

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033306.D
 Acq On : 14 Dec 2023 03:31
 Operator : SY/MD
 Sample : 05770-06
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EOY78

Quant Time: Dec 14 04:37:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 14 01:07:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin
 Yesilyurt

12/16/2023

Supervised By :Mahesh

Supervised By :Mahesh

12/16/2023

12/18/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	127972	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	122623	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	66054	5.000	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.272	65	39220	4.781	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.600%
7) Chloroethane-d5	1.526	69	29835	4.890	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.800%
11) 1,1-Dichloroethene-d2	2.050	65	15826	4.847	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.000%
20) 2-Butanone-d5	3.899	46	53867m	55.485	ug/L	0.10
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.980%
24) Chloroform-d	4.243	84	88927	5.197	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.000%
26) 1,2-Dichloroethane-d4	4.944	65	39970	5.376	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.600%
32) Benzene-d6	4.953	84	164451	5.184	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.600%
36) 1,2-Dichloropropane-d6	5.989	67	39175	5.426	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.600%
41) Toluene-d8	7.239	98	158717	5.135	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.600%
43) trans-1,3-Dichloroprop...	7.555	79	16996	5.160	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.200%
46) 2-Hexanone-d5	8.037	63	49533	53.867	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.740%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	27846	5.702	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.000%
66) 1,2-Dichlorobenzene-d4	11.561	152	65615	5.640	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.800%

Target Compounds

						Qvalue
5) Vinyl chloride	1.275	62	78251	8.471	ug/L	100
12) 1,1-Dichloroethene	2.060	96	1601	0.219	ug/L #	1
13) Acetone	2.236	43	12599m	18.336	ug/L	
14) Carbon disulfide	2.233	76	5489	0.230	ug/L	98
16) Methylene chloride	2.439	84	2539	0.301	ug/L	96
18) trans-1,2-Dichloroethene	2.683	96	3912	0.441	ug/L	95
21) 2-Butanone	3.989	43	12190m	12.178	ug/L	
22) cis-1,2-Dichloroethene	3.802	96	3068474	334.809	ug/L	92
25) Chloroform	4.269	83	35465	2.161	ug/L	98
30) Cyclohexane	4.561	56	3349m	0.309	ug/L	
33) Benzene	5.002	78	78974	2.404	ug/L	100
34) Trichloroethene	5.825	95	318037	33.199	ug/L	98
35) Methylcyclohexane	6.040	83	4319	0.304	ug/L	91
38) Bromodichloromethane	6.436	83	1421	0.134	ug/L #	91
40) 4-Methyl-2-pentanone	7.175	43	36827	15.748	ug/L	98
42) Toluene	7.310	91	554657	14.738	ug/L	99
47) Tetrachloroethene	7.905	164	1125	0.124	ug/L	82
51) Chlorobenzene	8.818	112	6395	0.248	ug/L	98
52) Ethylbenzene	8.947	91	111474	2.644	ug/L	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121323\
 Data File : VV033306.D
 Acq On : 14 Dec 2023 03:31
 Operator : SY/MD
 Sample : 05770-06
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y78

Quant Time: Dec 14 04:37:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 14 01:07:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin
 Yesilyurt
 12/16/2023

Supervised By :Mahesh
 Dated : 12/16/2023
 Approved By :Mahesh
 Date : 12/16/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.072	106	17062	0.983	ug/L	87
54) o-Xylene	9.477	106	8238	0.501	ug/L	99
55) Styrene	9.497	104	49713	1.844	ug/L	90
60) Isopropylbenzene	9.866	105	19725	0.451	ug/L	98
62) 1,3,5-Trimethylbenzene	10.477	105	7503	0.210	ug/L	97
63) 1,2,4-Trimethylbenzene	10.854	105	49394	1.395	ug/L	96
65) 1,4-Dichlorobenzene	11.214	146	5446	0.246	ug/L	88
67) 1,2-Dichlorobenzene	11.583	146	3817	0.199	ug/L	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121323\
Data File : VV033306.D
Acq On : 14 Dec 2023 03:31
Operator : SY/MD
Sample : 05770-06
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
E0Y78

Quant Time: Dec 14 04:37:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Dec 14 01:07:25 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

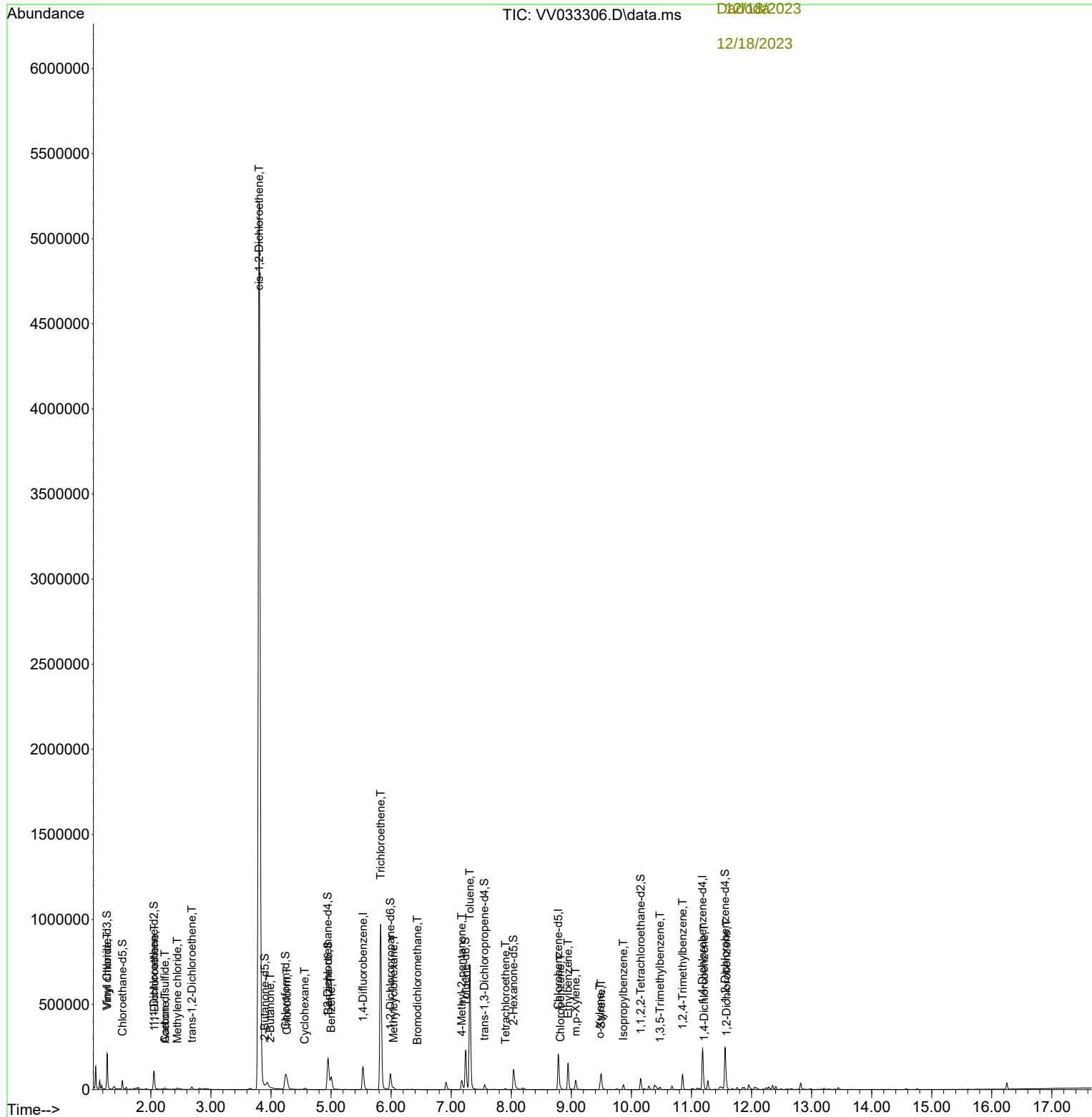
12/16/2023

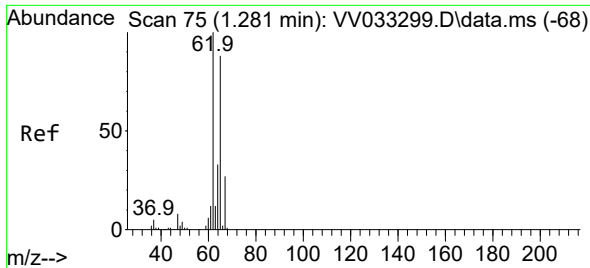
Supervised By :Mahesh

Validated By :Mahesh

12/16/2023

12/18/2023





#5
 Vinyl chloride
 Concen: 8.471 ug/L
 RT: 1.275 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VV033306.D
 Acq: 14 Dec 2023 03:31

