

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071723\
 Data File : VU054796.D
 Acq On : 17 Jul 2023 16:31
 Operator : MD/SY
 Sample : 03573-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT3-2023-05

Quant Time: Jul 18 06:08:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM071723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 18 05:50:33 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/18/2023
 Supervised By : Mahesh Dadoda 07/18/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	238477	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	227071	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	118889	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	86182	46.757	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	93.520%		
7) Chloroethane-d5	1.878	69	83902	45.505	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.000%		
11) 1,1-Dichloroethene-d2	2.550	63	85650	32.395	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	64.780%		
21) 2-Butanone-d5	4.618	46	117747	99.386	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	99.390%		
24) Chloroform-d	5.055	84	125276	43.663	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.320%		
26) 1,2-Dichloroethane-d4	5.695	65	80098	46.620	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.240%		
32) Benzene-d6	5.721	84	254671	47.084	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.160%		
36) 1,2-Dichloropropane-d6	6.685	67	87310	47.938	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	95.880%		
41) Toluene-d8	7.894	98	242491	47.047	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.100%		
43) trans-1,3-Dichloroprop...	8.177	79	42074	45.159	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	90.320%		
47) 2-Hexanone-d5	8.630	63	83874	97.423	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	97.420%		
56) 1,1,2,2-Tetrachloroeth...	10.753	84	149505	44.691	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	89.380%		
66) 1,2-Dichlorobenzene-d4	12.190	152	100653	49.268	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	98.540%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	2398	1.331	ug/L	99
3) Chloromethane	1.518	50	4920m	2.394	ug/L	
5) Vinyl chloride	1.602	62	4569	1.710	ug/L #	64
6) Bromomethane	1.824	94	3943	2.424	ug/L	89
8) Chloroethane	1.901	64	3172	1.716	ug/L	85
9) Trichlorofluoromethane	2.116	101	7180	1.679	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.560	101	3300	2.091	ug/L #	58
12) 1,1-Dichloroethene	2.563	96	3226	2.174	ug/L #	1
13) Acetone	2.628	43	4532m	4.548	ug/L	
14) Carbon disulfide	2.782	76	5506	1.271	ug/L	99
15) Methyl Acetate	2.946	43	3615	2.175	ug/L #	85
17) trans-1,2-Dichloroethene	3.338	96	2468	1.607	ug/L	83
18) Methyl tert-butyl Ether	3.354	73	9009	1.695	ug/L #	84
19) 1,1-Dichloroethane	3.859	63	4680	1.597	ug/L	93
20) cis-1,2-Dichloroethene	4.653	96	2904m	1.591	ug/L	
22) 2-Butanone	4.724	43	5156m	3.748	ug/L	
23) Bromochloromethane	4.962	128	1626m	1.751	ug/L	
25) Chloroform	5.074	83	6948	2.261	ug/L	88
27) 1,2-Dichloroethane	5.791	62	4332	1.856	ug/L	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Cyclohexane	5.383	56	3823	1.531	ug/L	94
30) 1,1,1-Trichloroethane	5.309	97	4661	1.850	ug/L	93
31) Carbon tetrachloride	5.525	117	3647	1.676	ug/L	94
33) Benzene	5.772	78	11189m	1.720	ug/L	
34) Trichloroethene	6.544	95	3184m	1.923	ug/L	
35) Methylcyclohexane	6.759	83	3996m	1.476	ug/L	
37) 1,2-Dichloropropane	6.788	63	3087	1.725	ug/L #	88
38) Bromodichloromethane	7.106	83	4073	1.774	ug/L	90
39) cis-1,3-Dichloropropene	7.605	75	5341	1.810	ug/L	92
40) 4-Methyl-2-pentanone	7.791	43	9175	3.349	ug/L	93
42) Toluene	7.968	91	11703	1.608	ug/L	98
44) trans-1,3-Dichloropropene	8.213	75	4141	1.494	ug/L	98
45) 1,1,2-Trichloroethane	8.396	97	3329	1.825	ug/L	86
46) Tetrachloroethene	8.550	164	1959	1.543	ug/L	84
49) Dibromochloromethane	8.807	129	3384	1.801	ug/L	79
50) 1,2-Dibromoethane	8.923	107	3398	1.731	ug/L #	97
51) Chlorobenzene	9.444	112	7783	1.643	ug/L #	88
52) Ethylbenzene	9.569	91	14021	1.666	ug/L	93
53) m,p-Xylene	9.695	106	6209	1.938	ug/L	93
54) o-Xylene	10.097	106	5038	1.548	ug/L	93
55) Styrene	10.113	104	8962	1.581	ug/L	83
57) 1,1,2,2-Tetrachloroethane	10.778	83	7202	2.000	ug/L	93
59) Bromoform	10.286	173	1435m	0.965	ug/L	
60) 1,2,3-Trichloropropane	10.820	75	4317	1.861	ug/L #	89
61) Isopropylbenzene	10.483	105	12625	1.607	ug/L	95
62) 1,3,5-Trimethylbenzene	11.087	105	10088	1.559	ug/L	100
63) 1,2,4-Trimethylbenzene	11.470	105	9686	1.511	ug/L	98
64) 1,3-Dichlorobenzene	11.746	146	5801	1.592	ug/L	85
65) 1,4-Dichlorobenzene	11.833	146	6744	1.838	ug/L	96
67) 1,2-Dichlorobenzene	12.209	146	6628	1.811	ug/L #	80
68) 1,2-Dibromo-3-chloropr...	13.000	75	1348	2.174	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.225	180	3298	1.350	ug/L #	61
71) Naphthalene	14.090	128	13819	1.997	ug/L #	88

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

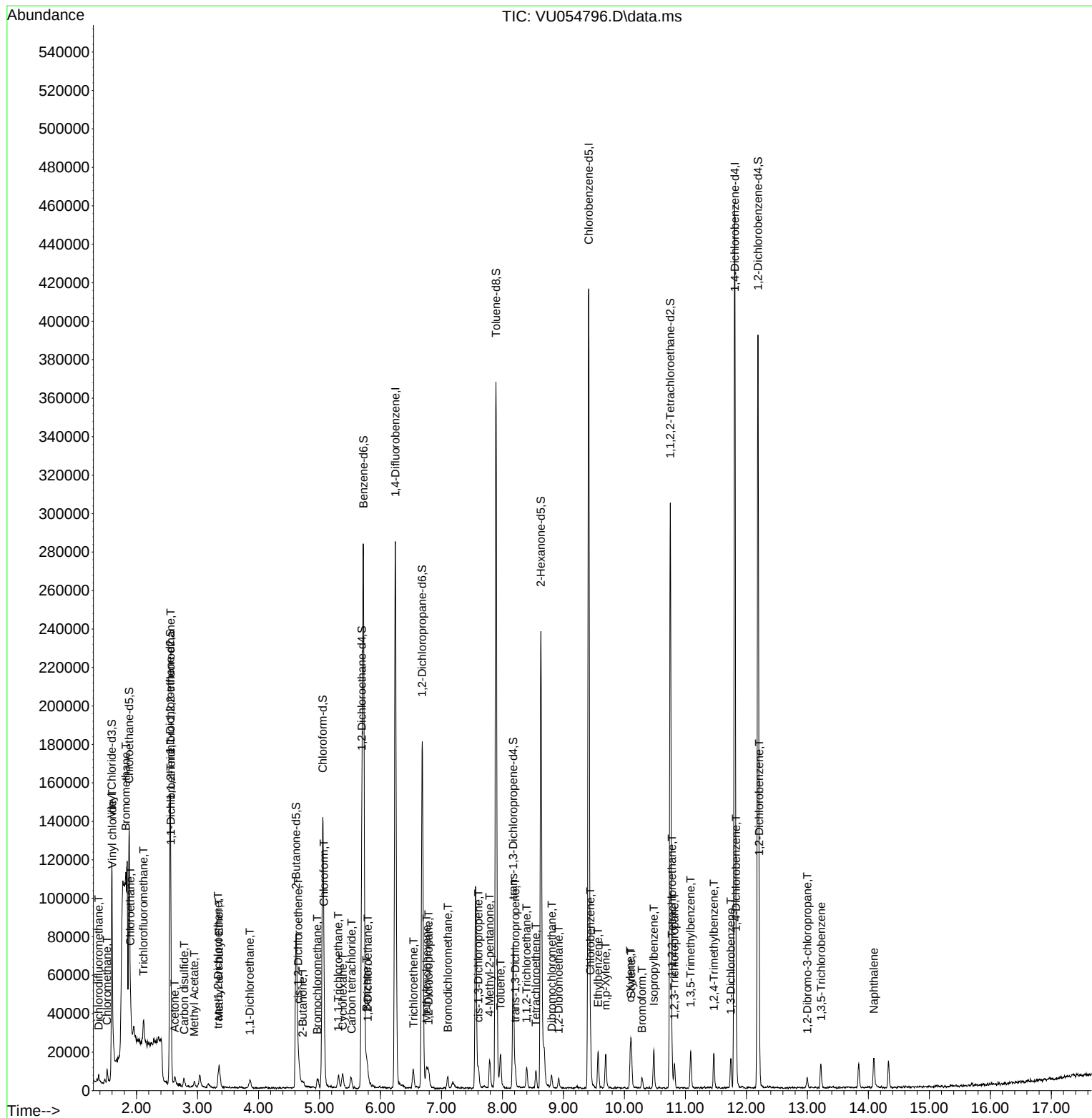
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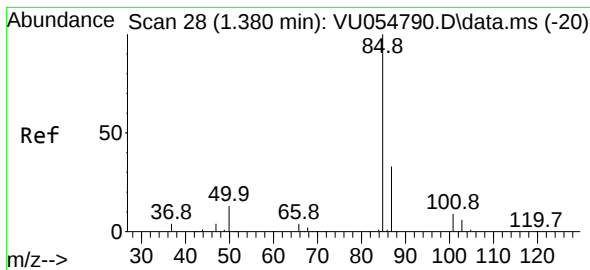
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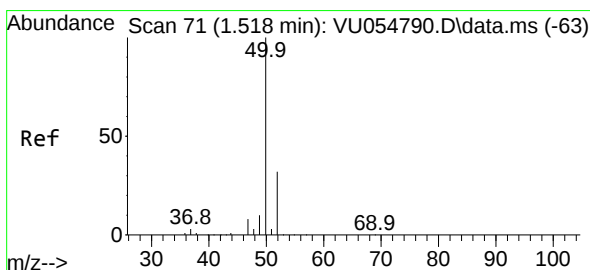
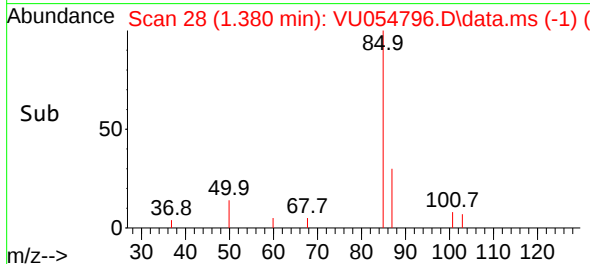
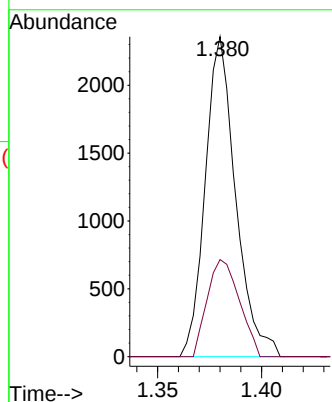
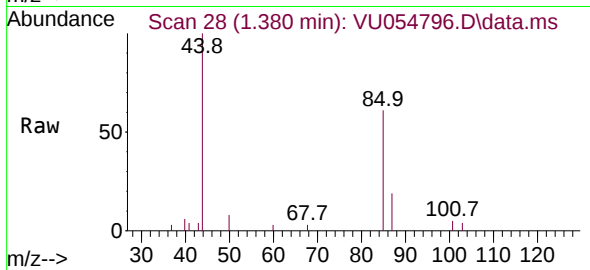
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 Dichlorodifluoromethane
 Concen: 1.331 ug/L
 RT: 1.380 min Scan# 28
 Delta R.T. -0.000 min
 Lab File: VU054796.D
 Acq: 17 Jul 2023 16:31

Instrument : MSVOA_U
 ClientSampleId :
 MDL-WATER-QT3-2023-05

Tgt Ion: 85 Resp: 2398
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.2 39.2

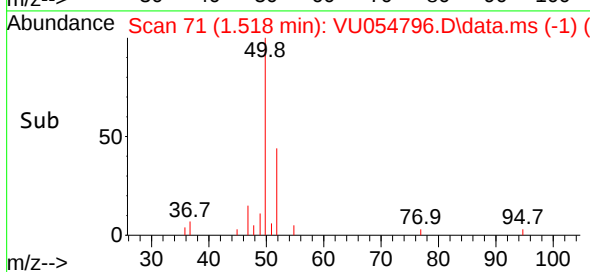
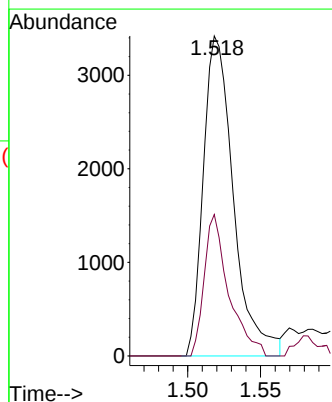
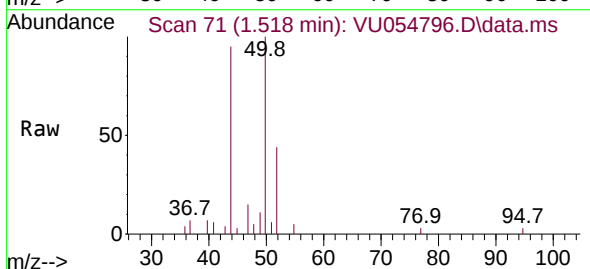
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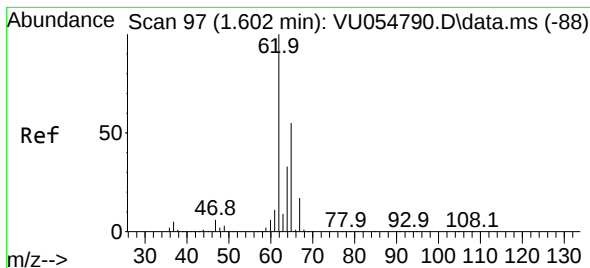
Reviewed By :John Carlone 07/18/2023
 Supervised By :Mahesh Dadoda 07/18/2023



#3
 Chloromethane
 Concen: 2.394 ug/L m
 RT: 1.518 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VU054796.D
 Acq: 17 Jul 2023 16:31

Tgt Ion: 50 Resp: 4920
 Ion Ratio Lower Upper
 50 100
 52 44.2 22.5 41.9#





#5

Vinyl chloride

Concen: 1.710 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT3-2023-05

Tgt Ion: 62 Resp: 4569

Ion Ratio Lower Upper

62 100

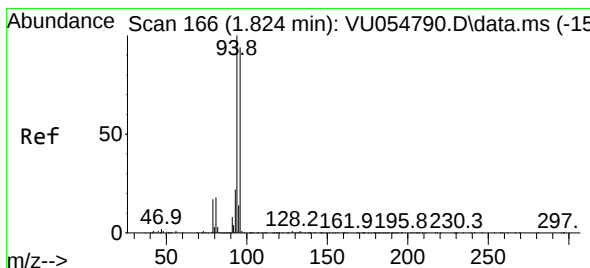
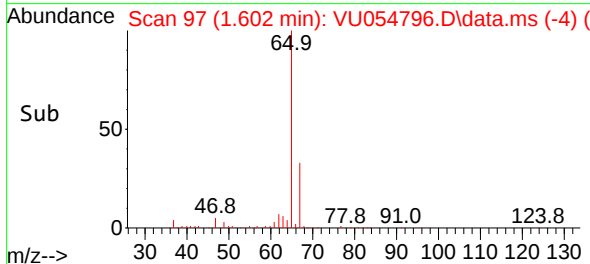
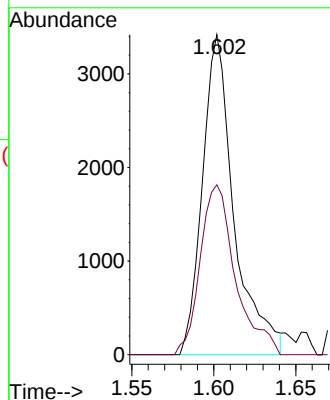
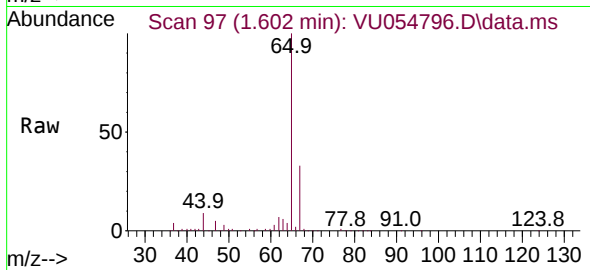
64 53.1 22.9 42.5

