

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
 Data File : VN088138.D
 Acq On : 28 Oct 2025 14:40
 Operator : JC\MD
 Sample : Q3468-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08

Manual Integrations
 APPROVED

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

Quant Time: Oct 29 02:25:27 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	280779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	636841	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	622260	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	313348	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	293459	60.441	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.880%			
35) Dibromofluoromethane	8.147	113	206787	48.334	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.660%			
50) Toluene-d8	10.547	98	770105	46.715	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.440%			
62) 4-Bromofluorobenzene	12.829	95	322452	55.386	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.780%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.536	59	43062	51.482	ug/l	97
16) Acetone	4.418	43	64476	26.433	ug/l #	83
25) 2-Butanone	7.477	43	33085	10.292	ug/l	91
31) Cyclohexane	8.236	56	269553	39.662	ug/l	94
39) Methylcyclohexane	9.582	83	168825	21.025	ug/l	97
40) Benzene	8.588	78	2340324	123.016	ug/l	98
52) Toluene	10.612	92	111950	9.544	ug/l	97
67) Ethyl Benzene	11.941	91	2499788	100.790	ug/l	100
68) m/p-Xylenes	12.053	106	2876708	309.563	ug/l	100
69) o-Xylene	12.376	106	2138954	242.808	ug/l	98
73) Isopropylbenzene	12.676	105	256674	10.621	ug/l	100
78) n-propylbenzene	13.012	91	497843	16.880	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	309175	15.404	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	6997704	348.461	ug/l	99
85) sec-Butylbenzene	13.594	105	46826m	1.778	ug/l	
86) p-Isopropyltoluene	13.706	119	28773m	1.362	ug/l	
89) n-Butylbenzene	14.012	91	51740m	2.472	ug/l	
95) Naphthalene	15.611	128	4365299m	209.807	ug/l	

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

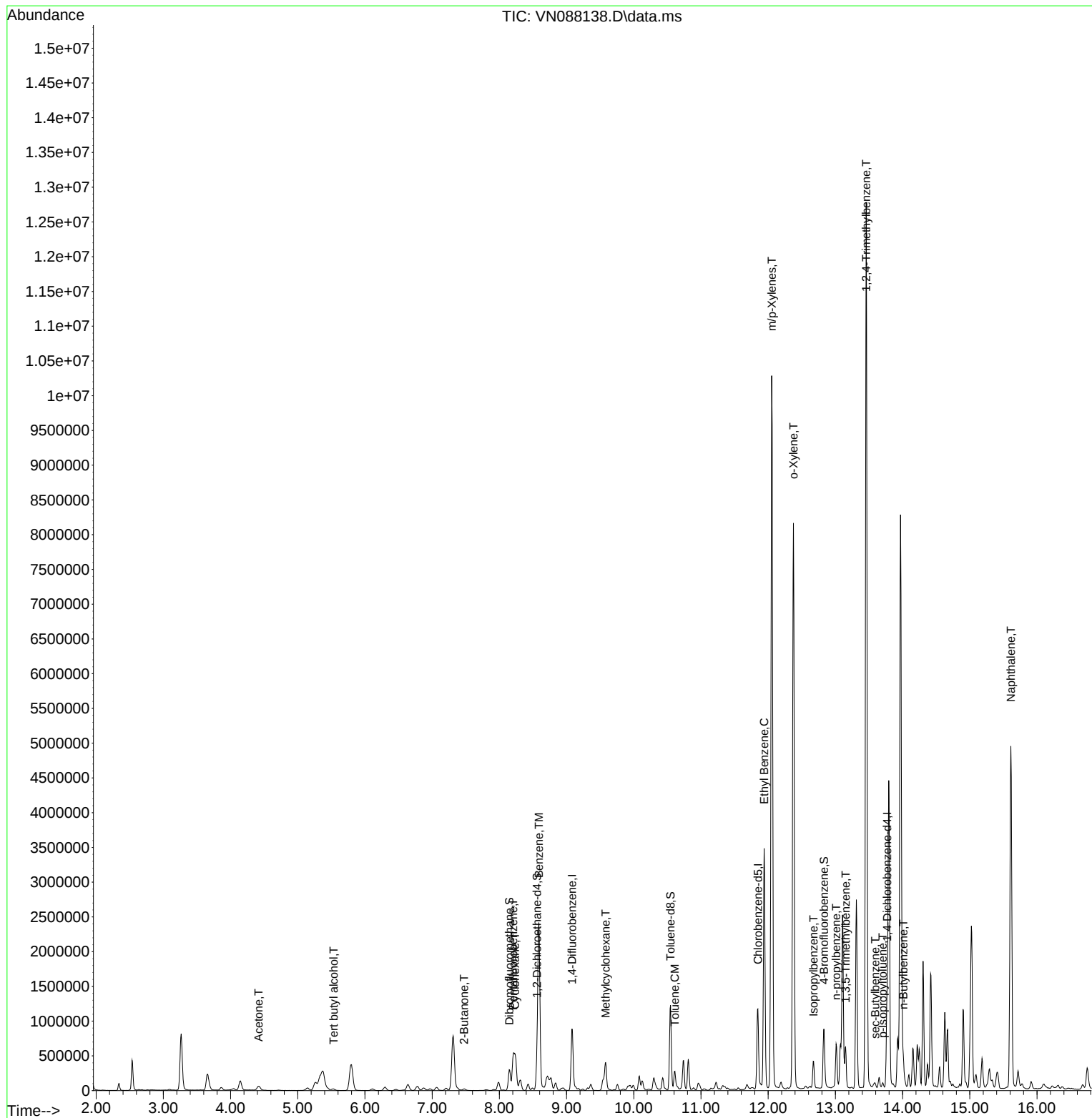
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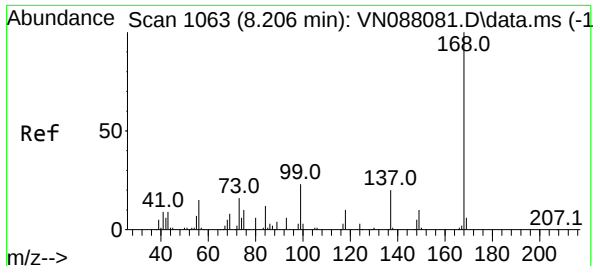
Instrument :
MSVOA_N
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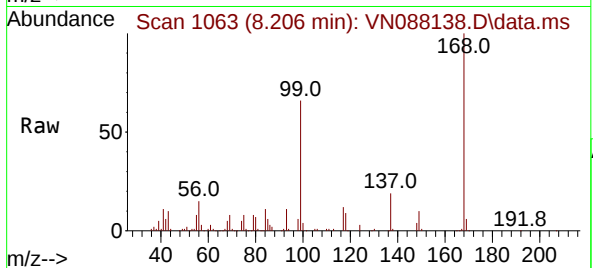
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

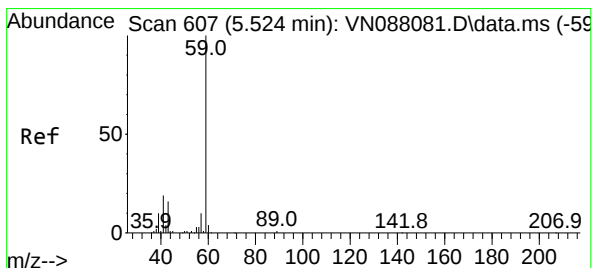
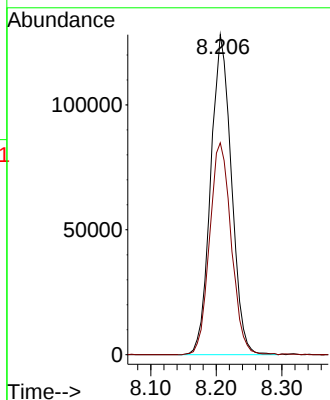
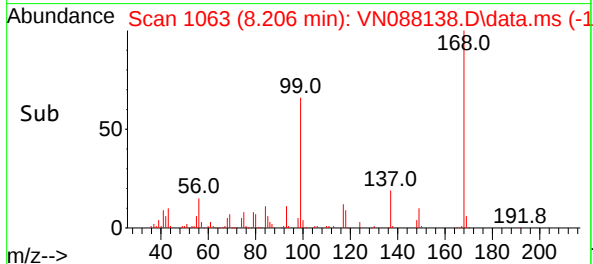
Instrument :
MSVOA_N
ClientSampleId :
MW-08



