

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061121\
 Data File : VN067315.D
 Acq On : 12 Jun 2021 4:25
 Operator : JC/MD
 Sample : M2703-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 210609018-02-VOA

Manual Integrations
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Quant Time: Jun 12 09:30:13 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	63305	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	403938	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	365389	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	217546	32.700	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.000%			
60) 4-Bromofluorobenzene	12.734	95	208140	29.506	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.367%			
63) Toluene-d8	10.443	98	525234	30.141	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.467%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.821	74	5541m	2.037	ug/l	
15) Acetone	4.291	58	206374	345.492	ug/l	99
16) Carbon Disulfide	4.524	76	51229	4.214	ug/l	100
23) tert-Butyl Alcohol	5.385	59	3656295	3453.915	ug/l #	100
30) 2-Butanone	7.337	43	1463024	394.195	ug/l	95
34) Benzene	8.459	78	65340	3.213	ug/l #	61
45) 1,4-Dioxane	9.569	88	7851	86.386	ug/l #	81
58) 4-Methyl-2-Pentanone	10.333	43	32036	3.989	ug/l #	86
62) Toluene	10.505	91	80062	3.661	ug/l	99
64) Chlorobenzene	11.771	112	13508	1.052	ug/l	97
66) Ethyl Benzene	11.846	91	176430	6.948	ug/l	99
67) m/p-Xylenes	11.953	106	57320	6.399	ug/l	96
68) o-Xylene	12.283	106	38621	4.319	ug/l	98
70) Isopropylbenzene	12.581	105	26178	1.136	ug/l	96
74) n-propylbenzene	12.919	91	10572	0.382	ug/l	91
76) 1,3,5-Trimethylbenzene	13.063	105	13145	0.673	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	50654	2.628	ug/l #	67
82) p-Isopropyltoluene	13.619	119	21126	1.204	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	27990	3.227	ug/l	97
91) Naphthalene	15.507	128	572782	39.777	ug/l	99

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

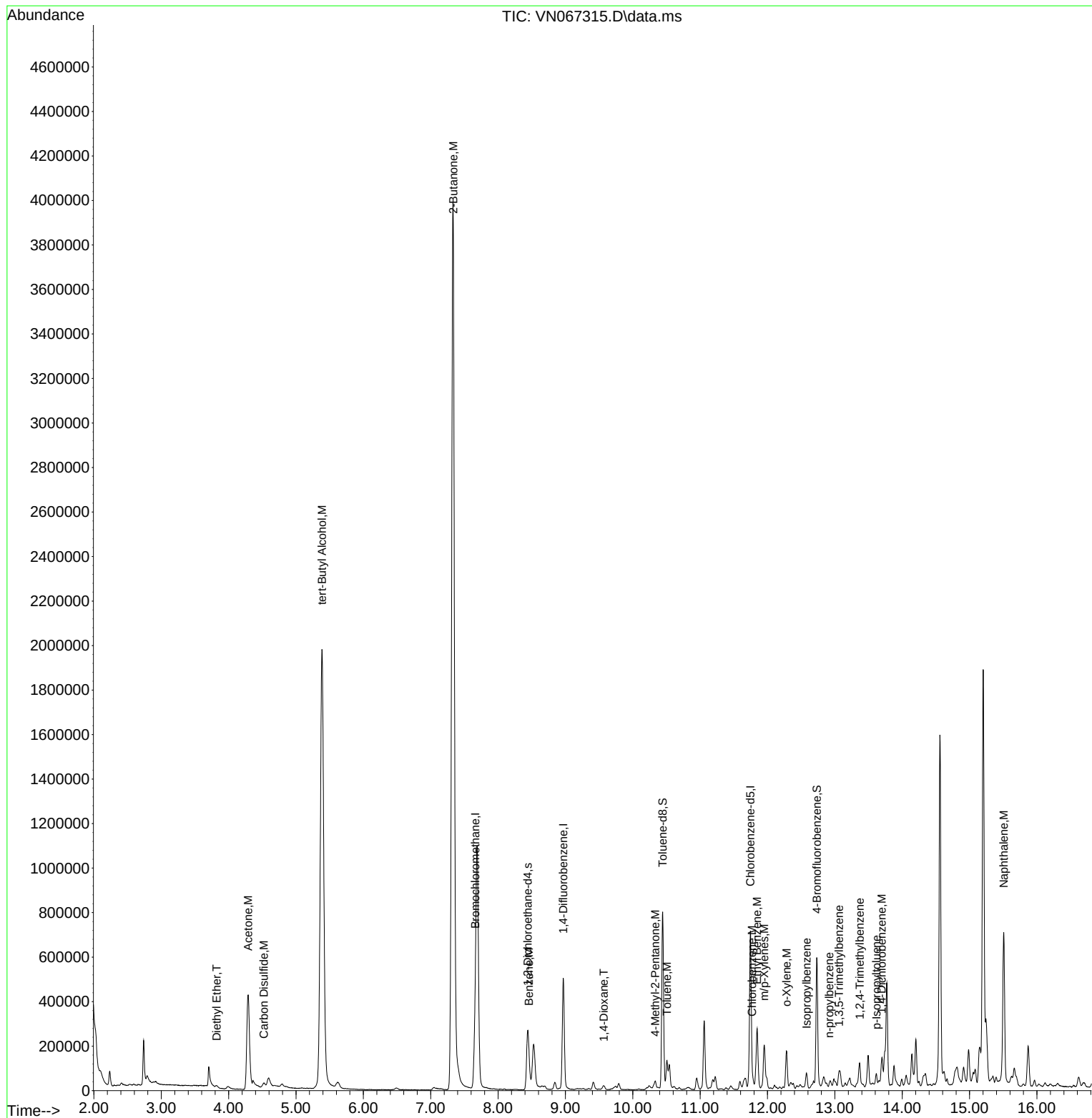
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061121\
Data File : VN067315.D
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Operator : JC/MD
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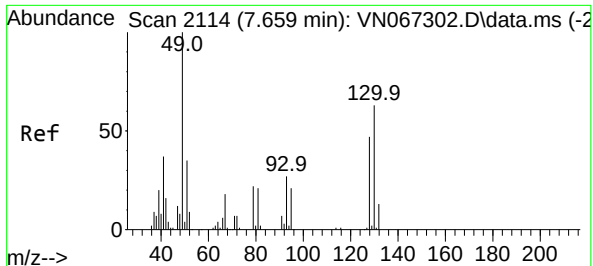
Instrument :
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Manual Integrations
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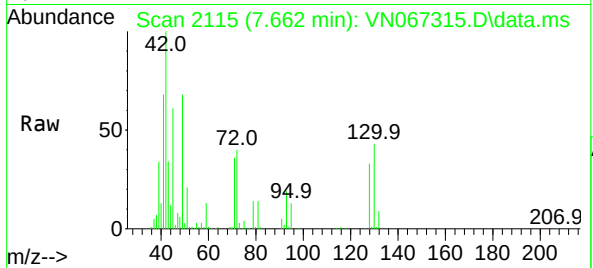
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Quant Time: Jun 12 09:30:13 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N061121W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 12 09:13:15 2021
Response via : Initial Calibration

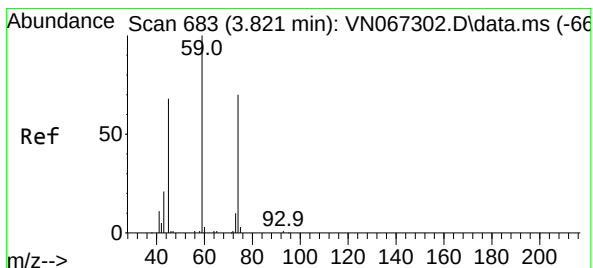
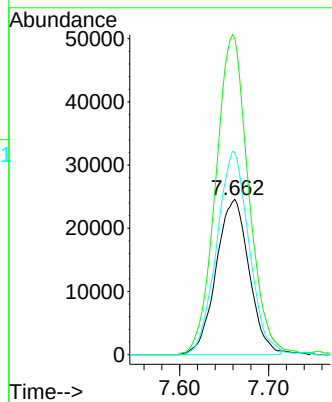
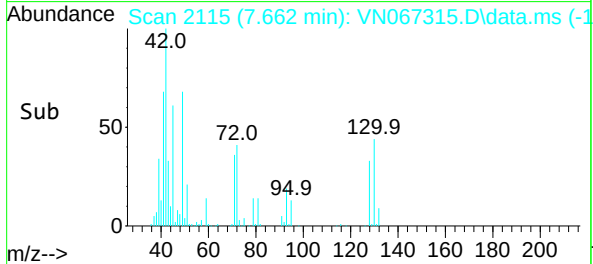




