

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021423\
 Data File : VU053099.D
 Acq On : 14 Feb 2023 17:14
 Operator : JC/MD
 Sample : 01378-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2023-02

Quant Time: Feb 15 01:11:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM021423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 15 00:41:46 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa Patel 02/15/2023
 Supervised By :Mahesh Dadoda 02/15/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	250627	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	230974	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	113810	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	105202	45.694	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	91.380%		
7) Chloroethane-d5	1.913	69	87986	45.154	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.300%		
11) 1,1-Dichloroethene-d2	2.566	63	148785	37.675	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	75.360%		
21) 2-Butanone-d5	4.627	46	126303	104.966	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	104.970%		
24) Chloroform-d	5.058	84	196037	48.268	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.540%		
26) 1,2-Dichloroethane-d4	5.698	65	126062	48.809	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.620%		
32) Benzene-d6	5.723	84	405796	49.249	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.500%		
36) 1,2-Dichloropropane-d6	6.688	67	133819	49.714	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	99.420%		
41) Toluene-d8	7.894	98	374670	49.109	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	98.220%		
43) trans-1,3-Dichloroprop...	8.177	79	67556	49.277	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	98.560%		
47) 2-Hexanone-d5	8.630	63	93355	100.397	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	100.400%		
56) 1,1,2,2-Tetrachloroeth...	10.752	84	175416	48.963	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	97.920%		
66) 1,2-Dichlorobenzene-d4	12.189	152	124747	49.305	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	98.620%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.386	85	13317	5.193	ug/L	96
3) Chloromethane	1.521	50	12413	4.966	ug/L	99
5) Vinyl chloride	1.604	62	13600	5.076	ug/L	89
6) Bromomethane	1.858	94	8267	4.854	ug/L	98
8) Chloroethane	1.932	64	7794	4.779	ug/L	99
9) Trichlorofluoromethane	2.138	101	17236	4.948	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.579	101	10119	5.195	ug/L	96
12) 1,1-Dichloroethene	2.579	96	10286	5.581	ug/L #	1
13) Acetone	2.640	43	8701	11.430	ug/L	92
14) Carbon disulfide	2.791	76	30260	5.066	ug/L	100
15) Methyl Acetate	2.948	43	8019	4.888	ug/L	100
16) Methylene chloride	3.042	84	11523	5.439	ug/L	98
17) trans-1,2-Dichloroethene	3.350	96	9579	5.116	ug/L	98
18) Methyl tert-butyl Ether	3.357	73	30719	4.883	ug/L	99
19) 1,1-Dichloroethane	3.868	63	17978	4.895	ug/L	96
20) cis-1,2-Dichloroethene	4.665	96	10658	4.888	ug/L	93
22) 2-Butanone	4.710	43	13245m	11.451	ug/L	
23) Bromochloromethane	4.971	128	5063	4.947	ug/L	96
25) Chloroform	5.087	83	18985	5.072	ug/L	94

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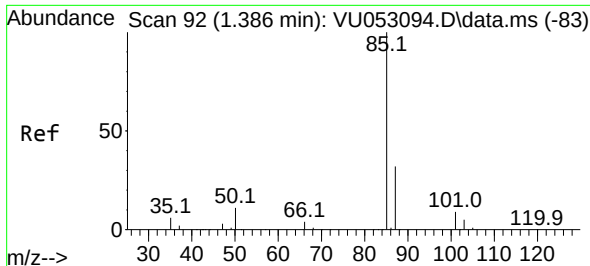
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM021423WMA.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.791	62	15128	5.208	ug/L #	94
29) Cyclohexane	5.386	56	15310	4.486	ug/L	96
30) 1,1,1-Trichloroethane	5.312	97	14977	4.641	ug/L	98
31) Carbon tetrachloride	5.524	117	12705	4.633	ug/L	97
33) Benzene	5.771	78	42745	5.261	ug/L	100
34) Trichloroethene	6.537	95	10895	5.168	ug/L	97
35) Methylcyclohexane	6.759	83	15302	4.191	ug/L	95
37) 1,2-Dichloropropane	6.787	63	10692	4.772	ug/L	99
38) Bromodichloromethane	7.103	83	14353	5.093	ug/L	96
39) cis-1,3-Dichloropropene	7.607	75	18160	4.936	ug/L	96
40) 4-Methyl-2-pentanone	7.787	43	24012	10.064	ug/L	100
42) Toluene	7.968	91	41605	4.814	ug/L	95
44) trans-1,3-Dichloropropene	8.209	75	17461m	5.124	ug/L	
45) 1,1,2-Trichloroethane	8.395	97	9812	4.829	ug/L	94
46) Tetrachloroethene	8.553	164	6194	4.435	ug/L	96
48) 2-Hexanone	8.681	43	22880m	12.153	ug/L	
49) Dibromochloromethane	8.807	129	9912	4.723	ug/L	94
50) 1,2-Dibromoethane	8.922	107	10916	5.058	ug/L	92
51) Chlorobenzene	9.443	112	24863	4.644	ug/L	97
52) Ethylbenzene	9.569	91	42314	4.390	ug/L	97
53) m,p-Xylene	9.691	106	15801	4.360	ug/L	99
54) o-xylene	10.096	106	14920	4.152	ug/L	87
55) Styrene	10.112	104	26056	4.372	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.778	83	16284	4.941	ug/L	98
59) Bromoform	10.289	173	6667	4.759	ug/L #	98
60) 1,2,3-Trichloropropane	10.820	75	11842	4.985	ug/L	97
61) Isopropylbenzene	10.482	105	39286	4.324	ug/L	99
62) 1,3,5-Trimethylbenzene	11.083	105	32037	4.164	ug/L	100
63) 1,2,4-Trimethylbenzene	11.466	105	32972	4.428	ug/L	98
64) 1,3-Dichlorobenzene	11.742	146	16754	4.503	ug/L	93
65) 1,4-Dichlorobenzene	11.832	146	16498	4.371	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	16878	4.488	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.993	75	3669	5.240	ug/L	91
69) 1,3,5-Trichlorobenzene	13.215	180	9599	3.806	ug/L	100
70) 1,2,4-trichlorobenzene	13.839	180	8981	3.762	ug/L	99
71) Naphthalene	14.086	128	33014	3.602	ug/L	99
72) 1,2,3-Trichlorobenzene	14.327	180	9627	4.016	ug/L	99

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



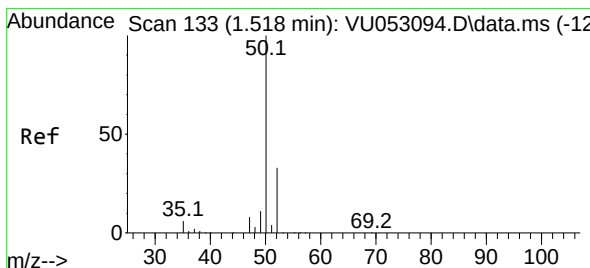
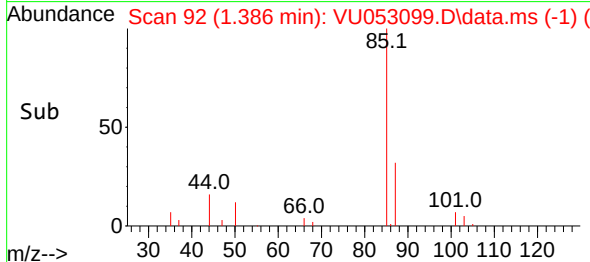
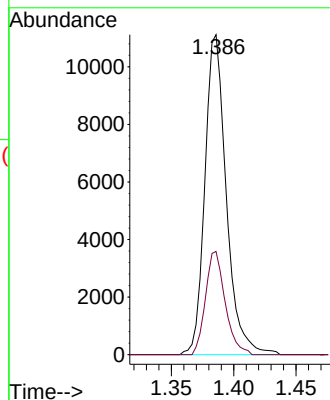
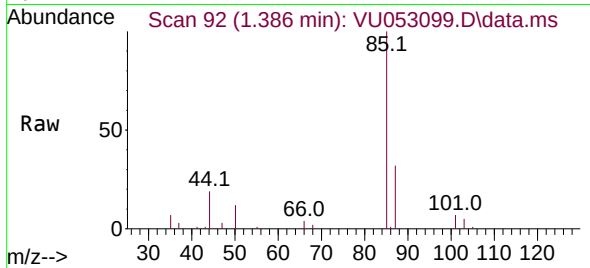
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Dichlorodifluoromethane
Concen: 5.193 ug/L
RT: 1.386 min Scan# 91
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Instrument : MSVOA_U
ClientSampleId : VU053099.D
MDL-WATER-QT1-2023-02

Tgt Ion: 85 Resp: 1331
Ion Ratio Lower Upper
85 100
87 29.6 25.6 38.4

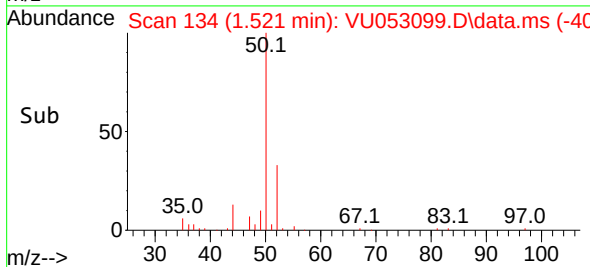
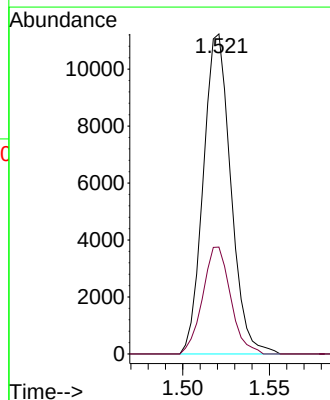
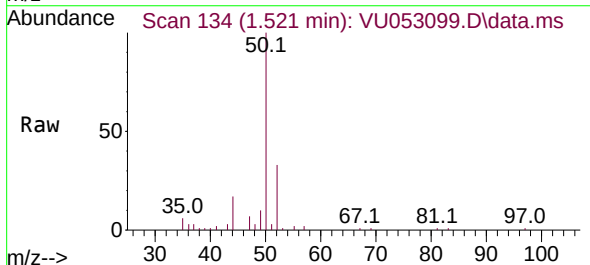
Manual Integrations
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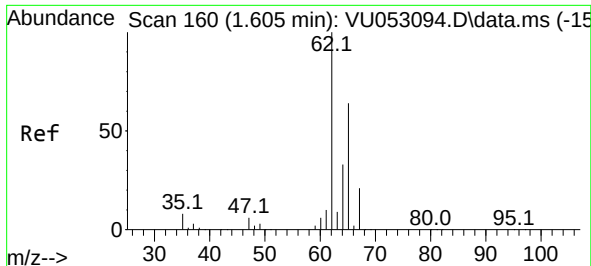
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#3
Chloromethane
Concen: 4.966 ug/L
RT: 1.521 min Scan# 134
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

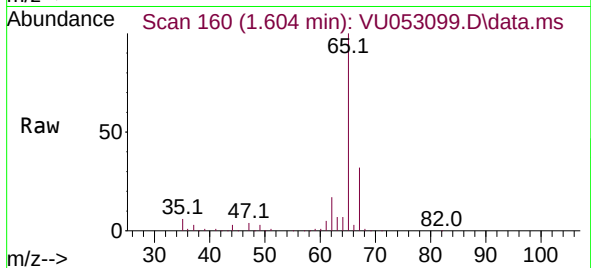
Tgt Ion: 50 Resp: 12413
Ion Ratio Lower Upper
50 100
52 33.4 22.8 42.4





#5
 Vinyl chloride
 Concen: 5.076 ug/L
 RT: 1.604 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: VU053099.D
 Acq: 14 Feb 2023 17:14

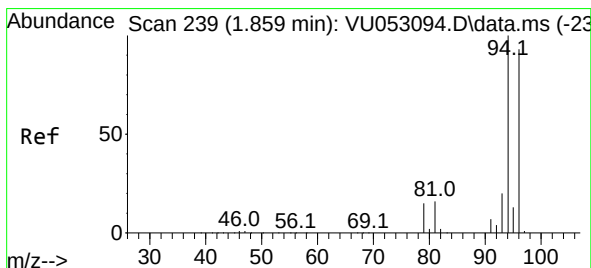
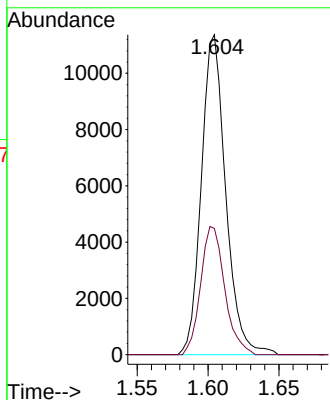
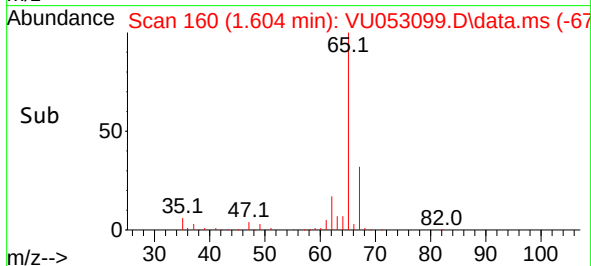
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2023-02



Tgt Ion: 62 Resp: 13600
 Ion Ratio Lower Upper
 62 100
 64 39.5 23.4 43.6

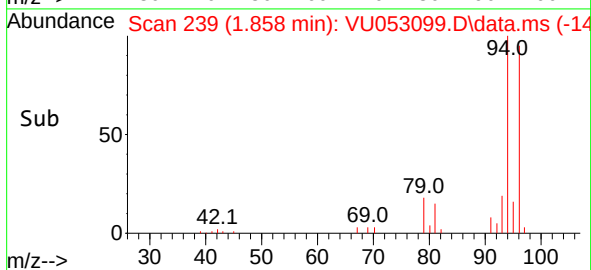
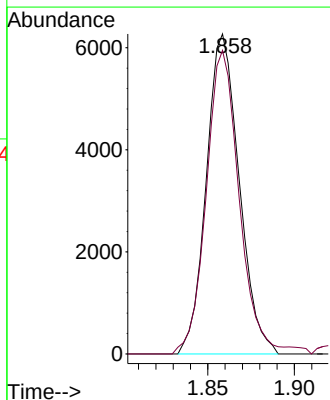
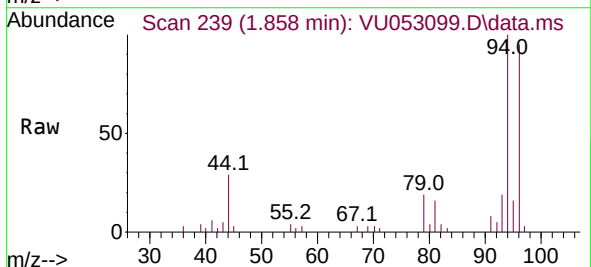
Manual Integrations
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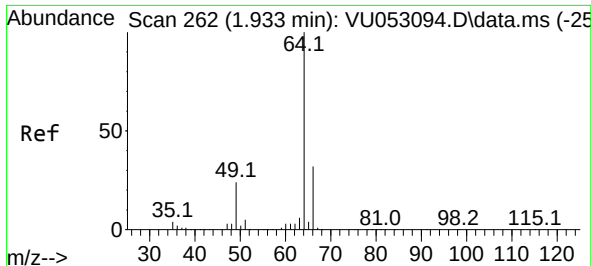
Reviewed By :Krupa Patel 02/15/2023
 Supervised By :Mahesh Dadoda 02/15/2023



#6
 Bromomethane
 Concen: 4.854 ug/L
 RT: 1.858 min Scan# 239
 Delta R.T. -0.000 min
 Lab File: VU053099.D
 Acq: 14 Feb 2023 17:14

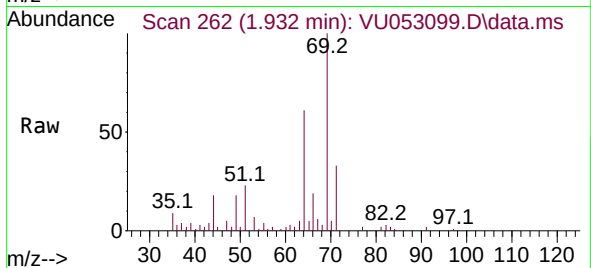
Tgt Ion: 94 Resp: 8267
 Ion Ratio Lower Upper
 94 100
 96 94.9 65.0 120.8





#8
Chloroethane
Concen: 4.779 ug/L
RT: 1.932 min Scan# 20
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

