

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
 Data File : VN069654.D
 Acq On : 26 Nov 2021 13:03
 Operator : JC/MD
 Sample : M4838-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 21123018-01-VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/29/2021
 Supervised By :Mahesh Dadoda 11/29/2021

Quant Time: Nov 29 00:17:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	190514	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1066922	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	931581	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	521694	31.574	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.233%			
60) 4-Bromofluorobenzene	12.733	95	403144	27.042	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.133%			
63) Toluene-d8	10.443	98	1302777	30.287	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.967%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.829	74	13619m	1.978	ug/l	
23) tert-Butyl Alcohol	5.377	59	9280825	3564.887	ug/l #	100
45) 1,4-Dioxane	9.569	88	22887	82.779	ug/l	89
58) 4-Methyl-2-Pentanone	10.333	43	166464	8.140	ug/l #	88
62) Toluene	10.507	91	23669	0.462	ug/l	99
64) Chlorobenzene	11.771	112	16389	0.534	ug/l	97
66) Ethyl Benzene	11.846	91	36489	0.644	ug/l	94
67) m/p-Xylenes	11.953	106	32869	1.562	ug/l	93
68) o-Xylene	12.283	106	23614	1.121	ug/l	90
70) Isopropylbenzene	12.578	105	44966	0.816	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	26065	0.591	ug/l #	82
84) 1,4-Dichlorobenzene	13.696	146	24976	1.185	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	4655	0.463	ug/l	99
91) Naphthalene	15.507	128	39985	1.381	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.702	180	6556	0.664	ug/l	94

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

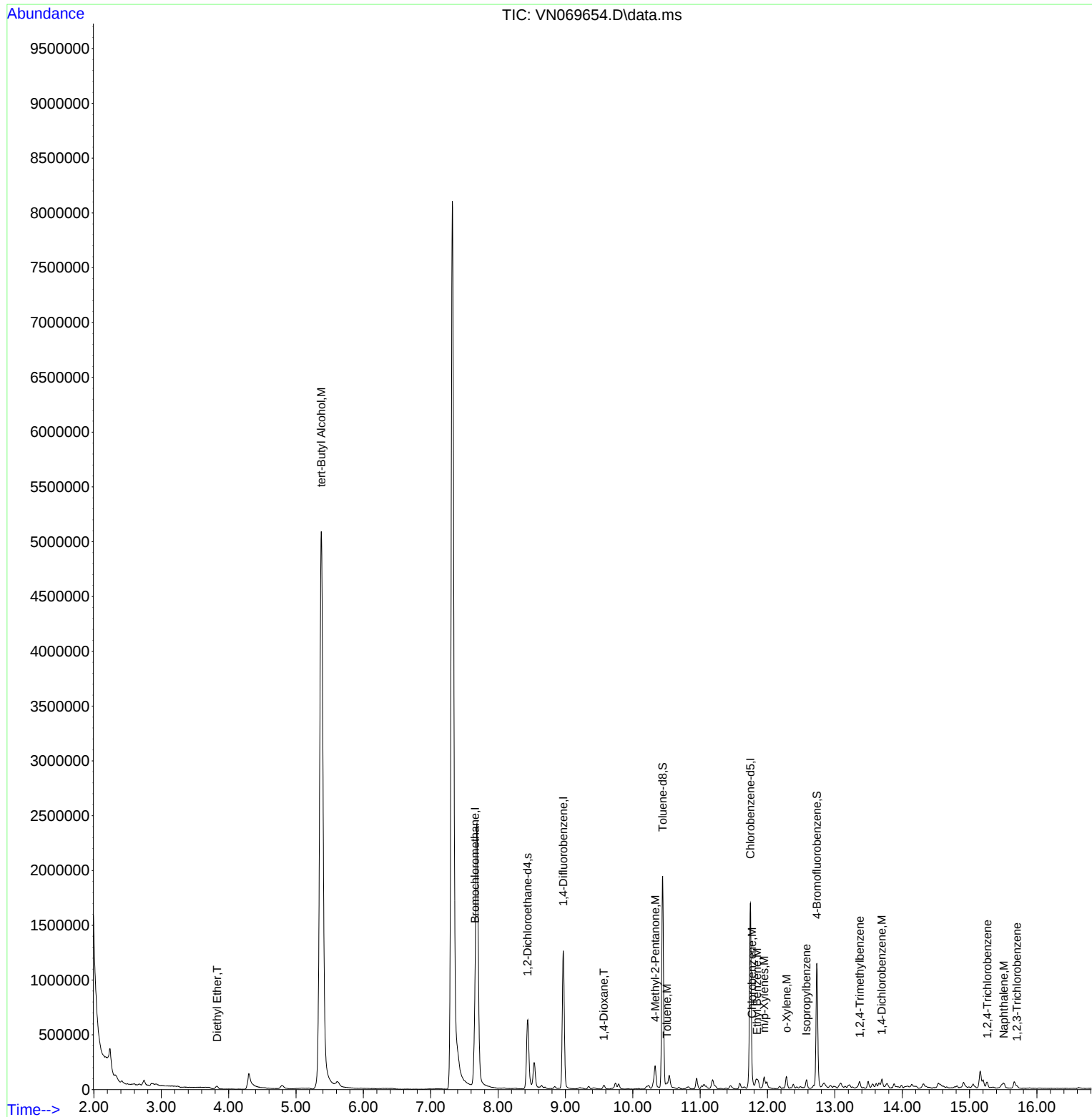
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112621\
Data File : VN069654.D
Acq On : 26 Nov 2021 13:03
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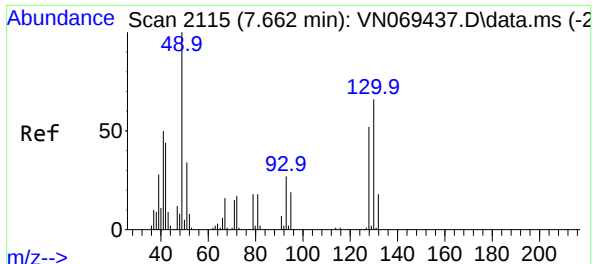
Instrument :
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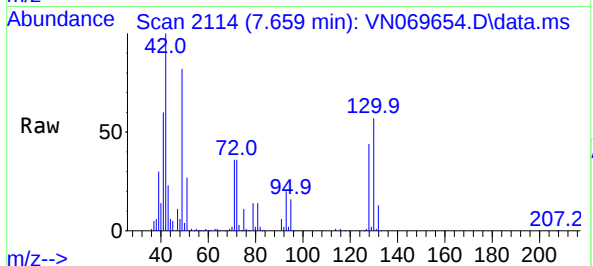
Quant Time: Nov 29 00:17:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Nov 10 14:36:17 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

