

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066682.D
 Acq On : 20 Apr 2021 15:16
 Operator : JC/MD
 Sample : M2032-02 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 21 10:08:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 12:52:17 2021
 Response via : Initial Calibration

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

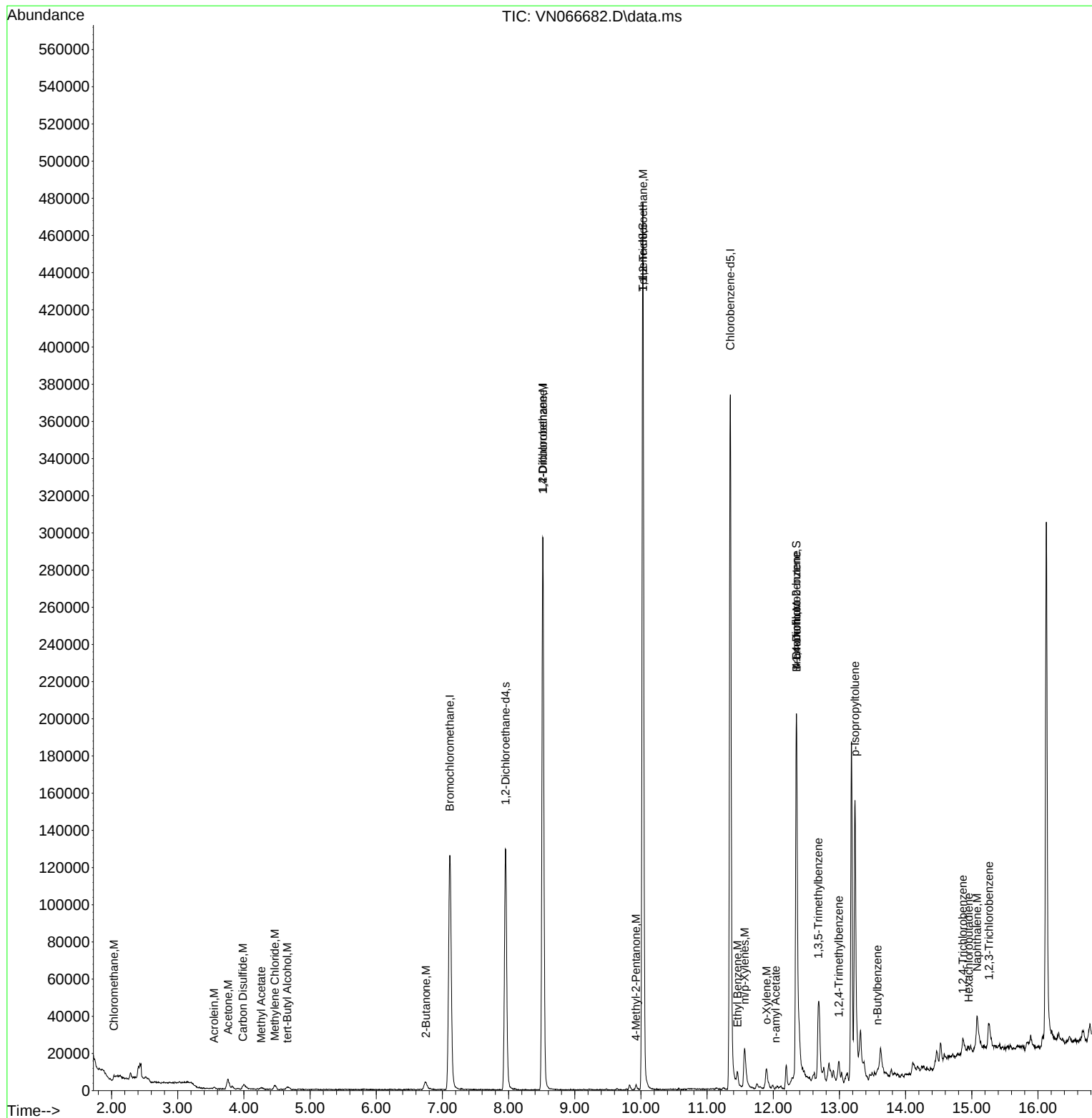
Internal Standards						
1) Bromochloromethane	7.111	128	51706	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	271801	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.351	117	237388	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.956	65	112406	30.17	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	100.57%		
60) 4-Bromofluorobenzene	12.349	95	87639	23.55	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	78.50%		
63) Toluene-d8	10.029	98	337014	30.86	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.87%		
Target Compounds						Qvalue
3) Chloromethane	2.034	50	1173	0.30	ug/l	93
12) Methyl Acetate	4.263	43	883	0.24	ug/l #	53
13) Acrolein	3.549	56	895	1.73	ug/l #	32
15) Acetone	3.761	58	2761	6.53	ug/l	70
16) Carbon Disulfide	3.984	76	1720	0.21	ug/l #	76
18) Methylene Chloride	4.467	84	766	0.22	ug/l #	78
23) tert-Butyl Alcohol	4.654	59	147	0.27	ug/l #	100
30) 2-Butanone	6.752	43	612	0.30	ug/l #	56
36) 1,2-Dichloroethane	8.516	62	8013	1.77	ug/l #	76
47) n-amyl Acetate	12.035	43	25	19.44	ug/l #	54
50) 1,1,2-Trichloroethane	10.032	97	11943	3.60	ug/l #	1
56) Bromoform	12.352	173	548	0.21	ug/l #	1
58) 4-Methyl-2-Pentanone	9.924	43	2478	0.61	ug/l #	77
66) Ethyl Benzene	11.459	91	5477	0.38	ug/l	93
67) m/p-Xylenes	11.568	106	7688	1.42	ug/l	89
68) o-Xylene	11.898	106	3981	0.76	ug/l	97
76) 1,3,5-Trimethylbenzene	12.681	105	8747	0.76	ug/l	89
77) t-1,4-Dichloro-2-butene	12.349	75	45288	36.44	ug/l #	10
80) 1,2,4-Trimethylbenzene	12.993	105	7882	0.71	ug/l	98
82) p-Isopropyltoluene	13.234	119	94821	8.59	ug/l	100
85) n-Butylbenzene	13.575	91	3673	0.40	ug/l	80
89) 1,2,4-Trichlorobenzene	14.865	180	4120	1.26	ug/l #	89
90) Hexachlorobutadiene	14.953	225	710	0.39	ug/l	65
91) Naphthalene	15.079	128	23173	2.95	ug/l	98
92) 1,2,3-Trichlorobenzene	15.259	180	6096	1.97	ug/l	90

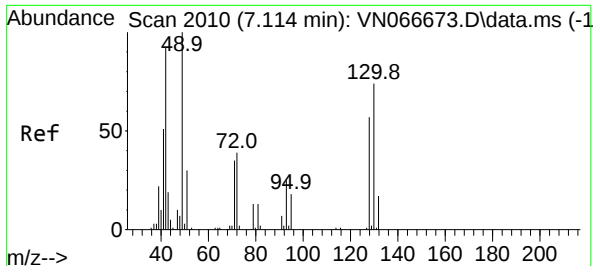
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Apr 21 10:08:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Apr 20 12:52:17 2021
Response via : Initial Calibration

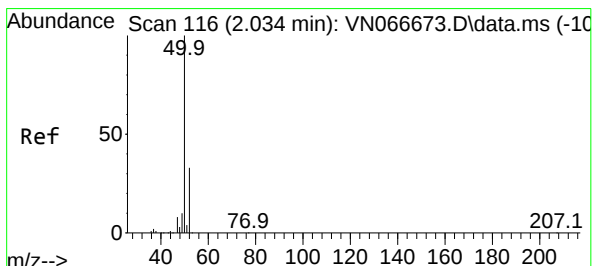
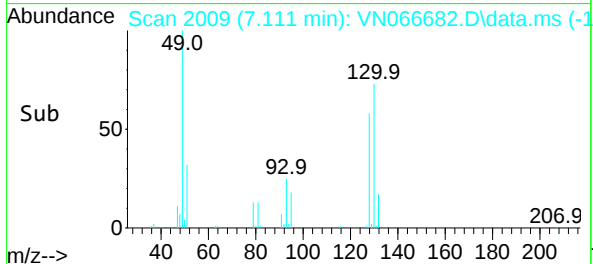
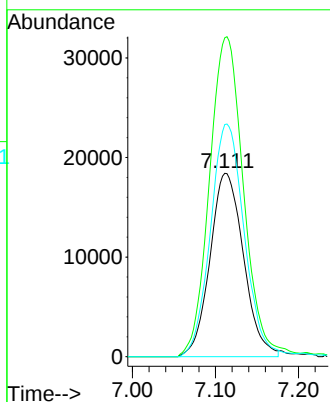
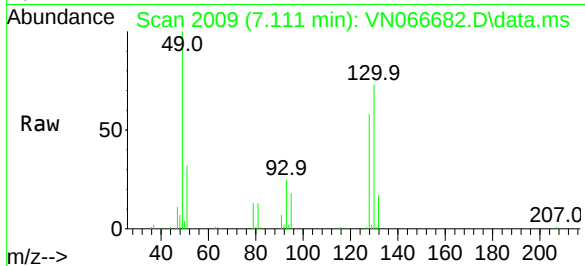




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.111 min Scan# 2009
Delta R.T. -0.003 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

