

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120925\
 Data File : VN088477.D
 Acq On : 09 Dec 2025 14:05
 Operator : JC\MD
 Sample : Q3784-03 20X
 Misc : 7.03g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB3A

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/10/2025
 Supervised By : Mahesh Dadoda 12/11/2025

Quant Time: Dec 10 05:06:48 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	229100	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	515203	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	538236	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	266826	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	257201	59.595	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 119.200%	
35) Dibromofluoromethane	8.147	113	180222	50.478	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.960%	
50) Toluene-d8	10.541	98	750946	56.528	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 113.060%#	
62) 4-Bromofluorobenzene	12.823	95	307388	67.437	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 134.880%#	

Target Compounds

						Qvalue
31) Cyclohexane	8.224	56	114926m	20.248	ug/l	
39) Methylcyclohexane	9.577	83	877529	148.888	ug/l	92
52) Toluene	10.606	92	128860	13.799	ug/l	97
67) Ethyl Benzene	11.935	91	421017	19.925	ug/l	98
73) Isopropylbenzene	12.670	105	253478	12.848	ug/l	99
78) n-propylbenzene	13.012	91	768892	31.857	ug/l	99
85) sec-Butylbenzene	13.588	105	100579	5.038	ug/l #	56
86) p-Isopropyltoluene	13.700	119	76041	4.645	ug/l	98
89) n-Butylbenzene	14.029	91	150166m	9.447	ug/l	
95) Naphthalene	15.611	128	63854m	3.751	ug/l	

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

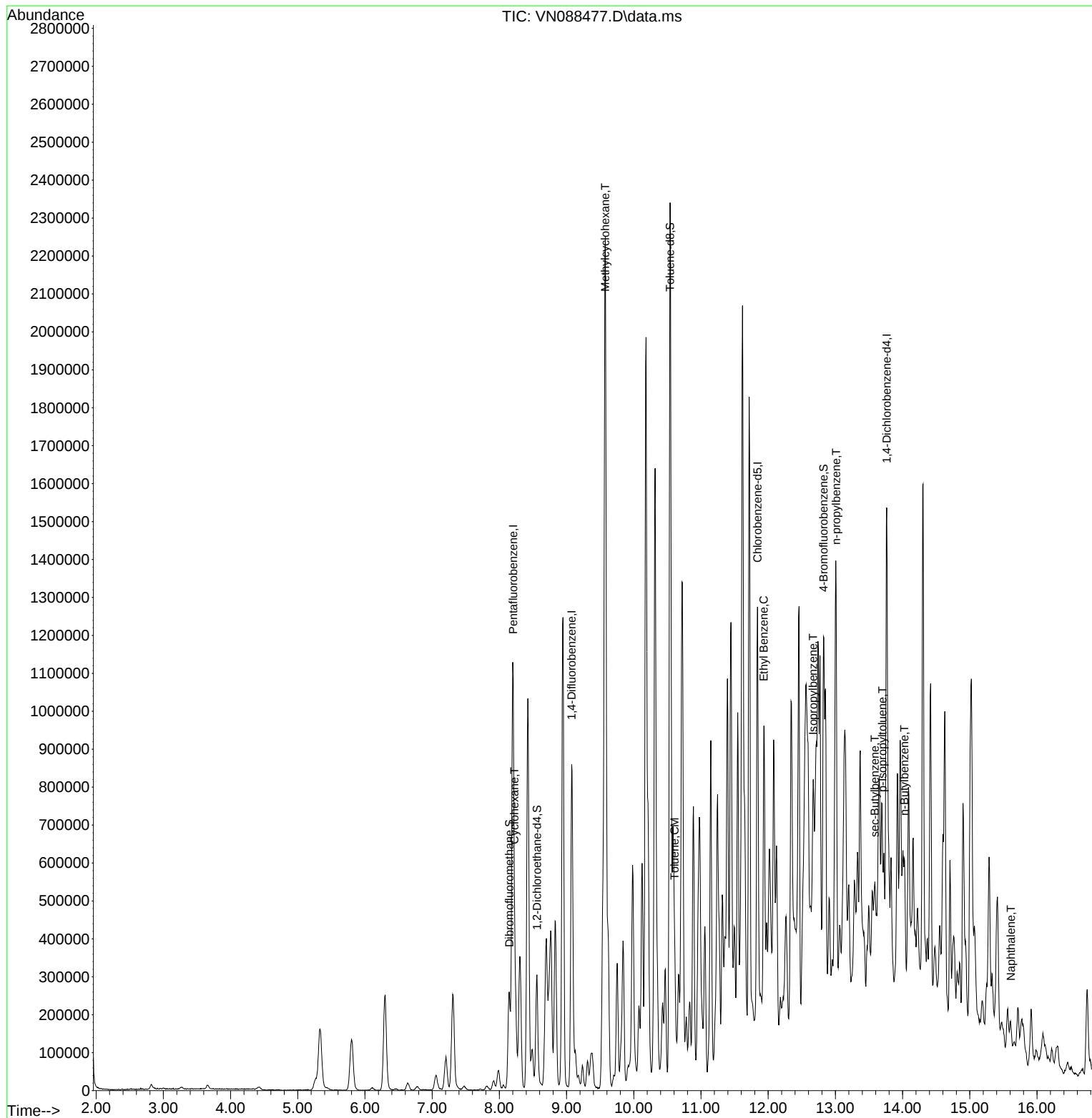
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120925\
Data File : VN088477.D
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Operator : JC\MD
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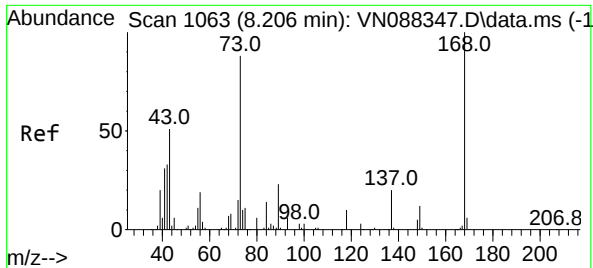
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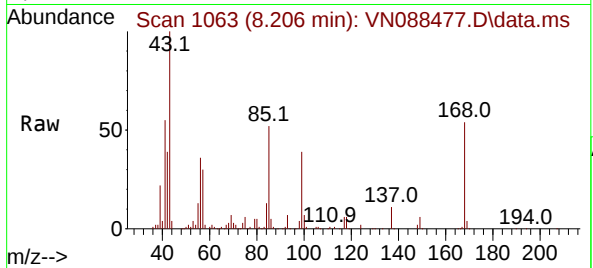
Quant Time: Dec 10 05:06:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

