

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088377.D
 Acq On : 01 Dec 2025 13:11
 Operator : JC\MD
 Sample : Q3716-01 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW5

Manual Integrations
 APPROVED

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

Quant Time: Dec 02 00:12:50 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)

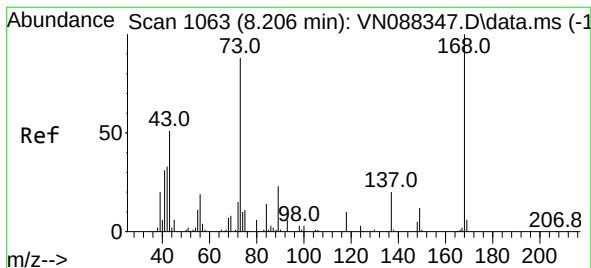
Internal Standards						
1) Pentafluorobenzene	8.206	168	183421	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	409344	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	394596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	195429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	186169	53.880	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.760%			
35) Dibromofluoromethane	8.147	113	143586	50.617	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.240%			
50) Toluene-d8	10.547	98	534292	50.620	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.240%			
62) 4-Bromofluorobenzene	12.829	95	195668	54.029	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.060%			
Target Compounds					Qvalue	
17) Carbon Disulfide	4.718	76	23479	3.211	ug/l #	91
25) 2-Butanone	7.477	43	54284	27.022	ug/l	97
31) Cyclohexane	8.241	56	116339	25.601	ug/l #	90
39) Methylcyclohexane	9.576	83	77832	16.621	ug/l	91
40) Benzene	8.588	78	285591	22.226	ug/l	100
52) Toluene	10.606	92	256896	34.624	ug/l	99
67) Ethyl Benzene	11.941	91	1259704	81.316	ug/l	98
68) m/p-Xylenes	12.047	106	2082018	362.488	ug/l	99
69) o-Xylene	12.376	106	686034	125.284	ug/l	100
73) Isopropylbenzene	12.670	105	82688	5.722	ug/l	100
78) n-propylbenzene	13.012	91	272873	15.436	ug/l	100
80) 1,3,5-Trimethylbenzene	13.147	105	969130	80.939	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	3325259	279.403	ug/l	99
85) sec-Butylbenzene	13.588	105	22420m	1.533	ug/l	
86) p-Isopropyltoluene	13.706	119	14583	1.216	ug/l #	72
89) n-Butylbenzene	14.023	91	15672m	1.346	ug/l	

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

Manual Integrations
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Quant Time: Dec 02 00:12:50 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# 1

Delta R.T. -0.000 min

Lab File: VN088377.D

Acq: 01 Dec 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion:168 Resp: 18342

Ion Ratio Lower Upper

168 100

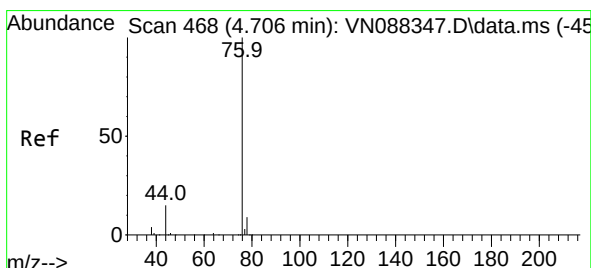
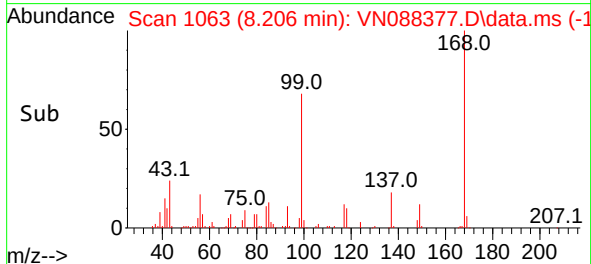
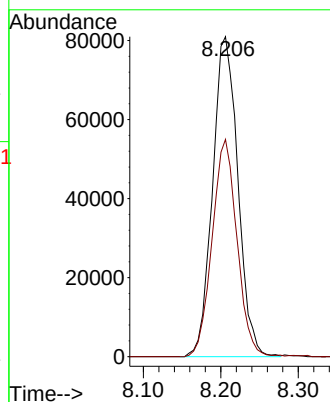
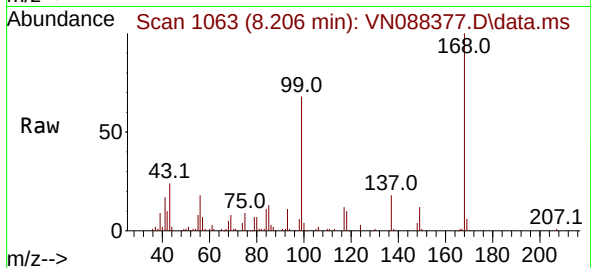
99 67.9 57.1 85.7

Manual Integrations

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Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#17

Carbon Disulfide

Concen: 3.211 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.012 min

Lab File: VN088377.D

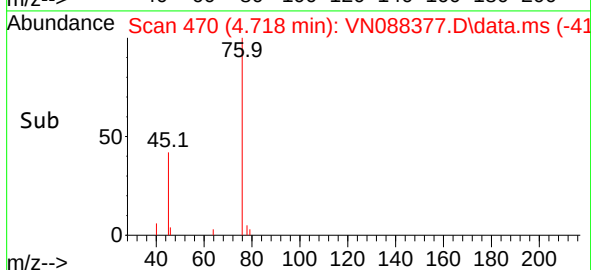
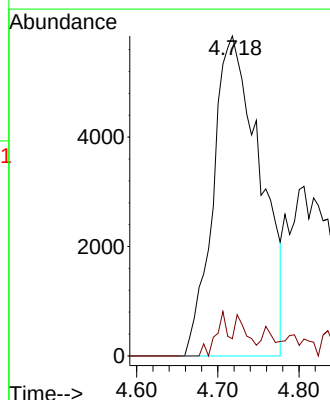
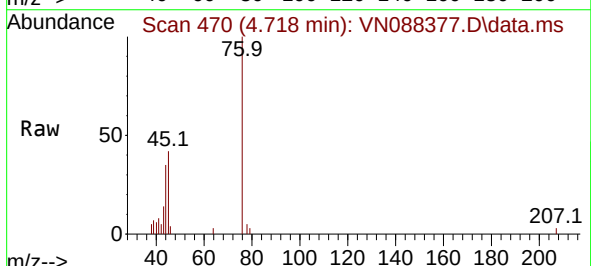
Acq: 01 Dec 2025 13:11

