

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086989.D
 Acq On : 12 Jun 2025 19:41
 Operator : JC\MD
 Sample : Q2268-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	198700	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	383576	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	340087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	149213	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	135252	50.840	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.680%			
35) Dibromofluoromethane	8.177	113	116076	51.064	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.120%			
50) Toluene-d8	10.571	98	467889	51.994	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.980%			
62) 4-Bromofluorobenzene	12.847	95	157381	47.073	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.140%			
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.548	59	7100	9.836	ug/l #	73
25) 2-Butanone	7.506	43	15515	6.766	ug/l	95
31) Cyclohexane	8.265	56	102271	23.702	ug/l #	96
39) Methylcyclohexane	9.606	83	140892	30.360	ug/l	96
40) Benzene	8.618	78	5925137	534.934	ug/l	99
52) Toluene	10.635	92	1774259	262.112	ug/l	99
67) Ethyl Benzene	11.965	91	6902127	534.225	ug/l	99
68) m/p-Xylenes	12.071	106	10625188	2148.355	ug/l	87
69) o-Xylene	12.400	106	4005333	845.591	ug/l	96
73) Isopropylbenzene	12.694	105	280669	25.820	ug/l	99
78) n-propylbenzene	13.035	91	396408	30.008	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	935009	104.183	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	4560220	506.717	ug/l	99
85) sec-Butylbenzene	13.612	105	20575m	1.725	ug/l	
86) p-Isopropyltoluene	13.729	119	19537	1.981	ug/l #	78

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

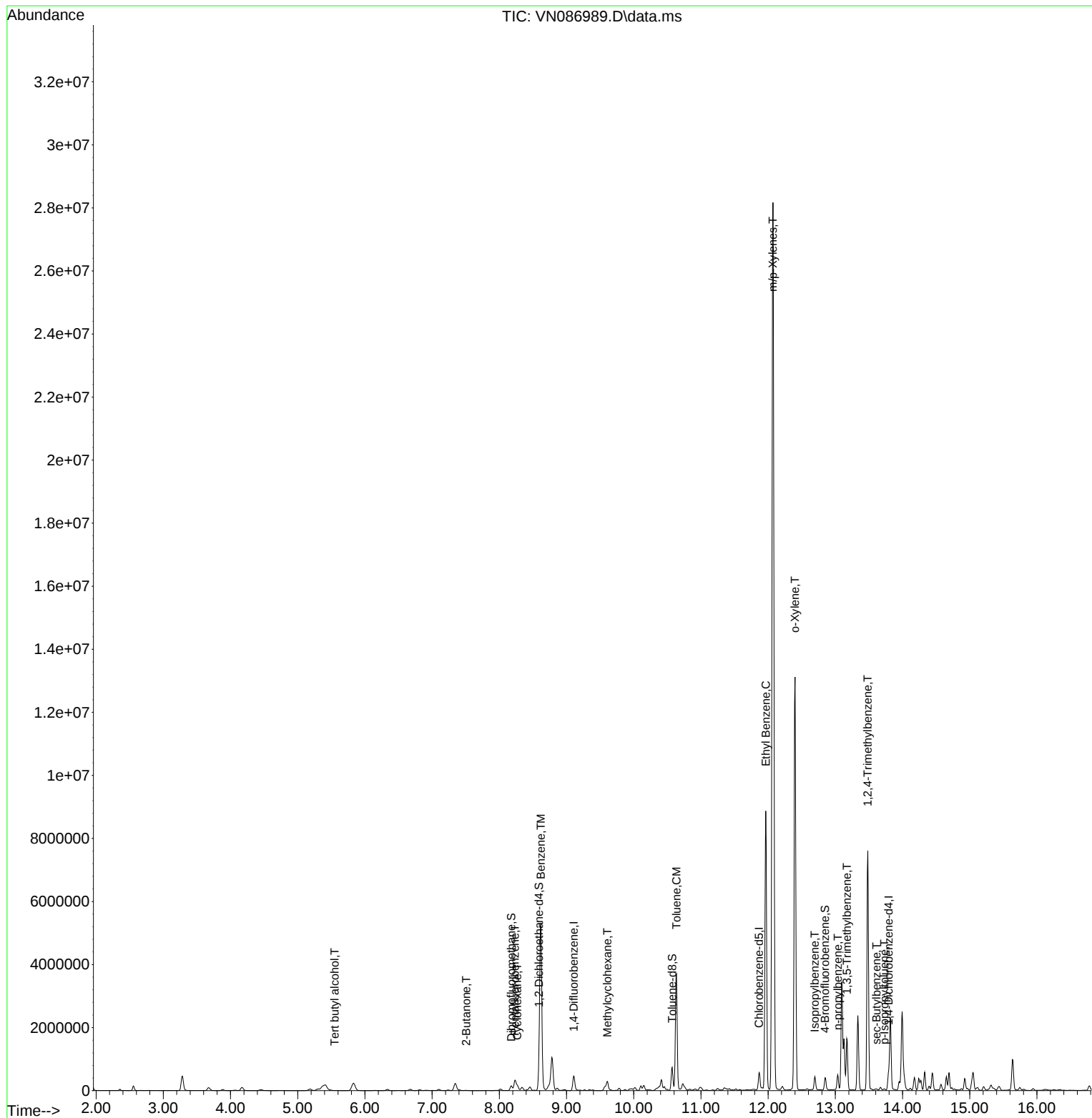
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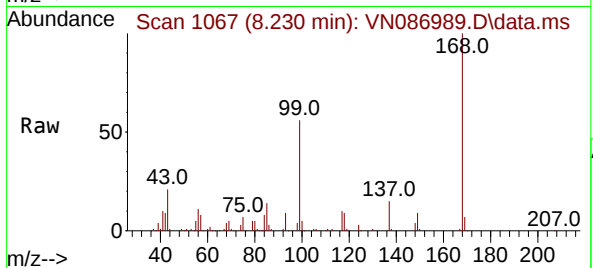
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

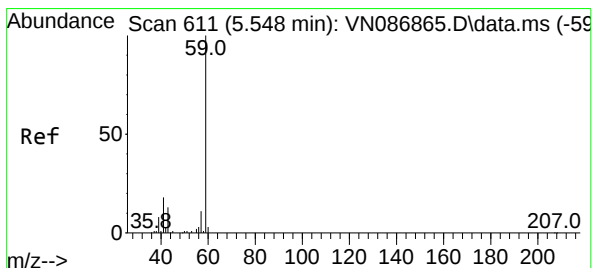
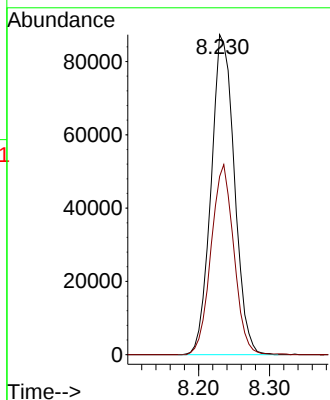
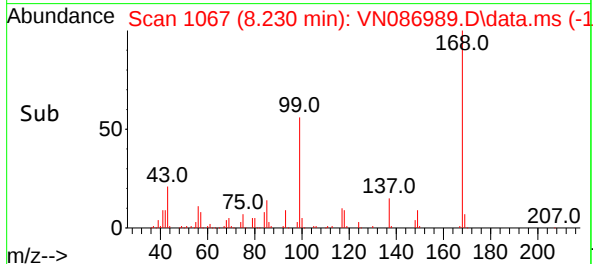
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion:168 Resp: 198700
Ion Ratio Lower Upper
168 100
99 55.7 49.1 73.7

