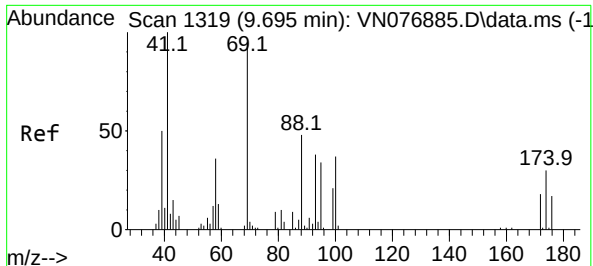
Tgt Ion: 43 Resp: 115093
Ion Ratio Lower Upper
43 100
57 6.1 6.1 9.1
72 27.8 20.2 30.4



#35
Methacrylonitrile
Concen: 0.791 ug/l
RT: 7.789 min Scan# 995
Delta R.T. 0.005 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 41 Resp: 2498
Ion Ratio Lower Upper
41 100
39 53.9 26.6 79.7
67 0.0 32.3 96.9#
52 0.0 13.4 40.1#

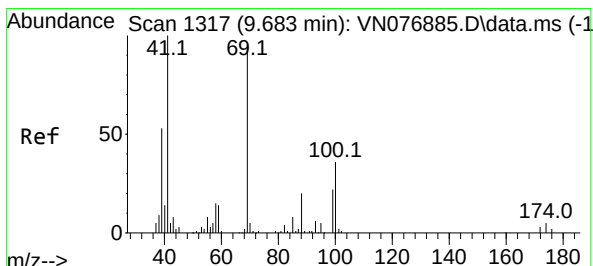
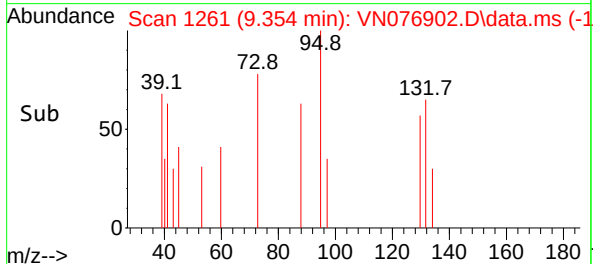
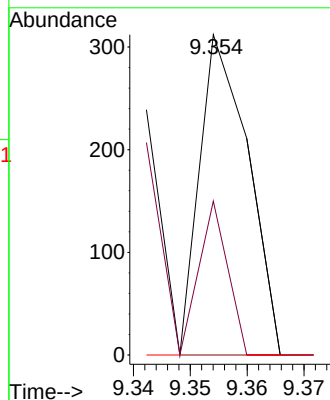
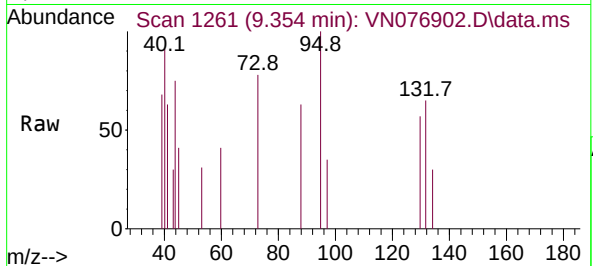




#45
1,4-Dioxane
Concen: 2.383 ug/l
RT: 9.354 min Scan# 1314
Delta R.T. -0.341 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

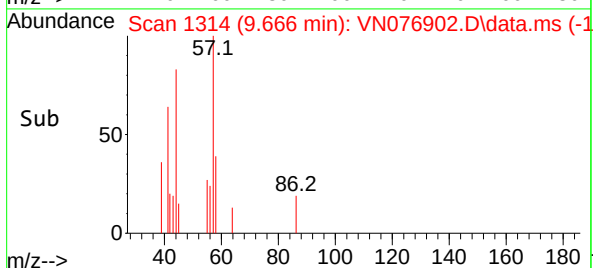
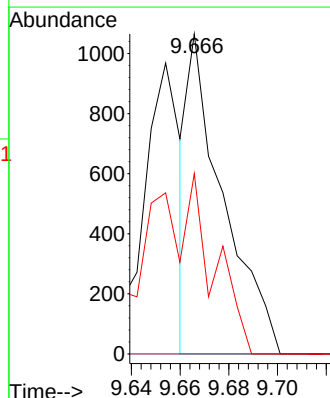
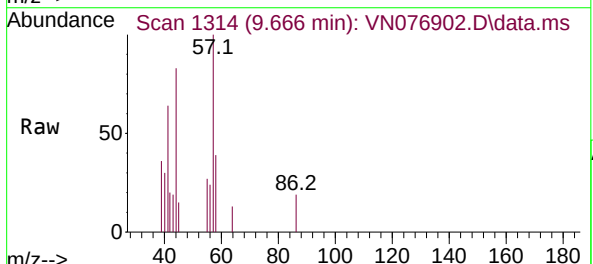
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

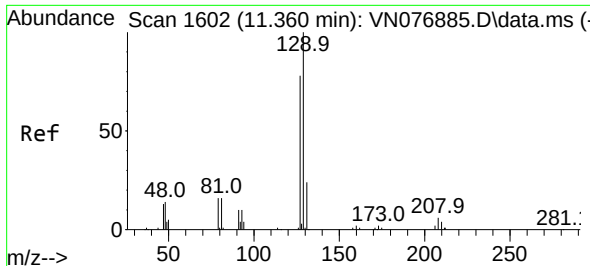
Tgt Ion: 88 Resp: 184
Ion Ratio Lower Upper
88 100
43 28.8 26.0 39.0
58 0.0 54.3 81.5#



