

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042221\
 Data File : VN066713.D
 Acq On : 22 Apr 2021 14:39
 Operator : JC/MD
 Sample : M2135-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 210421085-02-VOA

Manual Integrations
 APPROVED

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Quant Time: Apr 23 06:30:19 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	7.111	128	50243	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	265696	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	229504	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	106724	29.48	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.27%		
60) 4-Bromofluorobenzene	12.349	95	88993	24.74	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	82.47%		
63) Toluene-d8	10.029	98	320847	30.38	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.27%		
Target Compounds						Qvalue
8) Diethyl Ether	3.356	74	18583	10.24	ug/l	93
15) Acetone	3.764	58	1854m	4.52	ug/l	
23) tert-Butyl Alcohol	4.697	59	120245	225.83	ug/l #	100
24) Methyl tert-Butyl Ether	4.949	73	6446m	0.71	ug/l	
30) 2-Butanone	6.730	43	8979m	4.45	ug/l	
34) Benzene	7.966	78	24765	1.84	ug/l #	1
45) 1,4-Dioxane	9.136	88	7242	134.35	ug/l	98
58) 4-Methyl-2-Pentanone	9.914	43	5110m	1.31	ug/l	
62) Toluene	10.096	91	17038	1.31	ug/l	98
64) Chlorobenzene	11.375	112	103462	13.28	ug/l	98
66) Ethyl Benzene	11.456	91	40833	2.93	ug/l	96
67) m/p-Xylenes	11.568	106	18194	3.48	ug/l	93
68) o-Xylene	11.893	106	18584	3.67	ug/l	95
70) Isopropylbenzene	12.196	105	15311	1.16	ug/l	100
74) n-propylbenzene	12.547	91	5455	0.36	ug/l	91
75) 2-Chlorotoluene	12.622	91	6081	0.66	ug/l	76
76) 1,3,5-Trimethylbenzene	12.679	105	5674	0.51	ug/l	90
80) 1,2,4-Trimethylbenzene	12.987	105	20804	1.94	ug/l	94
84) 1,4-Dichlorobenzene	13.314	146	47677	8.88	ug/l	95
91) Naphthalene	15.076	128	52107	6.87	ug/l	99

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

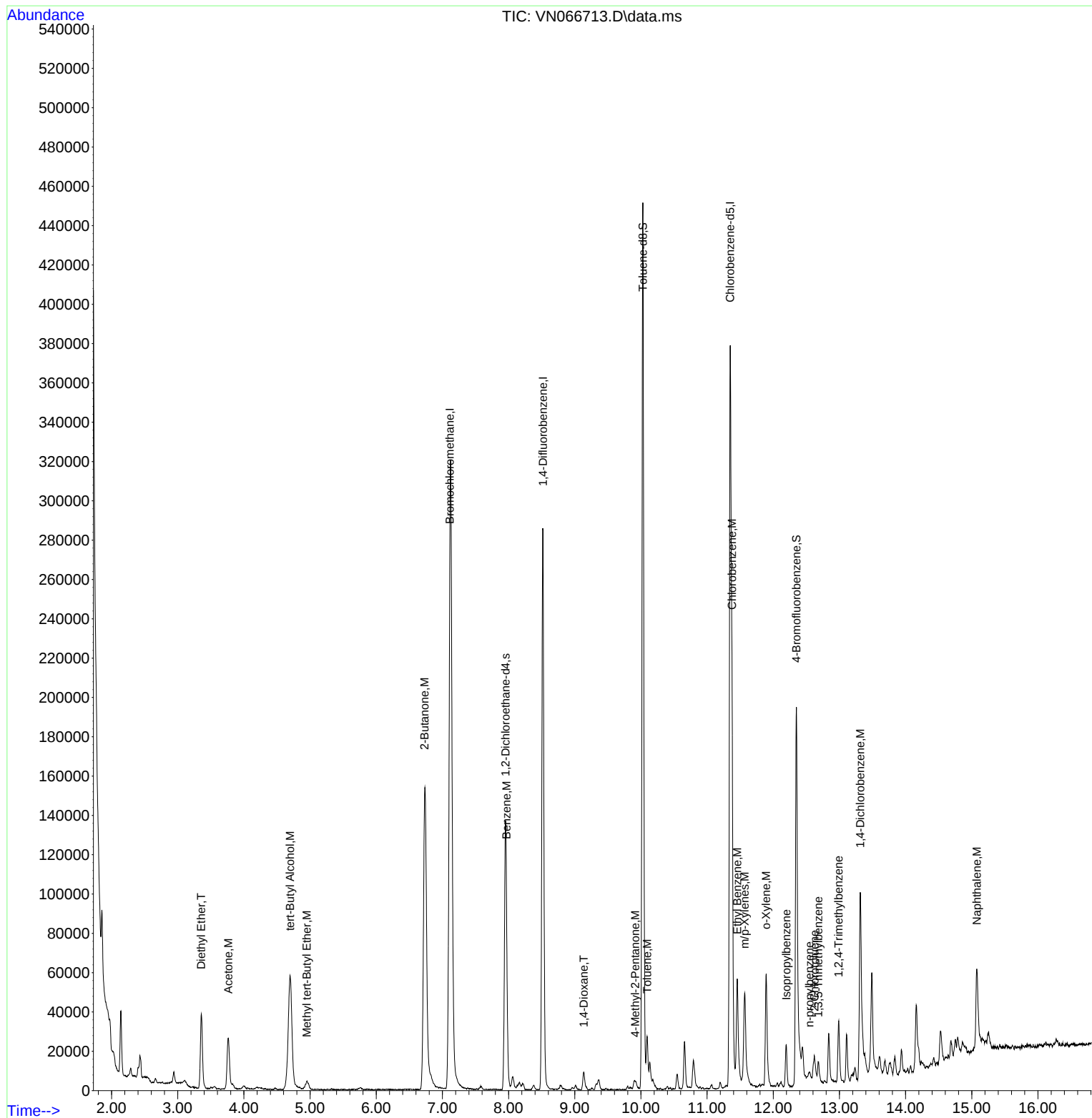
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042221\
Data File : VN066713.D
Acq On : 22 Apr 2021 14:39
Operator : JC/MD
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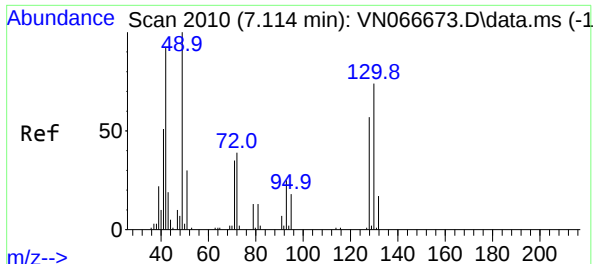
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Quant Time: Apr 23 06:30:19 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration





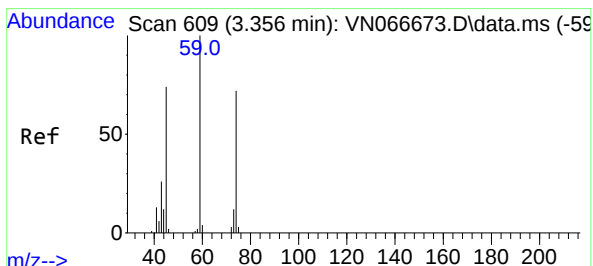
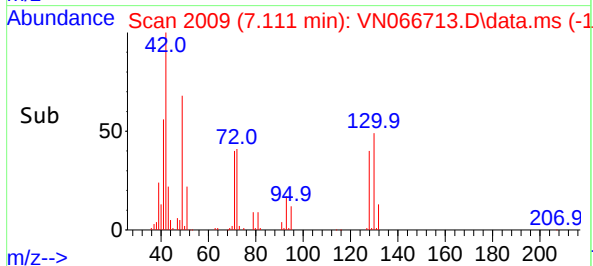
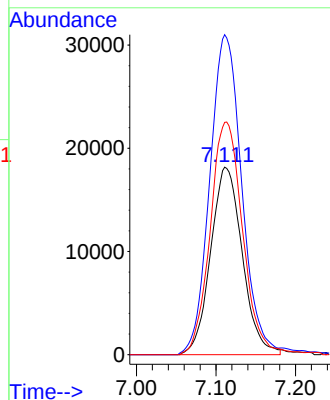
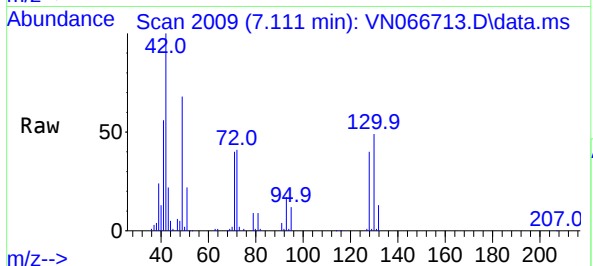
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.111 min Scan# 2009
Delta R.T. -0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

