

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091823\
 Data File : VU055370.D
 Acq On : 18 Sep 2023 13:22
 Operator : MD/SY
 Sample : 04398-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BH4K4

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/20/2023
 Supervised By :Semsettin Yesilyurt 09/20/2023

Quant Time: Sep 19 01:15:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091523WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 19 01:12:51 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	193473	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	199932	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	103337	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	26041	2.342	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	46.800%
7) Chloroethane-d5	1.910	69	44414	3.538	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.800%
11) 1,1-Dichloroethene-d2	2.563	65	14703	3.655	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.200%
20) 2-Butanone-d5	0.000	46	0d	0.000	ug/L	
Spiked Amount	50.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	5.061	84	111934	4.507	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.200%
26) 1,2-Dichloroethane-d4	5.701	65	57622	4.598	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.000%
32) Benzene-d6	5.727	84	204630	4.883	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.600%
36) 1,2-Dichloropropane-d6	6.695	67	65895	4.614	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.200%
41) Toluene-d8	7.897	98	170067	4.707	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.200%
43) trans-1,3-Dichloroprop...	8.180	79	13877	2.739	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	54.800%#
46) 2-Hexanone-d5	8.634	63	101835	55.238	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.480%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	62237	5.012	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.200%
66) 1,2-Dichlorobenzene-d4	12.190	152	66498	4.997	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.000%
Target Compounds						
5) Vinyl chloride	1.602	62	120131	6.262	ug/L	98
12) 1,1-Dichloroethene	2.579	96	225932	16.609	ug/L #	82
16) Methylene chloride	3.039	84	7400	0.365	ug/L	87
17) Methyl tert-butyl Ether	3.361	73	9532	0.292	ug/L #	93
18) trans-1,2-Dichloroethene	3.351	96	681762	45.583	ug/L	100
19) 1,1-Dichloroethane	3.872	63	13203	0.454	ug/L	95
22) cis-1,2-Dichloroethene	4.644	96	45223636m	2581.715	ug/L	
25) Chloroform	5.084	83	21937	0.696	ug/L	94
27) 1,2-Dichloroethane	5.798	62	8029	0.411	ug/L #	82
30) Cyclohexane	5.386	56	60725	2.532	ug/L	99
33) Benzene	5.775	78	180428	2.727	ug/L	100
34) Trichloroethene	6.534	95	37149655m	1972.392	ug/L	
35) Methylcyclohexane	6.766	83	32635	1.192	ug/L #	55
42) Toluene	7.971	91	12366	0.171	ug/L	95
45) 1,1,2-Trichloroethane	8.396	97	35932	2.983	ug/L	97
47) Tetrachloroethene	8.553	164	73866	5.722	ug/L	95
51) Chlorobenzene	9.444	112	1250108	26.724	ug/L	99
64) 1,3-Dichlorobenzene	11.743	146	397904	11.447	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	801703	23.599	ug/L	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.209	146	129110	4.143	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	711748	39.164	ug/L	100
72) 1,2,3-Trichlorobenzene	14.325	180	138483	8.802	ug/L	99

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

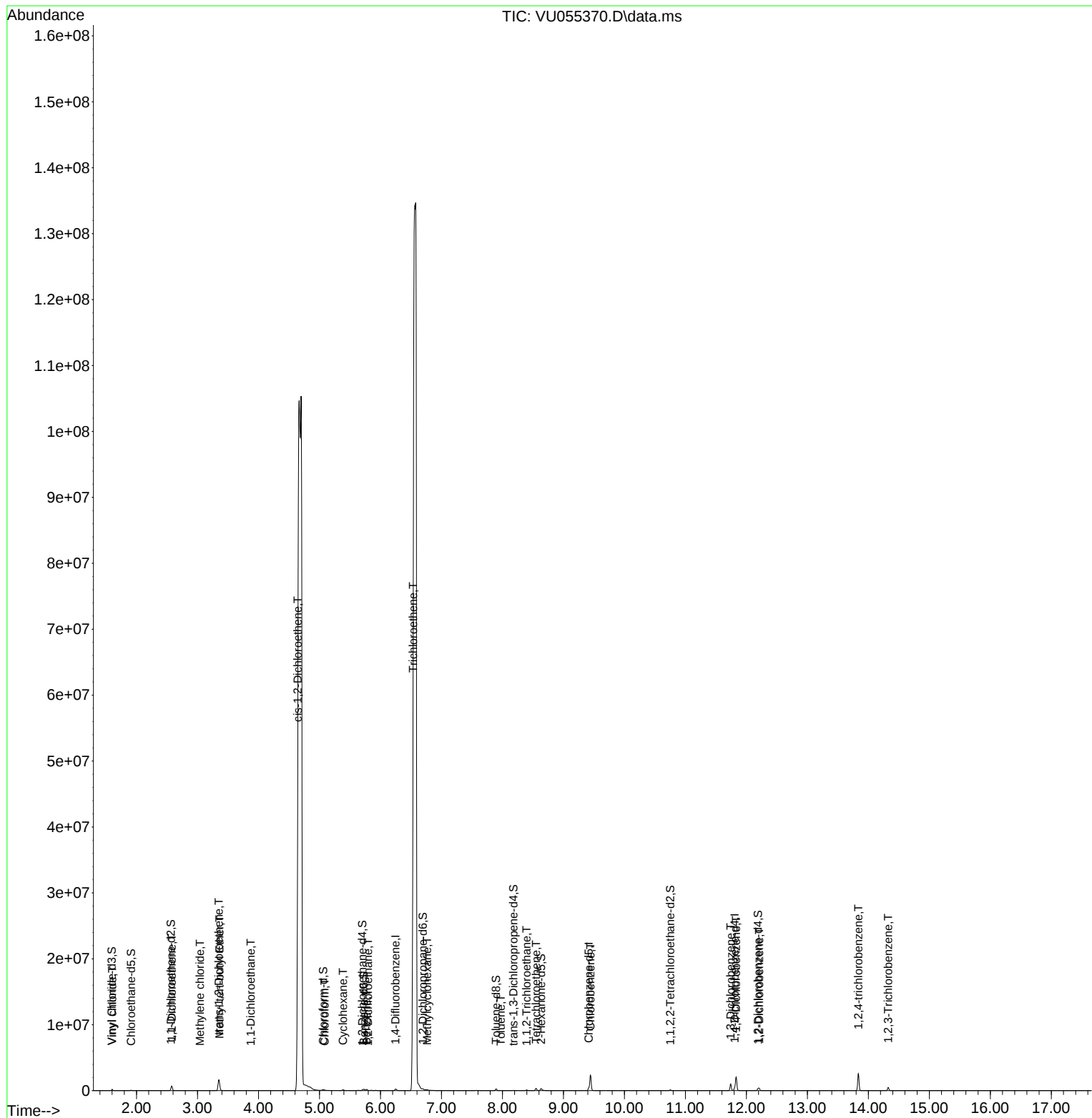
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091823\
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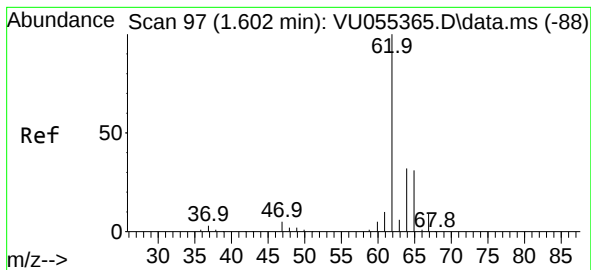
Instrument :
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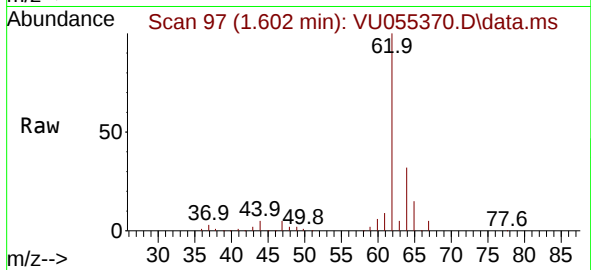
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#5
 Vinyl chloride
 Concen: 6.262 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU055370.D
 Acq: 18 Sep 2023 13:22

