

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
 Data File : VN088135.D
 Acq On : 28 Oct 2025 13:38
 Operator : JC\MD
 Sample : Q3468-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/29/2025
 Supervised By :Semsettin Yesilyurt 10/29/2025

Quant Time: Oct 29 02:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	236497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	529671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	500860	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	243219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	214622	52.481	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.960%			
35) Dibromofluoromethane	8.153	113	165571	46.530	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.060%			
50) Toluene-d8	10.547	98	611488	44.598	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.200%			
62) 4-Bromofluorobenzene	12.829	95	246411	50.888	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.780%			
Target Compounds					Qvalue	
31) Cyclohexane	8.241	56	40348	7.048	ug/l	98
39) Methylcyclohexane	9.582	83	16088m	2.409	ug/l	
52) Toluene	10.612	92	2071	0.212	ug/l	94
68) m/p-Xylenes	12.053	106	9292	1.242	ug/l	94
73) Isopropylbenzene	12.676	105	55162	2.941	ug/l	96
78) n-propylbenzene	13.017	91	45705	1.997	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	5344m	0.343	ug/l	
84) 1,2,4-Trimethylbenzene	13.459	105	6040	0.387	ug/l	97
85) sec-Butylbenzene	13.594	105	28067	1.373	ug/l #	45
86) p-Isopropyltoluene	13.712	119	4717m	0.288	ug/l	
89) n-Butylbenzene	14.006	91	24163m	1.487	ug/l	
95) Naphthalene	15.611	128	29122m	1.803	ug/l	

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

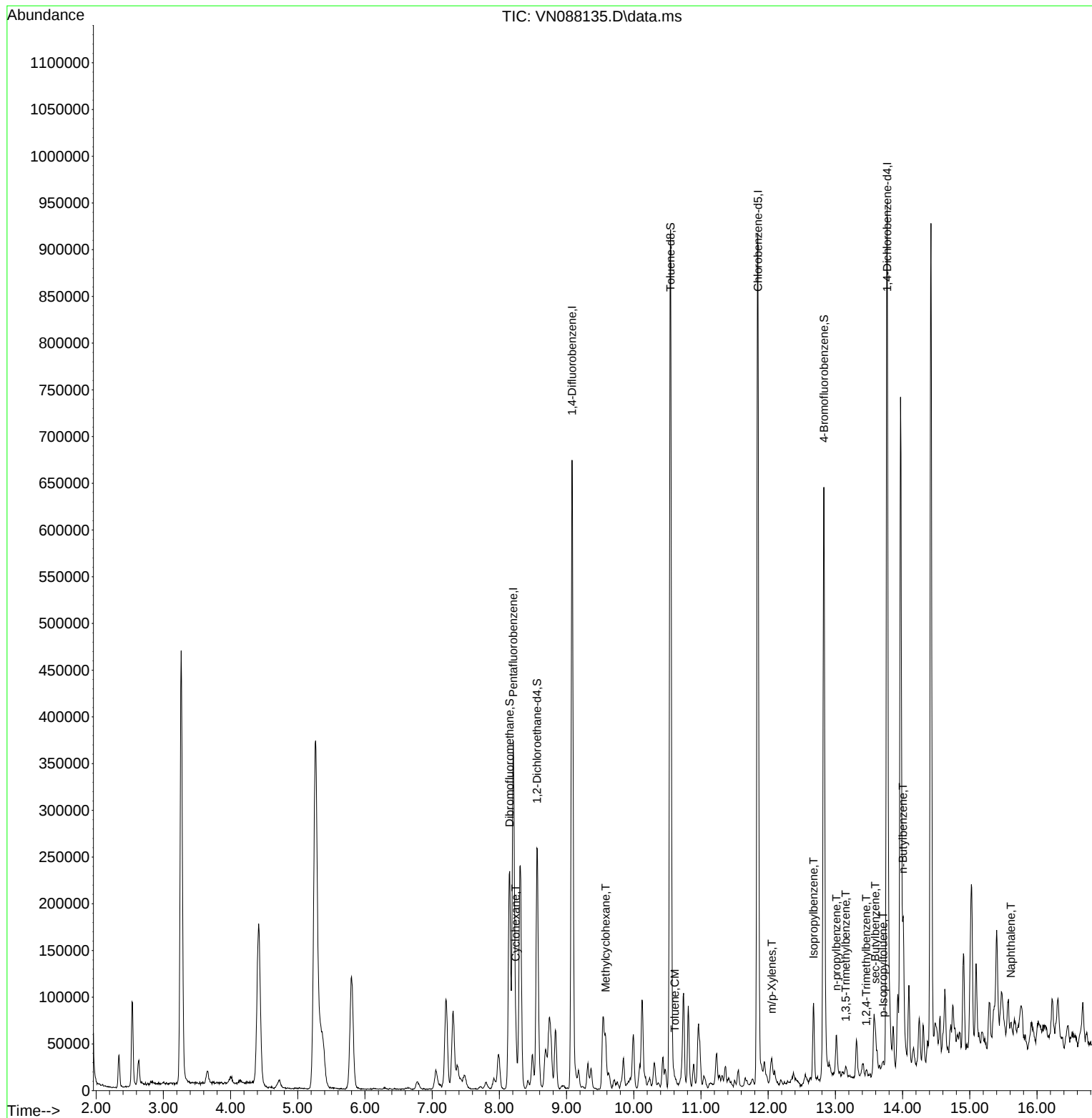
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
Data File : VN088135.D
Acq On : 28 Oct 2025 13:38
Operator : JC\MD
Sample : Q3468-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

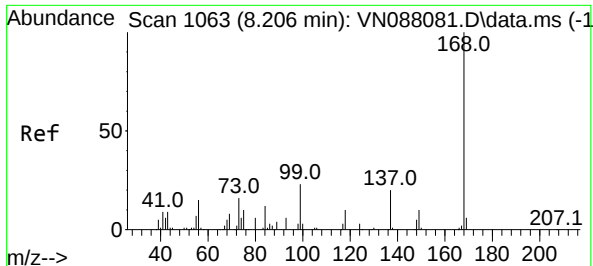
Instrument :
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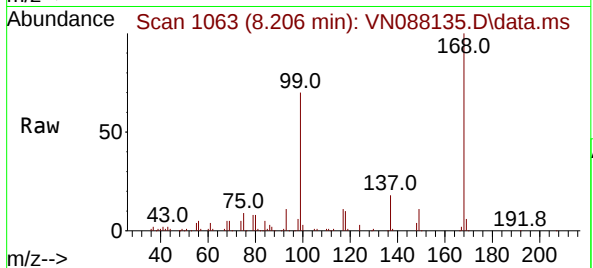
Quant Time: Oct 29 02:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

