

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066677.D
 Acq On : 20 Apr 2021 12:41
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

Manual Integrations
 APPROVED

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 4/21/2021 4:34:50 PM

Quant Time: Apr 21 10:06:03 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	7.114	128	49052	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	257510	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.351	117	214627	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.956	65	107353	30.37	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.23%		
60) 4-Bromofluorobenzene	12.349	95	78975	23.48	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	78.27%		
63) Toluene-d8	10.029	98	314028	31.80	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	106.00%		
Target Compounds						
16) Carbon Disulfide	3.986	76	10252	1.30	ug/l	96
18) Methylene Chloride	4.466	84	2347m	0.72	ug/l	
37) Trichloroethene	8.771	130	1392	0.45	ug/l	91
58) 4-Methyl-2-Pentanone	9.927	43	10044	2.75	ug/l	94
64) Chlorobenzene	11.378	112	4014	0.55	ug/l	96
66) Ethyl Benzene	11.458	91	5313	0.41	ug/l	96
67) m/p-Xylenes	11.571	106	4077m	0.83	ug/l	
68) o-Xylene	11.898	106	1779	0.38	ug/l	89
70) Isopropylbenzene	12.199	105	5487	0.44	ug/l	99
74) n-propylbenzene	12.545	91	10352	0.72	ug/l	81
75) 2-Chlorotoluene	12.622	91	4875	0.57	ug/l	91
76) 1,3,5-Trimethylbenzene	12.681	105	6307	0.60	ug/l	98
79) tert-butylbenzene	12.944	119	5869	0.67	ug/l	86
80) 1,2,4-Trimethylbenzene	12.992	105	8424	0.84	ug/l	96
81) sec-Butylbenzene	13.121	105	10329	0.89	ug/l	98
82) p-Isopropyltoluene	13.242	119	13155	1.32	ug/l	99
83) 1,3-Dichlorobenzene	13.247	146	5980m	1.15	ug/l	
84) 1,4-Dichlorobenzene	13.333	146	11027m	2.20	ug/l	
85) n-Butylbenzene	13.572	91	28529	3.44	ug/l	89
86) Hexachloroethane	13.816	117	942	0.45	ug/l	78
87) 1,2-Dichlorobenzene	13.609	146	9049	1.77	ug/l	94
89) 1,2,4-Trichlorobenzene	14.856	180	26665	9.03	ug/l	96
90) Hexachlorobutadiene	14.948	225	3801	2.30	ug/l	99
91) Naphthalene	15.074	128	165194	23.28	ug/l	99
92) 1,2,3-Trichlorobenzene	15.251	180	35016	12.55	ug/l	99

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

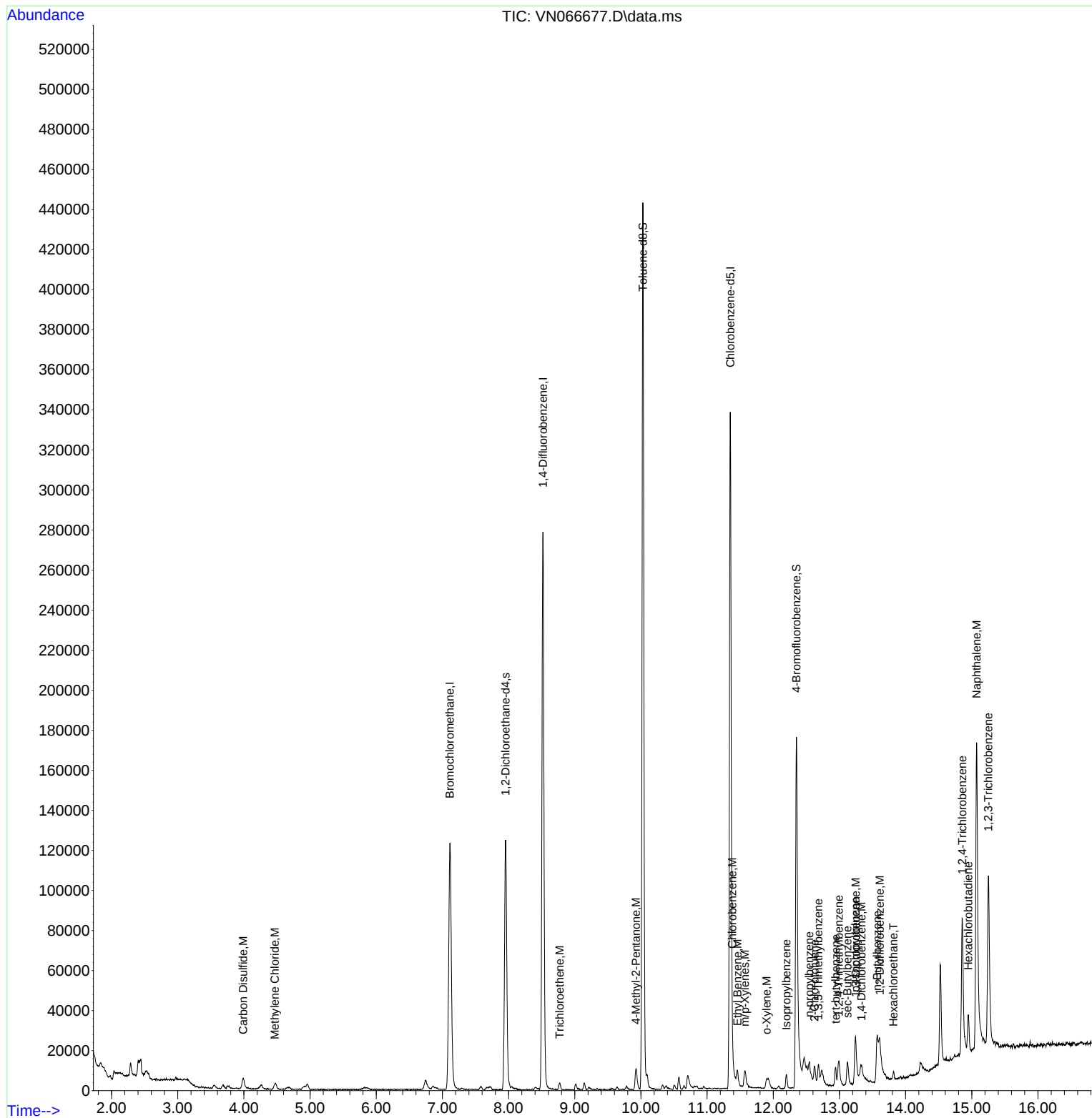
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Data File : VN066677.D
Acq On : 20 Apr 2021 12:41
Operator : JC/MD
Sample : IBLK
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

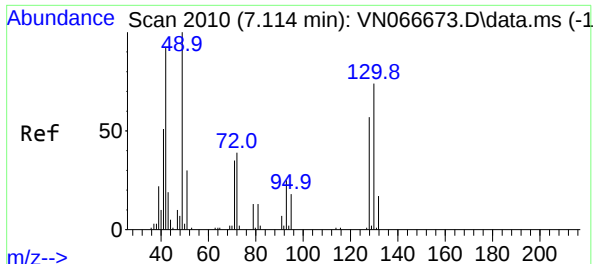
Instrument :
MSVOA_N
ClientSampleId :
IBLK

Manual Integrations
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Quant Time: Apr 21 10:06:03 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





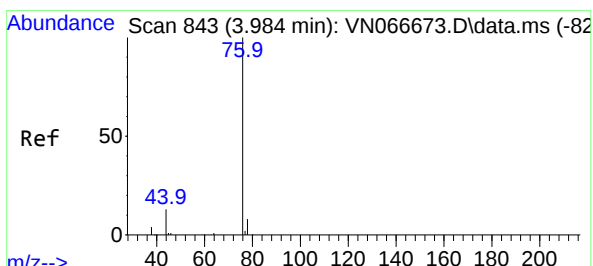
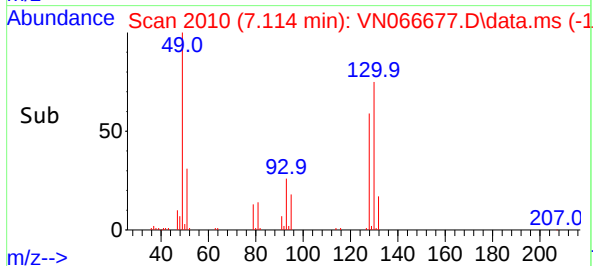
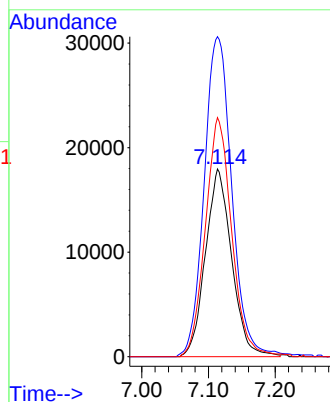
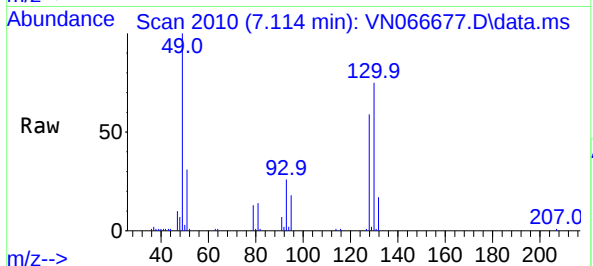
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.114 min Scan# 2010
Delta R.T. -0.000 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:128 Resp: 49052
Ion Ratio Lower Upper
128 100
49 178.4 0.0 429.3
130 127.7 0.0 328.5

