

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
 Data File : VN084876.D
 Acq On : 15 Nov 2024 18:00
 Operator : JC\MD
 Sample : P4844-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241113075-01-VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/17/2024
 Supervised By :Mahesh Dadoda 11/18/2024

Quant Time: Nov 15 22:28:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	24378	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	131256	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	127289	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	60380	30.808	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.700%			
60) 4-Bromofluorobenzene	12.847	95	60280	27.504	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.667%			
63) Toluene-d8	10.565	98	161151	26.743	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 89.133%#			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.947	74	3167	3.449	ug/l	78
12) Methyl Acetate	5.024	43	4846m	2.188	ug/l	
15) Acetone	4.430	58	13864	74.479	ug/l	91
16) Carbon Disulfide	4.689	76	7832	1.874	ug/l	97
23) tert-Butyl Alcohol	5.541	59	3022992	11952.402	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	10797	2.350	ug/l #	76
34) Benzene	8.600	78	27262	4.172	ug/l #	85
62) Toluene	10.629	91	80765	11.140	ug/l	98
64) Chlorobenzene	11.888	112	6131	1.401	ug/l #	88
66) Ethyl Benzene	11.964	91	80469	10.561	ug/l	97
67) m/p-Xylenes	12.065	106	32906	11.281	ug/l	100
68) o-Xylene	12.394	106	18066	6.420	ug/l	99
70) Isopropylbenzene	12.694	105	6074	0.869	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	6111	1.023	ug/l	92
80) 1,2,4-Trimethylbenzene	13.482	105	21472	3.564	ug/l	98
82) p-Isopropyltoluene	13.729	119	50130	8.766	ug/l	96
84) 1,4-Dichlorobenzene	13.811	146	7992	2.426	ug/l	92
91) Naphthalene	15.641	128	123830	24.238	ug/l	100

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

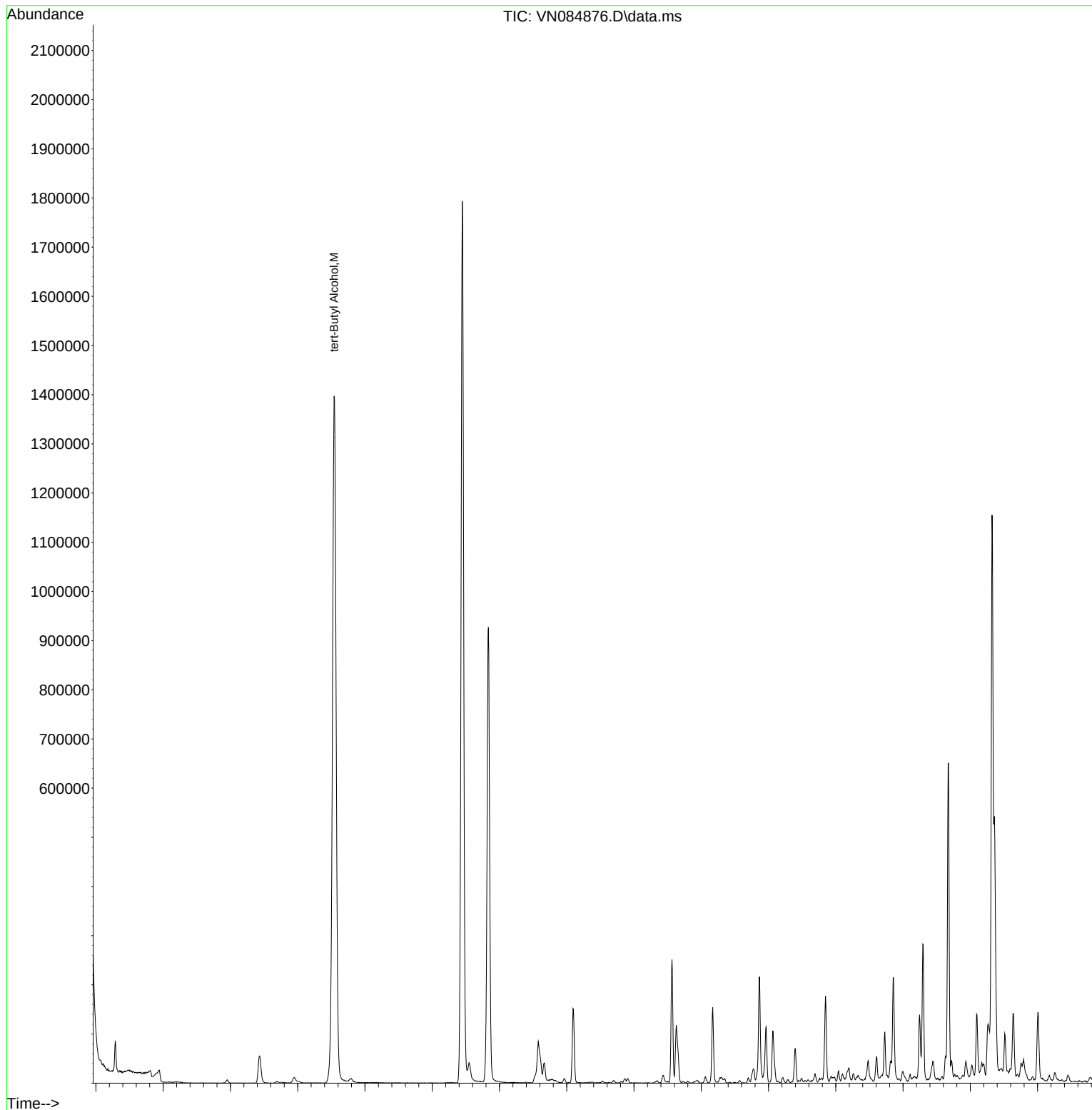
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
Data File : VN084876.D
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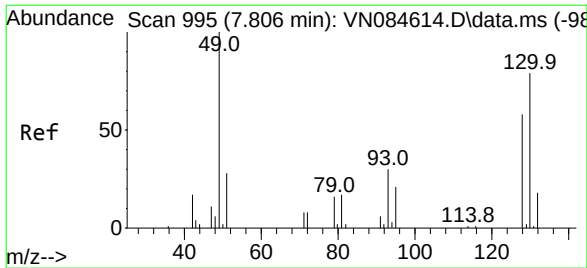
Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Quant Time: Nov 15 22:28:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
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APPROVED

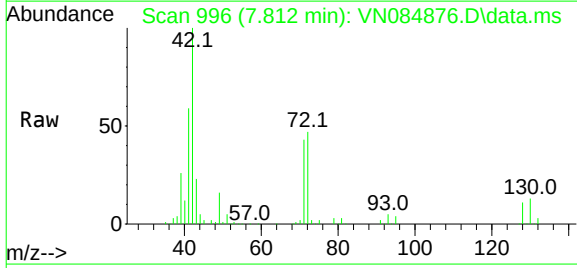
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

