

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080990.D
 Acq On : 09 Feb 2024 15:33
 Operator : JC\MD
 Sample : P1415-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240207098-02-VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/12/2024
 Supervised By :Mahesh Dadoda 02/12/2024

Quant Time: Feb 10 02:03:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:52:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	85996	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	469026	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	408149	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	187020	28.942	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.467%		
60) 4-Bromofluorobenzene	12.853	95	174841	28.021	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.400%		
63) Toluene-d8	10.571	98	552637	30.172	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.567%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.977	74	7695m	2.373	ug/l	
15) Acetone	4.424	58	60975	120.029	ug/l	96
23) tert-Butyl Alcohol	5.524	59	4313644	5362.209	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	27331m	1.680	ug/l	
34) Benzene	8.612	78	45927	2.151	ug/l #	81
45) 1,4-Dioxane	9.700	88	7420	81.556	ug/l	88
58) 4-Methyl-2-Pentanone	10.441	43	24754	4.672	ug/l #	69
62) Toluene	10.635	91	24975	1.117	ug/l	93
64) Chlorobenzene	11.894	112	9787	0.715	ug/l	92
66) Ethyl Benzene	11.970	91	9490	0.404	ug/l #	88
67) m/p-Xylenes	12.076	106	7337	0.795	ug/l	98
68) o-Xylene	12.406	106	20274	2.241	ug/l	92
70) Isopropylbenzene	12.700	105	11229	0.509	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	8060	0.447	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	16346	1.651	ug/l	98

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

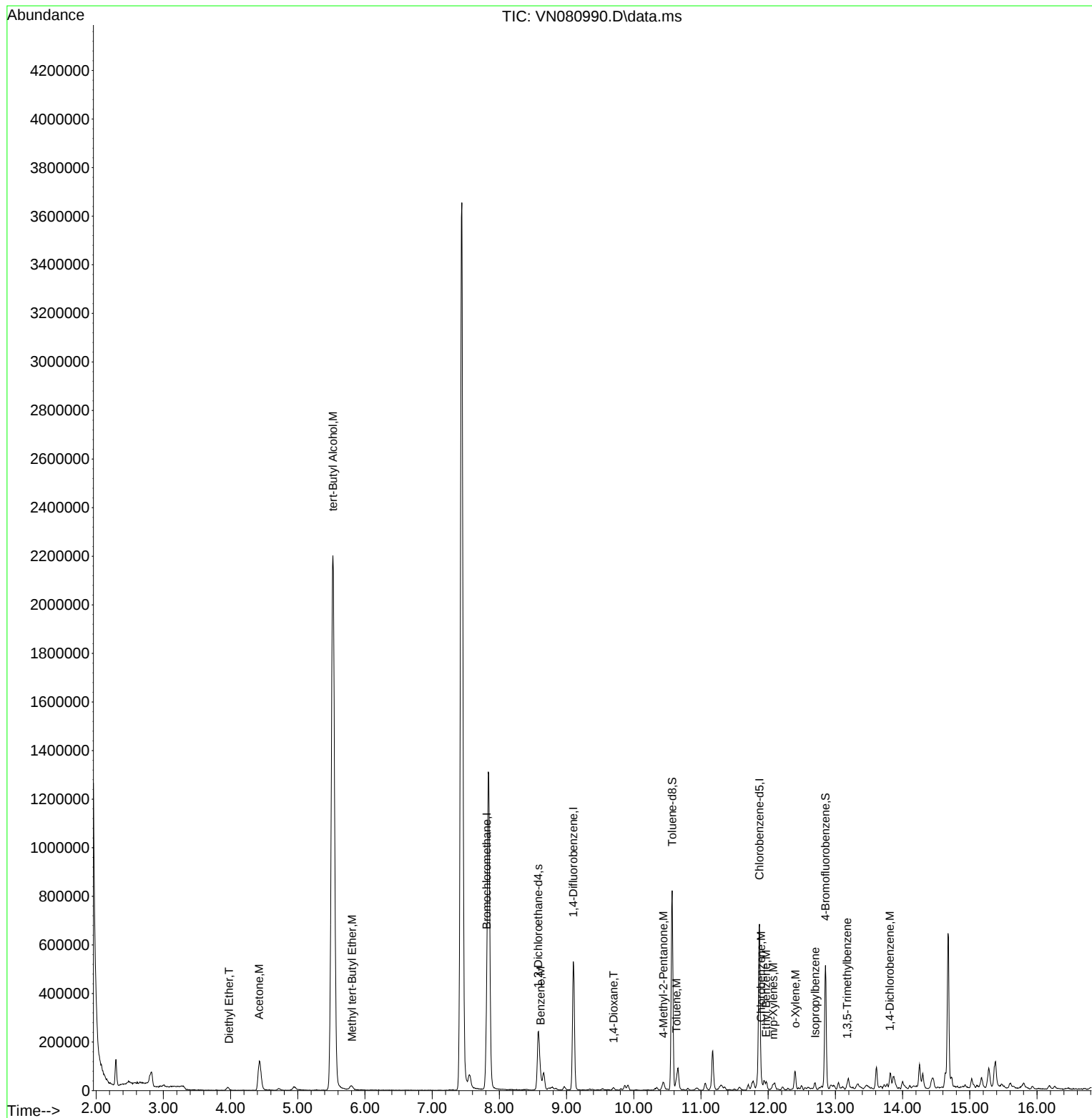
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
Data File : VN080990.D
Acq On : 09 Feb 2024 15:33
Operator : JC\MD
Sample : P1415-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

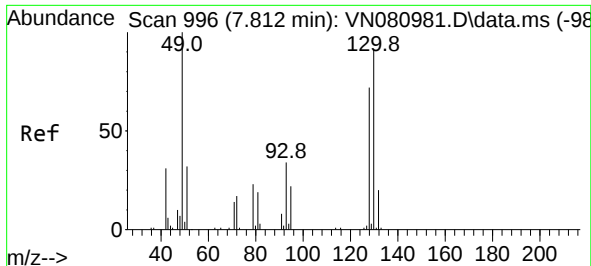
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

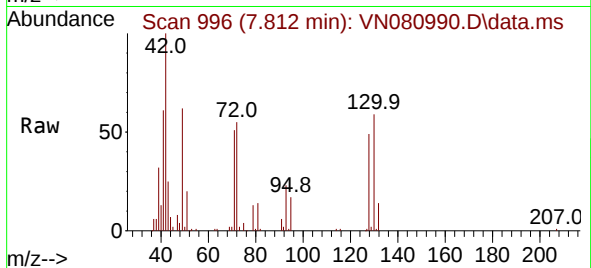
Quant Time: Feb 10 02:03:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 10 01:52:21 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

