

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040324\
 Data File : VW034961.D
 Acq On : 03 Apr 2024 17:02
 Operator : SY/MD
 Sample : P1925-21 200X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DUP-1(20240328)

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2024
 Supervised By :Semsettin Yesilyurt 04/09/2024

Quant Time: Apr 04 02:55:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 04 02:49:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	174141	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	177590	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	90591	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	63664	4.436	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.800%
7) Chloroethane-d5	1.535	69	57042	4.821	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.400%
11) 1,1-Dichloroethene-d2	2.060	65	29818	4.575	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.400%
20) 2-Butanone-d5	3.802	46	84110	37.457	ug/L	-0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.920%
24) Chloroform-d	4.249	84	118969	5.123	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
26) 1,2-Dichloroethane-d4	4.944	65	57709	5.503	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.000%
32) Benzene-d6	4.963	84	235186	5.063	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.200%
36) 1,2-Dichloropropane-d6	5.989	67	76152	5.585	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.800%
41) Toluene-d8	7.246	98	201787	4.782	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.600%
43) trans-1,3-Dichloroprop...	7.561	79	23961	4.947	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.000%
46) 2-Hexanone-d5	8.027	63	92340	55.548	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.100%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	52237	5.491	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.800%
66) 1,2-Dichlorobenzene-d4	11.561	152	77076	5.401	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	8455	0.486	ug/L	85
16) Methylene chloride	2.449	84	3530	0.243	ug/L	74
22) cis-1,2-Dichloroethene	3.812	96	597672	43.549	ug/L	97
33) Benzene	5.018	78	20534	0.378	ug/L	100
34) Trichloroethene	5.834	95	58261	4.113	ug/L	95
35) Methylcyclohexane	6.047	83	3927	0.182	ug/L	89
42) Toluene	7.313	91	2106130	36.852	ug/L	98
47) Tetrachloroethene	7.902	164	258752	24.312	ug/L	98
51) Chlorobenzene	8.815	112	136138	3.687	ug/L	98
52) Ethylbenzene	8.950	91	79241	1.284	ug/L	99
53) m,p-Xylene	9.072	106	125826	5.551	ug/L	99
54) o-Xylene	9.477	106	38802	1.745	ug/L	99
60) Isopropylbenzene	9.870	105	10971m	0.194	ug/L	
62) 1,3,5-Trimethylbenzene	10.477	105	18851	0.405	ug/L	99
63) 1,2,4-Trimethylbenzene	10.853	105	51535	1.092	ug/L	99
64) 1,3-Dichlorobenzene	11.117	146	72507	2.509	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	410471	14.183	ug/L	99
67) 1,2-Dichlorobenzene	11.577	146	118454	4.437	ug/L	98
70) 1,2,4-trichlorobenzene	13.197	180	1690729	100.314	ug/L	99

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Instrument :
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ClientSampleId :
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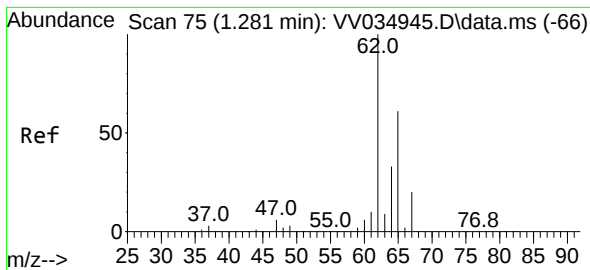
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2024
Supervised By :Semsettin Yesilyurt 04/09/2024

Quant Time: Apr 04 02:55:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Apr 04 02:49:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	13.680	180	287918	19.424	ug/L	99

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



#5

Vinyl chloride

Concen: 0.486 ug/L

RT: 1.285 min Scan# 75

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :

DUP-1(20240328)

Tgt Ion: 62 Resp: 845

Ion Ratio Lower Upper

62 100

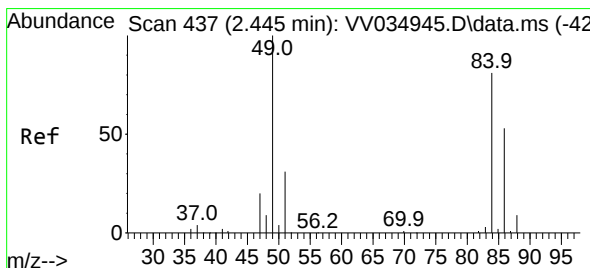
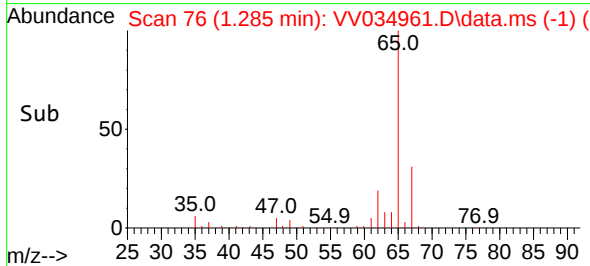
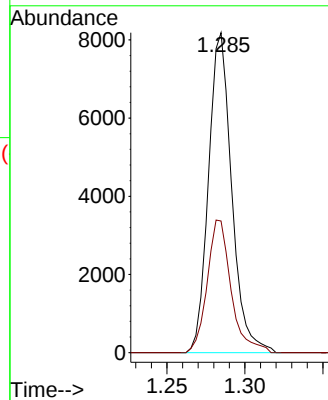
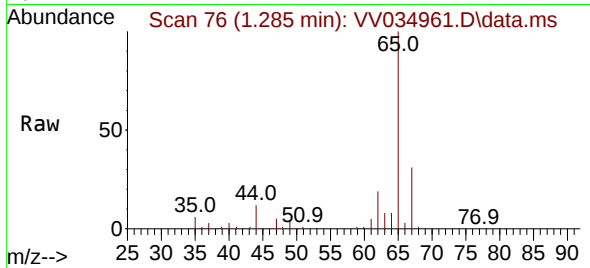
64 41.1 22.9 42.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2024

