

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069143.D
 Acq On : 22 Oct 2021 18:58
 Operator : JC/MD
 Sample : M4301-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 211020075-02-VOA

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

Quant Time: Oct 23 07:56:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	51391	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	300037	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	267542	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	125465	31.344	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.467%			
60) 4-Bromofluorobenzene	12.734	95	126051	27.477	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.600%			
63) Toluene-d8	10.443	98	363481	30.070	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.233%			
Target Compounds						
					Qvalue	
15) Acetone	4.285	58	82109	168.167	ug/l	98
24) Methyl tert-Butyl Ether	5.621	73	9712m	0.886	ug/l	
30) 2-Butanone	7.332	43	551455	243.227	ug/l	94
34) Benzene	8.461	78	16654	1.181	ug/l #	16
45) 1,4-Dioxane	9.574	88	5701	86.984	ug/l #	81
58) 4-Methyl-2-Pentanone	10.331	43	15674	3.473	ug/l #	84
62) Toluene	10.508	91	8921	0.572	ug/l #	68
64) Chlorobenzene	11.773	112	3619	0.383	ug/l	95
66) Ethyl Benzene	11.846	91	25899	1.478	ug/l	95
67) m/p-Xylenes	11.953	106	10426	1.582	ug/l	93
68) o-Xylene	12.280	106	7405	1.122	ug/l	95
70) Isopropylbenzene	12.581	105	4733	0.274	ug/l	89
80) 1,2,4-Trimethylbenzene	13.369	105	8109	0.573	ug/l #	80
84) 1,4-Dichlorobenzene	13.699	146	6471	0.963	ug/l	97
91) Naphthalene	15.507	128	105307	10.949	ug/l	99

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

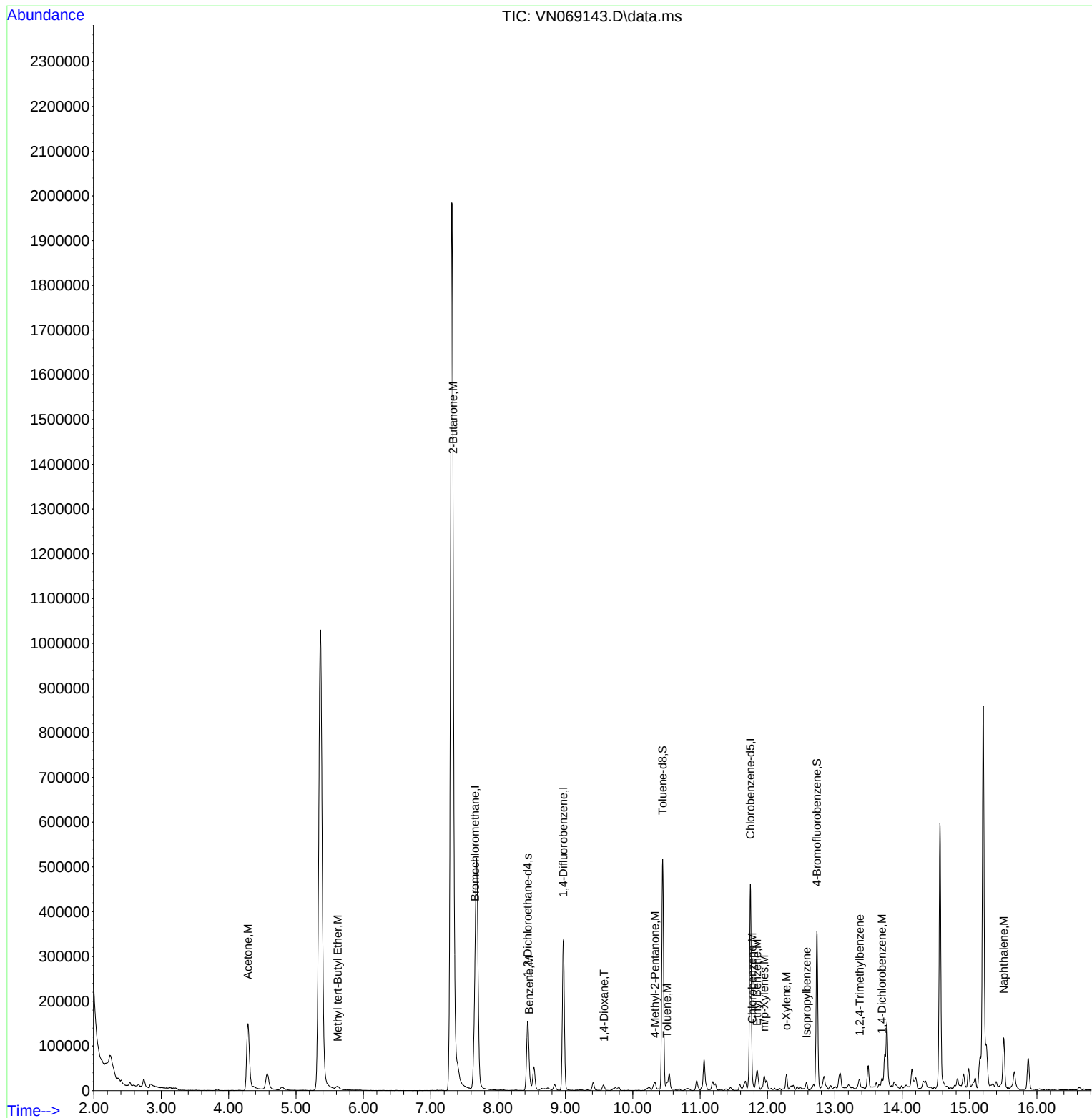
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
Data File : VN069143.D
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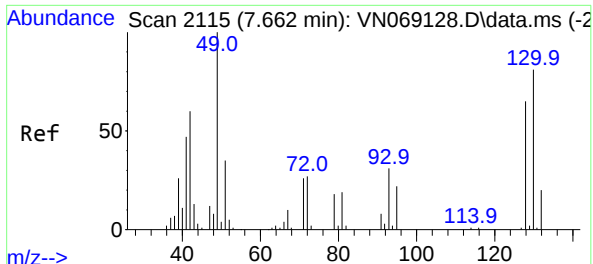
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration





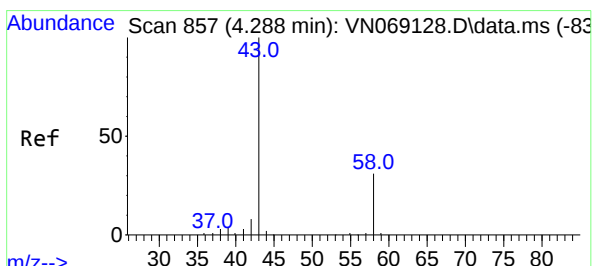
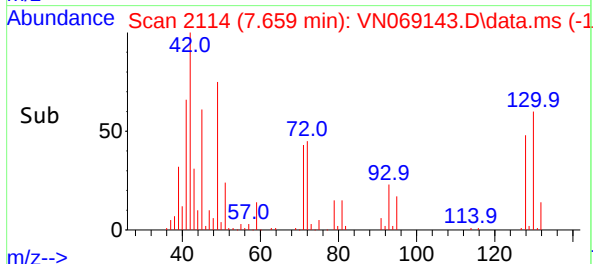
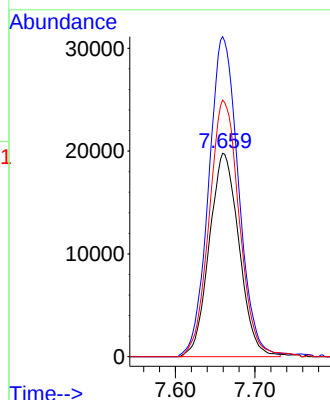
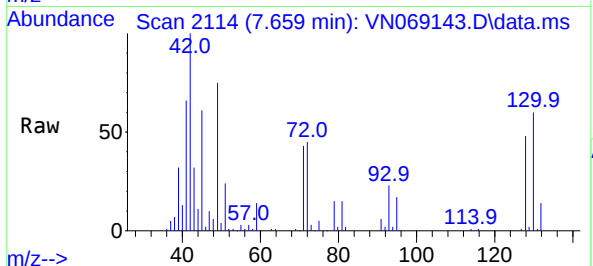
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

Instrument :
MSVOA_N
ClientSampleId :
211020075-02-VOA

Tgt Ion:128 Resp: 5139
Ion Ratio Lower Upper
128 100
49 157.6 0.0 392.3
130 127.1 0.0 320.2

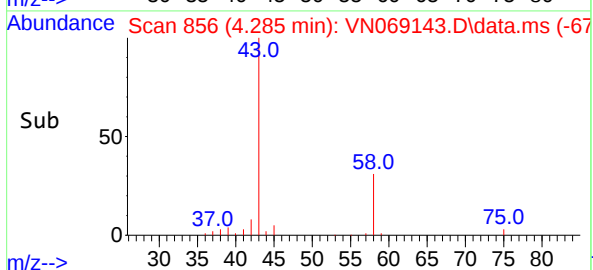
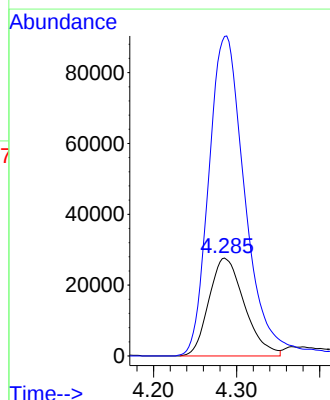
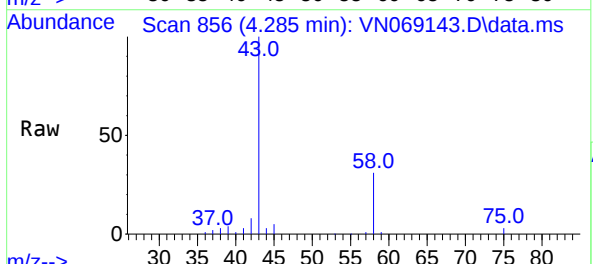
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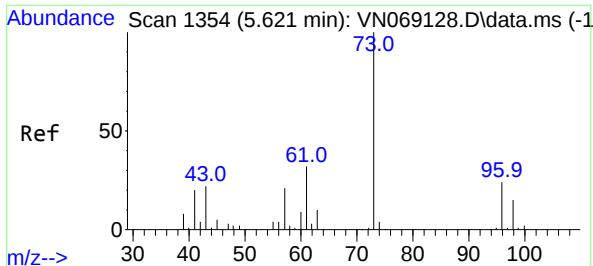
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#15
Acetone
Concen: 168.167 ug/l
RT: 4.285 min Scan# 856
Delta R.T. -0.002 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

Tgt Ion: 58 Resp: 82109
Ion Ratio Lower Upper
58 100
43 325.4 256.6 384.8





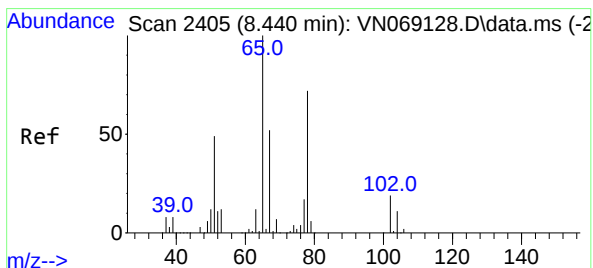
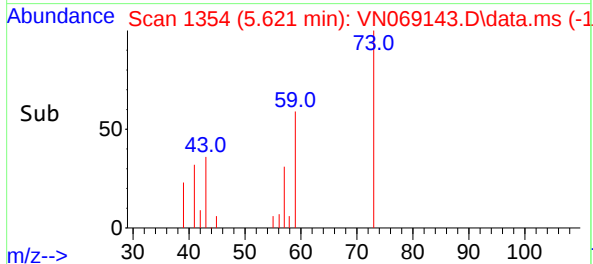
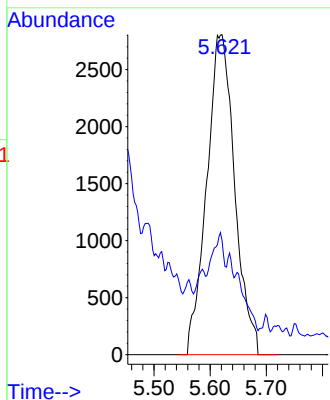
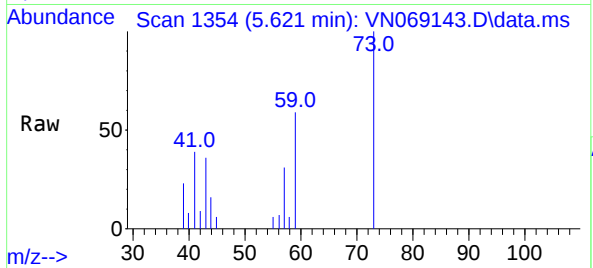
#24
Methyl tert-Butyl Ether
Concen: 0.886 ug/l m
RT: 5.621 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN069143.D
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Instrument :
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Tgt Ion: 73 Resp: 971
Ion Ratio Lower Upper
73 100
43 0.7 18.1 27.1