#46
Methyl methacrylate
Concen: 0.239 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 41 Resp: 1067
Ion Ratio Lower Upper
41 100
69 0.0 40.6 121.7#
39 56.3 30.5 91.5

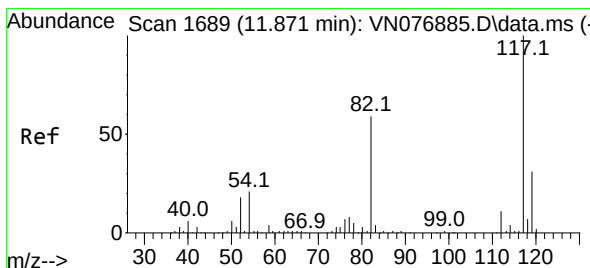
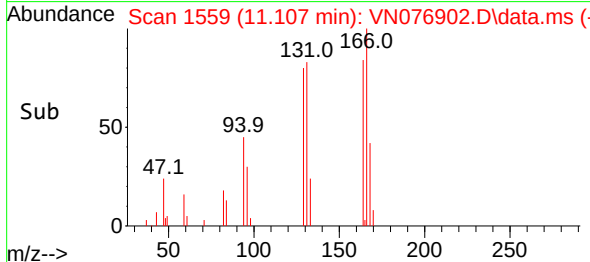
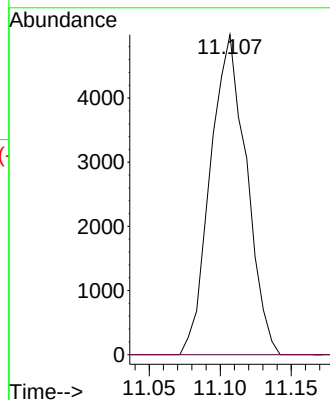
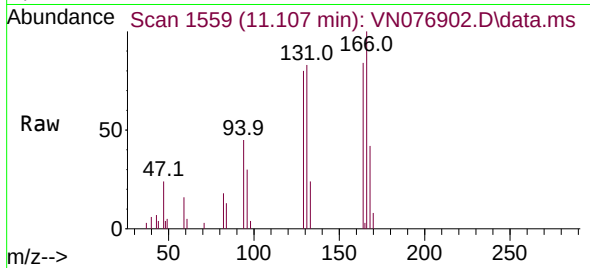




#53
Dibromochloromethane
Concen: 1.911 ug/l
RT: 11.107 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

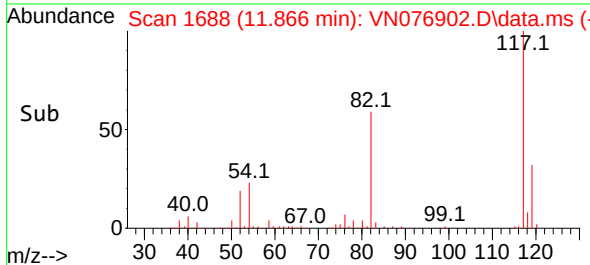
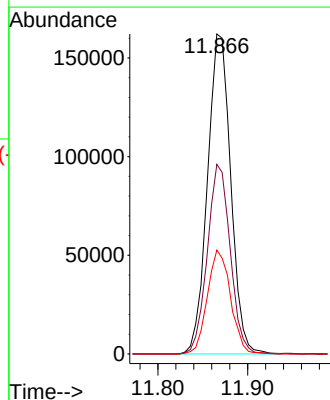
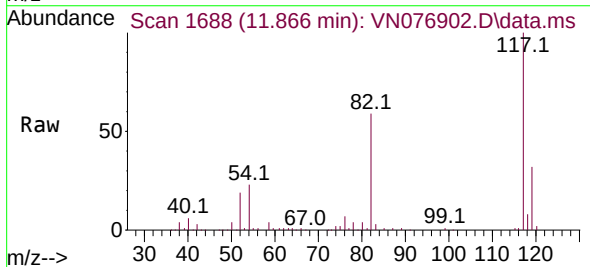
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

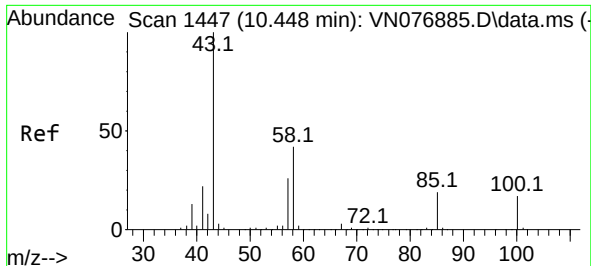
Tgt Ion:129 Resp: 8817
Ion Ratio Lower Upper
129 100
127 0.0 39.4 118.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion:117 Resp: 292600
Ion Ratio Lower Upper
117 100
82 58.3 45.4 68.0
119 32.3 26.8 40.2