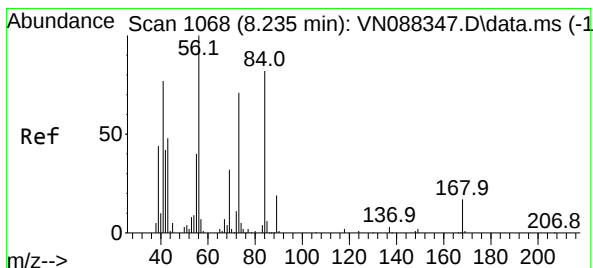
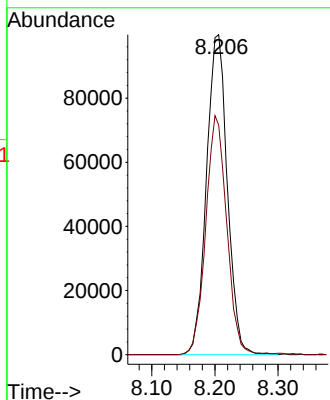
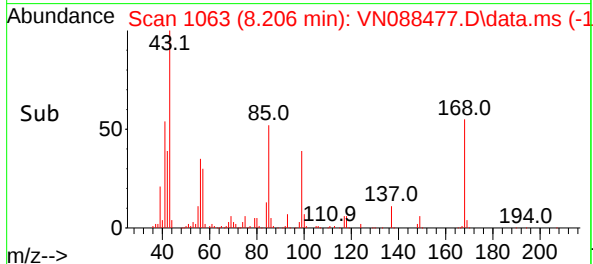
Instrument :
MSVOA_N
ClientSampleId :
SB3A



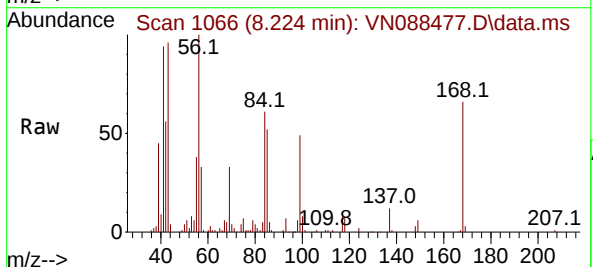
Tgt Ion:168 Resp: 229100
Ion Ratio Lower Upper
168 100
99 71.7 57.1 85.7

Manual Integrations
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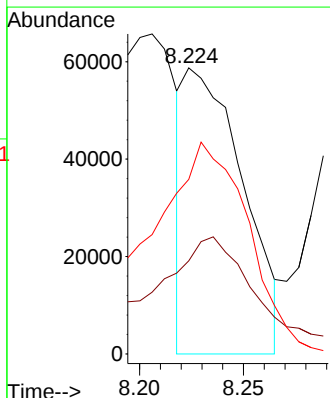
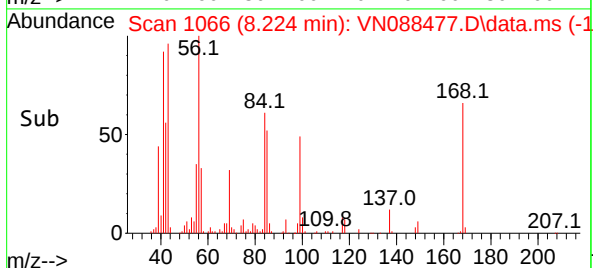
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/11/2025

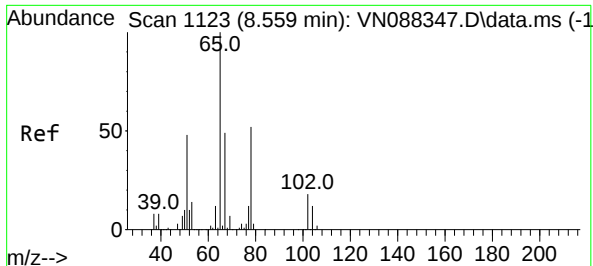


#31
Cyclohexane
Concen: 20.248 ug/l m
RT: 8.224 min Scan# 1066
Delta R.T. -0.012 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05



Tgt Ion: 56 Resp: 114926
Ion Ratio Lower Upper
56 100
69 32.6 25.3 37.9
84 61.0 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 59.595 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088477.D

