

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121423\
 Data File : VW033368.D
 Acq On : 15 Dec 2023 04:20
 Operator : SY/MD
 Sample : 05802-18
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F7B31

Quant Time: Dec 15 06:14:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 08 21:51:12 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023
 Supervised By :Mahesh Dadoda 12/16/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	173788	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	177857	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.184	152	121074	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	58370	56.184	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 112.360%			
7) Chloroethane-d5	1.532	69	28207	38.967	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 77.940%			
11) 1,1-Dichloroethene-d2	2.059	65	15972	40.413	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 80.820%			
21) 2-Butanone-d5	3.815	46	59909	116.102	ug/L	0.04
Spiked Amount 100.000	Range 40 - 130		Recovery = 116.100%			
24) Chloroform-d	4.249	84	109695	49.754	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 99.500%			
26) 1,2-Dichloroethane-d4	4.940	65	76041	55.474	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 110.940%			
32) Benzene-d6	4.960	84	200709	48.251	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 96.500%			
36) 1,2-Dichloropropane-d6	5.989	67	43486	38.881	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 77.760%			
41) Toluene-d8	7.243	98	195608	49.295	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.600%			
43) trans-1,3-Dichloroprop...	7.551	79	32453	45.887	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 91.780%			
47) 2-Hexanone-d5	8.024	63	40811	90.829	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 90.830%			
56) 1,1,2,2-Tetrachloroeth...	10.152	84	78162	49.161	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 98.320%			
66) 1,2-Dichlorobenzene-d4	11.561	152	118933m	55.210	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 110.420%			
Target Compounds						Qvalue
5) Vinyl chloride	1.281	62	2522604	2099.406	ug/L	98
12) 1,1-Dichloroethene	2.069	96	41467	47.593	ug/L	93
14) Carbon disulfide	2.249	76	3791	1.213	ug/L #	91
17) trans-1,2-Dichloroethene	2.696	96	74527	65.148	ug/L	88
18) Methyl tert-butyl Ether	2.703	73	22814	6.565	ug/L	95
19) 1,1-Dichloroethane	3.114	63	48116	25.413	ug/L	97
20) cis-1,2-Dichloroethene	3.815	96	22209418m	18297.021	ug/L	
27) 1,2-Dichloroethane	5.046	62	19738	11.471	ug/L	95
29) Cyclohexane	4.583	56	4620	2.812	ug/L #	69
33) Benzene	5.008	78	508594	112.844	ug/L	100
34) Trichloroethene	5.837	95	9317	6.919	ug/L	84
42) Toluene	7.313	91	768693	151.353	ug/L	100
46) Tetrachloroethene	7.905	164	27127	23.436	ug/L	94
51) Chlorobenzene	8.812	112	1604283	449.190	ug/L	96
52) Ethylbenzene	8.950	91	8137	1.392	ug/L	100
53) m,p-Xylene	9.075	106	10133	4.377	ug/L	87
54) o-Xylene	9.480	106	8398	3.676	ug/L	88
63) 1,2,4-Trimethylbenzene	10.853	105	27342	4.668	ug/L	97
64) 1,3-Dichlorobenzene	11.117	146	1596416	428.041	ug/L	98

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 Quant Title : VOC Analysis
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.210	146	2618542	675.893	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	2014274	550.900	ug/L	98

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

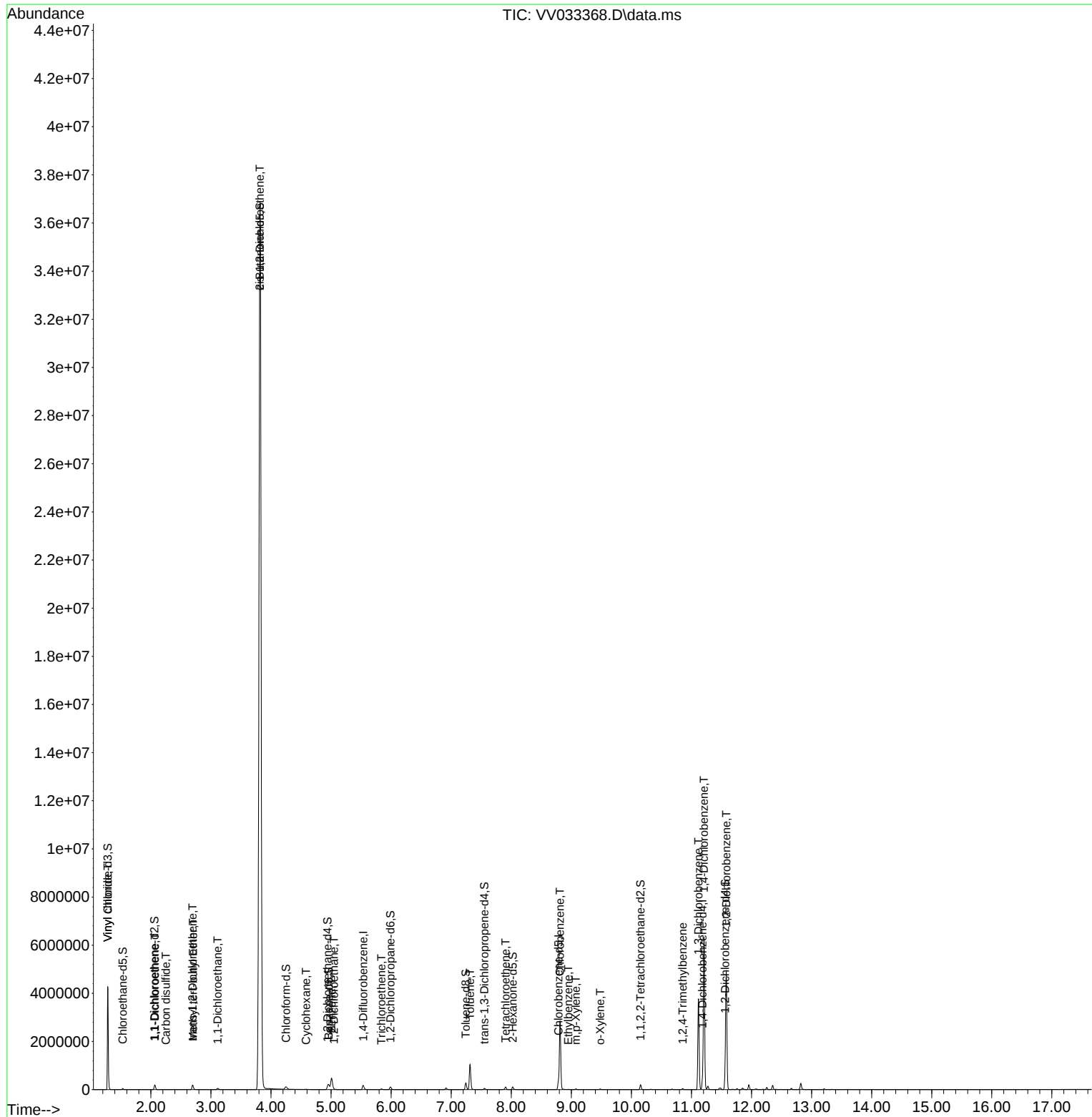
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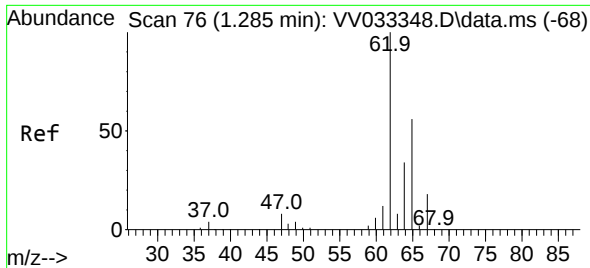
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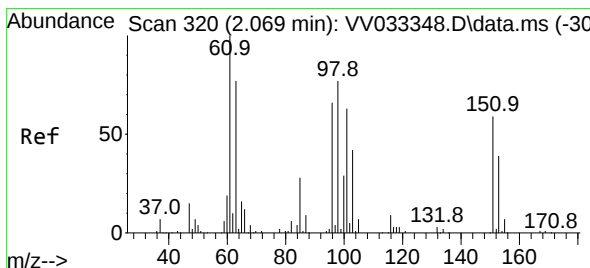
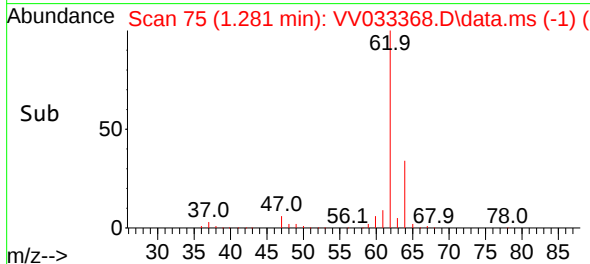
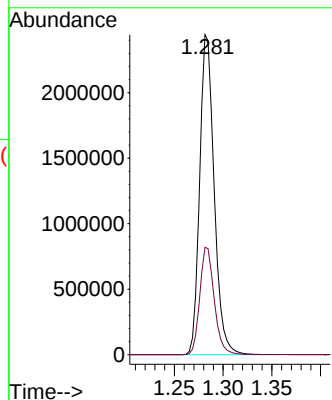
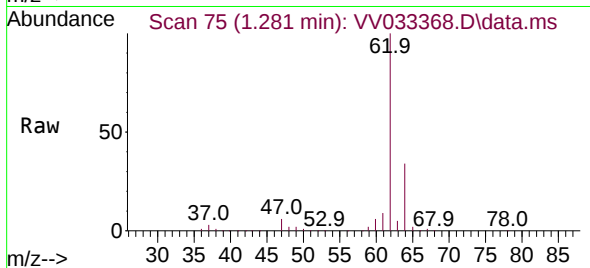
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 Vinyl chloride
 Concen: 2099.406 ug/L
 RT: 1.281 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VV033368.D
 Acq: 15 Dec 2023 04:20