Manual Integrations

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#6

Bromomethane

Concen: 2.424 ug/L

RT: 1.824 min Scan# 166

Delta R.T. -0.000 min

Lab File: VU054796.D

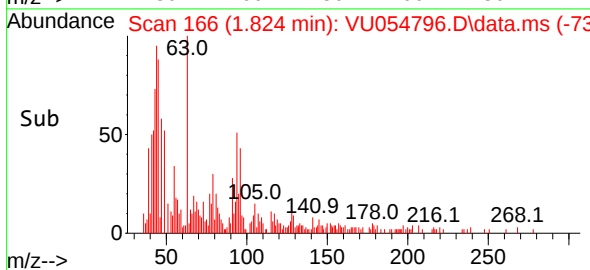
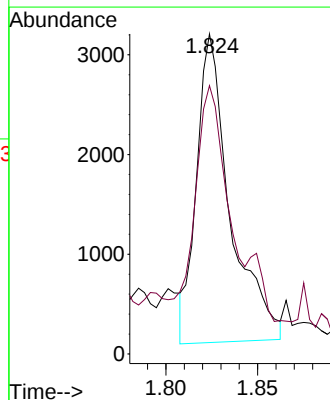
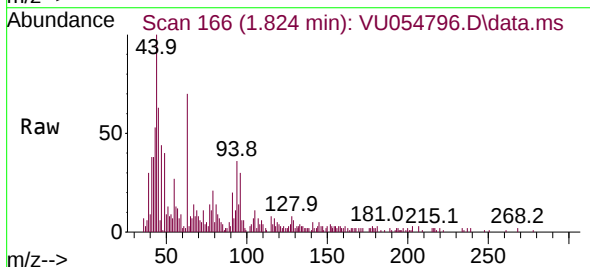
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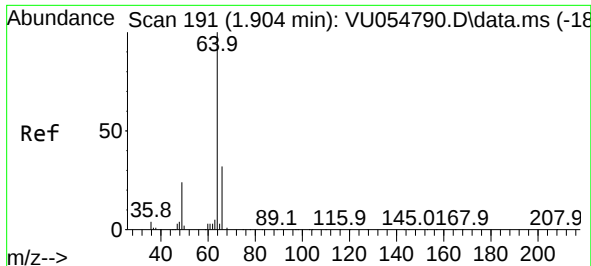
Tgt Ion: 94 Resp: 3943

Ion Ratio Lower Upper

94 100

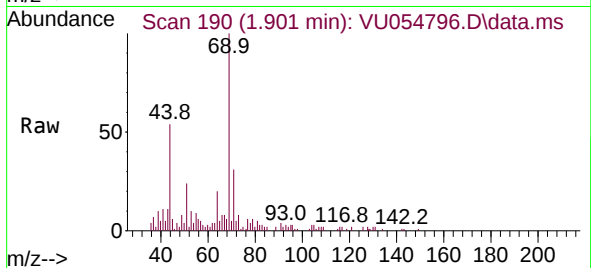
96 83.9 66.1 122.8





#8
Chloroethane
Concen: 1.716 ug/L
RT: 1.901 min Scan# 191
Delta R.T. -0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

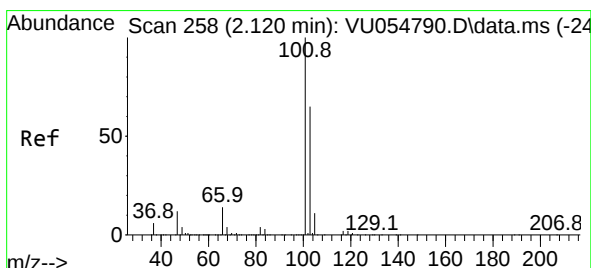
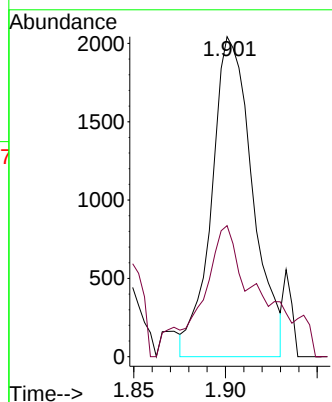
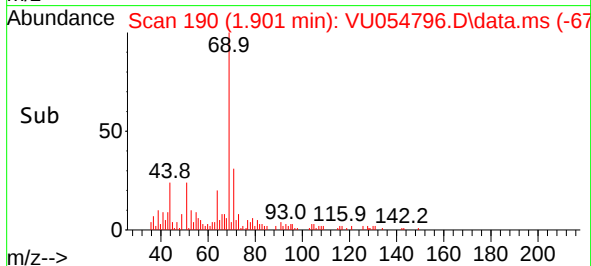
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT3-2023-05



Tgt Ion: 64 Resp: 3172
Ion Ratio Lower Upper
64 100
66 41.0 22.8 42.4

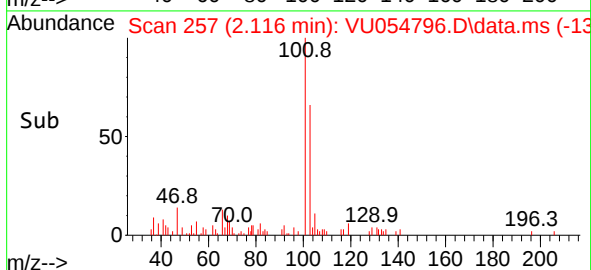
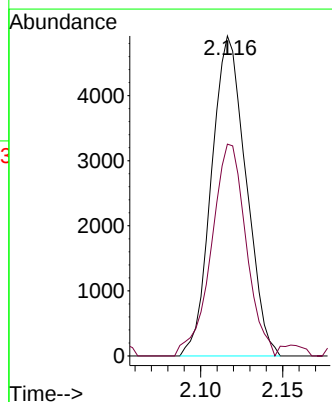
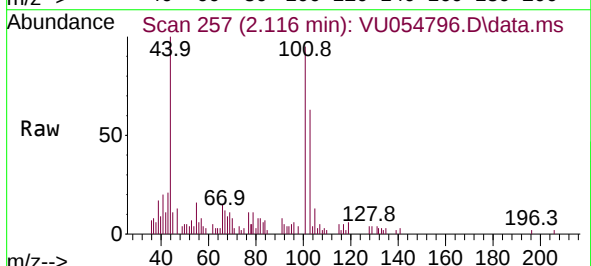
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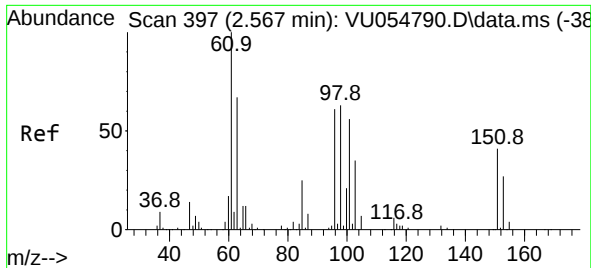
Reviewed By :John Carlone 07/18/2023
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#9
Trichlorofluoromethane
Concen: 1.679 ug/L
RT: 2.116 min Scan# 257
Delta R.T. -0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion:101 Resp: 7180
Ion Ratio Lower Upper
101 100
103 66.4 52.2 78.2





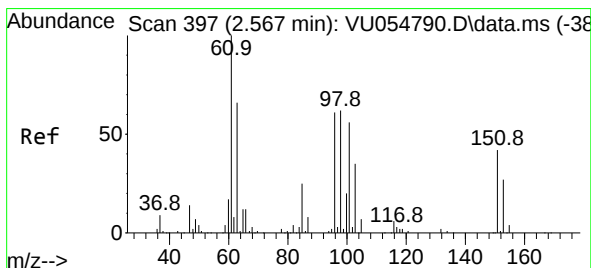
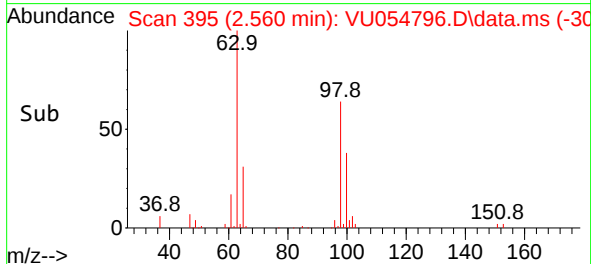
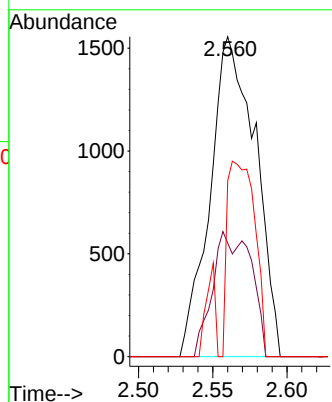
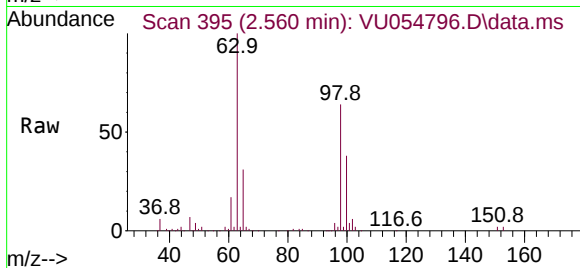
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.091 ug/L
RT: 2.560 min Scan# 395
Delta R.T. -0.007 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument :
MSVOA_U
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Tgt Ion: 101 Resp: 3300
Ion Ratio Lower Upper
101 100
85 17.7 35.3 52.9
151 37.2 58.2 87.4

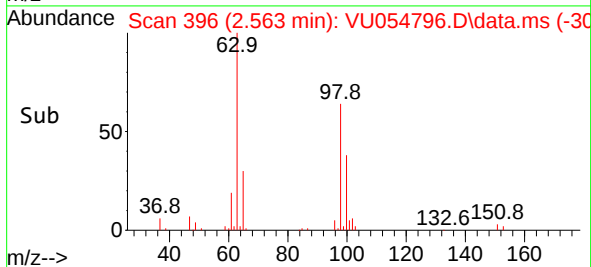
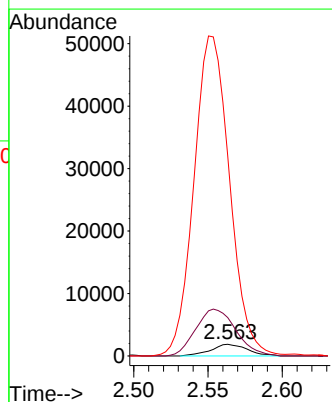
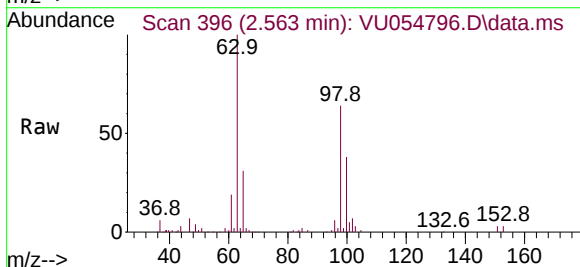
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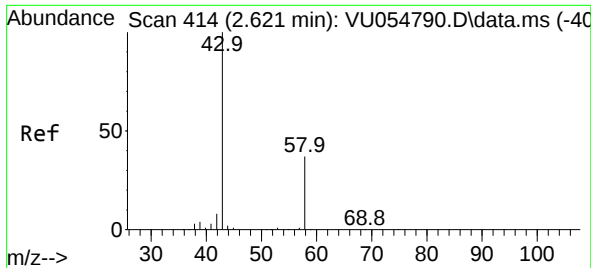
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#12
1,1-Dichloroethene
Concen: 2.174 ug/L
RT: 2.563 min Scan# 396
Delta R.T. -0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion: 96 Resp: 3226
Ion Ratio Lower Upper
96 100
61 330.4 115.0 213.6#
63 1721.6 77.6 144.0#





#13

Acetone

Concen: 4.548 ug/L m

RT: 2.628 min Scan# 414

Delta R.T. 0.006 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT3-2023-05

Tgt Ion: 43 Resp: 453

Ion Ratio Lower Upper

43 100

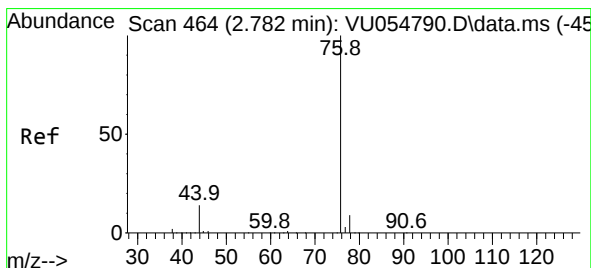
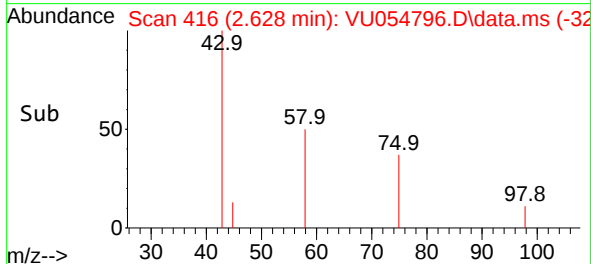
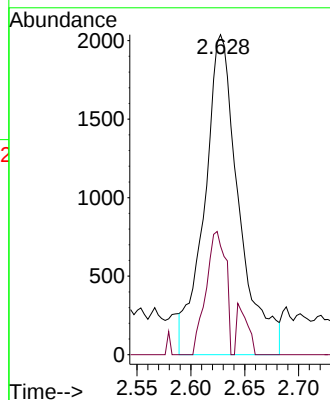
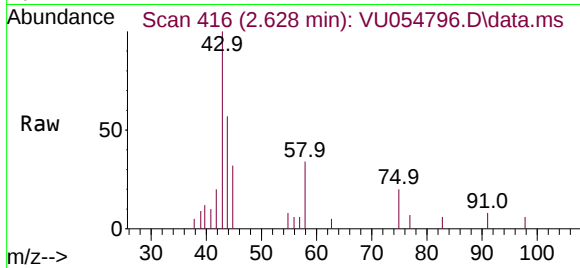
58 19.5 0.0 72.4

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#14

Carbon disulfide

Concen: 1.271 ug/L

RT: 2.782 min Scan# 464

Delta R.T. -0.000 min

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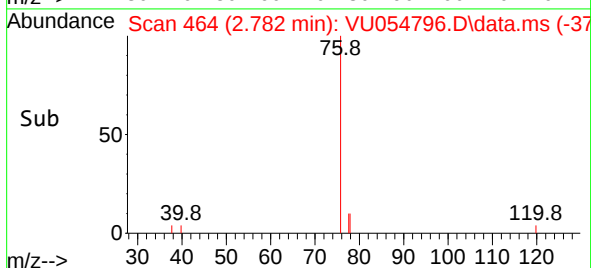
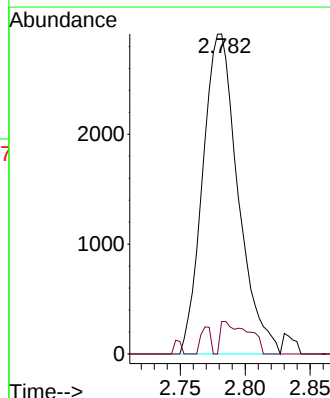
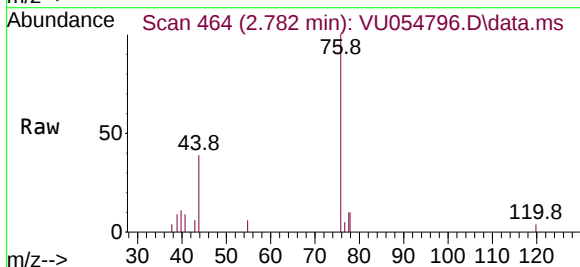
Acq: 17 Jul 2023 16:31