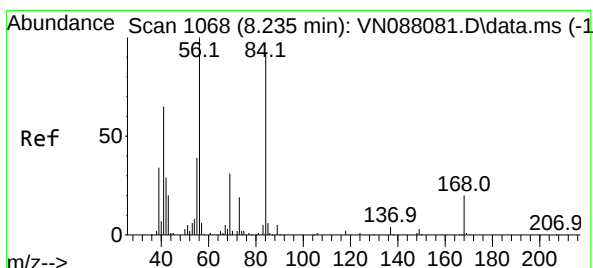
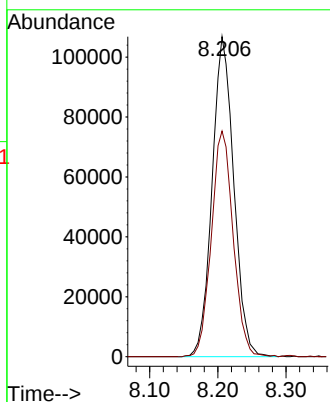
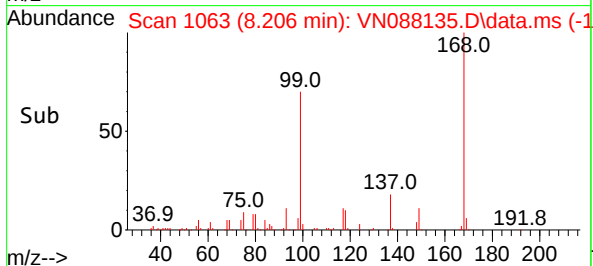
Instrument :
MSVOA_N
ClientSampleId :
MW-10



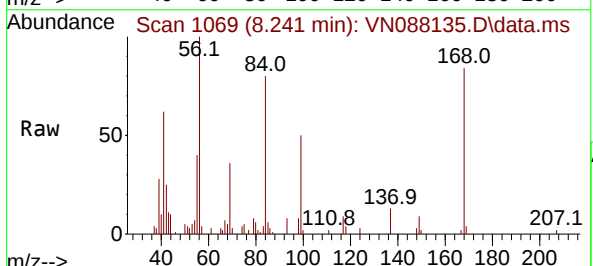
Tgt Ion:168 Resp: 23649
Ion Ratio Lower Upper
168 100
99 70.5 57.2 85.8

Manual Integrations
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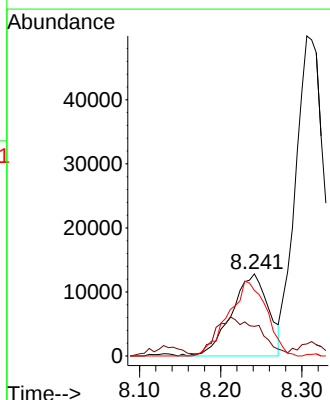
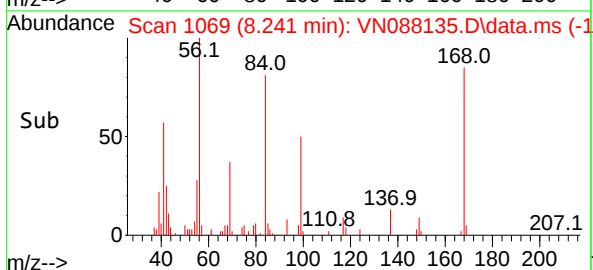
Reviewed By :John Carlone 10/29/2025
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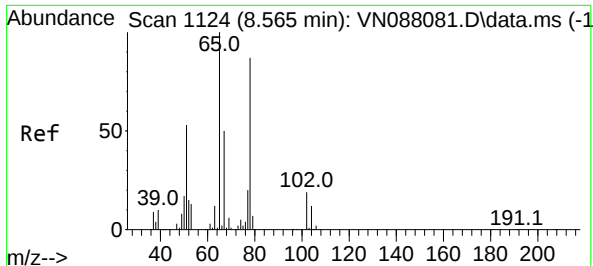


#31
Cyclohexane
Concen: 7.048 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38



Tgt Ion: 56 Resp: 40348
Ion Ratio Lower Upper
56 100
69 27.7 23.7 35.5
84 79.9 64.7 97.1





#33

1,2-Dichloroethane-d4

Concen: 52.481 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088135.D

Acq: 28 Oct 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

MW-10

Tgt Ion: 65 Resp: 21462

Ion Ratio Lower Upper

65 100

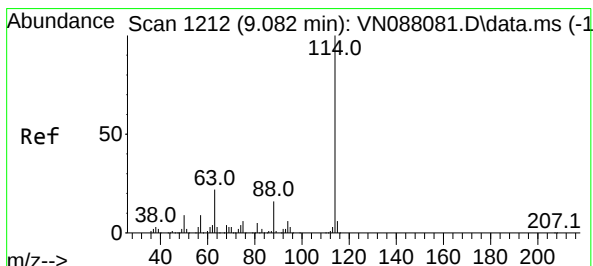
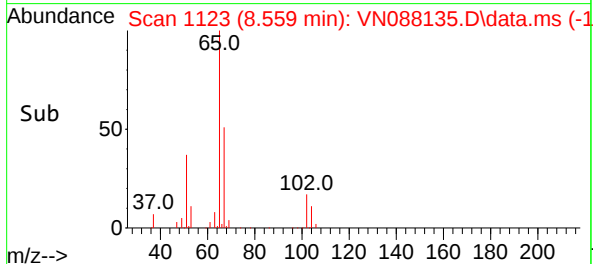
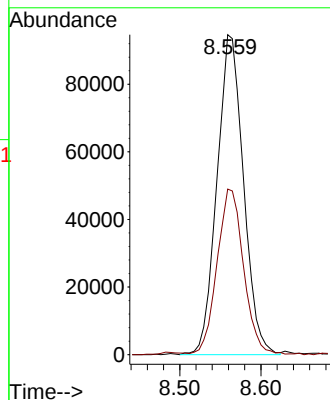
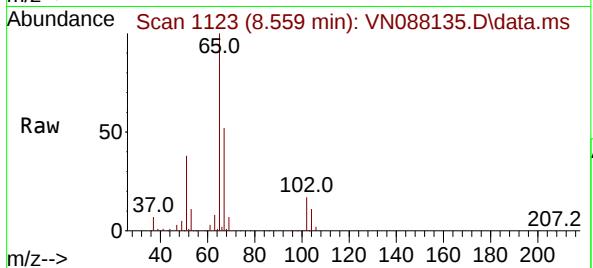
67 51.3 0.0 100.0