Tgt Ion:168 Resp: 280779
Ion Ratio Lower Upper
168 100
99 66.2 57.2 85.8

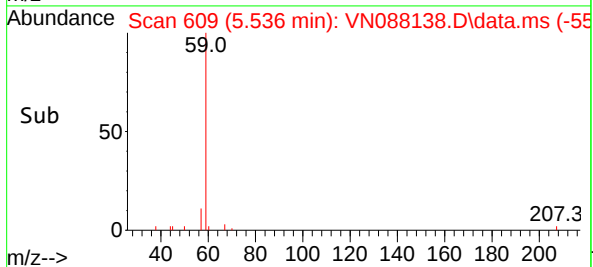
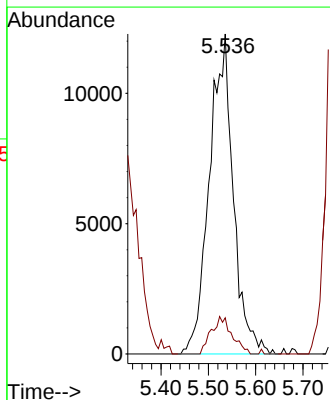
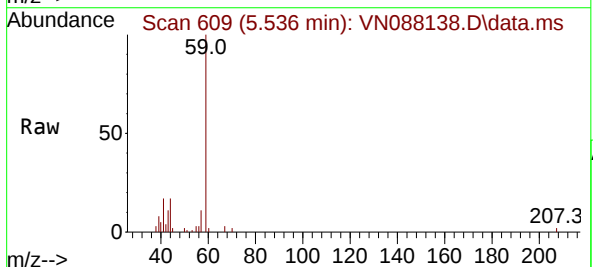
Manual Integrations
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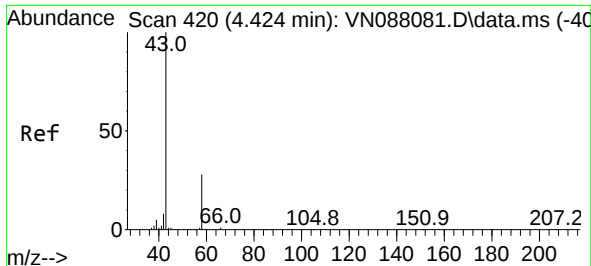
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#11
Tert butyl alcohol
Concen: 51.482 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.018 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

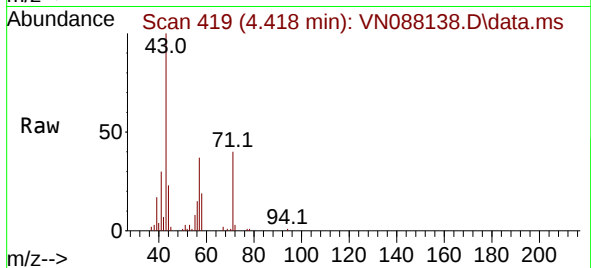
Tgt Ion: 59 Resp: 43062
Ion Ratio Lower Upper
59 100
57 10.1 9.0 13.4





#16
Acetone
Concen: 26.433 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

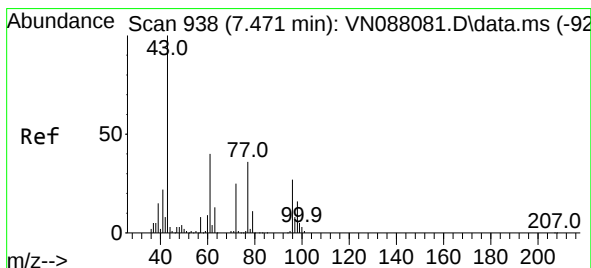
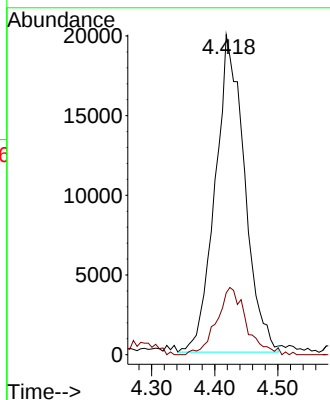
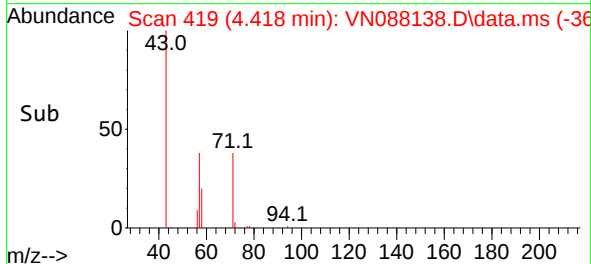
Instrument :
MSVOA_N
ClientSampleId :
MW-08



Tgt Ion: 43 Resp: 64470
Ion Ratio Lower Upper
43 100
58 19.5 22.6 33.8

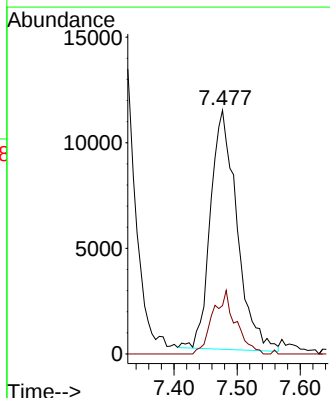
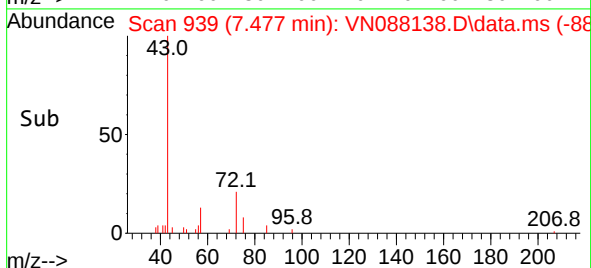
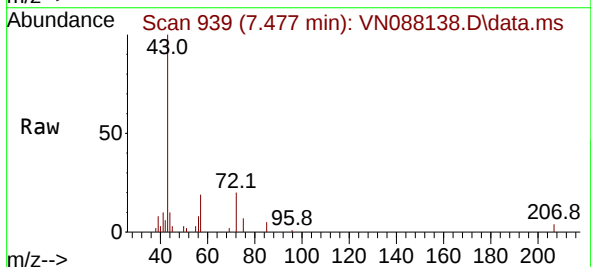
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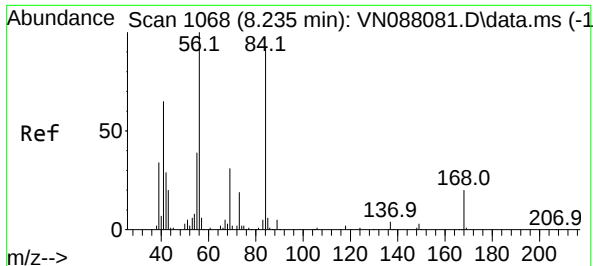
Reviewed By :John Carlone 10/29/2025
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#25
2-Butanone
Concen: 10.292 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

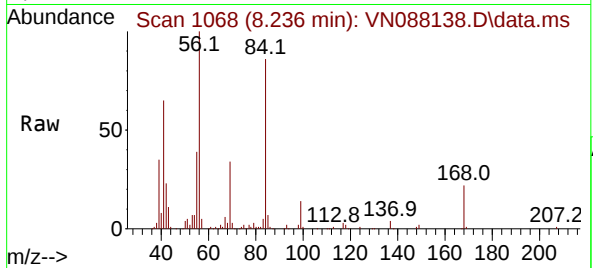
Tgt Ion: 43 Resp: 33085
Ion Ratio Lower Upper
43 100
72 20.4 19.9 29.9





#31
Cyclohexane
Concen: 39.662 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