Instrument :
 MSVOA_V
 Client Sample Id :
 E0Y78

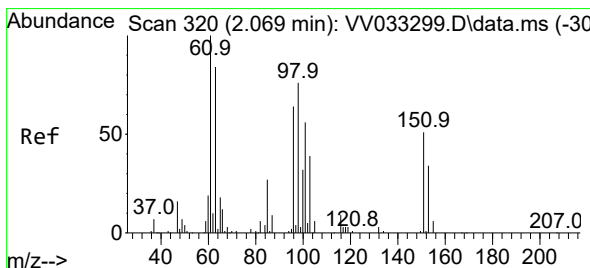
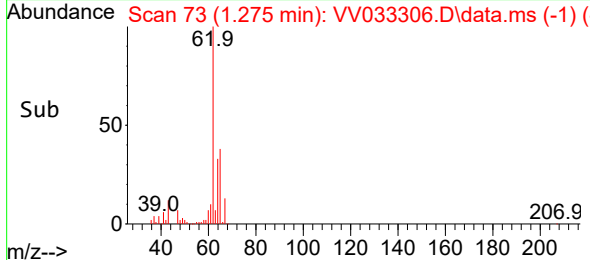
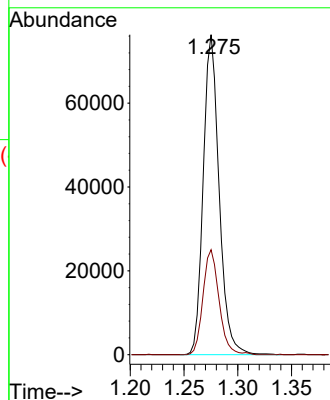
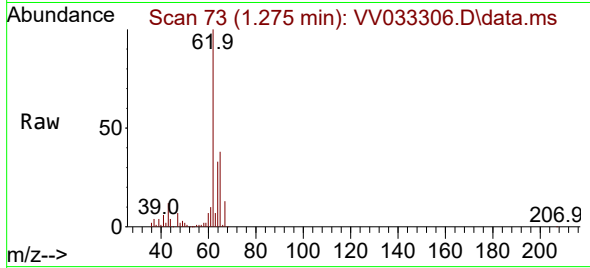
Tgt Ion: 62 Resp: 7825
 Ion Ratio Lower Upper
 62 100
 64 32.8 23.0 42.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt
 12/16/2023

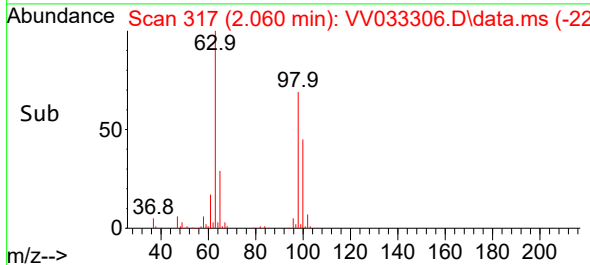
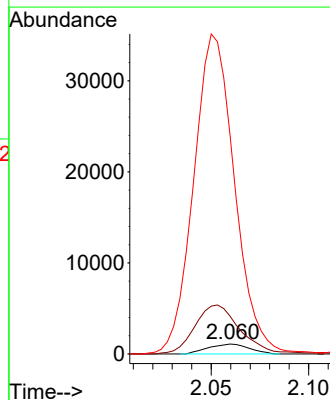
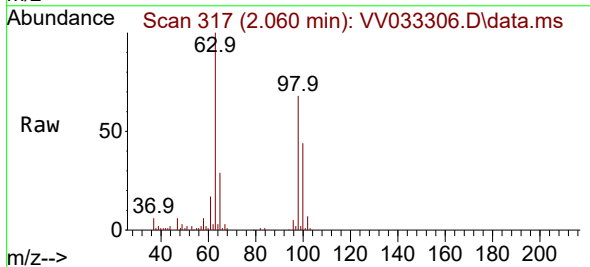
Supervised By :Mahesh
 Dapodis By :Mahesh
 12/16/2023

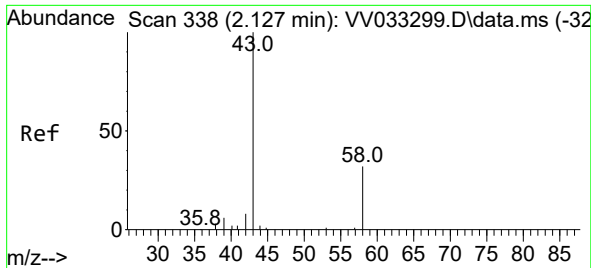
12/18/2023



#12
 1,1-Dichloroethene
 Concen: 0.219 ug/L
 RT: 2.060 min Scan# 317
 Delta R.T. -0.010 min
 Lab File: VV033306.D
 Acq: 14 Dec 2023 03:31

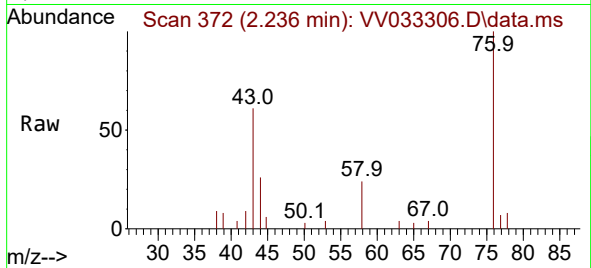
Tgt Ion: 96 Resp: 1601
 Ion Ratio Lower Upper
 96 100
 61 381.5 111.6 207.2#
 63 2211.0 87.1 161.7#





#13
Acetone
Concen: 18.336 ug/L m
RT: 2.236 min Scan# 31
Delta R.T. 0.109 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
ClientSampleId :
E0Y78



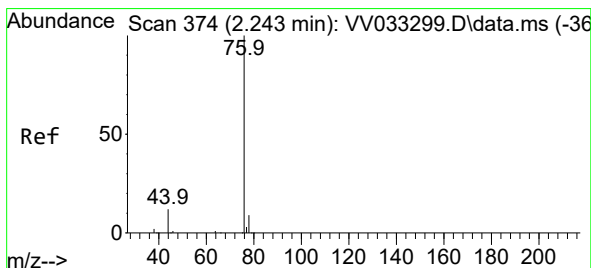
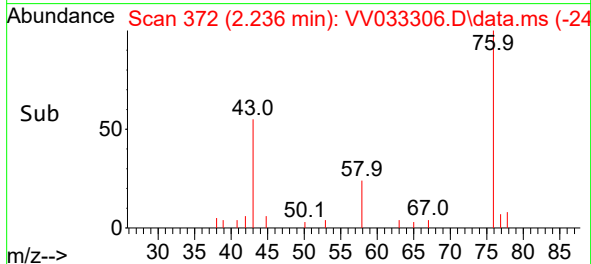
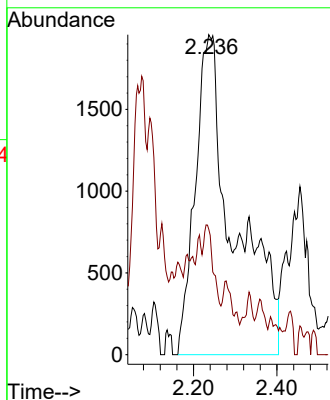
Tgt Ion: 43 Resp: 1259
Ion Ratio Lower Upper
43 100
58 10.6 0.0 30.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

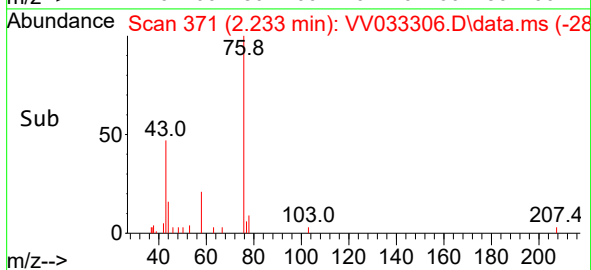
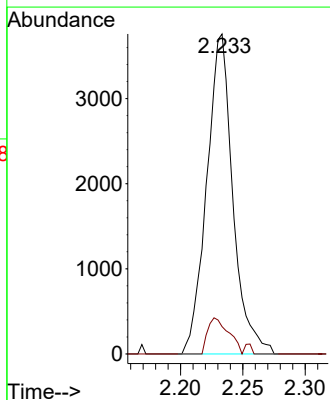
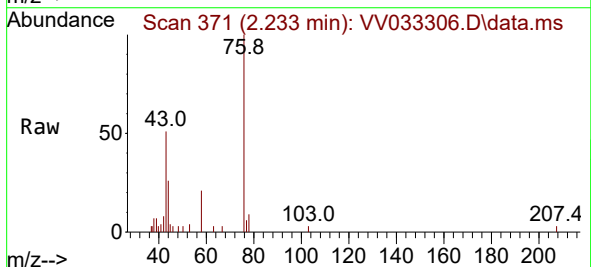
Sampled By :Mahesh
Dated By :Mahesh
Date 12/16/2023

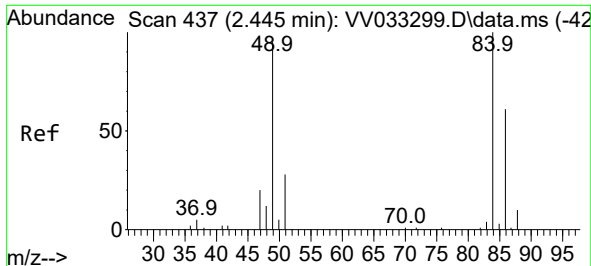
12/18/2023



#14
Carbon disulfide
Concen: 0.230 ug/L
RT: 2.233 min Scan# 371
Delta R.T. -0.010 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

