

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042321\
 Data File : VN066736.D
 Acq On : 23 Apr 2021 14:33
 Operator : JC/MD
 Sample : M2150-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 26 03:20:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 21 16:55:39 2021
 Response via : Initial Calibration

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

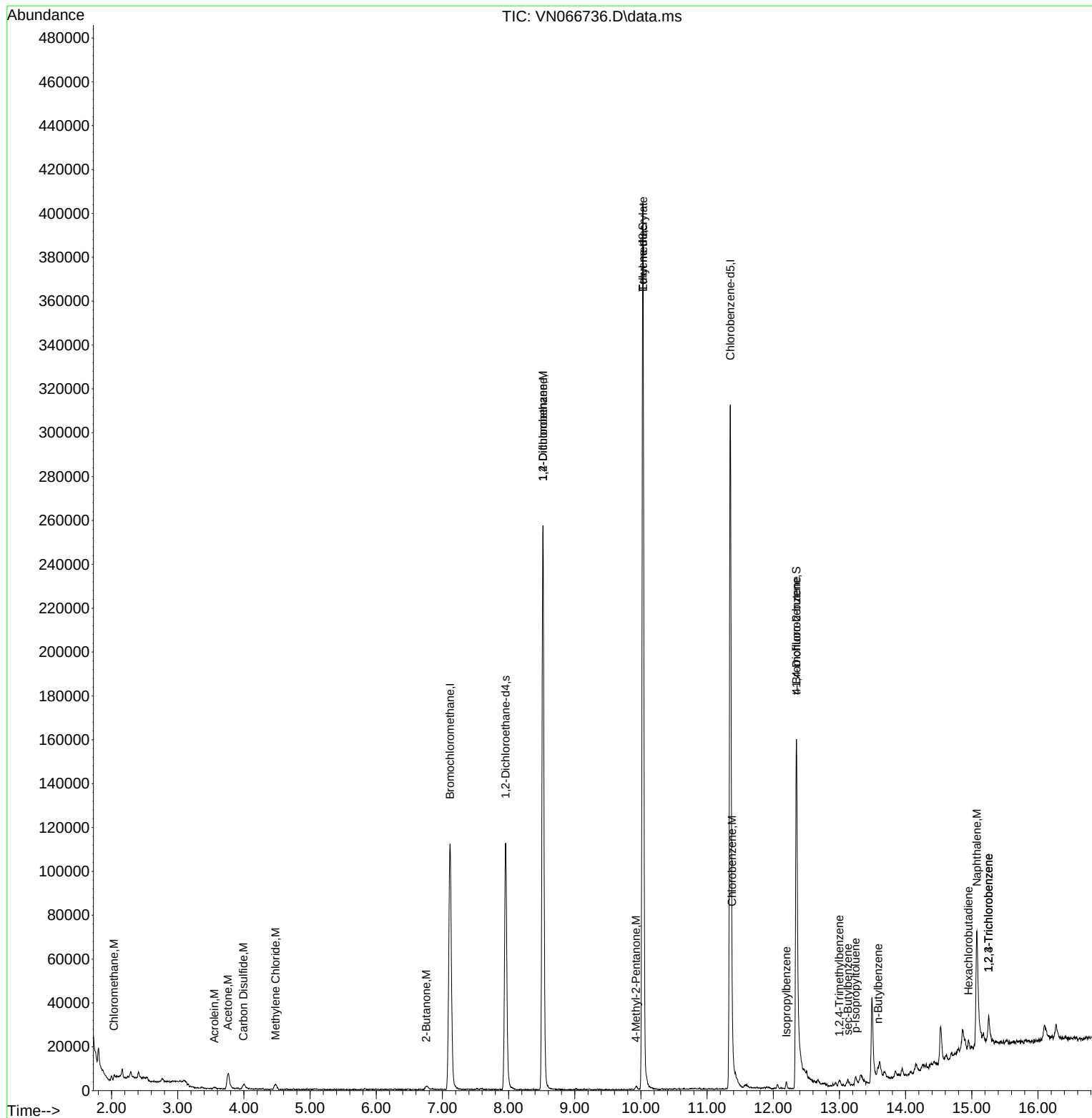
Internal Standards						
1) Bromochloromethane	7.116	128	46078	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	240909	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.351	117	209226	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.956	65	99521	29.98	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.93%	
60) 4-Bromofluorobenzene	12.349	95	69830	21.29	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	70.97%	
63) Toluene-d8	10.029	98	293709	30.51	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.70%	
Target Compounds						Qvalue
3) Chloromethane	2.037	50	1007	0.29	ug/l	99
13) Acrolein	3.552	56	488	1.06	ug/l #	79
15) Acetone	3.758	58	4499	11.95	ug/l #	58
16) Carbon Disulfide	3.992	76	1950	0.26	ug/l #	76
18) Methylene Chloride	4.480	84	1972	0.64	ug/l #	76
30) 2-Butanone	6.754	43	1375	0.75	ug/l #	86
36) 1,2-Dichloroethane	8.519	62	7486	1.87	ug/l #	76
51) Ethyl methacrylate	10.031	69	917	0.22	ug/l	88
58) 4-Methyl-2-Pentanone	9.924	43	794	0.22	ug/l #	71
64) Chlorobenzene	11.375	112	6117	0.86	ug/l	99
70) Isopropylbenzene	12.196	105	2578	0.21	ug/l #	82
77) t-1,4-Dichloro-2-butene	12.349	75	37921	34.62	ug/l #	10
80) 1,2,4-Trimethylbenzene	12.998	105	2492	0.25	ug/l	94
81) sec-Butylbenzene	13.126	105	2919	0.26	ug/l	80
82) p-Isopropyltoluene	13.242	119	3408	0.35	ug/l	96
85) n-Butylbenzene	13.585	91	4595	0.57	ug/l	62
89) 1,2,4-Trichlorobenzene	15.253	180	5983	2.08	ug/l	97
90) Hexachlorobutadiene	14.950	225	1131	0.70	ug/l	97
91) Naphthalene	15.076	128	69408	10.03	ug/l	96
92) 1,2,3-Trichlorobenzene	15.253	180	5983	2.20	ug/l	97

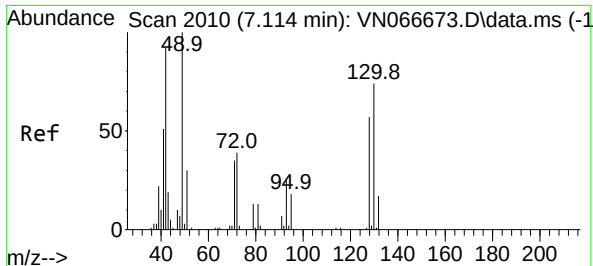
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
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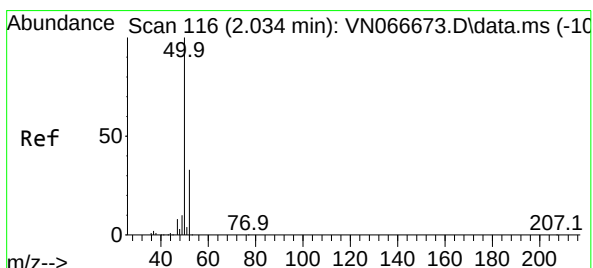
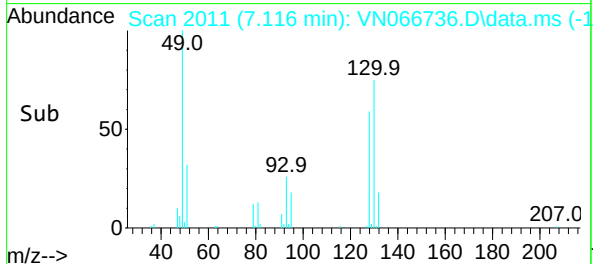
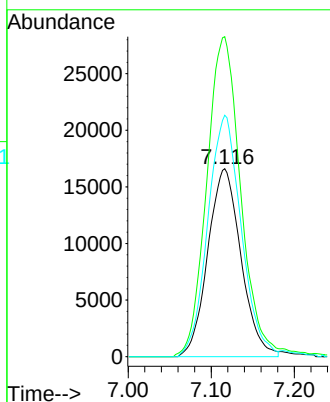
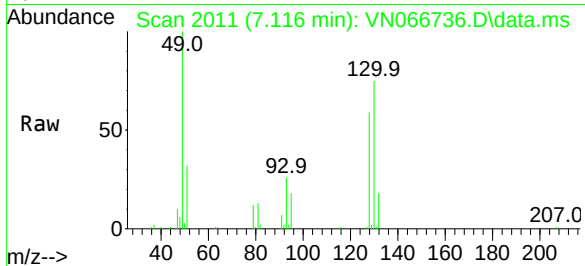