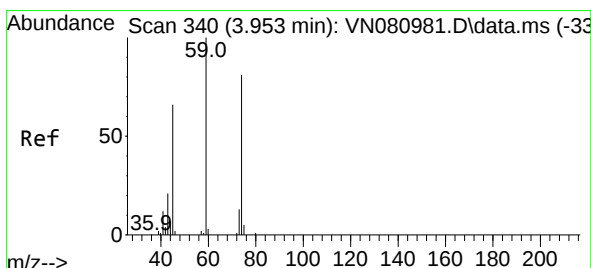
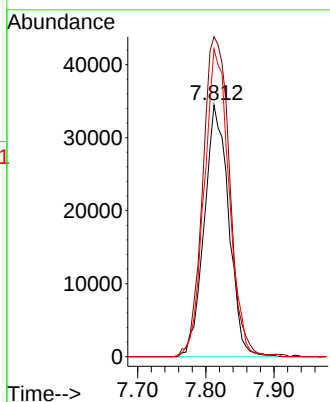
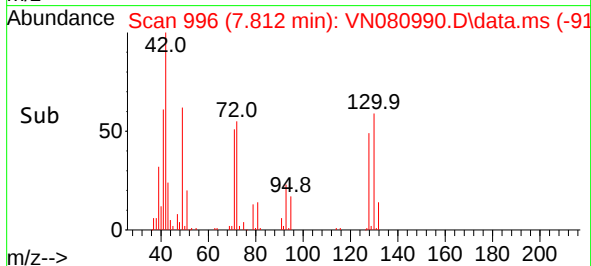
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA



Tgt Ion:128 Resp: 85990
Ion Ratio Lower Upper
128 100
49 138.8 0.0 403.7
130 124.4 0.0 323.3

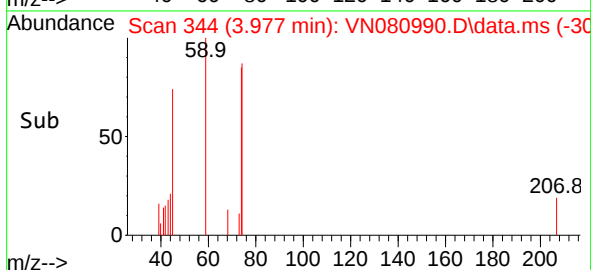
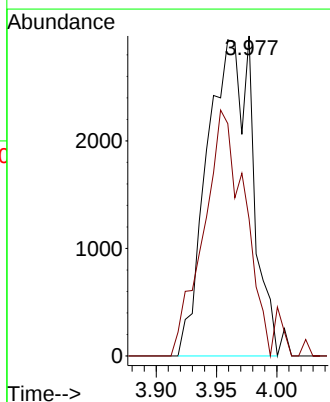
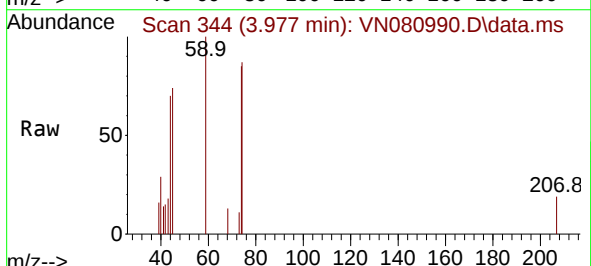
Manual Integrations
APPROVED

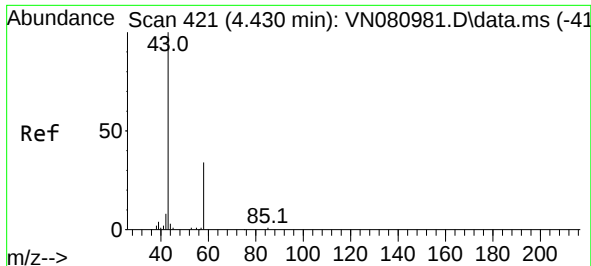
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#8
Diethyl Ether
Concen: 2.373 ug/l m
RT: 3.977 min Scan# 344
Delta R.T. 0.023 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

Tgt Ion: 74 Resp: 7695
Ion Ratio Lower Upper
74 100
45 70.4 16.4 147.4





#15

Acetone

Concen: 120.029 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN080990.D

Acq: 09 Feb 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

240207098-02-VOA

Tgt Ion: 58 Resp: 60975

Ion Ratio Lower Upper

58 100

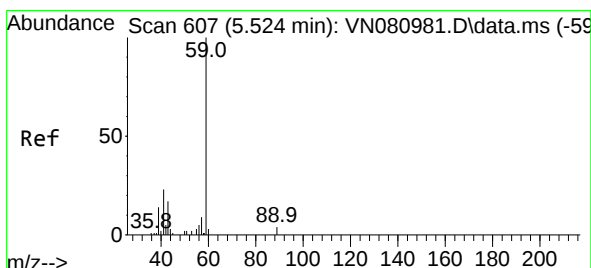
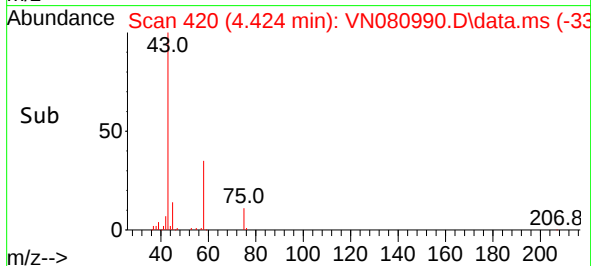
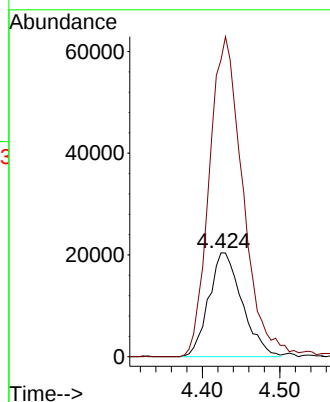
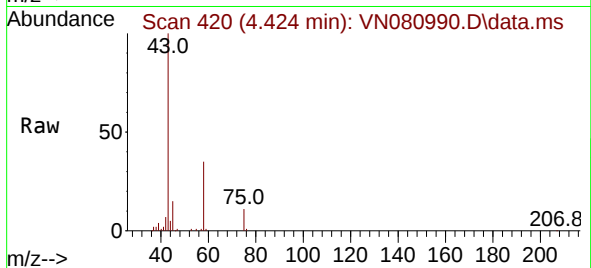
43 285.6 223.1 334.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#23

