

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087325.D
 Acq On : 10 Jul 2025 14:54
 Operator : JC\MD
 Sample : Q2554-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250709071-01 VOARE

Quant Time: Jul 11 01:11:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2025
 Supervised By :Mahesh Dadoda 07/14/2025

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

Internal Standards						
1) Bromochloromethane	7.824	128	45487	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	218252	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	202986	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	89385	26.081	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	86.933%#		
60) 4-Bromofluorobenzene	12.847	95	92385	29.494	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.300%		
63) Toluene-d8	10.565	98	253012	27.761	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	92.533%		
Target Compounds					Qvalue	
8) Diethyl Ether	3.989	74	7057	3.853	ug/l	96
12) Methyl Acetate	5.053	43	12290m	2.844	ug/l	
15) Acetone	4.442	58	572336	973.251	ug/l	91
23) tert-Butyl Alcohol	5.530	59	3121269	4116.840	ug/l #	100
24) Methyl tert-Butyl Ether	5.824	73	15286m	1.582	ug/l	
30) 2-Butanone	7.488	43	2856568	1244.865	ug/l	93
34) Benzene	8.612	78	53882	5.000	ug/l	95
45) 1,4-Dioxane	9.706	88	4531	99.244	ug/l #	82
58) 4-Methyl-2-Pentanone	10.453	43	30787	7.544	ug/l	91
62) Toluene	10.629	91	83890	7.317	ug/l	100
64) Chlorobenzene	11.894	112	11859	1.622	ug/l	97
66) Ethyl Benzene	11.965	91	99841	7.957	ug/l	96
67) m/p-Xylenes	12.070	106	41647	8.661	ug/l	94
68) o-Xylene	12.394	106	23170	5.051	ug/l	99
70) Isopropylbenzene	12.694	105	18163	1.590	ug/l	98
74) n-propylbenzene	13.035	91	8814	0.631	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	30972	3.316	ug/l	99
82) p-Isopropyltoluene	13.723	119	48841	5.164	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	24736	4.605	ug/l	97
91) Naphthalene	15.635	128	509087	45.433	ug/l	100

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

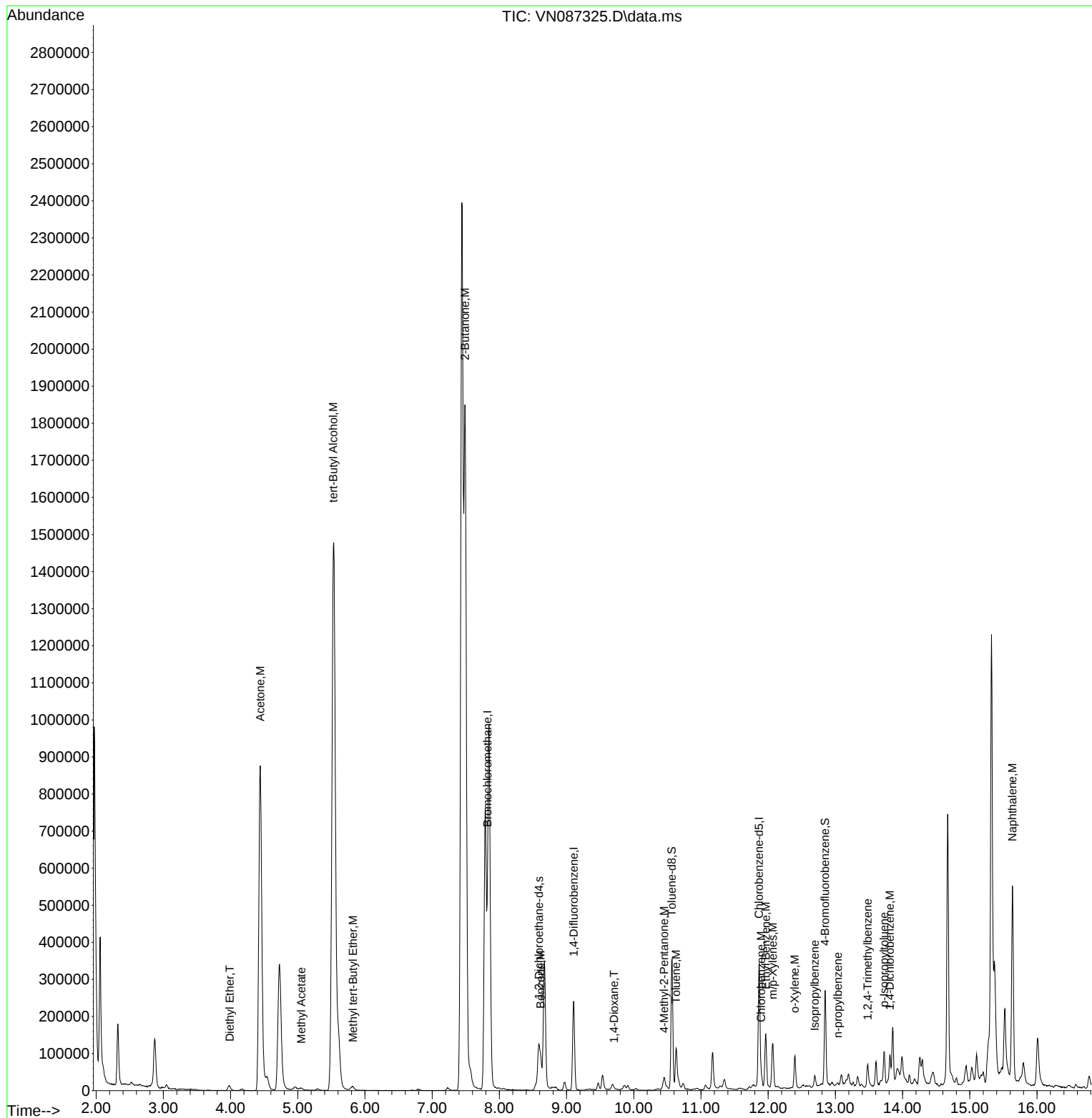
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087325.D
Acq On : 10 Jul 2025 14:54
Operator : JC\MD
Sample : Q2554-01RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

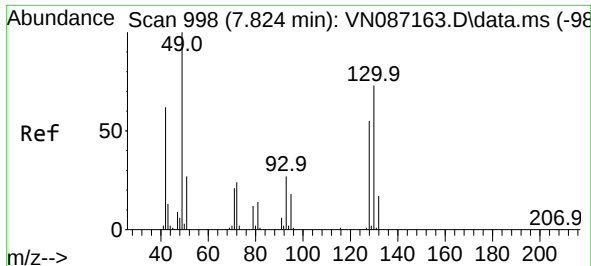
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE

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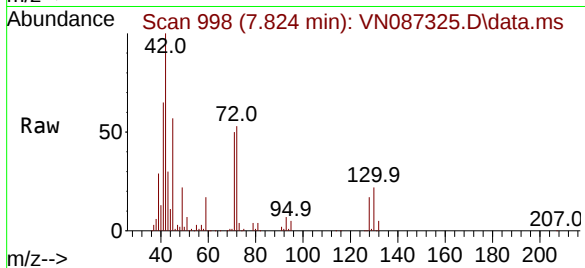
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

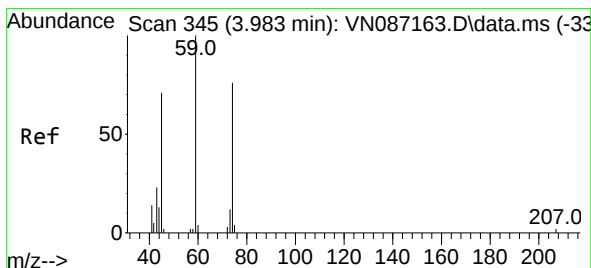
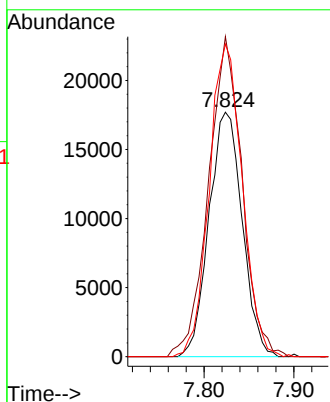
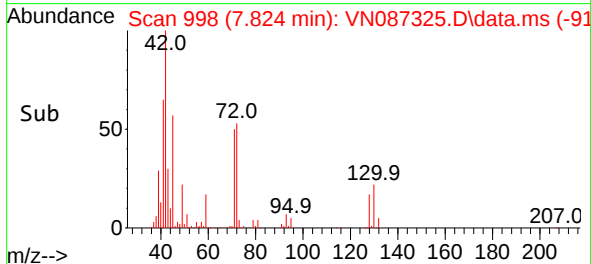
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



