

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088375.D
 Acq On : 01 Dec 2025 12:30
 Operator : JC\MD
 Sample : Q3715-02 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW6

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/02/2025
 Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:11:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	190391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	425302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	411286	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	194905	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	186996	52.138	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.280%			
35) Dibromofluoromethane	8.147	113	145277	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	10.541	98	547230	49.901	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.800%			
62) 4-Bromofluorobenzene	12.829	95	207102	55.040	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.080%			
Target Compounds					Qvalue	
25) 2-Butanone	7.471	43	20607	9.882	ug/l	99
31) Cyclohexane	8.230	56	207628	44.017	ug/l #	93
39) Methylcyclohexane	9.577	83	202004	41.518	ug/l	94
40) Benzene	8.588	78	48442	3.629	ug/l	95
52) Toluene	10.606	92	13442	1.744	ug/l	99
67) Ethyl Benzene	11.941	91	789435	48.892	ug/l	100
68) m/p-Xylenes	12.041	106	170697	28.513	ug/l	99
69) o-Xylene	12.376	106	9872m	1.730	ug/l	
73) Isopropylbenzene	12.671	105	601978	41.772	ug/l	100
78) n-propylbenzene	13.012	91	2709447m	153.684	ug/l	
80) 1,3,5-Trimethylbenzene	13.147	105	154136	12.908	ug/l	98
83) tert-Butylbenzene	13.418	119	21234	2.092	ug/l	94
84) 1,2,4-Trimethylbenzene	13.459	105	47419	3.995	ug/l	96
85) sec-Butylbenzene	13.588	105	213874	14.666	ug/l #	64
86) p-Isopropyltoluene	13.706	119	54659	4.571	ug/l	95
89) n-Butylbenzene	14.029	91	249163m	21.459	ug/l	
95) Naphthalene	15.612	128	249692	20.078	ug/l	99

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

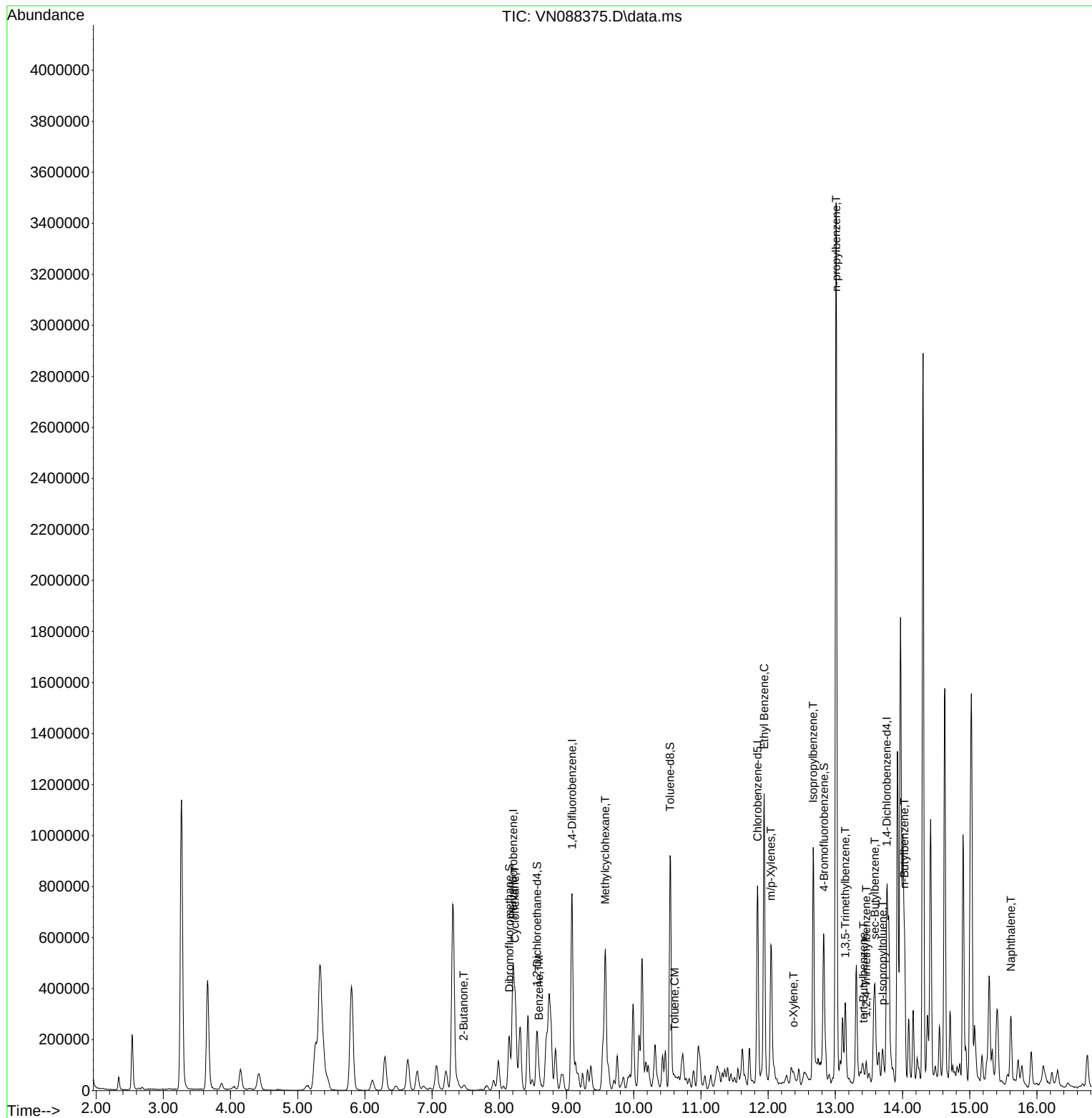
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088375.D
Acq On : 01 Dec 2025 12:30
Operator : JC\MD
Sample : Q3715-02 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

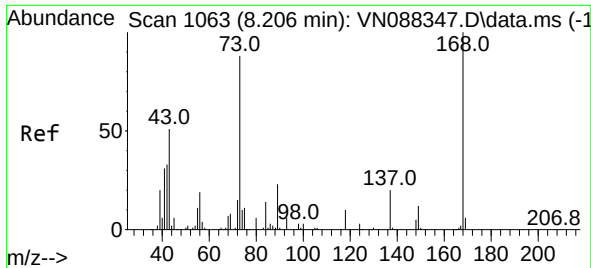
Instrument :
MSVOA_N
ClientSampleId :
MW6

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/02/2025
Supervised By : Mahesh Dadoda 12/02/2025

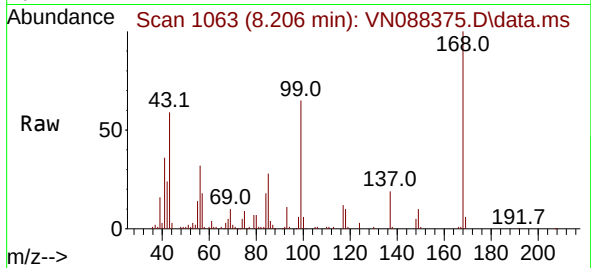
Quant Time: Dec 02 00:11:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

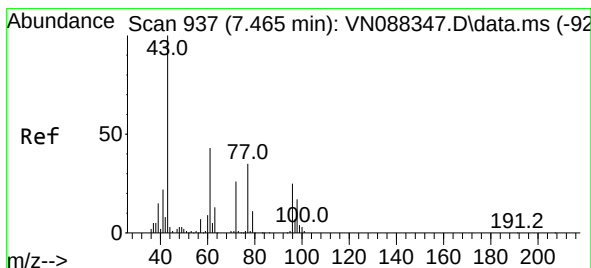
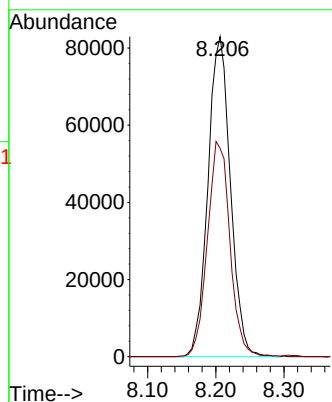
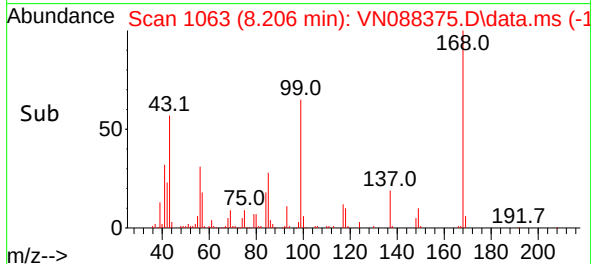
Instrument :
MSVOA_N
ClientSampleId :
MW6