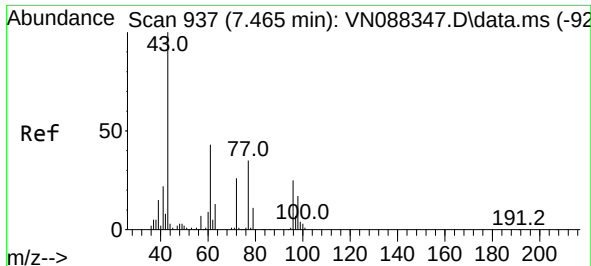
Tgt Ion: 76 Resp: 23479

Ion Ratio Lower Upper

76 100

78 5.4 7.0 10.4#





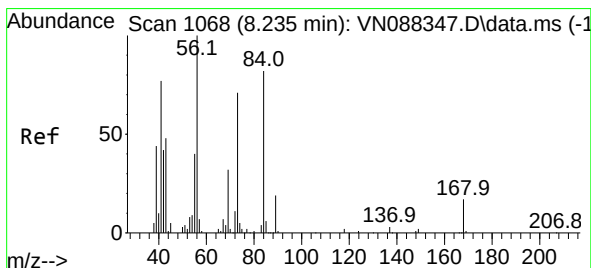
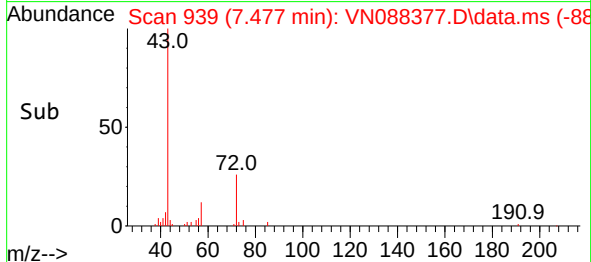
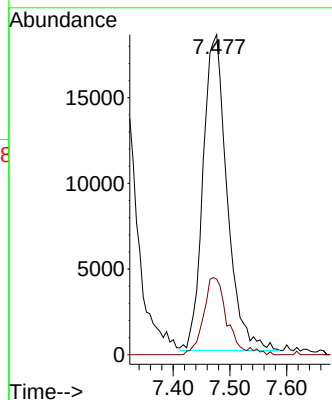
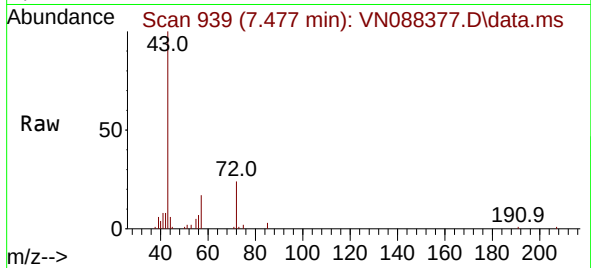
#25
2-Butanone
Concen: 27.022 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion: 43 Resp: 54284
Ion Ratio Lower Upper
43 100
72 23.9 20.5 30.7

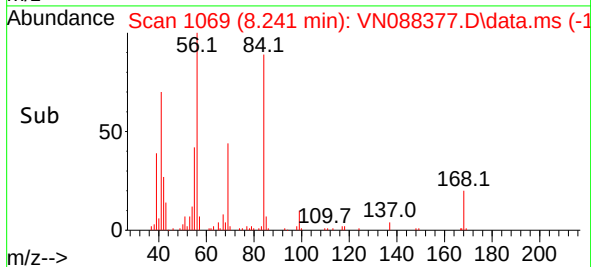
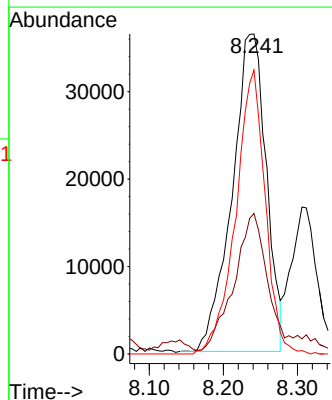
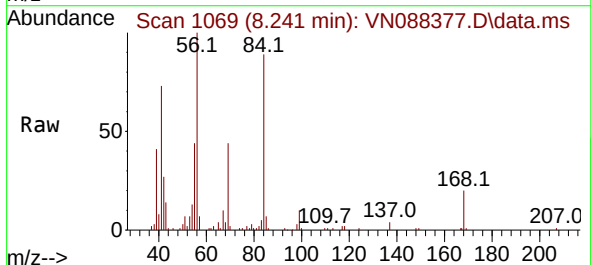
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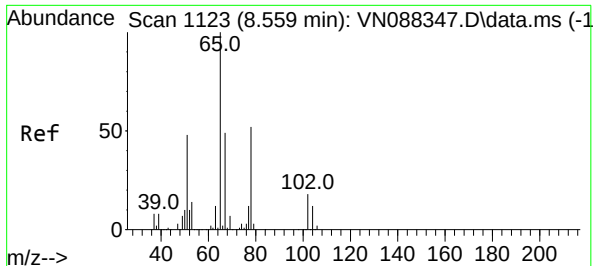
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#31
Cyclohexane
Concen: 25.601 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

Tgt Ion: 56 Resp: 116339
Ion Ratio Lower Upper
56 100
69 39.8 25.3 37.9#
84 89.4 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 53.880 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088377.D

Acq: 01 Dec 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion: 65 Resp: 186169

Ion Ratio Lower Upper

65 100

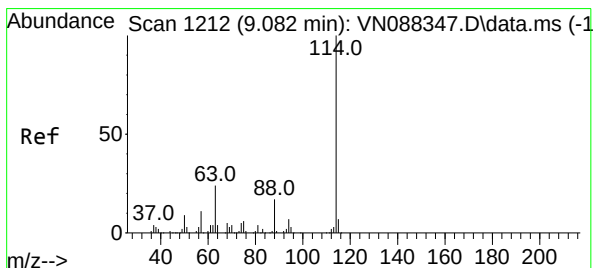
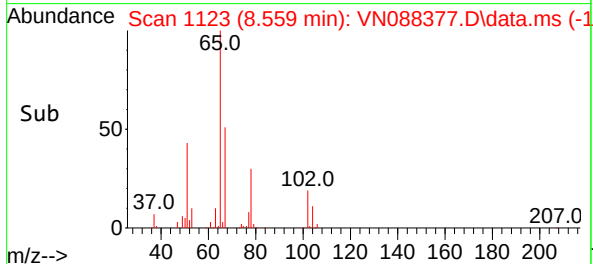
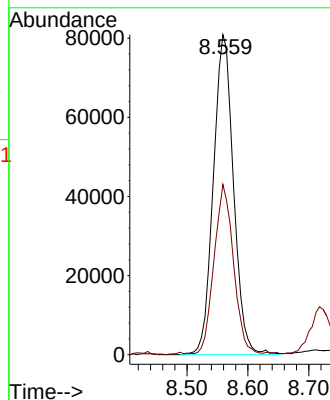
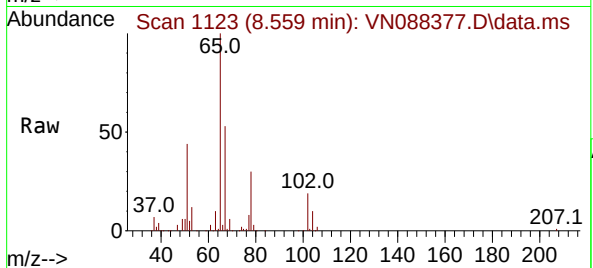
67 50.6 0.0 100.8