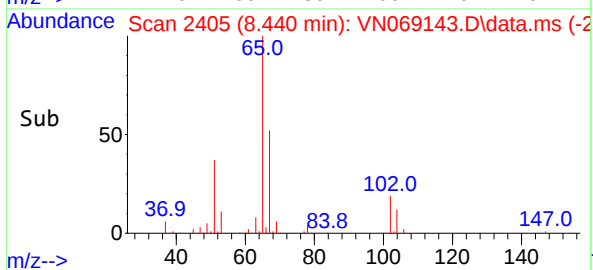
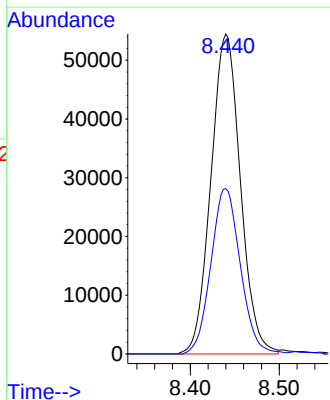
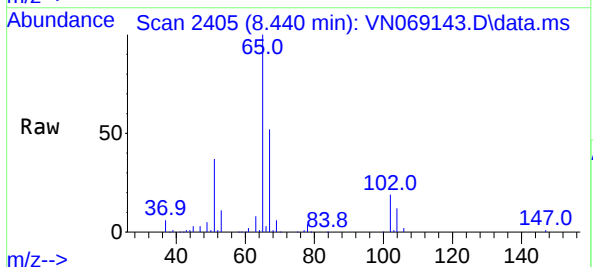
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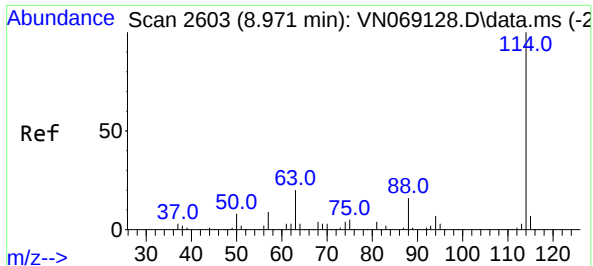
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#27
1,2-Dichloroethane-d4
Concen: 31.344 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

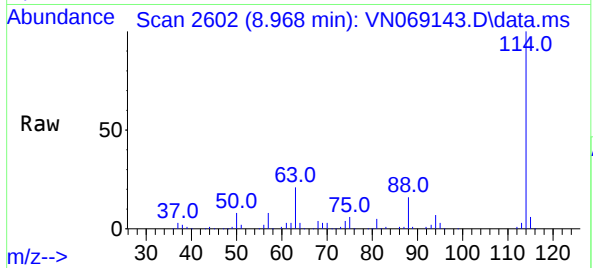
Tgt Ion: 65 Resp: 125465
Ion Ratio Lower Upper
65 100
67 51.6 40.2 60.2





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.968 min Scan# 2110
Delta R.T. -0.002 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

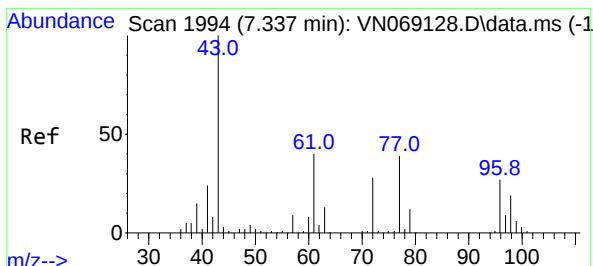
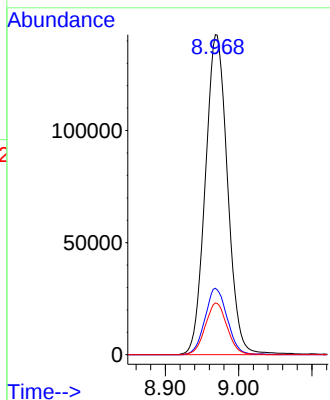
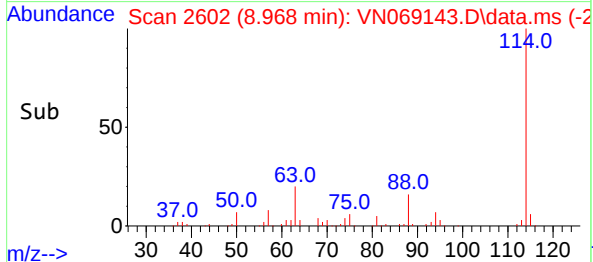
Instrument :
MSVOA_N
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211020075-02-VOA



Tgt Ion:114 Resp: 30003
Ion Ratio Lower Upper
114 100
63 20.7 15.8 23.6
88 15.9 11.6 17.4

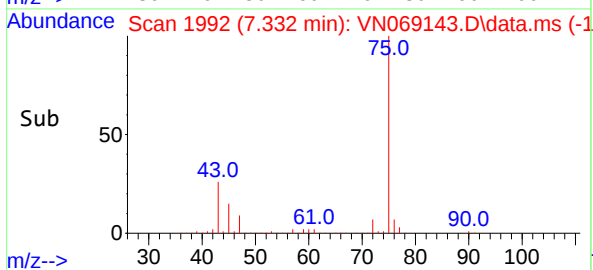
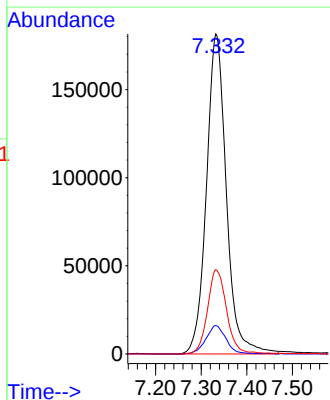
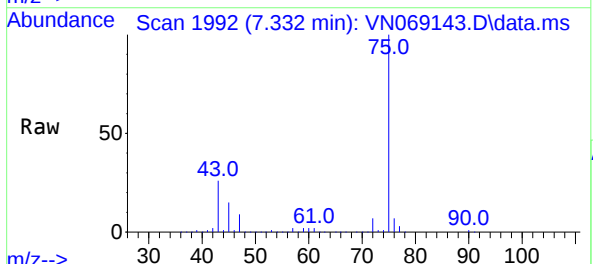
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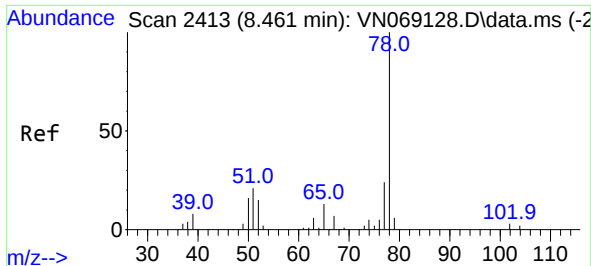
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#30
2-Butanone
Concen: 243.227 ug/l
RT: 7.332 min Scan# 1992
Delta R.T. -0.005 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

Tgt Ion: 43 Resp: 551455
Ion Ratio Lower Upper
43 100
57 8.9 6.7 10.1
72 24.9 23.2 34.8