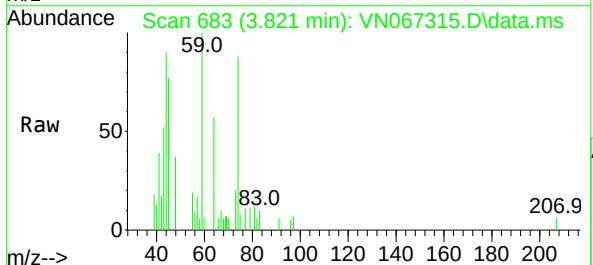
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



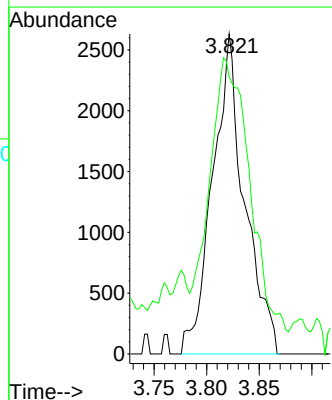
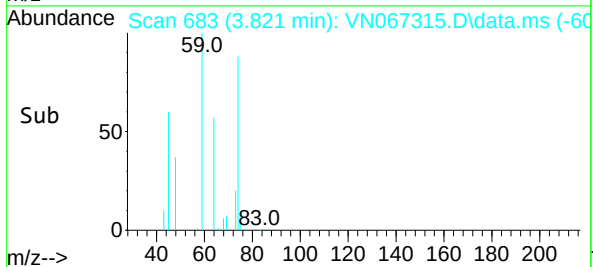
Tgt Ion: 128 Resp: 63305
Ion Ratio Lower Upper
128 100
49 205.0 0.0 517.5
130 128.7 0.0 325.8



#8
Diethyl Ether
Concen: 2.037 ug/l m
RT: 3.821 min Scan# 683
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



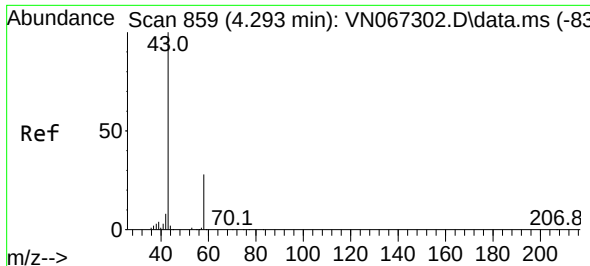
Tgt Ion: 74 Resp: 5541
Ion Ratio Lower Upper
74 100
45 75.5 20.3 182.5



Instrument :
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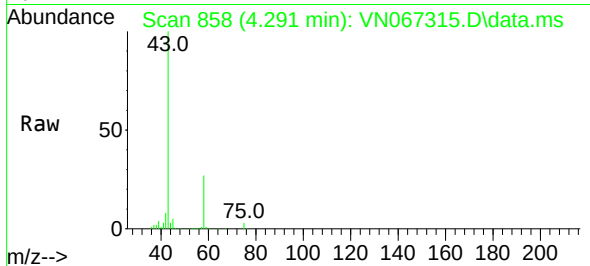
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#15
Acetone
Concen: 345.492 ug/l
RT: 4.291 min Scan# 858
Delta R.T. -0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

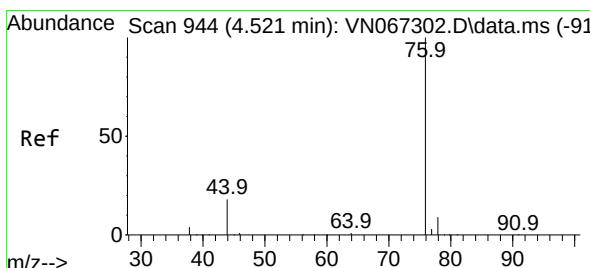
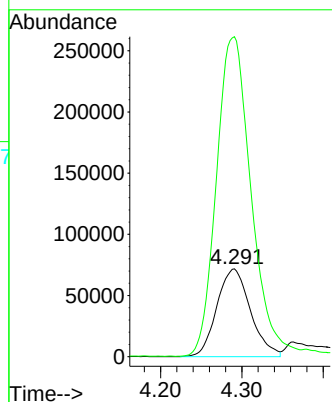
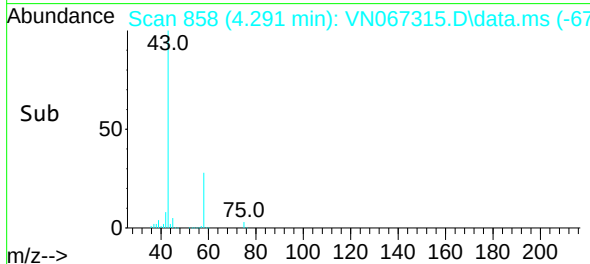
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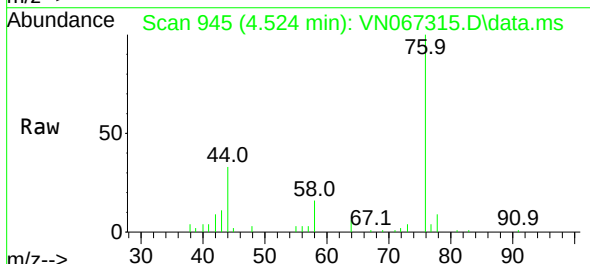
Tgt Ion: 58 Resp: 206374
Ion Ratio Lower Upper
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43 363.5 289.6 434.4

Manual Integrations
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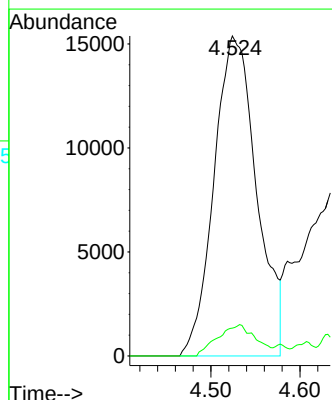
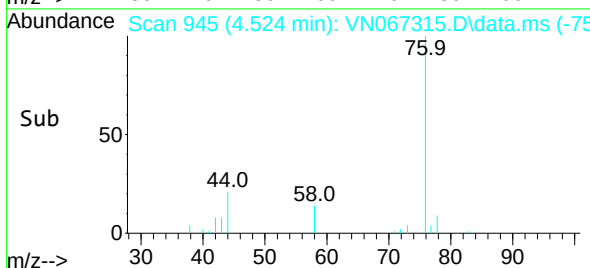
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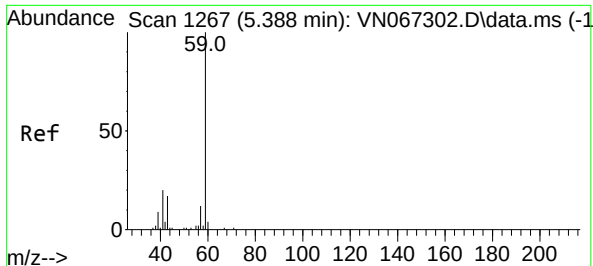


#16
Carbon Disulfide
Concen: 4.214 ug/l
RT: 4.524 min Scan# 945
Delta R.T. 0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

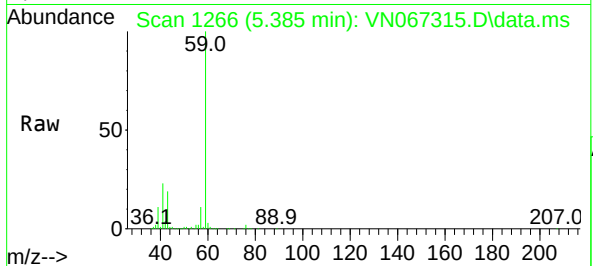


Tgt Ion: 76 Resp: 51229
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4

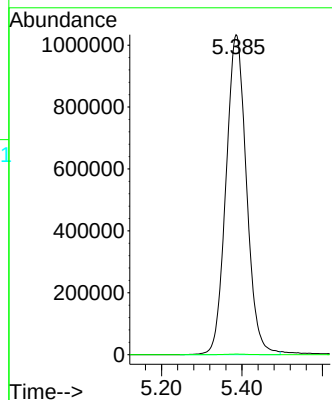




#23
tert-Butyl Alcohol
Concen: 3453.915 ug/l
RT: 5.385 min Scan# 1266
Delta R.T. -0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