Tgt Ion:128 Resp: 50243
Ion Ratio Lower Upper
128 100
49 171.7 0.0 429.3
130 127.8 0.0 328.5

Instrument :
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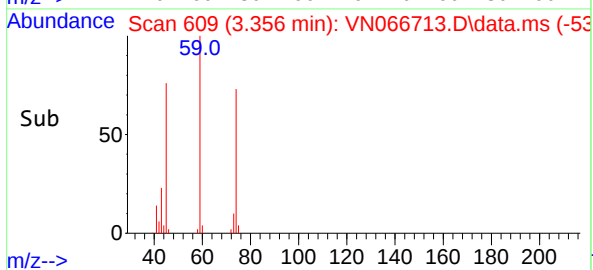
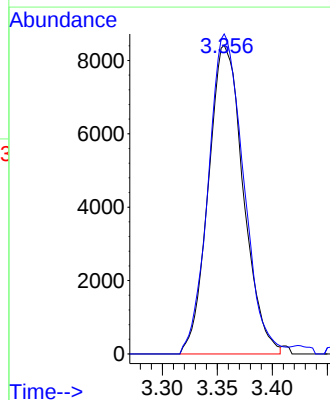
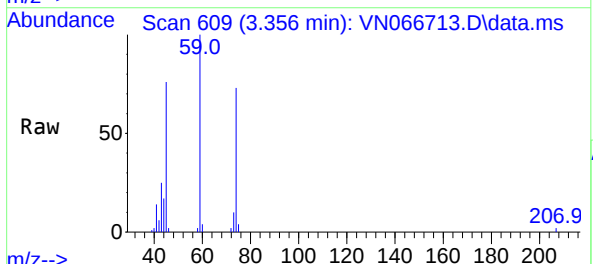
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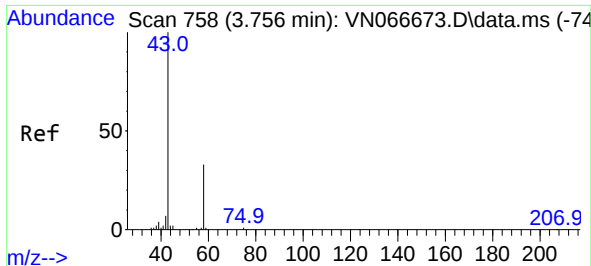
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#8
Diethyl Ether
Concen: 10.24 ug/l
RT: 3.356 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

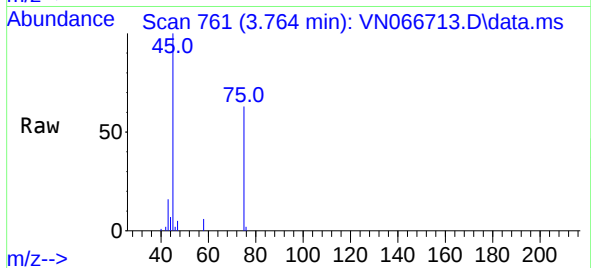
Tgt Ion: 74 Resp: 18583
Ion Ratio Lower Upper
74 100
45 104.5 19.6 176.4





#15
Acetone
Concen: 4.52 ug/l m
RT: 3.764 min Scan# 761
Delta R.T. 0.008 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

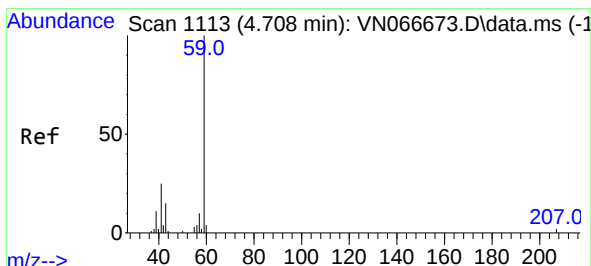
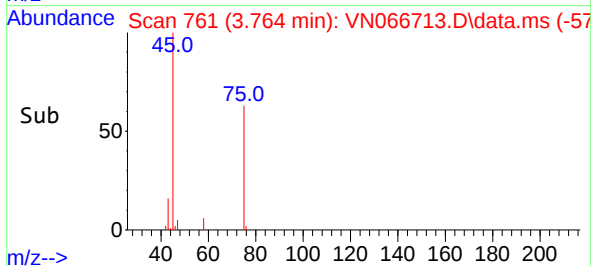
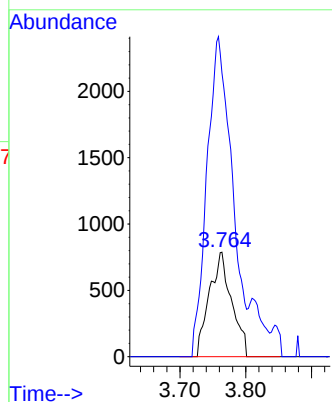
Instrument :
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Tgt Ion: 58 Resp: 1854
Ion Ratio Lower Upper
58 100
43 271.3 267.3 400.9

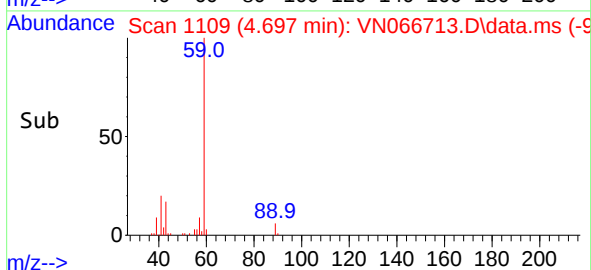
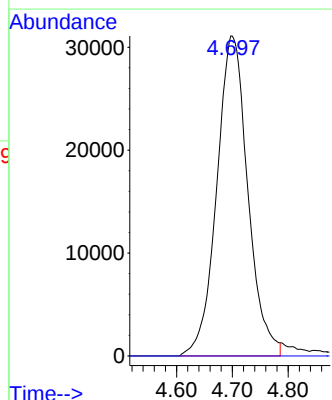
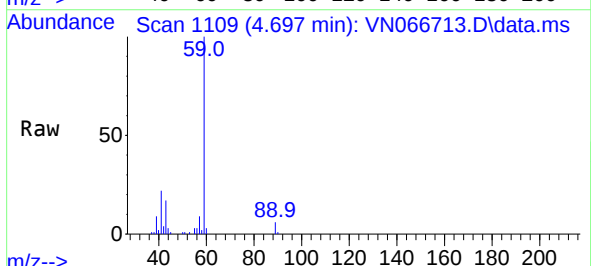
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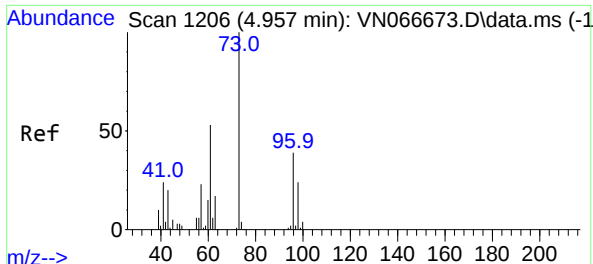
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#23
tert-Butyl Alcohol
Concen: 225.83 ug/l
RT: 4.697 min Scan# 1109
Delta R.T. -0.011 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

Tgt Ion: 59 Resp: 120245
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#24