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088135.D

Acq: 28 Oct 2025 13:38

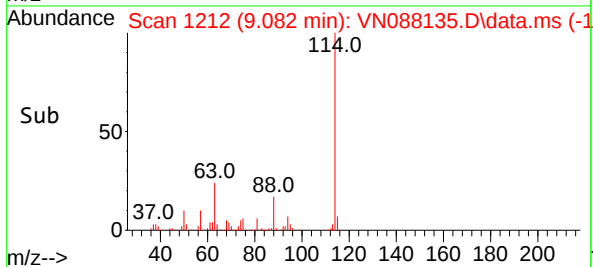
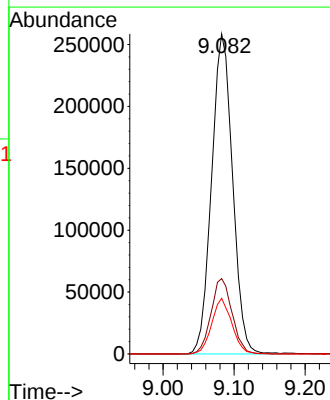
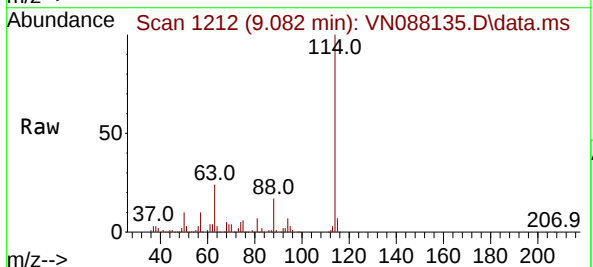
Tgt Ion:114 Resp: 529671

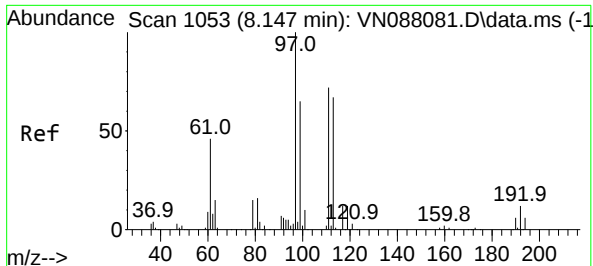
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.2

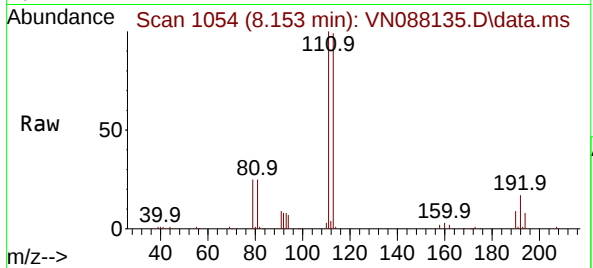
88 17.4 0.0 33.4





#35
Dibromofluoromethane
Concen: 46.530 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

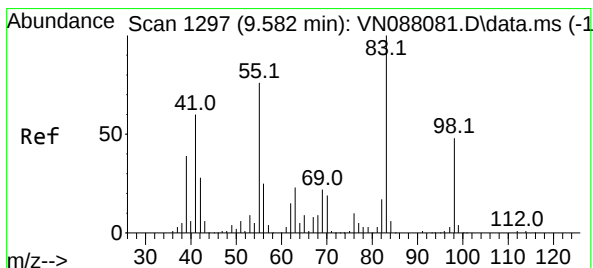
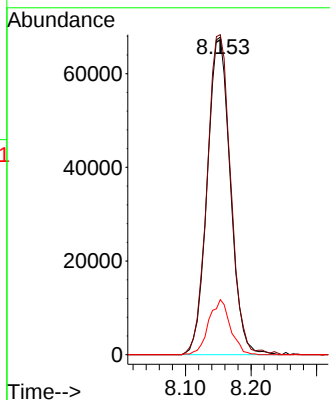
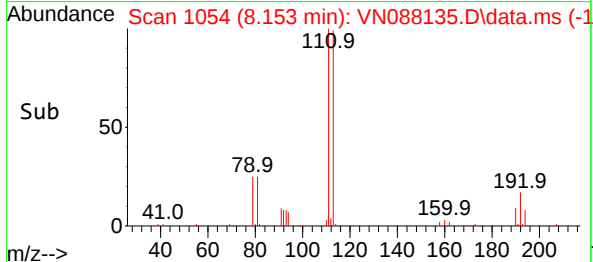
Instrument :
MSVOA_N
ClientSampleId :
MW-10



Tgt Ion: 113 Resp: 16557
Ion Ratio Lower Upper
113 100
111 103.2 82.8 124.2
192 16.2 12.8 19.2

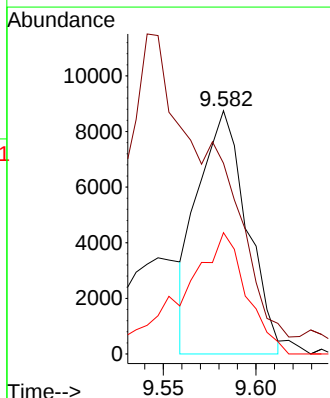
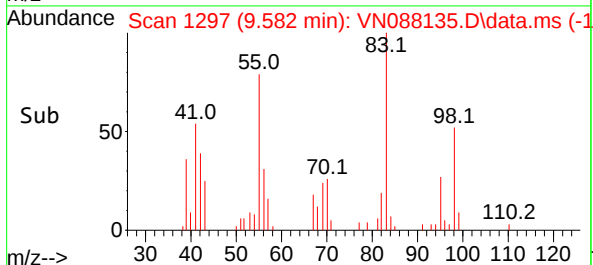
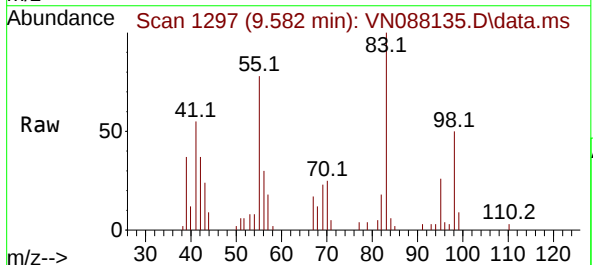
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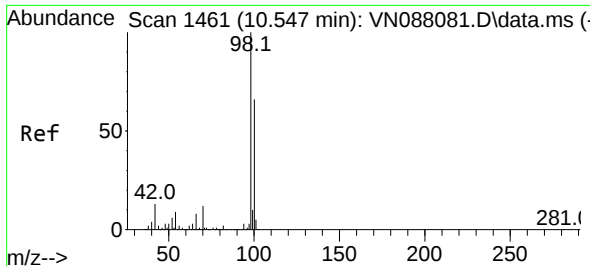
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#39
Methylcyclohexane
Concen: 2.409 ug/l m
RT: 9.582 min Scan# 1297
Delta R.T. -0.000 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