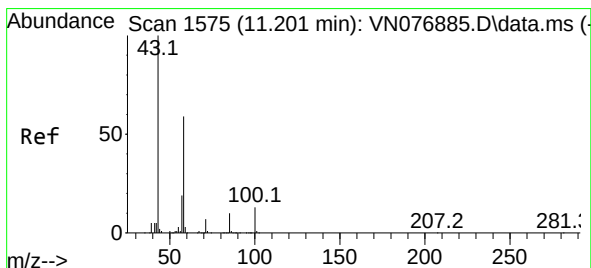
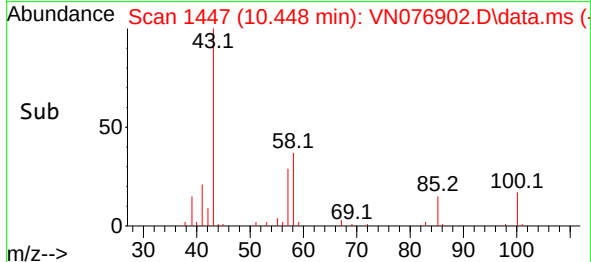
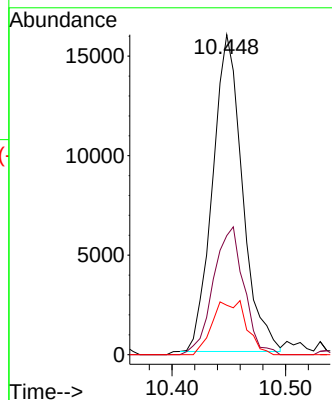
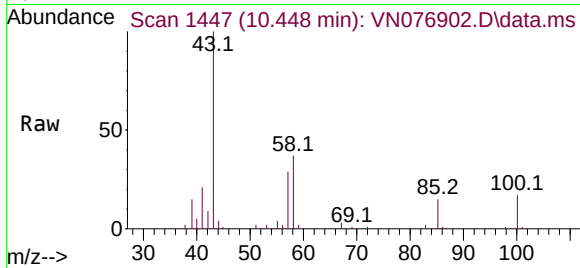




#58
4-Methyl-2-Pentanone
Concen: 4.911 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

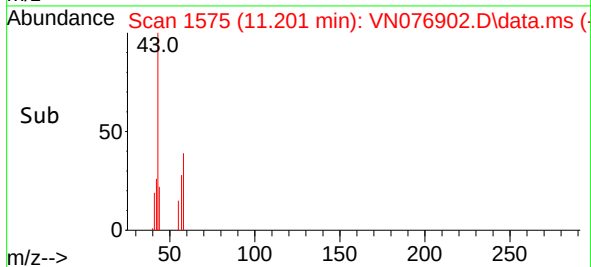
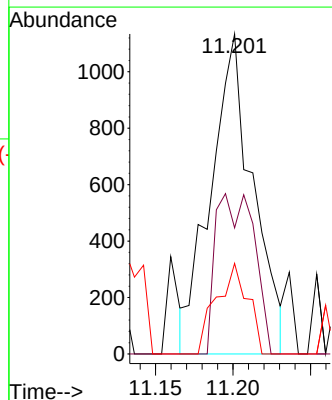
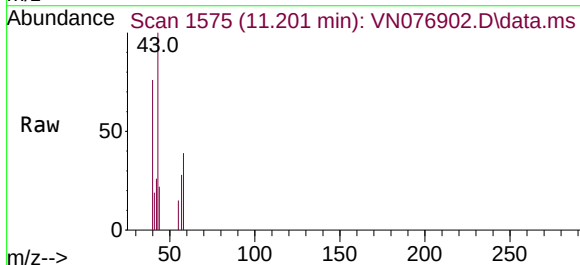
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

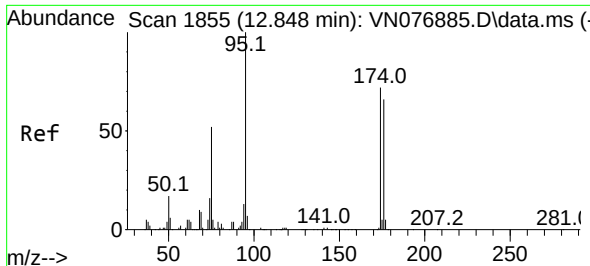
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	42.8#
85	12.7	11.8	17.8



#59
2-Hexanone
Concen: 0.510 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.2	40.6	60.8#
57	21.1	13.1	19.7#

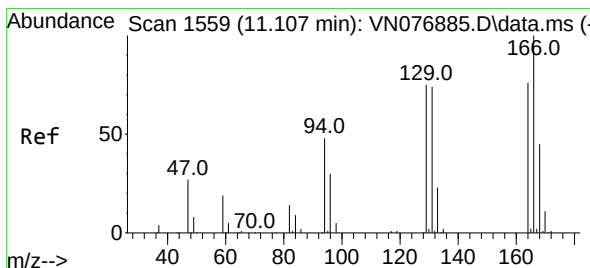
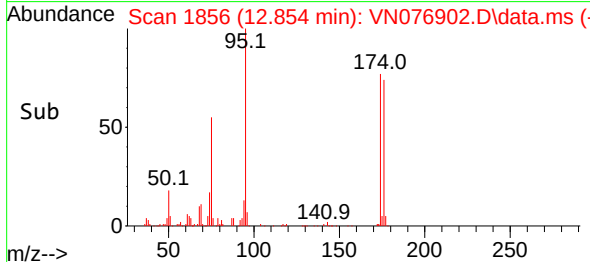
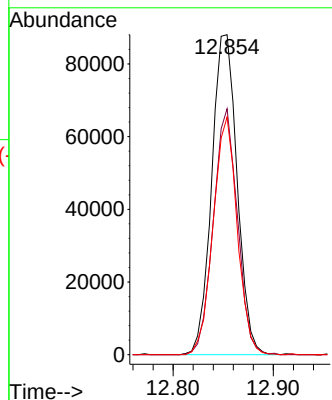
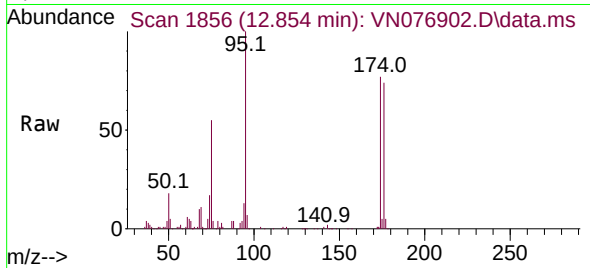