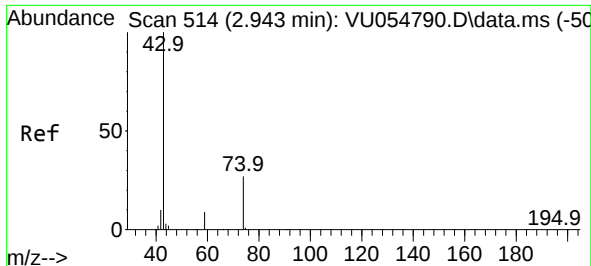
Tgt Ion: 76 Resp: 5506

Ion Ratio Lower Upper

76 100

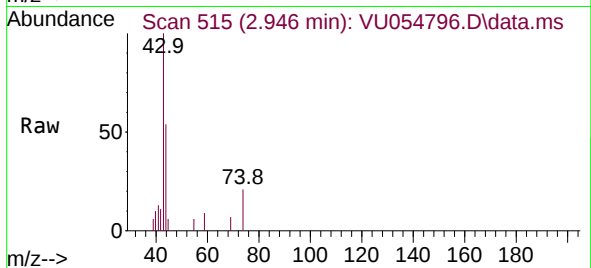
78 9.7 7.4 11.0





#15
Methyl Acetate
Concen: 2.175 ug/L
RT: 2.946 min Scan# 514
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

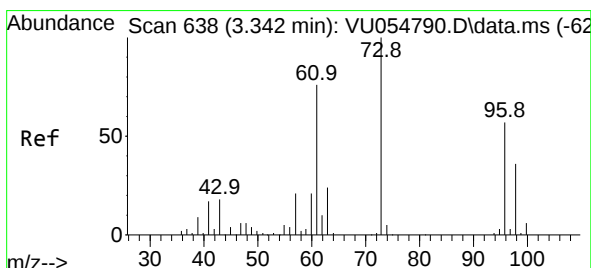
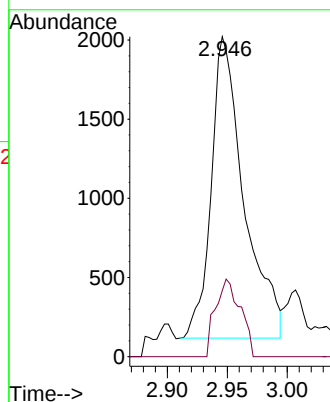
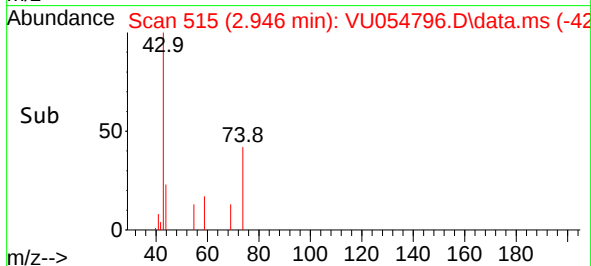
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



Tgt Ion: 43 Resp: 361
Ion Ratio Lower Upper
43 100
74 19.4 21.8 32.8

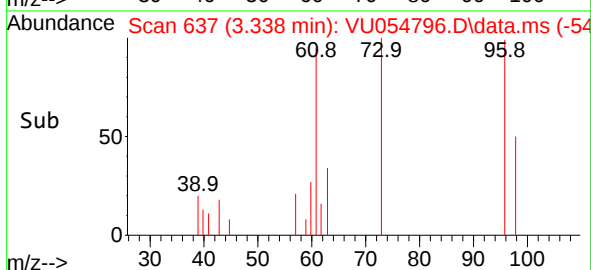
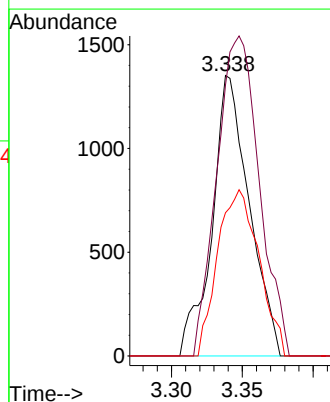
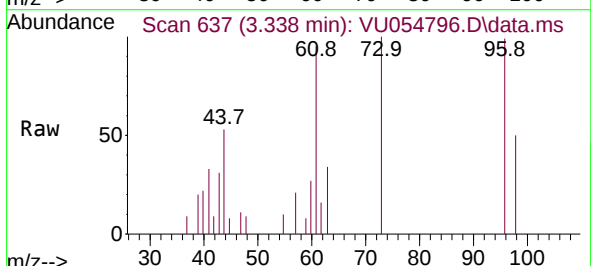
Manual Integrations
APPROVED

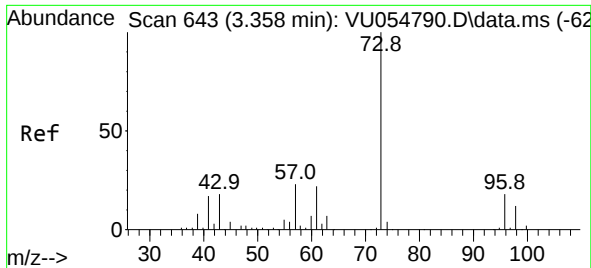
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#17
trans-1,2-Dichloroethene
Concen: 1.607 ug/L
RT: 3.338 min Scan# 637
Delta R.T. -0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion: 96 Resp: 2468
Ion Ratio Lower Upper
96 100
61 112.9 93.2 173.2
98 51.0 44.7 82.9





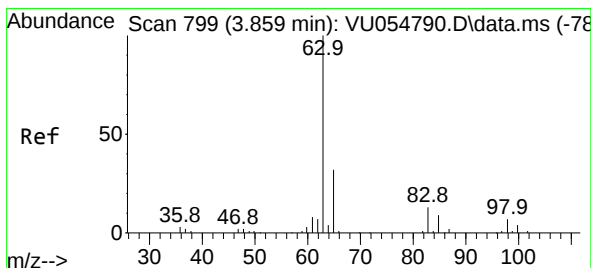
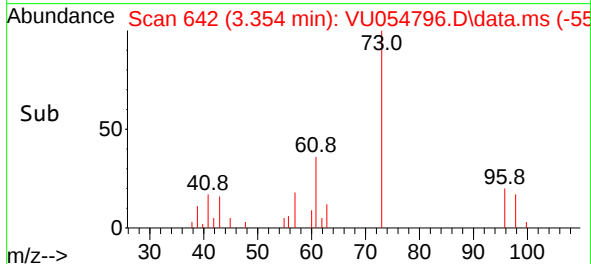
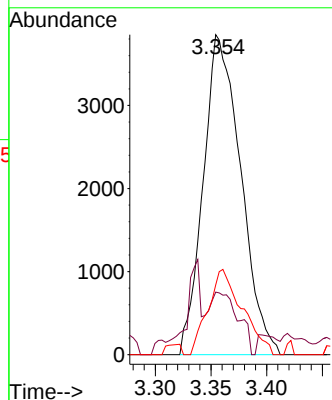
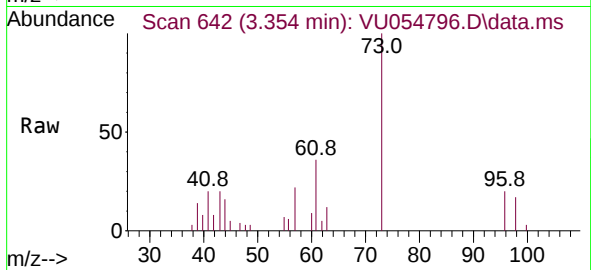
#18
Methyl tert-butyl Ether
Concen: 1.695 ug/L
RT: 3.354 min Scan# 642
Delta R.T. -0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion: 73 Resp: 9009
Ion Ratio Lower Upper
73 100
43 5.1 14.3 21.5
57 24.3 17.4 26.0

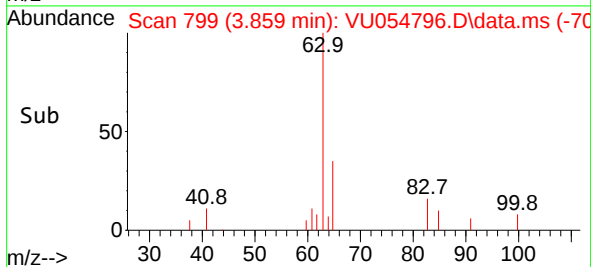
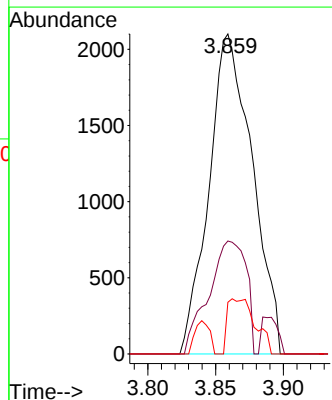
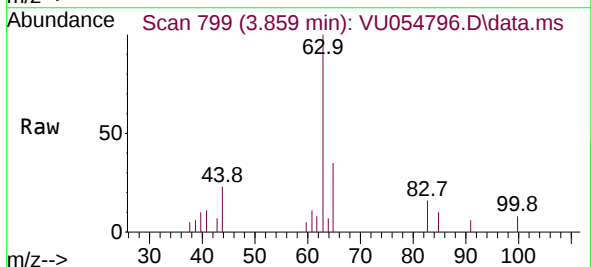
Manual Integrations
APPROVED

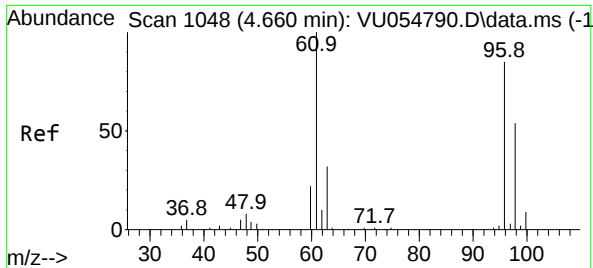
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#19
1,1-Dichloroethane
Concen: 1.597 ug/L
RT: 3.859 min Scan# 799
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

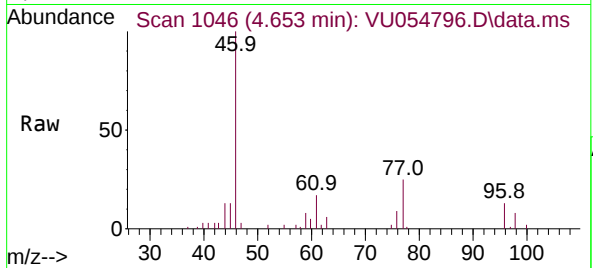
Tgt Ion: 63 Resp: 4680
Ion Ratio Lower Upper
63 100
65 35.3 22.1 41.1
83 16.1 9.4 17.4





#20
cis-1,2-Dichloroethene
Concen: 1.591 ug/L m
RT: 4.653 min Scan# 1046
Delta R.T. -0.007 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

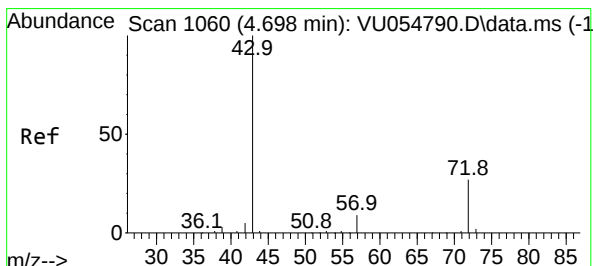
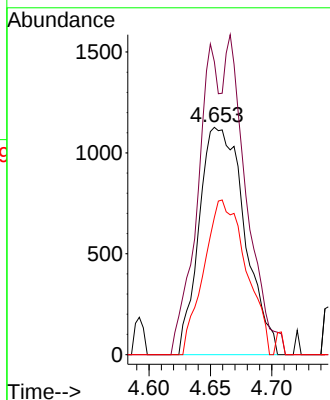
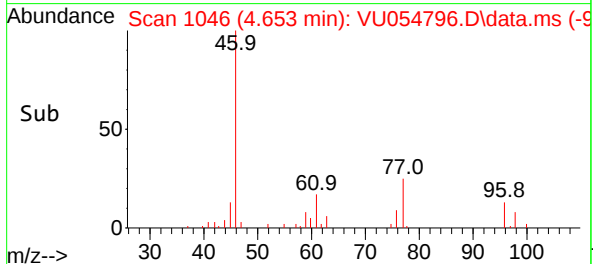
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



Tgt Ion: 96 Resp: 2904
Ion Ratio Lower Upper
96 100
61 128.8 82.7 153.7
98 60.3 44.4 82.5

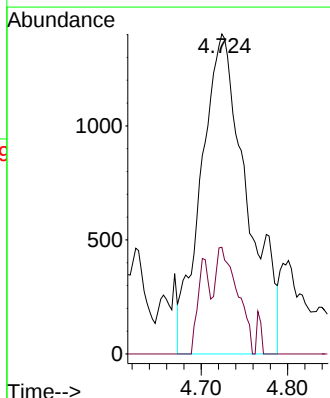
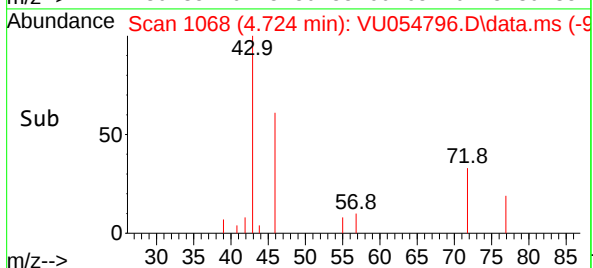
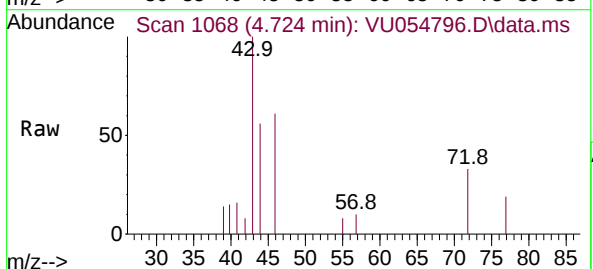
Manual Integrations
APPROVED

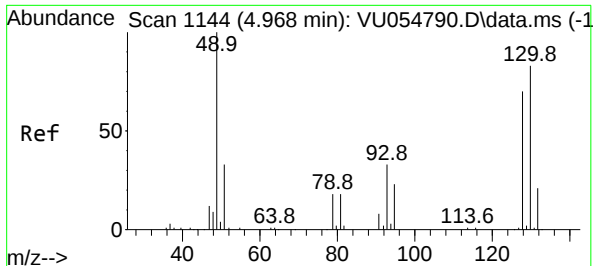
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#22
2-Butanone
Concen: 3.748 ug/L m
RT: 4.724 min Scan# 1068
Delta R.T. 0.026 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

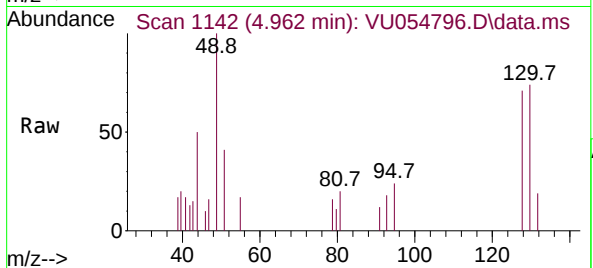
Tgt Ion: 43 Resp: 5156
Ion Ratio Lower Upper
43 100
72 16.3 15.2 45.6





#23
Bromochloromethane
Concen: 1.751 ug/L m
RT: 4.962 min Scan# 1144
Delta R.T. -0.007 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

