

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088062.D
 Acq On : 17 Oct 2025 12:34
 Operator : JC\MD
 Sample : Q3361-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VOA 251015111-01

Quant Time: Oct 18 01:28:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/20/2025
 Supervised By :Mahesh Dadoda 10/20/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	56268	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	286128	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	252527	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	135331	30.887	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.967%			
60) 4-Bromofluorobenzene	12.823	95	123237	29.603	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.667%			
63) Toluene-d8	10.547	98	346407	30.789	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.633%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.542	62	1762	0.462	ug/l #	82
8) Diethyl Ether	3.965	74	15228	6.505	ug/l	66
12) Methyl Acetate	5.024	43	36246m	7.536	ug/l	
15) Acetone	4.418	58	1310592	1928.099	ug/l	93
18) Methylene Chloride	5.277	84	5096m	1.355	ug/l	
23) tert-Butyl Alcohol	5.518	59	6487271	6968.927	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	26182	2.050	ug/l #	86
30) 2-Butanone	7.465	43	7872769	2602.670	ug/l	96
34) Benzene	8.588	78	77179	5.673	ug/l #	83
36) 1,2-Dichloroethane	8.653	62	9260m	1.961	ug/l	
43) Ethyl Acetate	7.524	43	147822m	25.422	ug/l	
44) Isopropyl Acetate	8.659	43	21849m	2.301	ug/l	
58) 4-Methyl-2-Pentanone	10.424	43	98093	17.366	ug/l #	83
62) Toluene	10.606	91	262585	18.332	ug/l	100
64) Chlorobenzene	11.871	112	20845	2.278	ug/l	98
66) Ethyl Benzene	11.941	91	213209	13.689	ug/l	95
67) m/p-Xylenes	12.047	106	78345	13.048	ug/l	96
68) o-Xylene	12.376	106	44956	7.521	ug/l	99
69) Styrene	12.388	104	10603	1.072	ug/l #	39
70) Isopropylbenzene	12.671	105	31140	2.126	ug/l	95
74) n-propylbenzene	13.018	91	11490	0.650	ug/l	93
76) 1,3,5-Trimethylbenzene	13.153	105	15530	1.248	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	57640	4.627	ug/l	100
82) p-Isopropyltoluene	13.706	119	149310	11.530	ug/l	97
84) 1,4-Dichlorobenzene	13.788	146	25052	3.606	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	1960	0.296	ug/l	84
91) Naphthalene	15.612	128	461067	31.906	ug/l	99

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

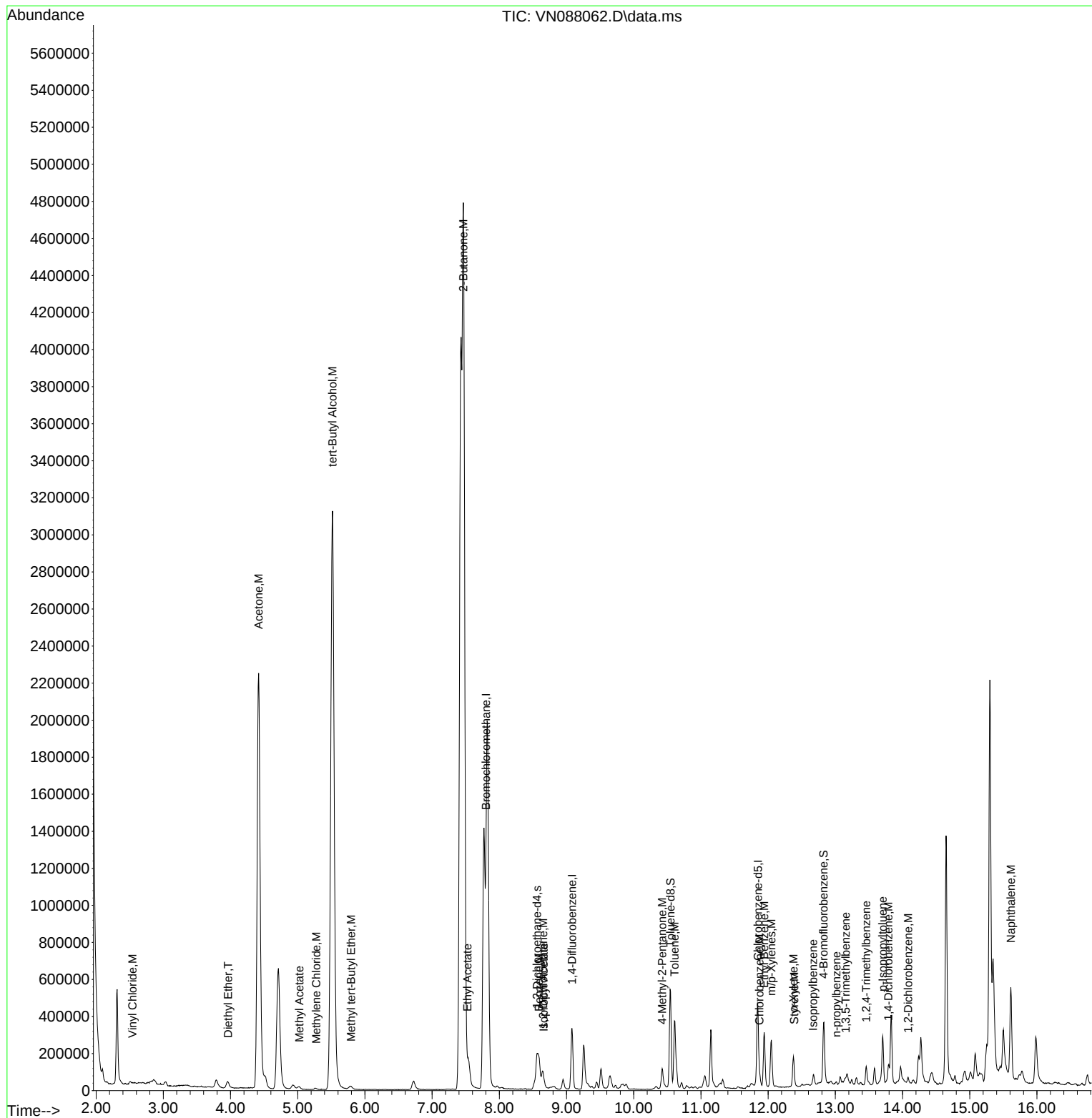
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088062.D
Acq On : 17 Oct 2025 12:34
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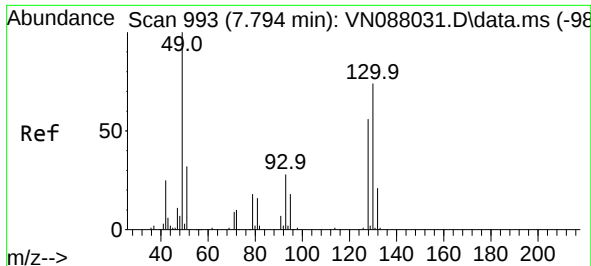
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01

Quant Time: Oct 18 01:28:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
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Manual Integrations
APPROVED

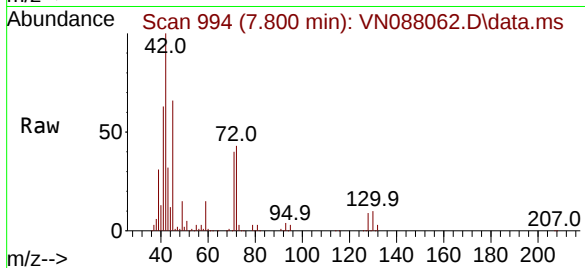
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

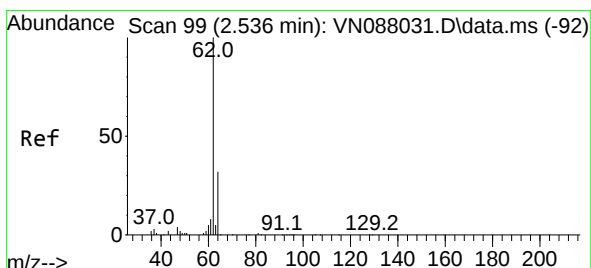
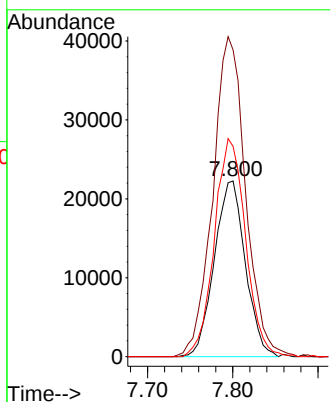
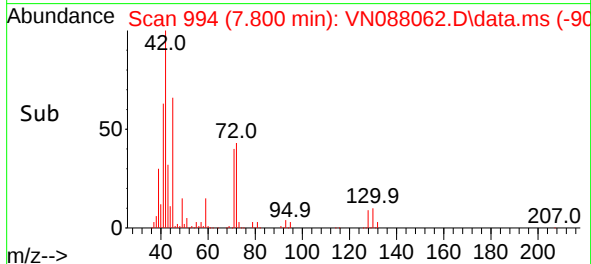
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



Tgt Ion: 128 Resp: 5626
Ion Ratio Lower Upper
128 100
49 192.7 0.0 439.8
130 125.0 0.0 325.8

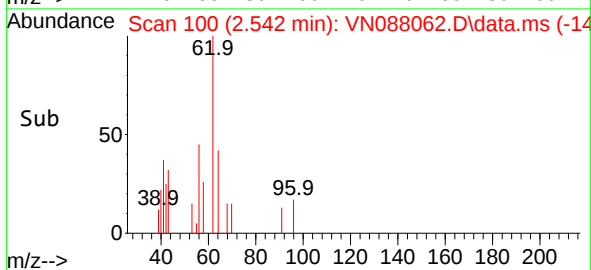
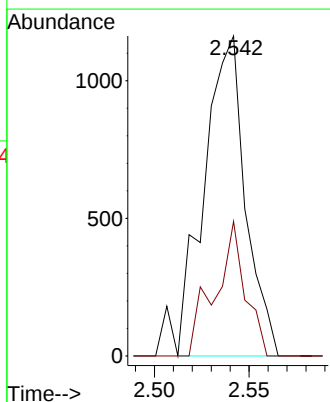
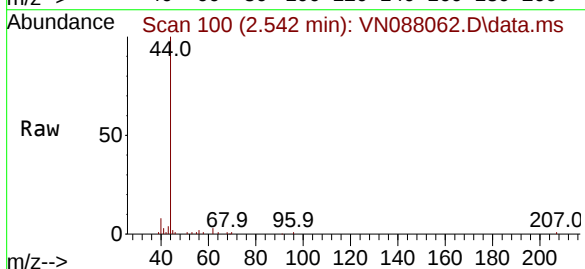
Manual Integrations
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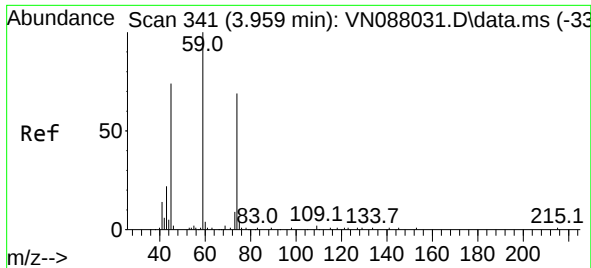
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#4
Vinyl Chloride
Concen: 0.462 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