Instrument :
MSVOA_N
ClientSampled :
IBLK

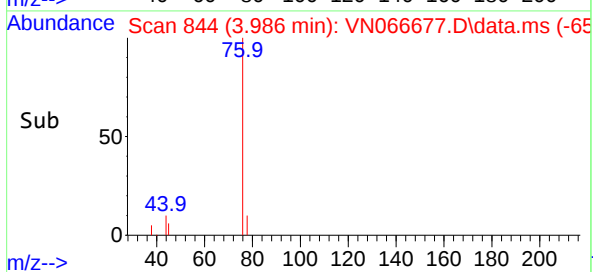
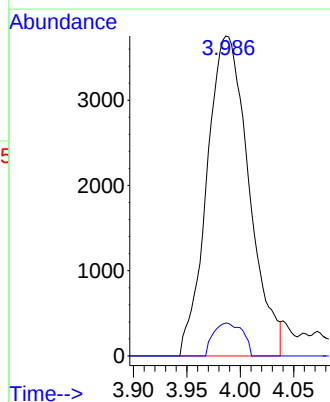
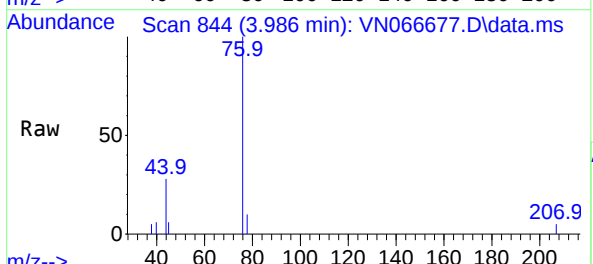
Manual Integrations
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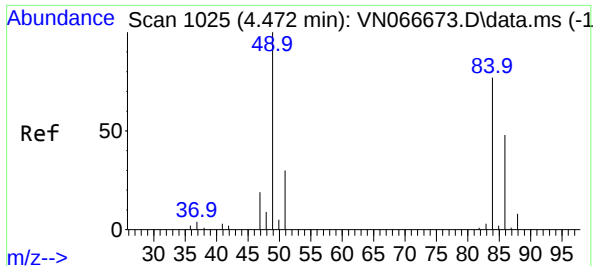
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#16
Carbon Disulfide
Concen: 1.30 ug/l
RT: 3.986 min Scan# 844
Delta R.T. 0.002 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

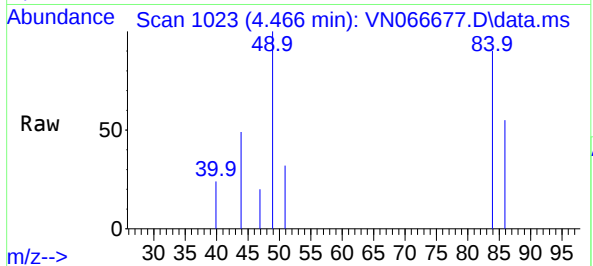
Tgt Ion: 76 Resp: 10252
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.6





#18
Methylene Chloride
Concen: 0.72 ug/l m
RT: 4.466 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

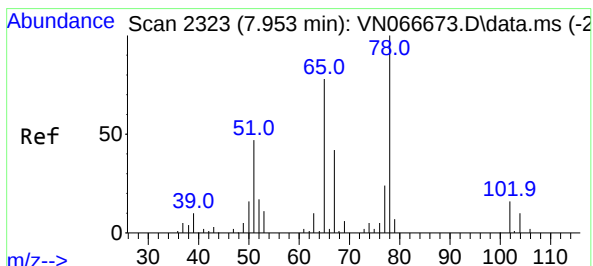
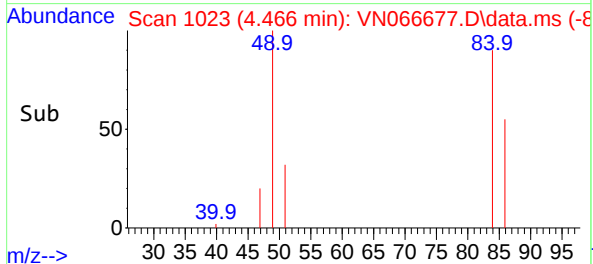
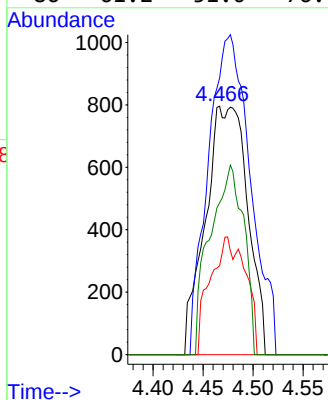
Instrument :
MSVOA_N
ClientSampled :
IBLK



Tgt Ion:	84	Resp:	2347
Ion	Ratio	Lower	Upper
84	100		
49	111.3	98.9	148.3
51	35.8	30.8	46.2
86	61.2	51.0	76.4

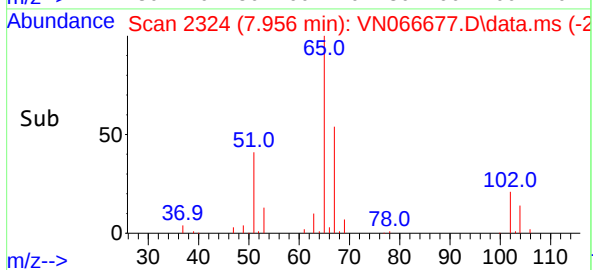
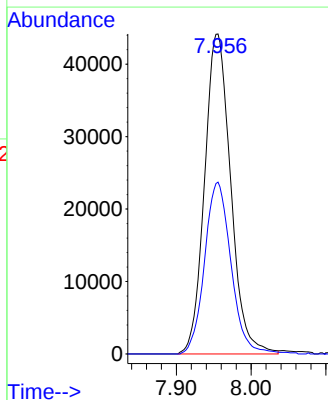
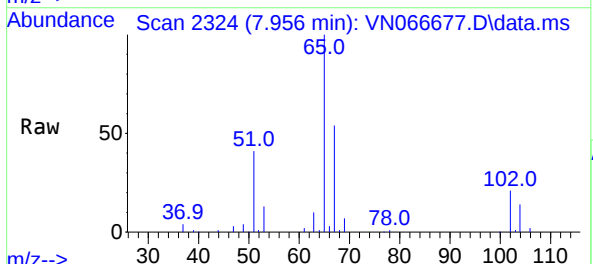
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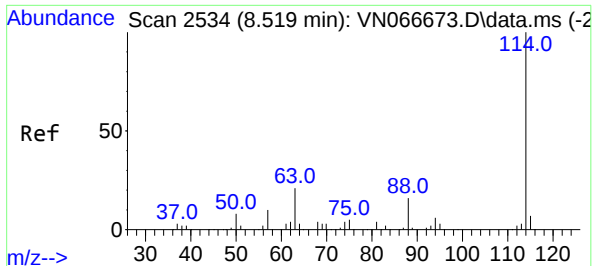
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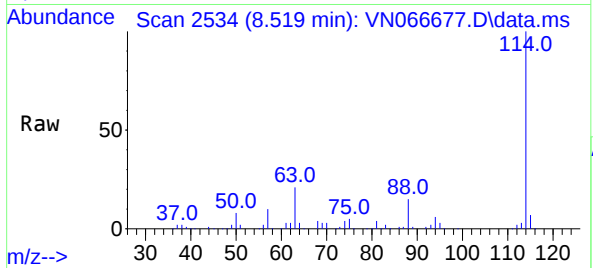
#27
1,2-Dichloroethane-d4
Concen: 30.37 ug/l
RT: 7.956 min Scan# 2324
Delta R.T. 0.003 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:	65	Resp:	107353
Ion	Ratio	Lower	Upper
65	100		
67	54.2	42.2	63.4

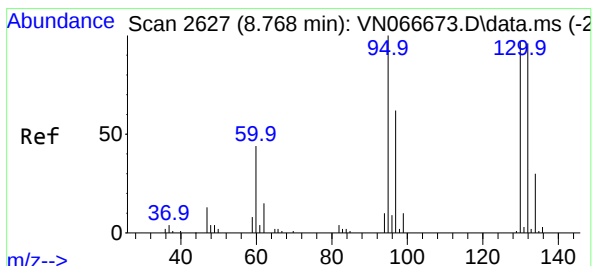
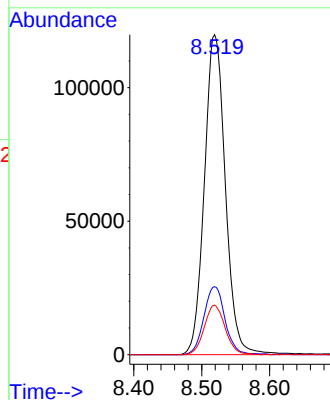
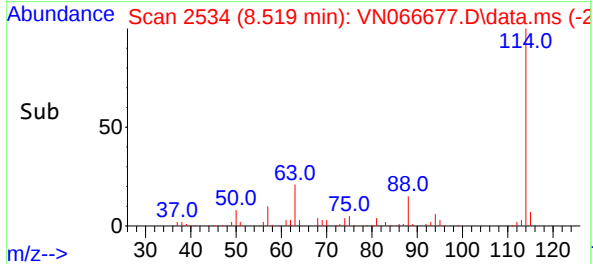




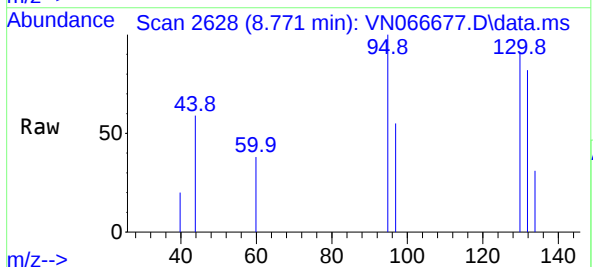
#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. -0.000 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



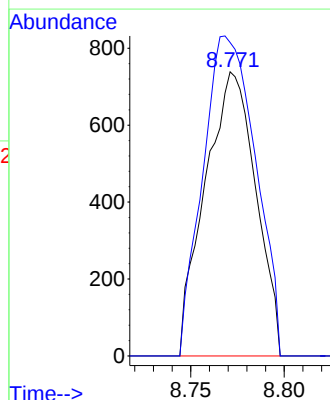
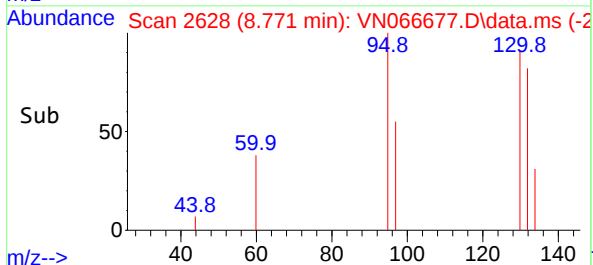
Tgt Ion:114 Resp: 257510
Ion Ratio Lower Upper
114 100
63 21.5 17.4 26.0
88 15.4 12.6 19.0