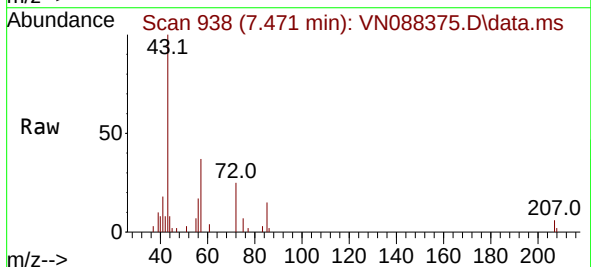
Tgt Ion:168 Resp: 19039
Ion Ratio Lower Upper
168 100
99 64.9 57.1 85.7

Manual Integrations
APPROVED

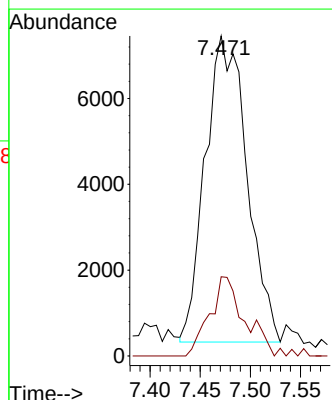
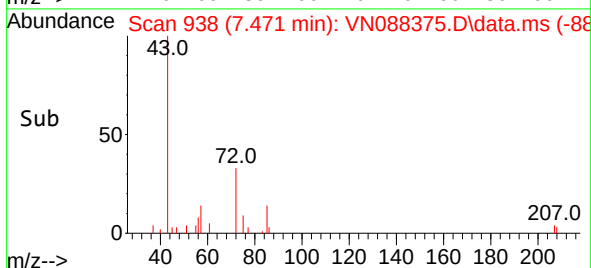
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

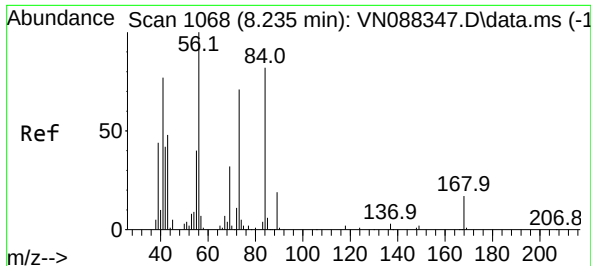


#25
2-Butanone
Concen: 9.882 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30



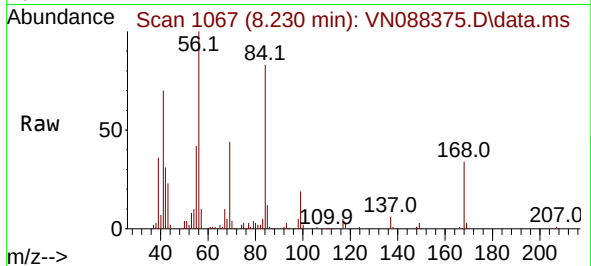
Tgt Ion: 43 Resp: 20607
Ion Ratio Lower Upper
43 100
72 25.9 20.5 30.7





#31
Cyclohexane
Concen: 44.017 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

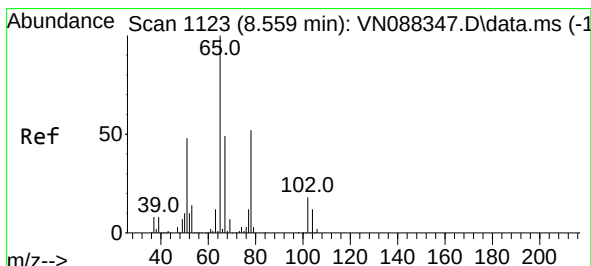
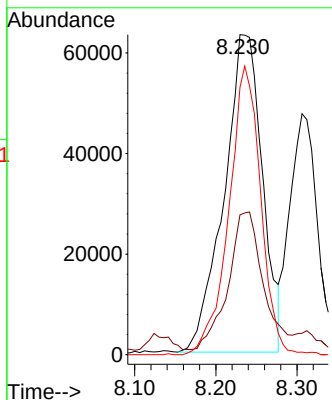
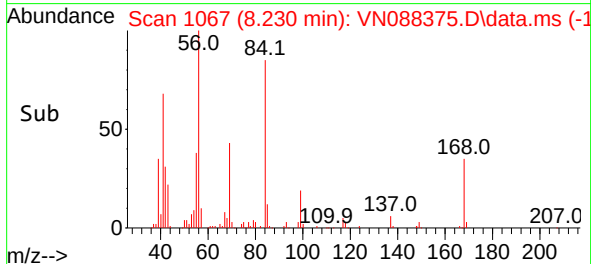
Instrument :
MSVOA_N
ClientSampleId :
MW6



Tgt Ion: 56 Resp: 207628
Ion Ratio Lower Upper
56 100
69 41.1 25.3 37.9
84 84.1 65.4 98.2

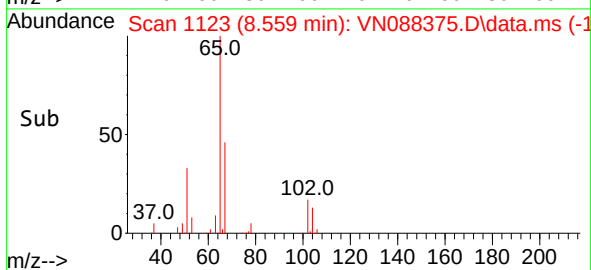
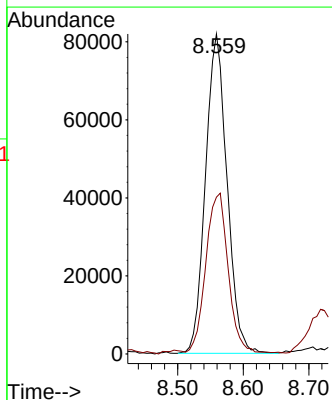
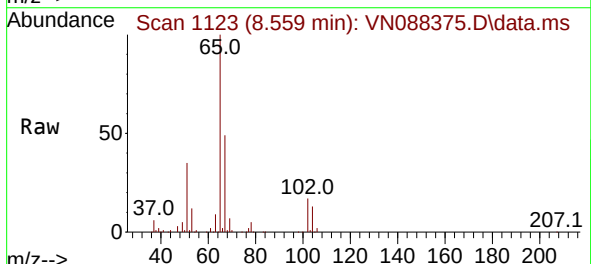
Manual Integrations
APPROVED

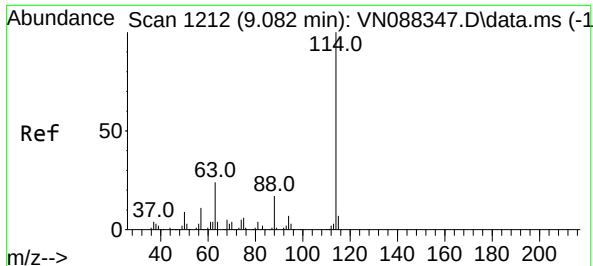
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#33
1,2-Dichloroethane-d4
Concen: 52.138 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Tgt Ion: 65 Resp: 186996
Ion Ratio Lower Upper
65 100
67 51.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN088375.D