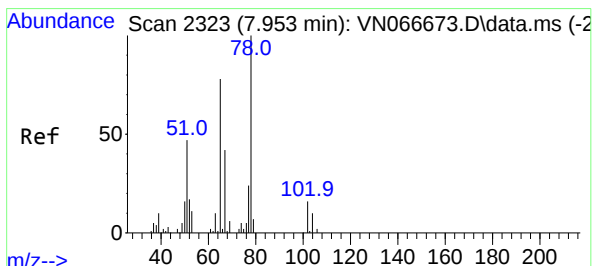
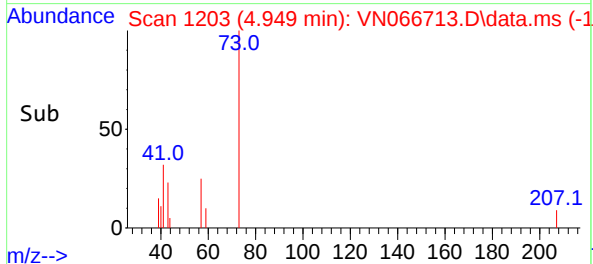
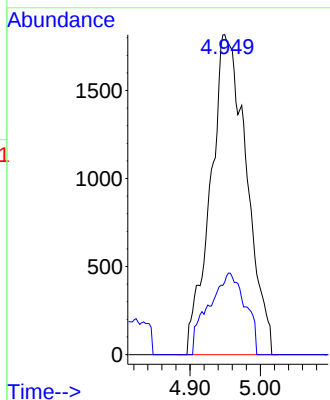
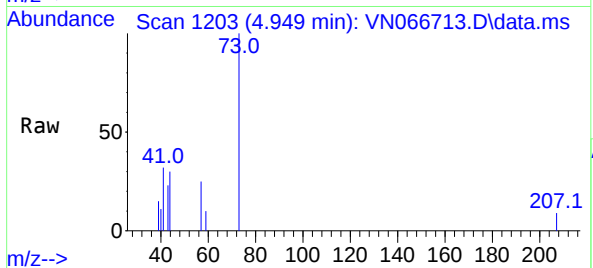
Methyl tert-Butyl Ether
 Concen: 0.71 ug/l m
 RT: 4.949 min Scan# 1203
 Delta R.T. -0.008 min
 Lab File: VN066713.D
 Acq: 22 Apr 2021 14:39

Tgt Ion: 73 Resp: 6446
 Ion Ratio Lower Upper
 73 100
 43 0.5 18.5 27.7#

Instrument :
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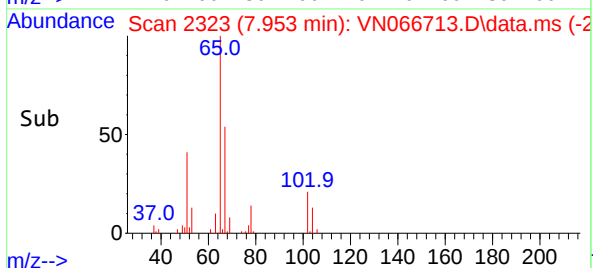
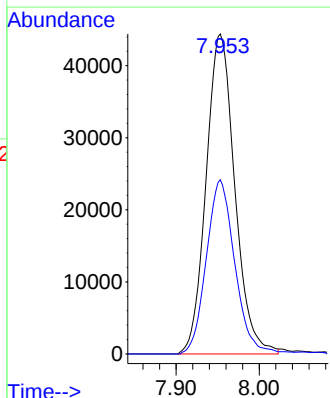
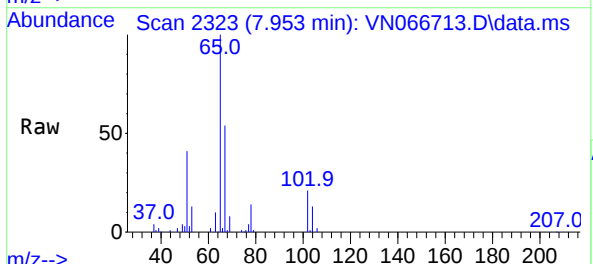
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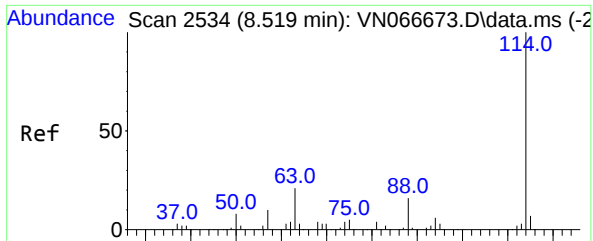


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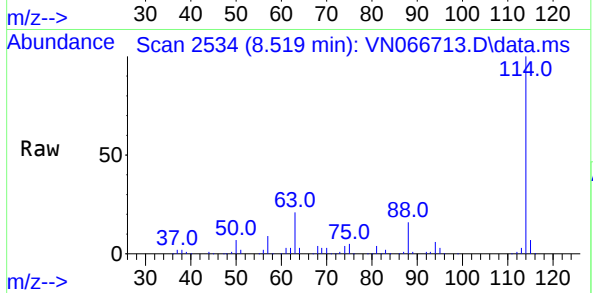
1,2-Dichloroethane-d4
 Concen: 29.48 ug/l
 RT: 7.953 min Scan# 2323
 Delta R.T. 0.000 min
 Lab File: VN066713.D
 Acq: 22 Apr 2021 14:39

Tgt Ion: 65 Resp: 106724
 Ion Ratio Lower Upper
 65 100
 67 53.8 42.2 63.4

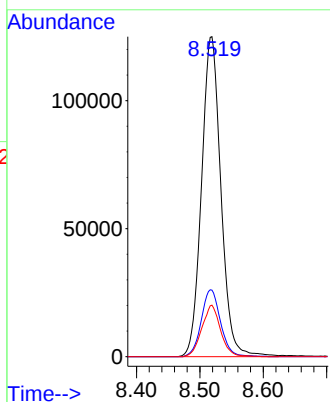
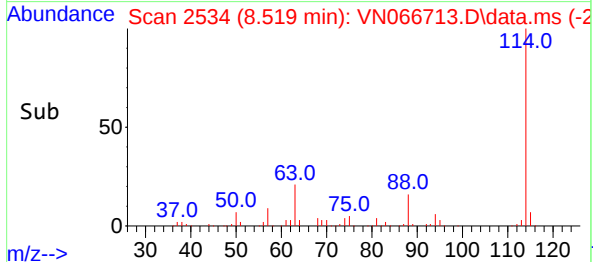




#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. -0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39



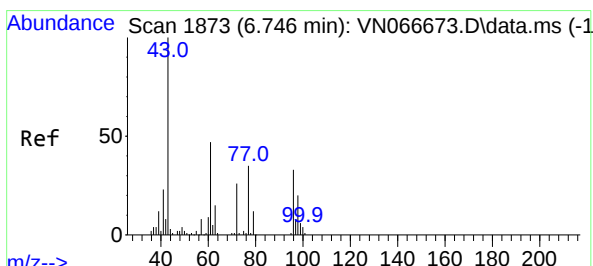
Tgt Ion: 114 Resp: 265696
Ion Ratio Lower Upper
114 100
63 20.8 17.4 26.0
88 15.5 12.6 19.0



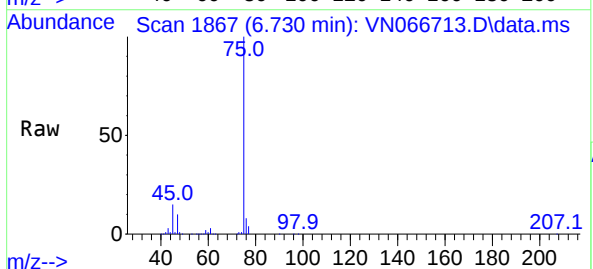
Instrument :
MSVOA_N
ClientSampleId :
210421085-02-VOA

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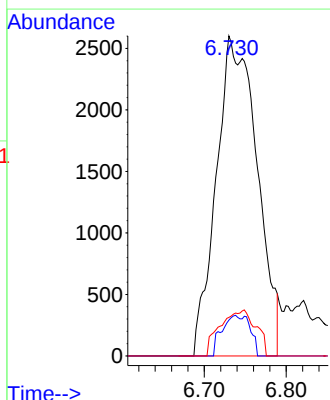
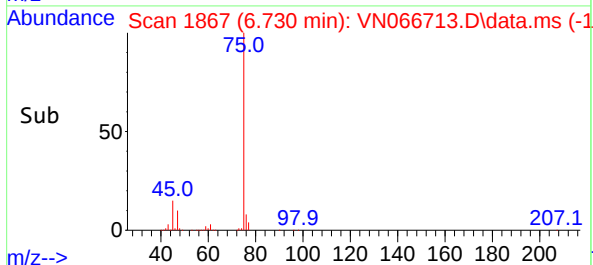
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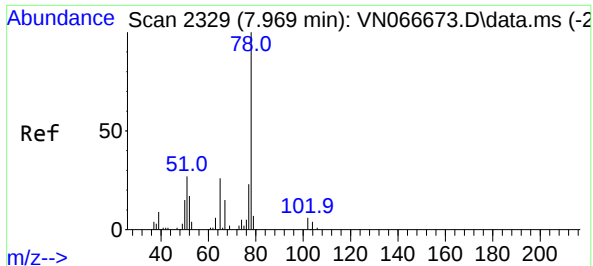