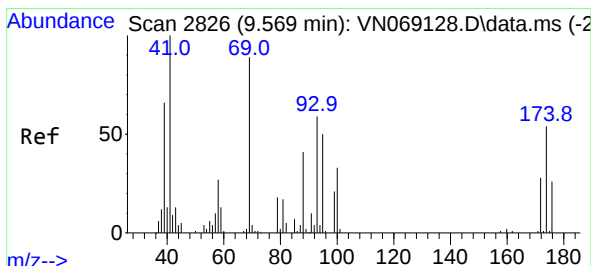
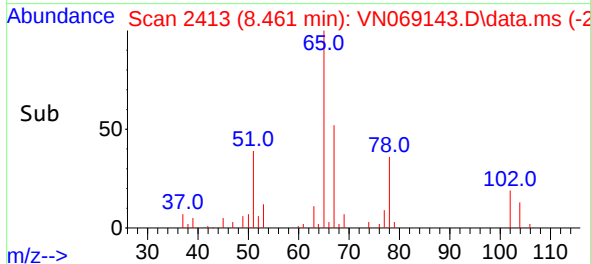
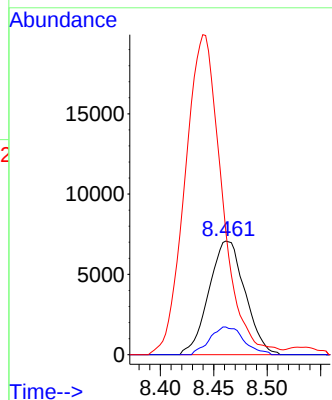
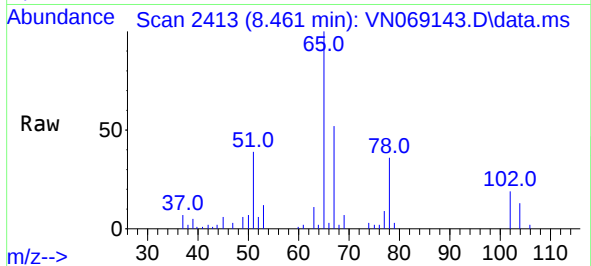
#34
Benzene
Concen: 1.181 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

Instrument :
MSVOA_N
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211020075-02-VOA

Tgt Ion: 78 Resp: 16654
Ion Ratio Lower Upper
78 100
77 24.3 19.1 28.7
51 104.2 16.0 24.0

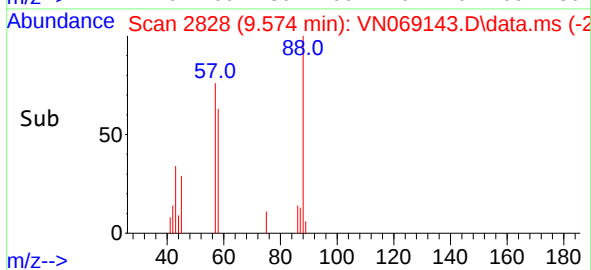
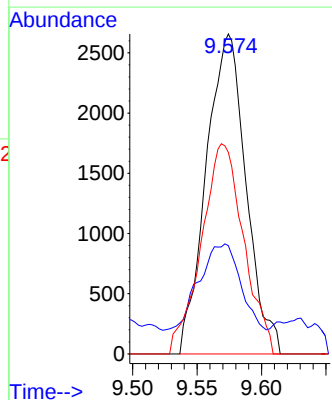
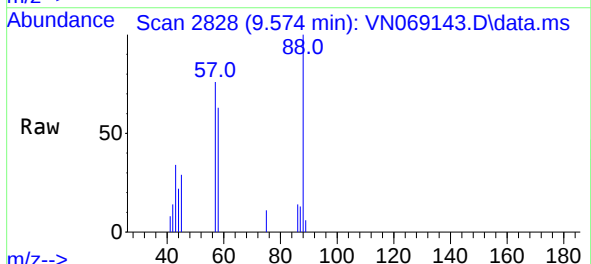
Manual Integrations
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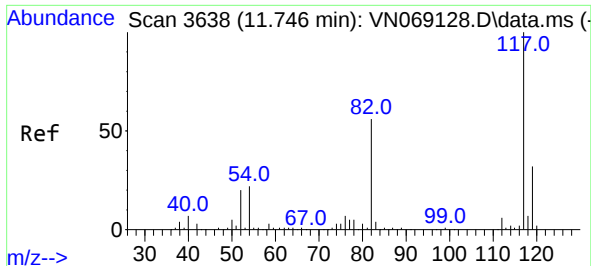
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#45
1,4-Dioxane
Concen: 86.984 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.006 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

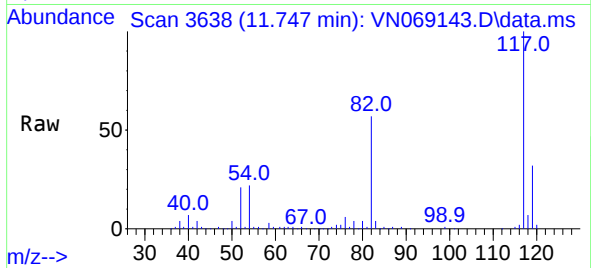
Tgt Ion: 88 Resp: 5701
Ion Ratio Lower Upper
88 100
43 11.7 25.0 37.6#
58 69.7 49.4 74.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

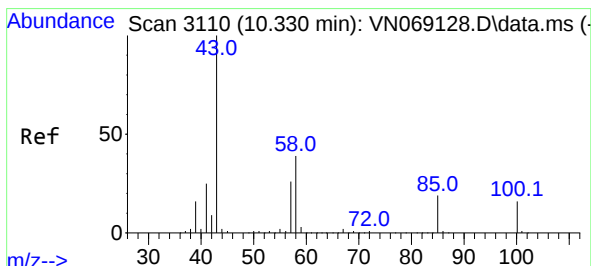
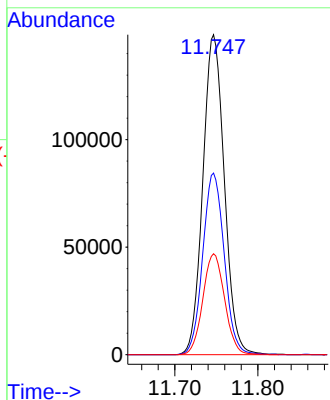
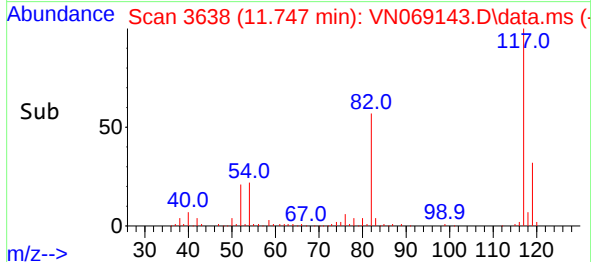
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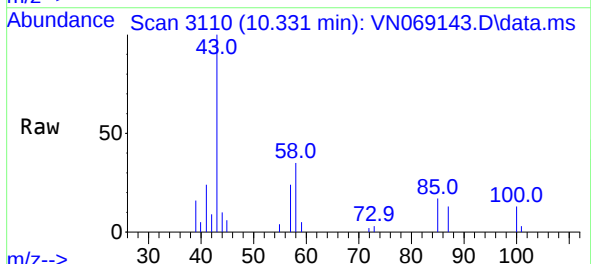
Tgt Ion:117 Resp: 26754
Ion Ratio Lower Upper
117 100
82 56.8 43.6 65.4
119 32.0 25.8 38.6