#37
Trichloroethene
Concen: 0.45 ug/l
RT: 8.771 min Scan# 2628
Delta R.T. 0.003 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



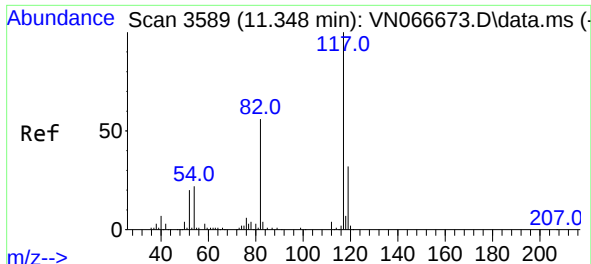
Tgt Ion:130 Resp: 1392
Ion Ratio Lower Upper
130 100
95 110.3 80.7 121.1



Instrument :
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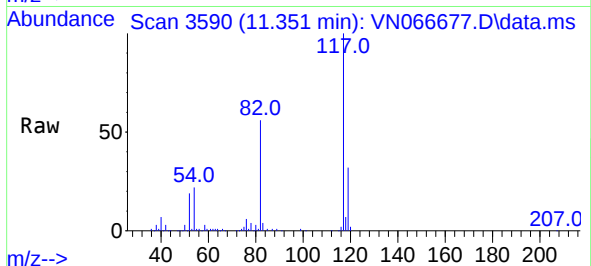
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#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

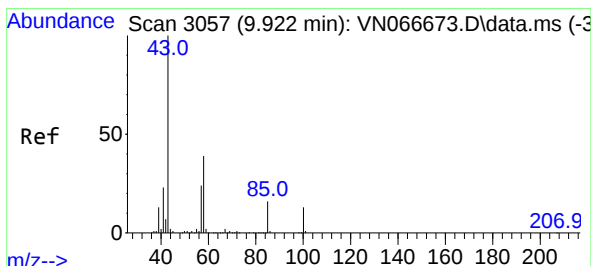
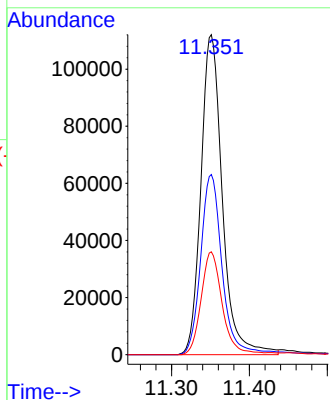
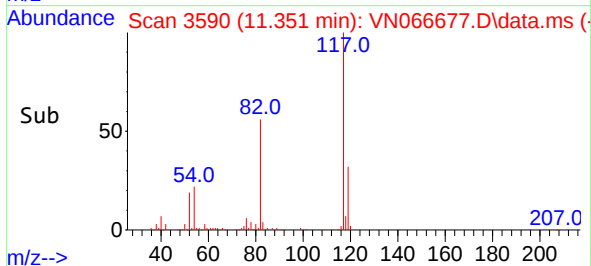
Instrument :
MSVOA_N
ClientSampled :
IBLK



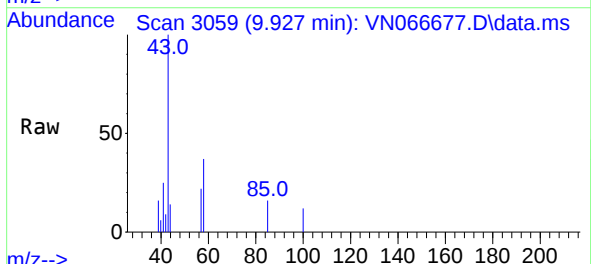
Tgt Ion: 117 Resp: 214627
Ion Ratio Lower Upper
117 100
82 55.9 45.0 67.6
119 31.7 25.5 38.3

Manual Integrations
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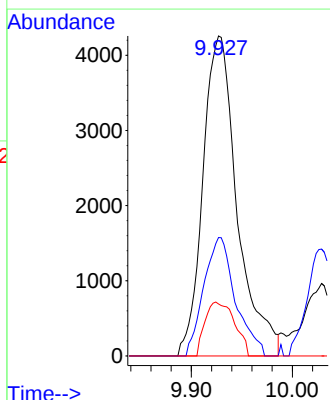
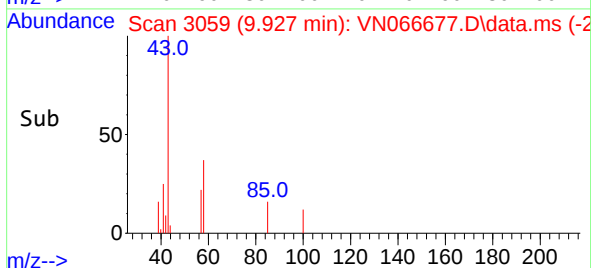
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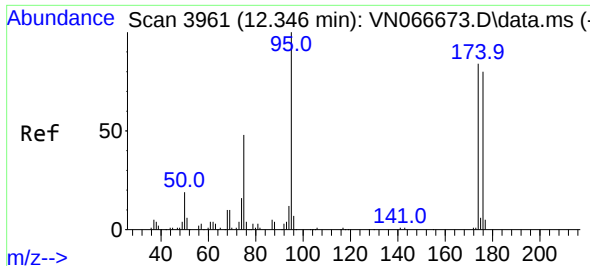


#58
4-Methyl-2-Pentanone
Concen: 2.75 ug/l
RT: 9.927 min Scan# 3059
Delta R.T. 0.005 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

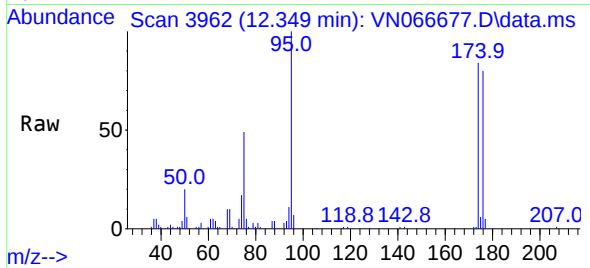


Tgt Ion: 43 Resp: 10044
Ion Ratio Lower Upper
43 100
58 34.2 30.4 45.6
85 14.5 13.8 20.8

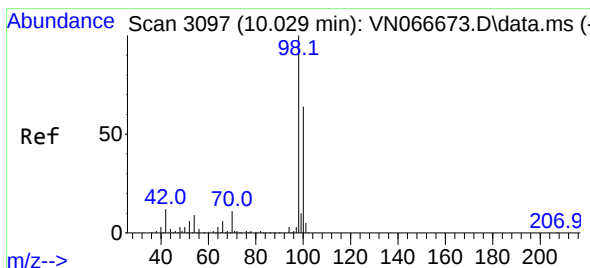
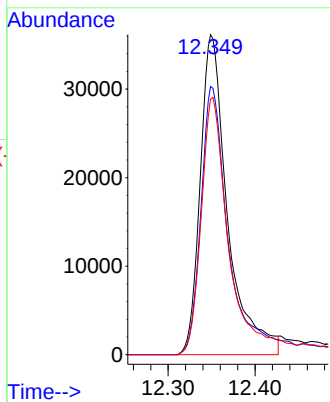
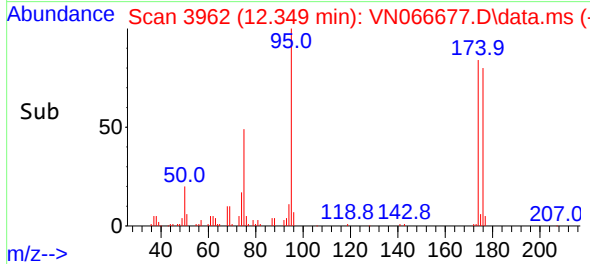




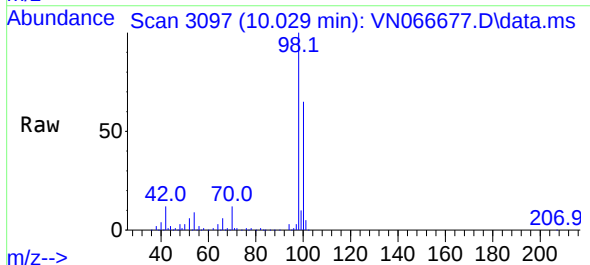
#60
4-Bromofluorobenzene
Concen: 23.48 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



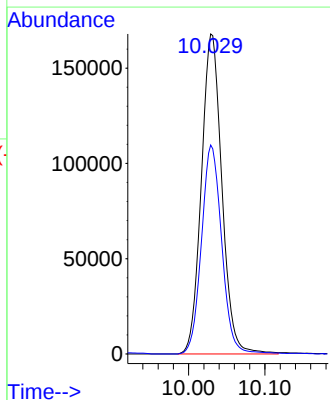
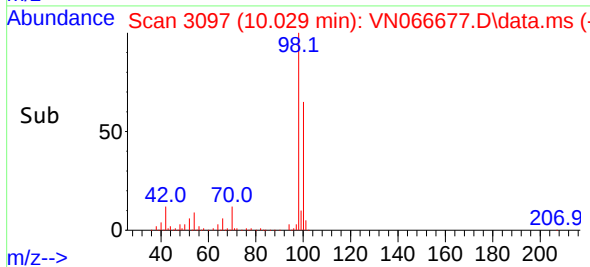
Tgt Ion: 95 Resp: 78975
Ion Ratio Lower Upper
95 100
174 85.9 68.1 102.1
176 78.4 65.4 98.0



#63
Toluene-d8
Concen: 31.80 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