#30
2-Butanone
Concen: 4.45 ug/l m
RT: 6.730 min Scan# 1867
Delta R.T. -0.016 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39



Tgt Ion: 43 Resp: 8979
Ion Ratio Lower Upper
43 100
57 2.5 6.9 10.3#
72 6.6 20.9 31.3#





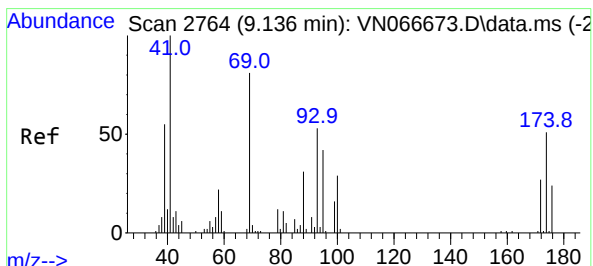
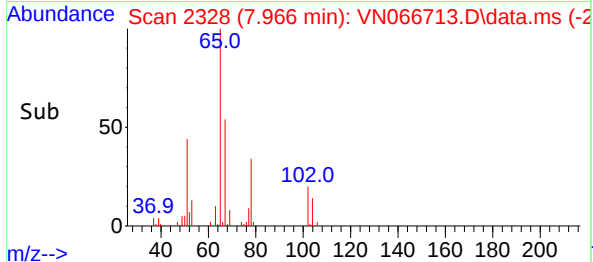
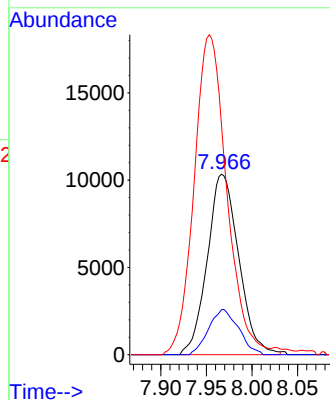
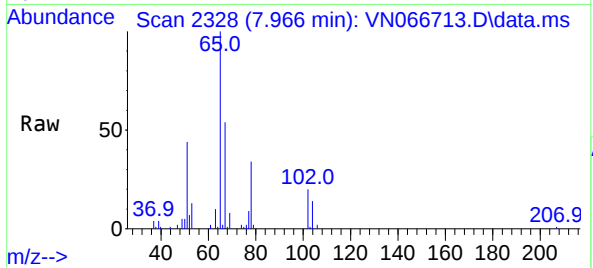
#34
Benzene
Concen: 1.84 ug/l
RT: 7.966 min Scan# 2328
Delta R.T. -0.003 min
Lab File: VN066713.D
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Tgt Ion: 78	Resp: 24765
Ion Ratio	Lower Upper
78 100	
77 24.9	18.6 27.8
51 124.3	21.9 32.9#

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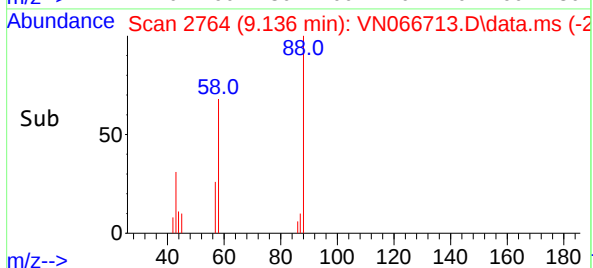
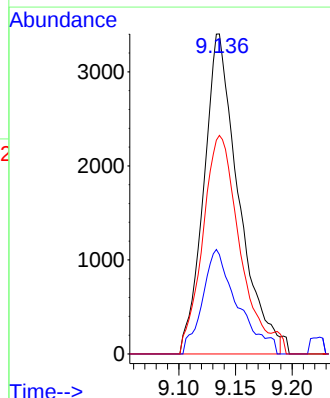
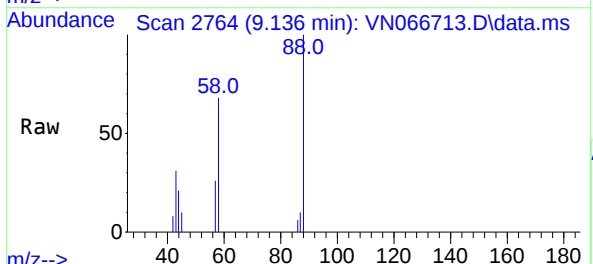
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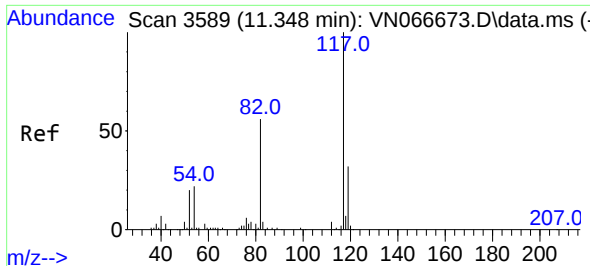
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#45
1,4-Dioxane
Concen: 134.35 ug/l
RT: 9.136 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

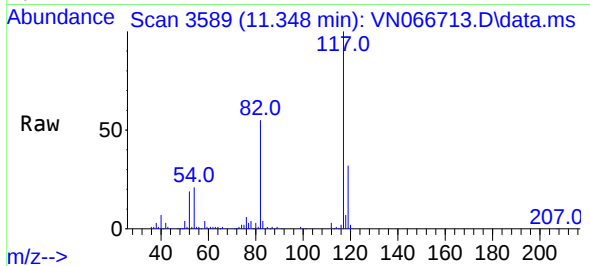
Tgt Ion: 88	Resp: 7242
Ion Ratio	Lower Upper
88 100	
43 30.6	27.0 40.4
58 71.8	57.9 86.9





#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.348 min Scan# 3589
Delta R.T. 0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

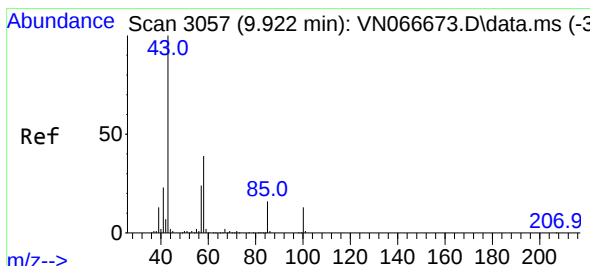
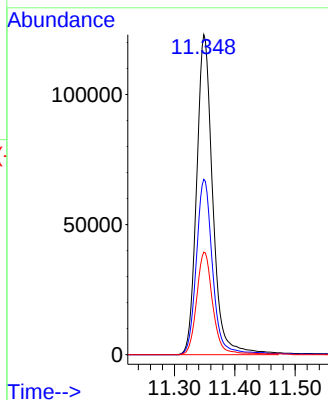
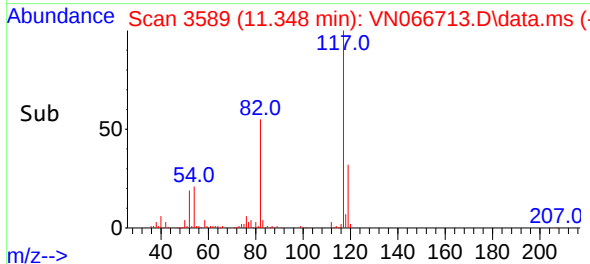
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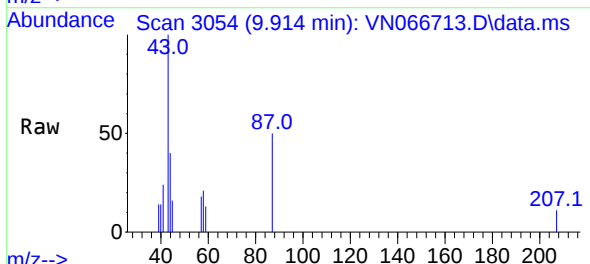
Tgt Ion: 117 Resp: 229504
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.6
119 31.7 25.5 38.3