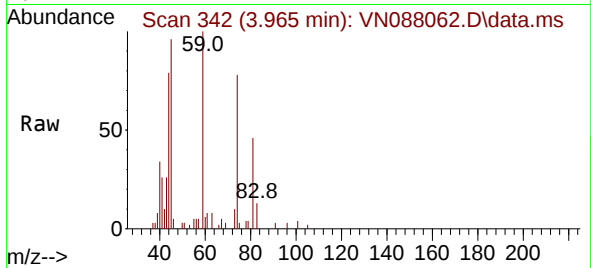
Tgt Ion: 62 Resp: 1762
Ion Ratio Lower Upper
62 100
64 42.0 25.7 38.5





#8
Diethyl Ether
Concen: 6.505 ug/l
RT: 3.965 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

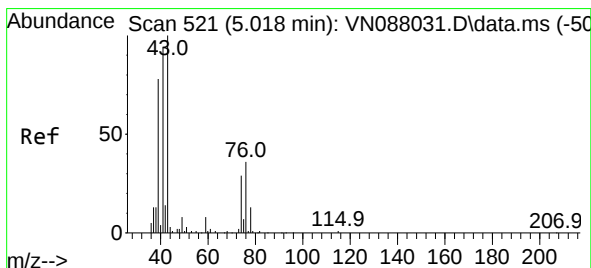
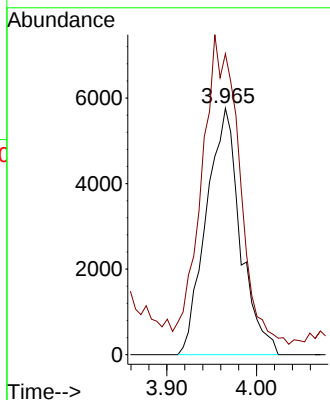
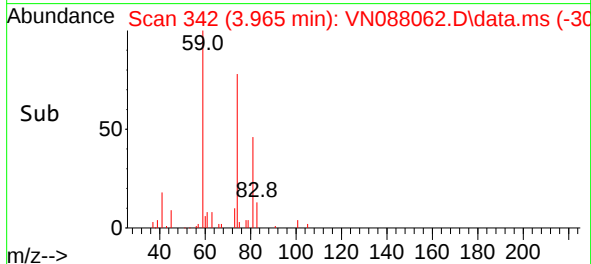
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ClientSampleId :
VOA 251015111-01



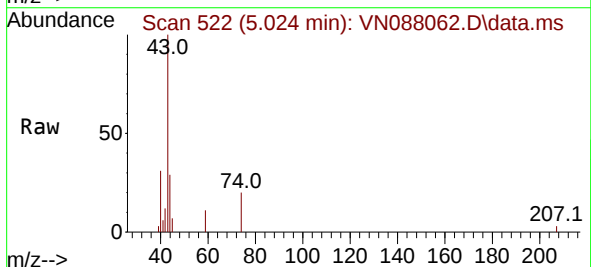
Tgt Ion: 74 Resp: 15228
Ion Ratio Lower Upper
74 100
45 67.5 20.4 183.8

Manual Integrations
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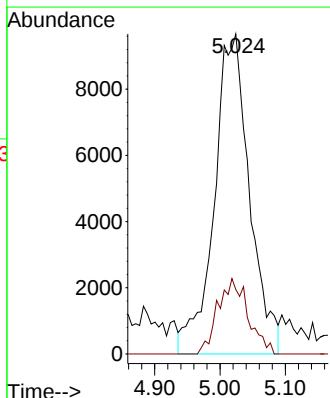
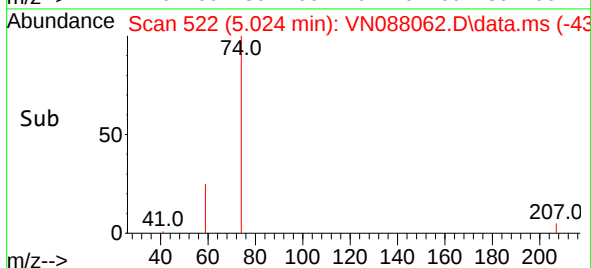
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

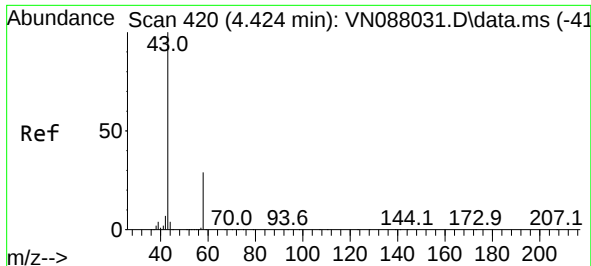


#12
Methyl Acetate
Concen: 7.536 ug/l m
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34



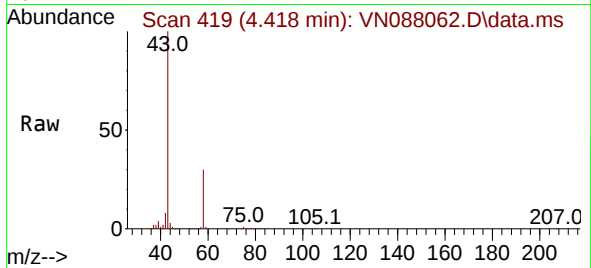
Tgt Ion: 43 Resp: 36246
Ion Ratio Lower Upper
43 100
74 20.2 23.3 34.9#





#15
Acetone
Concen: 1928.099 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

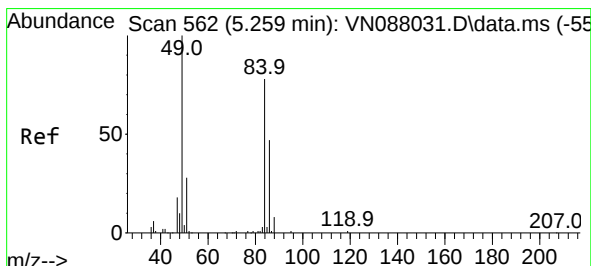
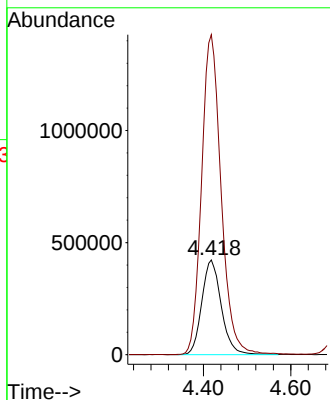
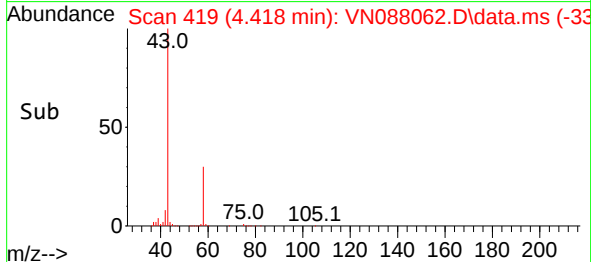
Instrument :
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ClientSampleId :
VOA 251015111-01



Tgt Ion: 58 Resp: 1310592
Ion Ratio Lower Upper
58 100
43 337.3 282.6 424.0

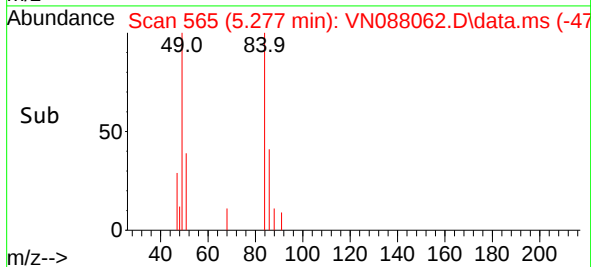
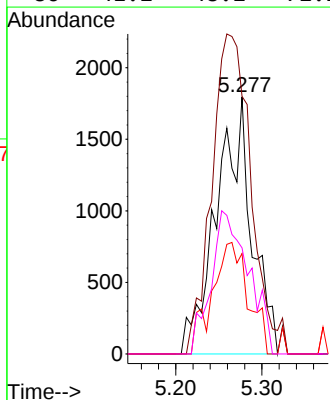
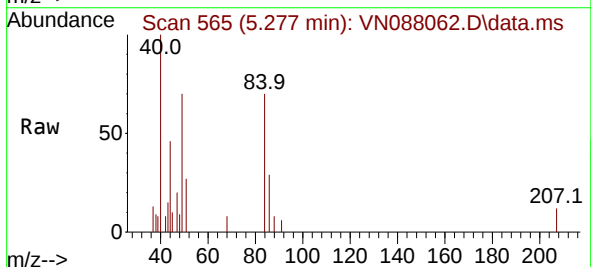
Manual Integrations
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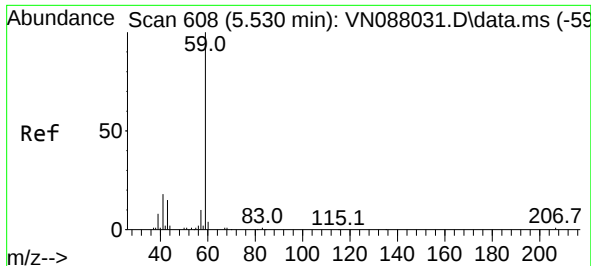
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#18
Methylene Chloride
Concen: 1.355 ug/l m
RT: 5.277 min Scan# 565
Delta R.T. 0.018 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