#60
4-Bromofluorobenzene
Concen: 28.013 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

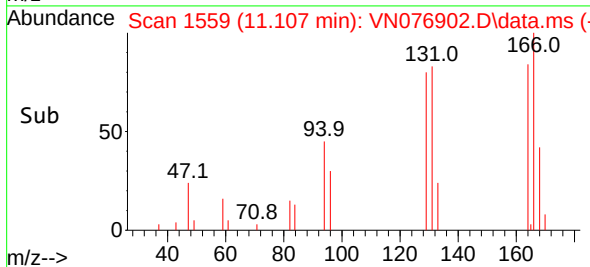
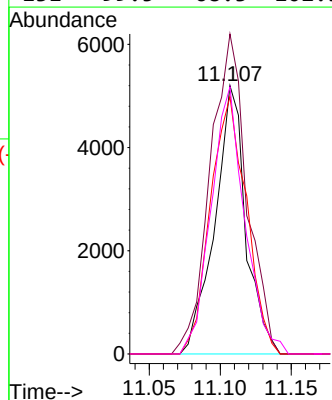
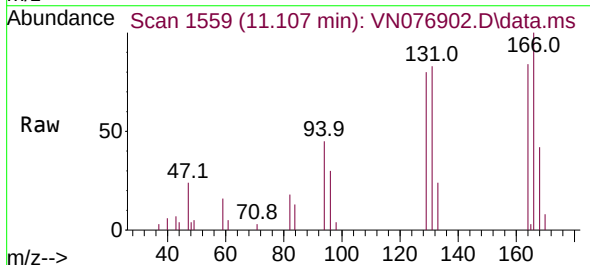
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

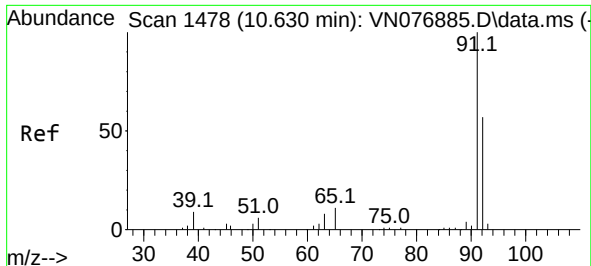
Tgt Ion: 95 Resp: 155130
Ion Ratio Lower Upper
95 100
174 72.8 64.2 96.4
176 70.2 61.4 92.0



#61
Tetrachloroethene
Concen: 1.704 ug/l
RT: 11.107 min Scan# 1559
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion:164 Resp: 7873
Ion Ratio Lower Upper
164 100
166 119.2 96.2 144.2
129 95.9 78.2 117.4
131 99.5 68.3 102.5

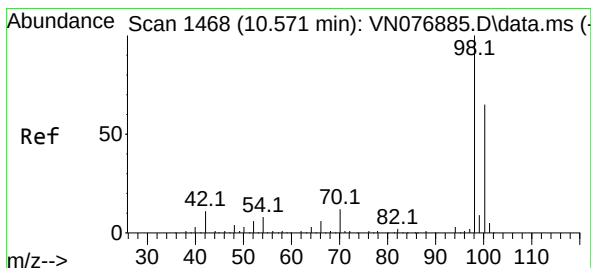
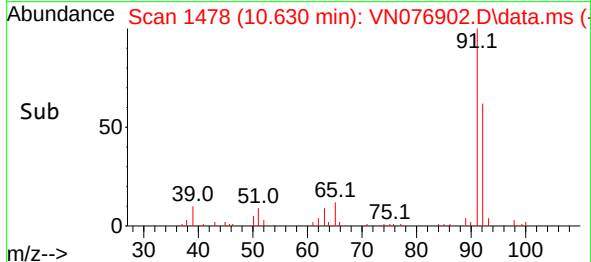
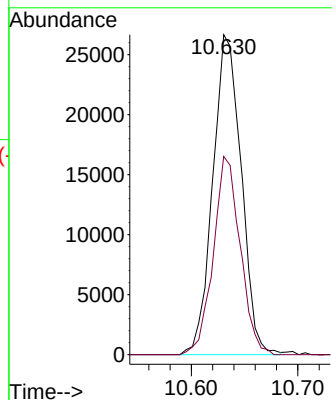
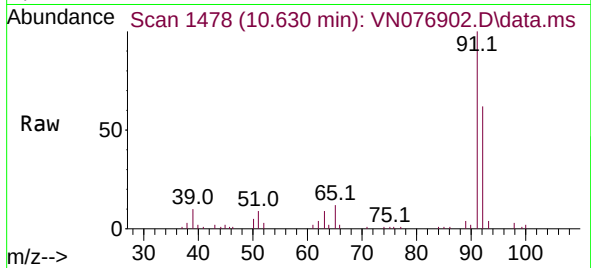