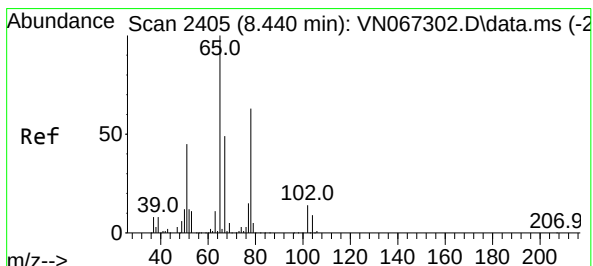
Tgt Ion: 59 Resp: 3656295
Ion Ratio Lower Upper
59 100
52 0.1 0.1 0.1#



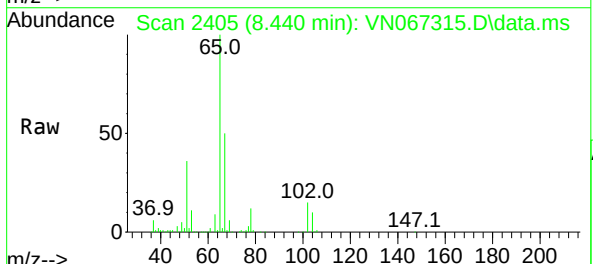
Instrument :
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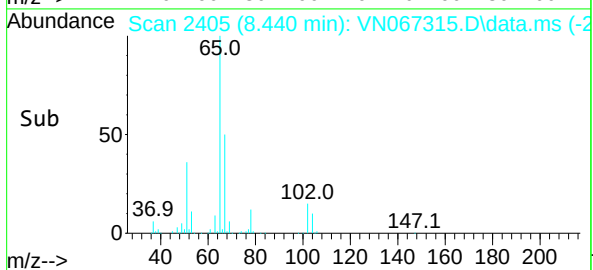
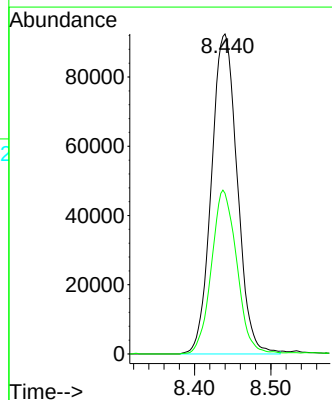
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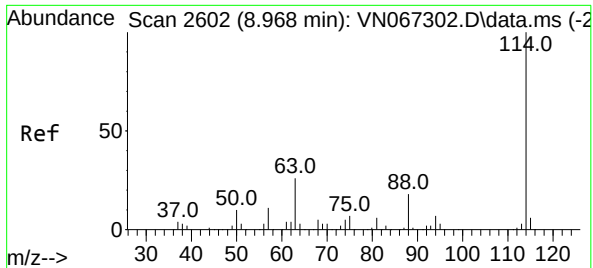


#27
1,2-Dichloroethane-d4
Concen: 32.700 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



Tgt Ion: 65 Resp: 217546
Ion Ratio Lower Upper
65 100
67 50.0 39.8 59.8





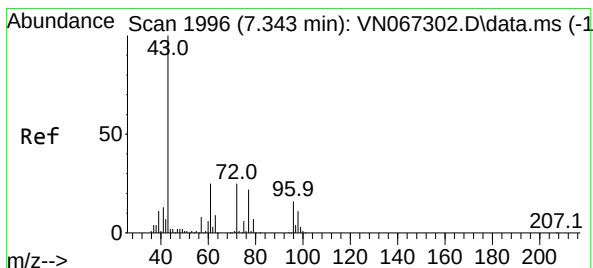
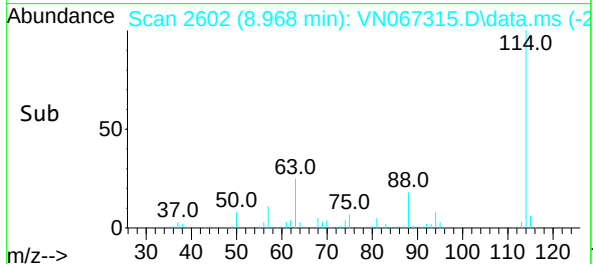
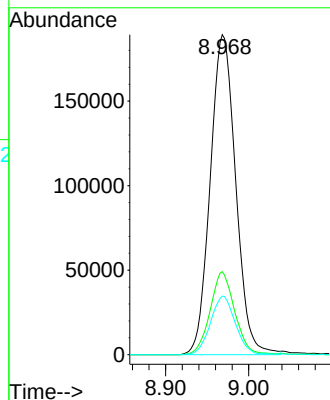
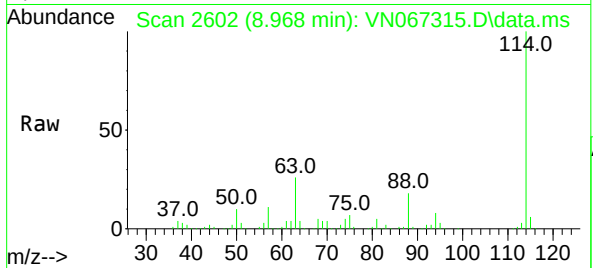
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 114 Resp: 403938
Ion Ratio Lower Upper
114 100
63 24.9 20.3 30.5
88 17.7 14.6 22.0

Instrument :
MSVOA_N
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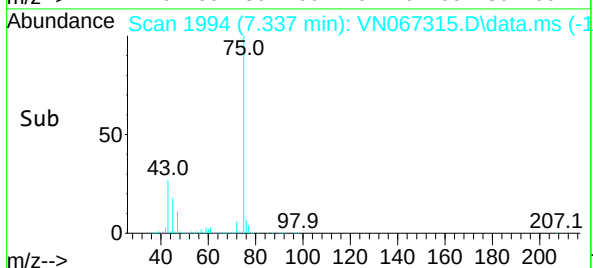
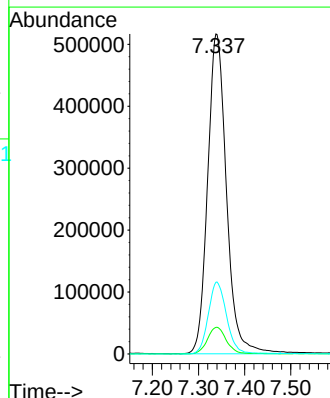
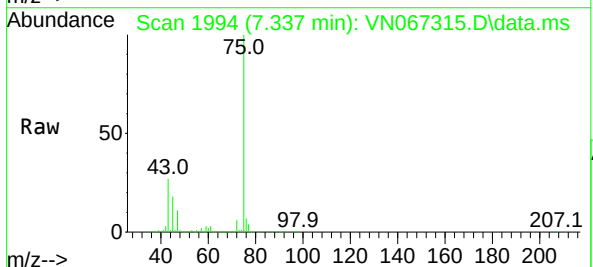
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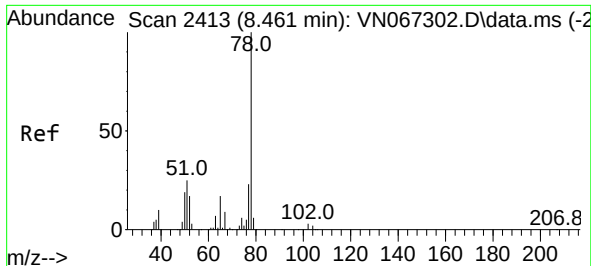
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#30
2-Butanone
Concen: 394.195 ug/l
RT: 7.337 min Scan# 1994
Delta R.T. -0.005 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