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.116 min Scan# 2011
Delta R.T. 0.002 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

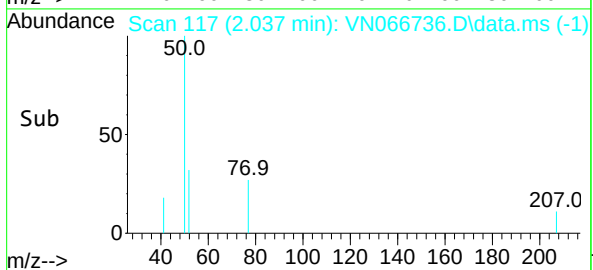
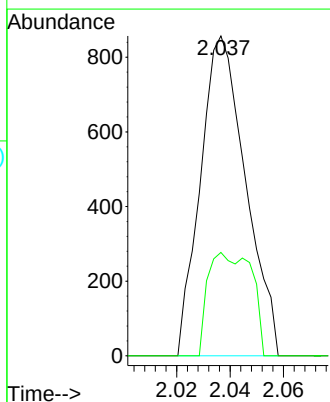
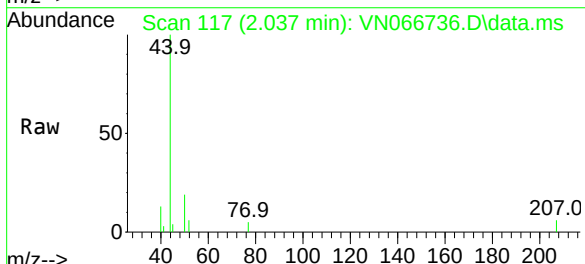
Instrument :
MSVOA_N
ClientSampled :

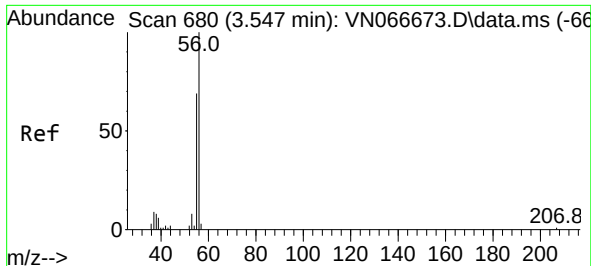
Tgt Ion:128 Resp: 46078
Ion Ratio Lower Upper
128 100
49 172.9 0.0 429.3
130 129.4 0.0 328.5



#3
Chloromethane
Concen: 0.29 ug/l
RT: 2.037 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Tgt Ion: 50 Resp: 1007
Ion Ratio Lower Upper
50 100
52 32.3 26.2 39.4

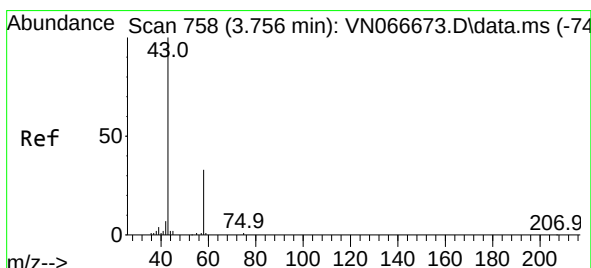
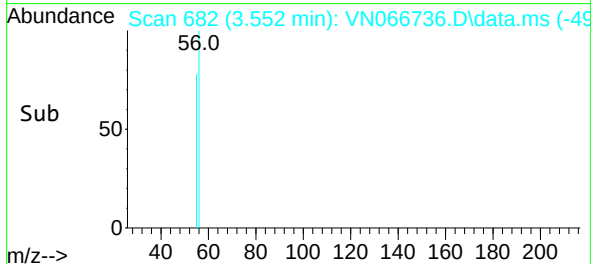
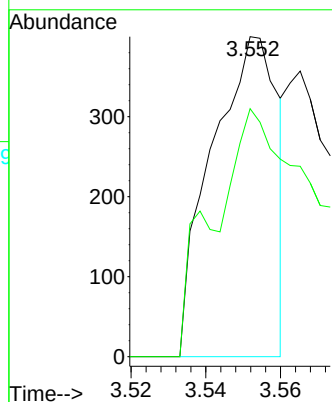
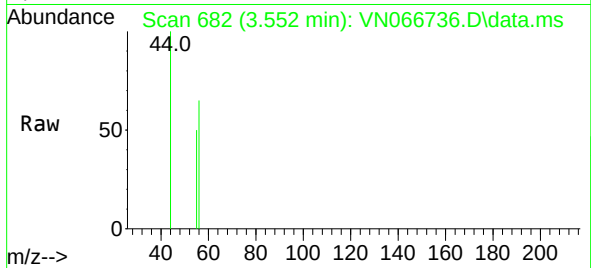




#13
Acrolein
Concen: 1.06 ug/l
RT: 3.552 min Scan# 682
Delta R.T. 0.005 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

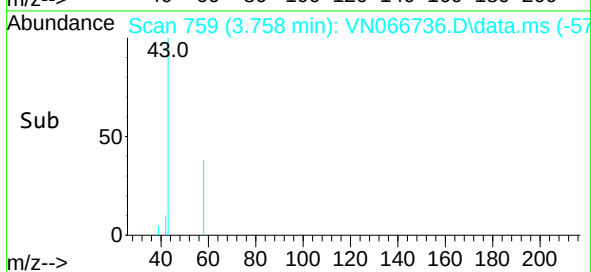
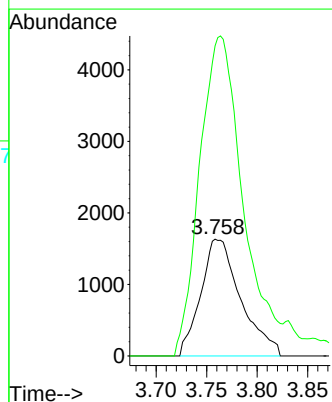
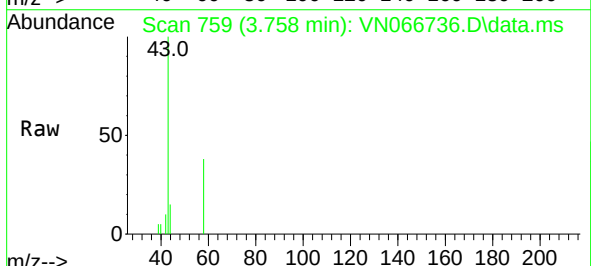
Instrument :
MSVOA_N
ClientSampled :

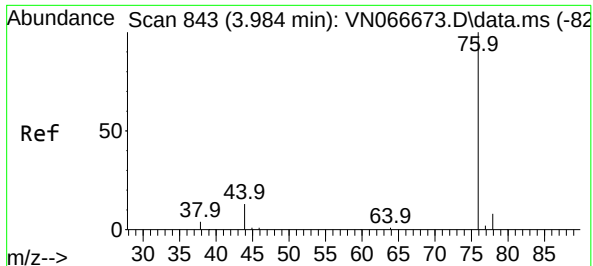
Tgt Ion: 56 Resp: 488
Ion Ratio Lower Upper
56 100
55 50.4 54.1 81.1#



#15
Acetone
Concen: 11.95 ug/l
RT: 3.758 min Scan# 759
Delta R.T. 0.002 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

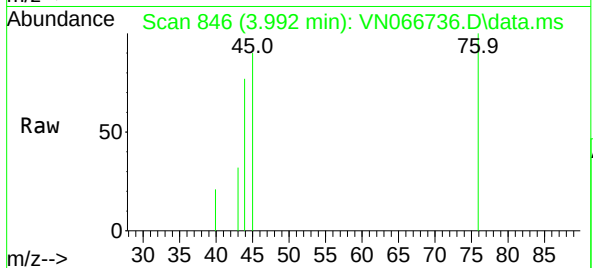
Tgt Ion: 58 Resp: 4499
Ion Ratio Lower Upper
58 100
43 246.6 267.3 400.9#