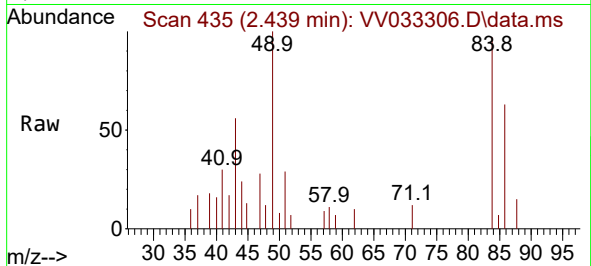
Tgt Ion: 76 Resp: 5489
Ion Ratio Lower Upper
76 100
78 8.5 7.4 11.0





#16
Methylene chloride
Concen: 0.301 ug/L
RT: 2.439 min Scan# 41
Delta R.T. -0.006 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
ClientSampleId :
E0Y78



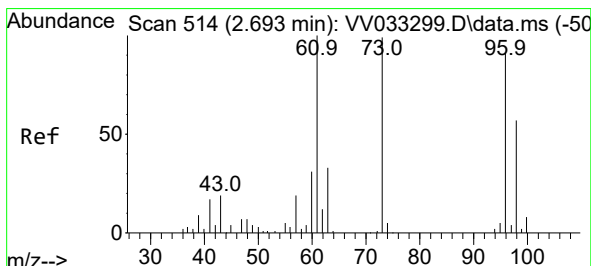
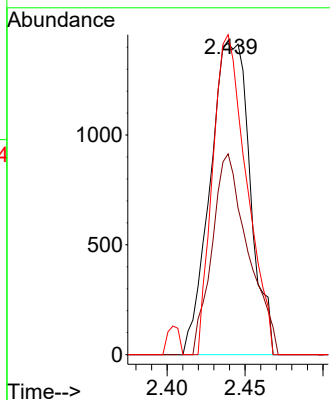
Tgt Ion: 84 Resp: 2539
Ion Ratio Lower Upper
84 100
86 64.5 47.5 88.1
49 102.8 68.9 127.9

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

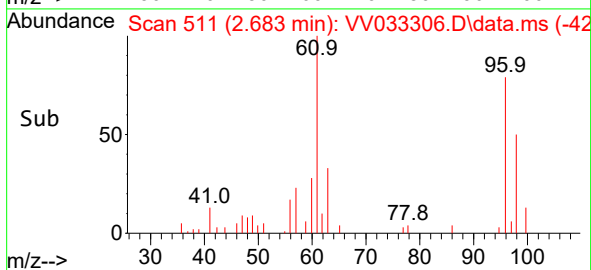
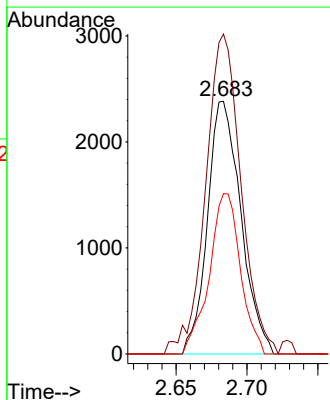
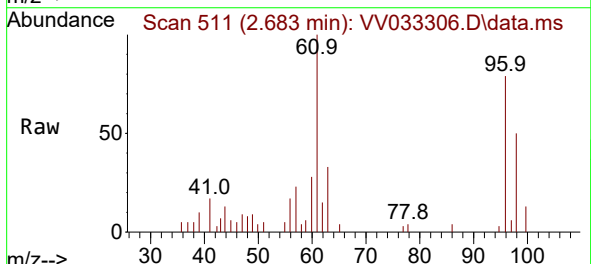
Sampled By :Mahesh
Dated By :Mahesh
Date 12/16/2023

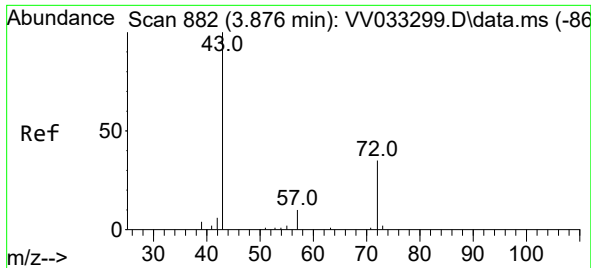
12/18/2023



#18
trans-1,2-Dichloroethene
Concen: 0.441 ug/L
RT: 2.683 min Scan# 511
Delta R.T. -0.010 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

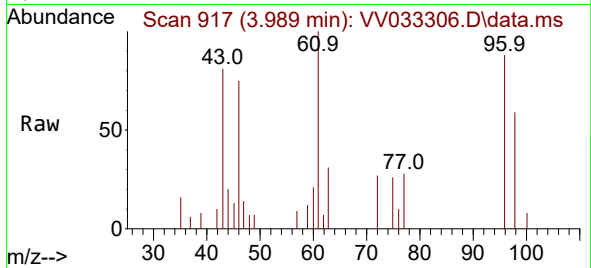
Tgt Ion: 96 Resp: 3912
Ion Ratio Lower Upper
96 100
61 126.6 84.6 157.2
98 63.4 46.7 86.7





#21
2-Butanone
Concen: 12.178 ug/L m
RT: 3.989 min Scan# 917
Delta R.T. 0.113 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
ClientSampleId :
E0Y78



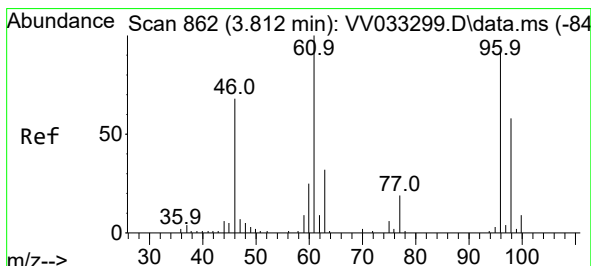
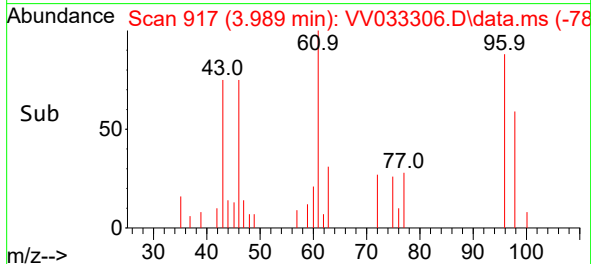
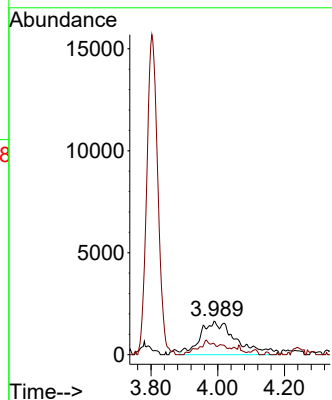
Tgt Ion: 43 Resp: 12190
Ion Ratio Lower Upper
43 100
72 0.0 14.8 44.3

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

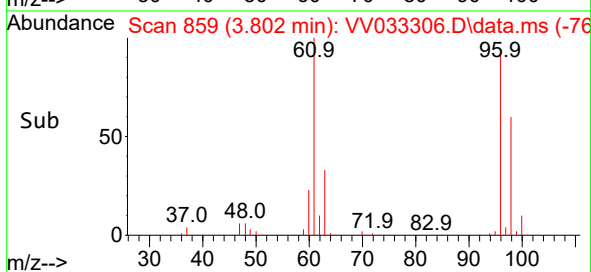
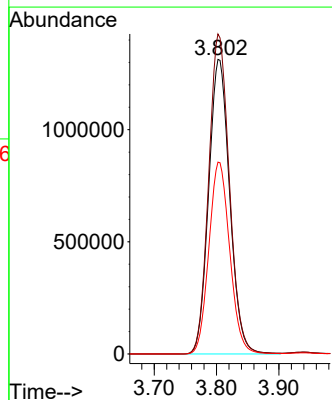
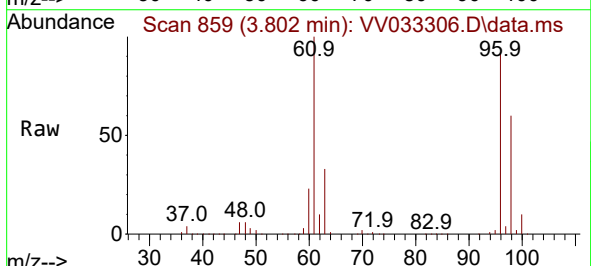
Supervised By :Mahesh
Dadodias
12/16/2023

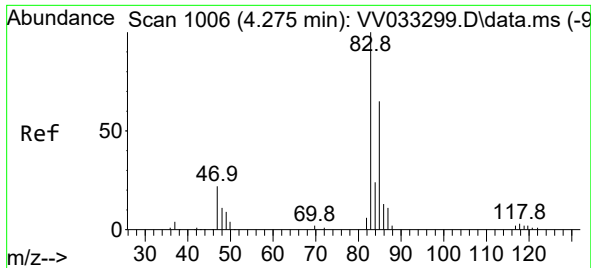
12/18/2023



#22
cis-1,2-Dichloroethene
Concen: 334.809 ug/L
RT: 3.802 min Scan# 859
Delta R.T. -0.010 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Tgt Ion: 96 Resp: 3068474
Ion Ratio Lower Upper
96 100
61 108.7 69.9 129.9
98 65.1 42.4 78.8