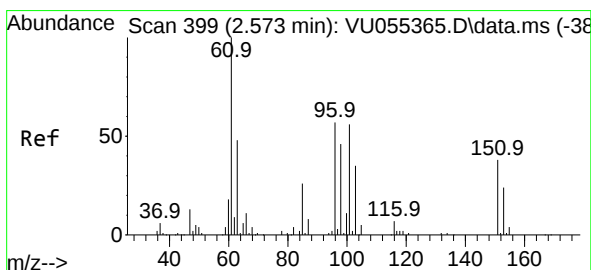
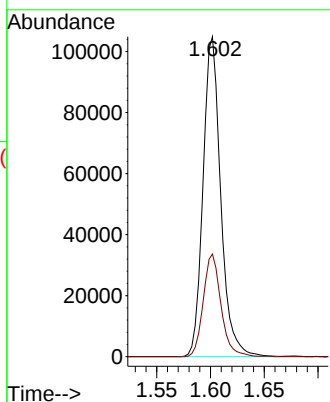
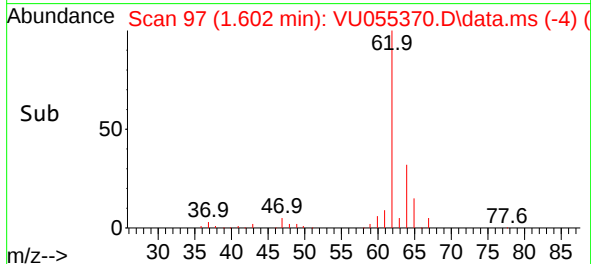
Instrument :
 MSVOA_U
 ClientSampleId :
 BH4K4



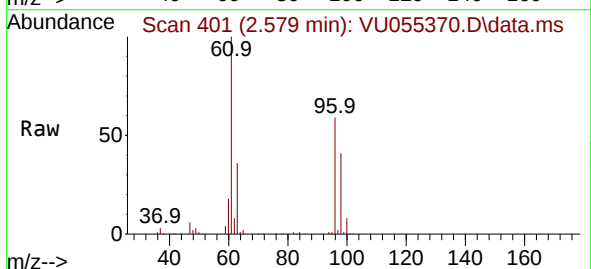
Tgt Ion: 62 Resp: 12013
 Ion Ratio Lower Upper
 62 100
 64 32.1 23.4 43.6

Manual Integrations
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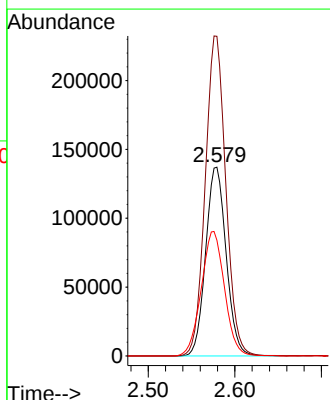
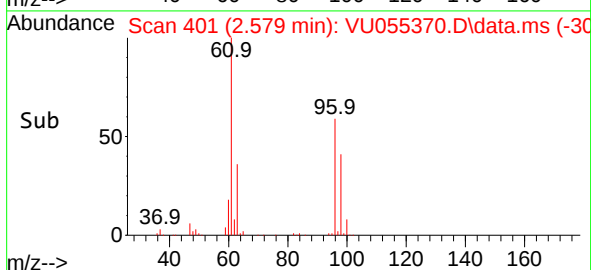
Reviewed By :Mahesh Dadoda 09/20/2023
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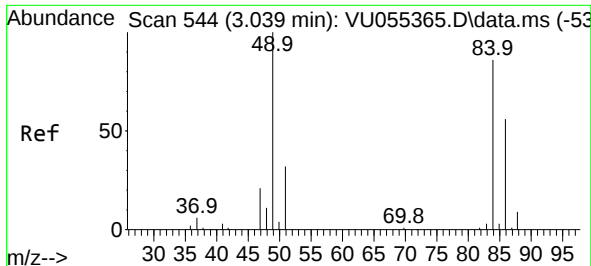


#12
 1,1-Dichloroethene
 Concen: 16.609 ug/L
 RT: 2.579 min Scan# 401
 Delta R.T. 0.006 min
 Lab File: VU055370.D
 Acq: 18 Sep 2023 13:22



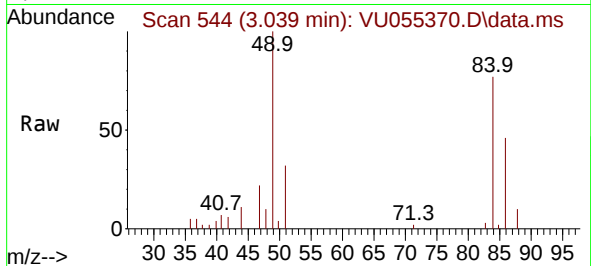
Tgt Ion: 96 Resp: 225932
 Ion Ratio Lower Upper
 96 100
 61 169.2 122.8 228.0
 63 61.3 71.7 133.3





#16
Methylene chloride
Concen: 0.365 ug/L
RT: 3.039 min Scan# 544
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

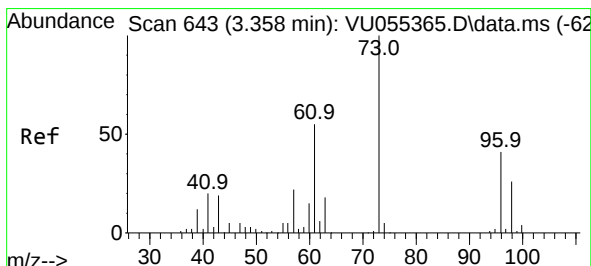
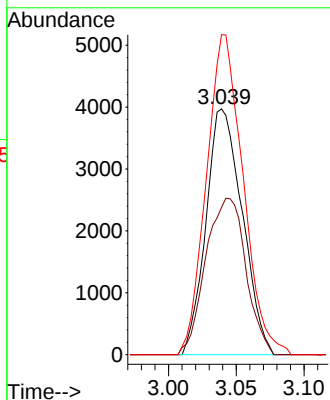
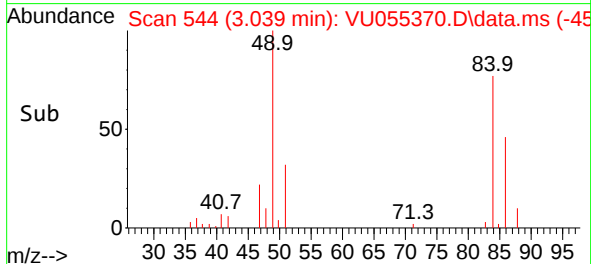
Instrument :
MSVOA_U
ClientSampleId :
BH4K4