Acq: 01 Dec 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

MW6

Tgt Ion:114 Resp: 42530

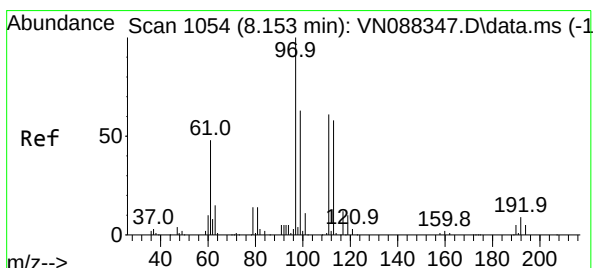
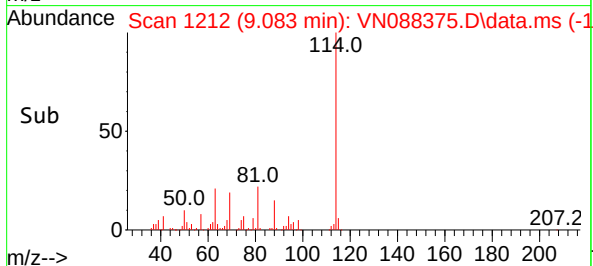
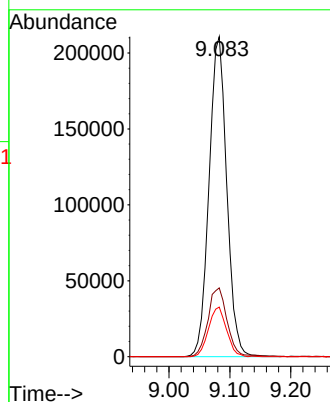
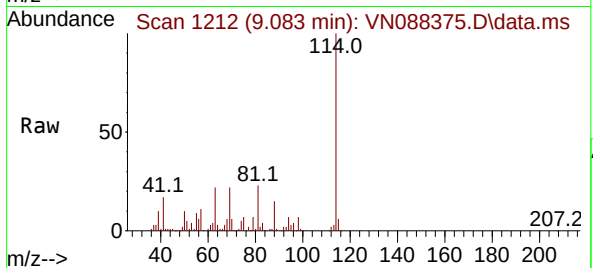
Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	49.0
88	15.5	0.0	34.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#35

Dibromofluoromethane

Concen: 49.291 ug/l

RT: 8.147 min Scan# 1053

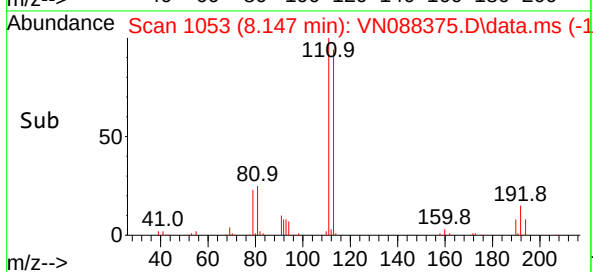
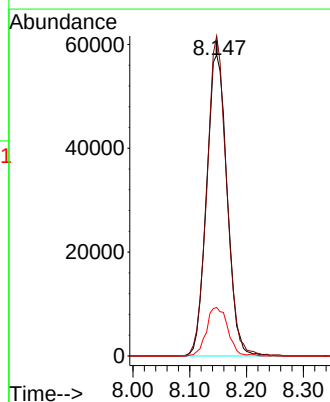
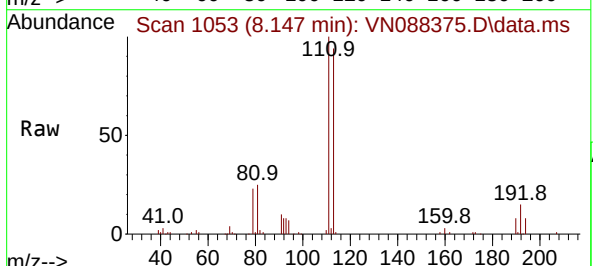
Delta R.T. -0.006 min

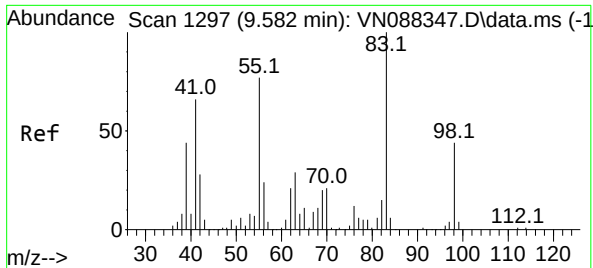
Lab File: VN088375.D

Acq: 01 Dec 2025 12:30

Tgt Ion:113 Resp: 145277

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.5	123.7
192	16.6	12.8	19.2





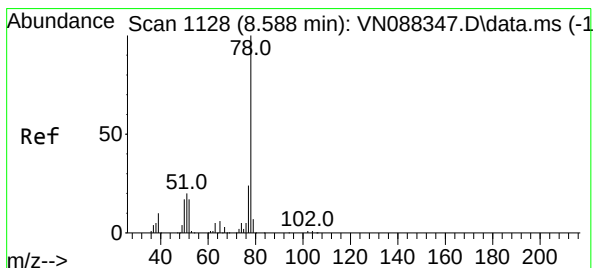
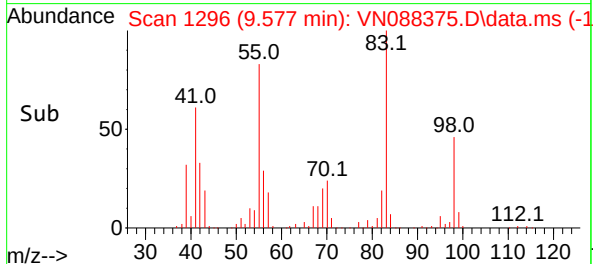
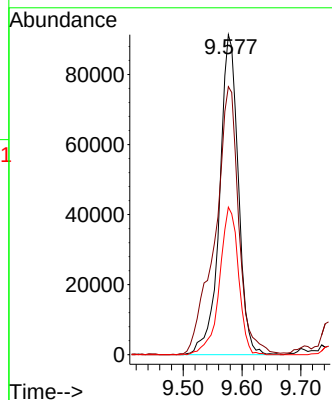
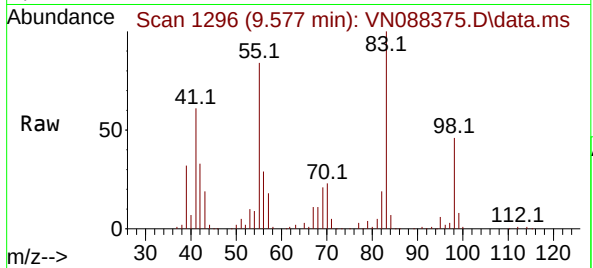
#39
Methylcyclohexane
Concen: 41.518 ug/l
RT: 9.577 min Scan# 11296
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Instrument :
MSVOA_N
ClientSampleId :
MW6

Tgt Ion: 83 Resp: 202004
Ion Ratio Lower Upper
83 100
55 83.4 61.6 92.4
98 46.1 35.3 52.9

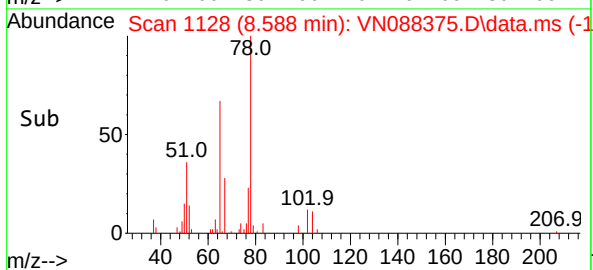
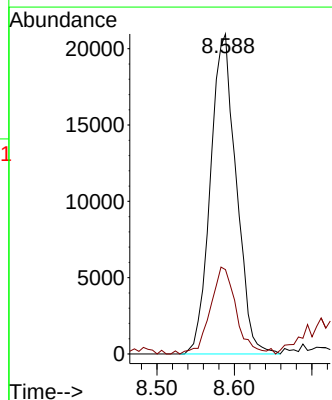
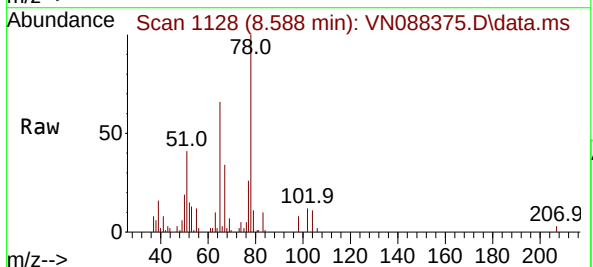
Manual Integrations
APPROVED