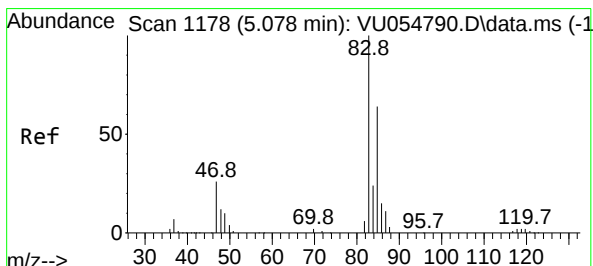
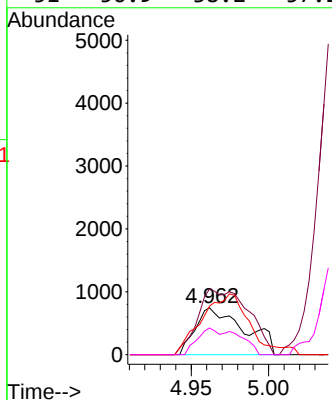
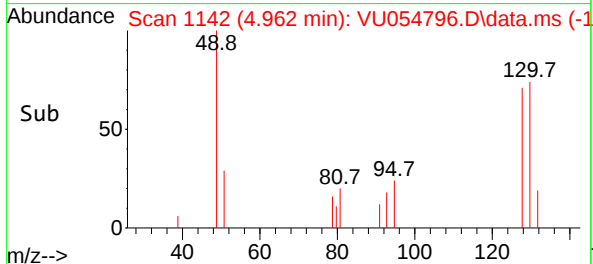
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



Tgt Ion:128 Resp: 1620
Ion Ratio Lower Upper
128 100
49 139.9 100.6 186.8
130 103.9 83.0 154.1
51 56.9 38.2 57.2

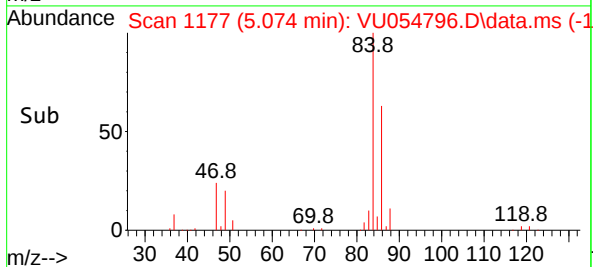
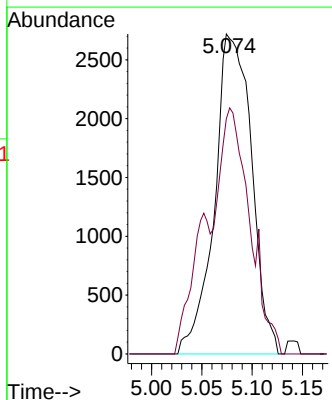
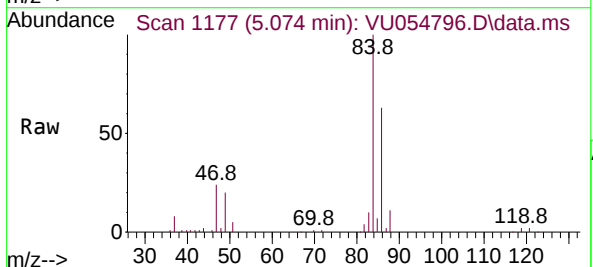
Manual Integrations
APPROVED

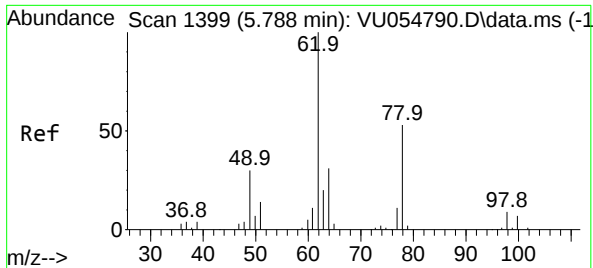
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#25
Chloroform
Concen: 2.261 ug/L
RT: 5.074 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion: 83 Resp: 6948
Ion Ratio Lower Upper
83 100
85 73.5 44.7 82.9





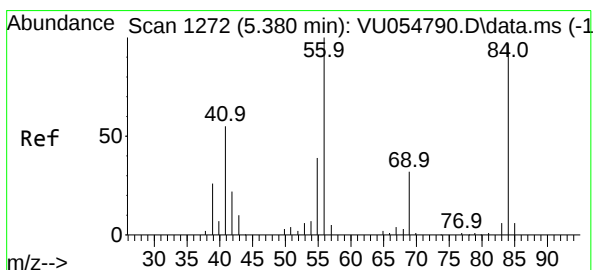
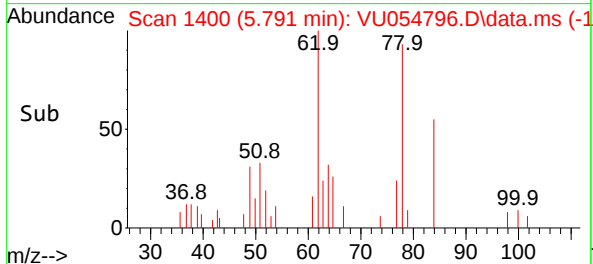
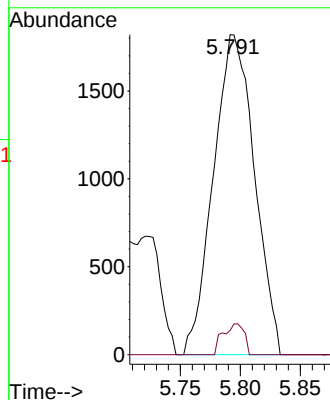
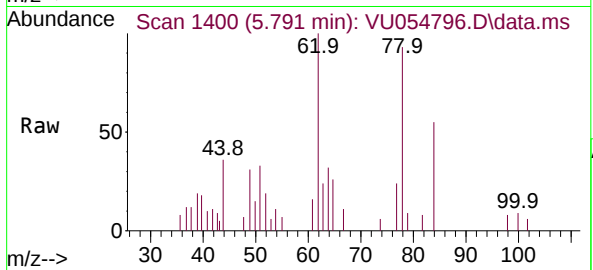
#27
1,2-Dichloroethane
Concen: 1.856 ug/L
RT: 5.791 min Scan# 1400
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT3-2023-05

Tgt Ion: 62 Resp: 433
Ion Ratio Lower Upper
62 100
98 7.5 7.5 11.3

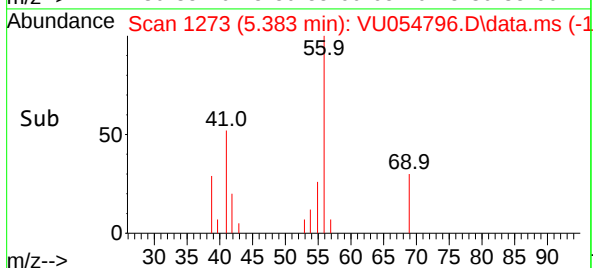
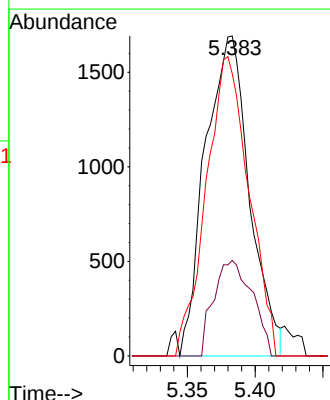
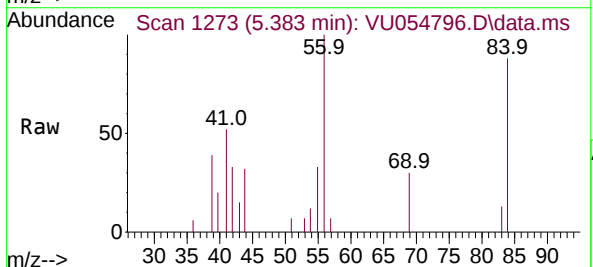
Manual Integrations
APPROVED

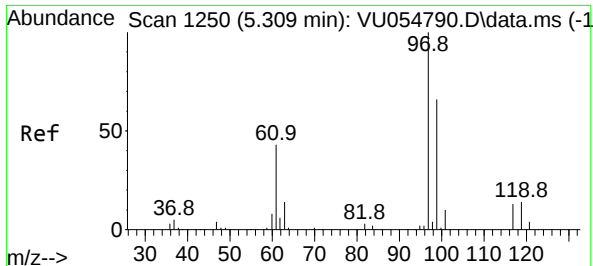
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#29
Cyclohexane
Concen: 1.531 ug/L
RT: 5.383 min Scan# 1273
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

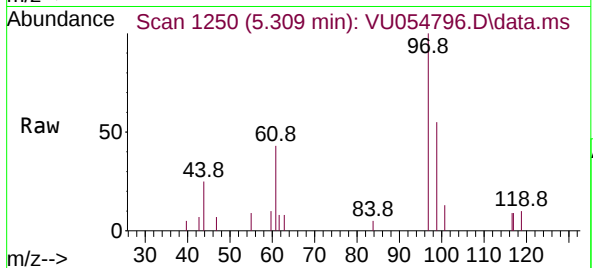
Tgt Ion: 56 Resp: 3823
Ion Ratio Lower Upper
56 100
69 26.0 25.8 38.8
84 90.4 75.9 113.9





#30
1,1,1-Trichloroethane
Concen: 1.850 ug/L
RT: 5.309 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

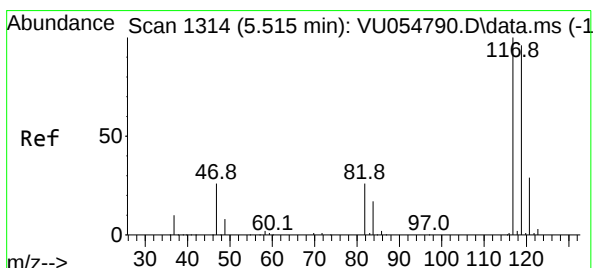
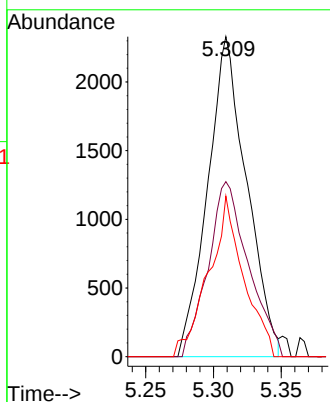
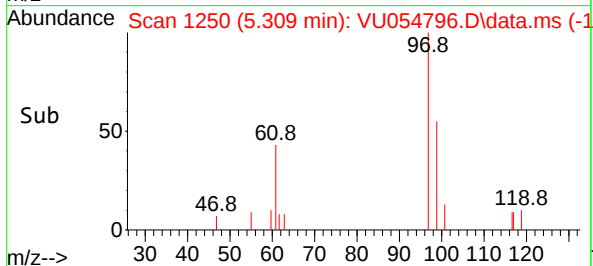
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



Tgt Ion: 97 Resp: 466
Ion Ratio Lower Upper
97 100
99 56.6 52.0 78.0
61 43.4 34.3 51.5

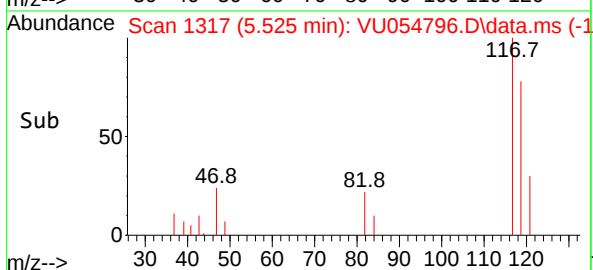
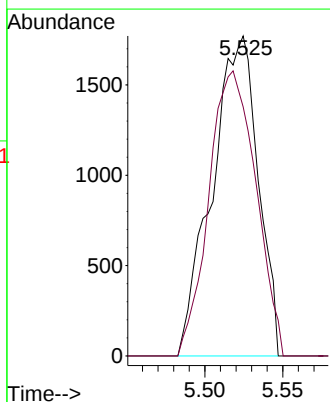
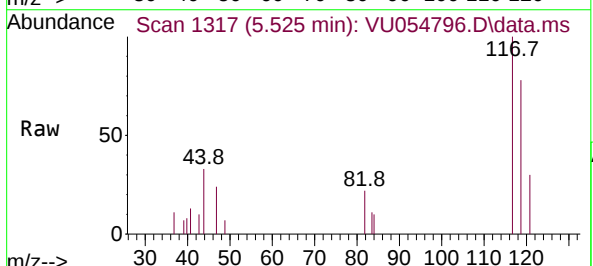
Manual Integrations
APPROVED

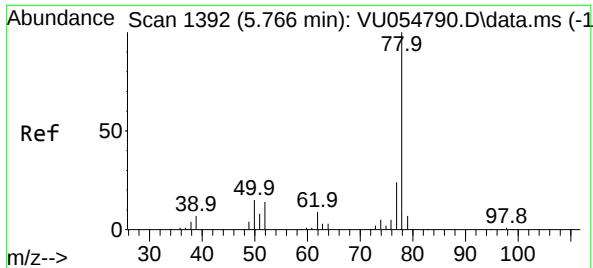
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#31
Carbon tetrachloride
Concen: 1.676 ug/L
RT: 5.525 min Scan# 1317
Delta R.T. 0.009 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion:117 Resp: 3647
Ion Ratio Lower Upper
117 100
119 90.7 77.4 116.2





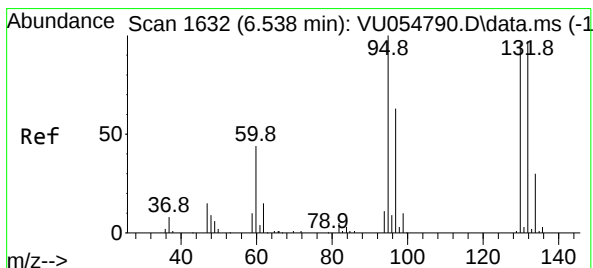
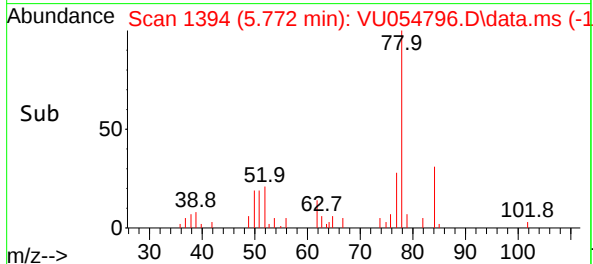
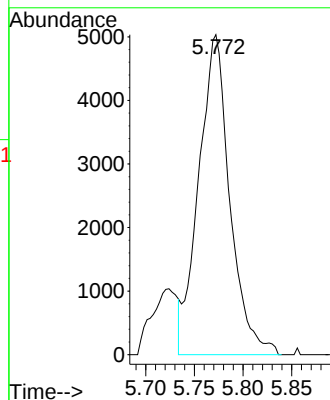
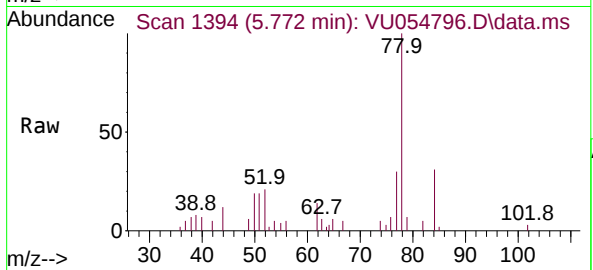
#33
Benzene
Concen: 1.720 ug/L m
RT: 5.772 min Scan# 1118
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion: 78 Resp: 1118