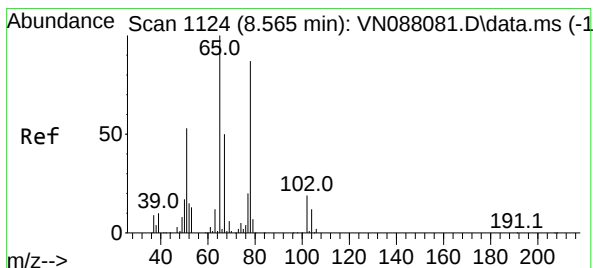
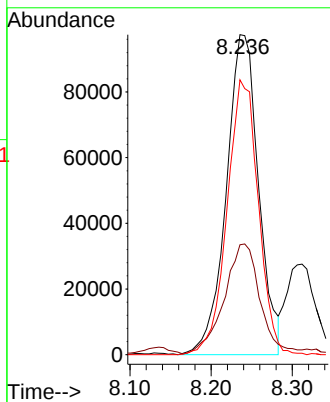
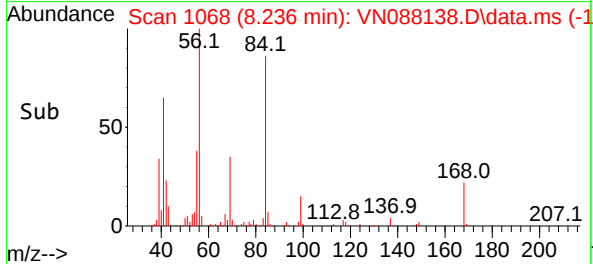
Instrument :
MSVOA_N
ClientSampleId :
MW-08



Tgt Ion: 56 Resp: 26955
Ion Ratio Lower Upper
56 100
69 33.5 23.7 35.5
84 85.9 64.7 97.1

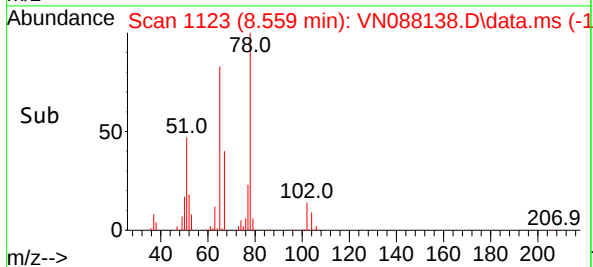
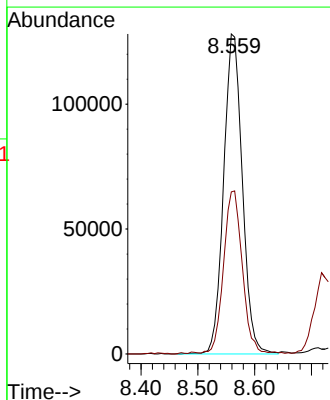
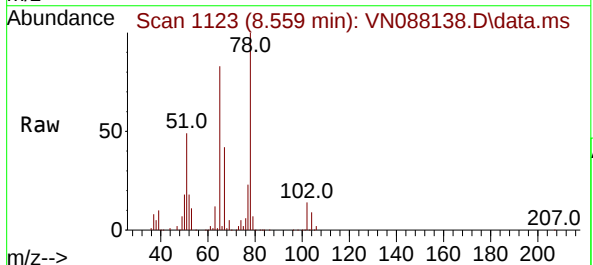
Manual Integrations
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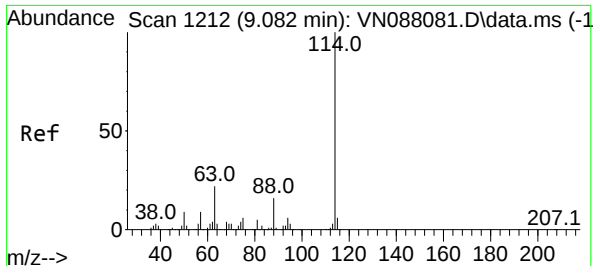
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#33
1,2-Dichloroethane-d4
Concen: 60.441 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

Tgt Ion: 65 Resp: 293459
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

MW-08

Tgt Ion:114 Resp: 63684

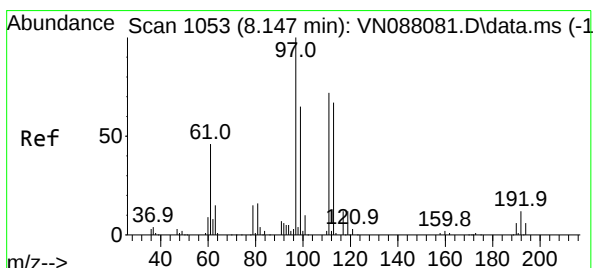
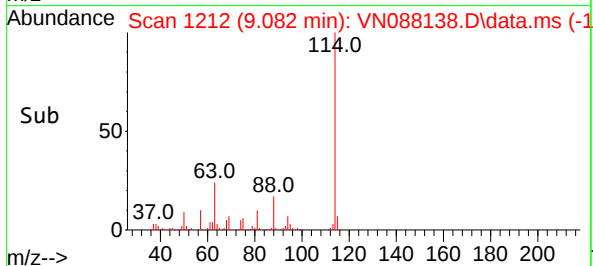
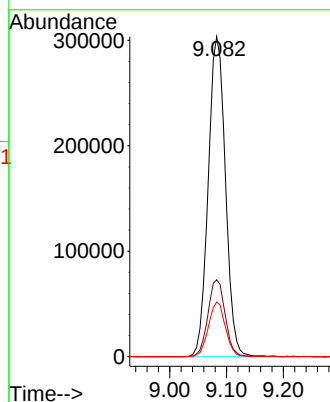
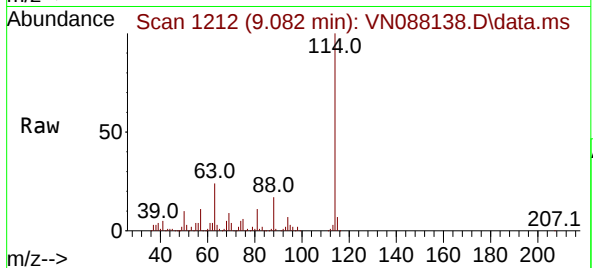
Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	45.2
88	17.0	0.0	33.4

Manual Integrations

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Supervised By :Semsettin Yesilyurt 10/29/2025



#35

Dibromofluoromethane

Concen: 48.334 ug/l

RT: 8.147 min Scan# 1053

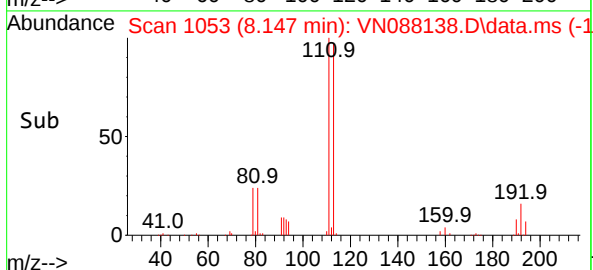
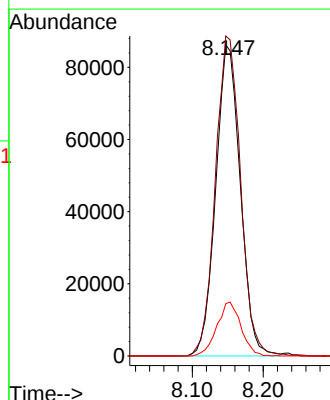
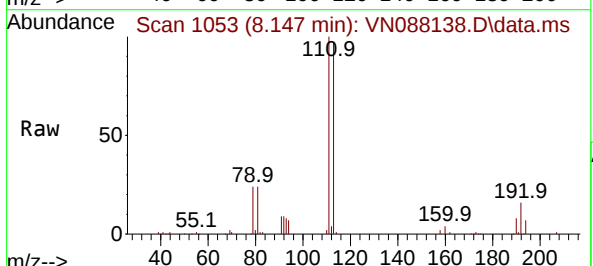
Delta R.T. -0.006 min

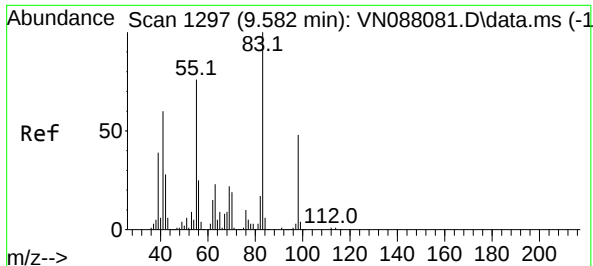
Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Tgt Ion:113 Resp: 206787