#25
Chloroform
Concen: 2.161 ug/L
RT: 4.269 min Scan# 1095
Delta R.T. -0.006 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

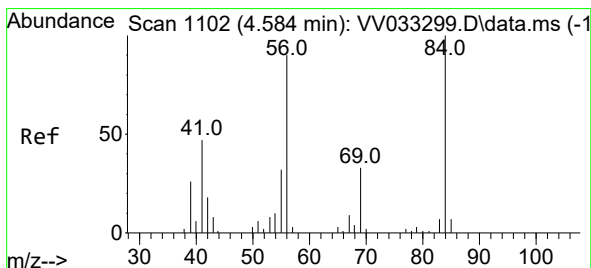
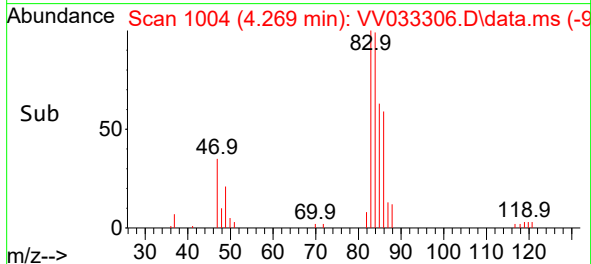
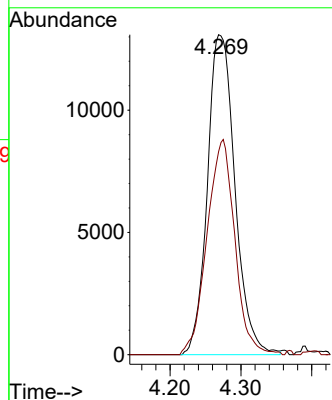
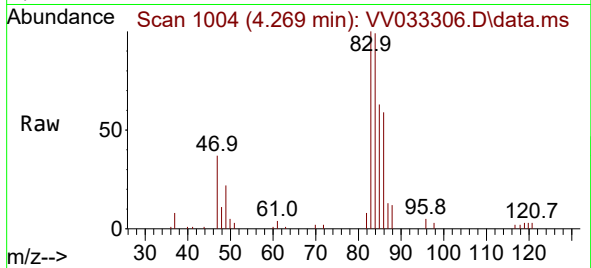
Instrument :
MSVOA_V
ClientSampleId :
E0Y78

Tgt Ion: 83 Resp: 3546
Ion Ratio Lower Upper
83 100
85 63.4 45.3 84.1

Manual Integrations
APPROVED

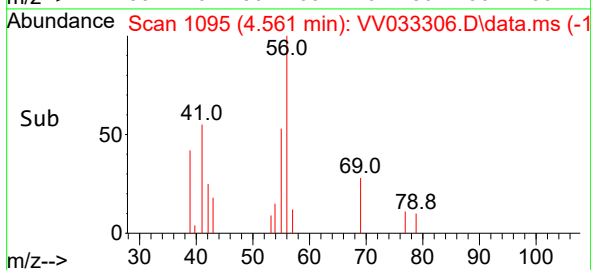
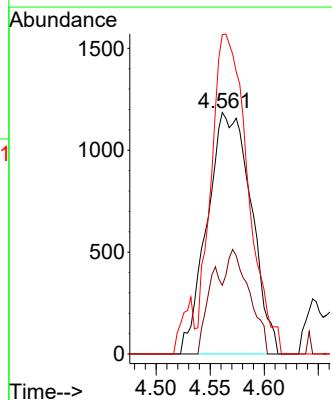
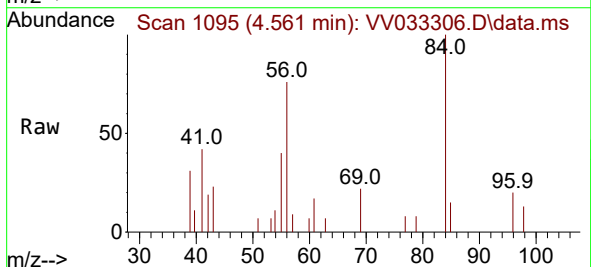
Reviewed By :Semsettin
Yesilyurt
12/16/2023

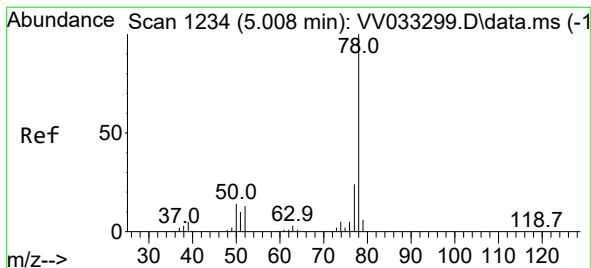
Supervised By :Mahesh
Dadodda
12/18/2023



#30
Cyclohexane
Concen: 0.309 ug/L m
RT: 4.561 min Scan# 1095
Delta R.T. -0.022 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Tgt Ion: 56 Resp: 3349
Ion Ratio Lower Upper
56 100
69 23.1 28.8 43.2#
84 110.7 86.2 129.4





#33

Benzene

Concen: 2.404 ug/L

RT: 5.002 min Scan# 1487

Delta R.T. -0.006 min

Lab File: VV033306.D

Acq: 14 Dec 2023 03:31

Instrument :

MSVOA_V

ClientSampleId :

E0Y78

Tgt Ion: 78 Resp: 78974

Manual Integrations
APPROVED

Reviewed By :Semsettin

Yesilyurt

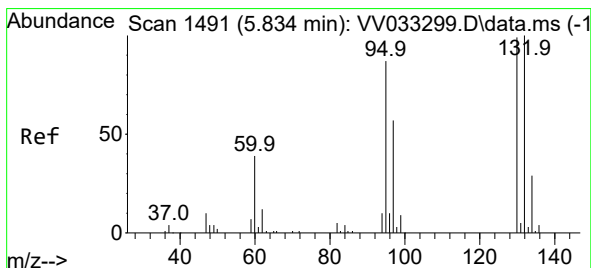
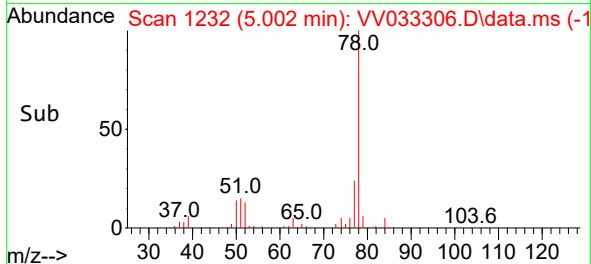
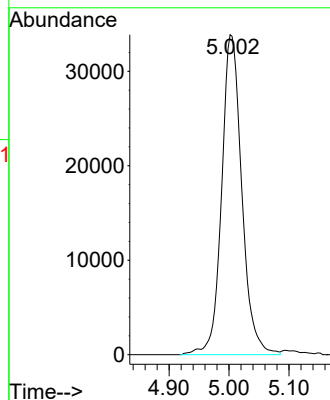
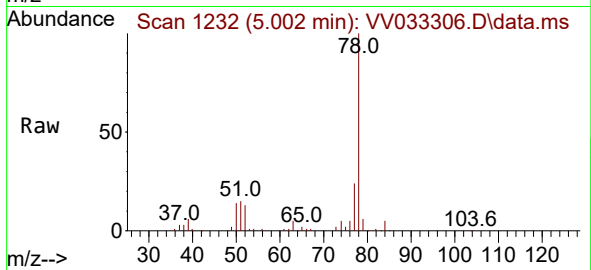
12/16/2023

Supervised By :Mahesh

Supervised By :Mahesh

12/16/2023

12/18/2023



#34

Trichloroethene

Concen: 33.199 ug/L

RT: 5.825 min Scan# 1488

Delta R.T. -0.010 min

Lab File: VV033306.D

Acq: 14 Dec 2023 03:31

Tgt Ion: 95 Resp: 318037

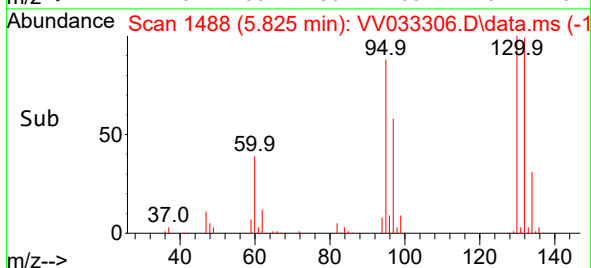
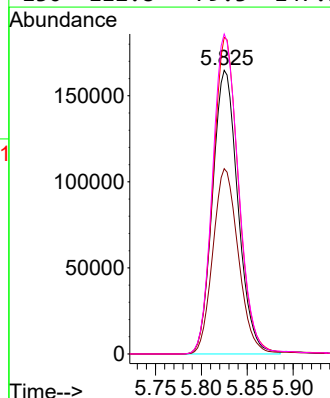
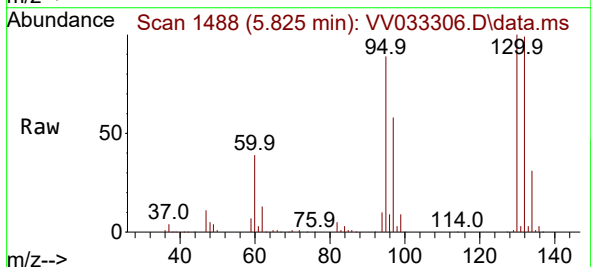
Ion Ratio Lower Upper