Instrument :
 MSVOA_V
 ClientSampleId :
 F7B31

Tgt Ion: 62 Resp: 2522604
 Ion Ratio Lower Upper
 62 100
 64 33.5 24.2 45.0

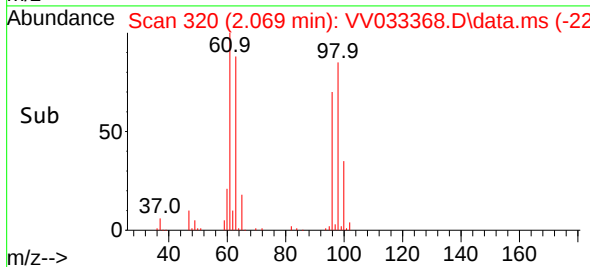
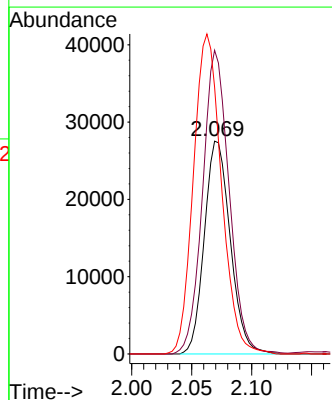
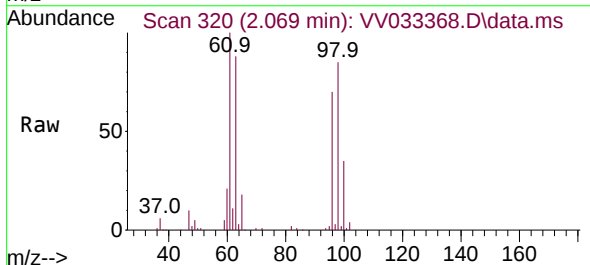
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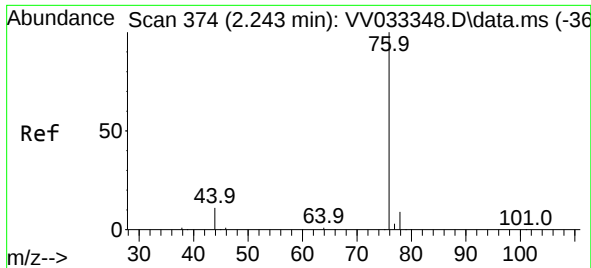
Reviewed By :Semsettin Yesilyurt 12/16/2023
 Supervised By :Mahesh Dadoda 12/16/2023



#12
 1,1-Dichloroethene
 Concen: 47.593 ug/L
 RT: 2.069 min Scan# 320
 Delta R.T. -0.000 min
 Lab File: VV033368.D
 Acq: 15 Dec 2023 04:20

Tgt Ion: 96 Resp: 41467
 Ion Ratio Lower Upper
 96 100
 61 142.7 109.1 202.7
 63 125.4 85.3 158.3





#14

Carbon disulfide

Concen: 1.213 ug/L

RT: 2.249 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

ClientSampleId :

F7B31

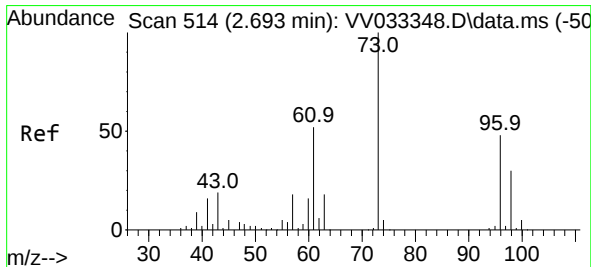
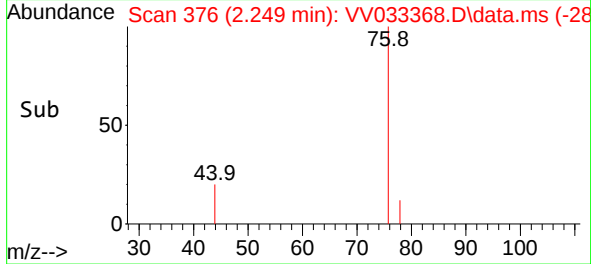
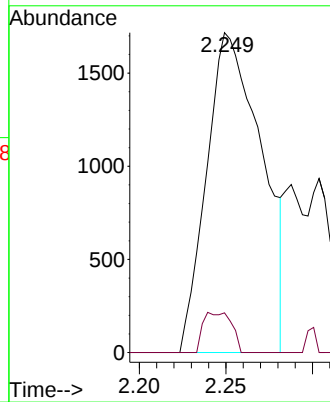
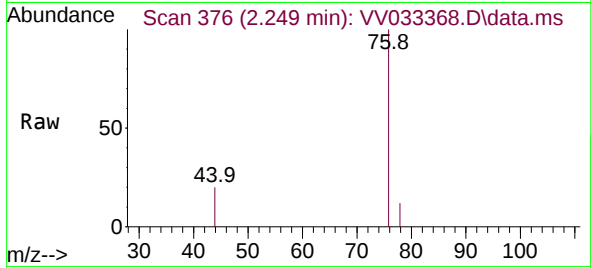
Tgt Ion: 76 Resp: 379