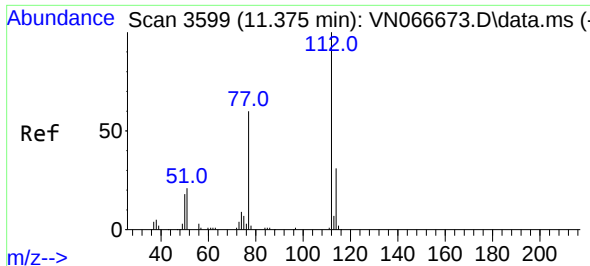
Tgt Ion: 98 Resp: 314028
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



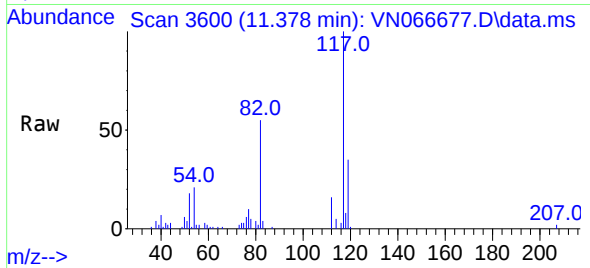
Instrument :
MSVOA_N
ClientSampled :
IBLK

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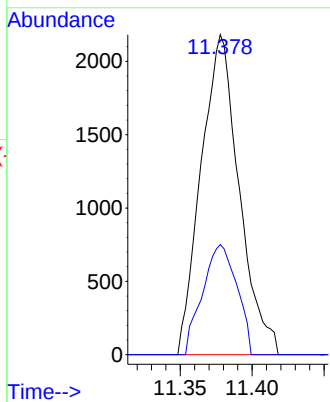
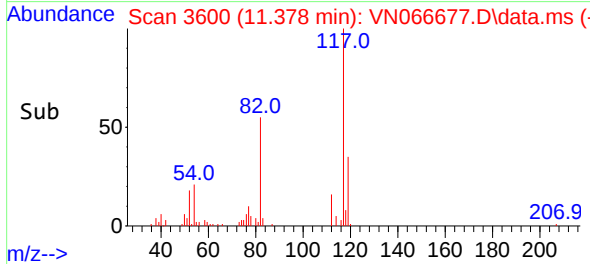
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#64
Chlorobenzene
Concen: 0.55 ug/l
RT: 11.378 min Scan# 3600
Delta R.T. 0.003 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



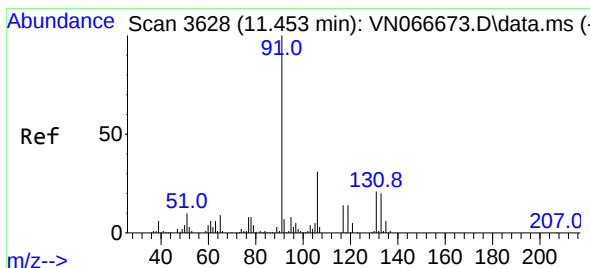
Tgt Ion: 112 Resp: 4014
Ion Ratio Lower Upper
112 100
114 34.4 25.6 38.4



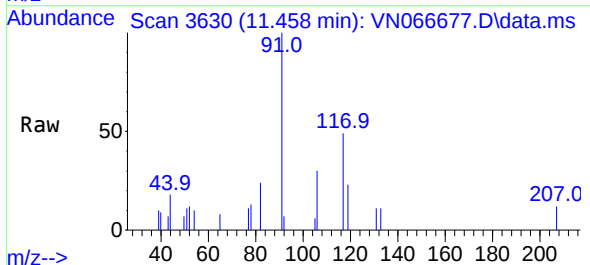
Instrument :
MSVOA_N
ClientSampled :
IBLK

Manual Integrations
APPROVED

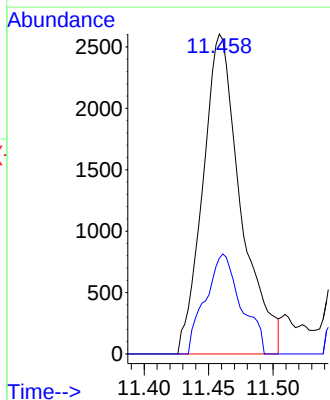
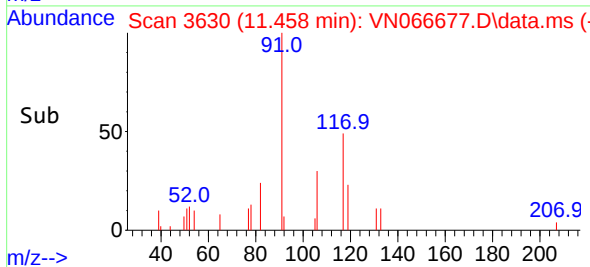
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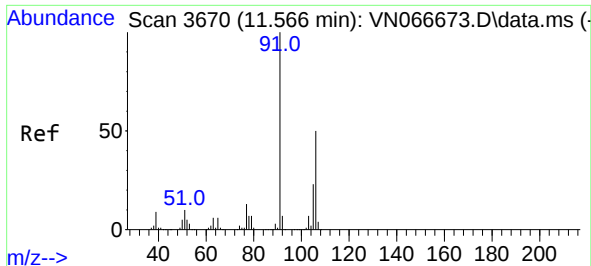


#66
Ethyl Benzene
Concen: 0.41 ug/l
RT: 11.458 min Scan# 3630
Delta R.T. 0.005 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



Tgt Ion: 91 Resp: 5313
Ion Ratio Lower Upper
91 100
106 29.9 25.5 38.3





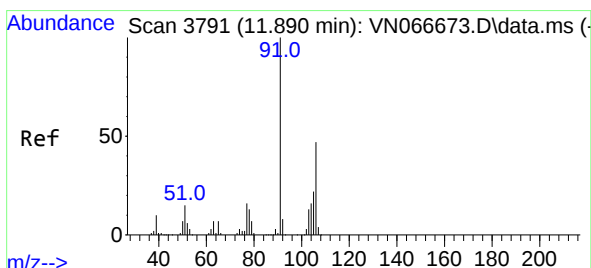
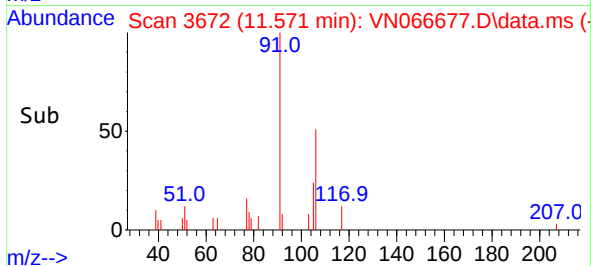
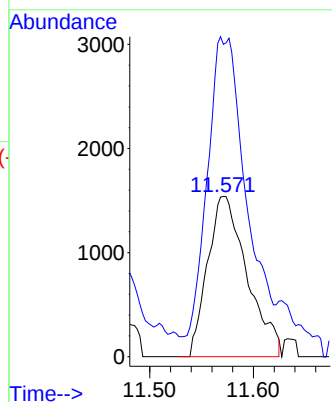
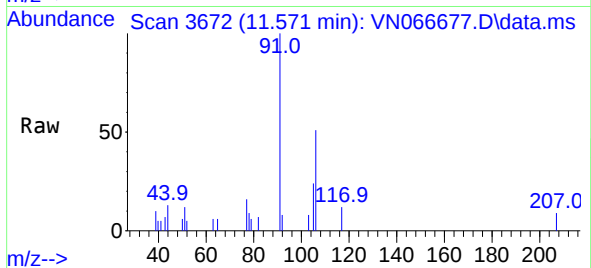
#67
m/p-Xylenes
Concen: 0.83 ug/l m
RT: 11.571 min Scan# 3672
Delta R.T. 0.005 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:106 Resp: 4077
Ion Ratio Lower Upper
106 100
91 101.3 164.8 247.2#

Instrument :
MSVOA_N
ClientSampled :
IBLK

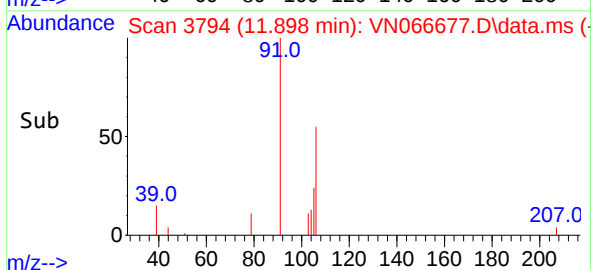
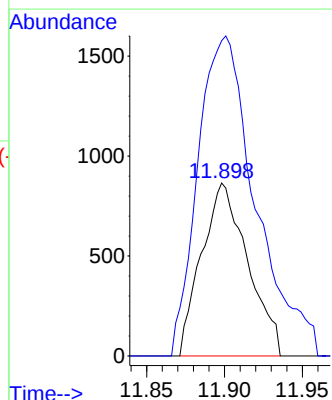
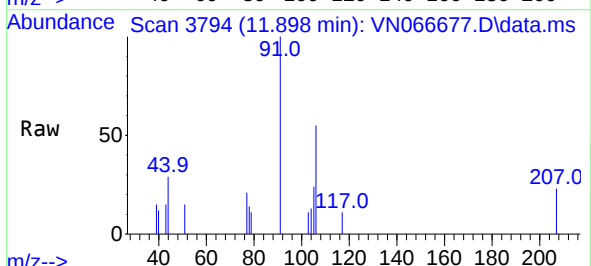
Manual Integrations
APPROVED

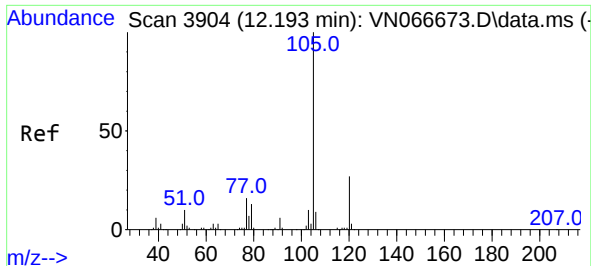
MMDadoda
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#68
o-Xylene
Concen: 0.38 ug/l
RT: 11.898 min Scan# 3794
Delta R.T. 0.008 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