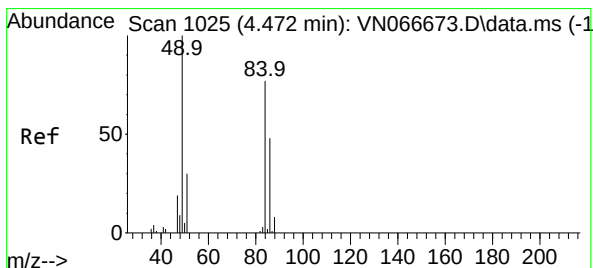
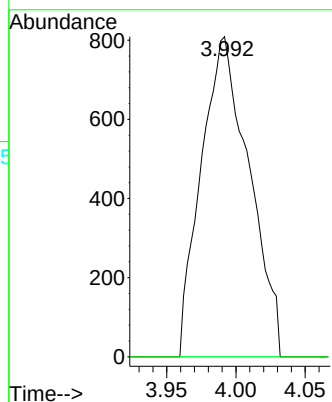
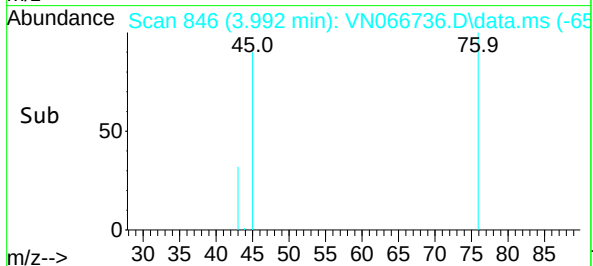


#16
Carbon Disulfide
Concen: 0.26 ug/l
RT: 3.992 min Scan# 846
Delta R.T. 0.008 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

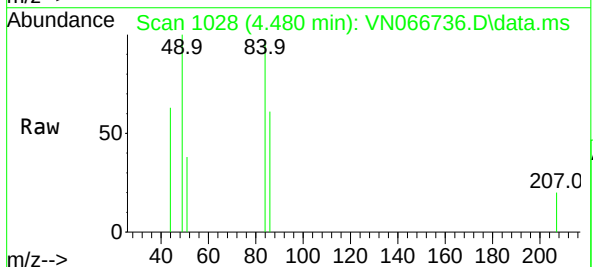
Instrument :
MSVOA_N
ClientSampled :



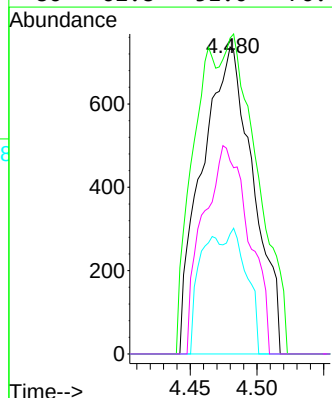
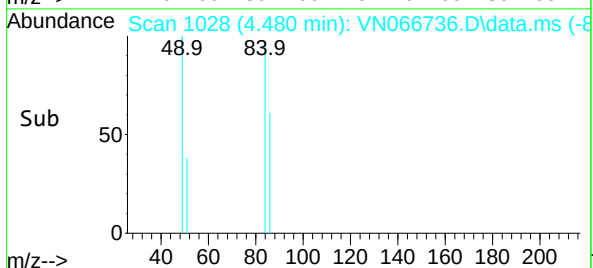
Tgt Ion: 76 Resp: 1950
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

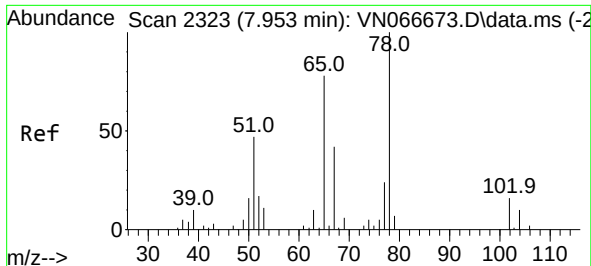


#18
Methylene Chloride
Concen: 0.64 ug/l
RT: 4.480 min Scan# 1028
Delta R.T. 0.008 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33



Tgt Ion: 84 Resp: 1972
Ion Ratio Lower Upper
84 100
49 76.0 98.9 148.3#
51 39.1 30.8 46.2
86 62.8 51.0 76.4





#27

1,2-Dichloroethane-d4

Concen: 29.98 ug/l

RT: 7.956 min Scan# 2324

Delta R.T. 0.003 min

Lab File: VN066736.D

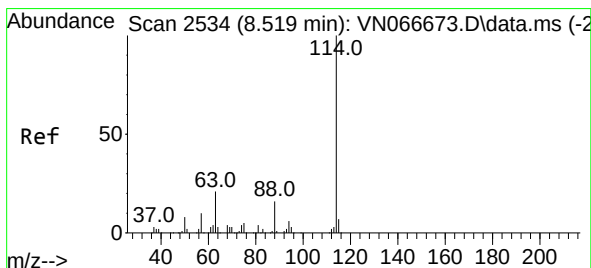
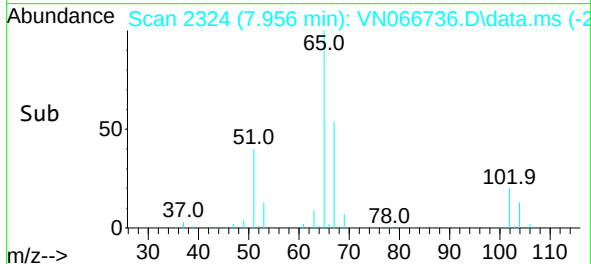
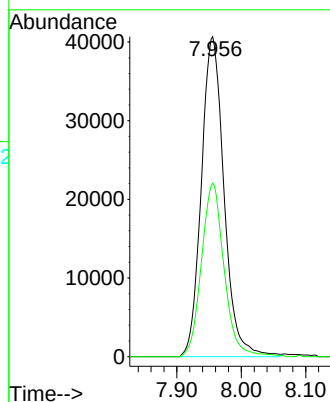
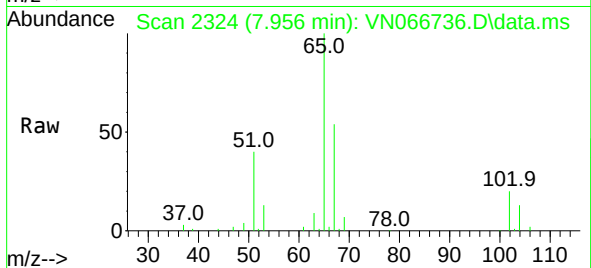
Acq: 23 Apr 2021 14:33

Tgt Ion: 65 Resp: 99521

Ion Ratio Lower Upper

65 100

67 53.9 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: VN066736.D

Acq: 23 Apr 2021 14:33

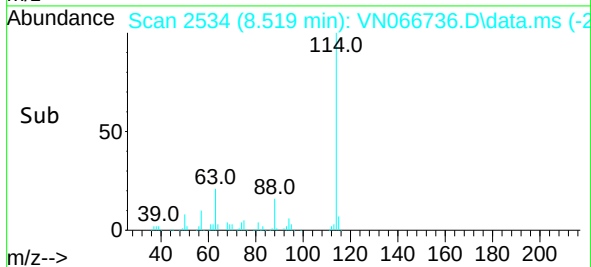
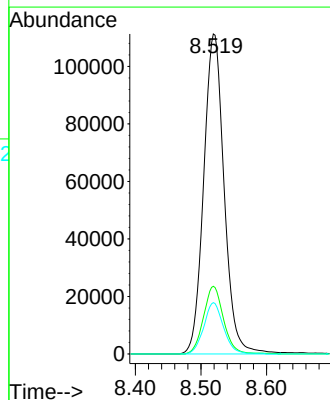
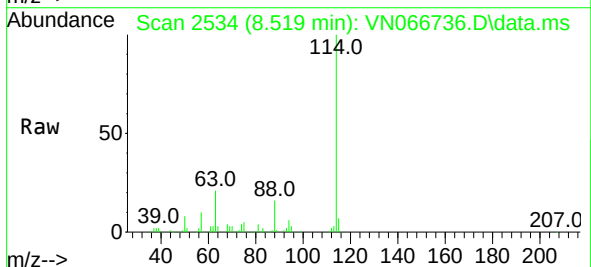
Tgt Ion: 114 Resp: 240909