tert-Butyl Alcohol

Concen: 5362.209 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.000 min

Lab File: VN080990.D

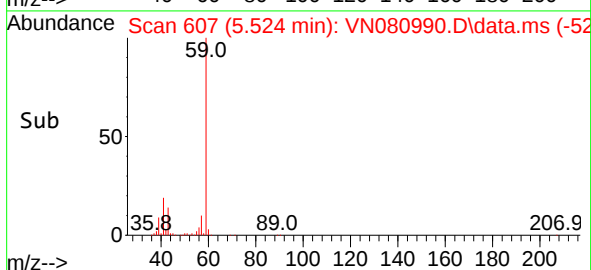
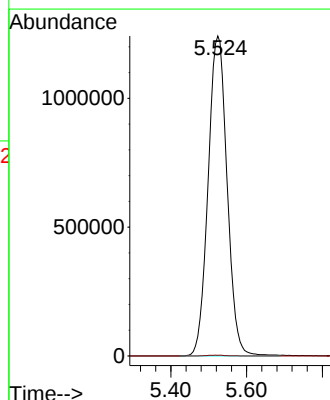
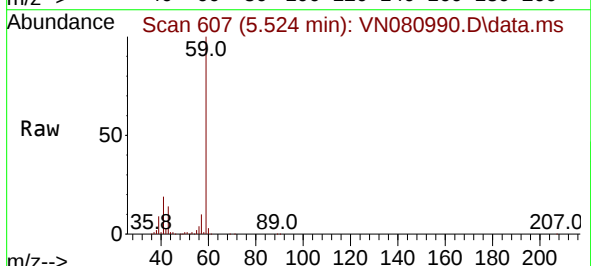
Acq: 09 Feb 2024 15:33

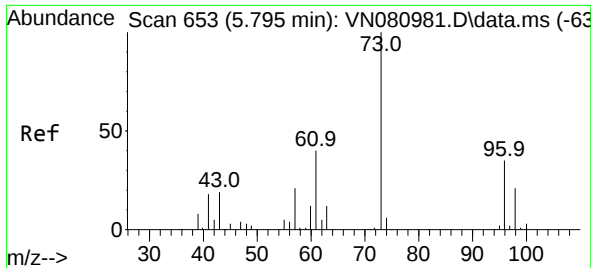
Tgt Ion: 59 Resp: 4313644

Ion Ratio Lower Upper

59 100

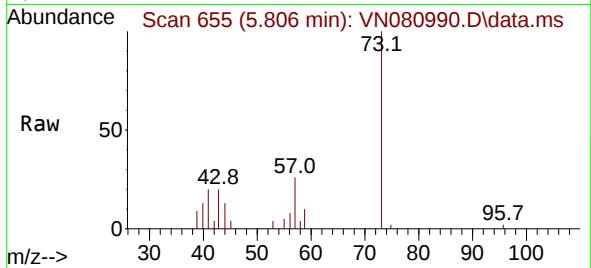
52 0.1 0.0 0.0#





#24
Methyl tert-Butyl Ether
Concen: 1.680 ug/l m
RT: 5.806 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

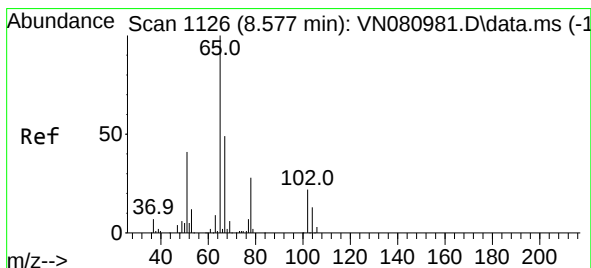
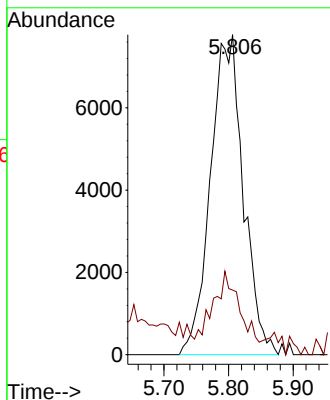
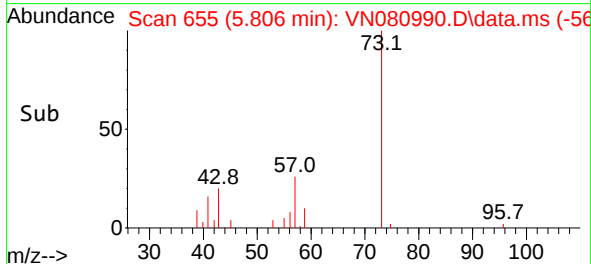
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA



Tgt Ion: 73 Resp: 2733
Ion Ratio Lower Upper
73 100
43 1.5 13.4 20.2

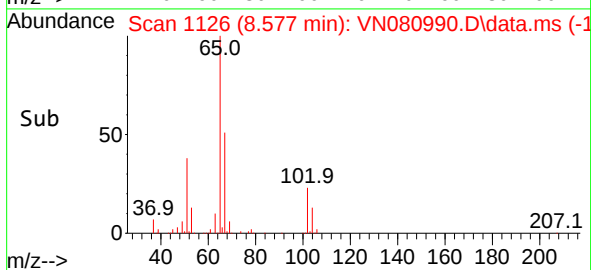
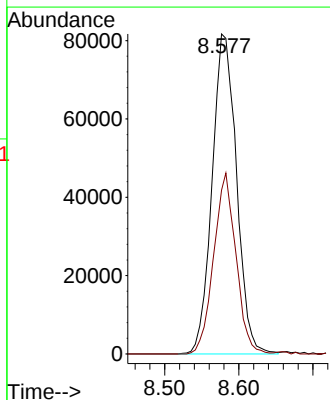
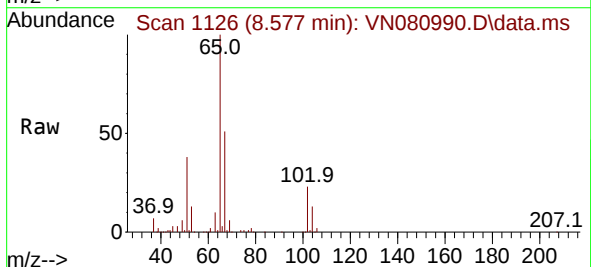
Manual Integrations
APPROVED

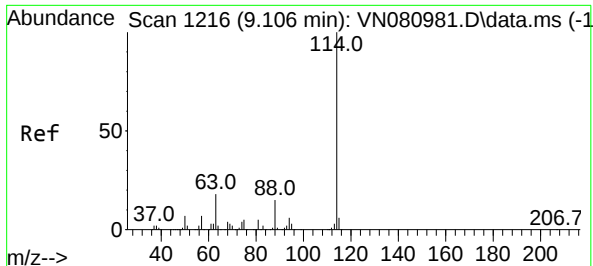
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#27
1,2-Dichloroethane-d4
Concen: 28.942 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

Tgt Ion: 65 Resp: 187020
Ion Ratio Lower Upper
65 100
67 51.5 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1114