Ion	Ratio	Lower	Upper
76	100		
78	12.4	7.4	11.0

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#17

trans-1,2-Dichloroethene

Concen: 65.148 ug/L

RT: 2.696 min Scan# 515

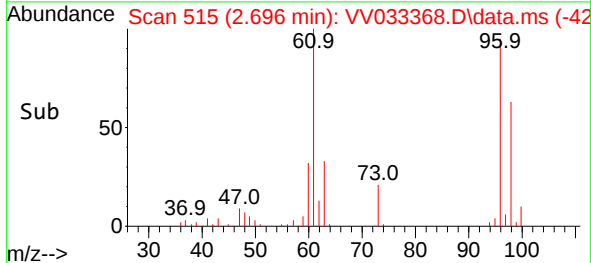
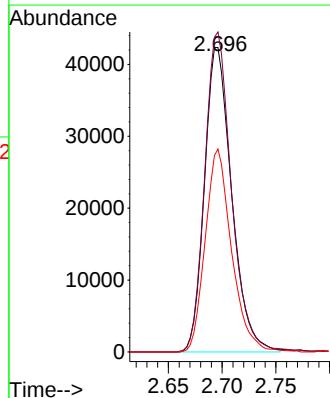
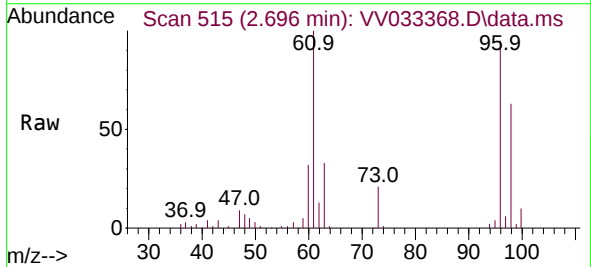
Delta R.T. 0.003 min

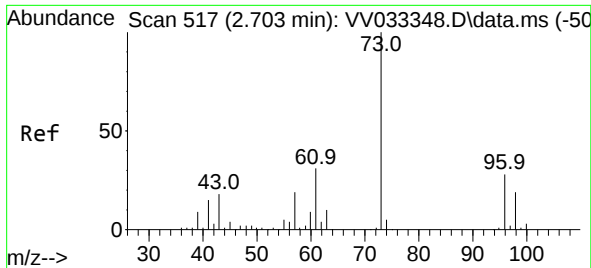
Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Tgt Ion: 96 Resp: 74527

Ion	Ratio	Lower	Upper
96	100		
61	105.1	86.5	160.6
98	66.6	45.1	83.7





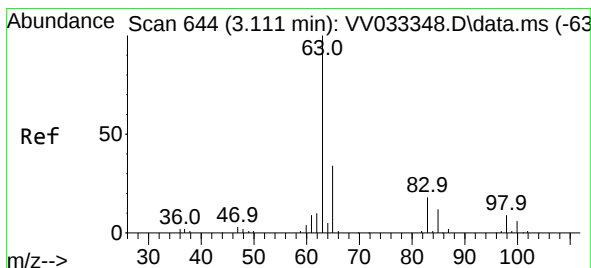
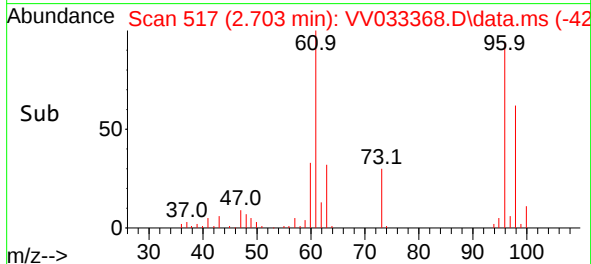
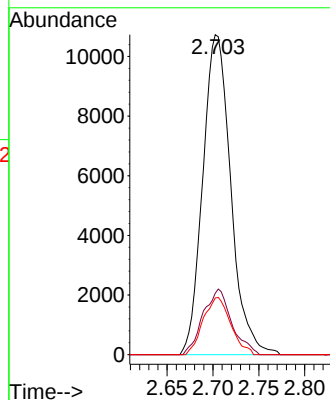
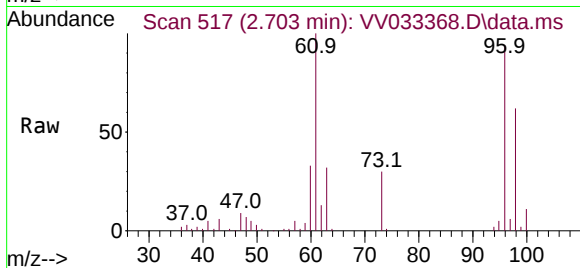
#18
Methyl tert-butyl Ether
Concen: 6.565 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
MSVOA_V
ClientSampleId :
F7B31

Tgt Ion: 73 Resp: 22814
Ion Ratio Lower Upper
73 100
43 21.0 15.4 23.2
57 17.6 16.1 24.1

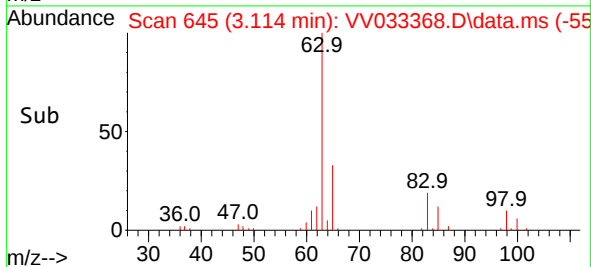
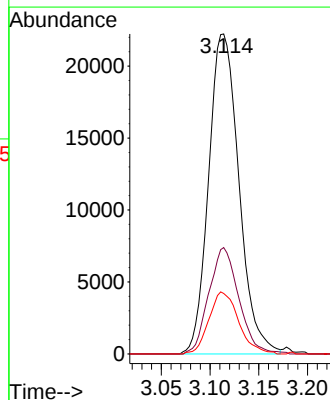
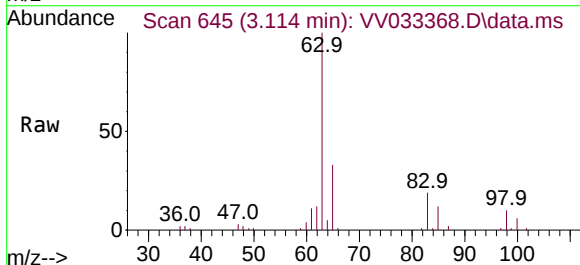
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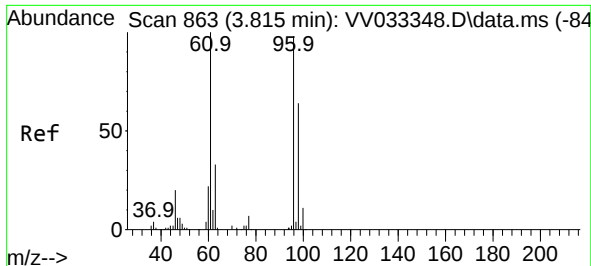
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#19
1,1-Dichloroethane
Concen: 25.413 ug/L
RT: 3.114 min Scan# 645
Delta R.T. 0.006 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion: 63 Resp: 48116
Ion Ratio Lower Upper
63 100
65 33.3 23.0 42.6
83 18.9 11.4 21.2