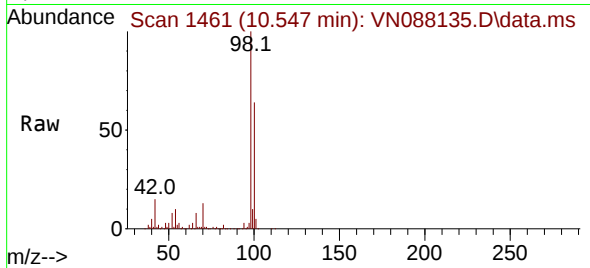
Tgt Ion: 83 Resp: 16088
Ion Ratio Lower Upper
83 100
55 78.4 64.6 96.8
98 49.9 38.4 57.6





#50
Toluene-d8
Concen: 44.598 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

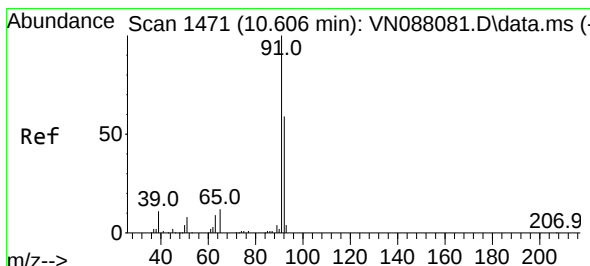
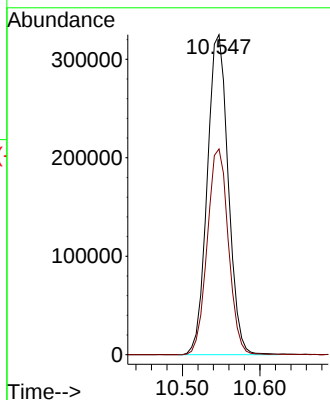
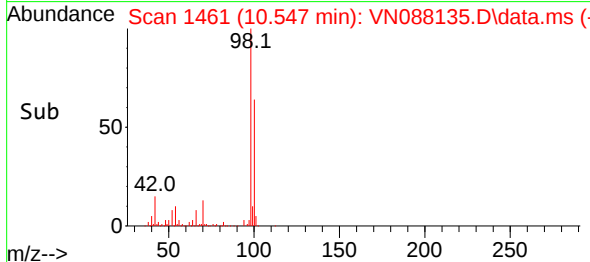
Instrument :
MSVOA_N
ClientSampleId :
MW-10



Tgt Ion: 98 Resp: 611488
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2

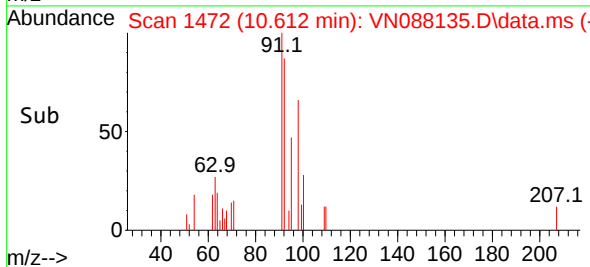
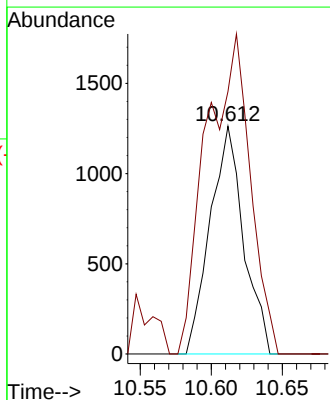
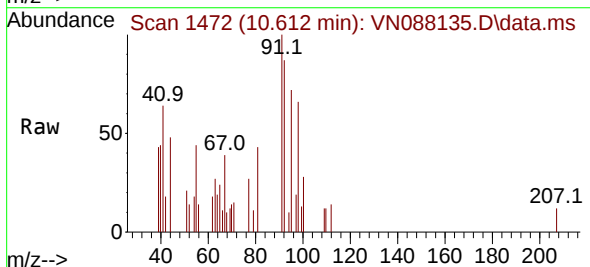
Manual Integrations
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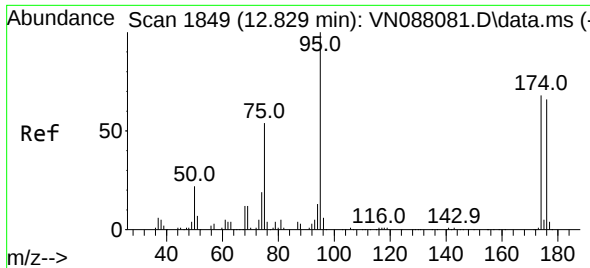
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#52
Toluene
Concen: 0.212 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

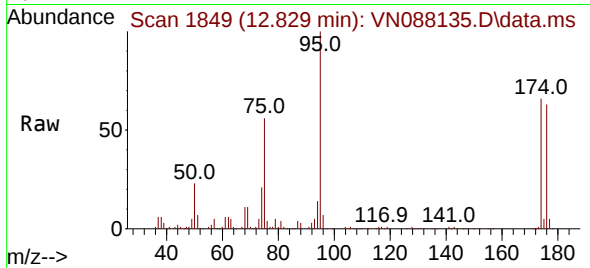
Tgt Ion: 92 Resp: 2071
Ion Ratio Lower Upper
92 100
91 184.0 140.4 210.6





#62
4-Bromofluorobenzene
Concen: 50.888 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