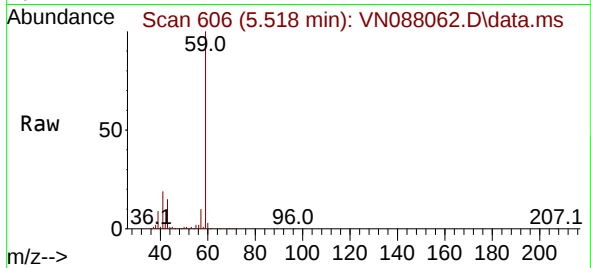
Tgt Ion: 84 Resp: 5096
Ion Ratio Lower Upper
84 100
49 100.2 102.6 153.8#
51 39.1 28.6 42.8
86 41.2 48.2 72.2#





#23
tert-Butyl Alcohol
Concen: 6968.927 ug/l
RT: 5.518 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

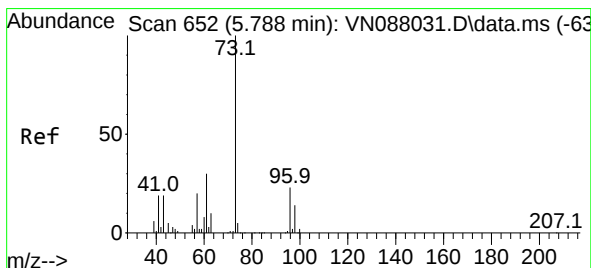
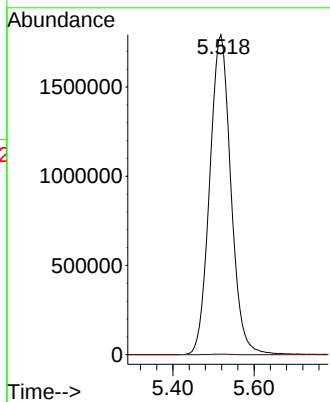
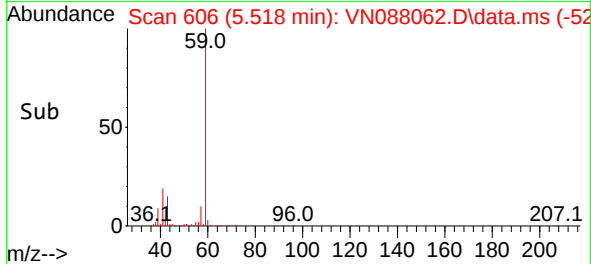
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



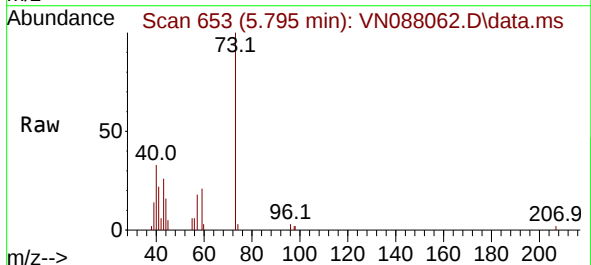
Tgt Ion: 59 Resp: 648727
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0

Manual Integrations
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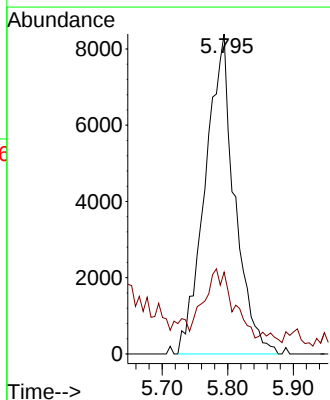
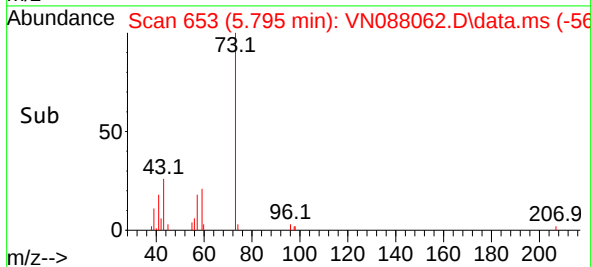
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

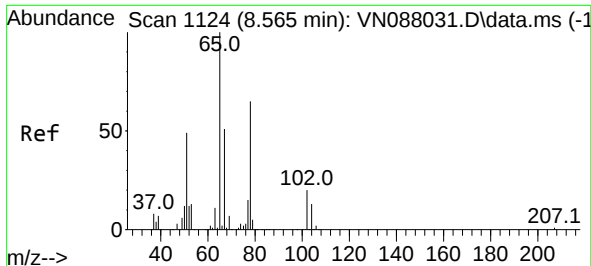


#24
Methyl tert-Butyl Ether
Concen: 2.050 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34



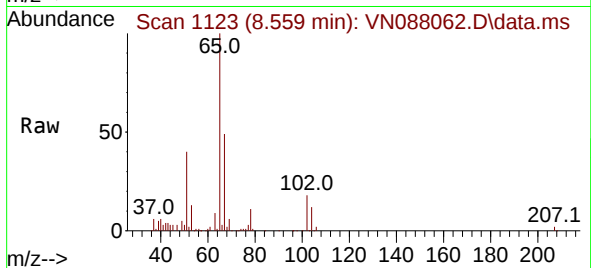
Tgt Ion: 73 Resp: 26182
Ion Ratio Lower Upper
73 100
43 14.7 17.0 25.4





#27
1,2-Dichloroethane-d4
Concen: 30.887 ug/l
RT: 8.559 min Scan# 1124
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

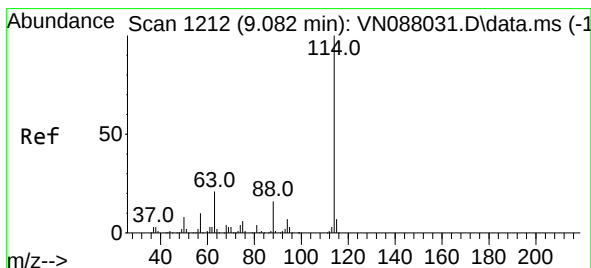
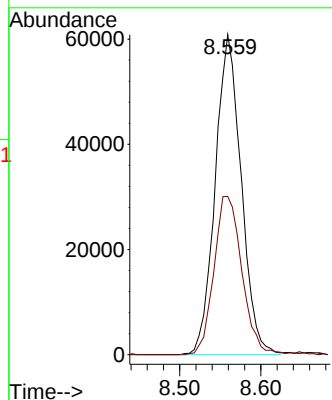
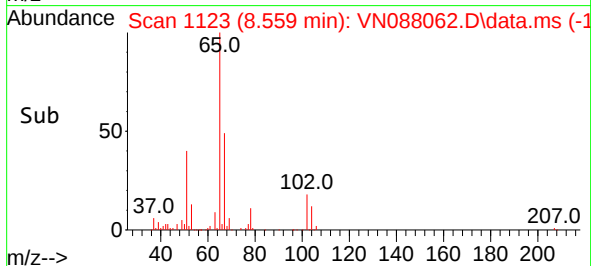
Instrument :
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ClientSampleId :
VOA 251015111-01



Tgt Ion: 65 Resp: 13533
Ion Ratio Lower Upper
65 100
67 53.1 41.9 62.9

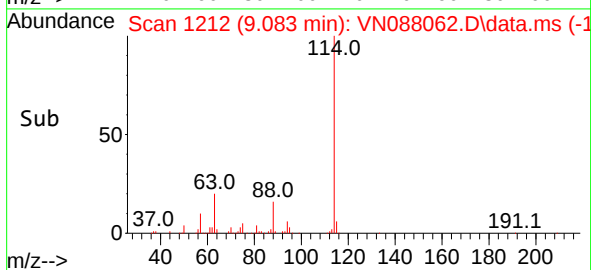
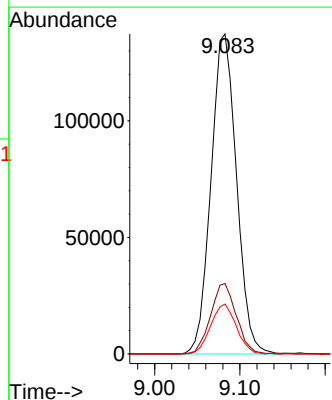
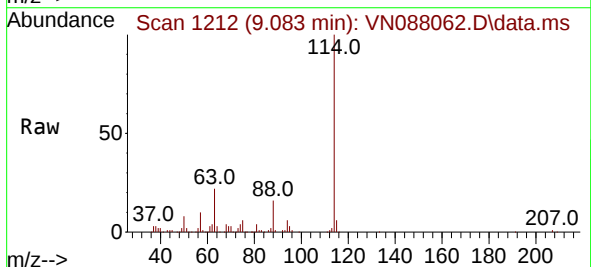
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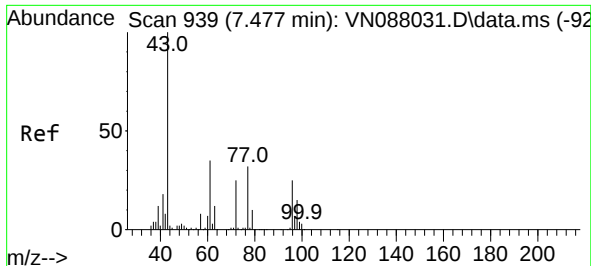
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

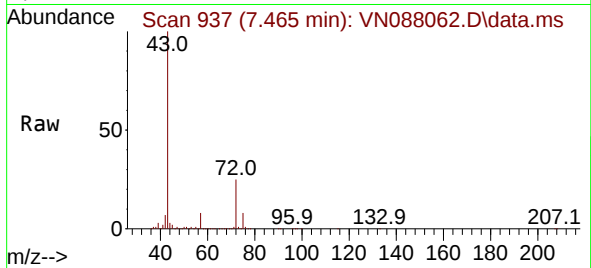
Tgt Ion:114 Resp: 286128
Ion Ratio Lower Upper
114 100
63 22.2 16.6 25.0
88 15.6 12.6 18.8





#30
2-Butanone
Concen: 2602.670 ug/l
RT: 7.465 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