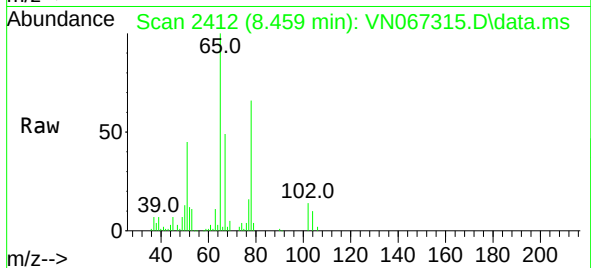
Tgt Ion: 43 Resp: 1463024
Ion Ratio Lower Upper
43 100
57 8.3 6.9 10.3
72 21.9 20.0 30.0





#34
Benzene
Concen: 3.213 ug/l
RT: 8.459 min Scan# 2412
Delta R.T. -0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

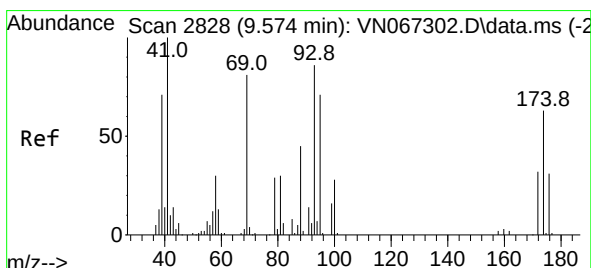
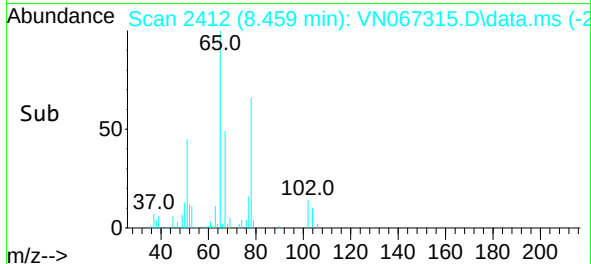
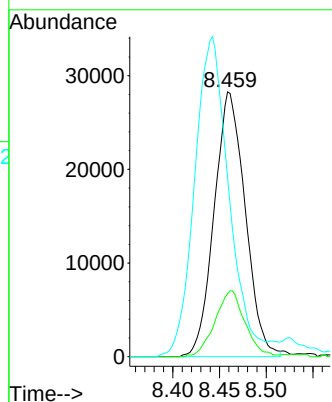
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Tgt Ion: 78 Resp: 65340
Ion Ratio Lower Upper
78 100
77 23.8 18.6 28.0
51 62.1 20.0 30.0#

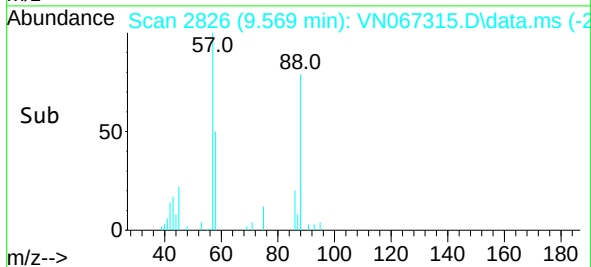
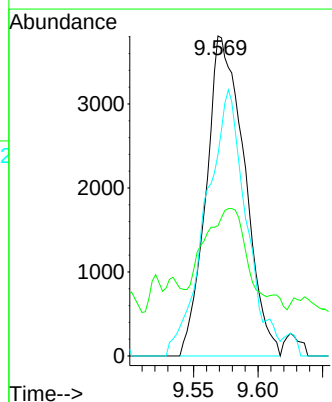
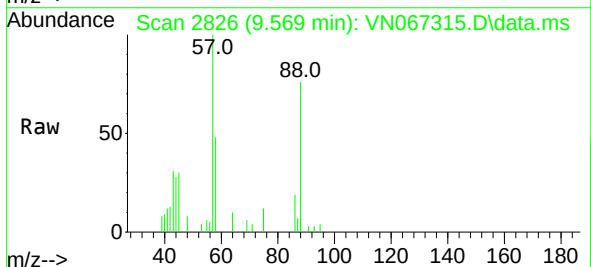
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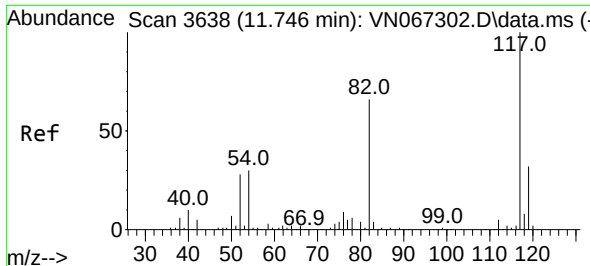
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#45
1,4-Dioxane
Concen: 86.386 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. -0.005 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 88 Resp: 7851
Ion Ratio Lower Upper
88 100
43 8.2 18.0 27.0#
58 84.8 57.7 86.5





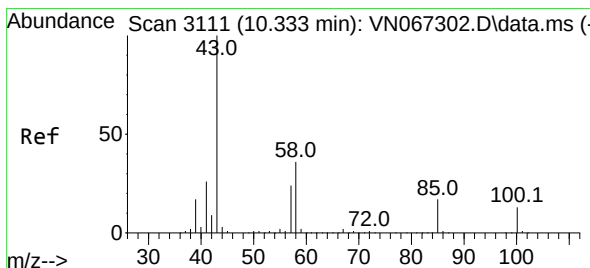
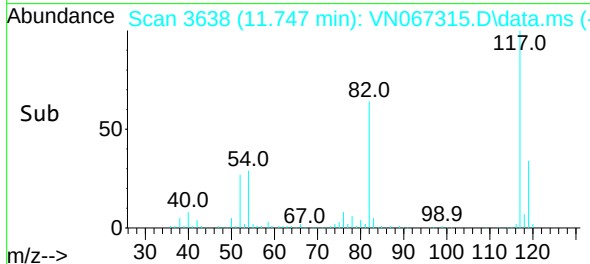
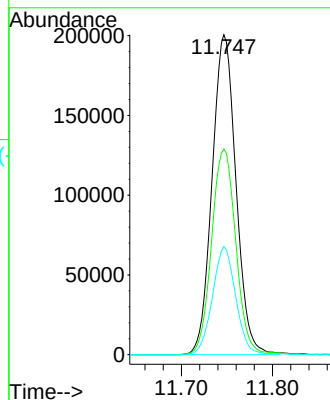
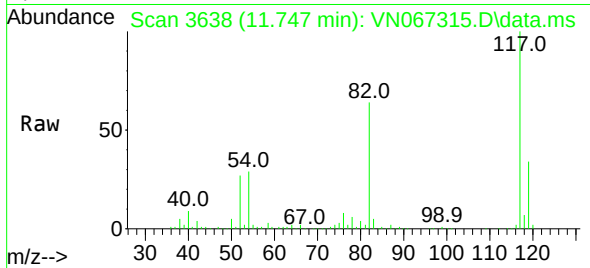
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 117 Resp: 365389
Ion Ratio Lower Upper
117 100
82 65.2 52.5 78.7
119 32.8 25.8 38.8

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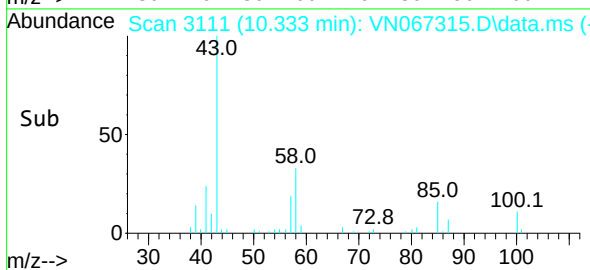
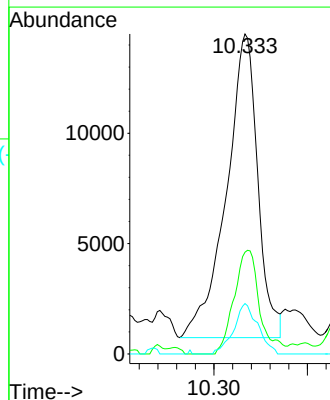
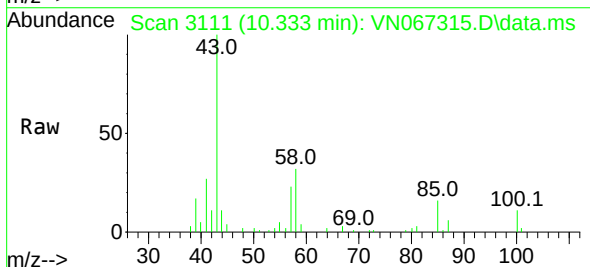
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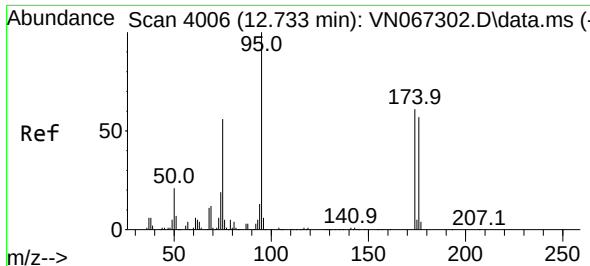
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#58
4-Methyl-2-Pentanone
Concen: 3.989 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 43 Resp: 32036
Ion Ratio Lower Upper
43 100
58 26.5 29.0 43.4#
85 12.8 13.2 19.8#