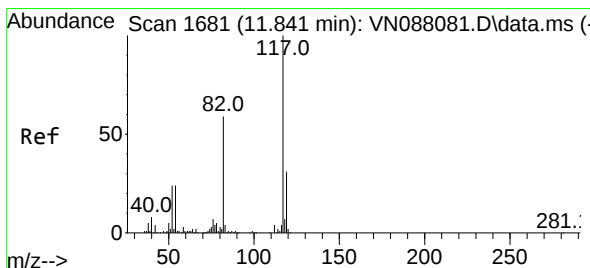
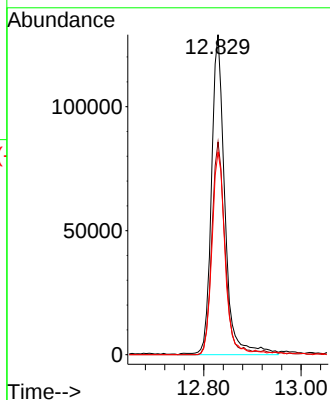
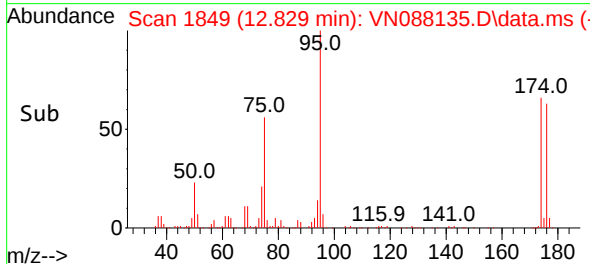
Instrument :
MSVOA_N
ClientSampleId :
MW-10



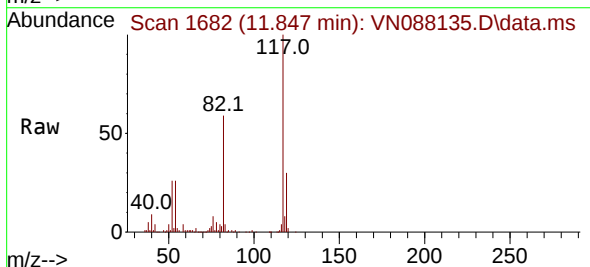
Tgt Ion: 95 Resp: 24641
Ion Ratio Lower Upper
95 100
174 65.0 0.0 138.4
176 61.3 0.0 132.6

Manual Integrations
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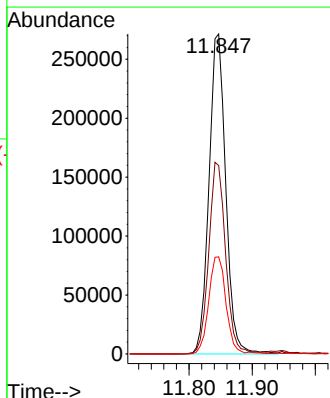
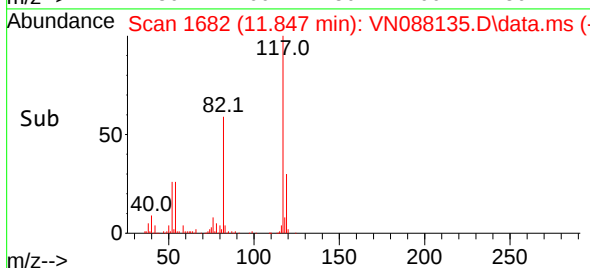
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025

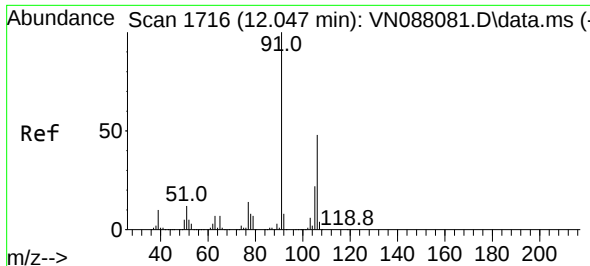


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38



Tgt Ion:117 Resp: 500860
Ion Ratio Lower Upper
117 100
82 58.9 47.4 71.2
119 30.3 24.3 36.5





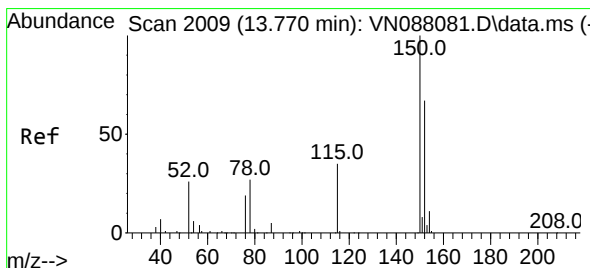
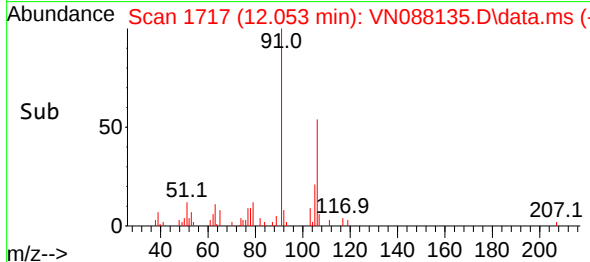
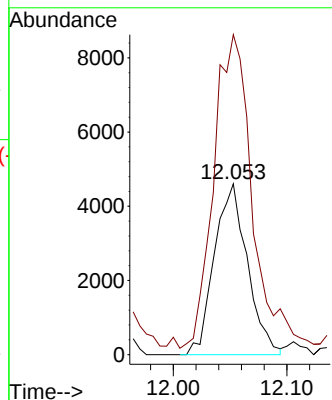
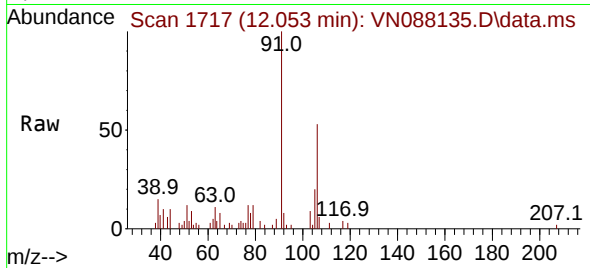
#68
m/p-Xylenes
Concen: 1.242 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion:106 Resp: 929
Ion Ratio Lower Upper
106 100
91 220.7 169.3 253.9