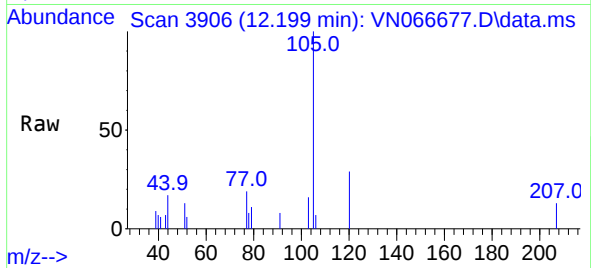
Tgt Ion:106 Resp: 1779
Ion Ratio Lower Upper
106 100
91 232.0 107.1 321.4





#70
Isopropylbenzene
Concen: 0.44 ug/l
RT: 12.199 min Scan# 3906
Delta R.T. 0.006 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

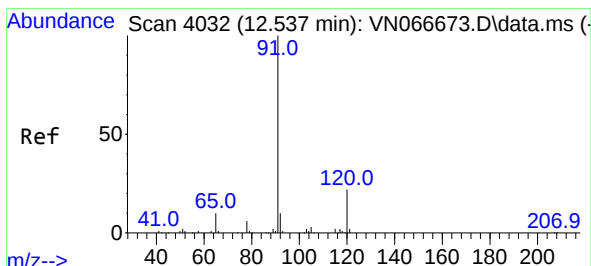
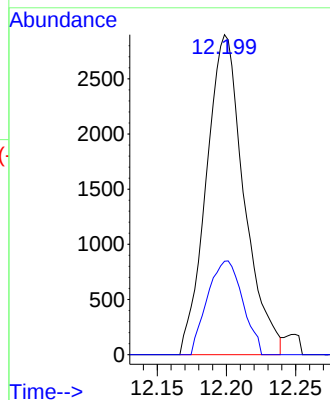
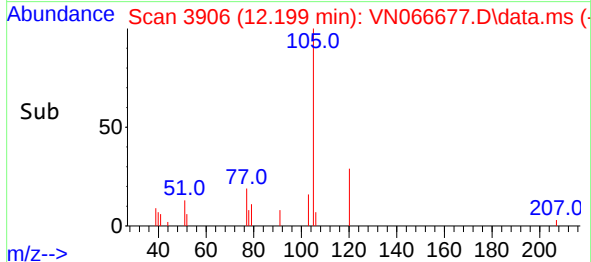
Instrument :
MSVOA_N
ClientSampled :
IBLK



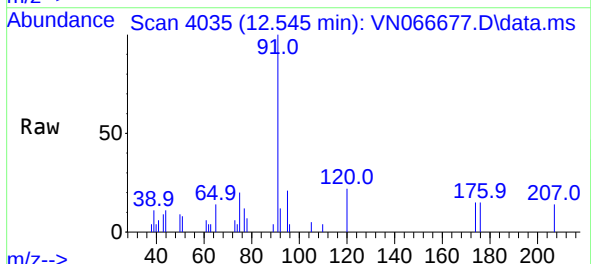
Tgt Ion: 105 Resp: 5487
Ion Ratio Lower Upper
105 100
120 27.4 18.7 34.7

Manual Integrations
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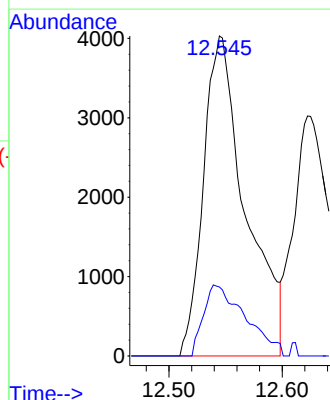
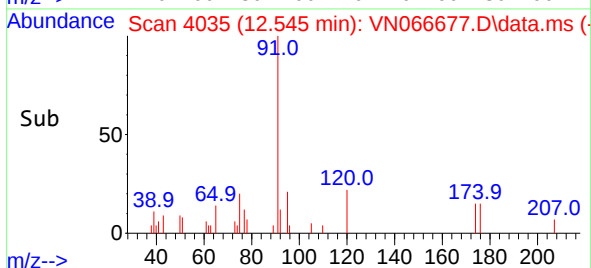
MMDadoda
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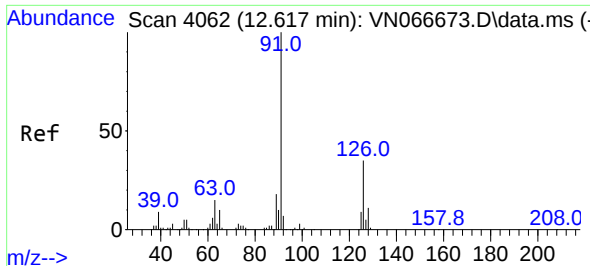


#74
n-propylbenzene
Concen: 0.72 ug/l
RT: 12.545 min Scan# 4035
Delta R.T. 0.008 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



Tgt Ion: 91 Resp: 10352
Ion Ratio Lower Upper
91 100
120 13.2 0.0 45.2





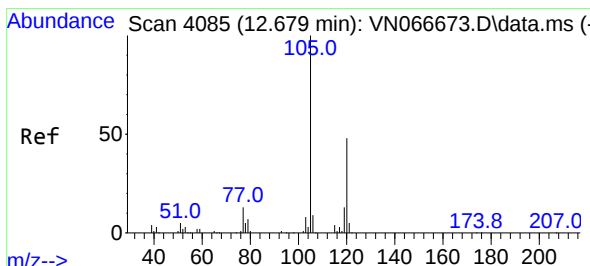
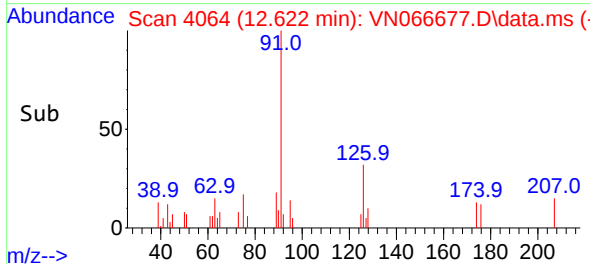
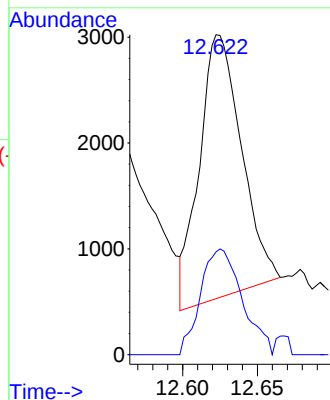
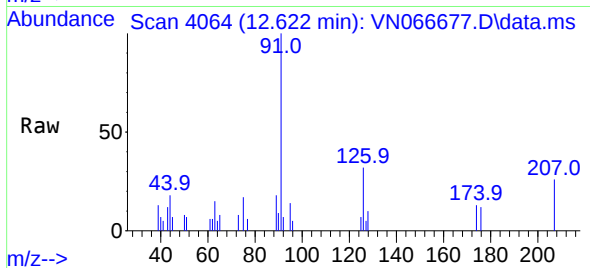
#75
2-Chlorotoluene
Concen: 0.57 ug/l
RT: 12.622 min Scan# 4064
Delta R.T. 0.005 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion: 91 Resp: 4875
Ion Ratio Lower Upper
91 100
126 39.6 0.0 68.6

Instrument :
MSVOA_N
ClientSampled :
IBLK

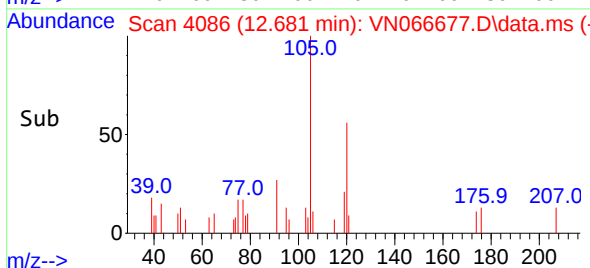
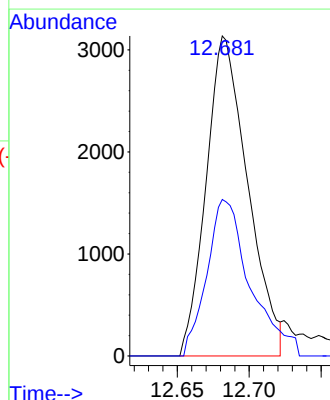
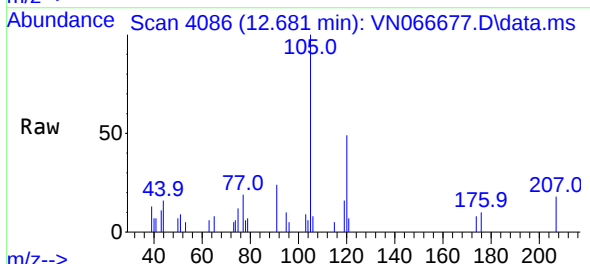
Manual Integrations
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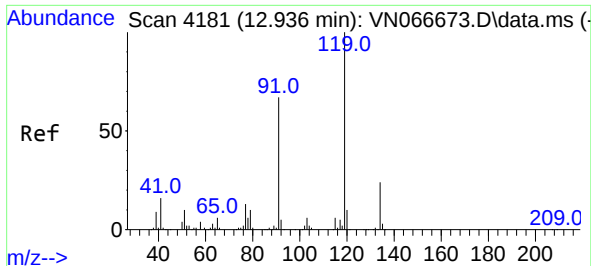
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#76
1,3,5-Trimethylbenzene
Concen: 0.60 ug/l
RT: 12.681 min Scan# 4086
Delta R.T. 0.002 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

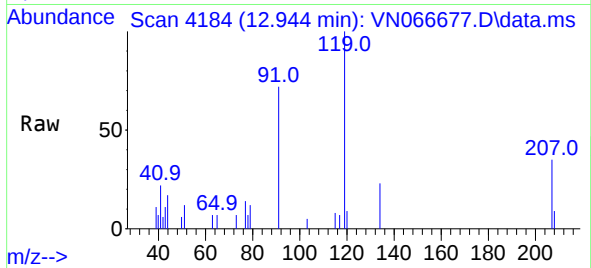
Tgt Ion: 105 Resp: 6307
Ion Ratio Lower Upper
105 100
120 50.5 0.0 98.2