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#16

Methylene chloride

Concen: 0.243 ug/L

RT: 2.449 min Scan# 438

Delta R.T. 0.003 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

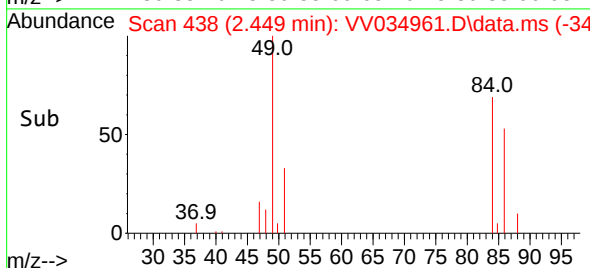
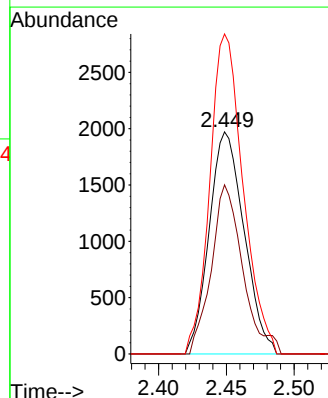
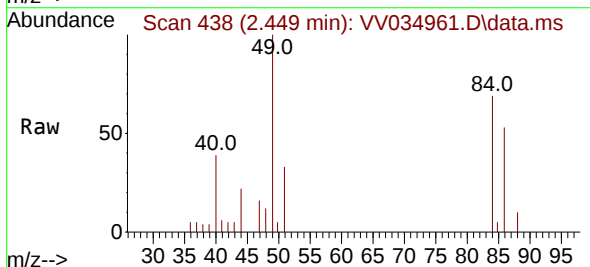
Tgt Ion: 84 Resp: 3530

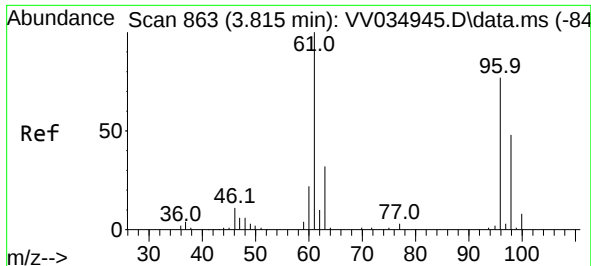
Ion Ratio Lower Upper

84 100

86 76.1 43.5 80.9

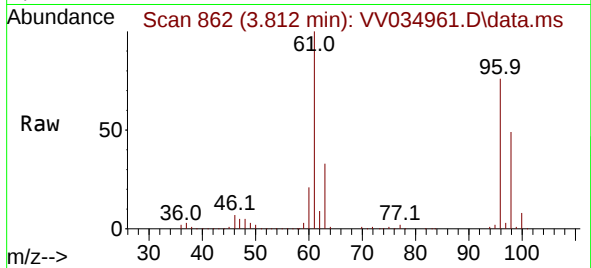
49 151.1 82.5 153.3





#22
 cis-1,2-Dichloroethene
 Concen: 43.549 ug/L
 RT: 3.812 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VV034961.D
 Acq: 03 Apr 2024 17:02

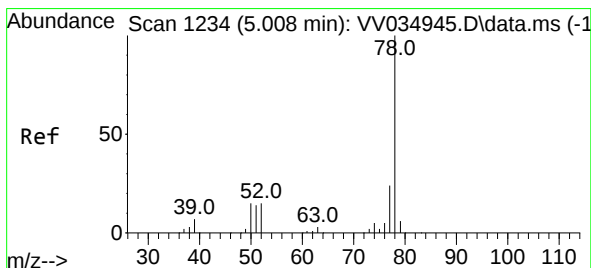
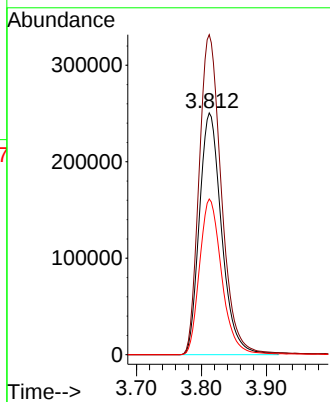
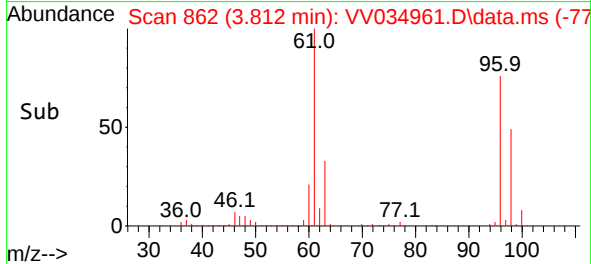
Instrument :
 MSVOA_V
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Tgt Ion: 96 Resp: 597672
 Ion Ratio Lower Upper
 96 100
 61 132.4 90.3 167.7
 98 64.4 42.7 79.3

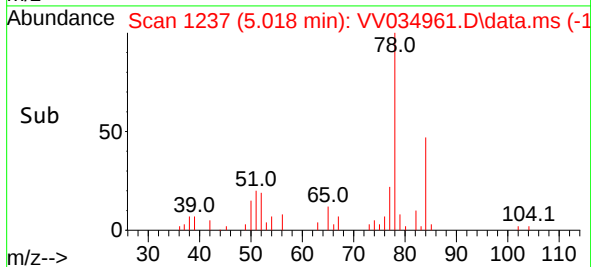
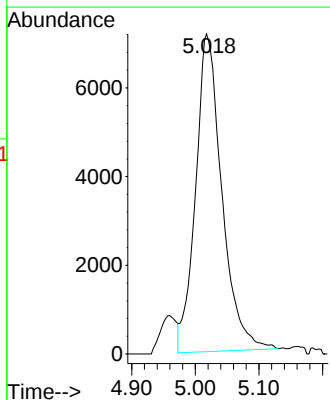
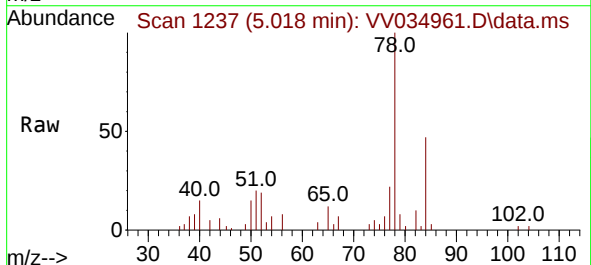
Manual Integrations
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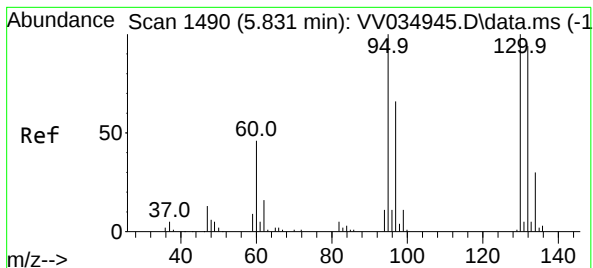
Reviewed By :Mahesh Dadoda 04/09/2024
 Supervised By :Semsettin Yesilyurt 04/09/2024