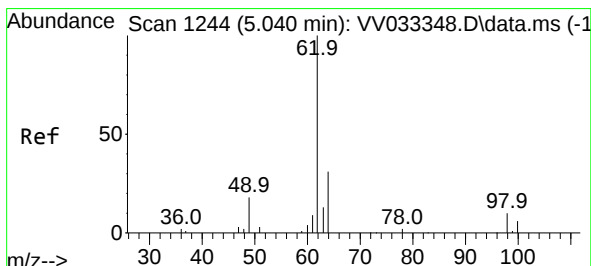
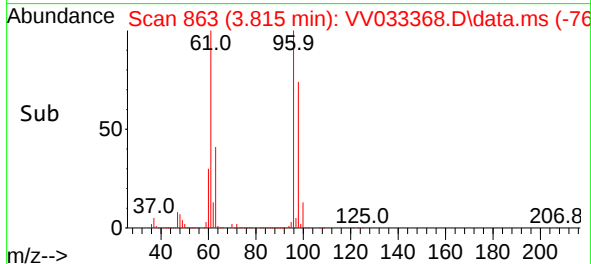
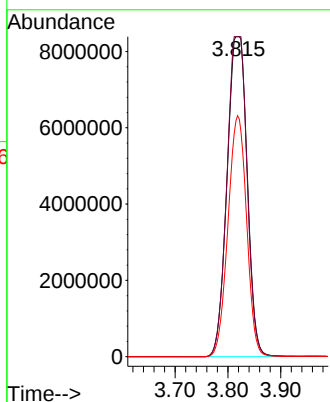
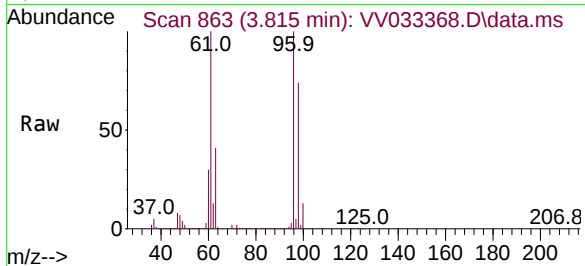
#20
cis-1,2-Dichloroethene
Concen: 18297.021 ug/L m
RT: 3.815 min Scan# 863
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
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Tgt Ion: 96 Resp:22209418
Ion Ratio Lower Upper
96 100
61 100.0 79.1 146.9
98 73.7 45.1 83.7

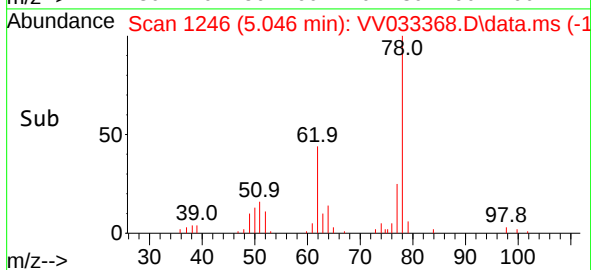
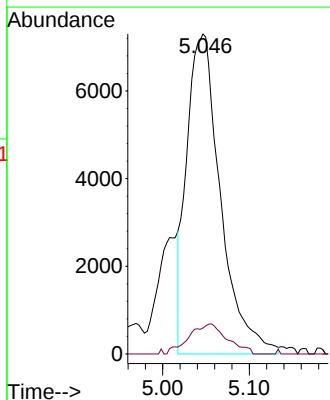
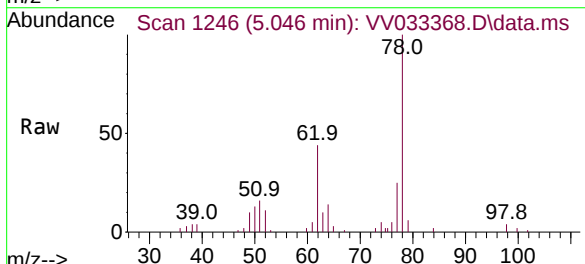
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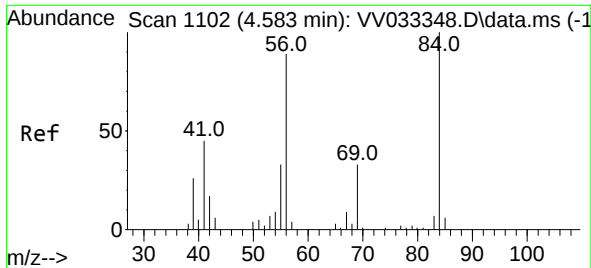
Reviewed By :Semsettin Yesilyurt 12/16/2023
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#27
1,2-Dichloroethane
Concen: 11.471 ug/L
RT: 5.046 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

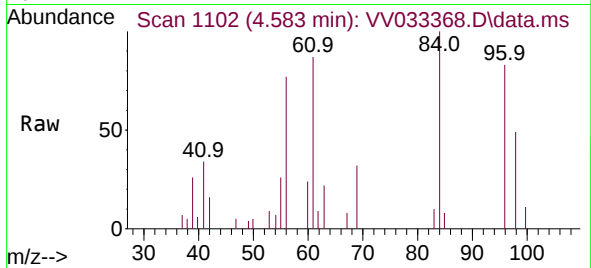
Tgt Ion: 62 Resp: 19738
Ion Ratio Lower Upper
62 100
98 8.1 7.8 11.8





#29
Cyclohexane
Concen: 2.812 ug/L
RT: 4.583 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