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Supervised By :Mahesh Dadoda 12/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088377.D

Acq: 01 Dec 2025 13:11

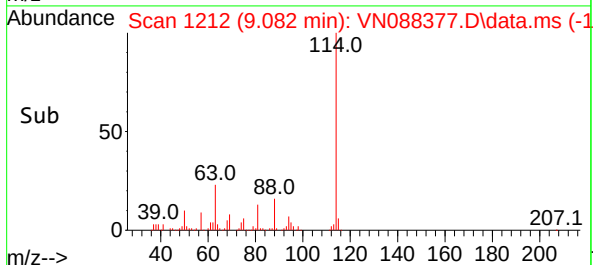
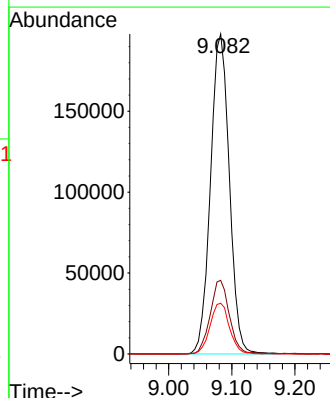
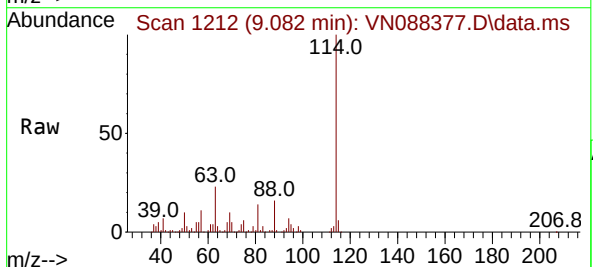
Tgt Ion:114 Resp: 409344

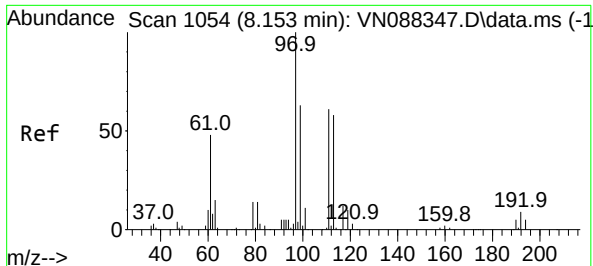
Ion Ratio Lower Upper

114 100

63 23.0 0.0 49.0

88 15.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.617 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088377.D

Acq: 01 Dec 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion:113 Resp: 143586

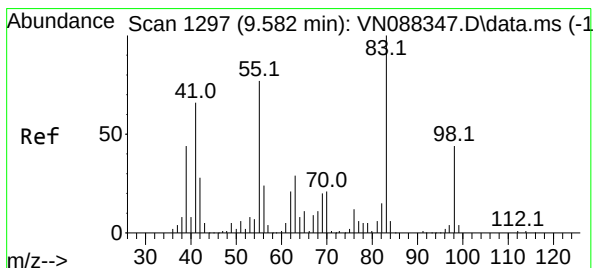
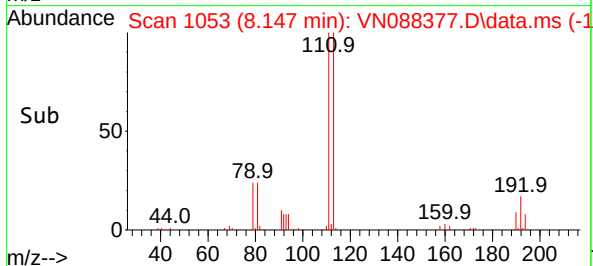
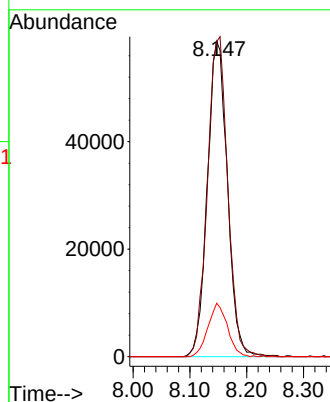
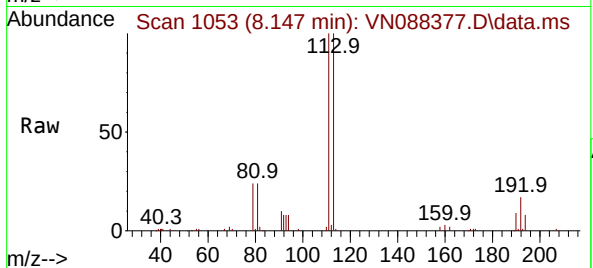
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.5	123.7
192	16.5	12.8	19.2

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Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#39

Methylcyclohexane

Concen: 16.621 ug/l

RT: 9.576 min Scan# 1296

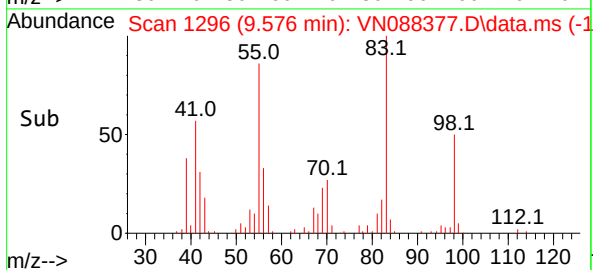
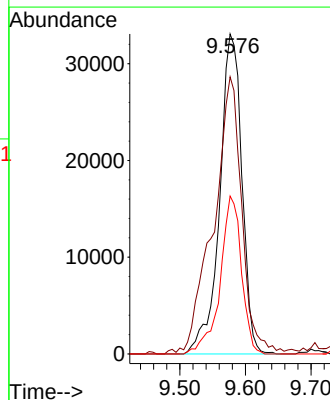
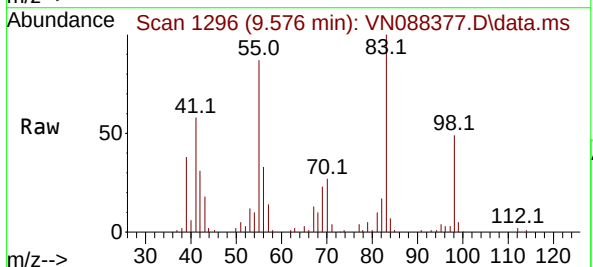
Delta R.T. -0.006 min

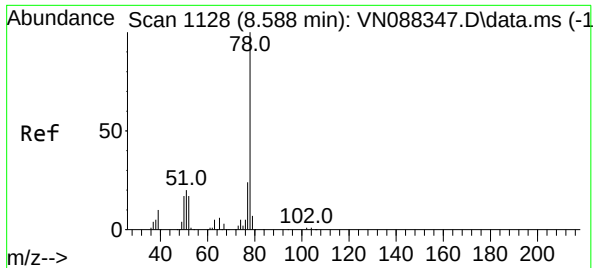
Lab File: VN088377.D

Acq: 01 Dec 2025 13:11

Tgt Ion: 83 Resp: 77832

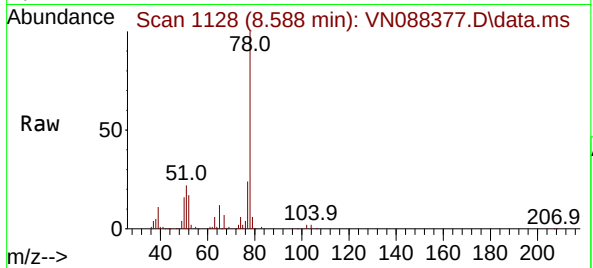
Ion	Ratio	Lower	Upper
83	100		
55	84.9	61.6	92.4
98	49.3	35.3	52.9