Tgt Ion: 84 Resp: 7400
Ion Ratio Lower Upper
84 100
86 60.0 42.4 78.8
49 135.1 79.9 148.3

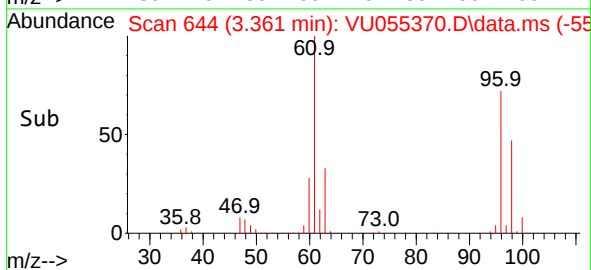
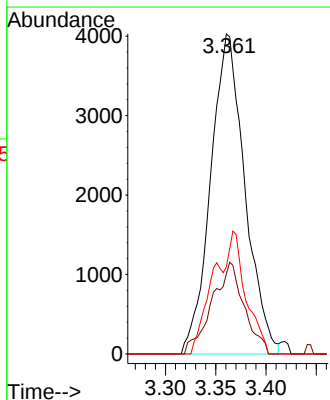
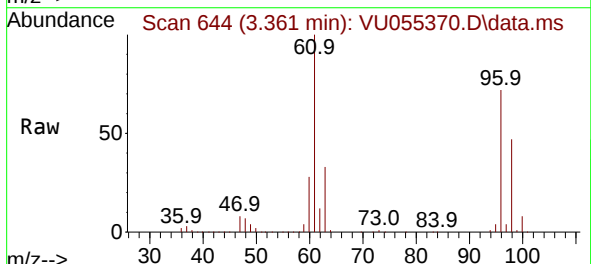
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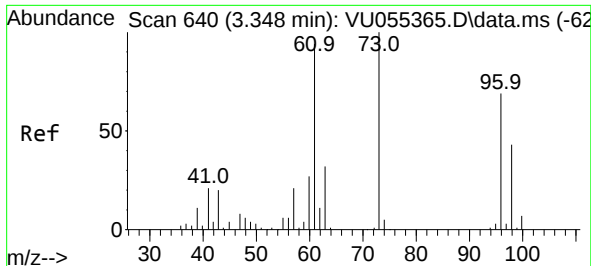
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023



#17
Methyl tert-butyl Ether
Concen: 0.292 ug/L
RT: 3.361 min Scan# 644
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

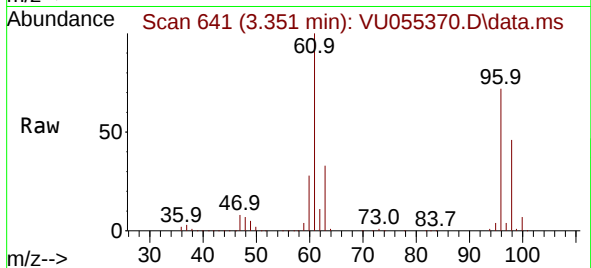
Tgt Ion: 73 Resp: 9532
Ion Ratio Lower Upper
73 100
43 26.9 16.0 24.0#
57 21.2 17.2 25.8





#18
trans-1,2-Dichloroethene
Concen: 45.583 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

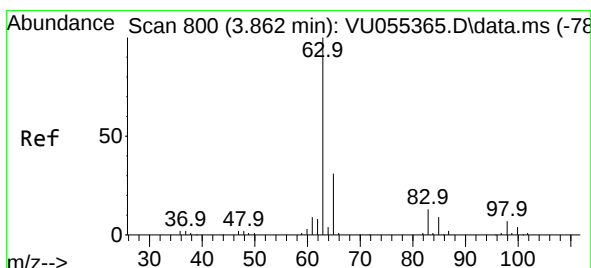
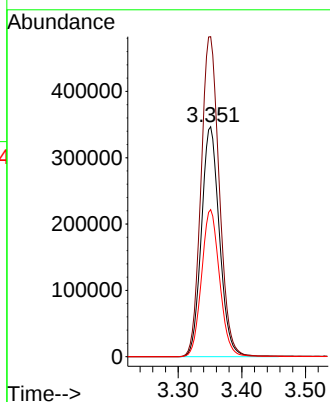
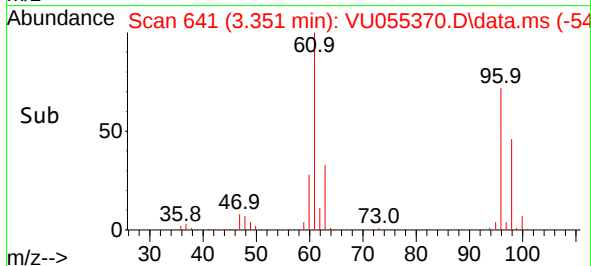
Instrument :
MSVOA_U
ClientSampleId :
BH4K4



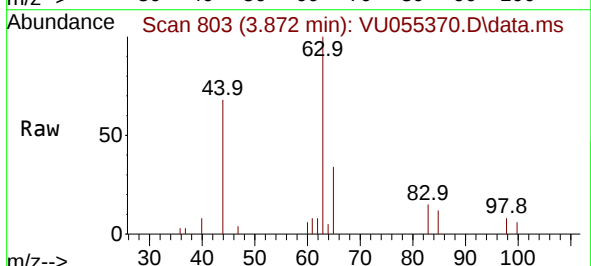
Tgt Ion: 96 Resp: 681762
Ion Ratio Lower Upper
96 100
61 139.2 97.4 181.0
98 64.0 44.6 82.8

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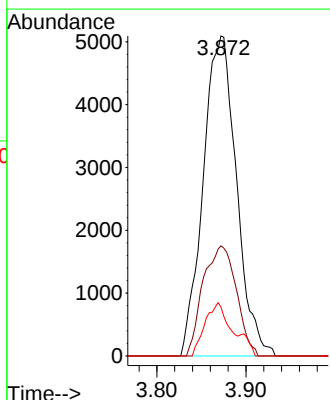
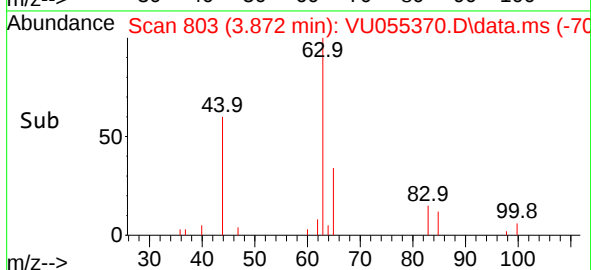
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023

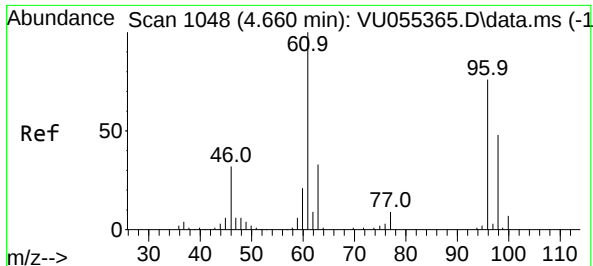


#19
1,1-Dichloroethane
Concen: 0.454 ug/L
RT: 3.872 min Scan# 803
Delta R.T. 0.009 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22