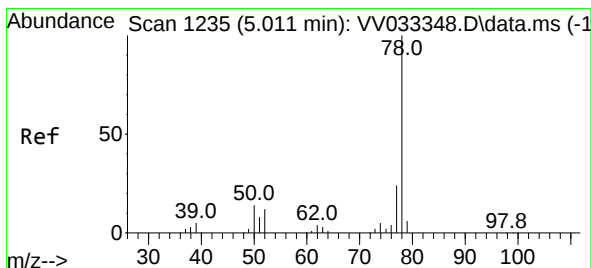
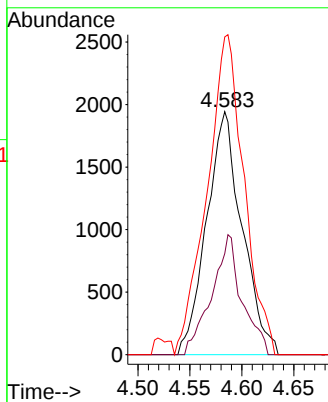
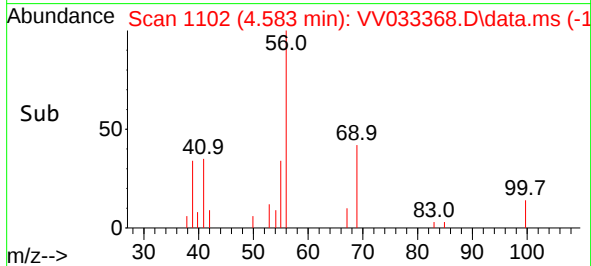
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Tgt Ion: 56 Resp: 4620
Ion Ratio Lower Upper
56 100
69 41.9 26.9 40.3
84 136.9 80.6 121.0

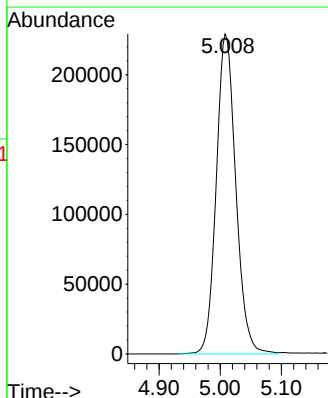
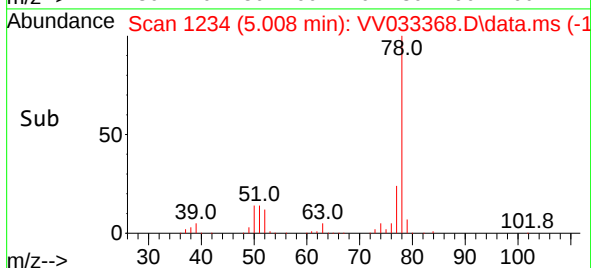
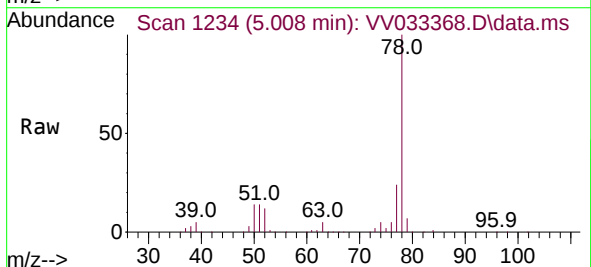
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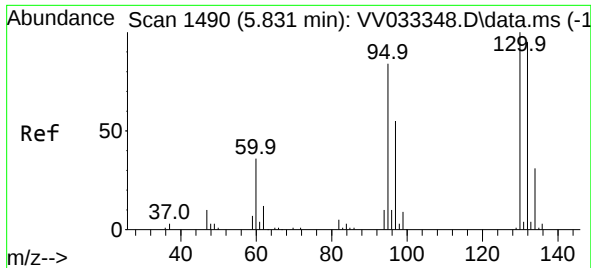
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#33
Benzene
Concen: 112.844 ug/L
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

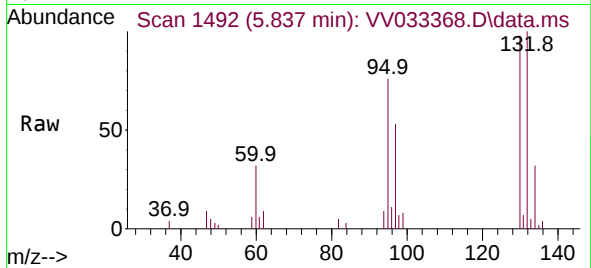
Tgt Ion: 78 Resp: 508594





#34
Trichloroethene
Concen: 6.919 ug/L
RT: 5.837 min Scan# 1490
Delta R.T. 0.006 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

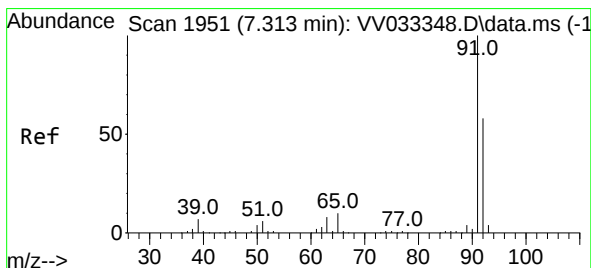
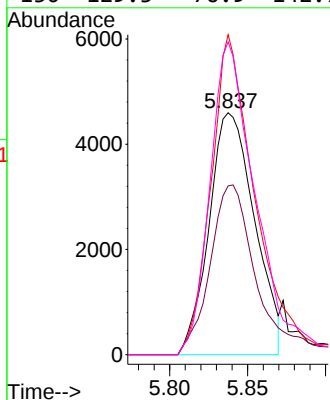
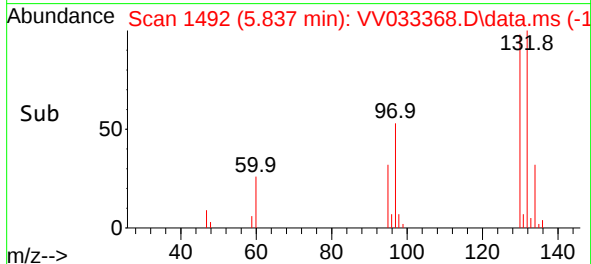
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Tgt Ion: 95 Resp: 931
Ion Ratio Lower Upper
95 100
97 69.8 45.8 85.0
132 132.3 77.4 143.8
130 129.3 76.9 142.7

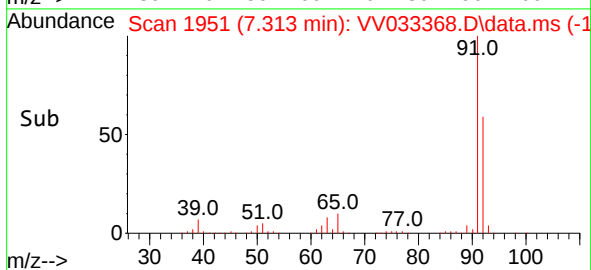
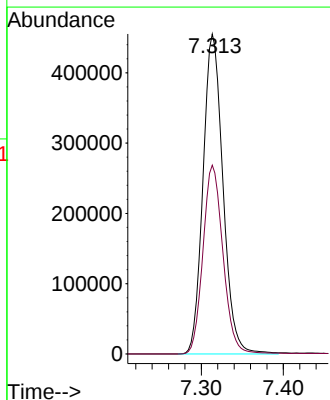
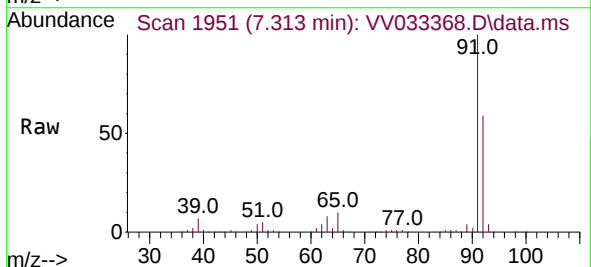
Manual Integrations
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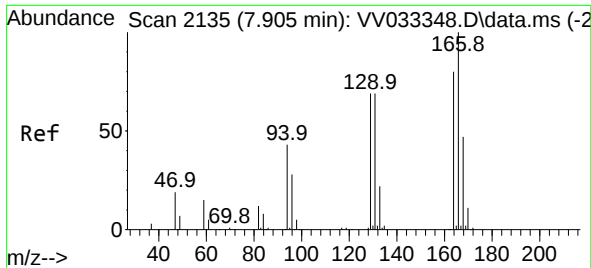
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#42
Toluene
Concen: 151.353 ug/L
RT: 7.313 min Scan# 1951
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