#79
tert-butylbenzene
Concen: 0.67 ug/l
RT: 12.944 min Scan# 4184
Delta R.T. 0.008 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

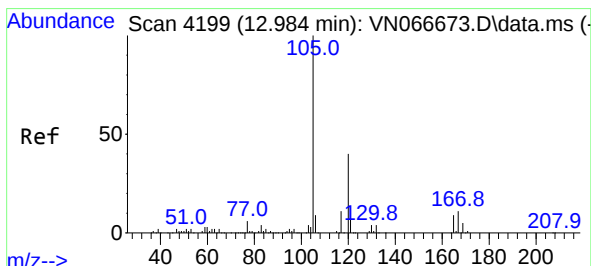
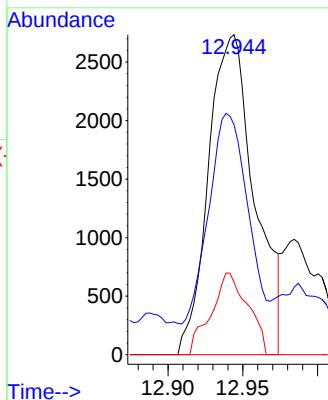
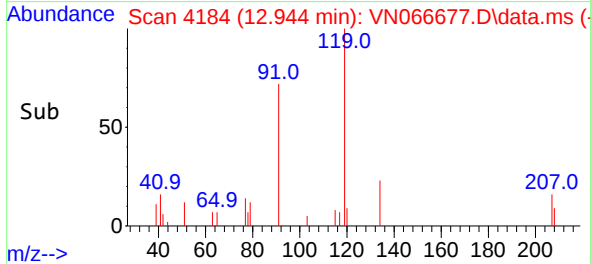
Instrument :
MSVOA_N
ClientSampled :
IBLK



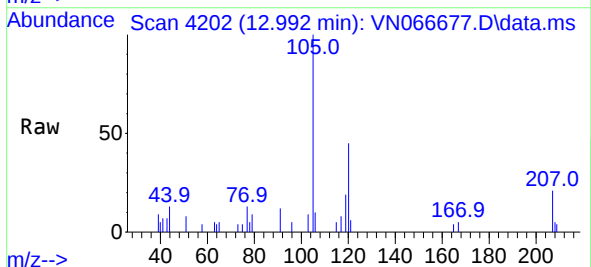
Tgt Ion:119 Resp: 5869
Ion Ratio Lower Upper
119 100
91 54.6 0.0 133.4
134 20.3 0.0 51.0

Manual Integrations
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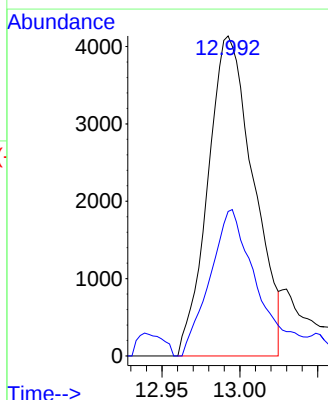
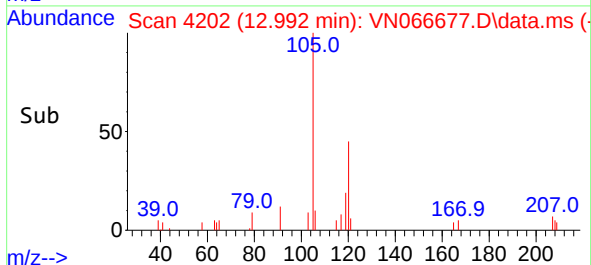
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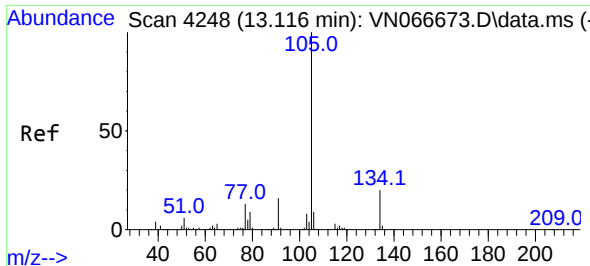


#80
1,2,4-Trimethylbenzene
Concen: 0.84 ug/l
RT: 12.992 min Scan# 4202
Delta R.T. 0.008 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



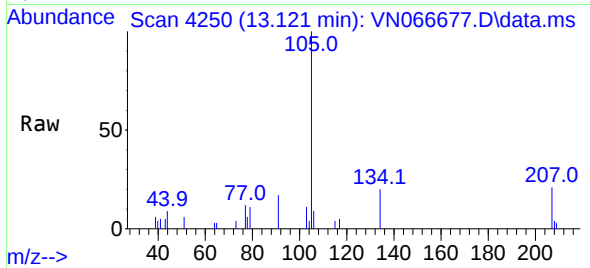
Tgt Ion:105 Resp: 8424
Ion Ratio Lower Upper
105 100
120 47.8 0.0 90.6





#81
 sec-Butylbenzene
 Concen: 0.89 ug/l
 RT: 13.121 min Scan# 4250
 Delta R.T. 0.005 min
 Lab File: VN066677.D
 Acq: 20 Apr 2021 12:41

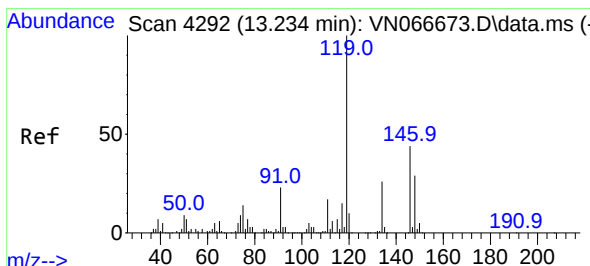
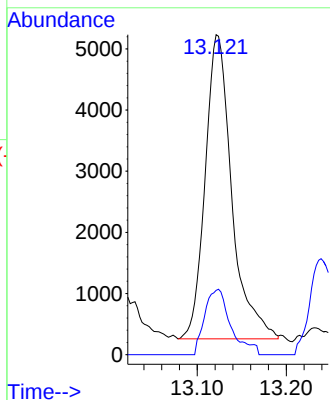
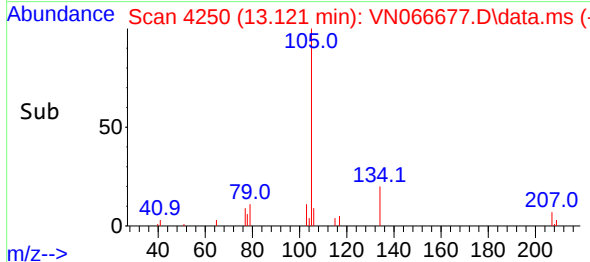
Instrument :
 MSVOA_N
 ClientSampled :
 IBLK



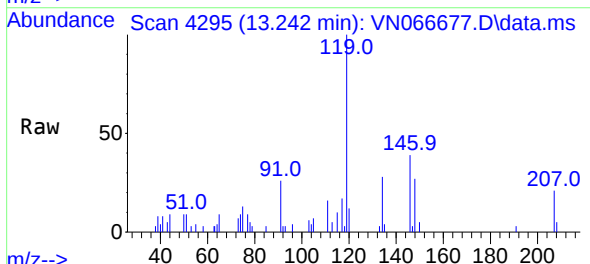
Tgt Ion:105 Resp: 10329
 Ion Ratio Lower Upper
 105 100
 134 19.1 0.0 40.0

Manual Integrations
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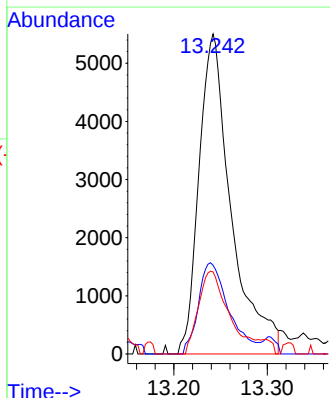
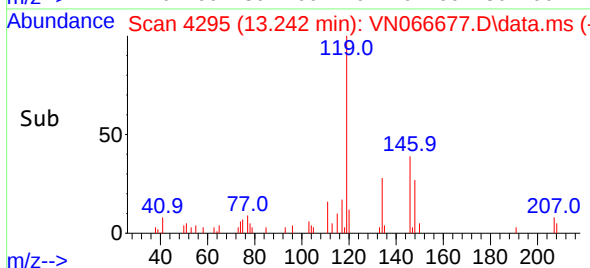
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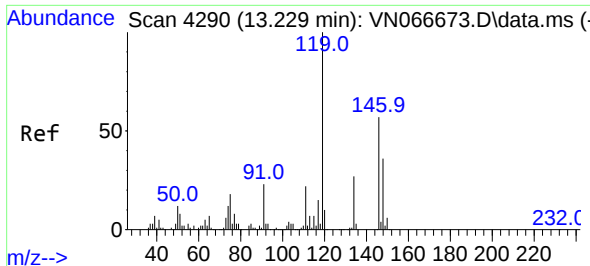


#82
 p-Isopropyltoluene
 Concen: 1.32 ug/l
 RT: 13.242 min Scan# 4295
 Delta R.T. 0.008 min
 Lab File: VN066677.D
 Acq: 20 Apr 2021 12:41



Tgt Ion:119 Resp: 13155
 Ion Ratio Lower Upper
 119 100
 134 26.8 0.0 53.4
 91 23.1 0.0 47.6