#40
Benzene
Concen: 22.226 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

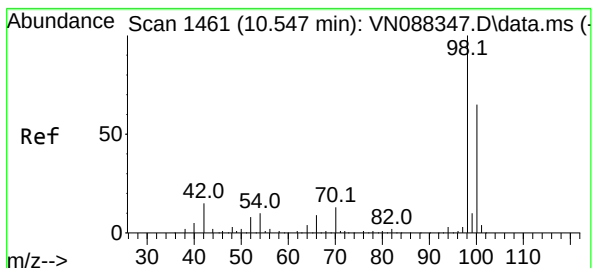
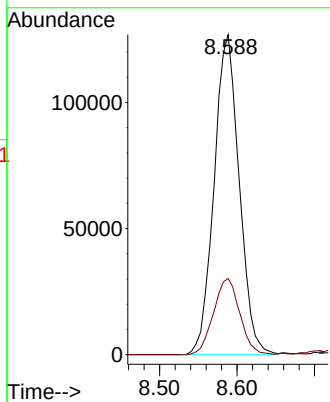
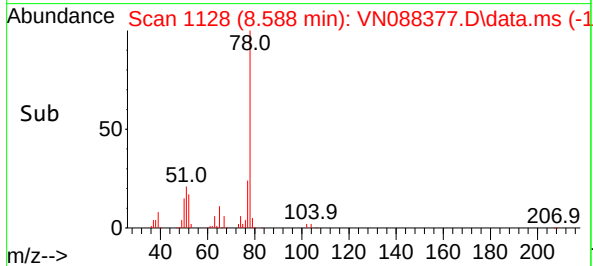
Instrument :
MSVOA_N
ClientSampleId :
MW5



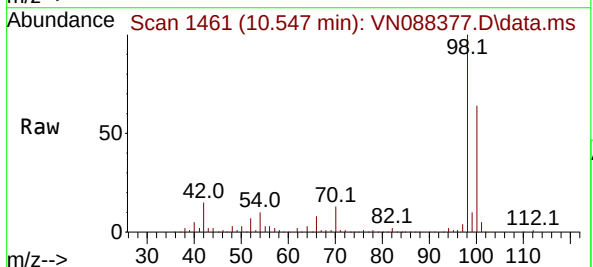
Tgt Ion: 78 Resp: 28559
Ion Ratio Lower Upper
78 100
77 23.8 19.0 28.4

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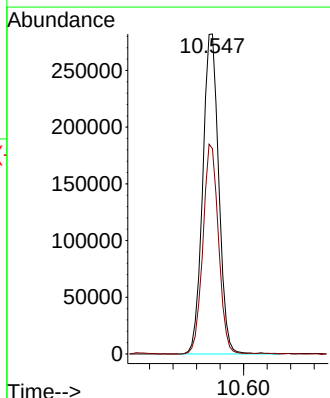
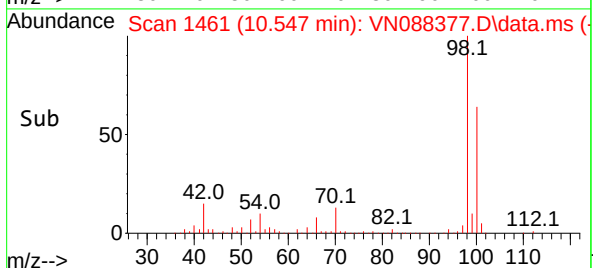
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

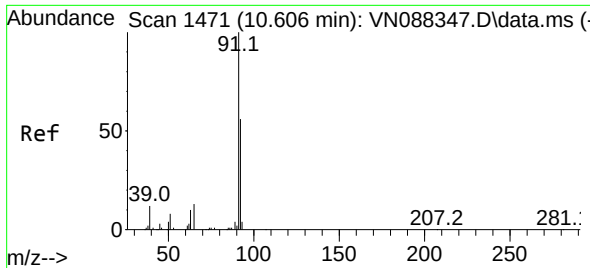


#50
Toluene-d8
Concen: 50.620 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11



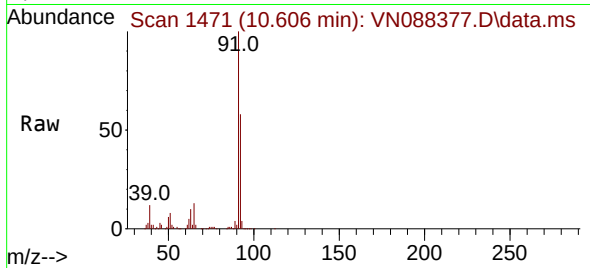
Tgt Ion: 98 Resp: 534292
Ion Ratio Lower Upper
98 100
100 63.6 52.2 78.2





#52
Toluene
Concen: 34.624 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

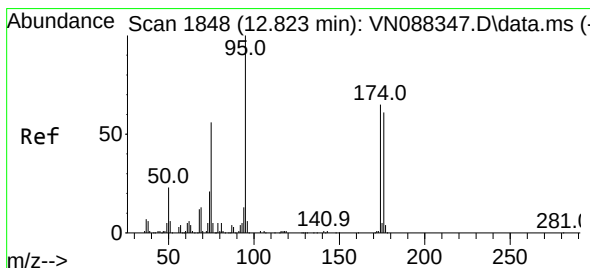
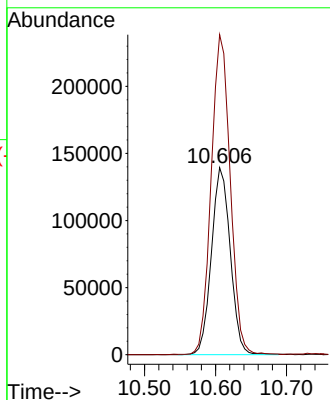
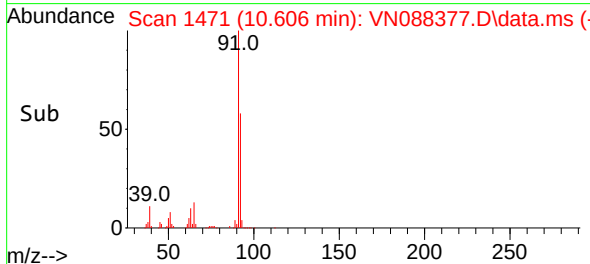
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion: 92 Resp: 256890
Ion Ratio Lower Upper
92 100
91 173.4 140.2 210.2