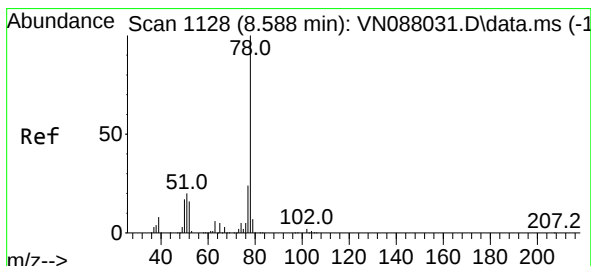
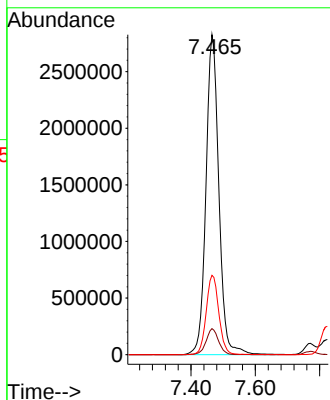
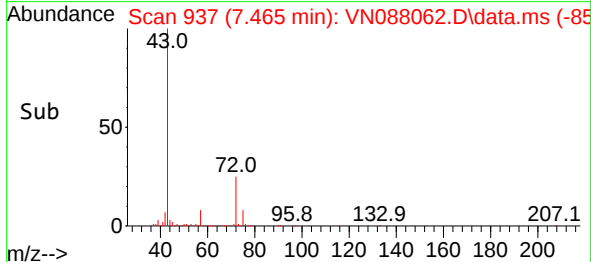
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VOA 251015111-01



Tgt Ion: 43 Resp: 7872769
Ion Ratio Lower Upper
43 100
57 7.9 6.5 9.7
72 24.3 21.4 32.2

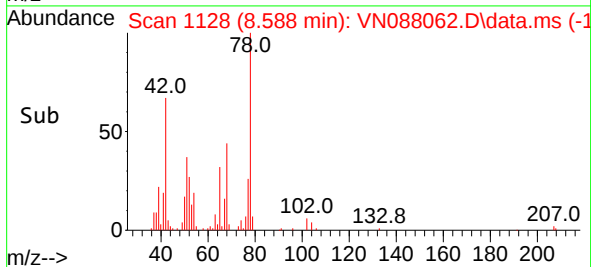
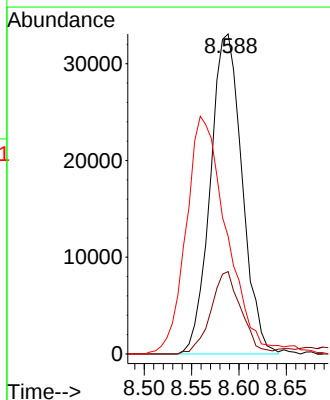
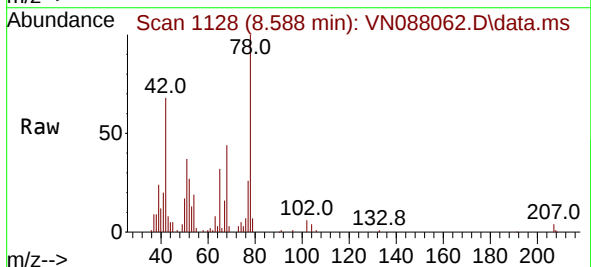
Manual Integrations
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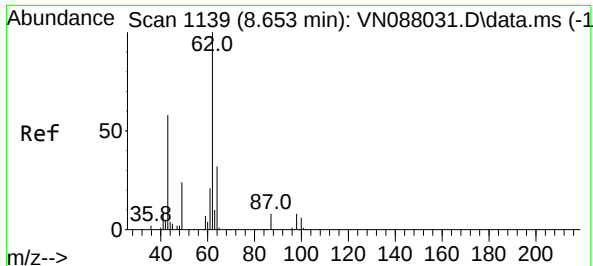
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#34
Benzene
Concen: 5.673 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

Tgt Ion: 78 Resp: 77179
Ion Ratio Lower Upper
78 100
77 25.7 18.9 28.3
51 34.1 15.6 23.4#





#36

1,2-Dichloroethane

Concen: 1.961 ug/l m

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN088062.D

Acq: 17 Oct 2025 12:34

Instrument :

MSVOA_N

ClientSampleId :

VOA 251015111-01

Tgt Ion: 62 Resp: 9260

Ion Ratio Lower Upper

62 100

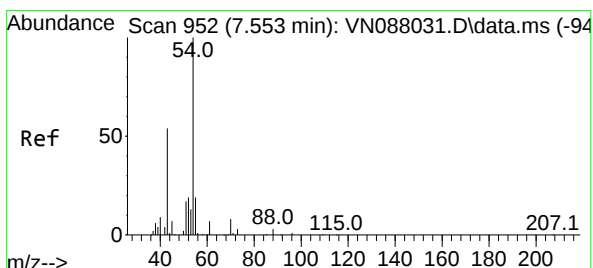
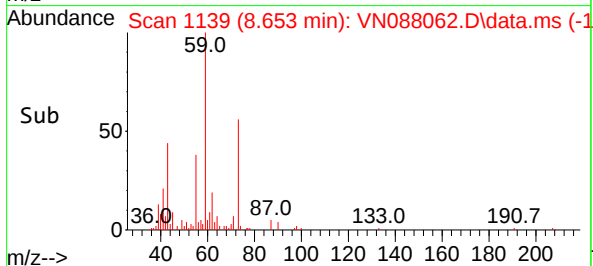
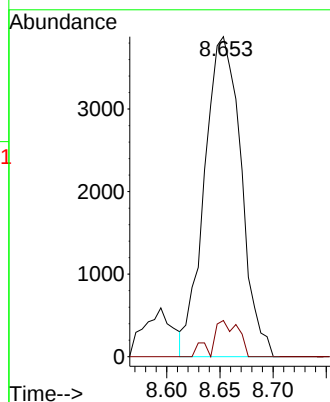
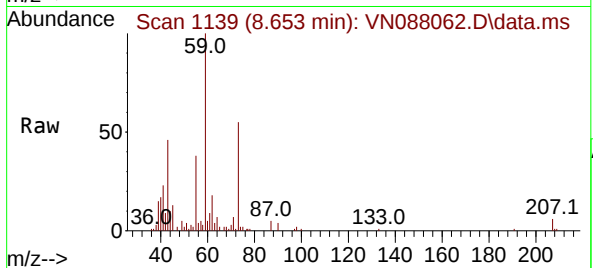
98 1.3 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2025

Supervised By :Mahesh Dadoda 10/20/2025



#43

Ethyl Acetate

Concen: 25.422 ug/l m

RT: 7.524 min Scan# 947

Delta R.T. -0.029 min

Lab File: VN088062.D

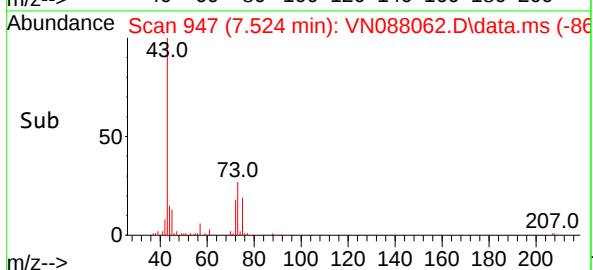
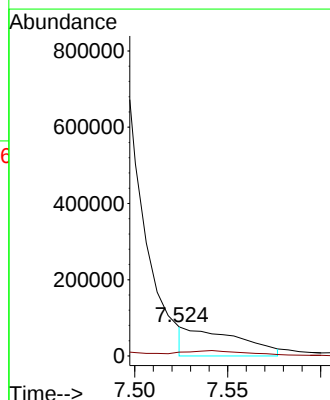
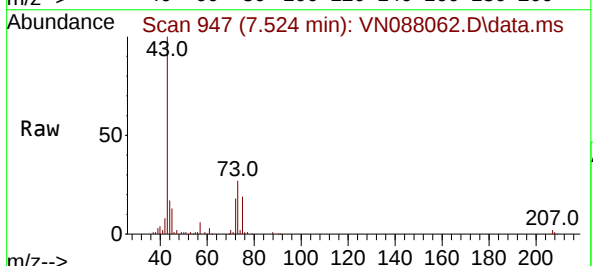
Acq: 17 Oct 2025 12:34

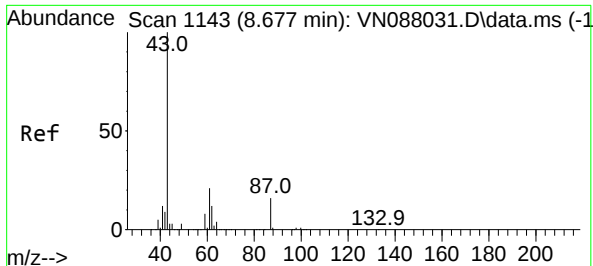
Tgt Ion: 43 Resp: 147822

Ion Ratio Lower Upper

43 100

45 737.9 10.2 15.4#





#44

Isopropyl Acetate

Concen: 2.301 ug/l m

RT: 8.659 min Scan# 1143

Delta R.T. -0.017 min

Lab File: VN088062.D

Acq: 17 Oct 2025 12:34

Instrument :

MSVOA_N

ClientSampleId :

VOA 251015111-01

Tgt Ion: 43 Resp: 21849

Ion Ratio Lower Upper

43 100

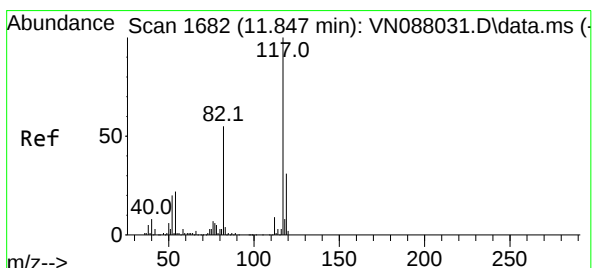
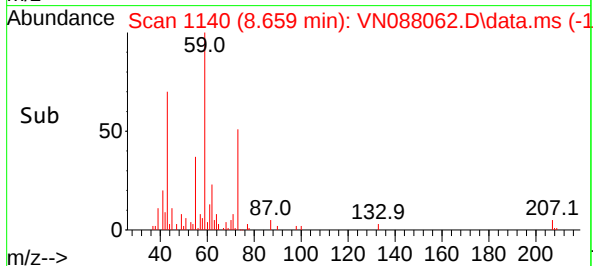
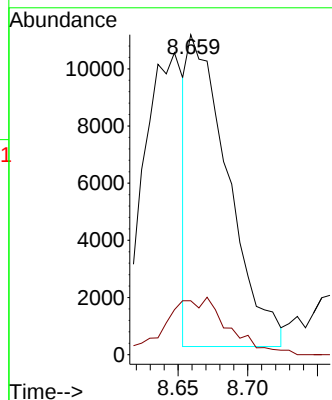
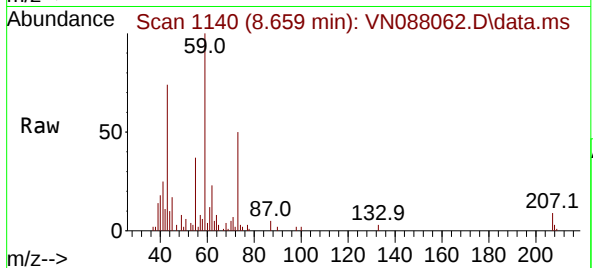
61 12.8 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/20/2025

