

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039154.D
 Acq On : 24 Sep 2025 15:53
 Operator : SY/MD
 Sample : Q3175-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW4

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
 Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 25 04:48:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.603	168	627637	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	1091934	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1002921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	492612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	423649	46.638	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	93.280%		
35) Dibromofluoromethane	4.503	113	340181	38.753	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	77.500%#		
50) Toluene-d8	7.236	98	1230675	47.734	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	95.460%		
62) 4-Bromofluorobenzene	10.001	95	513340	48.366	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	96.740%		
Target Compounds					Qvalue	
17) Carbon Disulfide	2.262	76	16408	0.567	ug/l #	91
31) Cyclohexane	4.583	56	2558050	157.888	ug/l	98
39) Methylcyclohexane	6.046	83	3663235	228.559	ug/l	99
40) Benzene	4.992	78	32865540m	760.461	ug/l	
52) Toluene	7.307	92	1785393	71.251	ug/l	98
67) Ethyl Benzene	8.924	91	20451028m	483.626	ug/l	
68) m/p-Xylenes	9.056	106	21385207m	1310.281	ug/l	
69) o-Xylene	9.468	106	3284665	227.292	ug/l	99
73) Isopropylbenzene	9.857	105	3830198	107.200	ug/l	100
78) n-propylbenzene	10.278	91	10733473	246.691	ug/l	98
80) 1,3,5-Trimethylbenzene	10.464	105	11542912	388.679	ug/l	99
84) 1,2,4-Trimethylbenzene	10.831	105	19453064m	674.708	ug/l	
85) sec-Butylbenzene	11.014	105	722406	18.392	ug/l	98
86) p-Isopropyltoluene	11.168	119	463357	14.174	ug/l	97
89) n-Butylbenzene	11.574	91	1495426m	47.897	ug/l	
95) Naphthalene	13.422	128	9872434	303.997	ug/l	99

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

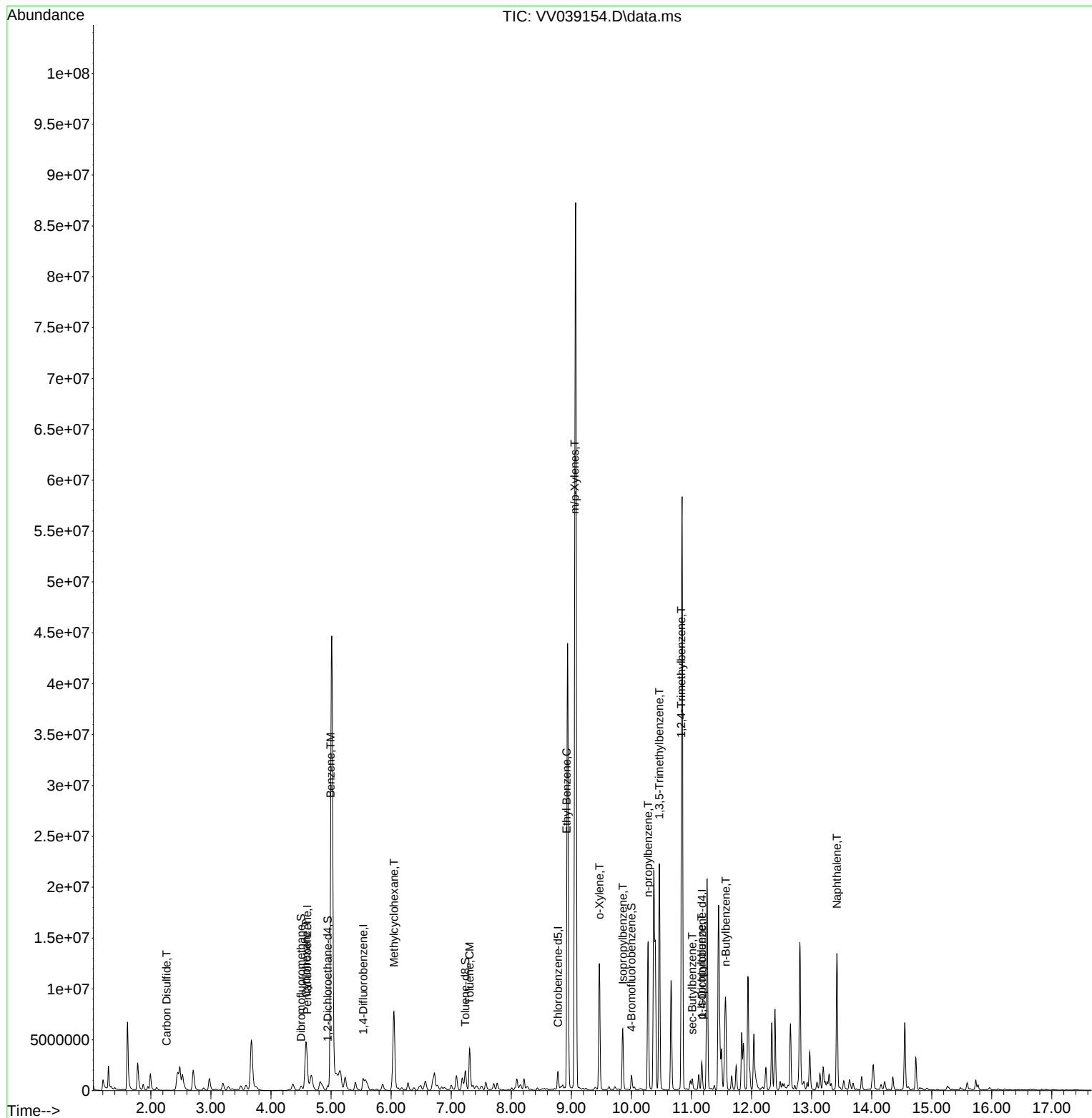
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
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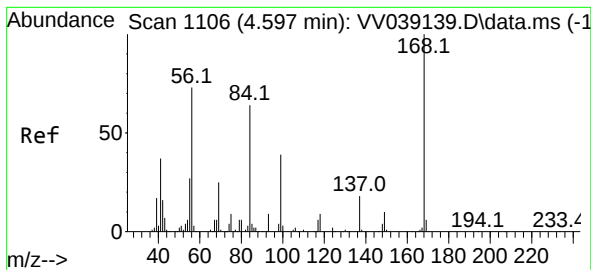
Instrument :
MSVOA_V
ClientSampleId :
MW4

Quant Time: Sep 25 04:48:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
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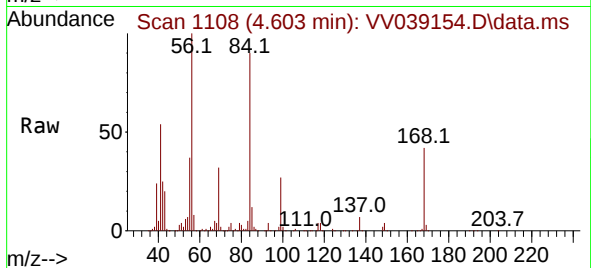
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