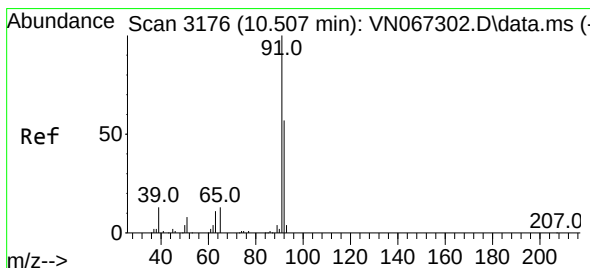
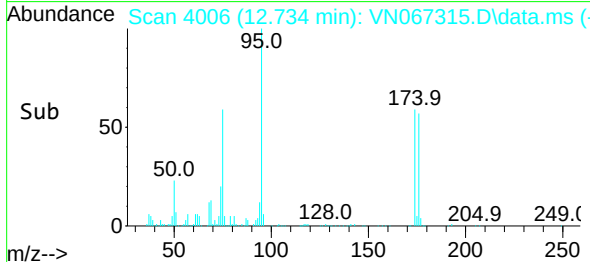
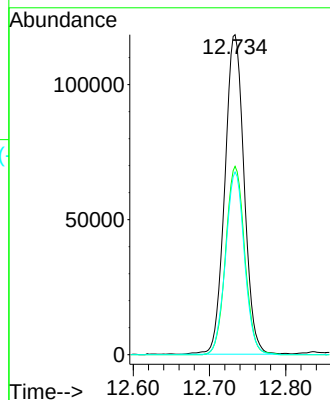
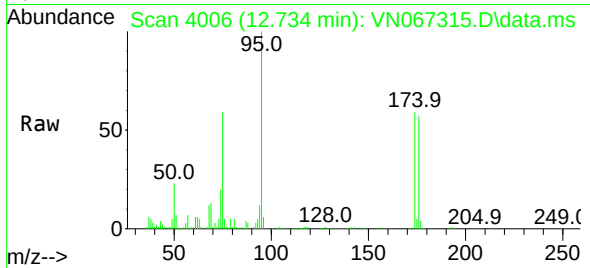
#60
4-Bromofluorobenzene
Concen: 29.506 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 95 Resp: 208140
Ion Ratio Lower Upper
95 100
174 58.1 47.7 71.5
176 55.9 45.7 68.5

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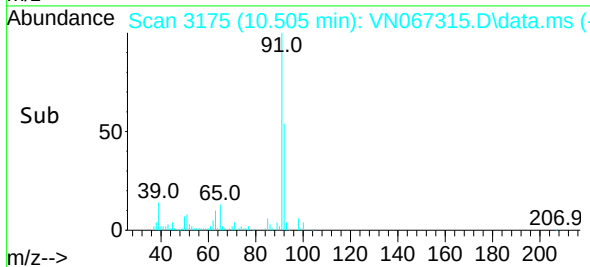
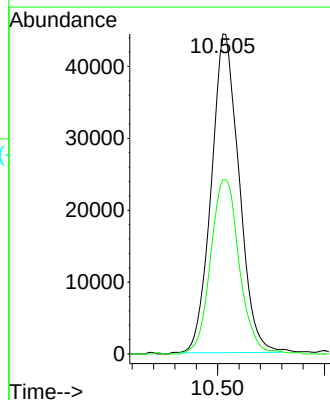
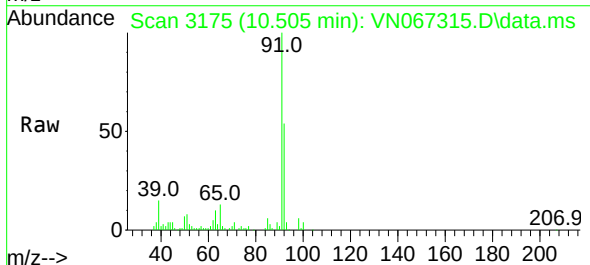
Manual Integrations
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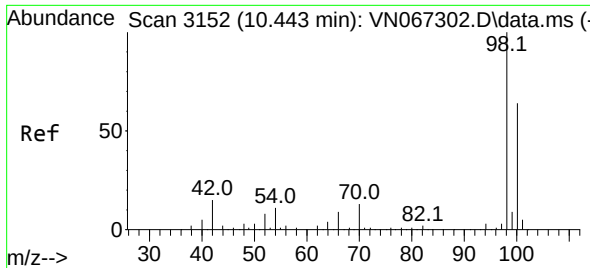
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#62
Toluene
Concen: 3.661 ug/l
RT: 10.505 min Scan# 3175
Delta R.T. -0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 91 Resp: 80062
Ion Ratio Lower Upper
91 100
92 56.6 46.1 69.1





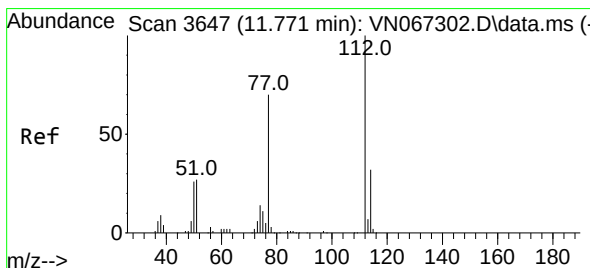
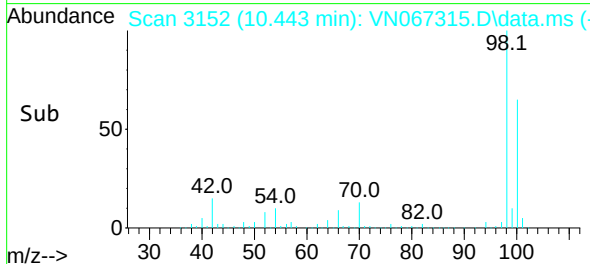
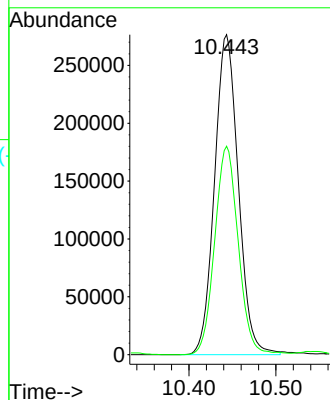
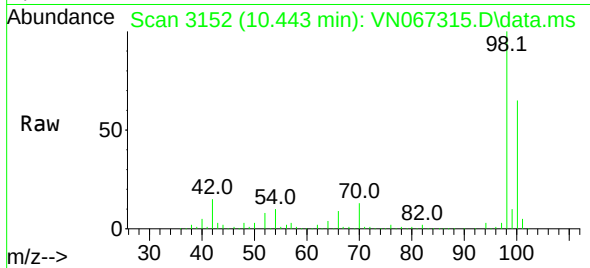
#63
Toluene-d8
Concen: 30.141 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 98 Resp: 525234
Ion Ratio Lower Upper
98 100
100 64.3 51.2 76.8