Supervised By :Mahesh Dadoda 10/20/2025



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.000 min

Lab File: VN088062.D

Acq: 17 Oct 2025 12:34

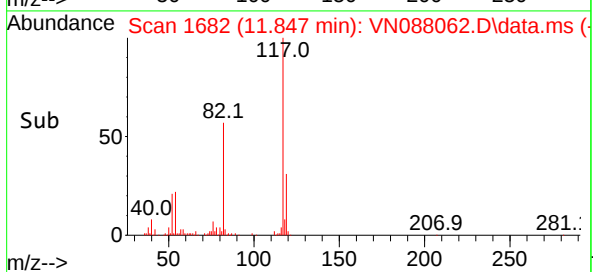
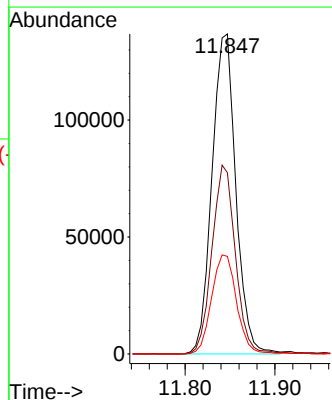
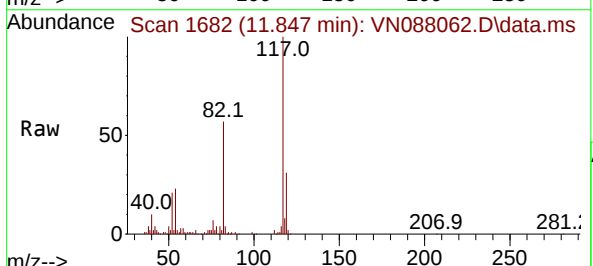
Tgt Ion:117 Resp: 252527

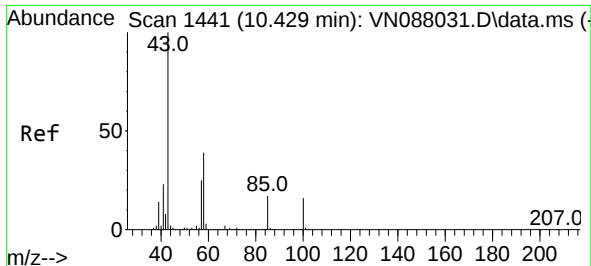
Ion Ratio Lower Upper

117 100

82 57.9 45.2 67.8

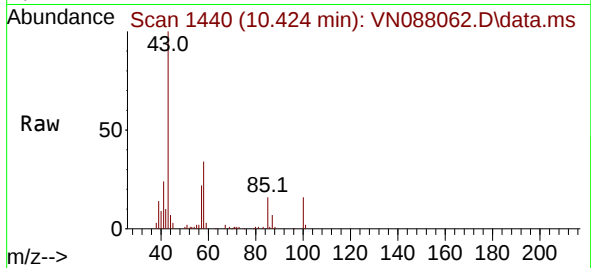
119 32.3 25.9 38.9





#58
4-Methyl-2-Pentanone
Concen: 17.366 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

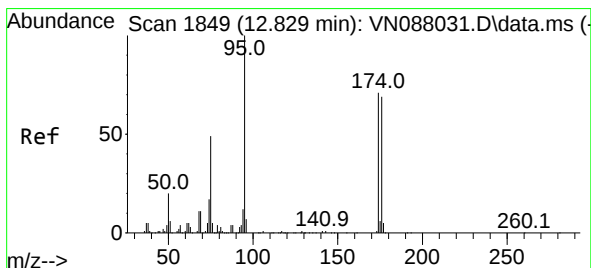
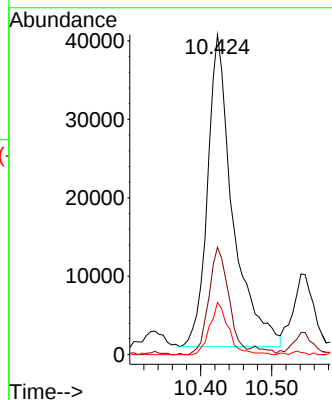
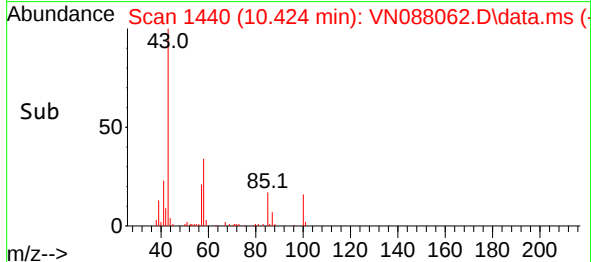
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



Tgt Ion: 43 Resp: 9809
Ion Ratio Lower Upper
43 100
58 27.2 31.2 46.8
85 12.3 13.7 20.5

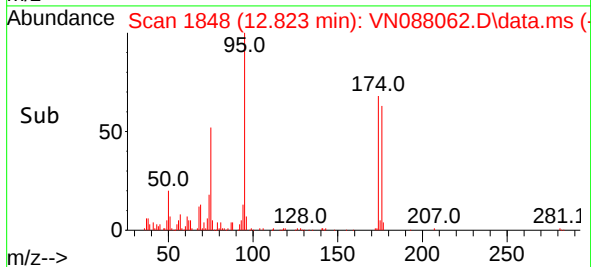
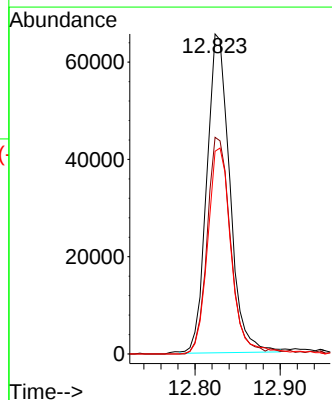
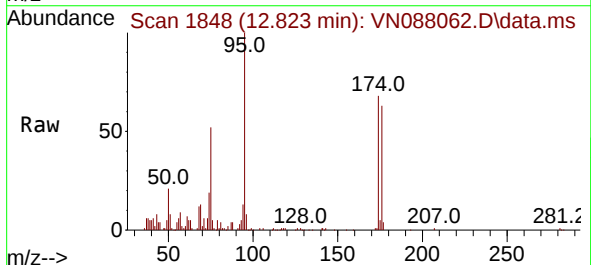
Manual Integrations
APPROVED

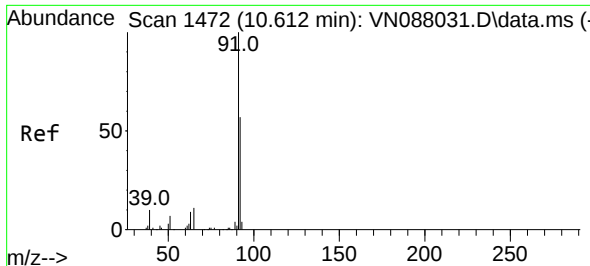
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#60
4-Bromofluorobenzene
Concen: 29.603 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

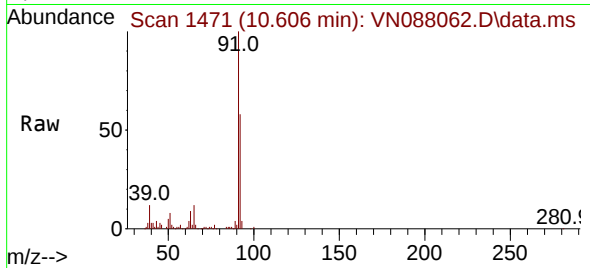
Tgt Ion: 95 Resp: 123237
Ion Ratio Lower Upper
95 100
174 68.6 57.4 86.0
176 65.4 57.0 85.4





#62
Toluene
Concen: 18.332 ug/l
RT: 10.606 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

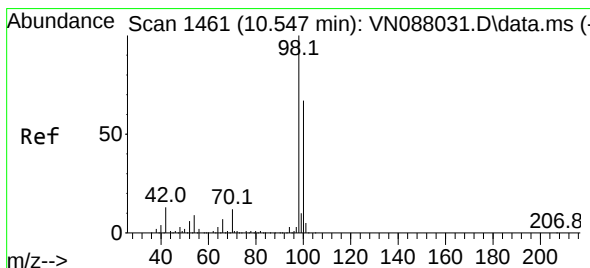
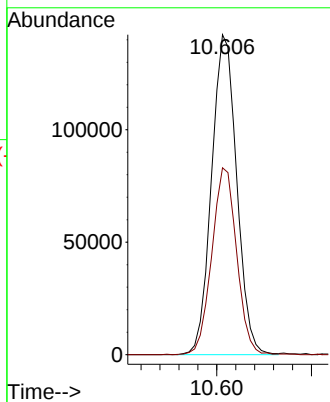
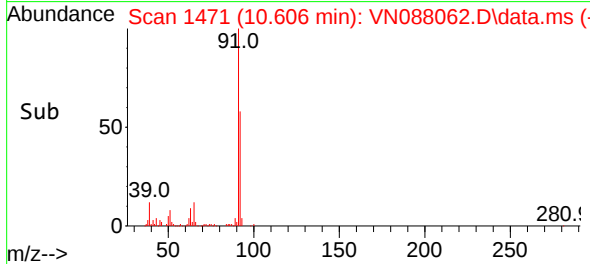
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