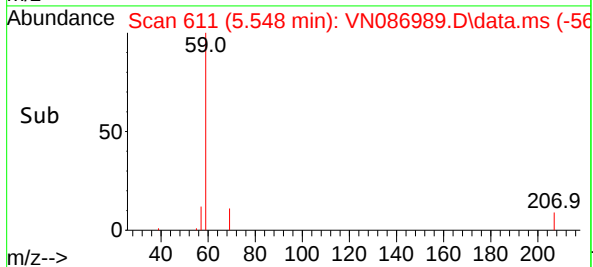
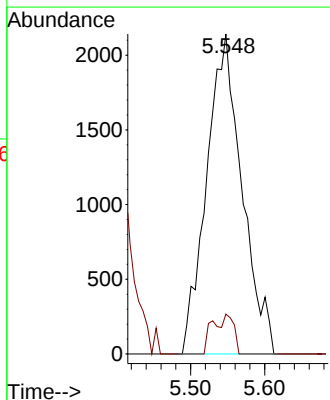
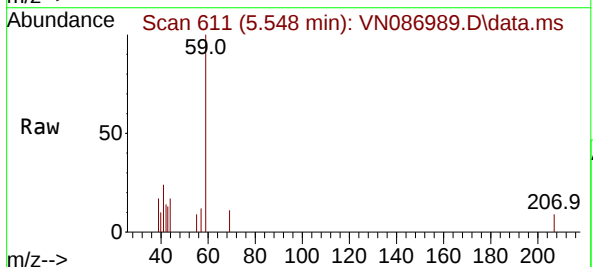
Manual Integrations
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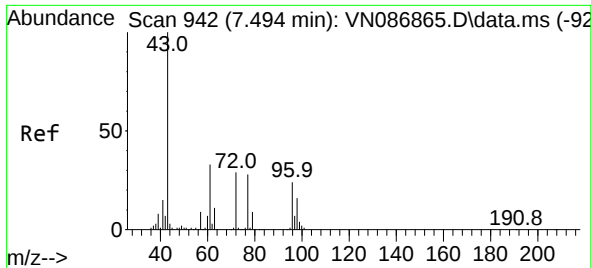
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#11
Tert butyl alcohol
Concen: 9.836 ug/l
RT: 5.548 min Scan# 611
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Tgt Ion: 59 Resp: 7100
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





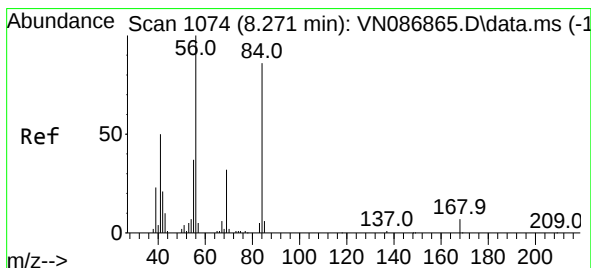
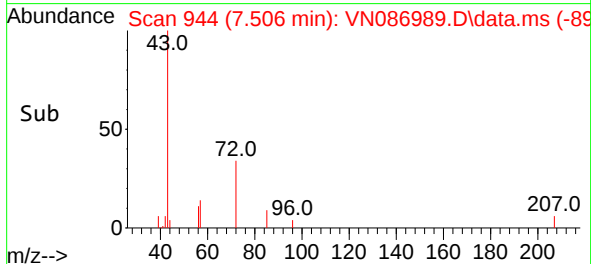
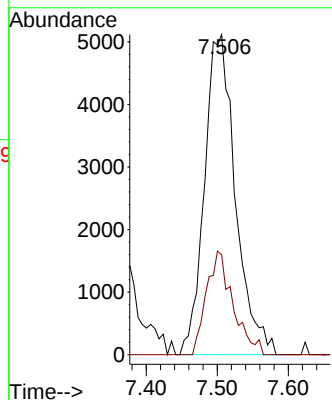
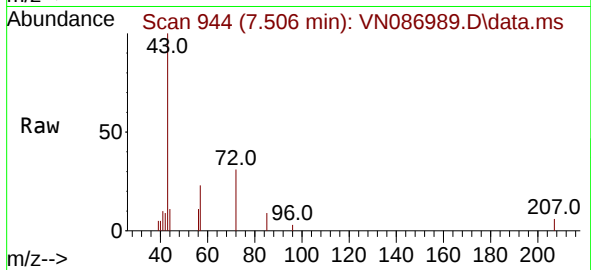
#25
2-Butanone
Concen: 6.766 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Tgt Ion: 43 Resp: 1551
Ion Ratio Lower Upper
43 100
72 31.2 23.0 34.6

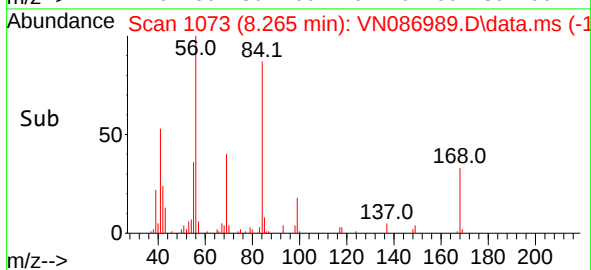
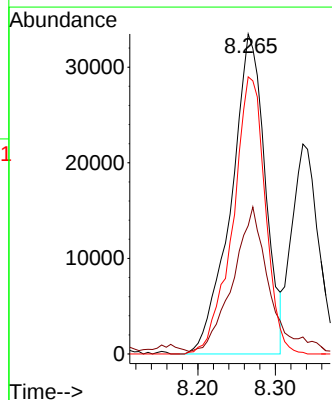
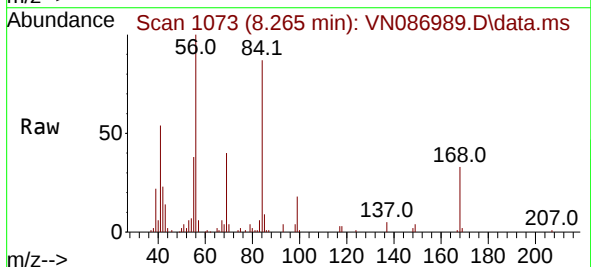
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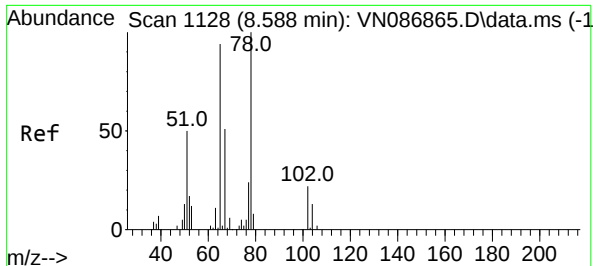
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#31
Cyclohexane
Concen: 23.702 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Tgt Ion: 56 Resp: 102271
Ion Ratio Lower Upper
56 100
69 38.4 25.4 38.0#
84 86.6 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 50.840 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605