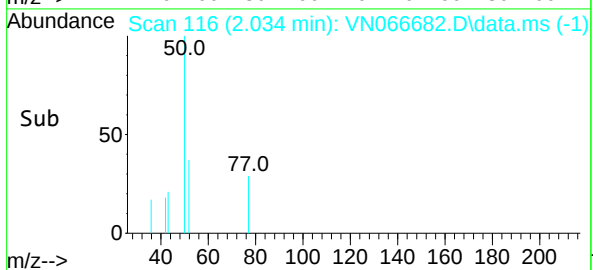
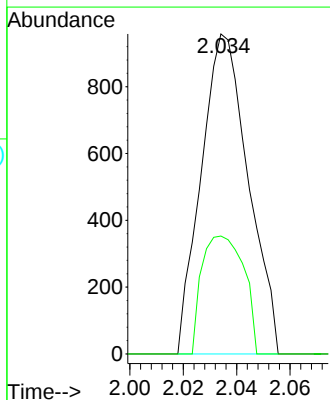
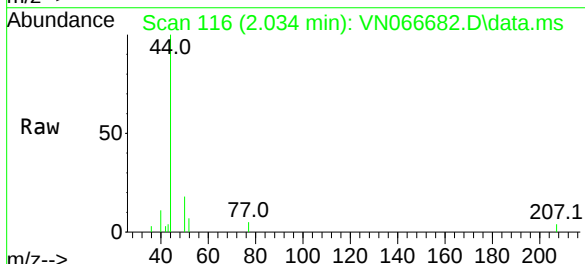
Instrument :
MSVOA_N
ClientSampleId :

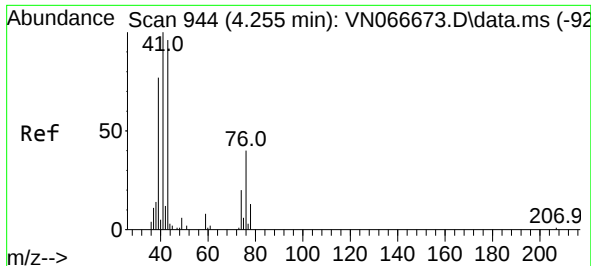
Tgt Ion:128 Resp: 51706
Ion Ratio Lower Upper
128 100
49 177.1 0.0 429.3
130 128.3 0.0 328.5



#3
Chloromethane
Concen: 0.30 ug/l
RT: 2.034 min Scan# 116
Delta R.T. 0.000 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

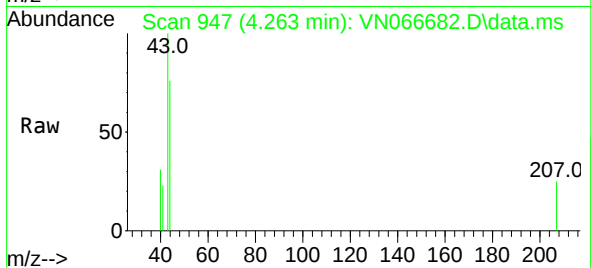
Tgt Ion: 50 Resp: 1173
Ion Ratio Lower Upper
50 100
52 36.8 26.2 39.4



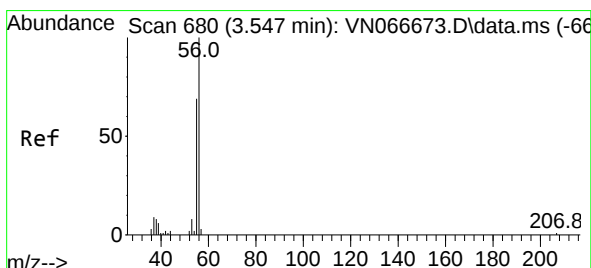
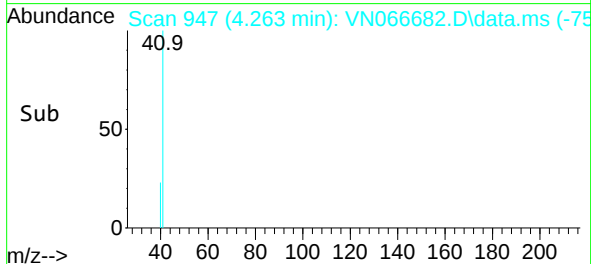
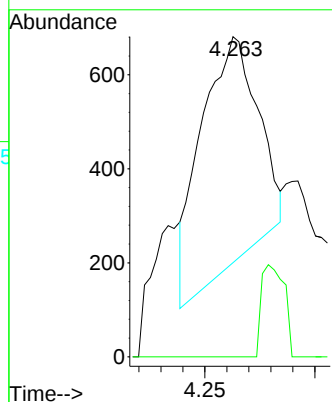


#12
Methyl Acetate
Concen: 0.24 ug/l
RT: 4.263 min Scan# 947
Delta R.T. 0.008 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Instrument :
MSVOA_N
ClientSampled :

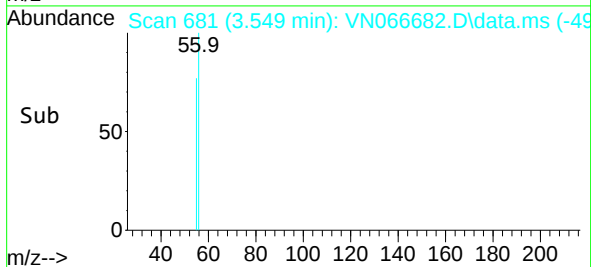
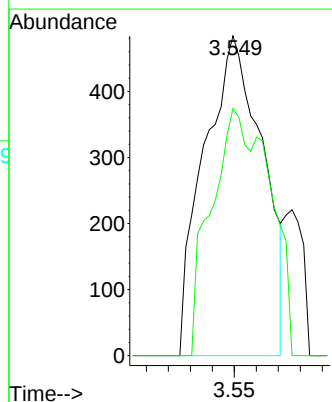
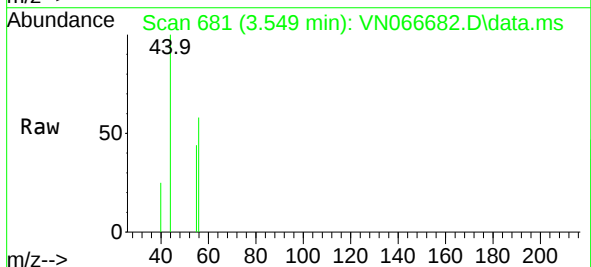


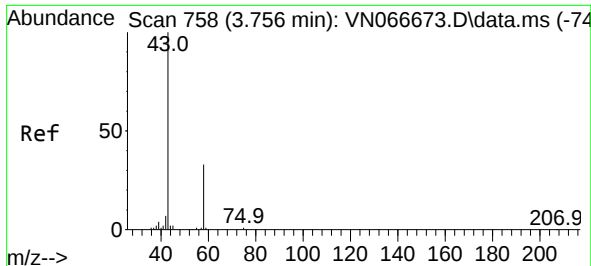
Tgt Ion: 43 Resp: 883
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#13
Acrolein
Concen: 1.73 ug/l
RT: 3.549 min Scan# 681
Delta R.T. 0.002 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Tgt Ion: 56 Resp: 895
Ion Ratio Lower Upper
56 100
55 13.0 54.1 81.1#

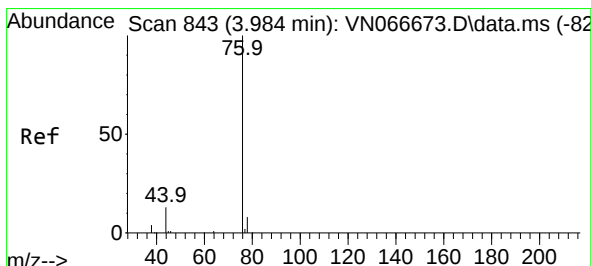
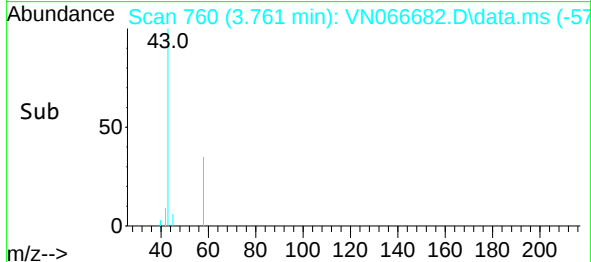
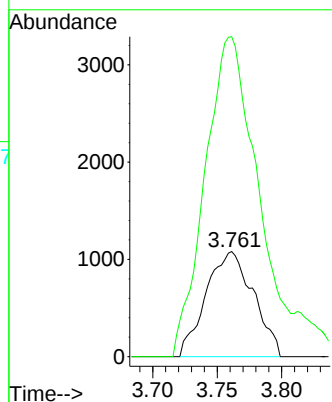
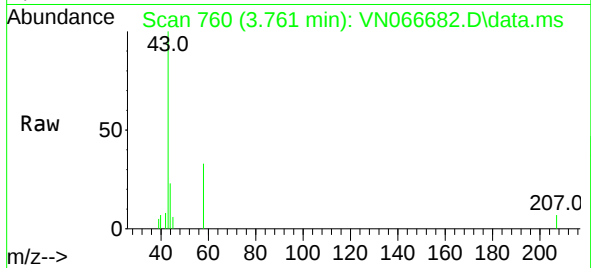




#15
Acetone
Concen: 6.53 ug/l
RT: 3.761 min Scan# 760
Delta R.T. 0.005 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

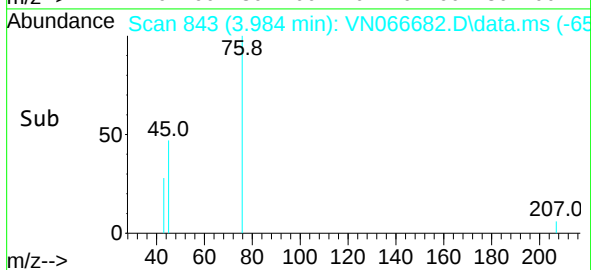
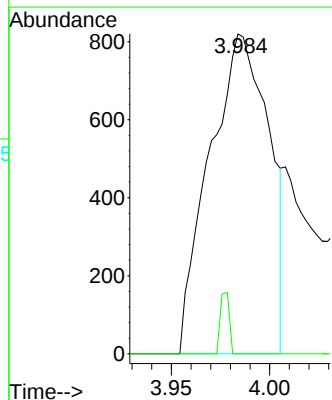
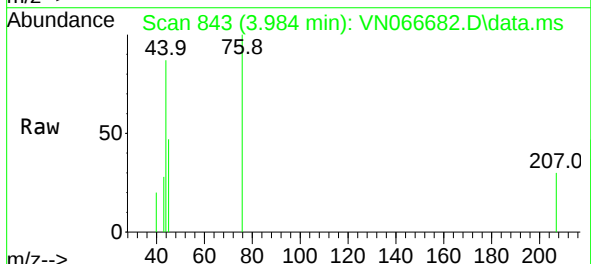
Instrument :
MSVOA_N
ClientSampled :