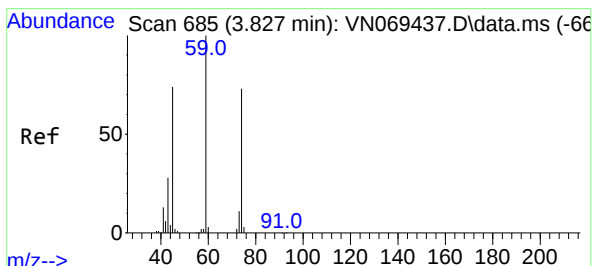
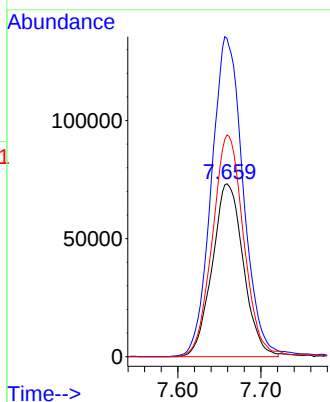
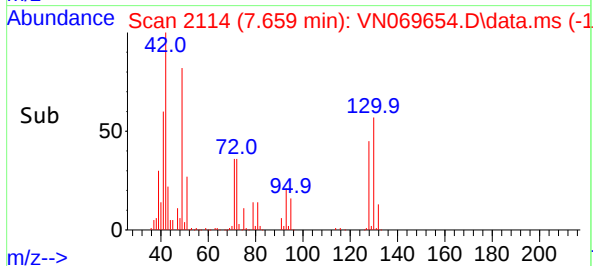
Instrument :
MSVOA_N
ClientSampleId :
21123018-01-VOA



Tgt Ion:128 Resp: 190514
Ion Ratio Lower Upper
128 100
49 189.4 0.0 392.3
130 127.9 0.0 320.2

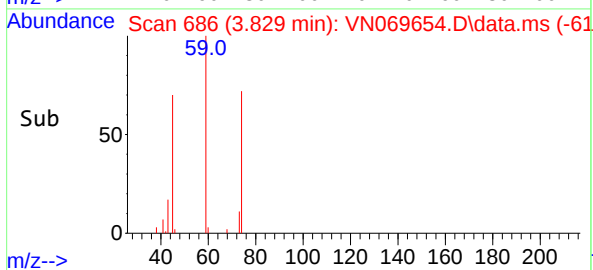
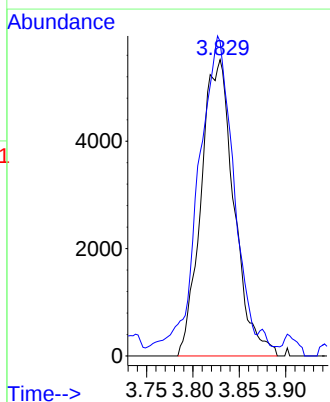
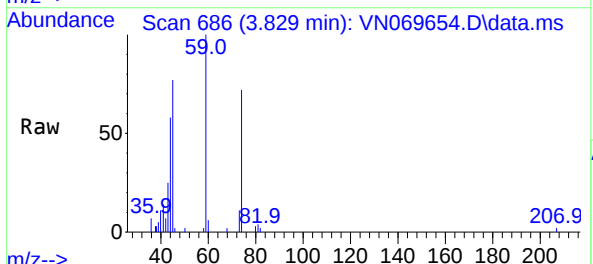
Manual Integrations
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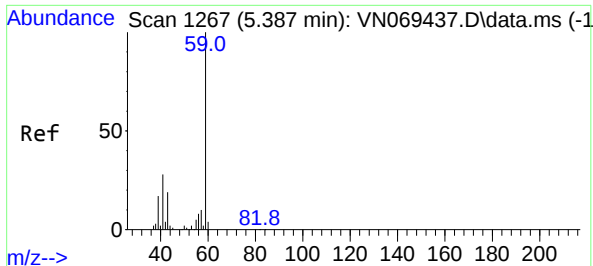
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#8
Diethyl Ether
Concen: 1.978 ug/l m
RT: 3.829 min Scan# 686
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Tgt Ion: 74 Resp: 13619
Ion Ratio Lower Upper
74 100
45 0.4 17.6 158.8#





#23

tert-Butyl Alcohol

Concen: 3564.887 ug/l

RT: 5.377 min Scan# 11

Delta R.T. 0.011 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

Instrument :

MSVOA_N

ClientSampleId :

21123018-01-VOA

Tgt Ion: 59 Resp: 928082

Ion Ratio Lower Upper

59 100

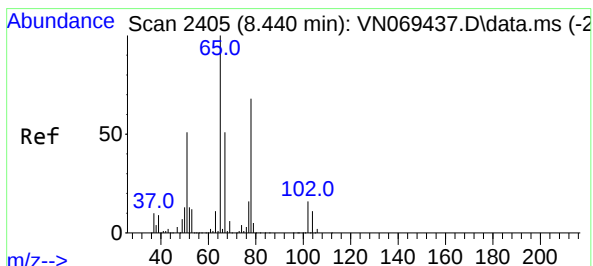
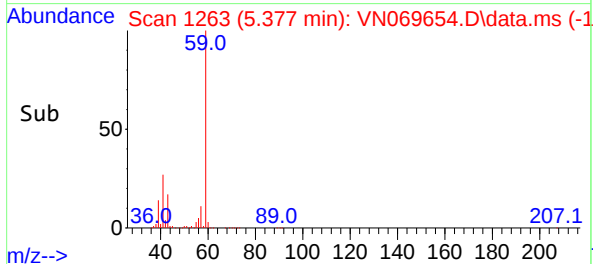
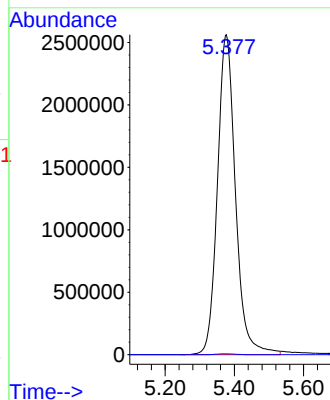
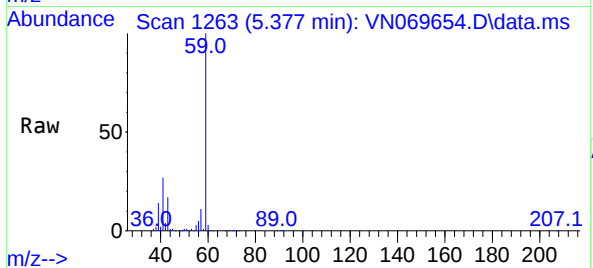
52 0.1 0.0 0.0