Tgt Ion: 65 Resp: 135252

Ion Ratio Lower Upper

65 100

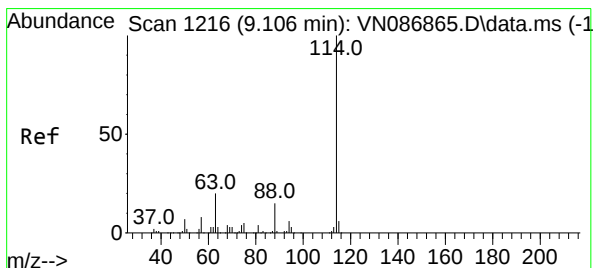
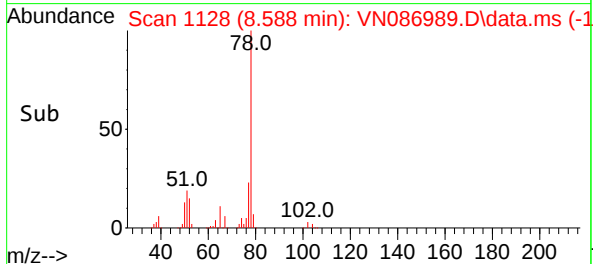
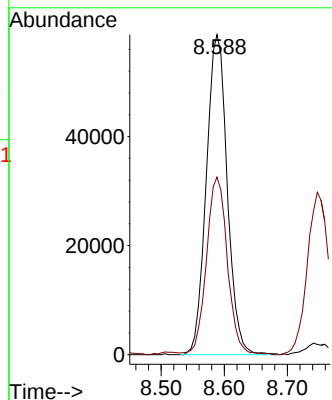
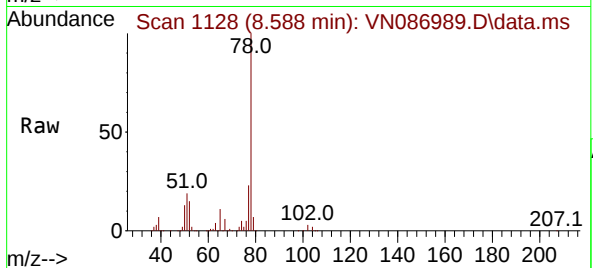
67 55.5 0.0 105.6

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Supervised By :Mahesh Dadoda 06/13/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

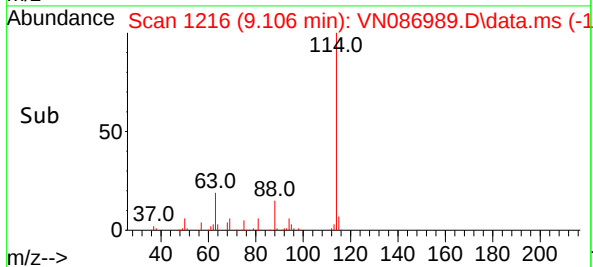
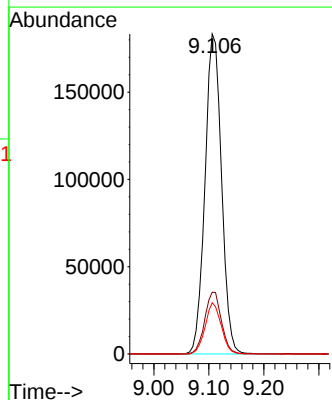
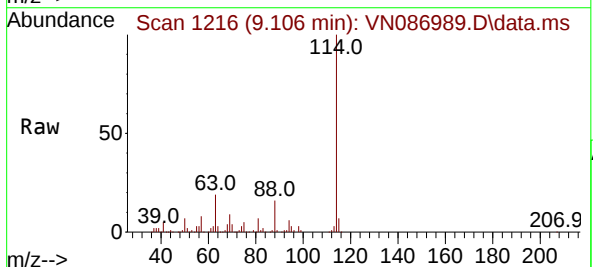
Tgt Ion:114 Resp: 383576

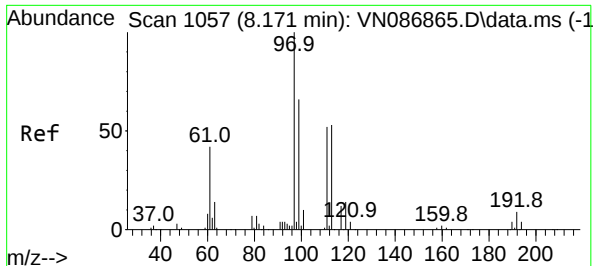
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 16.0 0.0 30.2





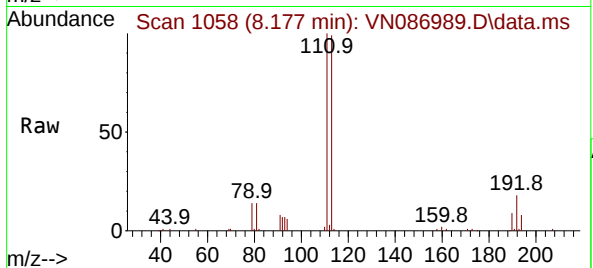
#35
Dibromofluoromethane
Concen: 51.064 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605



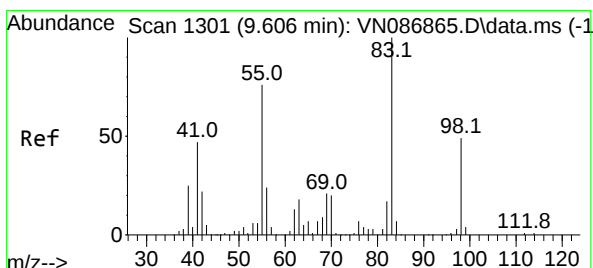
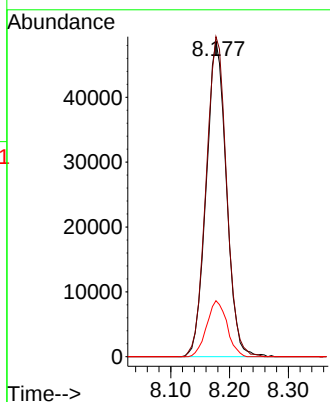
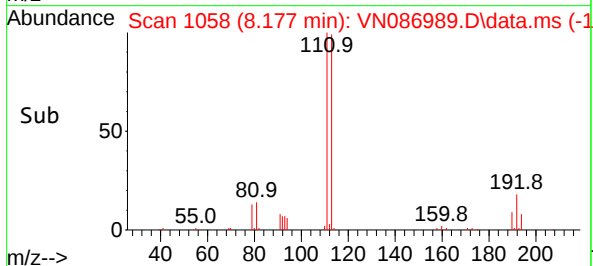
Tgt Ion: 113 Resp: 116070
Ion Ratio Lower Upper
113 100
111 102.6 84.2 126.2
192 17.8 14.2 21.4