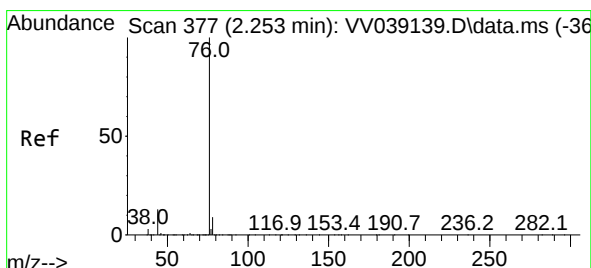
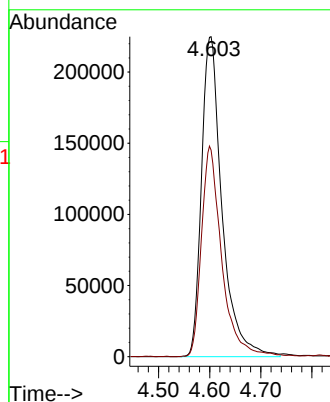
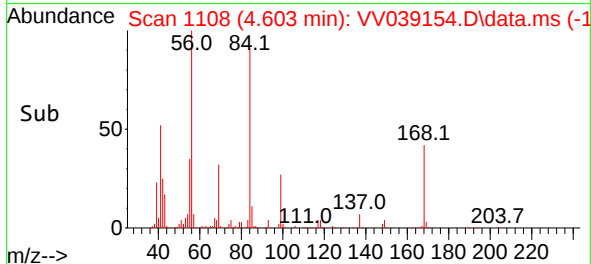
Instrument :
MSVOA_V
ClientSampleId :
MW4



Tgt Ion: 168 Resp: 62763
Ion Ratio Lower Upper
168 100
99 64.5 49.6 74.4

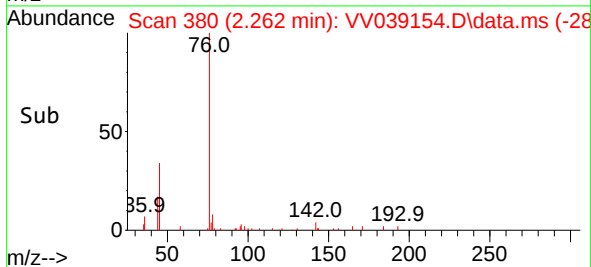
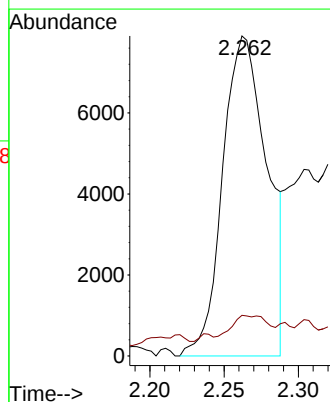
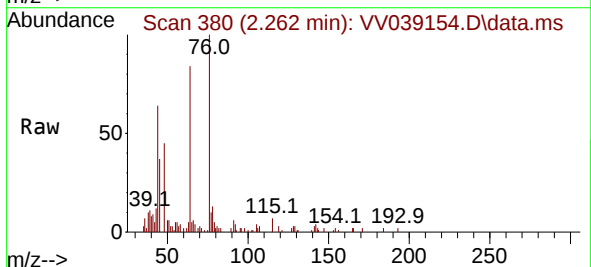
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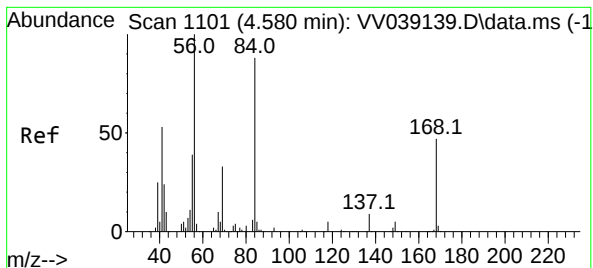
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#17
Carbon Disulfide
Concen: 0.567 ug/l
RT: 2.262 min Scan# 380
Delta R.T. 0.009 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

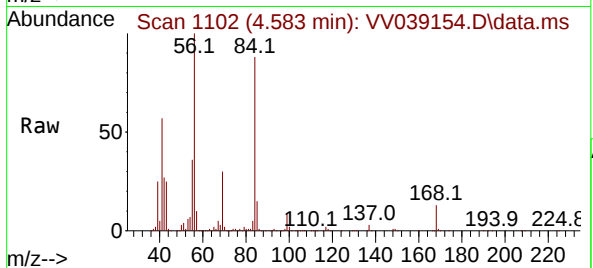
Tgt Ion: 76 Resp: 16408
Ion Ratio Lower Upper
76 100
78 6.0 7.4 11.0#





#31
Cyclohexane
Concen: 157.888 ug/l
RT: 4.583 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

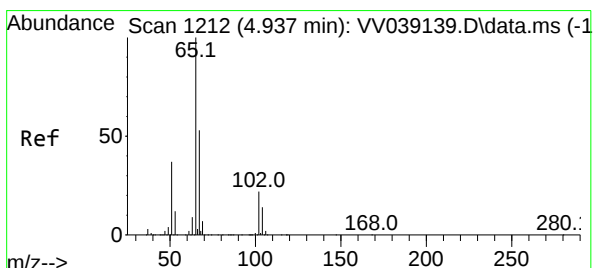
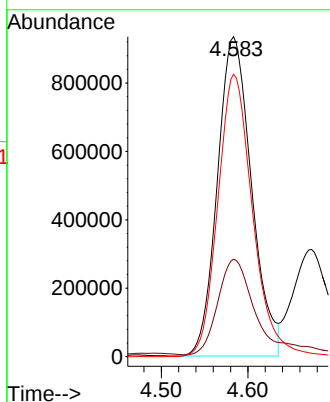
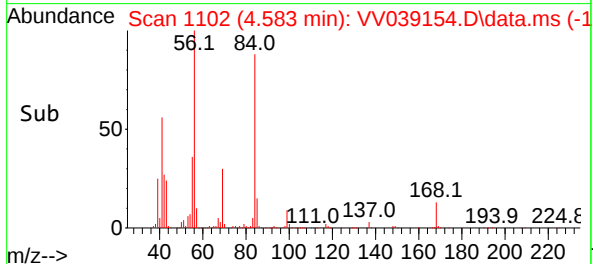
Instrument :
MSVOA_V
ClientSampleId :
MW4



Tgt Ion: 56 Resp: 255805
Ion Ratio Lower Upper
56 100
69 29.8 26.2 39.2
84 88.4 70.3 105.5

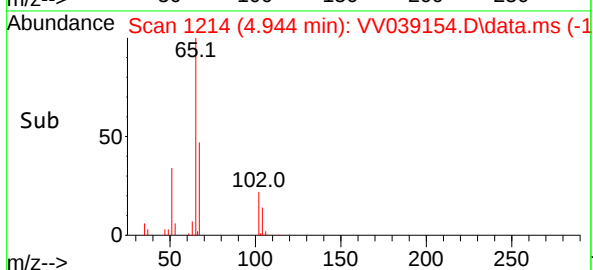
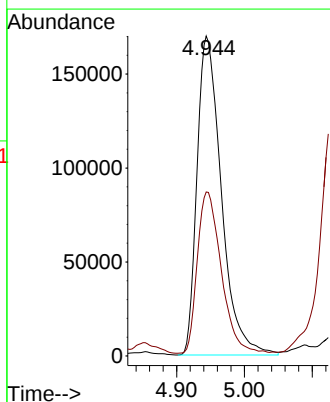
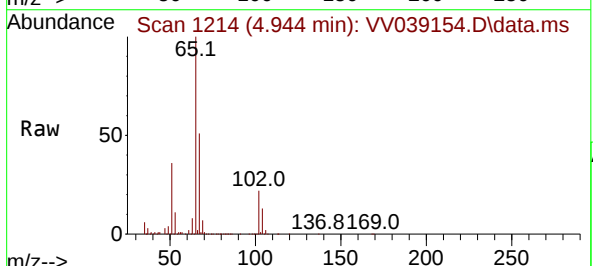
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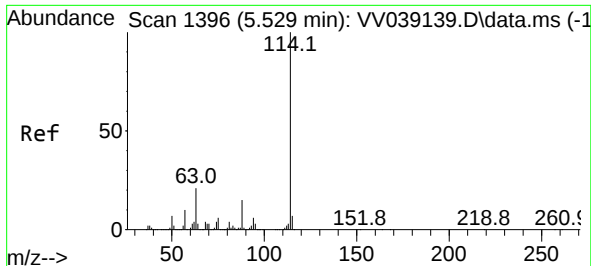
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#33
1,2-Dichloroethane-d4
Concen: 46.638 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