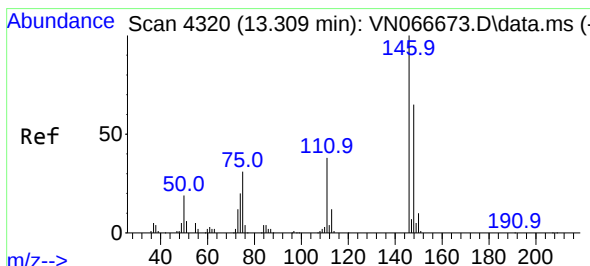
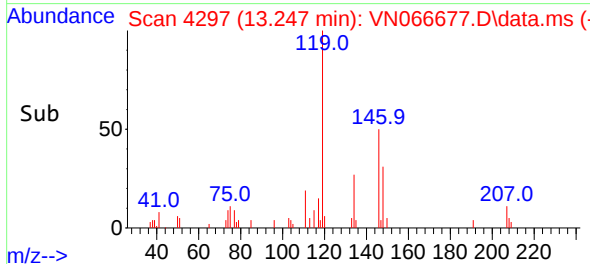
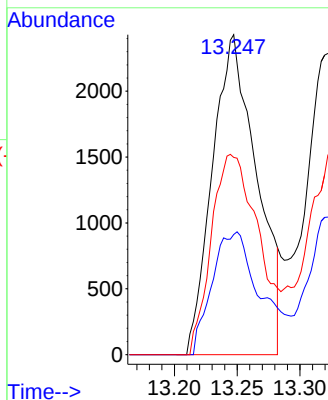
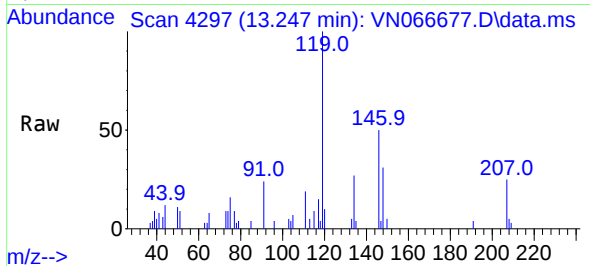
#83
1,3-Dichlorobenzene
Concen: 1.15 ug/l m
RT: 13.247 min Scan# 4297
Delta R.T. 0.018 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:146 Resp: 5980
Ion Ratio Lower Upper
146 100
111 60.2 19.3 57.9#
148 87.0 31.9 95.9

Instrument :
MSVOA_N
ClientSampled :
IBLK

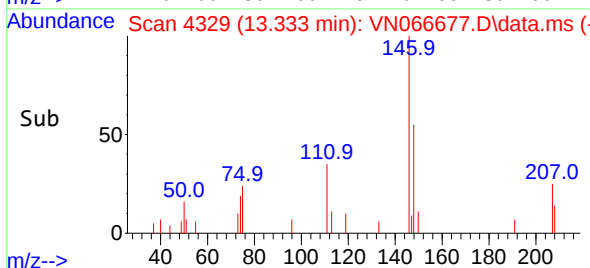
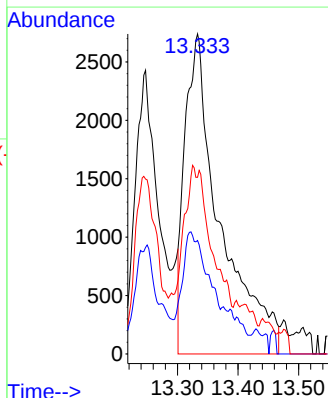
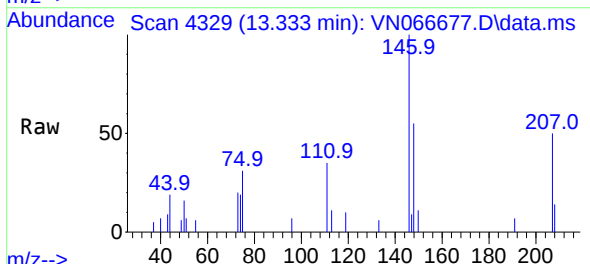
Manual Integrations
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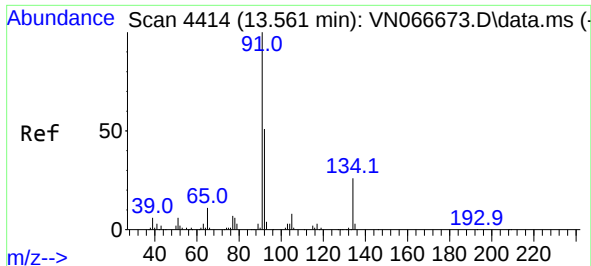
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#84
1,4-Dichlorobenzene
Concen: 2.20 ug/l m
RT: 13.333 min Scan# 4329
Delta R.T. 0.024 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:146 Resp: 11027
Ion Ratio Lower Upper
146 100
111 32.6 18.4 55.0
148 47.2 31.9 95.5





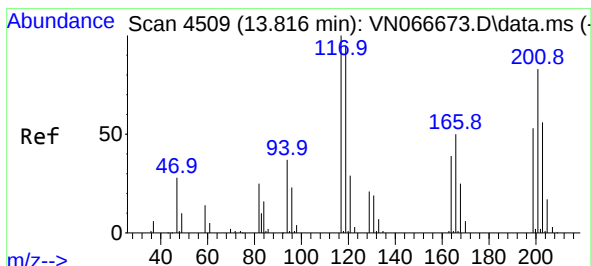
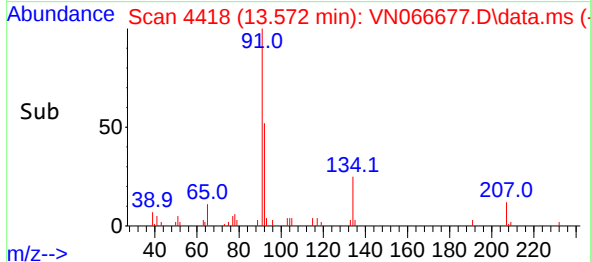
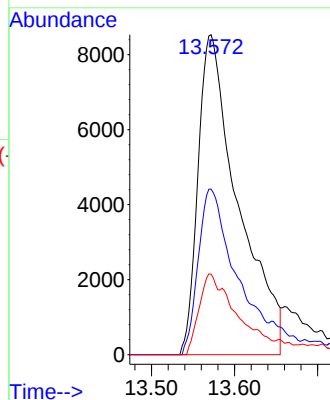
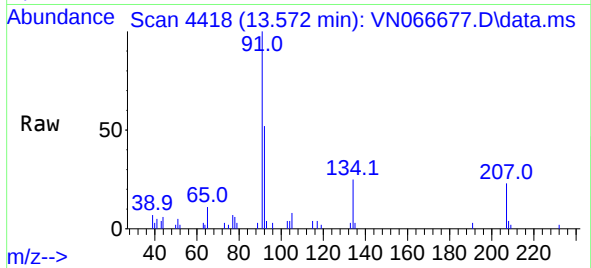
#85
n-Butylbenzene
Concen: 3.44 ug/l
RT: 13.572 min Scan# 4418
Delta R.T. 0.011 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:	91	Resp:	28529
Ion	Ratio	Lower	Upper
91	100		
92	48.6	0.0	102.6
134	11.2	0.0	49.0

Instrument :
MSVOA_N
ClientSampled :
IBLK

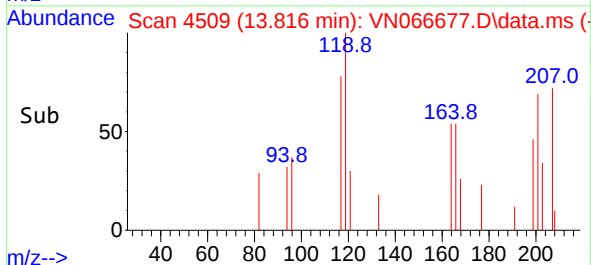
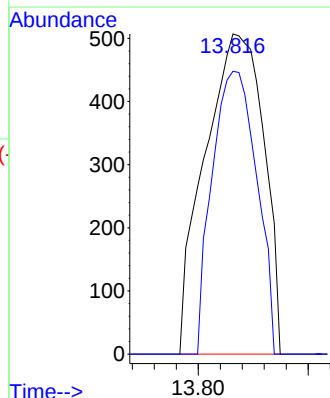
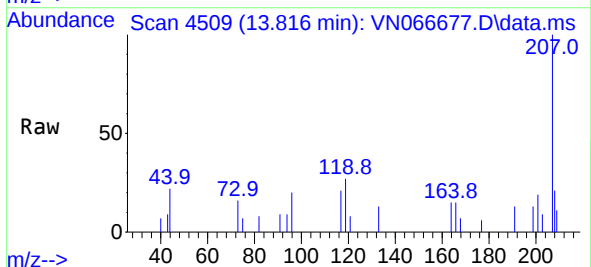
Manual Integrations
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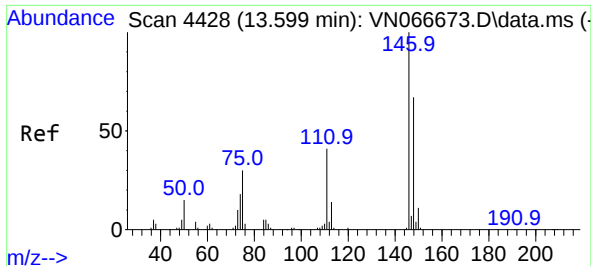
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#86
Hexachloroethane
Concen: 0.45 ug/l
RT: 13.816 min Scan# 4509
Delta R.T. -0.000 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:	117	Resp:	942
Ion	Ratio	Lower	Upper
117	100		
201	66.7	43.3	129.8





#87

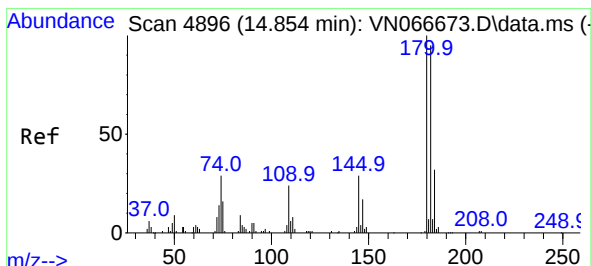
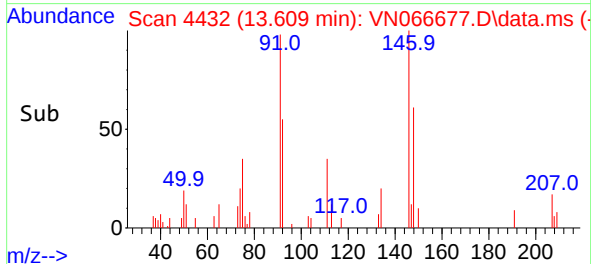
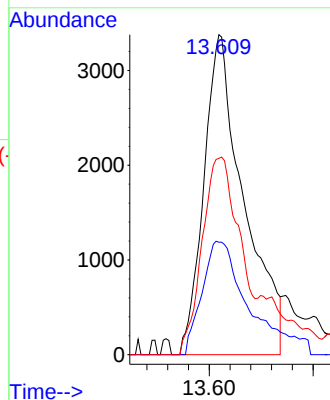
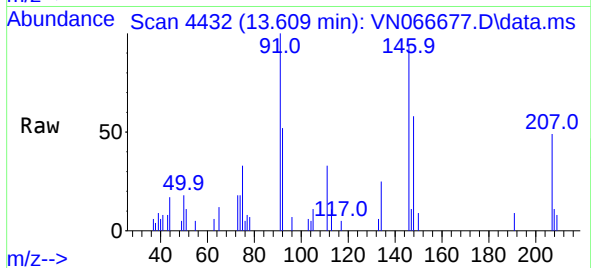
1,2-Dichlorobenzene
Concen: 1.77 ug/l
RT: 13.609 min Scan# 4432
Delta R.T. 0.010 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:	146	Resp:	9049
Ion Ratio	Lower	Upper	
146	100		
111	39.8	20.3	60.9
148	57.5	32.0	96.0