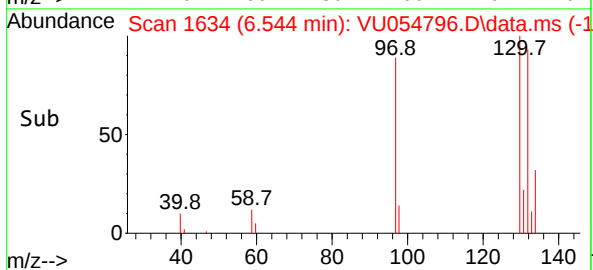
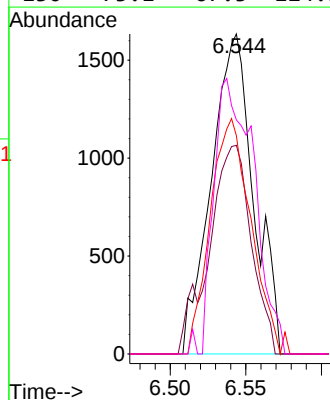
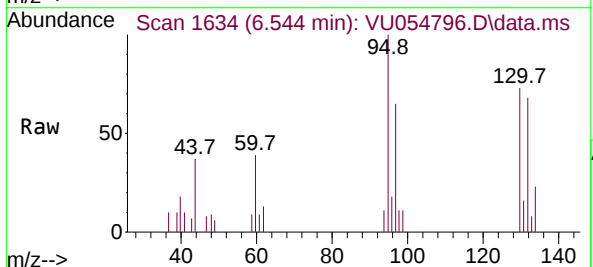
Manual Integrations
APPROVED

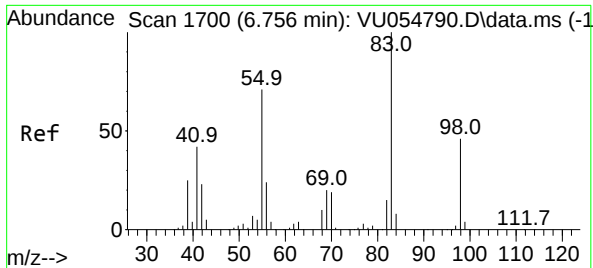
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#34
Trichloroethene
Concen: 1.923 ug/L m
RT: 6.544 min Scan# 1634
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

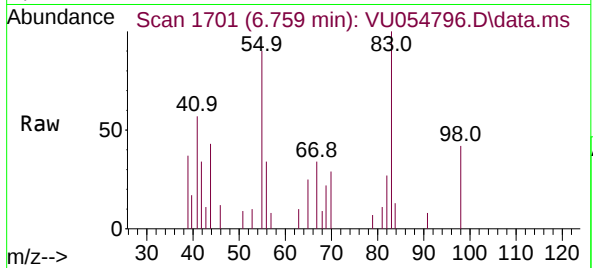
Tgt Ion: 95 Resp: 3184
Ion Ratio Lower Upper
95 100
97 65.2 44.0 81.8
132 68.2 67.9 126.1
130 73.1 67.3 124.9





#35
Methylcyclohexane
Concen: 1.476 ug/L m
RT: 6.759 min Scan# 1710
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

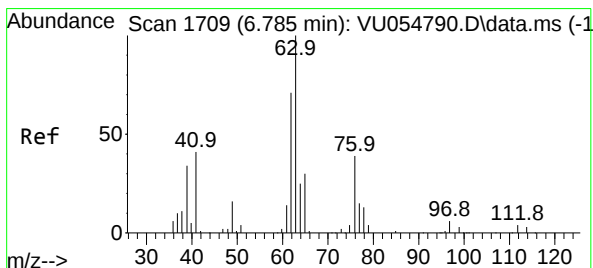
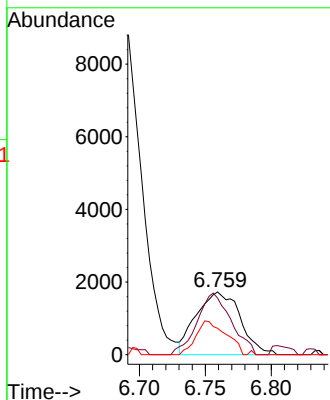
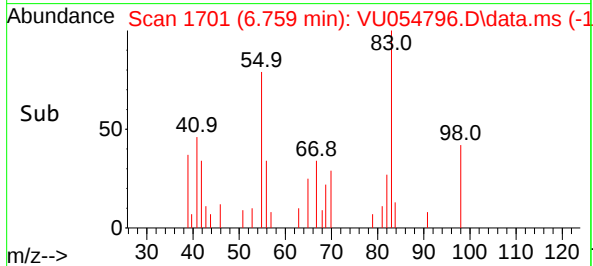
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



Tgt Ion: 83 Resp: 3990
Ion Ratio Lower Upper
83 100
55 76.4 55.8 83.8
98 36.9 38.6 58.0

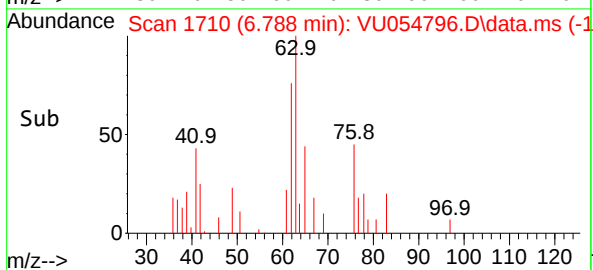
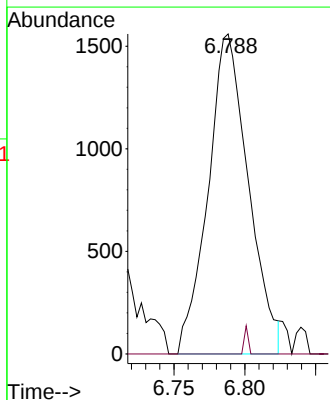
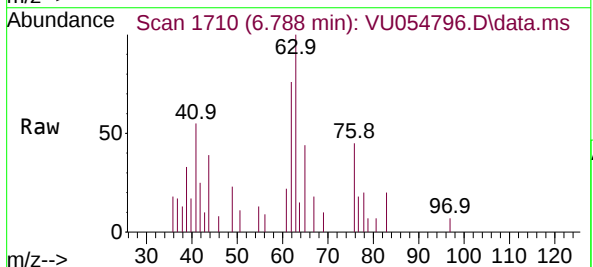
Manual Integrations
APPROVED

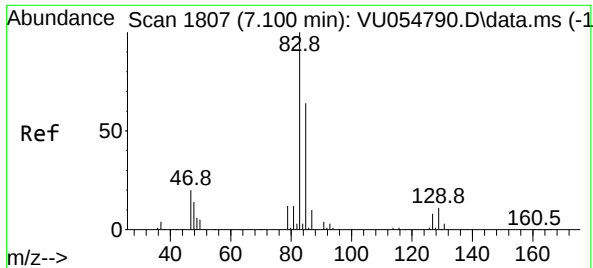
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#37
1,2-Dichloropropane
Concen: 1.725 ug/L
RT: 6.788 min Scan# 1710
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion: 63 Resp: 3087
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#





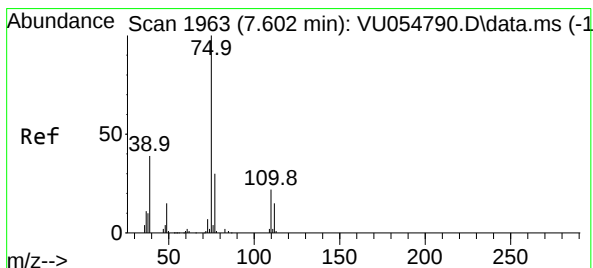
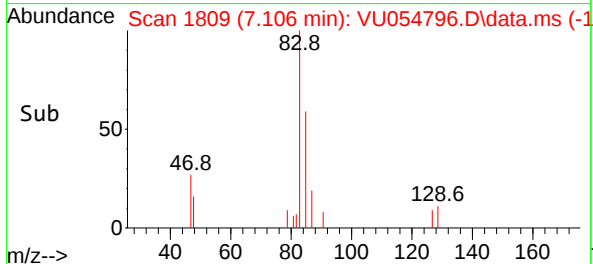
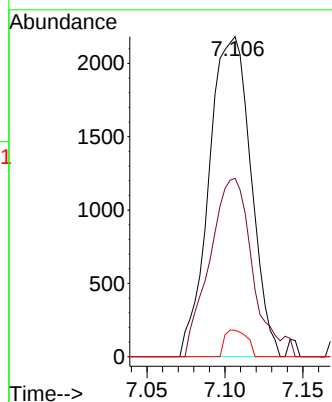
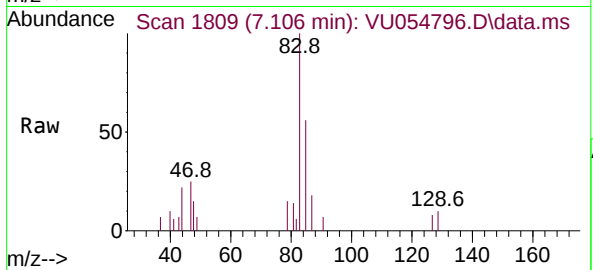
#38
Bromodichloromethane
Concen: 1.774 ug/L
RT: 7.106 min Scan# 1809
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion: 83 Resp: 407
Ion Ratio Lower Upper
83 100
85 55.8 44.9 83.3
127 8.3 7.2 10.8

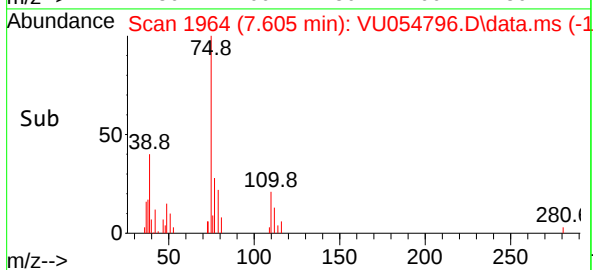
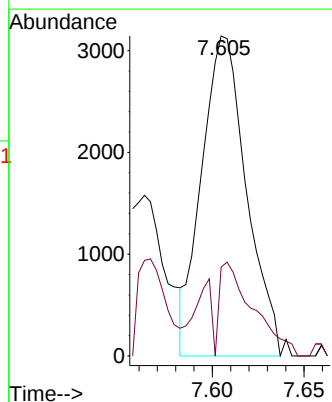
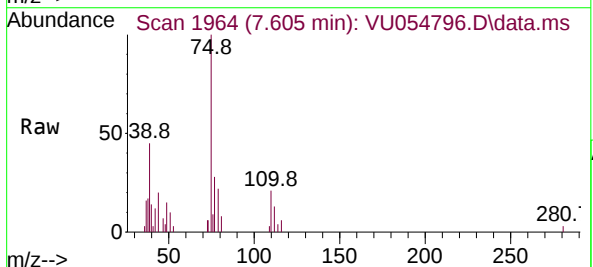
Manual Integrations
APPROVED

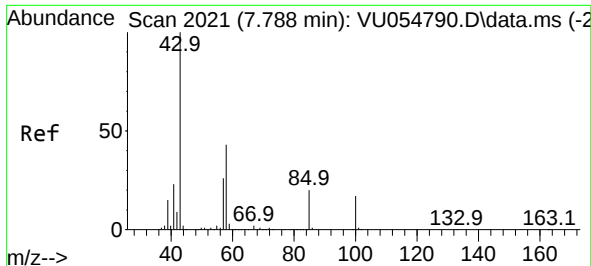
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#39
cis-1,3-Dichloropropene
Concen: 1.810 ug/L
RT: 7.605 min Scan# 1964
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion: 75 Resp: 5341
Ion Ratio Lower Upper
75 100
77 25.5 21.1 39.1





#40

4-Methyl-2-pentanone

Concen: 3.349 ug/L

RT: 7.791 min Scan# 2021

Delta R.T. 0.003 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT3-2023-05

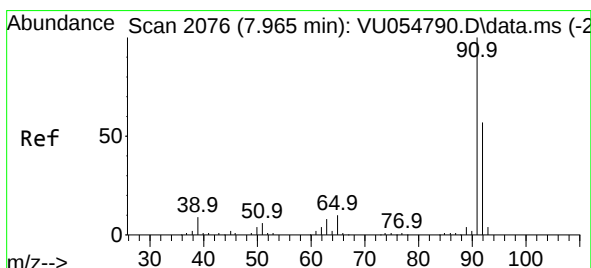
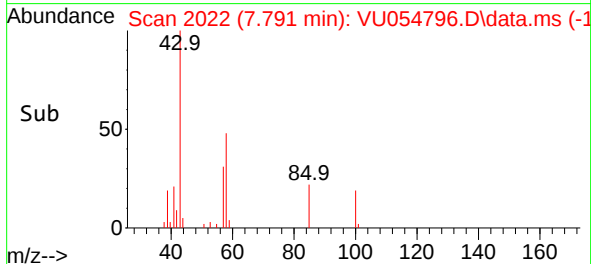
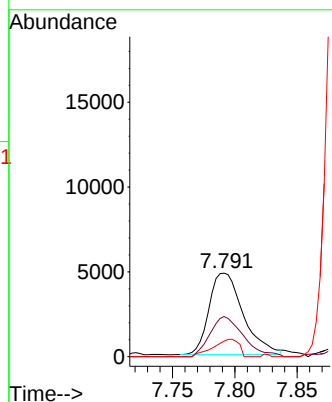
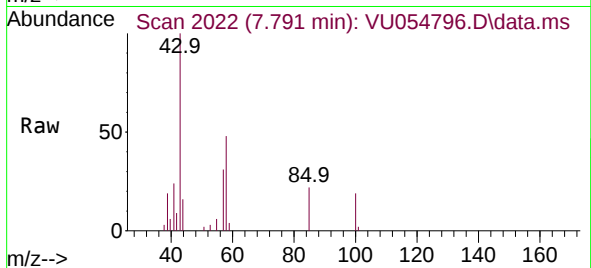
Tgt Ion: 43 Resp: 9175
 Ion Ratio Lower Upper
 43 100
 58 48.0 33.7 50.5
 100 16.1 13.0 19.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#42

Toluene

Concen: 1.608 ug/L

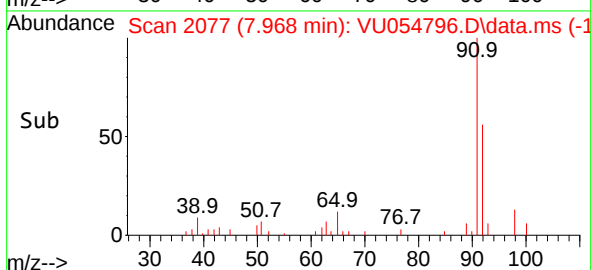
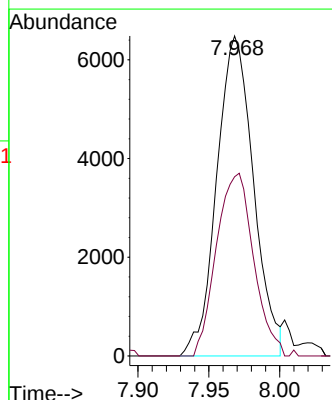
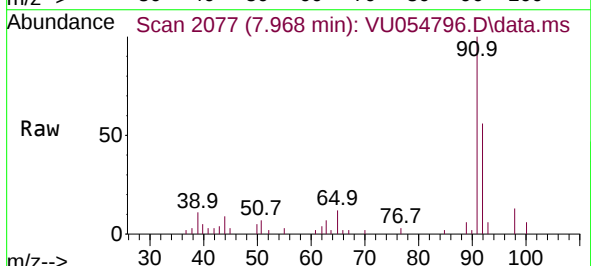
RT: 7.968 min Scan# 2077

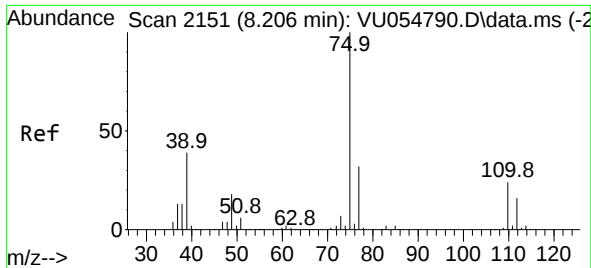
Delta R.T. 0.003 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Tgt Ion: 91 Resp: 11703
 Ion Ratio Lower Upper
 91 100
 92 56.0 40.1 74.5