Tgt Ion: 65 Resp: 423649
Ion Ratio Lower Upper
65 100
67 49.5 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

Instrument :

MSVOA_V

ClientSampleId :

MW4

Tgt Ion:114 Resp: 1091934

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

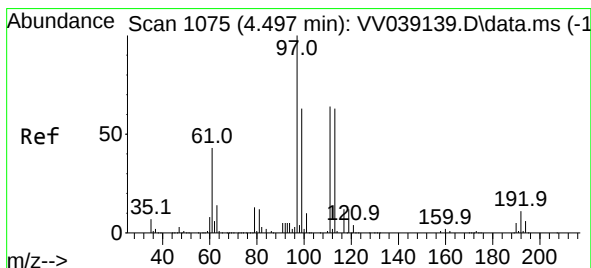
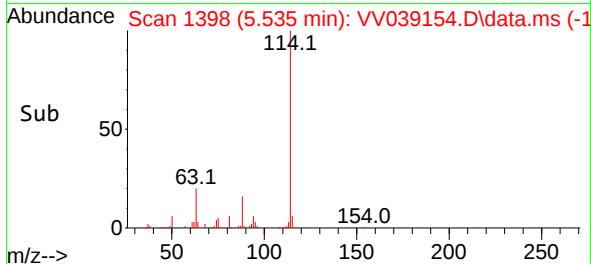
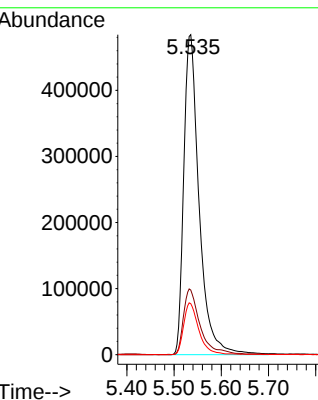
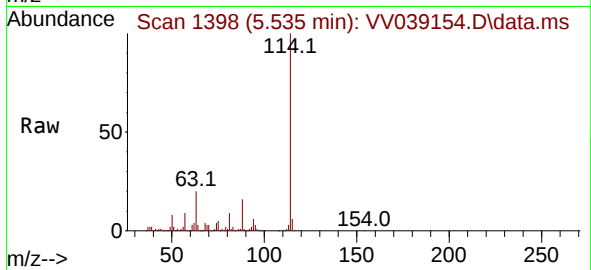
88 16.0 0.0 30.8

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#35

Dibromofluoromethane

Concen: 38.753 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

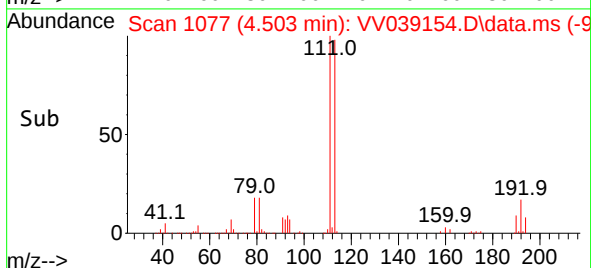
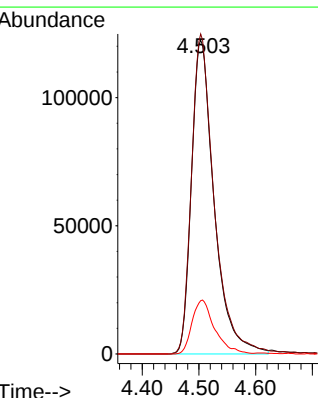
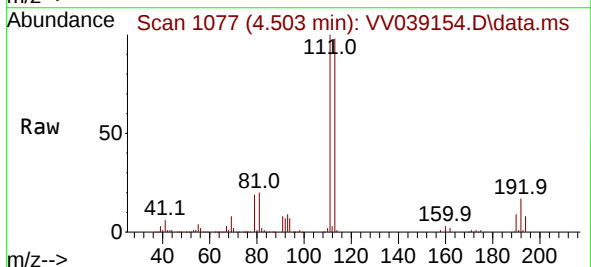
Tgt Ion:113 Resp: 340181

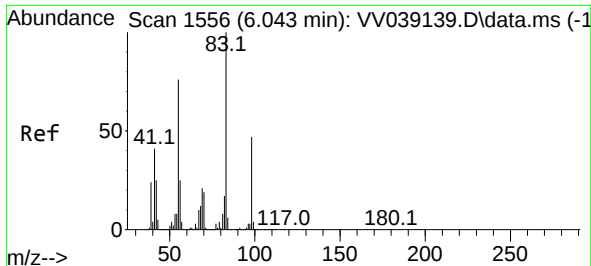
Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

192 17.1 13.8 20.8





#39

Methylcyclohexane

Concen: 228.559 ug/l

RT: 6.046 min Scan# 1556

Delta R.T. 0.003 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

Instrument :

MSVOA_V

ClientSampleId :

MW4

Tgt Ion: 83 Resp: 366323

Ion Ratio Lower Upper

83 100

55 75.6 60.5 90.7

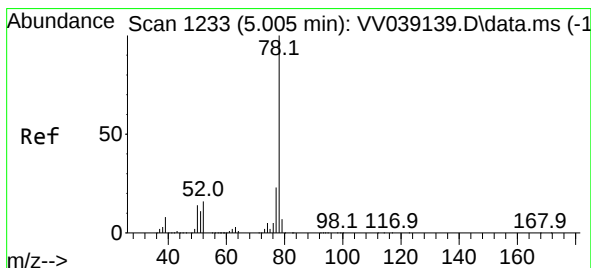
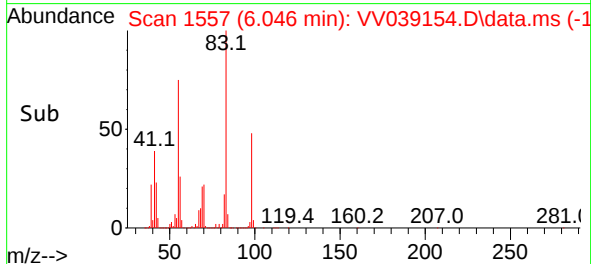
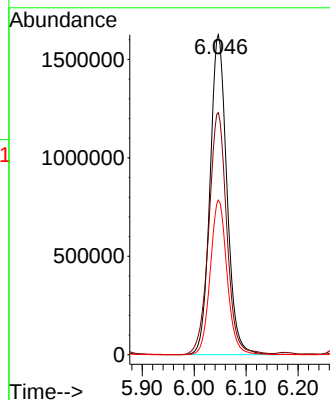
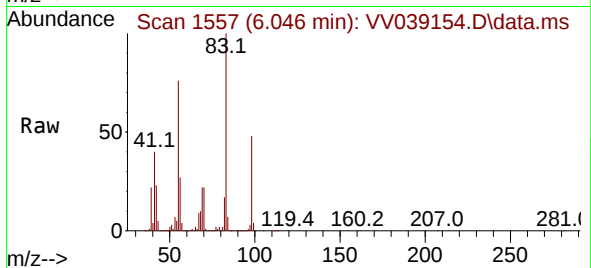
98 48.3 37.8 56.6