#33
 Benzene
 Concen: 0.378 ug/L
 RT: 5.018 min Scan# 1237
 Delta R.T. 0.010 min
 Lab File: VV034961.D
 Acq: 03 Apr 2024 17:02

Tgt Ion: 78 Resp: 20534





#34

Trichloroethene

Concen: 4.113 ug/L

RT: 5.834 min Scan# 1490

Delta R.T. 0.003 min

Lab File: VV034961.D

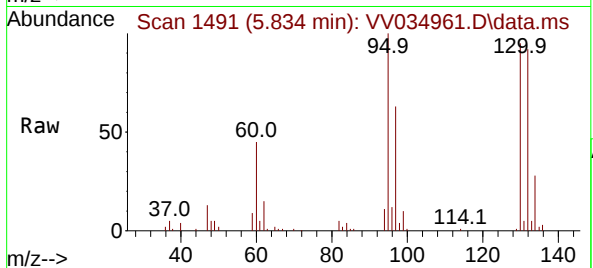
Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :

DUP-1(20240328)



Tgt Ion: 95 Resp: 5826

Ion Ratio Lower Upper

95 100

97 62.9 46.8 86.8

132 91.5 68.0 126.4

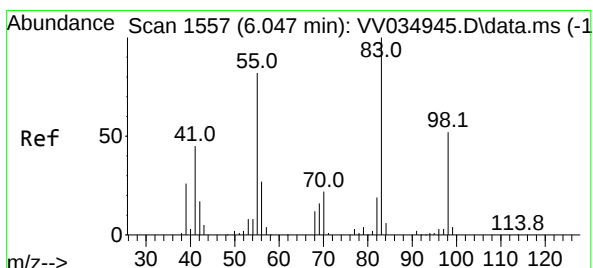
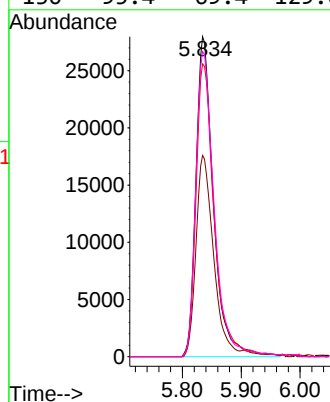
130 95.4 69.4 129.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2024

Supervised By :Semsettin Yesilyurt 04/09/2024



#35

Methylcyclohexane

Concen: 0.182 ug/L

RT: 6.047 min Scan# 1557

Delta R.T. 0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

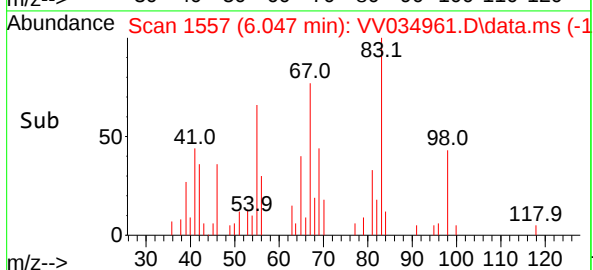
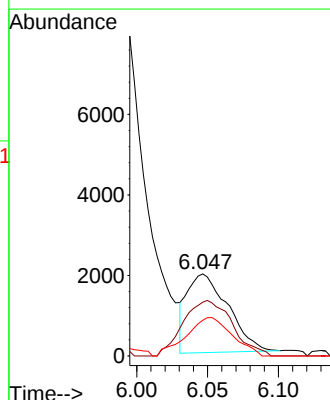
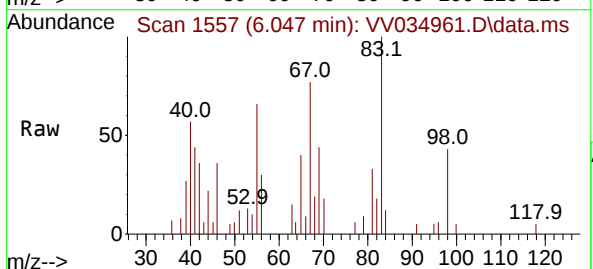
Tgt Ion: 83 Resp: 3927

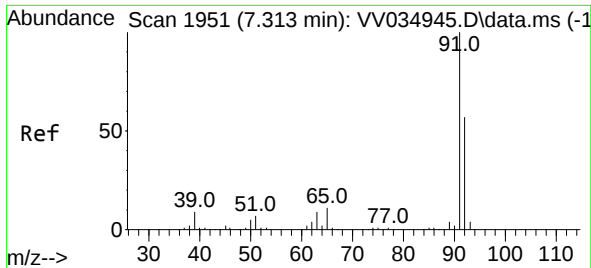
Ion Ratio Lower Upper

83 100

55 84.8 60.6 91.0

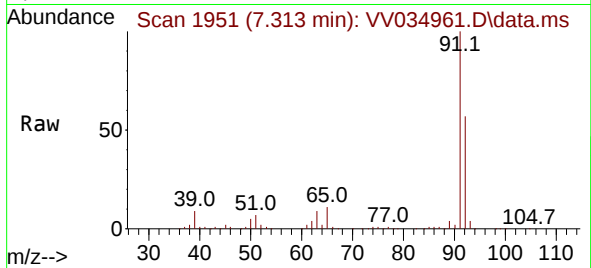
98 54.6 37.8 56.6





#42
Toluene
Concen: 36.852 ug/L
RT: 7.313 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

