

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061121\
 Data File : VN067306.D
 Acq On : 11 Jun 2021 23:59
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Manual Integrations
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Quant Time: Jun 12 09:16:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N061121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 12 09:13:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	69083	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	427342	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	377673	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	224978	30.989	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.300%
60) 4-Bromofluorobenzene	12.733	95	207032	28.394	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.633%
63) Toluene-d8	10.443	98	543267	30.162	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.533%
Target Compounds						
					Qvalue	
47) n-amyl Acetate	12.395	43	16346	1.305	ug/l	96
58) 4-Methyl-2-Pentanone	10.336	43	14586	1.757	ug/l	95
59) 2-Hexanone	11.092	43	26667	4.442	ug/l #	93
61) Tetrachloroethene	10.982	164	2067	0.472	ug/l	85
62) Toluene	10.507	91	6101m	0.270	ug/l	
64) Chlorobenzene	11.773	112	5858	0.441	ug/l	94
66) Ethyl Benzene	11.846	91	10494	0.400	ug/l	100
67) m/p-Xylenes	11.958	106	7732	0.835	ug/l	99
68) o-Xylene	12.280	106	3143	0.340	ug/l	91
69) Styrene	12.296	104	8059	0.519	ug/l	98
70) Isopropylbenzene	12.578	105	9533	0.400	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.833	83	4945	0.683	ug/l	91
72) 1,2,3-Trichloropropane	12.886	75	5884m	0.815	ug/l	
73) Bromobenzene	12.862	156	3624	0.731	ug/l	93
74) n-propylbenzene	12.921	91	19742	0.690	ug/l	95
75) 2-Chlorotoluene	13.007	91	9155	0.505	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	9950	0.493	ug/l	98
78) 4-Chlorotoluene	13.106	91	15754	0.874	ug/l	98
79) tert-butylbenzene	13.323	119	7367	0.455	ug/l	95
80) 1,2,4-Trimethylbenzene	13.369	105	14651	0.736	ug/l #	71
81) sec-Butylbenzene	13.503	105	18528	0.823	ug/l	95
82) p-Isopropyltoluene	13.618	119	17823	0.982	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	10280	1.151	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	12245m	1.366	ug/l	
85) n-Butylbenzene	13.946	91	32603	1.932	ug/l	96
87) 1,2-Dichlorobenzene	13.991	146	11018	1.264	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	5033	2.743	ug/l	99
89) 1,2,4-Trichlorobenzene	15.268	180	22574	5.092	ug/l	99
90) Hexachlorobutadiene	15.370	225	8721	3.705	ug/l	91
91) Naphthalene	15.507	128	155759	10.465	ug/l	99
92) 1,2,3-Trichlorobenzene	15.705	180	30574	7.091	ug/l	97

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

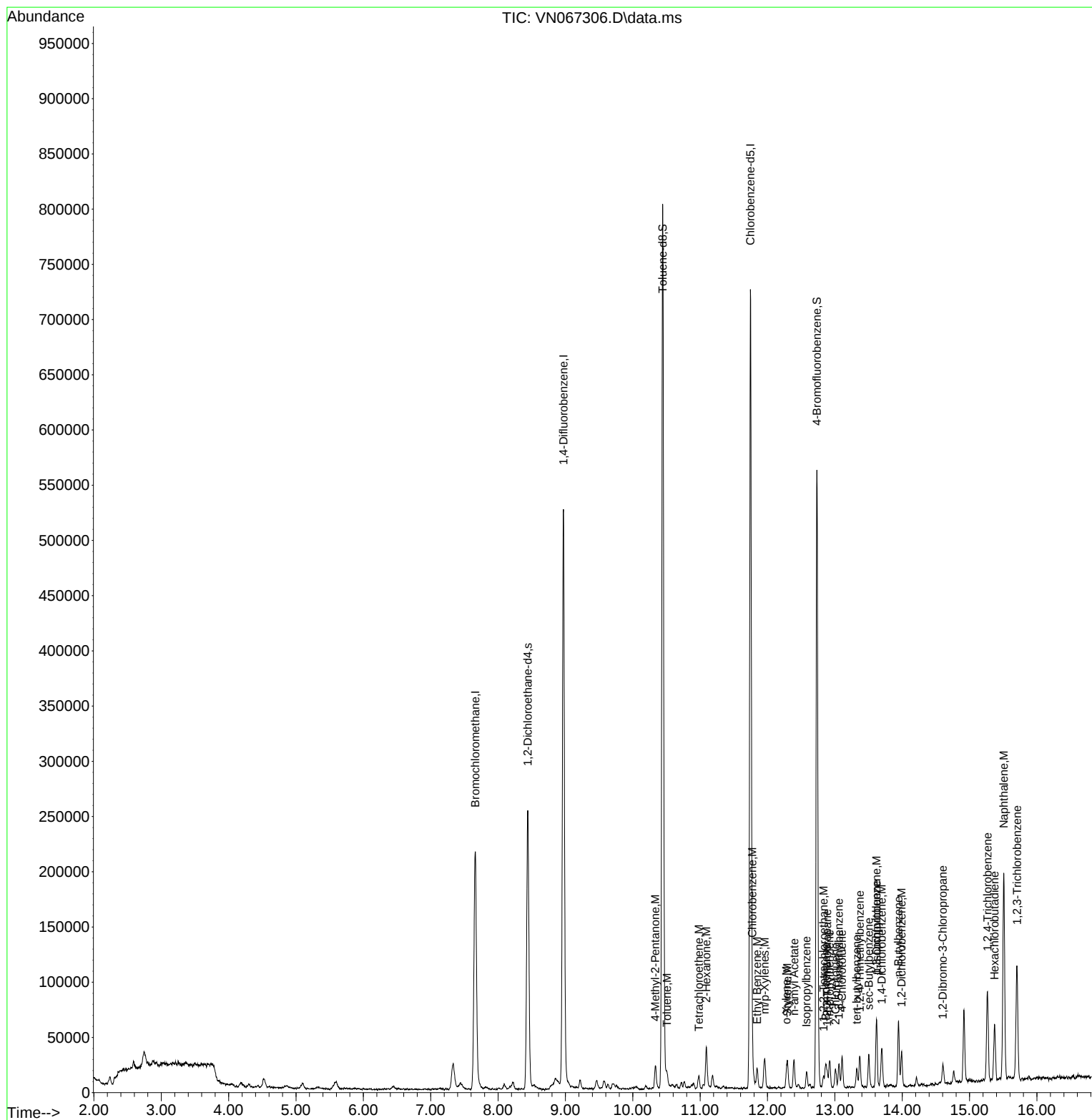
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Data File : VN067306.D
Acq On : 11 Jun 2021 23:59
Operator : JC/MD
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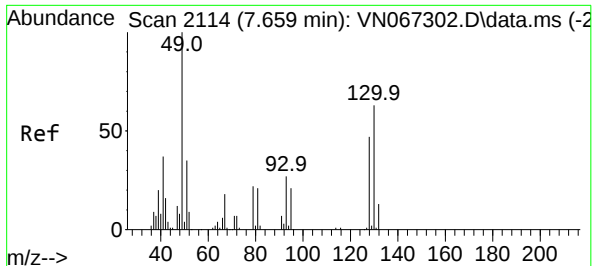
Instrument :
MSVOA_N
ClientSampled :
IBLK

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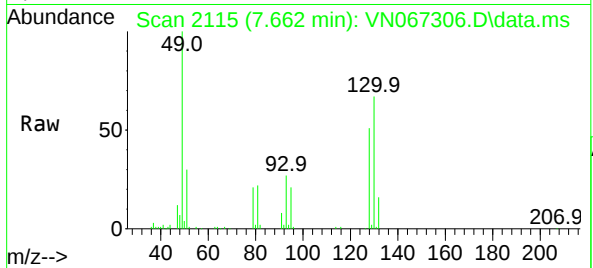
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Quant Time: Jun 12 09:16:24 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N061121W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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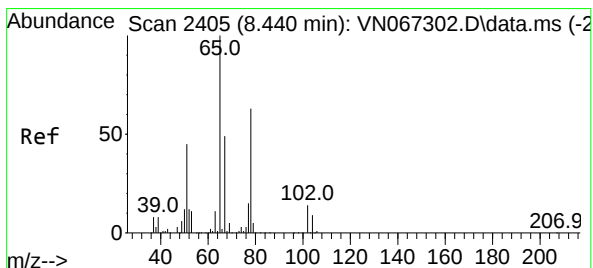
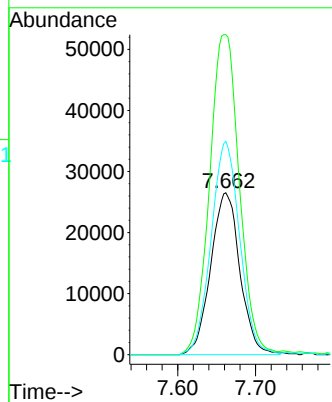
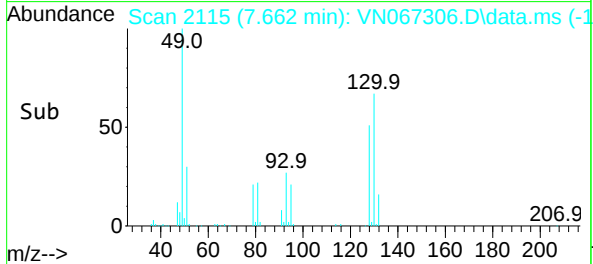




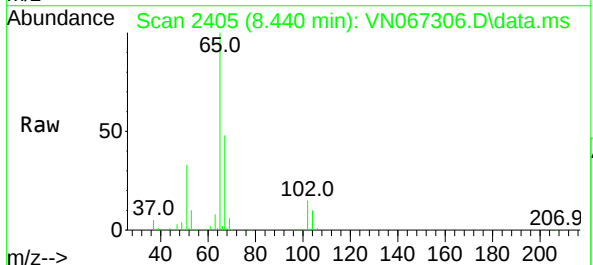
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



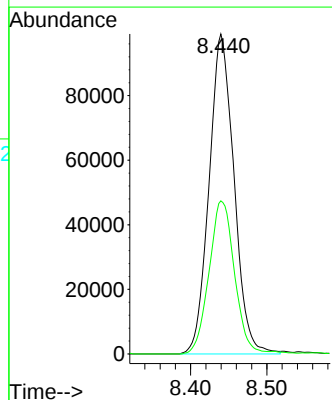
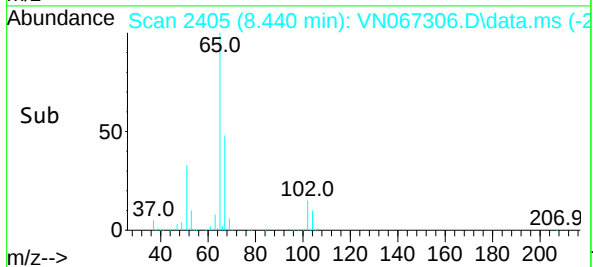
Tgt Ion:128 Resp: 69083
Ion Ratio Lower Upper
128 100
49 201.2 0.0 517.5
130 129.3 0.0 325.8



#27
1,2-Dichloroethane-d4
Concen: 30.989 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



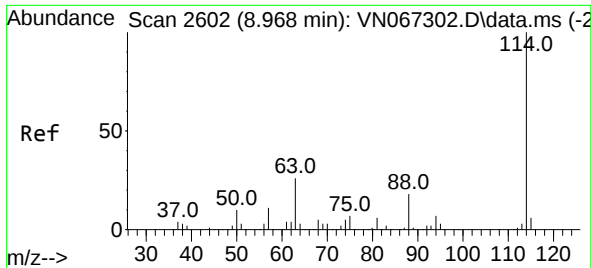
Tgt Ion: 65 Resp: 224978
Ion Ratio Lower Upper
65 100
67 48.6 39.8 59.8