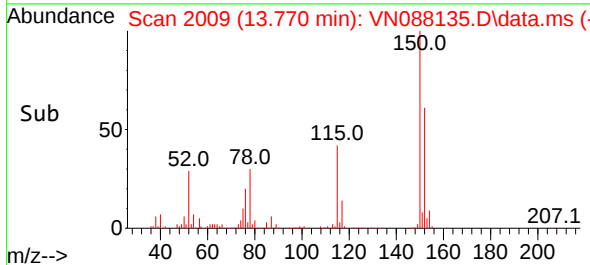
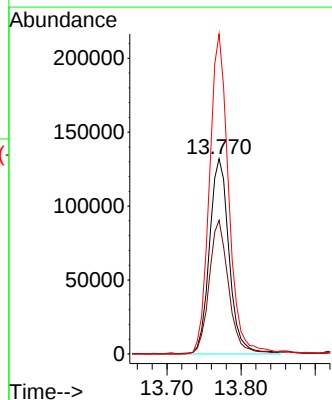
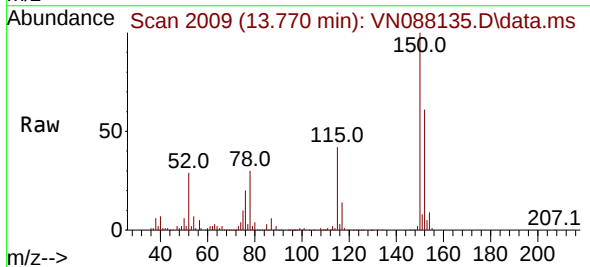
Manual Integrations
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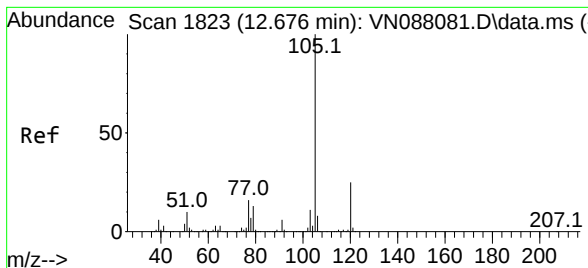
Reviewed By :John Carlone 10/29/2025
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

Tgt Ion:152 Resp: 243219
Ion Ratio Lower Upper
152 100
115 66.9 32.3 96.8
150 161.1 0.0 351.0





#73

Isopropylbenzene

Concen: 2.941 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN088135.D

Acq: 28 Oct 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

MW-10

Tgt Ion: 105 Resp: 5516

Ion Ratio Lower Upper

105 100

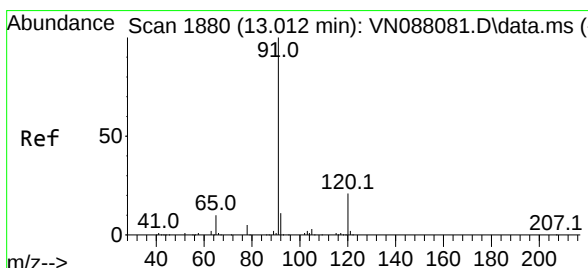
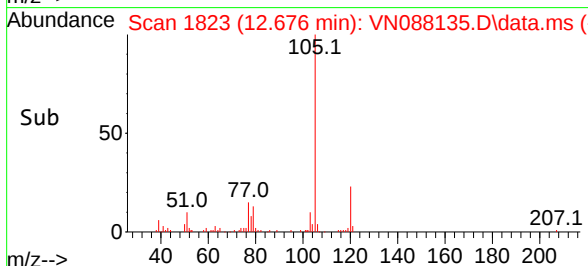
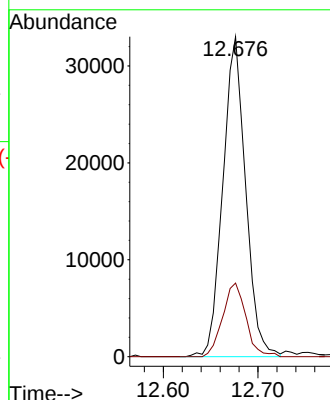
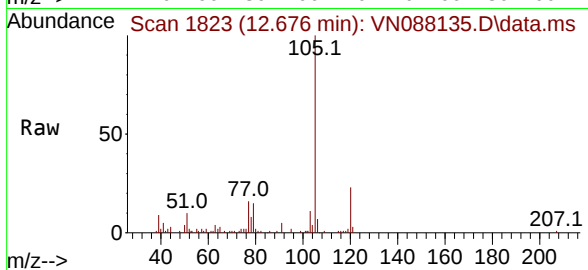
120 23.5 12.8 38.3

Manual Integrations

APPROVED

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#78

n-propylbenzene

Concen: 1.997 ug/l

RT: 13.017 min Scan# 1881

Delta R.T. 0.005 min

Lab File: VN088135.D

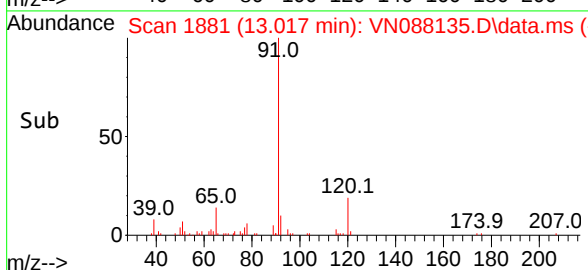
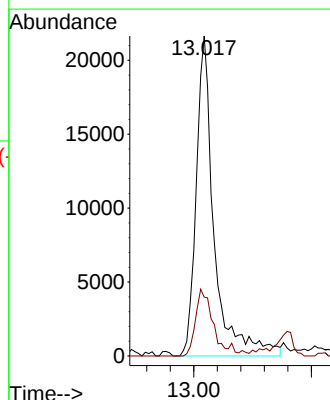
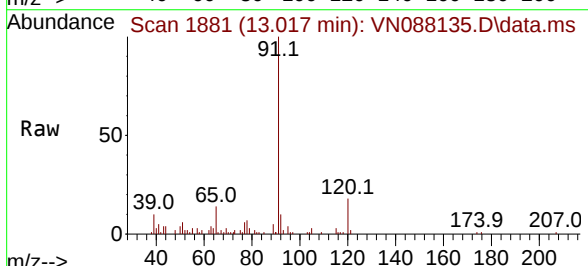
Acq: 28 Oct 2025 13:38