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#27

1,2-Dichloroethane-d4

Concen: 31.574 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. -0.003 min

Lab File: VN069654.D

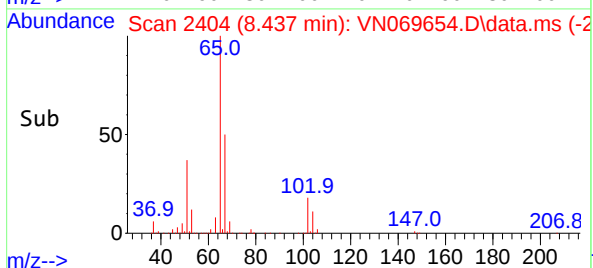
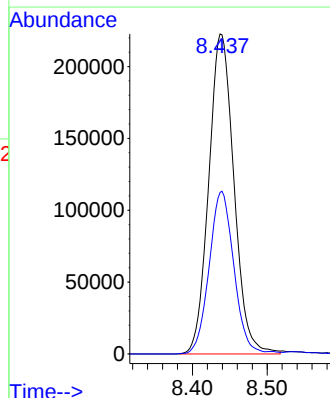
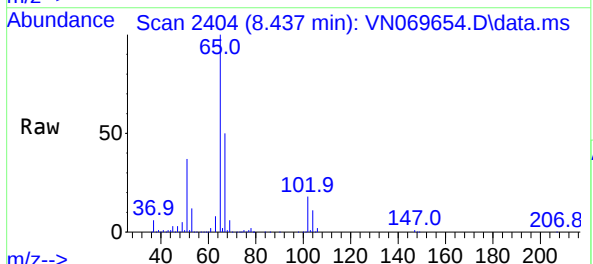
Acq: 26 Nov 2021 13:03

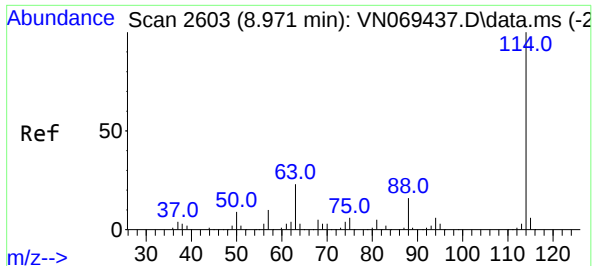
Tgt Ion: 65 Resp: 521694

Ion Ratio Lower Upper

65 100

67 49.6 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 206692

Delta R.T. -0.003 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion:114 Resp: 106692

Ion Ratio Lower Upper

114 100

63 22.8 15.8 23.6

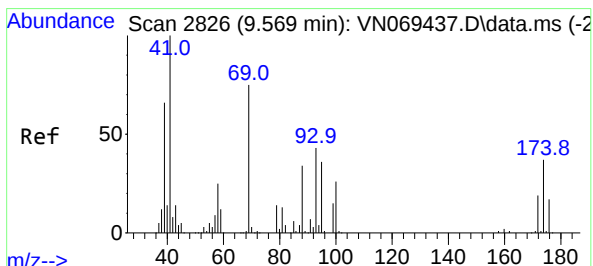
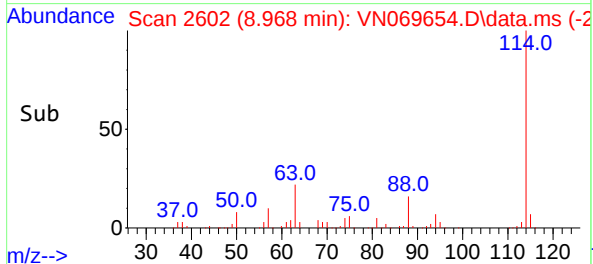
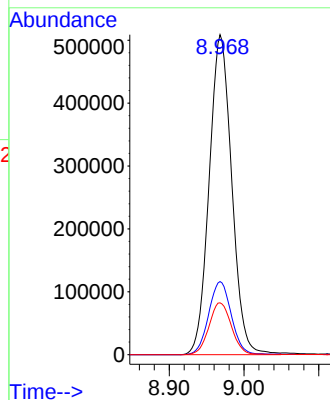
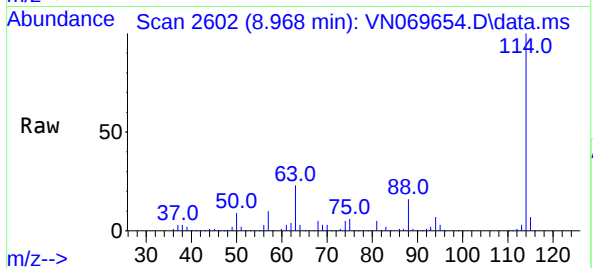
88 16.2 11.6 17.4

Manual Integrations

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#45

1,4-Dioxane

Concen: 82.779 ug/l

RT: 9.569 min Scan# 2826

Delta R.T. 0.000 min

Lab File: VN069654.D

Acq: 26 Nov 2021 13:03

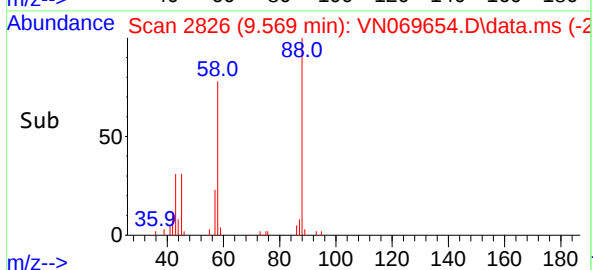
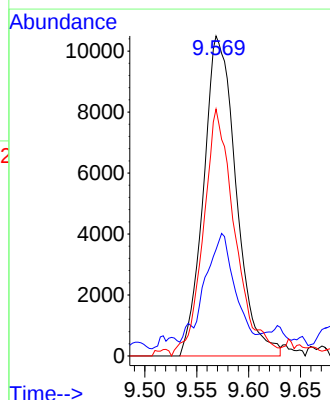
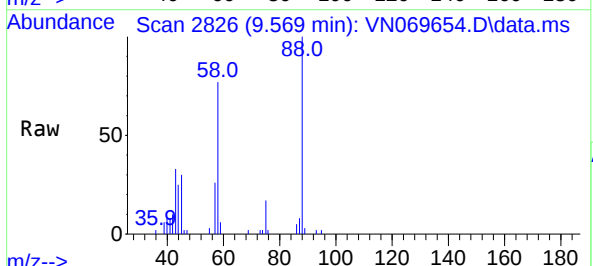
Tgt Ion: 88 Resp: 22887