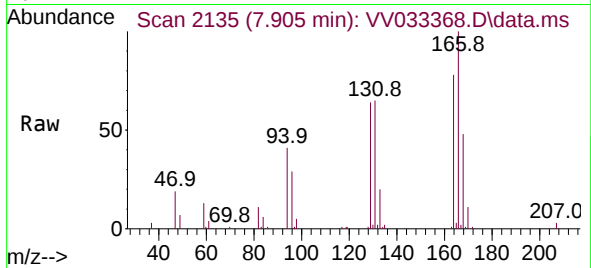
Tgt Ion: 91 Resp: 768693
Ion Ratio Lower Upper
91 100
92 59.0 41.3 76.7





#46
Tetrachloroethene
Concen: 23.436 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
MSVOA_V
ClientSampleId :
F7B31

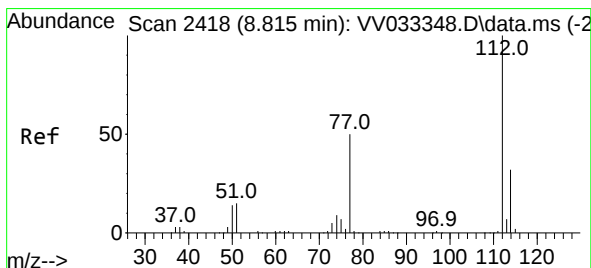
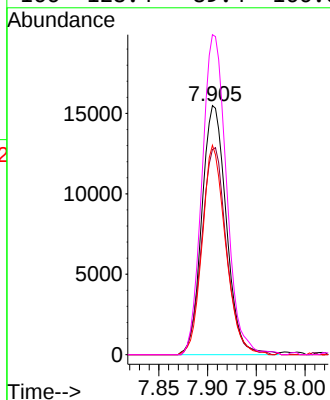
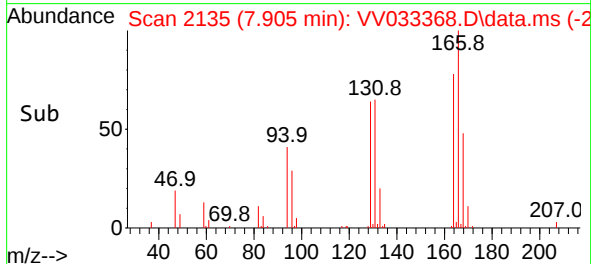


Tgt Ion:164 Resp: 2712

Ion	Ratio	Lower	Upper
164	100		
129	82.3	65.6	121.8
131	84.1	64.7	120.1
166	128.4	89.4	166.0

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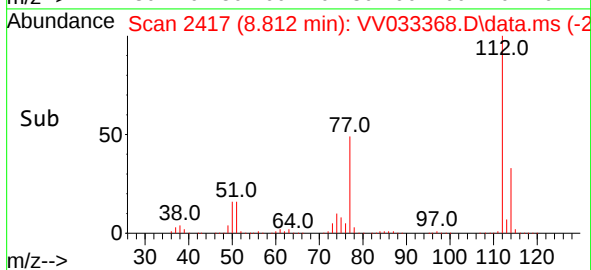
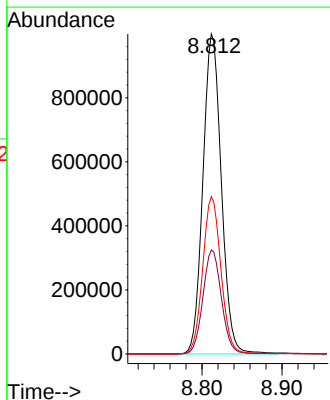
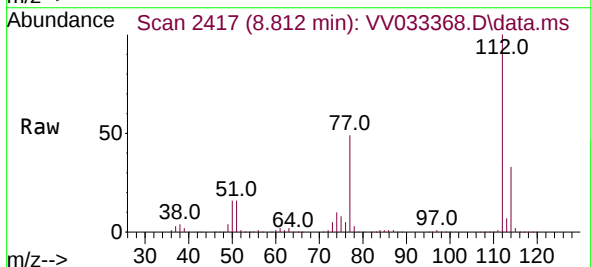
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023

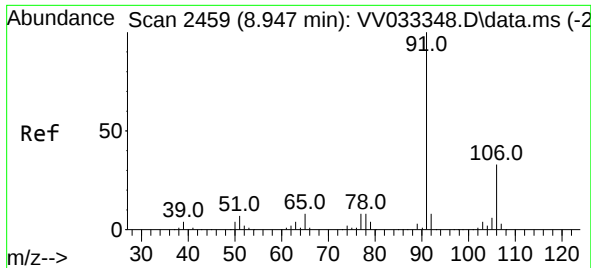


#51
Chlorobenzene
Concen: 449.190 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. -0.000 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion:112 Resp: 1604283

Ion	Ratio	Lower	Upper
112	100		
114	32.5	22.9	42.5
77	49.2	42.6	64.0





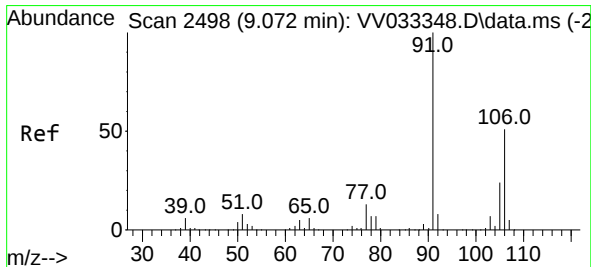
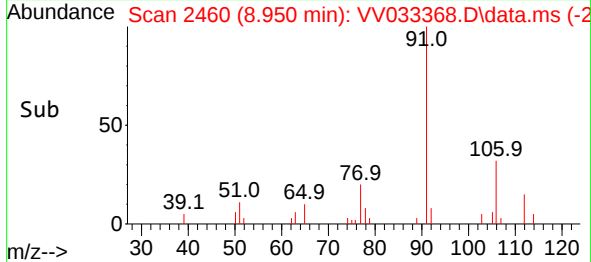
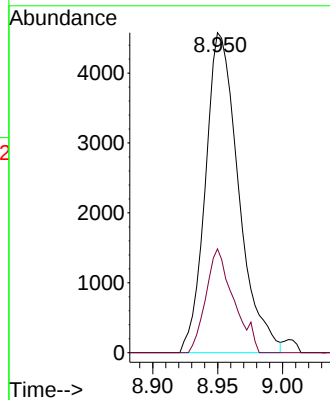
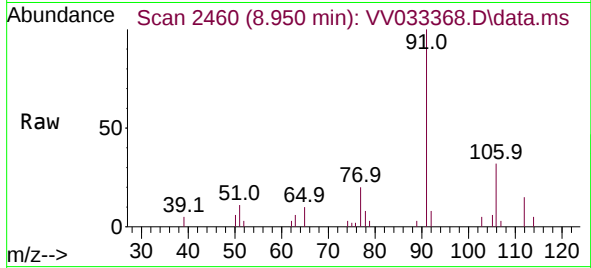
#52
Ethylbenzene
Concen: 1.392 ug/L
RT: 8.950 min Scan# 2459
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
MSVOA_V
ClientSampleId :
F7B31