Acq: 09 Dec 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

SB3A

Tgt Ion: 65 Resp: 25720

Ion Ratio Lower Upper

65 100

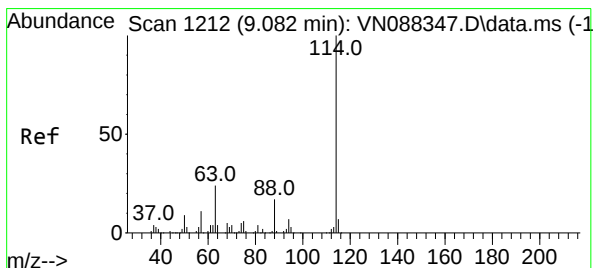
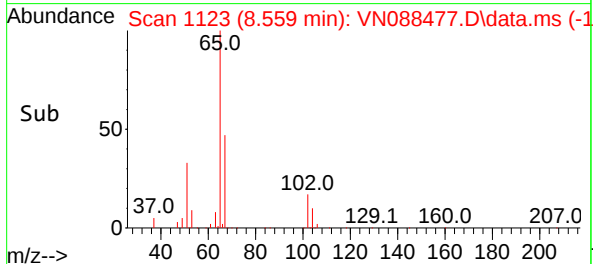
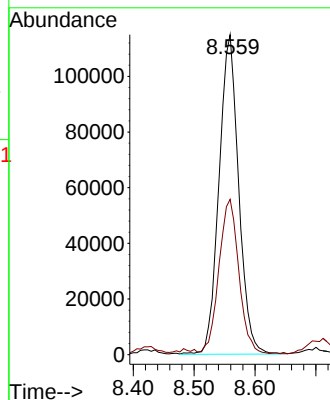
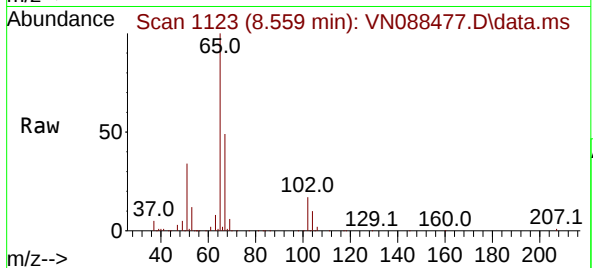
67 48.8 0.0 100.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088477.D

Acq: 09 Dec 2025 14:05

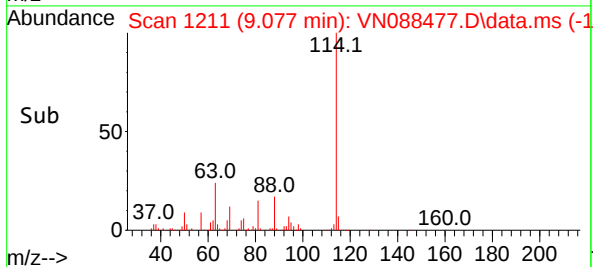
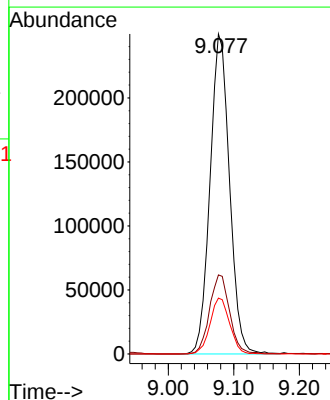
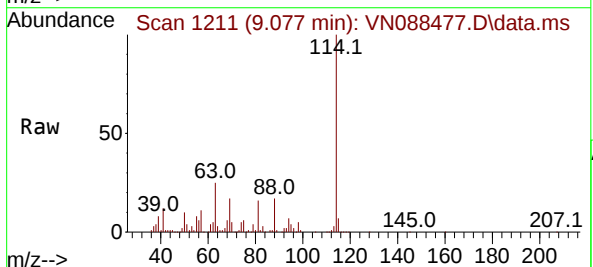
Tgt Ion:114 Resp: 515203

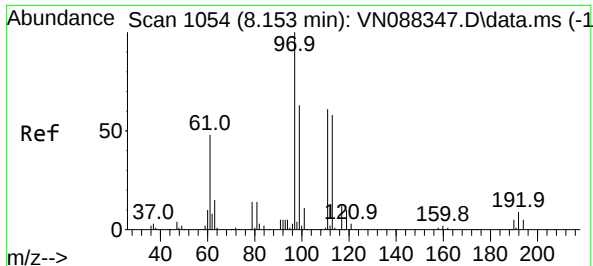
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.0

88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.478 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088477.D

Acq: 09 Dec 2025 14:05

Instrument :

MSVOA_N

ClientSampleId :

SB3A

Tgt Ion: 113 Resp: 18022

Ion Ratio Lower Upper

113 100

111 103.4 82.5 123.7

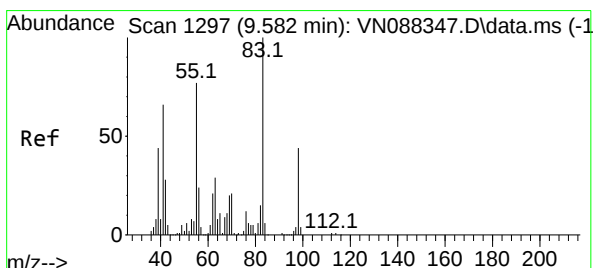
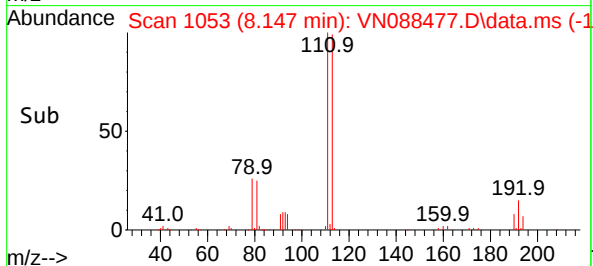
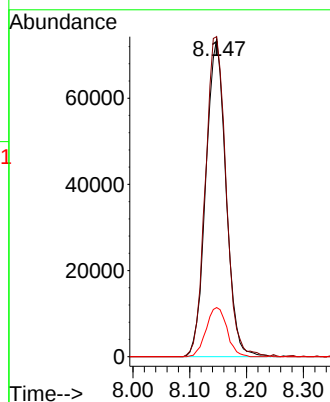
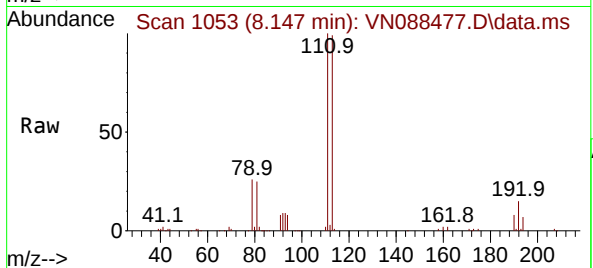
192 16.1 12.8 19.2