Instrument :
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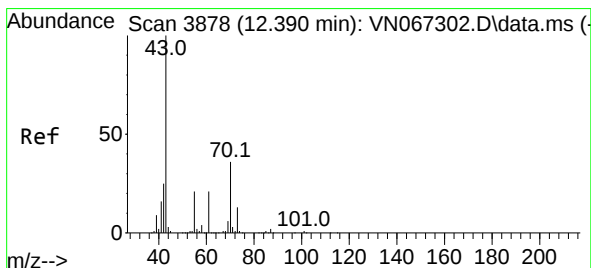
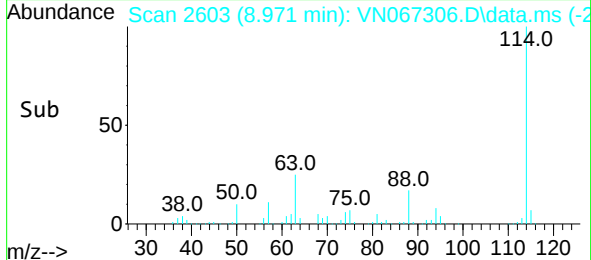
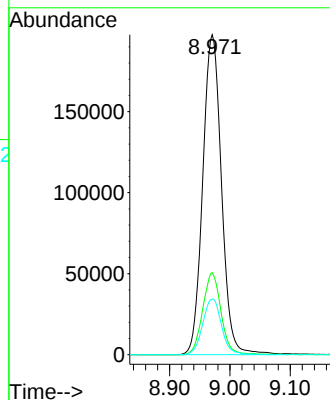
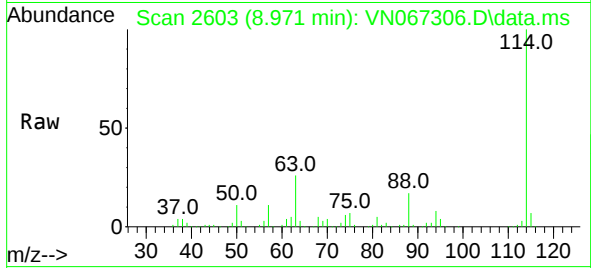
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN067306.D
 Acq: 11 Jun 2021 23:59

Tgt Ion: 114 Resp: 427342
 Ion Ratio Lower Upper
 114 100
 63 24.9 20.3 30.5
 88 17.4 14.6 22.0

Instrument :
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 IBLK

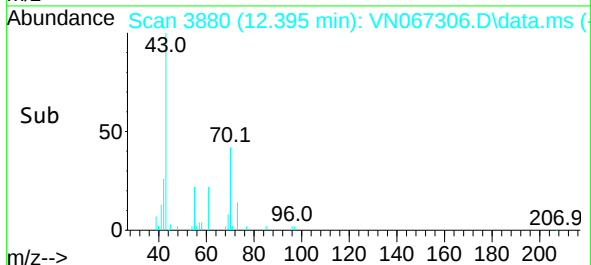
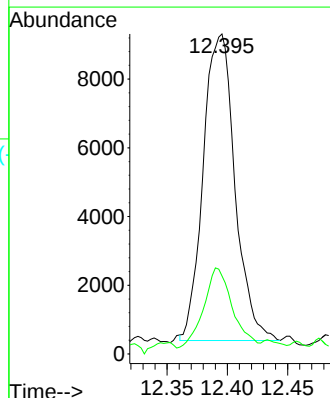
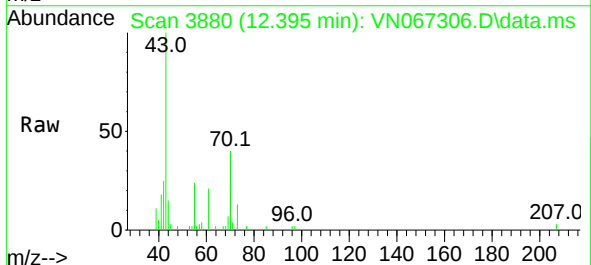
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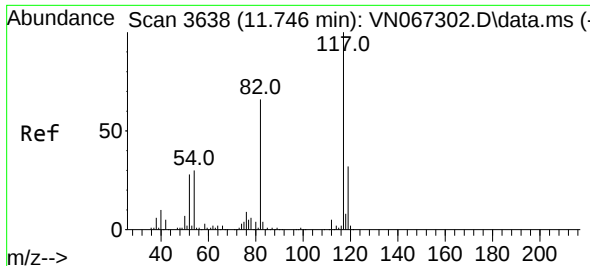
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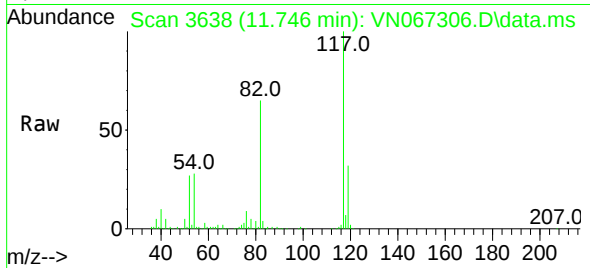
#47
 n-amy1 Acetate
 Concen: 1.305 ug/l
 RT: 12.395 min Scan# 3880
 Delta R.T. 0.005 min
 Lab File: VN067306.D
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Tgt Ion: 43 Resp: 16346
 Ion Ratio Lower Upper
 43 100
 55 23.8 17.6 26.4

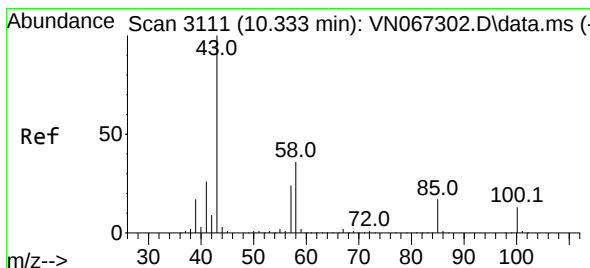
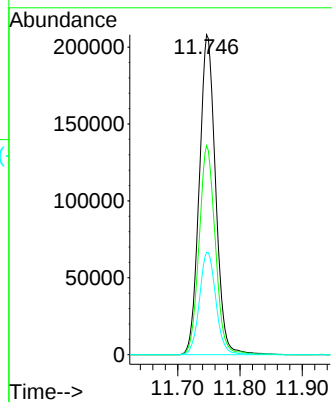
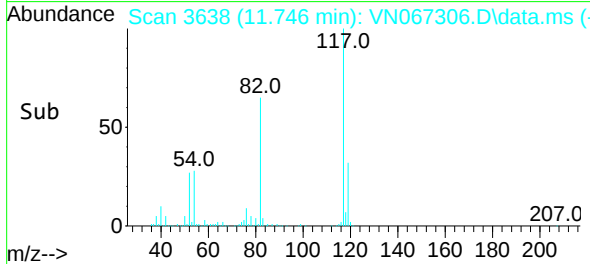




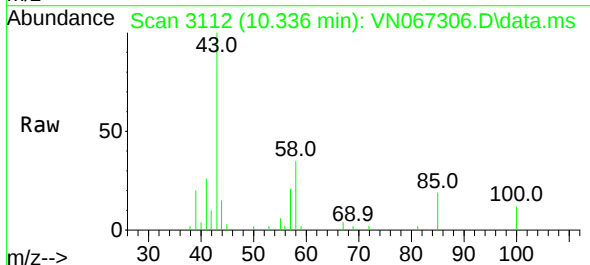
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



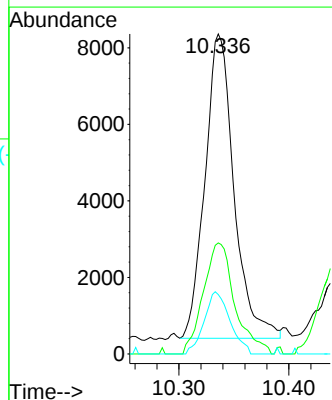
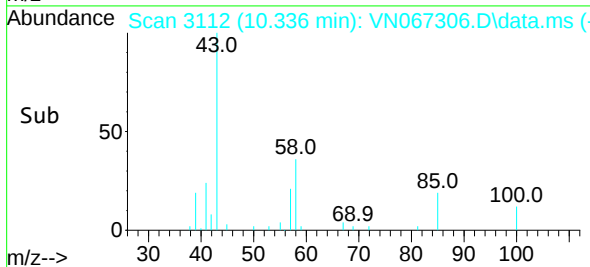
Tgt Ion: 117 Resp: 377673
Ion Ratio Lower Upper
117 100
82 64.5 52.5 78.7
119 32.3 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 1.757 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



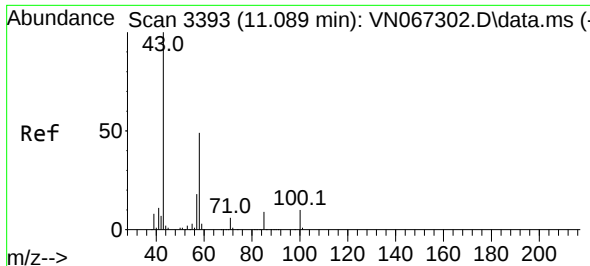
Tgt Ion: 43 Resp: 14586
Ion Ratio Lower Upper
43 100
58 39.6 29.0 43.4
85 18.2 13.2 19.8



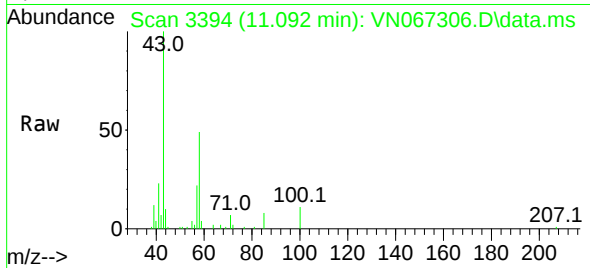
Instrument :
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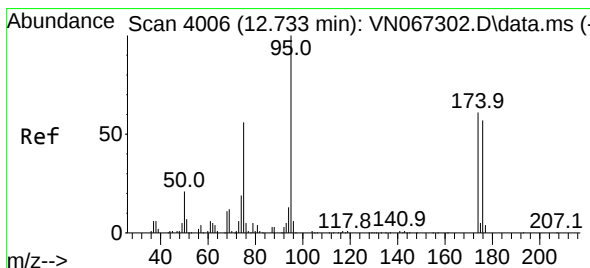
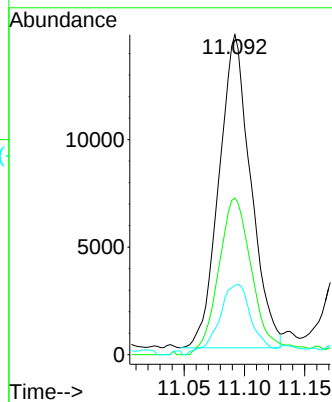
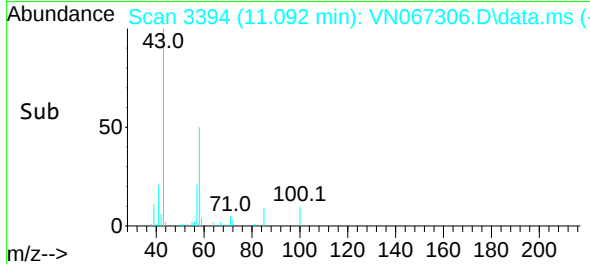
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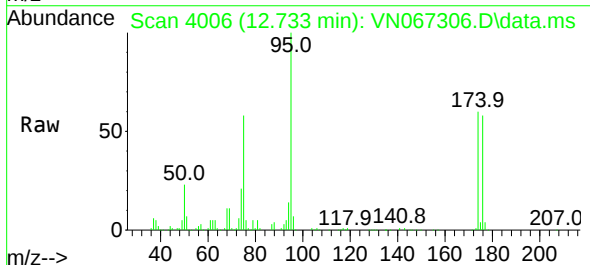
#59
2-Hexanone
Concen: 4.442 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