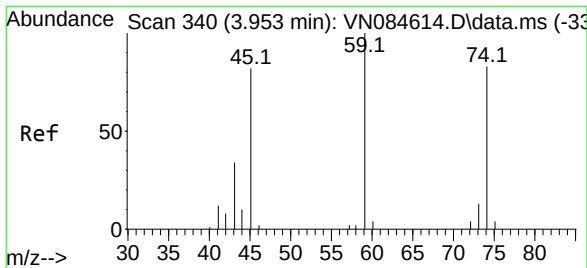
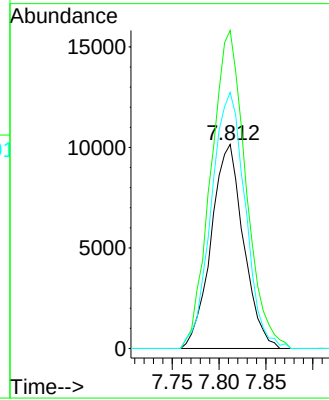
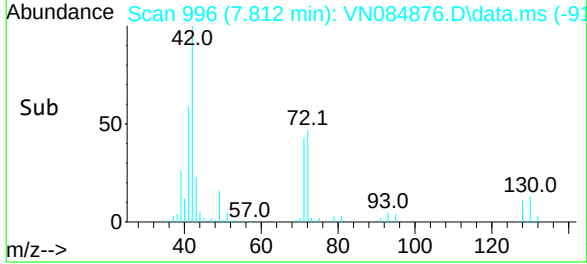
Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA



Tgt Ion:128 Resp: 24378
Ion Ratio Lower Upper
128 100
49 167.7 0.0 427.0
130 131.9 0.0 322.2

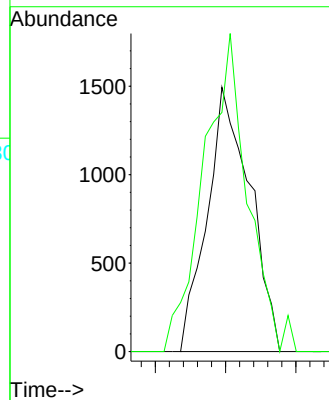
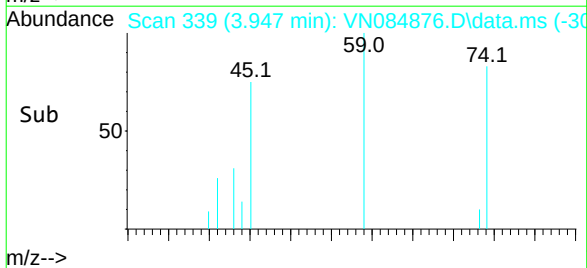
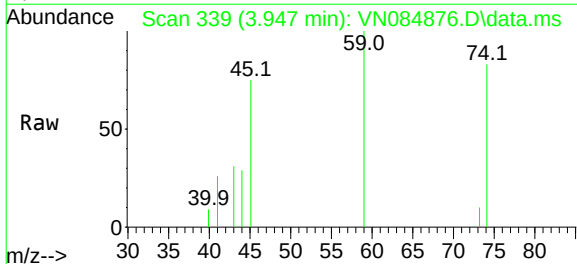
Manual Integrations
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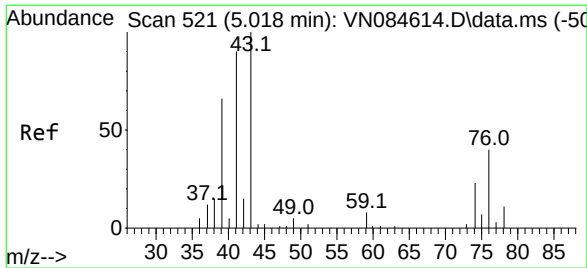
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#8
Diethyl Ether
Concen: 3.449 ug/l
RT: 3.947 min Scan# 339
Delta R.T. -0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion: 74 Resp: 3167
Ion Ratio Lower Upper
74 100
45 120.8 19.8 178.4





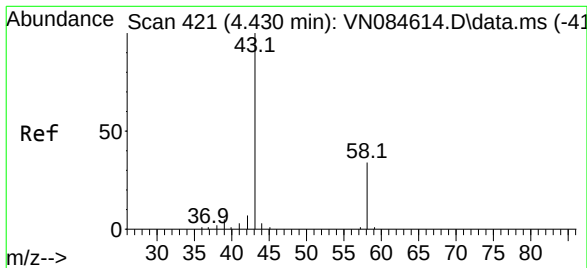
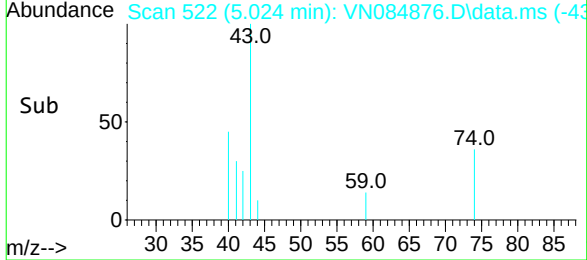
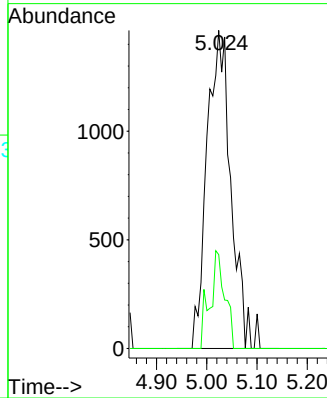
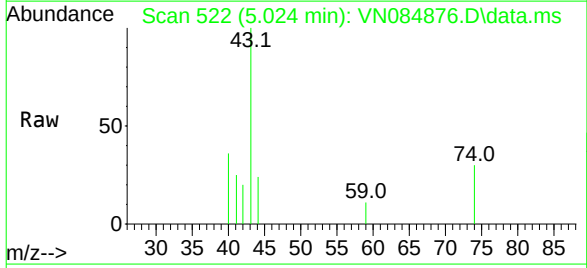
#12
Methyl Acetate
Concen: 2.188 ug/l m
RT: 5.024 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Tgt Ion: 43 Resp: 4846
Ion Ratio Lower Upper
43 100
74 29.5 19.0 28.4#

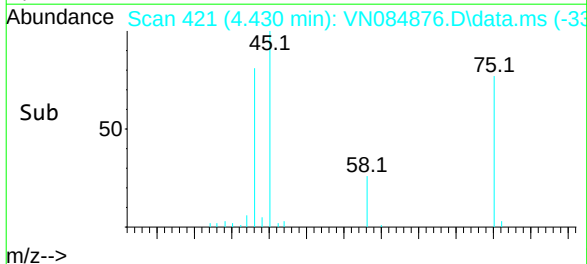
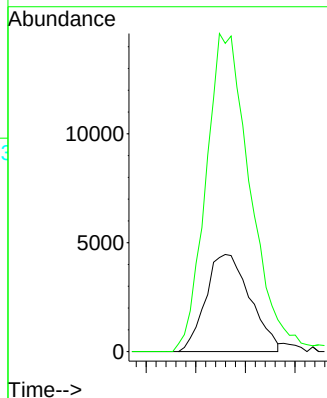
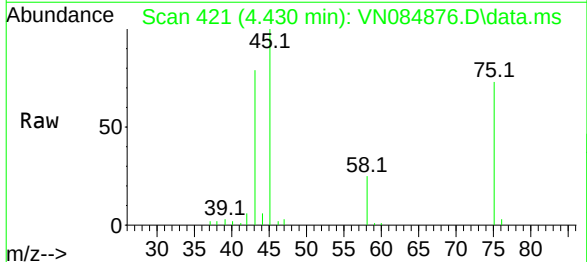
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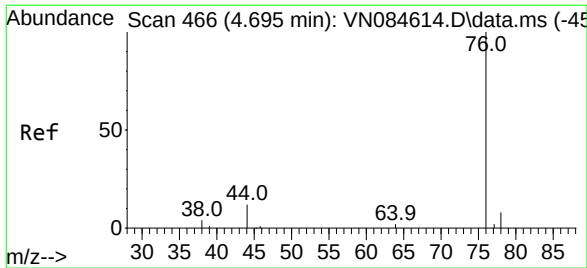
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#15
Acetone
Concen: 74.479 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