Manual Integrations

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#39

Methylcyclohexane

Concen: 148.888 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN088477.D

Acq: 09 Dec 2025 14:05

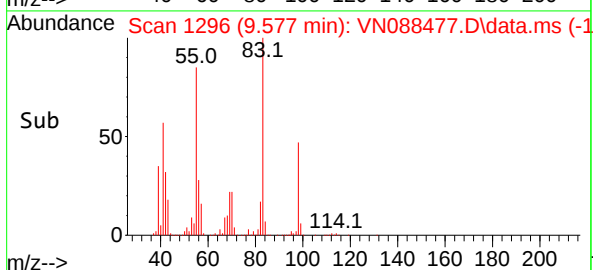
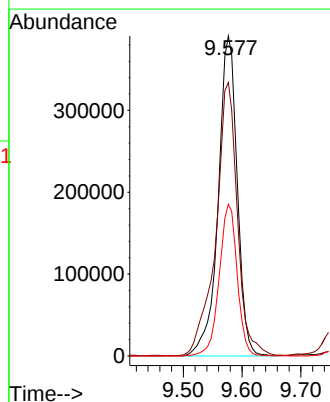
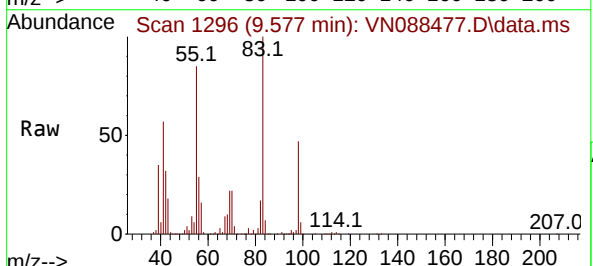
Tgt Ion: 83 Resp: 877529

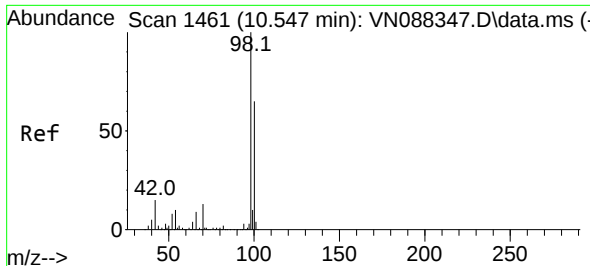
Ion Ratio Lower Upper

83 100

55 85.3 61.6 92.4

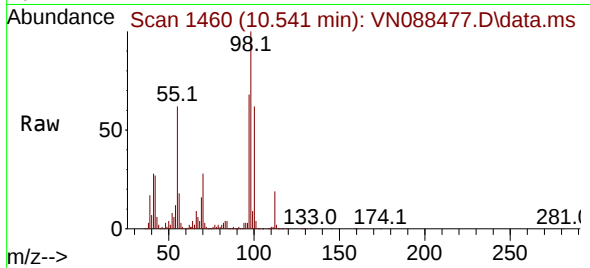
98 47.4 35.3 52.9





#50
Toluene-d8
Concen: 56.528 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

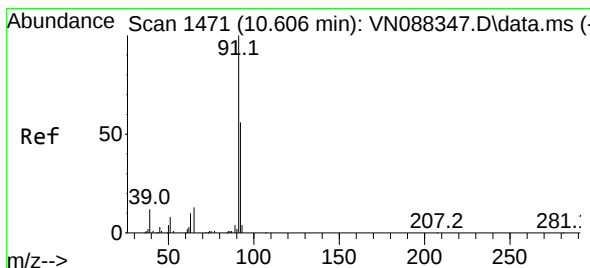
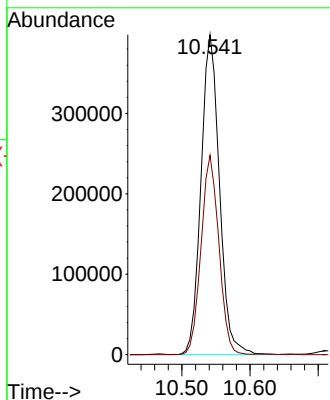
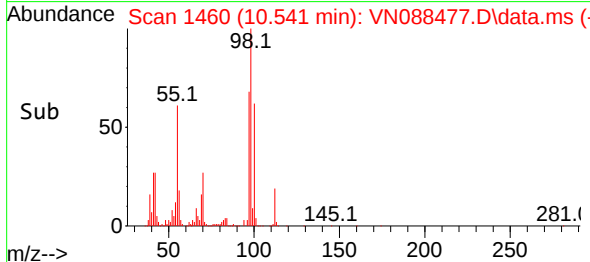
Instrument :
MSVOA_N
ClientSampleId :
SB3A



Tgt Ion: 98 Resp: 750940
Ion Ratio Lower Upper
98 100
100 59.9 52.2 78.2

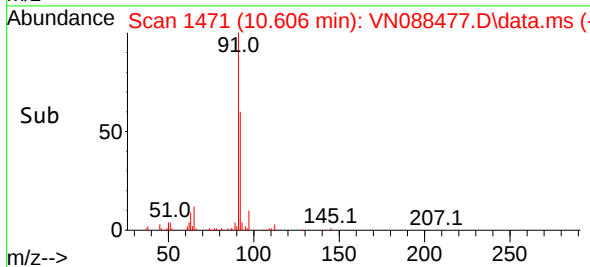
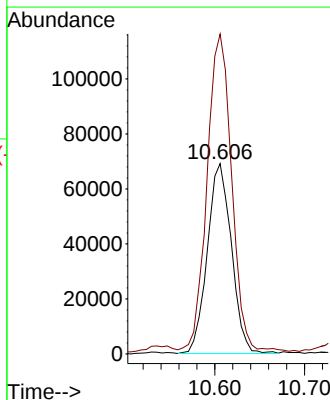
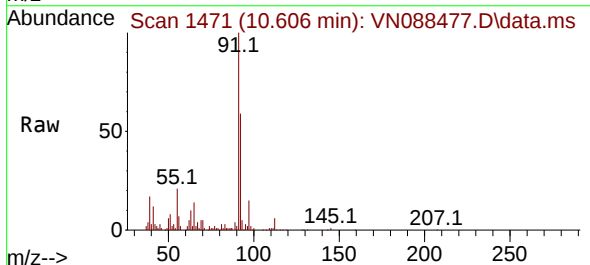
Manual Integrations
APPROVED