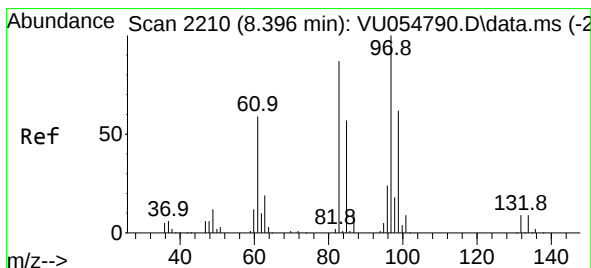
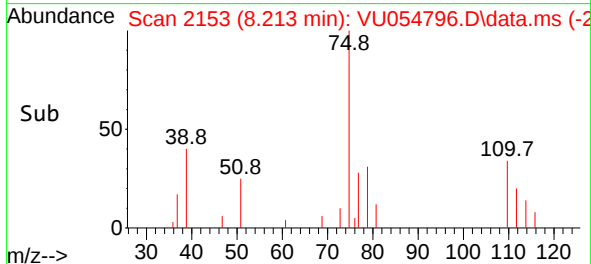
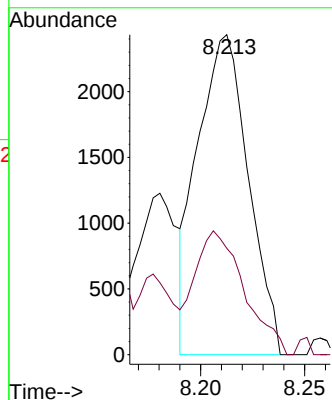
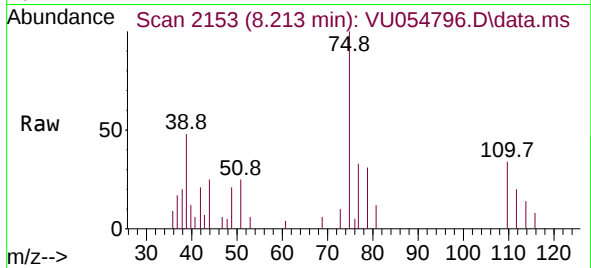
#44
trans-1,3-Dichloropropene
Concen: 1.494 ug/L
RT: 8.213 min Scan# 2151
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion: 75 Resp: 414
Ion Ratio Lower Upper
75 100
77 33.3 22.7 42.1

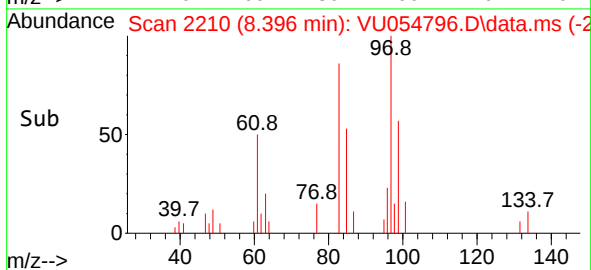
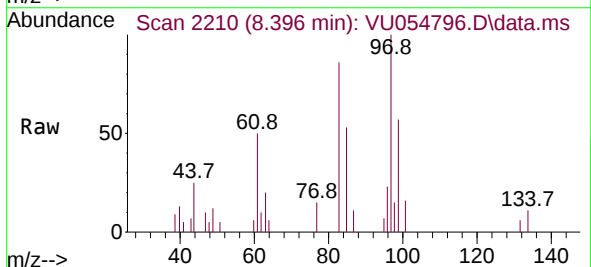
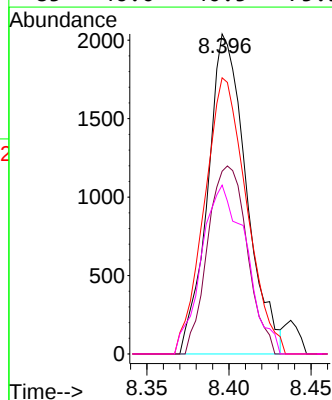
Manual Integrations
APPROVED

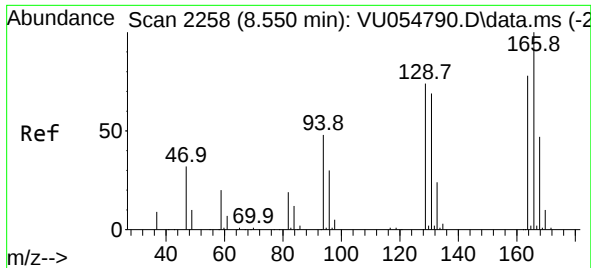
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#45
1,1,2-Trichloroethane
Concen: 1.825 ug/L
RT: 8.396 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

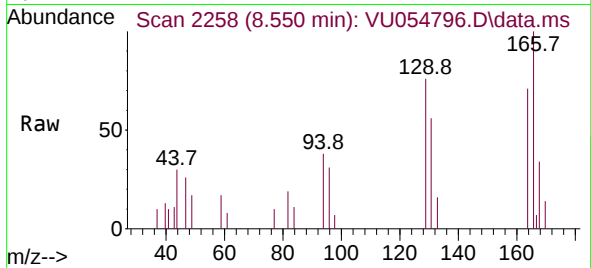
Tgt Ion: 97 Resp: 3329
Ion Ratio Lower Upper
97 100
99 49.8 43.3 80.5
83 75.2 60.6 112.6
85 46.0 40.5 75.3





#46
Tetrachloroethene
Concen: 1.543 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

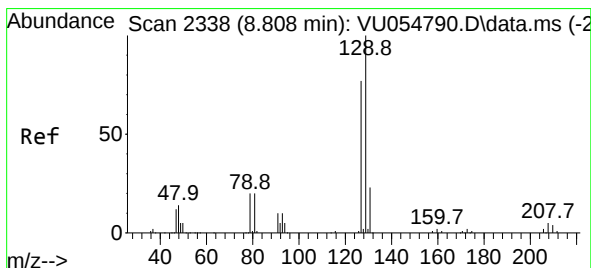
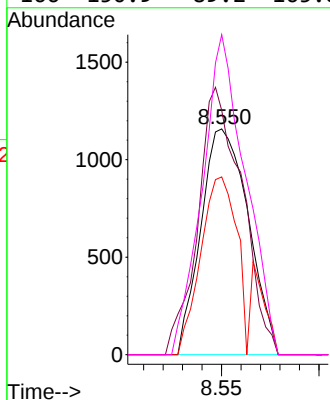
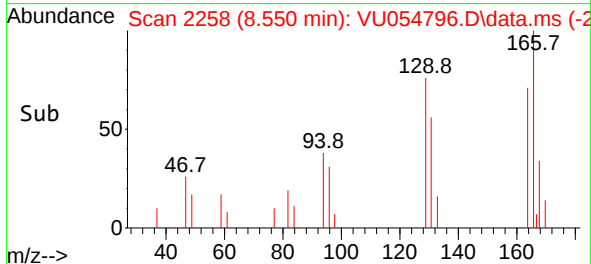
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



Tgt Ion:164 Resp: 1958
Ion Ratio Lower Upper
164 100
129 108.2 66.2 123.0
131 78.8 61.9 115.1
166 150.9 89.2 165.8

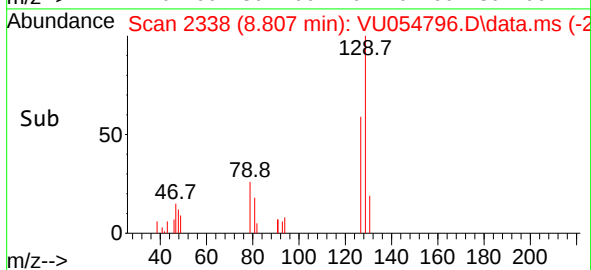
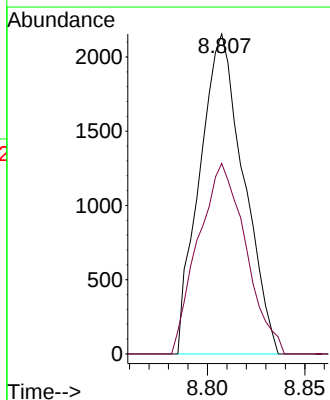
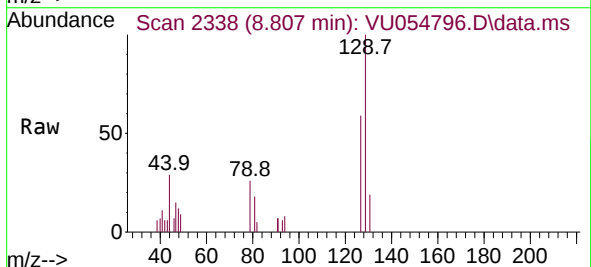
Manual Integrations
APPROVED

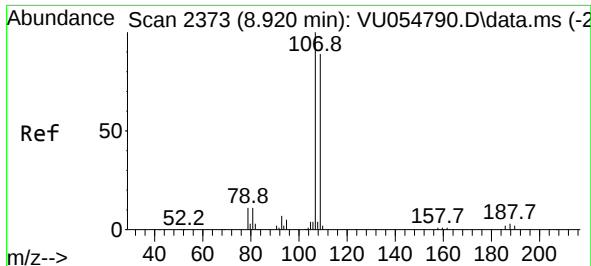
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#49
Dibromochloromethane
Concen: 1.801 ug/L
RT: 8.807 min Scan# 2338
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion:129 Resp: 3384
Ion Ratio Lower Upper
129 100
127 59.5 54.4 101.0





#50

1,2-Dibromoethane

Concen: 1.731 ug/L

RT: 8.923 min Scan# 2373

Delta R.T. 0.003 min

Lab File: VU054796.D

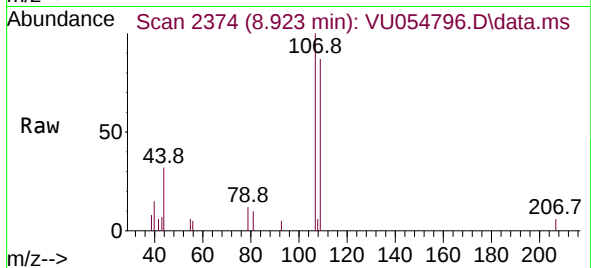
Acq: 17 Jul 2023 16:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT3-2023-05



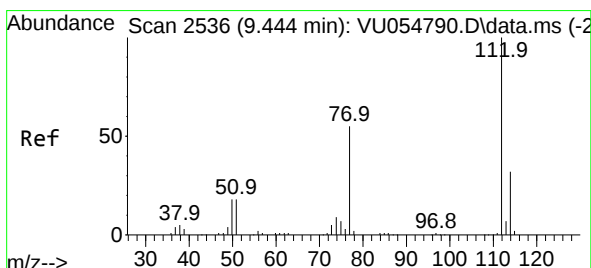
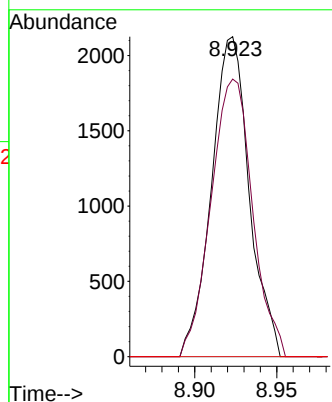
Tgt Ion	Ratio	Lower	Upper
107	100		
109	86.7	62.5	116.1
188	0.0	2.6	4.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#51

Chlorobenzene

Concen: 1.643 ug/L

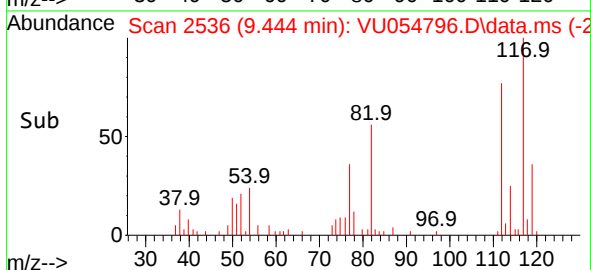
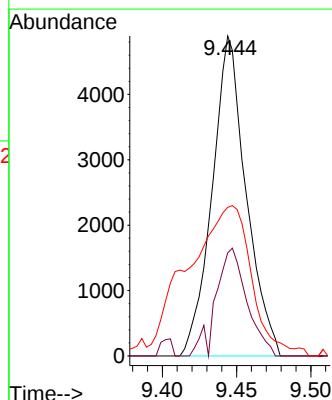
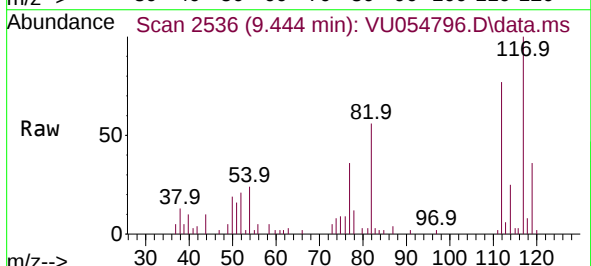
RT: 9.444 min Scan# 2536

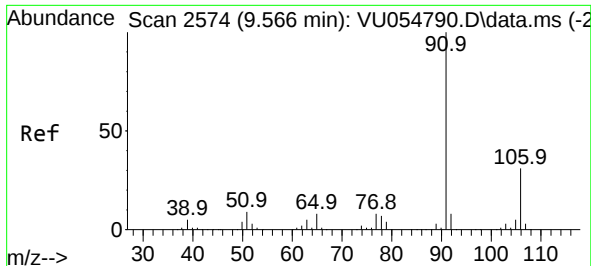
Delta R.T. -0.000 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	29.7	22.3	41.5
77	42.9	44.2	66.4





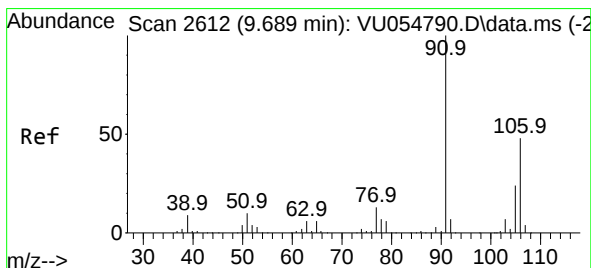
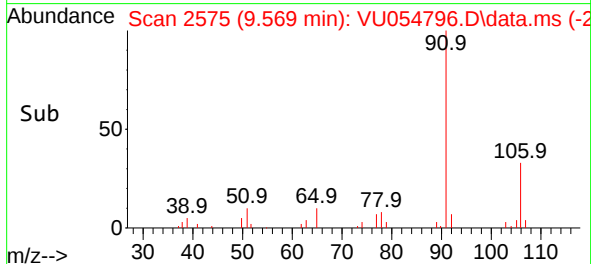
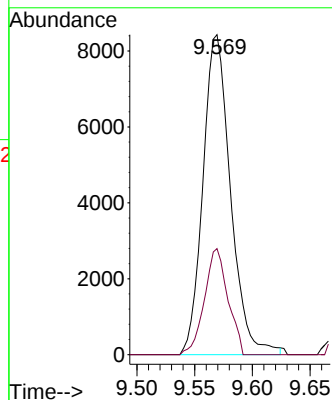
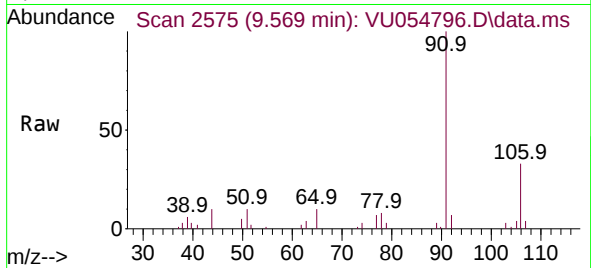
#52
Ethylbenzene
Concen: 1.666 ug/L
RT: 9.569 min Scan# 2102
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion: 91 Resp: 1402
Ion Ratio Lower Upper
91 100
106 37.5 23.5 43.7

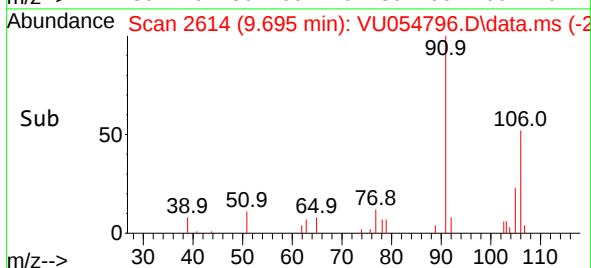
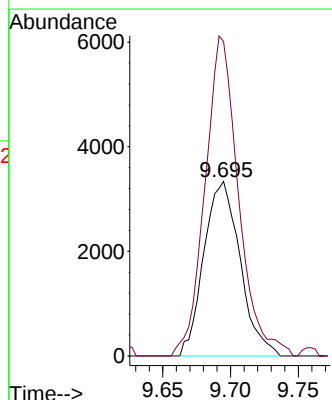
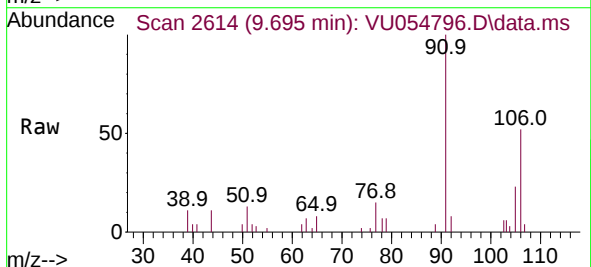
Manual Integrations
APPROVED