Ion	Ratio	Lower	Upper
113	100		
111	105.1	82.8	124.2
192	17.0	12.8	19.2





#39

Methylcyclohexane

Concen: 21.025 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

MW-08

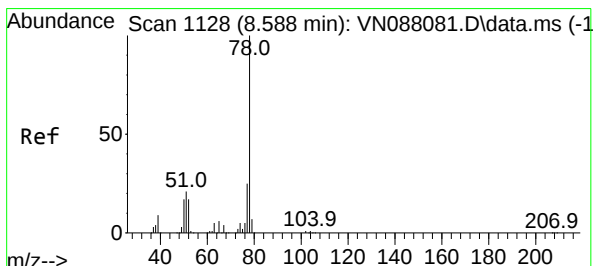
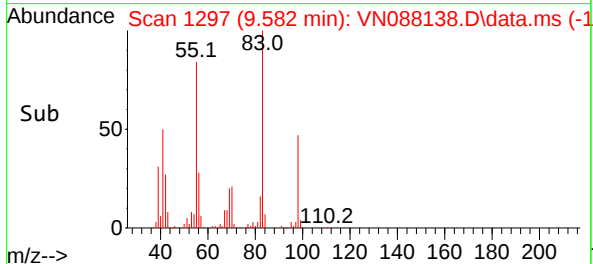
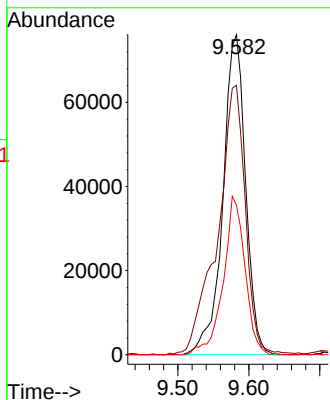
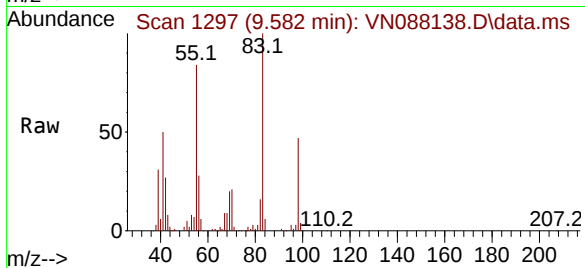
Tgt Ion: 83 Resp: 168825
 Ion Ratio Lower Upper
 83 100
 55 83.5 64.6 96.8
 98 46.7 38.4 57.6

Manual Integrations

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#40

Benzene

Concen: 123.016 ug/l

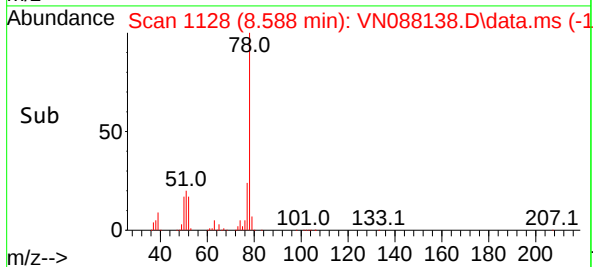
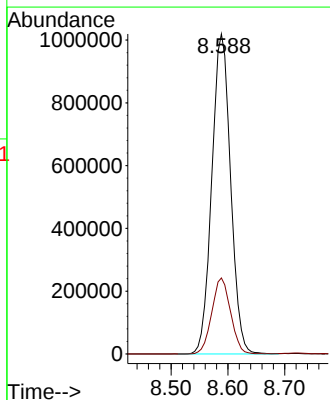
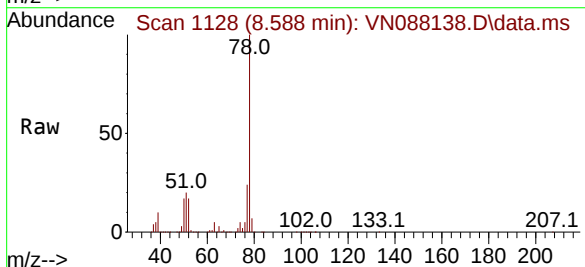
RT: 8.588 min Scan# 1128

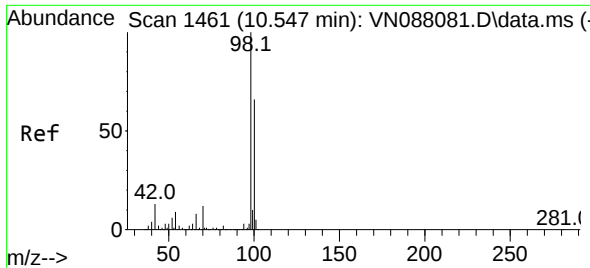
Delta R.T. -0.000 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

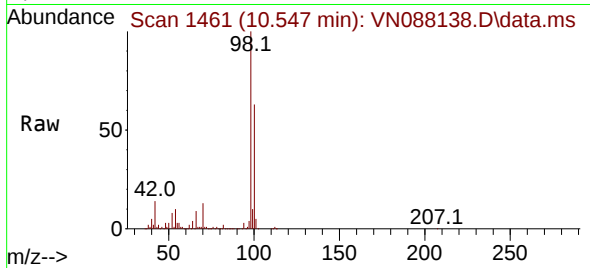
Tgt Ion: 78 Resp: 2340324
 Ion Ratio Lower Upper
 78 100
 77 23.7 19.7 29.5





#50
Toluene-d8
Concen: 46.715 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

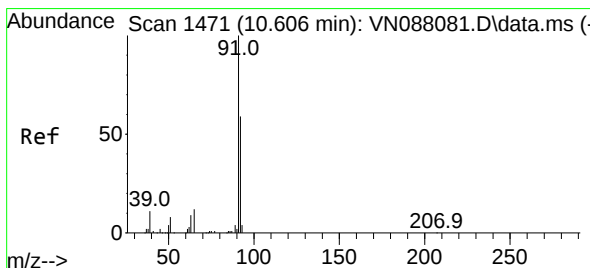
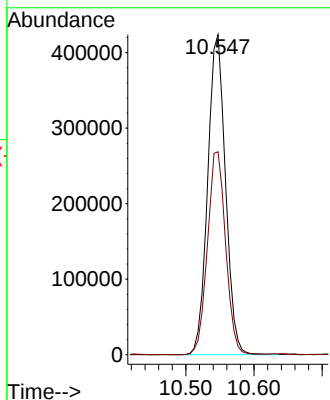
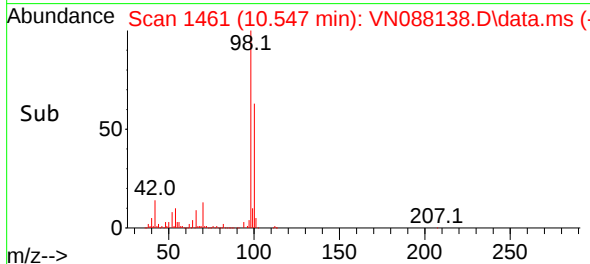
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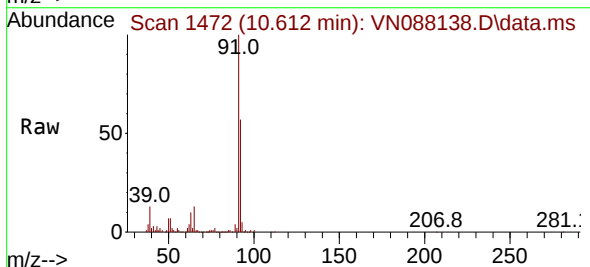
Tgt Ion: 98 Resp: 77010
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2