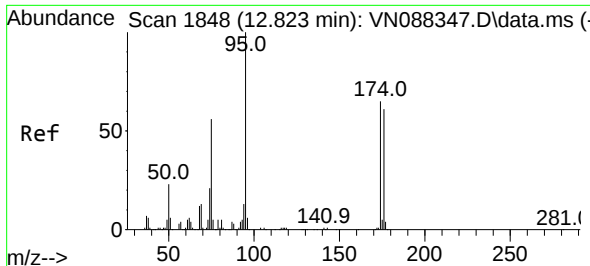
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/11/2025



#52
Toluene
Concen: 13.799 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

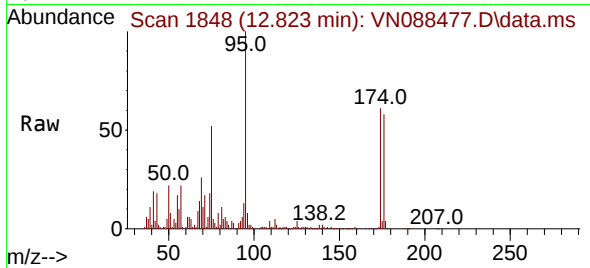
Tgt Ion: 92 Resp: 128860
Ion Ratio Lower Upper
92 100
91 171.1 140.2 210.2





#62
4-Bromofluorobenzene
Concen: 67.437 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

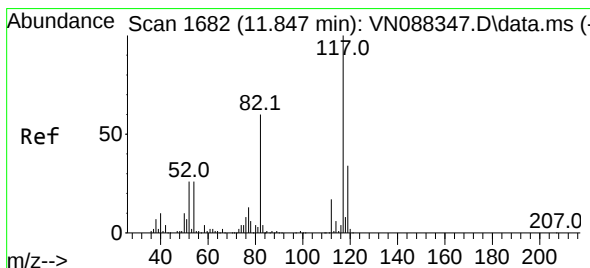
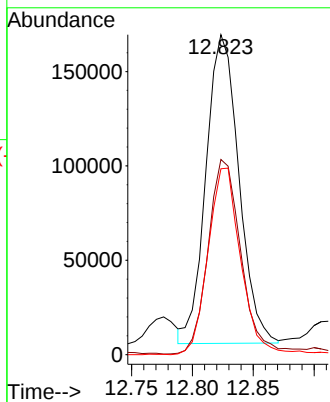
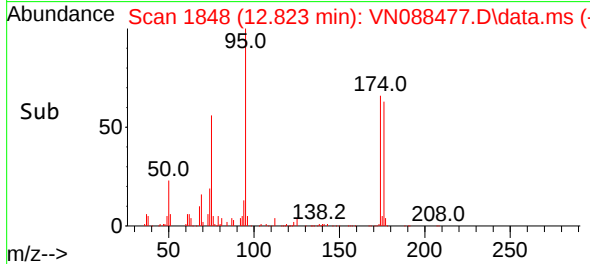
Instrument :
MSVOA_N
ClientSampleId :
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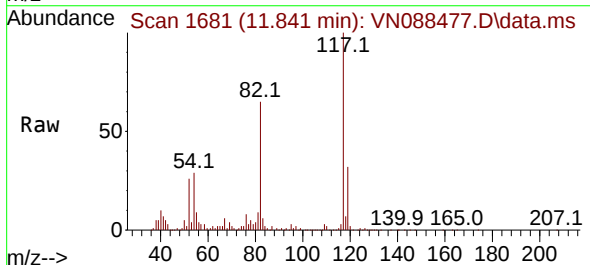
Tgt Ion: 95 Resp: 307388
Ion Ratio Lower Upper
95 100
174 63.4 0.0 139.0
176 60.4 0.0 132.4

Manual Integrations
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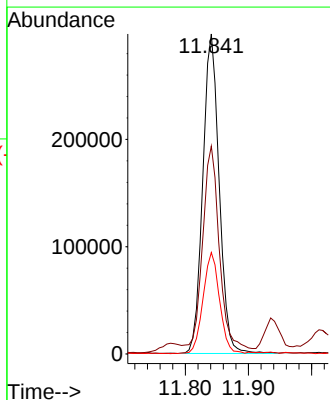
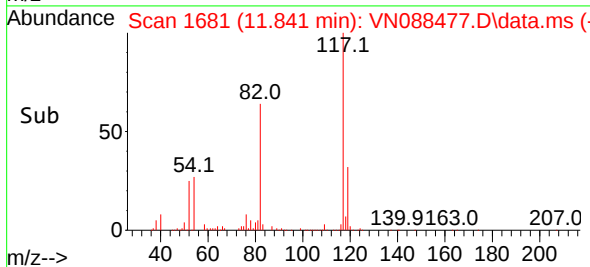
Reviewed By :John Carbone 12/10/2025
Supervised By :Mahesh Dadoda 12/11/2025