Manual Integrations
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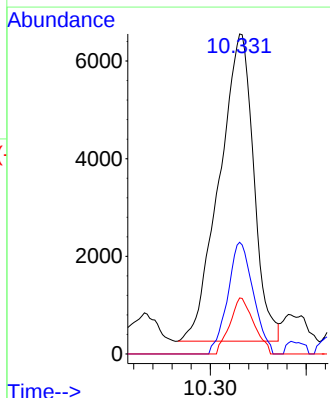
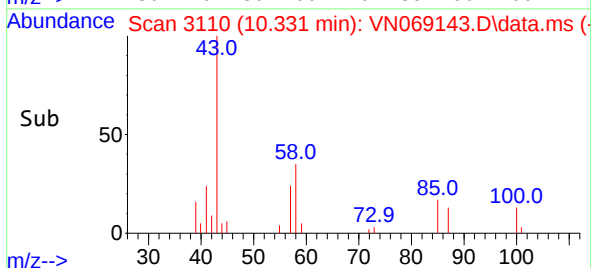
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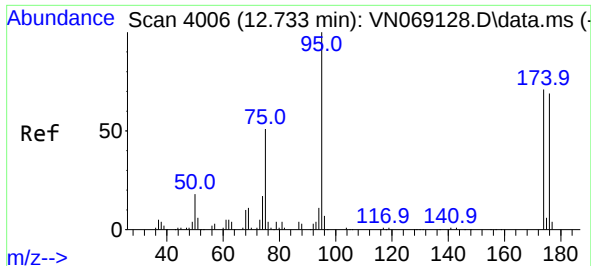


#58
4-Methyl-2-Pentanone
Concen: 3.473 ug/l
RT: 10.331 min Scan# 3110
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58



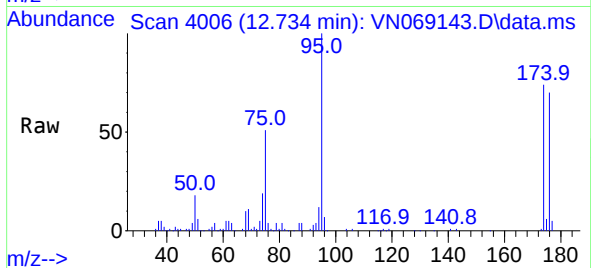
Tgt Ion: 43 Resp: 15674
Ion Ratio Lower Upper
43 100
58 27.0 30.0 45.0#
85 12.7 15.0 22.6#





#60
4-Bromofluorobenzene
Concen: 27.477 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

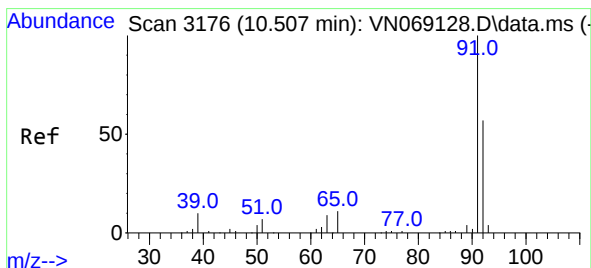
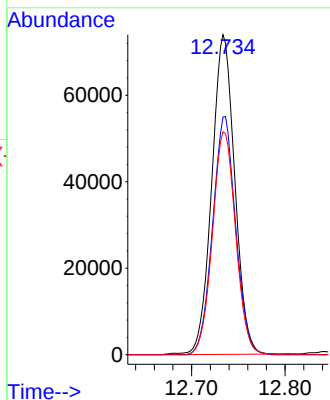
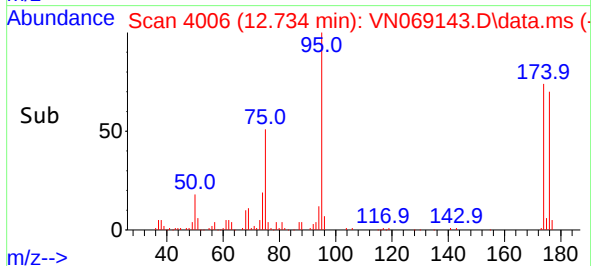
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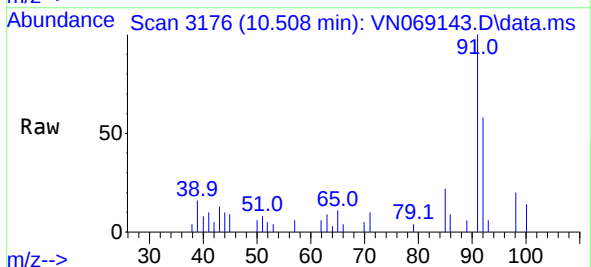
Tgt Ion: 95 Resp: 12605
Ion Ratio Lower Upper
95 100
174 74.8 62.9 94.3
176 70.6 61.0 91.4

Manual Integrations
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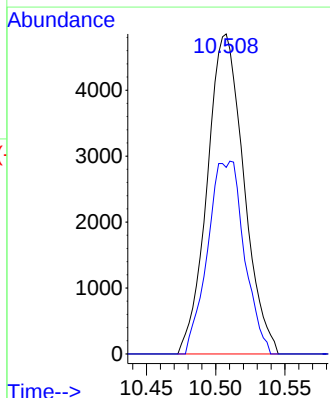
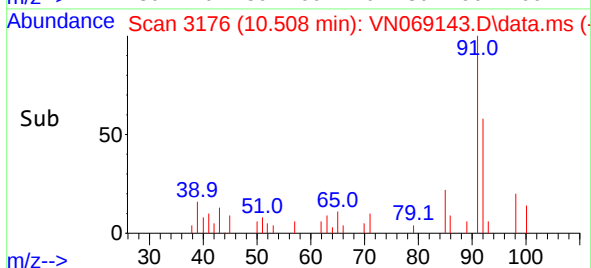
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

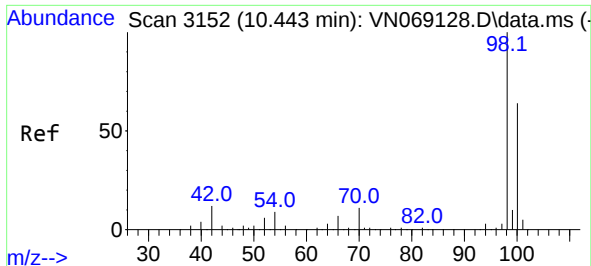


#62
Toluene
Concen: 0.572 ug/l
RT: 10.508 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58