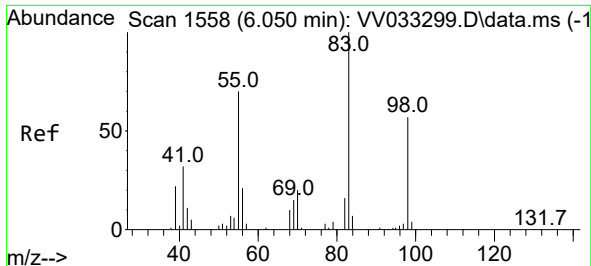
95 100

97 65.3 46.5 86.5

132 111.7 75.1 139.5

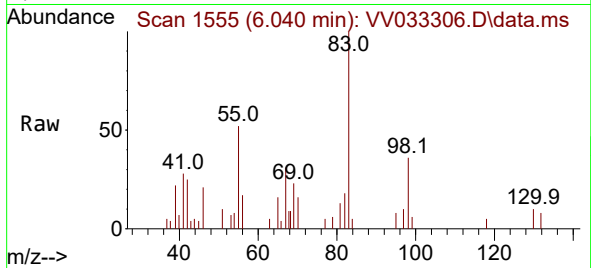
130 112.8 79.3 147.3





#35
Methylcyclohexane
Concen: 0.304 ug/L
RT: 6.040 min Scan# 1558
Delta R.T. -0.010 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
Client Sample Id :
E0Y78



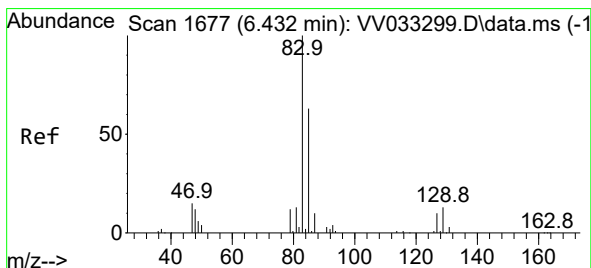
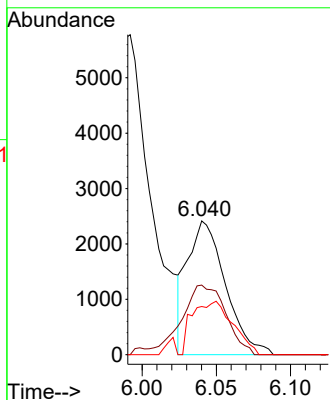
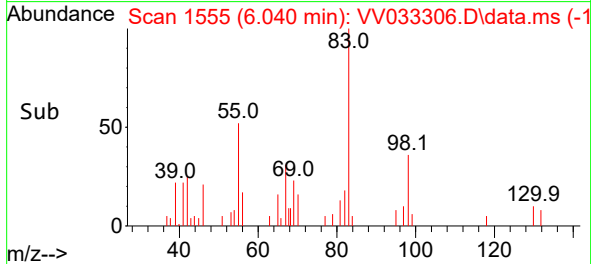
Tgt Ion: 83 Resp: 4319
Ion Ratio Lower Upper
83 100
55 60.7 50.7 76.1
98 42.7 42.4 63.6

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

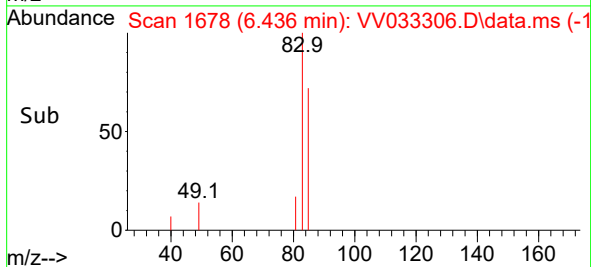
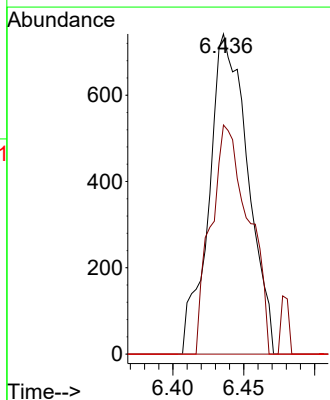
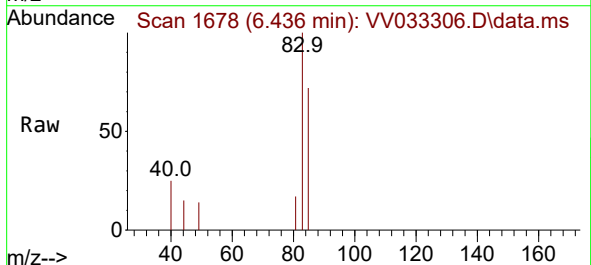
Supervised By :Mahesh
Dadodias
12/16/2023

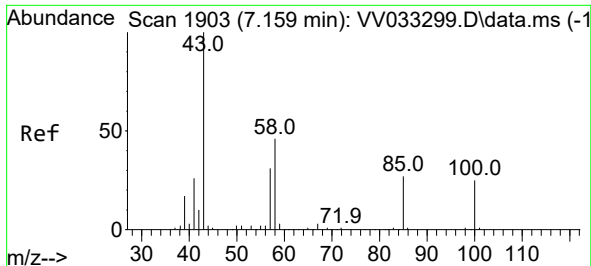
12/18/2023



#38
Bromodichloromethane
Concen: 0.134 ug/L
RT: 6.436 min Scan# 1678
Delta R.T. 0.003 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Tgt Ion: 83 Resp: 1421
Ion Ratio Lower Upper
83 100
85 71.6 46.6 86.6
127 0.0 8.6 13.0#





#40

4-Methyl-2-pentanone

Concen: 15.748 ug/L

RT: 7.175 min Scan# 1903

Delta R.T. 0.016 min

Lab File: VV033306.D

Acq: 14 Dec 2023 03:31

Instrument :

MSVOA_V

ClientSampleId :

EOY78

Tgt Ion: 43	Resp: 3682
Ion Ratio	Lower Upper
43 100	
58 43.6	36.2 54.2
100 23.5	18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Semsettin

Yesilyurt

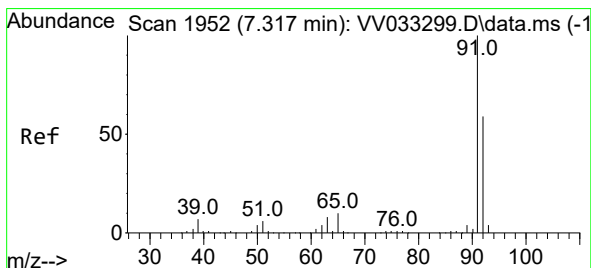
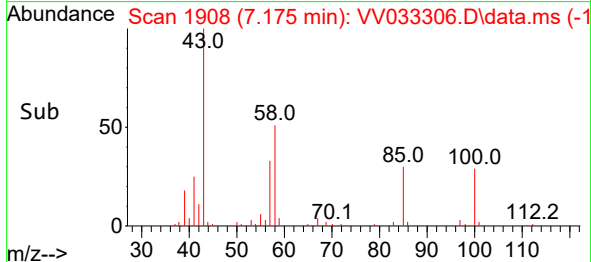
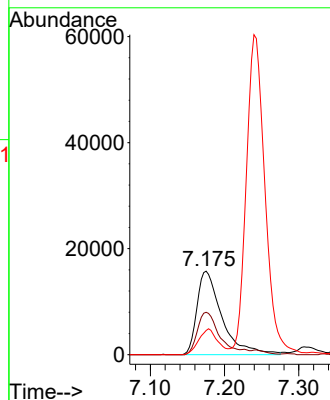
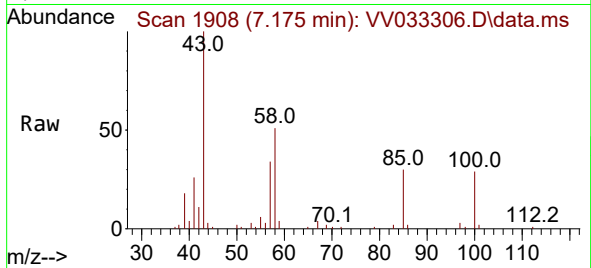
12/16/2023