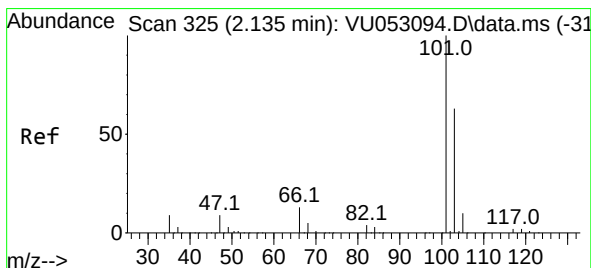
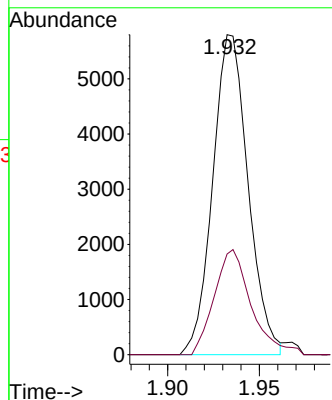
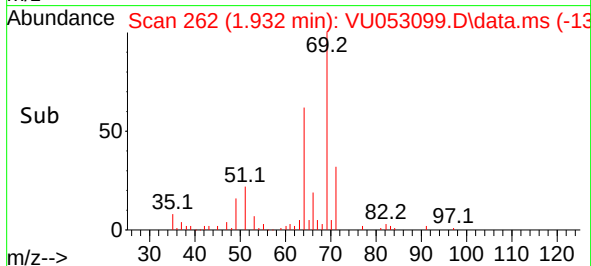
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



Tgt Ion: 64 Resp: 7794
Ion Ratio Lower Upper
64 100
66 31.5 22.4 41.6

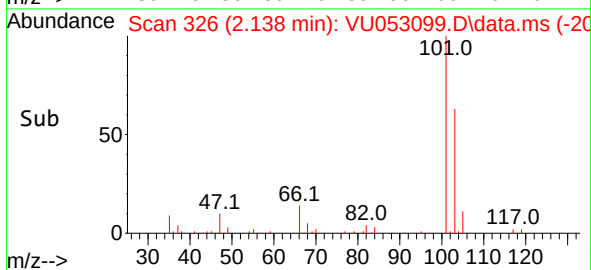
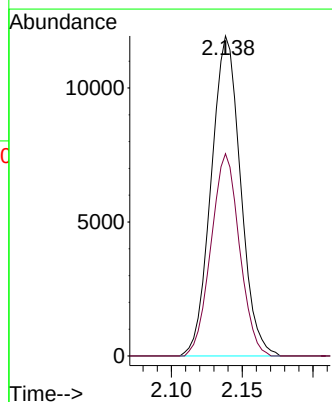
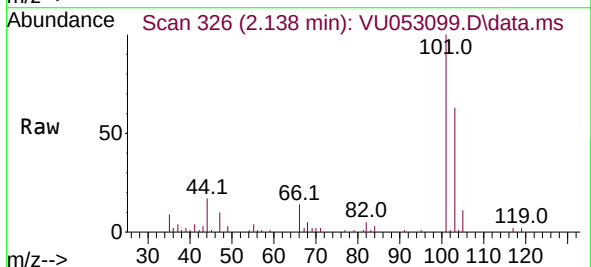
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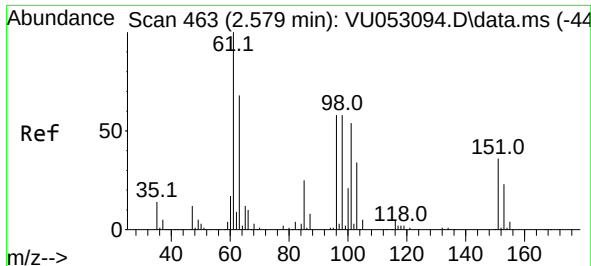
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#9
Trichlorofluoromethane
Concen: 4.948 ug/L
RT: 2.138 min Scan# 326
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion:101 Resp: 17236
Ion Ratio Lower Upper
101 100
103 61.2 51.4 77.0





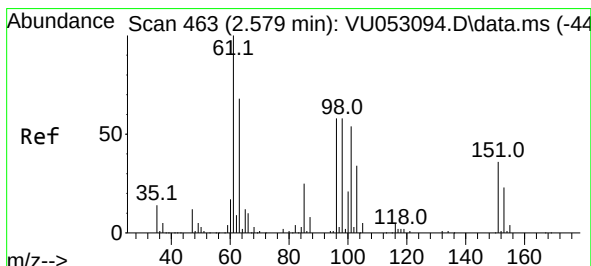
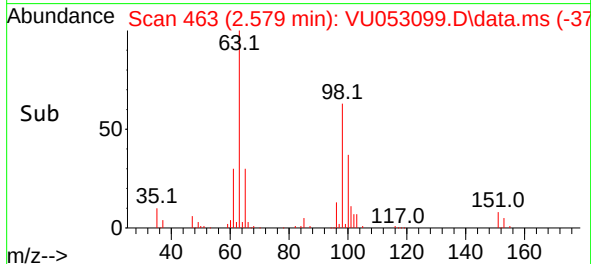
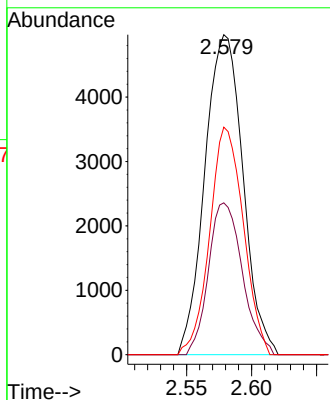
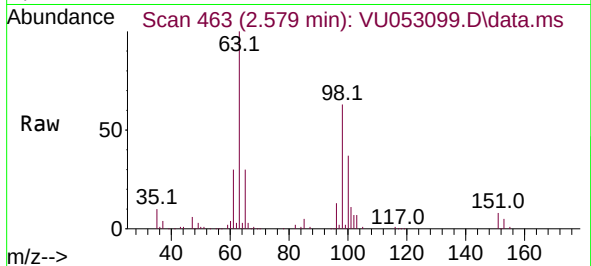
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1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 5.195 ug/L
RT: 2.579 min Scan# 463
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

Tgt Ion: 101 Resp: 10119
Ion Ratio Lower Upper
101 100
85 42.3 36.6 54.8
151 62.9 52.6 79.0

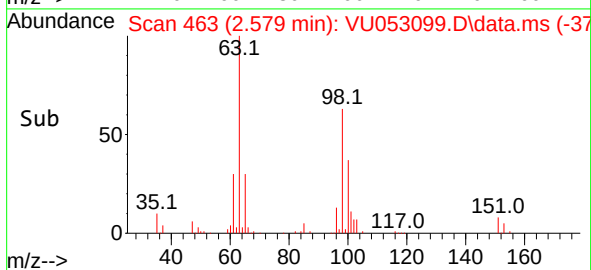
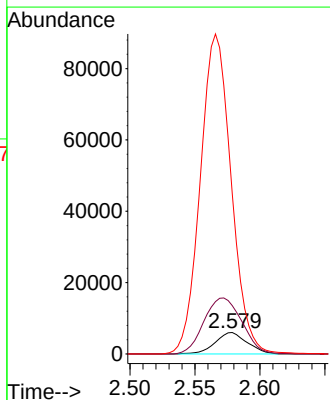
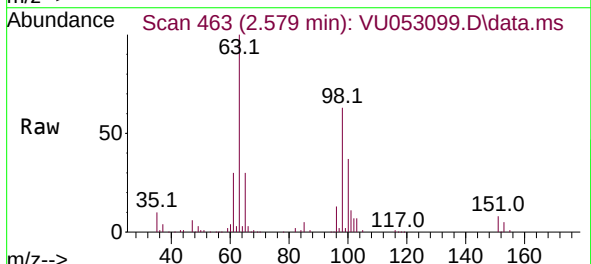
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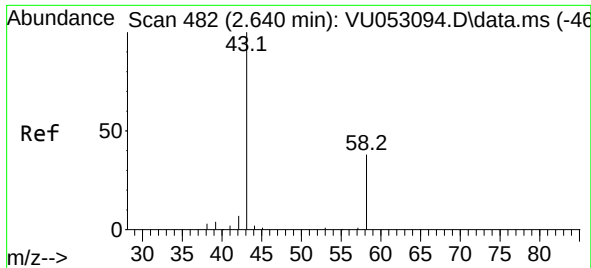
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#12
1,1-Dichloroethene
Concen: 5.581 ug/L
RT: 2.579 min Scan# 463
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion: 96 Resp: 10286
Ion Ratio Lower Upper
96 100
61 226.1 121.9 226.3
63 747.8 84.2 156.4#





#13

Acetone

Concen: 11.430 ug/L

RT: 2.640 min Scan# 482

Delta R.T. -0.000 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 43 Resp: 870

Ion Ratio Lower Upper

43 100

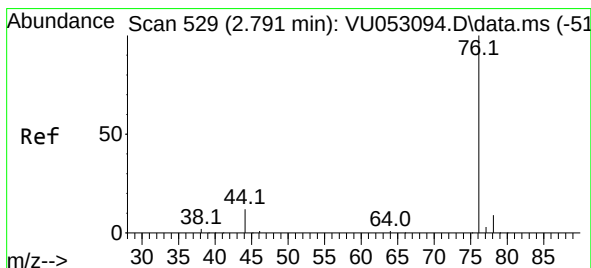
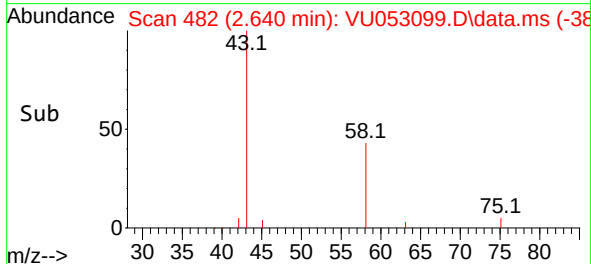
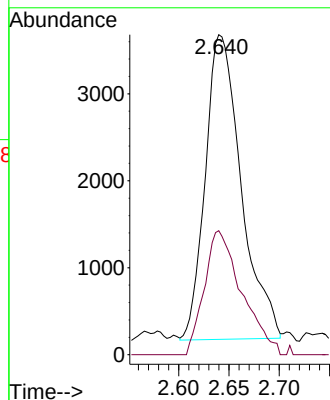
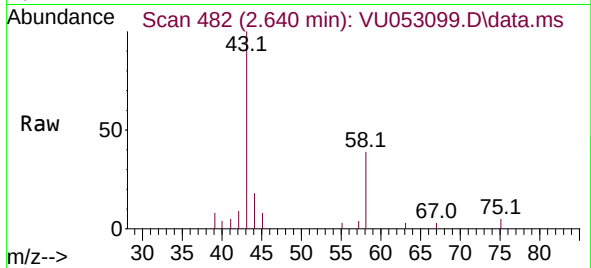
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Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#14

Carbon disulfide

Concen: 5.066 ug/L

RT: 2.791 min Scan# 529

Delta R.T. -0.000 min

Lab File: VU053099.D

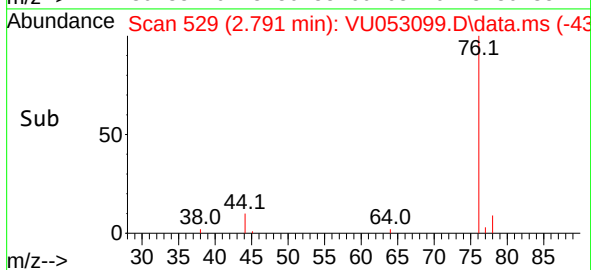
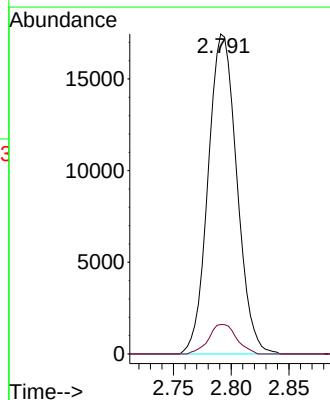
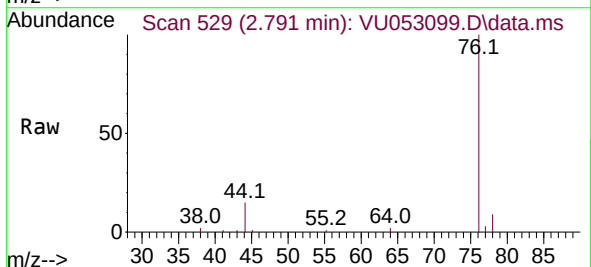
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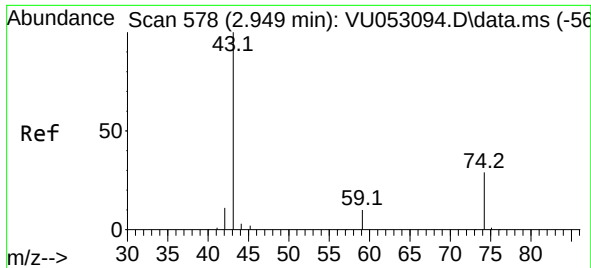
Tgt Ion: 76 Resp: 30260

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0





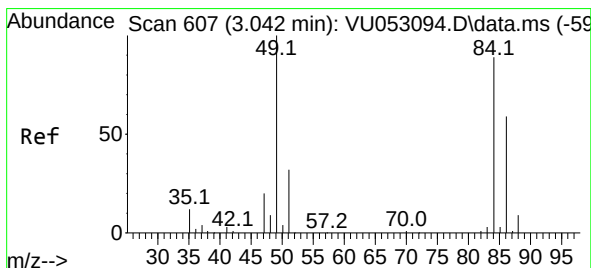
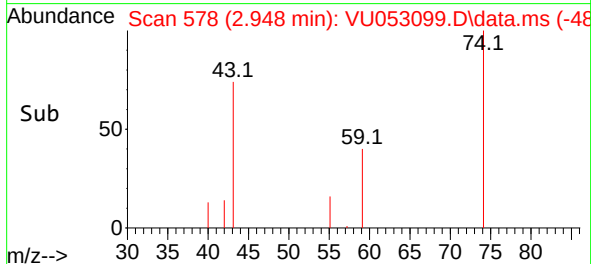
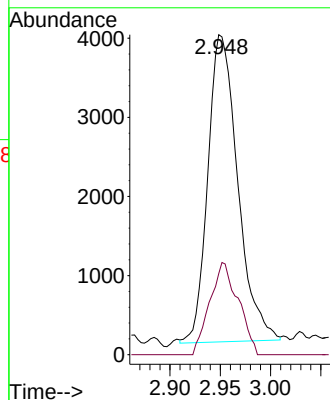
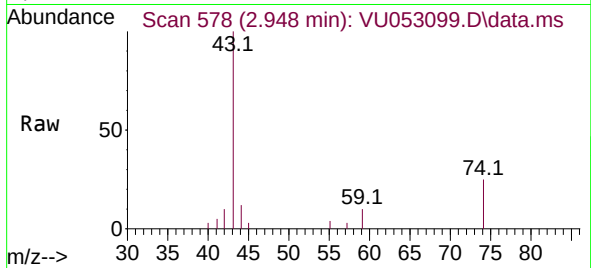
#15
Methyl Acetate
Concen: 4.888 ug/L
RT: 2.948 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

Tgt Ion: 43 Resp: 8019
Ion Ratio Lower Upper
43 100
74 28.6 22.7 34.1

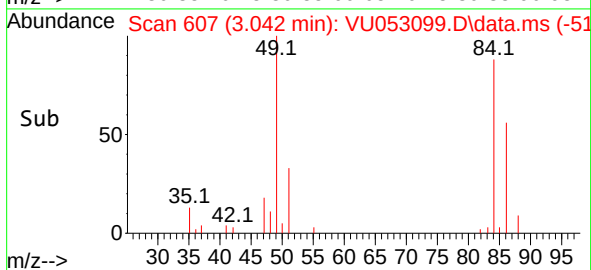
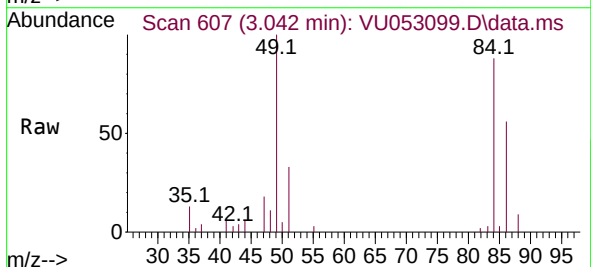
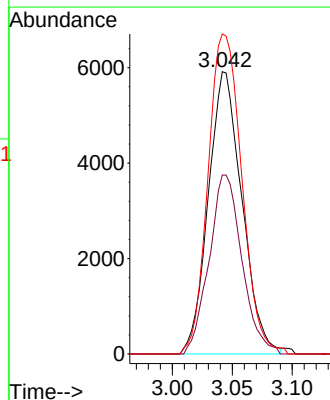
Manual Integrations
APPROVED

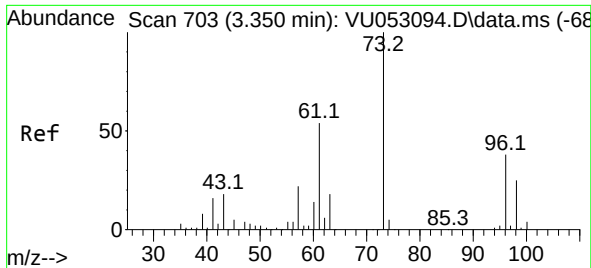
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#16
Methylene chloride
Concen: 5.439 ug/L
RT: 3.042 min Scan# 607
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