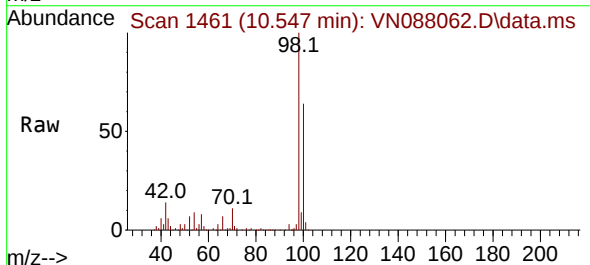
Tgt Ion: 91 Resp: 26258
Ion Ratio Lower Upper
91 100
92 57.7 45.8 68.8

Manual Integrations
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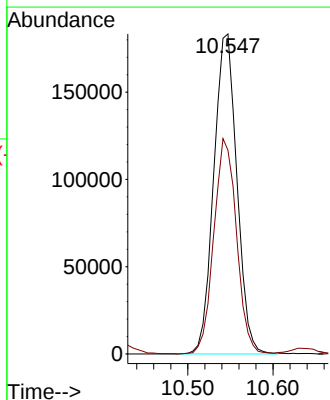
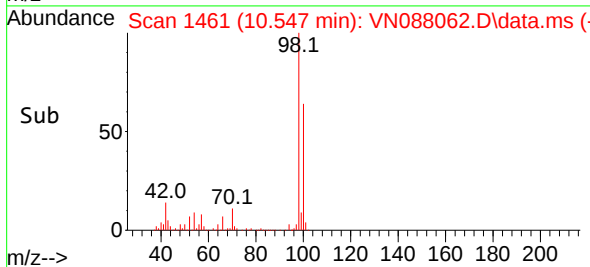
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

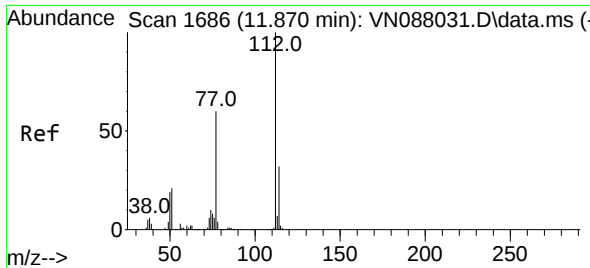


#63
Toluene-d8
Concen: 30.789 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34



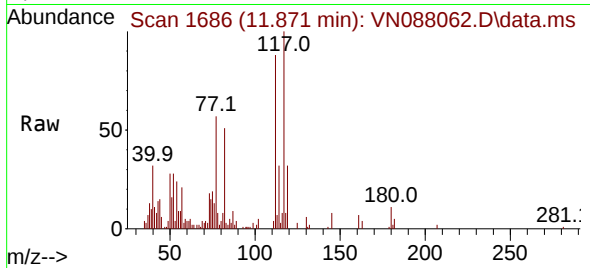
Tgt Ion: 98 Resp: 346407
Ion Ratio Lower Upper
98 100
100 66.1 53.1 79.7





#64
Chlorobenzene
Concen: 2.278 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

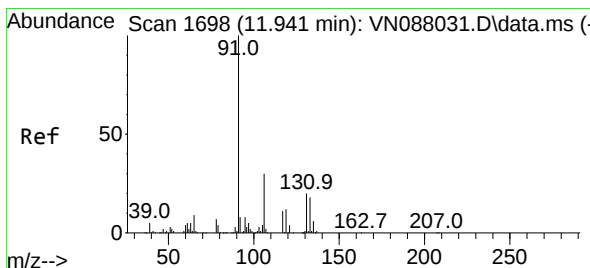
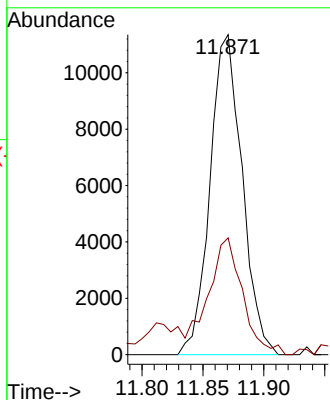
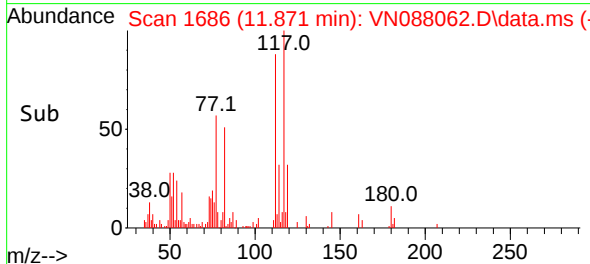
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



Tgt Ion:112 Resp: 20845
Ion Ratio Lower Upper
112 100
114 33.4 25.7 38.5

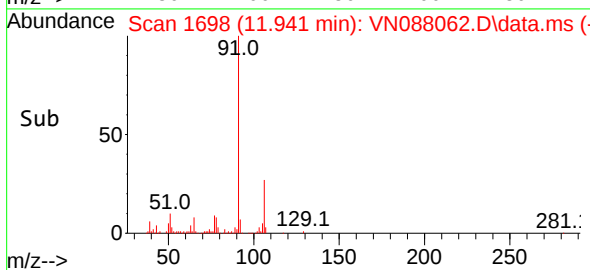
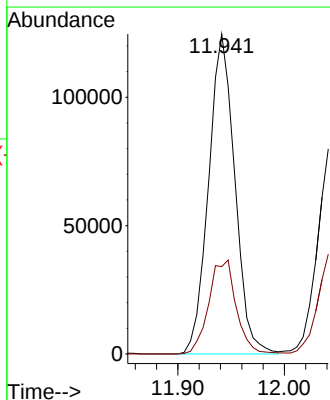
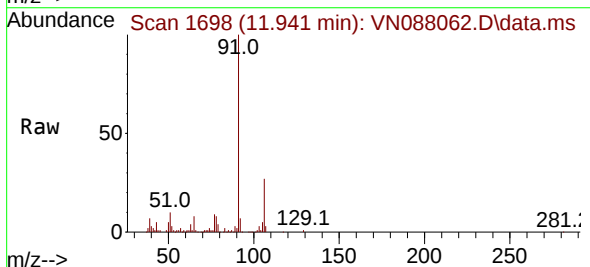
Manual Integrations
APPROVED

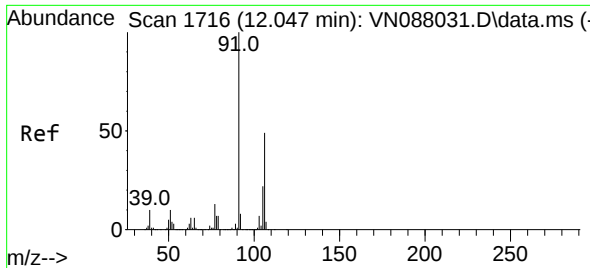
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#66
Ethyl Benzene
Concen: 13.689 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

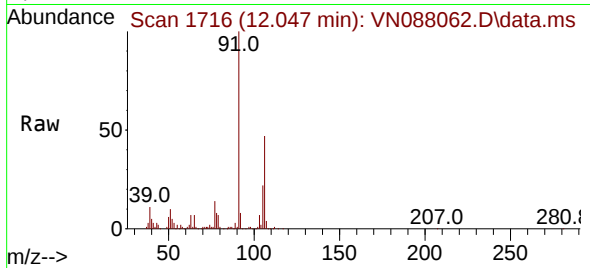
Tgt Ion: 91 Resp: 213209
Ion Ratio Lower Upper
91 100
106 27.3 24.0 36.0





#67
m/p-Xylenes
Concen: 13.048 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

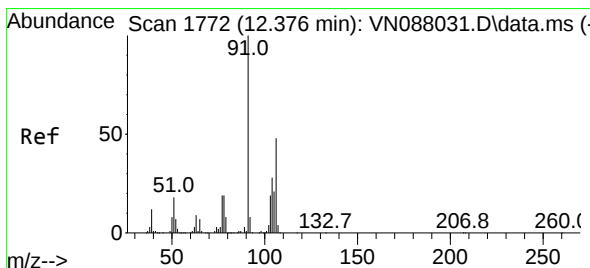
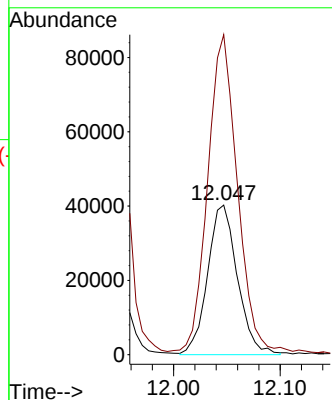
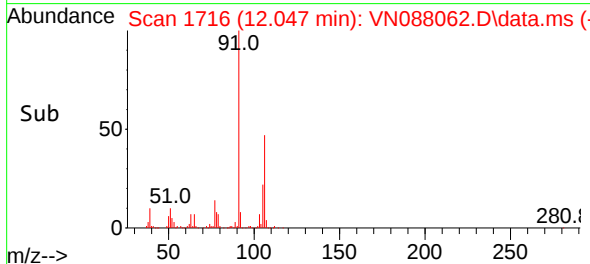
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



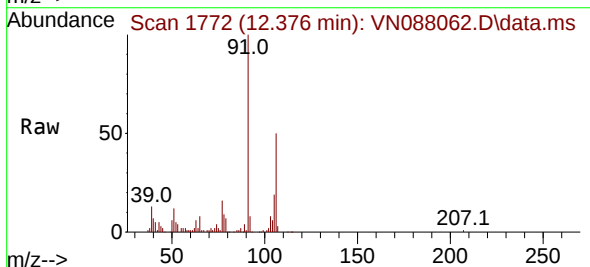
Tgt Ion:106 Resp: 7834
Ion Ratio Lower Upper
106 100
91 207.2 161.4 242.0

Manual Integrations
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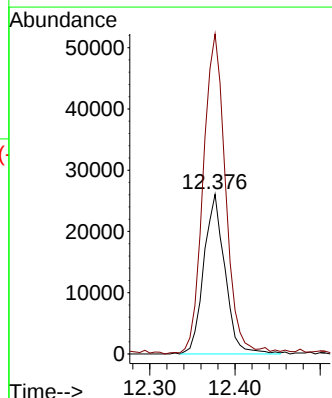
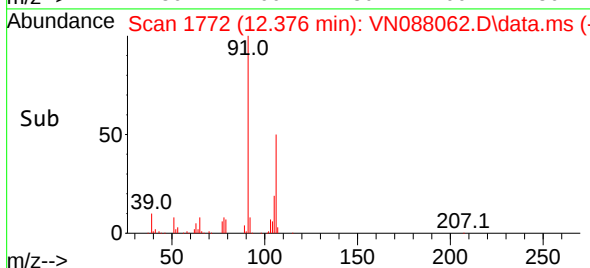
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