Manual Integrations

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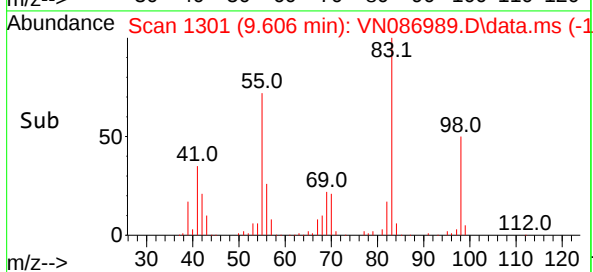
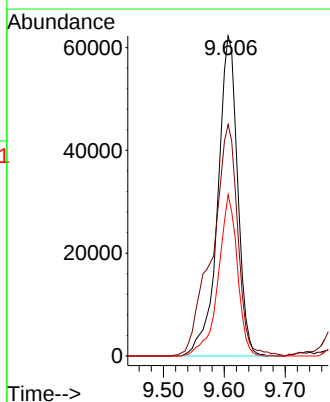
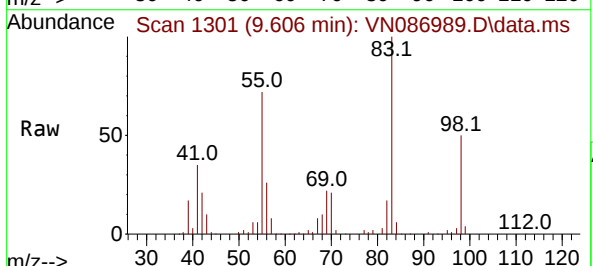
Reviewed By :John Carlone 06/13/2025

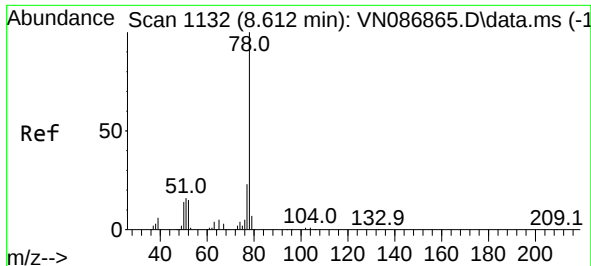
Supervised By :Mahesh Dadoda 06/13/2025



#39
Methylcyclohexane
Concen: 30.360 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Tgt Ion: 83 Resp: 140892
Ion Ratio Lower Upper
83 100
55 72.0 61.0 91.6
98 50.4 38.9 58.3





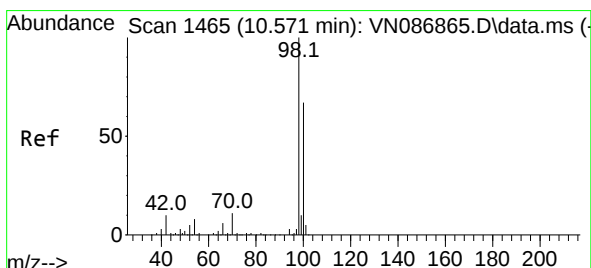
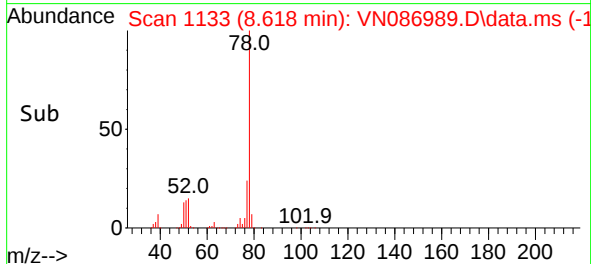
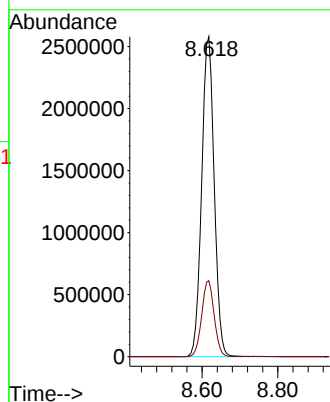
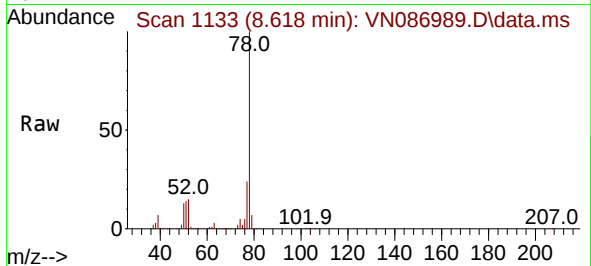
#40
Benzene
Concen: 534.934 ug/l
RT: 8.618 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Tgt Ion: 78 Resp: 592513
Ion Ratio Lower Upper
78 100
77 23.7 18.7 28.1

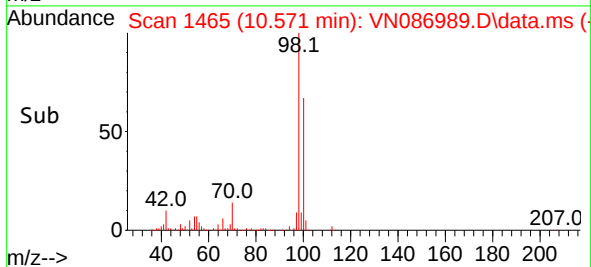
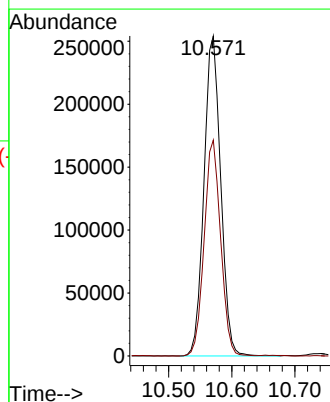
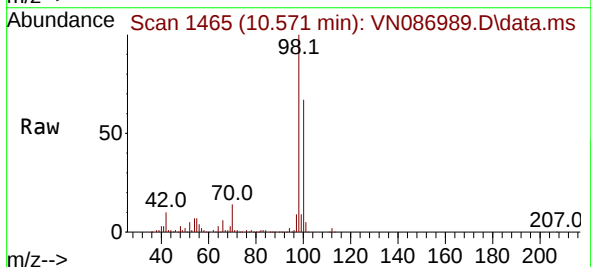
Manual Integrations
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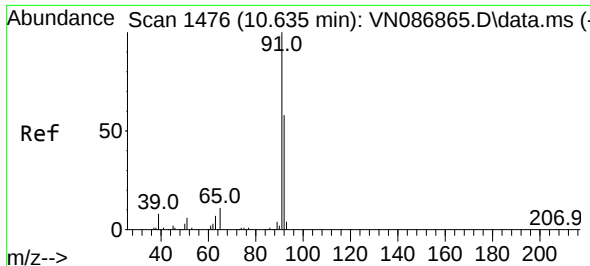
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#50
Toluene-d8
Concen: 51.994 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