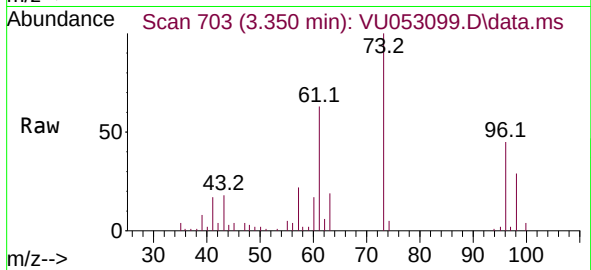
Tgt Ion: 84 Resp: 11523
Ion Ratio Lower Upper
84 100
86 63.4 46.2 85.8
49 113.4 78.8 146.3





#17
trans-1,2-Dichloroethene
Concen: 5.116 ug/L
RT: 3.350 min Scan# 703
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

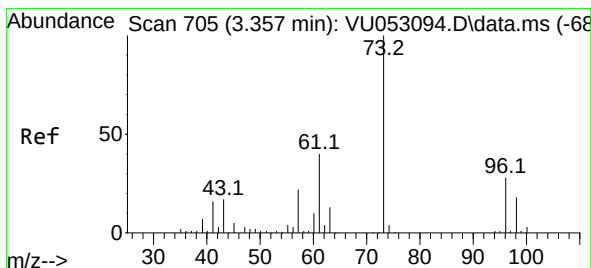
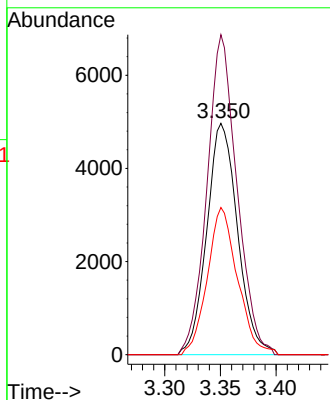
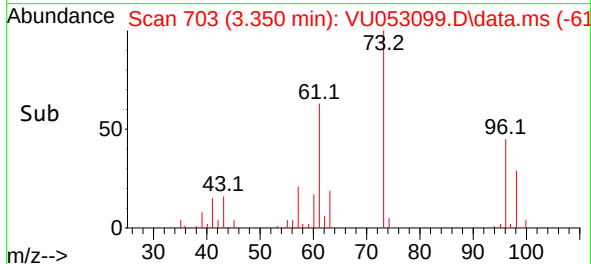
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



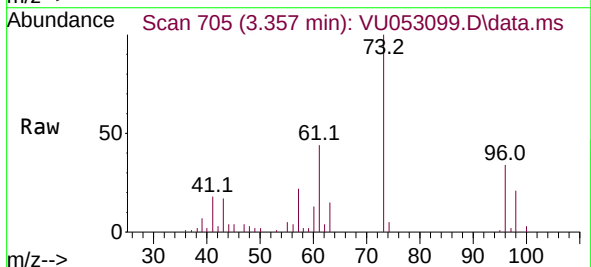
Tgt Ion: 96 Resp: 9579
Ion Ratio Lower Upper
96 100
61 138.3 99.2 184.2
98 63.6 45.1 83.7

Manual Integrations
APPROVED

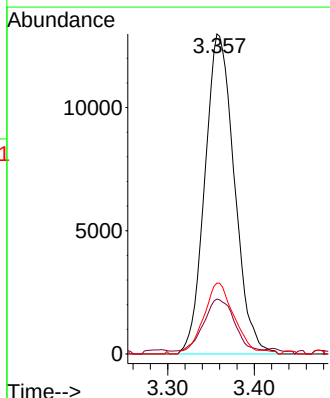
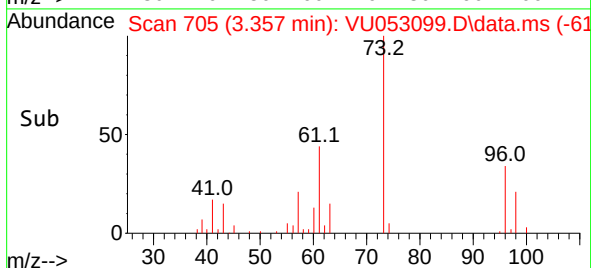
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023

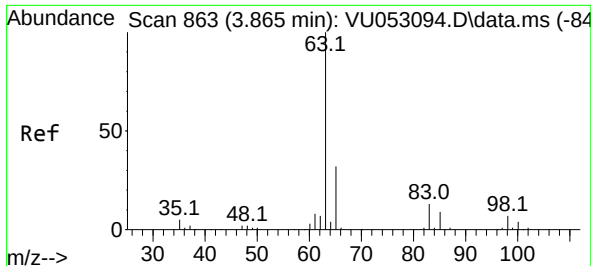


#18
Methyl tert-butyl Ether
Concen: 4.883 ug/L
RT: 3.357 min Scan# 705
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14



Tgt Ion: 73 Resp: 30719
Ion Ratio Lower Upper
73 100
43 17.9 14.1 21.1
57 22.6 17.4 26.0





#19

1,1-Dichloroethane

Concen: 4.895 ug/L

RT: 3.868 min Scan# 864

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 63 Resp: 17978

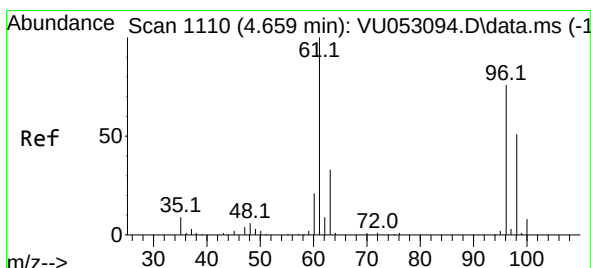
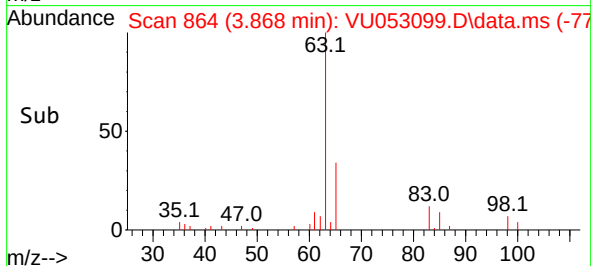
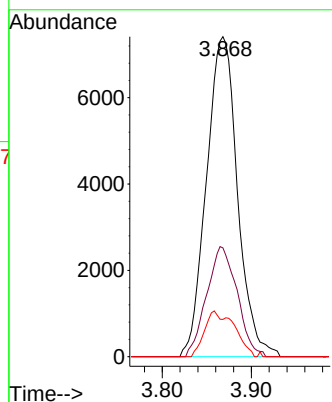
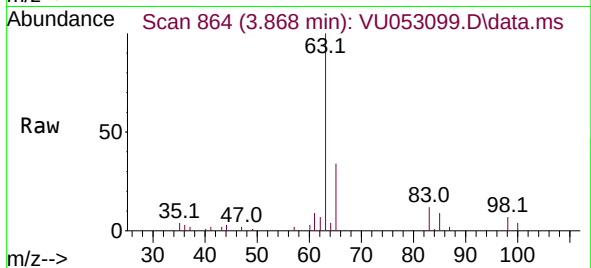
Ion	Ratio	Lower	Upper
63	100		
65	34.0	22.4	41.6
83	11.7	9.4	17.4

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#20

cis-1,2-Dichloroethene

Concen: 4.888 ug/L

RT: 4.665 min Scan# 1112

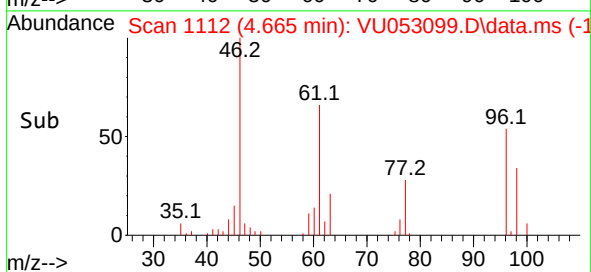
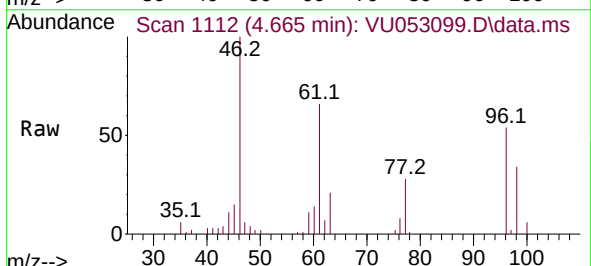
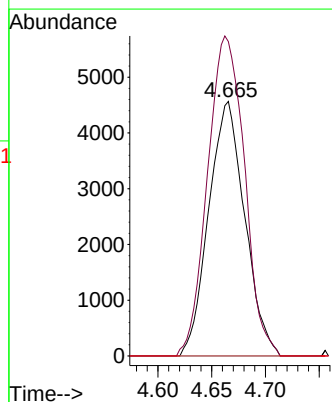
Delta R.T. 0.006 min

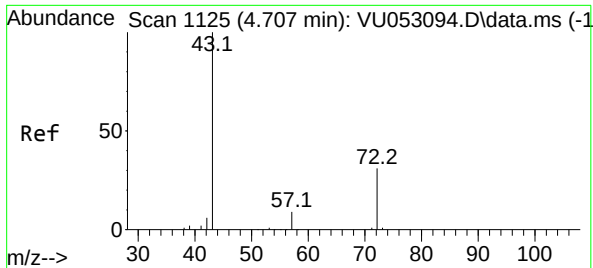
Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Tgt Ion: 96 Resp: 10658

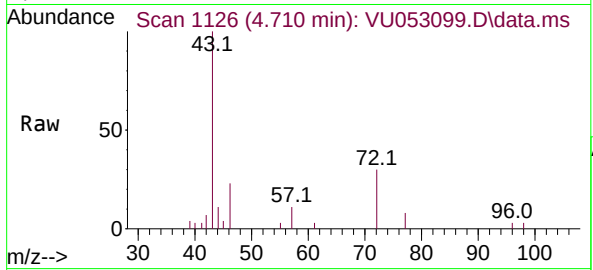
Ion	Ratio	Lower	Upper
96	100		
61	123.5	91.9	170.7
68	0.0	0.0	0.0





#22
2-Butanone
Concen: 11.451 ug/L m
RT: 4.710 min Scan# 1125
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

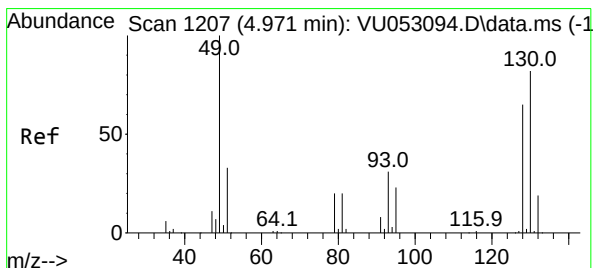
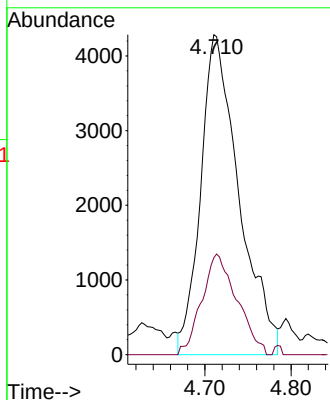
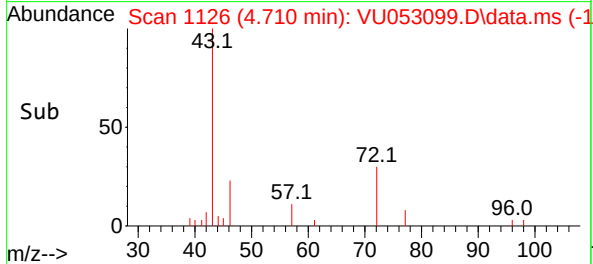
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



Tgt Ion: 43 Resp: 1324
Ion Ratio Lower Upper
43 100
72 28.5 16.6 49.7

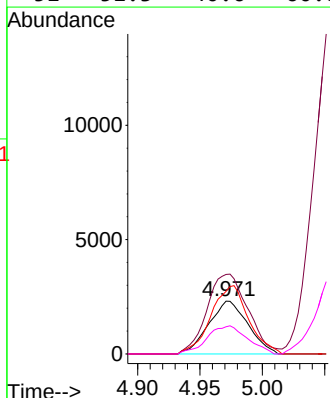
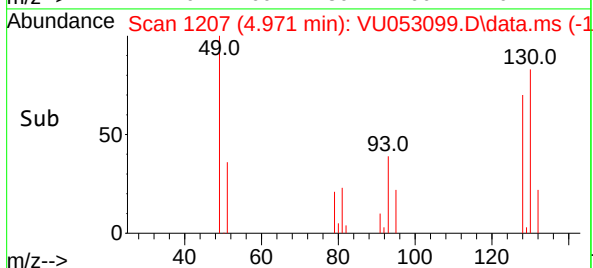
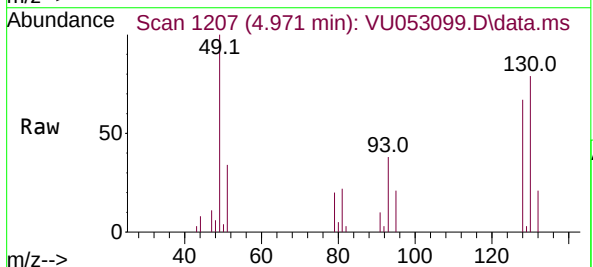
Manual Integrations
APPROVED

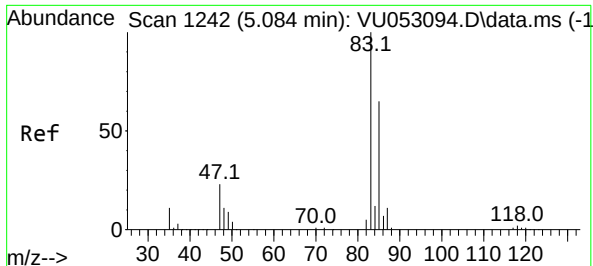
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#23
Bromochloromethane
Concen: 4.947 ug/L
RT: 4.971 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion:128 Resp: 5063
Ion Ratio Lower Upper
128 100
49 150.3 107.6 199.8
130 118.3 87.9 163.3
51 51.3 40.6 60.8





#25

Chloroform

Concen: 5.072 ug/L

RT: 5.087 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

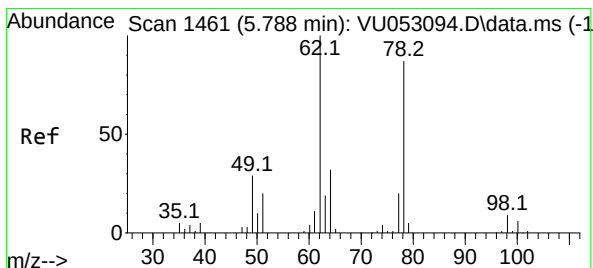
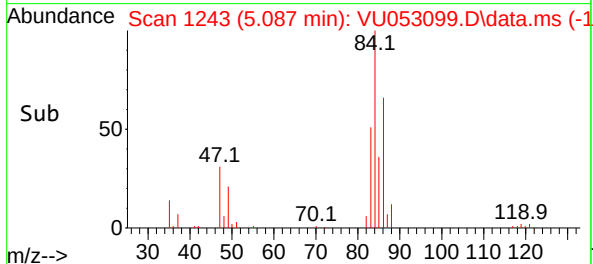
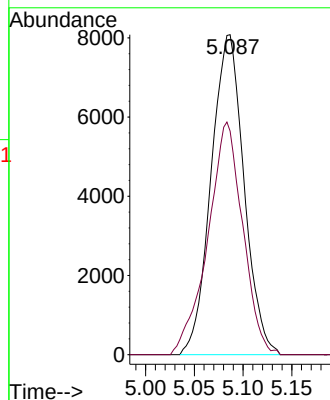
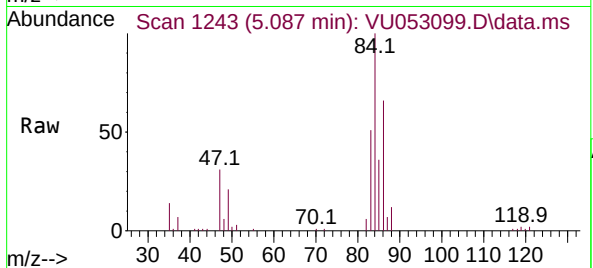
ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 83 Resp: 1898
 Ion Ratio Lower Upper
 83 100
 85 69.8 45.8 85.0

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 02/15/2023
 Supervised By :Mahesh Dadoda 02/15/2023