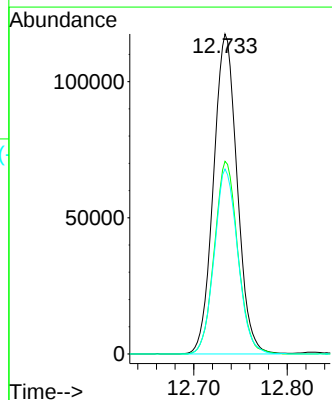
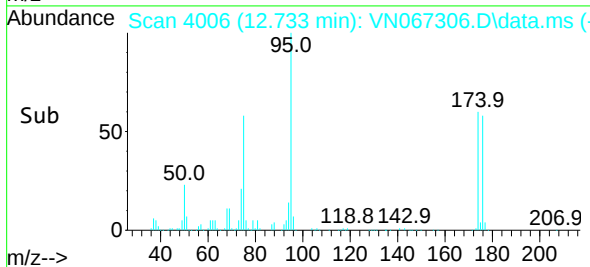
Tgt Ion: 43 Resp: 26667
Ion Ratio Lower Upper
43 100
58 52.5 39.4 59.0
57 23.1 14.4 21.6#



#60
4-Bromofluorobenzene
Concen: 28.394 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



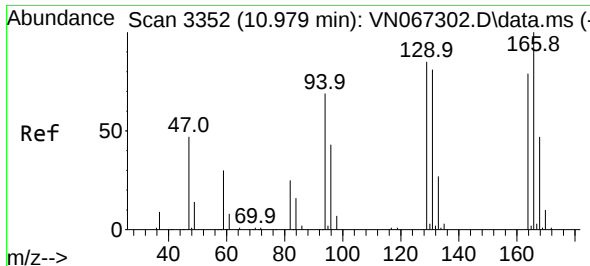
Tgt Ion: 95 Resp: 207032
Ion Ratio Lower Upper
95 100
174 59.7 47.7 71.5
176 57.5 45.7 68.5



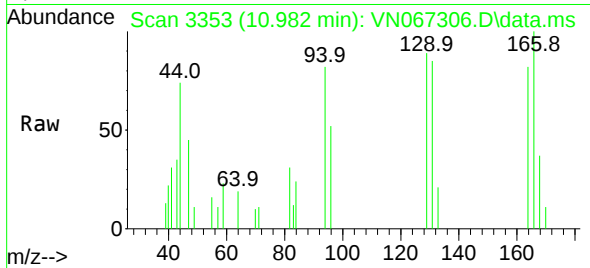
Instrument :
MSVOA_N
ClientSampled :
IBLK

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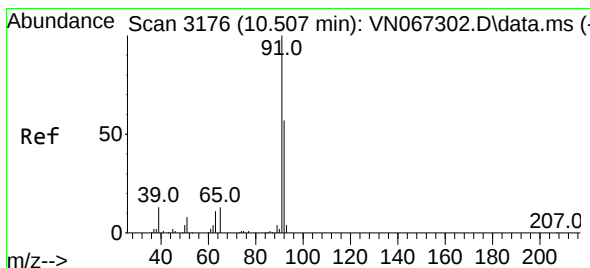
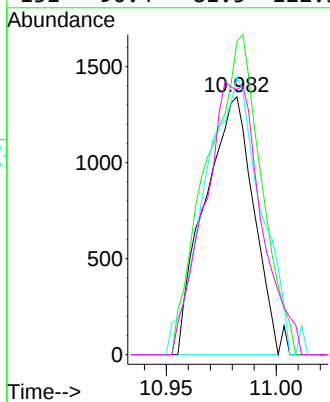
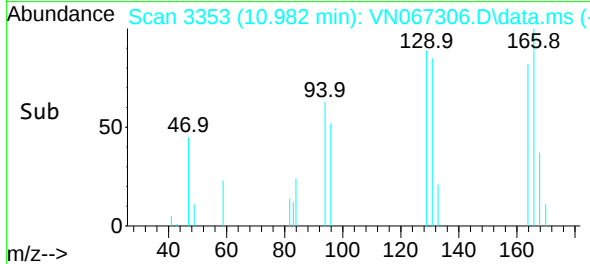
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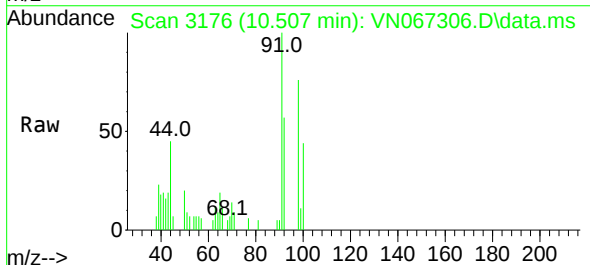
#61
Tetrachloroethene
Concen: 0.472 ug/l
RT: 10.982 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



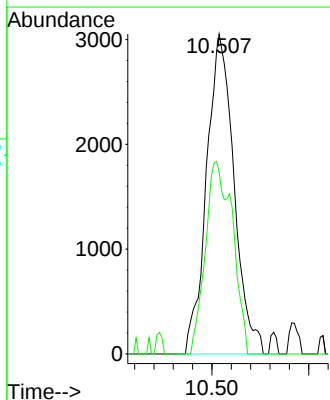
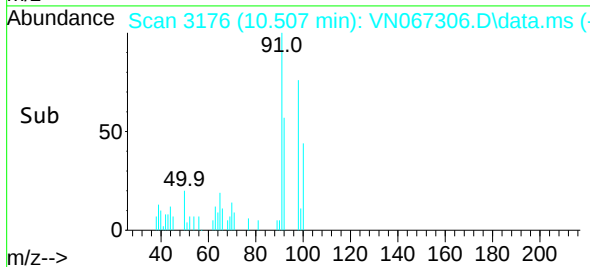
Tgt Ion:164 Resp: 2067
Ion Ratio Lower Upper
164 100
166 104.1 101.0 151.4
129 94.0 85.5 128.3
131 90.4 81.5 122.3



#62
Toluene
Concen: 0.270 ug/l m
RT: 10.507 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



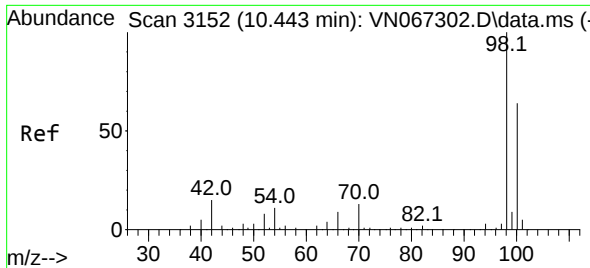
Tgt Ion: 91 Resp: 6101
Ion Ratio Lower Upper
91 100
92 1.4 46.1 69.1#



Instrument :
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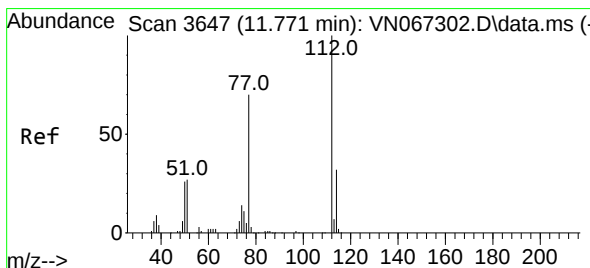
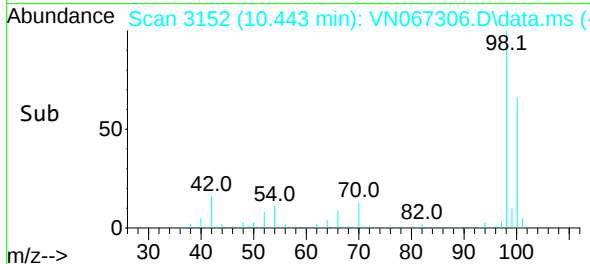
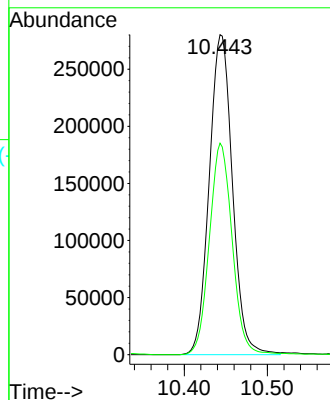
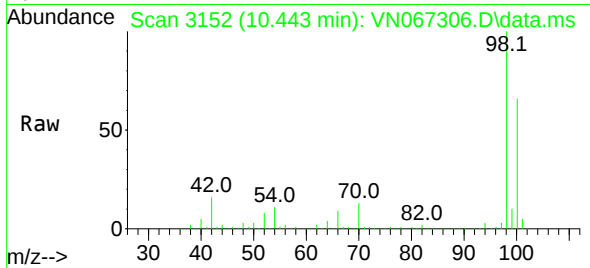
#63
Toluene-d8
Concen: 30.162 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN067306.D
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Tgt Ion: 98 Resp: 543267
Ion Ratio Lower Upper
98 100
100 64.9 51.2 76.8

Instrument :
MSVOA_N
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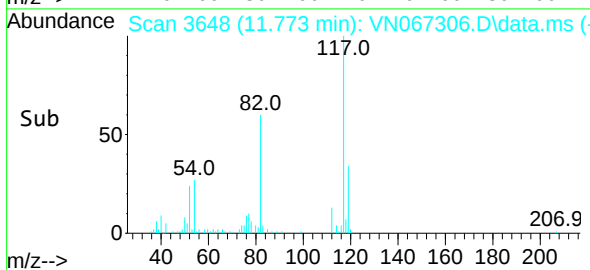
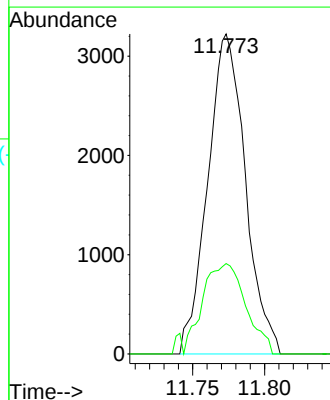
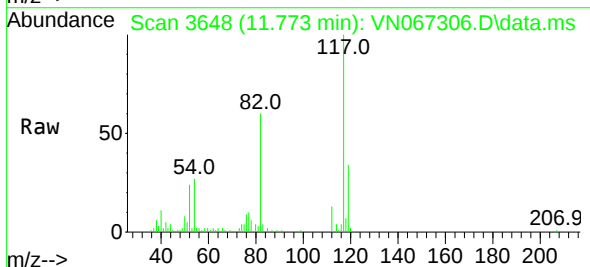
Manual Integrations
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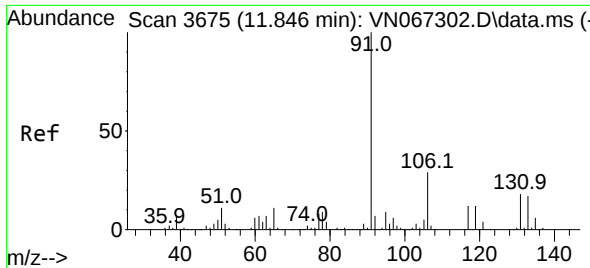
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#64
Chlorobenzene
Concen: 0.441 ug/l
RT: 11.773 min Scan# 3648
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion: 112 Resp: 5858
Ion Ratio Lower Upper
112 100
114 28.2 25.4 38.0