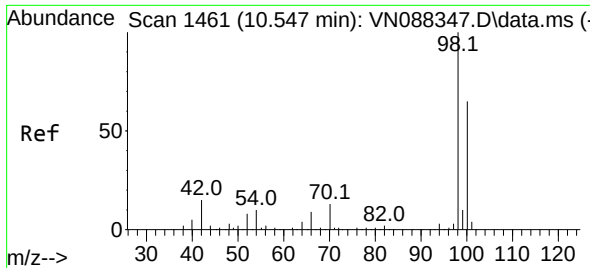
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#40
Benzene
Concen: 3.629 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

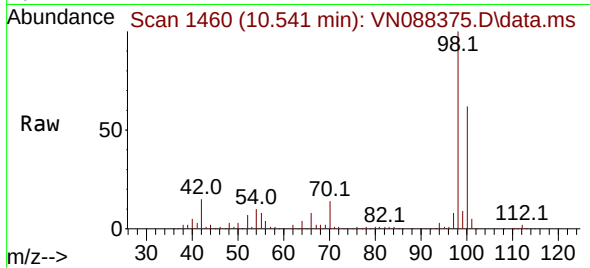
Tgt Ion: 78 Resp: 48442
Ion Ratio Lower Upper
78 100
77 26.3 19.0 28.4





#50
Toluene-d8
Concen: 49.901 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

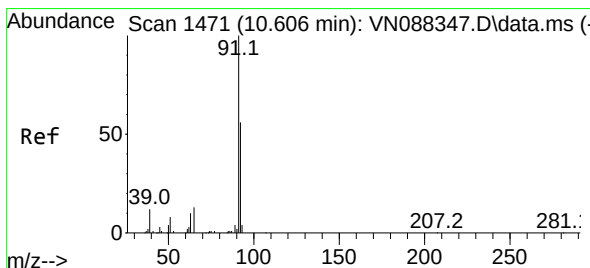
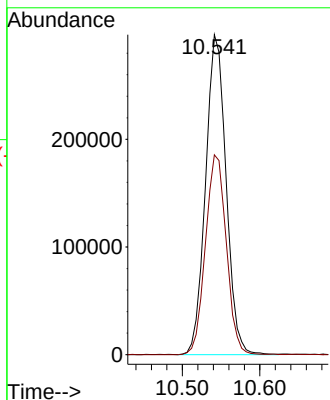
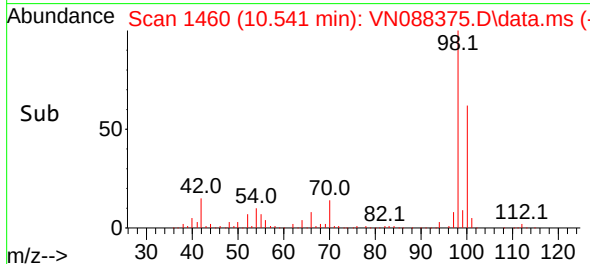
Instrument :
MSVOA_N
ClientSampleId :
MW6



Tgt Ion: 98 Resp: 547230
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2

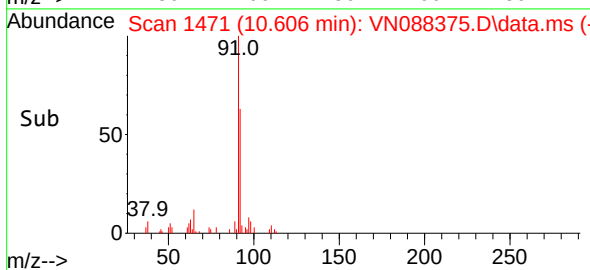
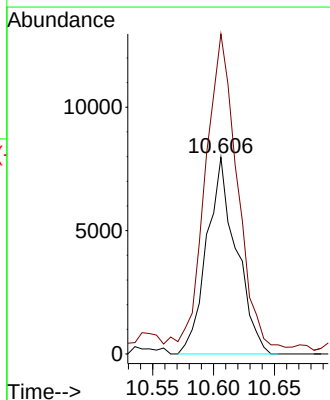
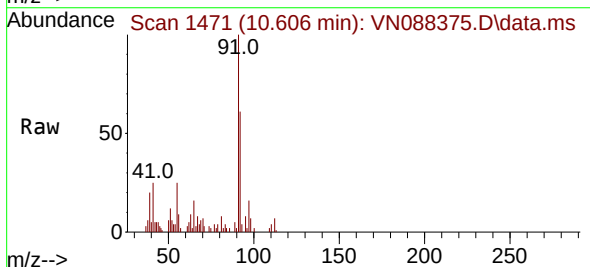
Manual Integrations
APPROVED

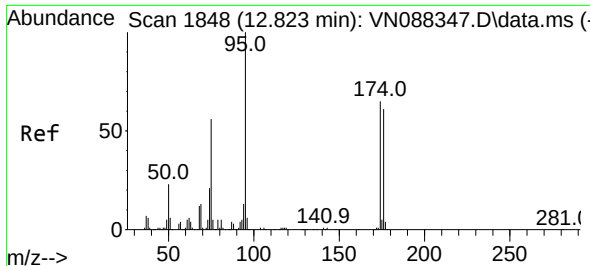
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#52
Toluene
Concen: 1.744 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

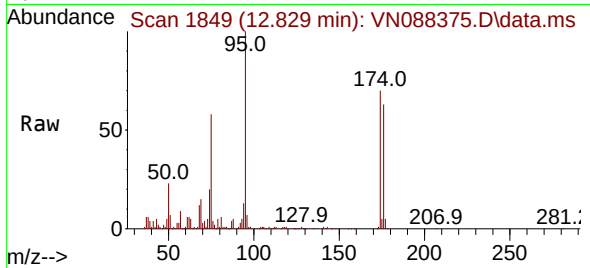
Tgt Ion: 92 Resp: 13442
Ion Ratio Lower Upper
92 100
91 174.3 140.2 210.2





#62
4-Bromofluorobenzene
Concen: 55.040 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

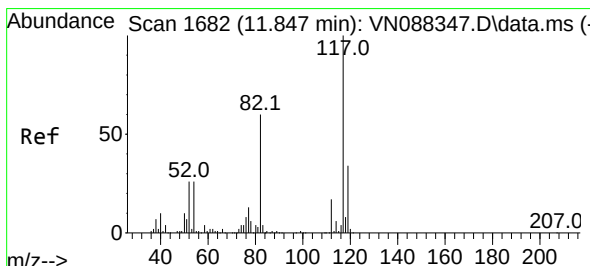
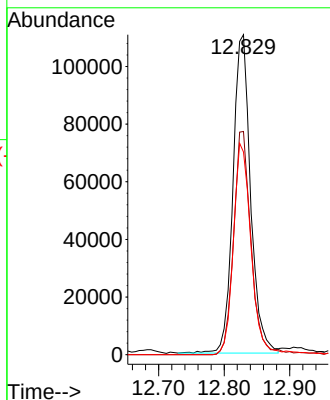
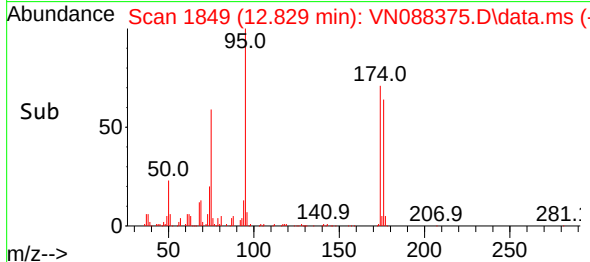
Instrument :
MSVOA_N
ClientSampleId :
MW6