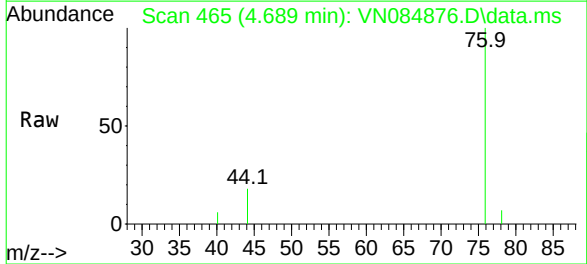
Tgt Ion: 58 Resp: 13864
Ion Ratio Lower Upper
58 100
43 309.3 233.0 349.6





#16
Carbon Disulfide
Concen: 1.874 ug/l
RT: 4.689 min Scan# 46
Delta R.T. -0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

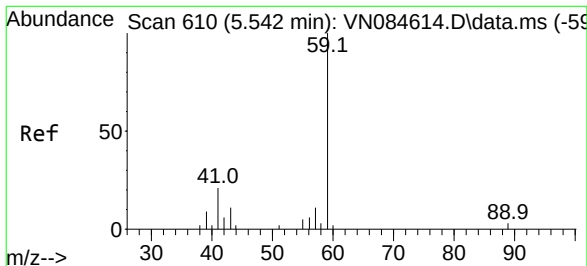
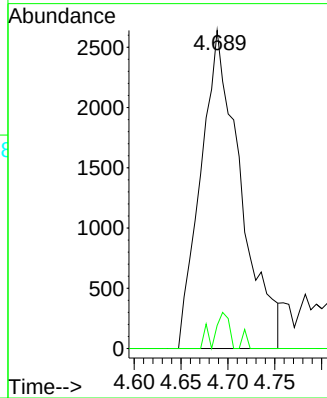
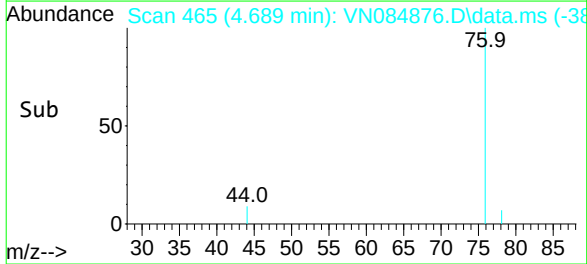
Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA



Tgt Ion: 76 Resp: 7832
Ion Ratio Lower Upper
76 100
78 7.2 6.6 9.8

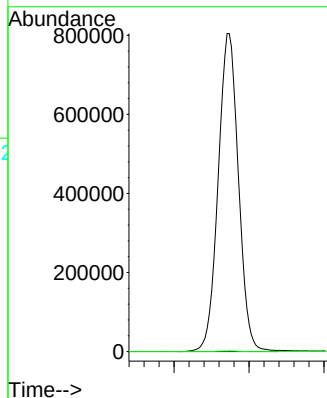
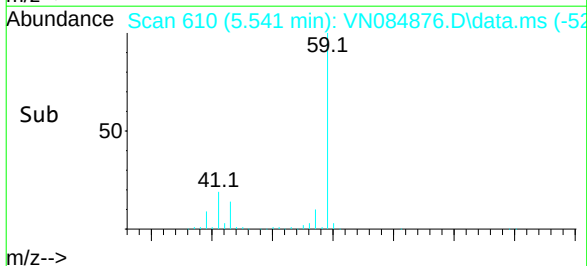
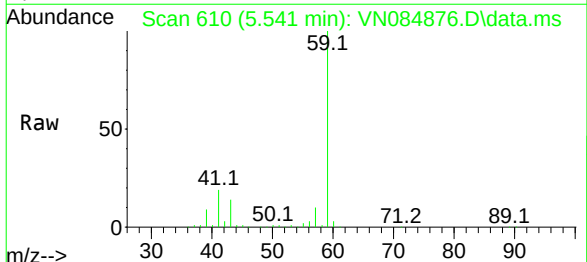
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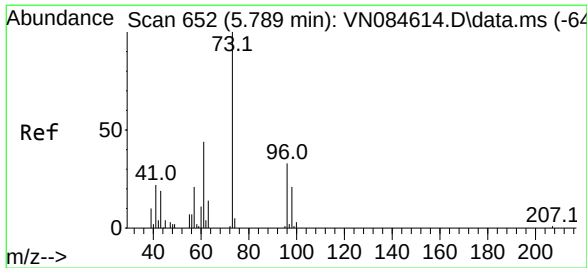
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#23
tert-Butyl Alcohol
Concen: 11952.402 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion: 59 Resp: 3022992
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#





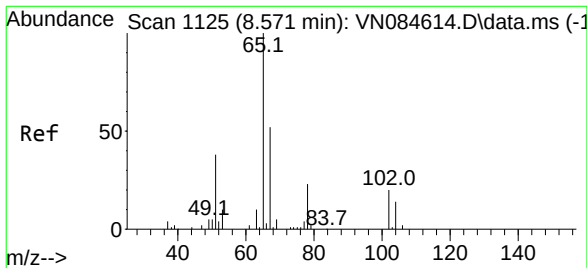
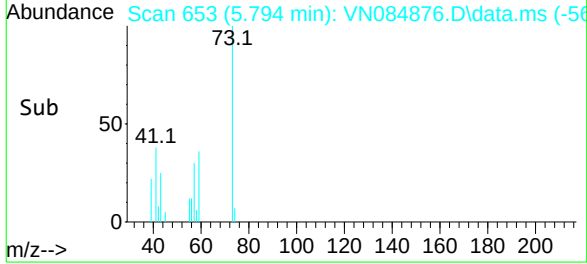
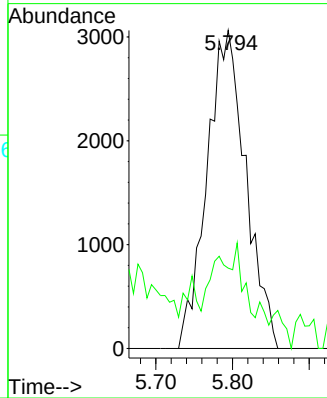
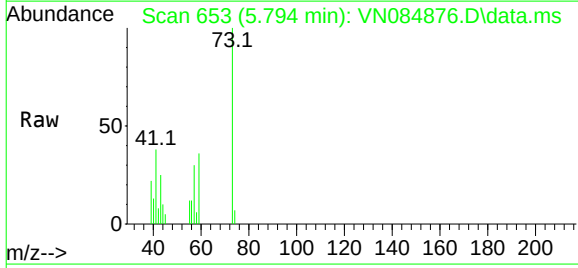
#24
Methyl tert-Butyl Ether
Concen: 2.350 ug/l
RT: 5.794 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Tgt Ion: 73 Resp: 10797
Ion Ratio Lower Upper
73 100
43 9.3 16.5 24.7#