Delta R.T. -0.006 min

Lab File: VN080990.D

Acq: 09 Feb 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

240207098-02-VOA

Tgt Ion:114 Resp: 469020

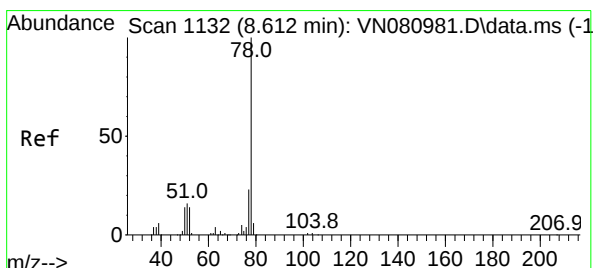
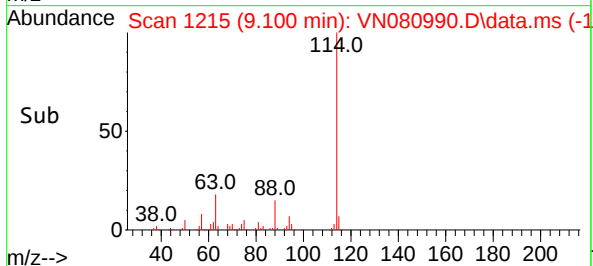
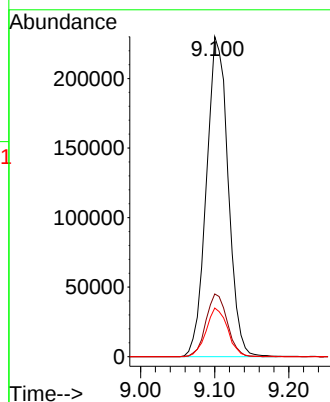
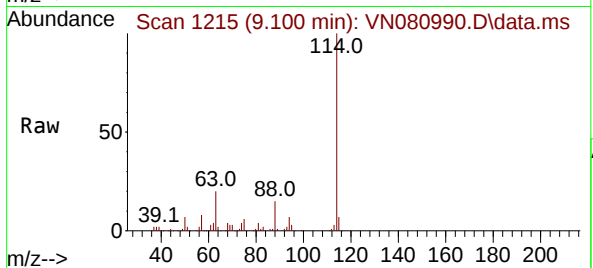
Ion	Ratio	Lower	Upper
114	100		
63	19.2	15.9	23.9
88	15.1	12.7	19.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#34

Benzene

Concen: 2.151 ug/l

RT: 8.612 min Scan# 1132

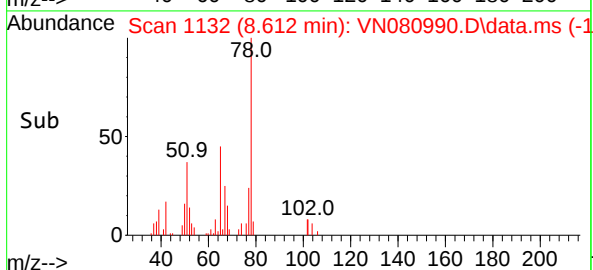
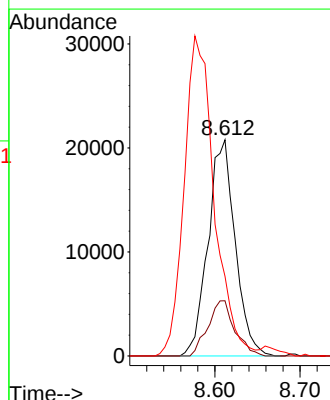
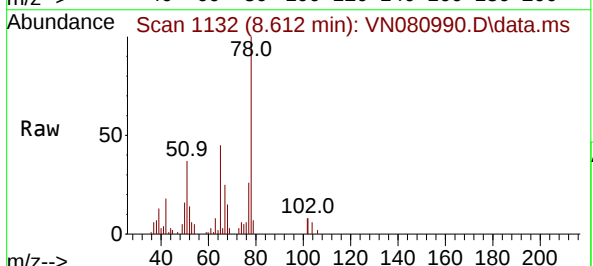
Delta R.T. -0.000 min

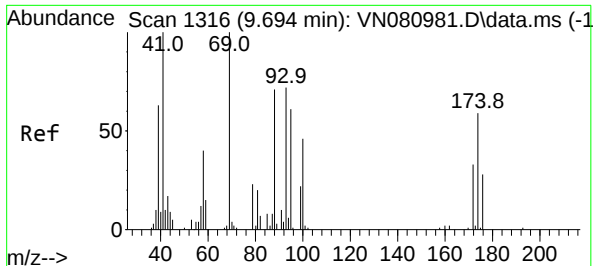
Lab File: VN080990.D

Acq: 09 Feb 2024 15:33

Tgt Ion: 78 Resp: 45927

Ion	Ratio	Lower	Upper
78	100		
77	25.5	19.2	28.8
51	34.7	13.3	19.9





#45

1,4-Dioxane

Concen: 81.556 ug/l

RT: 9.700 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN080990.D

Acq: 09 Feb 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

240207098-02-VOA

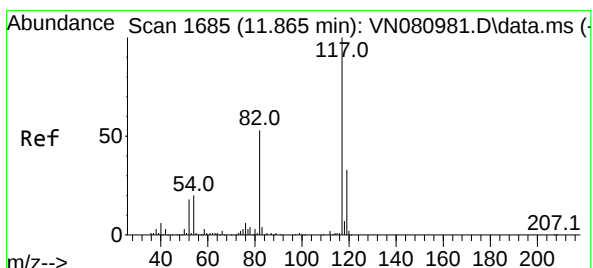
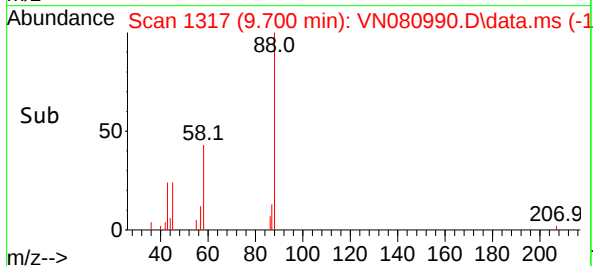
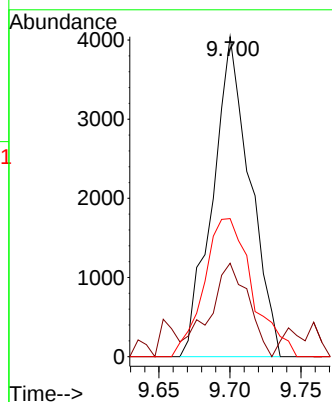
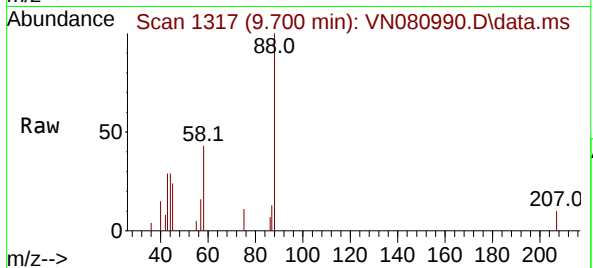
Tgt Ion:	88	Resp:	7420
Ion	Ratio	Lower	Upper
88	100		
43	24.7	19.8	29.6
58	55.7	55.4	83.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