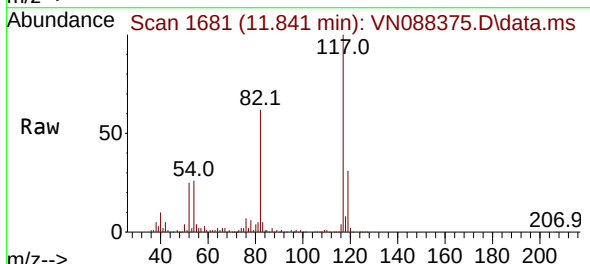
Tgt Ion: 95 Resp: 207102
Ion Ratio Lower Upper
95 100
174 69.5 0.0 139.0
176 67.3 0.0 132.4

Manual Integrations
APPROVED

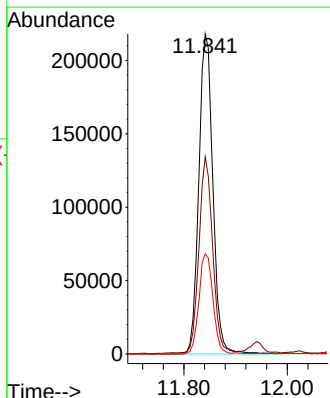
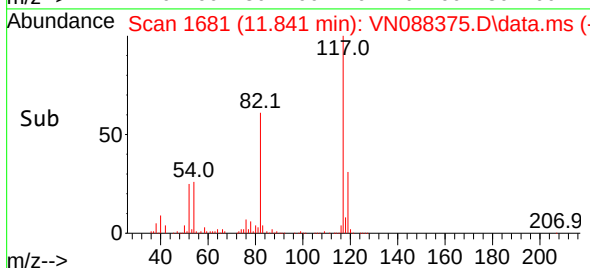
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

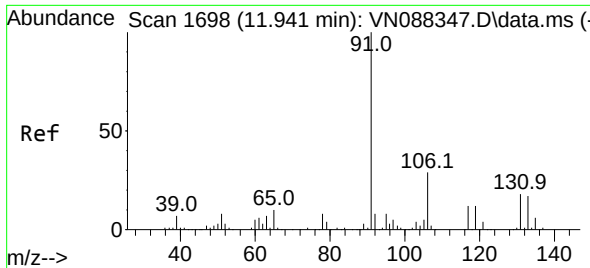


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30



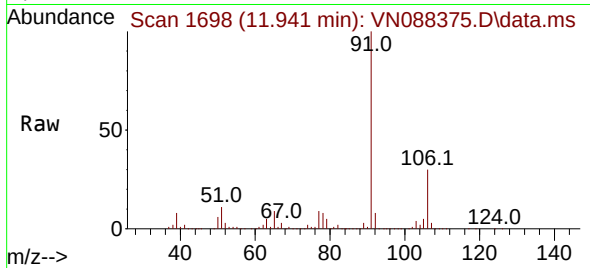
Tgt Ion:117 Resp: 411286
Ion Ratio Lower Upper
117 100
82 61.2 47.8 71.8
119 31.3 26.9 40.3





#67
Ethyl Benzene
Concen: 48.892 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

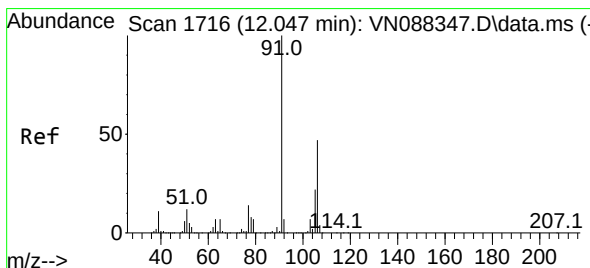
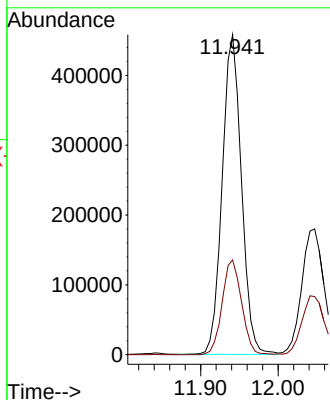
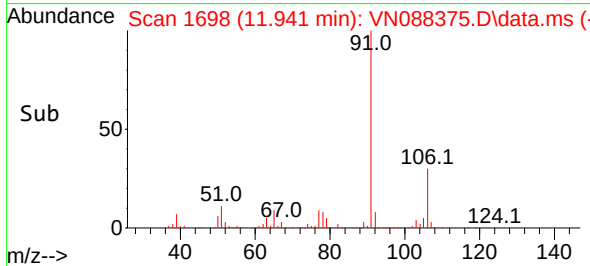
Instrument :
MSVOA_N
ClientSampleId :
MW6



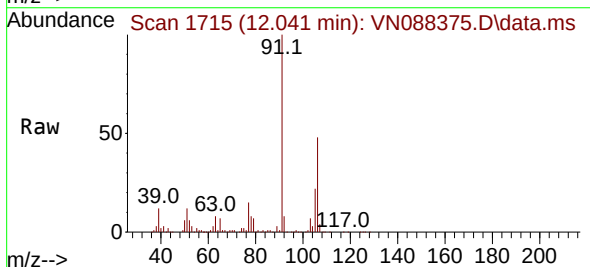
Tgt Ion: 91 Resp: 78943
Ion Ratio Lower Upper
91 100
106 29.6 23.6 35.4

Manual Integrations
APPROVED

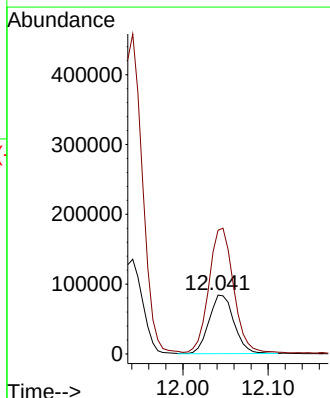
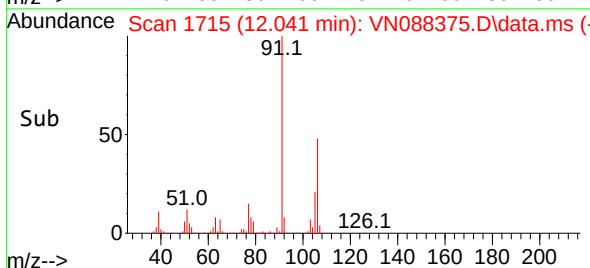
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

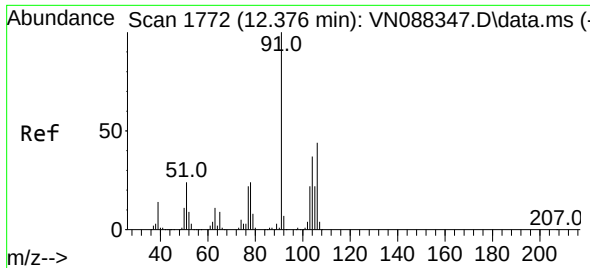


#68
m/p-Xylenes
Concen: 28.513 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30