#27

1,2-Dichloroethane

Concen: 5.208 ug/L

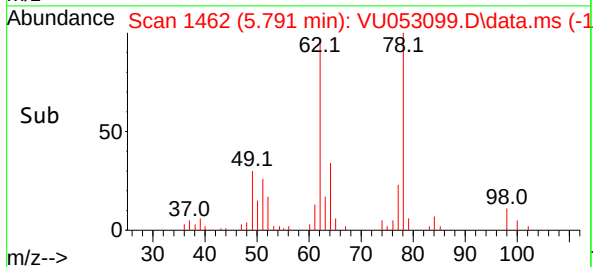
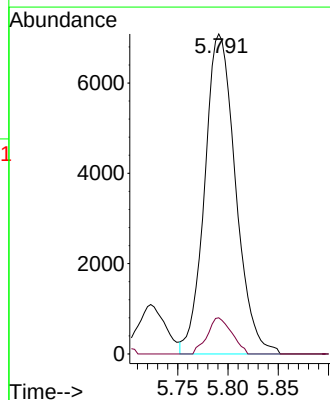
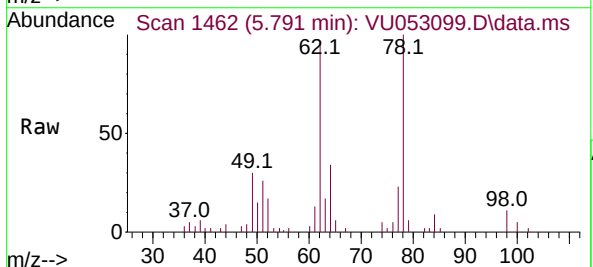
RT: 5.791 min Scan# 1462

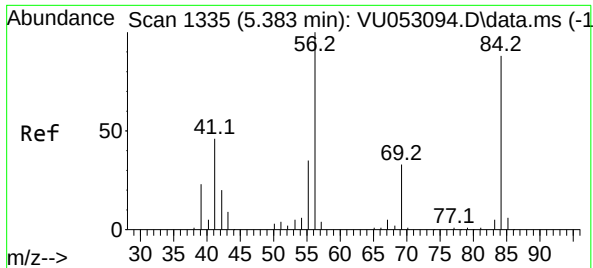
Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Tgt Ion: 62 Resp: 15128
 Ion Ratio Lower Upper
 62 100
 98 11.3 7.2 10.8#





#29

Cyclohexane

Concen: 4.486 ug/L

RT: 5.386 min Scan# 1336

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 56 Resp: 15310

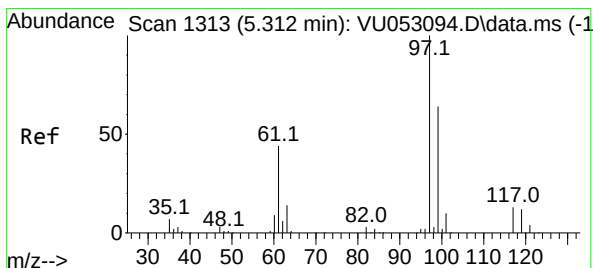
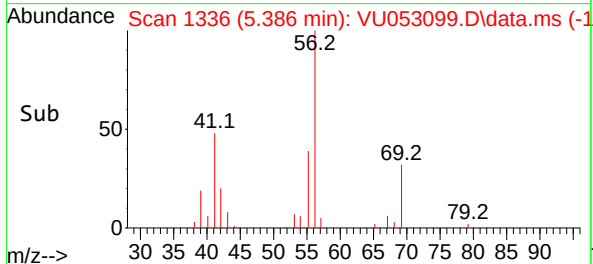
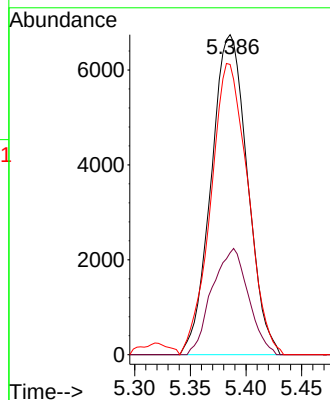
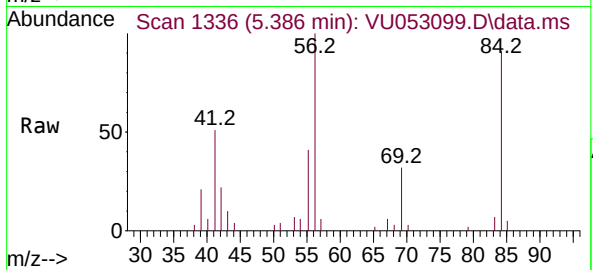
Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.9	38.9
84	92.8	70.7	106.1

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#30

1,1,1-Trichloroethane

Concen: 4.641 ug/L

RT: 5.312 min Scan# 1313

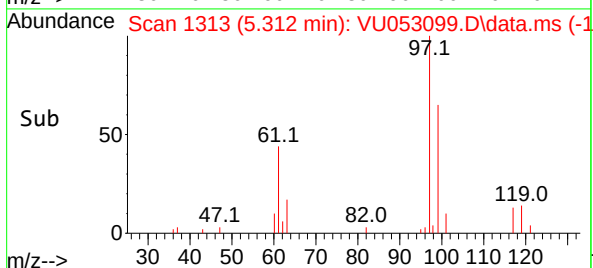
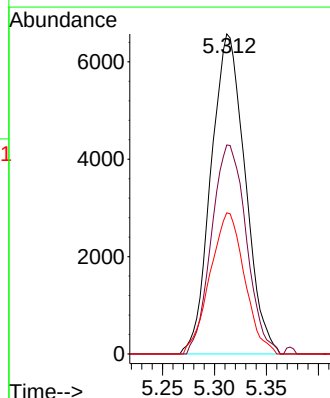
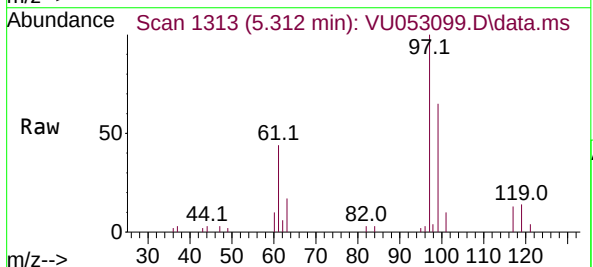
Delta R.T. -0.000 min

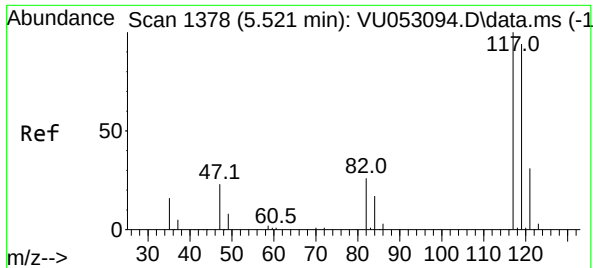
Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Tgt Ion: 97 Resp: 14977

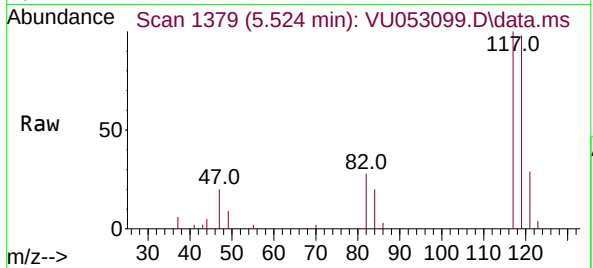
Ion	Ratio	Lower	Upper
97	100		
99	66.7	51.3	76.9
61	44.7	35.3	52.9





#31
Carbon tetrachloride
Concen: 4.633 ug/L
RT: 5.524 min Scan# 1170
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

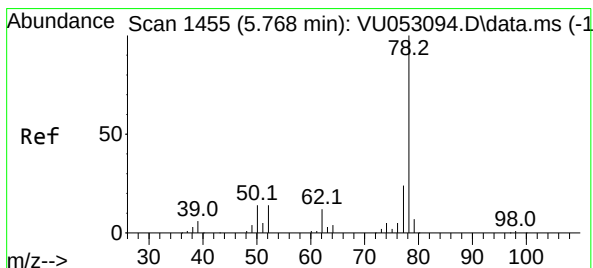
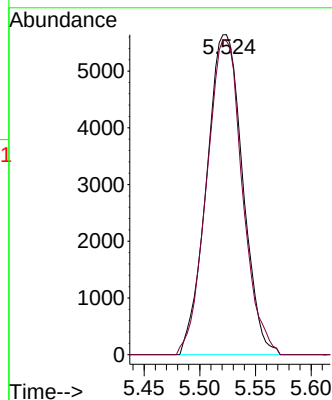
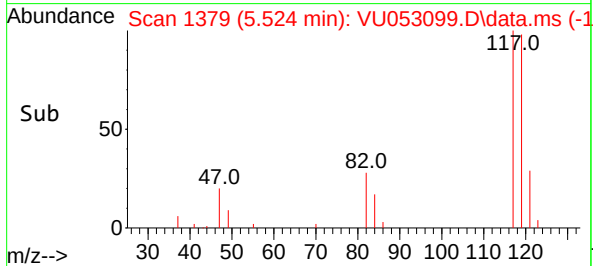
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



Tgt Ion:117 Resp: 1270
Ion Ratio Lower Upper
117 100
119 97.4 75.9 113.9

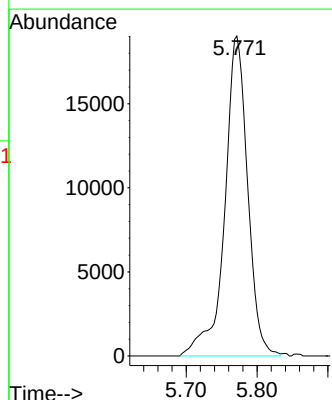
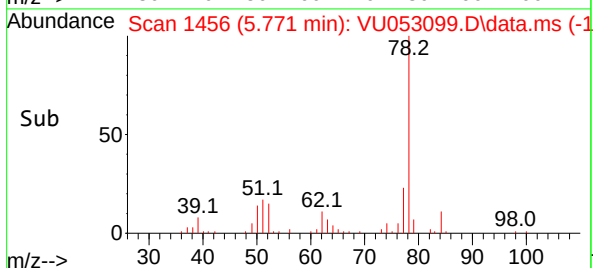
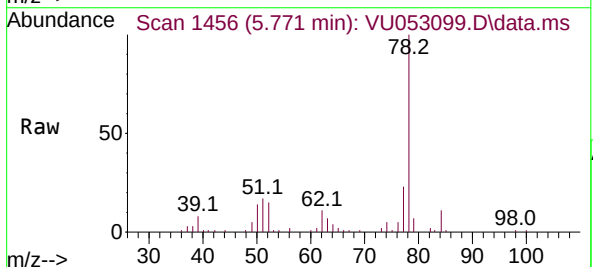
Manual Integrations
APPROVED

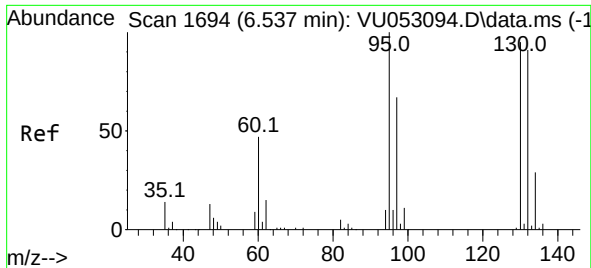
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#33
Benzene
Concen: 5.261 ug/L
RT: 5.771 min Scan# 1456
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

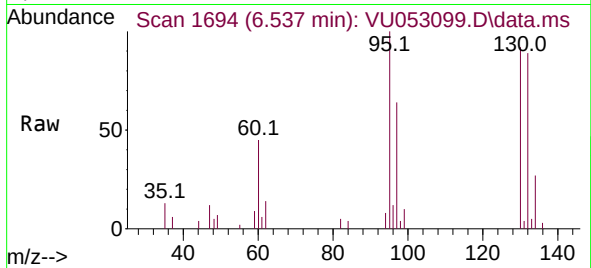
Tgt Ion: 78 Resp: 42745





#34
Trichloroethene
Concen: 5.168 ug/L
RT: 6.537 min Scan# 1694
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

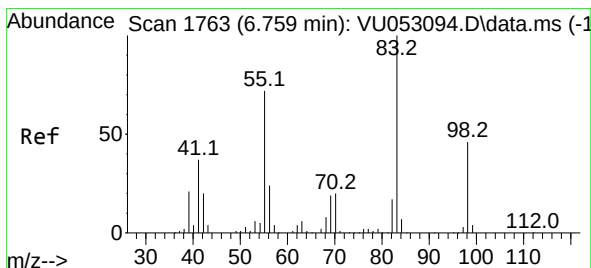
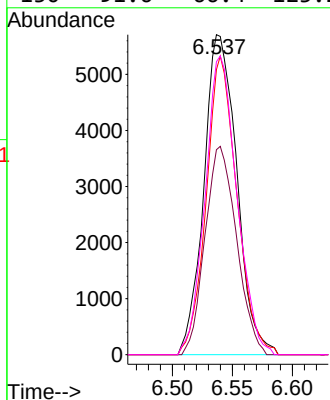
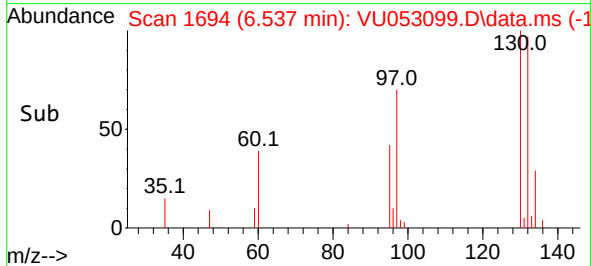
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



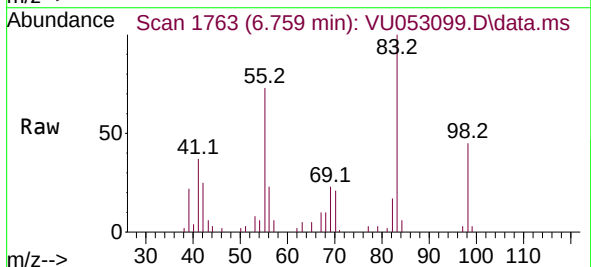
Tgt Ion: 95 Resp: 1089
Ion Ratio Lower Upper
95 100
97 64.1 47.1 87.5
132 89.1 63.6 118.2
130 91.6 66.4 123.2

Manual Integrations
APPROVED

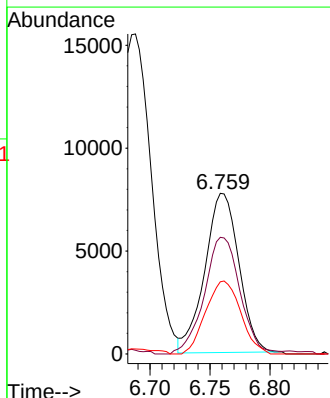
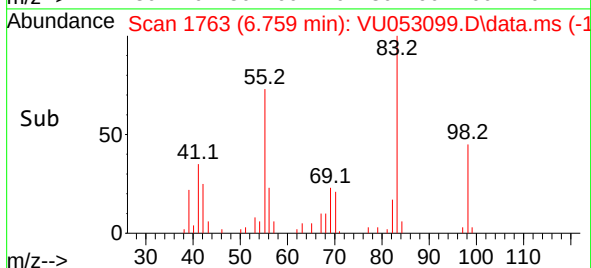
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023

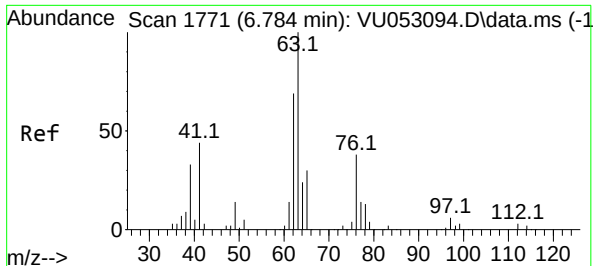


#35
Methylcyclohexane
Concen: 4.191 ug/L
RT: 6.759 min Scan# 1763
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14



Tgt Ion: 83 Resp: 15302
Ion Ratio Lower Upper
83 100
55 76.8 57.4 86.2
98 46.9 36.1 54.1