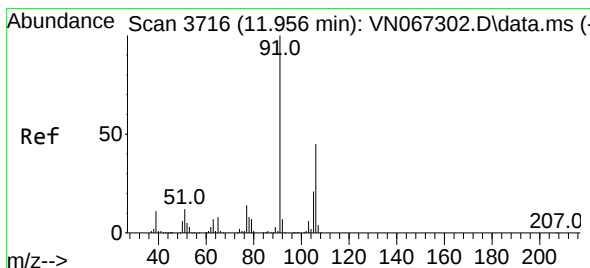
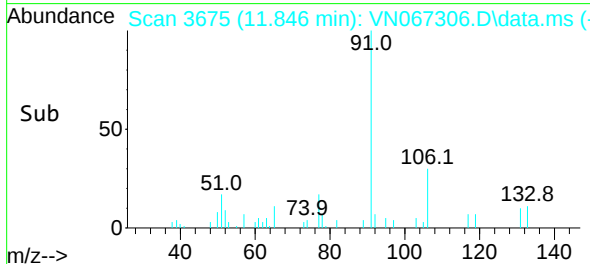
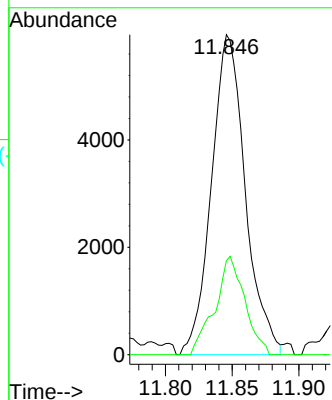
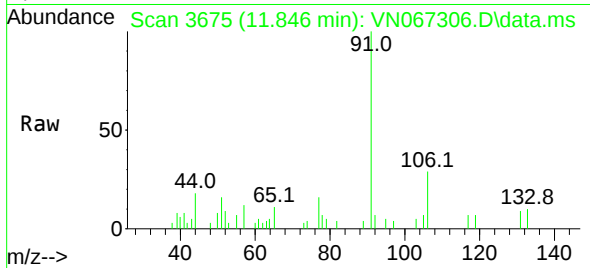
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Ethyl Benzene
Concen: 0.400 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion: 91 Resp: 10494
Ion Ratio Lower Upper
91 100
106 29.4 23.4 35.0

Instrument :
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ClientSampled :
IBLK

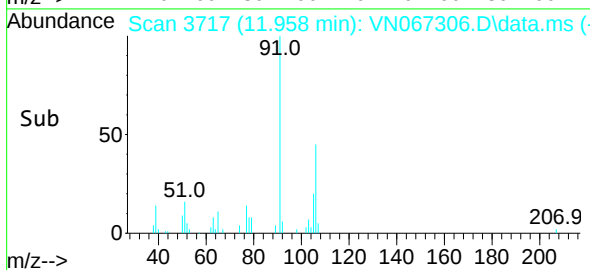
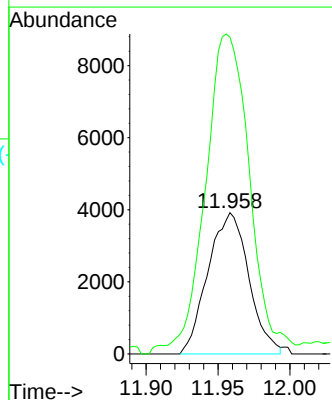
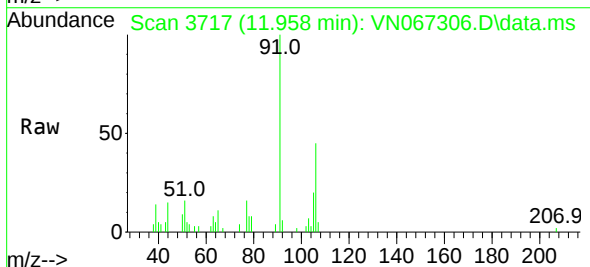
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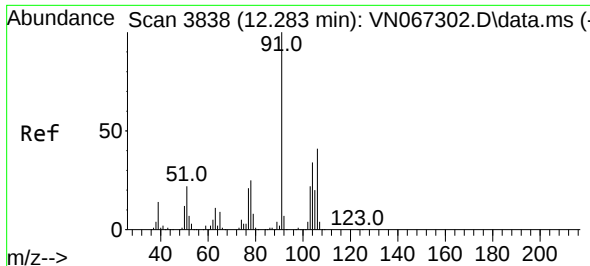
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#67
m/p-Xylenes
Concen: 0.835 ug/l
RT: 11.958 min Scan# 3717
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion: 106 Resp: 7732
Ion Ratio Lower Upper
106 100
91 225.5 181.3 271.9





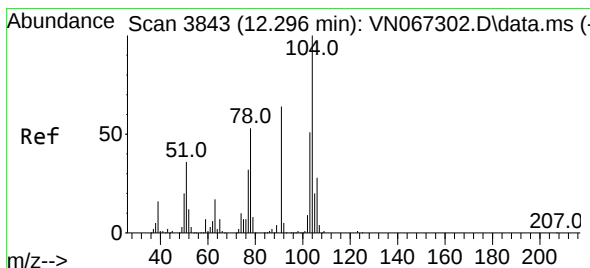
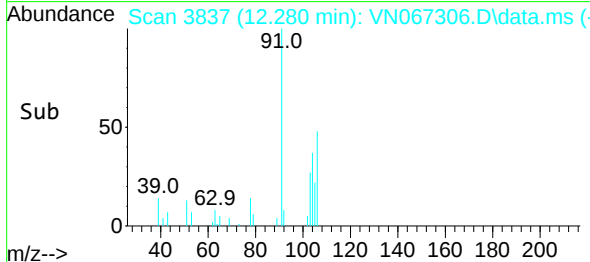
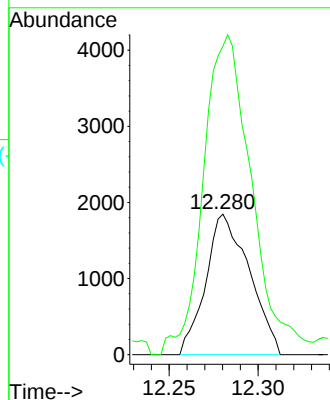
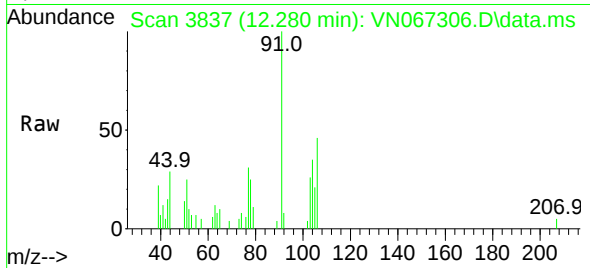
#68
o-Xylene
Concen: 0.340 ug/l
RT: 12.280 min Scan# 3837
Delta R.T. -0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion:106 Resp: 3143
Ion Ratio Lower Upper
106 100
91 224.8 120.0 360.0

Instrument :
MSVOA_N
ClientSampled :
IBLK

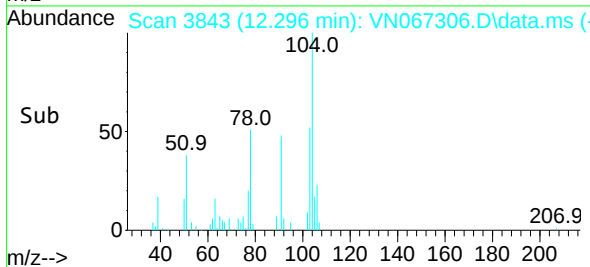
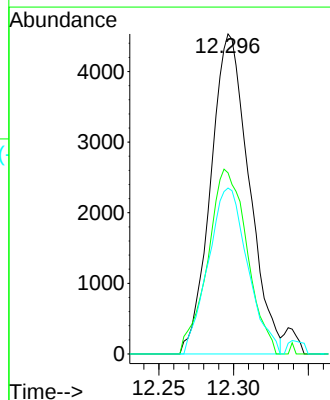
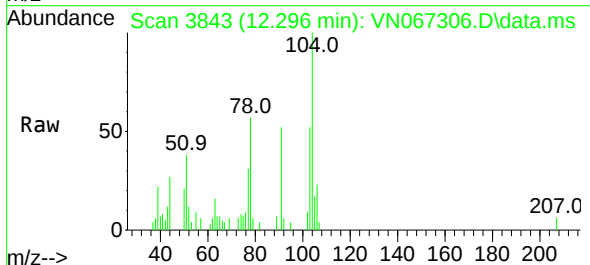
Manual Integrations
APPROVED

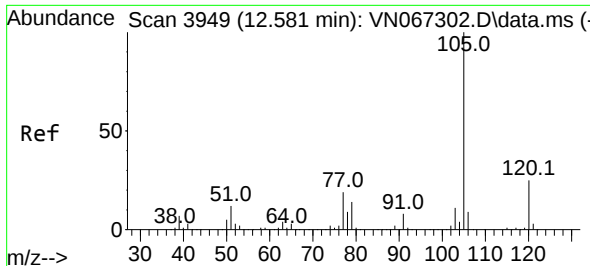
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#69
Styrene
Concen: 0.519 ug/l
RT: 12.296 min Scan# 3843
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion:104 Resp: 8059
Ion Ratio Lower Upper
104 100
78 59.1 48.2 72.2
103 53.4 44.5 66.7





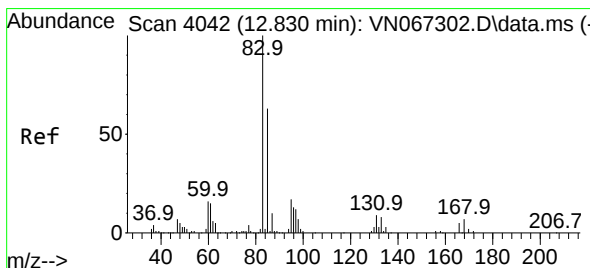
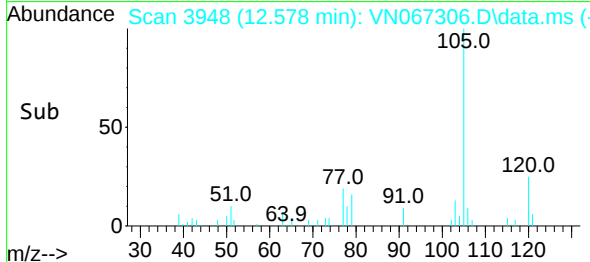
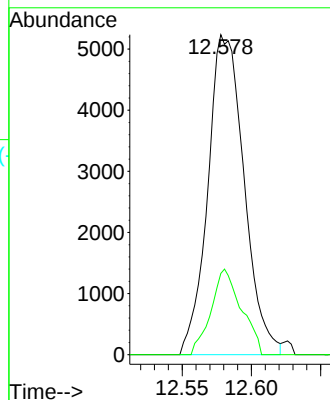
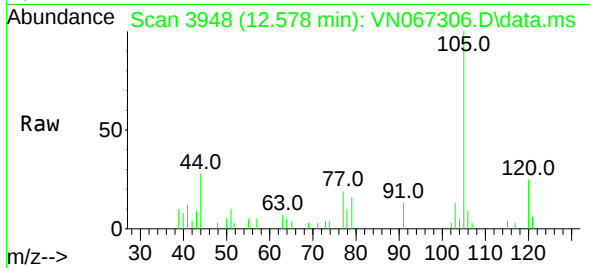
#70
Isopropylbenzene
Concen: 0.400 ug/l
RT: 12.578 min Scan# 3948
Delta R.T. -0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion: 105 Resp: 9533
Ion Ratio Lower Upper
105 100
120 22.4 17.6 32.6