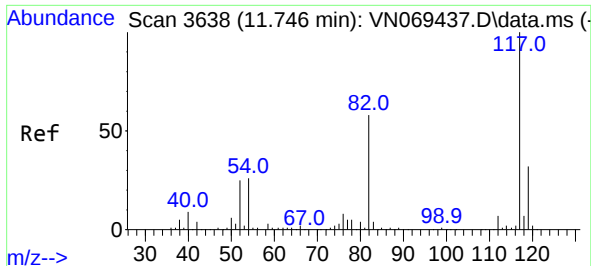
Ion Ratio Lower Upper

88 100

43 26.3 25.0 37.6

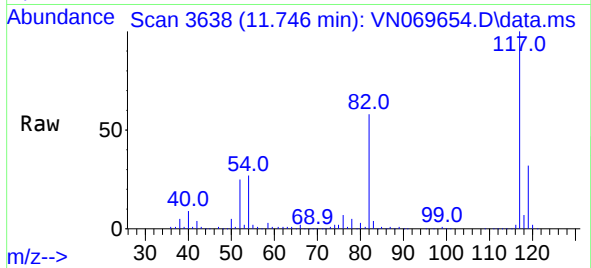
58 71.6 49.4 74.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

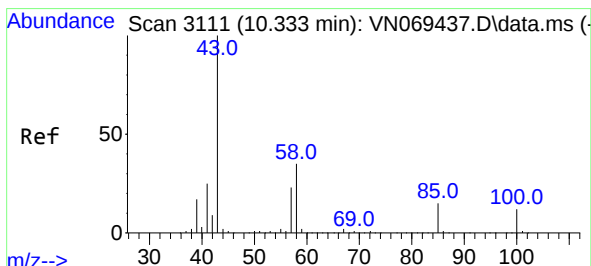
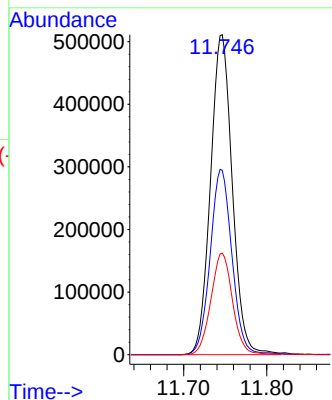
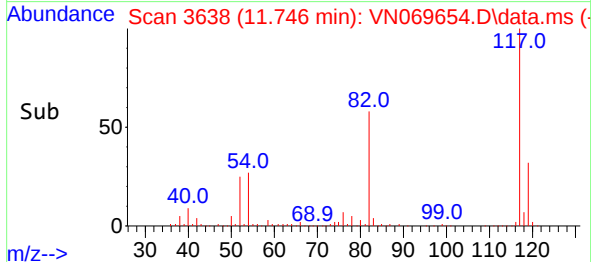
Instrument :
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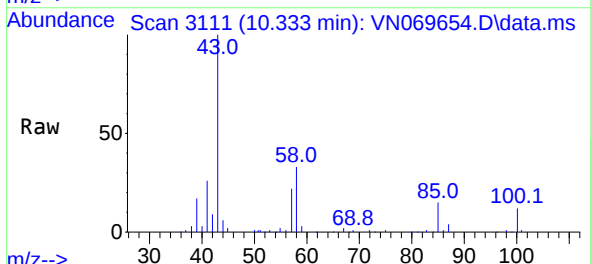
Tgt Ion: 117 Resp: 93158
Ion Ratio Lower Upper
117 100
82 58.1 43.6 65.4
119 31.5 25.8 38.6

Manual Integrations
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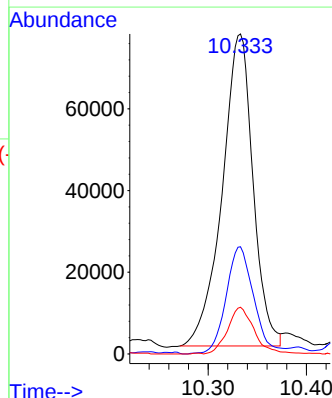
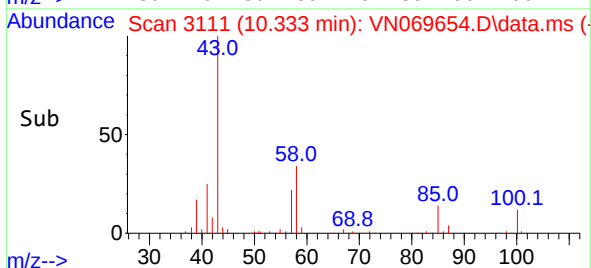
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021

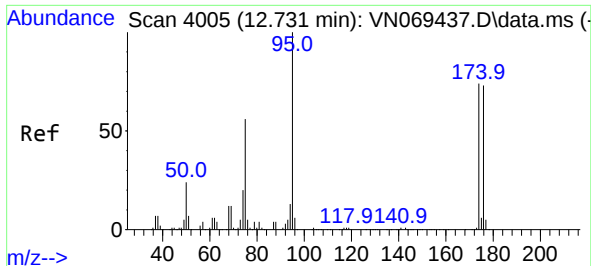


#58
4-Methyl-2-Pentanone
Concen: 8.140 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03



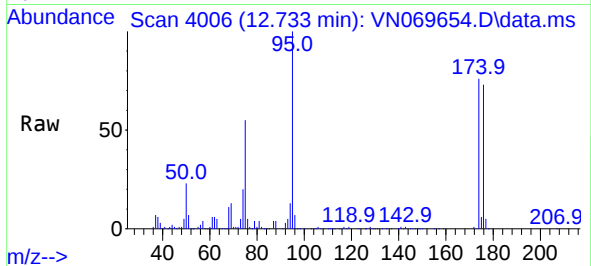
Tgt Ion: 43 Resp: 166464
Ion Ratio Lower Upper
43 100
58 30.8 30.0 45.0
85 12.9 15.0 22.6





#60
4-Bromofluorobenzene
Concen: 27.042 ug/l
RT: 12.733 min Scan# 4005
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

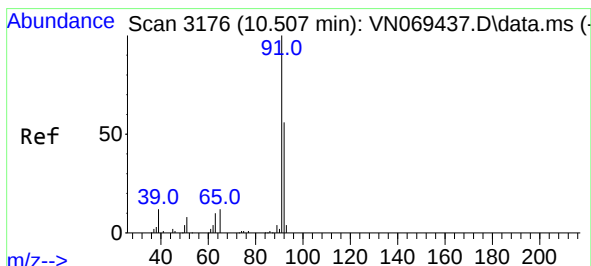
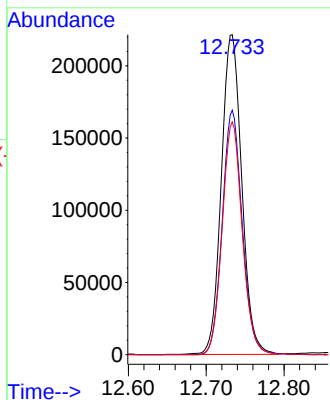
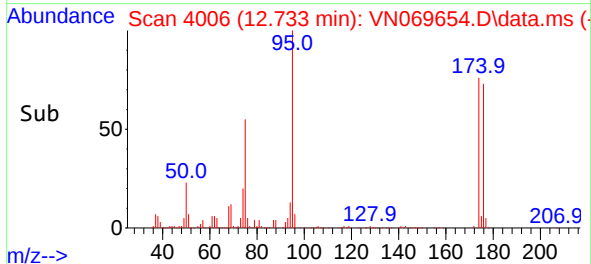
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21123018-01-VOA