#37

1,2-Dichloropropane

Concen: 4.772 ug/L

RT: 6.787 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 63 Resp: 10692

Ion Ratio Lower Upper

63 100

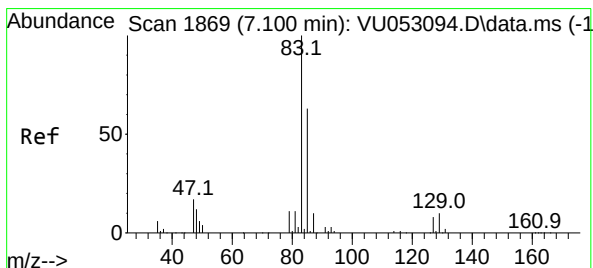
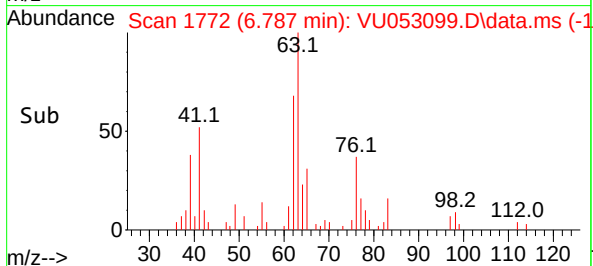
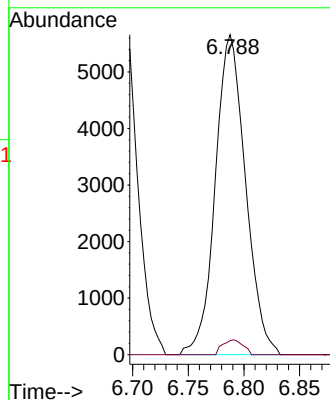
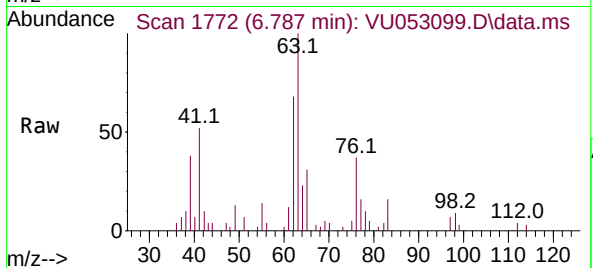
112 3.1 2.7 4.1

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#38

Bromodichloromethane

Concen: 5.093 ug/L

RT: 7.103 min Scan# 1870

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

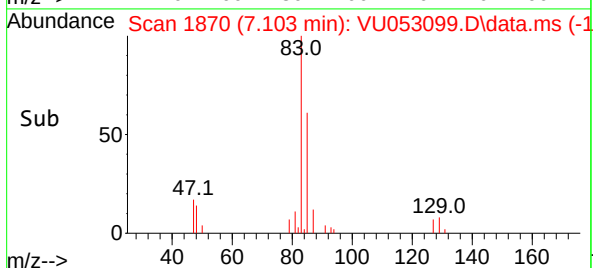
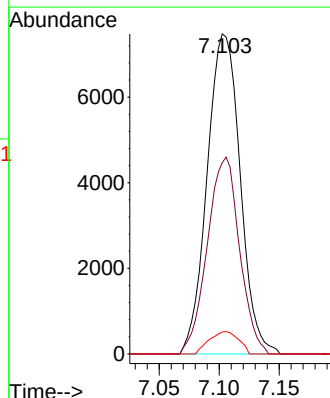
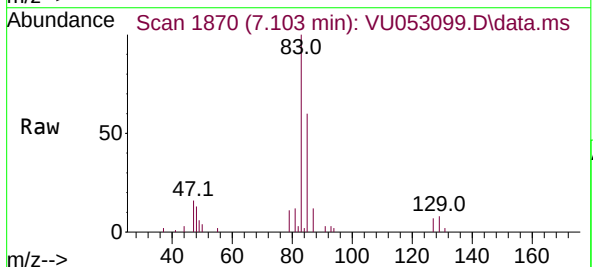
Tgt Ion: 83 Resp: 14353

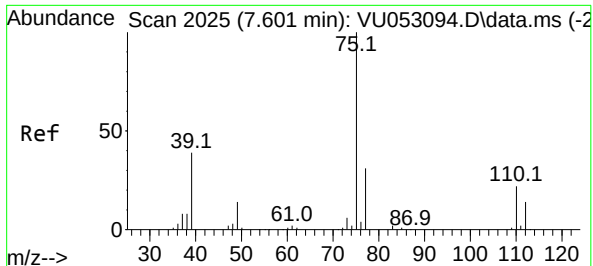
Ion Ratio Lower Upper

83 100

85 59.8 44.2 82.0

127 6.9 6.2 9.2





#39

cis-1,3-Dichloropropene

Concen: 4.936 ug/L

RT: 7.607 min Scan# 2025

Delta R.T. 0.006 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 75 Resp: 1816

Ion Ratio Lower Upper

75 100

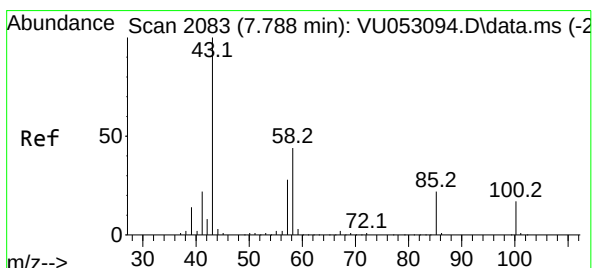
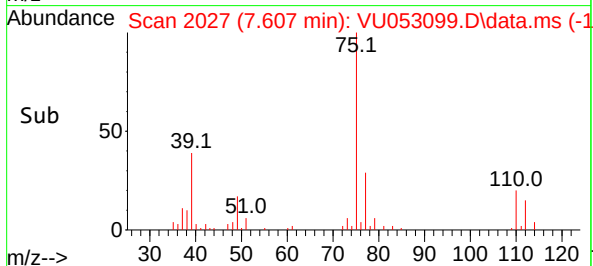
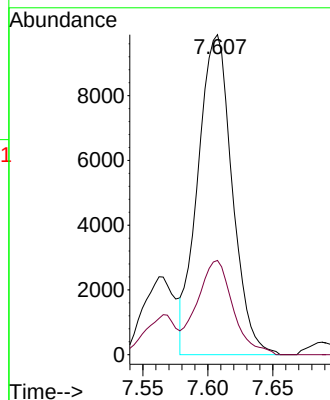
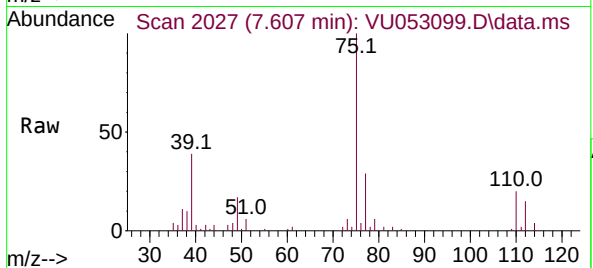
77 29.4 22.2 41.2

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#40

4-Methyl-2-pentanone

Concen: 10.064 ug/L

RT: 7.787 min Scan# 2083

Delta R.T. -0.000 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

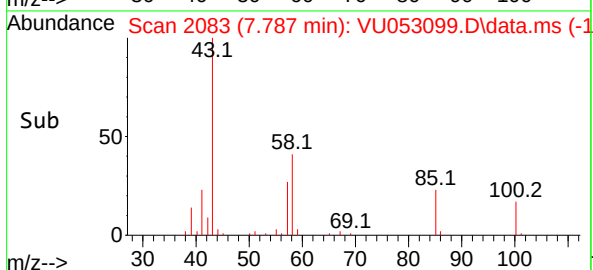
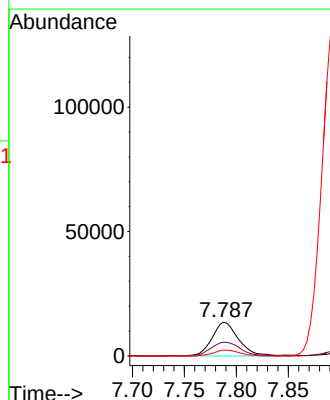
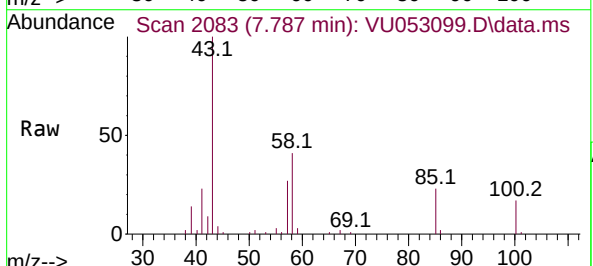
Tgt Ion: 43 Resp: 24012

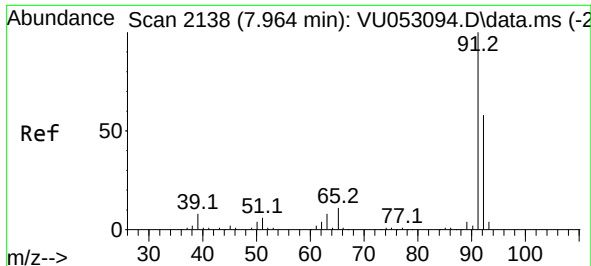
Ion Ratio Lower Upper

43 100

58 45.1 35.9 53.9

100 16.8 13.7 20.5





#42

Toluene

Concen: 4.814 ug/L

RT: 7.968 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 91 Resp: 4160

Ion Ratio Lower Upper

91 100

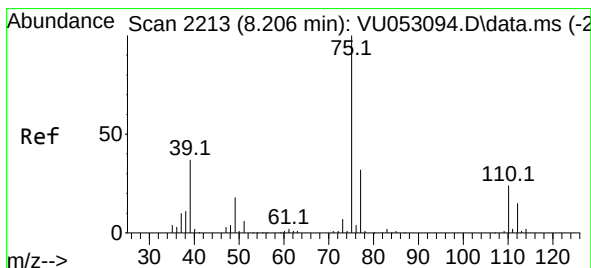
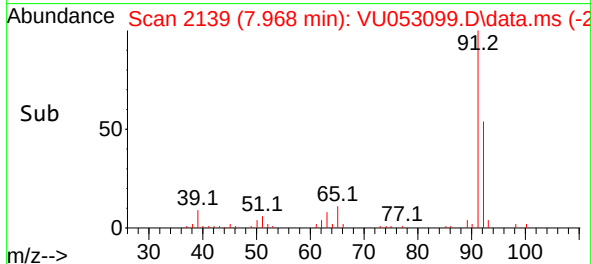
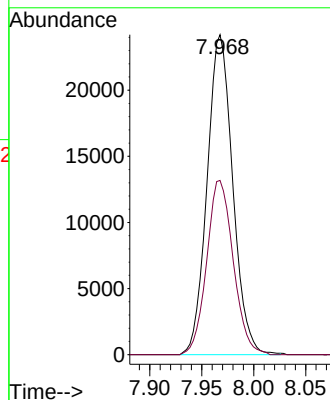
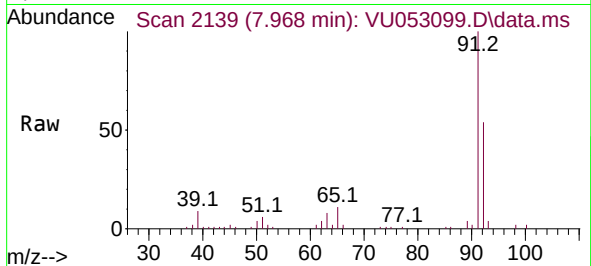
92 54.5 40.7 75.7

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#44

trans-1,3-Dichloropropene

Concen: 5.124 ug/L m

RT: 8.209 min Scan# 2214

Delta R.T. 0.003 min

Lab File: VU053099.D

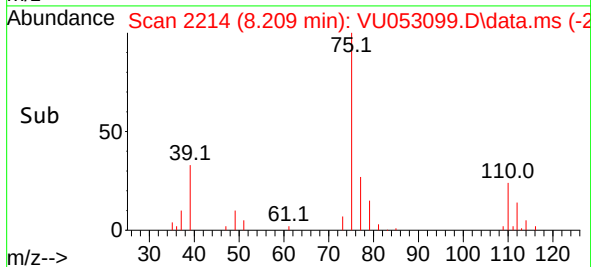
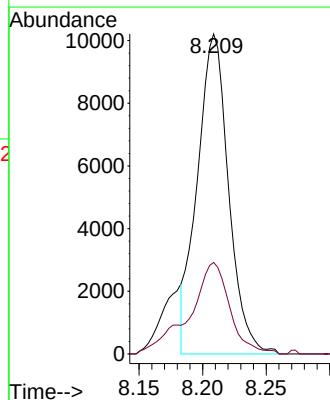
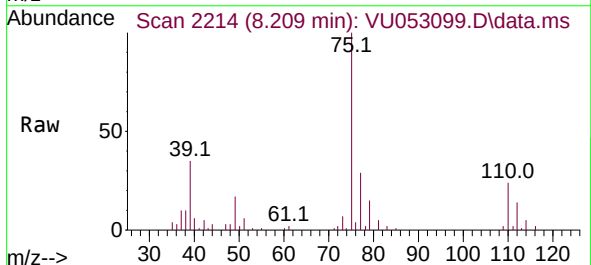
Acq: 14 Feb 2023 17:14

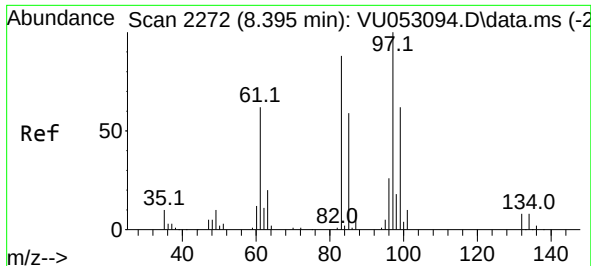
Tgt Ion: 75 Resp: 17461

Ion Ratio Lower Upper

75 100

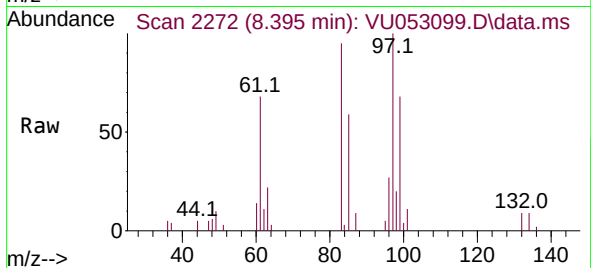
77 28.6 22.2 41.2





#45
1,1,2-Trichloroethane
Concen: 4.829 ug/L
RT: 8.395 min Scan# 2272
Delta R.T. 0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

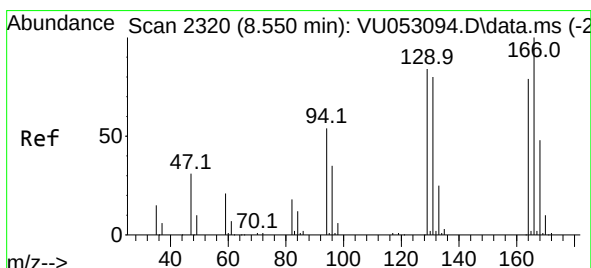
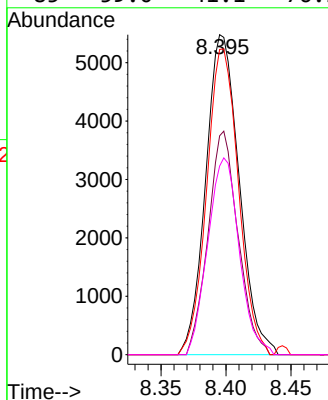
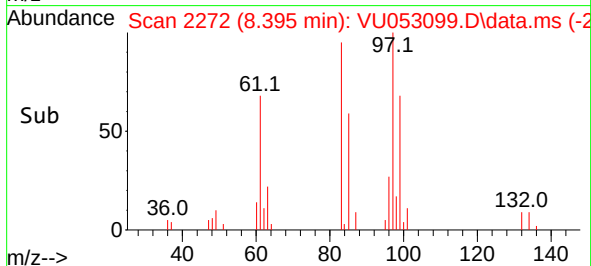
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



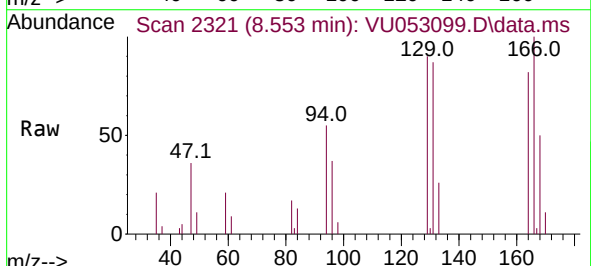
Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.4	43.7	81.1
83	95.4	61.7	114.5
85	59.0	41.1	76.3

Manual Integrations
APPROVED

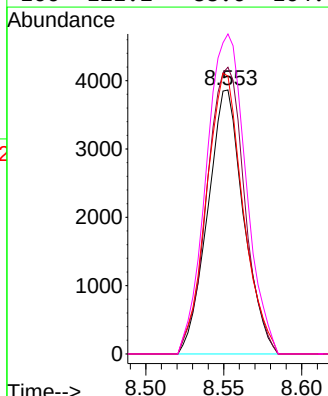
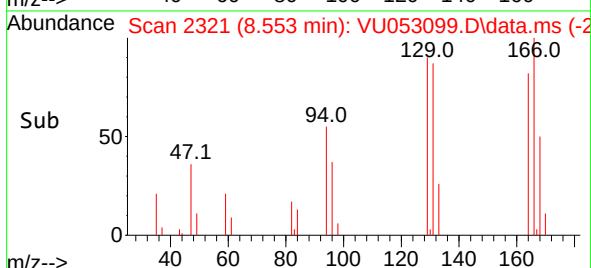
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023