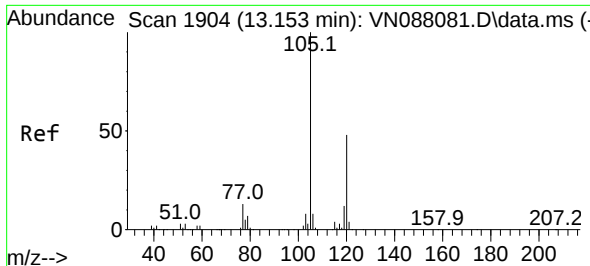
Tgt Ion: 91 Resp: 45705

Ion Ratio Lower Upper

91 100

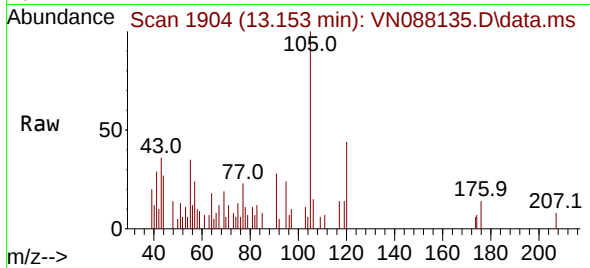
120 20.7 10.7 32.1





#80
1,3,5-Trimethylbenzene
Concen: 0.343 ug/l m
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

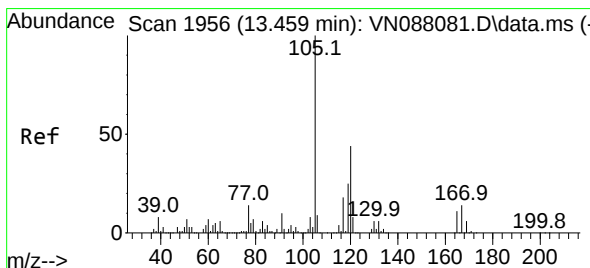
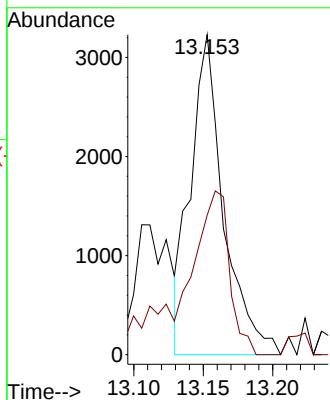
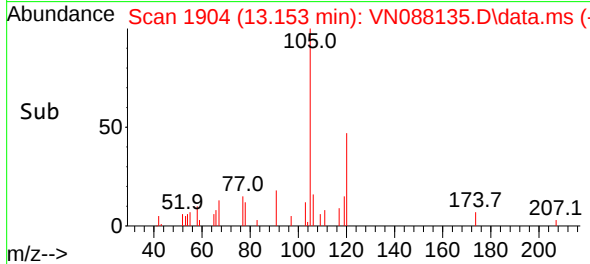
Instrument :
MSVOA_N
ClientSampleId :
MW-10



Tgt Ion:105 Resp: 5344
Ion Ratio Lower Upper
105 100
120 145.3 23.2 69.6

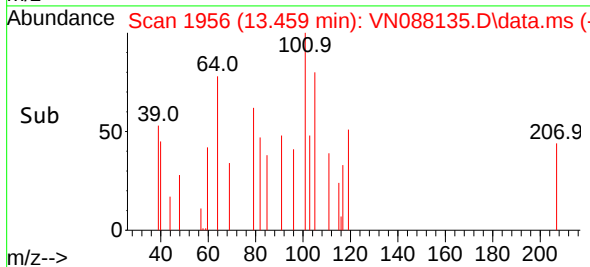
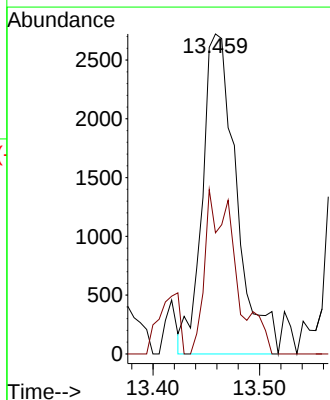
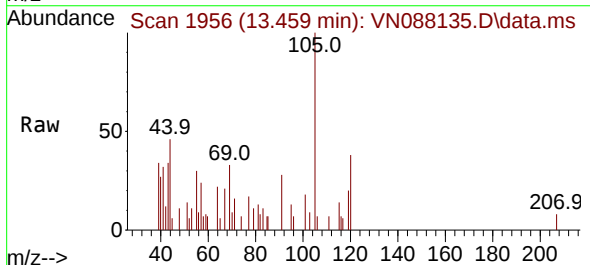
Manual Integrations
APPROVED

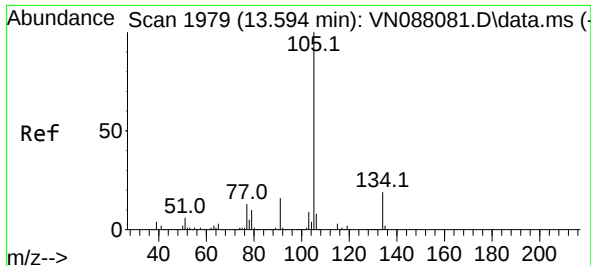
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#84
1,2,4-Trimethylbenzene
Concen: 0.387 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088135.D
Acq: 28 Oct 2025 13:38

Tgt Ion:105 Resp: 6040
Ion Ratio Lower Upper
105 100
120 45.8 22.0 66.0





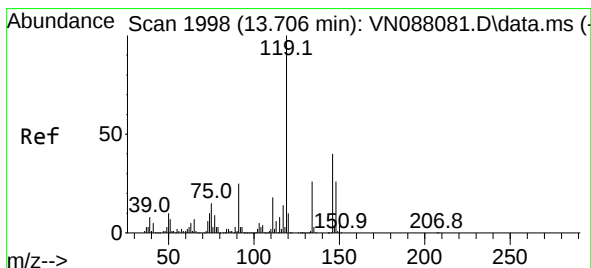
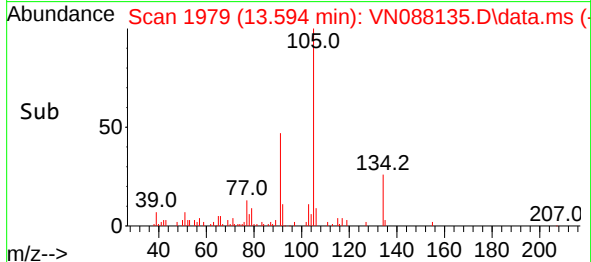
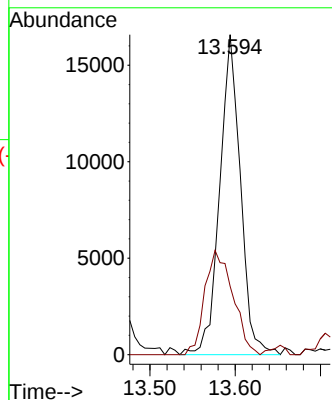
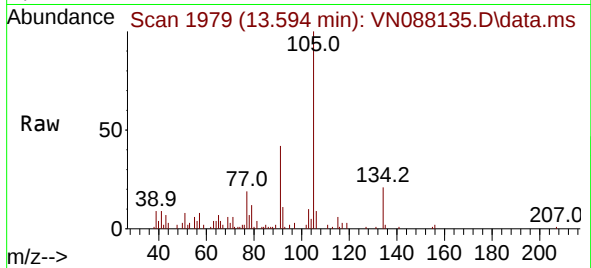
#85
 sec-Butylbenzene
 Concen: 1.373 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN088135.D
 Acq: 28 Oct 2025 13:38