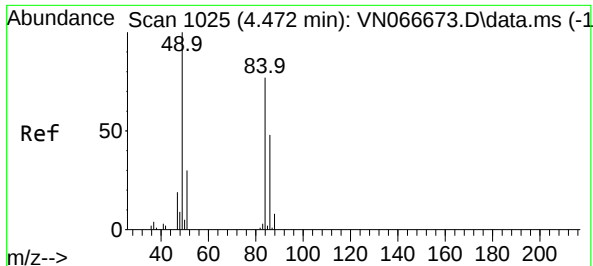
Tgt Ion: 58 Resp: 2761
Ion Ratio Lower Upper
58 100
43 270.0 267.3 400.9



#16
Carbon Disulfide
Concen: 0.21 ug/l
RT: 3.984 min Scan# 843
Delta R.T. -0.000 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Tgt Ion: 76 Resp: 1720
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#





#18

Methylene Chloride

Concen: 0.22 ug/l

RT: 4.467 min Scan# 1023

Delta R.T. -0.005 min

Lab File: VN066682.D

Acq: 20 Apr 2021 15:16

Tgt Ion: 84 Resp: 766

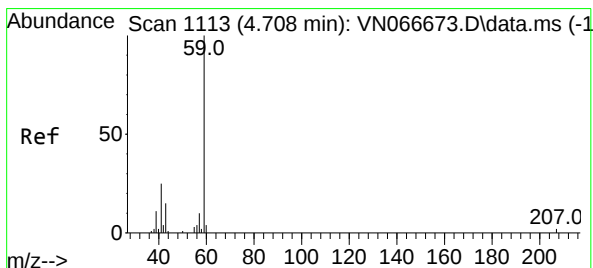
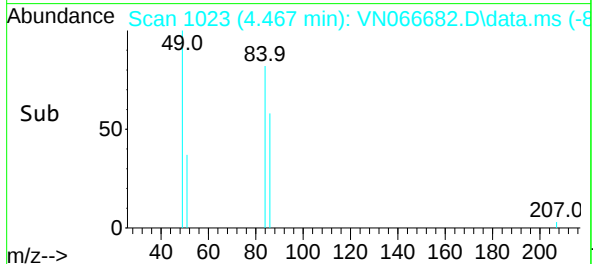
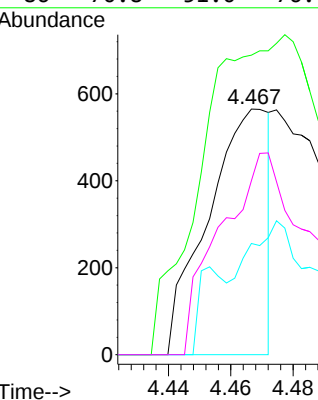
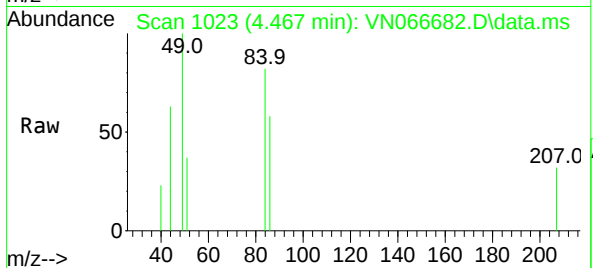
Ion Ratio Lower Upper

84 100

49 87.8 98.9 148.3#

51 45.3 30.8 46.2

86 70.8 51.0 76.4



#23

tert-Butyl Alcohol

Concen: 0.27 ug/l

RT: 4.654 min Scan# 1093

Delta R.T. -0.054 min

Lab File: VN066682.D

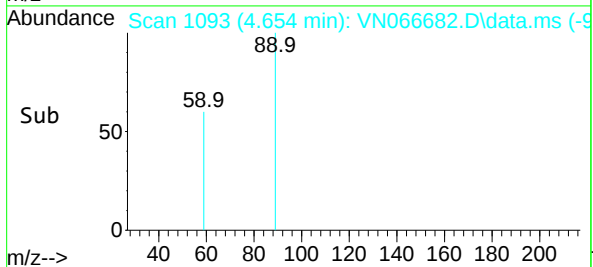
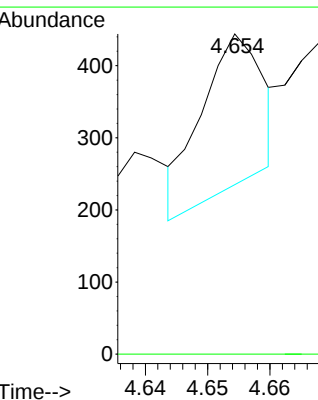
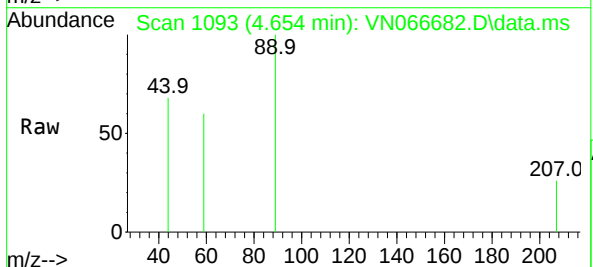
Acq: 20 Apr 2021 15:16

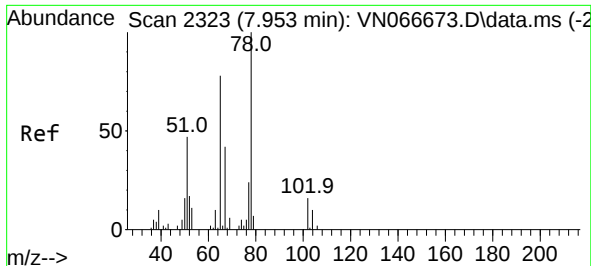
Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#





#27

1,2-Dichloroethane-d4

Concen: 30.17 ug/l

RT: 7.956 min Scan# 2324

Delta R.T. 0.003 min

Lab File: VN066682.D

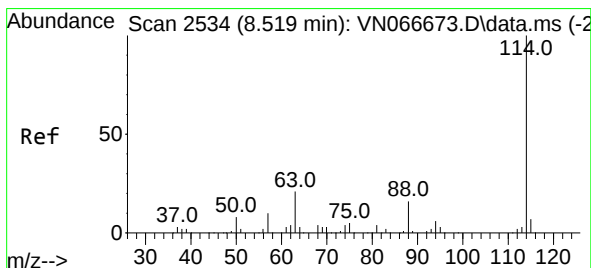
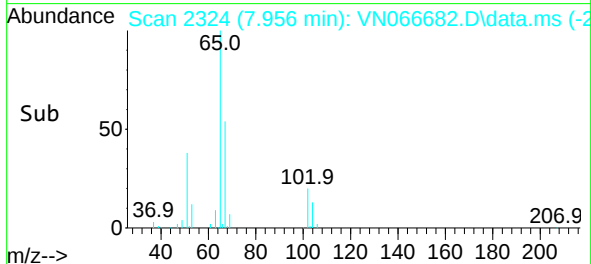
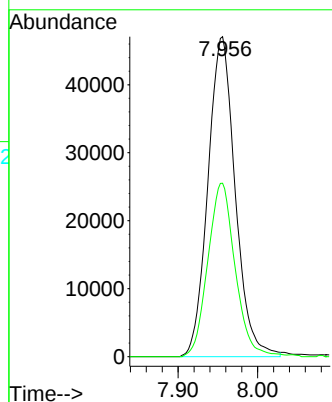
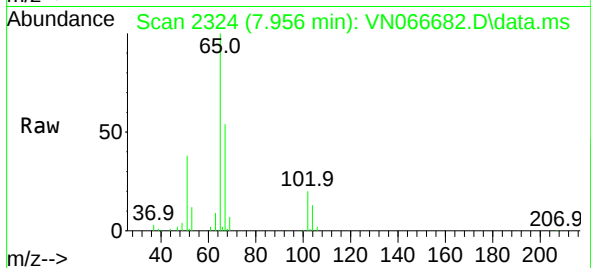
Acq: 20 Apr 2021 15:16

Tgt Ion: 65 Resp: 112406

Ion Ratio Lower Upper

65 100

67 54.2 42.2 63.4



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.519 min Scan# 2534

Delta R.T. 0.000 min

Lab File: VN066682.D

Acq: 20 Apr 2021 15:16

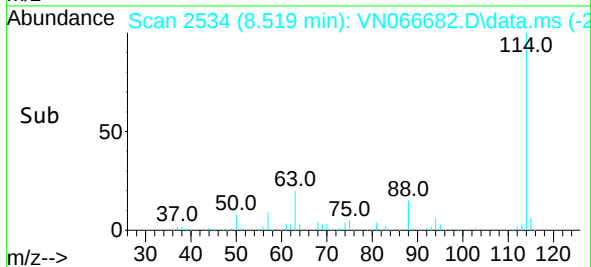
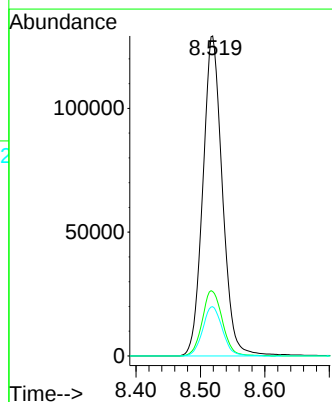
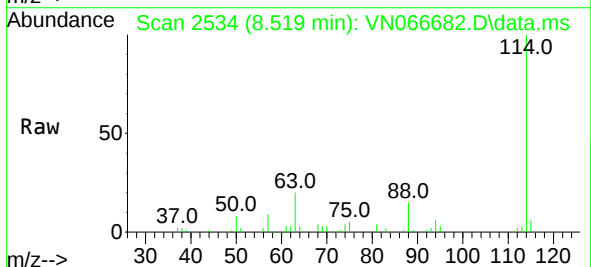
Tgt Ion: 114 Resp: 271801