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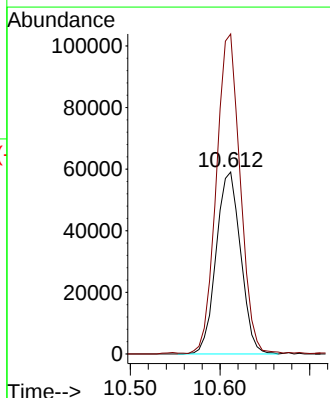
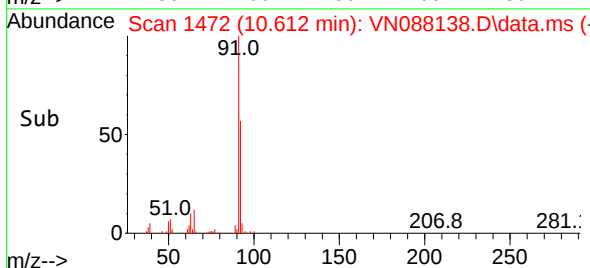
Reviewed By :John Carlone 10/29/2025
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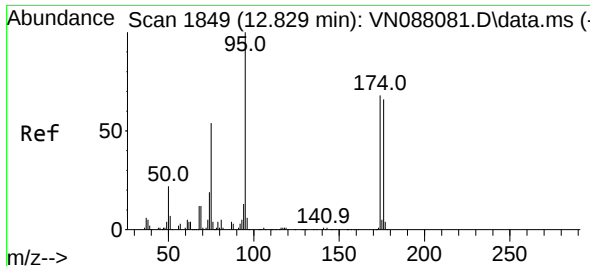


#52
Toluene
Concen: 9.544 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40



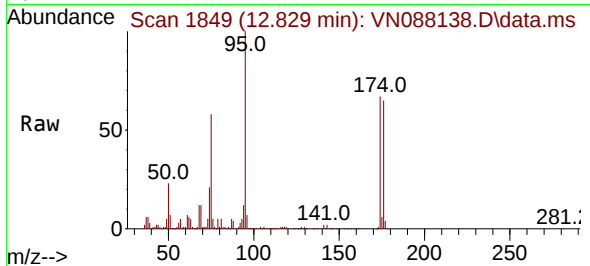
Tgt Ion: 92 Resp: 111950
Ion Ratio Lower Upper
92 100
91 171.2 140.4 210.6





#62
4-Bromofluorobenzene
Concen: 55.386 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

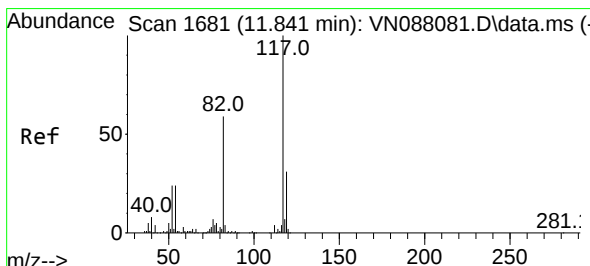
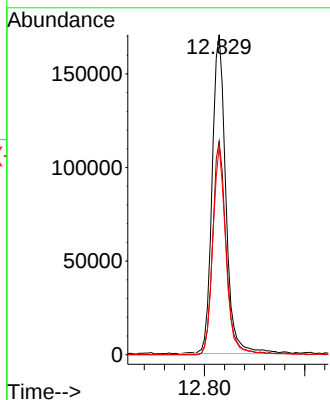
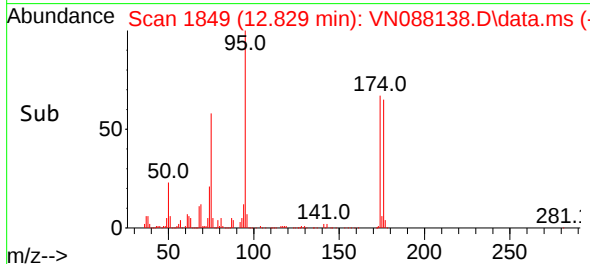
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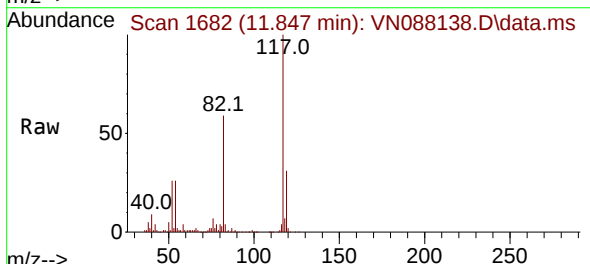
Tgt Ion: 95 Resp: 322452
Ion Ratio Lower Upper
95 100
174 66.2 0.0 138.4
176 62.6 0.0 132.6

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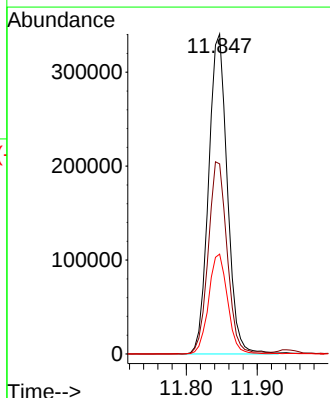
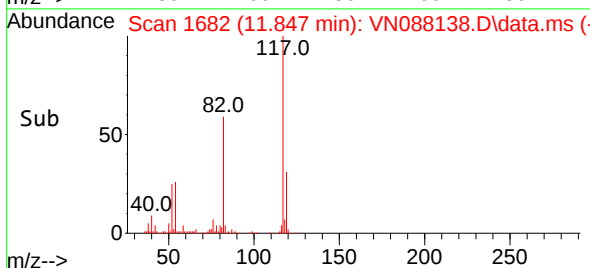
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025

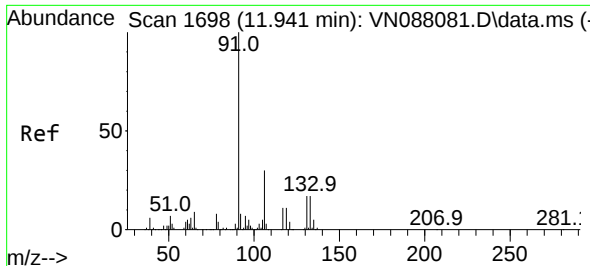


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40



Tgt Ion:117 Resp: 622260
Ion Ratio Lower Upper
117 100
82 59.3 47.4 71.2
119 31.2 24.3 36.5





#67

Ethyl Benzene

Concen: 100.790 ug/l

RT: 11.941 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

MW-08

Tgt Ion: 91 Resp: 249978

Ion Ratio Lower Upper

91 100

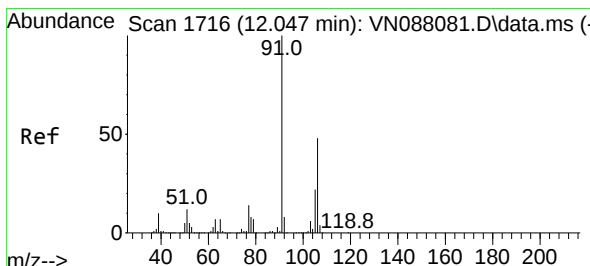
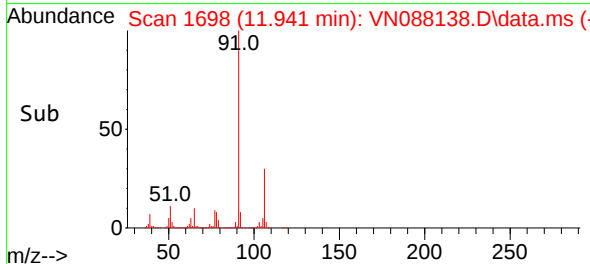
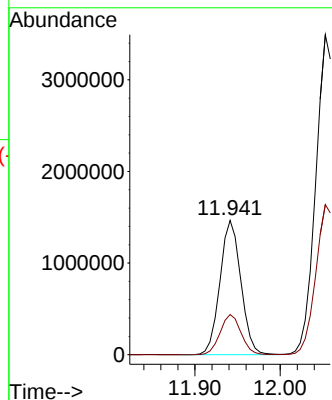
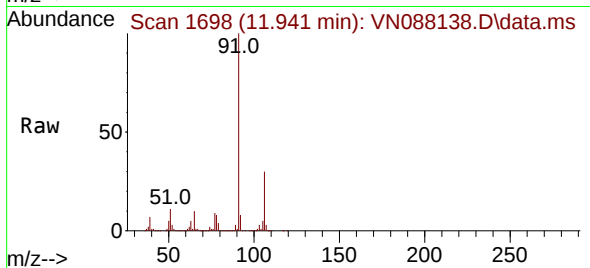
106 30.0 24.1 36.1