Instrument :
MSVOA_N
ClientSampled :
IBLK

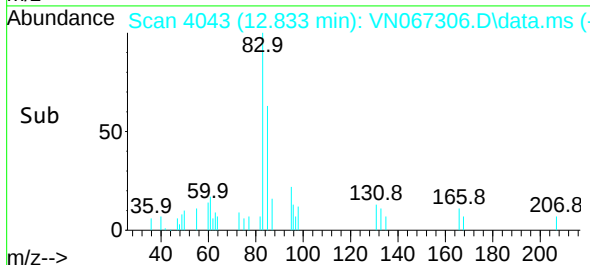
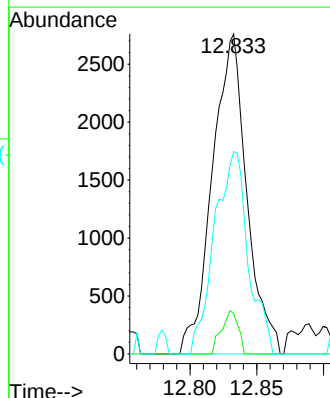
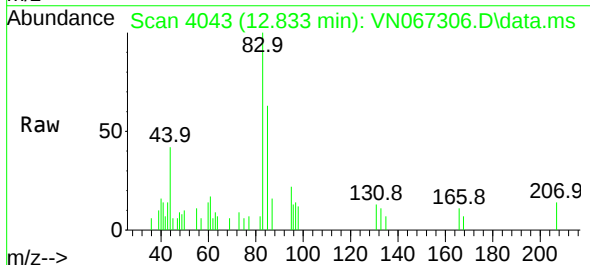
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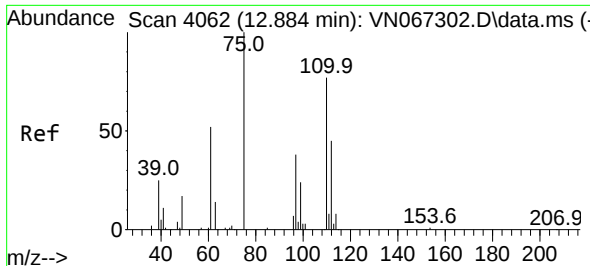
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#71
1,1,2,2-Tetrachloroethane
Concen: 0.683 ug/l
RT: 12.833 min Scan# 4043
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

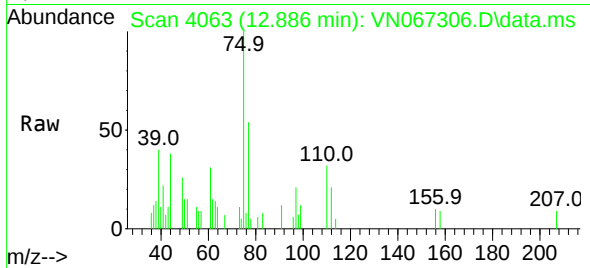
Tgt Ion: 83 Resp: 4945
Ion Ratio Lower Upper
83 100
131 6.5 4.7 14.0
85 57.6 32.2 96.6





#72
1,2,3-Trichloropropane
Concen: 0.815 ug/l m
RT: 12.886 min Scan# 4063
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

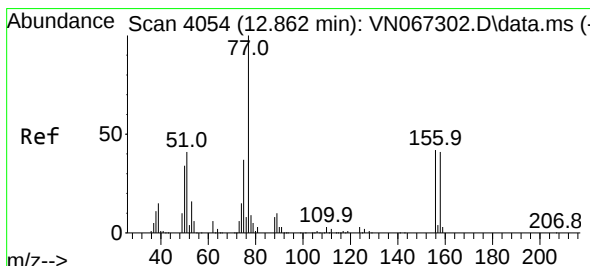
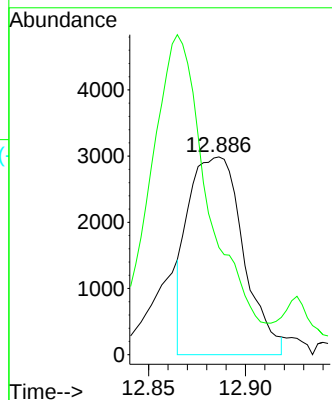
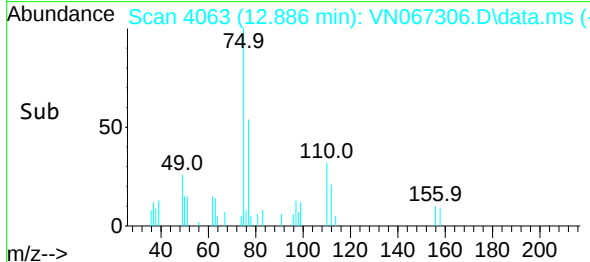
Instrument :
MSVOA_N
ClientSampled :
IBLK



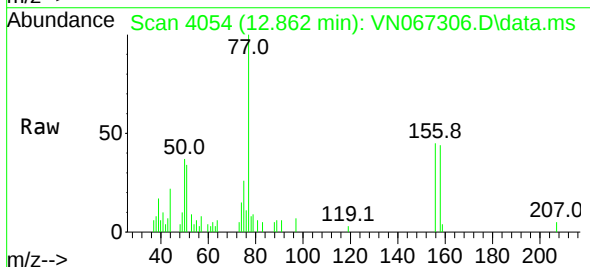
Tgt Ion: 75 Resp: 5884
Ion Ratio Lower Upper
75 100
77 178.5 0.0 374.2

Manual Integrations
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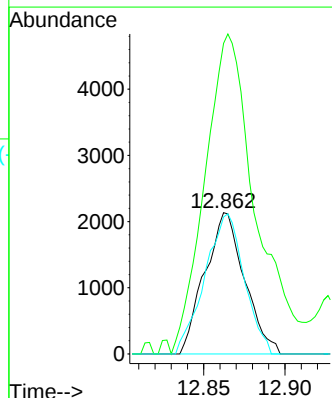
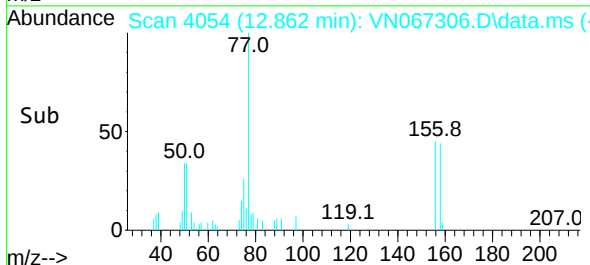
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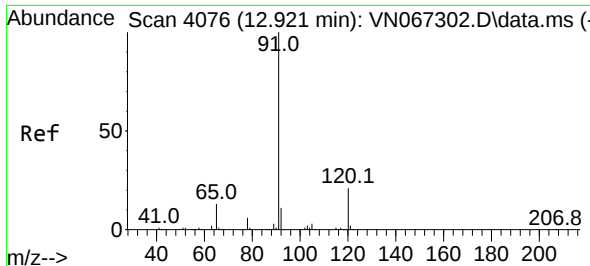


#73
Bromobenzene
Concen: 0.731 ug/l
RT: 12.862 min Scan# 4054
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

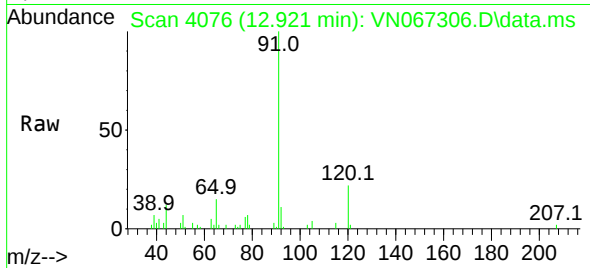


Tgt Ion: 156 Resp: 3624
Ion Ratio Lower Upper
156 100
77 289.9 0.0 548.0
158 98.4 0.0 194.0

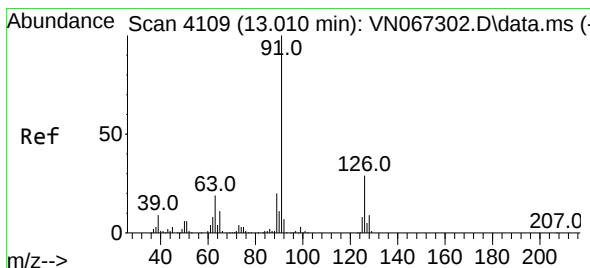
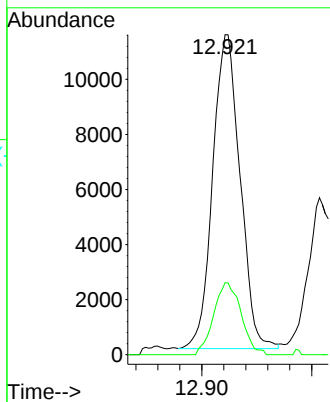
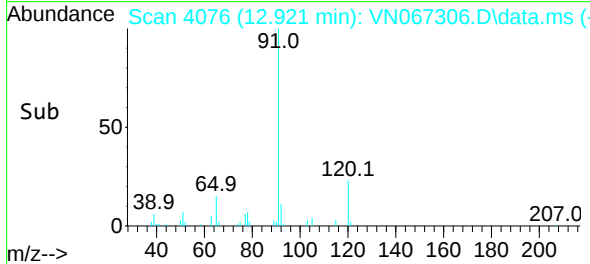




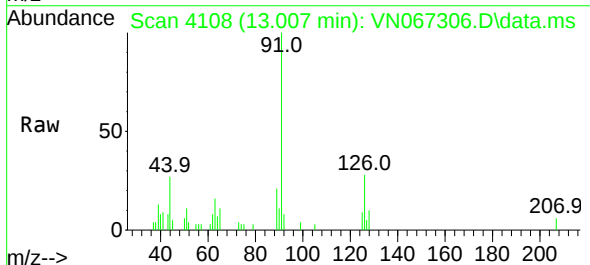
#74
n-propylbenzene
Concen: 0.690 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



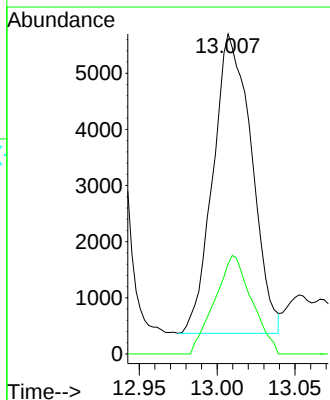
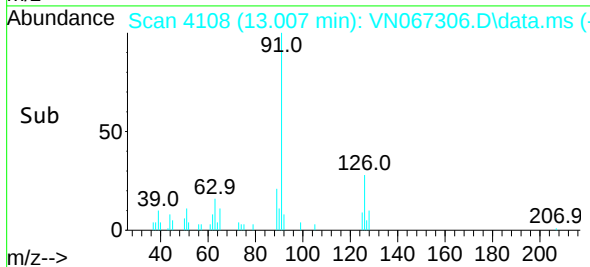
Tgt Ion: 91 Resp: 19742
Ion Ratio Lower Upper
91 100
120 22.6 0.0 41.0