Tgt Ion:128 Resp: 4548
Ion Ratio Lower Upper
128 100
49 131.6 0.0 450.5
130 127.1 0.0 320.7

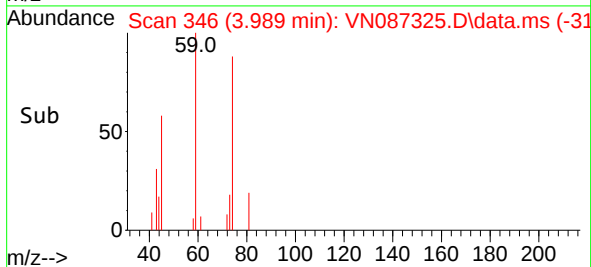
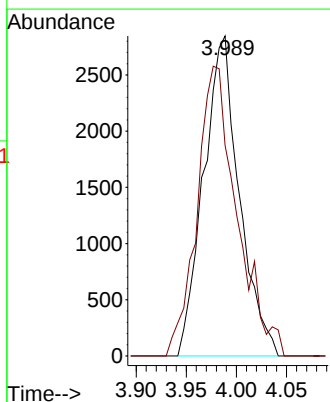
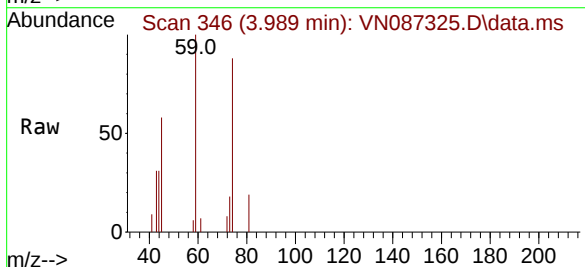
Manual Integrations
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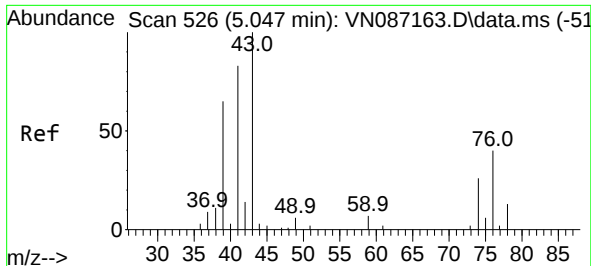
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#8
Diethyl Ether
Concen: 3.853 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

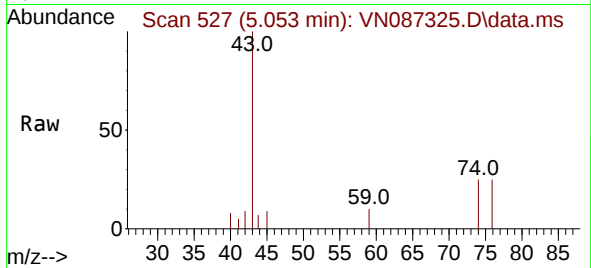
Tgt Ion: 74 Resp: 7057
Ion Ratio Lower Upper
74 100
45 98.5 19.0 171.0





#12
Methyl Acetate
Concen: 2.844 ug/l m
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

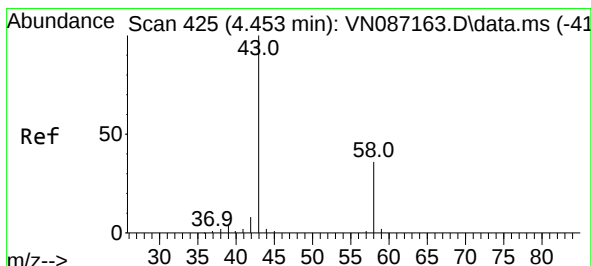
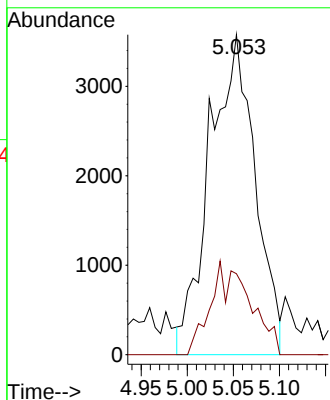
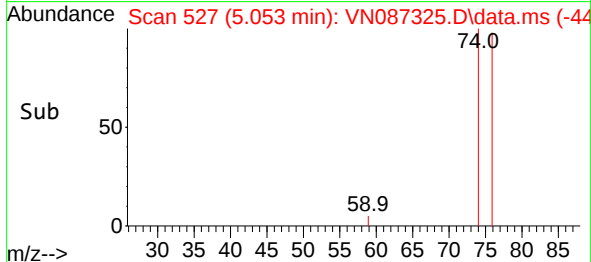
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



Tgt Ion: 43 Resp: 12290
Ion Ratio Lower Upper
43 100
74 25.3 20.3 30.5

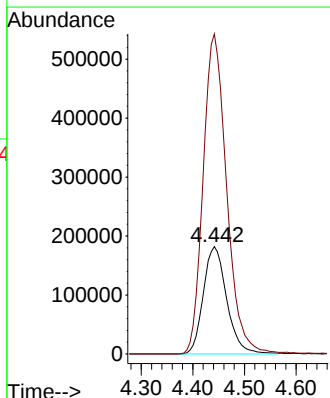
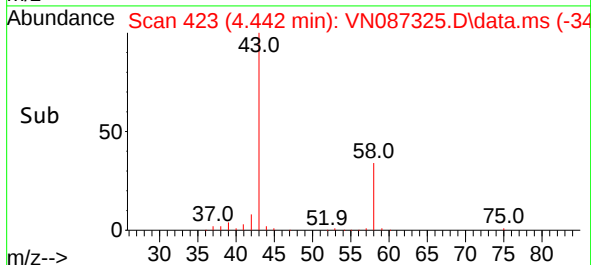
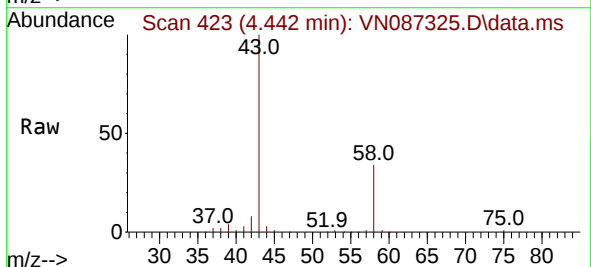
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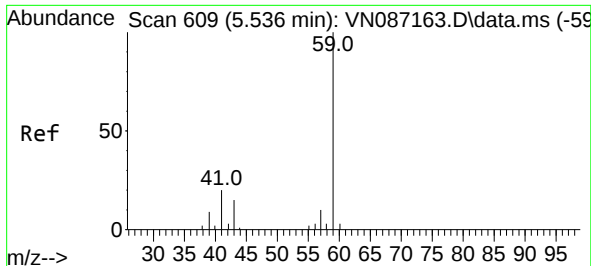
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#15
Acetone
Concen: 973.251 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.012 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

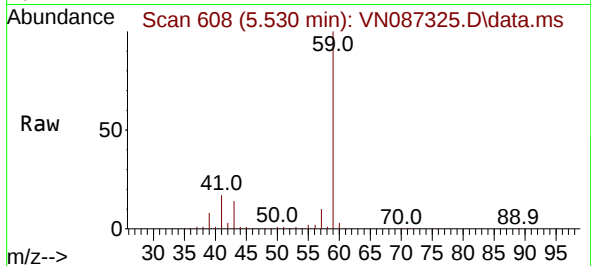
Tgt Ion: 58 Resp: 572336
Ion Ratio Lower Upper
58 100
43 298.1 224.3 336.5





#23
tert-Butyl Alcohol
Concen: 4116.840 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