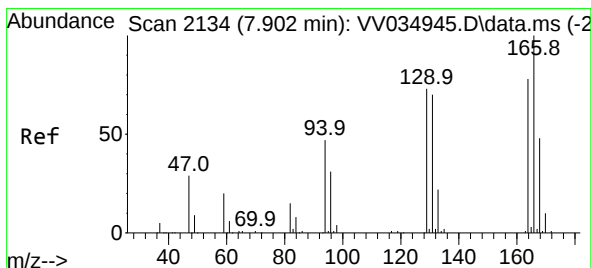
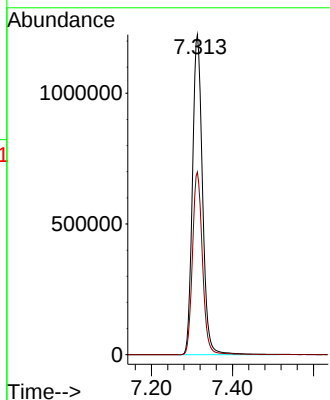
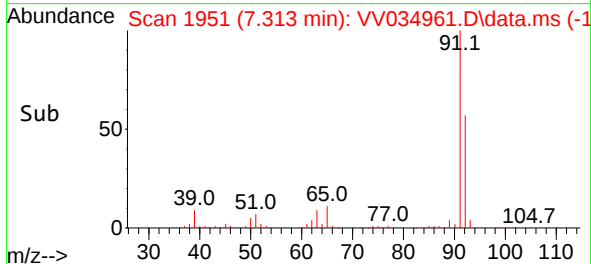
Instrument :
MSVOA_V
ClientSampleId :
DUP-1(20240328)



Tgt Ion: 91 Resp: 2106130
Ion Ratio Lower Upper
91 100
92 57.1 38.9 72.2

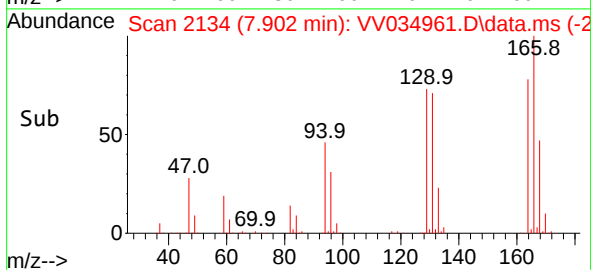
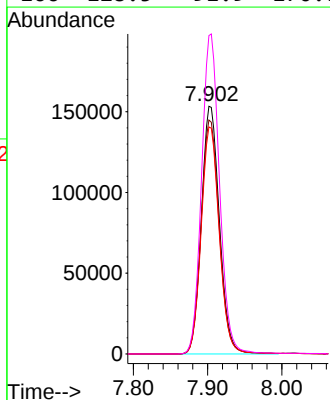
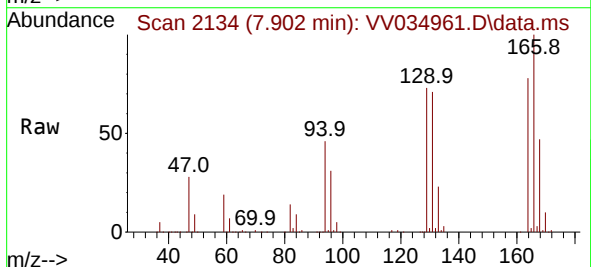
Manual Integrations
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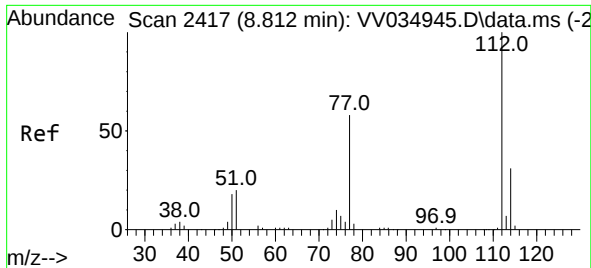
Reviewed By :Mahesh Dadoda 04/09/2024
Supervised By :Semsettin Yesilyurt 04/09/2024



#47
Tetrachloroethene
Concen: 24.312 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

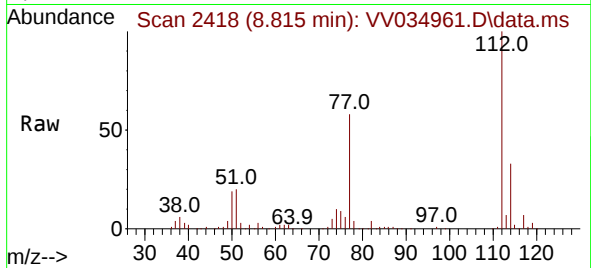
Tgt Ion:164 Resp: 258752
Ion Ratio Lower Upper
164 100
129 94.4 66.0 122.6
131 91.6 63.0 117.0
166 128.5 91.9 170.7





#51
Chlorobenzene
Concen: 3.687 ug/L
RT: 8.815 min Scan# 2417
Delta R.T. 0.003 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

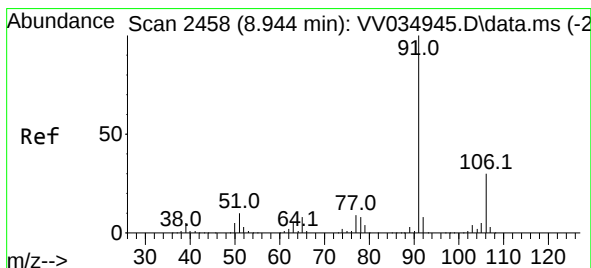
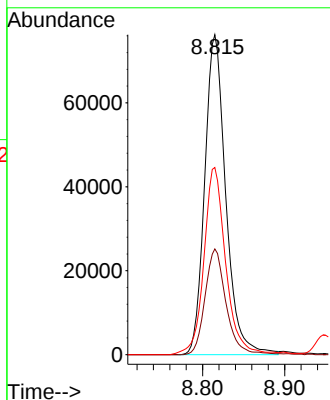
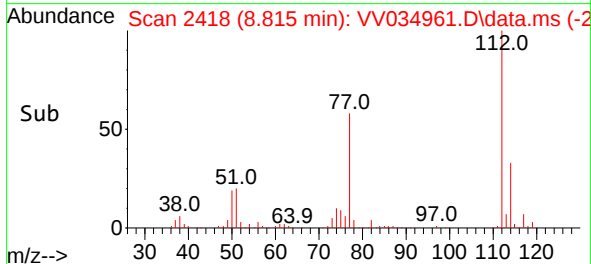
Instrument :
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Tgt Ion: 112 Resp: 136138
Ion Ratio Lower Upper
112 100
114 33.1 21.9 40.7
77 58.5 47.4 71.2