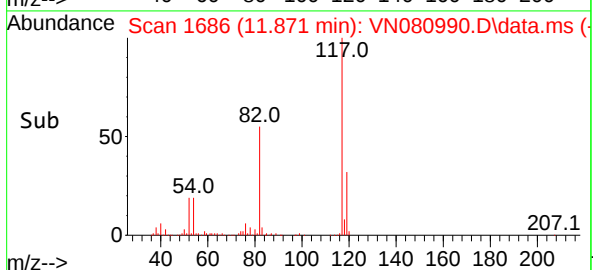
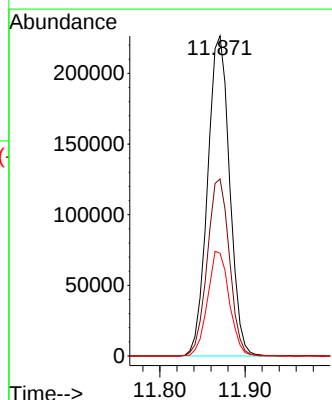
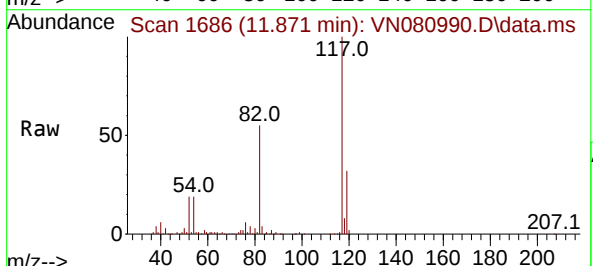
RT: 11.871 min Scan# 1686

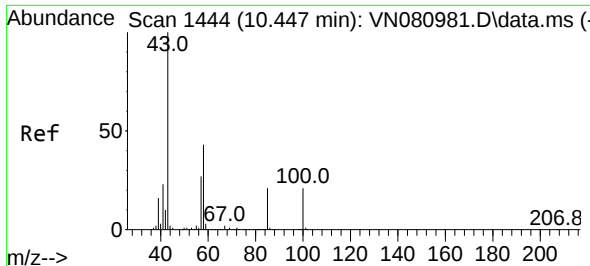
Delta R.T. 0.006 min

Lab File: VN080990.D

Acq: 09 Feb 2024 15:33

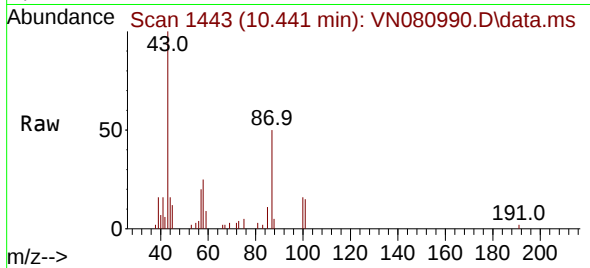
Tgt Ion:	117	Resp:	408149
Ion	Ratio	Lower	Upper
117	100		
82	55.6	46.6	69.8
119	32.1	25.4	38.2





#58
4-Methyl-2-Pentanone
Concen: 4.672 ug/l
RT: 10.441 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

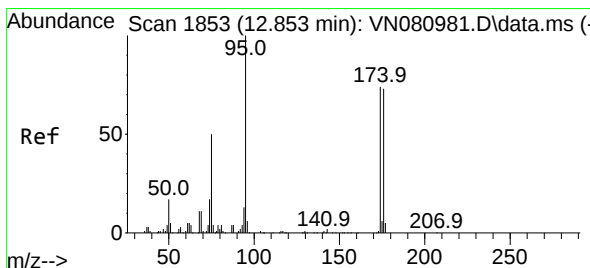
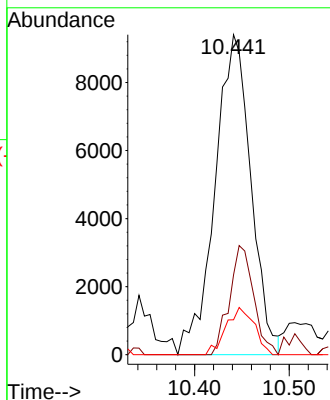
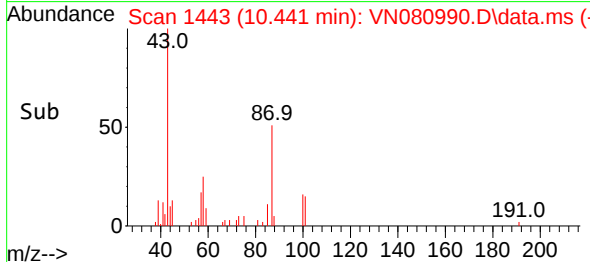
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA



Tgt Ion: 43 Resp: 24754
Ion Ratio Lower Upper
43 100
58 23.0 36.5 54.7
85 11.6 19.5 29.3

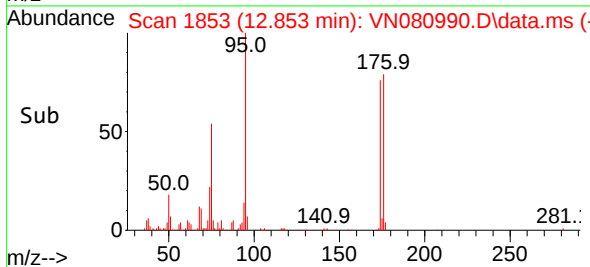
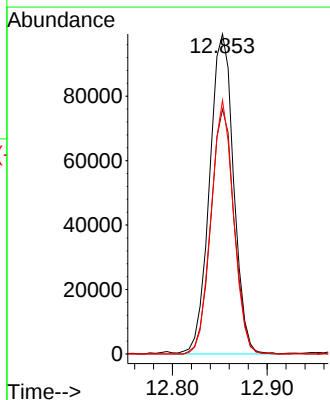
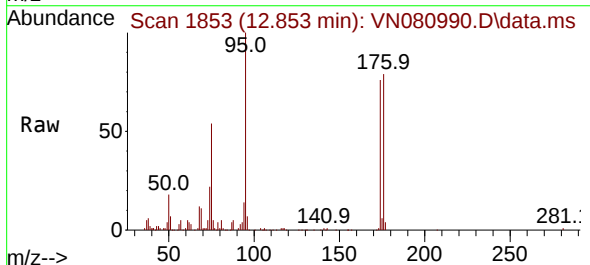
Manual Integrations
APPROVED