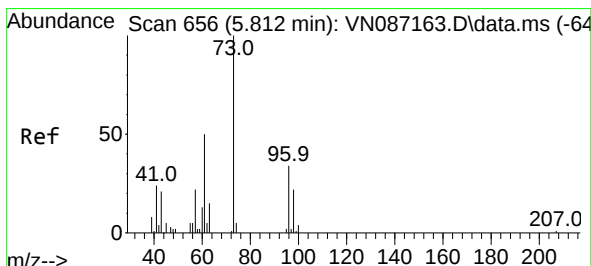
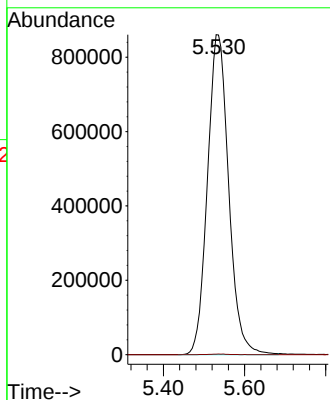
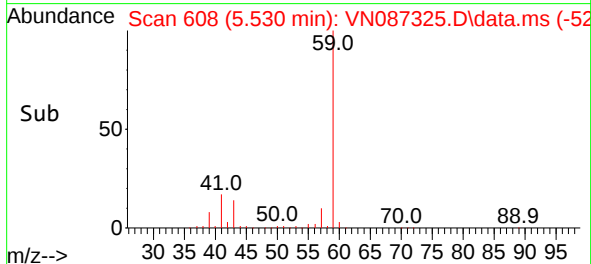
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



Tgt Ion: 59 Resp: 3121269
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0

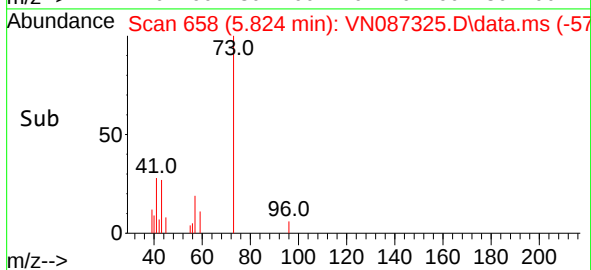
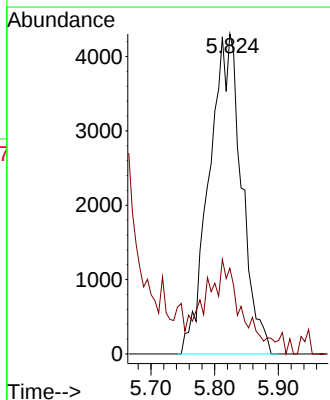
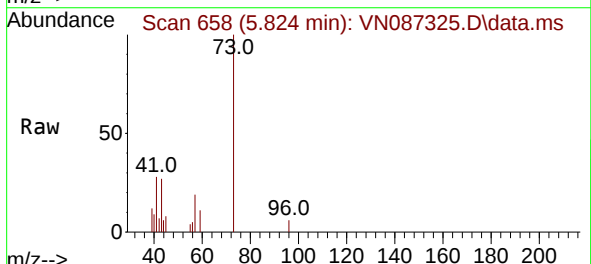
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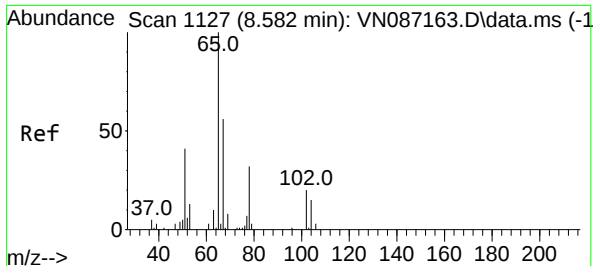
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#24
Methyl tert-Butyl Ether
Concen: 1.582 ug/l m
RT: 5.824 min Scan# 658
Delta R.T. 0.012 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

Tgt Ion: 73 Resp: 15286
Ion Ratio Lower Upper
73 100
43 1.7 16.4 24.6





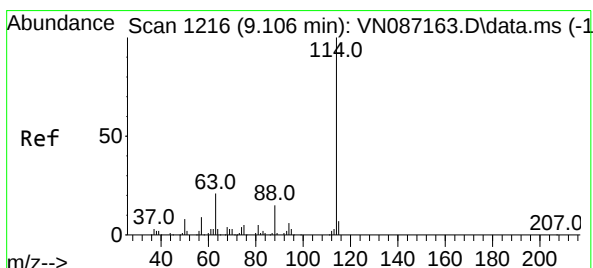
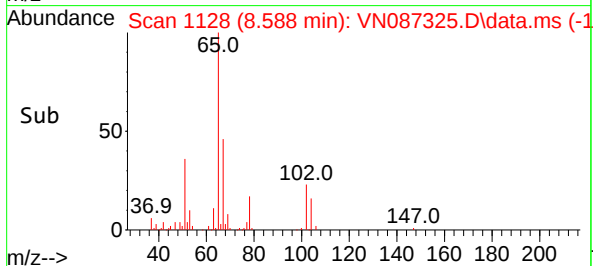
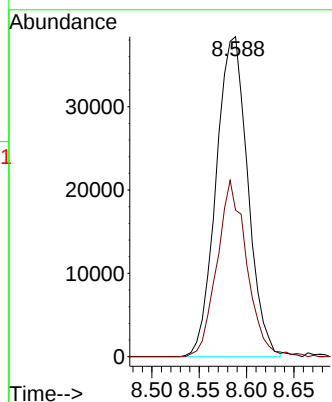
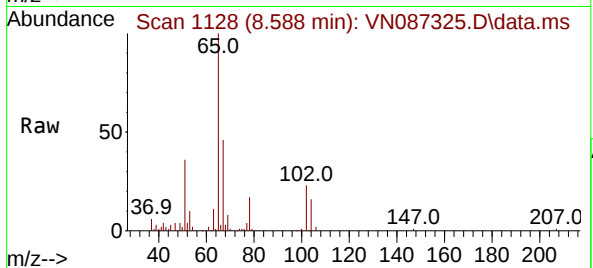
#27
1,2-Dichloroethane-d4
Concen: 26.081 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE

Tgt Ion: 65 Resp: 8938
Ion Ratio Lower Upper
65 100
67 51.2 41.9 62.9

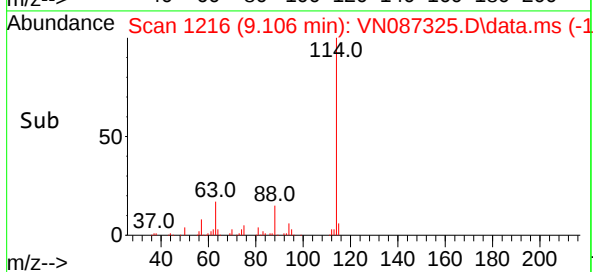
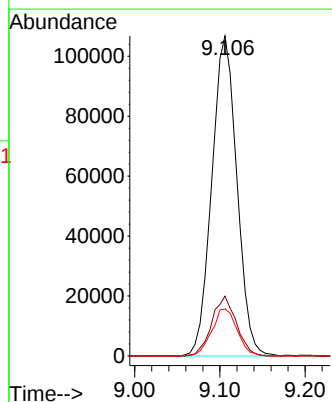
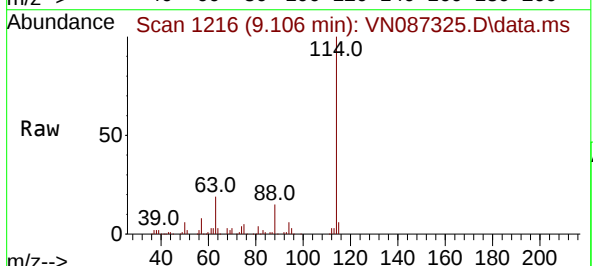
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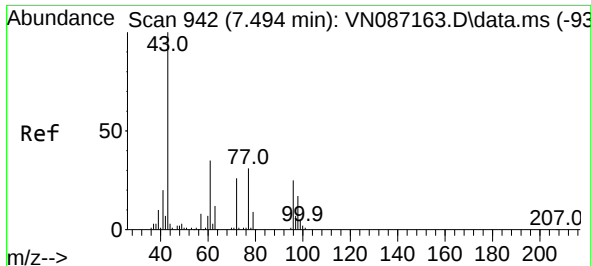
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