Manual Integrations

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#40

Benzene

Concen: 760.461 ug/l m

RT: 4.992 min Scan# 1229

Delta R.T. -0.013 min

Lab File: VV039154.D

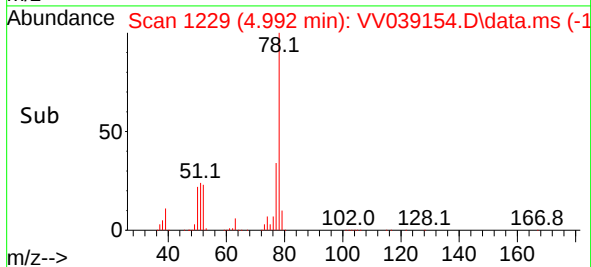
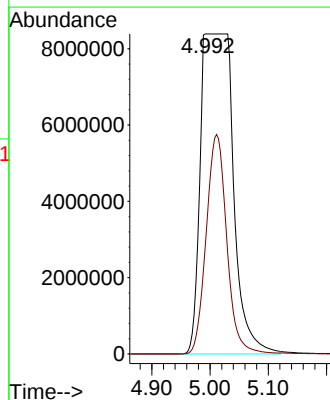
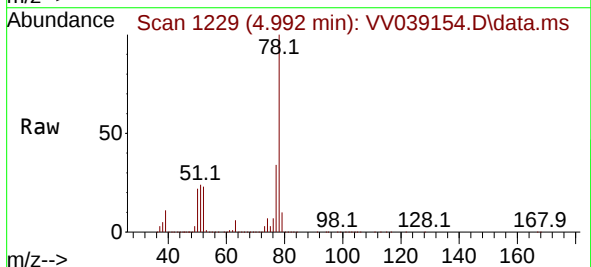
Acq: 24 Sep 2025 15:53

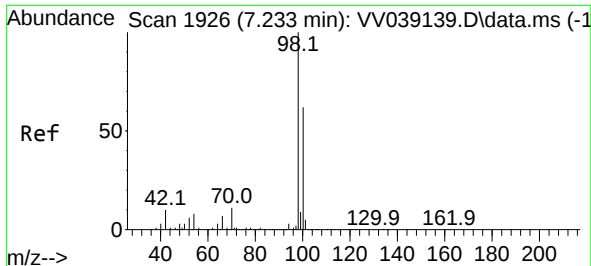
Tgt Ion: 78 Resp:32865540

Ion Ratio Lower Upper

78 100

77 33.9 18.7 28.1#





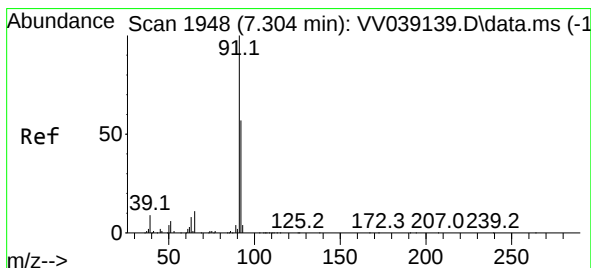
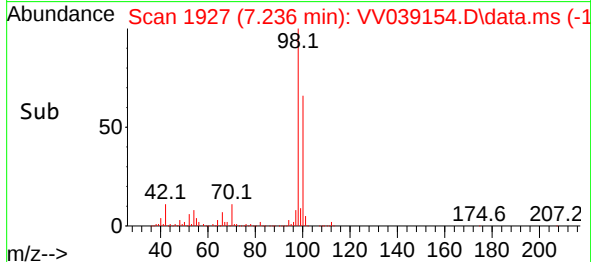
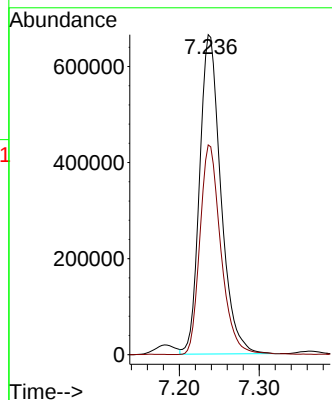
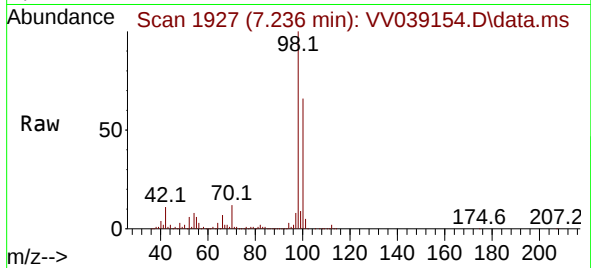
#50
Toluene-d8
Concen: 47.734 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

Instrument :
MSVOA_V
ClientSampleId :
MW4

Tgt Ion: 98 Resp: 123067
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2

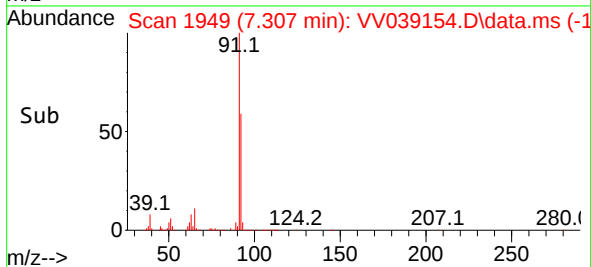
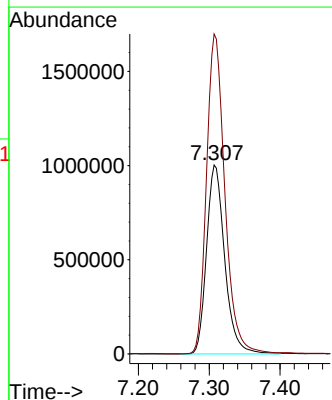
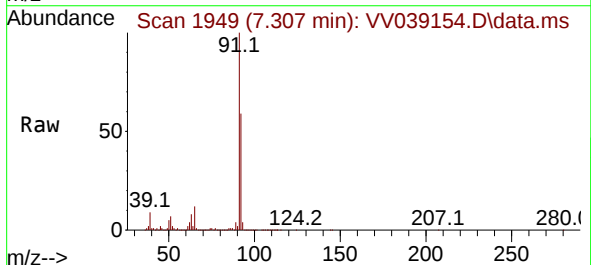
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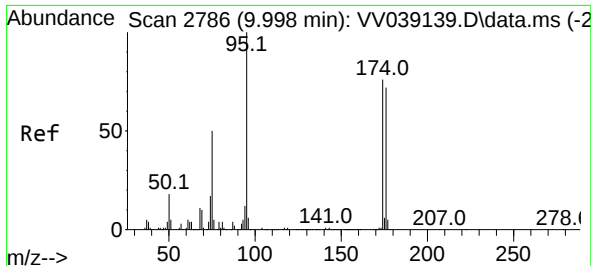
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#52
Toluene
Concen: 71.251 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

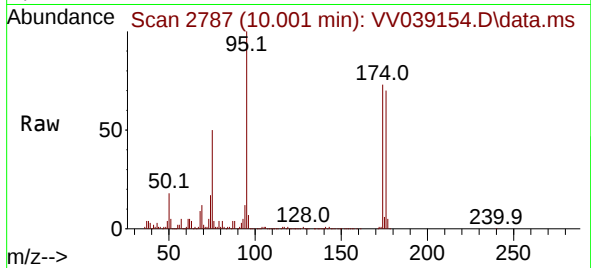
Tgt Ion: 92 Resp: 1785393
Ion Ratio Lower Upper
92 100
91 171.3 139.2 208.8





#62
4-Bromofluorobenzene
Concen: 48.366 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