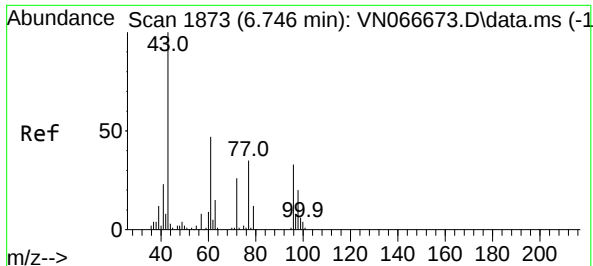
Ion Ratio Lower Upper

114 100

63 21.1 17.4 26.0

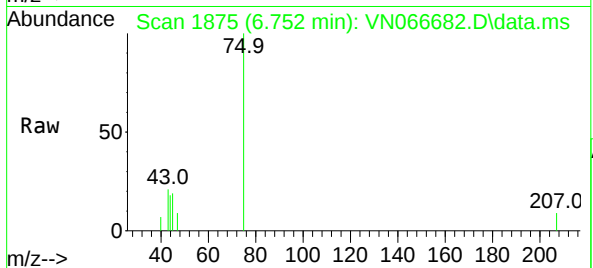
88 15.6 12.6 19.0



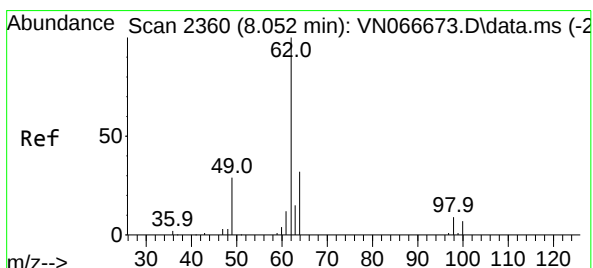
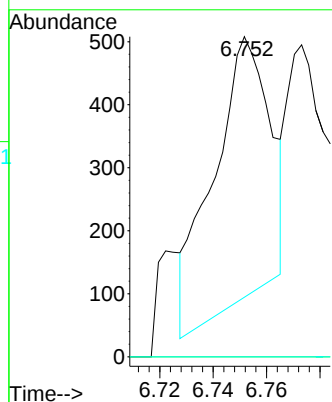
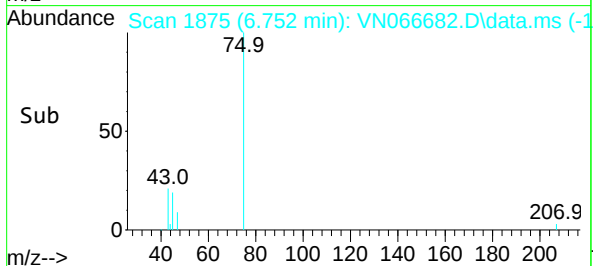


#30
2-Butanone
Concen: 0.30 ug/l
RT: 6.752 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

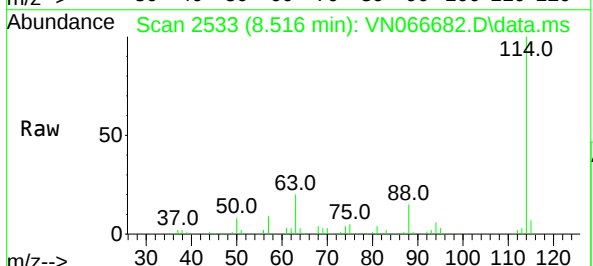
Instrument :
MSVOA_N
ClientSampled :



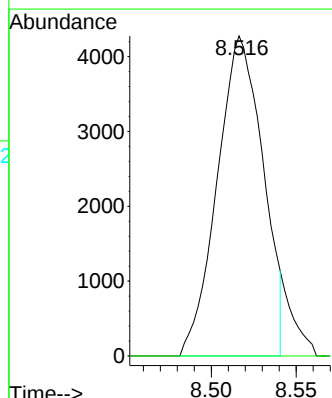
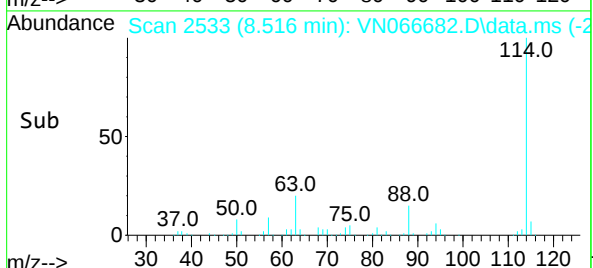
Tgt Ion: 43 Resp: 612
Ion Ratio Lower Upper
43 100
57 0.0 6.9 10.3#
72 0.0 20.9 31.3#

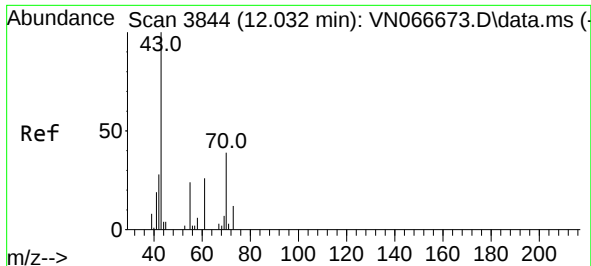


#36
1,2-Dichloroethane
Concen: 1.77 ug/l
RT: 8.516 min Scan# 2533
Delta R.T. 0.464 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16



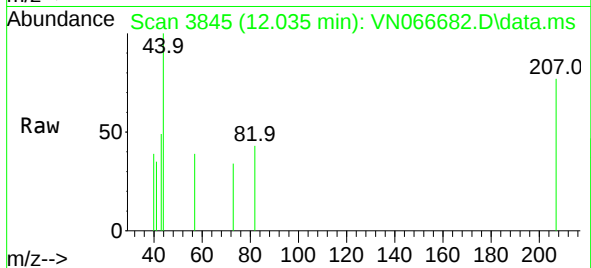
Tgt Ion: 62 Resp: 8013
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



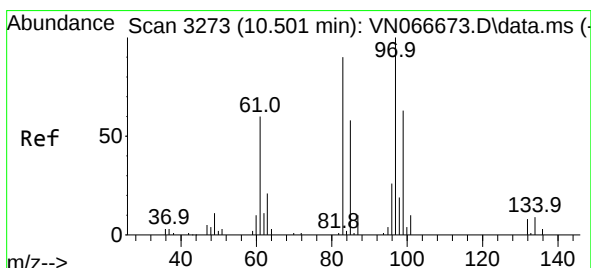
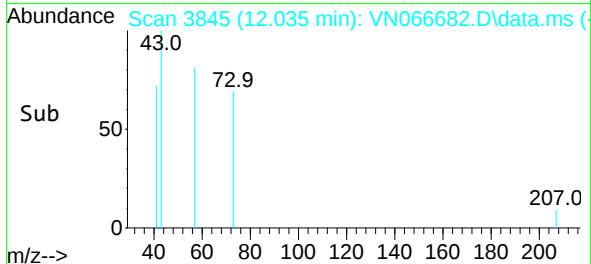
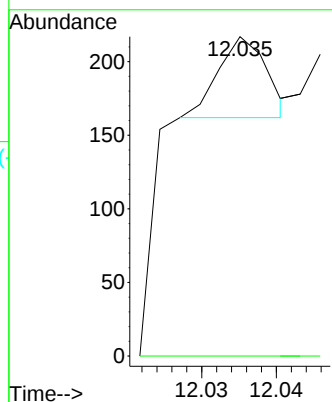


#47
n-amy1 Acetate
Concen: 19.44 ug/l
RT: 12.035 min Scan# 3845
Delta R.T. 0.003 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Instrument :
MSVOA_N
ClientSampled :

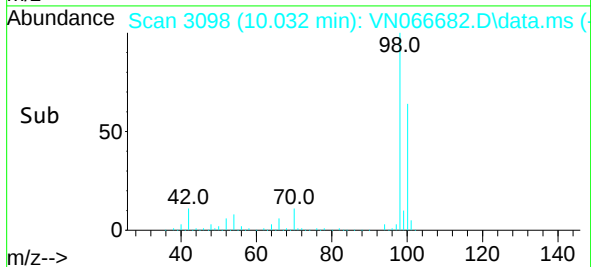
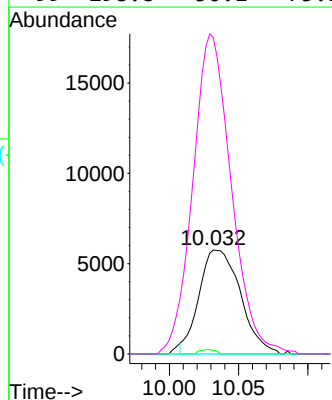
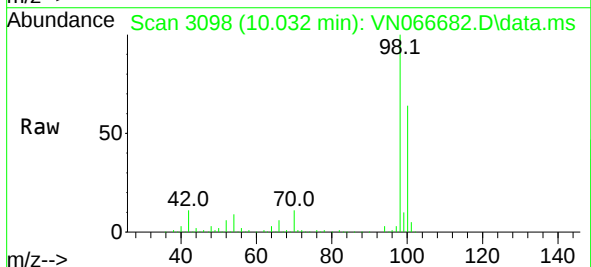