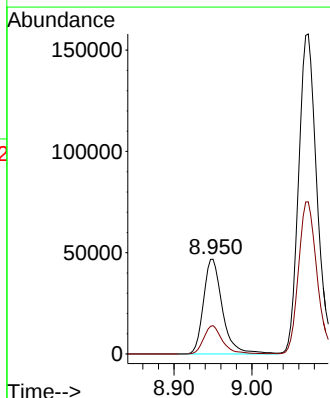
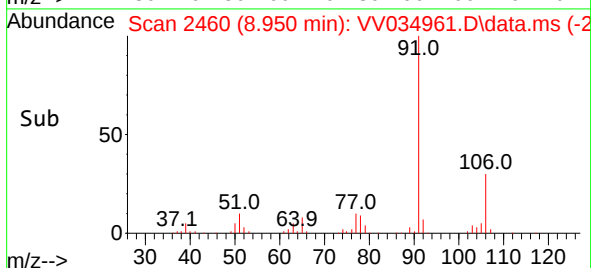
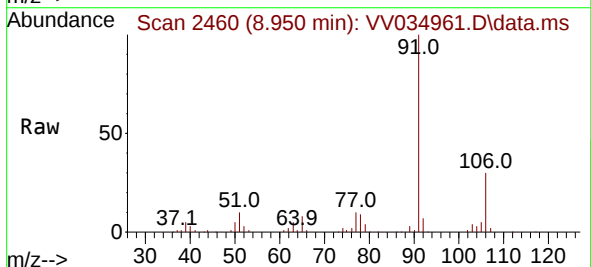
Manual Integrations
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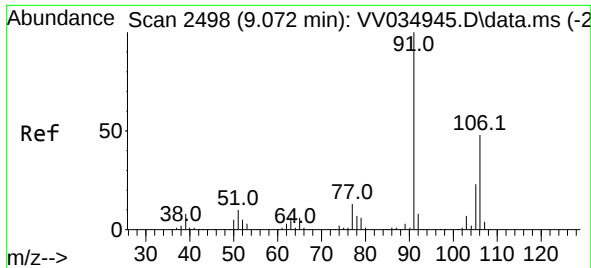
Reviewed By :Mahesh Dadoda 04/09/2024
Supervised By :Semsettin Yesilyurt 04/09/2024



#52
Ethylbenzene
Concen: 1.284 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.006 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

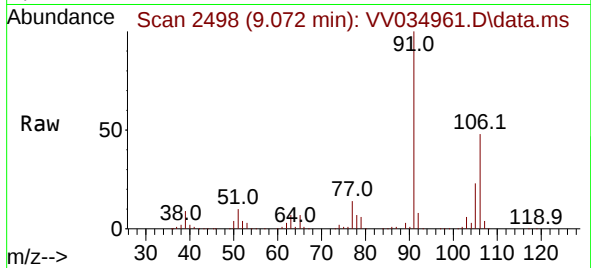
Tgt Ion: 91 Resp: 79241
Ion Ratio Lower Upper
91 100
106 30.0 21.2 39.4





#53
m,p-Xylene
Concen: 5.551 ug/L
RT: 9.072 min Scan# 2498
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

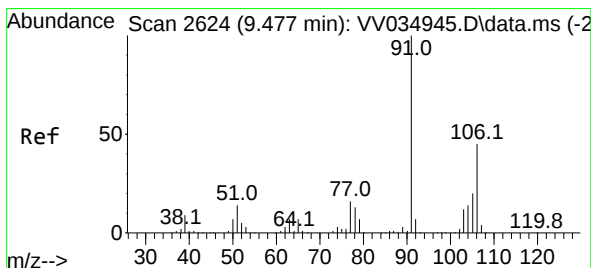
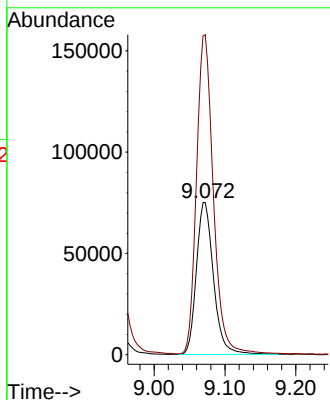
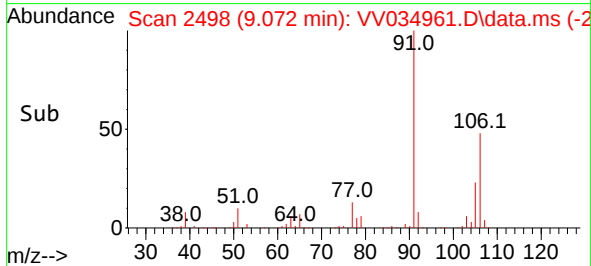
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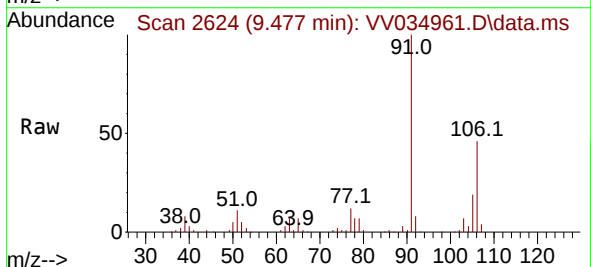
Tgt Ion:106 Resp: 125820
Ion Ratio Lower Upper
106 100
91 210.2 145.7 270.7