Tgt Ion: 95 Resp: 403144
Ion Ratio Lower Upper
95 100
174 74.8 62.9 94.3
176 71.2 61.0 91.4

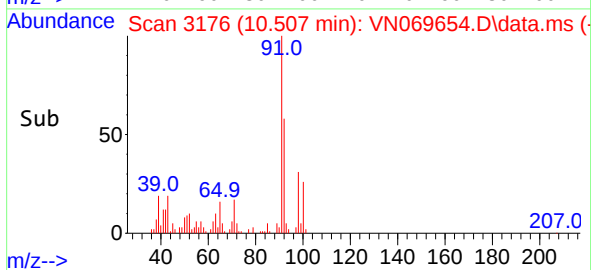
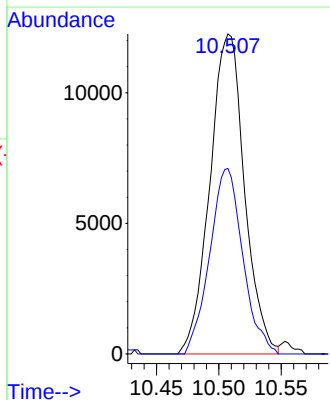
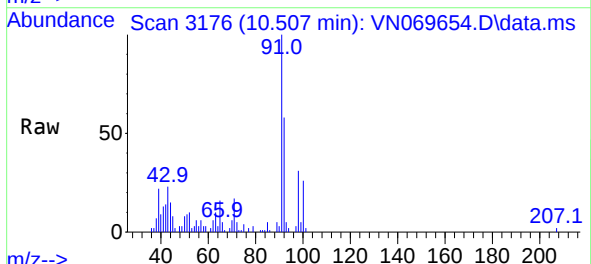
Manual Integrations
APPROVED

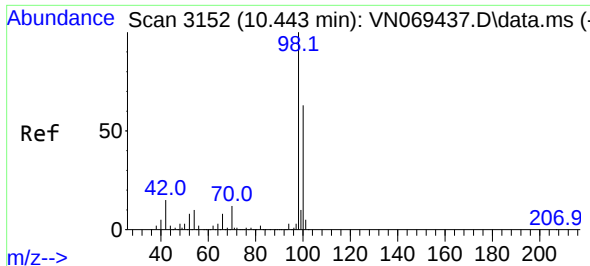
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#62
Toluene
Concen: 0.462 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

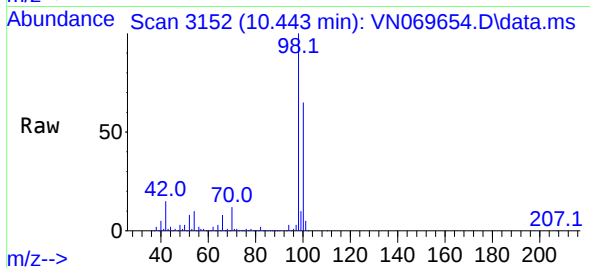
Tgt Ion: 91 Resp: 23669
Ion Ratio Lower Upper
91 100
92 55.4 44.6 67.0





#63
Toluene-d8
Concen: 30.287 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

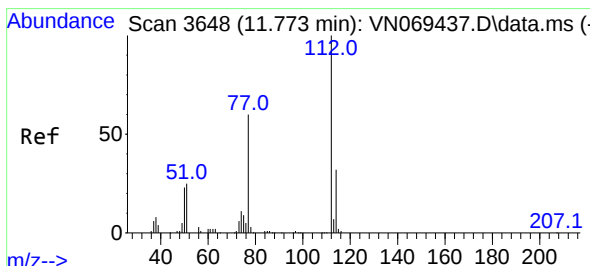
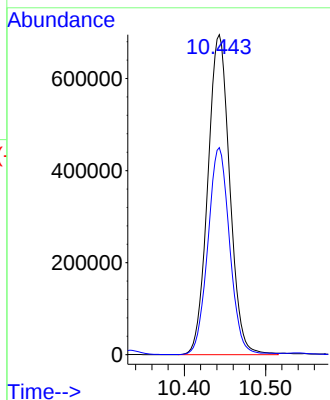
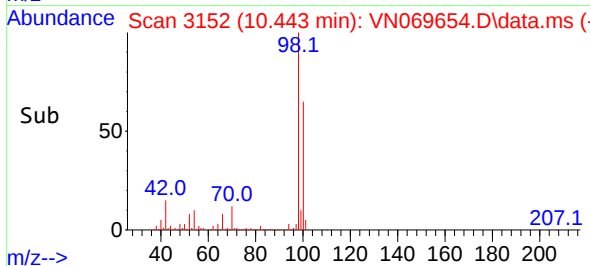
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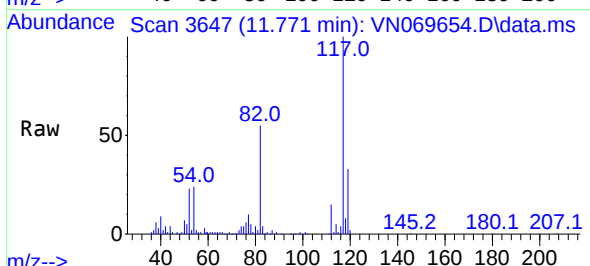
Tgt Ion: 98 Resp: 130277
Ion Ratio Lower Upper
98 100
100 64.2 50.6 76.0

Manual Integrations
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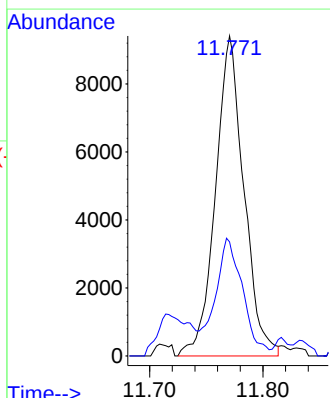
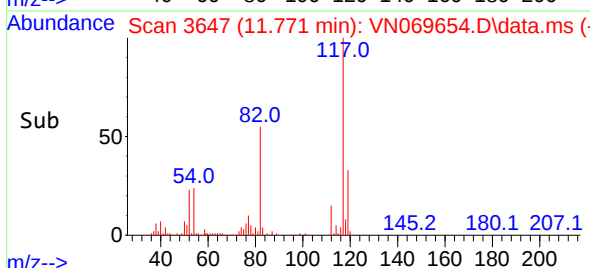
Reviewed By :John Carlone 11/29/2021
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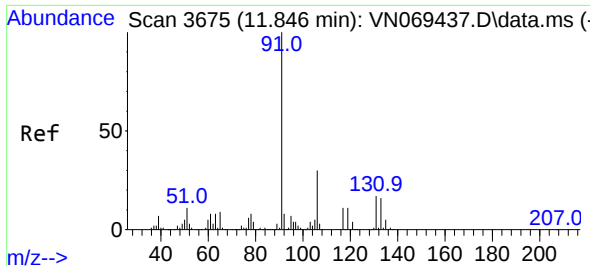