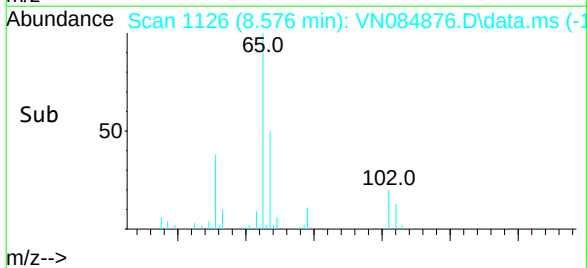
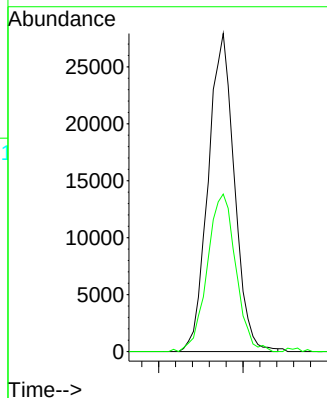
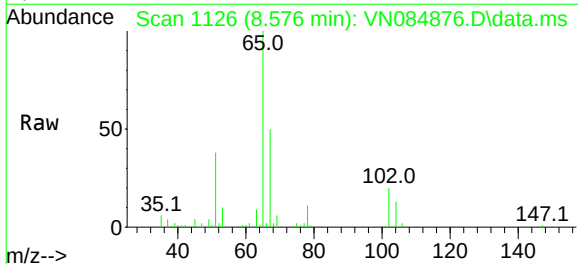
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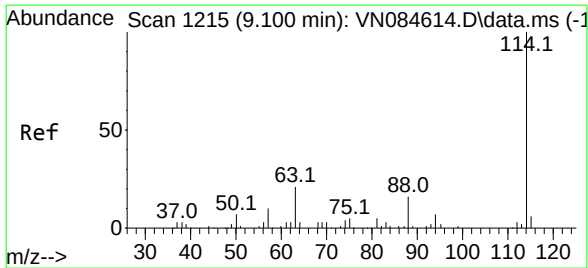
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#27
1,2-Dichloroethane-d4
Concen: 30.808 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

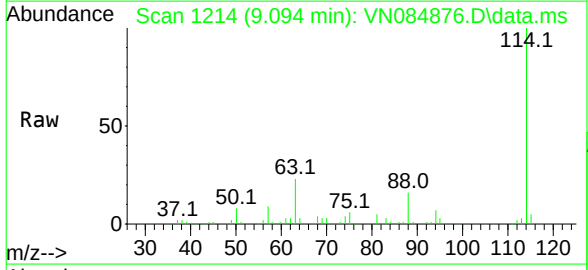
Tgt Ion: 65 Resp: 60380
Ion Ratio Lower Upper
65 100
67 53.2 40.7 61.1





#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.094 min Scan# 1215
 Delta R.T. -0.006 min
 Lab File: VN084876.D
 Acq: 15 Nov 2024 18:00

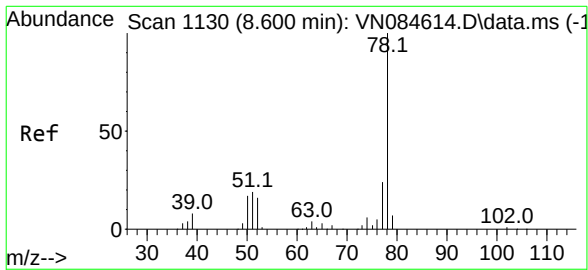
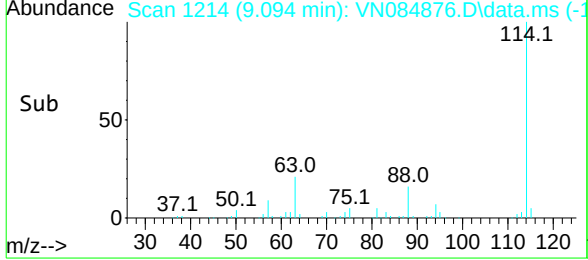
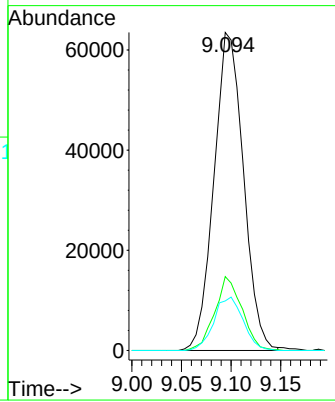
Instrument : MSVOA_N
 ClientSampleId : 241113075-01-VOA



Tgt Ion:	114	Resp:	131256
Ion	Ratio	Lower	Upper
114	100		
63	21.4	16.8	25.2
88	16.7	12.9	19.3

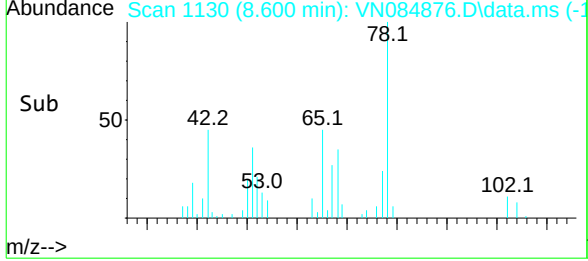
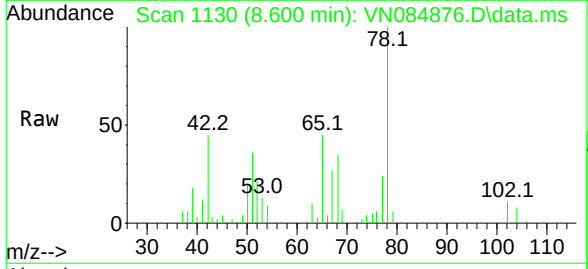
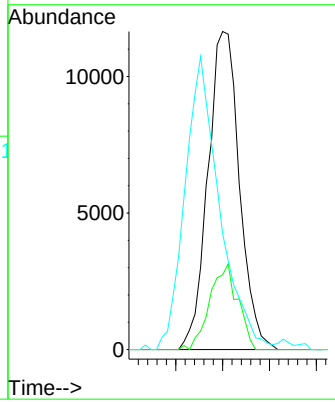
Manual Integrations
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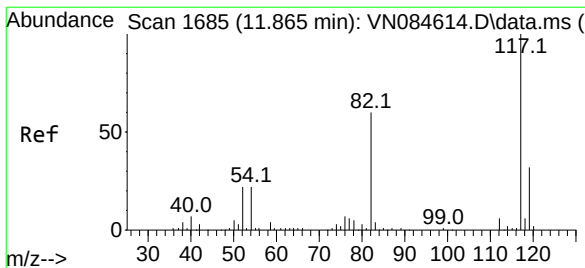
Reviewed By :John Carlone 11/17/2024
 Supervised By :Mahesh Dadoda 11/18/2024



#34
 Benzene
 Concen: 4.172 ug/l
 RT: 8.600 min Scan# 1130
 Delta R.T. -0.000 min
 Lab File: VN084876.D
 Acq: 15 Nov 2024 18:00