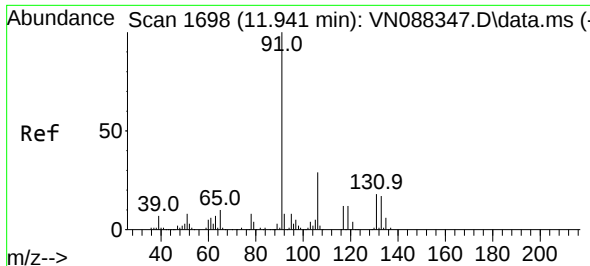


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05



Tgt Ion:117 Resp: 538236
Ion Ratio Lower Upper
117 100
82 62.1 47.8 71.8
119 31.6 26.9 40.3





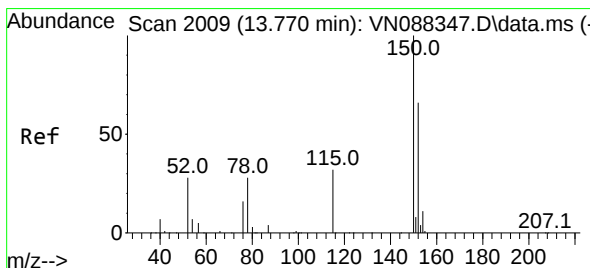
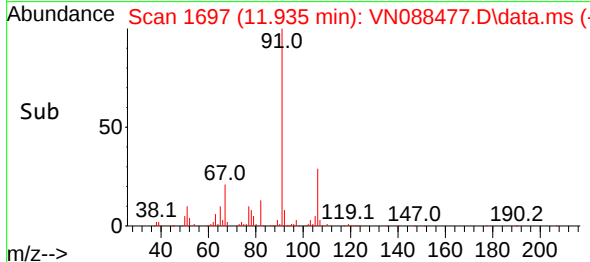
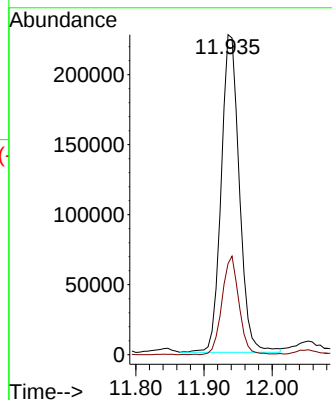
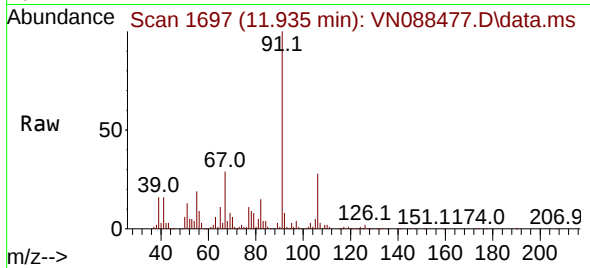
#67
Ethyl Benzene
Concen: 19.925 ug/l
RT: 11.935 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

Instrument :
MSVOA_N
ClientSampleId :
SB3A

Tgt Ion: 91 Resp: 42101
Ion Ratio Lower Upper
91 100
106 28.6 23.6 35.4

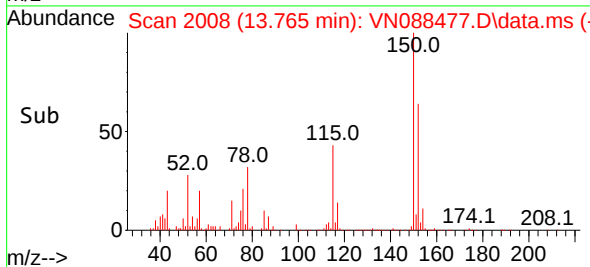
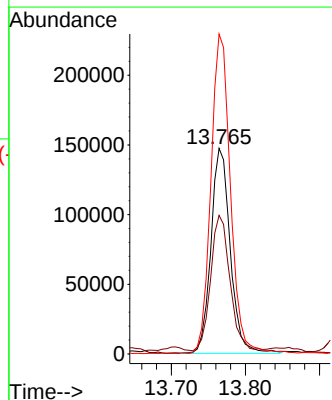
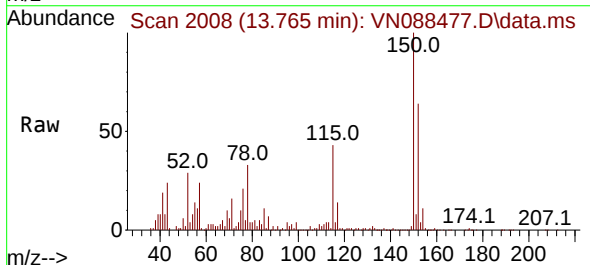
Manual Integrations
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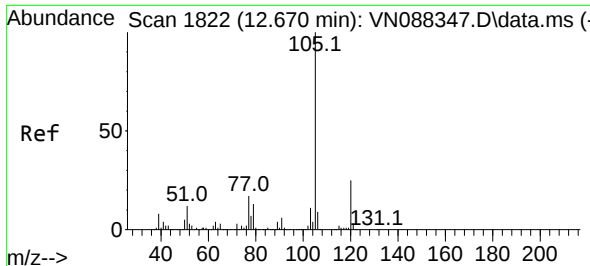
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.765 min Scan# 2008
Delta R.T. -0.006 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

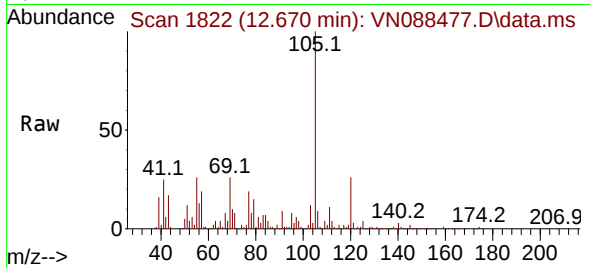
Tgt Ion:152 Resp: 266826
Ion Ratio Lower Upper
152 100
115 65.9 33.0 98.9
150 157.3 0.0 349.0





#73
Isopropylbenzene
Concen: 12.848 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