#64
Chlorobenzene
Concen: 0.534 ug/l
RT: 11.771 min Scan# 3647
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03



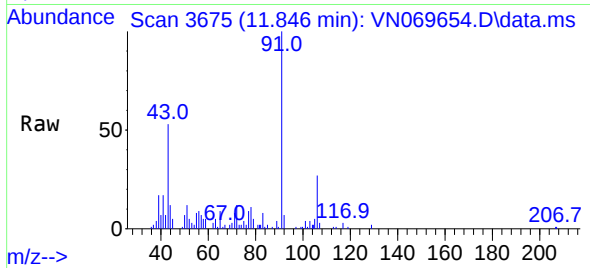
Tgt Ion:112 Resp: 16389
Ion Ratio Lower Upper
112 100
114 30.6 25.8 38.6





#66
Ethyl Benzene
Concen: 0.644 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

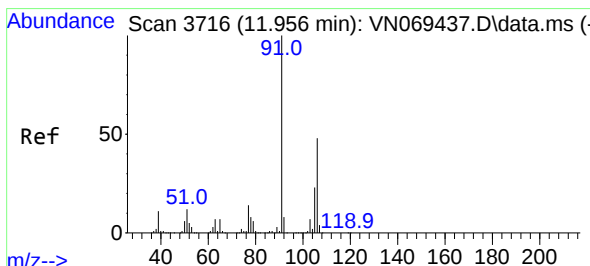
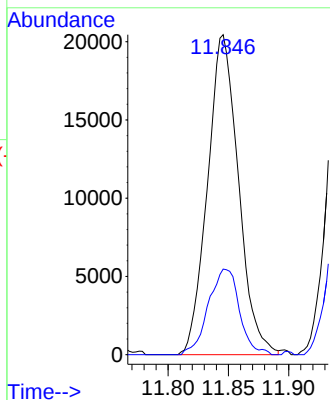
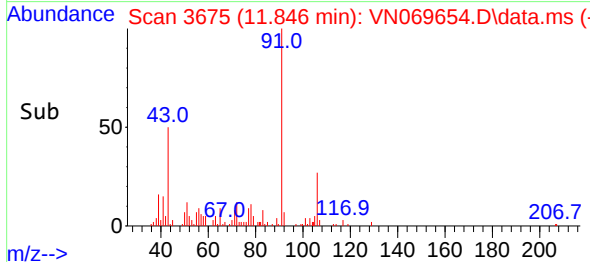
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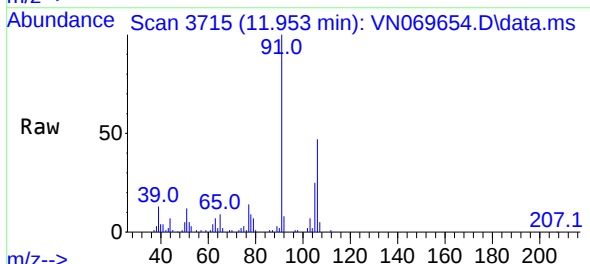
Tgt Ion: 91 Resp: 36489
Ion Ratio Lower Upper
91 100
106 26.7 24.0 36.0

Manual Integrations
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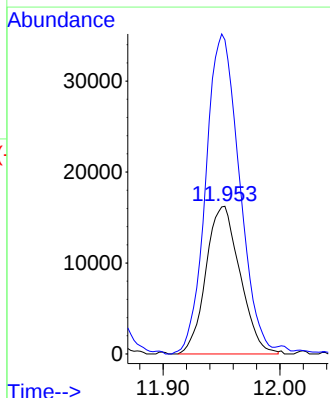
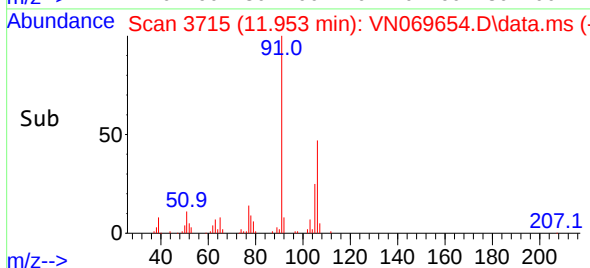
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021

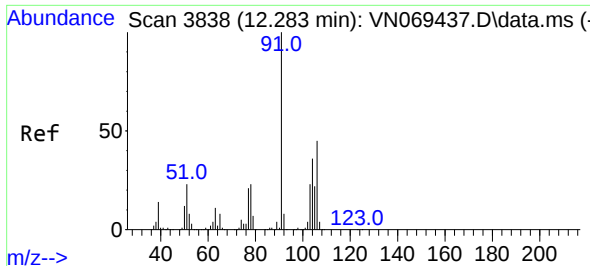


#67
m/p-Xylenes
Concen: 1.562 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03



Tgt Ion:106 Resp: 32869
Ion Ratio Lower Upper
106 100
91 214.2 162.9 244.3





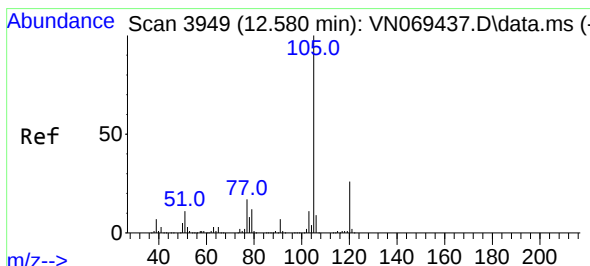
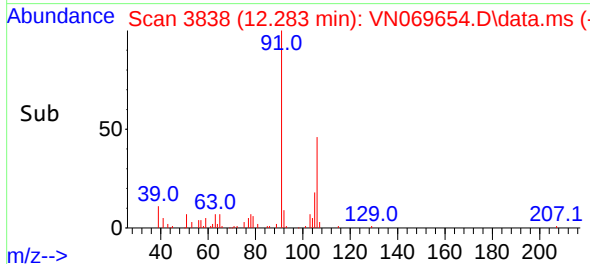
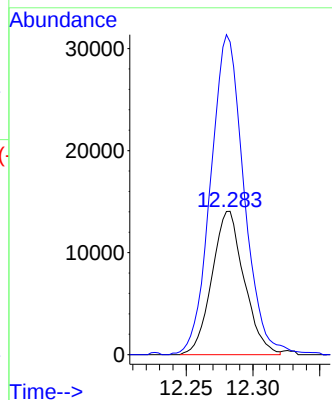
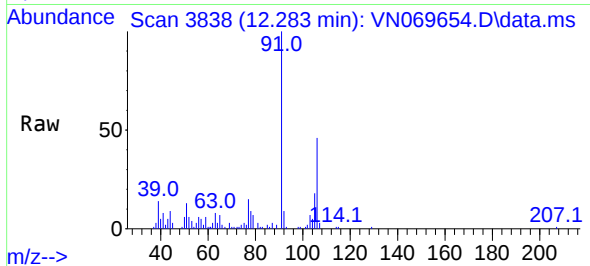
#68
o-Xylene
Concen: 1.121 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Instrument :
MSVOA_N
ClientSampleId :
21123018-01-VOA