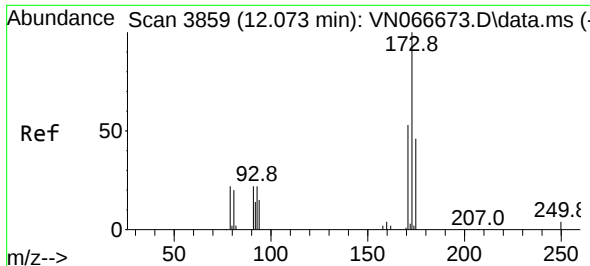
Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
55 0.0 17.7 26.5#



#50
1,1,2-Trichloroethane
Concen: 3.60 ug/l
RT: 10.032 min Scan# 3098
Delta R.T. -0.469 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Tgt Ion: 97 Resp: 11943
Ion Ratio Lower Upper
97 100
83 3.4 68.8 103.2#
85 0.0 44.8 67.2#
99 298.8 50.1 75.1#

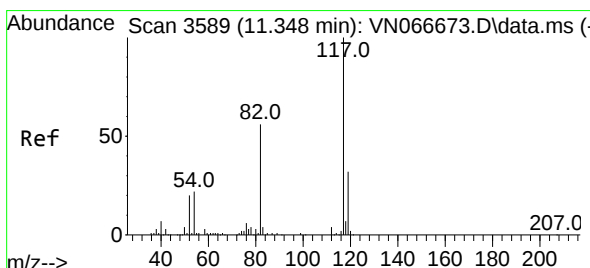
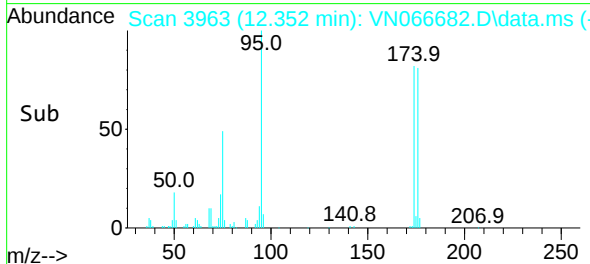
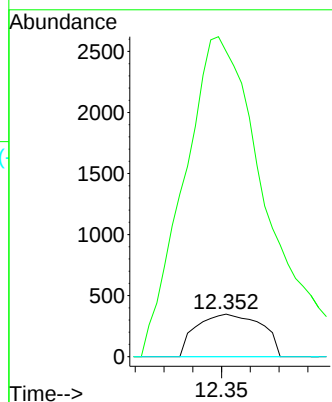
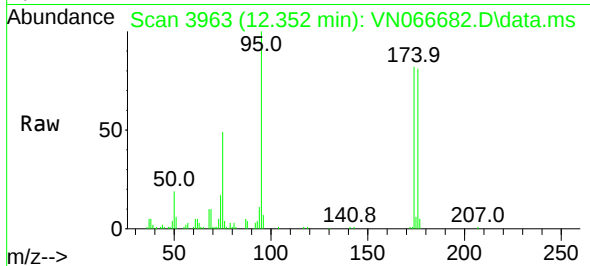




#56
Bromoform
Concen: 0.21 ug/l
RT: 12.352 min Scan# 3963
Delta R.T. 0.279 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

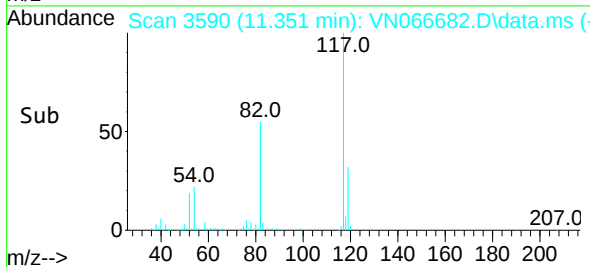
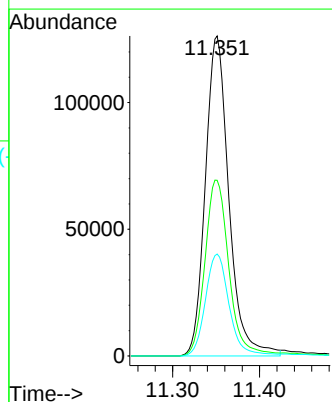
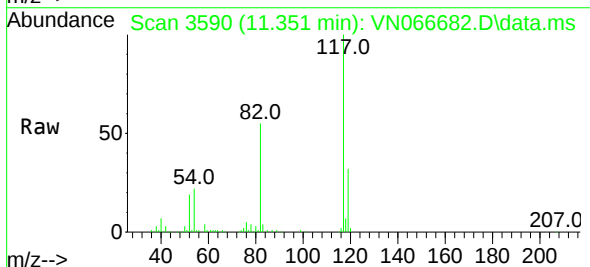
Instrument :
MSVOA_N
ClientSampled :

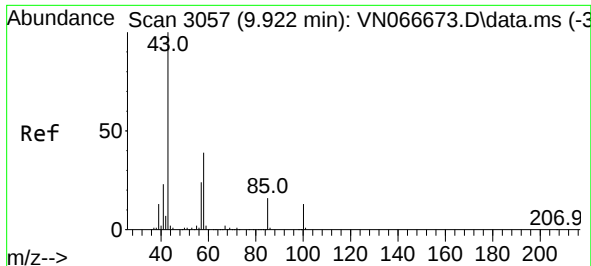
Tgt Ion:173 Resp: 548
Ion Ratio Lower Upper
173 100
175 945.1 38.3 57.5#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

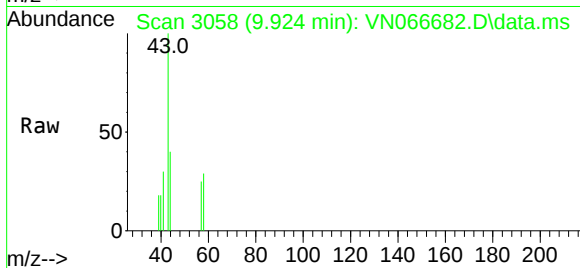
Tgt Ion:117 Resp: 237388
Ion Ratio Lower Upper
117 100
82 56.1 45.0 67.6
119 32.2 25.5 38.3



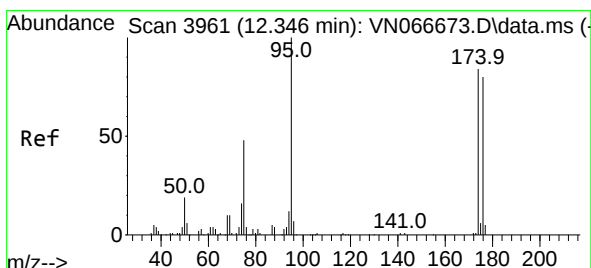
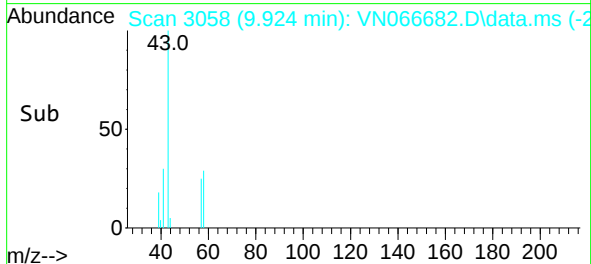
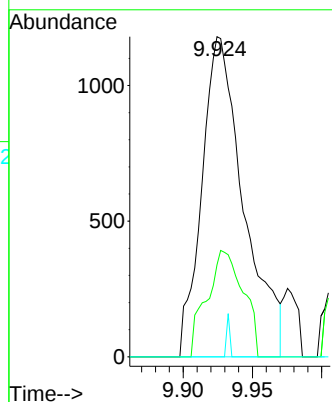


#58
4-Methyl-2-Pentanone
Concen: 0.61 ug/l
RT: 9.924 min Scan# 3058
Delta R.T. 0.002 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Instrument :
MSVOA_N
ClientSampled :

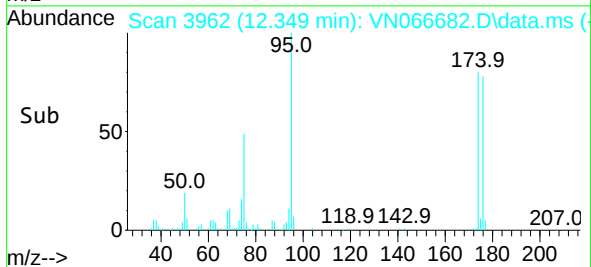
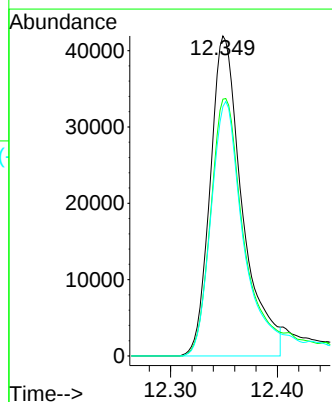
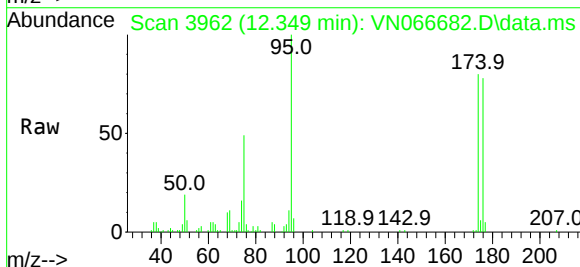


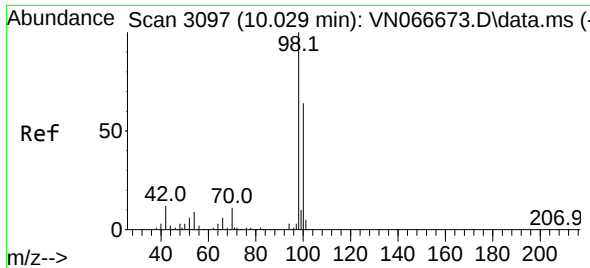
Tgt Ion: 43 Resp: 2478
Ion Ratio Lower Upper
43 100
58 28.9 30.4 45.6#
85 0.0 13.8 20.8#