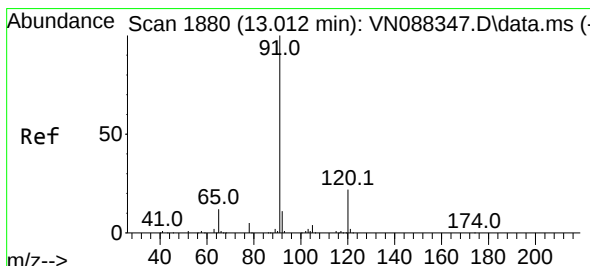
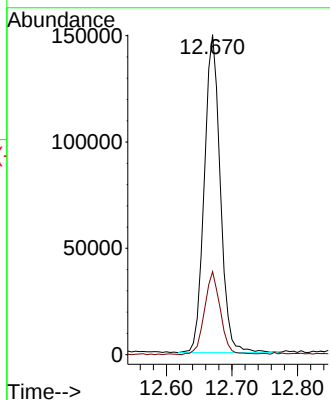
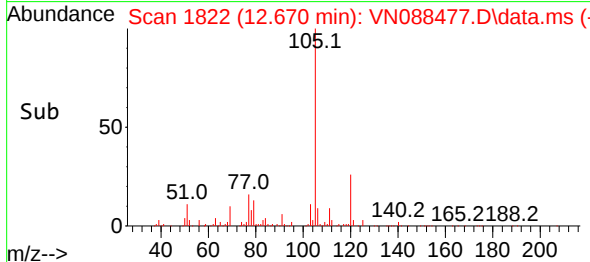
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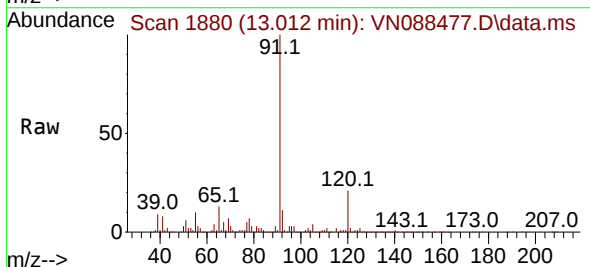
Tgt Ion:105 Resp: 253478
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.3

Manual Integrations
APPROVED

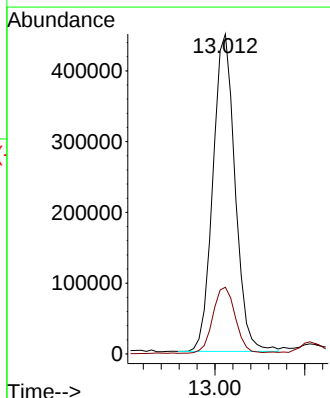
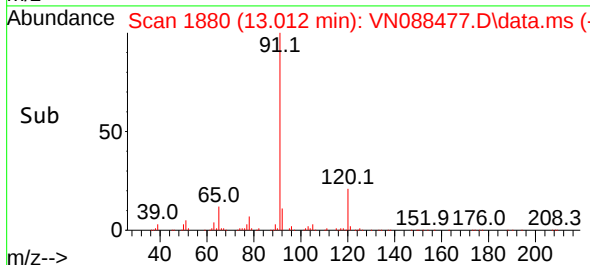
Reviewed By :John Carlone 12/10/2025
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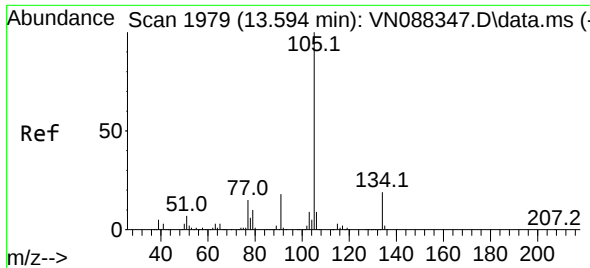


#78
n-propylbenzene
Concen: 31.857 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05



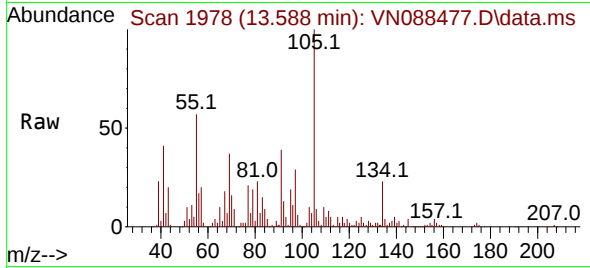
Tgt Ion: 91 Resp: 768892
Ion Ratio Lower Upper
91 100
120 21.2 10.9 32.6





#85
 sec-Butylbenzene
 Concen: 5.038 ug/l
 RT: 13.588 min Scan# 1978
 Delta R.T. -0.006 min
 Lab File: VN088477.D
 Acq: 09 Dec 2025 14:05

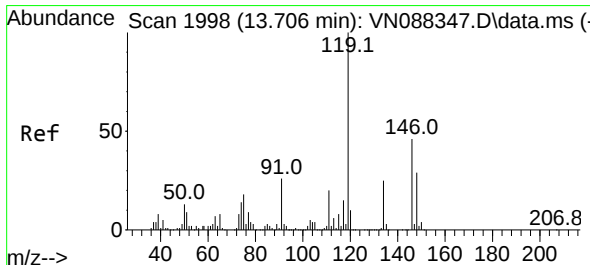
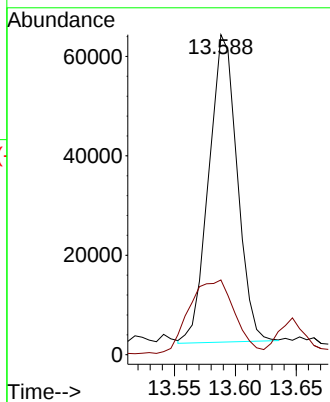
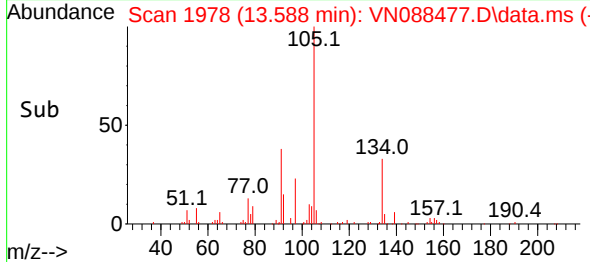
Instrument :
 MSVOA_N
 ClientSampleId :
 SB3A