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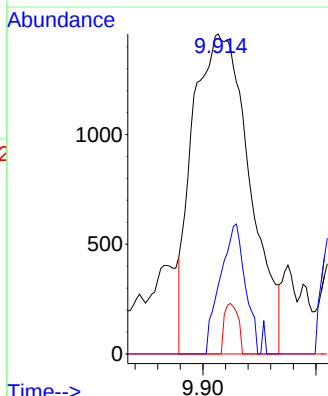
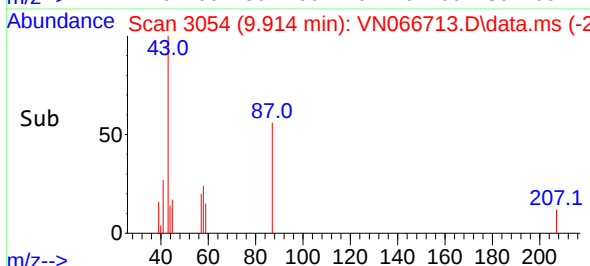
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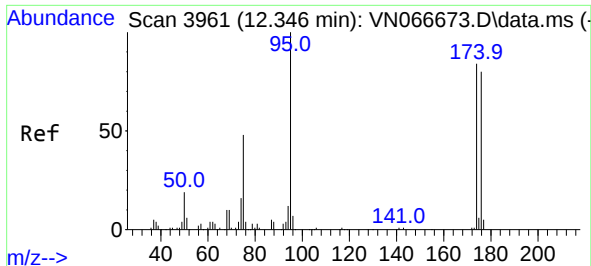


#58
4-Methyl-2-Pentanone
Concen: 1.31 ug/l m
RT: 9.914 min Scan# 3054
Delta R.T. -0.008 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39



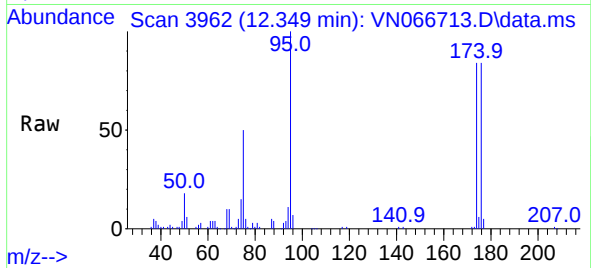
Tgt Ion: 43 Resp: 5110
Ion Ratio Lower Upper
43 100
58 17.8 30.4 45.6#
85 3.7 13.8 20.8#





#60
4-Bromofluorobenzene
Concen: 24.74 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

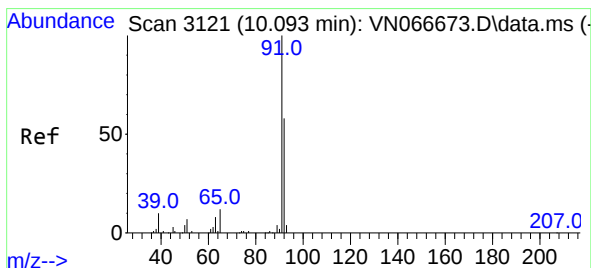
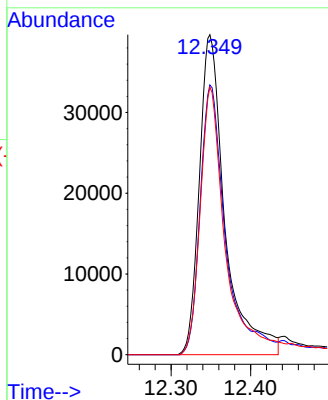
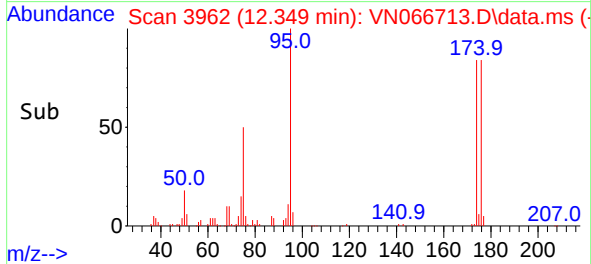
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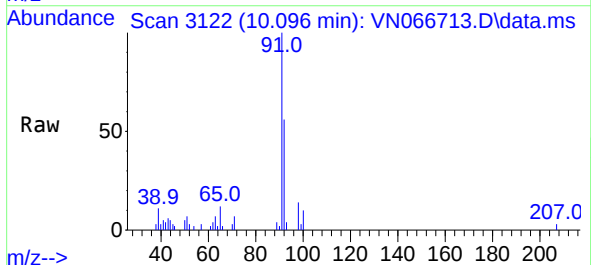
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Ion Ratio Lower Upper
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174 79.5 68.1 102.1
176 82.0 65.4 98.0

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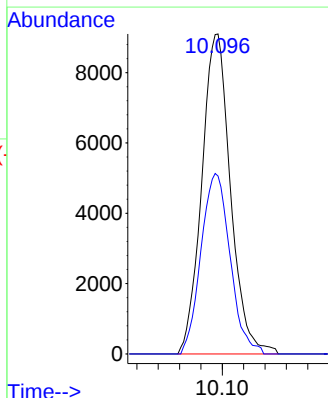
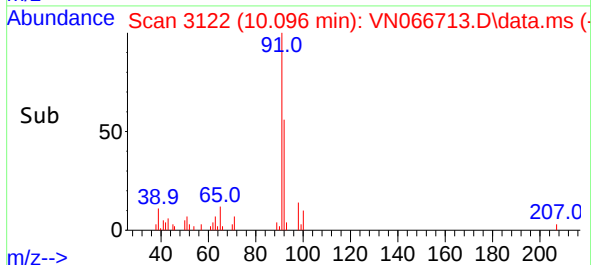
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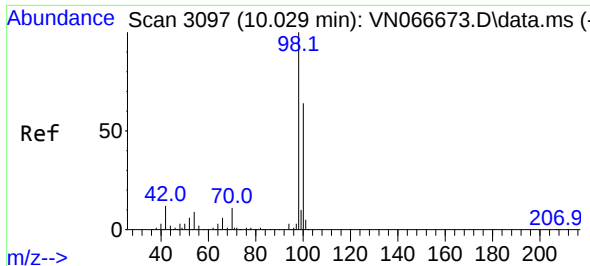


#62
Toluene
Concen: 1.31 ug/l
RT: 10.096 min Scan# 3122
Delta R.T. 0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

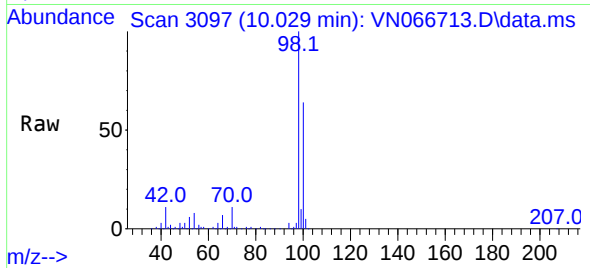


Tgt Ion: 91 Resp: 17038
Ion Ratio Lower Upper
91 100
92 56.6 46.2 69.2

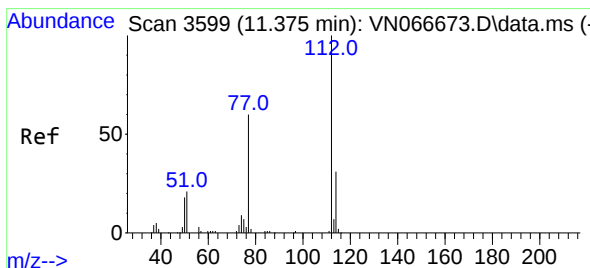
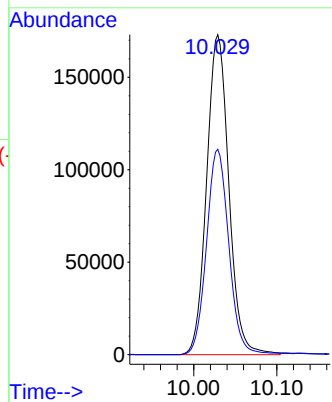
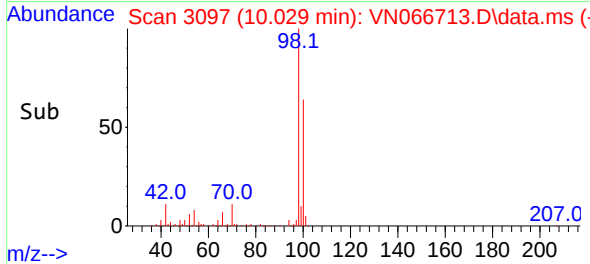




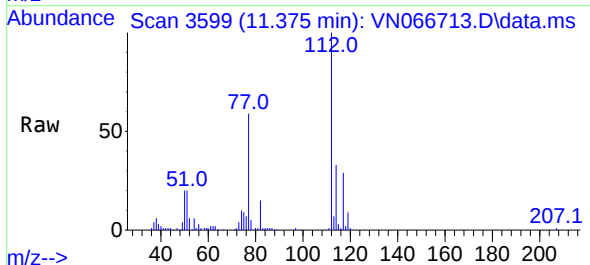
#63
Toluene-d8
Concen: 30.38 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39