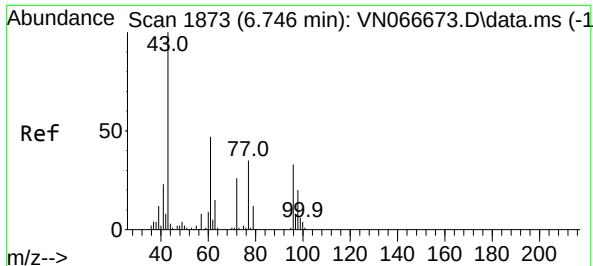
Ion Ratio Lower Upper

114 100

63 20.6 17.4 26.0

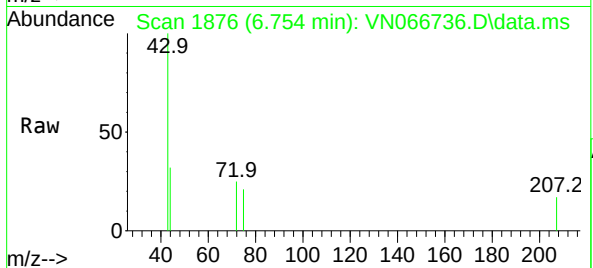
88 15.4 12.6 19.0



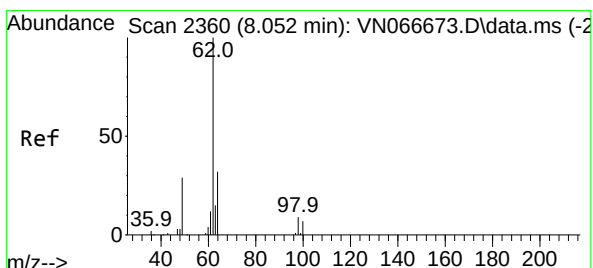
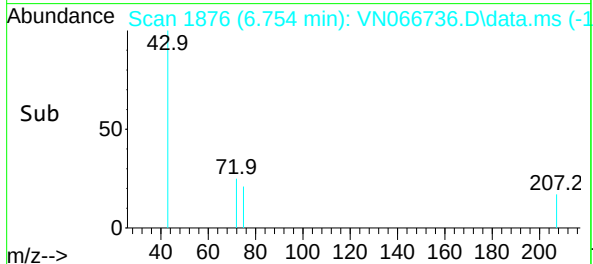
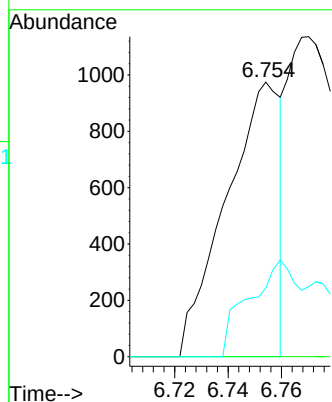


#30
2-Butanone
Concen: 0.75 ug/l
RT: 6.754 min Scan# 1876
Delta R.T. 0.008 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Instrument :
MSVOA_N
ClientSampled :

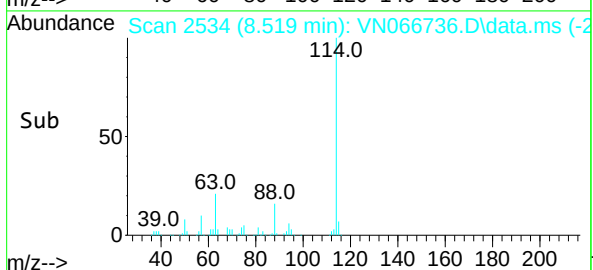
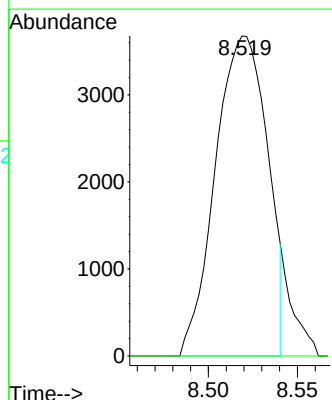
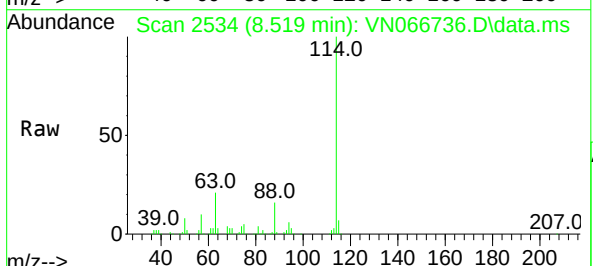


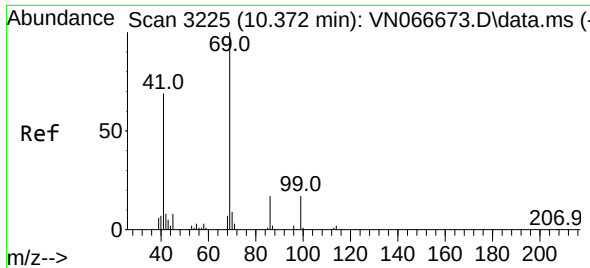
Tgt Ion: 43 Resp: 1375
Ion Ratio Lower Upper
43 100
57 0.0 6.9 10.3#
72 31.3 20.9 31.3#



#36
1,2-Dichloroethane
Concen: 1.87 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. 0.467 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

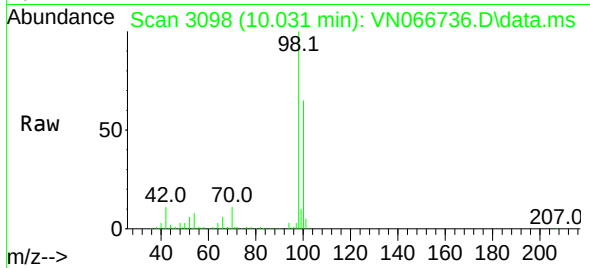
Tgt Ion: 62 Resp: 7486
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



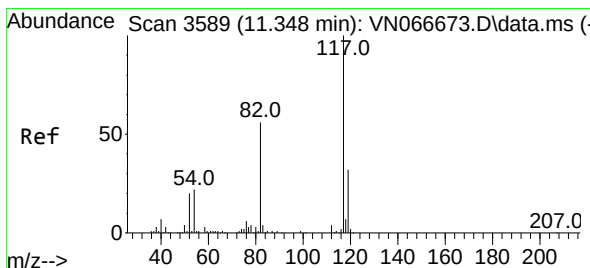
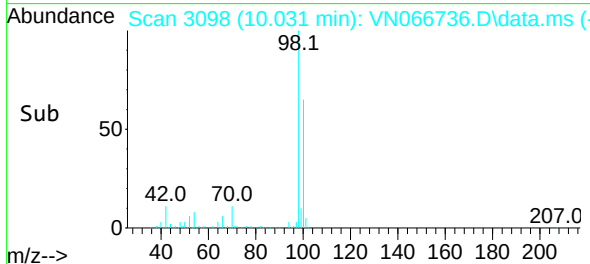
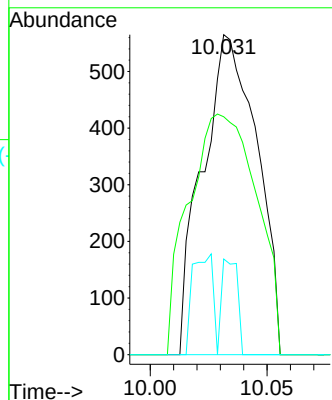


#51
Ethyl methacrylate
Concen: 0.22 ug/l
RT: 10.031 min Scan# 3098
Delta R.T. -0.341 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