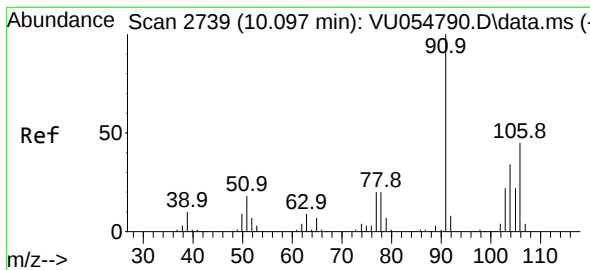
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#53
m,p-Xylene
Concen: 1.938 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion:106 Resp: 6209
Ion Ratio Lower Upper
106 100
91 180.2 133.3 247.7





#54

o-Xylene

Concen: 1.548 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT3-2023-05

Tgt Ion:106 Resp: 5038

Ion Ratio Lower Upper

106 100

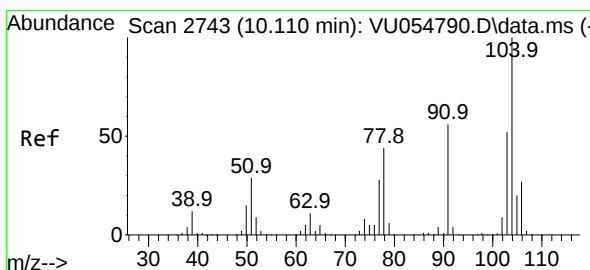
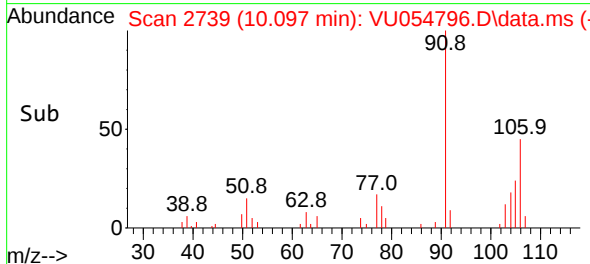
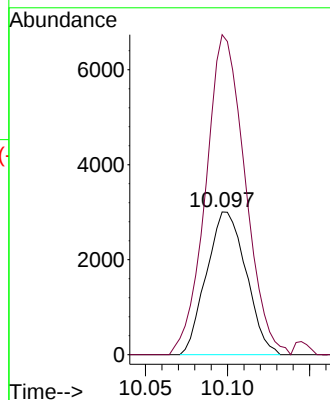
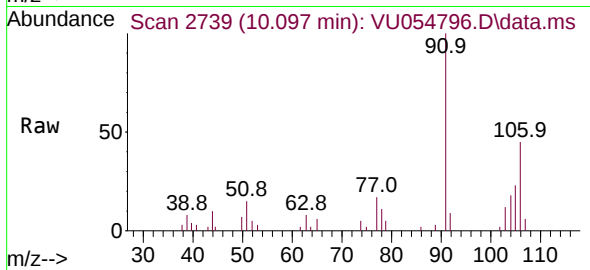
91 213.5 142.0 263.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#55

Styrene

Concen: 1.581 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. 0.003 min

Lab File: VU054796.D

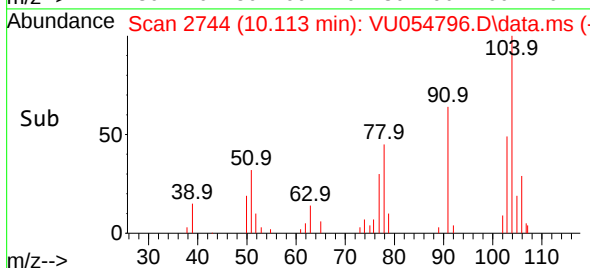
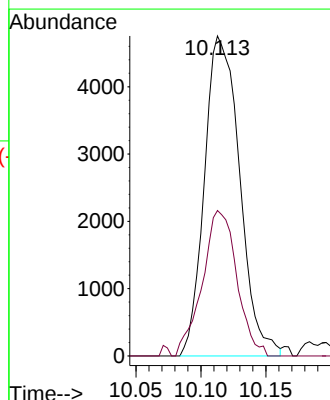
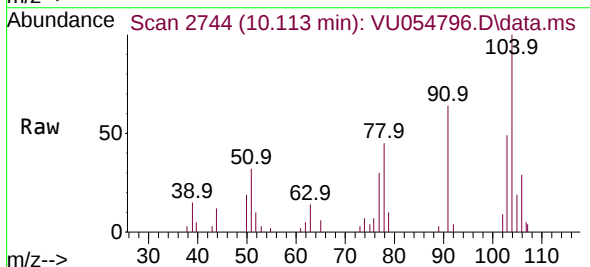
Acq: 17 Jul 2023 16:31

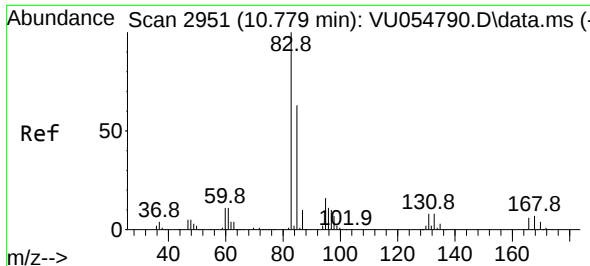
Tgt Ion:104 Resp: 8962

Ion Ratio Lower Upper

104 100

78 55.1 30.7 57.1





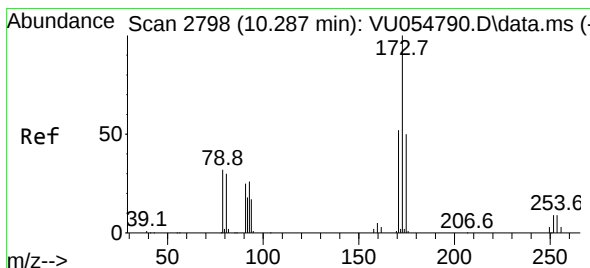
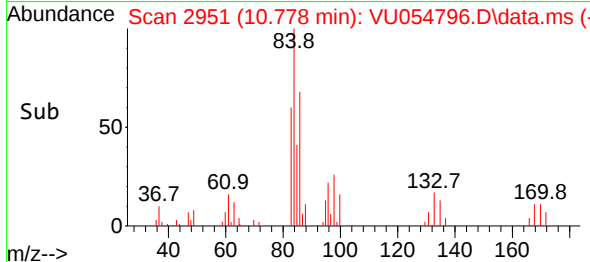
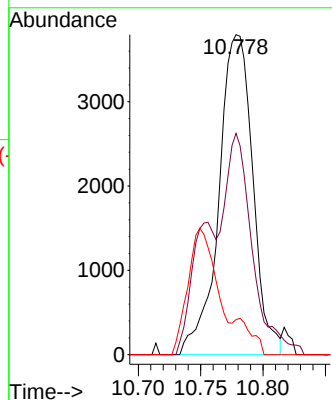
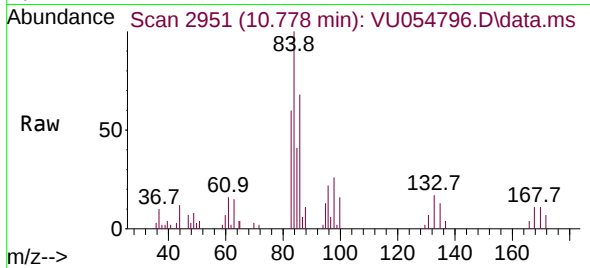
#57
1,1,2,2-Tetrachloroethane
Concen: 2.000 ug/L
RT: 10.778 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT3-2023-05

Tgt Ion: 83 Resp: 720
Ion Ratio Lower Upper
83 100
85 69.1 43.8 81.4
131 11.0 8.7 13.1

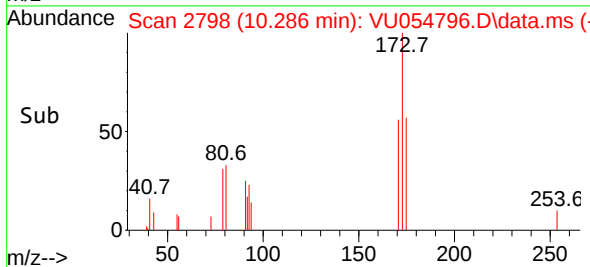
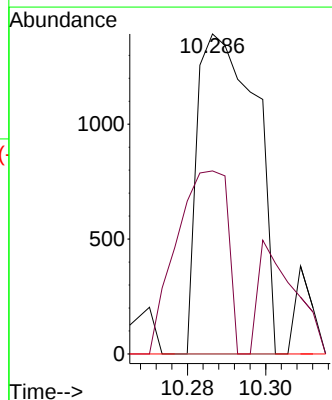
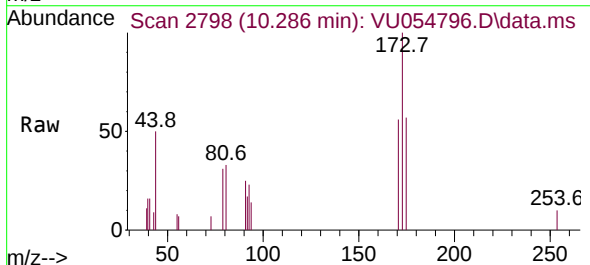
Manual Integrations
APPROVED

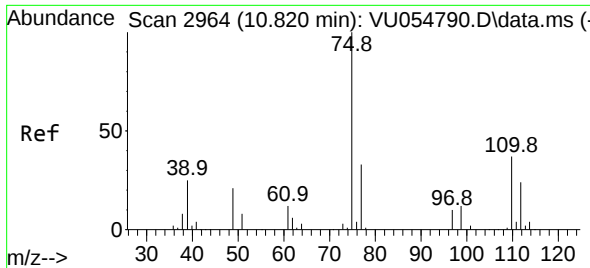
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#59
Bromoform
Concen: 0.965 ug/L m
RT: 10.286 min Scan# 2798
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion:173 Resp: 1435
Ion Ratio Lower Upper
173 100
175 50.8 38.8 58.2
254 0.0 2.4 3.6#





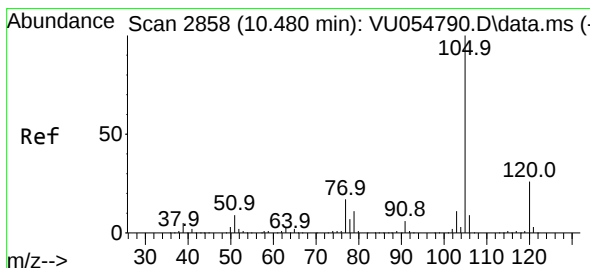
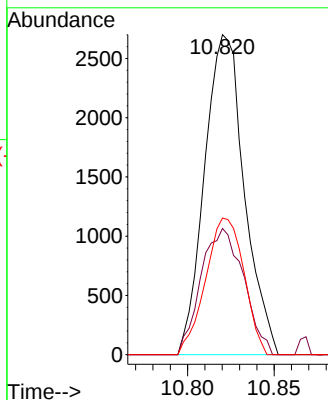
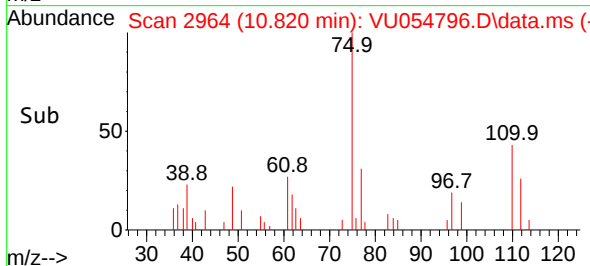
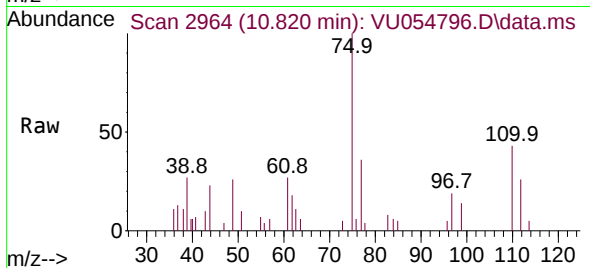
#60
1,2,3-Trichloropropane
Concen: 1.861 ug/L
RT: 10.820 min Scan# 2964
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT3-2023-05

Tgt Ion: 75 Resp: 431
Ion Ratio Lower Upper
75 100
77 42.3 26.2 39.4
110 41.1 29.9 44.9

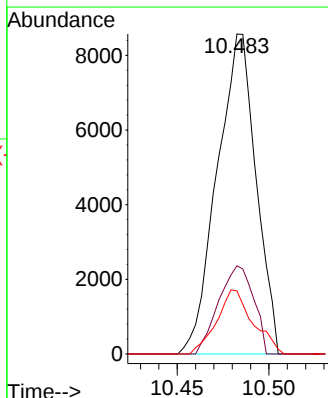
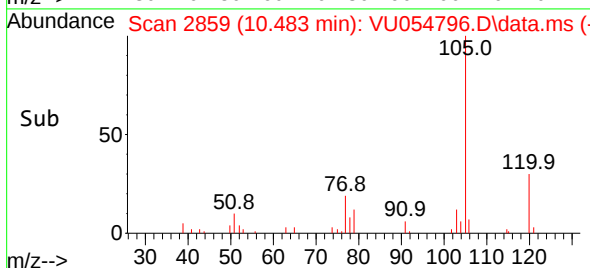
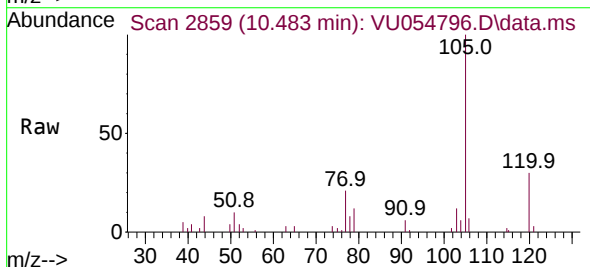
Manual Integrations
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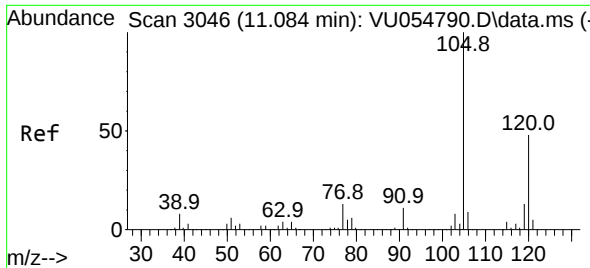
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#61
Isopropylbenzene
Concen: 1.607 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Tgt Ion:105 Resp: 12625
Ion Ratio Lower Upper
105 100
120 24.7 21.4 32.0
77 18.6 12.8 19.2