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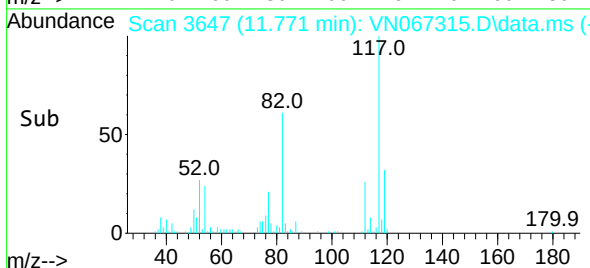
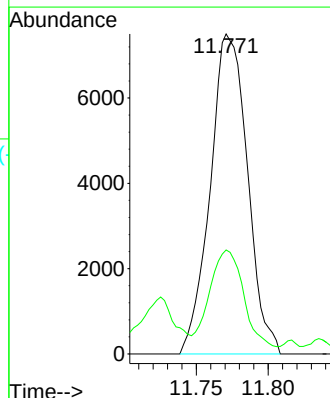
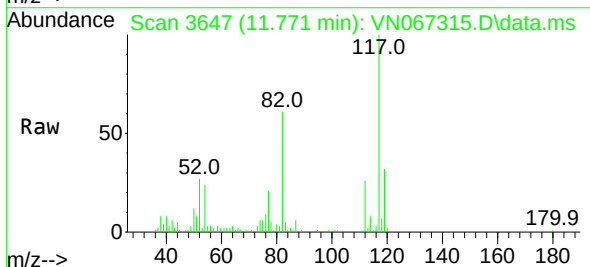
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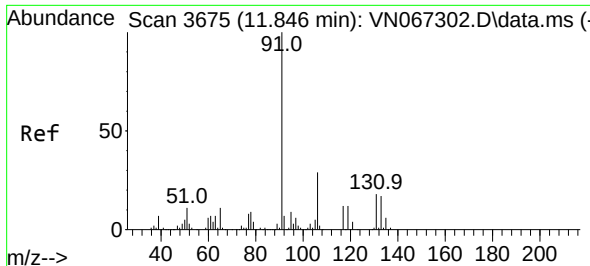
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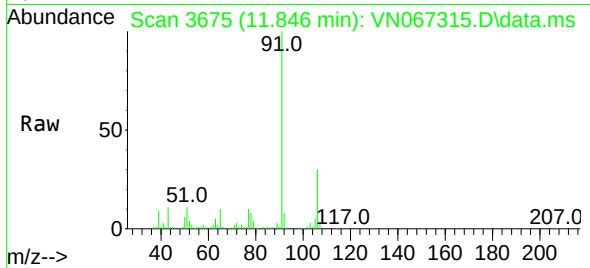
#64
Chlorobenzene
Concen: 1.052 ug/l
RT: 11.771 min Scan# 3647
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion: 112 Resp: 13508
Ion Ratio Lower Upper
112 100
114 30.2 25.4 38.0

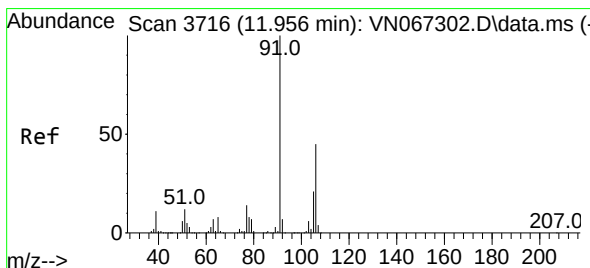
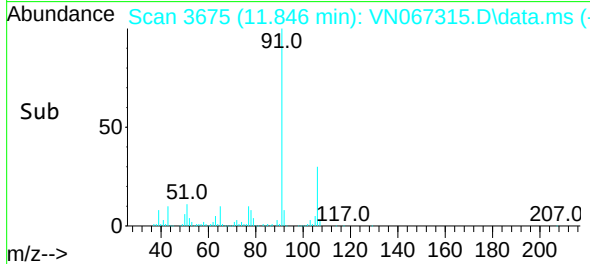
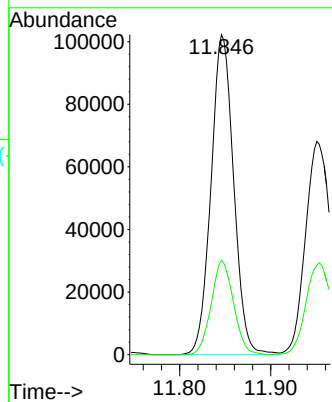




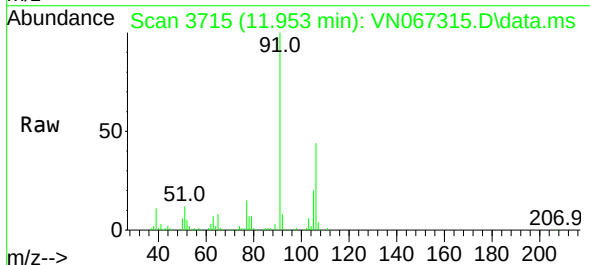
#66
Ethyl Benzene
Concen: 6.948 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



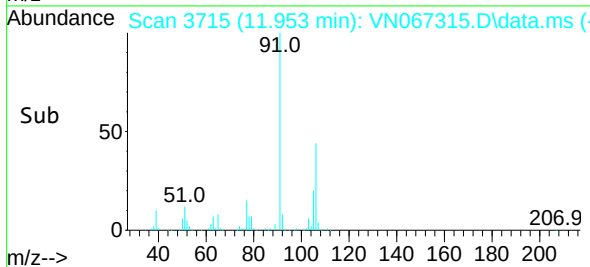
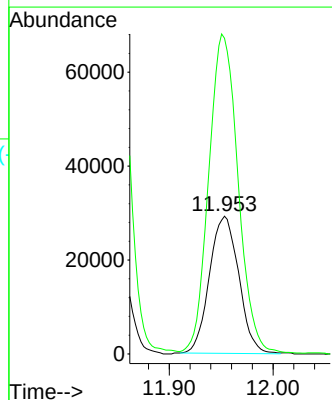
Tgt Ion: 91 Resp: 176430
Ion Ratio Lower Upper
91 100
106 29.5 23.4 35.0



#67
m/p-Xylenes
Concen: 6.399 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



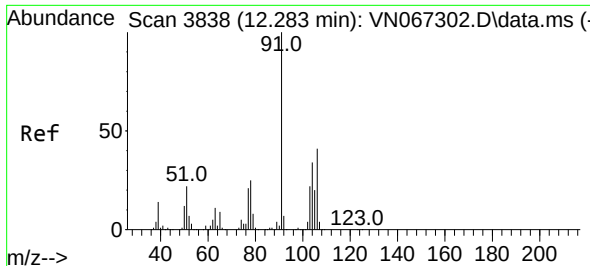
Tgt Ion: 106 Resp: 57320
Ion Ratio Lower Upper
106 100
91 232.7 181.3 271.9



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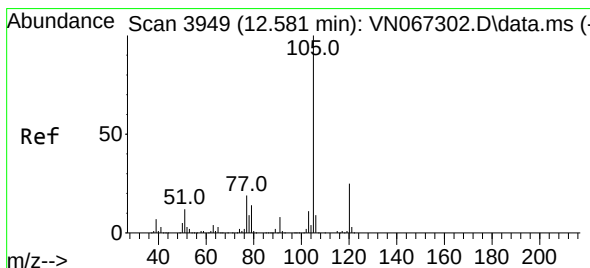
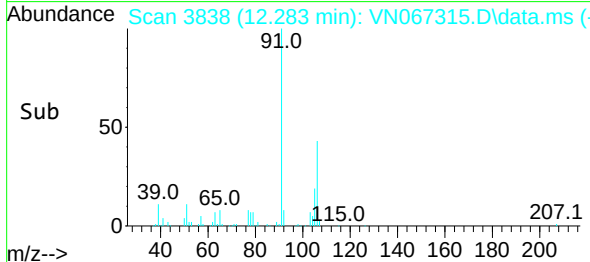
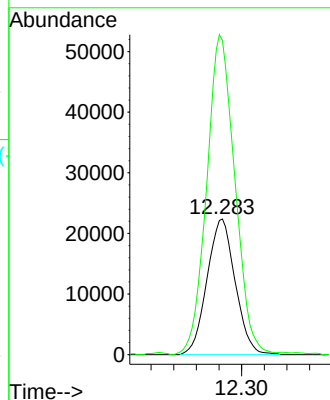
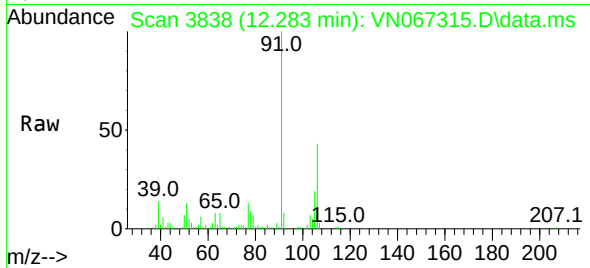
#68
o-Xylene
Concen: 4.319 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion:106 Resp: 38621
Ion Ratio Lower Upper
106 100
91 235.9 120.0 360.0