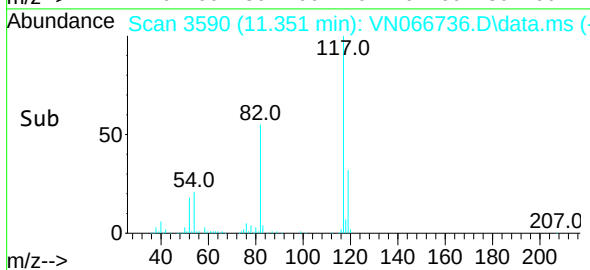
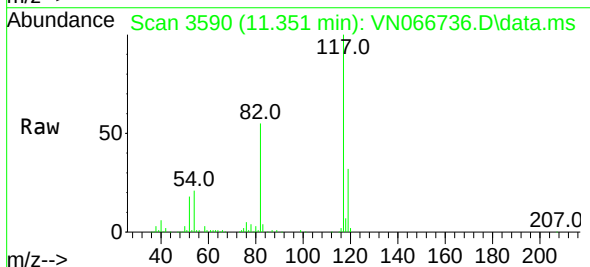
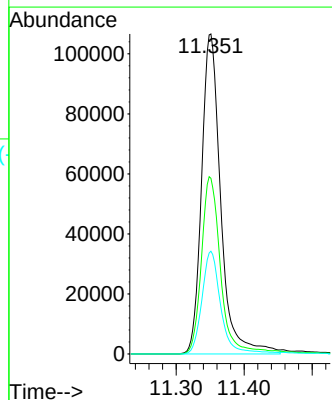


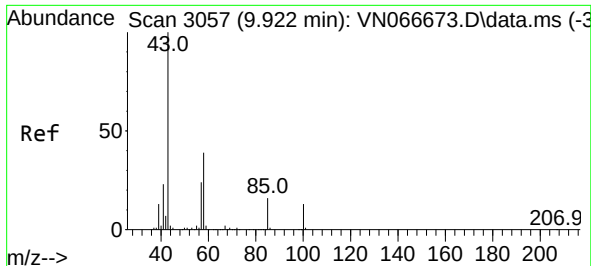
Tgt Ion: 69 Resp: 917
Ion Ratio Lower Upper
69 100
41 74.3 34.8 104.5
39 29.9 22.5 67.5



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Tgt Ion: 117 Resp: 209226
Ion Ratio Lower Upper
117 100
82 55.0 45.0 67.6
119 30.9 25.5 38.3

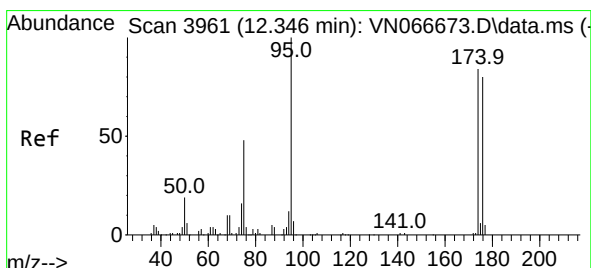
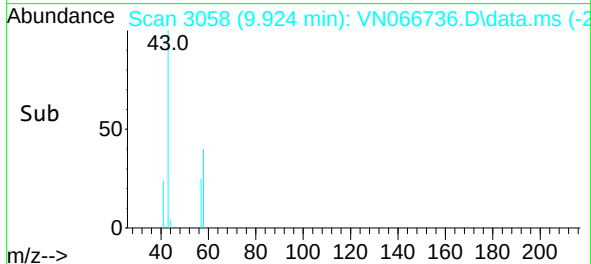
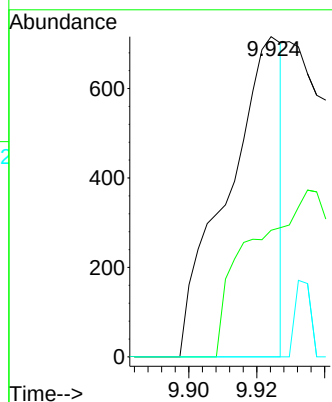
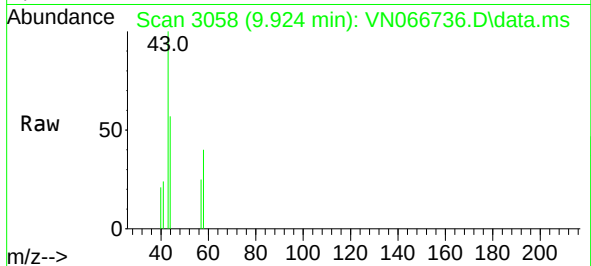




#58
4-Methyl-2-Pentanone
Concen: 0.22 ug/l
RT: 9.924 min Scan# 3058
Delta R.T. 0.002 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

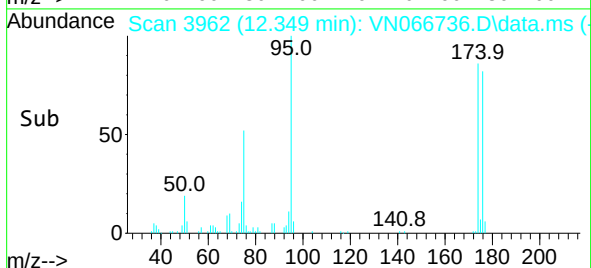
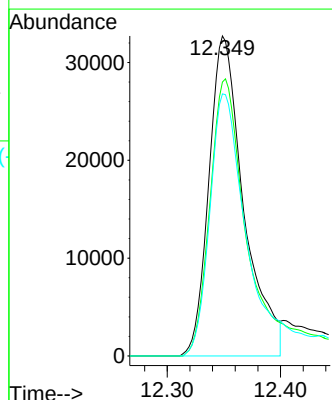
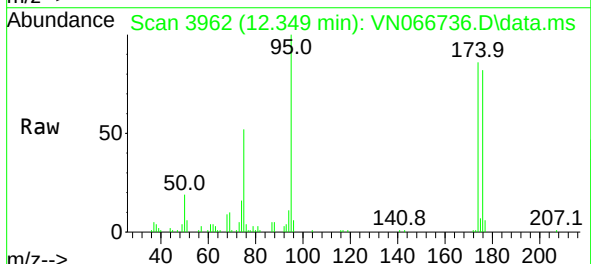
Instrument :
MSVOA_N
ClientSampleId :

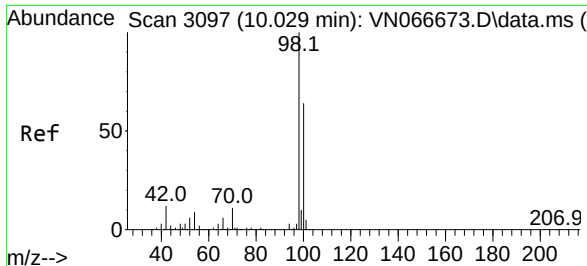
Tgt Ion: 43 Resp: 794
Ion Ratio Lower Upper
43 100
58 23.8 30.4 45.6#
85 0.0 13.8 20.8#



#60
4-Bromofluorobenzene
Concen: 21.29 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

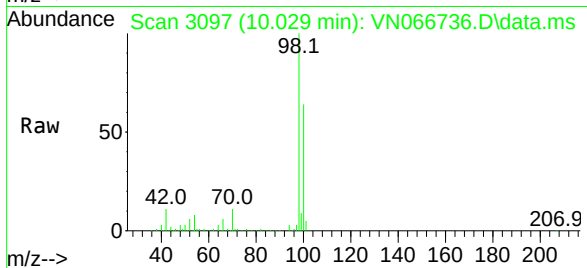
Tgt Ion: 95 Resp: 69830
Ion Ratio Lower Upper
95 100
174 96.0 68.1 102.1
176 89.7 65.4 98.0



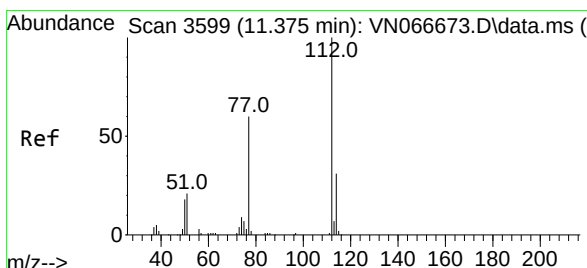
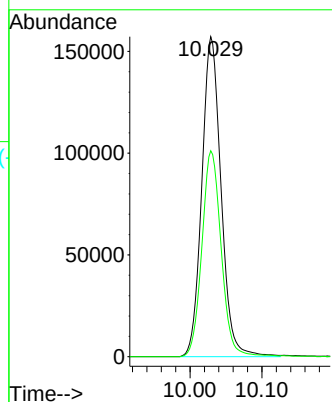
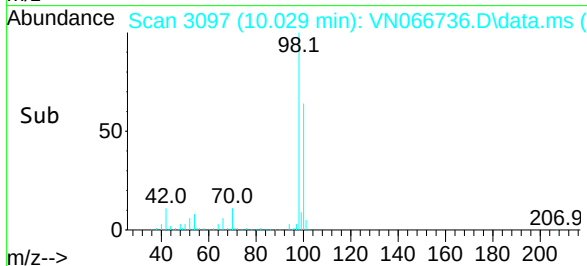