#62
Toluene
Concen: 2.453 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

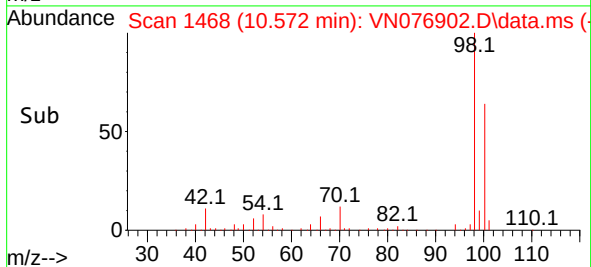
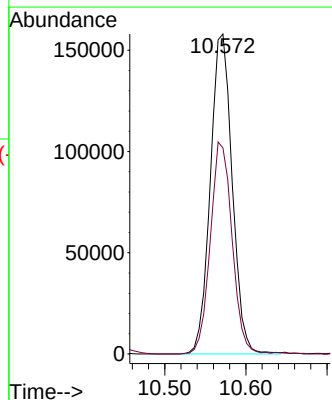
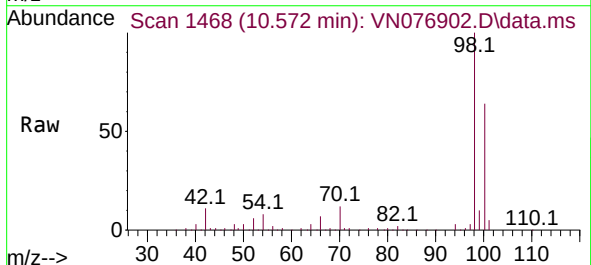
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

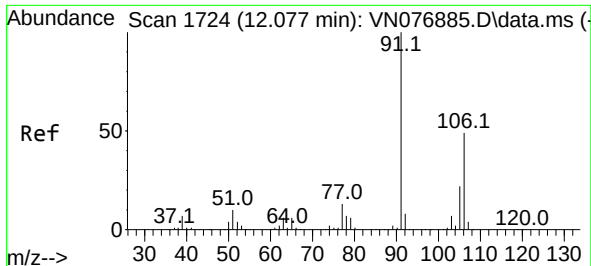
Tgt Ion: 91 Resp: 49463
Ion Ratio Lower Upper
91 100
92 58.5 46.3 69.5



#63
Toluene-d8
Concen: 28.753 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 98 Resp: 295913
Ion Ratio Lower Upper
98 100
100 65.8 53.8 80.6





#67

m/p-Xylenes

Concen: 0.425 ug/l

RT: 12.072 min Scan# 1724

Delta R.T. 0.001 min

Lab File: VN076902.D

Acq: 09 Mar 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

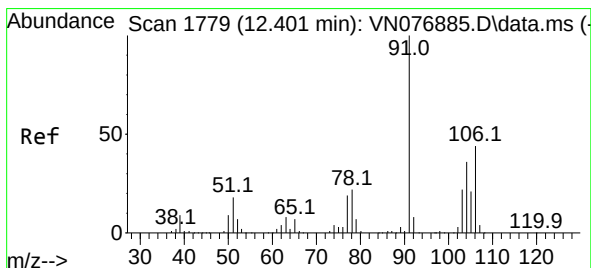
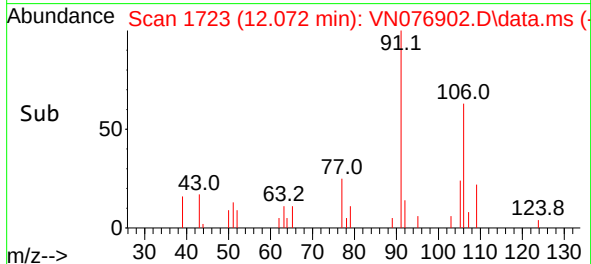
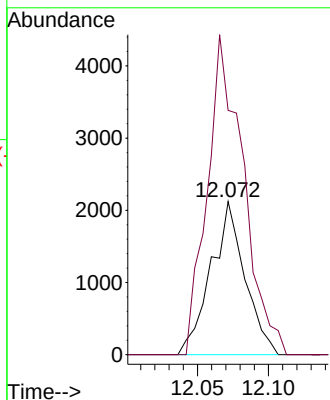
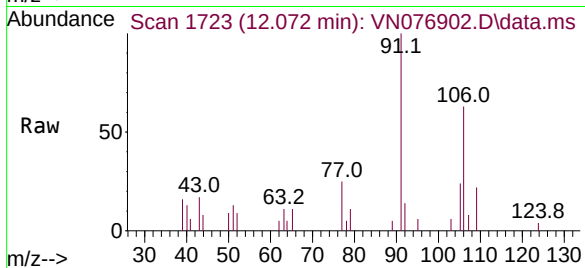
002-35TH-AVE(MAR)