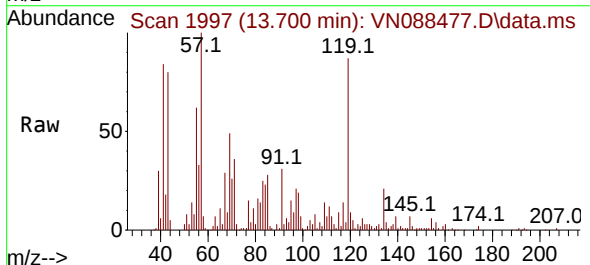
Tgt Ion:105 Resp: 100579
 Ion Ratio Lower Upper
 105 100
 134 38.8 9.5 28.5

Manual Integrations
 APPROVED

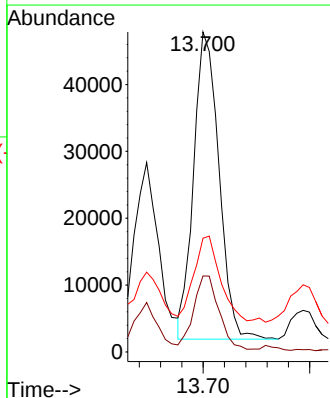
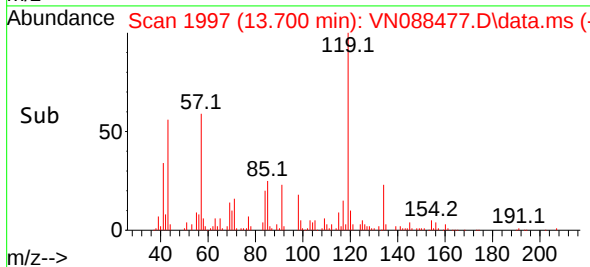
Reviewed By :John Carlone 12/10/2025
 Supervised By :Mahesh Dadoda 12/11/2025

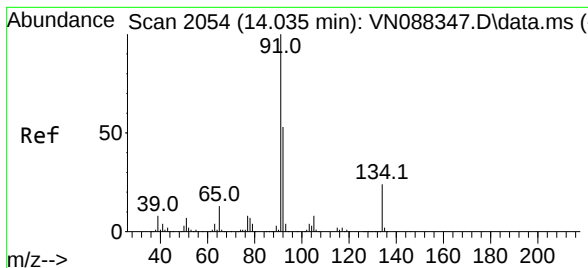


#86
 p-Isopropyltoluene
 Concen: 4.645 ug/l
 RT: 13.700 min Scan# 1997
 Delta R.T. -0.006 min
 Lab File: VN088477.D
 Acq: 09 Dec 2025 14:05



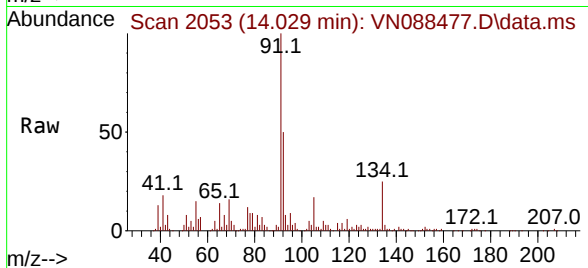
Tgt Ion:119 Resp: 76041
 Ion Ratio Lower Upper
 119 100
 134 23.7 12.2 36.6
 91 27.5 13.0 39.0





#89
n-Butylbenzene
Concen: 9.447 ug/l m
RT: 14.029 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

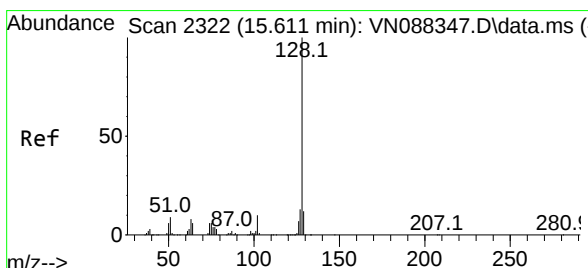
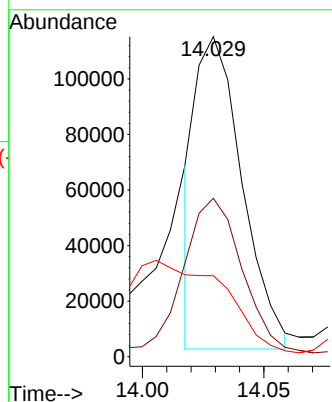
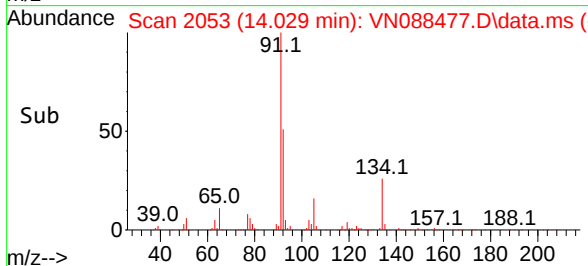
Instrument :
MSVOA_N
ClientSampleId :
SB3A



Tgt Ion: 91 Resp: 150160
Ion Ratio Lower Upper
91 100
92 62.9 26.1 78.3
134 0.0 11.7 35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/11/2025



#95
Naphthalene
Concen: 3.751 ug/l m
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN088477.D
Acq: 09 Dec 2025 14:05

Tgt Ion:128 Resp: 63854
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 9.0 13.6#