Supervised By :Mahesh

Supervised By :Mahesh

12/16/2023

12/18/2023



#42

Toluene

Concen: 14.738 ug/L

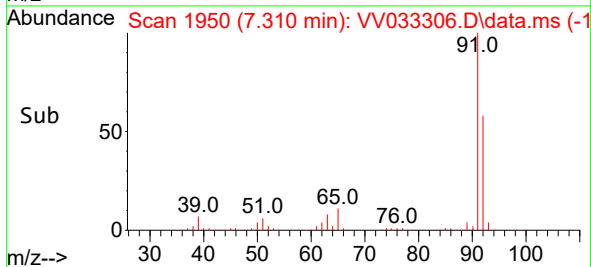
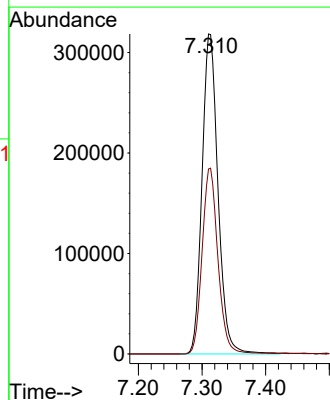
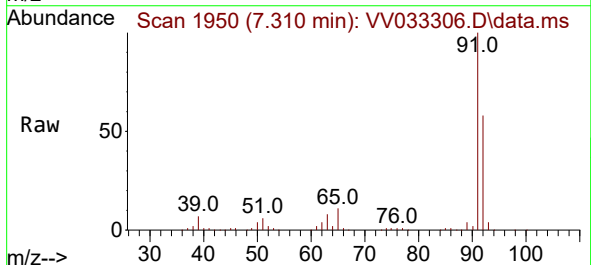
RT: 7.310 min Scan# 1950

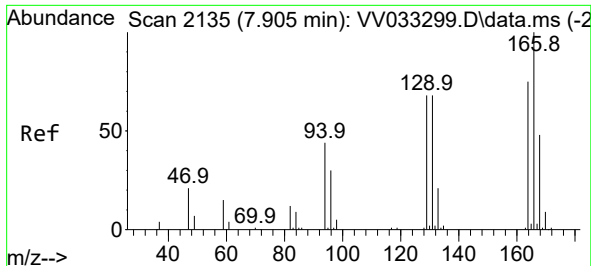
Delta R.T. -0.006 min

Lab File: VV033306.D

Acq: 14 Dec 2023 03:31

Tgt Ion: 91	Resp: 554657
Ion Ratio	Lower Upper
91 100	
92 57.8	40.2 74.6





#47

Tetrachloroethene

Concen: 0.124 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VV033306.D

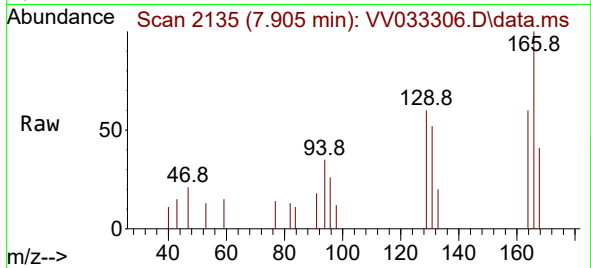
Acq: 14 Dec 2023 03:31

Instrument :

MSVOA_V

ClientSampleId :

E0Y78



Tgt Ion:164 Resp: 112

Ion Ratio Lower Upper

164 100

129 100.9 62.6 116.3

131 87.5 62.6 116.3

166 167.1 90.2 167.6

Manual Integrations

APPROVED

Reviewed By :Semsettin

Yesilyurt

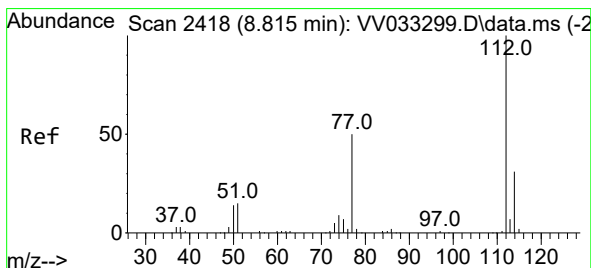
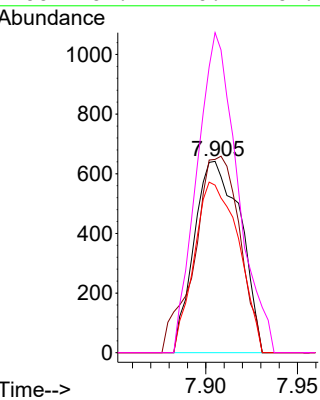
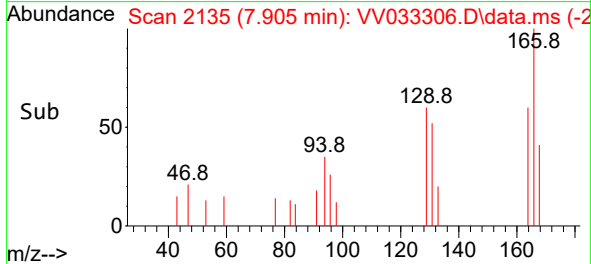
12/16/2023

Supervised By :Mahesh

Supervised By :Mahesh

12/16/2023

12/18/2023



#51

Chlorobenzene

Concen: 0.248 ug/L

RT: 8.818 min Scan# 2419

Delta R.T. 0.003 min

Lab File: VV033306.D

Acq: 14 Dec 2023 03:31

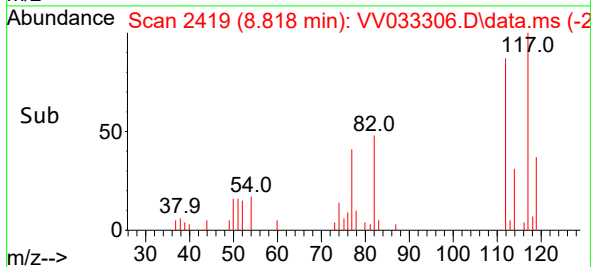
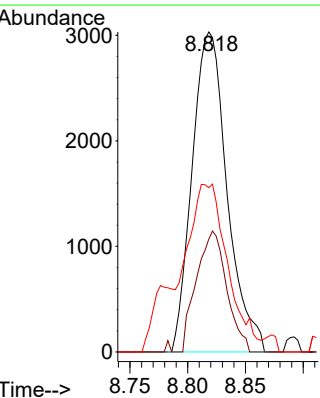
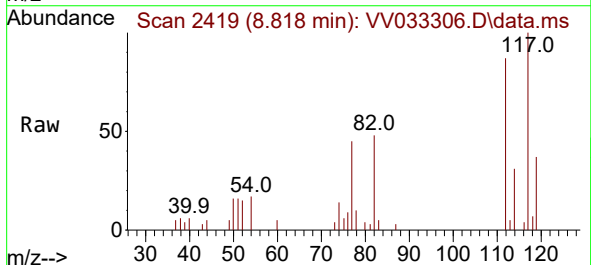
Tgt Ion:112 Resp: 6395

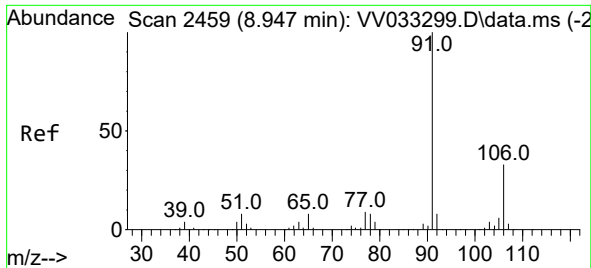
Ion Ratio Lower Upper

112 100

114 35.3 22.8 42.4

77 51.4 41.3 61.9





#52
Ethylbenzene
Concen: 2.644 ug/L
RT: 8.947 min Scan# 2459
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

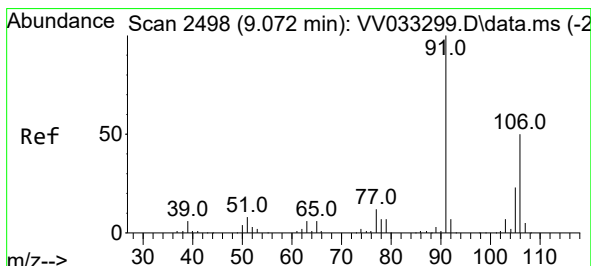
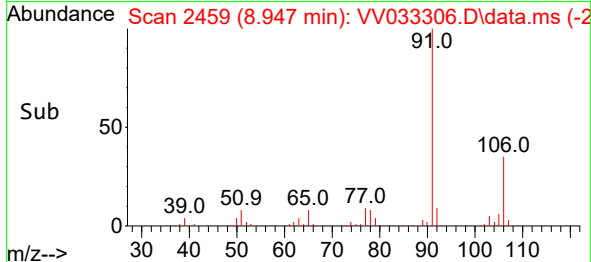
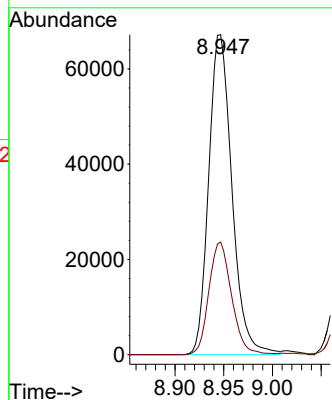
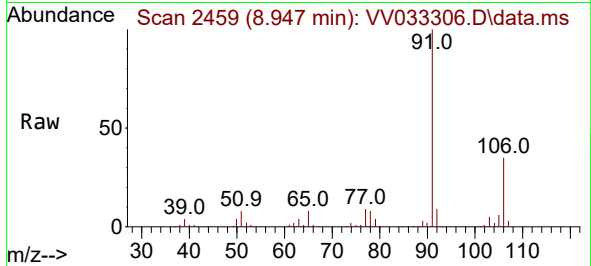
Instrument :
MSVOA_V
Client Sample Id :
E0Y78