#75
2-Chlorotoluene
Concen: 0.505 ug/l
RT: 13.007 min Scan# 4108
Delta R.T. -0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



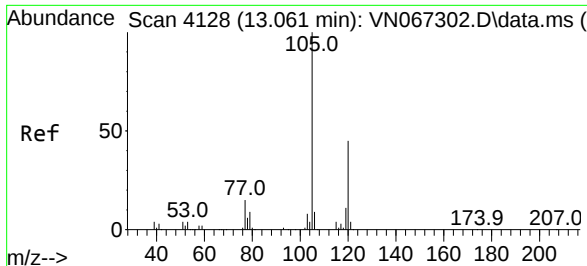
Tgt Ion: 91 Resp: 9155
Ion Ratio Lower Upper
91 100
126 31.7 0.0 0.0#



Instrument :
MSVOA_N
ClientSampled :
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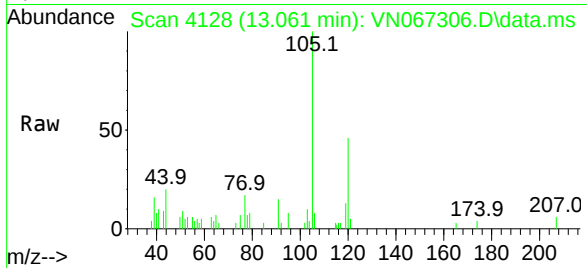
Manual Integrations
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#76
1,3,5-Trimethylbenzene
Concen: 0.493 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

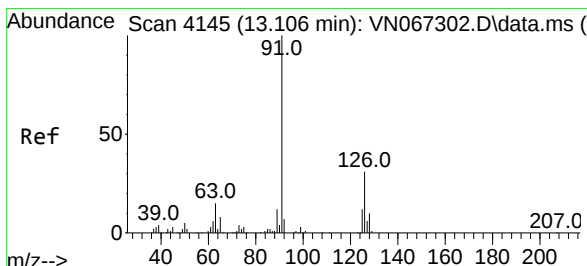
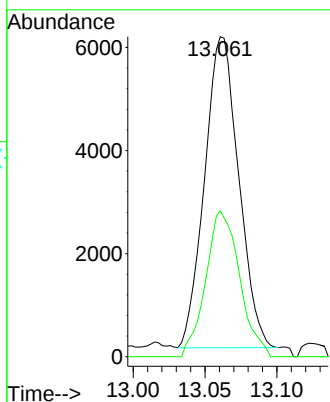
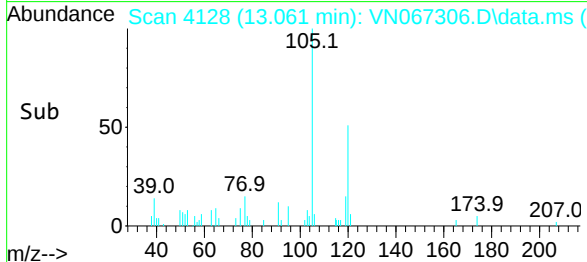
Instrument :
MSVOA_N
ClientSampled :
IBLK



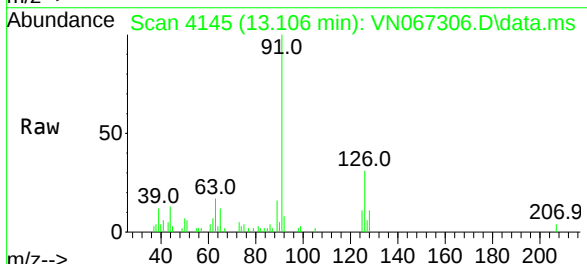
Tgt Ion: 105 Resp: 9950
Ion Ratio Lower Upper
105 100
120 46.4 0.0 90.2

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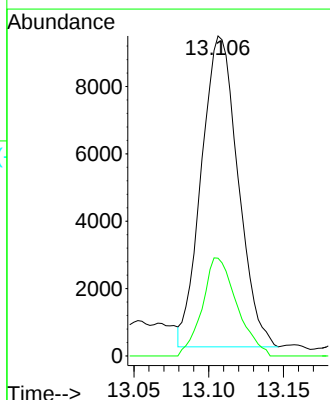
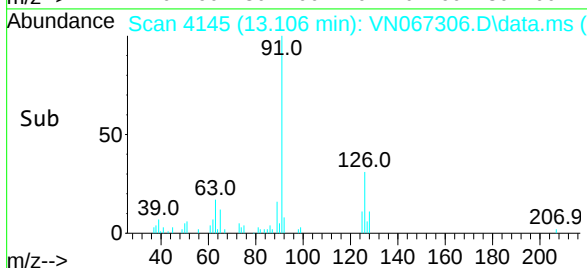
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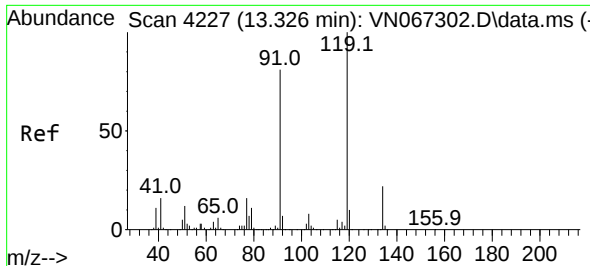


#78
4-Chlorotoluene
Concen: 0.874 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

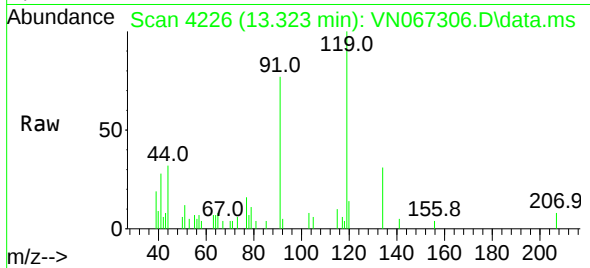


Tgt Ion: 91 Resp: 15754
Ion Ratio Lower Upper
91 100
126 29.7 0.0 57.6

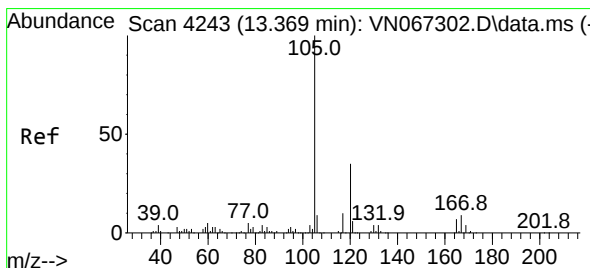
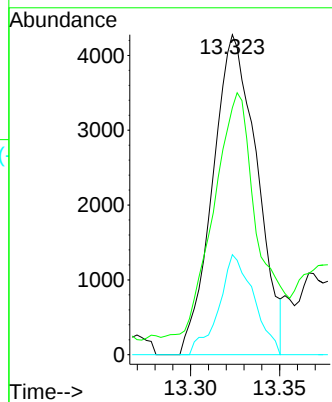
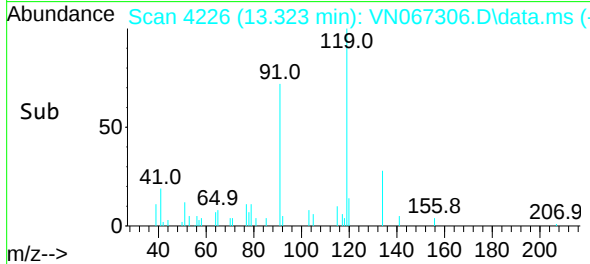




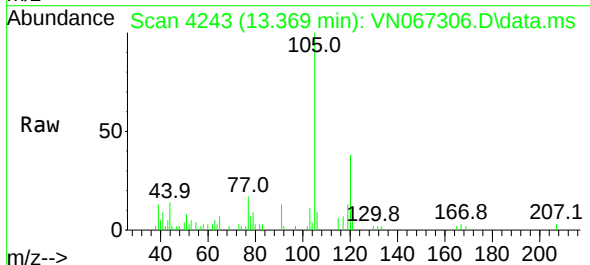
#79
tert-butylbenzene
Concen: 0.455 ug/l
RT: 13.323 min Scan# 4226
Delta R.T. -0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



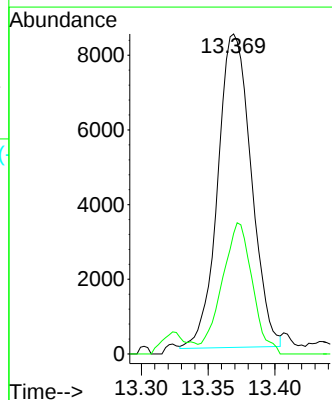
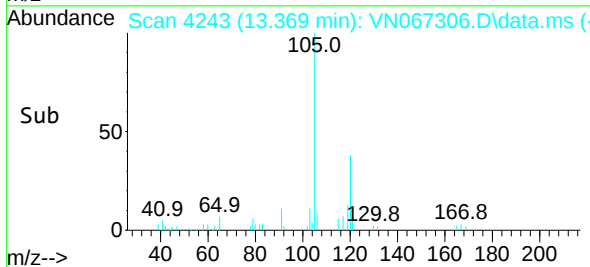
Tgt Ion:119 Resp: 7367
Ion Ratio Lower Upper
119 100
91 75.6 0.0 158.4
134 24.8 0.0 43.6



#80
1,2,4-Trimethylbenzene
Concen: 0.736 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



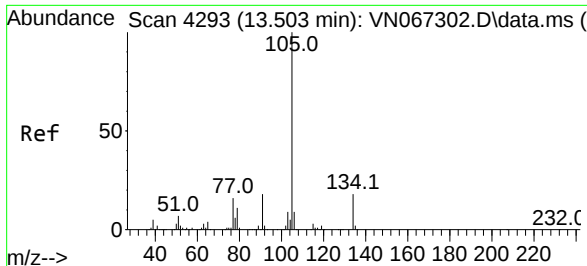
Tgt Ion:105 Resp: 14651
Ion Ratio Lower Upper
105 100
120 37.9 0.0 0.4#



Instrument :
MSVOA_N
ClientSampled :
IBLK

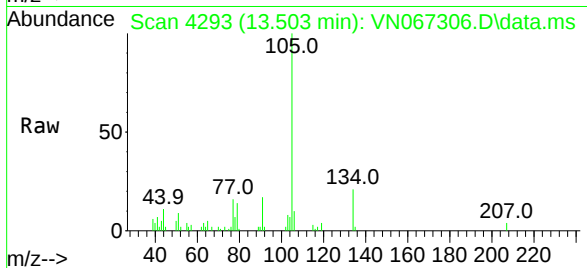
Manual Integrations
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#81
 sec-Butylbenzene
 Concen: 0.823 ug/l
 RT: 13.503 min Scan# 4293
 Delta R.T. -0.000 min
 Lab File: VN067306.D
 Acq: 11 Jun 2021 23:59