#63
Toluene-d8
Concen: 30.51 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

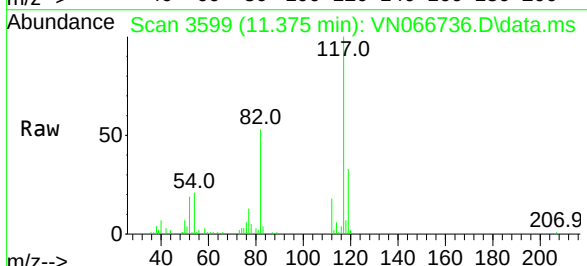
Instrument :
MSVOA_N
ClientSampled :



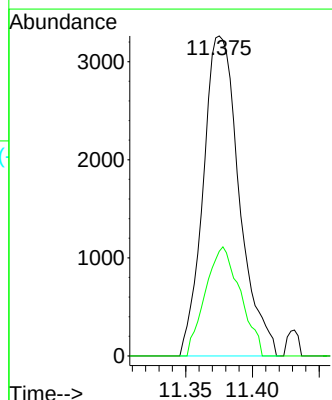
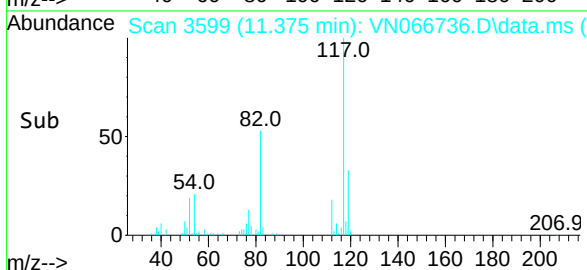
Tgt Ion: 98 Resp: 293709
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7

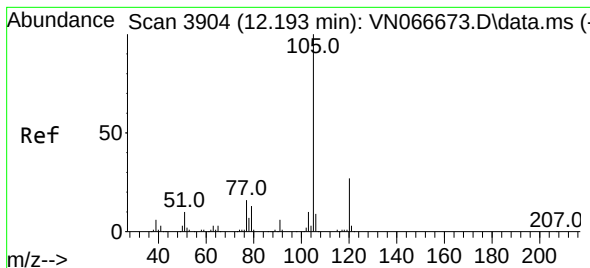


#64
Chlorobenzene
Concen: 0.86 ug/l
RT: 11.375 min Scan# 3599
Delta R.T. 0.000 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33



Tgt Ion: 112 Resp: 6117
Ion Ratio Lower Upper
112 100
114 32.7 25.6 38.4





#70

Isopropylbenzene

Concen: 0.21 ug/l

RT: 12.196 min Scan# 3905

Delta R.T. 0.003 min

Lab File: VN066736.D

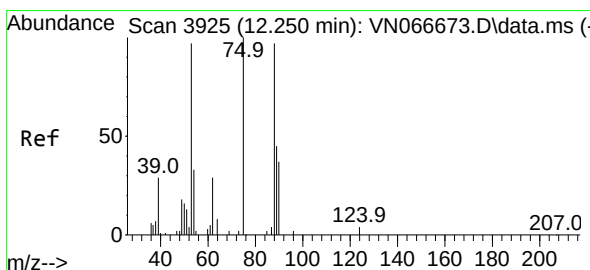
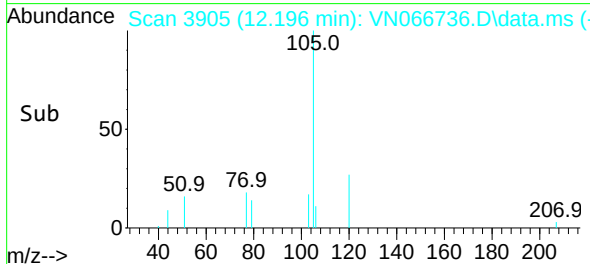
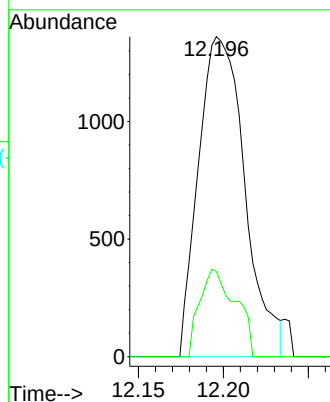
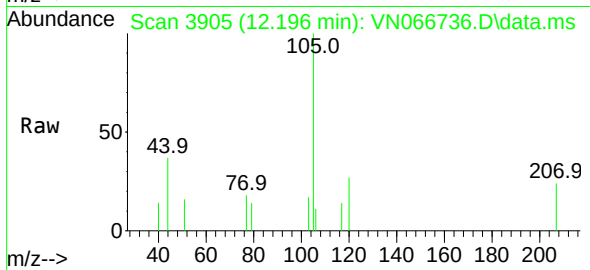
Acq: 23 Apr 2021 14:33

Tgt Ion:105 Resp: 2578

Ion Ratio Lower Upper

105 100

120 17.2 18.7 34.7#



#77

t-1,4-Dichloro-2-butene

Concen: 34.62 ug/l

RT: 12.349 min Scan# 3962

Delta R.T. 0.099 min

Lab File: VN066736.D

Acq: 23 Apr 2021 14:33

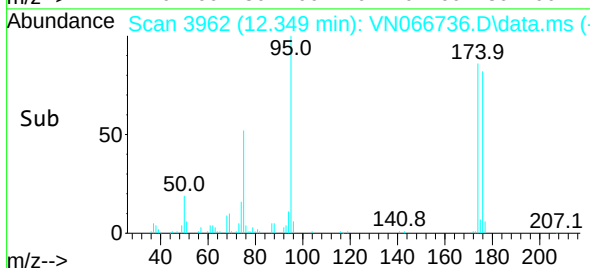
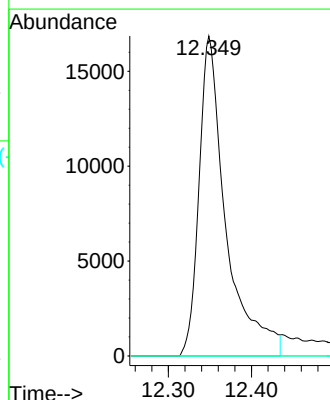
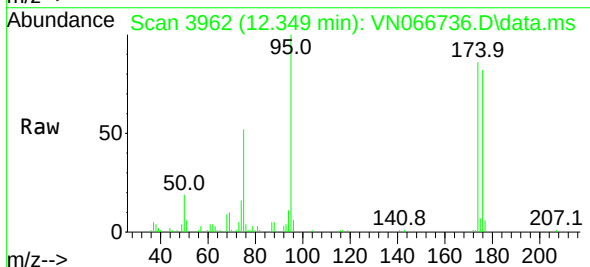
Tgt Ion: 75 Resp: 37921