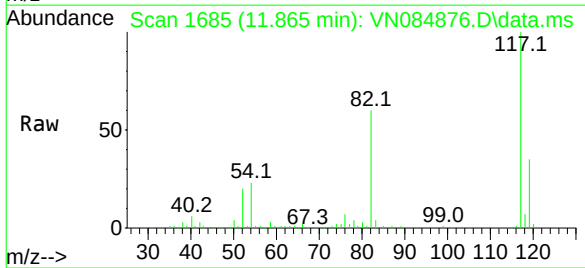
Tgt Ion:	78	Resp:	27262
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9
51	34.5	16.1	24.1#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

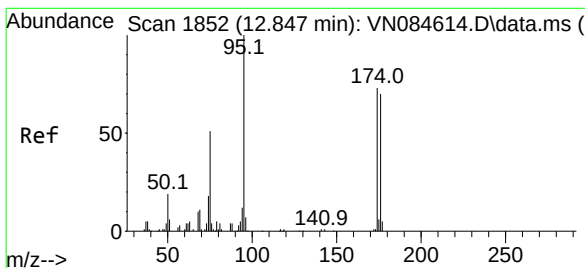
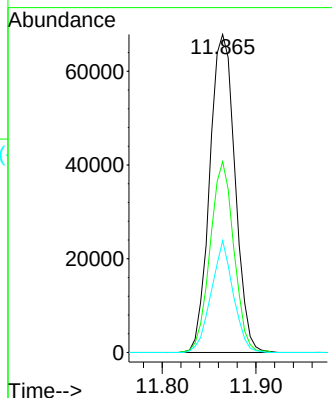
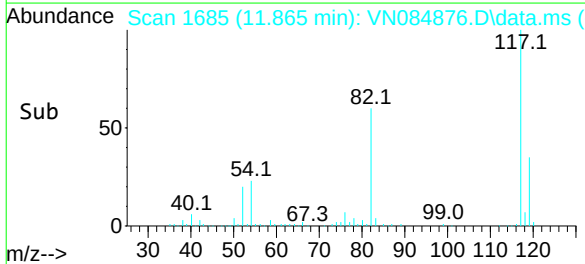
Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA



Tgt Ion: 117 Resp: 127289
Ion Ratio Lower Upper
117 100
82 56.3 45.5 68.3
119 30.7 25.3 37.9

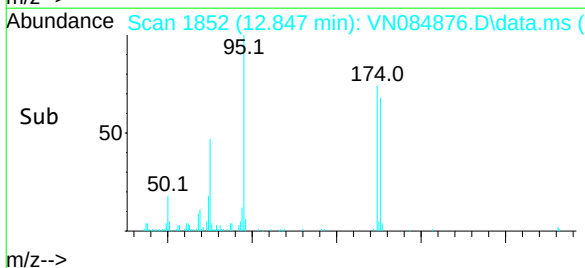
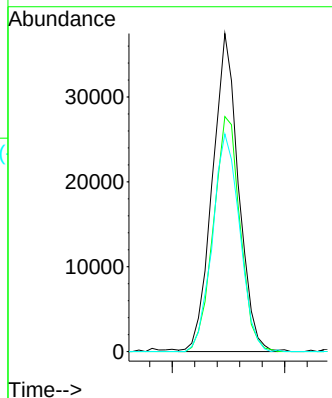
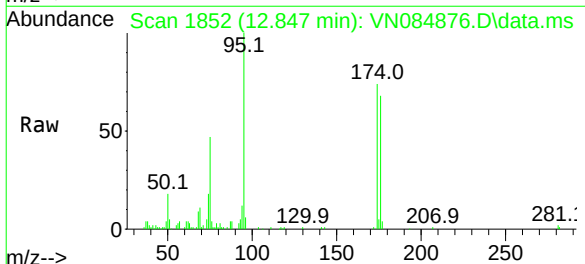
Manual Integrations
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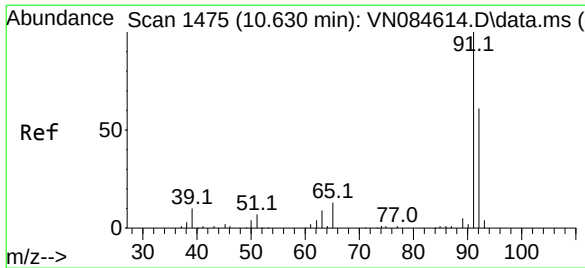
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#60
4-Bromofluorobenzene
Concen: 27.504 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion: 95 Resp: 60280
Ion Ratio Lower Upper
95 100
174 75.5 59.6 89.4
176 71.4 58.6 88.0





#62

Toluene

Concen: 11.140 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN084876.D

Acq: 15 Nov 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

241113075-01-VOA

Tgt Ion: 91 Resp: 80765

Ion Ratio Lower Upper

91 100

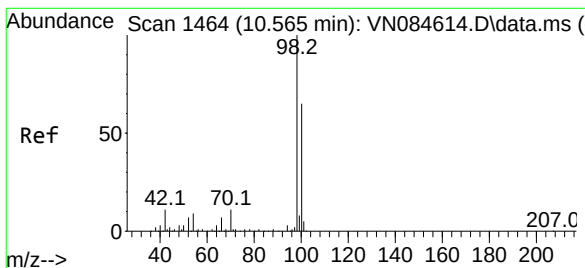
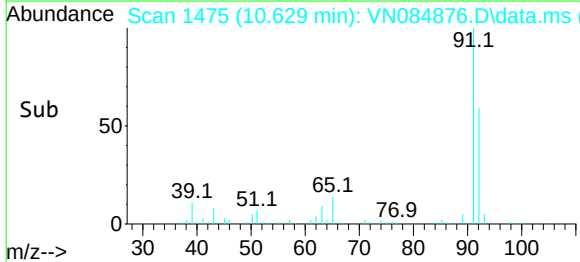
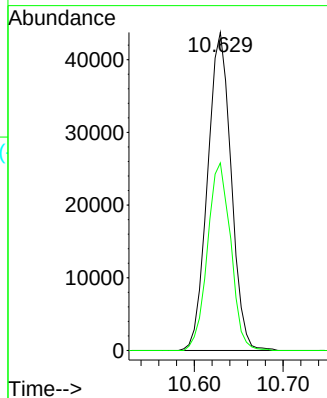
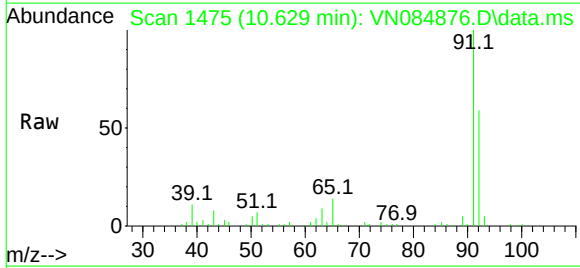
92 58.1 47.5 71.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/17/2024