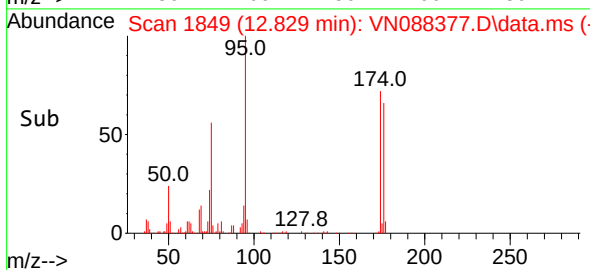
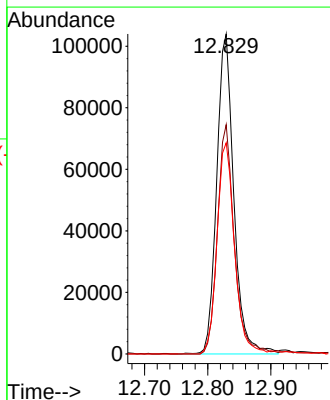
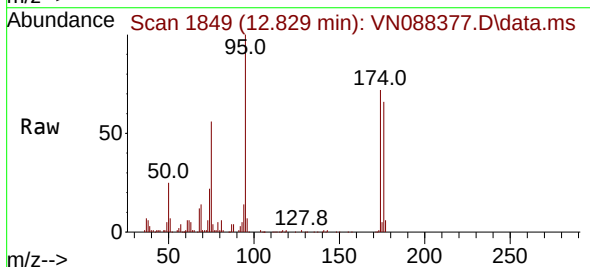
Manual Integrations
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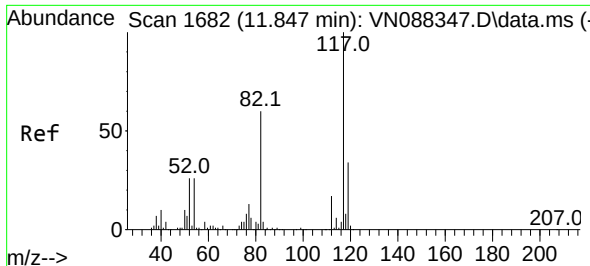
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#62
4-Bromofluorobenzene
Concen: 54.029 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

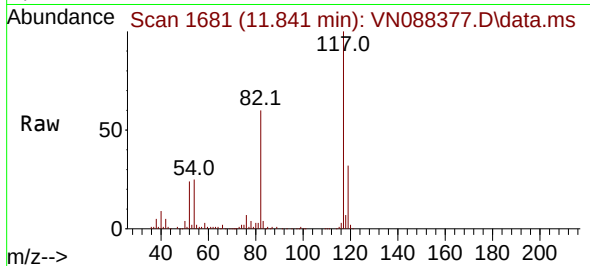
Tgt Ion: 95 Resp: 195668
Ion Ratio Lower Upper
95 100
174 70.3 0.0 139.0
176 67.2 0.0 132.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

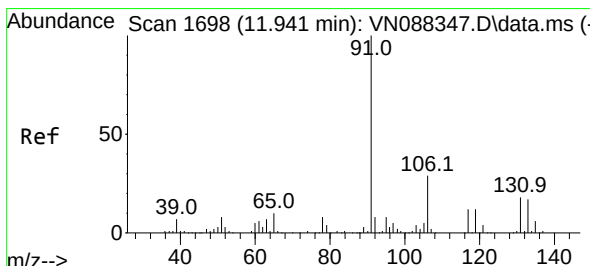
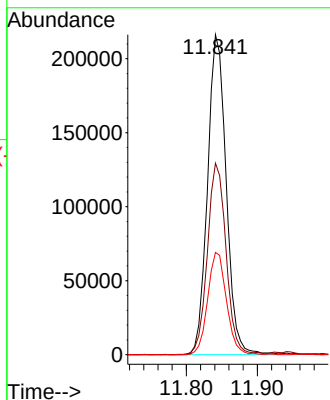
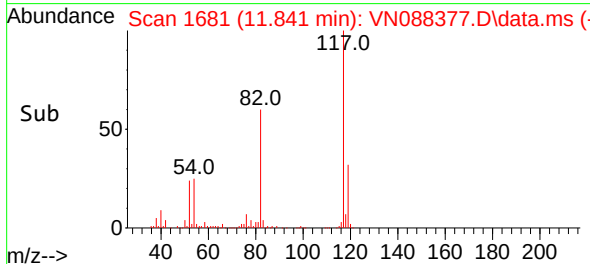
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion:117 Resp: 394590
Ion Ratio Lower Upper
117 100
82 59.7 47.8 71.8
119 32.0 26.9 40.3

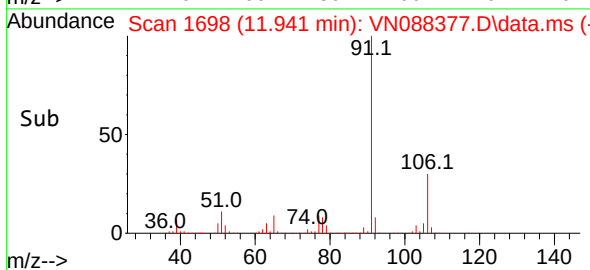
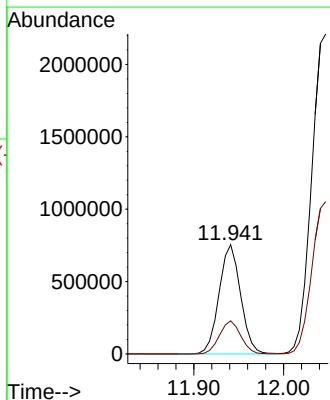
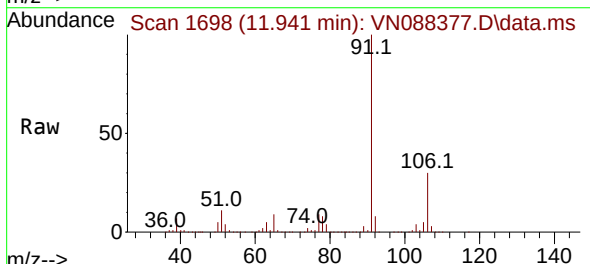
Manual Integrations
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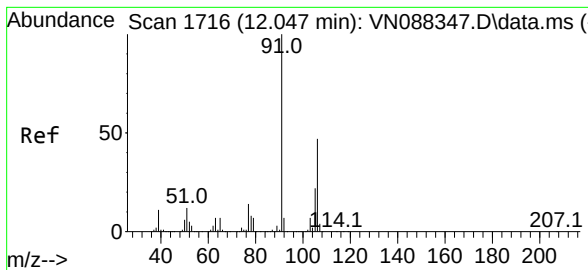
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#67
Ethyl Benzene
Concen: 81.316 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