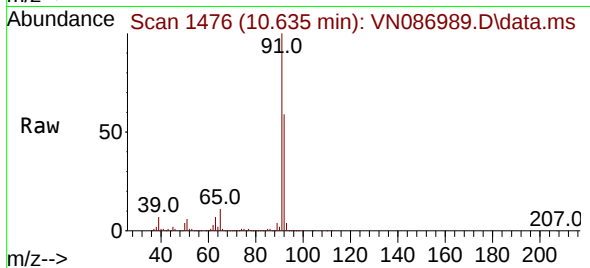
Tgt Ion: 98 Resp: 467889
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0





#52
Toluene
Concen: 262.112 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

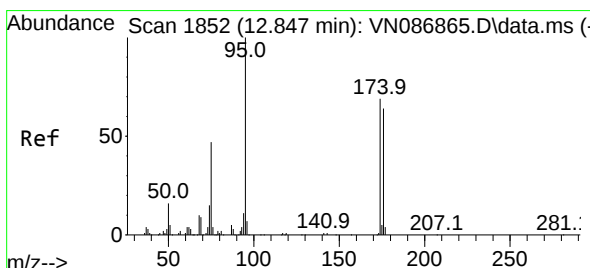
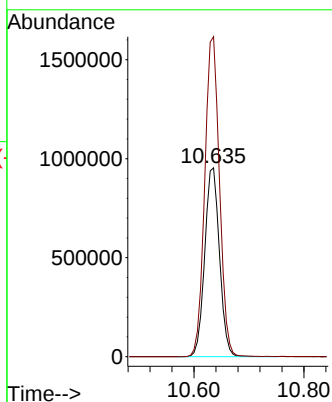
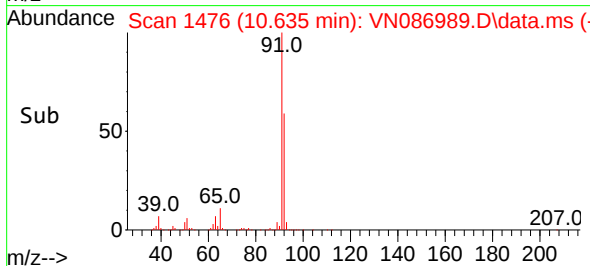
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion: 92 Resp: 1774259
Ion Ratio Lower Upper
92 100
91 169.6 136.5 204.7

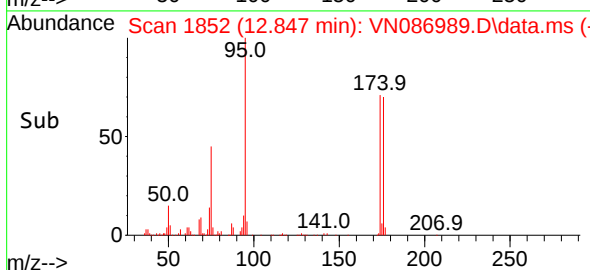
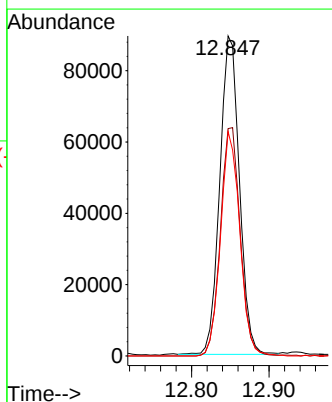
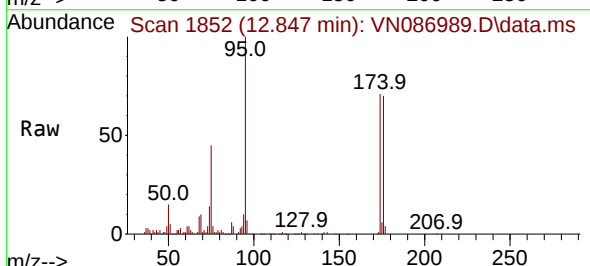
Manual Integrations
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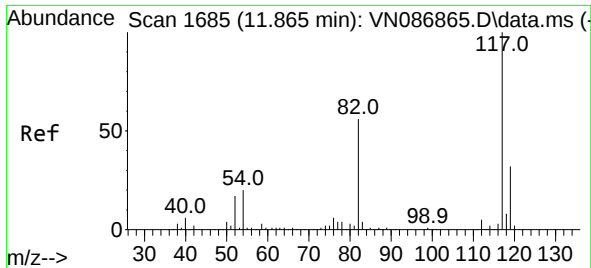
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 47.073 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Tgt Ion: 95 Resp: 157381
Ion Ratio Lower Upper
95 100
174 72.4 0.0 141.8
176 69.2 0.0 132.6





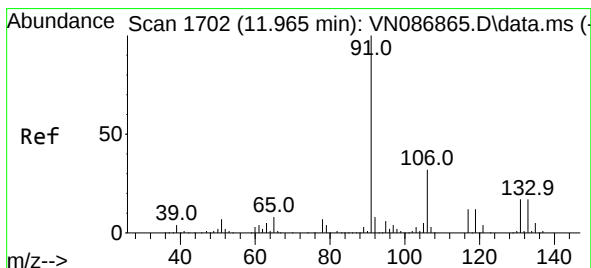
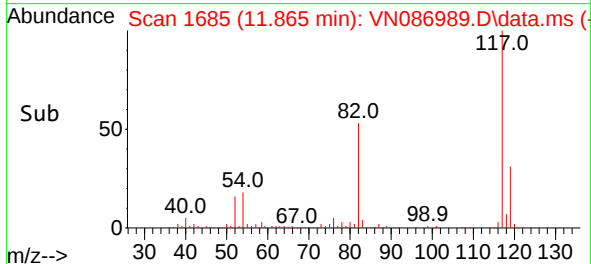
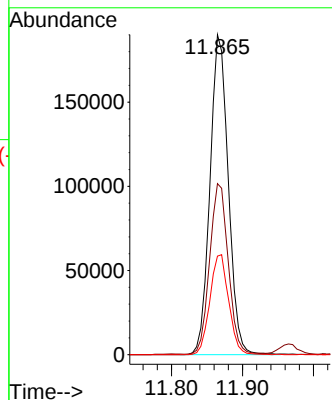
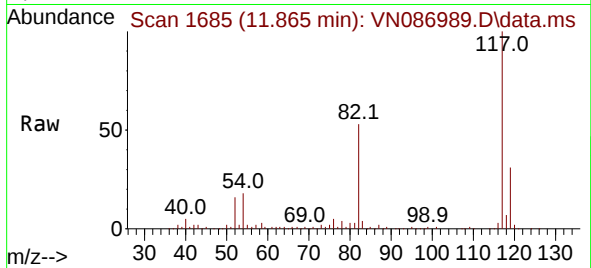
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Tgt Ion: 117 Resp: 34008
Ion Ratio Lower Upper
117 100
82 53.3 44.6 67.0
119 30.8 25.5 38.3