Manual Integrations
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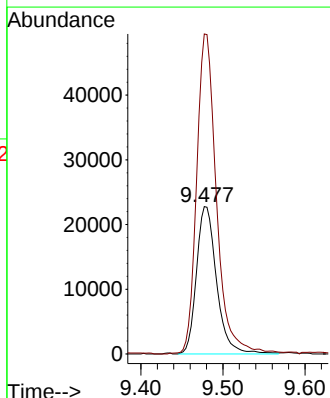
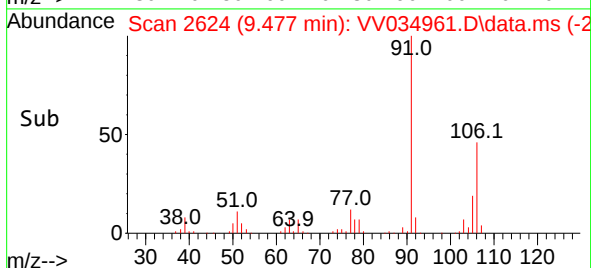
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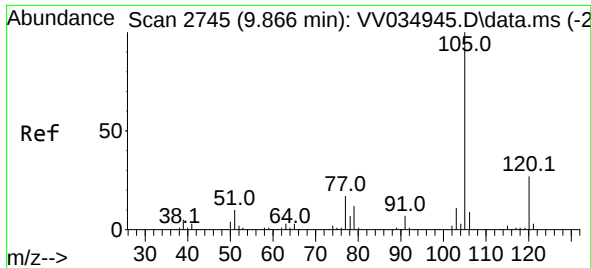


#54
o-Xylene
Concen: 1.745 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02



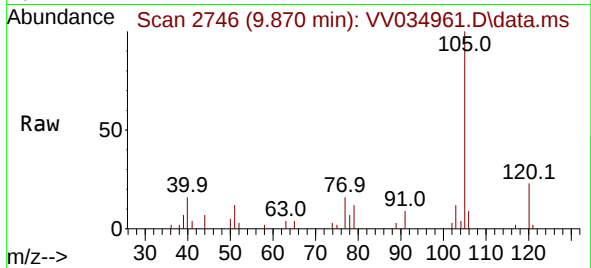
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Ion Ratio Lower Upper
106 100
91 217.1 151.2 280.8





#60
Isopropylbenzene
Concen: 0.194 ug/L m
RT: 9.870 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

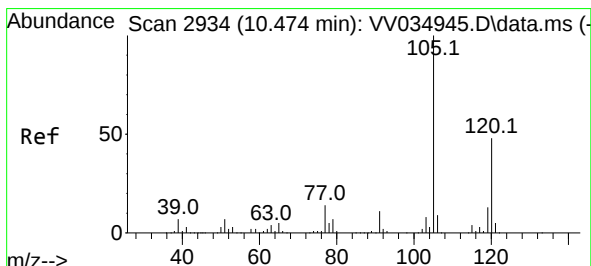
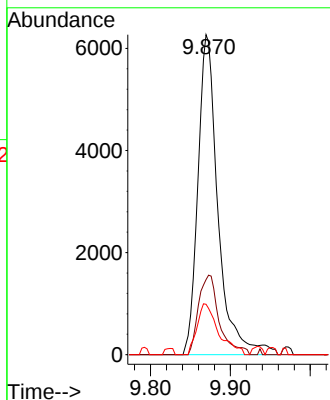
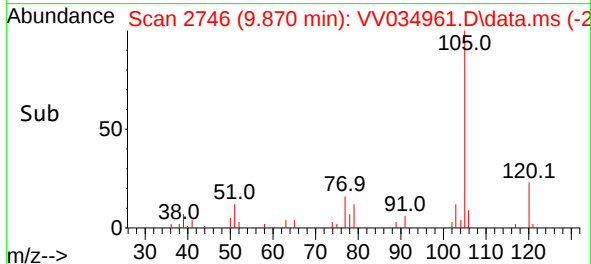
Instrument :
MSVOA_V
ClientSampleId :
DUP-1(20240328)



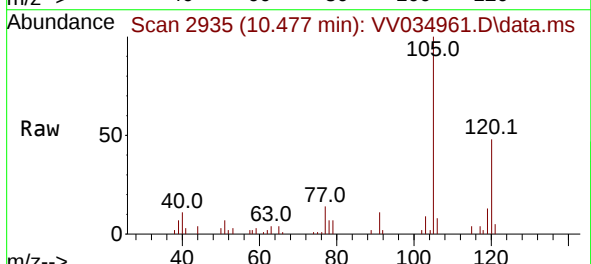
Tgt Ion:105 Resp: 1097
Ion Ratio Lower Upper
105 100
120 56.5 21.0 31.4
77 26.2 13.4 20.2

Manual Integrations
APPROVED

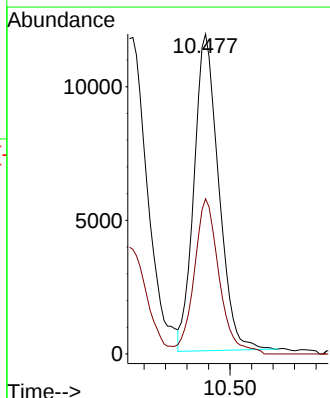
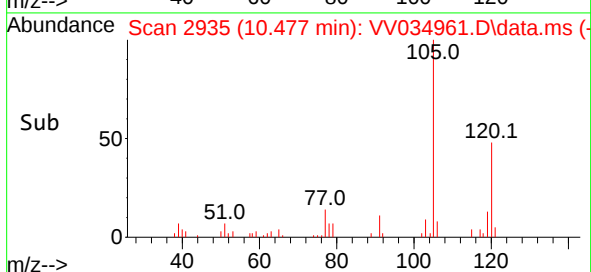
Reviewed By :Mahesh Dadoda 04/09/2024
Supervised By :Semsettin Yesilyurt 04/09/2024

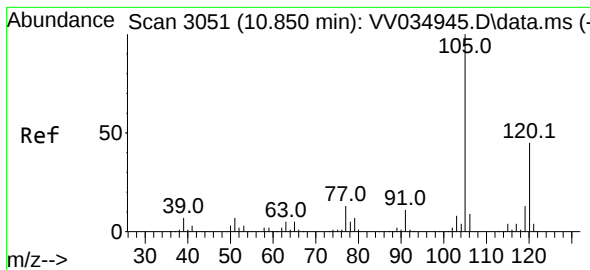


#62
1,3,5-Trimethylbenzene
Concen: 0.405 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.003 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02



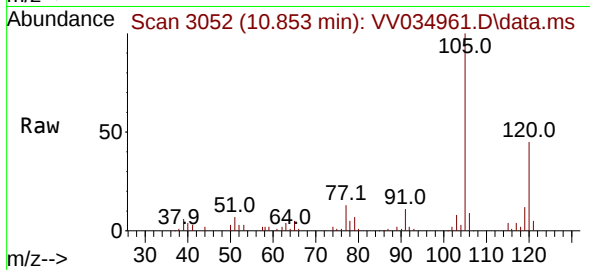
Tgt Ion:105 Resp: 18851
Ion Ratio Lower Upper
105 100
120 49.6 39.2 58.8