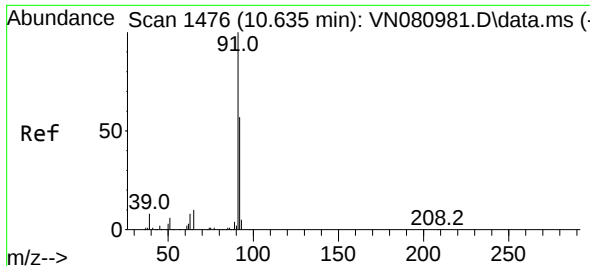
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#60
4-Bromofluorobenzene
Concen: 28.021 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

Tgt Ion: 95 Resp: 174841
Ion Ratio Lower Upper
95 100
174 74.1 60.5 90.7
176 73.9 57.8 86.6





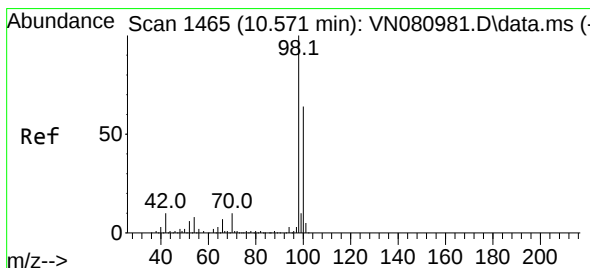
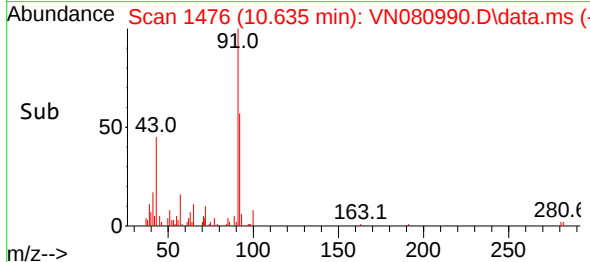
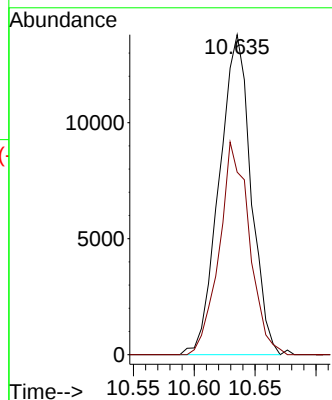
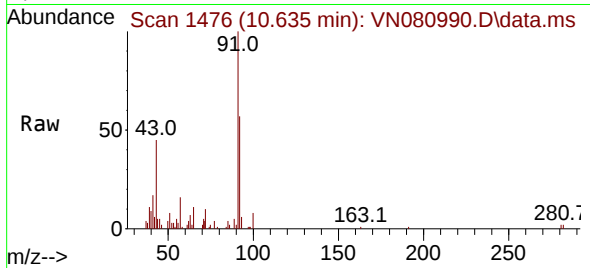
#62
Toluene
Concen: 1.117 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA

Tgt Ion: 91 Resp: 24975
Ion Ratio Lower Upper
91 100
92 63.0 46.5 69.7

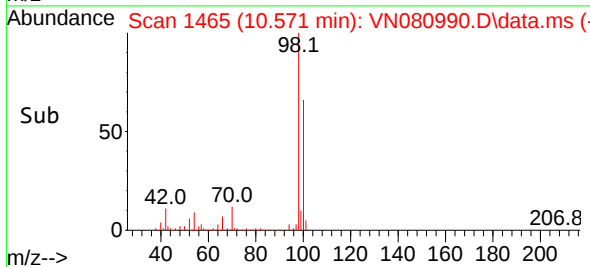
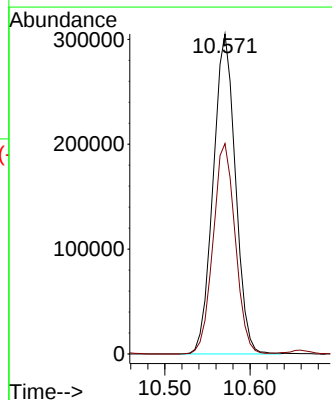
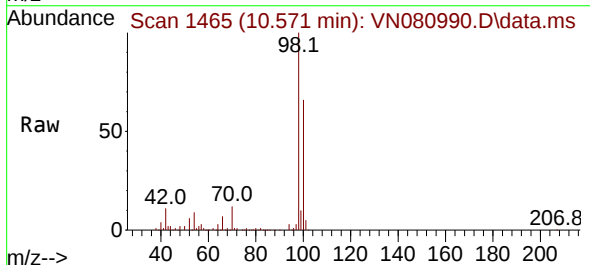
Manual Integrations
APPROVED

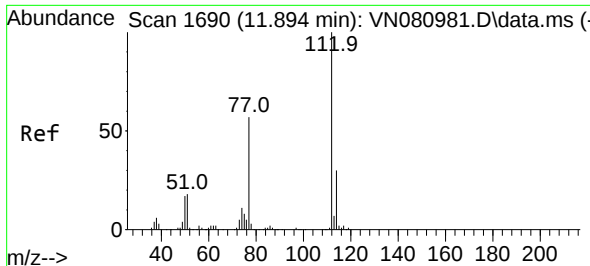
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#63
Toluene-d8
Concen: 30.172 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

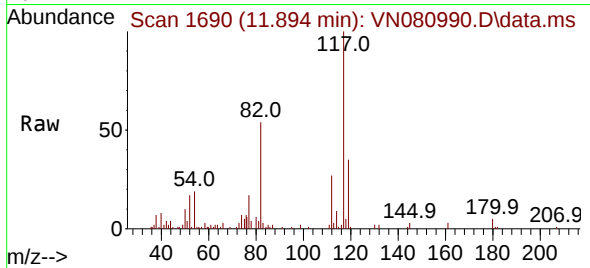
Tgt Ion: 98 Resp: 552637
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1





#64
Chlorobenzene
Concen: 0.715 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

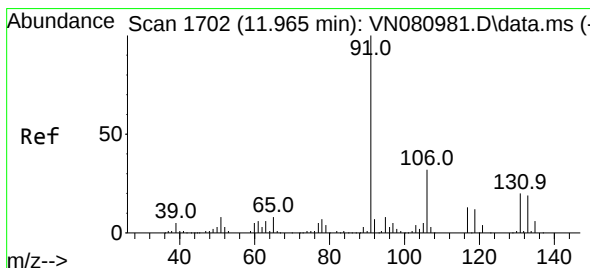
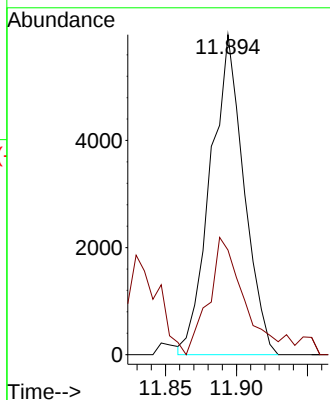
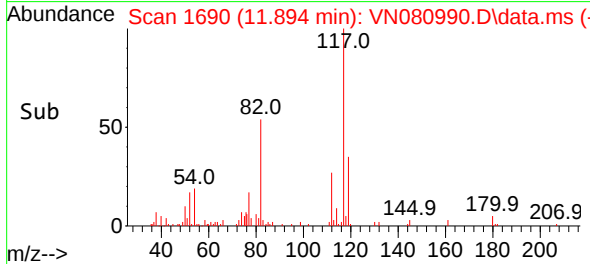
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA



Tgt Ion:112 Resp: 978
Ion Ratio Lower Upper
112 100
114 28.8 26.6 39.8

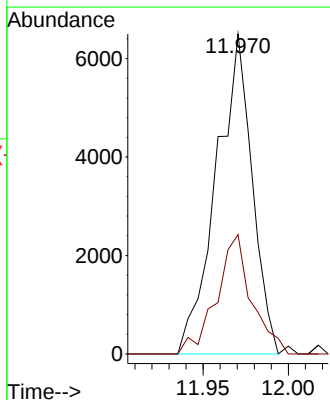
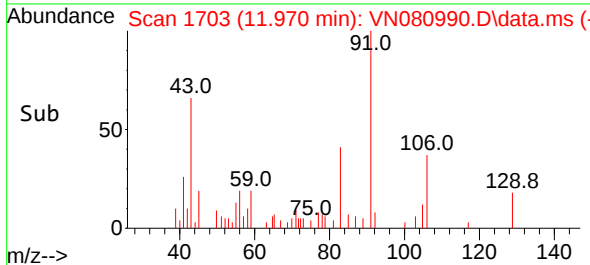
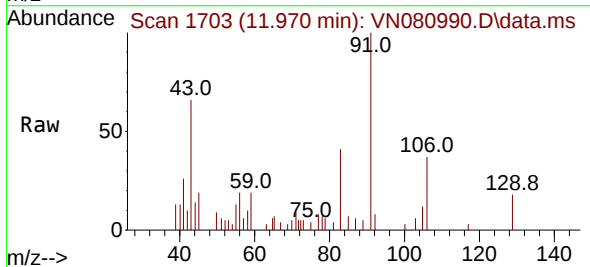
Manual Integrations
APPROVED

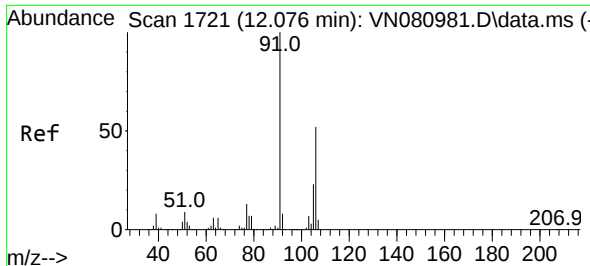
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#66
Ethyl Benzene
Concen: 0.404 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.006 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

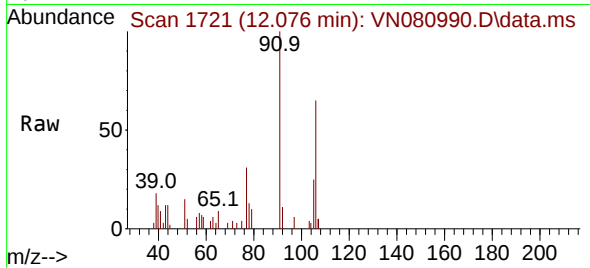
Tgt Ion: 91 Resp: 9490
Ion Ratio Lower Upper
91 100
106 37.3 24.4 36.6#





#67
m/p-Xylenes
Concen: 0.795 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

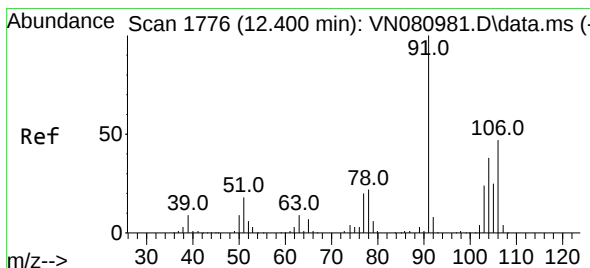
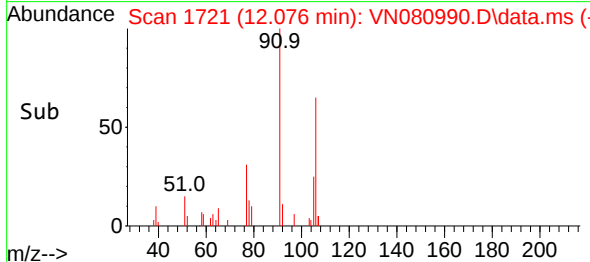
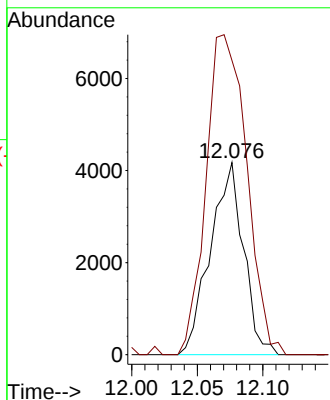
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA



Tgt Ion:106 Resp: 733
Ion Ratio Lower Upper
106 100
91 204.5 166.6 249.8

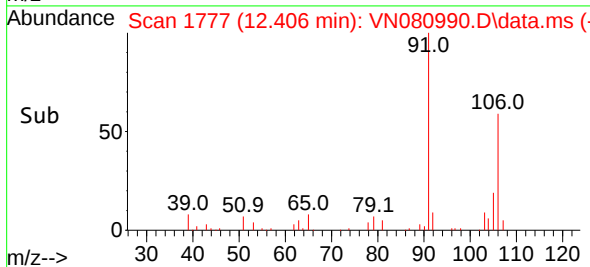
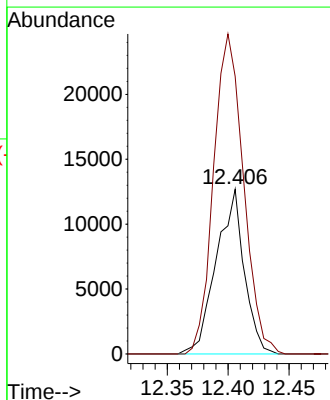
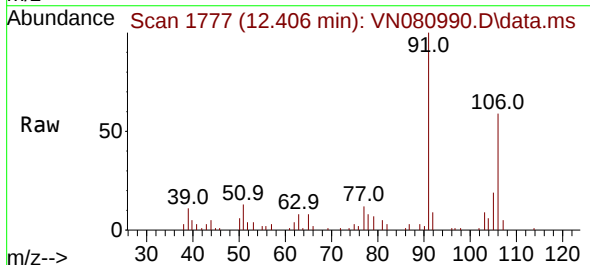
Manual Integrations
APPROVED