Supervised By :Mahesh Dadoda 11/18/2024



#63

Toluene-d8

Concen: 26.743 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084876.D

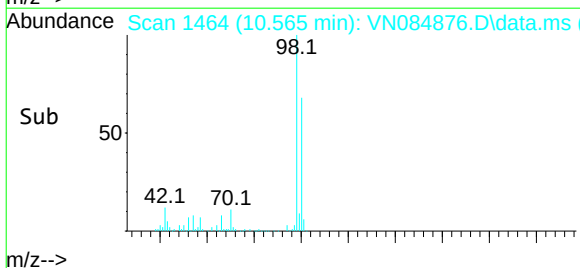
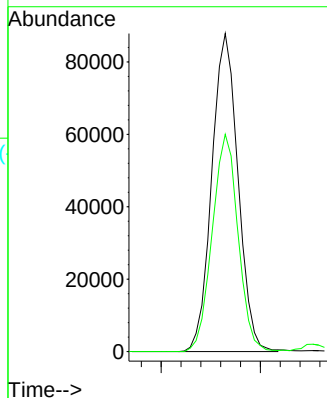
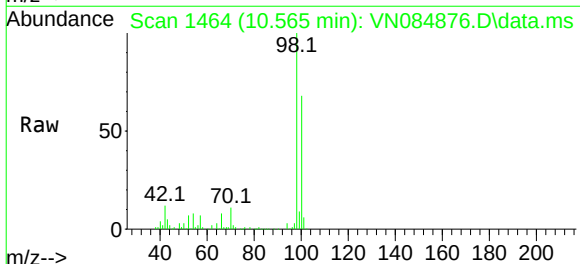
Acq: 15 Nov 2024 18:00

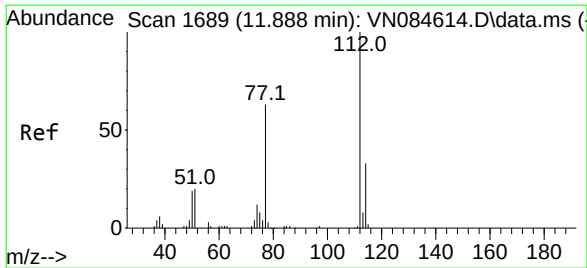
Tgt Ion: 98 Resp: 161151

Ion Ratio Lower Upper

98 100

100 67.3 52.2 78.2





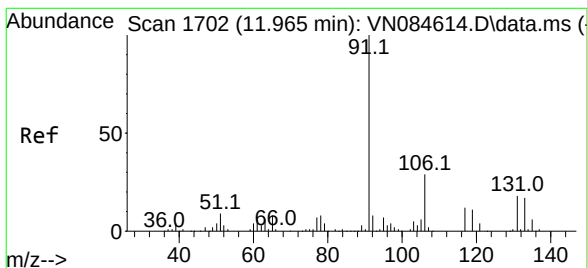
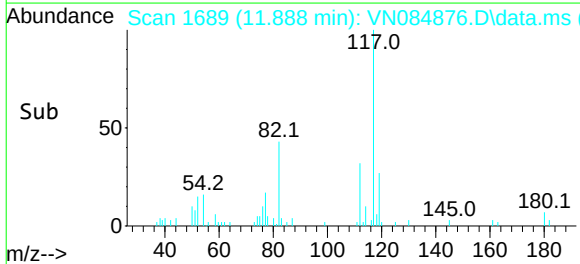
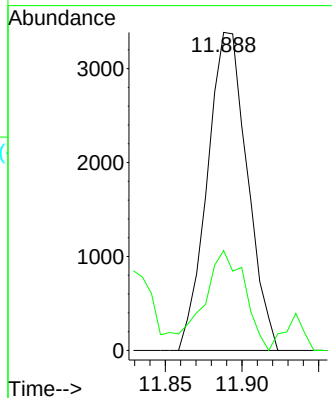
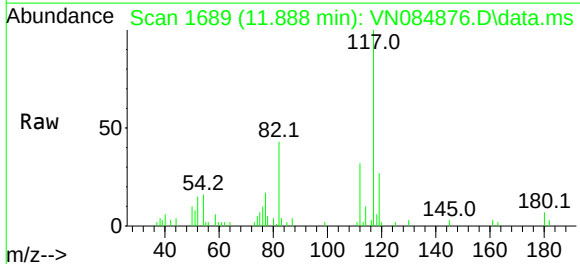
#64
Chlorobenzene
Concen: 1.401 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Tgt Ion: 112 Resp: 6131
Ion Ratio Lower Upper
112 100
114 26.2 26.2 39.4#

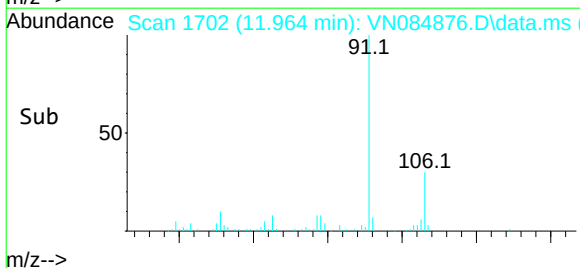
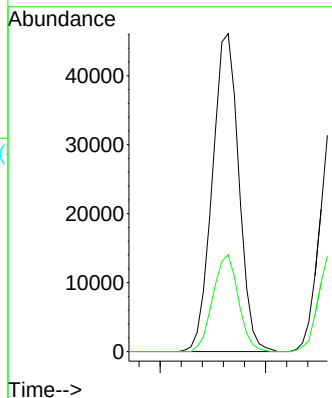
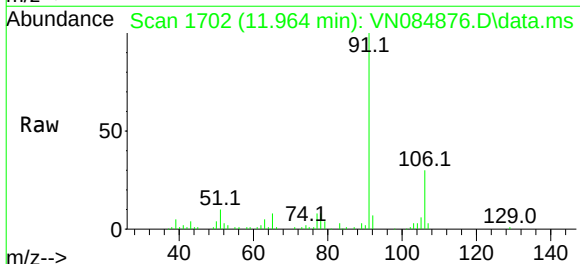
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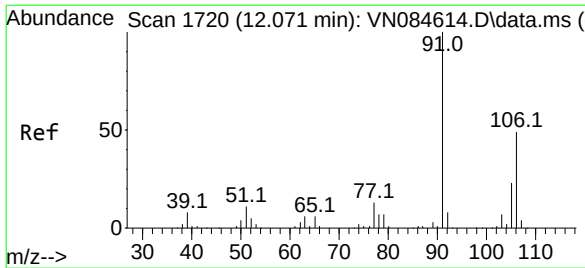
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#66
Ethyl Benzene
Concen: 10.561 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion: 91 Resp: 80469
Ion Ratio Lower Upper
91 100
106 30.4 22.9 34.3





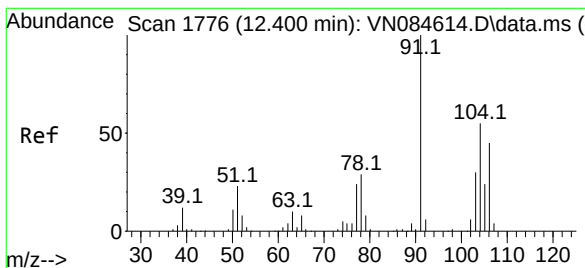
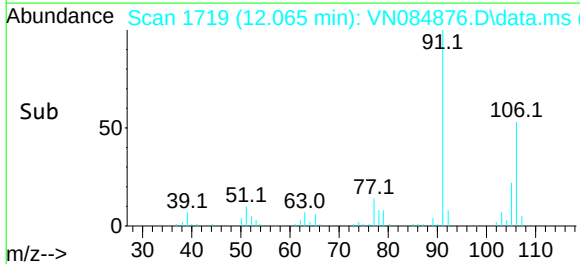
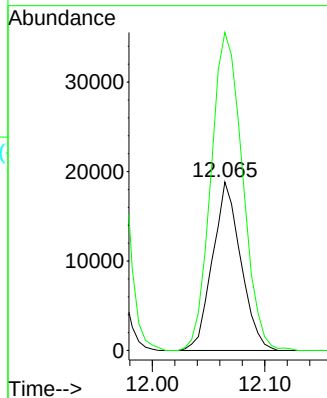
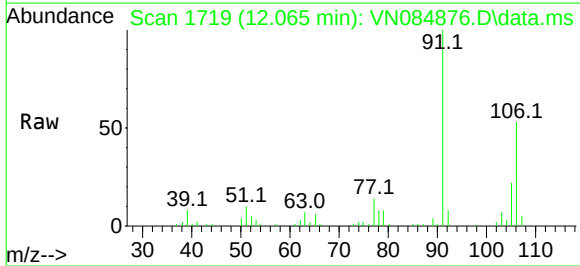
#67
m/p-Xylenes
Concen: 11.281 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Tgt Ion:106 Resp: 32906
Ion Ratio Lower Upper
106 100
91 209.6 168.1 252.1