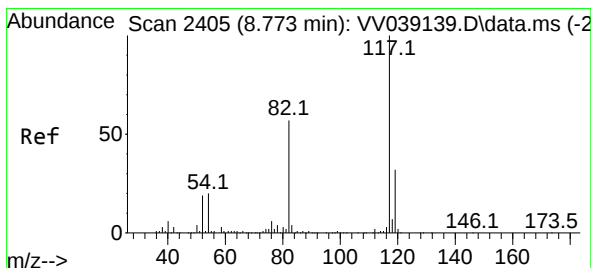
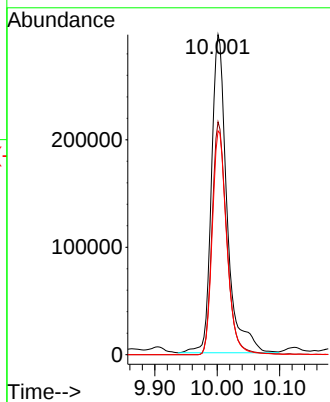
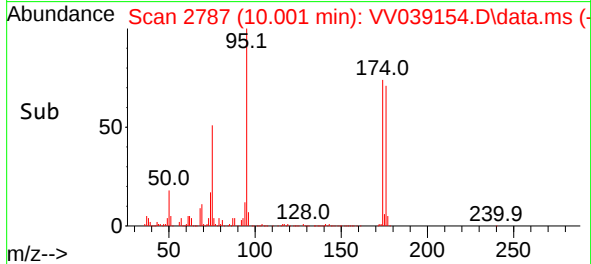
Instrument :
MSVOA_V
ClientSampleId :
MW4



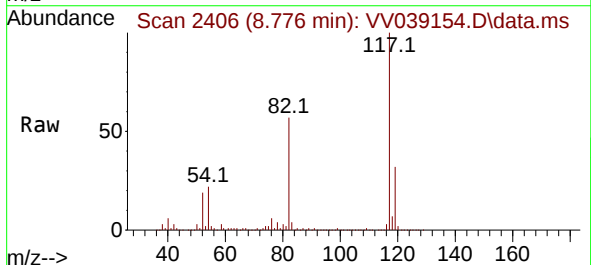
Tgt Ion: 95 Resp: 513340
Ion Ratio Lower Upper
95 100
174 68.6 0.0 150.4
176 65.8 0.0 144.2

Manual Integrations
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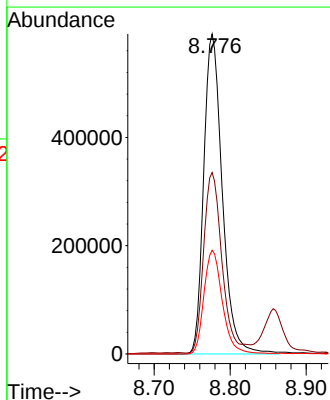
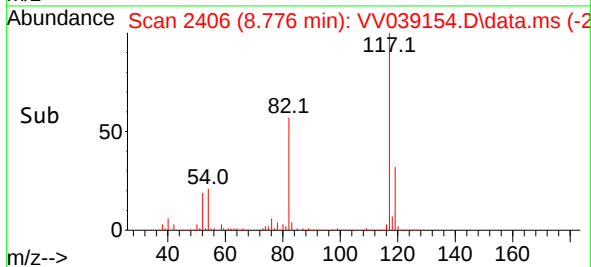
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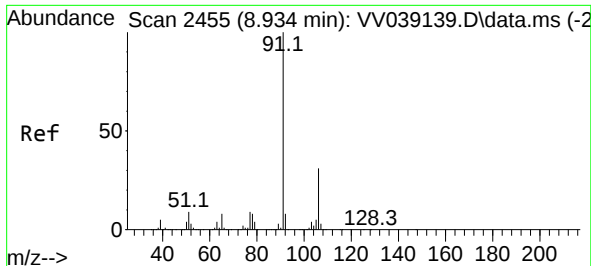


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53



Tgt Ion:117 Resp: 1002921
Ion Ratio Lower Upper
117 100
82 56.2 45.4 68.2
119 32.4 25.6 38.4





#67

Ethyl Benzene

Concen: 483.626 ug/l m

RT: 8.924 min Scan# 2451

Delta R.T. -0.010 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

Instrument :

MSVOA_V

ClientSampleId :

MW4

Tgt Ion: 91 Resp:20451028

Ion Ratio Lower Upper

91 100

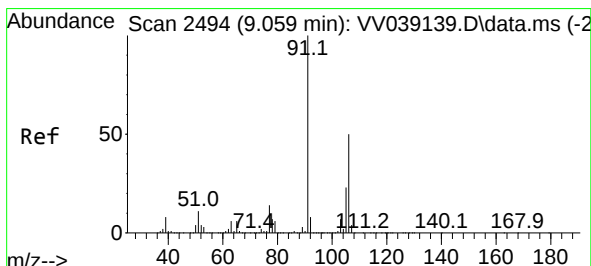
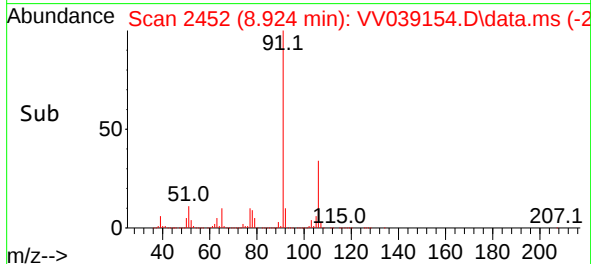
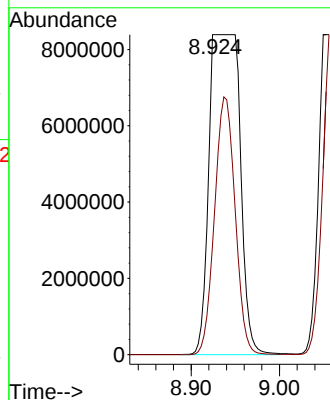
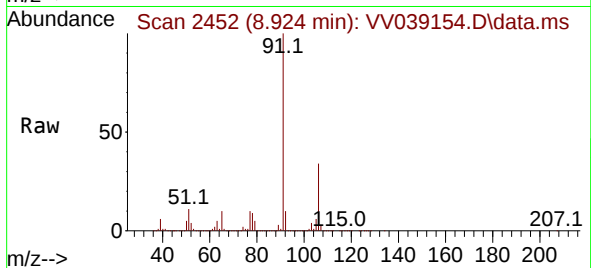
106 34.2 24.6 37.0

Manual Integrations

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#68

m/p-Xylenes

Concen: 1310.281 ug/l m

RT: 9.056 min Scan# 2493

Delta R.T. -0.003 min

Lab File: VV039154.D

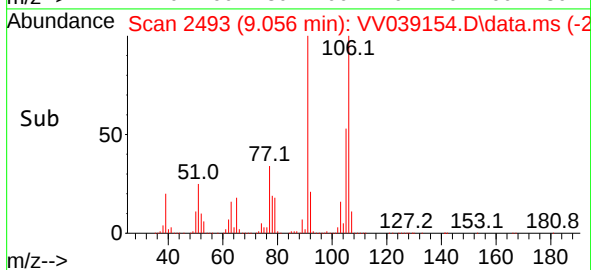
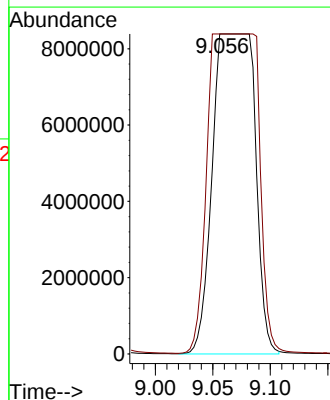
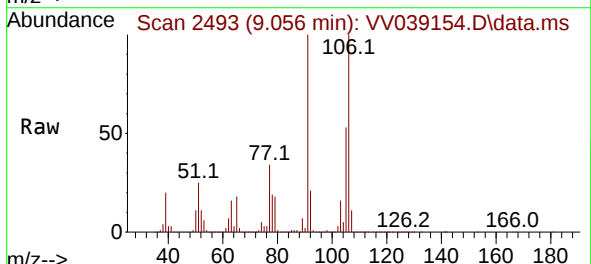
Acq: 24 Sep 2025 15:53