Tgt Ion: 91 Resp: 813
Ion Ratio Lower Upper
91 100
106 32.4 22.6 42.0

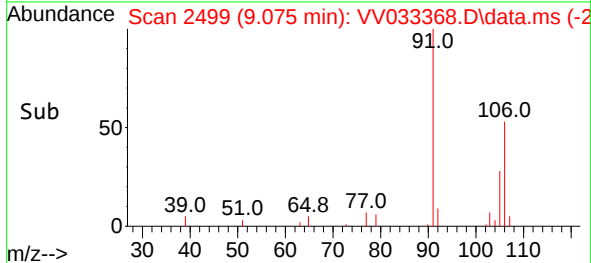
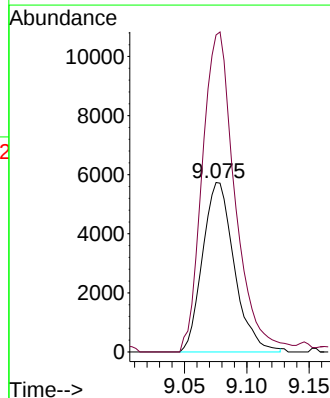
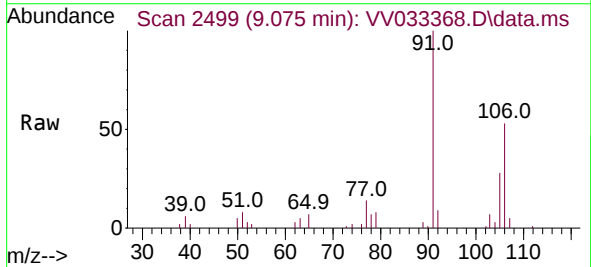
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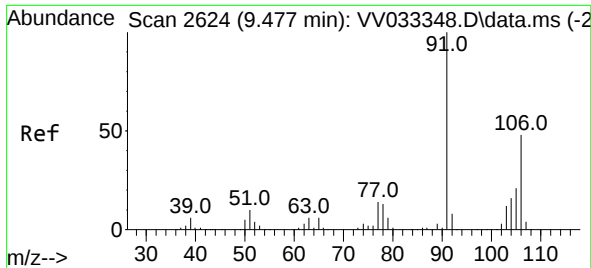
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#53
m,p-Xylene
Concen: 4.377 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion:106 Resp: 10133
Ion Ratio Lower Upper
106 100
91 187.0 145.2 269.6





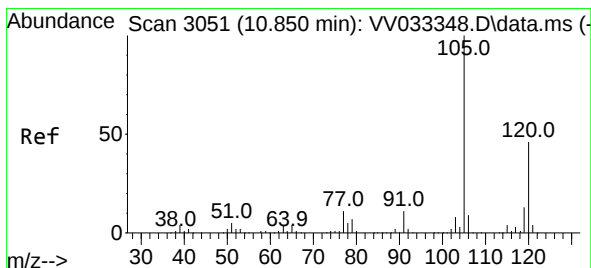
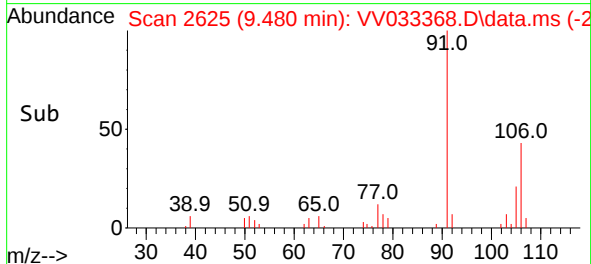
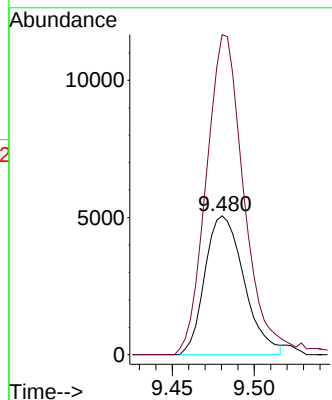
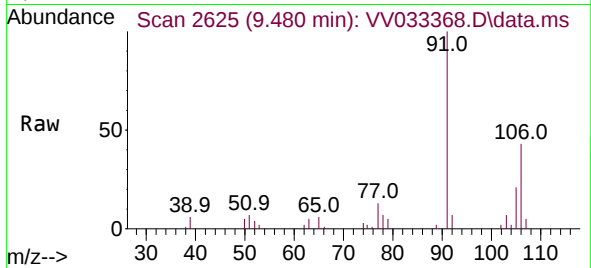
#54
o-Xylene
Concen: 3.676 ug/L
RT: 9.480 min Scan# 20
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Instrument :
MSVOA_V
ClientSampleId :
F7B31

Tgt Ion:106 Resp: 8398
Ion Ratio Lower Upper
106 100
91 230.5 147.8 274.6

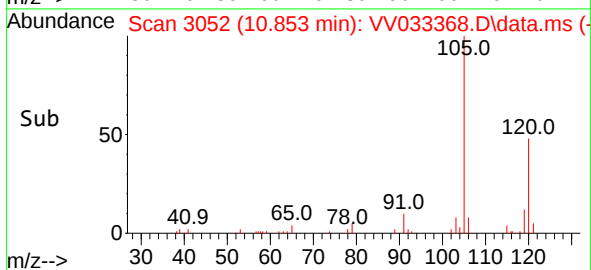
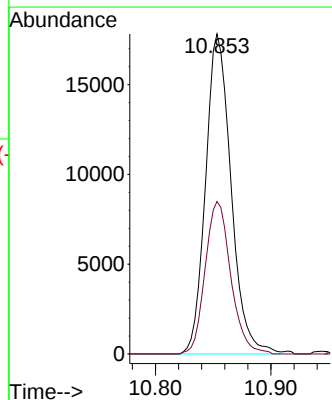
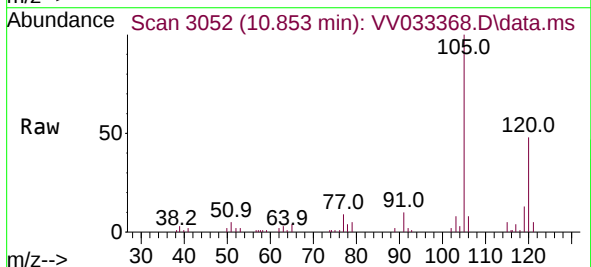
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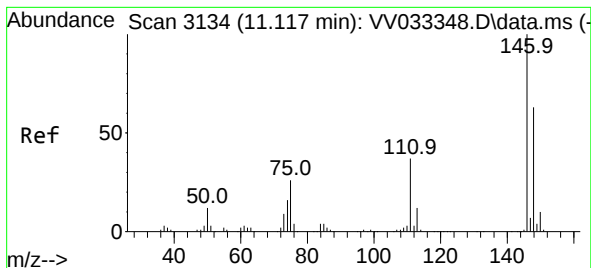
Reviewed By :Semsettin Yesilyurt 12/16/2023
Supervised By :Mahesh Dadoda 12/16/2023