Tgt Ion: 63 Resp: 13203
Ion Ratio Lower Upper
63 100
65 34.4 21.8 40.6
83 15.3 9.7 17.9





#22

cis-1,2-Dichloroethene

Concen: 2581.715 ug/L m

RT: 4.644 min Scan# 1043

Delta R.T. -0.016 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Instrument :

MSVOA_U

ClientSampleId :

BH4K4

Tgt Ion: 96 Resp:4522363

Ion Ratio Lower Upper

96 100

61 100.0 88.1 163.7

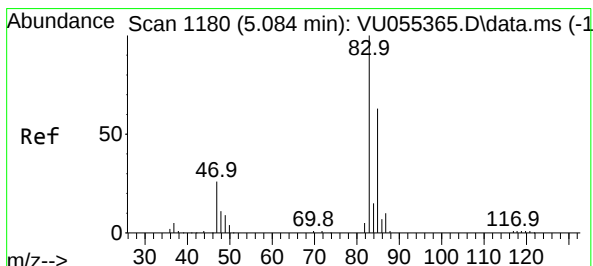
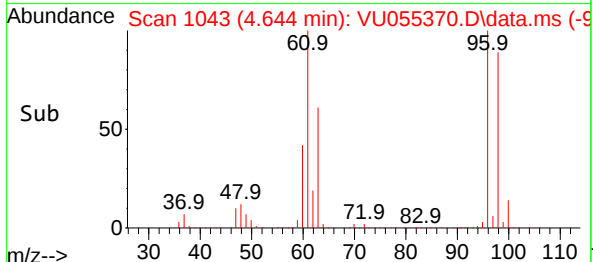
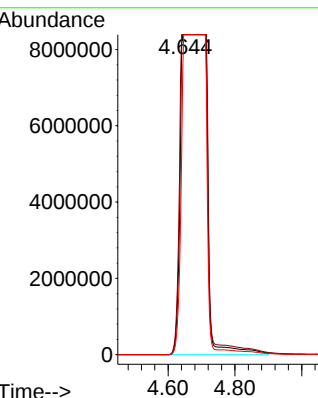
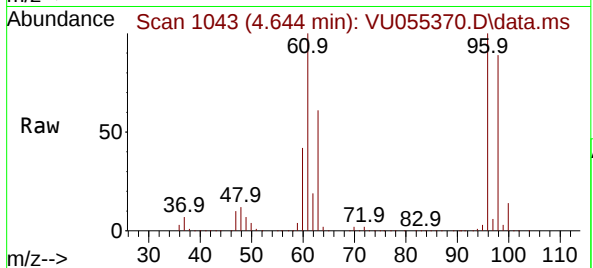
98 89.1 43.5 80.7

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#25

Chloroform

Concen: 0.696 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VU055370.D

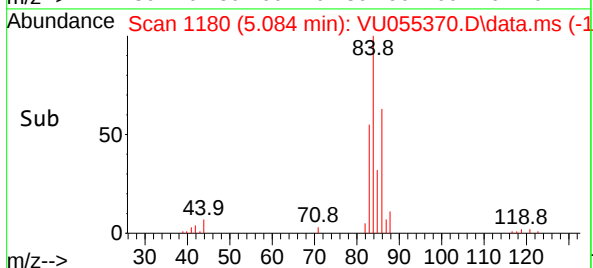
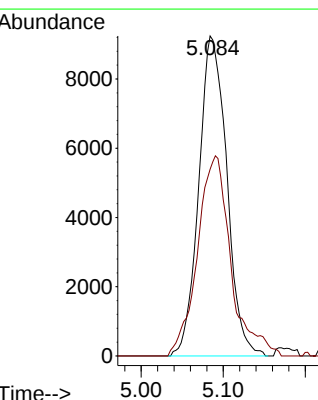
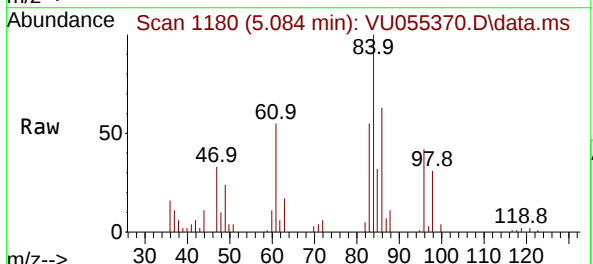
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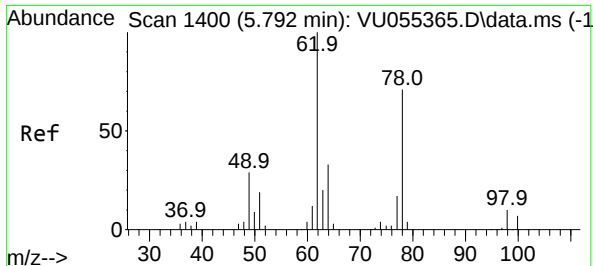
Tgt Ion: 83 Resp: 21937

Ion Ratio Lower Upper

83 100

85 58.4 44.4 82.4





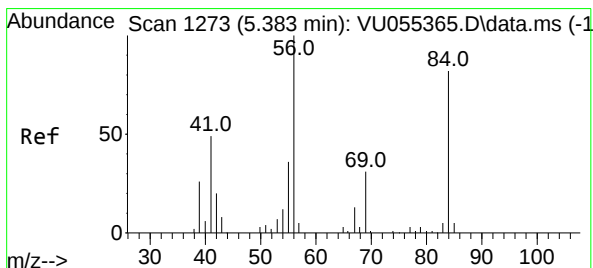
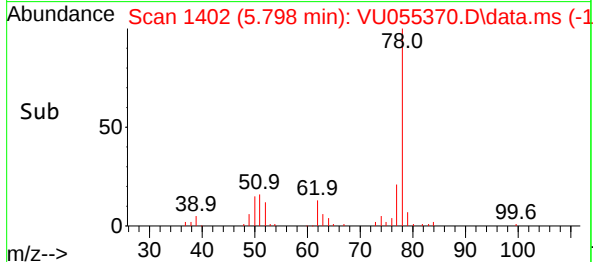
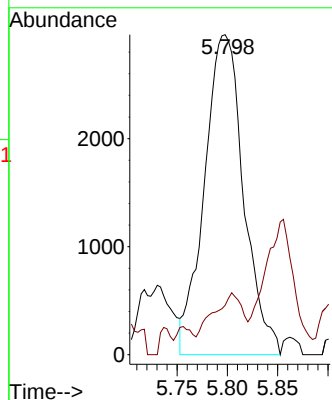
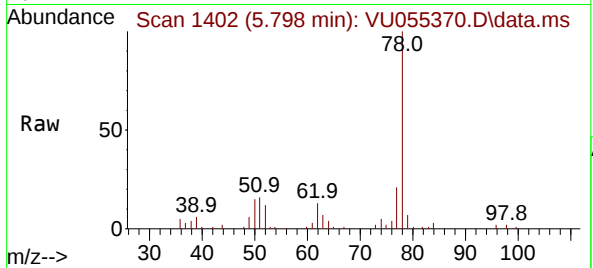
#27
1,2-Dichloroethane
Concen: 0.411 ug/L
RT: 5.798 min Scan# 1400
Delta R.T. 0.006 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Instrument :
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ClientSampleId :
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Tgt Ion: 62 Resp: 8029
Ion Ratio Lower Upper
62 100
98 15.5 7.1 10.7