Tgt Ion: 91 Resp: 111474
Ion Ratio Lower Upper
91 100
106 35.2 22.7 42.3

Manual Integrations
APPROVED

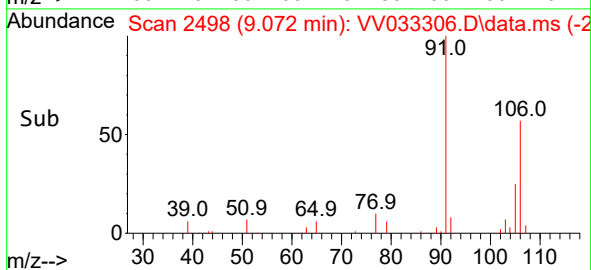
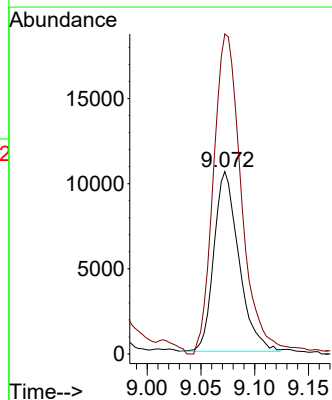
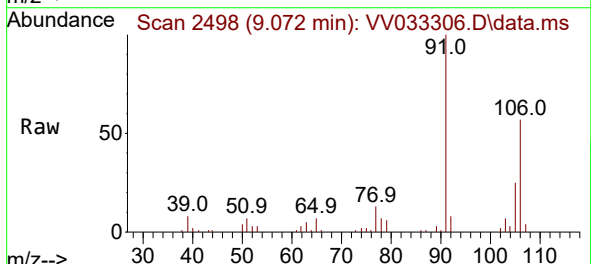
Reviewed By :Semsettin
Yesilyurt
12/16/2023

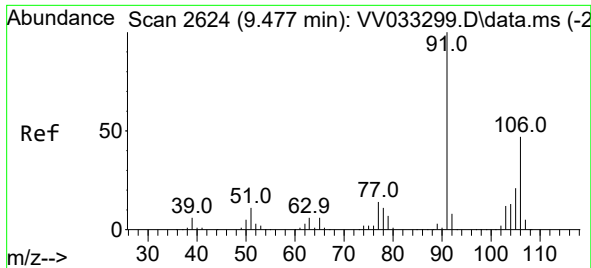
Supervised By :Mahesh
Dadodias
12/18/2023



#53
m,p-Xylene
Concen: 0.983 ug/L
RT: 9.072 min Scan# 2498
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Tgt Ion:106 Resp: 17062
Ion Ratio Lower Upper
106 100
91 175.5 136.8 254.0





#54
o-Xylene
Concen: 0.501 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
ClientSampleId :
E0Y78

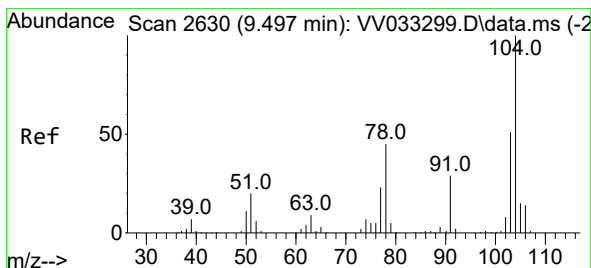
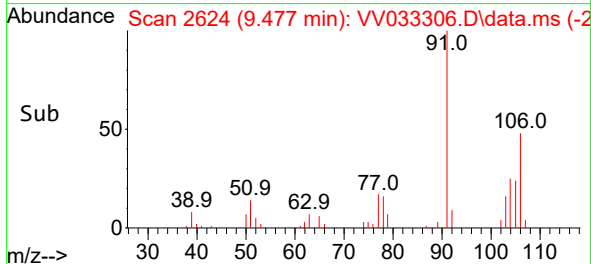
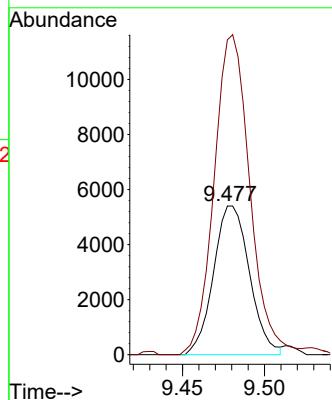
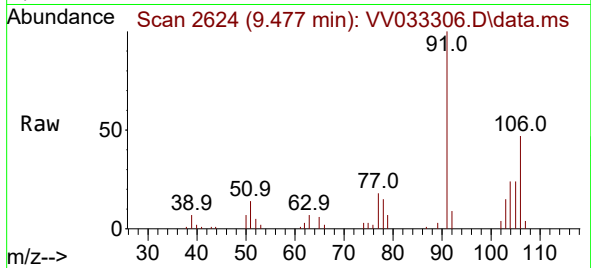
Tgt Ion:106 Resp: 8238
Ion Ratio Lower Upper
106 100
91 211.9 149.9 278.5

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

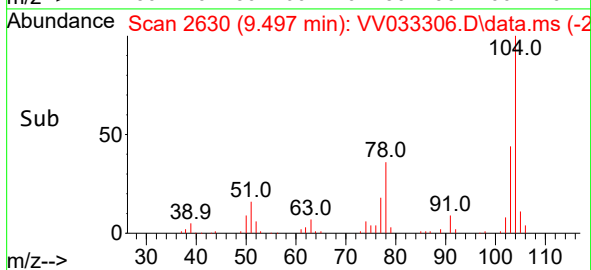
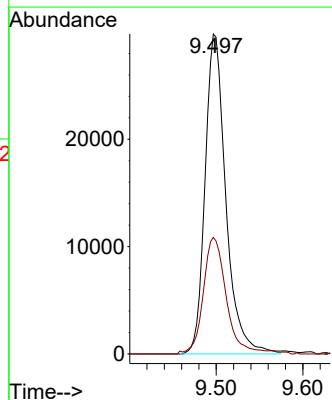
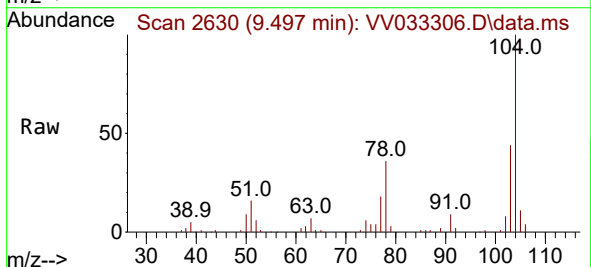
Supervised By :Mahesh
Dadabasa
12/18/2023

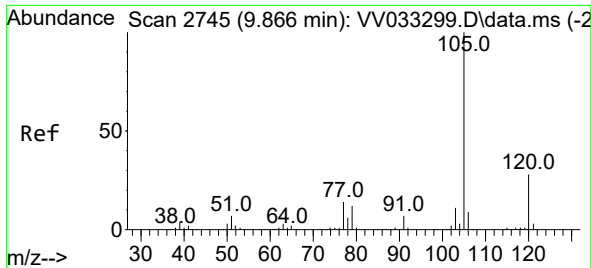
12/18/2023



#55
Styrene
Concen: 1.844 ug/L
RT: 9.497 min Scan# 2630
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Tgt Ion:104 Resp: 49713
Ion Ratio Lower Upper
104 100
78 36.5 29.9 55.5





#60
Isopropylbenzene
Concen: 0.451 ug/L
RT: 9.866 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
ClientSampleId :
E0Y78

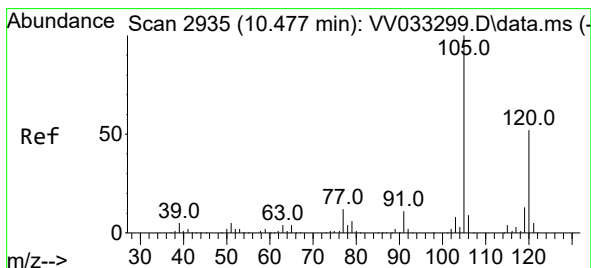
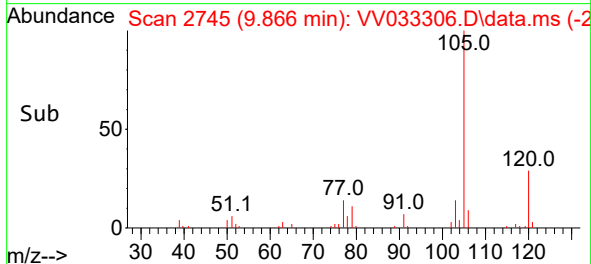
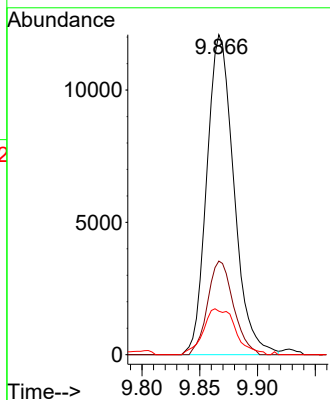
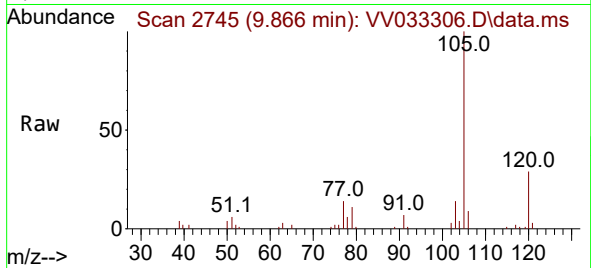
Tgt Ion:105 Resp: 1972
Ion Ratio Lower Upper
105 100
120 27.9 22.2 33.4
77 17.0 11.6 17.4