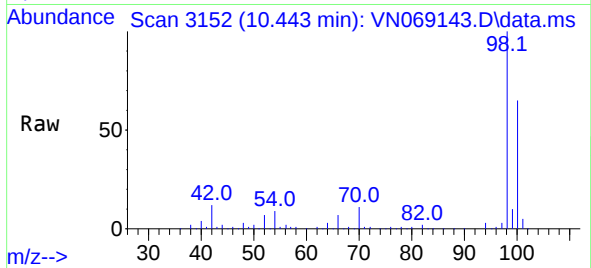
Tgt Ion: 91 Resp: 8921
Ion Ratio Lower Upper
91 100
92 32.7 44.6 67.0#





#63
Toluene-d8
Concen: 30.070 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

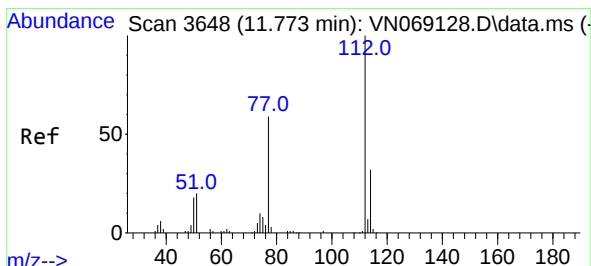
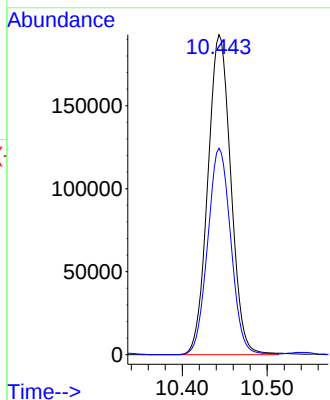
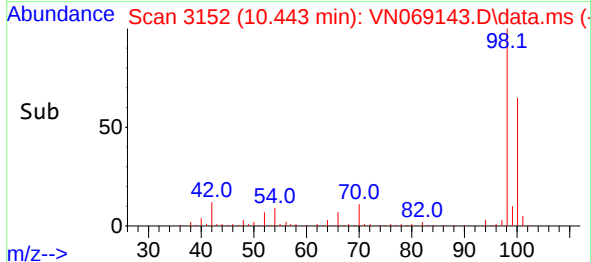
Instrument :
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Tgt Ion: 98 Resp: 36348
Ion Ratio Lower Upper
98 100
100 64.7 50.6 76.0

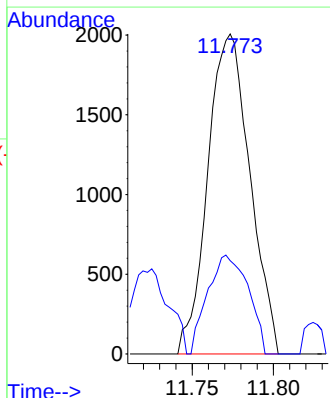
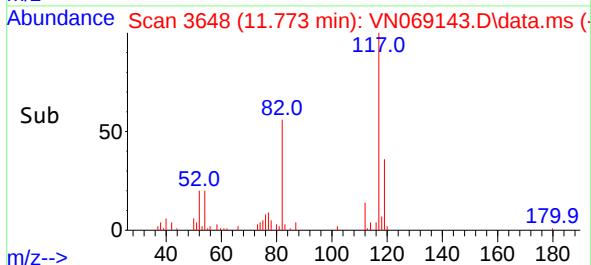
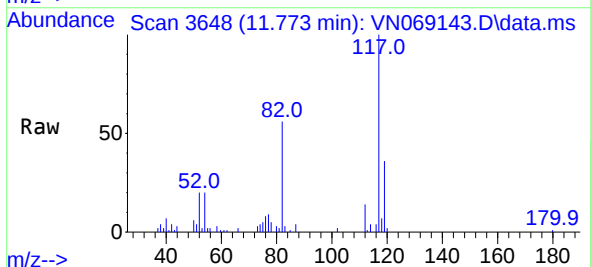
Manual Integrations
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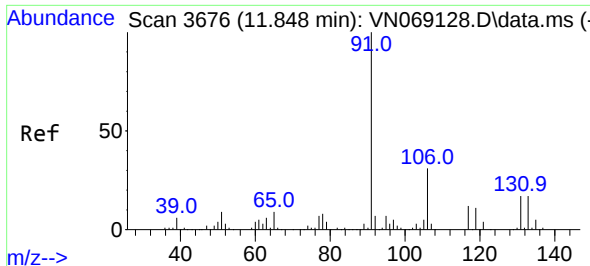
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#64
Chlorobenzene
Concen: 0.383 ug/l
RT: 11.773 min Scan# 3648
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

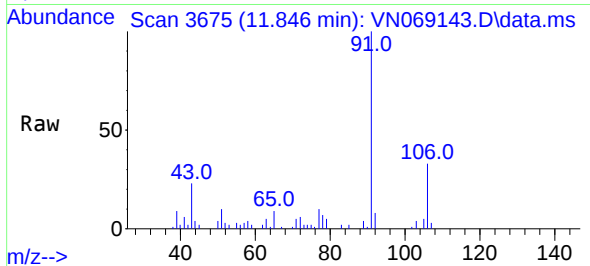
Tgt Ion:112 Resp: 3619
Ion Ratio Lower Upper
112 100
114 29.1 25.8 38.6





#66
Ethyl Benzene
Concen: 1.478 ug/l
RT: 11.846 min Scan# 30
Delta R.T. -0.003 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

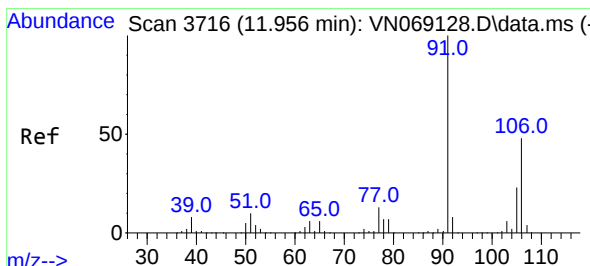
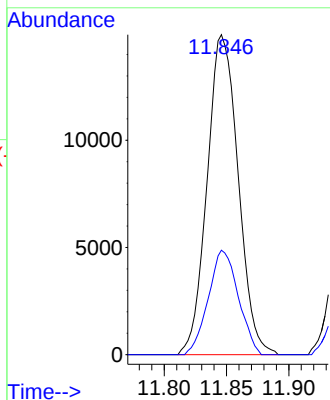
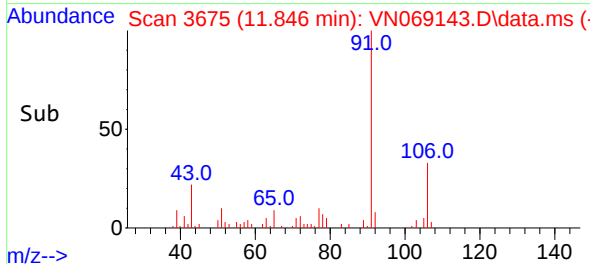
Instrument :
MSVOA_N
ClientSampleId :
211020075-02-VOA