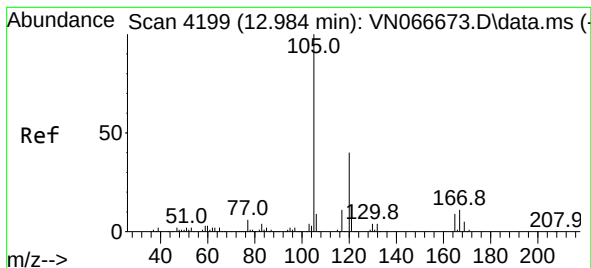
Ion Ratio Lower Upper

75 100

53 0.0 49.6 149.0#

89 0.0 22.9 68.7#

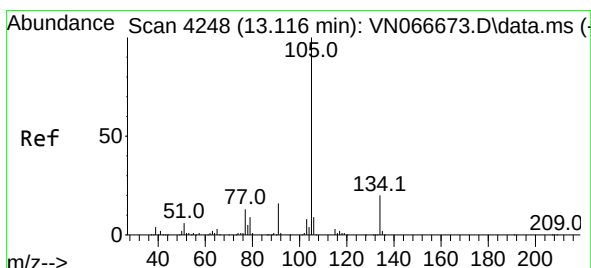
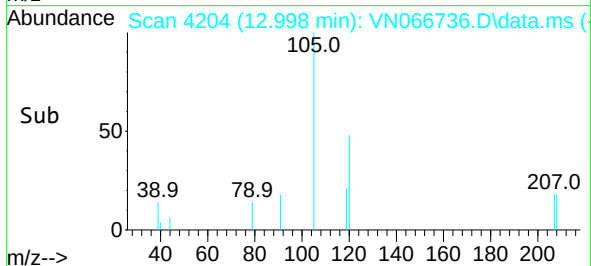
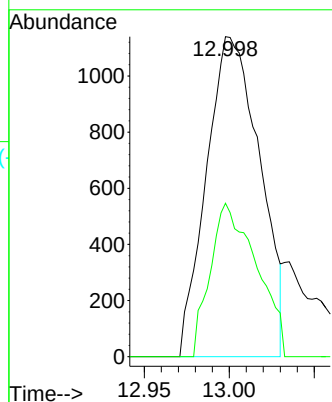
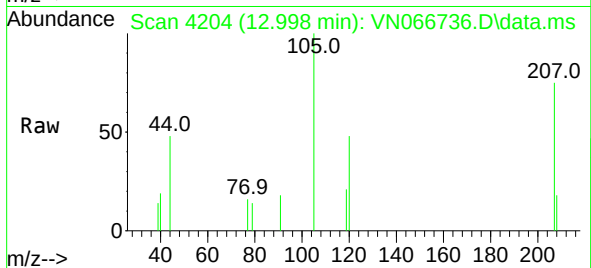




#80
1,2,4-Trimethylbenzene
Concen: 0.25 ug/l
RT: 12.998 min Scan# 4204
Delta R.T. 0.014 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

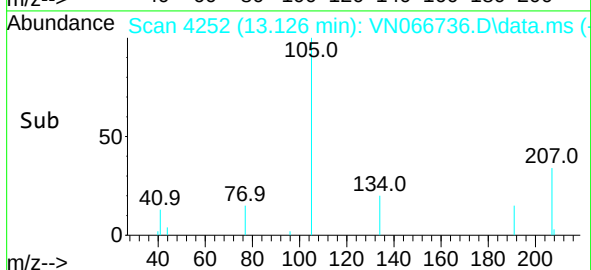
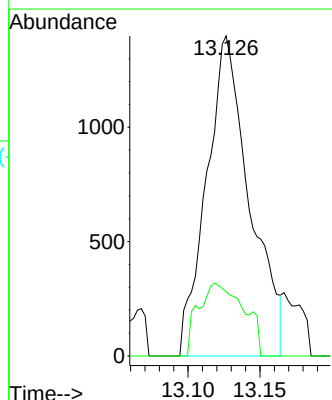
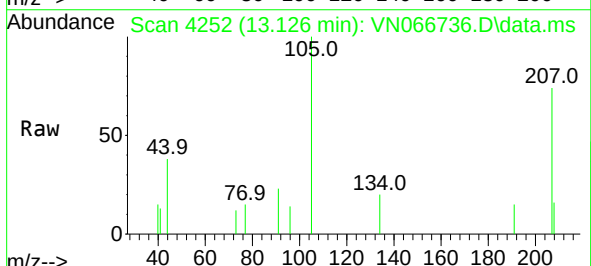
Instrument :
MSVOA_N
ClientSampled :

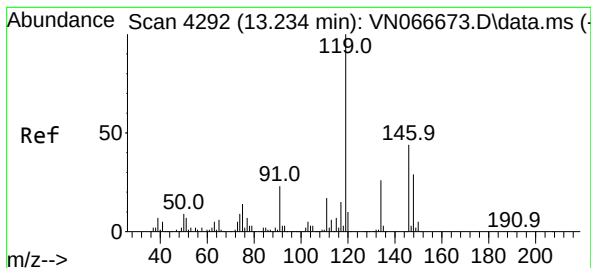
Tgt Ion:105 Resp: 2492
Ion Ratio Lower Upper
105 100
120 41.7 0.0 90.6



#81
sec-Butylbenzene
Concen: 0.26 ug/l
RT: 13.126 min Scan# 4252
Delta R.T. 0.010 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Tgt Ion:105 Resp: 2919
Ion Ratio Lower Upper
105 100
134 10.7 0.0 40.0

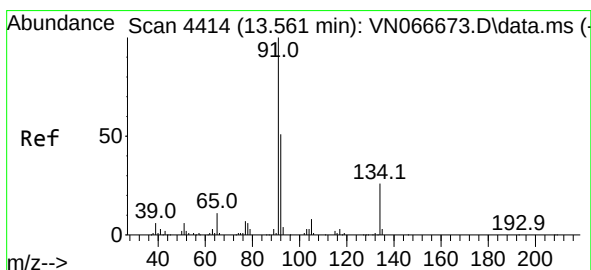
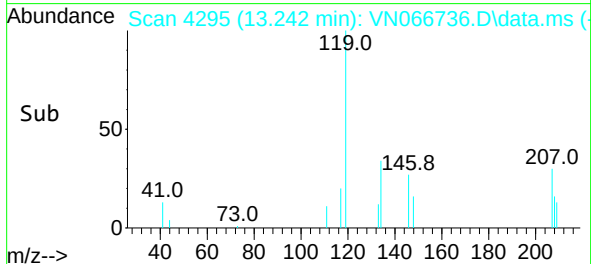
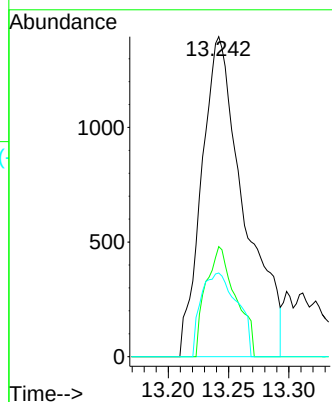
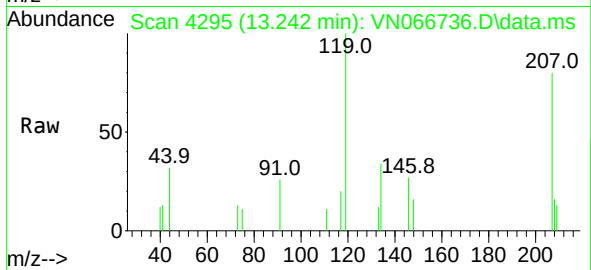




#82
p-Isopropyltoluene
Concen: 0.35 ug/l
RT: 13.242 min Scan# 4295
Delta R.T. 0.008 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

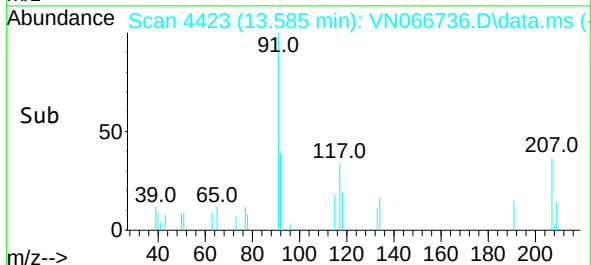
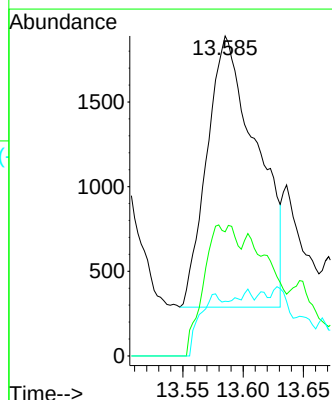
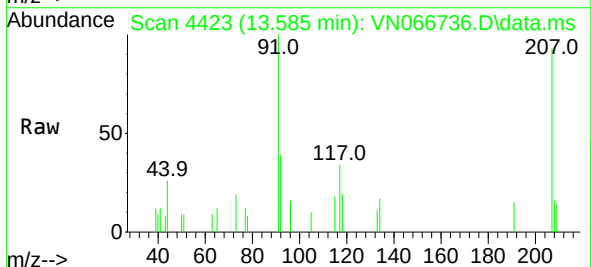
Instrument :
MSVOA_N
ClientSampled :