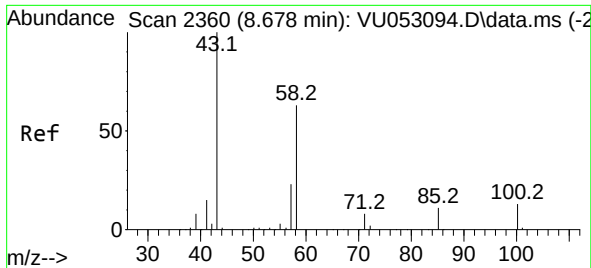


#46
Tetrachloroethene
Concen: 4.435 ug/L
RT: 8.553 min Scan# 2321
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14



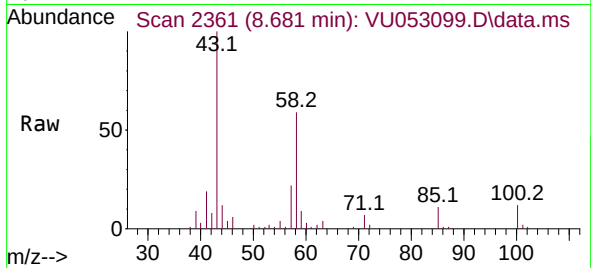
Tgt Ion	Ratio	Lower	Upper
164	100		
129	108.6	74.8	139.0
131	105.3	70.7	131.3
166	121.2	88.6	164.6





#48
2-Hexanone
Concen: 12.153 ug/L m
RT: 8.681 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

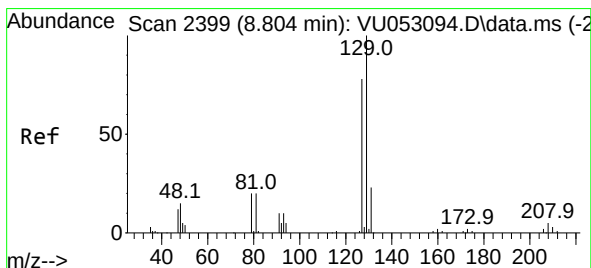
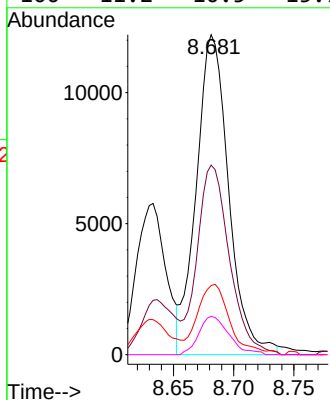
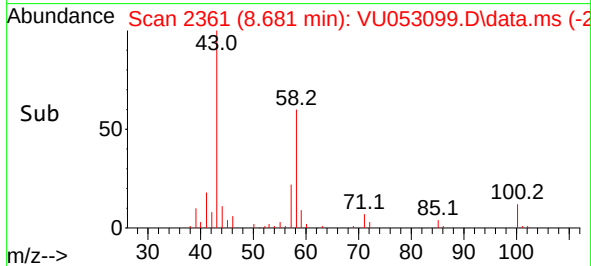
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



Tgt Ion: 43 Resp: 22880
Ion Ratio Lower Upper
43 100
58 59.0 50.0 75.0
57 21.6 17.7 26.5
100 11.2 10.5 15.7

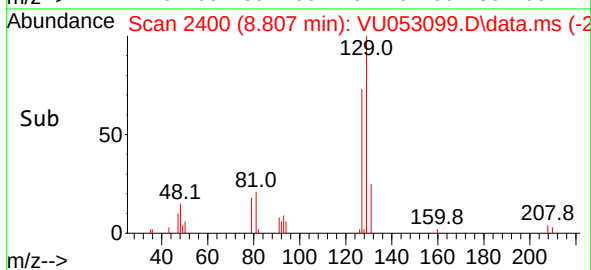
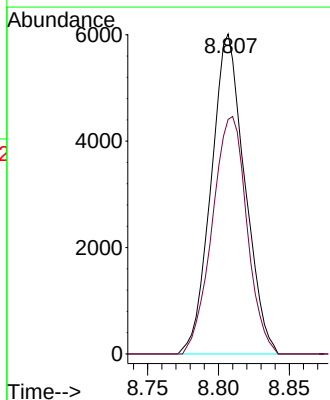
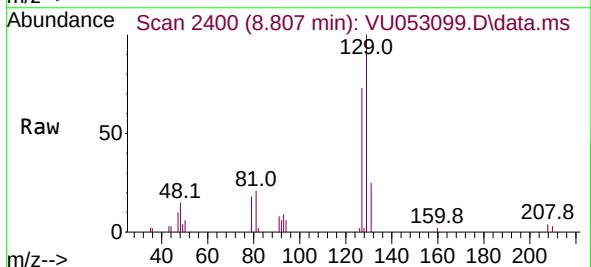
Manual Integrations
APPROVED

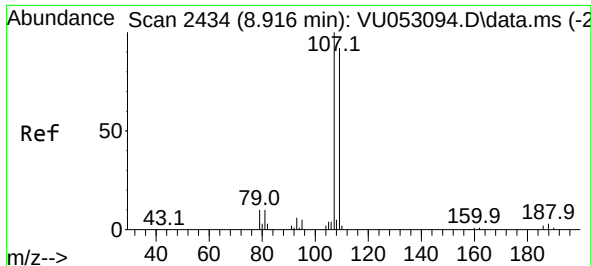
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#49
Dibromochloromethane
Concen: 4.723 ug/L
RT: 8.807 min Scan# 2400
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion:129 Resp: 9912
Ion Ratio Lower Upper
129 100
127 73.3 54.9 101.9





#50

1,2-Dibromoethane

Concen: 5.058 ug/L

RT: 8.922 min Scan# 2436

Delta R.T. 0.006 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

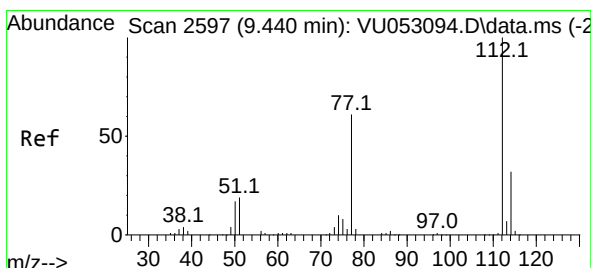
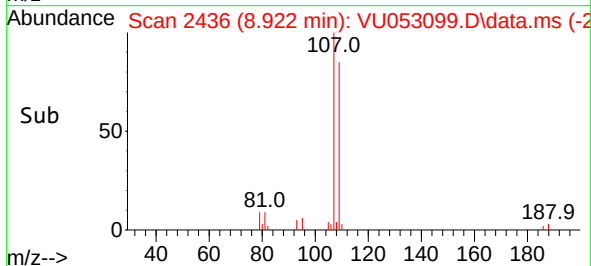
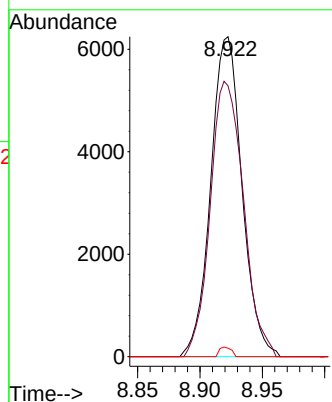
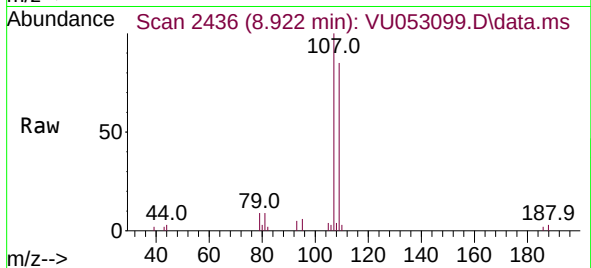
Tgt Ion:	107	Resp:	10910
Ion	Ratio	Lower	Upper
107	100		
109	84.7	64.5	119.9
188	2.7	2.2	3.4

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#51

Chlorobenzene

Concen: 4.644 ug/L

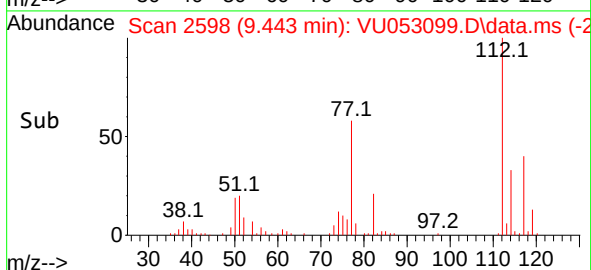
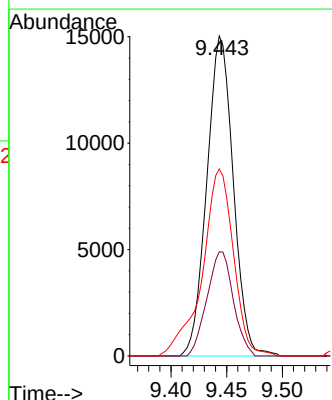
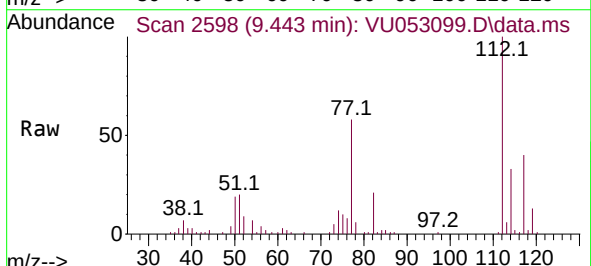
RT: 9.443 min Scan# 2598

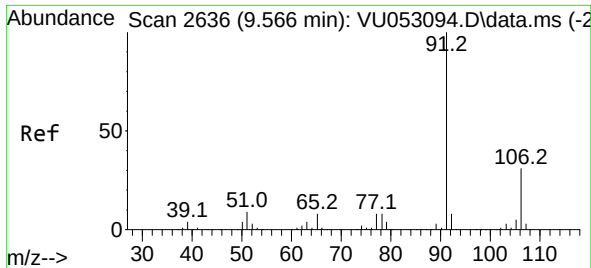
Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Tgt Ion:	112	Resp:	24863
Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.3	41.3
77	58.4	48.8	73.2





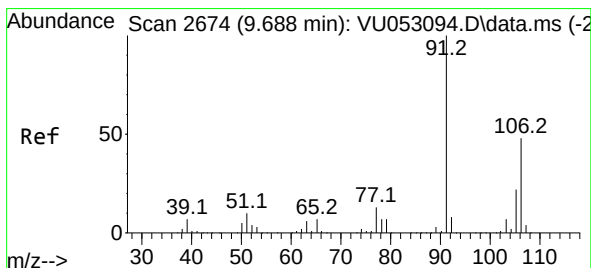
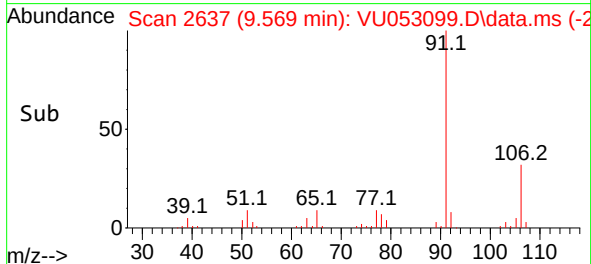
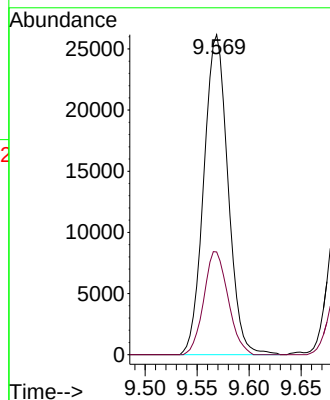
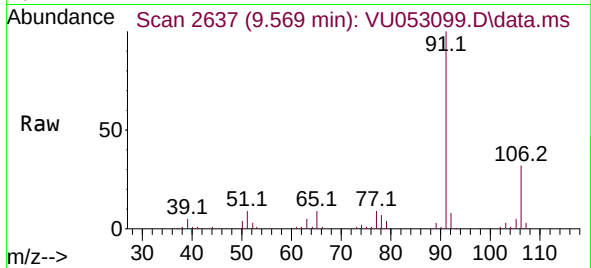
#52
Ethylbenzene
Concen: 4.390 ug/L
RT: 9.569 min Scan# 2637
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

Tgt Ion: 91 Resp: 42314
Ion Ratio Lower Upper
91 100
106 32.1 21.5 39.9

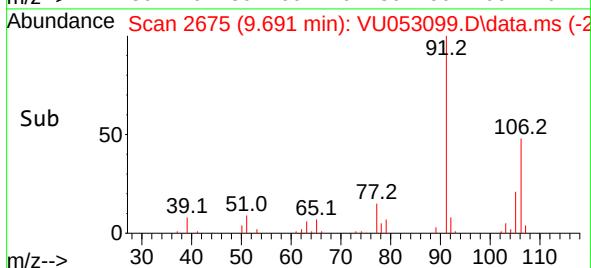
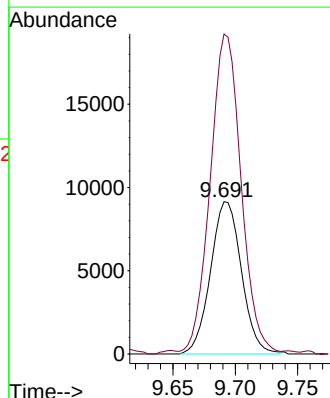
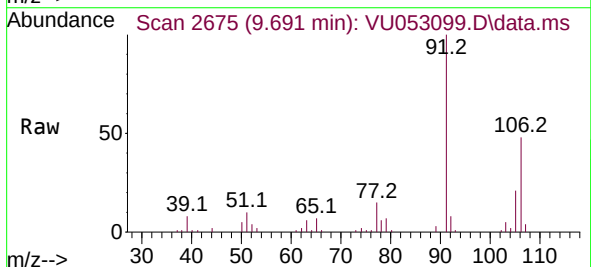
Manual Integrations
APPROVED

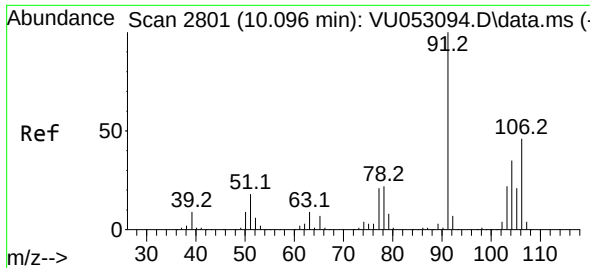
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#53
m,p-Xylene
Concen: 4.360 ug/L
RT: 9.691 min Scan# 2675
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion:106 Resp: 15801
Ion Ratio Lower Upper
106 100
91 210.1 145.6 270.4





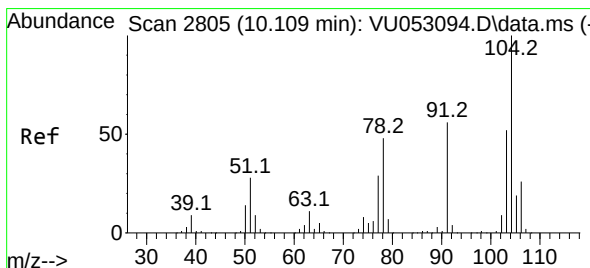
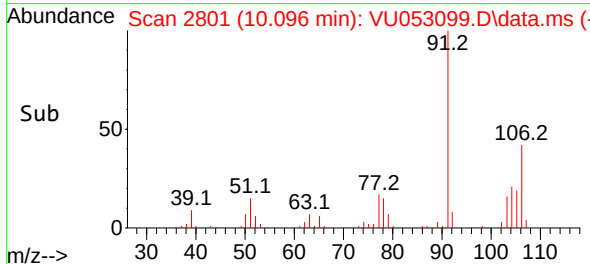
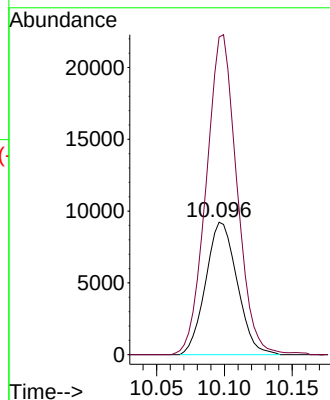
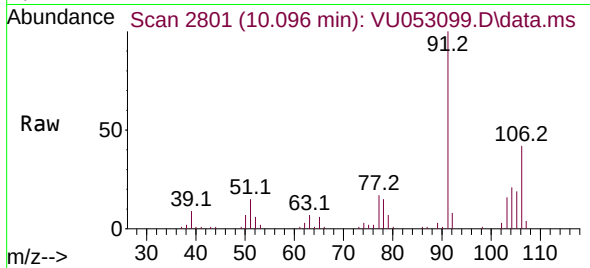
#54
o-xylene
Concen: 4.152 ug/L
RT: 10.096 min Scan# 2801
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