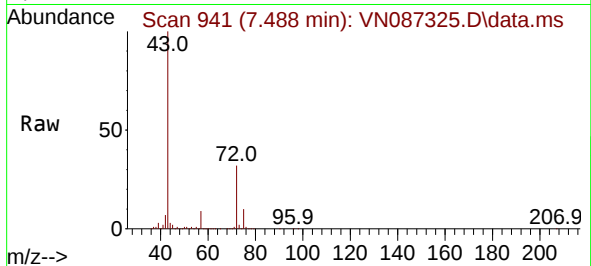
Tgt Ion:114 Resp: 218252
Ion Ratio Lower Upper
114 100
63 18.4 17.0 25.4
88 14.9 12.6 19.0





#30
2-Butanone
Concen: 1244.865 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

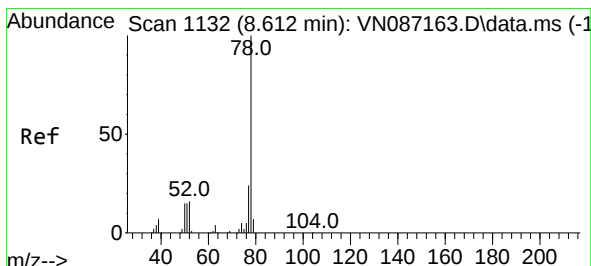
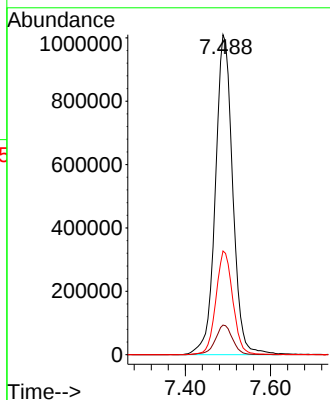
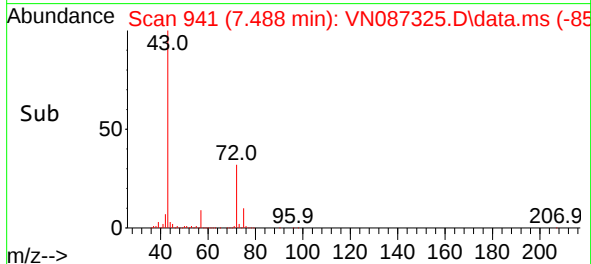
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



Tgt Ion: 43 Resp: 285656
Ion Ratio Lower Upper
43 100
57 9.2 6.3 9.5
72 31.6 21.8 32.6

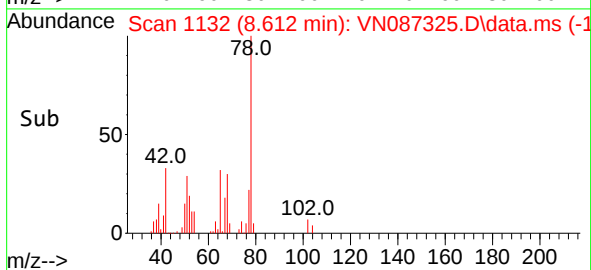
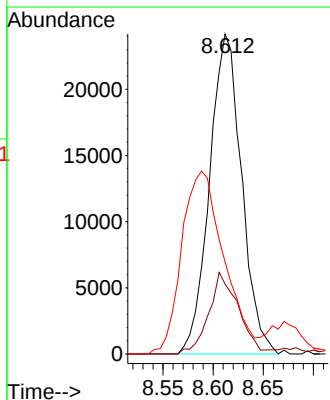
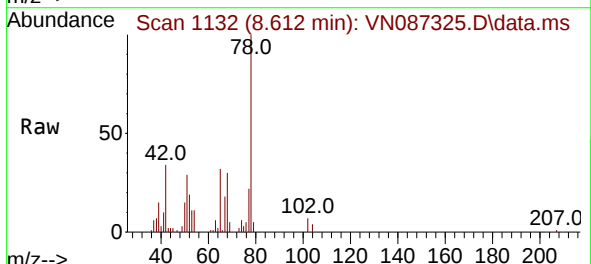
Manual Integrations
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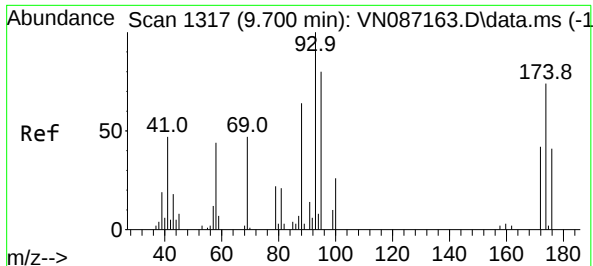
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#34
Benzene
Concen: 5.000 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

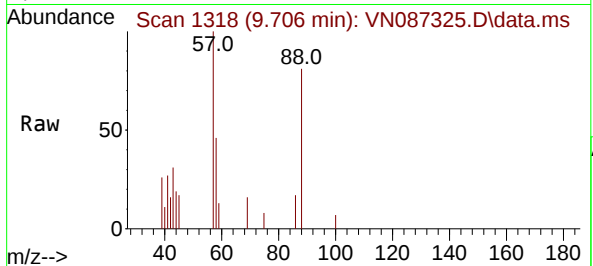
Tgt Ion: 78 Resp: 53882
Ion Ratio Lower Upper
78 100
77 21.9 19.5 29.3
51 21.0 14.8 22.2





#45
1,4-Dioxane
Concen: 99.244 ug/l
RT: 9.706 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

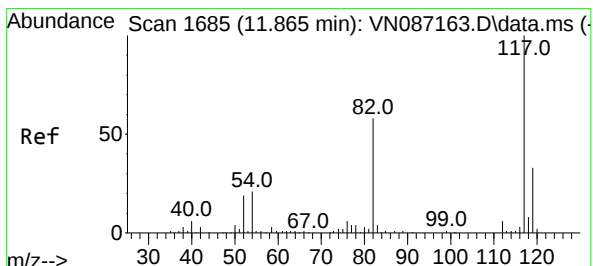
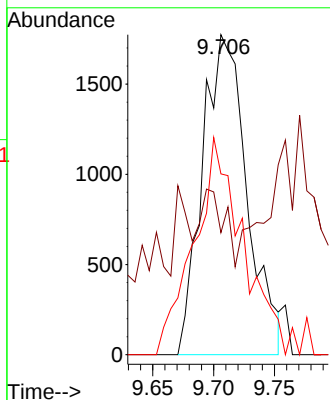
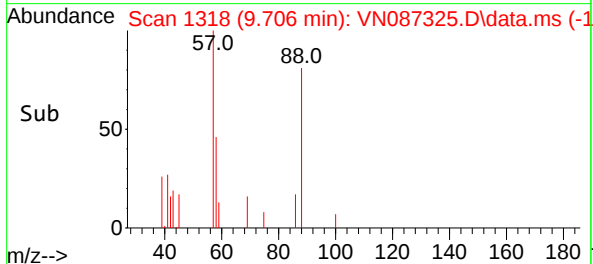
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



Tgt Ion: 88 Resp: 453
Ion Ratio Lower Upper
88 100
43 12.6 21.3 31.9
58 64.2 61.7 92.5

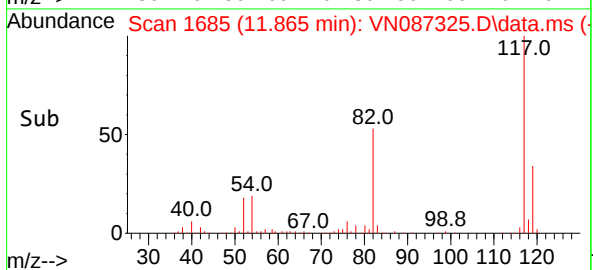
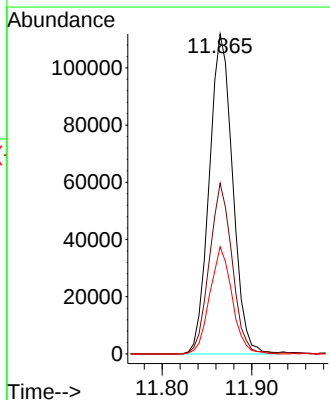
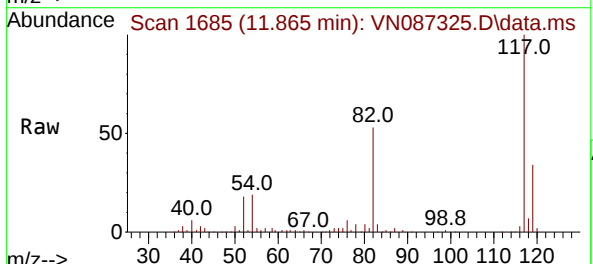
Manual Integrations
APPROVED