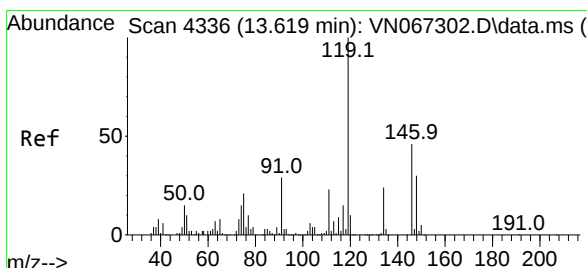
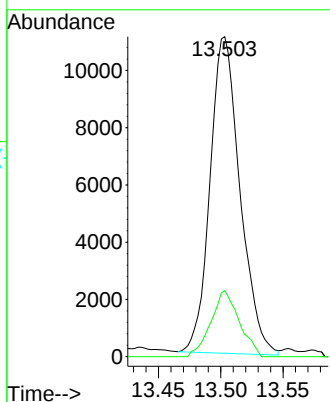
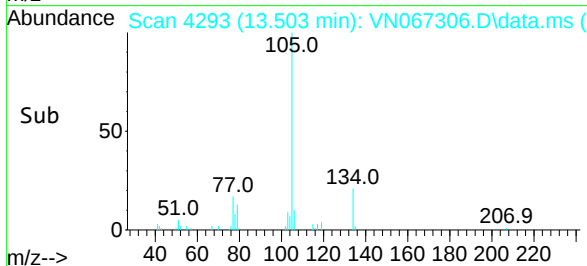
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 MSVOA_N
 ClientSampled :
 IBLK



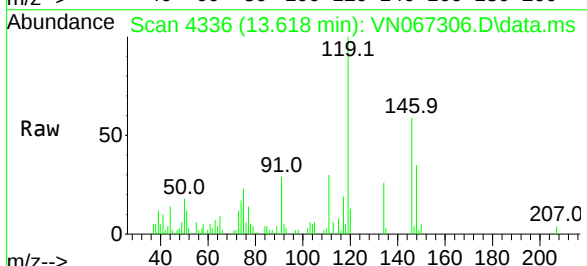
Tgt Ion:105 Resp: 18528
 Ion Ratio Lower Upper
 105 100
 134 19.7 0.0 35.4

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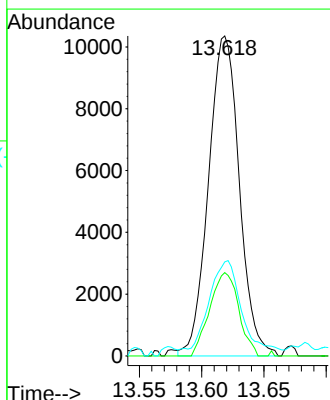
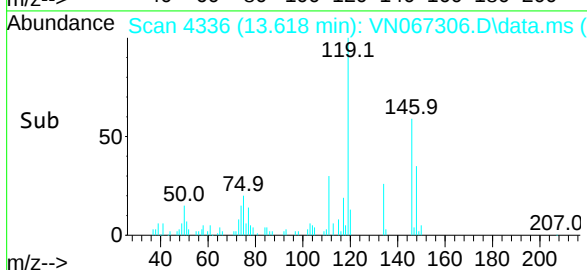
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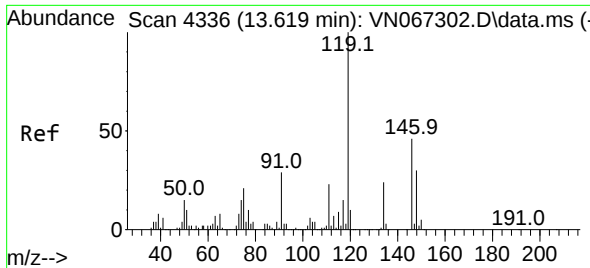


#82
 p-Isopropyltoluene
 Concen: 0.982 ug/l
 RT: 13.618 min Scan# 4336
 Delta R.T. -0.000 min
 Lab File: VN067306.D
 Acq: 11 Jun 2021 23:59



Tgt Ion:119 Resp: 17823
 Ion Ratio Lower Upper
 119 100
 134 24.5 0.0 49.0
 91 28.8 0.0 59.6





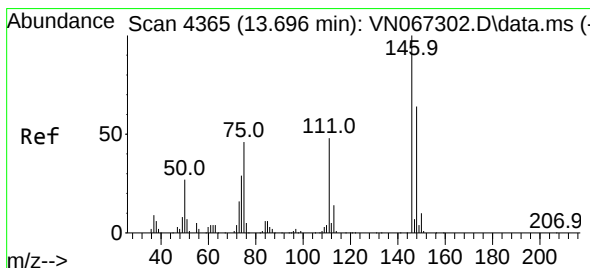
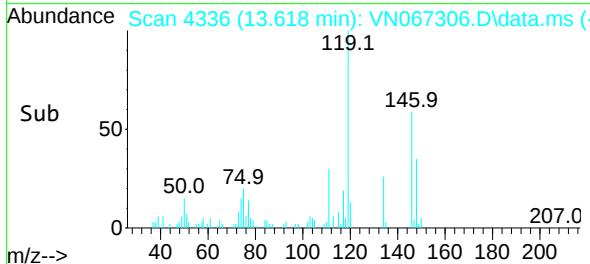
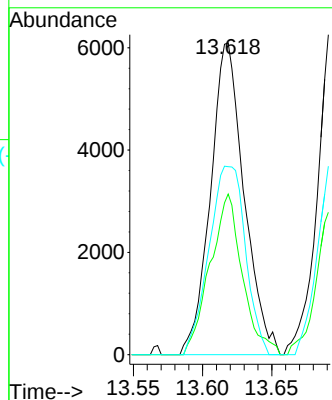
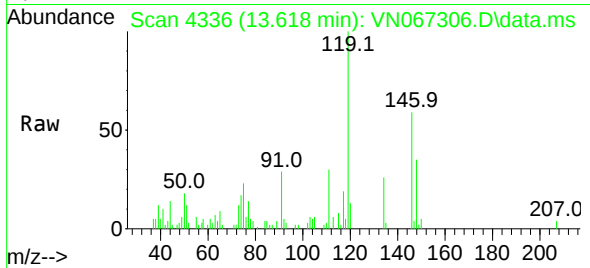
#83
1,3-Dichlorobenzene
Concen: 1.151 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion:146 Resp: 10280
Ion Ratio Lower Upper
146 100
111 49.7 25.0 75.0
148 65.6 32.6 97.7

Instrument :
MSVOA_N
ClientSampled :
IBLK

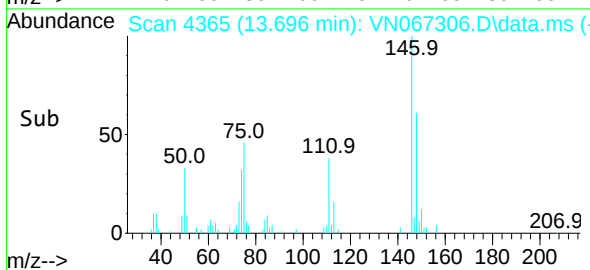
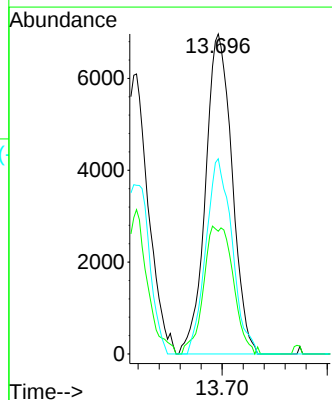
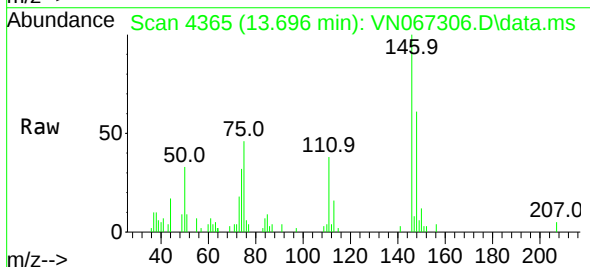
Manual Integrations
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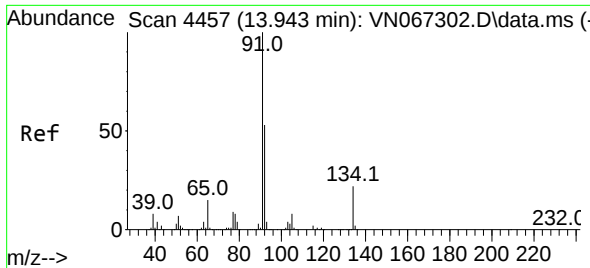
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#84
1,4-Dichlorobenzene
Concen: 1.366 ug/l m
RT: 13.696 min Scan# 4365
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

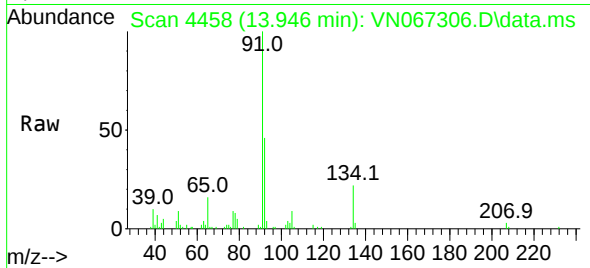
Tgt Ion:146 Resp: 12245
Ion Ratio Lower Upper
146 100
111 41.7 23.6 71.0
148 55.0 31.8 95.3





#85
n-Butylbenzene
Concen: 1.932 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

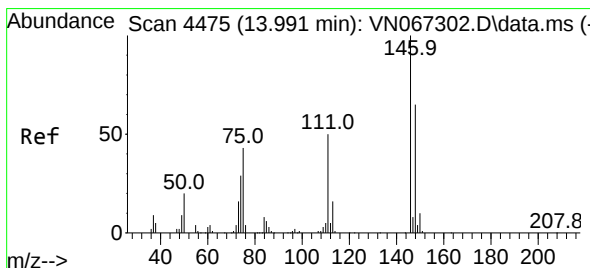
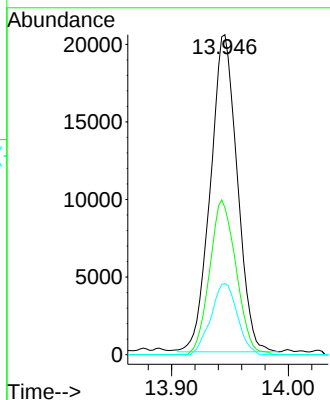
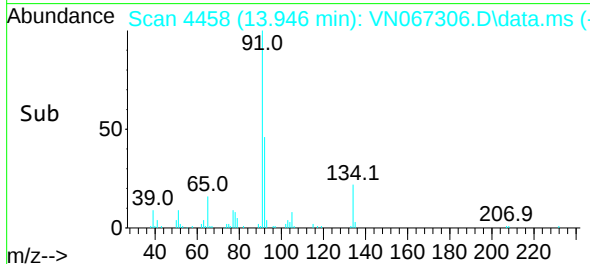
Instrument :
MSVOA_N
ClientSampled :
IBLK



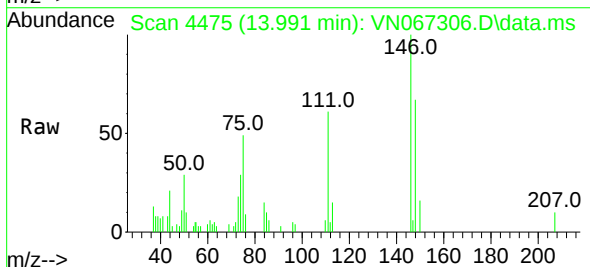
Tgt Ion: 91 Resp: 32603
Ion Ratio Lower Upper
91 100
92 48.1 0.0 103.0
134 22.1 0.0 43.6