Tgt Ion:106 Resp: 3524

Ion Ratio Lower Upper

106 100

91 221.1 157.4 236.2



#68

o-Xylene

Concen: 0.228 ug/l

RT: 12.401 min Scan# 1779

Delta R.T. -0.000 min

Lab File: VN076902.D

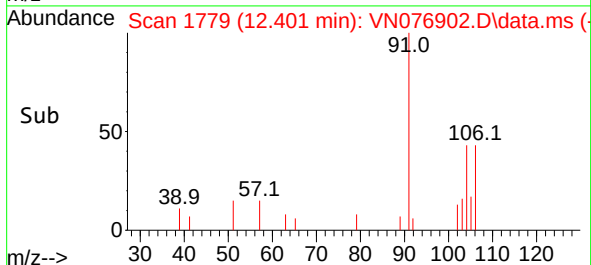
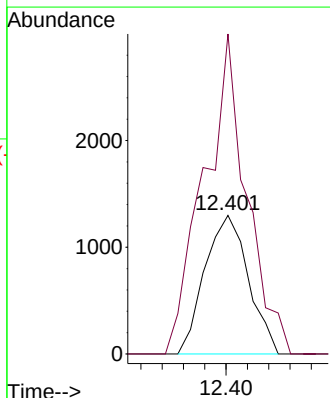
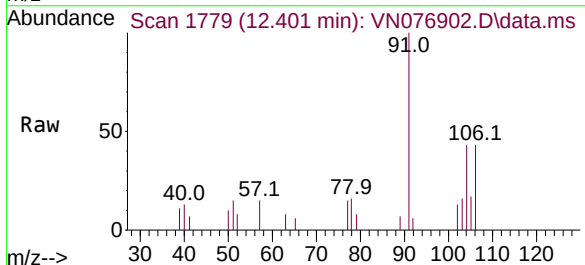
Acq: 09 Mar 2023 14:52

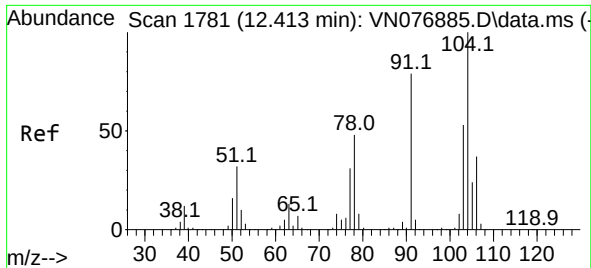
Tgt Ion:106 Resp: 1843

Ion Ratio Lower Upper

106 100

91 226.3 107.2 321.6

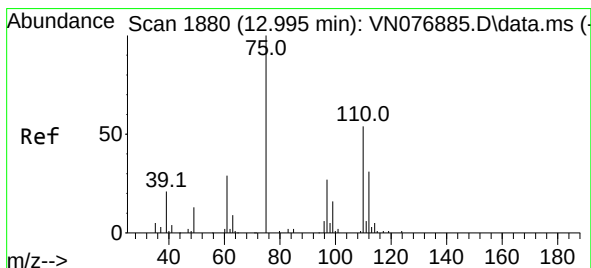
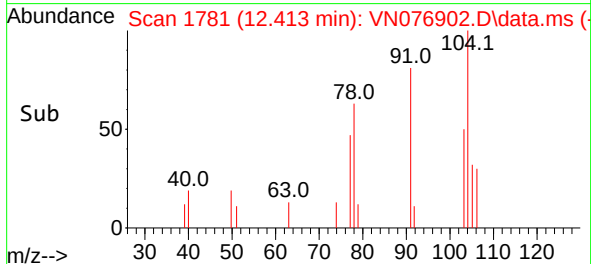
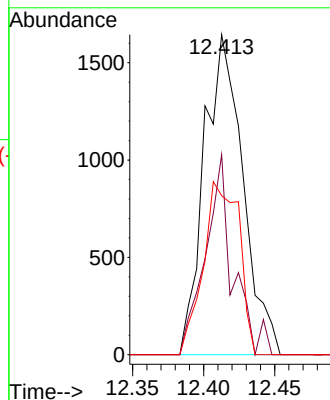
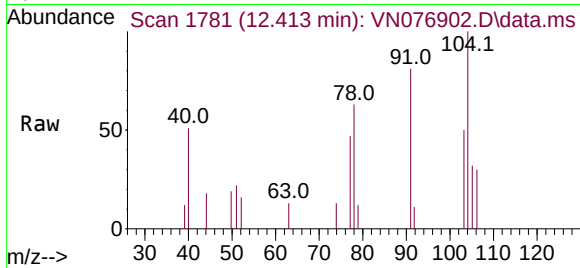




#69
Styrene
Concen: 0.237 ug/l
RT: 12.413 min Scan# 1185
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

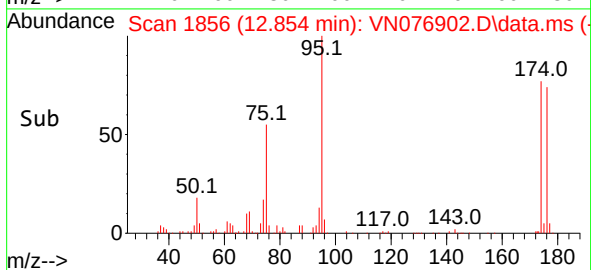
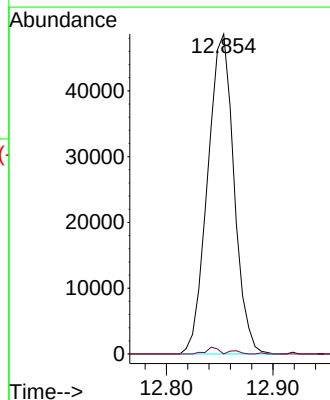
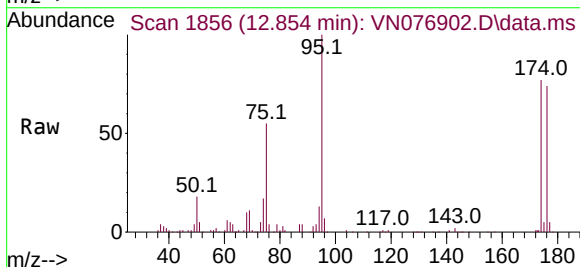
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