Manual Integrations

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Reviewed By :John Carlone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#68

m/p-Xylenes

Concen: 309.563 ug/l

RT: 12.053 min Scan# 1717

Delta R.T. 0.006 min

Lab File: VN088138.D

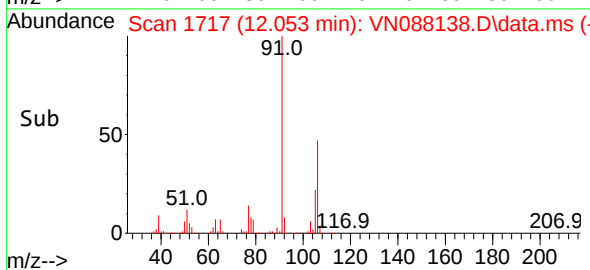
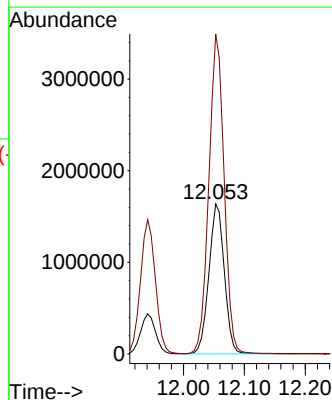
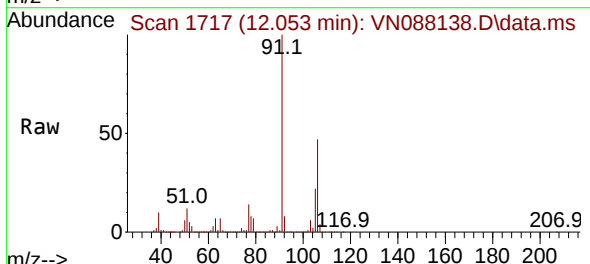
Acq: 28 Oct 2025 14:40

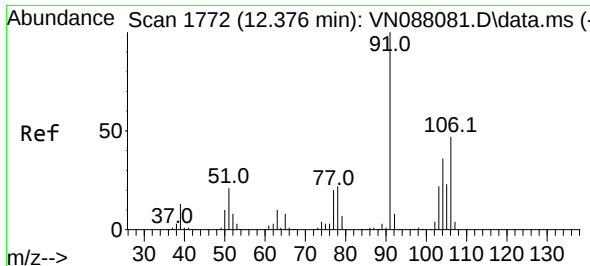
Tgt Ion:106 Resp: 2876708

Ion Ratio Lower Upper

106 100

91 211.1 169.3 253.9





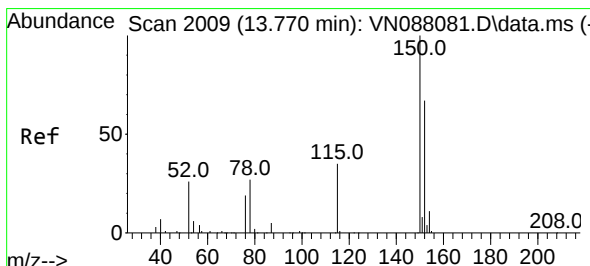
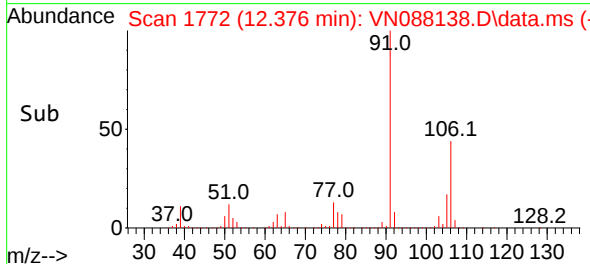
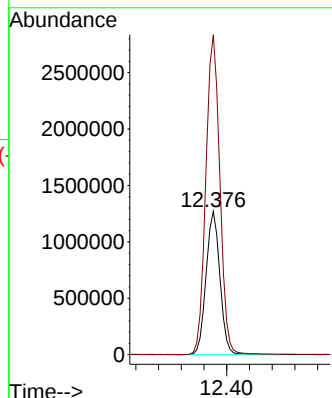
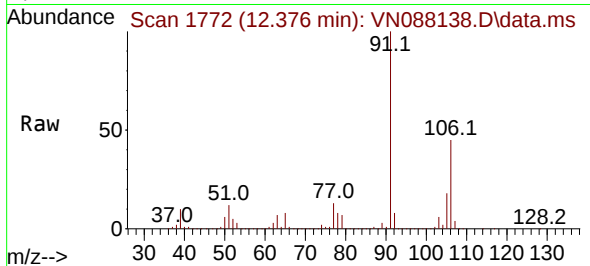
#69
o-Xylene
Concen: 242.808 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
MW-08

Tgt Ion:106 Resp: 2138954
Ion Ratio Lower Upper
106 100
91 226.6 111.4 334.2

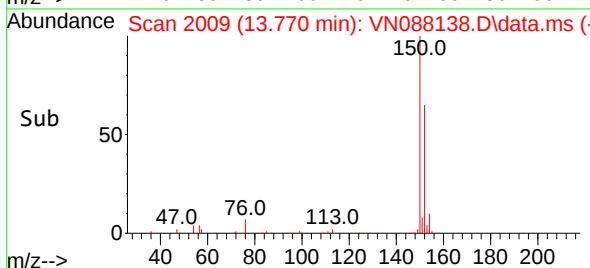
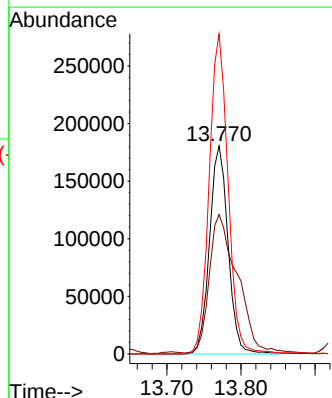
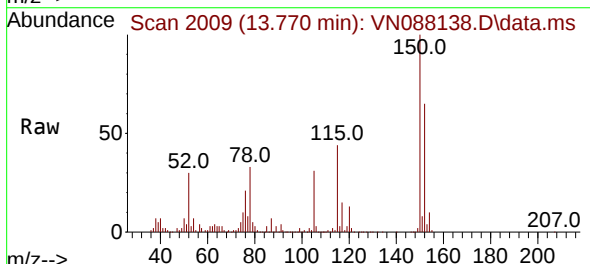
Manual Integrations
APPROVED

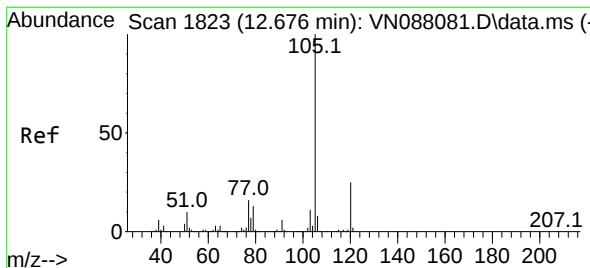
Reviewed By :John Carlone 10/29/2025
Supervised By :Semsettin Yesilyurt 10/29/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088138.D
Acq: 28 Oct 2025 14:40

Tgt Ion:152 Resp: 313348
Ion Ratio Lower Upper
152 100
115 100.4 32.3 96.8#
150 156.8 0.0 351.0