#63
1,2,4-Trimethylbenzene
Concen: 1.092 ug/L
RT: 10.853 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02

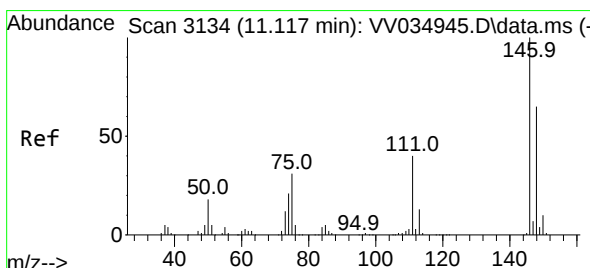
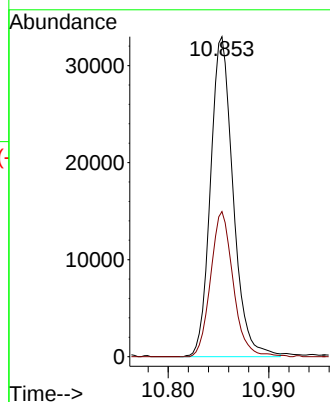
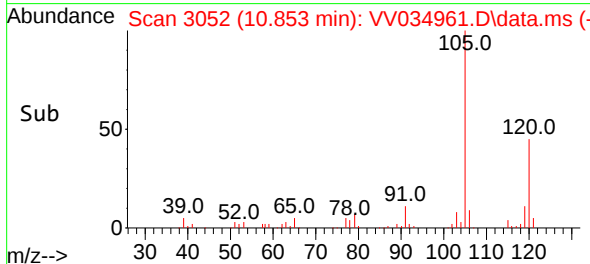
Instrument :
MSVOA_V
ClientSampleId :
DUP-1(20240328)



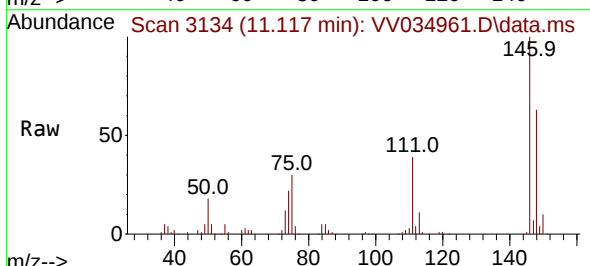
Tgt Ion:105 Resp: 5153
Ion Ratio Lower Upper
105 100
120 45.3 35.8 53.8

Manual Integrations
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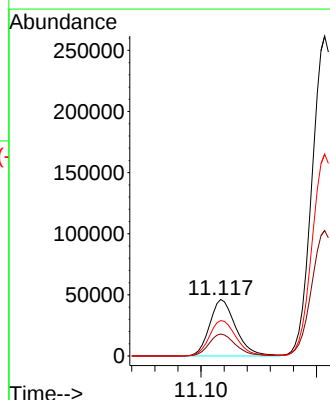
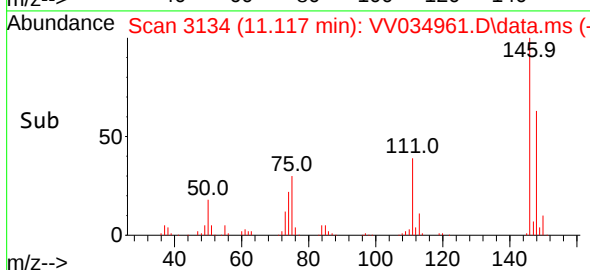
Reviewed By :Mahesh Dadoda 04/09/2024
Supervised By :Semsettin Yesilyurt 04/09/2024

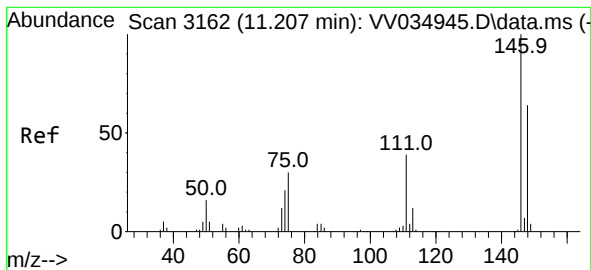


#64
1,3-Dichlorobenzene
Concen: 2.509 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.000 min
Lab File: VV034961.D
Acq: 03 Apr 2024 17:02



Tgt Ion:146 Resp: 72507
Ion Ratio Lower Upper
146 100
111 38.7 27.7 51.5
148 62.6 44.0 81.8





#65

1,4-Dichlorobenzene

Concen: 14.183 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. 0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :

DUP-1(20240328)

Tgt Ion:146 Resp: 41047

Ion Ratio Lower Upper

146 100

111 39.2 27.3 50.7

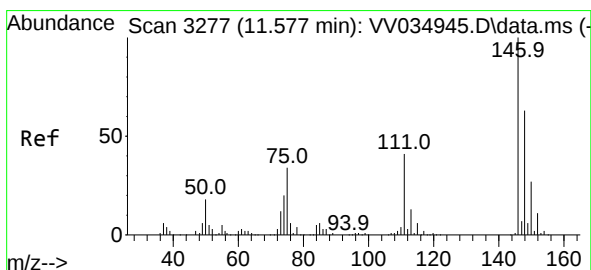
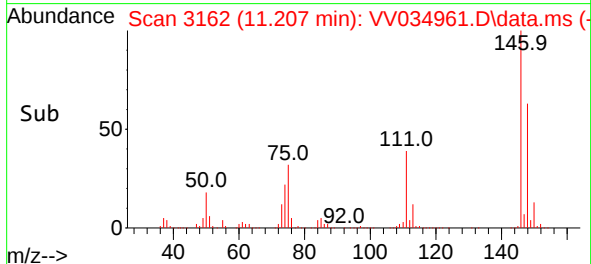
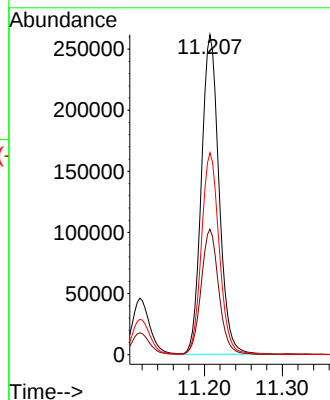
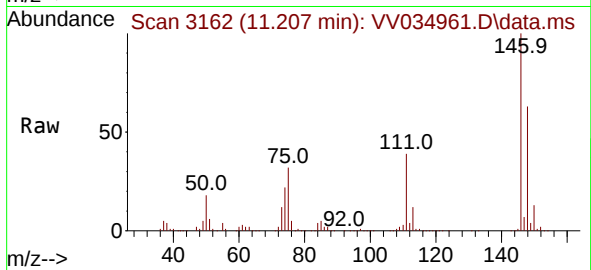
148 63.1 43.5 80.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2024