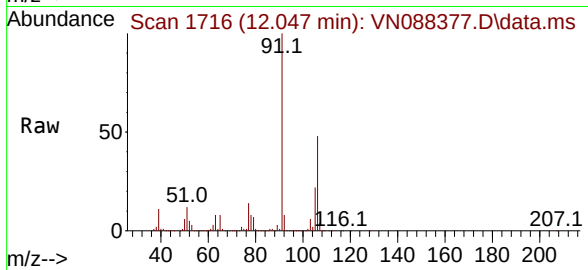
Tgt Ion: 91 Resp: 1259704
Ion Ratio Lower Upper
91 100
106 30.3 23.6 35.4





#68
m/p-Xylenes
Concen: 362.488 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

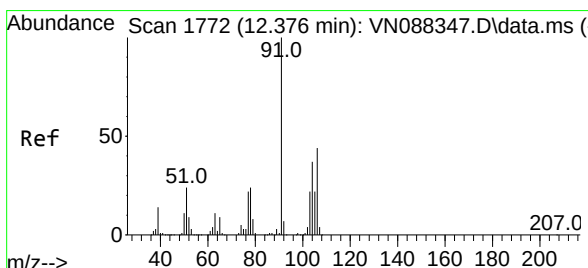
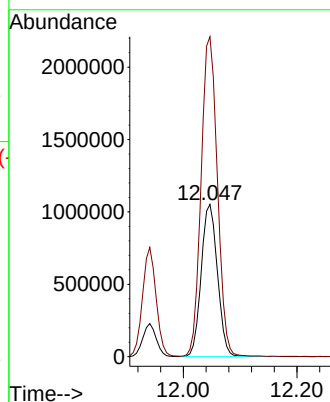
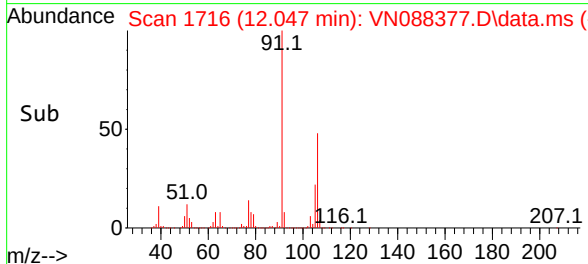
Instrument :
MSVOA_N
ClientSampleId :
MW5



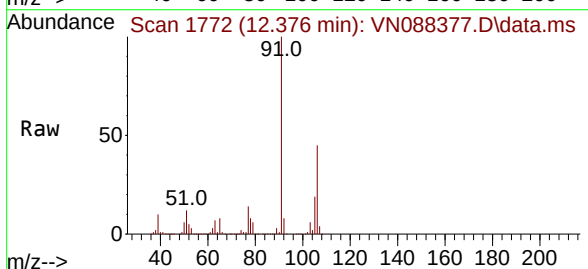
Tgt Ion:106 Resp: 2082018
Ion Ratio Lower Upper
106 100
91 210.9 167.8 251.6

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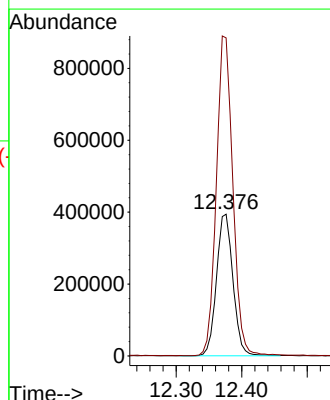
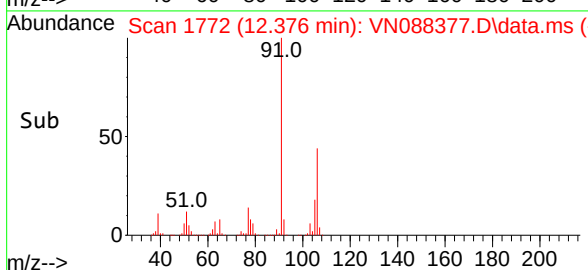
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

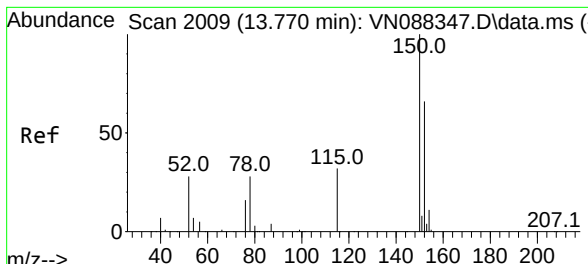


#69
o-Xylene
Concen: 125.284 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11



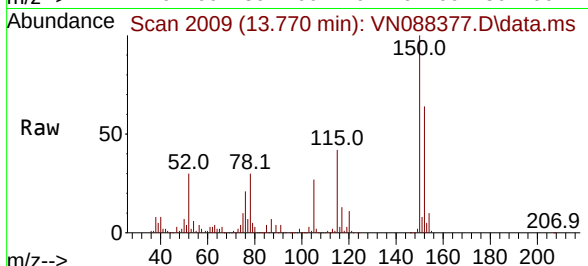
Tgt Ion:106 Resp: 686034
Ion Ratio Lower Upper
106 100
91 226.0 112.9 338.7





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN088377.D
 Acq: 01 Dec 2025 13:11

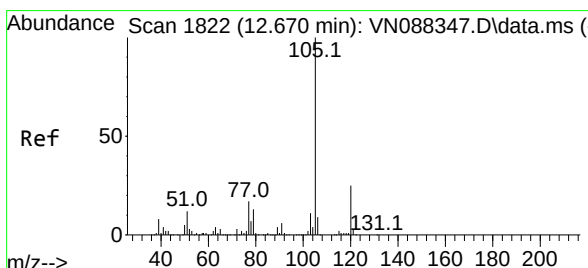
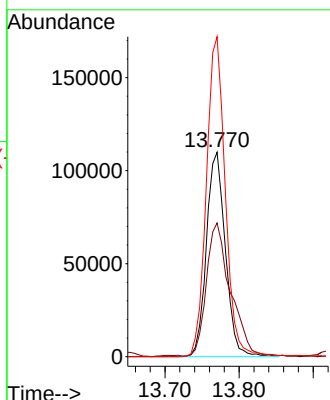
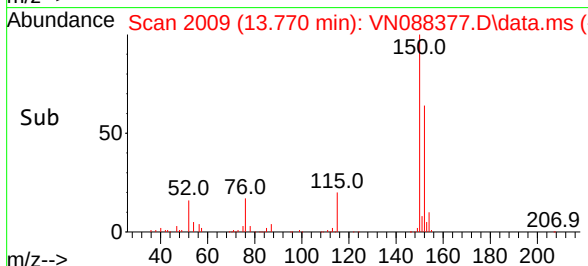
Instrument :
 MSVOA_N
 ClientSampleId :
 MW5



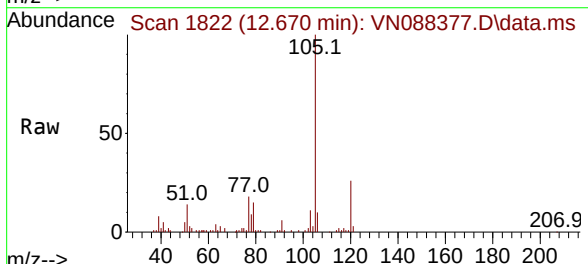
Tgt Ion:152 Resp: 195429
 Ion Ratio Lower Upper
 152 100
 115 82.2 33.0 98.9
 150 156.0 0.0 349.0