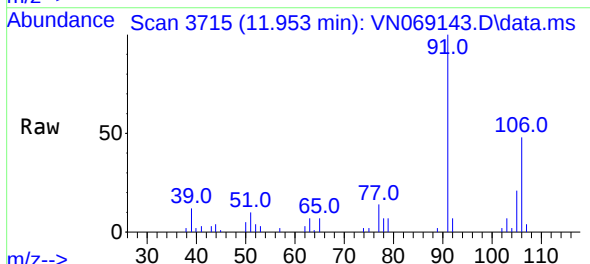
Tgt Ion: 91 Resp: 2589
Ion Ratio Lower Upper
91 100
106 32.6 24.0 36.0

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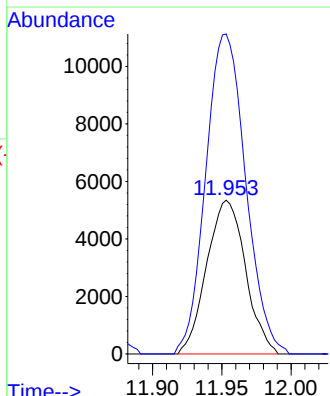
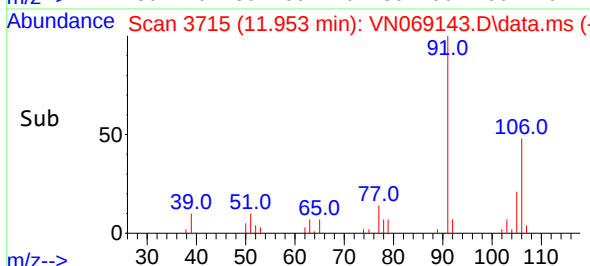
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

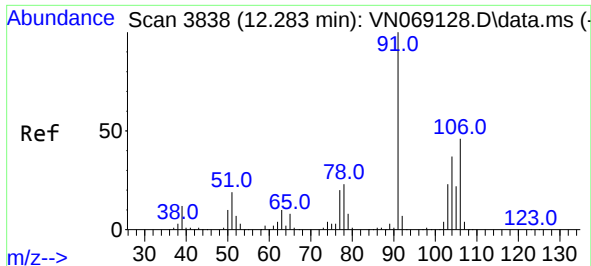


#67
m/p-Xylenes
Concen: 1.582 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.002 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58



Tgt Ion:106 Resp: 10426
Ion Ratio Lower Upper
106 100
91 214.1 162.9 244.3





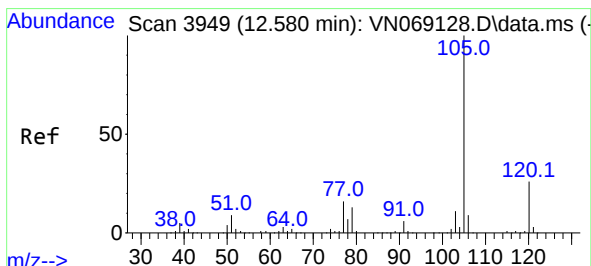
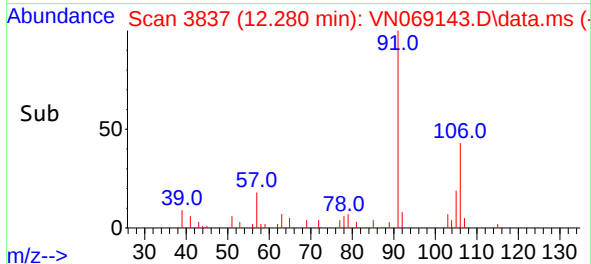
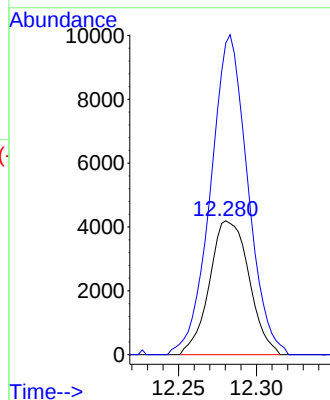
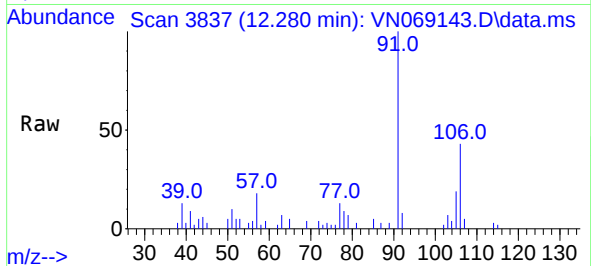
#68
o-Xylene
Concen: 1.122 ug/l
RT: 12.280 min Scan# 3838
Delta R.T. -0.002 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

Instrument :
MSVOA_N
ClientSampleId :
211020075-02-VOA

Tgt Ion:106 Resp: 7409
Ion Ratio Lower Upper
106 100
91 224.1 107.7 323.1

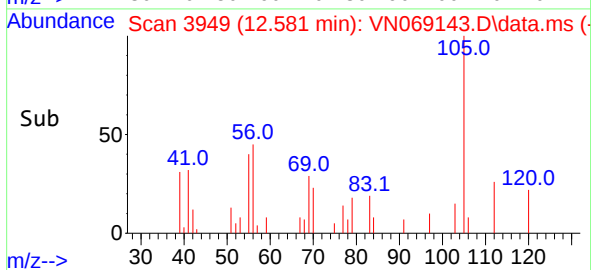
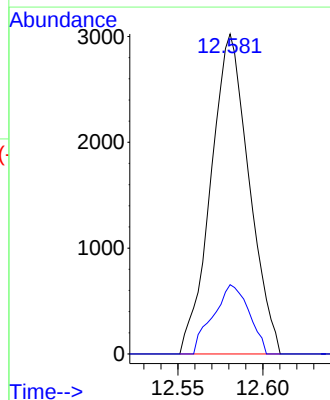
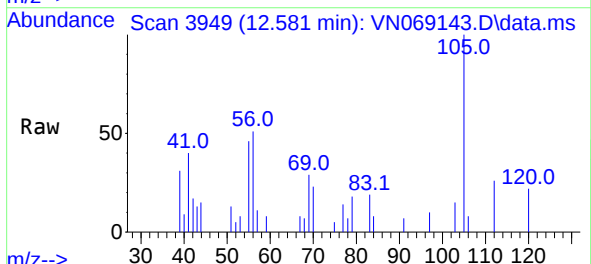
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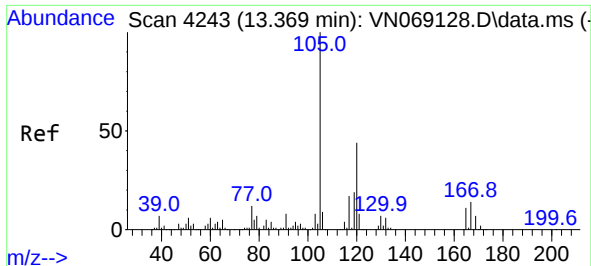
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021