#60
4-Bromofluorobenzene
Concen: 23.55 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Tgt Ion: 95 Resp: 87639
Ion Ratio Lower Upper
95 100
174 83.3 68.1 102.1
176 83.5 65.4 98.0

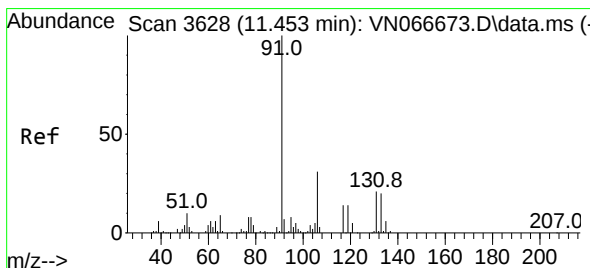
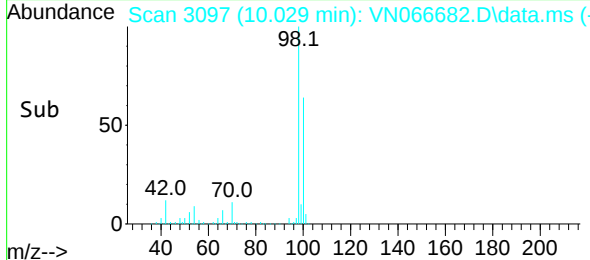
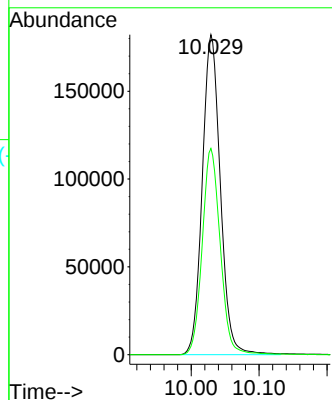
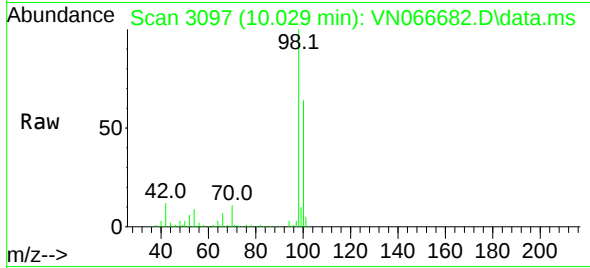




#63
Toluene-d8
Concen: 30.86 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. 0.000 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

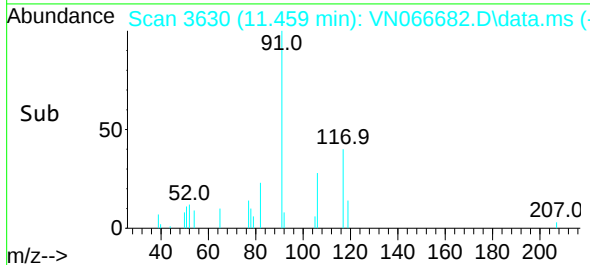
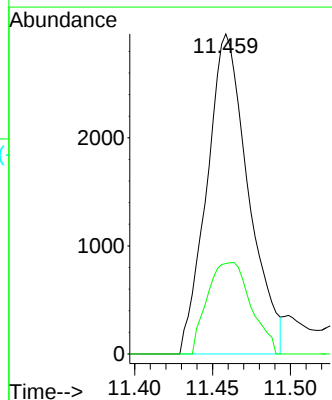
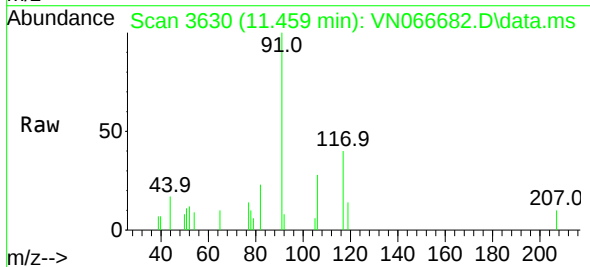
Instrument :
MSVOA_N
ClientSampled :

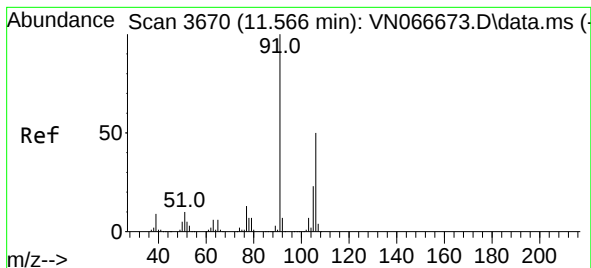
Tgt Ion: 98 Resp: 337014
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#66
Ethyl Benzene
Concen: 0.38 ug/l
RT: 11.459 min Scan# 3630
Delta R.T. 0.006 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

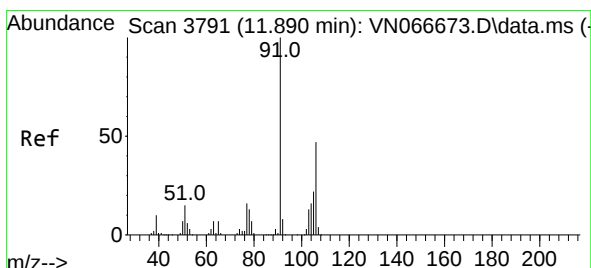
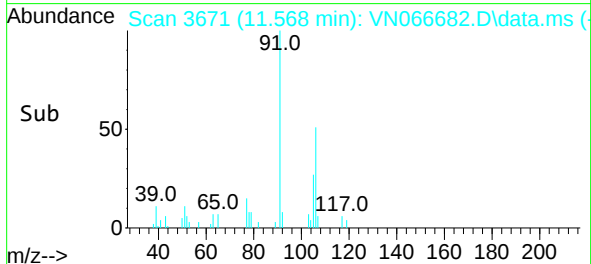
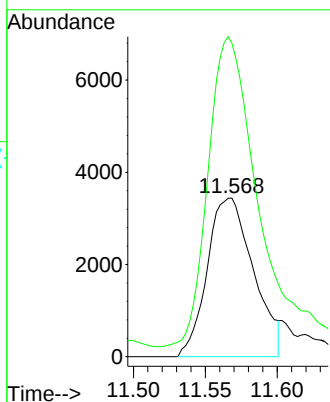
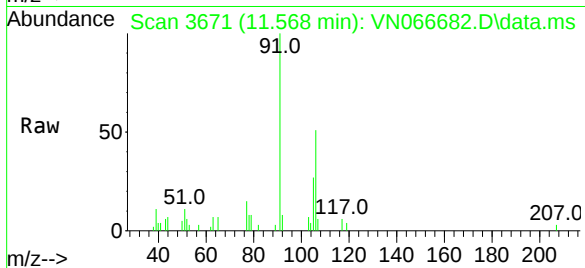
Tgt Ion: 91 Resp: 5477
Ion Ratio Lower Upper
91 100
106 28.2 25.5 38.3





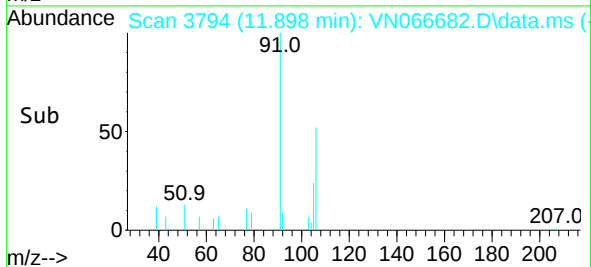
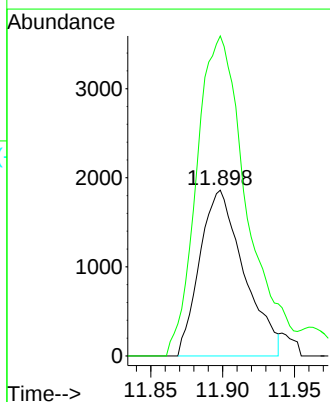
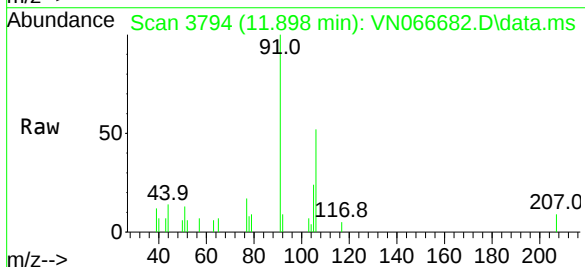
#67
m/p-Xylenes
Concen: 1.42 ug/l
RT: 11.568 min Scan# 3671
Delta R.T. 0.002 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

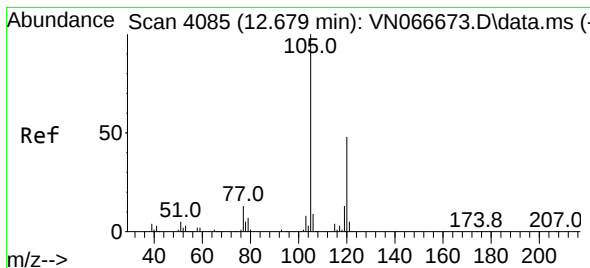
Tgt Ion:106 Resp: 7688
Ion Ratio Lower Upper
106 100
91 223.0 164.8 247.2



#68
o-Xylene
Concen: 0.76 ug/l
RT: 11.898 min Scan# 3794
Delta R.T. 0.008 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Tgt Ion:106 Resp: 3981
Ion Ratio Lower Upper
106 100
91 219.1 107.1 321.4