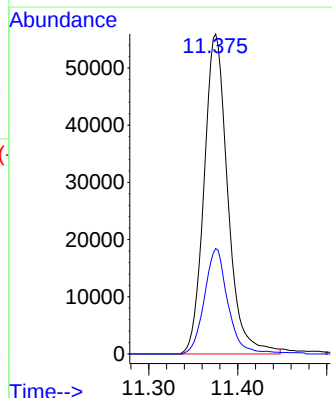
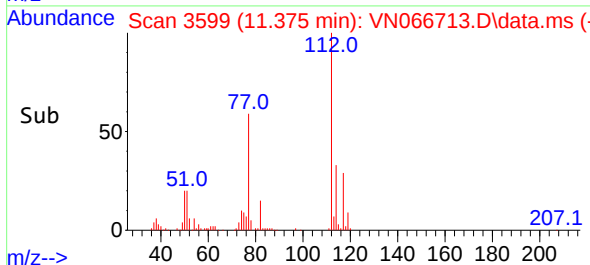
Tgt Ion: 98 Resp: 320847
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



#64
Chlorobenzene
Concen: 13.28 ug/l
RT: 11.375 min Scan# 3599
Delta R.T. 0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39



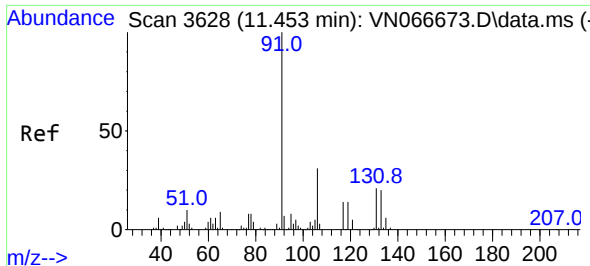
Tgt Ion: 112 Resp: 103462
Ion Ratio Lower Upper
112 100
114 33.0 25.6 38.4



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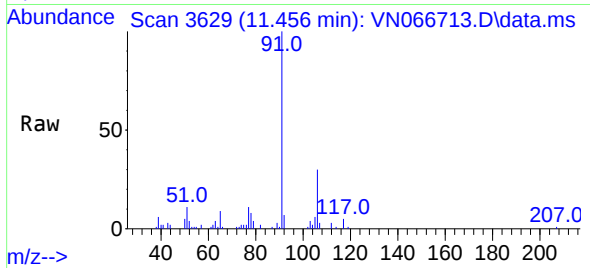
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#66
Ethyl Benzene
Concen: 2.93 ug/l
RT: 11.456 min Scan# 3629
Delta R.T. 0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

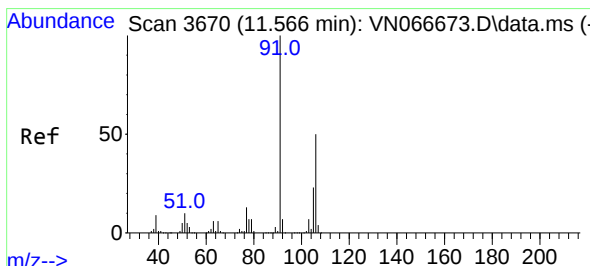
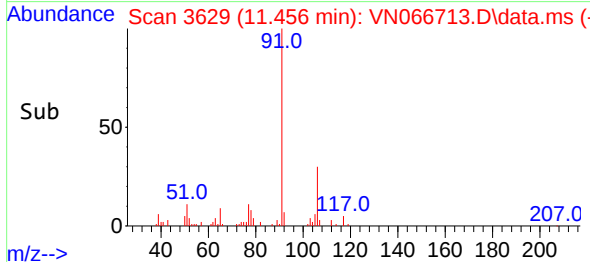
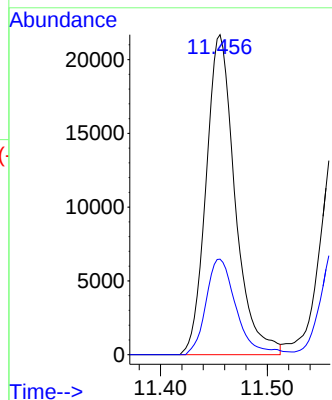
Instrument :
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ClientSampleId :
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Tgt Ion: 91 Resp: 40833
Ion Ratio Lower Upper
91 100
106 29.9 25.5 38.3

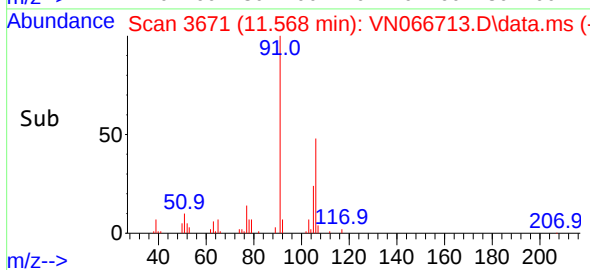
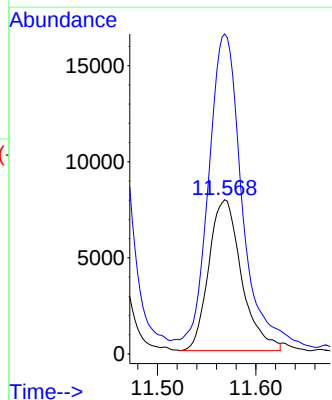
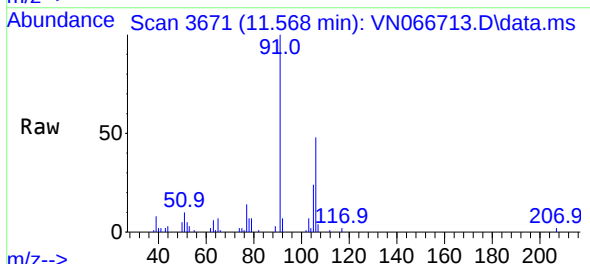
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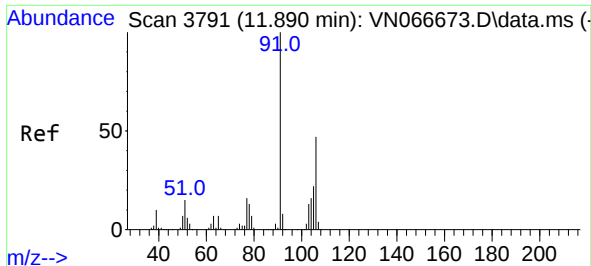
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#67
m/p-Xylenes
Concen: 3.48 ug/l
RT: 11.568 min Scan# 3671
Delta R.T. 0.002 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

Tgt Ion: 106 Resp: 18194
Ion Ratio Lower Upper
106 100
91 217.3 164.8 247.2





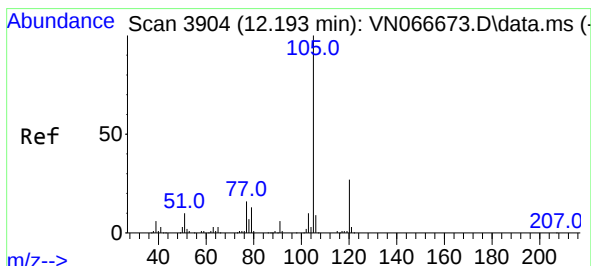
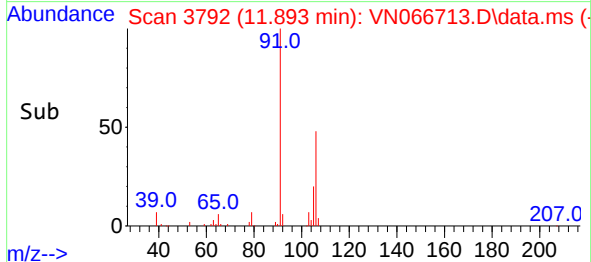
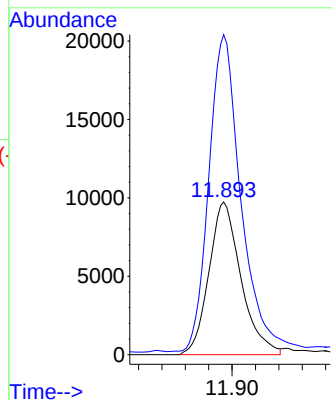
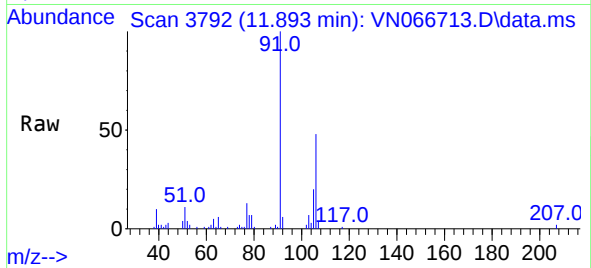
#68
o-Xylene
Concen: 3.67 ug/l
RT: 11.893 min Scan# 3792
Delta R.T. 0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