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

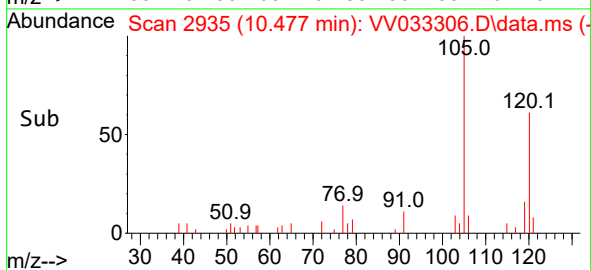
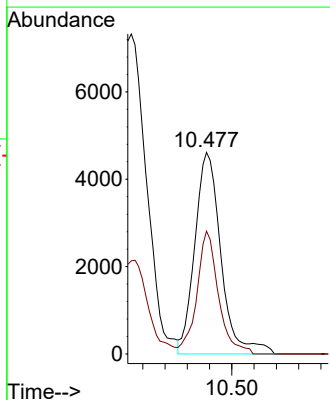
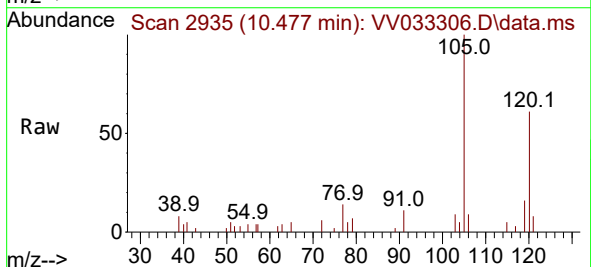
Supervised By :Mahesh
Dadodias
12/16/2023

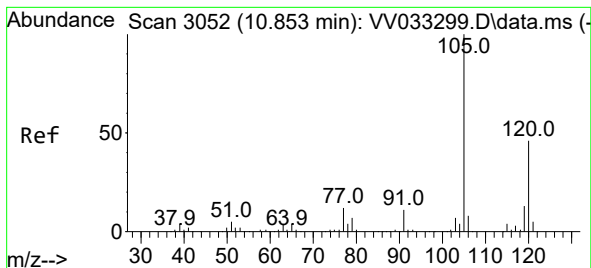
12/18/2023



#62
1,3,5-Trimethylbenzene
Concen: 0.210 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Tgt Ion:105 Resp: 7503
Ion Ratio Lower Upper
105 100
120 50.3 41.7 62.5





#63
1,2,4-Trimethylbenzene
Concen: 1.395 ug/L
RT: 10.854 min Scan# 3052
Delta R.T. 0.000 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

Instrument :
MSVOA_V
Client Sample Id :
E0Y78

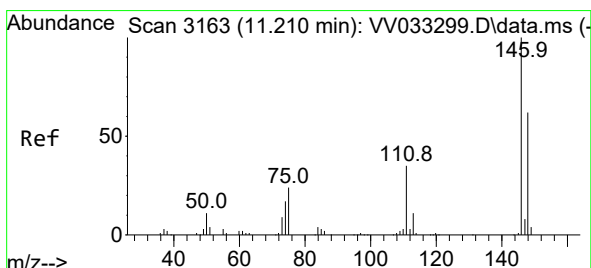
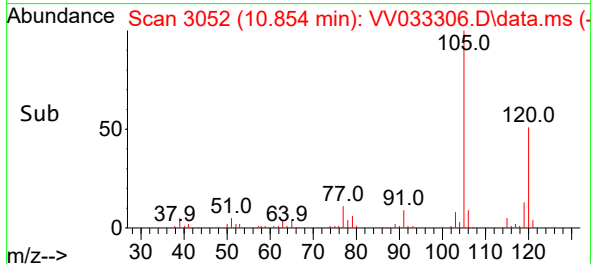
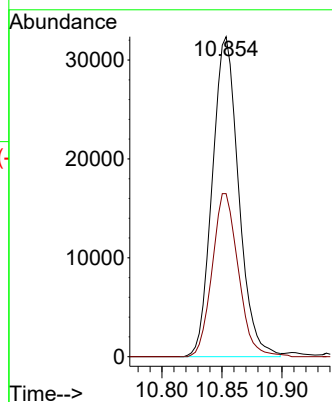
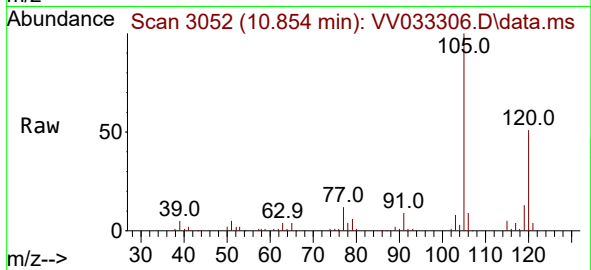
Tgt Ion:105 Resp: 49394
Ion Ratio Lower Upper
105 100
120 50.6 38.1 57.1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
12/16/2023

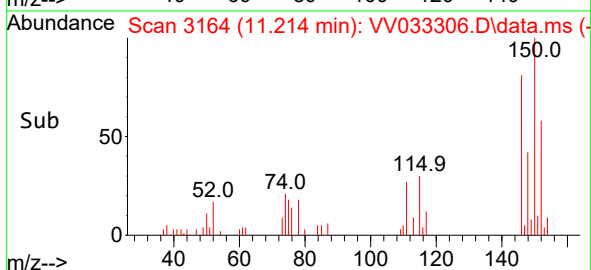
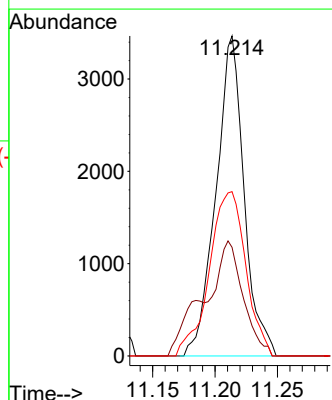
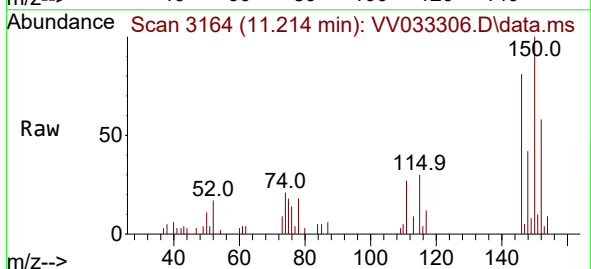
Sampled By :Mahesh
Dated By :Mahesh
Date 12/16/2023

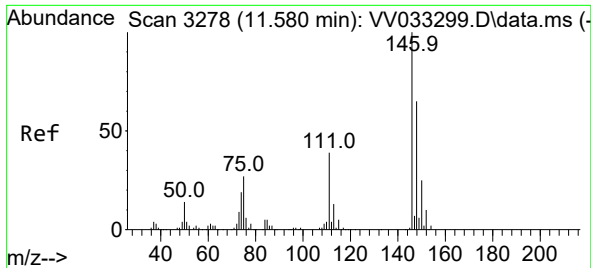
12/18/2023



#65
1,4-Dichlorobenzene
Concen: 0.246 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV033306.D
Acq: 14 Dec 2023 03:31

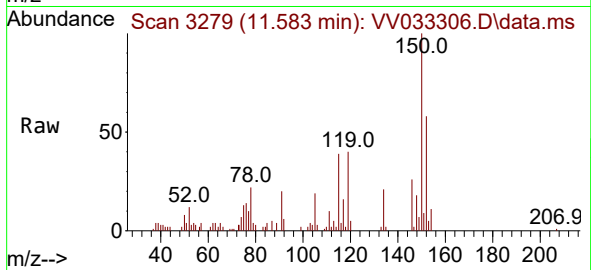
Tgt Ion:146 Resp: 5446
Ion Ratio Lower Upper
146 100
111 33.9 25.6 47.4
148 51.4 44.7 82.9





#67
 1,2-Dichlorobenzene
 Concen: 0.199 ug/L
 RT: 11.583 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VV033306.D
 Acq: 14 Dec 2023 03:31

Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y78



Tgt Ion:	146	Resp:	381
Ion	Ratio	Lower	Upper
146	100		
111	36.5	31.0	46.4
148	66.5	52.6	79.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt
 12/16/2023

Supervised By :Mahesh
 Dated By :Mahesh
 Date 12/16/2023

12/18/2023