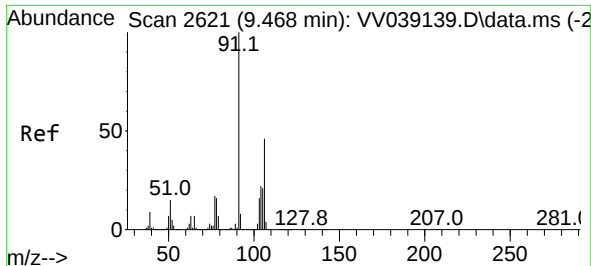
Tgt Ion:106 Resp:21385207

Ion Ratio Lower Upper

106 100

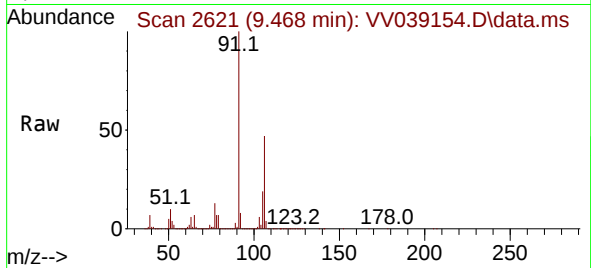
91 0.0 162.5 243.7#





#69
o-Xylene
Concen: 227.292 ug/l
RT: 9.468 min Scan# 2621
Delta R.T. -0.000 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

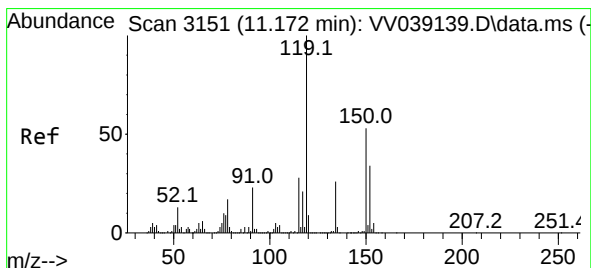
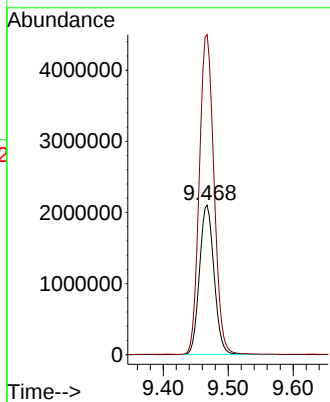
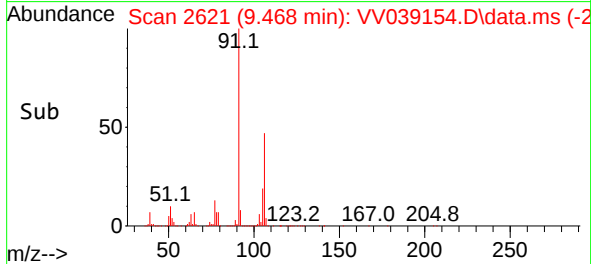
Instrument :
MSVOA_V
ClientSampleId :
MW4



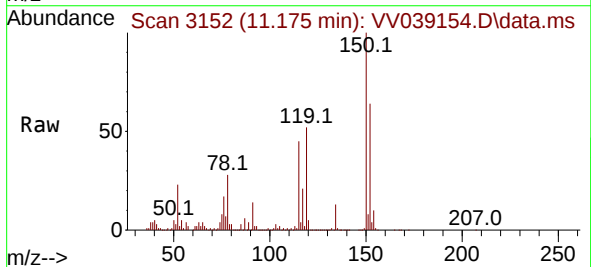
Tgt Ion:106 Resp: 328466
Ion Ratio Lower Upper
106 100
91 216.1 109.1 327.3

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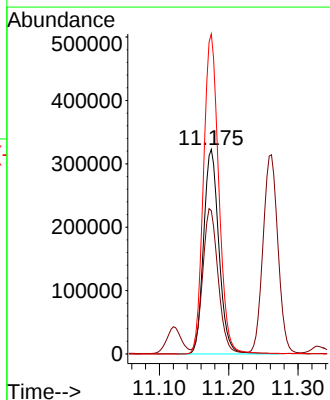
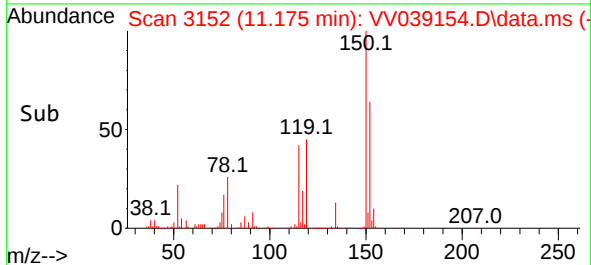
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

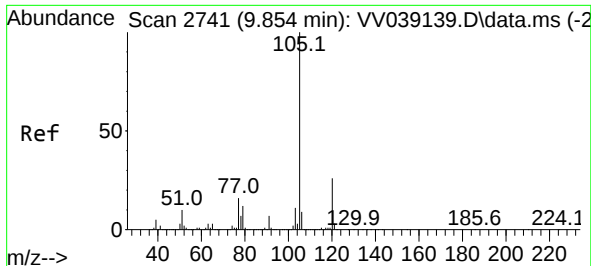


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53



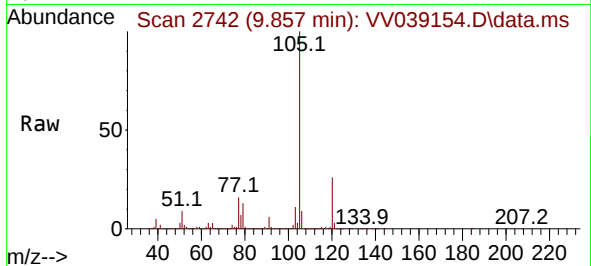
Tgt Ion:152 Resp: 492612
Ion Ratio Lower Upper
152 100
115 70.6 44.8 134.4
150 156.9 0.0 353.8





#73
Isopropylbenzene
Concen: 107.200 ug/l
RT: 9.857 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

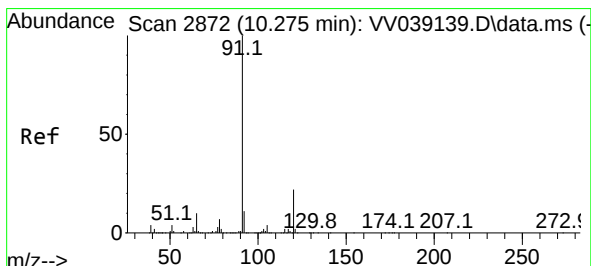
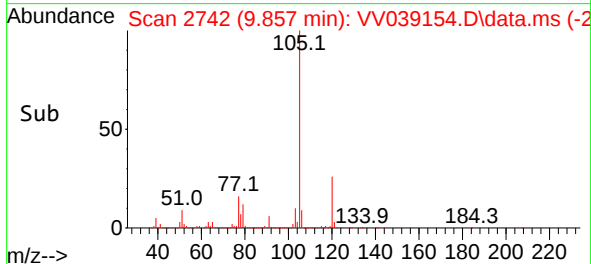
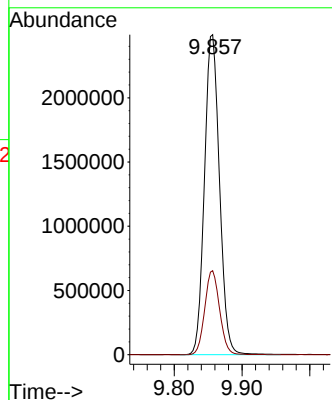
Instrument :
MSVOA_V
ClientSampleId :
MW4