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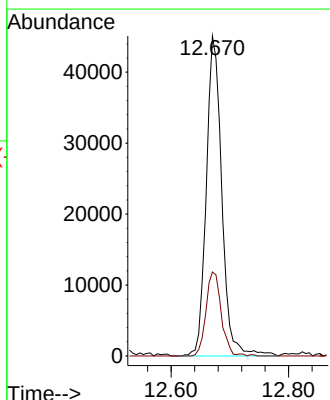
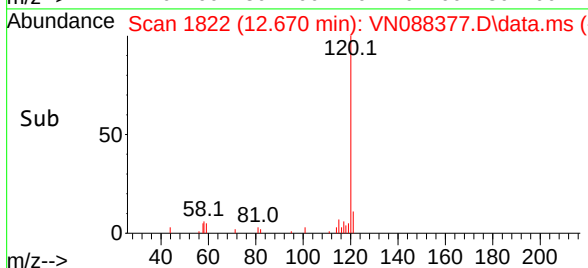
Reviewed By :John Carlone 12/02/2025
 Supervised By :Mahesh Dadoda 12/02/2025

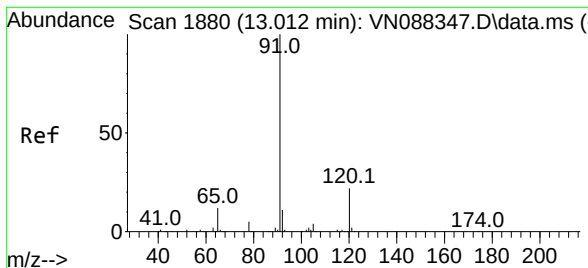


#73
 Isopropylbenzene
 Concen: 5.722 ug/l
 RT: 12.670 min Scan# 1822
 Delta R.T. 0.000 min
 Lab File: VN088377.D
 Acq: 01 Dec 2025 13:11



Tgt Ion:105 Resp: 82688
 Ion Ratio Lower Upper
 105 100
 120 25.6 12.8 38.3





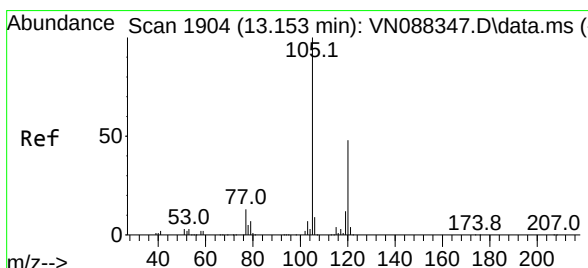
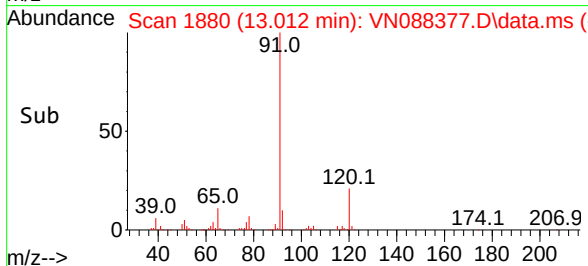
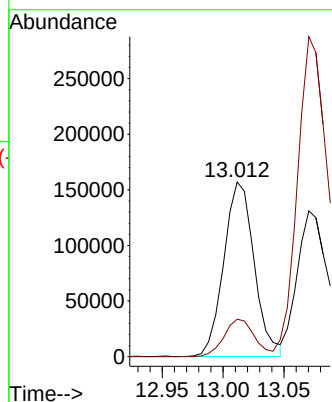
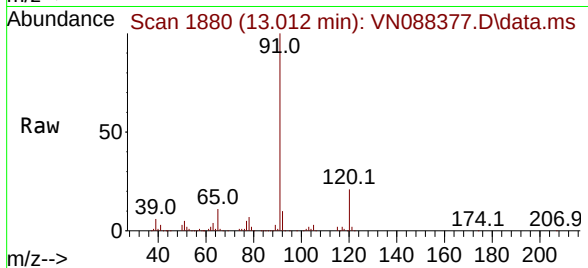
#78
n-propylbenzene
Concen: 15.436 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion: 91 Resp: 27287
Ion Ratio Lower Upper
91 100
120 21.7 10.9 32.6

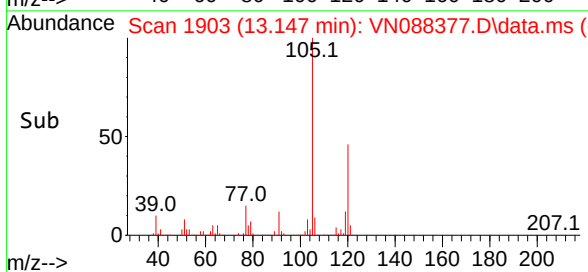
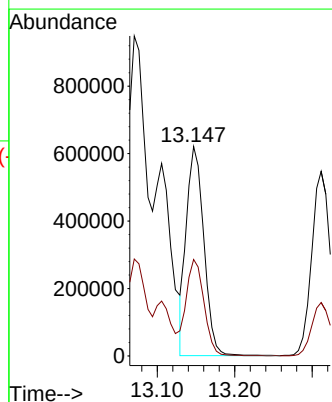
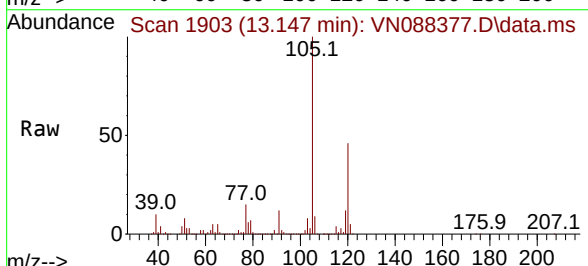
Manual Integrations
APPROVED

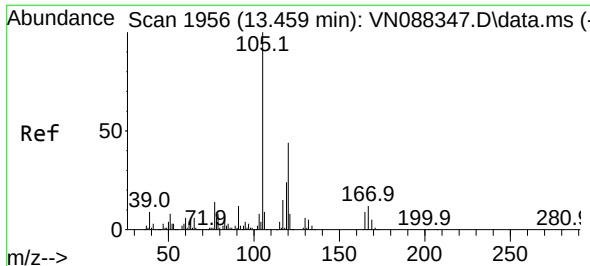
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#80
1,3,5-Trimethylbenzene
Concen: 80.939 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

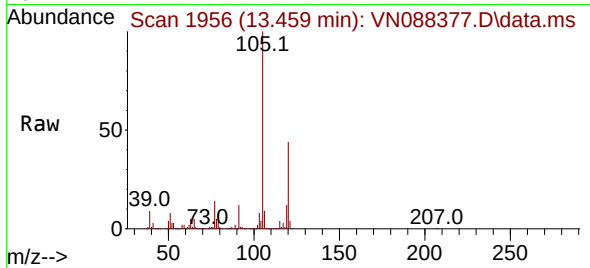
Tgt Ion:105 Resp: 969130
Ion Ratio Lower Upper
105 100
120 48.8 23.8 71.5