Tgt Ion:106 Resp: 170697
Ion Ratio Lower Upper
106 100
91 211.0 167.8 251.6





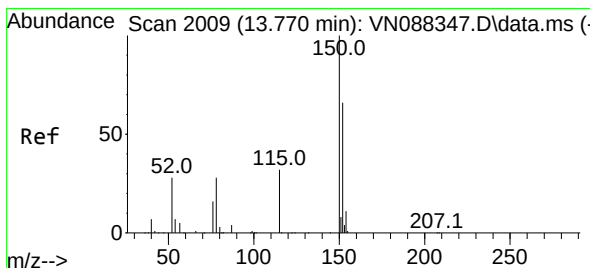
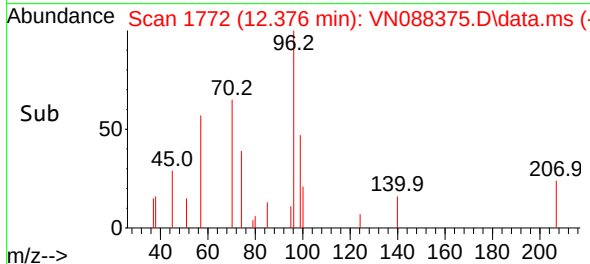
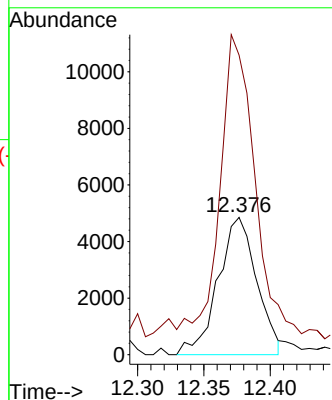
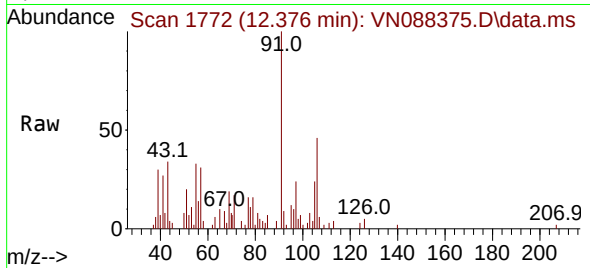
#69
o-Xylene
Concen: 1.730 ug/l m
RT: 12.376 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Instrument :
MSVOA_N
ClientSampleId :
MW6

Tgt Ion:106 Resp: 9872
Ion Ratio Lower Upper
106 100
91 0.0 112.9 338.7

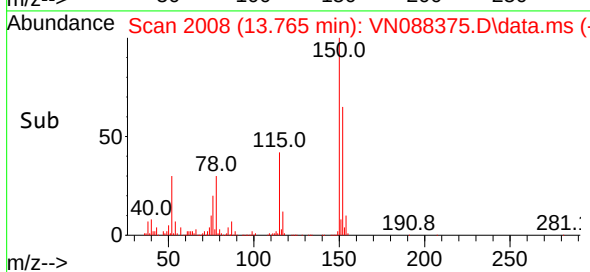
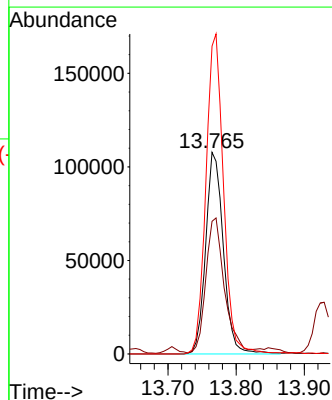
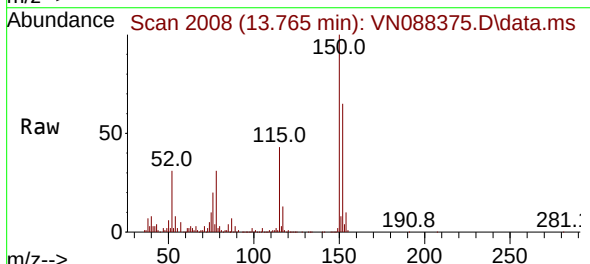
Manual Integrations
APPROVED

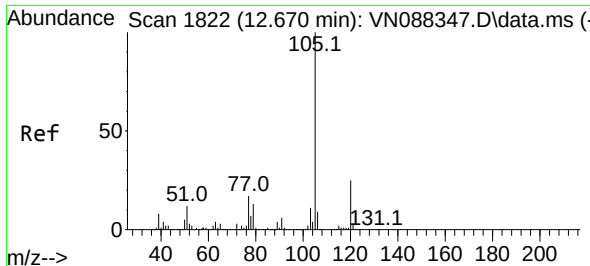
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.765 min Scan# 2008
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Tgt Ion:152 Resp: 194905
Ion Ratio Lower Upper
152 100
115 70.4 33.0 98.9
150 157.4 0.0 349.0





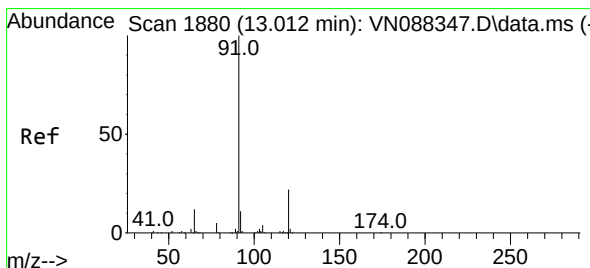
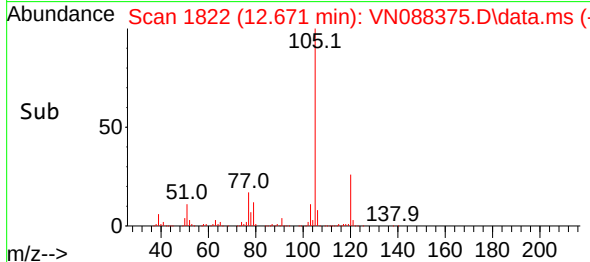
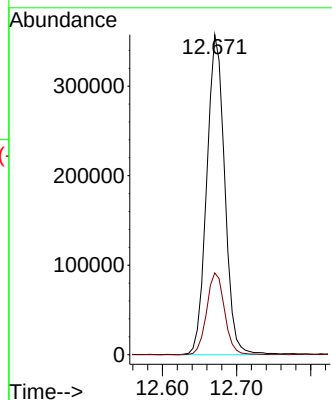
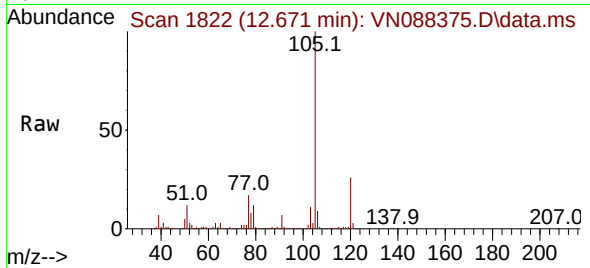
#73
Isopropylbenzene
Concen: 41.772 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Instrument :
MSVOA_N
ClientSampleId :
MW6

Tgt Ion:105 Resp: 601978
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.3

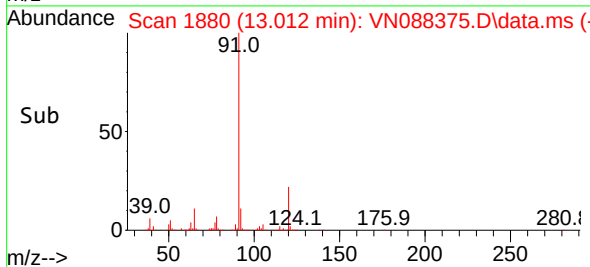
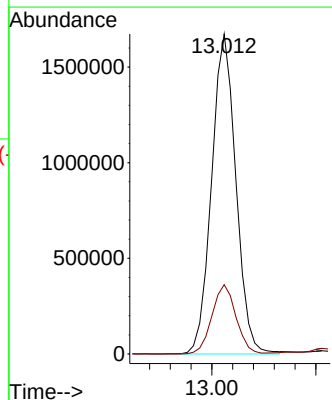
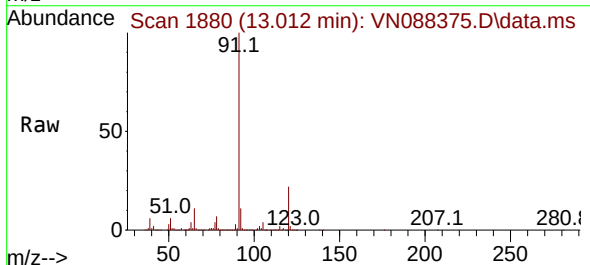
Manual Integrations
APPROVED