#63
1,2,4-Trimethylbenzene
Concen: 4.668 ug/L
RT: 10.853 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VV033368.D
Acq: 15 Dec 2023 04:20

Tgt Ion:105 Resp: 27342
Ion Ratio Lower Upper
105 100
120 47.7 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 428.041 ug/L

RT: 11.117 min Scan# 3134

Delta R.T. -0.000 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

Instrument :

MSVOA_V

ClientSampleId :

F7B31

Tgt Ion:146 Resp: 1596410

Ion Ratio Lower Upper

146 100

111 36.5 26.2 48.6

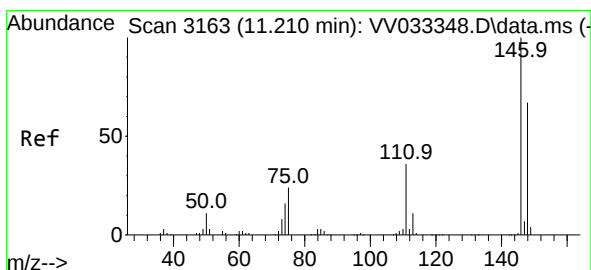
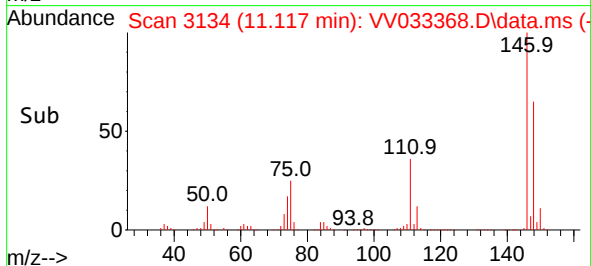
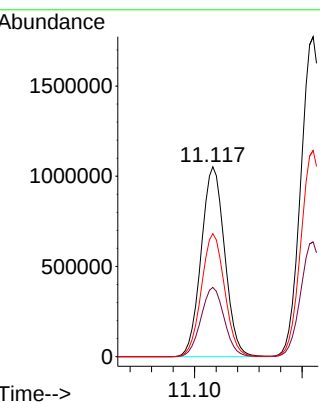
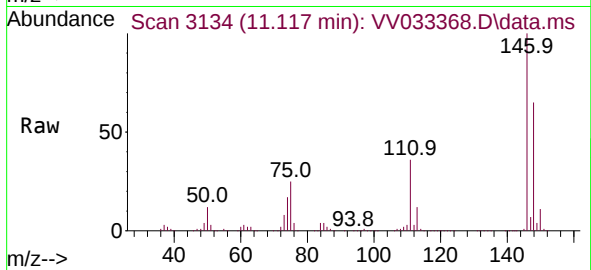
148 64.8 44.5 82.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/16/2023

Supervised By :Mahesh Dadoda 12/16/2023



#65

1,4-Dichlorobenzene

Concen: 675.893 ug/L

RT: 11.210 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VV033368.D

Acq: 15 Dec 2023 04:20

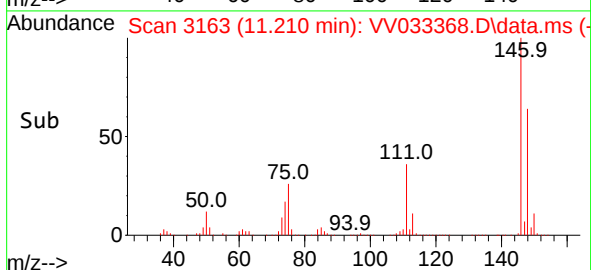
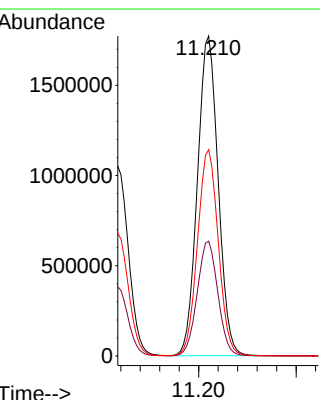
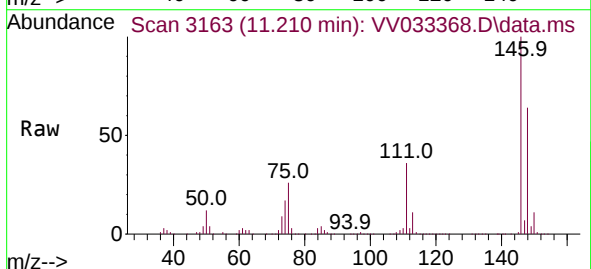
Tgt Ion:146 Resp: 2618542

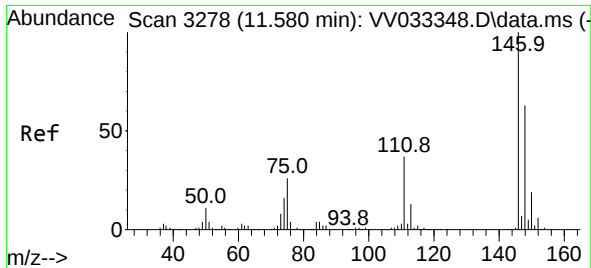
Ion Ratio Lower Upper

146 100

111 35.9 25.9 48.1

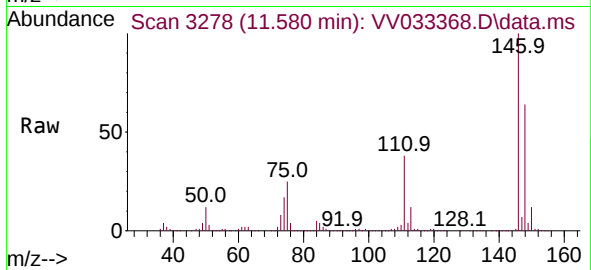
148 64.4 44.9 83.5





#67
 1,2-Dichlorobenzene
 Concen: 550.900 ug/L
 RT: 11.580 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV033368.D
 Acq: 15 Dec 2023 04:20

Instrument :
 MSVOA_V
 ClientSampleId :
 F7B31



Tgt Ion:146 Resp: 2014274
 Ion Ratio Lower Upper
 146 100
 111 38.2 32.4 48.6
 148 64.2 51.8 77.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/16/2023
 Supervised By :Mahesh Dadoda 12/16/2023