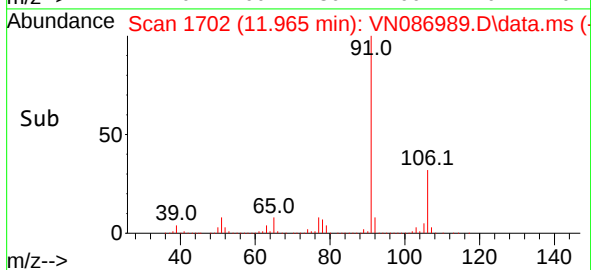
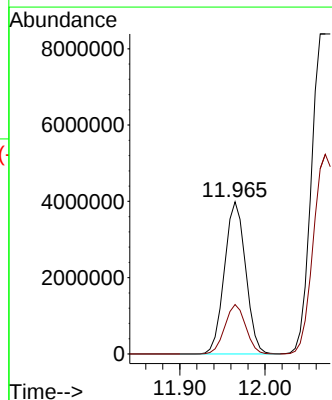
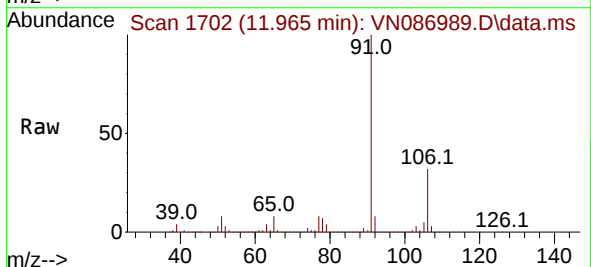
Manual Integrations
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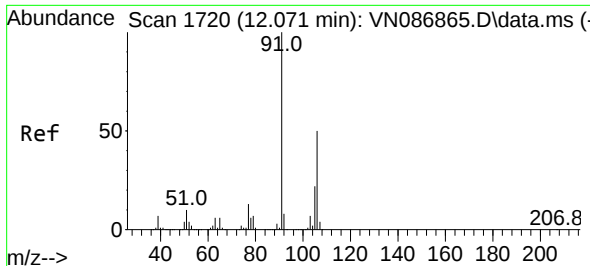
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#67
Ethyl Benzene
Concen: 534.225 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

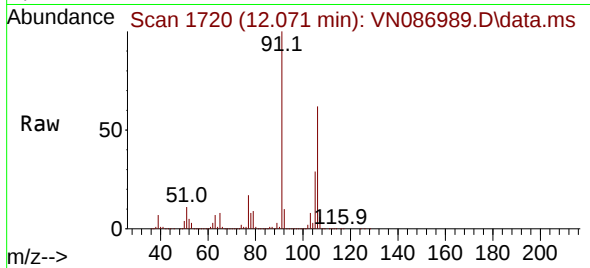
Tgt Ion: 91 Resp: 6902127
Ion Ratio Lower Upper
91 100
106 32.5 25.4 38.2





#68
m/p-Xylenes
Concen: 2148.355 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

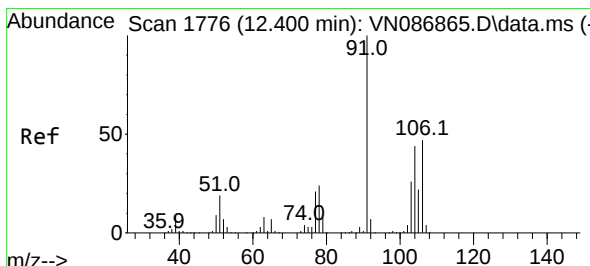
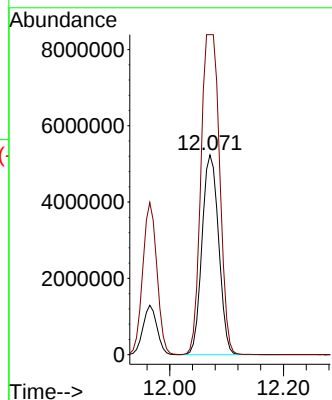
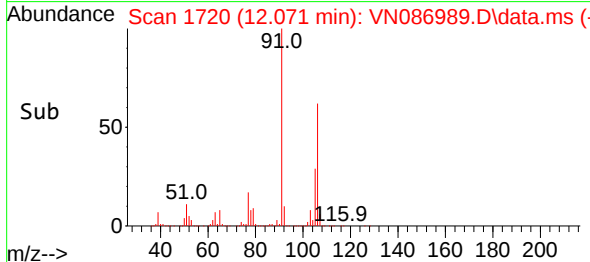
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion:106 Resp:10625188
Ion Ratio Lower Upper
106 100
91 179.9 159.4 239.0

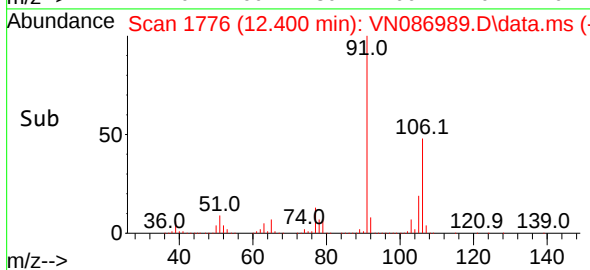
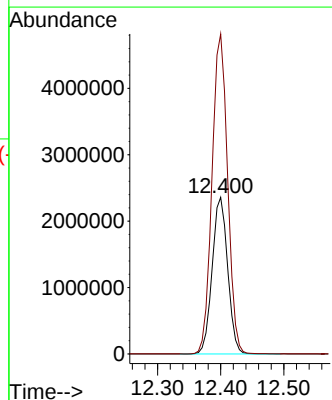
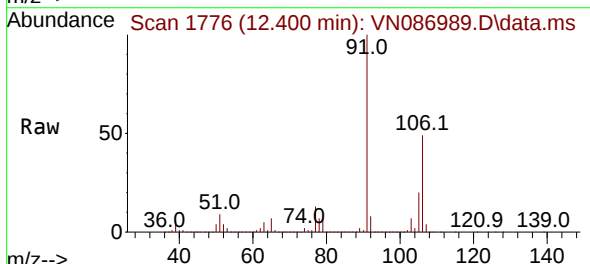
Manual Integrations
APPROVED

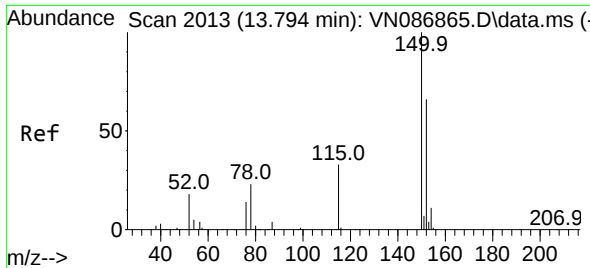
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#69
o-Xylene
Concen: 845.591 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

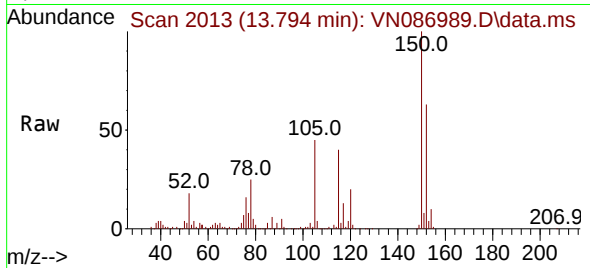
Tgt Ion:106 Resp: 4005333
Ion Ratio Lower Upper
106 100
91 206.1 106.1 318.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