Tgt Ion:106 Resp: 18584
Ion Ratio Lower Upper
106 100
91 206.7 107.1 321.4

Instrument :
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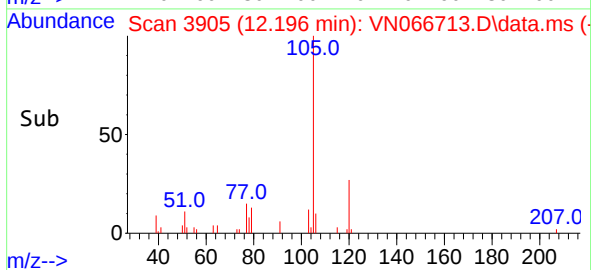
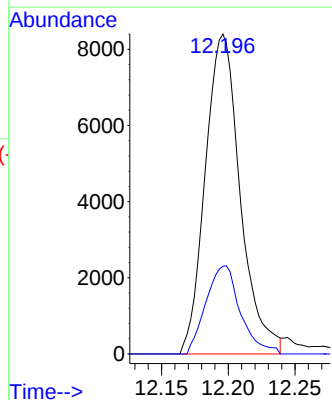
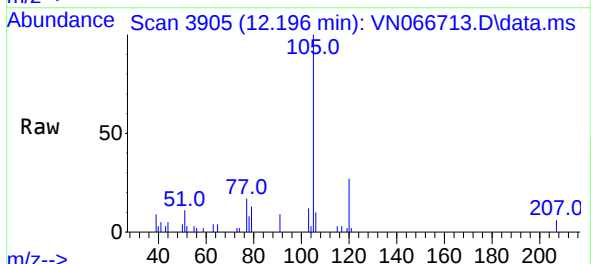
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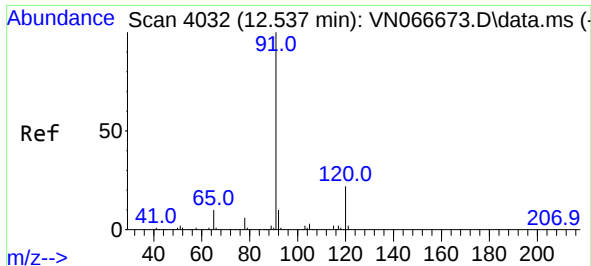
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#70
Isopropylbenzene
Concen: 1.16 ug/l
RT: 12.196 min Scan# 3905
Delta R.T. 0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

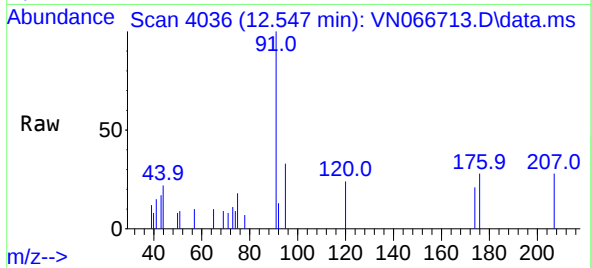
Tgt Ion:105 Resp: 15311
Ion Ratio Lower Upper
105 100
120 26.9 18.7 34.7





#74
n-propylbenzene
Concen: 0.36 ug/l
RT: 12.547 min Scan# 4036
Delta R.T. 0.010 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

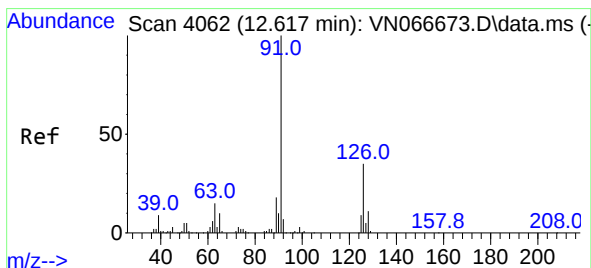
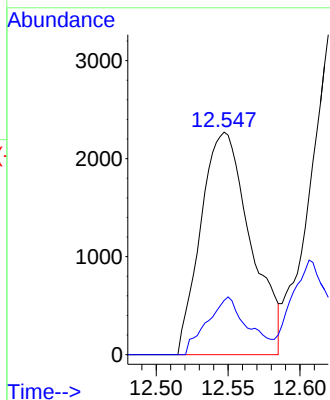
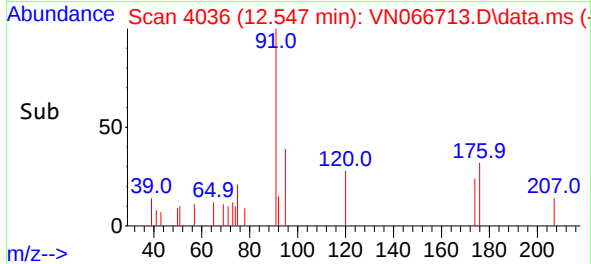
Instrument :
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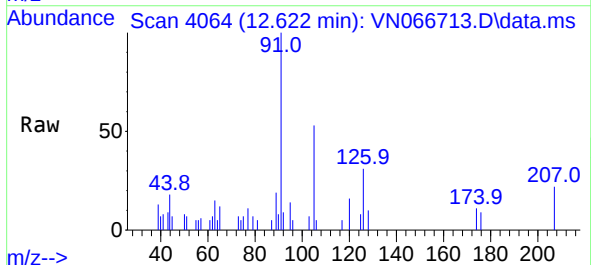
Tgt Ion: 91 Resp: 5455
Ion Ratio Lower Upper
91 100
120 18.1 0.0 45.2

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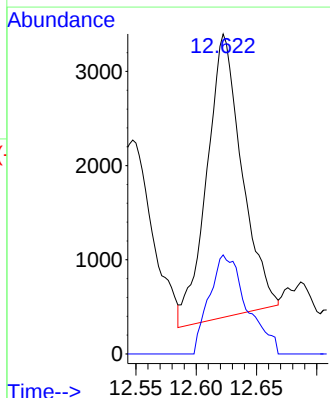
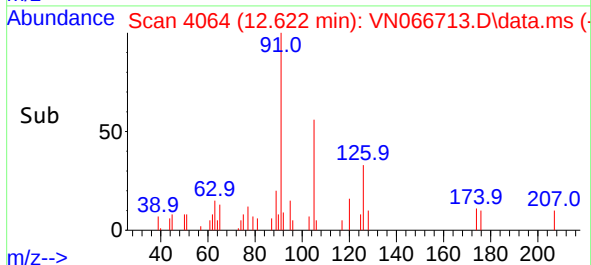
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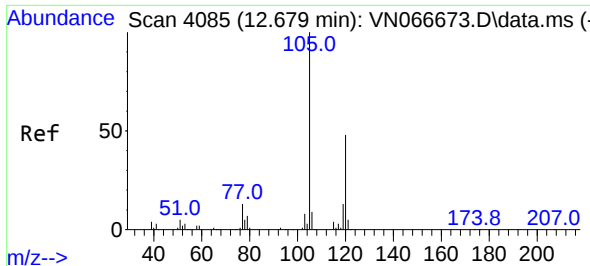


#75
2-Chlorotoluene
Concen: 0.66 ug/l
RT: 12.622 min Scan# 4064
Delta R.T. 0.005 min
Lab File: VN066713.D
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Tgt Ion: 91 Resp: 6081
Ion Ratio Lower Upper
91 100
126 20.6 0.0 68.6