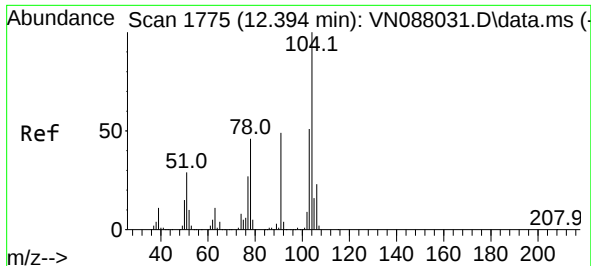


#68
o-Xylene
Concen: 7.521 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34



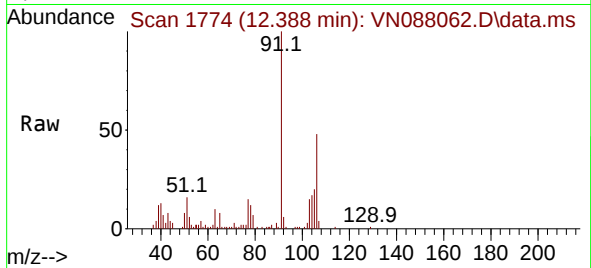
Tgt Ion:106 Resp: 44956
Ion Ratio Lower Upper
106 100
91 208.2 105.2 315.6





#69
Styrene
Concen: 1.072 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

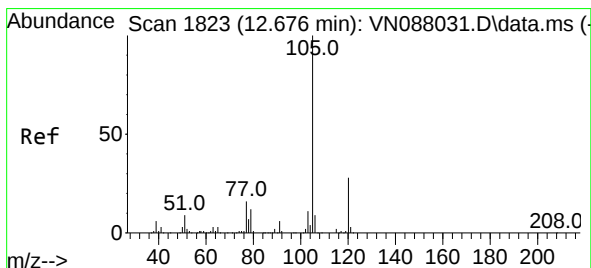
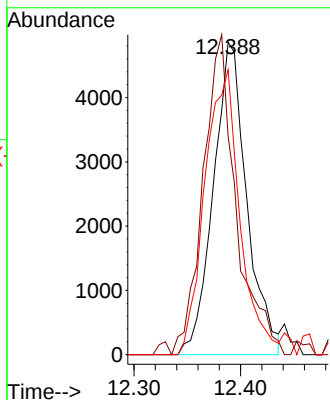
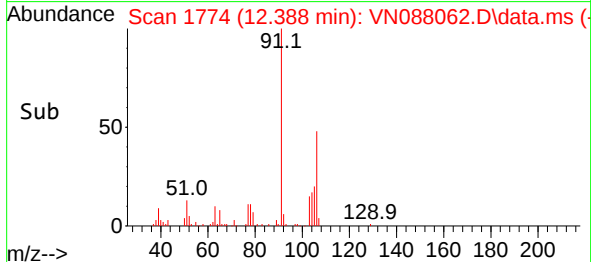
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



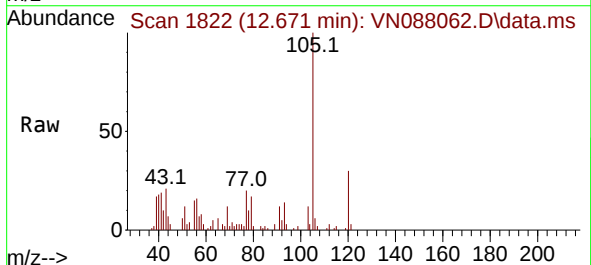
Tgt Ion:104 Resp: 1060
Ion Ratio Lower Upper
104 100
78 101.1 41.8 62.6
103 95.3 44.9 67.3

Manual Integrations
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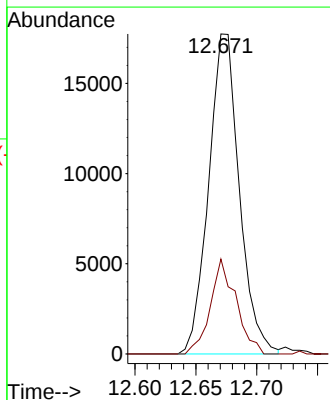
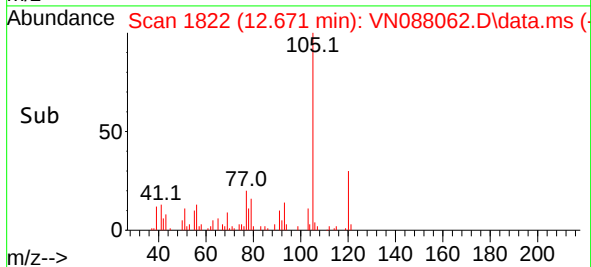
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

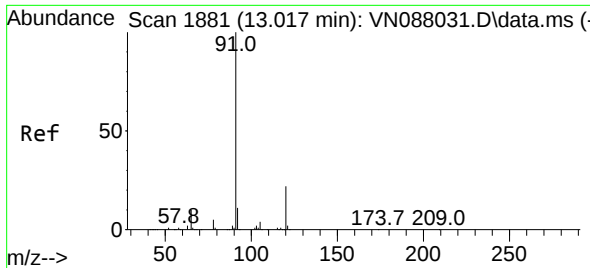


#70
Isopropylbenzene
Concen: 2.126 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34



Tgt Ion:105 Resp: 31140
Ion Ratio Lower Upper
105 100
120 24.8 19.1 35.5





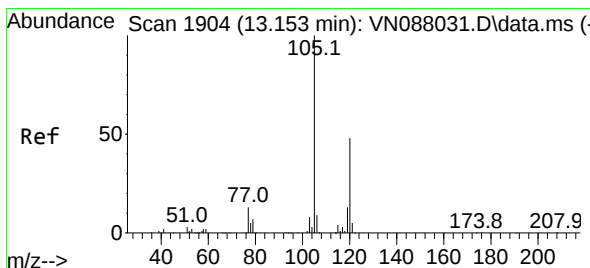
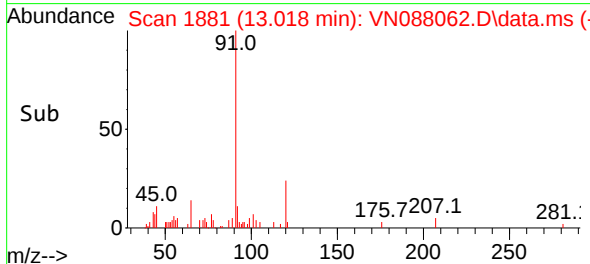
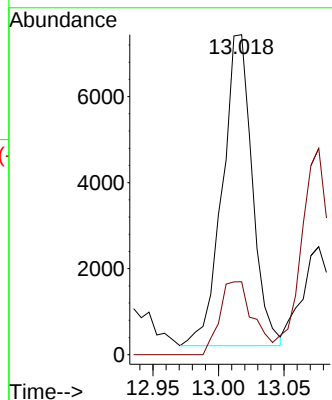
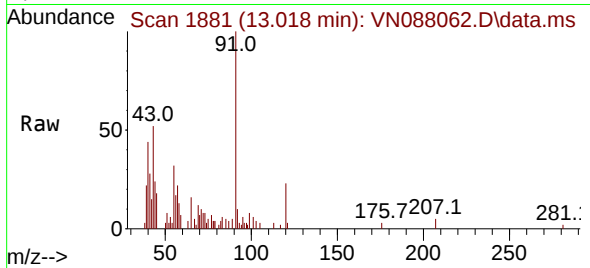
#74
n-propylbenzene
Concen: 0.650 ug/l
RT: 13.018 min Scan# 11490
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01

Tgt Ion: 91 Resp: 11490
Ion Ratio Lower Upper
91 100
120 26.5 0.0 46.2

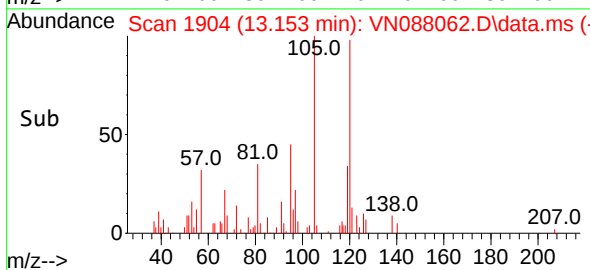
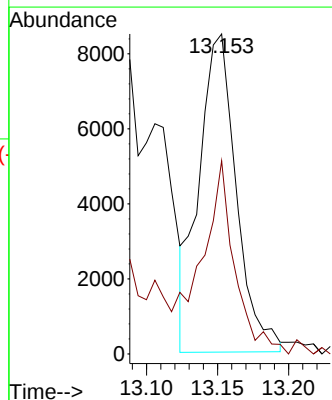
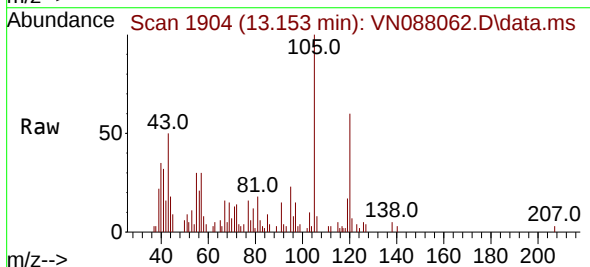
Manual Integrations
APPROVED

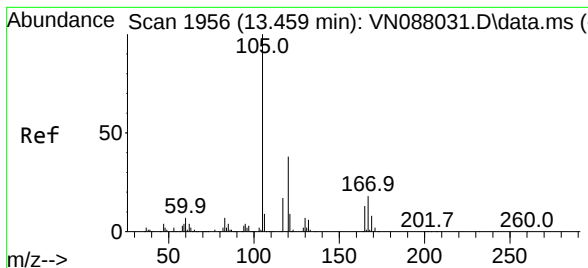
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#76
1,3,5-Trimethylbenzene
Concen: 1.248 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