Supervised By :Semsettin Yesilyurt 04/09/2024



#67

1,2-Dichlorobenzene

Concen: 4.437 ug/L

RT: 11.577 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

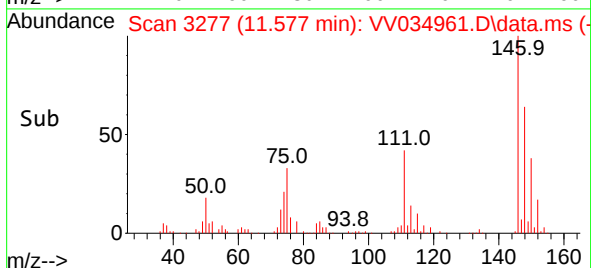
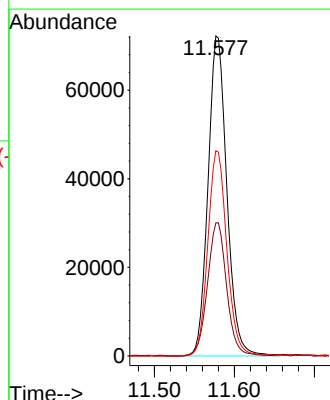
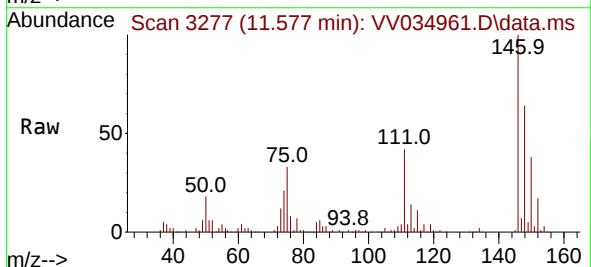
Tgt Ion:146 Resp: 118454

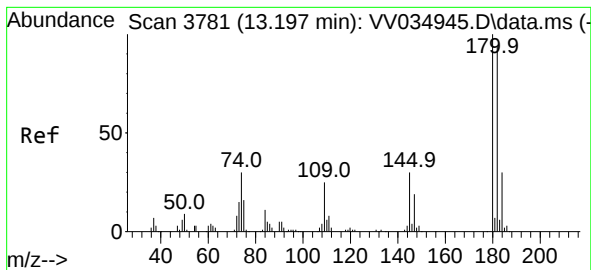
Ion Ratio Lower Upper

146 100

111 41.6 33.9 50.9

148 64.2 49.3 73.9





#70

1,2,4-trichlorobenzene

Concen: 100.314 ug/L

RT: 13.197 min Scan# 3781

Delta R.T. 0.000 min

Lab File: VV034961.D

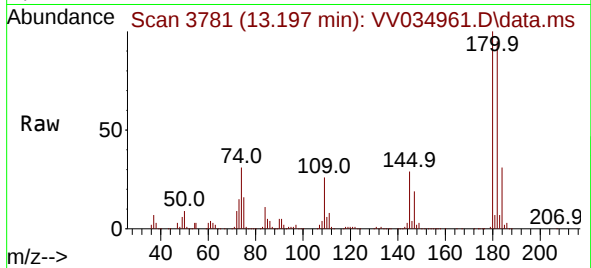
Acq: 03 Apr 2024 17:02

Instrument :

MSVOA_V

ClientSampleId :

DUP-1(20240328)



Tgt Ion:180 Resp: 1690729

Ion Ratio Lower Upper

180 100

182 95.5 75.3 112.9

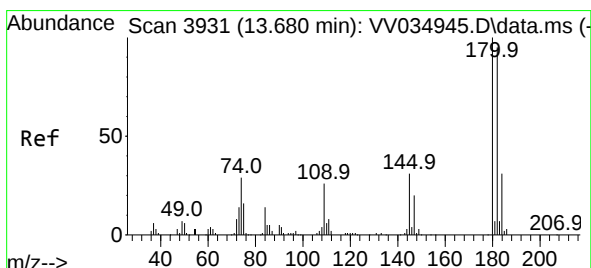
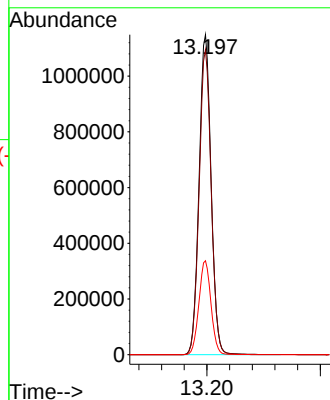
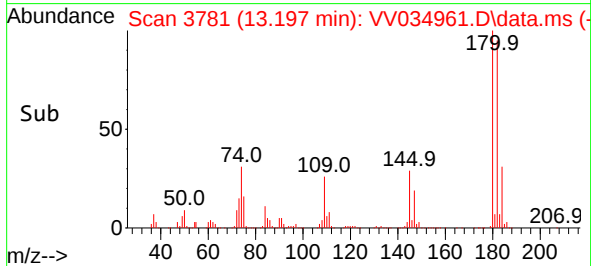
145 29.5 23.4 35.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2024

Supervised By :Semsettin Yesilyurt 04/09/2024



#72

1,2,3-Trichlorobenzene

Concen: 19.424 ug/L

RT: 13.680 min Scan# 3931

Delta R.T. 0.000 min

Lab File: VV034961.D

Acq: 03 Apr 2024 17:02

Tgt Ion:180 Resp: 287918

Ion Ratio Lower Upper

180 100

182 95.5 77.0 115.4

145 31.5 25.4 38.2