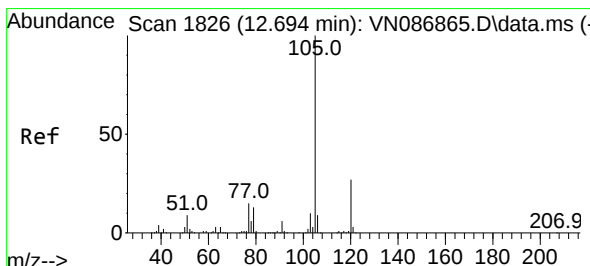
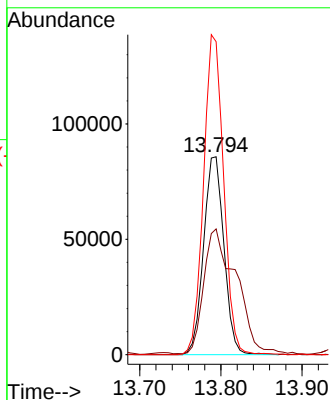
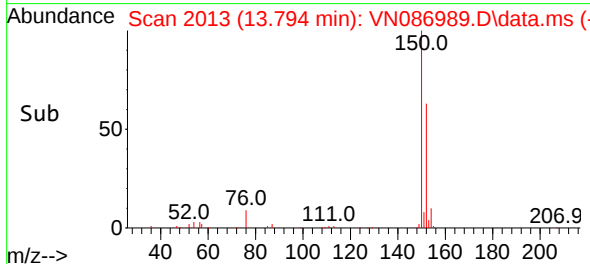
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



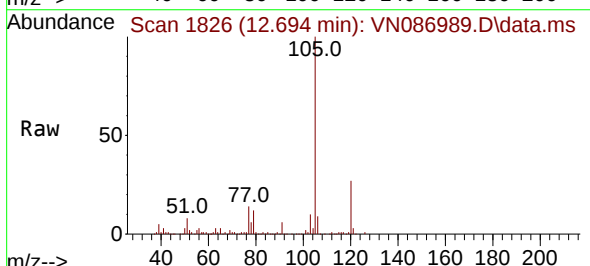
Tgt Ion:152 Resp: 14921
Ion Ratio Lower Upper
152 100
115 100.9 30.1 90.5
150 159.3 0.0 345.0

Manual Integrations
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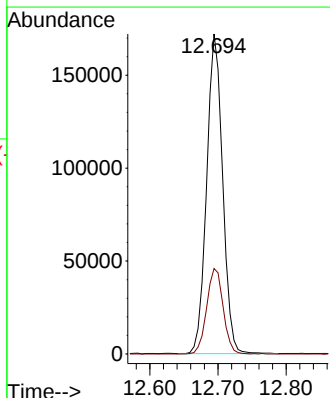
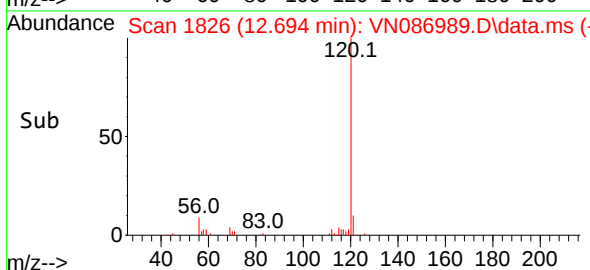
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

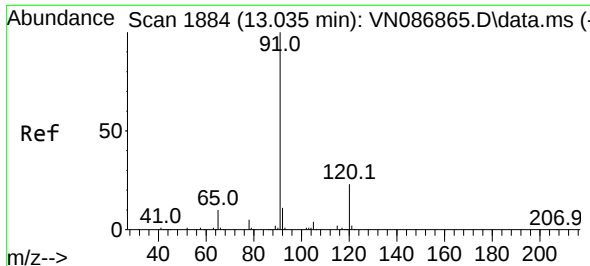


#73
Isopropylbenzene
Concen: 25.820 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41



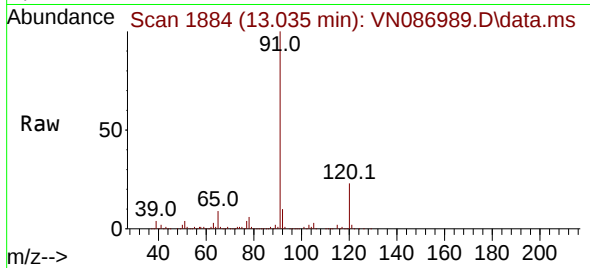
Tgt Ion:105 Resp: 280669
Ion Ratio Lower Upper
105 100
120 27.5 13.5 40.4





#78
n-propylbenzene
Concen: 30.008 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

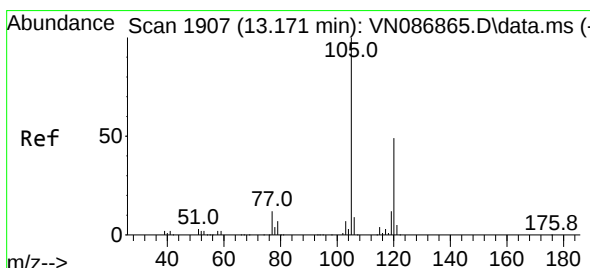
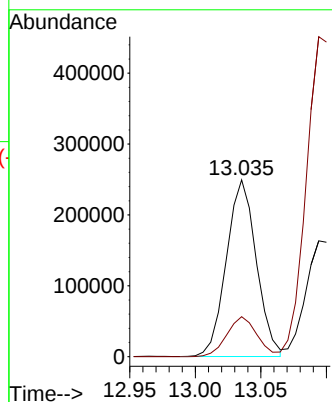
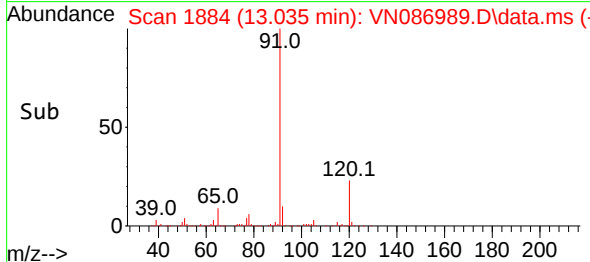
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



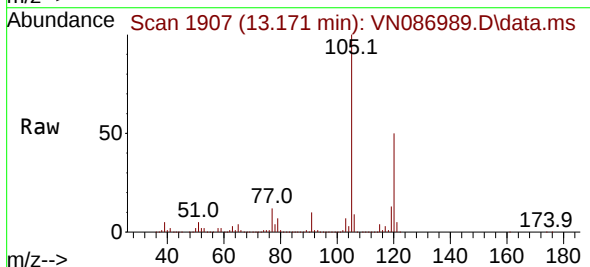
Tgt Ion: 91 Resp: 396408
Ion Ratio Lower Upper
91 100
120 22.6 11.4 34.2