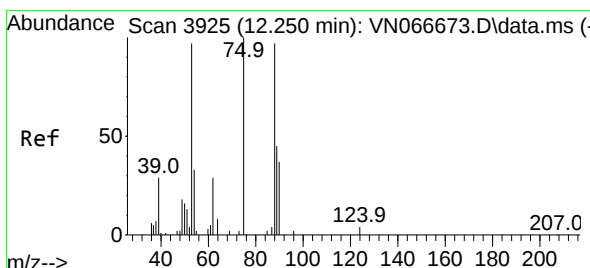
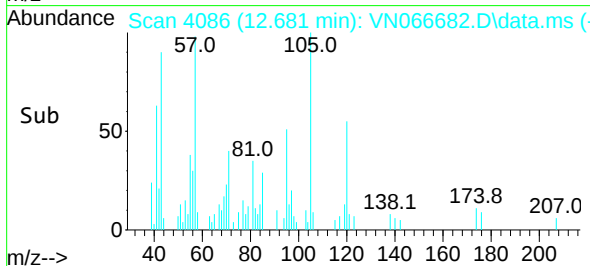
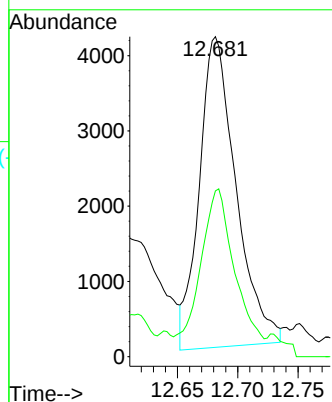
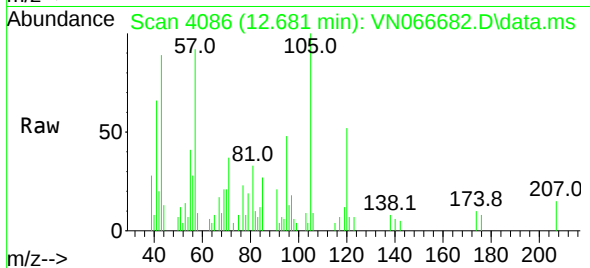




#76
1,3,5-Trimethylbenzene
Concen: 0.76 ug/l
RT: 12.681 min Scan# 4086
Delta R.T. 0.002 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

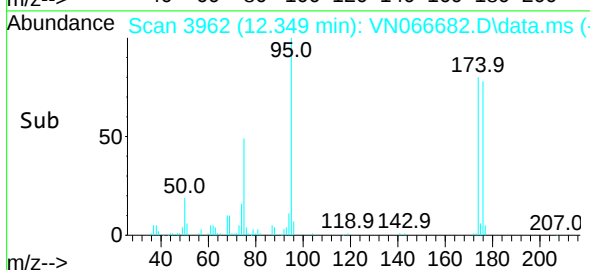
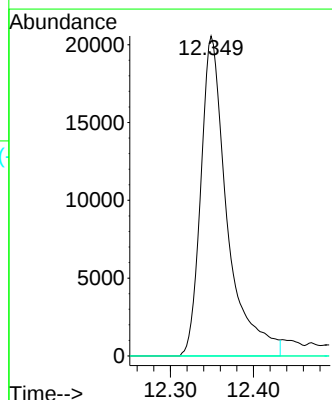
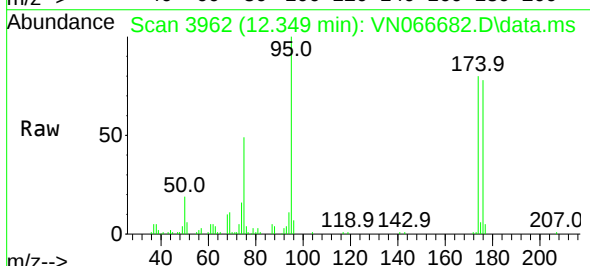
Instrument :
MSVOA_N
ClientSampleId :

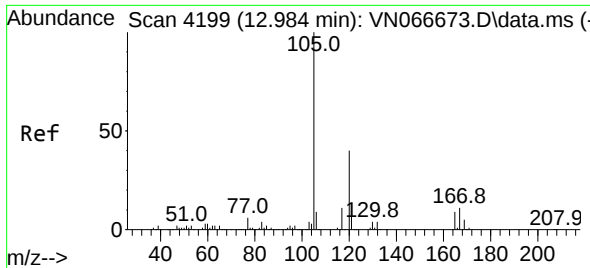
Tgt Ion:105 Resp: 8747
Ion Ratio Lower Upper
105 100
120 41.6 0.0 98.2



#77
t-1,4-Dichloro-2-butene
Concen: 36.44 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.099 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

Tgt Ion: 75 Resp: 45288
Ion Ratio Lower Upper
75 100
53 0.0 49.6 149.0#
89 0.0 22.9 68.7#

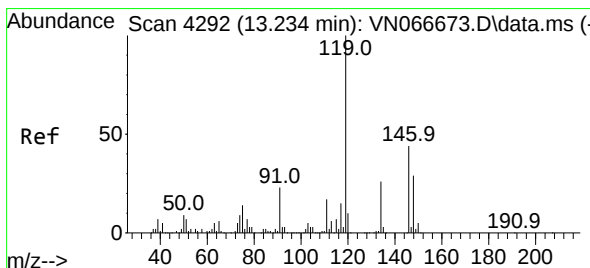
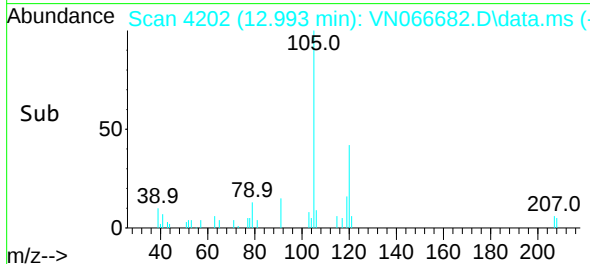
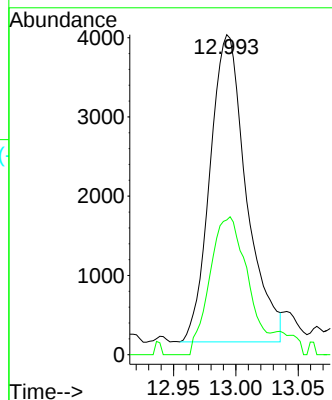
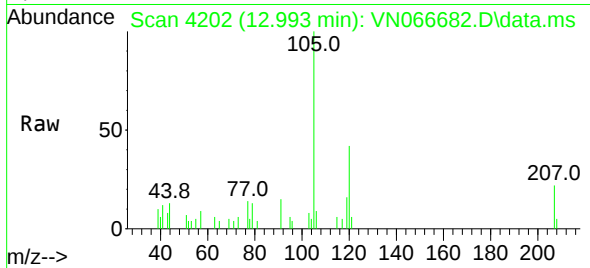




#80
1,2,4-Trimethylbenzene
Concen: 0.71 ug/l
RT: 12.993 min Scan# 4202
Delta R.T. 0.009 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

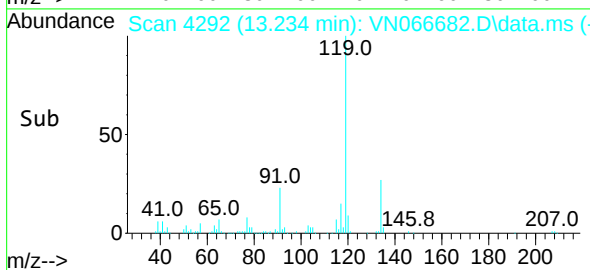
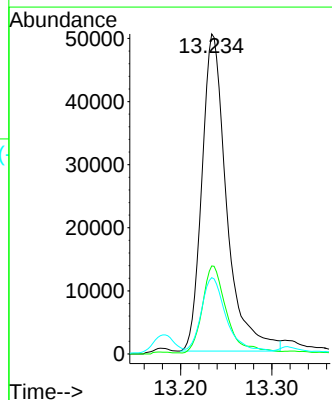
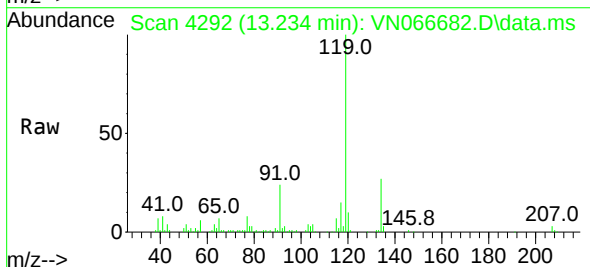
Instrument :
MSVOA_N
ClientSampleId :

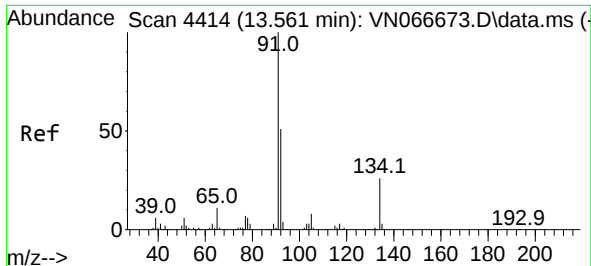
Tgt Ion:105 Resp: 7882
Ion Ratio Lower Upper
105 100
120 46.4 0.0 90.6



#82
p-Isopropyltoluene
Concen: 8.59 ug/l
RT: 13.234 min Scan# 4292
Delta R.T. -0.000 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

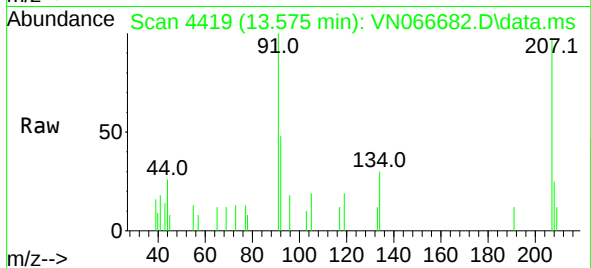
Tgt Ion:119 Resp: 94821
Ion Ratio Lower Upper
119 100
134 26.4 0.0 53.4
91 23.8 0.0 47.6