Instrument :
MSVOA_N
ClientSampled :
IBLK

Manual Integrations
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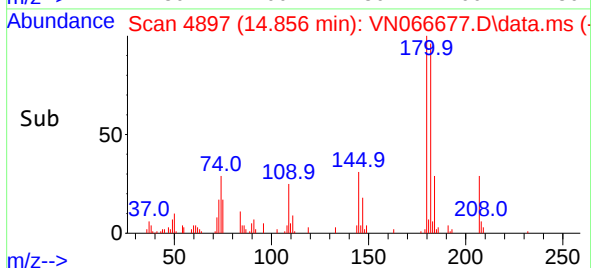
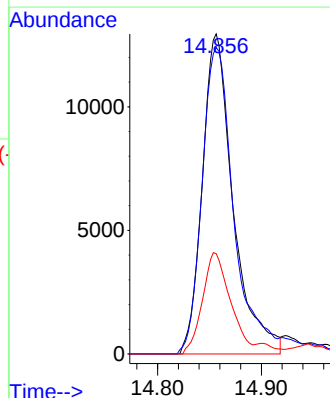
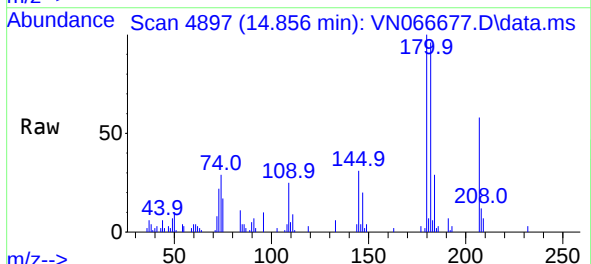
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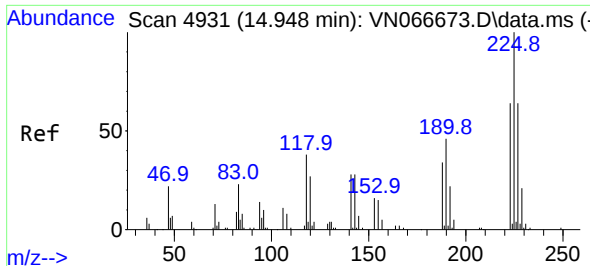


#89

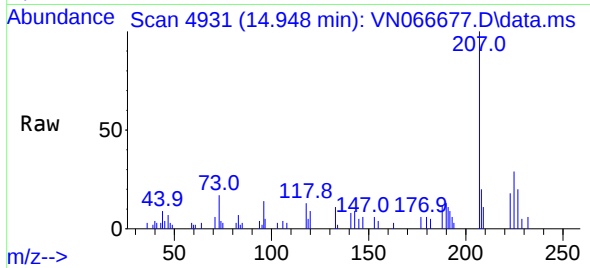
1,2,4-Trichlorobenzene
Concen: 9.03 ug/l
RT: 14.856 min Scan# 4897
Delta R.T. 0.002 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41

Tgt Ion:	180	Resp:	26665
Ion Ratio	Lower	Upper	
180	100		
182	98.2	74.3	111.5
145	28.6	23.4	35.0

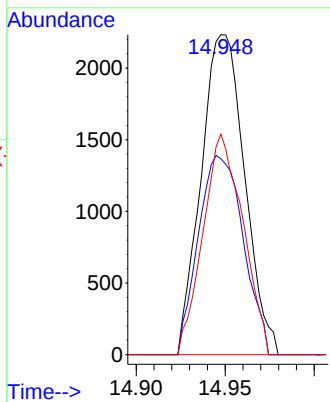
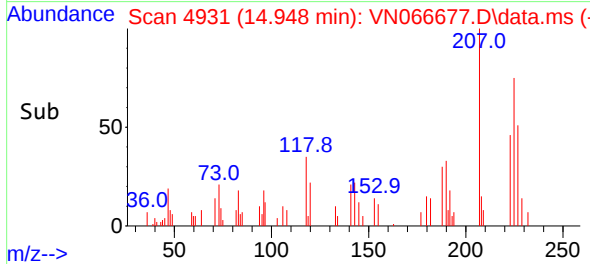




#90
Hexachlorobutadiene
Concen: 2.30 ug/l
RT: 14.948 min Scan# 4931
Delta R.T. -0.000 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



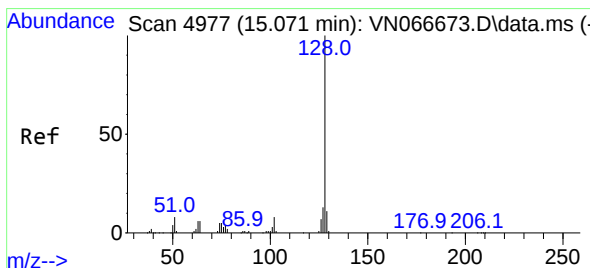
Tgt Ion: 225 Resp: 3801
Ion Ratio Lower Upper
225 100
223 64.1 0.0 124.6
227 63.1 0.0 126.6



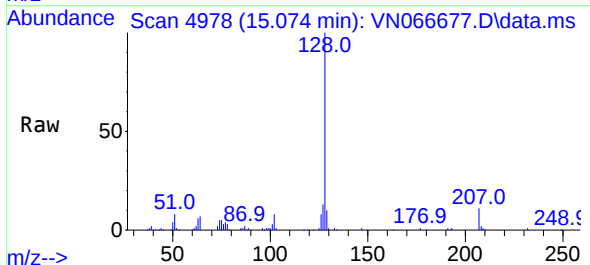
Instrument :
MSVOA_N
ClientSampled :
IBLK

Manual Integrations
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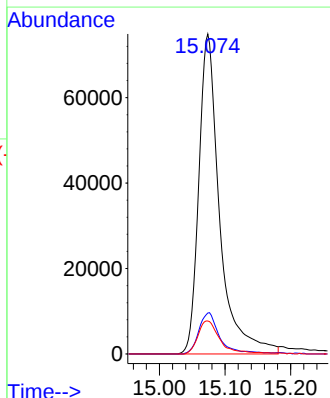
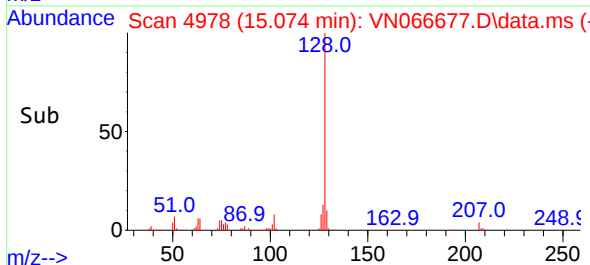
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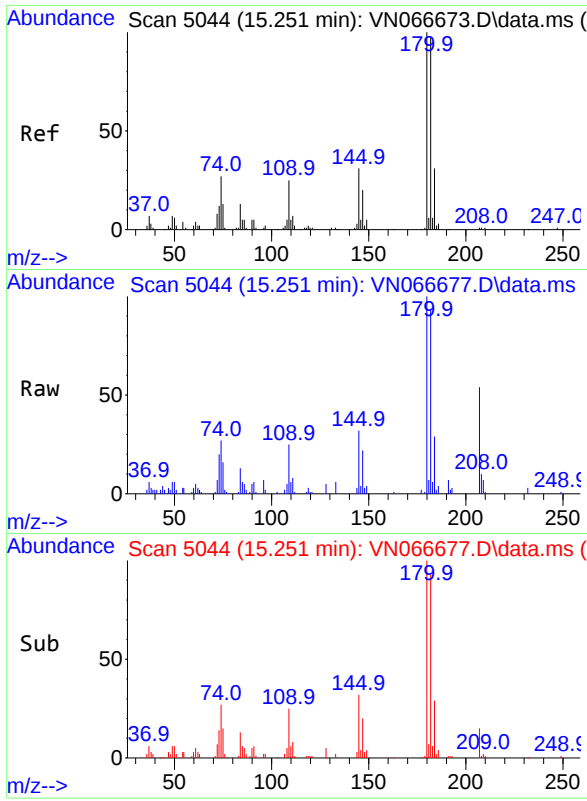


#91
Naphthalene
Concen: 23.28 ug/l
RT: 15.074 min Scan# 4978
Delta R.T. 0.003 min
Lab File: VN066677.D
Acq: 20 Apr 2021 12:41



Tgt Ion: 128 Resp: 165194
Ion Ratio Lower Upper
128 100
127 12.3 10.2 15.2
129 10.4 8.6 13.0





#92
 1,2,3-Trichlorobenzene
 Concen: 12.55 ug/l
 RT: 15.251 min Scan# 5044
 Delta R.T. -0.000 min
 Lab File: VN066677.D
 Acq: 20 Apr 2021 12:41

Tgt Ion:	180	Resp:	35016
Ion Ratio	Lower	Upper	
180	100		
182	95.1	0.0	190.0
145	31.7	0.0	60.8

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Manual Integrations
 APPROVED

MMDadoda
 4/21/2021 4:34:50 PM