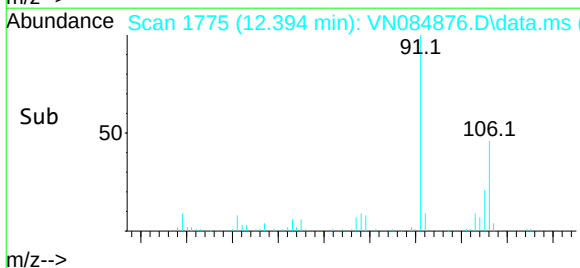
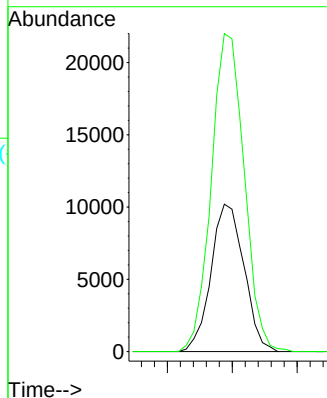
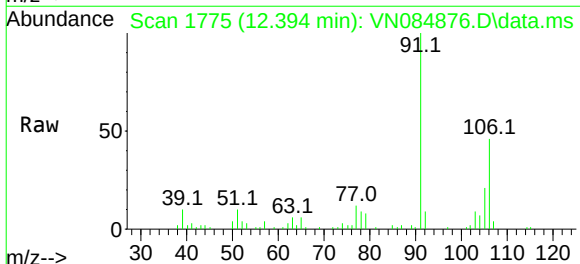
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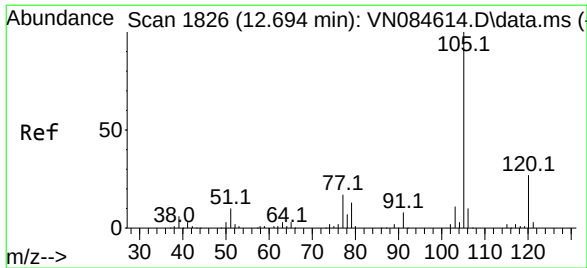
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#68
o-Xylene
Concen: 6.420 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion:106 Resp: 18066
Ion Ratio Lower Upper
106 100
91 214.4 107.7 322.9





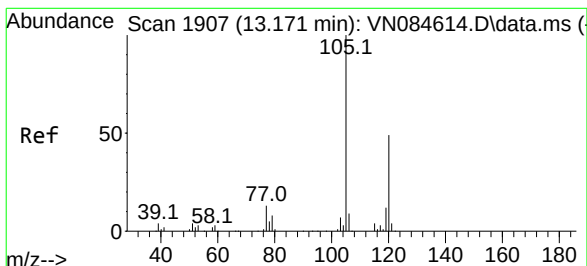
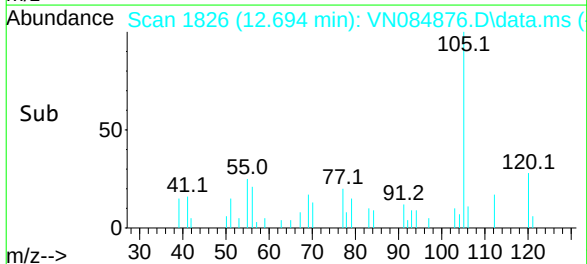
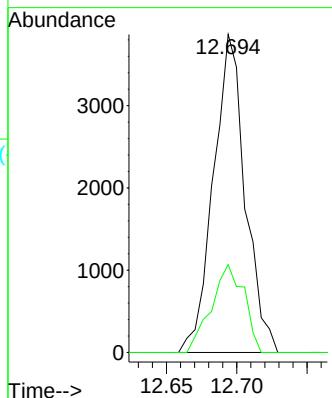
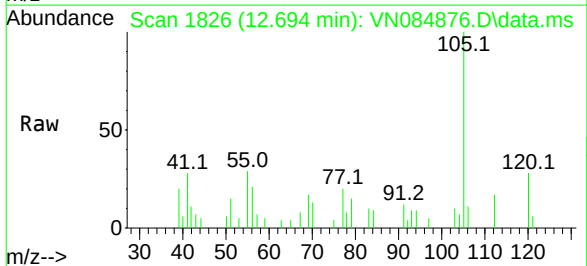
#70
Isopropylbenzene
Concen: 0.869 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Tgt Ion:105 Resp: 6074
Ion Ratio Lower Upper
105 100
120 28.4 18.7 34.7

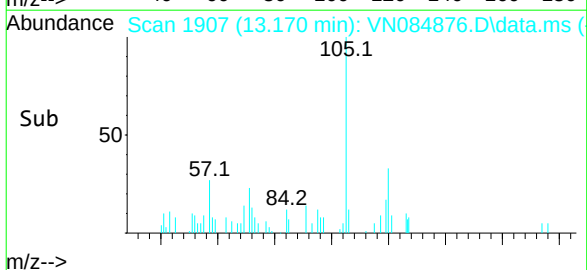
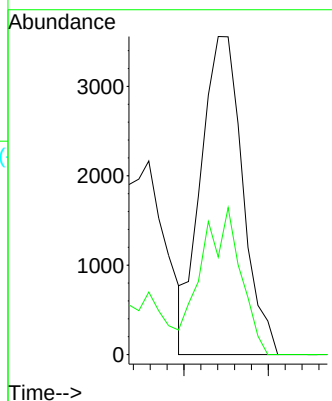
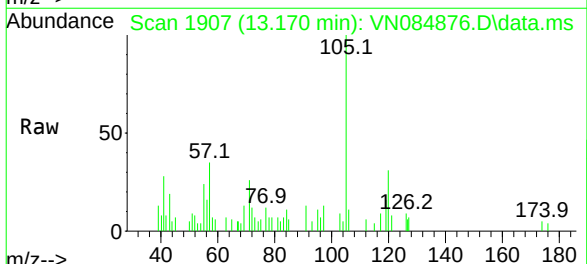
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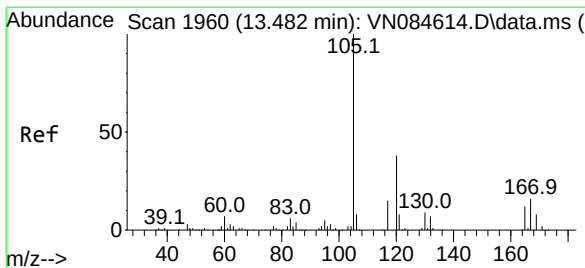
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#76
1,3,5-Trimethylbenzene
Concen: 1.023 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