#70
Isopropylbenzene
Concen: 0.274 ug/l
RT: 12.581 min Scan# 3949
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

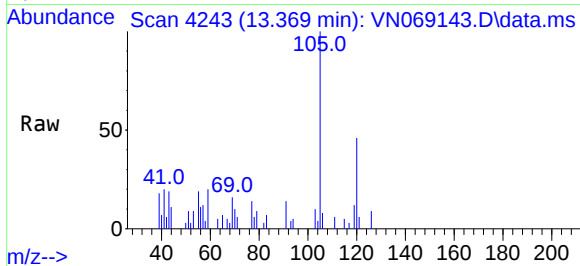
Tgt Ion:105 Resp: 4733
Ion Ratio Lower Upper
105 100
120 20.3 18.3 34.1





#80
1,2,4-Trimethylbenzene
Concen: 0.573 ug/l
RT: 13.369 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

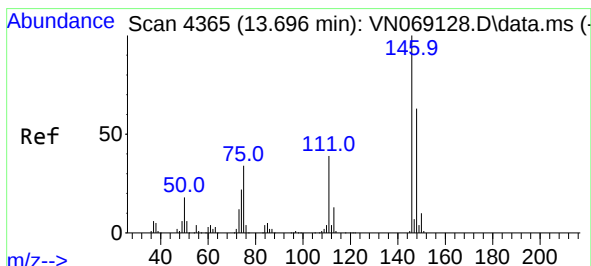
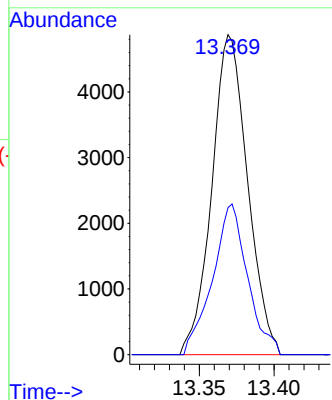
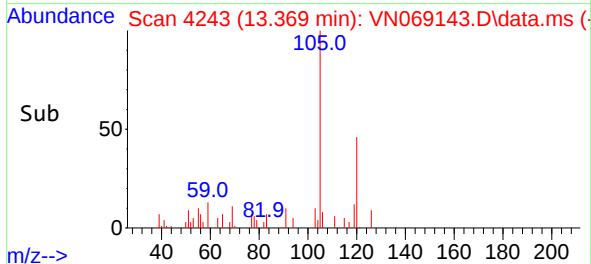
Instrument :
MSVOA_N
ClientSampleId :
211020075-02-VOA



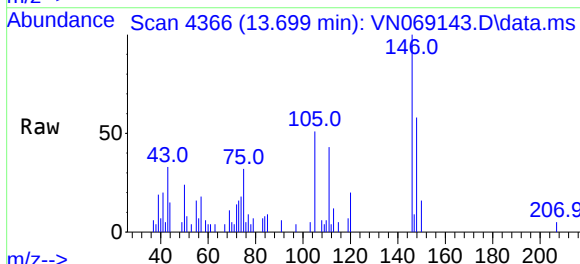
Tgt Ion:105 Resp: 8105
Ion Ratio Lower Upper
105 100
120 46.2 0.0 0.25

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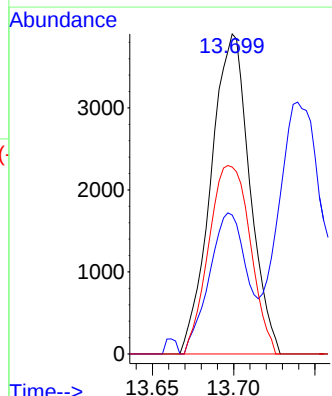
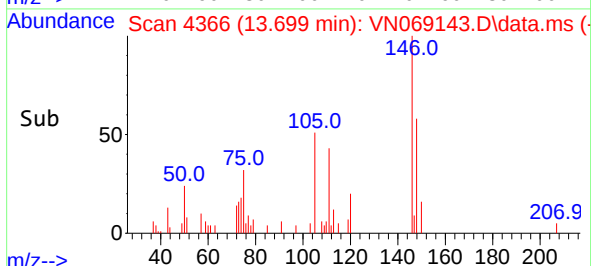
Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

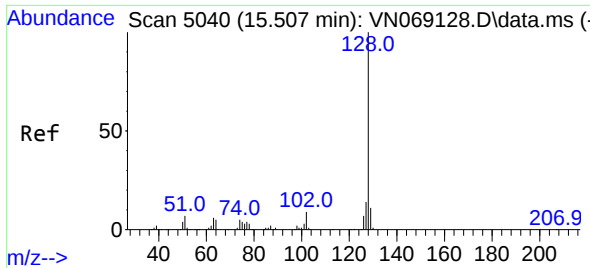


#84
1,4-Dichlorobenzene
Concen: 0.963 ug/l
RT: 13.699 min Scan# 4366
Delta R.T. 0.003 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58



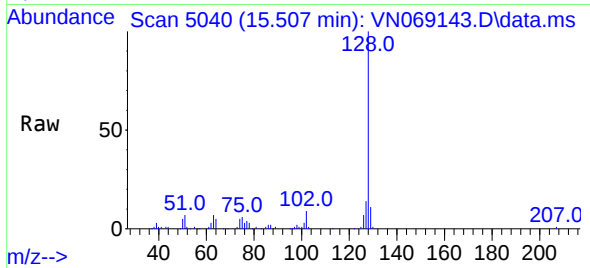
Tgt Ion:146 Resp: 6471
Ion Ratio Lower Upper
146 100
111 43.1 19.5 58.5
148 63.3 31.1 93.5





#91
Naphthalene
Concen: 10.949 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN069143.D
Acq: 22 Oct 2021 18:58

Instrument :
MSVOA_N
ClientSampleId :
211020075-02-VOA



Tgt Ion:128 Resp: 105307
Ion Ratio Lower Upper
128 100
127 13.0 10.7 16.1
129 10.6 9.0 13.6

Manual Integrations
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Reviewed By :John Carlone 10/25/2021
Supervised By :Mahesh Dadoda 10/25/2021