Tgt Ion:105 Resp: 3830198
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.1

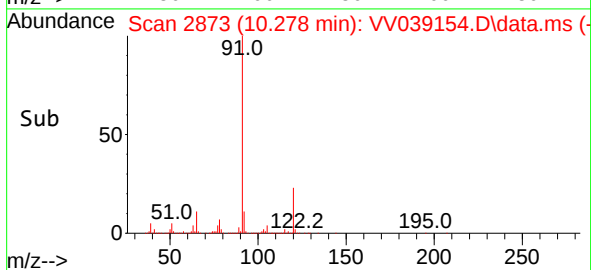
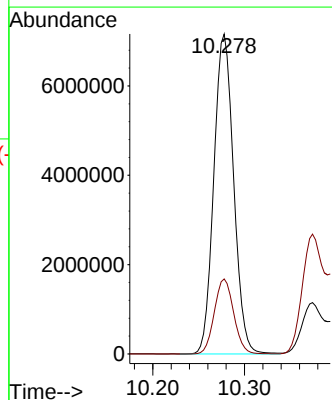
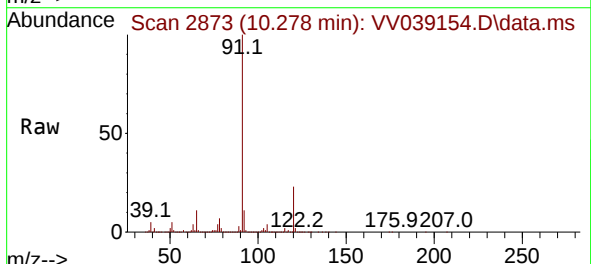
Manual Integrations
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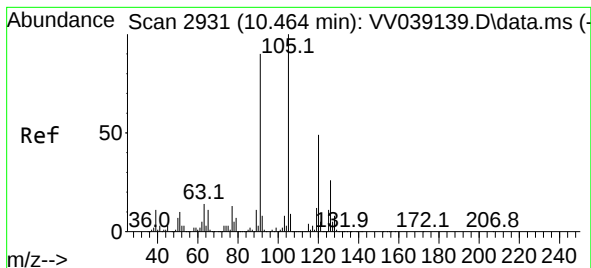
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#78
n-propylbenzene
Concen: 246.691 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

Tgt Ion: 91 Resp:10733473
Ion Ratio Lower Upper
91 100
120 22.9 11.1 33.3





#80

1,3,5-Trimethylbenzene

Concen: 388.679 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. -0.000 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

Instrument :

MSVOA_V

ClientSampleId :

MW4

Tgt Ion:105 Resp:1154291

Ion Ratio Lower Upper

105 100

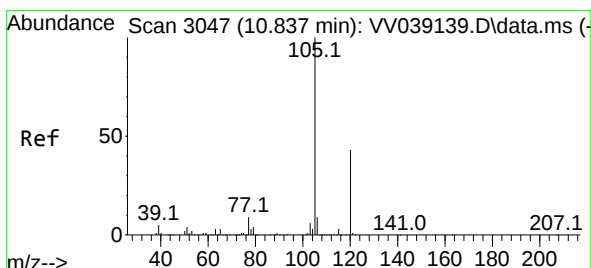
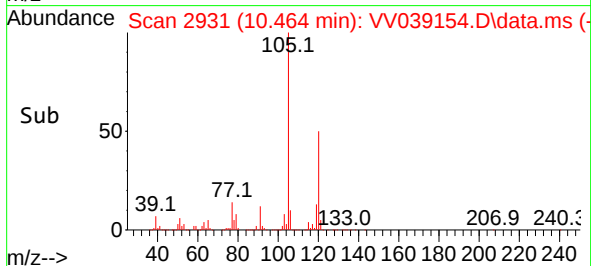
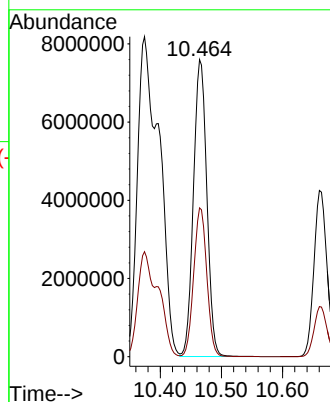
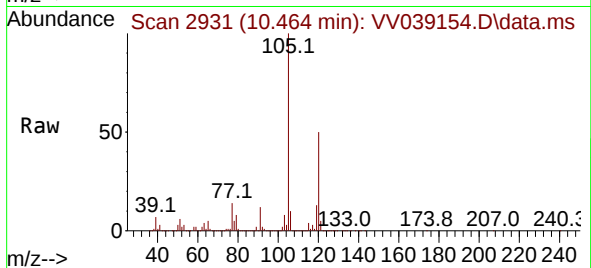
120 49.2 24.3 72.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#84

1,2,4-Trimethylbenzene

Concen: 674.708 ug/l m

RT: 10.831 min Scan# 3045

Delta R.T. -0.007 min

Lab File: VV039154.D

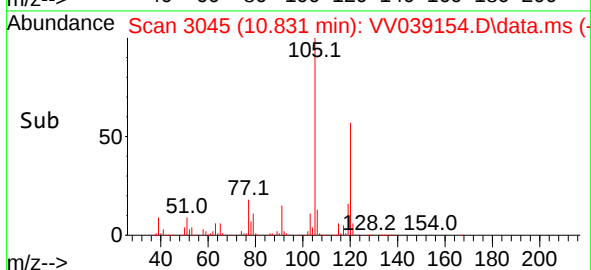
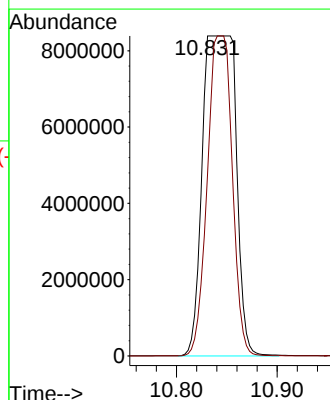
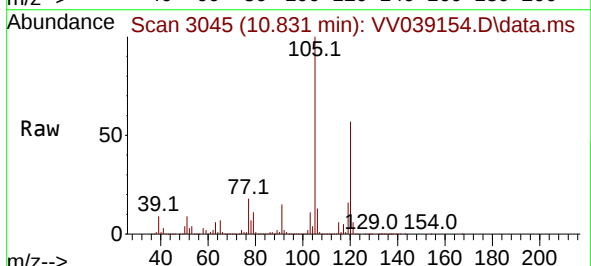
Acq: 24 Sep 2025 15:53

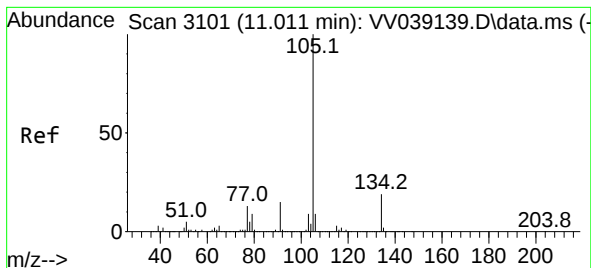
Tgt Ion:105 Resp:19453064

Ion Ratio Lower Upper

105 100

120 9.7 22.4 67.2#





#85

sec-Butylbenzene

Concen: 18.392 ug/l

RT: 11.014 min Scan# 3101

Delta R.T. 0.003 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

Instrument :