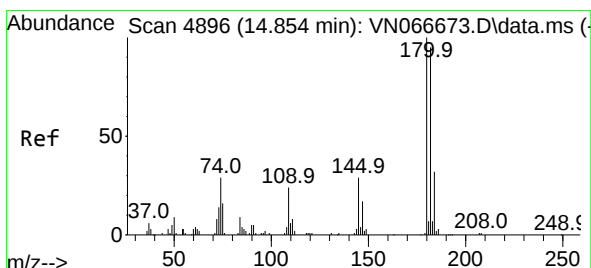
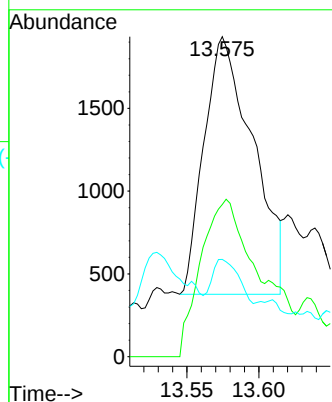
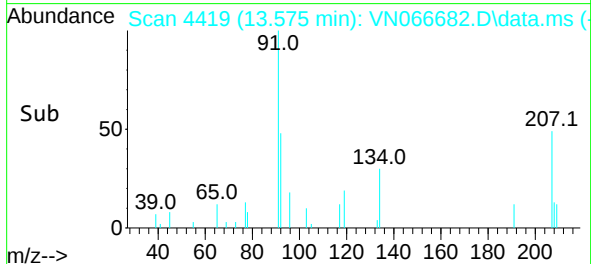


#85
n-Butylbenzene
Concen: 0.40 ug/l
RT: 13.575 min Scan# 4419
Delta R.T. 0.014 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

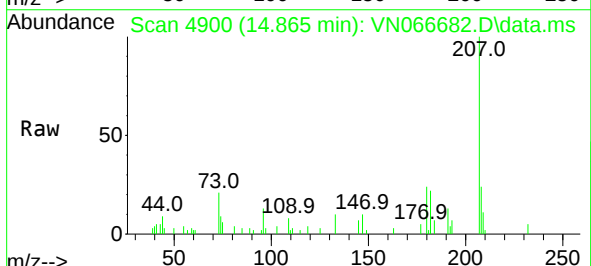
Instrument :
MSVOA_N
ClientSampled :



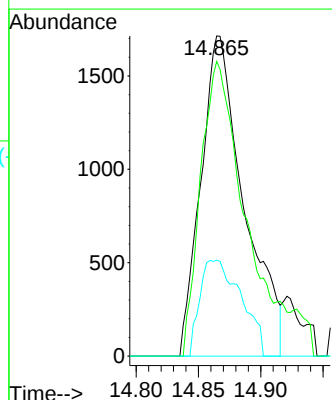
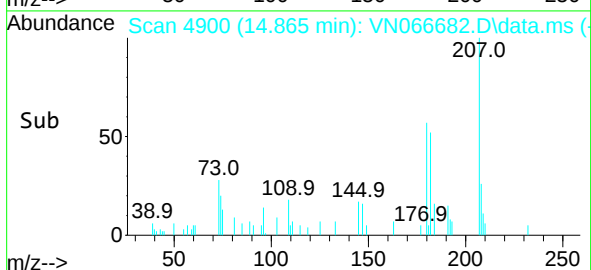
Tgt Ion: 91 Resp: 3673
Ion Ratio Lower Upper
91 100
92 61.1 0.0 102.6
134 9.1 0.0 49.0

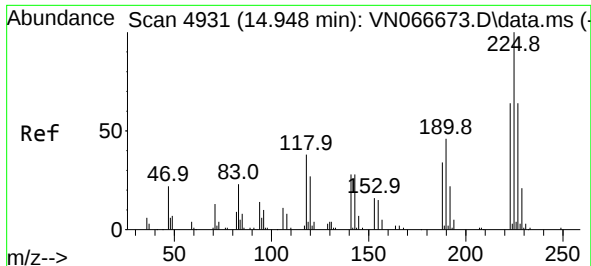


#89
1,2,4-Trichlorobenzene
Concen: 1.26 ug/l
RT: 14.865 min Scan# 4900
Delta R.T. 0.011 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16



Tgt Ion: 180 Resp: 4120
Ion Ratio Lower Upper
180 100
182 89.6 74.3 111.5
145 10.3 23.4 35.0#

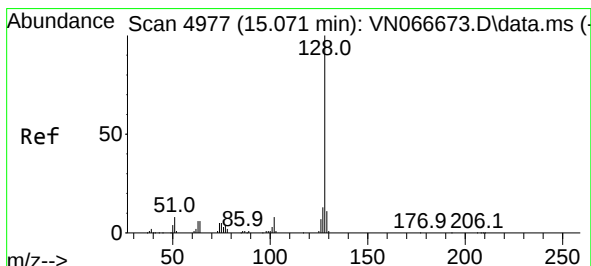
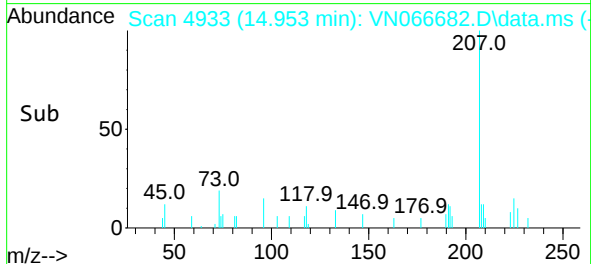
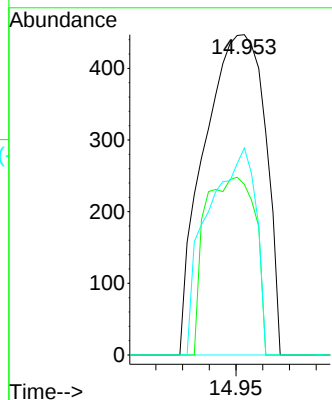
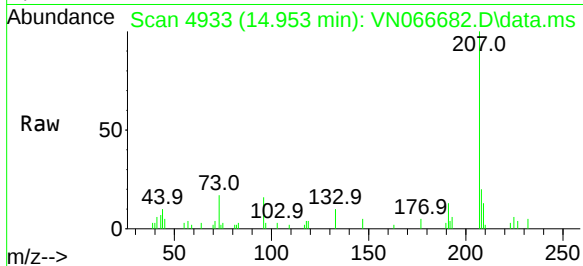




#90
Hexachlorobutadiene
Concen: 0.39 ug/l
RT: 14.953 min Scan# 4933
Delta R.T. 0.005 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

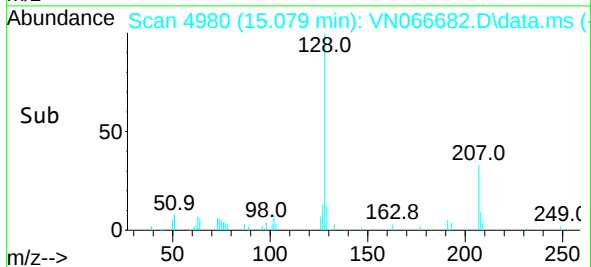
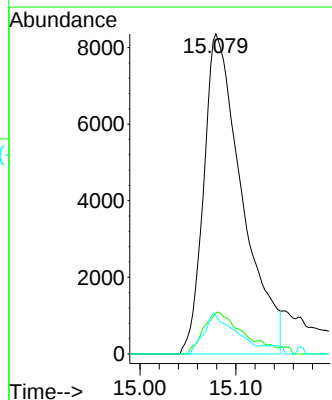
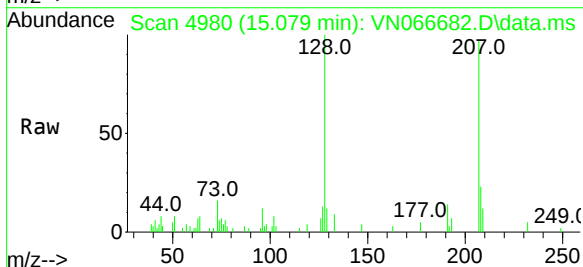
Instrument :
MSVOA_N
ClientSampled :

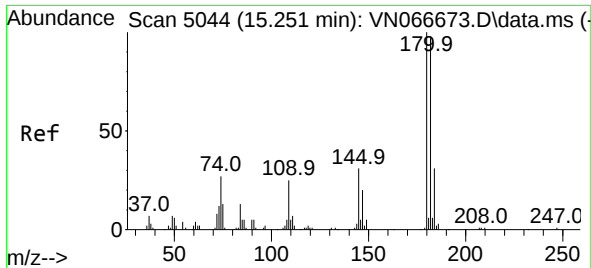
Tgt Ion:225 Resp: 710
Ion Ratio Lower Upper
225 100
223 19.9 0.0 124.6
227 50.8 0.0 126.6



#91
Naphthalene
Concen: 2.95 ug/l
RT: 15.079 min Scan# 4980
Delta R.T. 0.008 min
Lab File: VN066682.D
Acq: 20 Apr 2021 15:16

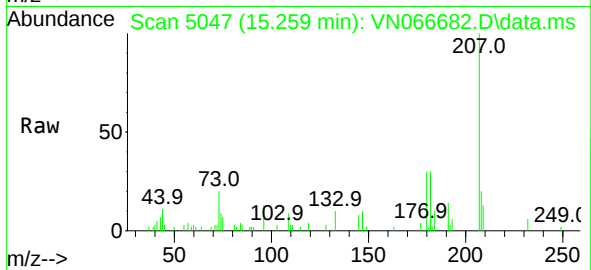
Tgt Ion:128 Resp: 23173
Ion Ratio Lower Upper
128 100
127 11.9 10.2 15.2
129 10.3 8.6 13.0





#92
 1,2,3-Trichlorobenzene
 Concen: 1.97 ug/l
 RT: 15.259 min Scan# 5047
 Delta R.T. 0.008 min
 Lab File: VN066682.D
 Acq: 20 Apr 2021 15:16

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	6096
Ion Ratio	Lower	Upper	
180	100		
182	91.5	0.0	190.0
145	13.7	0.0	60.8