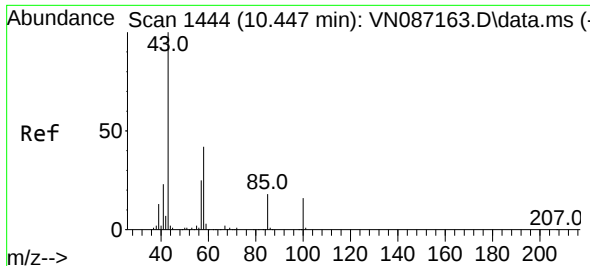
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

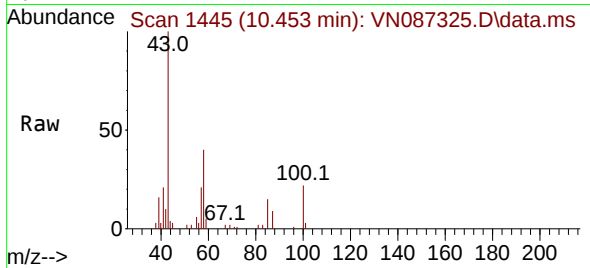
Tgt Ion:117 Resp: 202986
Ion Ratio Lower Upper
117 100
82 51.6 45.4 68.2
119 31.9 26.2 39.4





#58
4-Methyl-2-Pentanone
Concen: 7.544 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

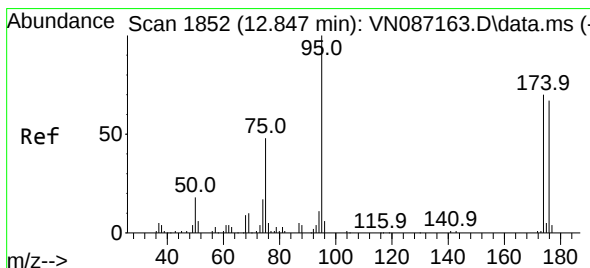
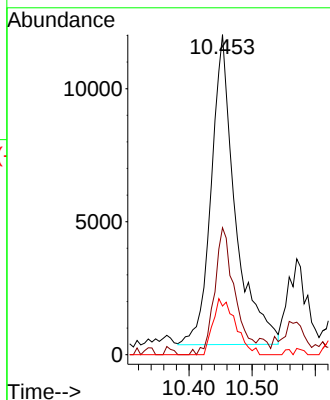
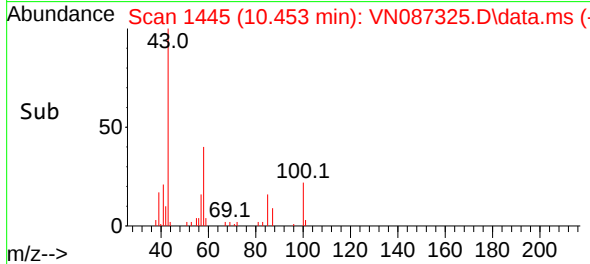
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



Tgt Ion: 43 Resp: 3078
Ion Ratio Lower Upper
43 100
58 34.2 32.6 49.0
85 16.6 14.6 22.0

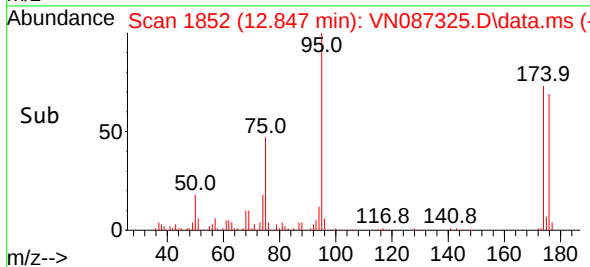
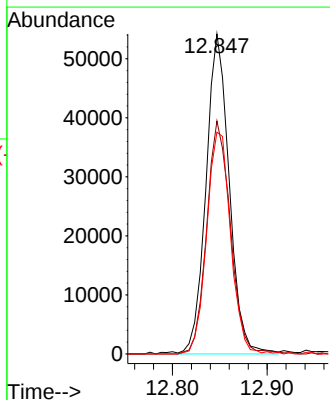
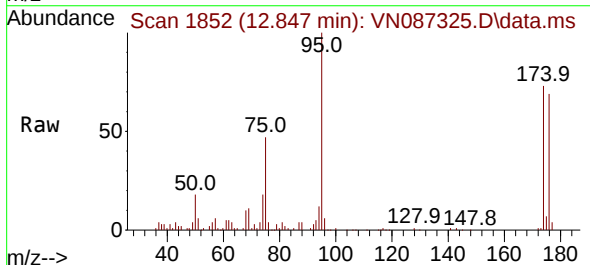
Manual Integrations
APPROVED

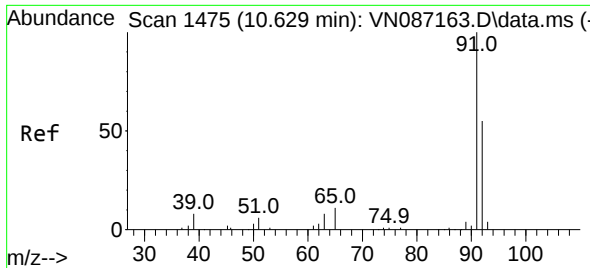
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#60
4-Bromofluorobenzene
Concen: 29.494 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

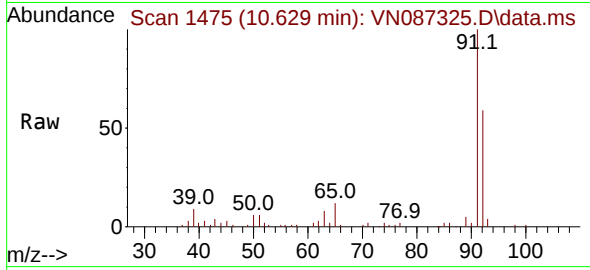
Tgt Ion: 95 Resp: 92385
Ion Ratio Lower Upper
95 100
174 74.0 54.5 81.7
176 71.0 51.9 77.9





#62
Toluene
Concen: 7.317 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

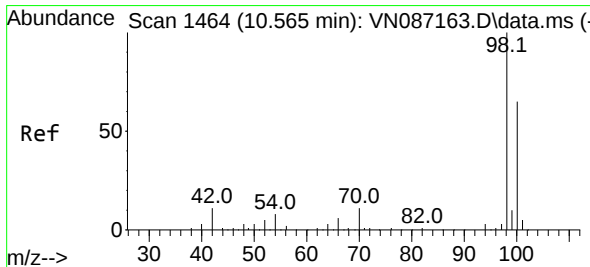
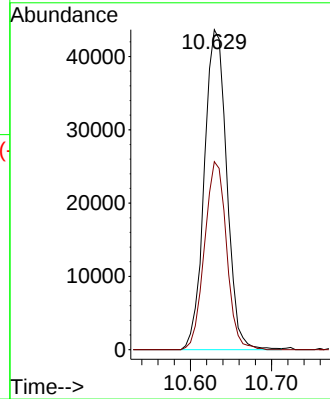
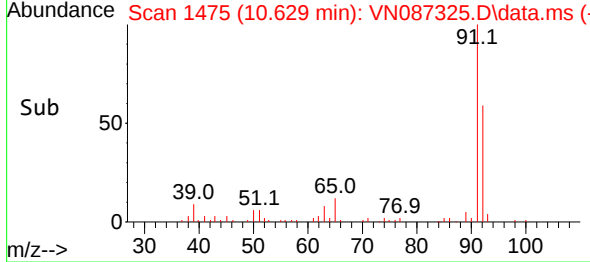
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