Tgt Ion:106 Resp: 14920
Ion Ratio Lower Upper
106 100
91 239.8 152.8 283.8

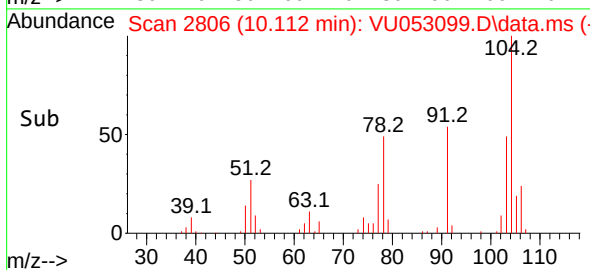
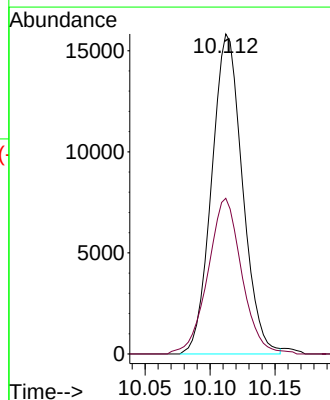
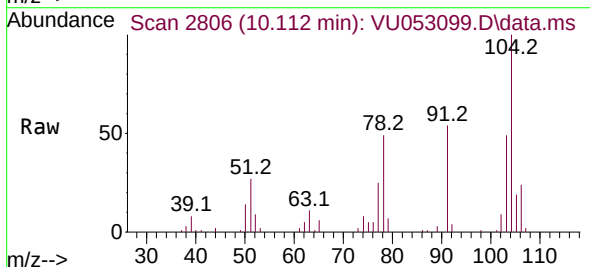
Manual Integrations
APPROVED

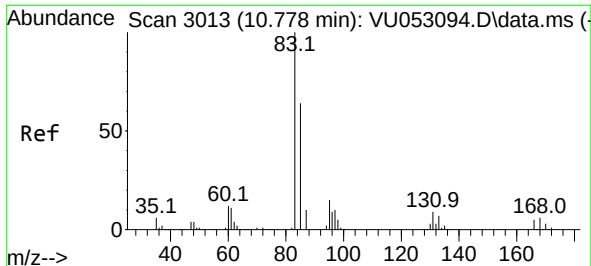
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#55
Styrene
Concen: 4.372 ug/L
RT: 10.112 min Scan# 2806
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion:104 Resp: 26056
Ion Ratio Lower Upper
104 100
78 48.7 33.6 62.4





#57

1,1,2,2-Tetrachloroethane

Concen: 4.941 ug/L

RT: 10.778 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

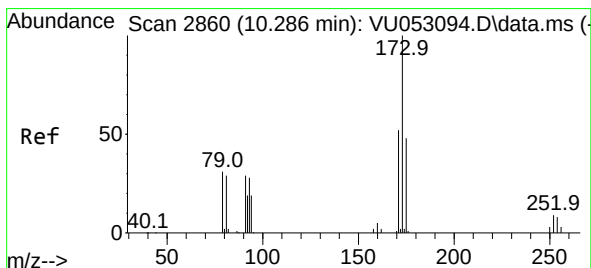
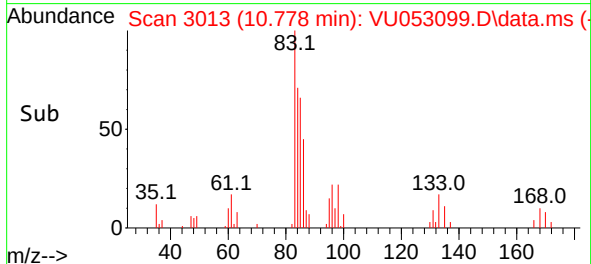
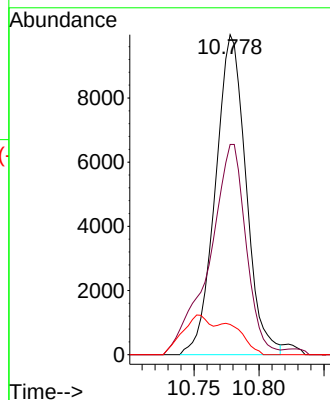
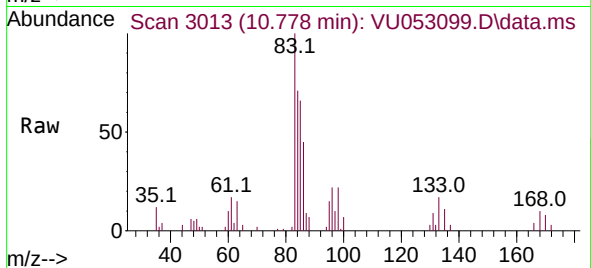
Tgt Ion: 83	Resp: 16284
Ion Ratio	Lower Upper
83 100	
85 65.7	44.7 82.9
131 9.4	7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#59

Bromoform

Concen: 4.759 ug/L

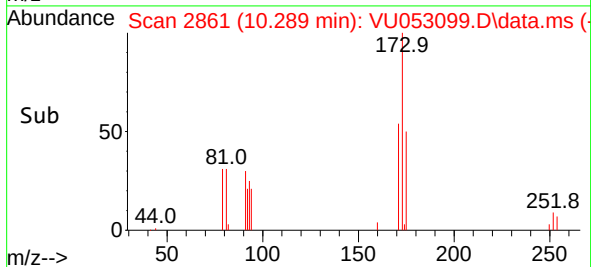
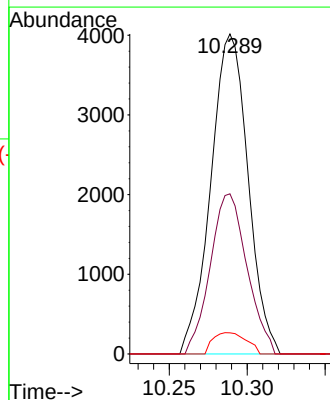
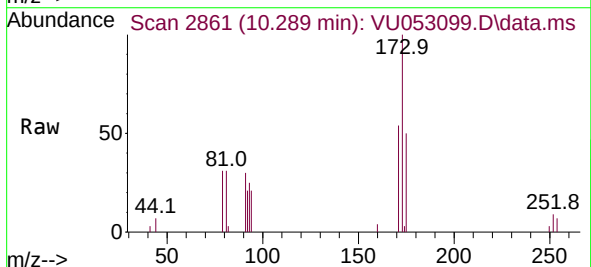
RT: 10.289 min Scan# 2861

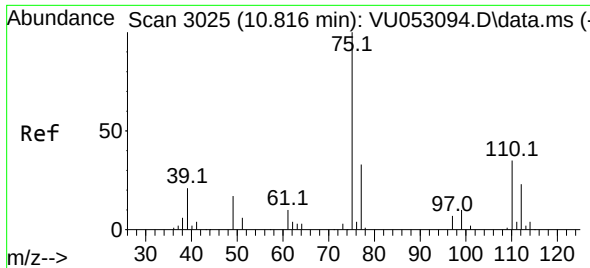
Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

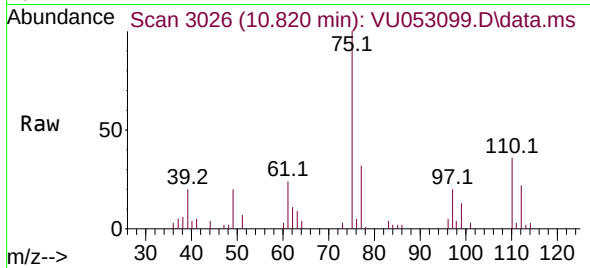
Tgt Ion:173	Resp: 6667
Ion Ratio	Lower Upper
173 100	
175 49.5	38.8 58.2
254 6.0	6.4 9.6#





#60
1,2,3-Trichloropropane
Concen: 4.985 ug/L
RT: 10.820 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

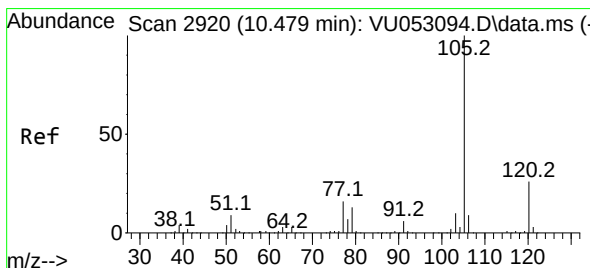
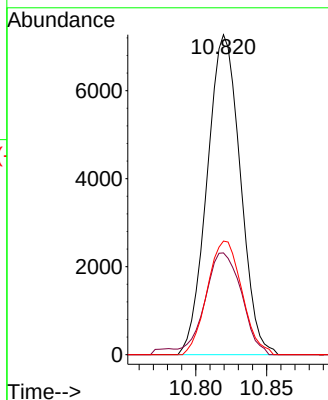
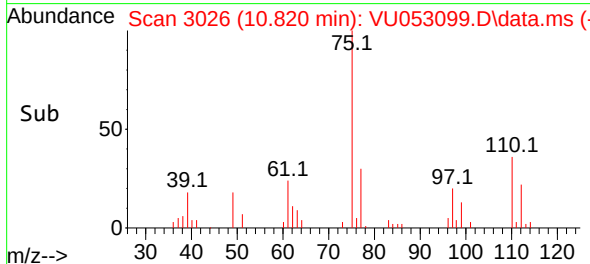
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



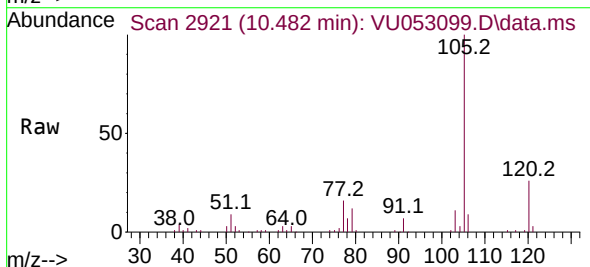
Tgt Ion: 75 Resp: 1184
Ion Ratio Lower Upper
75 100
77 34.9 26.6 39.8
110 37.0 28.6 42.8

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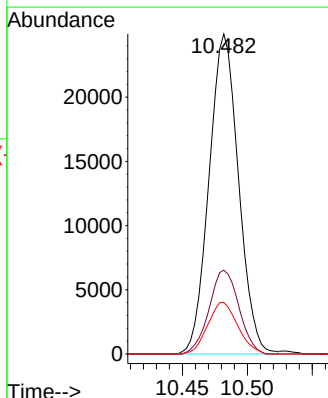
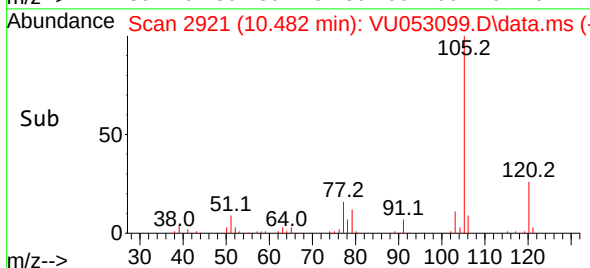
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023

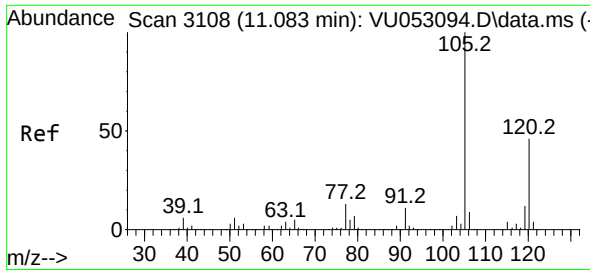


#61
Isopropylbenzene
Concen: 4.324 ug/L
RT: 10.482 min Scan# 2921
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14



Tgt Ion:105 Resp: 39286
Ion Ratio Lower Upper
105 100
120 26.4 20.8 31.2
77 16.4 12.8 19.2





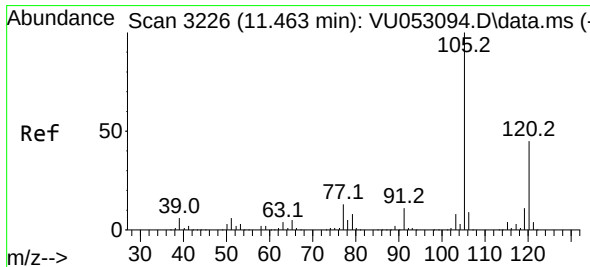
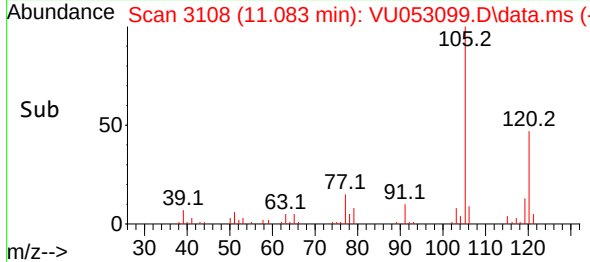
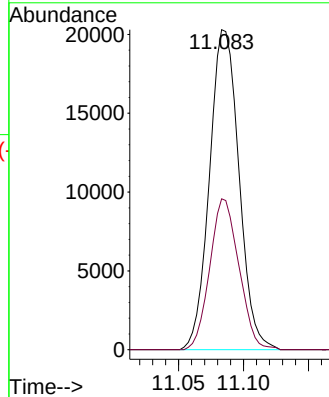
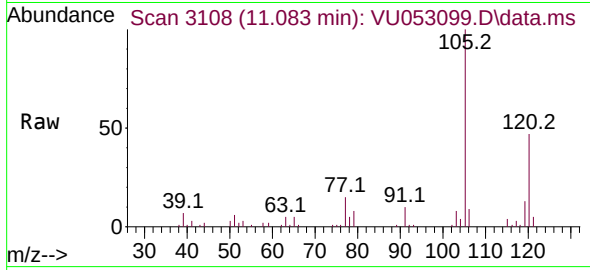
#62
1,3,5-Trimethylbenzene
Concen: 4.164 ug/L
RT: 11.083 min Scan# 3108
Delta R.T. -0.000 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02

Tgt Ion:105 Resp: 3203
Ion Ratio Lower Upper
105 100
120 46.5 37.2 55.8

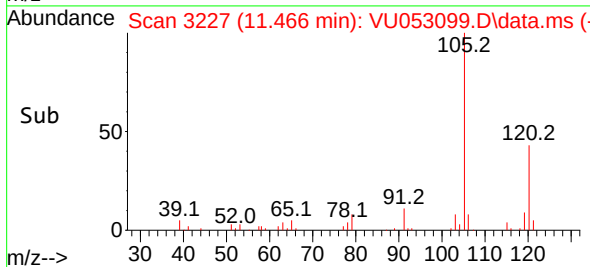
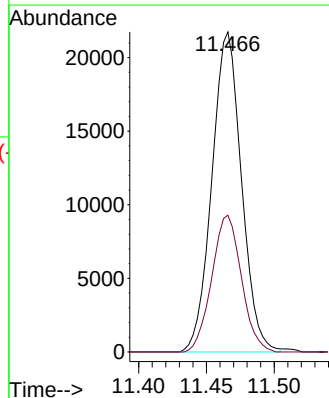
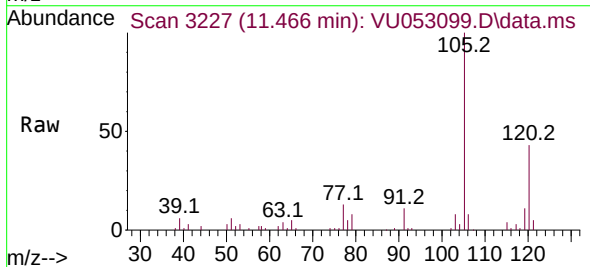
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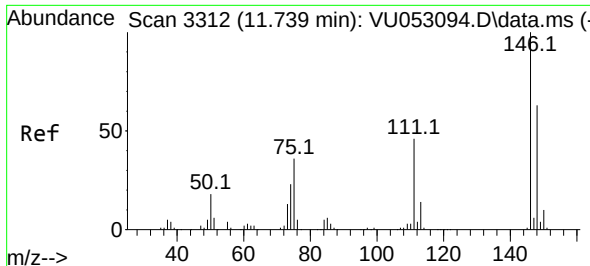
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#63
1,2,4-Trimethylbenzene
Concen: 4.428 ug/L
RT: 11.466 min Scan# 3227
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

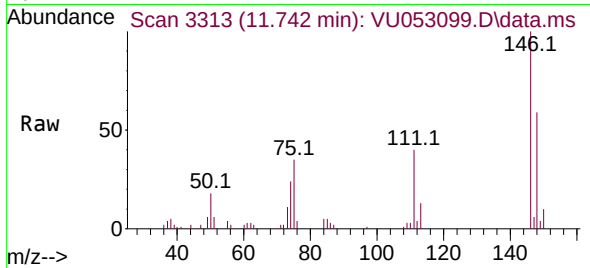
Tgt Ion:105 Resp: 32972
Ion Ratio Lower Upper
105 100
120 42.7 35.4 53.2