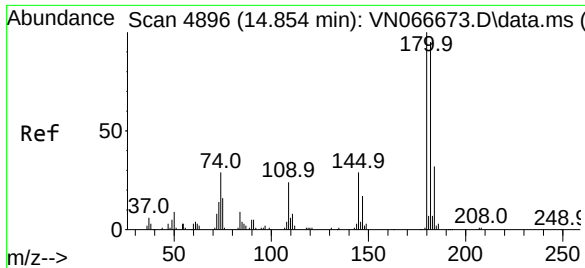
Tgt Ion:119 Resp: 3408
Ion Ratio Lower Upper
119 100
134 24.3 0.0 53.4
91 22.2 0.0 47.6



#85
n-Butylbenzene
Concen: 0.57 ug/l
RT: 13.585 min Scan# 4423
Delta R.T. 0.024 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Tgt Ion: 91 Resp: 4595
Ion Ratio Lower Upper
91 100
92 21.4 0.0 102.6
134 9.9 0.0 49.0

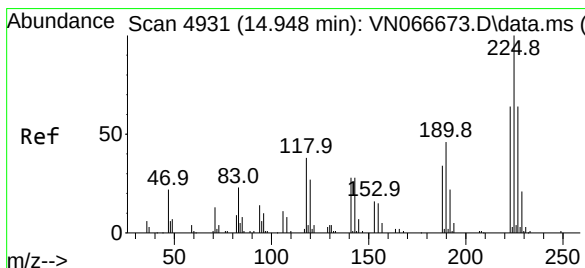
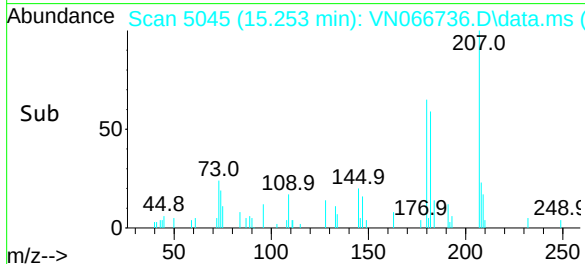
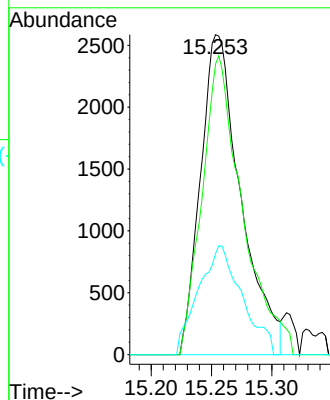
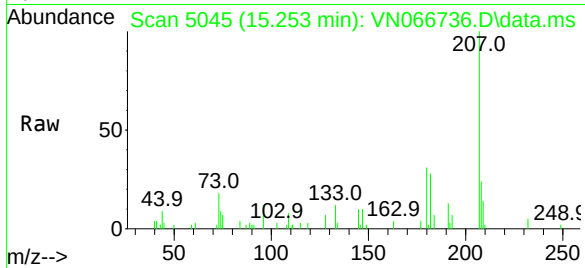




#89
1,2,4-Trichlorobenzene
Concen: 2.08 ug/l
RT: 15.253 min Scan# 5045
Delta R.T. 0.399 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

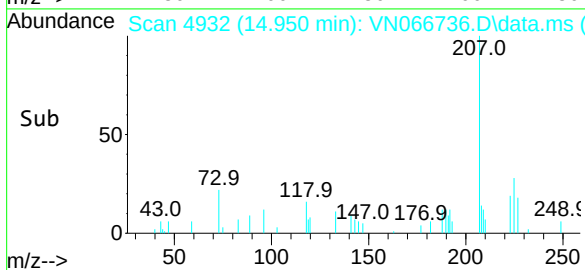
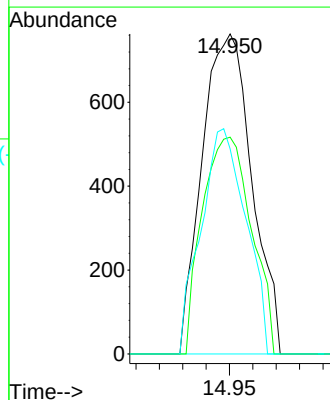
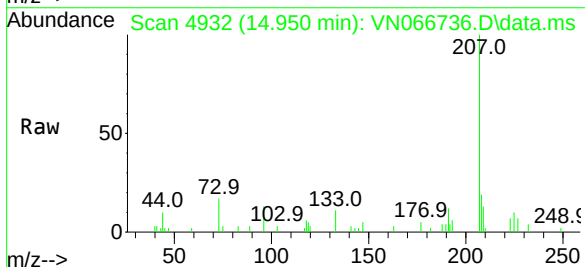
Instrument :
MSVOA_N
ClientSampled :

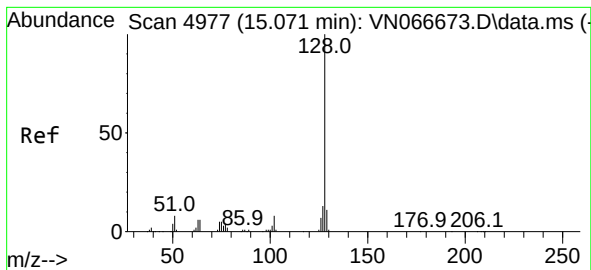
Tgt Ion:180 Resp: 5983
Ion Ratio Lower Upper
180 100
182 93.6 74.3 111.5
145 34.8 23.4 35.0



#90
Hexachlorobutadiene
Concen: 0.70 ug/l
RT: 14.950 min Scan# 4932
Delta R.T. 0.002 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Tgt Ion:225 Resp: 1131
Ion Ratio Lower Upper
225 100
223 66.9 0.0 124.6
227 63.7 0.0 126.6

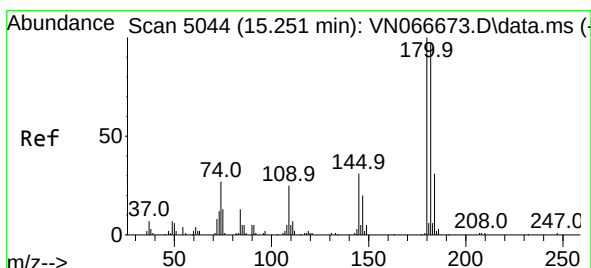
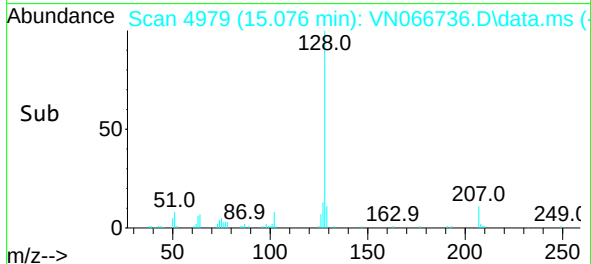
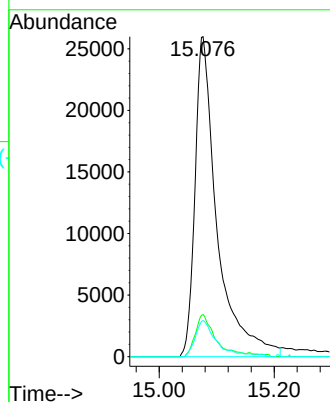
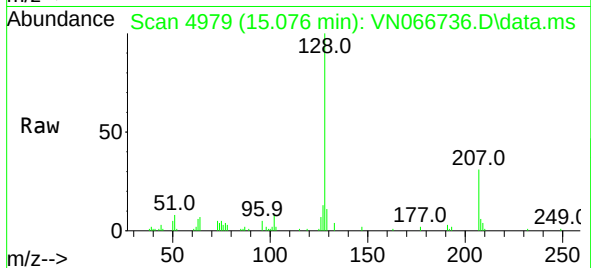




#91
Naphthalene
Concen: 10.03 ug/l
RT: 15.076 min Scan# 4979
Delta R.T. 0.005 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 69408
Ion Ratio Lower Upper
128 100
127 10.9 10.2 15.2
129 9.6 8.6 13.0



#92
1,2,3-Trichlorobenzene
Concen: 2.20 ug/l
RT: 15.253 min Scan# 5045
Delta R.T. 0.002 min
Lab File: VN066736.D
Acq: 23 Apr 2021 14:33

Tgt Ion:180 Resp: 5983
Ion Ratio Lower Upper
180 100
182 93.6 0.0 190.0
145 34.8 0.0 60.8