#73

Isopropylbenzene

Concen: 10.621 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

MW-08

Tgt Ion:105 Resp: 256674

Ion Ratio Lower Upper

105 100

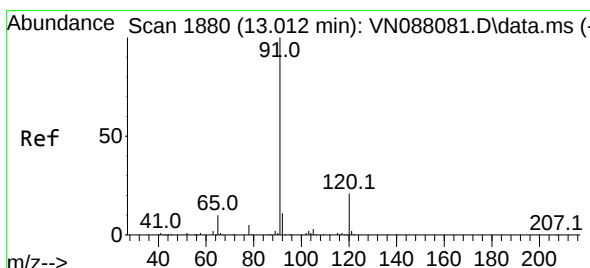
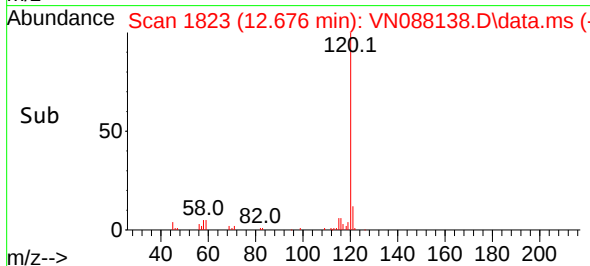
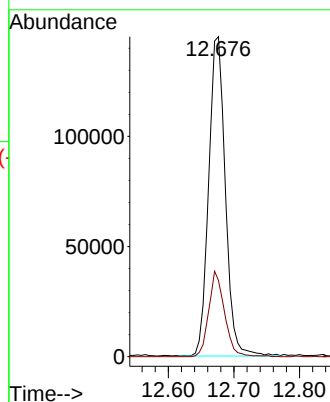
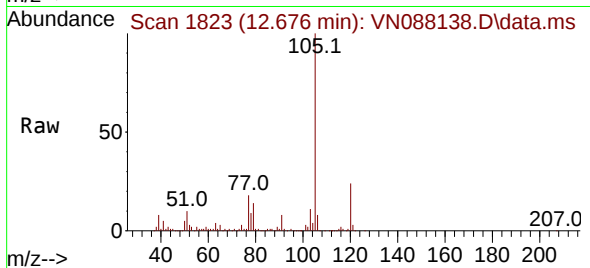
120 25.5 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#78

n-propylbenzene

Concen: 16.880 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VN088138.D

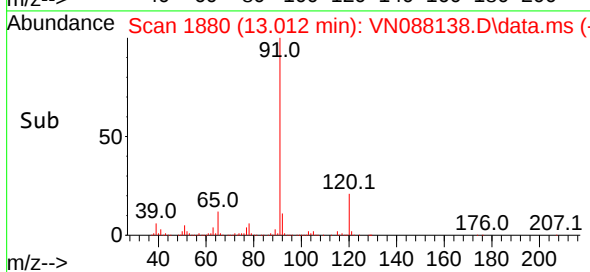
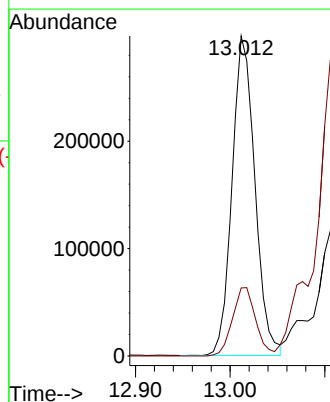
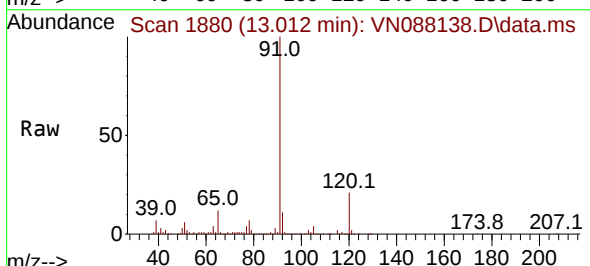
Acq: 28 Oct 2025 14:40

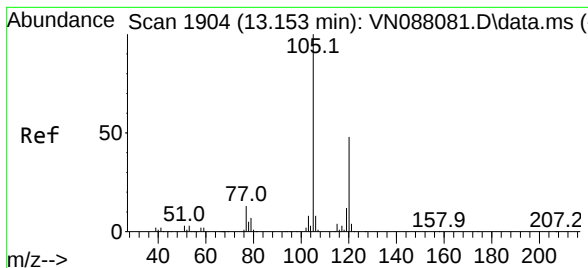
Tgt Ion: 91 Resp: 497843

Ion Ratio Lower Upper

91 100

120 21.8 10.7 32.1





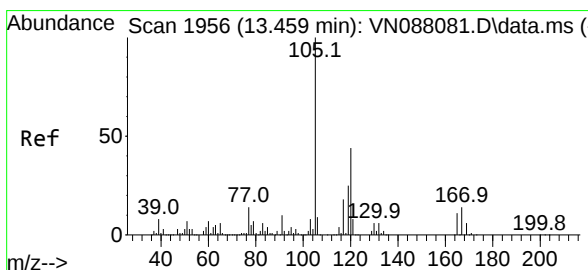
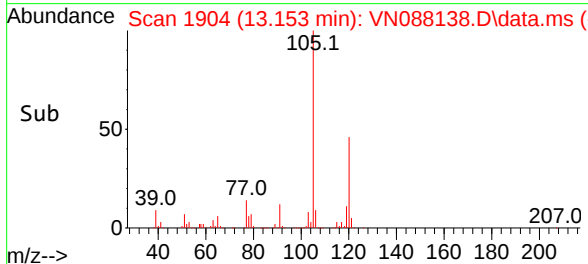
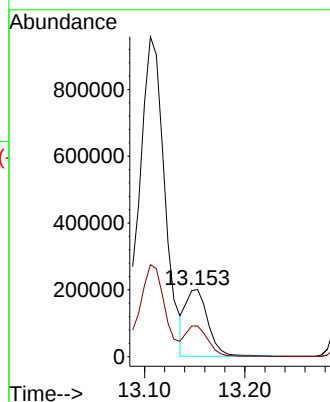
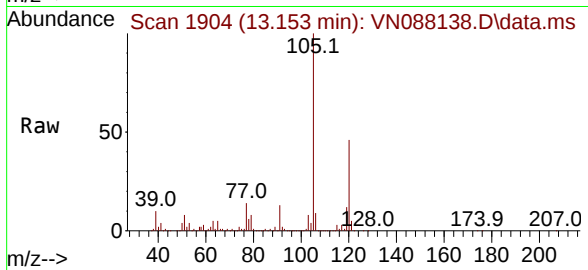
#80
 1,3,5-Trimethylbenzene
 Concen: 15.404 ug/l
 RT: 13.153 min Scan# 1904
 Delta R.T. -0.000 min
 Lab File: VN088138.D
 Acq: 28 Oct 2025 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08

Tgt Ion:105 Resp: 309175
 Ion Ratio Lower Upper
 105 100
 120 46.5 23.2 69.6

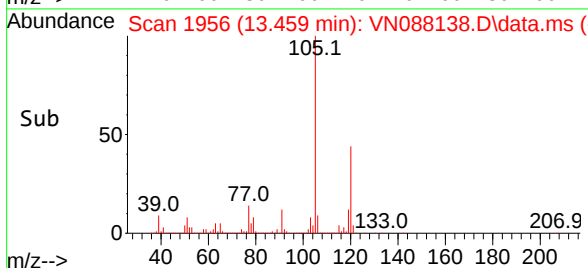
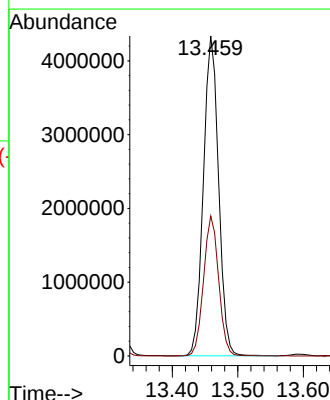
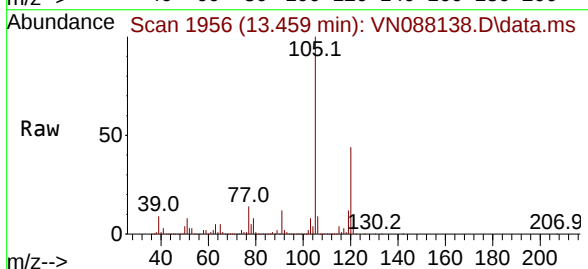
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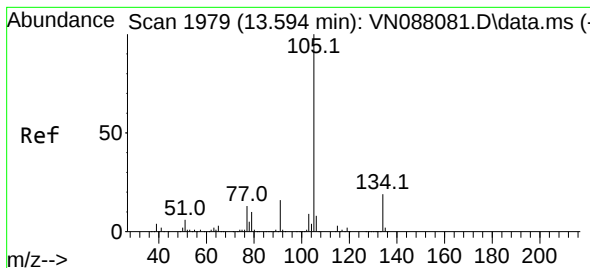
Reviewed By :John Carlone 10/29/2025
 Supervised By :Semsettin Yesilyurt 10/29/2025