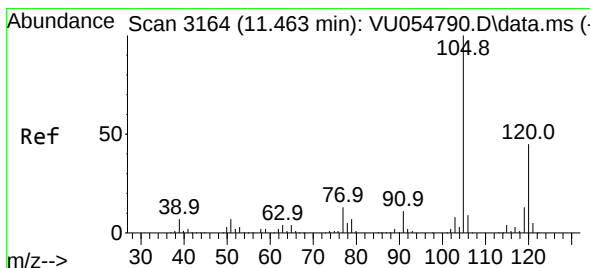
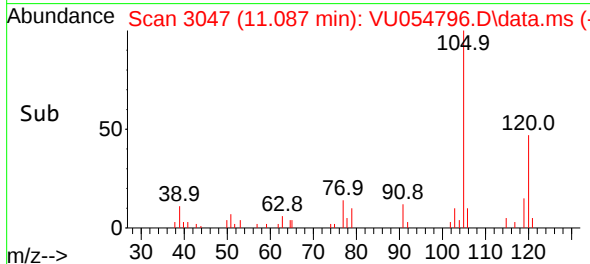
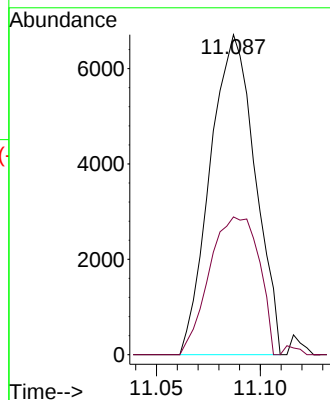
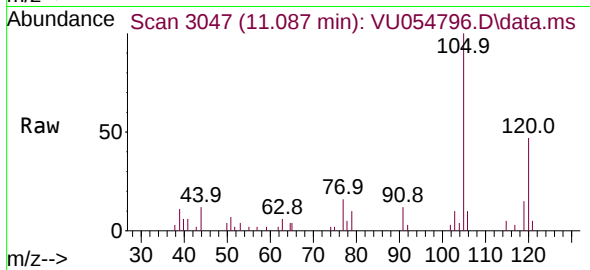
#62
1,3,5-Trimethylbenzene
Concen: 1.559 ug/L
RT: 11.087 min Scan# 3046
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05

Tgt Ion:105 Resp: 1008
Ion Ratio Lower Upper
105 100
120 47.5 38.0 57.0

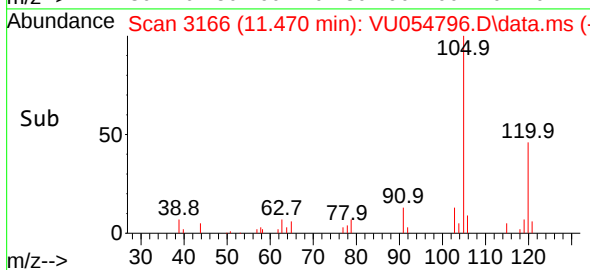
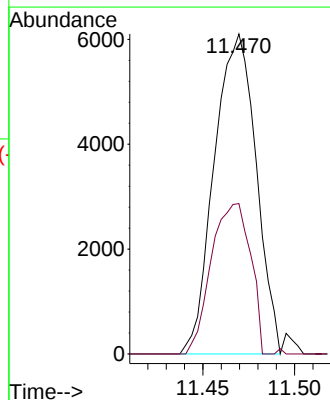
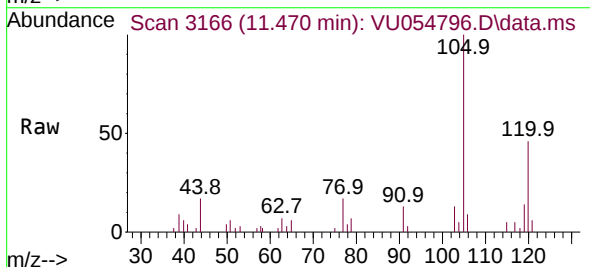
Manual Integrations
APPROVED

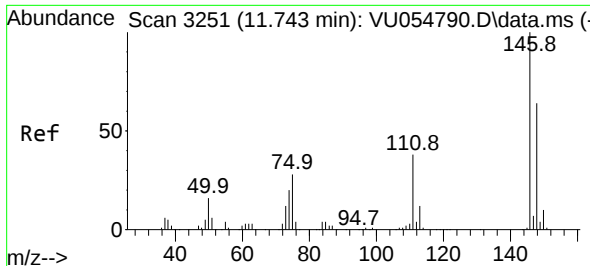
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#63
1,2,4-Trimethylbenzene
Concen: 1.511 ug/L
RT: 11.470 min Scan# 3166
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

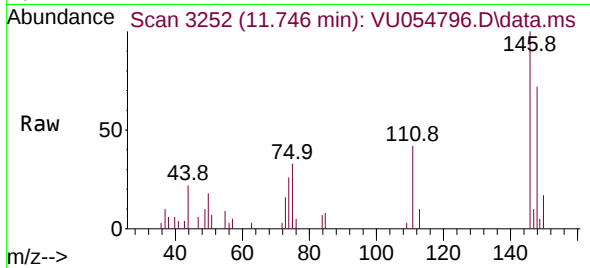
Tgt Ion:105 Resp: 9686
Ion Ratio Lower Upper
105 100
120 44.0 36.2 54.2





#64
1,3-Dichlorobenzene
Concen: 1.592 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

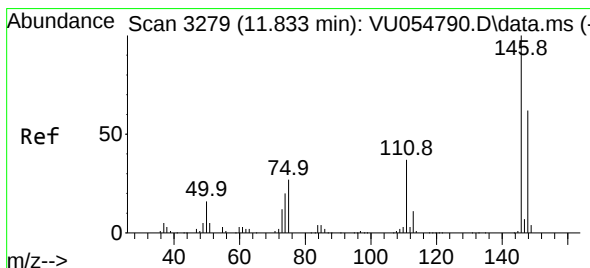
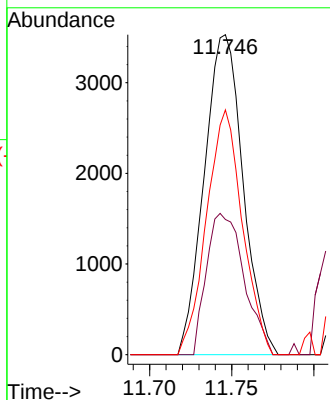
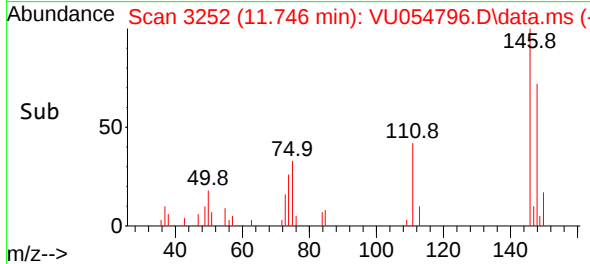
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



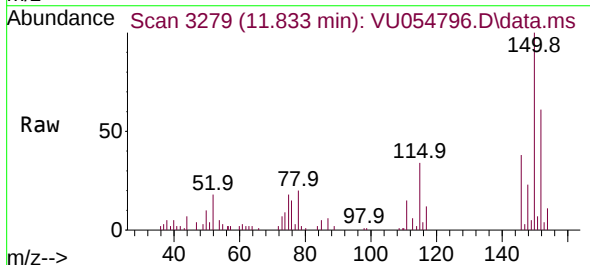
Tgt Ion:146 Resp: 580
Ion Ratio Lower Upper
146 100
111 42.2 25.2 46.8
148 76.5 44.4 82.4

Manual Integrations
APPROVED

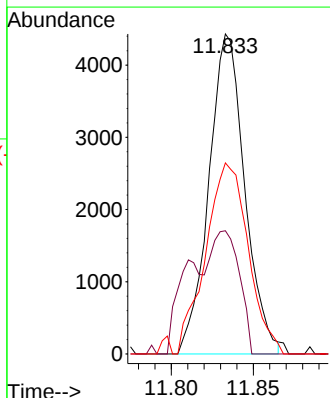
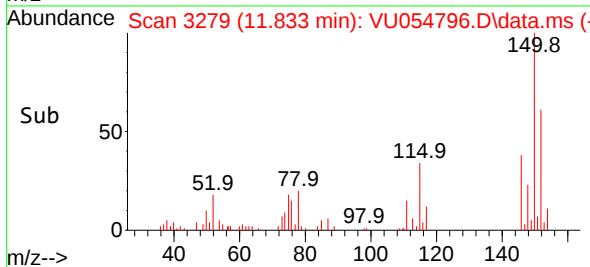
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

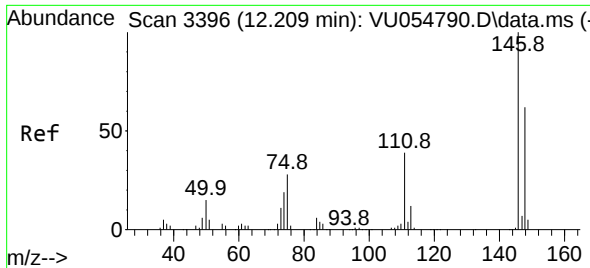


#65
1,4-Dichlorobenzene
Concen: 1.838 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31



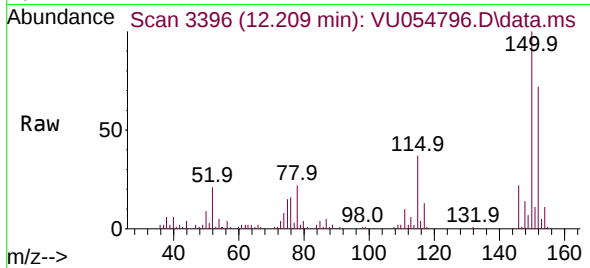
Tgt Ion:146 Resp: 6744
Ion Ratio Lower Upper
146 100
111 38.5 24.1 44.8
148 59.7 41.0 76.2





#67
1,2-Dichlorobenzene
Concen: 1.811 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. -0.000 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31

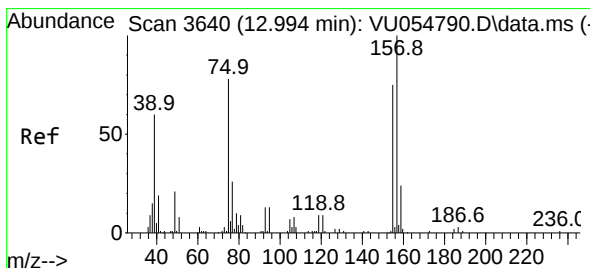
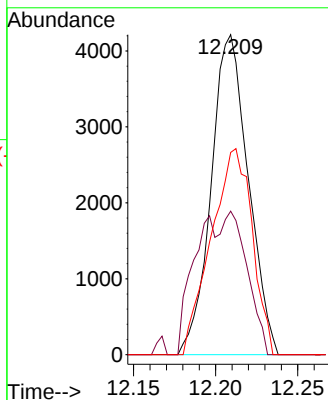
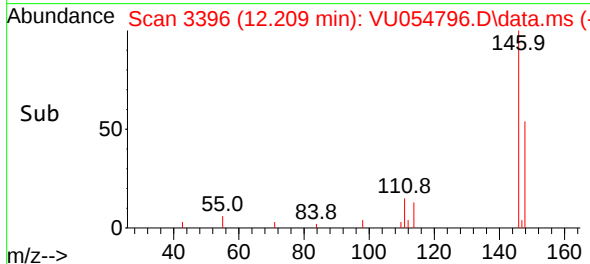
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT3-2023-05



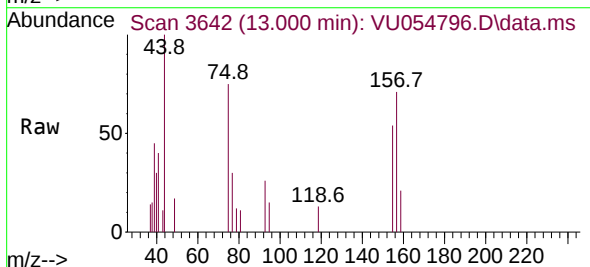
Tgt Ion:146 Resp: 6628
Ion Ratio Lower Upper
146 100
111 42.1 31.5 47.3
148 90.4 53.5 80.3

Manual Integrations
APPROVED

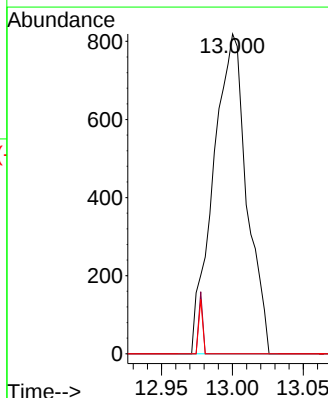
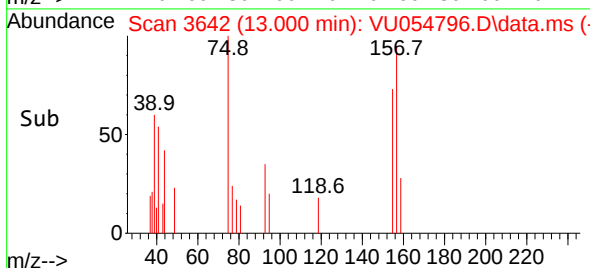
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

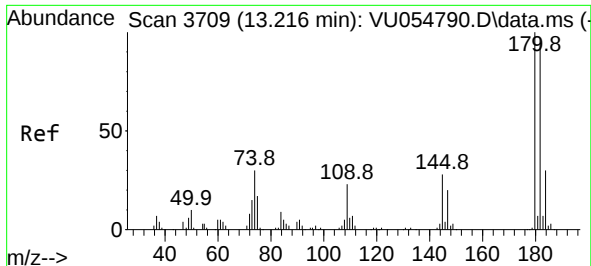


#68
1,2-Dibromo-3-chloropropane
Concen: 2.174 ug/L
RT: 13.000 min Scan# 3642
Delta R.T. 0.006 min
Lab File: VU054796.D
Acq: 17 Jul 2023 16:31



Tgt Ion: 75 Resp: 1348
Ion Ratio Lower Upper
75 100
155 0.0 80.6 121.0#
157 0.0 106.5 159.7#





#69

1,3,5-Trichlorobenzene

Concen: 1.350 ug/L

RT: 13.225 min Scan# 31

Delta R.T. 0.009 min

Lab File: VU054796.D

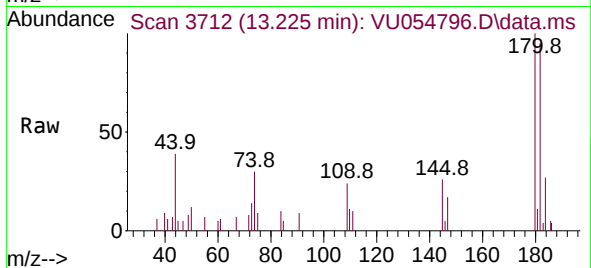
Acq: 17 Jul 2023 16:31

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT3-2023-05



Tgt Ion:180 Resp: 3298

Ion Ratio Lower Upper

180 100

182 55.0 76.7 115.1

184 0.0 23.4 35.0

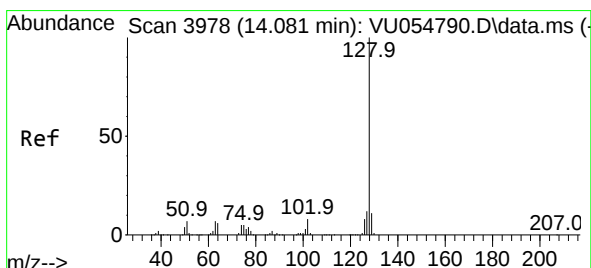
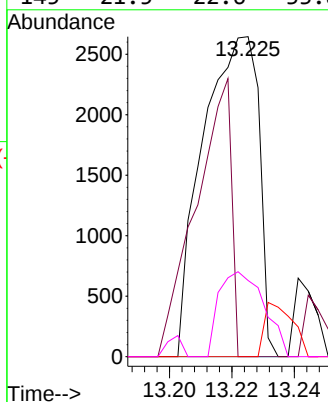
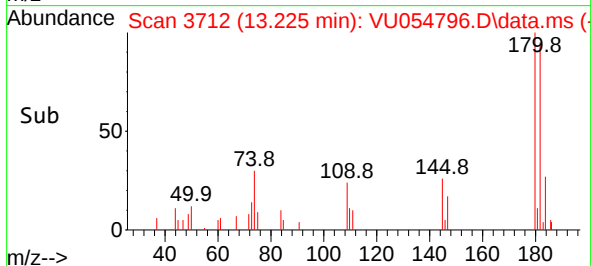
145 21.5 22.6 33.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#71

Naphthalene

Concen: 1.997 ug/L

RT: 14.090 min Scan# 3981

Delta R.T. 0.009 min

Lab File: VU054796.D

Acq: 17 Jul 2023 16:31

Tgt Ion:128 Resp: 13819

Ion Ratio Lower Upper

128 100

127 8.2 10.0 15.0#

129 6.1 8.6 13.0#