Tgt Ion:106 Resp: 23614
Ion Ratio Lower Upper
106 100
91 231.3 107.7 323.1

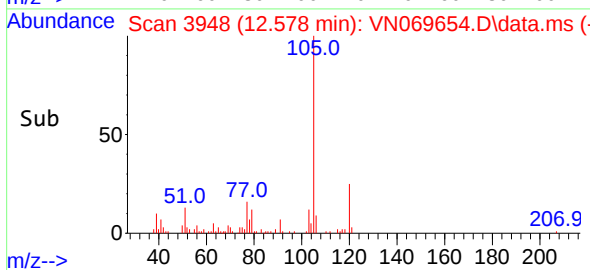
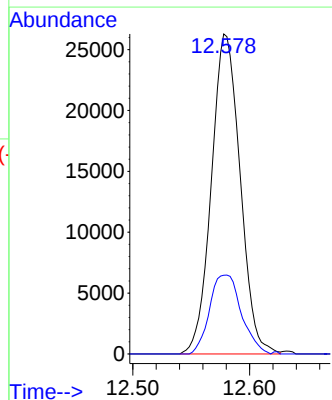
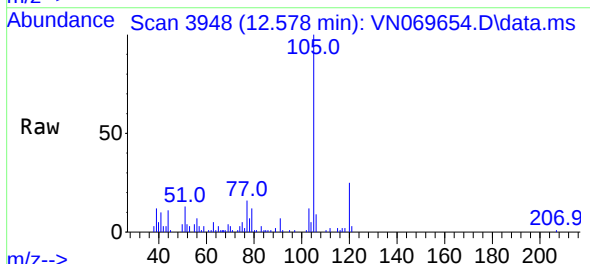
Manual Integrations
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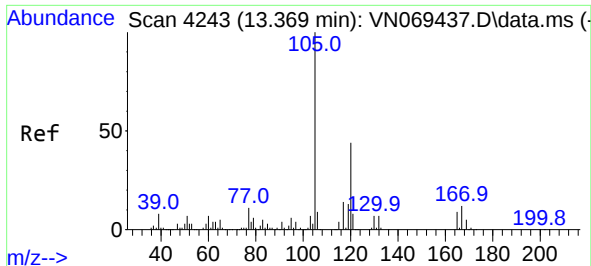
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#70
Isopropylbenzene
Concen: 0.816 ug/l
RT: 12.578 min Scan# 3948
Delta R.T. -0.003 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

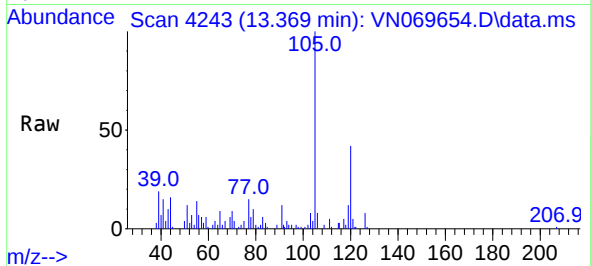
Tgt Ion:105 Resp: 44966
Ion Ratio Lower Upper
105 100
120 27.2 18.3 34.1





#80
1,2,4-Trimethylbenzene
Concen: 0.591 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

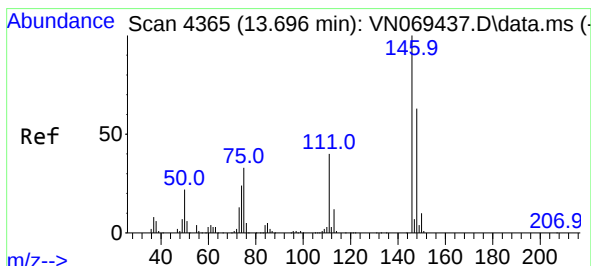
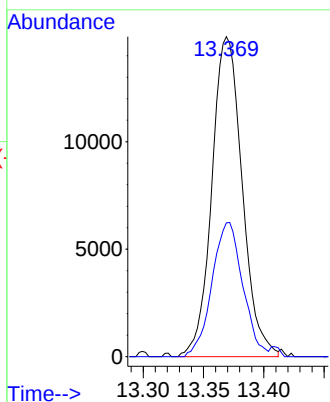
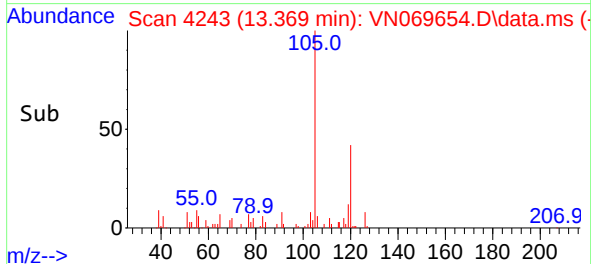
Instrument :
MSVOA_N
ClientSampleId :
21123018-01-VOA



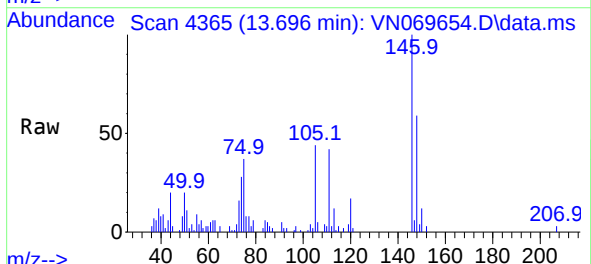
Tgt Ion:105 Resp: 2606
Ion Ratio Lower Upper
105 100
120 42.5 0.0 0.2

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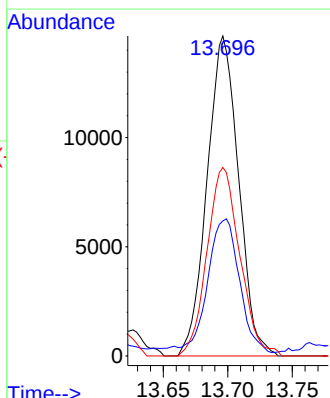
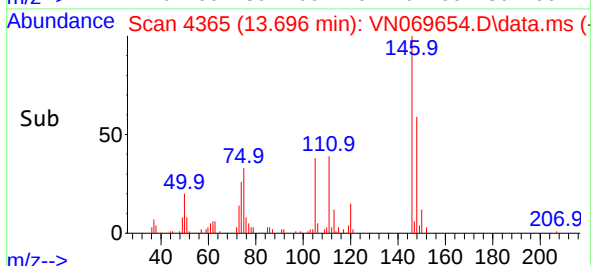
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021