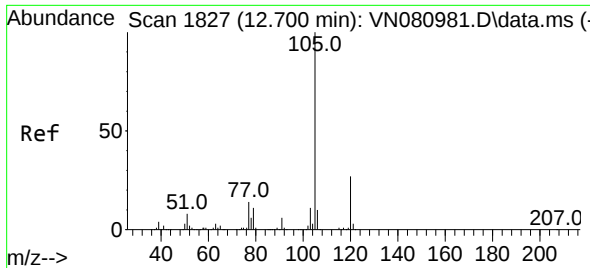
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#68
o-Xylene
Concen: 2.241 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

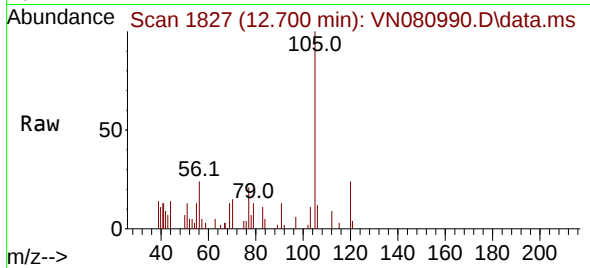
Tgt Ion:106 Resp: 20274
Ion Ratio Lower Upper
106 100
91 207.6 110.0 330.0





#70
Isopropylbenzene
Concen: 0.509 ug/l
RT: 12.700 min Scan# 11229
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33

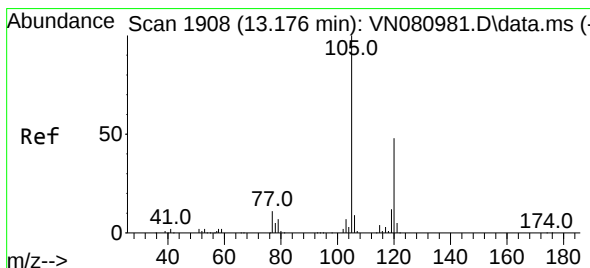
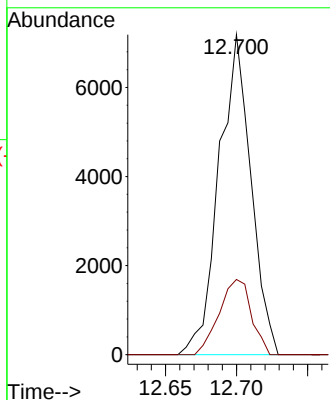
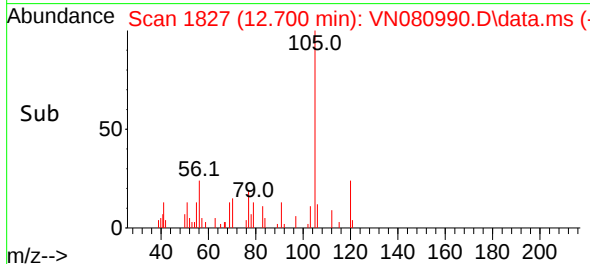
Instrument :
MSVOA_N
ClientSampleId :
240207098-02-VOA



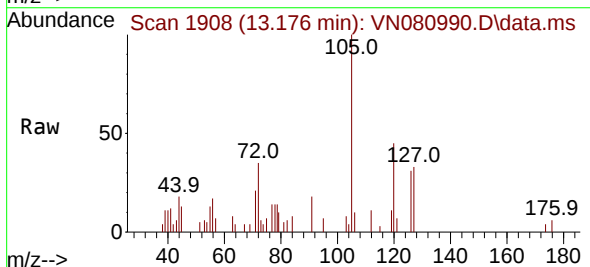
Tgt Ion:105 Resp: 11229
Ion Ratio Lower Upper
105 100
120 23.7 17.8 33.1

Manual Integrations
APPROVED

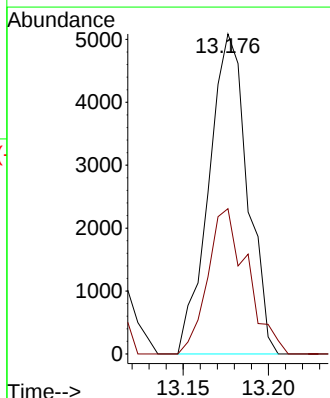
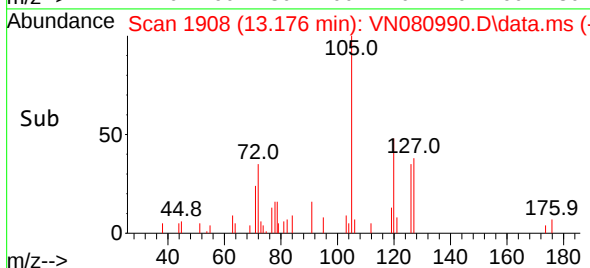
Reviewed By :John Carlone 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

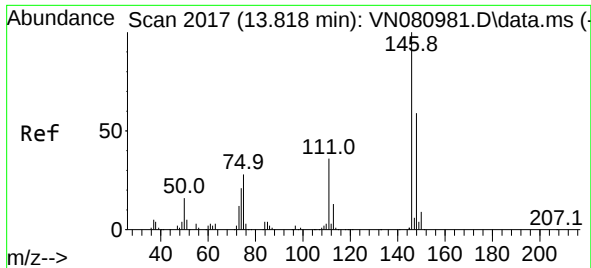


#76
1,3,5-Trimethylbenzene
Concen: 0.447 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VN080990.D
Acq: 09 Feb 2024 15:33



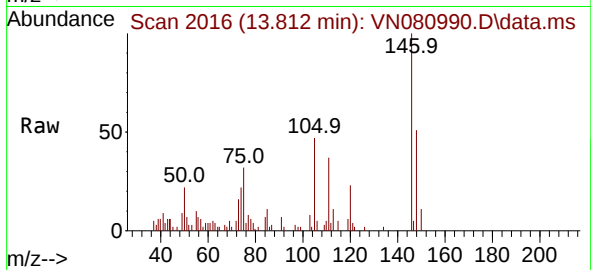
Tgt Ion:105 Resp: 8060
Ion Ratio Lower Upper
105 100
120 46.4 0.0 95.8





#84
 1,4-Dichlorobenzene
 Concen: 1.651 ug/l
 RT: 13.812 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN080990.D
 Acq: 09 Feb 2024 15:33

Instrument :
 MSVOA_N
 ClientSampleId :
 240207098-02-VOA



Tgt Ion:146 Resp: 16340
 Ion Ratio Lower Upper
 146 100
 111 42.8 21.3 63.9
 148 60.8 31.9 95.5

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/12/2024
 Supervised By :Mahesh Dadoda 02/12/2024