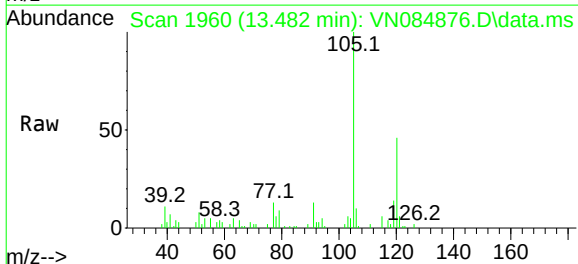
Tgt Ion:105 Resp: 6111
Ion Ratio Lower Upper
105 100
120 43.1 0.0 96.8





#80
1,2,4-Trimethylbenzene
Concen: 3.564 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

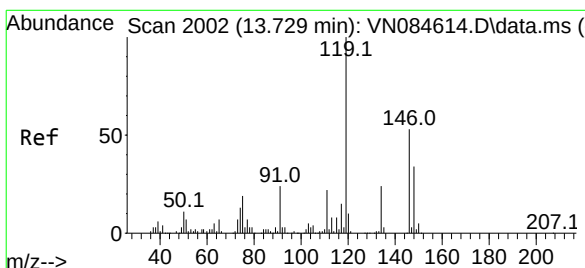
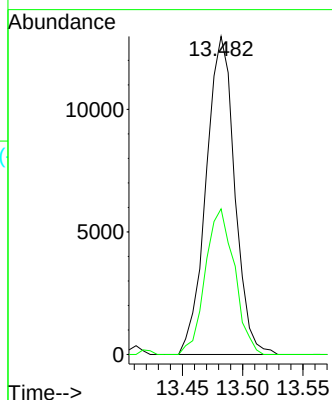
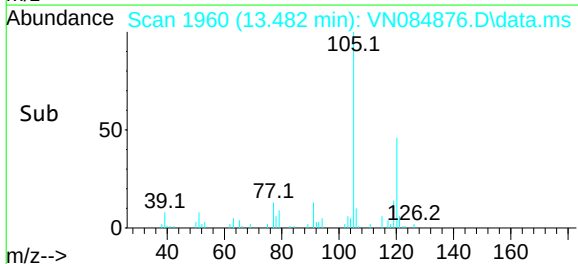
Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA



Tgt Ion:105 Resp: 21472
Ion Ratio Lower Upper
105 100
120 46.6 0.0 90.4

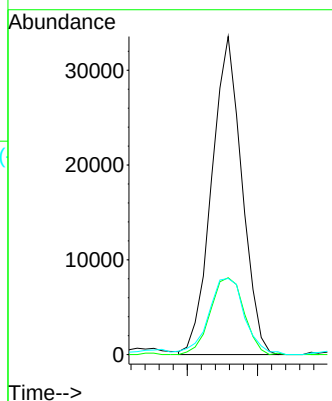
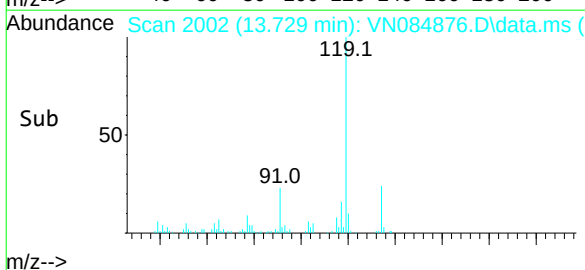
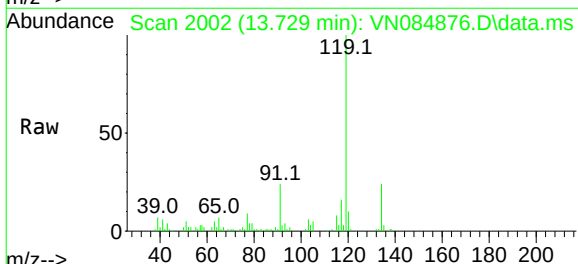
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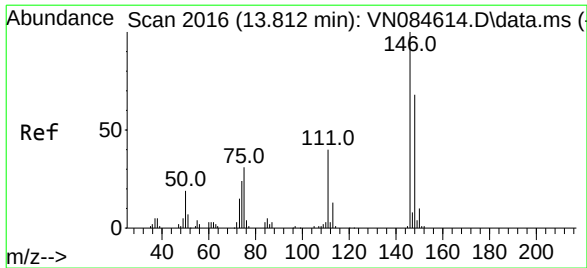
Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#82
p-Isopropyltoluene
Concen: 8.766 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion:119 Resp: 50130
Ion Ratio Lower Upper
119 100
134 26.8 0.0 51.4
91 28.5 0.0 50.4





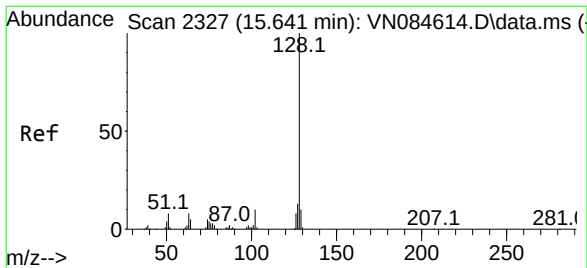
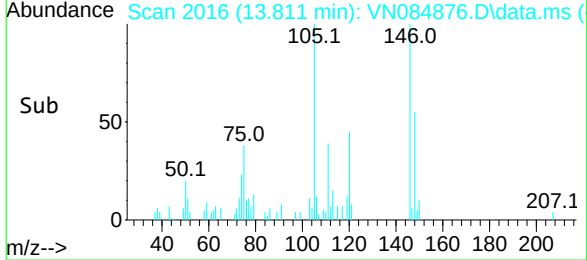
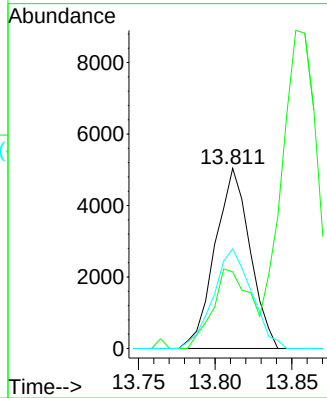
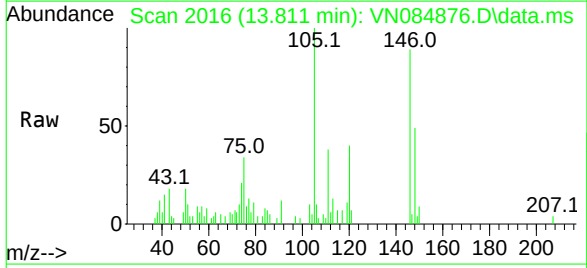
#84
1,4-Dichlorobenzene
Concen: 2.426 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
241113075-01-VOA

Tgt Ion:	146	Resp:	7992
Ion	Ratio	Lower	Upper
146	100		
111	47.4	20.2	60.5
148	60.6	32.6	98.0

Manual Integrations
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Reviewed By :John Carlone 11/17/2024
Supervised By :Mahesh Dadoda 11/18/2024



#91
Naphthalene
Concen: 24.238 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN084876.D
Acq: 15 Nov 2024 18:00

Tgt Ion:	128	Resp:	123830
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.5	8.6	12.8