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Tgt Ion:105 Resp: 2806
 Ion Ratio Lower Upper
 105 100
 134 44.1 9.6 28.6

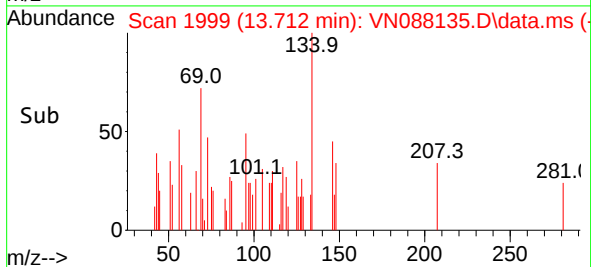
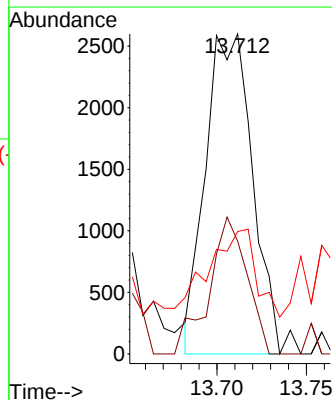
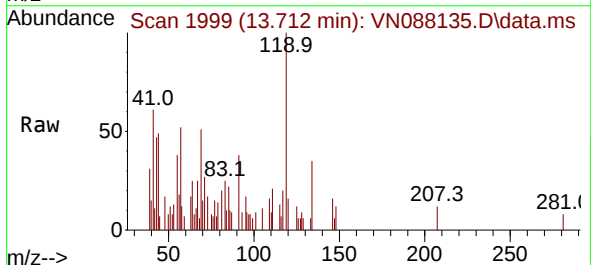
Manual Integrations
 APPROVED

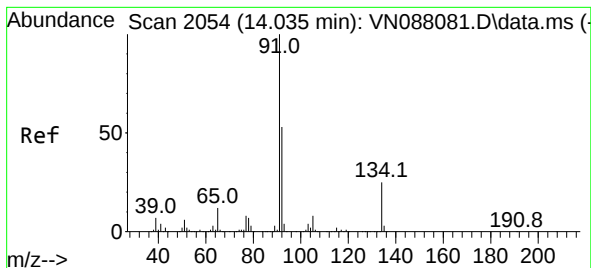
Reviewed By :John Carlone 10/29/2025
 Supervised By :Semsettin Yesilyurt 10/29/2025



#86
 p-Isopropyltoluene
 Concen: 0.288 ug/l m
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.006 min
 Lab File: VN088135.D
 Acq: 28 Oct 2025 13:38

Tgt Ion:119 Resp: 4717
 Ion Ratio Lower Upper
 119 100
 134 118.3 12.7 38.0#
 91 120.5 12.5 37.5#





#89

n-Butylbenzene

Concen: 1.487 ug/l m

RT: 14.006 min Scan# 2054

Delta R.T. -0.024 min

Lab File: VN088135.D

Acq: 28 Oct 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

MW-10

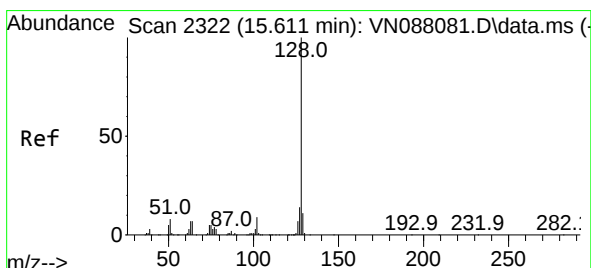
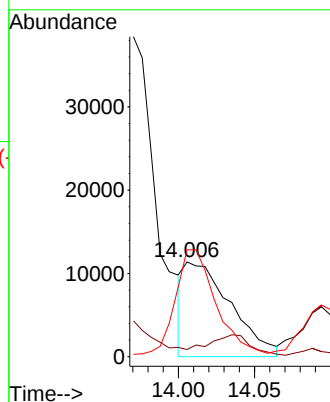
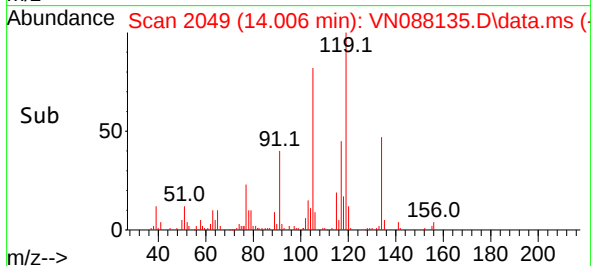
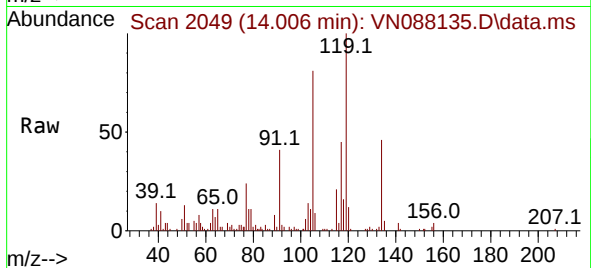
Tgt Ion:	91	Resp:	2416
Ion	Ratio	Lower	Upper
91	100		
92	32.4	25.9	77.8
134	0.0	11.7	35.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#95

Naphthalene

Concen: 1.803 ug/l m

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN088135.D

Acq: 28 Oct 2025 13:38

Tgt Ion:	128	Resp:	29122
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	12.8#