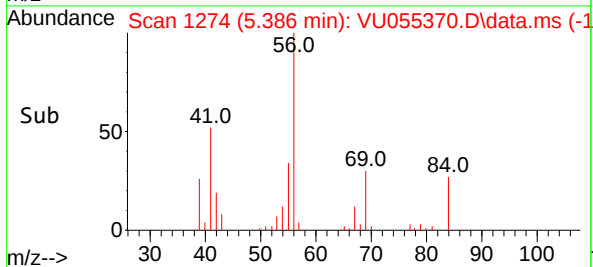
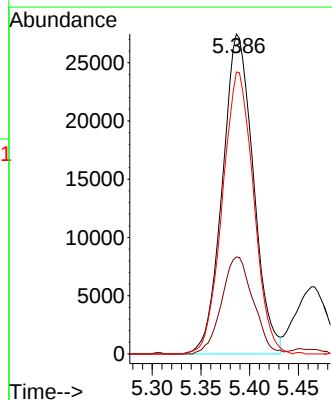
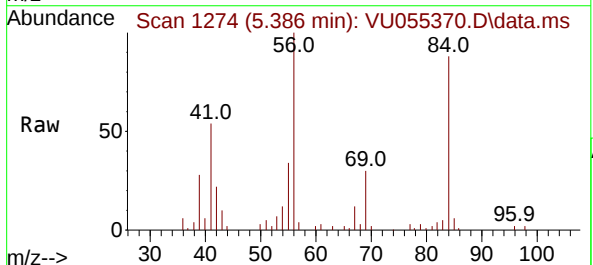
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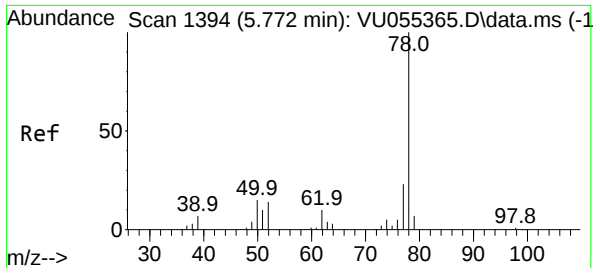
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023



#30
Cyclohexane
Concen: 2.532 ug/L
RT: 5.386 min Scan# 1274
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion: 56 Resp: 60725
Ion Ratio Lower Upper
56 100
69 30.9 25.0 37.6
84 88.6 70.2 105.4





#33

Benzene

Concen: 2.727 ug/L

RT: 5.775 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Instrument :

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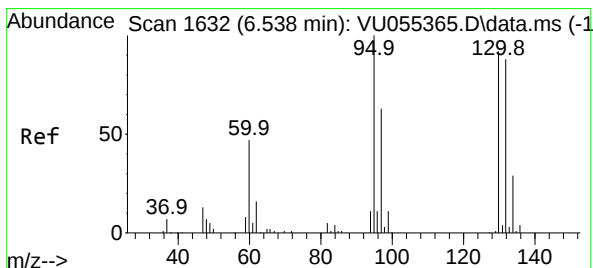
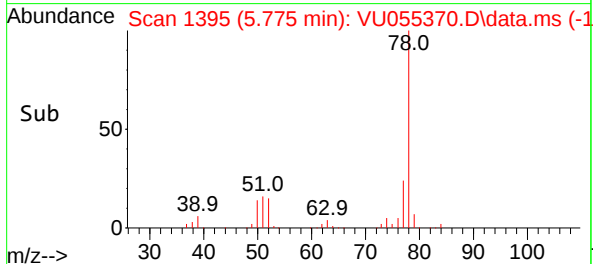
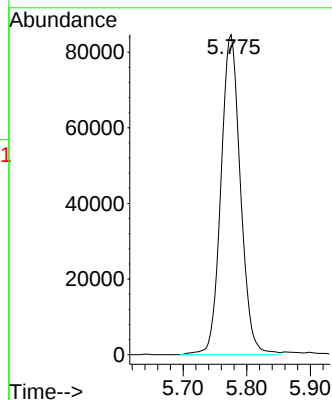
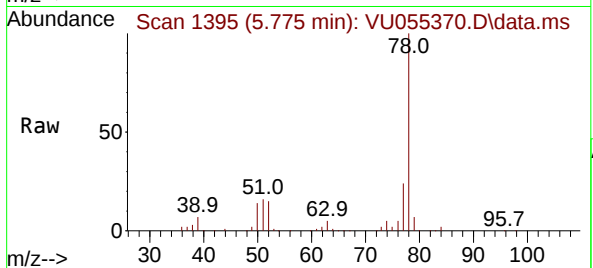
ClientSampleId :

BH4K4

Tgt Ion: 78 Resp: 180428

Manual Integrations
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Supervised By :Semsettin Yesilyurt 09/20/2023



#34

Trichloroethene

Concen: 1972.392 ug/L m

RT: 6.534 min Scan# 1631

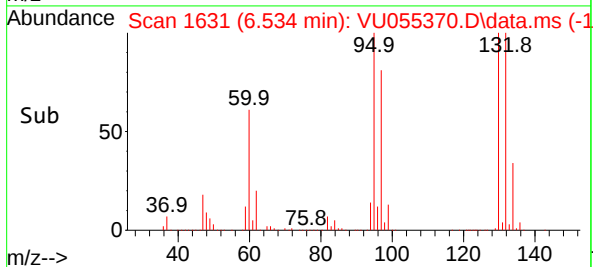
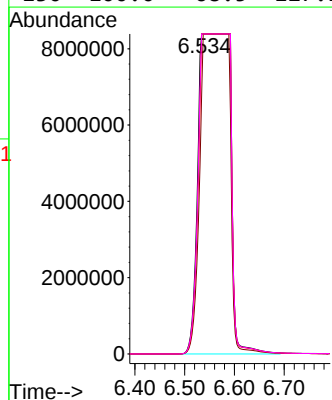
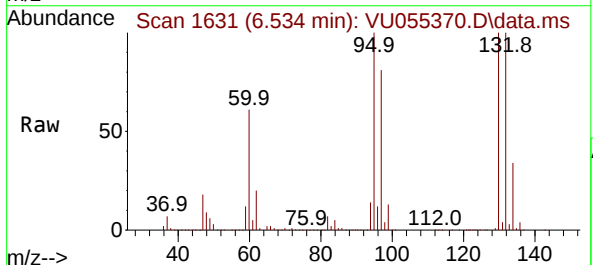
Delta R.T. -0.004 min

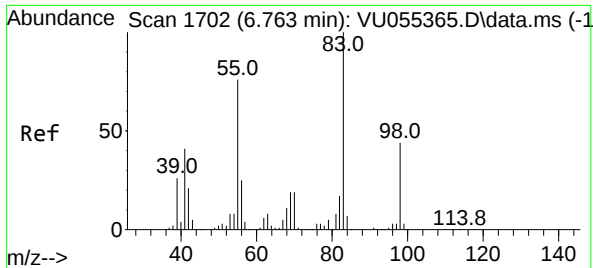
Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Tgt Ion: 95 Resp:37149655

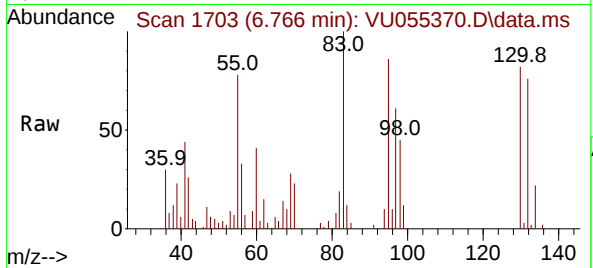
Ion	Ratio	Lower	Upper
95	100		
97	80.9	47.4	88.0
132	100.0	60.5	112.3
130	100.0	68.5	127.1