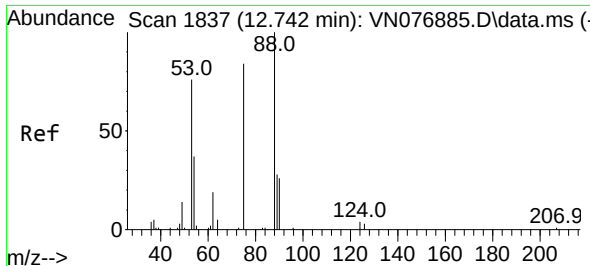
Tgt Ion:104 Resp: 3117
Ion Ratio Lower Upper
104 100
78 34.7 39.6 59.4#
103 38.6 43.9 65.9#



#72
1,2,3-Trichloropropane
Concen: 14.335 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 75 Resp: 83513
Ion Ratio Lower Upper
75 100
77 0.5 0.0 332.6

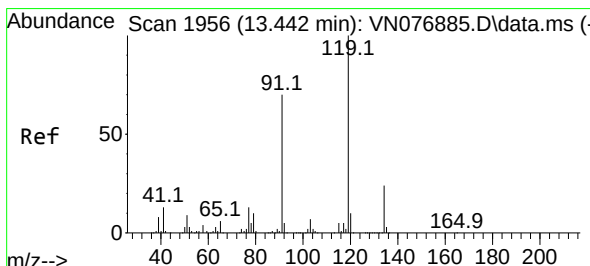
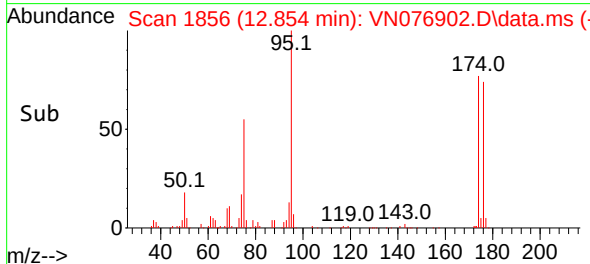
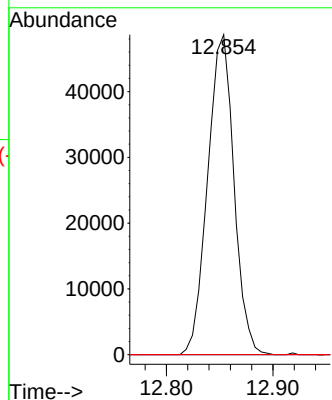
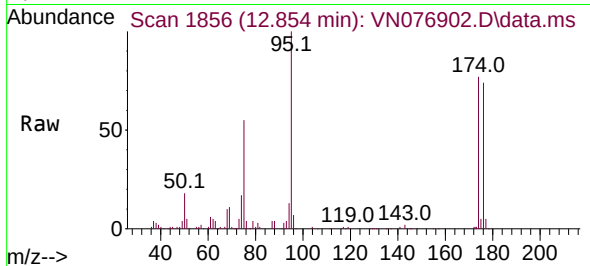




#77
t-1,4-Dichloro-2-butene
Concen: 46.960 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

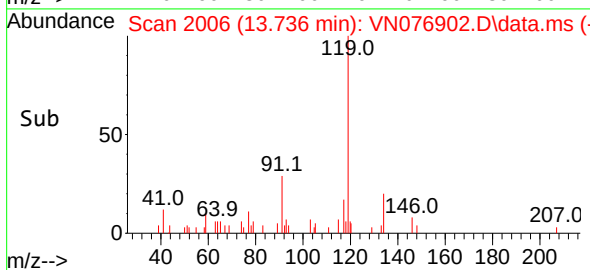
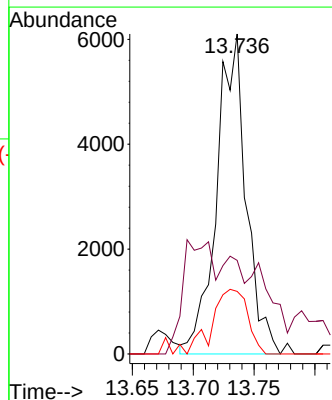
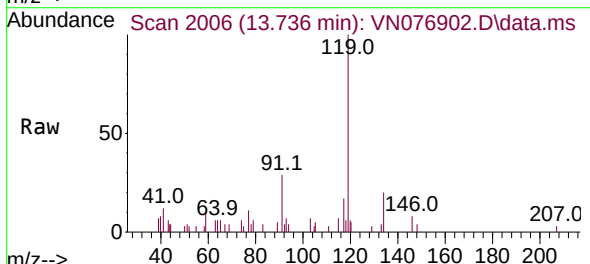
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

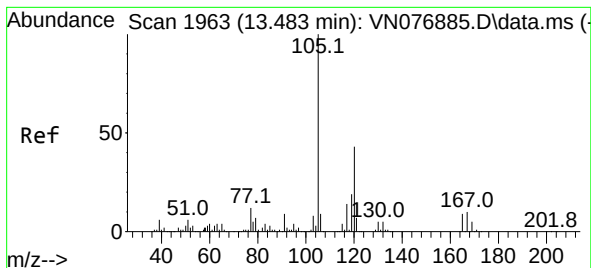
Tgt Ion: 75 Resp: 83513
Ion Ratio Lower Upper
75 100
53 0.0 50.4 151.3#
89 0.0 22.1 66.5#