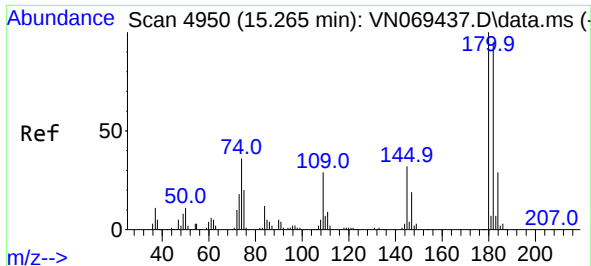


#84
1,4-Dichlorobenzene
Concen: 1.185 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03



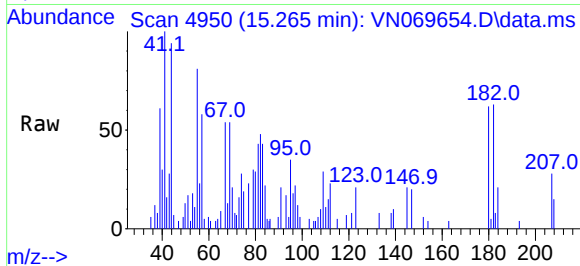
Tgt Ion:146 Resp: 24976
Ion Ratio Lower Upper
146 100
111 41.7 19.5 58.5
148 61.0 31.1 93.5





#89
1,2,4-Trichlorobenzene
Concen: 0.463 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

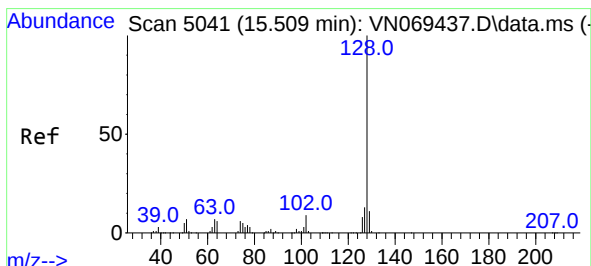
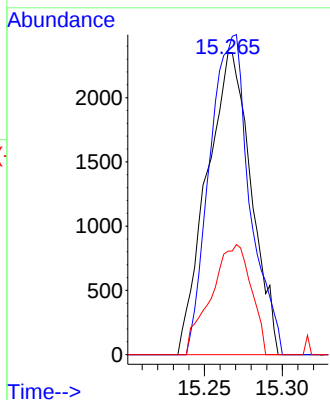
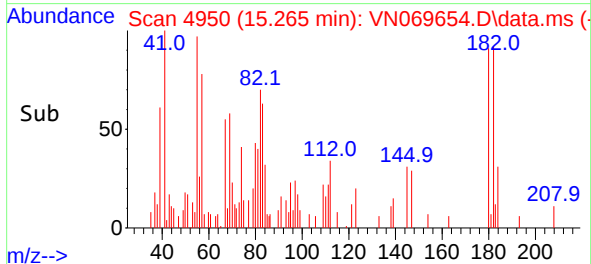
Instrument :
MSVOA_N
ClientSampleId :
21123018-01-VOA



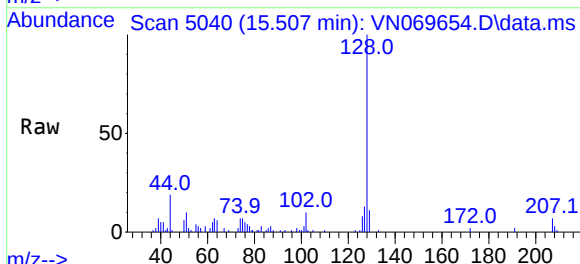
Tgt Ion:180 Resp: 465
Ion Ratio Lower Upper
180 100
182 96.1 77.7 116.5
145 33.0 26.6 39.8

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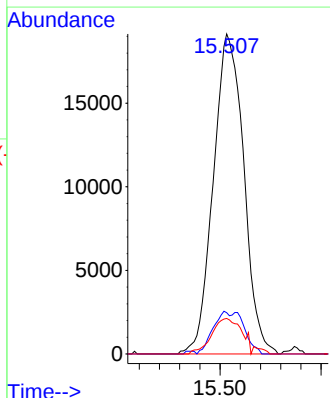
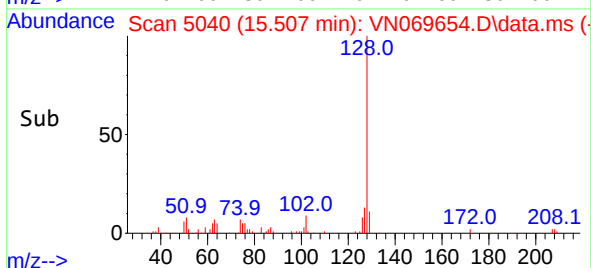
Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021

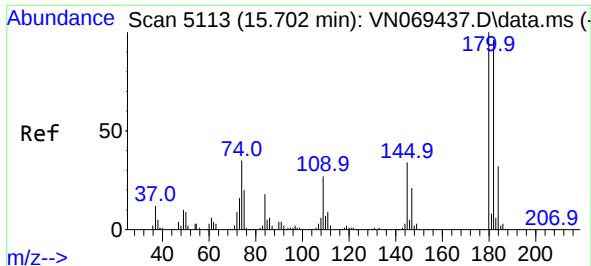


#91
Naphthalene
Concen: 1.381 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03



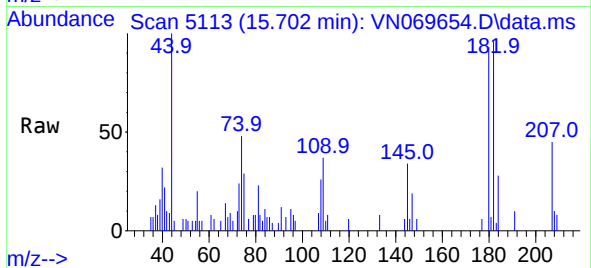
Tgt Ion:128 Resp: 39985
Ion Ratio Lower Upper
128 100
127 7.4 10.7 16.1#
129 10.4 9.0 13.6





#92
1,2,3-Trichlorobenzene
Concen: 0.664 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN069654.D
Acq: 26 Nov 2021 13:03

Instrument :
MSVOA_N
ClientSampleId :
21123018-01-VOA



Tgt Ion:180 Resp: 6550
Ion Ratio Lower Upper
180 100
182 92.9 0.0 190.0
145 24.5 0.0 67.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021