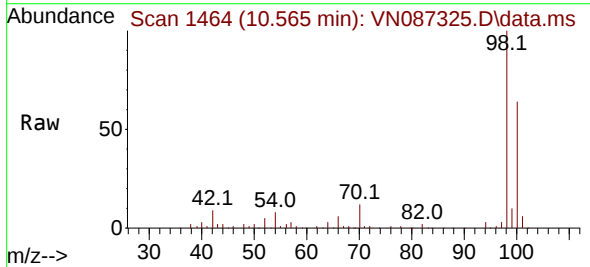
Tgt Ion: 91 Resp: 83890
Ion Ratio Lower Upper
91 100
92 57.6 45.8 68.8

Manual Integrations
APPROVED

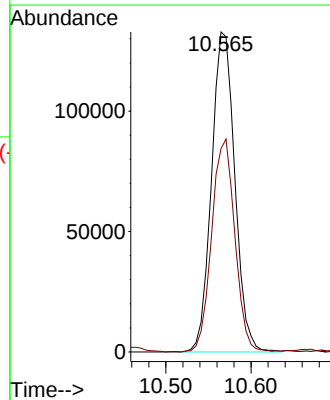
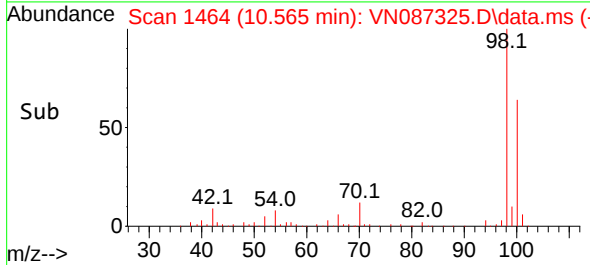
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

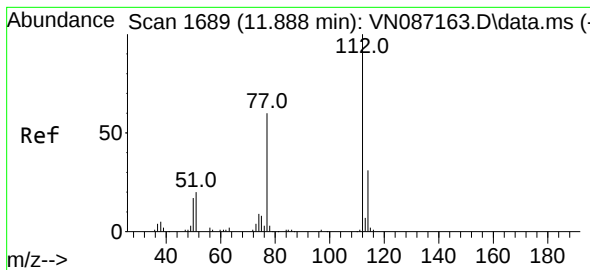


#63
Toluene-d8
Concen: 27.761 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54



Tgt Ion: 98 Resp: 253012
Ion Ratio Lower Upper
98 100
100 66.1 52.5 78.7





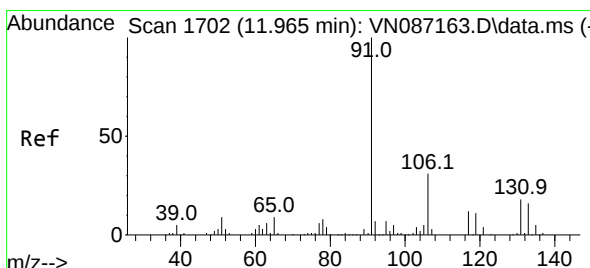
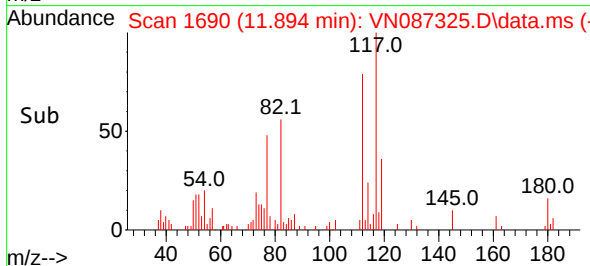
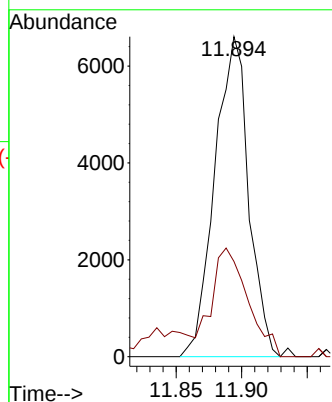
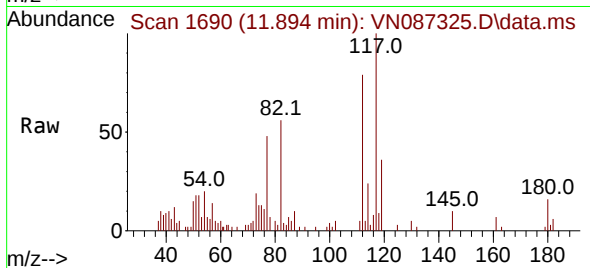
#64
Chlorobenzene
Concen: 1.622 ug/l
RT: 11.894 min Scan# 1185
Delta R.T. 0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE

Tgt Ion:112 Resp: 1185
Ion Ratio Lower Upper
112 100
114 29.7 25.0 37.4

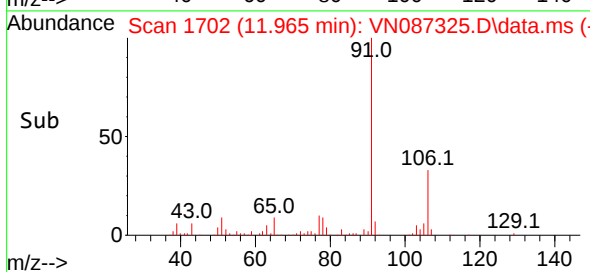
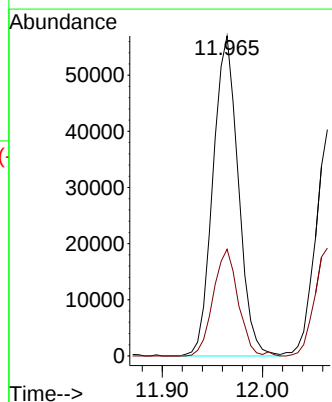
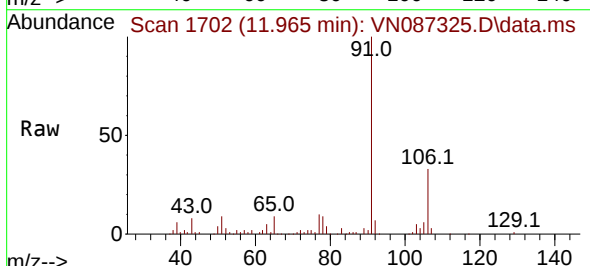
Manual Integrations
APPROVED

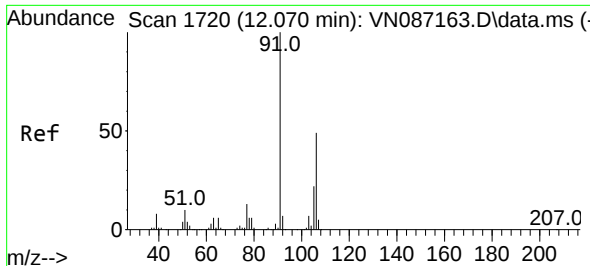
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#66
Ethyl Benzene
Concen: 7.957 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