#84
1,2,4-Trimethylbenzene
Concen: 279.403 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

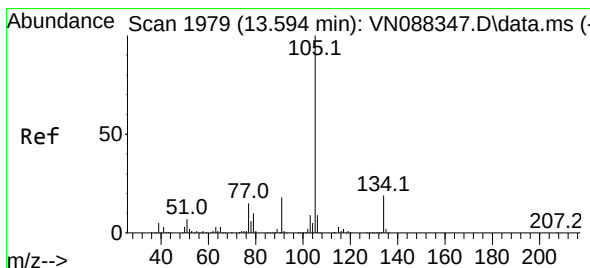
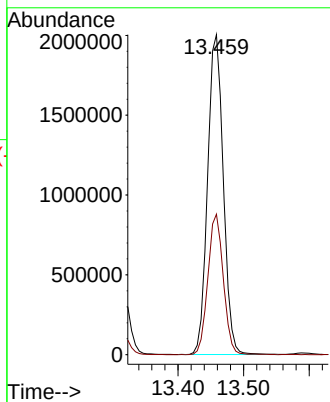
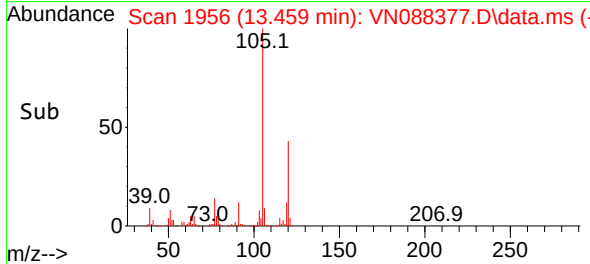
Instrument :
MSVOA_N
ClientSampleId :
MW5



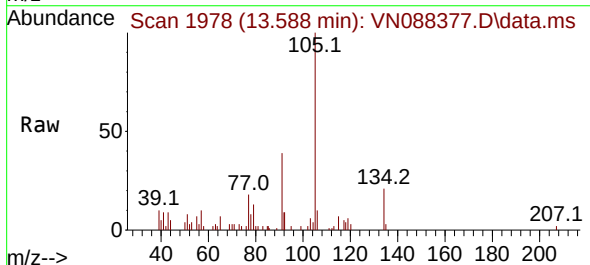
Tgt Ion:105 Resp: 332525
Ion Ratio Lower Upper
105 100
120 43.2 22.1 66.1

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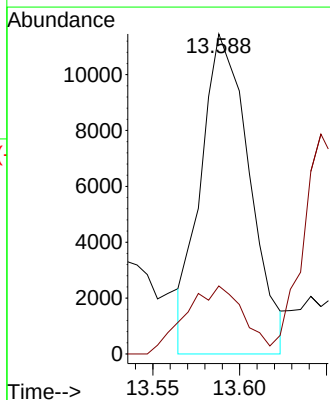
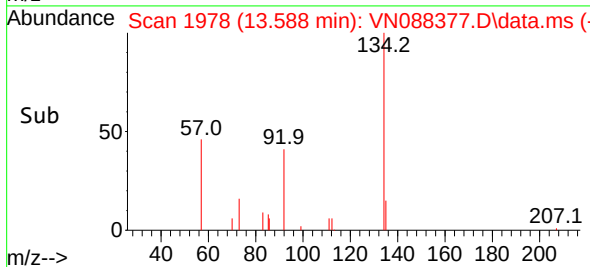
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

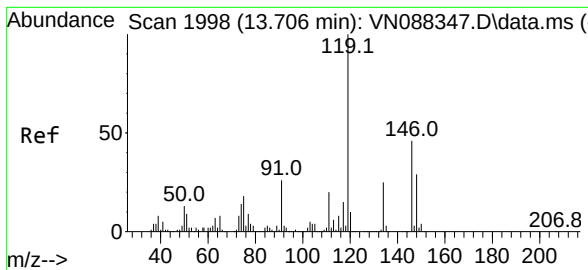


#85
sec-Butylbenzene
Concen: 1.533 ug/l m
RT: 13.588 min Scan# 1978
Delta R.T. -0.006 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11



Tgt Ion:105 Resp: 22420
Ion Ratio Lower Upper
105 100
134 0.0 9.5 28.5#





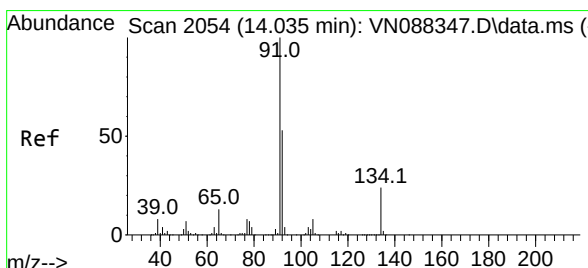
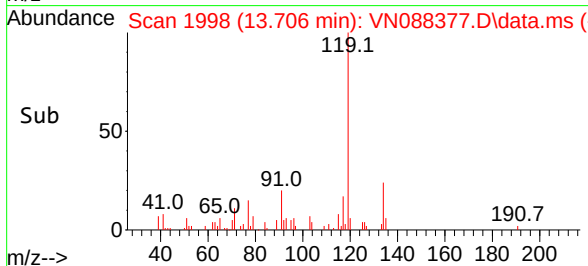
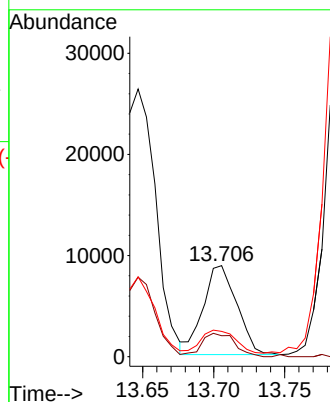
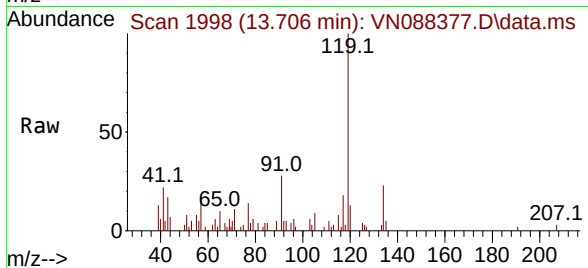
#86
p-Isopropyltoluene
Concen: 1.216 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion: 119 Resp: 14583
Ion Ratio Lower Upper
119 100
134 25.7 12.2 36.6
91 0.0 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: 1.346 ug/l m
RT: 14.023 min Scan# 2052
Delta R.T. -0.012 min
Lab File: VN088377.D
Acq: 01 Dec 2025 13:11

Tgt Ion: 91 Resp: 15672
Ion Ratio Lower Upper
91 100
92 0.0 26.1 78.3#
134 0.0 11.7 35.1#