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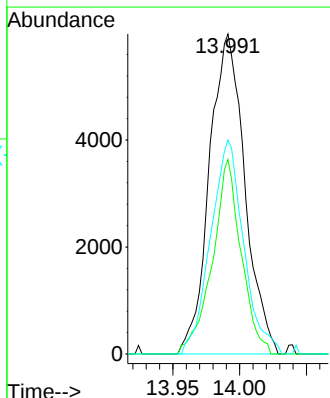
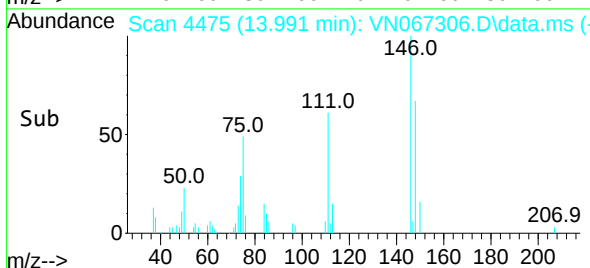
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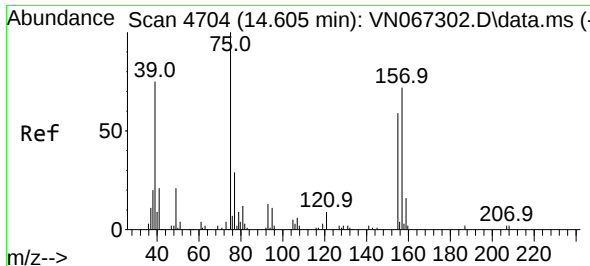


#87
1,2-Dichlorobenzene
Concen: 1.264 ug/l
RT: 13.991 min Scan# 4475
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59



Tgt Ion: 146 Resp: 11018
Ion Ratio Lower Upper
146 100
111 49.3 25.0 75.0
148 62.5 32.0 96.0





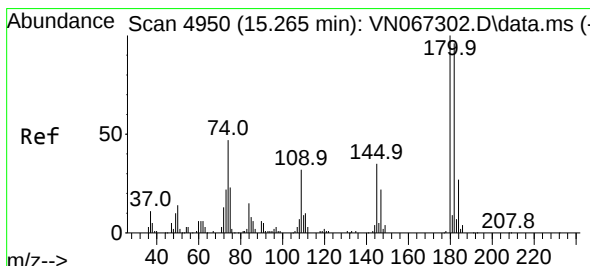
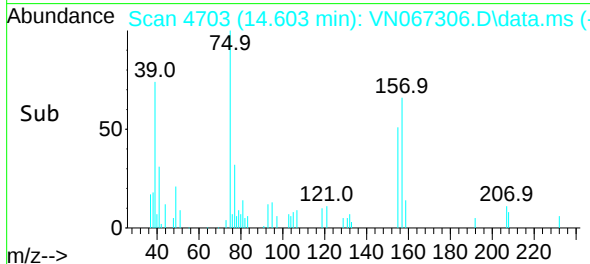
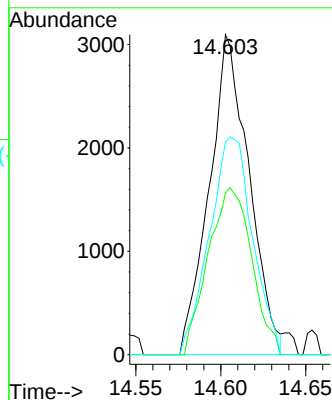
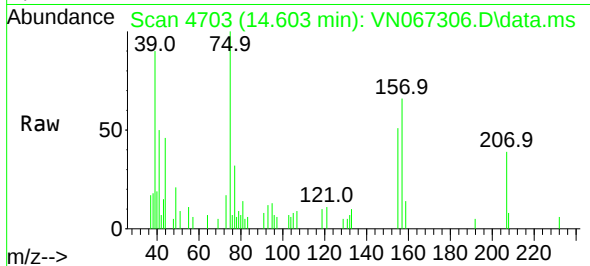
#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.743 ug/l
 RT: 14.603 min Scan# 4703
 Delta R.T. -0.003 min
 Lab File: VN067306.D
 Acq: 11 Jun 2021 23:59

Tgt Ion: 75 Resp: 5033
 Ion Ratio Lower Upper
 75 100
 155 57.2 45.3 67.9
 157 73.8 58.6 87.8

Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

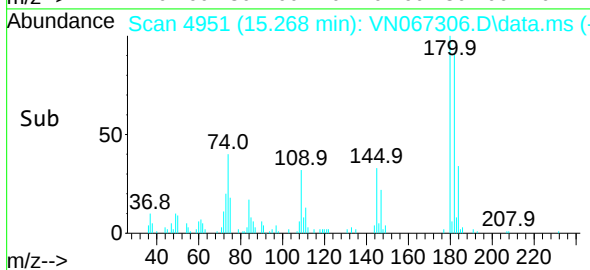
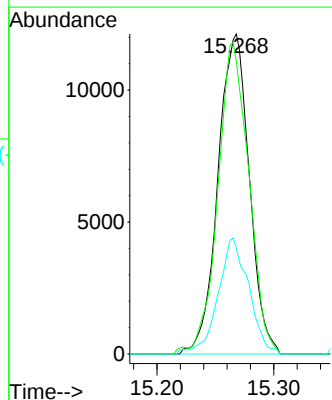
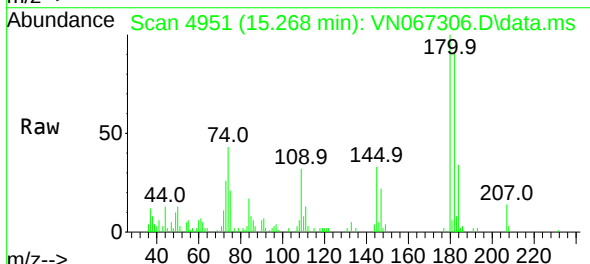
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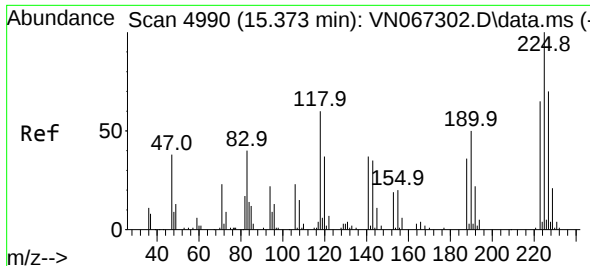
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#89
 1,2,4-Trichlorobenzene
 Concen: 5.092 ug/l
 RT: 15.268 min Scan# 4951
 Delta R.T. 0.003 min
 Lab File: VN067306.D
 Acq: 11 Jun 2021 23:59

Tgt Ion: 180 Resp: 22574
 Ion Ratio Lower Upper
 180 100
 182 95.7 75.9 113.9
 145 35.1 28.8 43.2





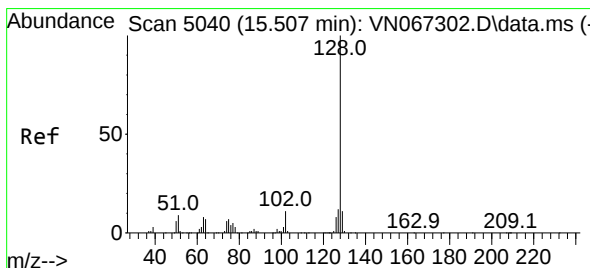
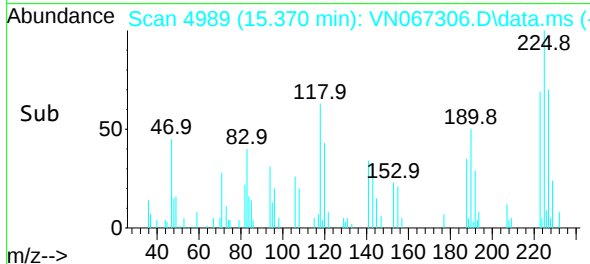
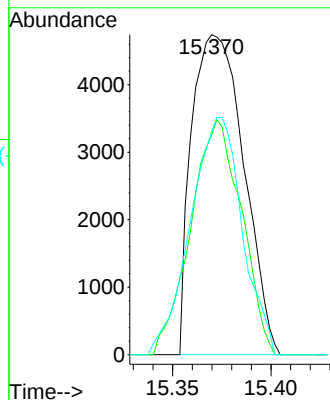
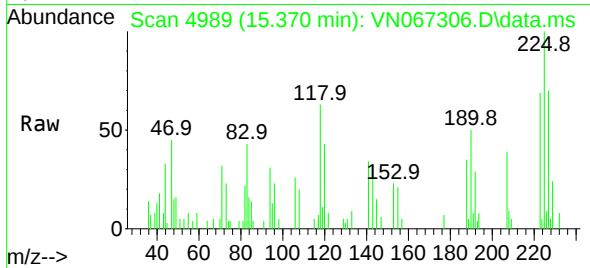
#90
Hexachlorobutadiene
Concen: 3.705 ug/l
RT: 15.370 min Scan# 4989
Delta R.T. -0.003 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	71.5	0.0	129.6
227	73.5	0.0	131.2

Instrument :
MSVOA_N
ClientSampled :
IBLK

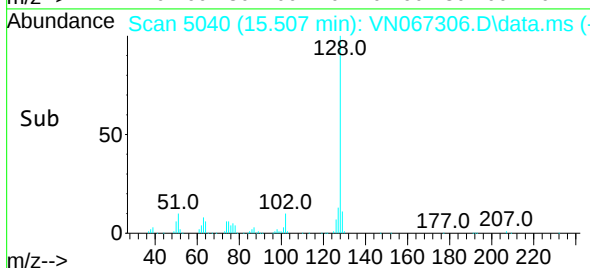
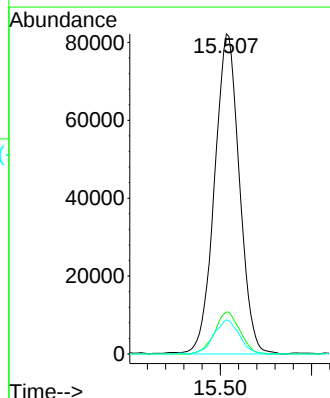
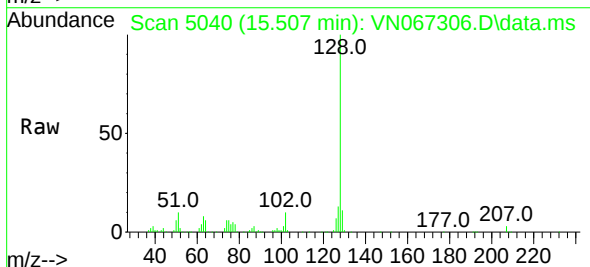
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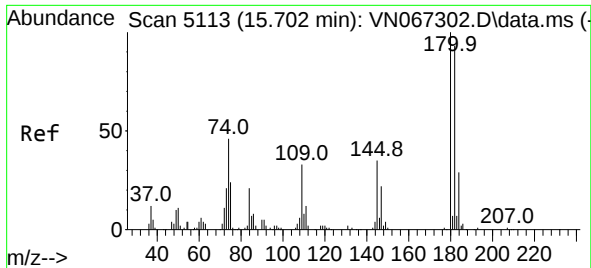
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#91
Naphthalene
Concen: 10.465 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN067306.D
Acq: 11 Jun 2021 23:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.1	15.1
129	10.8	8.9	13.3





#92
 1,2,3-Trichlorobenzene
 Concen: 7.091 ug/l
 RT: 15.705 min Scan# 5114
 Delta R.T. 0.003 min
 Lab File: VN067306.D
 Acq: 11 Jun 2021 23:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	0.0	184.6
145	39.6	0.0	76.0

Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

Manual Integrations
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