#35
Methylcyclohexane
Concen: 1.192 ug/L
RT: 6.766 min Scan# 1702
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

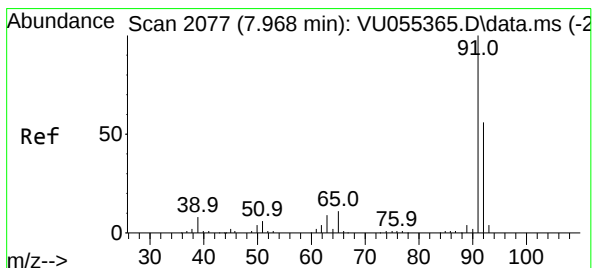
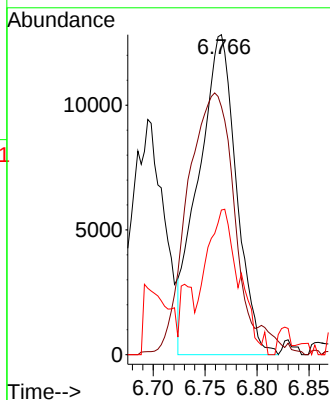
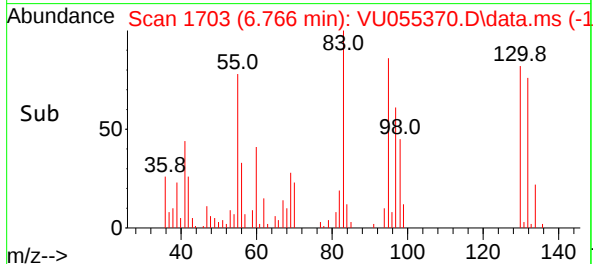
Instrument :
MSVOA_U
ClientSampleId :
BH4K4



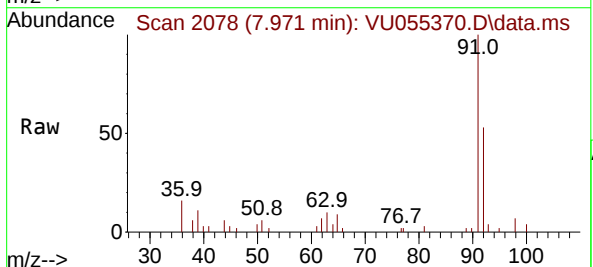
Tgt Ion: 83 Resp: 3263
Ion Ratio Lower Upper
83 100
55 99.3 58.7 88.1
98 0.0 36.3 54.5

Manual Integrations
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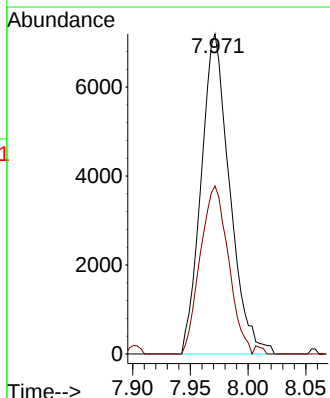
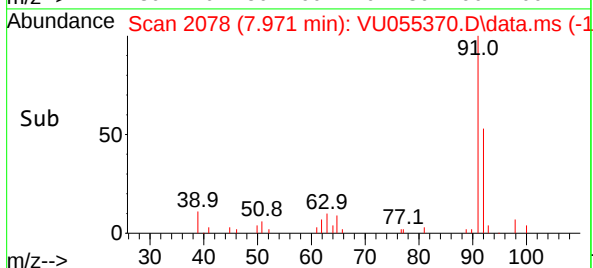
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023

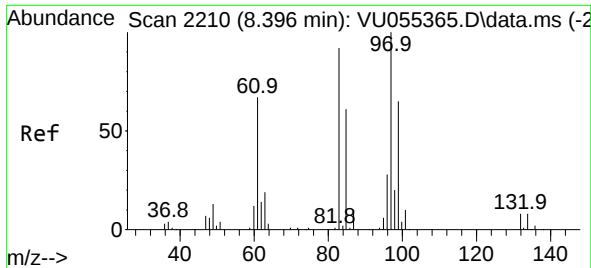


#42
Toluene
Concen: 0.171 ug/L
RT: 7.971 min Scan# 2078
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22



Tgt Ion: 91 Resp: 12366
Ion Ratio Lower Upper
91 100
92 52.5 39.5 73.4





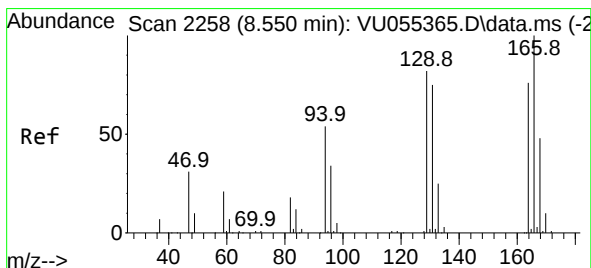
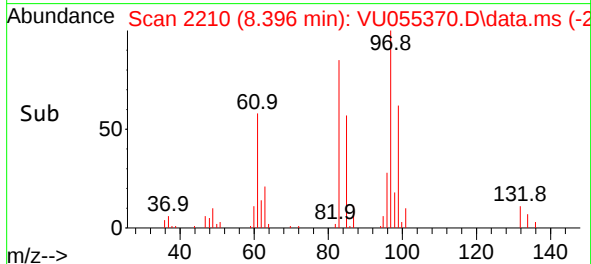
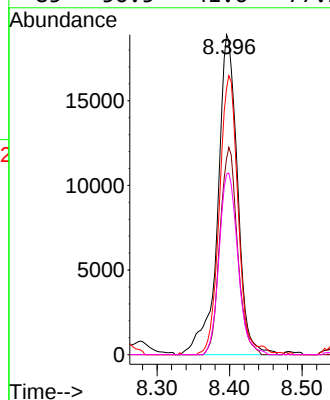
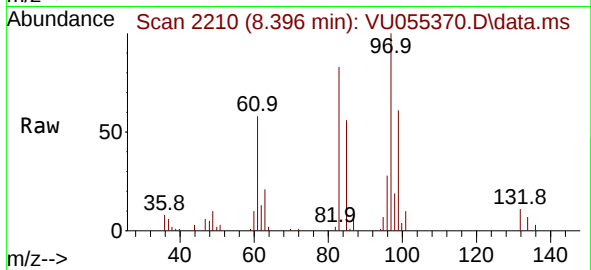
#45
1,1,2-Trichloroethane
Concen: 2.983 ug/L
RT: 8.396 min Scan# 2110
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Instrument :
MSVOA_U
ClientSampleId :
BH4K4

Tgt Ion	97	Resp:	3593
Ion	Ratio	Lower	Upper
97	100		
99	61.4	42.4	78.6
83	83.3	61.3	113.9
85	56.5	41.6	77.2