#64
1,3-Dichlorobenzene
Concen: 4.503 ug/L
RT: 11.742 min Scan# 3312
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

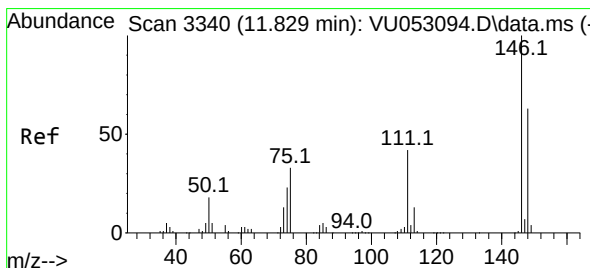
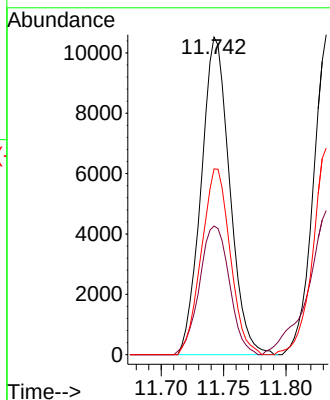
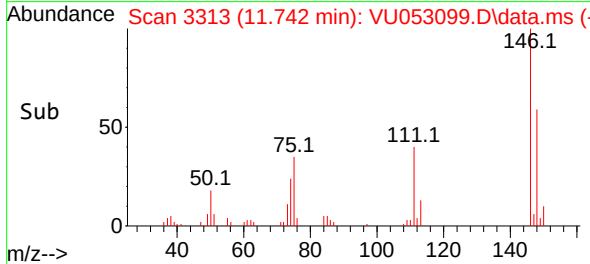
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



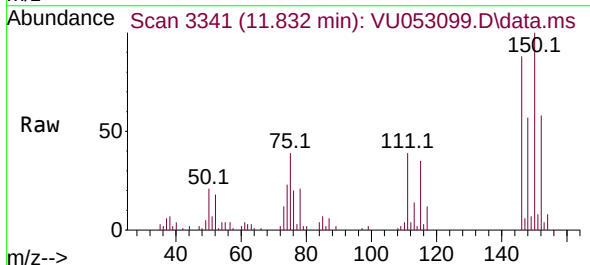
Tgt Ion:146 Resp: 16754
Ion Ratio Lower Upper
146 100
111 40.5 32.1 59.5
148 58.5 44.2 82.2

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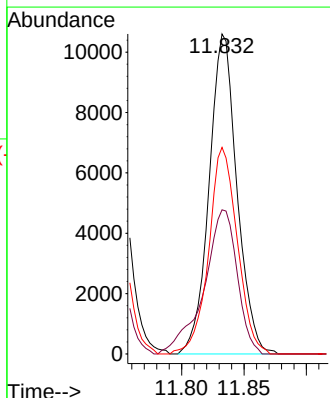
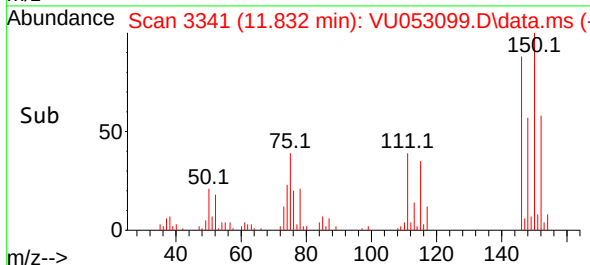
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023

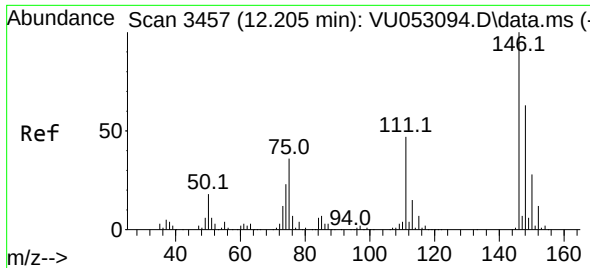


#65
1,4-Dichlorobenzene
Concen: 4.371 ug/L
RT: 11.832 min Scan# 3341
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14



Tgt Ion:146 Resp: 16498
Ion Ratio Lower Upper
146 100
111 45.1 29.9 55.5
148 64.6 44.0 81.6





#67

1,2-Dichlorobenzene

Concen: 4.488 ug/L

RT: 12.209 min Scan# 3457

Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2023-02

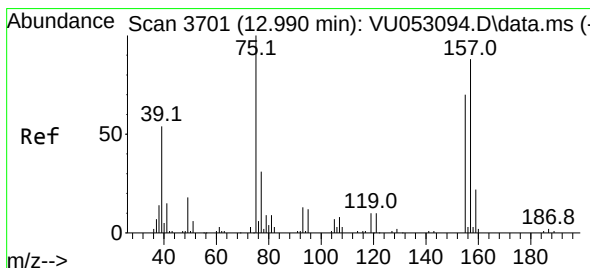
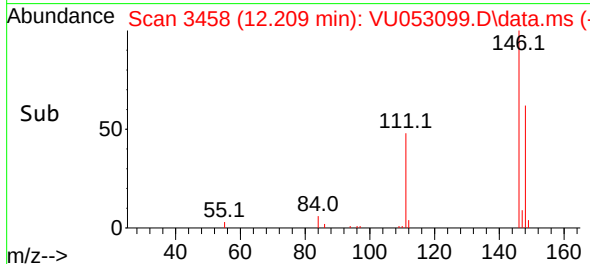
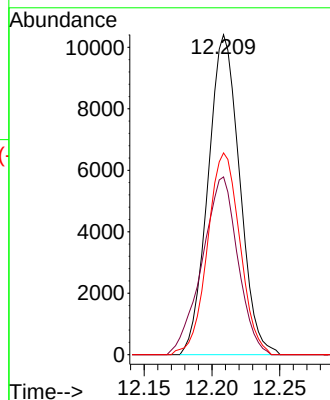
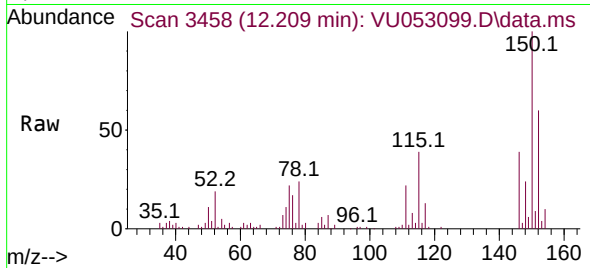
Tgt Ion:146 Resp: 16878
 Ion Ratio Lower Upper
 146 100
 111 55.6 37.8 56.6
 148 63.0 50.4 75.6

Manual Integrations

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Reviewed By :Krupa Patel 02/15/2023

Supervised By :Mahesh Dadoda 02/15/2023



#68

1,2-Dibromo-3-chloropropane

Concen: 5.240 ug/L

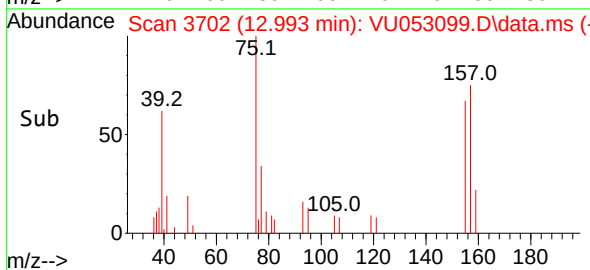
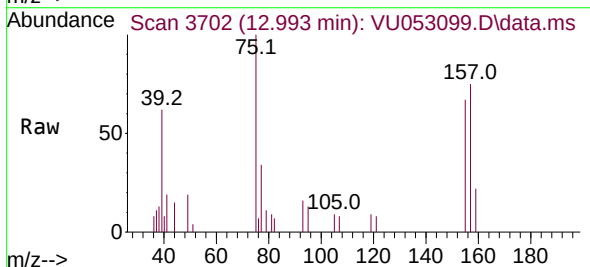
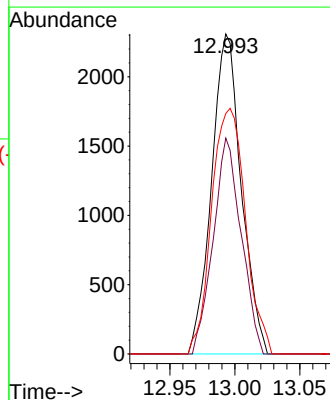
RT: 12.993 min Scan# 3702

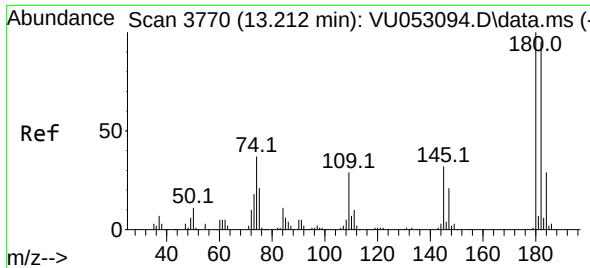
Delta R.T. 0.003 min

Lab File: VU053099.D

Acq: 14 Feb 2023 17:14

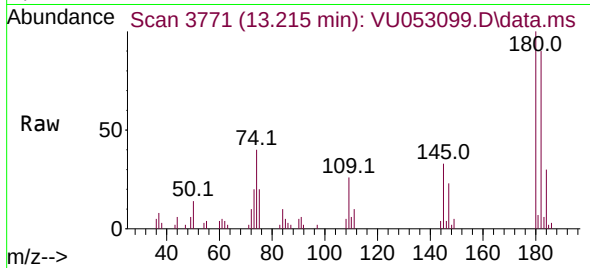
Tgt Ion: 75 Resp: 3669
 Ion Ratio Lower Upper
 75 100
 155 67.5 55.8 83.6
 157 75.1 70.7 106.1





#69
1,3,5-Trichlorobenzene
Concen: 3.806 ug/L
RT: 13.215 min Scan# 3771
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

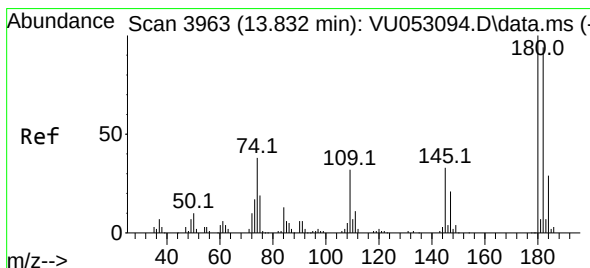
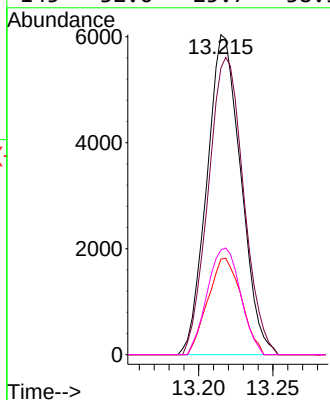
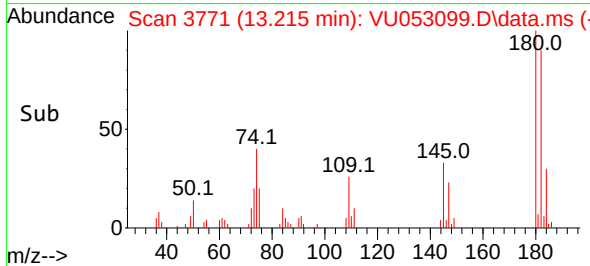
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



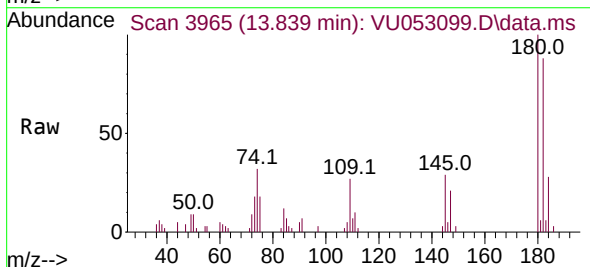
Tgt Ion:180 Resp: 9599
Ion Ratio Lower Upper
180 100
182 96.3 76.9 115.3
184 29.6 23.7 35.5
145 32.6 25.7 38.5

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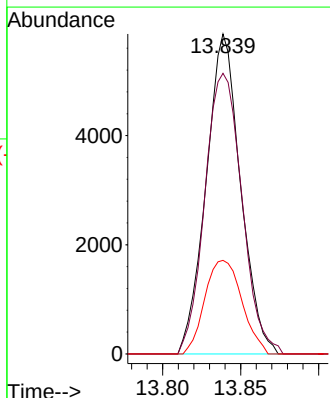
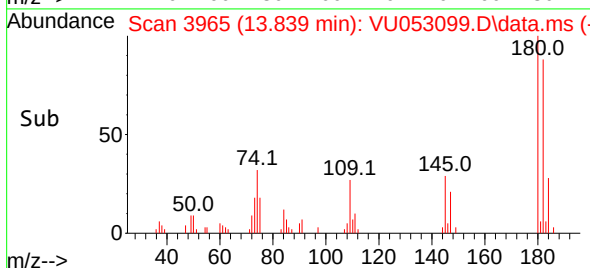
Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023

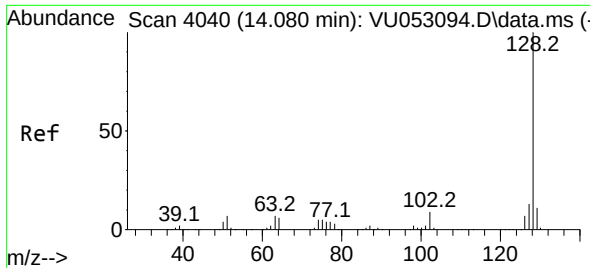


#70
1,2,4-trichlorobenzene
Concen: 3.762 ug/L
RT: 13.839 min Scan# 3965
Delta R.T. 0.006 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14



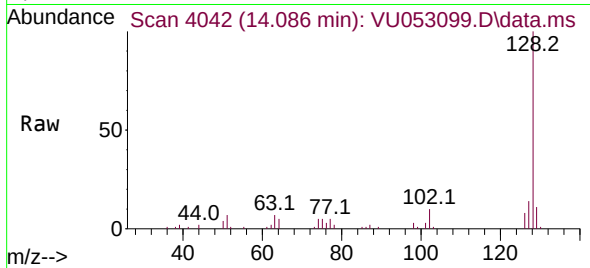
Tgt Ion:180 Resp: 8981
Ion Ratio Lower Upper
180 100
182 94.7 76.4 114.6
145 31.6 26.8 40.2





#71
Naphthalene
Concen: 3.602 ug/L
RT: 14.086 min Scan# 4040
Delta R.T. 0.006 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

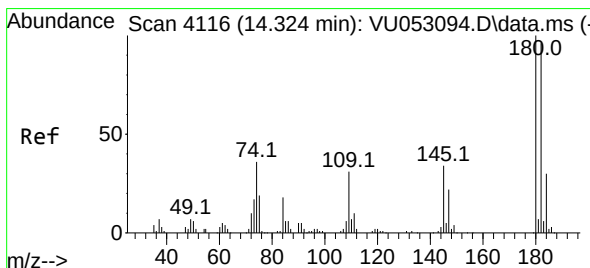
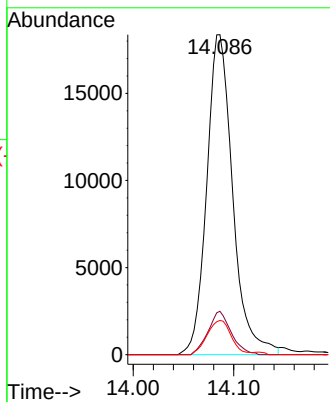
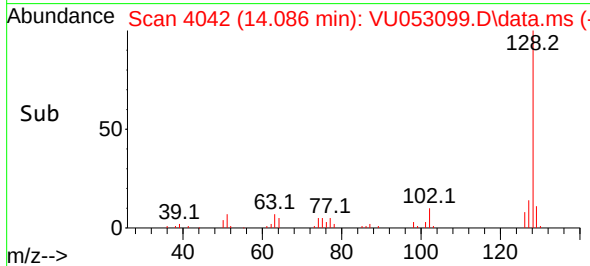
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2023-02



Tgt Ion:128 Resp: 33014
Ion Ratio Lower Upper
128 100
127 12.0 9.9 14.9
129 10.0 8.6 12.8

Manual Integrations
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Reviewed By :Krupa Patel 02/15/2023
Supervised By :Mahesh Dadoda 02/15/2023



#72
1,2,3-Trichlorobenzene
Concen: 4.016 ug/L
RT: 14.327 min Scan# 4117
Delta R.T. 0.003 min
Lab File: VU053099.D
Acq: 14 Feb 2023 17:14

Tgt Ion:180 Resp: 9627
Ion Ratio Lower Upper
180 100
182 93.3 75.4 113.2
145 35.4 28.2 42.2