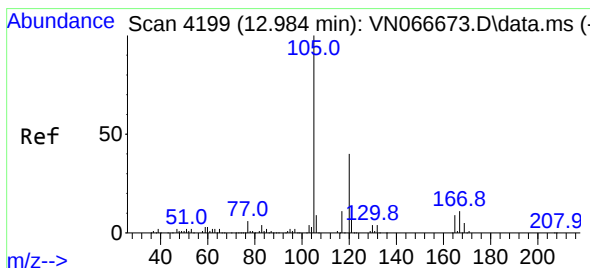
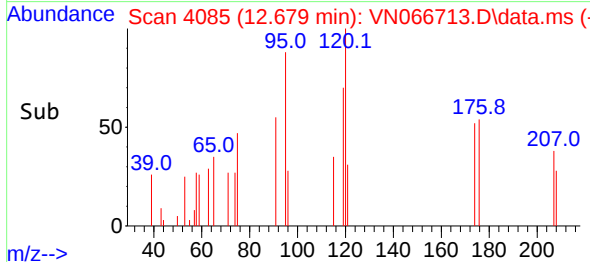
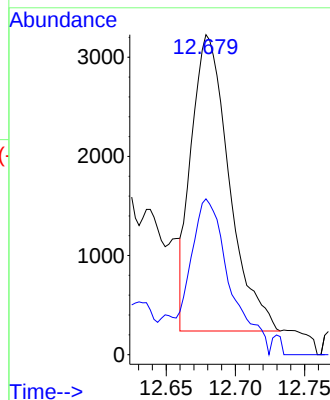
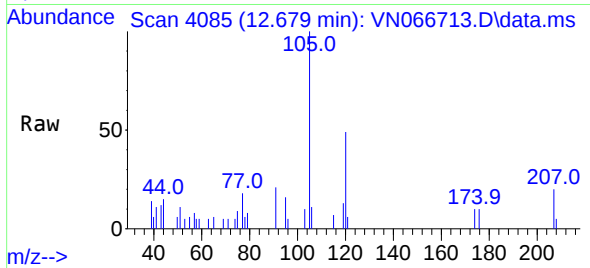
#76
1,3,5-Trimethylbenzene
Concen: 0.51 ug/l
RT: 12.679 min Scan# 4085
Delta R.T. -0.000 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

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Tgt Ion:105 Resp: 5674
Ion Ratio Lower Upper
105 100
120 42.3 0.0 98.2

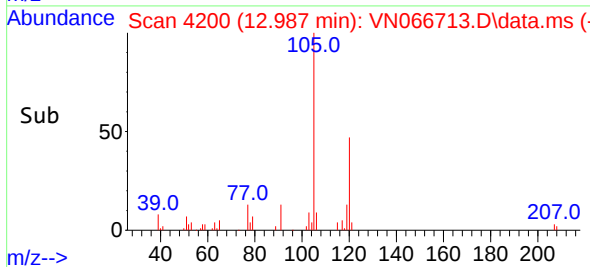
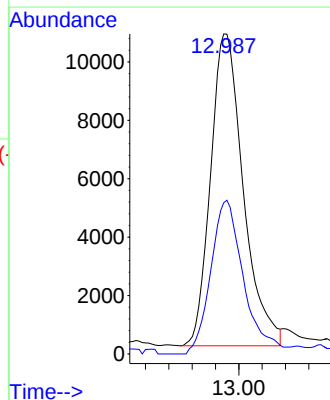
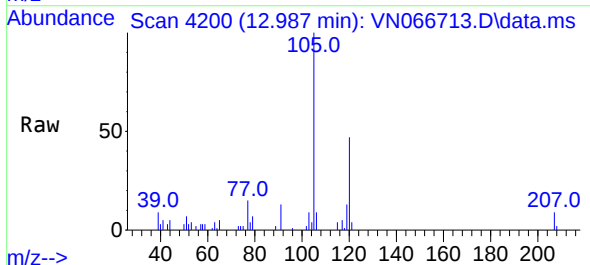
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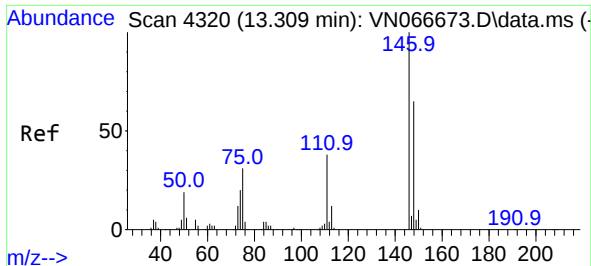
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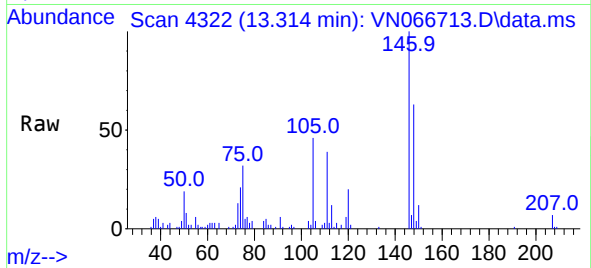
#80
1,2,4-Trimethylbenzene
Concen: 1.94 ug/l
RT: 12.987 min Scan# 4200
Delta R.T. 0.003 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39

Tgt Ion:105 Resp: 20804
Ion Ratio Lower Upper
105 100
120 49.2 0.0 90.6

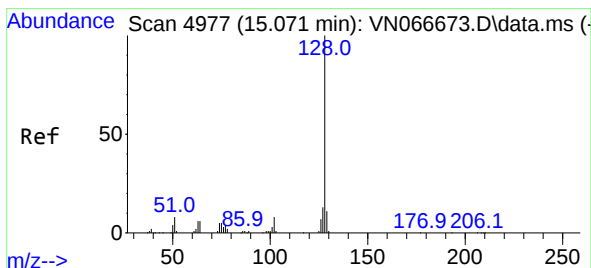
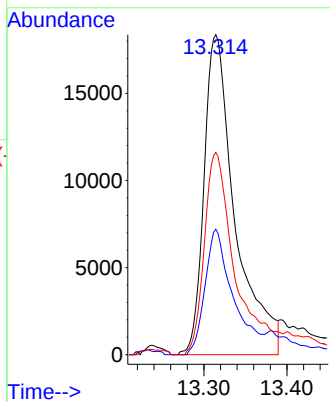
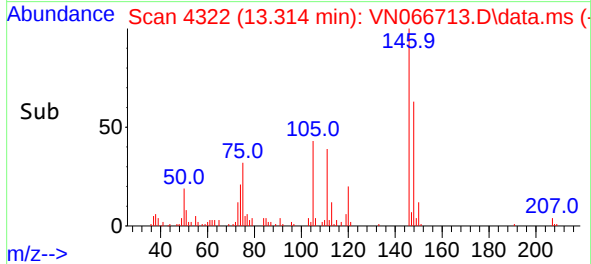




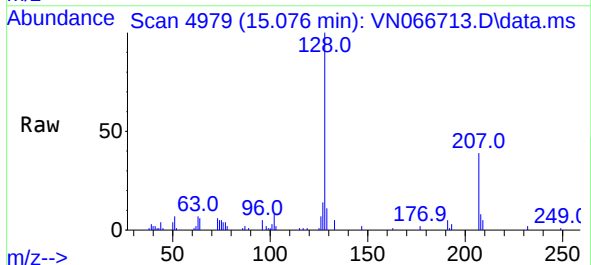
#84
1,4-Dichlorobenzene
Concen: 8.88 ug/l
RT: 13.314 min Scan# 4322
Delta R.T. 0.005 min
Lab File: VN066713.D
Acq: 22 Apr 2021 14:39



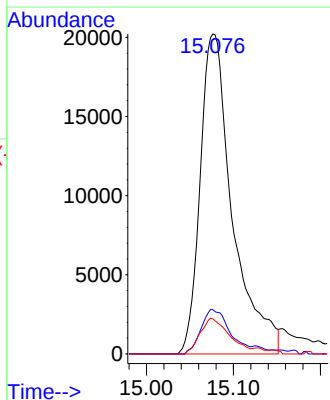
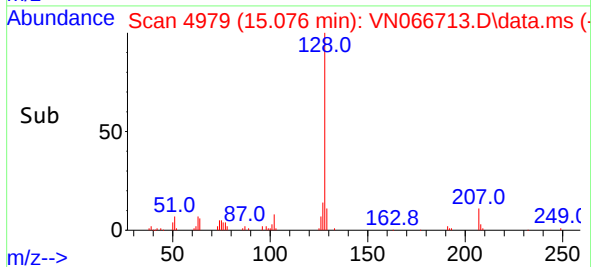
Tgt Ion:146 Resp: 47677
Ion Ratio Lower Upper
146 100
111 35.7 18.4 55.0
148 58.8 31.9 95.5



#91
Naphthalene
Concen: 6.87 ug/l
RT: 15.076 min Scan# 4979
Delta R.T. 0.005 min
Lab File: VN066713.D
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Tgt Ion:128 Resp: 52107
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.1 8.6 13.0



Instrument :
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