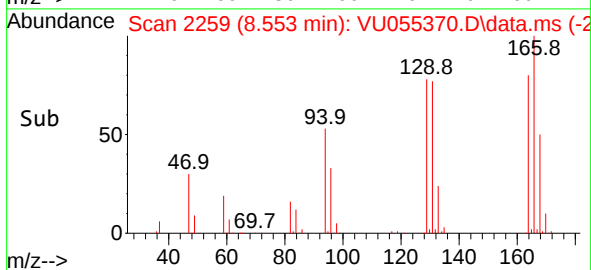
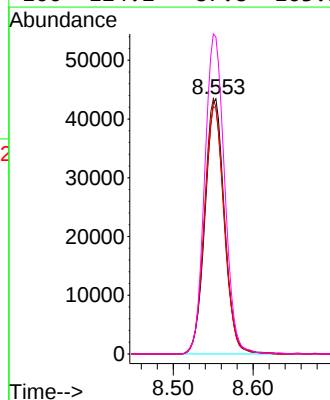
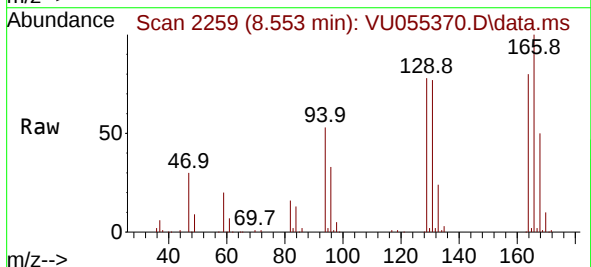
Manual Integrations
APPROVED

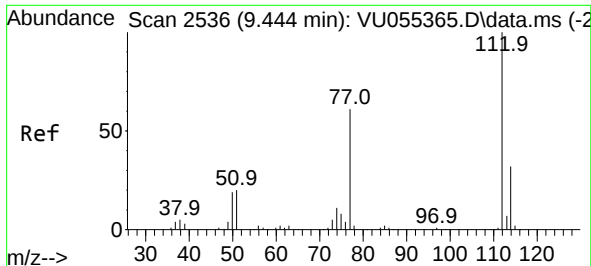
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023



#47
Tetrachloroethene
Concen: 5.722 ug/L
RT: 8.553 min Scan# 2259
Delta R.T. 0.003 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

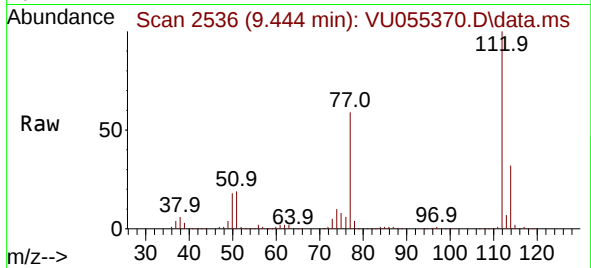
Tgt Ion	164	Resp:	73866
Ion	Ratio	Lower	Upper
164	100		
129	96.7	76.3	141.7
131	96.3	69.1	128.3
166	124.2	87.8	163.2





#51
Chlorobenzene
Concen: 26.724 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

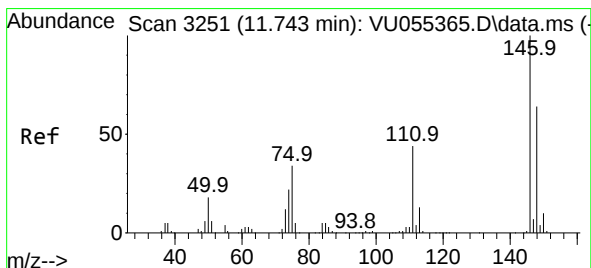
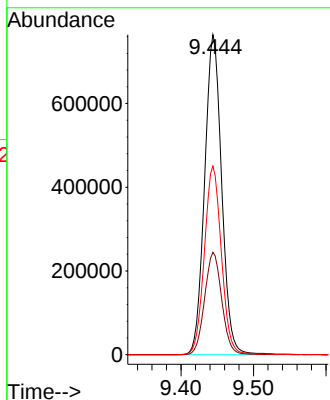
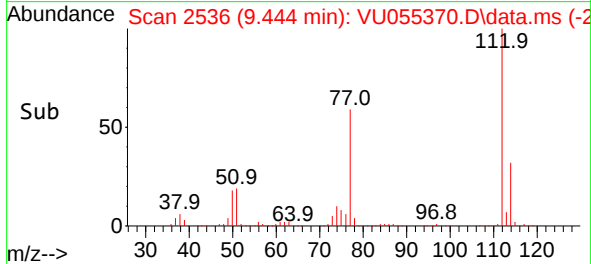
Instrument :
MSVOA_U
ClientSampleId :
BH4K4



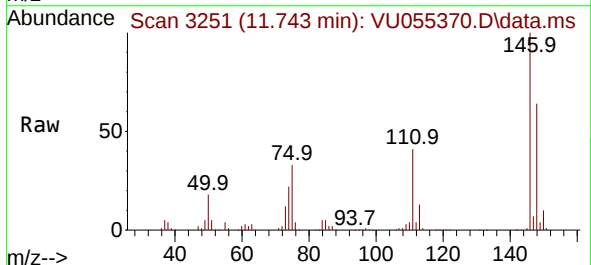
Tgt Ion:112 Resp: 1250108
Ion Ratio Lower Upper
112 100
114 32.0 21.8 40.6
77 59.0 47.4 71.0

Manual Integrations
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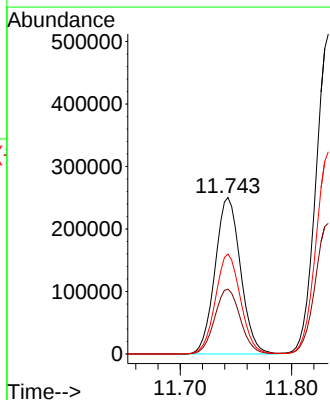
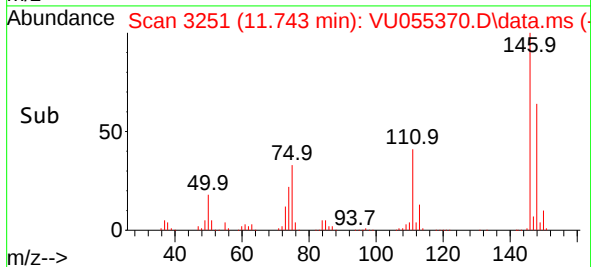
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023

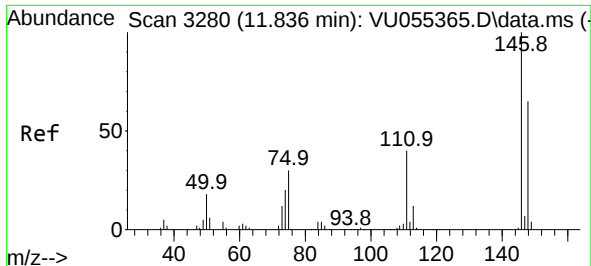


#64
1,3-Dichlorobenzene
Concen: 11.447 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. -0.000 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22



Tgt Ion:146 Resp: 397904
Ion Ratio Lower Upper
146 100
111 41.4 30.4 56.4
148 63.8 44.9 83.5