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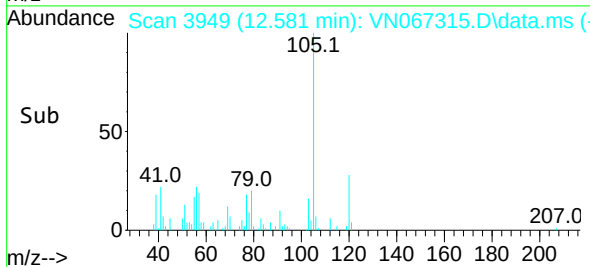
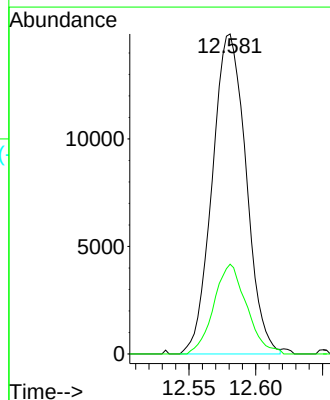
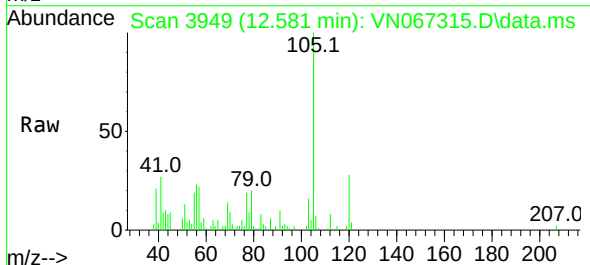
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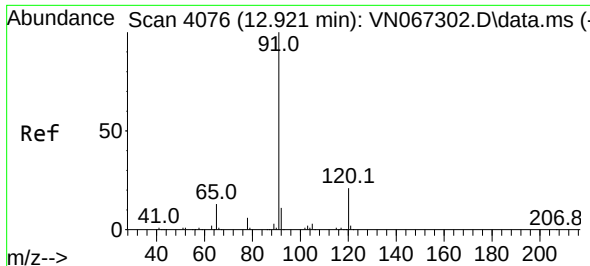
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#70
Isopropylbenzene
Concen: 1.136 ug/l
RT: 12.581 min Scan# 3949
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

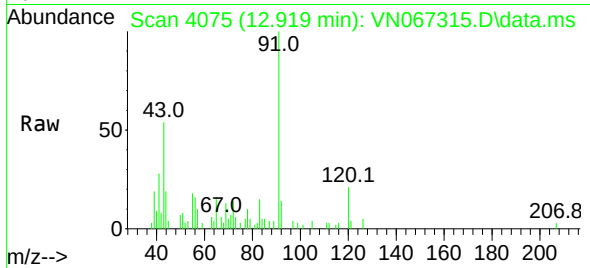
Tgt Ion:105 Resp: 26178
Ion Ratio Lower Upper
105 100
120 27.2 17.6 32.6





#74
n-propylbenzene
Concen: 0.382 ug/l
RT: 12.919 min Scan# 4075
Delta R.T. -0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

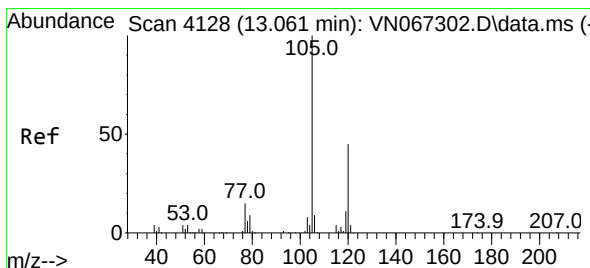
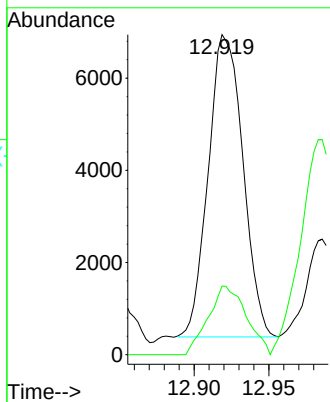
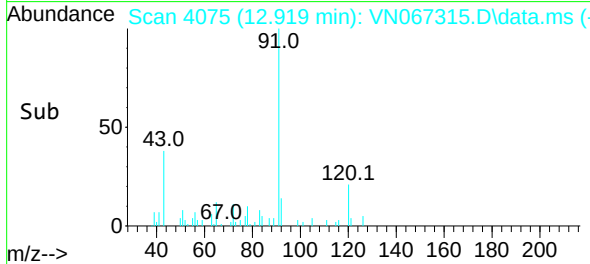
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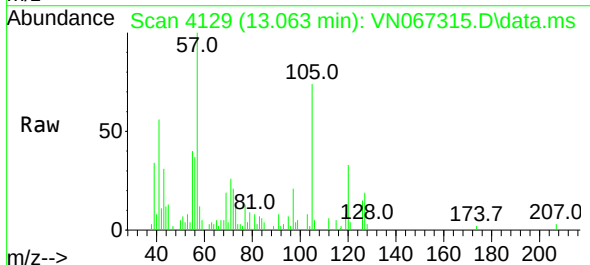
Tgt Ion: 91 Resp: 10572
Ion Ratio Lower Upper
91 100
120 24.9 0.0 41.0

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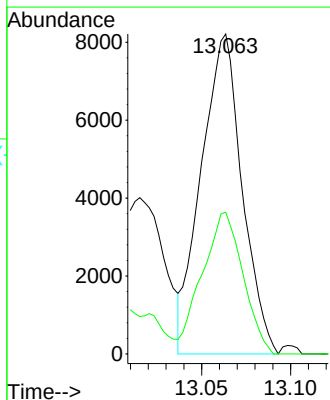
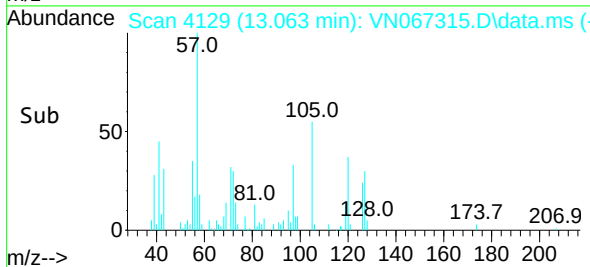
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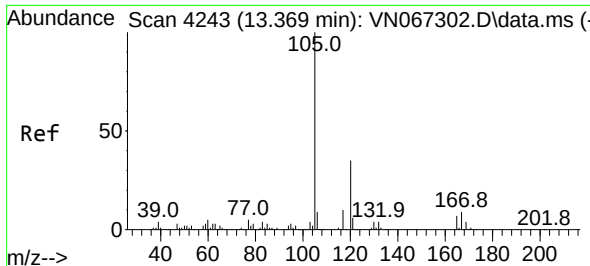


#76
1,3,5-Trimethylbenzene
Concen: 0.673 ug/l
RT: 13.063 min Scan# 4129
Delta R.T. 0.003 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