#84
 1,2,4-Trimethylbenzene
 Concen: 348.461 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VN088138.D
 Acq: 28 Oct 2025 14:40

Tgt Ion:105 Resp: 6997704
 Ion Ratio Lower Upper
 105 100
 120 43.4 22.0 66.0





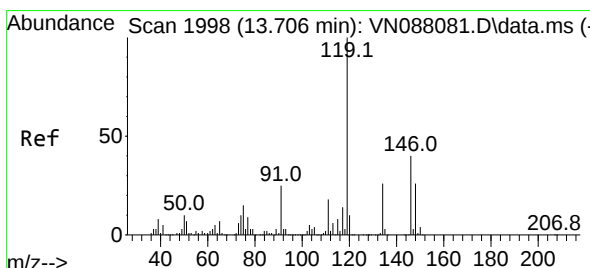
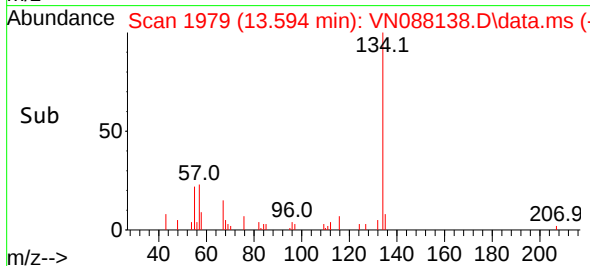
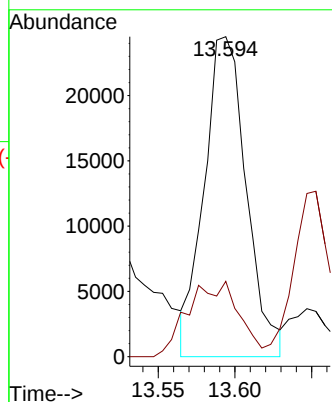
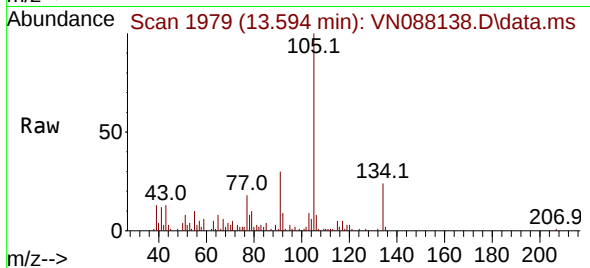
#85
 sec-Butylbenzene
 Concen: 1.778 ug/l m
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN088138.D
 Acq: 28 Oct 2025 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-08

Tgt Ion:105 Resp: 46820
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.6 28.6

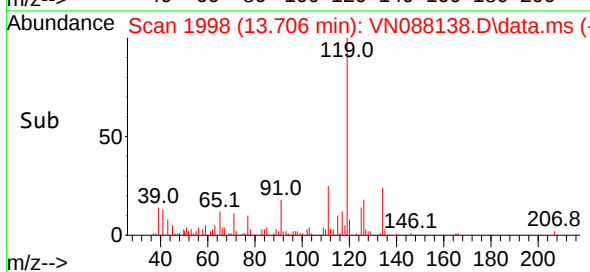
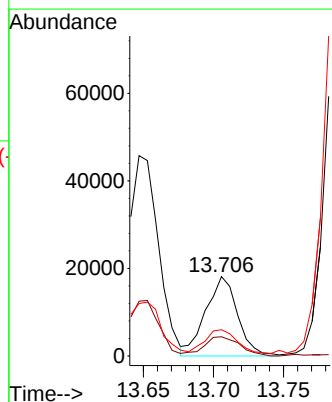
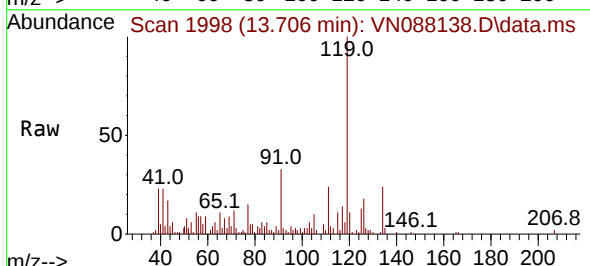
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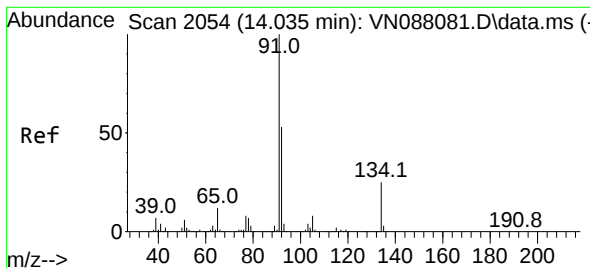
Reviewed By :John Carlone 10/29/2025
 Supervised By :Semsettin Yesilyurt 10/29/2025



#86
 p-Isopropyltoluene
 Concen: 1.362 ug/l m
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN088138.D
 Acq: 28 Oct 2025 14:40

Tgt Ion:119 Resp: 28773
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.7 38.0#
 91 0.0 12.5 37.5#





#89

n-Butylbenzene

Concen: 2.472 ug/l m

RT: 14.012 min Scan# 2054

Delta R.T. -0.018 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

MW-08

Tgt Ion: 91 Resp: 51740

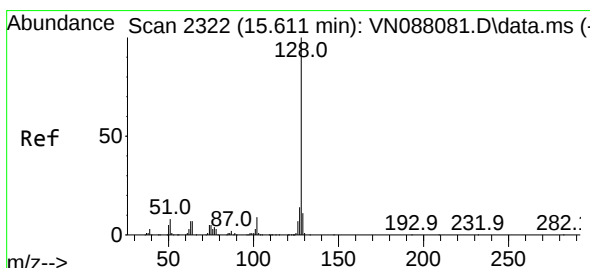
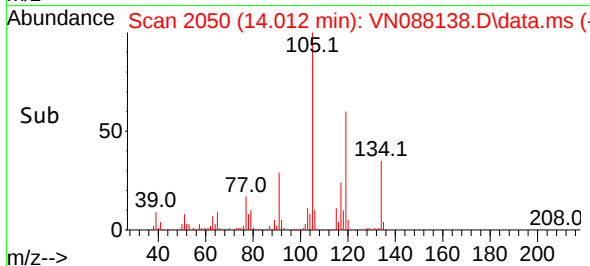
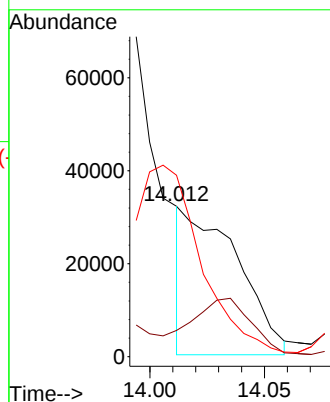
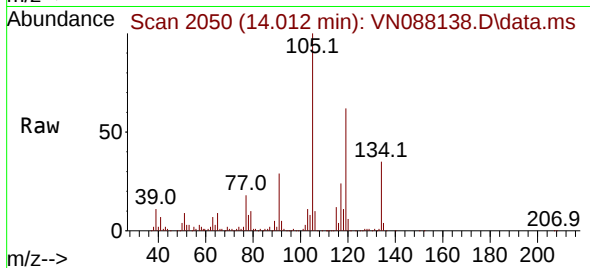
Ion	Ratio	Lower	Upper
91	100		
92	176.4	25.9	77.8
134	0.0	11.7	35.0

Manual Integrations

APPROVED

Reviewed By :John Carbone 10/29/2025

Supervised By :Semsettin Yesilyurt 10/29/2025



#95

Naphthalene

Concen: 209.807 ug/l m

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN088138.D

Acq: 28 Oct 2025 14:40

Tgt Ion:128 Resp: 4365299

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8
129	0.0	8.6	12.8