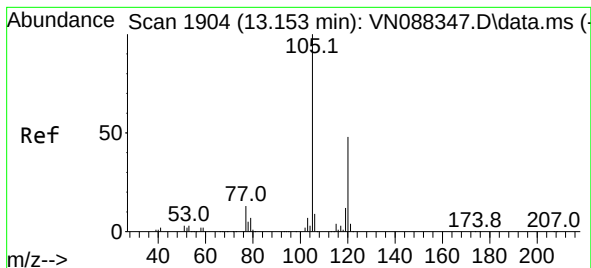
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#78
n-propylbenzene
Concen: 153.684 ug/l m
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

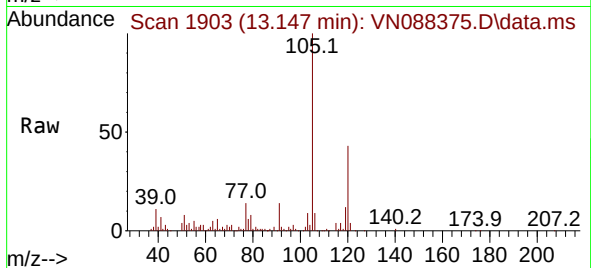
Tgt Ion: 91 Resp: 2709447
Ion Ratio Lower Upper
91 100
120 0.0 10.9 32.6#





#80
1,3,5-Trimethylbenzene
Concen: 12.908 ug/l
RT: 13.147 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

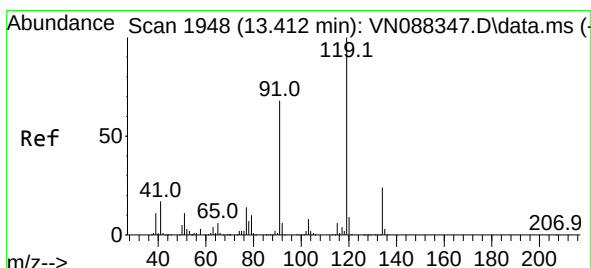
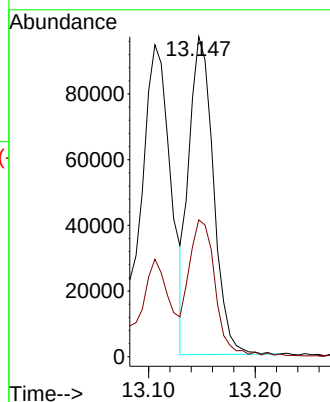
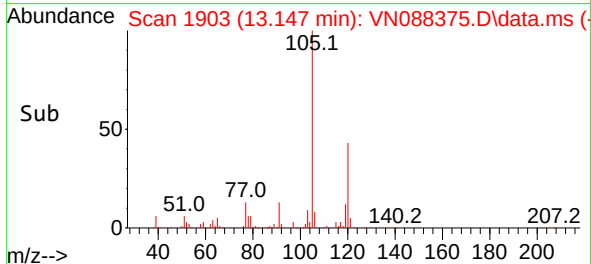
Instrument :
MSVOA_N
ClientSampleId :
MW6



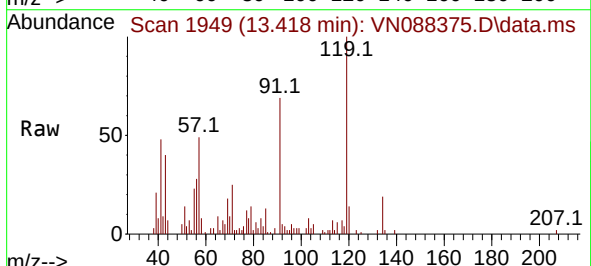
Tgt Ion:105 Resp: 15413
Ion Ratio Lower Upper
105 100
120 46.2 23.8 71.5

Manual Integrations
APPROVED

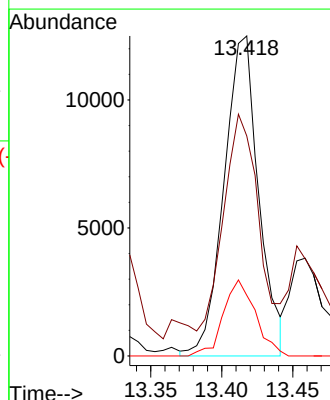
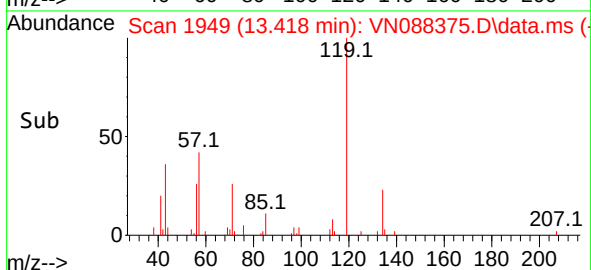
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

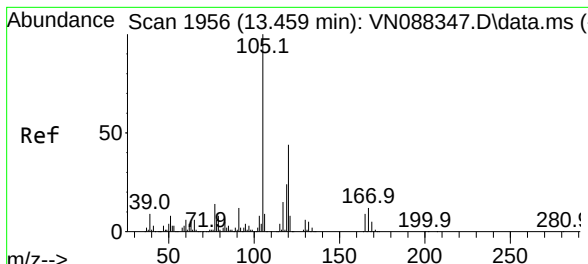


#83
tert-Butylbenzene
Concen: 2.092 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30



Tgt Ion:119 Resp: 21234
Ion Ratio Lower Upper
119 100
91 65.9 35.1 105.3
134 22.0 12.8 38.4





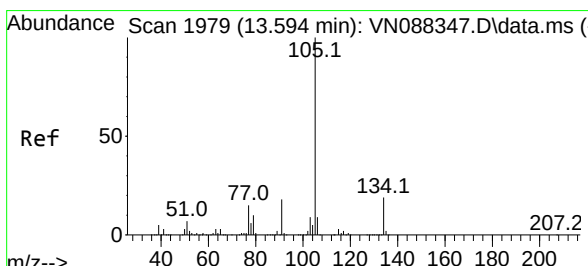
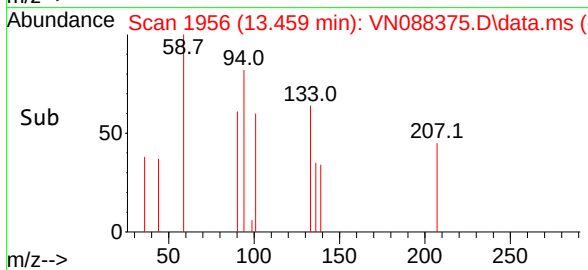
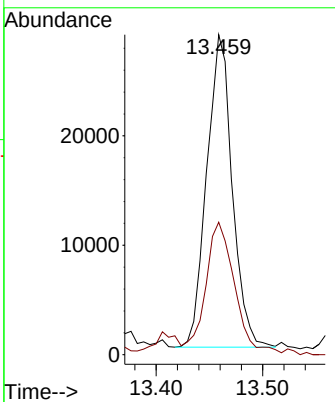
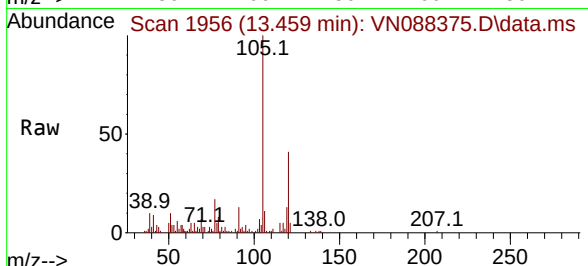
#84
 1,2,4-Trimethylbenzene
 Concen: 3.995 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. 0.000 min
 Lab File: VN088375.D
 Acq: 01 Dec 2025 12:30