Tgt Ion: 91 Resp: 99841
Ion Ratio Lower Upper
91 100
106 33.4 24.8 37.2





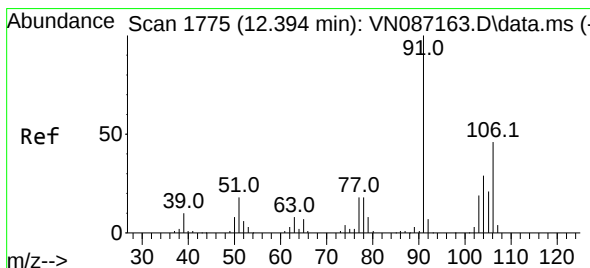
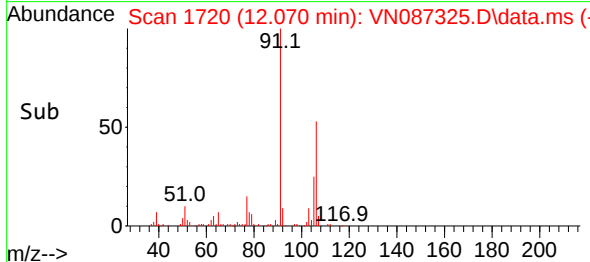
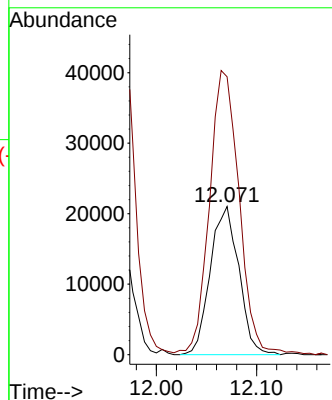
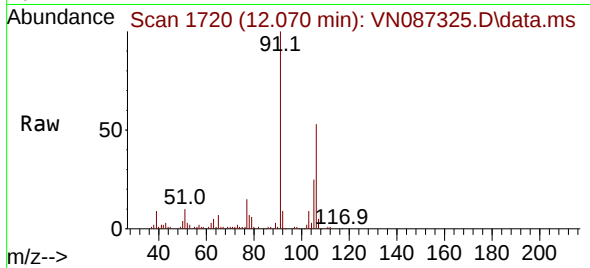
#67
m/p-Xylenes
Concen: 8.661 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE

Tgt Ion:106 Resp: 4164
Ion Ratio Lower Upper
106 100
91 195.1 163.0 244.4

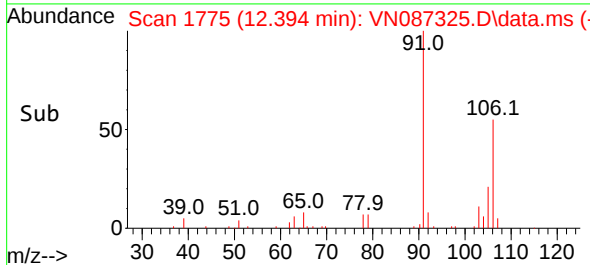
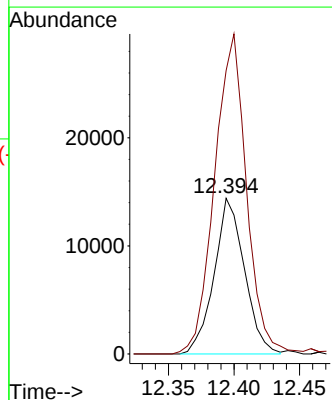
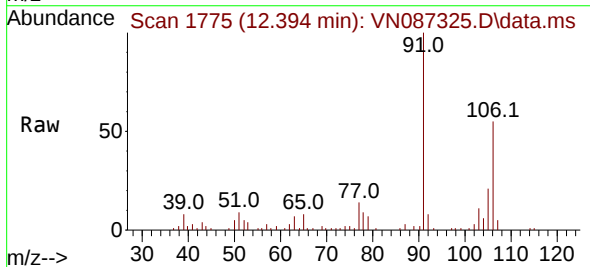
Manual Integrations
APPROVED

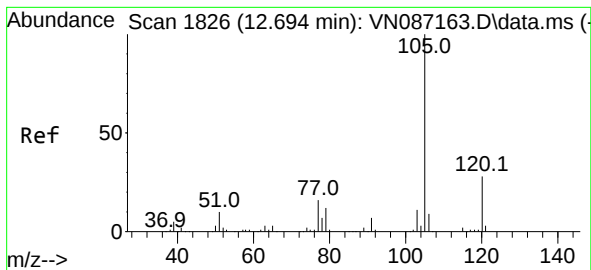
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#68
o-Xylene
Concen: 5.051 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

Tgt Ion:106 Resp: 23170
Ion Ratio Lower Upper
106 100
91 216.0 107.1 321.1





#70

Isopropylbenzene

Concen: 1.590 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN087325.D

Acq: 10 Jul 2025 14:54

Instrument :

MSVOA_N

ClientSampleId :

250709071-01 VOARE

Tgt Ion:105 Resp: 1816

Ion Ratio Lower Upper

105 100

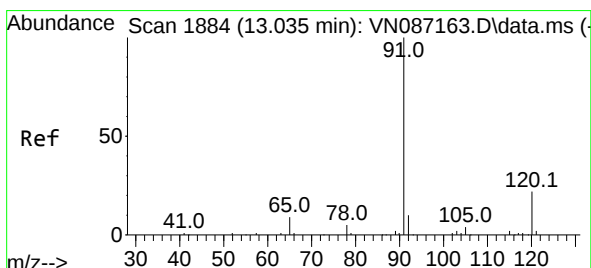
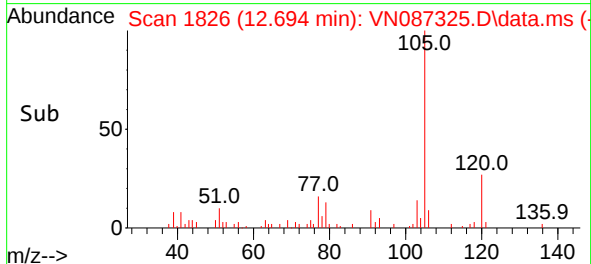
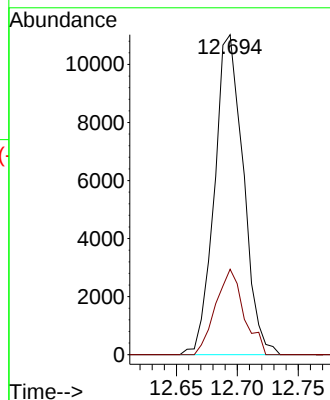
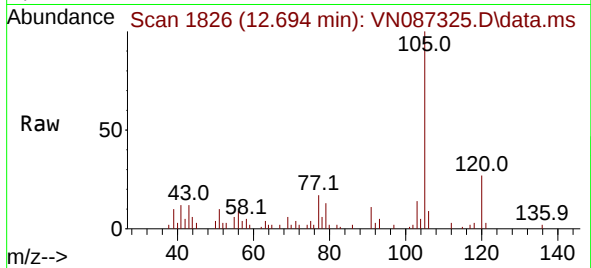
120 26.1 19.0 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/11/2025

Supervised By :Mahesh Dadoda 07/14/2025



#74

n-propylbenzene

Concen: 0.631 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN087325.D

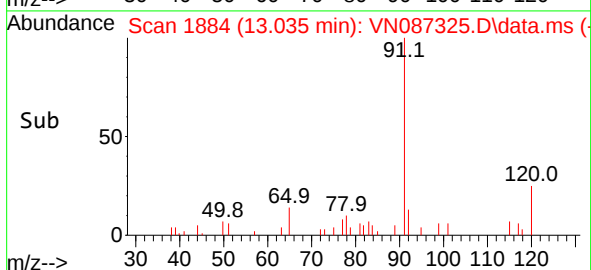
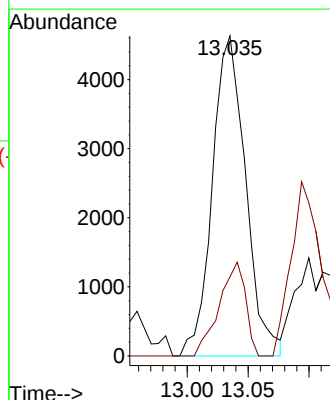
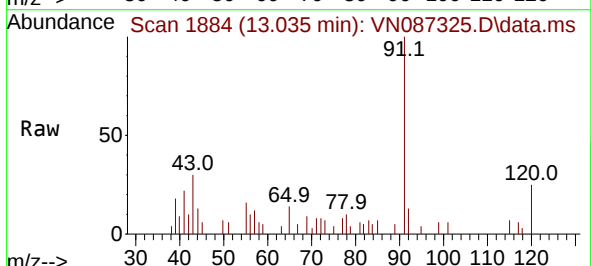
Acq: 10 Jul 2025 14:54