Tgt Ion: 105 Resp: 13145
Ion Ratio Lower Upper
105 100
120 44.0 0.0 90.2





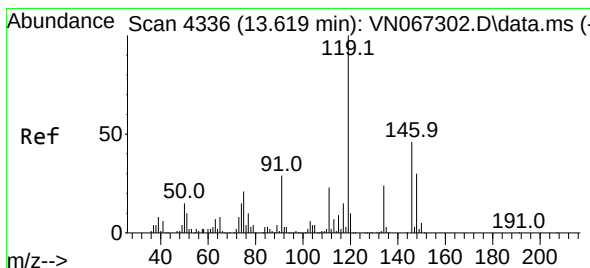
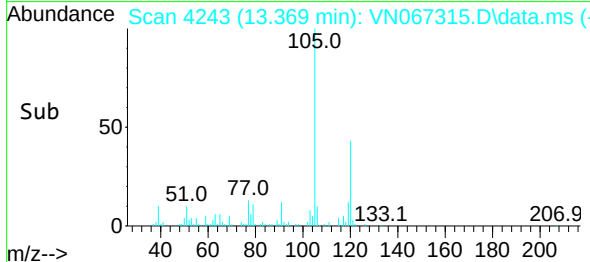
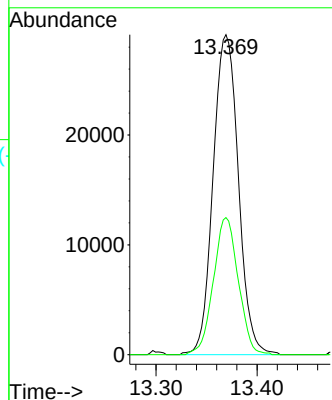
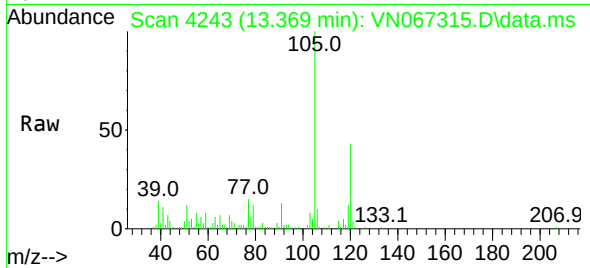
#80
1,2,4-Trimethylbenzene
Concen: 2.628 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion:105 Resp: 50654
Ion Ratio Lower Upper
105 100
120 42.2 0.0 0.4#

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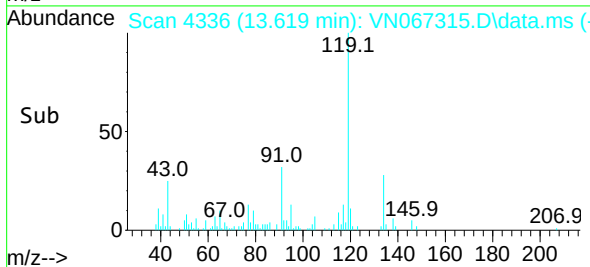
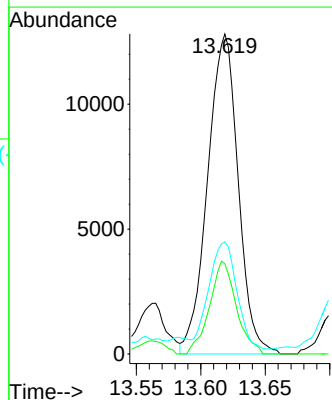
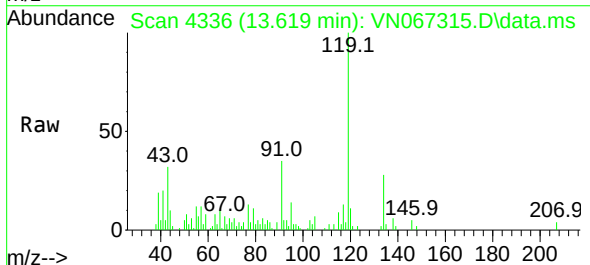
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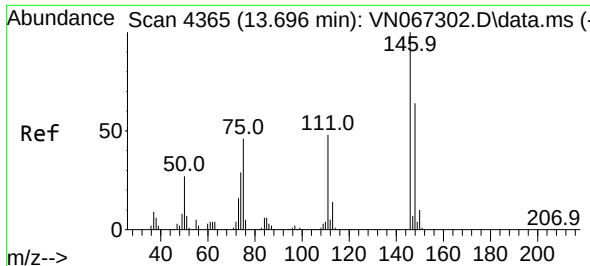
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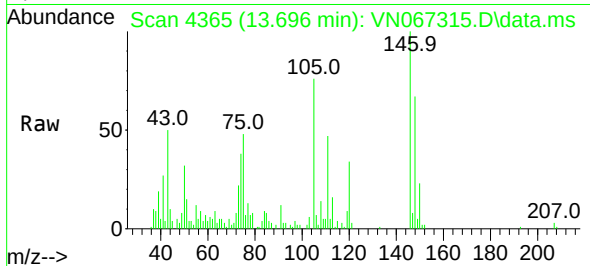
#82
p-Isopropyltoluene
Concen: 1.204 ug/l
RT: 13.619 min Scan# 4336
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25

Tgt Ion:119 Resp: 21126
Ion Ratio Lower Upper
119 100
134 25.3 0.0 49.0
91 31.2 0.0 59.6

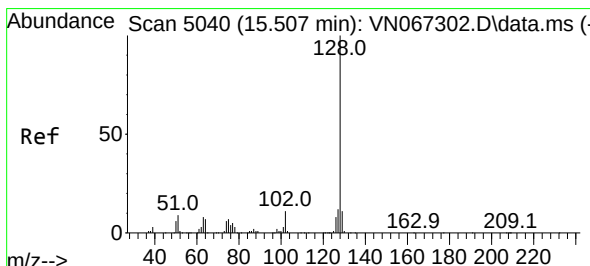
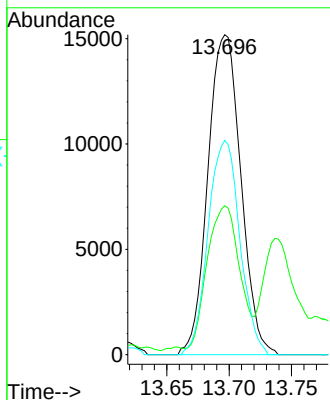
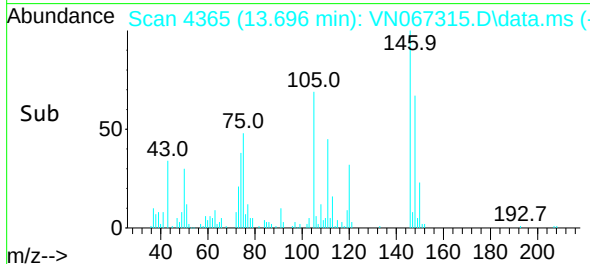




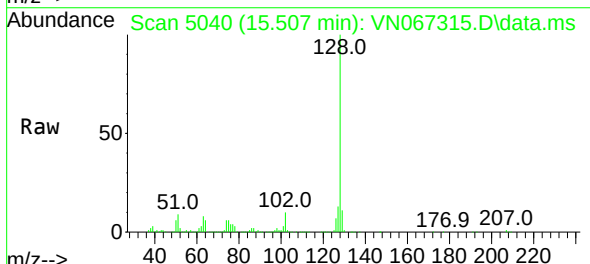
#84
1,4-Dichlorobenzene
Concen: 3.227 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



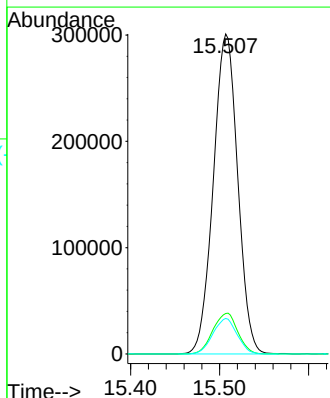
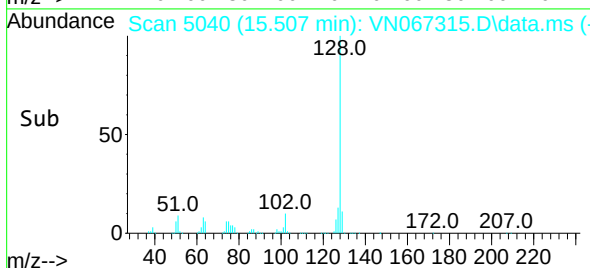
Tgt Ion:146 Resp: 27990
Ion Ratio Lower Upper
146 100
111 44.0 23.6 71.0
148 64.4 31.8 95.3



#91
Naphthalene
Concen: 39.777 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN067315.D
Acq: 12 Jun 2021 4:25



Tgt Ion:128 Resp: 572782
Ion Ratio Lower Upper
128 100
127 13.1 10.1 15.1
129 11.0 8.9 13.3



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