Instrument : MSVOA_N
 ClientSampleId : MW6

Tgt Ion:105 Resp: 47419
 Ion Ratio Lower Upper
 105 100
 120 46.6 22.1 66.1

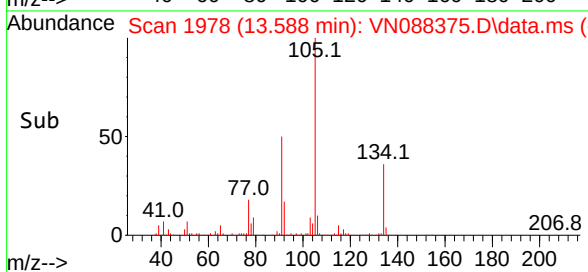
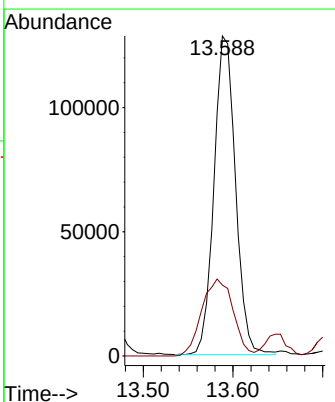
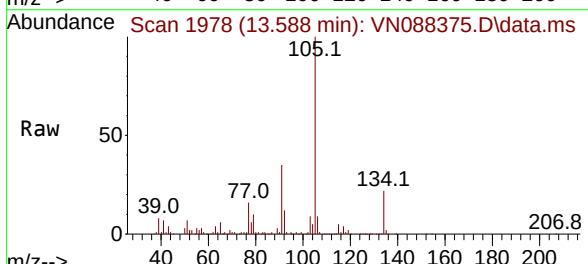
Manual Integrations
 APPROVED

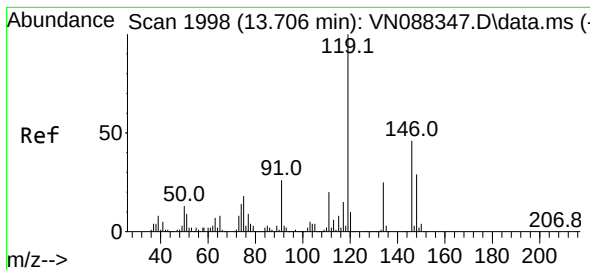
Reviewed By :John Carlone 12/02/2025
 Supervised By :Mahesh Dadoda 12/02/2025



#85
 sec-Butylbenzene
 Concen: 14.666 ug/l
 RT: 13.588 min Scan# 1978
 Delta R.T. -0.006 min
 Lab File: VN088375.D
 Acq: 01 Dec 2025 12:30

Tgt Ion:105 Resp: 213874
 Ion Ratio Lower Upper
 105 100
 134 35.1 9.5 28.5#





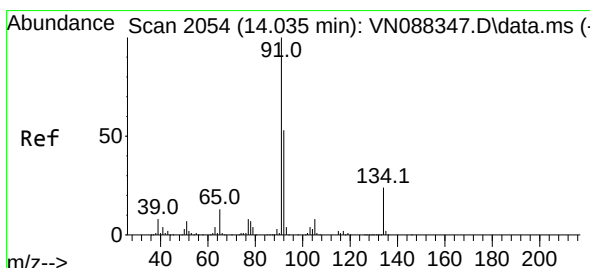
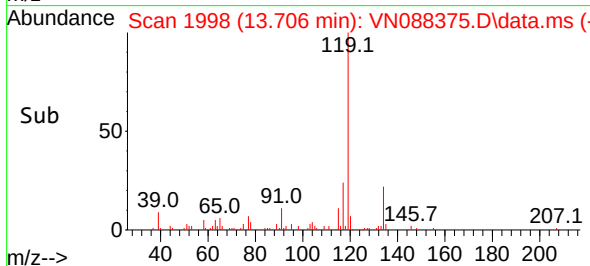
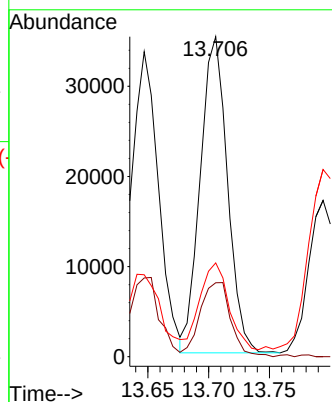
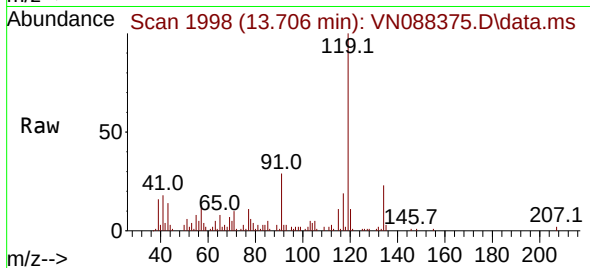
#86
p-Isopropyltoluene
Concen: 4.571 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Instrument :
MSVOA_N
ClientSampleId :
MW6

Tgt Ion: 119 Resp: 54659
Ion Ratio Lower Upper
119 100
134 26.4 12.2 36.6
91 29.0 13.0 39.0

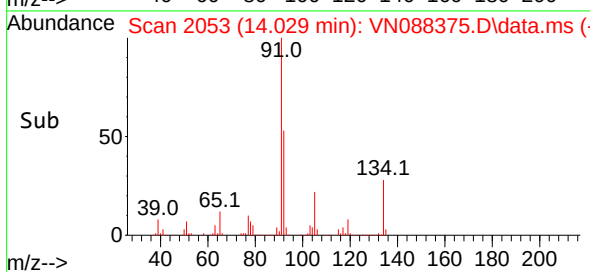
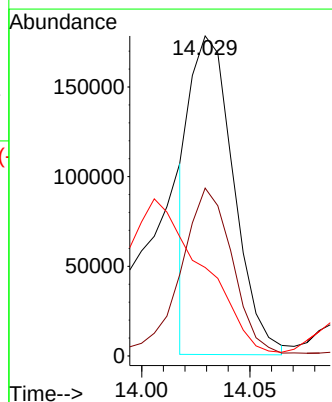
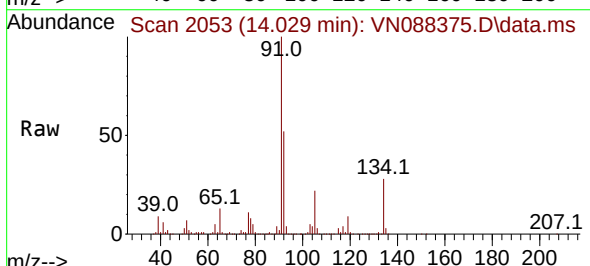
Manual Integrations
APPROVED

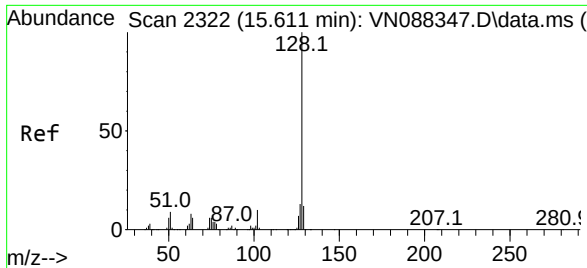
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#89
n-Butylbenzene
Concen: 21.459 ug/l m
RT: 14.029 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VN088375.D
Acq: 01 Dec 2025 12:30

Tgt Ion: 91 Resp: 249163
Ion Ratio Lower Upper
91 100
92 60.6 26.1 78.3
134 0.0 11.7 35.1#





#95

Naphthalene

Concen: 20.078 ug/l

RT: 15.612 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN088375.D

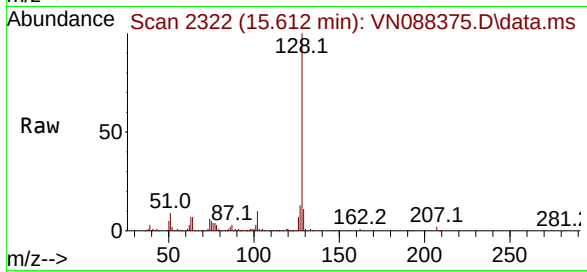
Acq: 01 Dec 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

MW6



Tgt Ion:128 Resp: 249692

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 10.7 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025