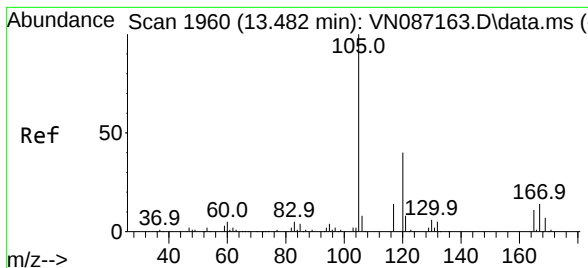
Tgt Ion: 91 Resp: 8814

Ion Ratio Lower Upper

91 100

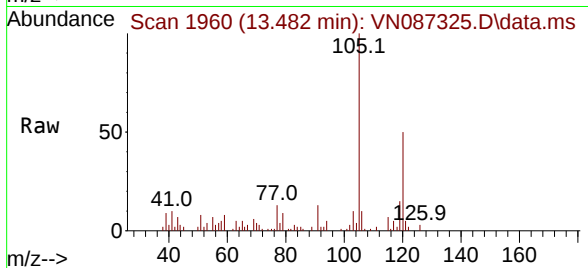
120 23.2 0.0 43.6





#80
1,2,4-Trimethylbenzene
Concen: 3.316 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

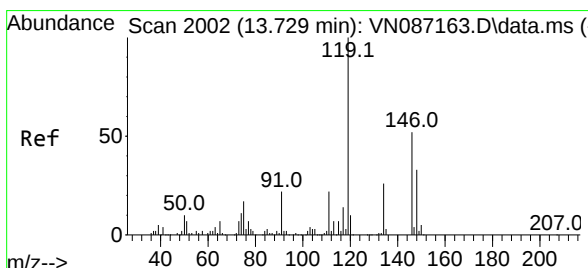
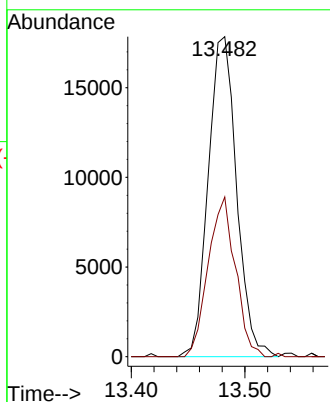
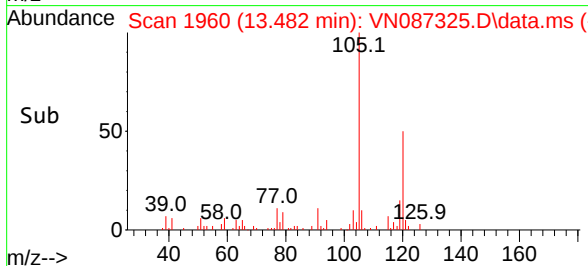
Instrument : MSVOA_N
ClientSampleId : 250709071-01 VOARE



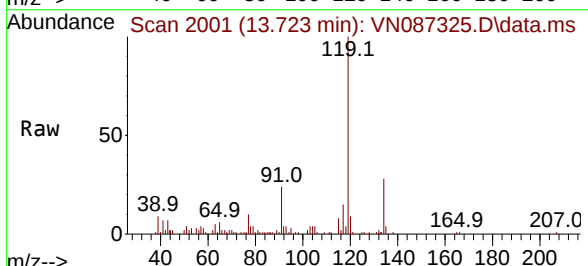
Tgt Ion:105 Resp: 30972
Ion Ratio Lower Upper
105 100
120 47.8 0.0 94.0

Manual Integrations
APPROVED

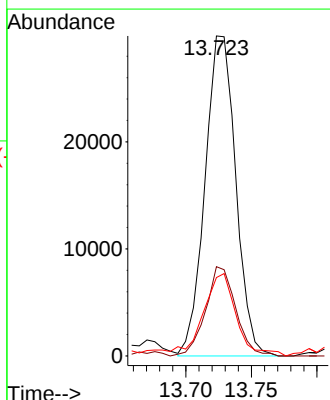
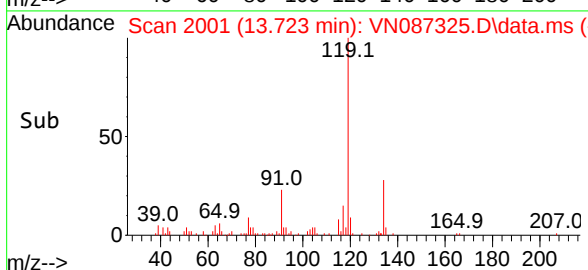
Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025

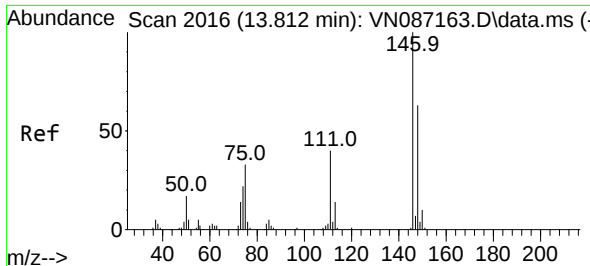


#82
p-Isopropyltoluene
Concen: 5.164 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54



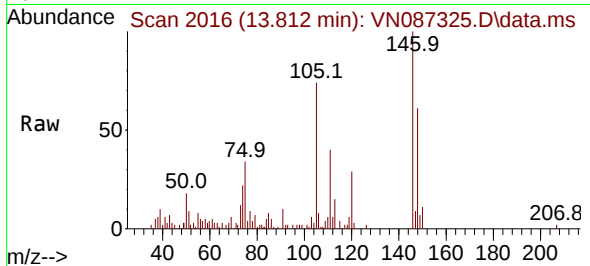
Tgt Ion:119 Resp: 48841
Ion Ratio Lower Upper
119 100
134 27.2 0.0 51.2
91 26.7 0.0 46.4





#84
1,4-Dichlorobenzene
Concen: 4.605 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54

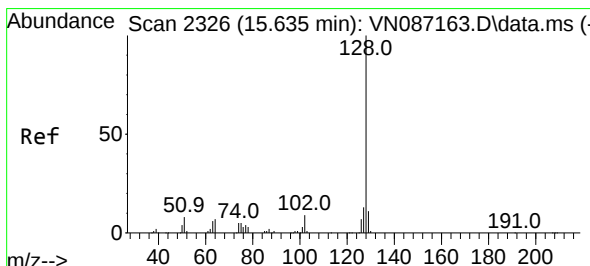
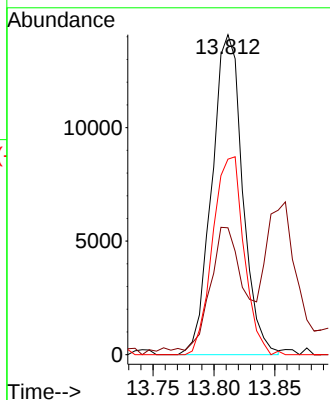
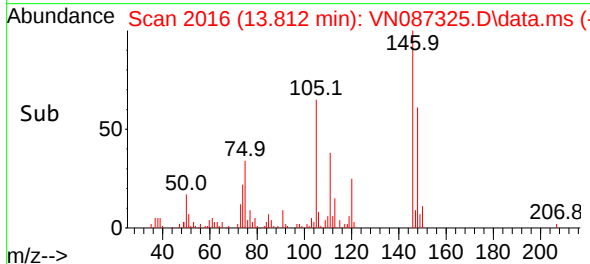
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOARE



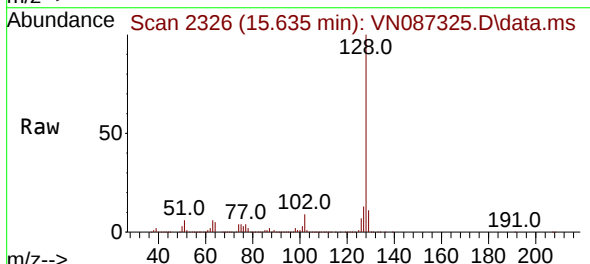
Tgt Ion:146 Resp: 24730
Ion Ratio Lower Upper
146 100
111 44.1 20.1 60.2
148 62.8 31.4 94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/11/2025
Supervised By :Mahesh Dadoda 07/14/2025



#91
Naphthalene
Concen: 45.433 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN087325.D
Acq: 10 Jul 2025 14:54



Tgt Ion:128 Resp: 509087
Ion Ratio Lower Upper
128 100
127 13.1 10.6 15.8
129 11.0 8.8 13.2