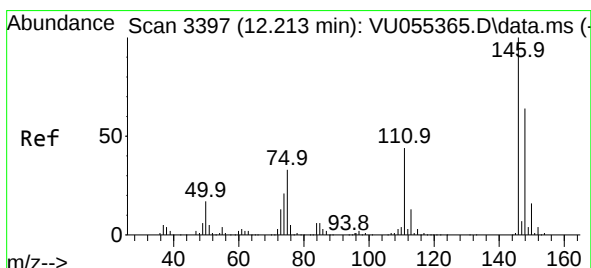
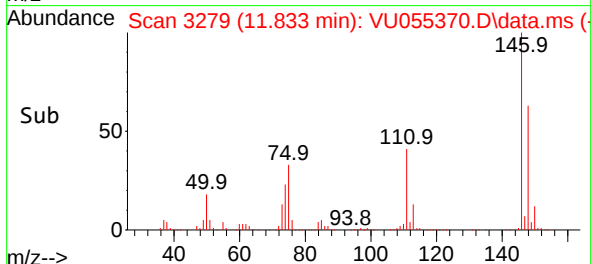
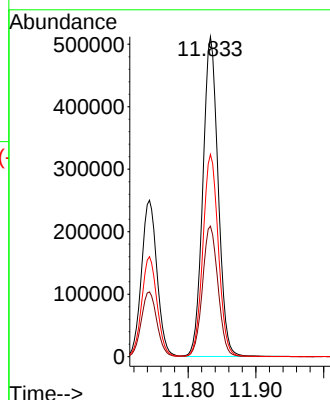
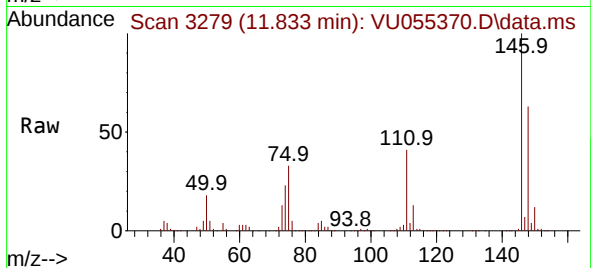
#65
1,4-Dichlorobenzene
Concen: 23.599 ug/L
RT: 11.833 min Scan# 31
Delta R.T. -0.004 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Instrument :
MSVOA_U
ClientSampleId :
BH4K4

Tgt Ion:146 Resp: 80170
Ion Ratio Lower Upper
146 100
111 40.8 28.7 53.3
148 63.2 43.5 80.9

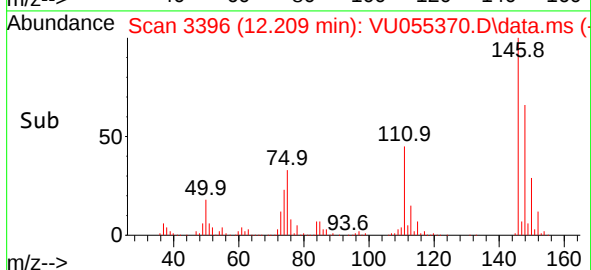
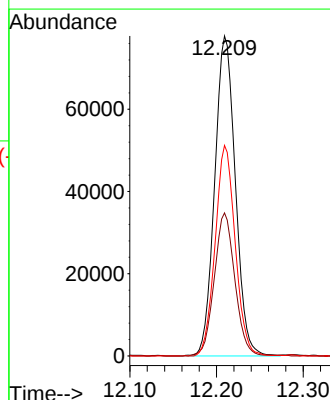
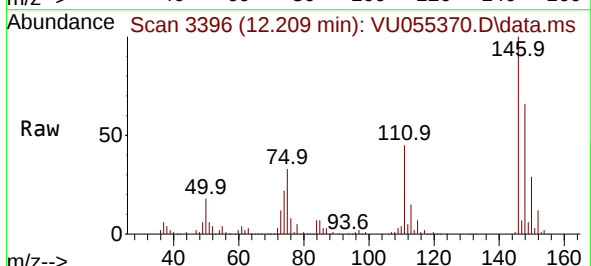
Manual Integrations
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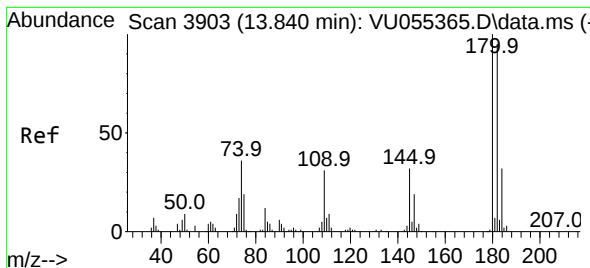
Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023



#67
1,2-Dichlorobenzene
Concen: 4.143 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.004 min
Lab File: VU055370.D
Acq: 18 Sep 2023 13:22

Tgt Ion:146 Resp: 129110
Ion Ratio Lower Upper
146 100
111 44.7 35.4 53.0
148 65.8 51.4 77.2





#70

1,2,4-trichlorobenzene

Concen: 39.164 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.004 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Instrument :

MSVOA_U

ClientSampleId :

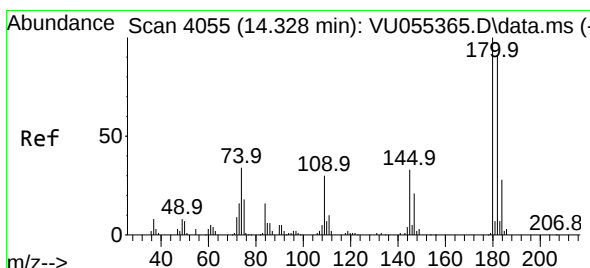
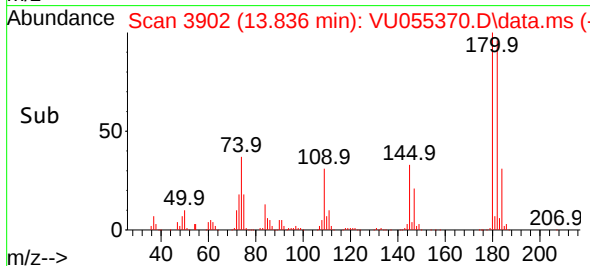
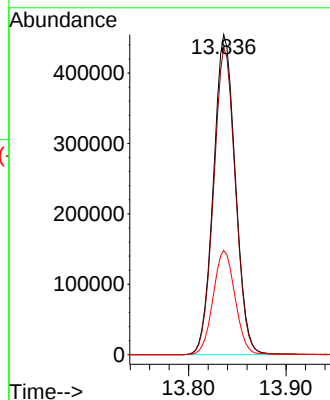
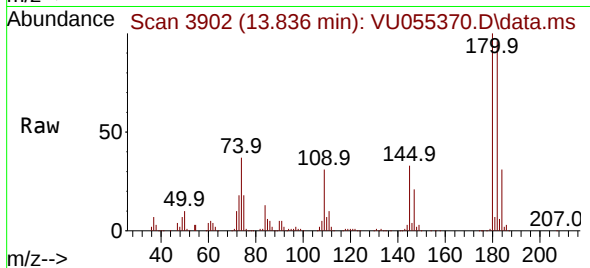
BH4K4

Tgt Ion:	180	Resp:	71174
Ion Ratio	Lower	Upper	
180	100		
182	95.3	76.3	114.5
145	32.7	25.8	38.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/20/2023
Supervised By :Semsettin Yesilyurt 09/20/2023



#72

1,2,3-Trichlorobenzene

Concen: 8.802 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. -0.004 min

Lab File: VU055370.D

Acq: 18 Sep 2023 13:22

Tgt Ion:	180	Resp:	138483
Ion Ratio	Lower	Upper	
180	100		
182	94.2	74.6	112.0
145	34.4	27.3	40.9