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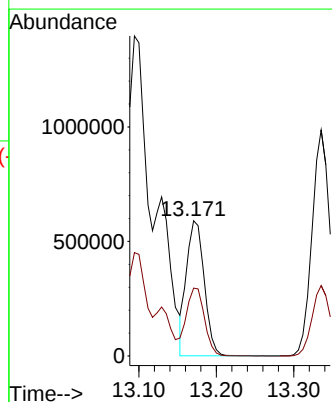
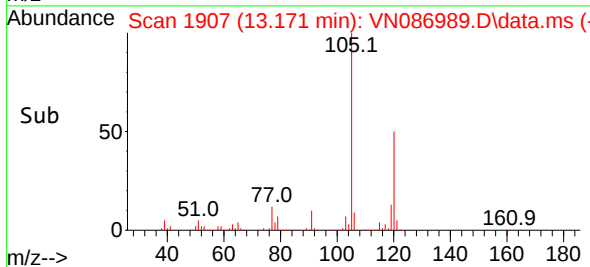
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

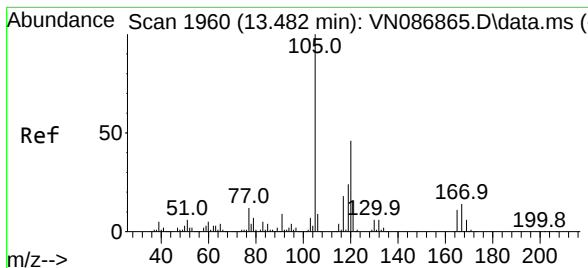


#80
1,3,5-Trimethylbenzene
Concen: 104.183 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41



Tgt Ion:105 Resp: 935009
Ion Ratio Lower Upper
105 100
120 53.5 24.9 74.6





#84

1,2,4-Trimethylbenzene

Concen: 506.717 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605

Tgt Ion:105 Resp: 4560220

Ion Ratio Lower Upper

105 100

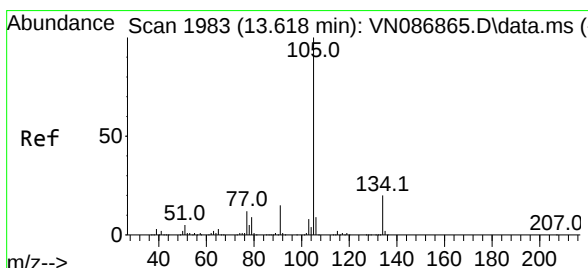
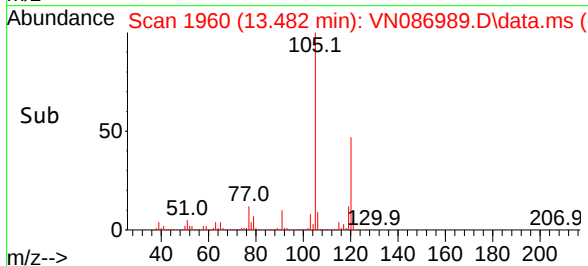
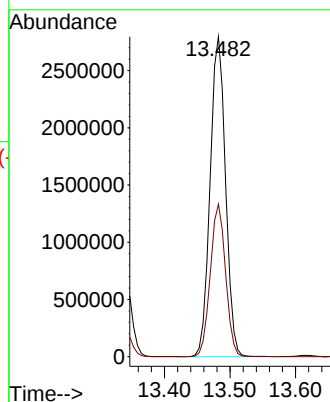
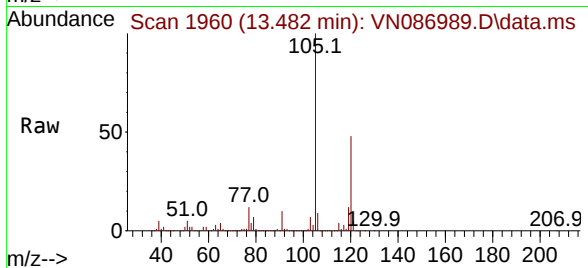
120 47.3 23.2 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#85

sec-Butylbenzene

Concen: 1.725 ug/l m

RT: 13.612 min Scan# 1982

Delta R.T. -0.006 min

Lab File: VN086989.D

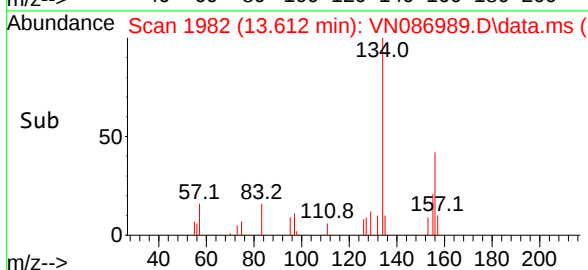
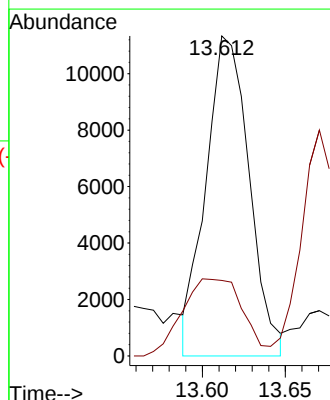
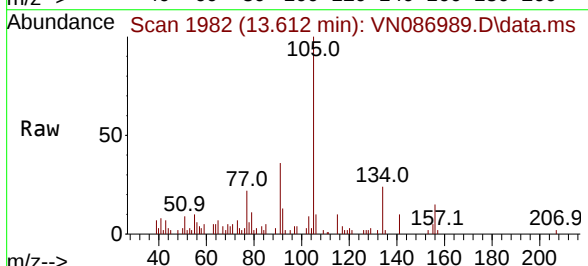
Acq: 12 Jun 2025 19:41

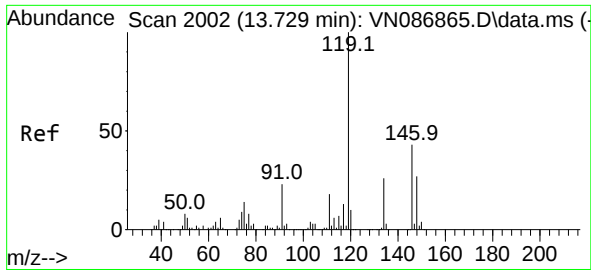
Tgt Ion:105 Resp: 20575

Ion Ratio Lower Upper

105 100

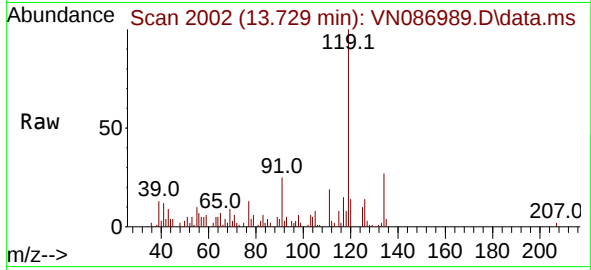
134 0.0 10.0 30.0#





#86
 p-Isopropyltoluene
 Concen: 1.981 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN086989.D
 Acq: 12 Jun 2025 19:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605



Tgt Ion:	119	Resp:	1953
Ion Ratio	Lower	Upper	
119	100		
134	26.8	13.5	40.4
91	0.0	11.5	34.4

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