MSVOA_V

ClientSampleId :

MW4

Tgt Ion:105 Resp: 722400

Ion Ratio Lower Upper

105 100

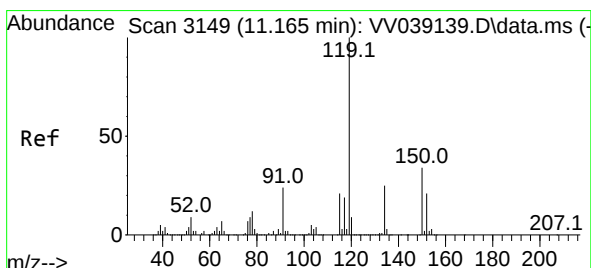
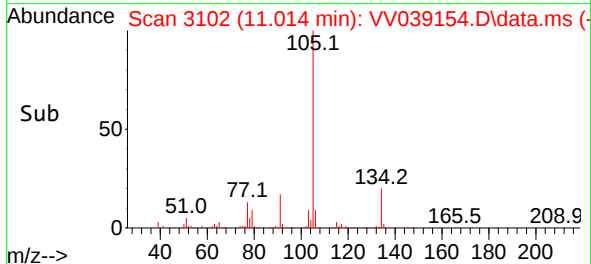
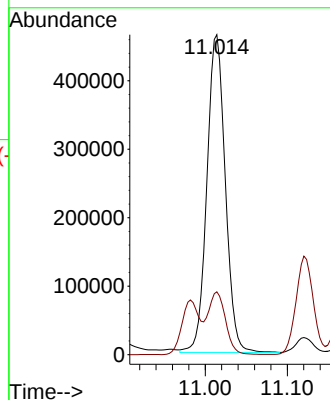
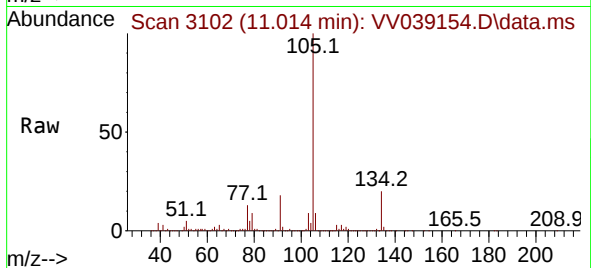
134 18.5 9.6 28.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#86

p-Isopropyltoluene

Concen: 14.174 ug/l

RT: 11.168 min Scan# 3150

Delta R.T. 0.003 min

Lab File: VV039154.D

Acq: 24 Sep 2025 15:53

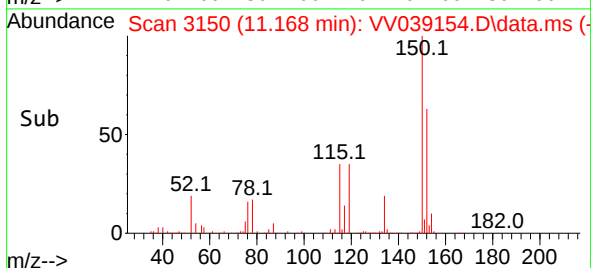
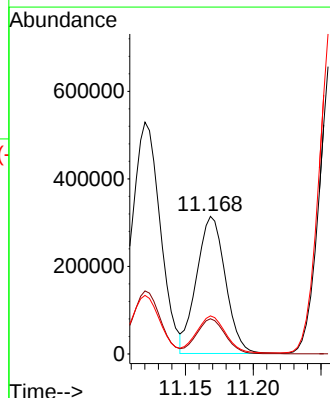
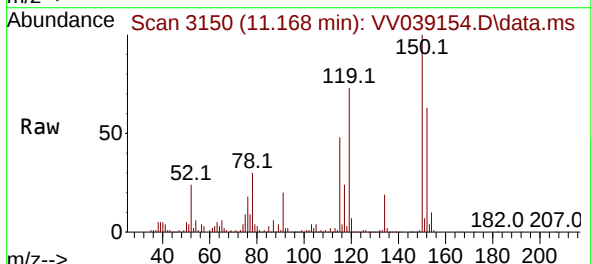
Tgt Ion:119 Resp: 463357

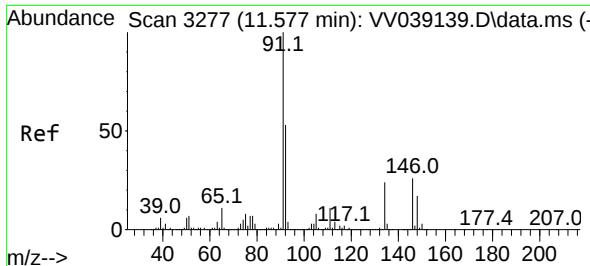
Ion Ratio Lower Upper

119 100

134 25.7 12.7 38.0

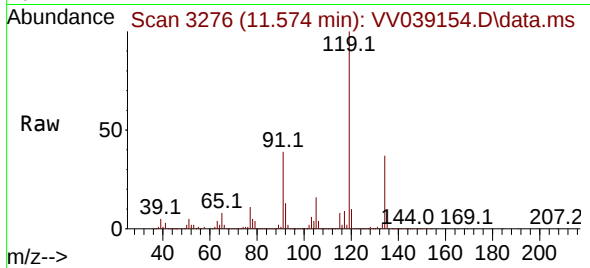
91 26.9 12.0 36.1





#89
n-Butylbenzene
Concen: 47.897 ug/l m
RT: 11.574 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

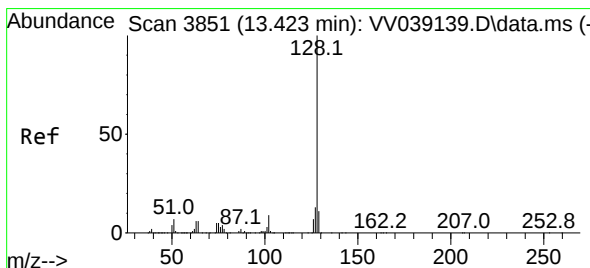
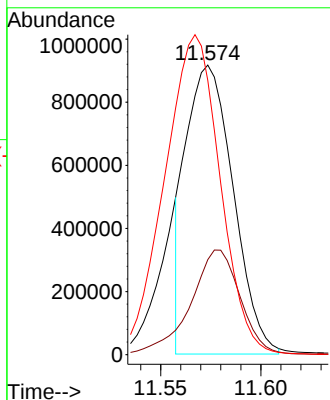
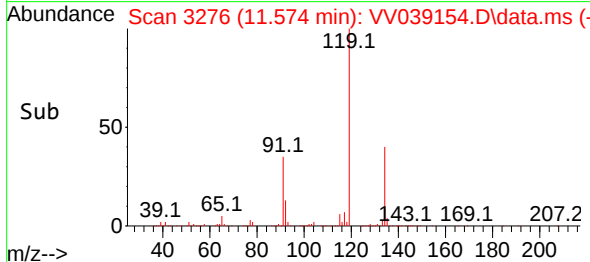
Instrument :
MSVOA_V
ClientSampleId :
MW4



Tgt Ion: 91 Resp: 1495420
Ion Ratio Lower Upper
91 100
92 38.2 26.6 79.8
134 130.1 12.1 36.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#95
Naphthalene
Concen: 303.997 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039154.D
Acq: 24 Sep 2025 15:53

Tgt Ion:128 Resp: 9872434
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 11.5 8.6 13.0