#79
tert-butylbenzene
Concen: 0.675 ug/l
RT: 13.736 min Scan# 2006
Delta R.T. 0.294 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Tgt Ion: 119 Resp: 10287
Ion Ratio Lower Upper
119 100
91 19.1 0.0 129.6
134 20.9 0.0 47.8





#80

1,2,4-Trimethylbenzene

Concen: 0.538 ug/l

RT: 13.489 min Scan# 1963

Delta R.T. 0.006 min

Lab File: VN076902.D

Acq: 09 Mar 2023 14:52

Instrument :

MSVOA_N

ClientSampleId :

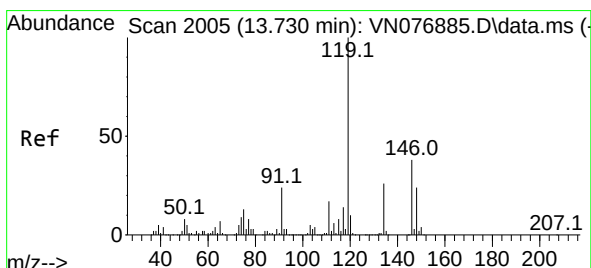
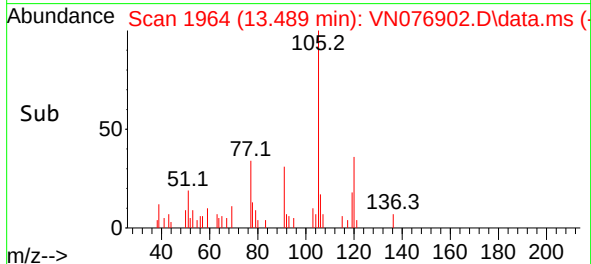
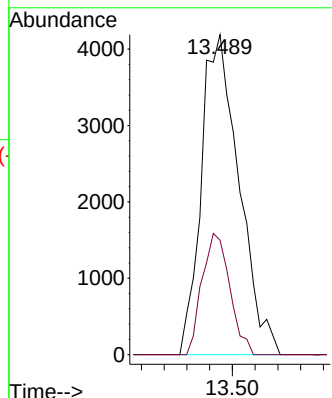
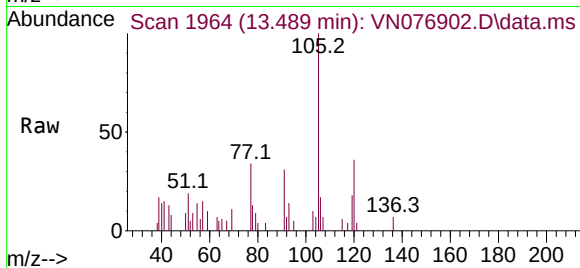
002-35TH-AVE(MAR)

Tgt Ion:105 Resp: 9647

Ion Ratio Lower Upper

105 100

120 27.9 0.0 93.2



#82

p-Isopropyltoluene

Concen: 0.584 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.006 min

Lab File: VN076902.D

Acq: 09 Mar 2023 14:52

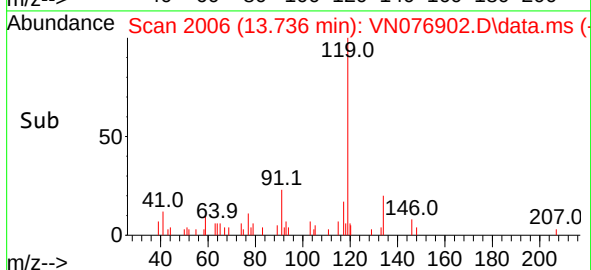
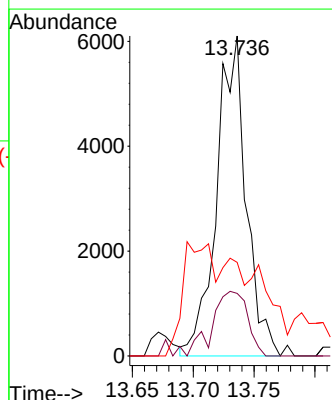
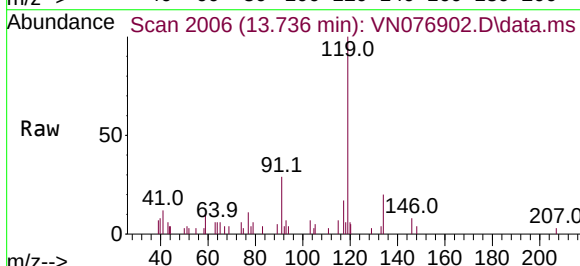
Tgt Ion:119 Resp: 10287

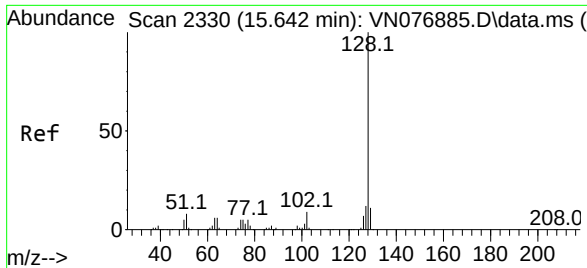
Ion Ratio Lower Upper

119 100

134 20.9 0.0 53.4

91 19.1 0.0 47.2





#91
Naphthalene
Concen: 1.674 ug/l
RT: 15.642 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076902.D
Acq: 09 Mar 2023 14:52

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(MAR)

Tgt Ion:128	Resp:	24843
Ion	Ratio	Lower Upper
128	100	
127	7.9	11.0 16.6#
129	12.2	8.9 13.3