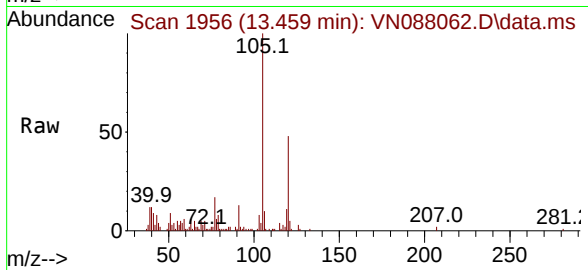
Tgt Ion:105 Resp: 15530
Ion Ratio Lower Upper
105 100
120 51.9 0.0 100.6





#80
 1,2,4-Trimethylbenzene
 Concen: 4.627 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. 0.000 min
 Lab File: VN088062.D
 Acq: 17 Oct 2025 12:34

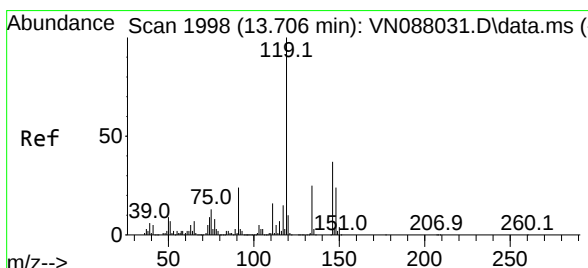
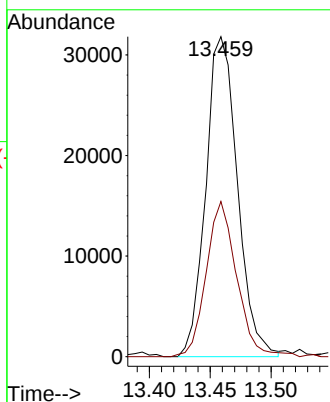
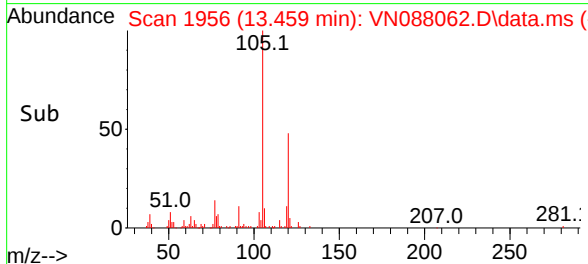
Instrument : MSVOA_N
 ClientSampleId : VOA 251015111-01



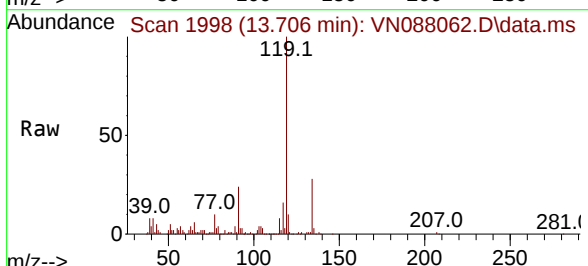
Tgt Ion:105 Resp: 57640
 Ion Ratio Lower Upper
 105 100
 120 46.6 0.0 93.8

Manual Integrations
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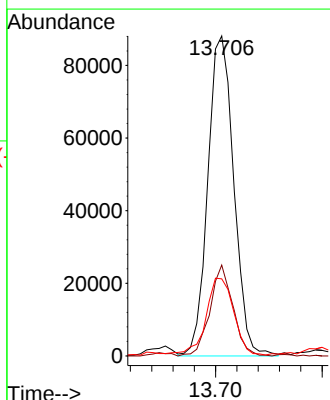
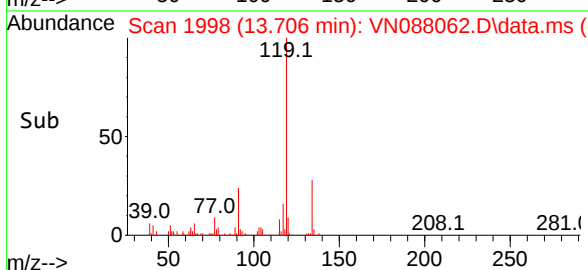
Reviewed By :John Carlone 10/20/2025
 Supervised By :Mahesh Dadoda 10/20/2025

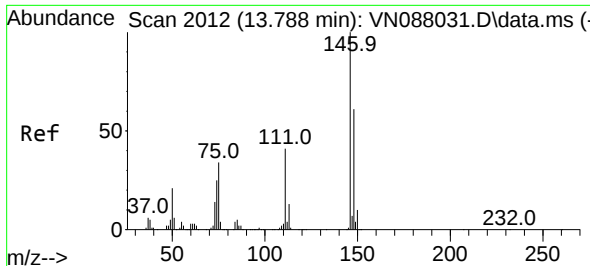


#82
 p-Isopropyltoluene
 Concen: 11.530 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN088062.D
 Acq: 17 Oct 2025 12:34



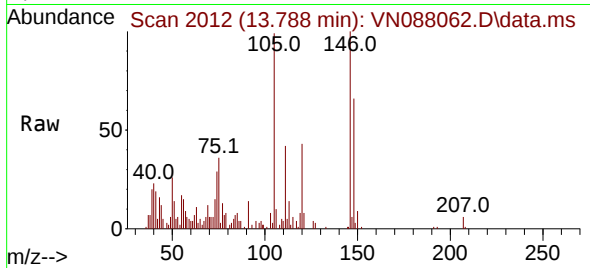
Tgt Ion:119 Resp: 149310
 Ion Ratio Lower Upper
 119 100
 134 25.1 0.0 52.6
 91 26.3 0.0 48.2





#84
1,4-Dichlorobenzene
Concen: 3.606 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

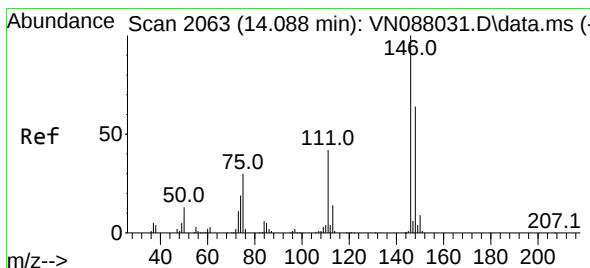
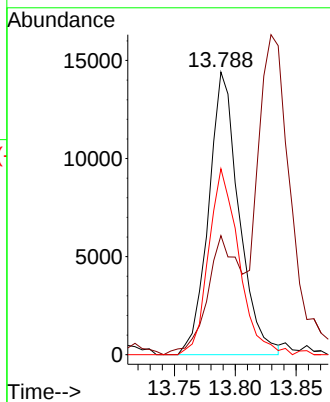
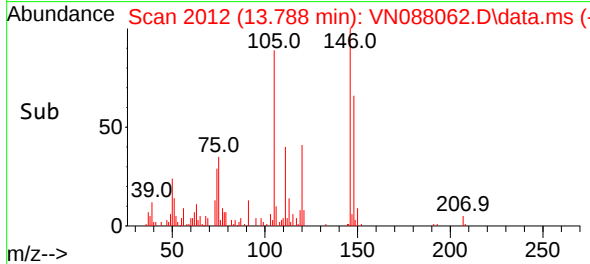
Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



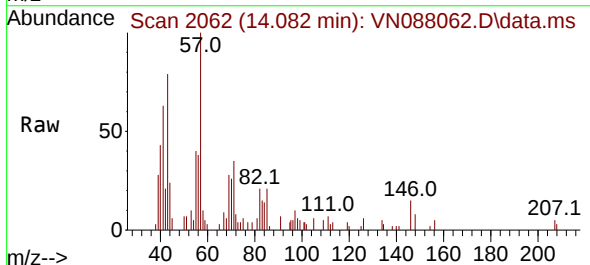
Tgt Ion:146 Resp: 25052
Ion Ratio Lower Upper
146 100
111 43.3 20.5 61.6
148 65.8 31.9 95.9

Manual Integrations
APPROVED

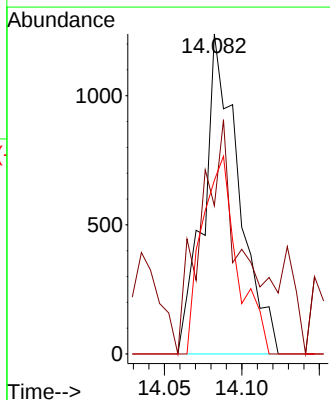
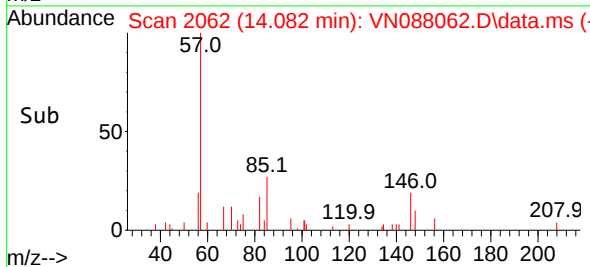
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

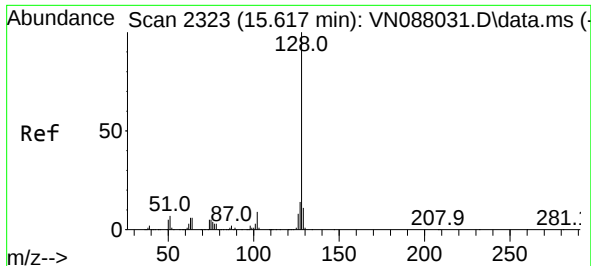


#87
1,2-Dichlorobenzene
Concen: 0.296 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34



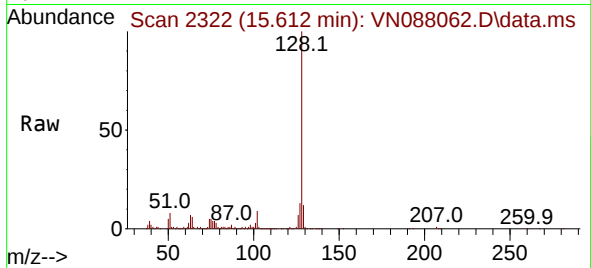
Tgt Ion:146 Resp: 1960
Ion Ratio Lower Upper
146 100
111 59.0 22.3 66.8
148 54.6 31.4 94.3





#91
Naphthalene
Concen: 31.906 ug/l
RT: 15.612 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN088062.D
Acq: 17 Oct 2025 12:34

Instrument :
MSVOA_N
ClientSampleId :
VOA 251015111-01



Tgt Ion:128 Resp: 46106
Ion Ratio Lower Upper
128 100
127 13.5 10.3 15.5
129 11.1 8.6 13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

