

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101023\
 Data File : VU055719.D
 Acq On : 10 Oct 2023 14:22
 Operator : MD/SY
 Sample : 04696-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT4-2023-07

Quant Time: Oct 11 06:03:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM101023WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 11 05:51:51 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/11/2023
 Supervised By : Mahesh Dadoda 10/11/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	383068	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	386260	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	197702	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	160261	46.642	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	93.280%		
7) Chloroethane-d5	1.885	69	135302	48.174	ug/L	-0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.340%		
11) 1,1-Dichloroethene-d2	2.557	63	221190	36.104	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	72.200%		
21) 2-Butanone-d5	4.615	46	251406	98.746	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	98.750%		
24) Chloroform-d	5.055	84	296200	44.967	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	89.940%		
26) 1,2-Dichloroethane-d4	5.695	65	195883	48.313	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.620%		
32) Benzene-d6	5.721	84	594709	48.121	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.240%		
36) 1,2-Dichloropropane-d6	6.685	67	192227	49.132	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	98.260%		
41) Toluene-d8	7.894	98	519855	46.585	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.160%		
43) trans-1,3-Dichloroprop...	8.174	79	89556	47.651	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	95.300%		
47) 2-Hexanone-d5	8.631	63	172650	112.249	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	112.250%		
56) 1,1,2,2-Tetrachloroeth...	10.753	84	317019	52.641	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	105.280%		
66) 1,2-Dichlorobenzene-d4	12.190	152	207912	52.994	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	105.980%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	7465	2.340	ug/L	98
3) Chloromethane	1.518	50	7927	2.626	ug/L	84
5) Vinyl chloride	1.602	62	9246	2.784	ug/L #	74
6) Bromomethane	1.830	94	5261	2.478	ug/L	97
8) Chloroethane	1.911	64	5971m	2.741	ug/L	
9) Trichlorofluoromethane	2.126	101	11857	2.499	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.570	101	8649	2.834	ug/L	89
12) 1,1-Dichloroethene	2.567	96	7657	2.820	ug/L #	1
13) Acetone	2.621	43	11935	5.052	ug/L	96
14) Carbon disulfide	2.785	76	21532	2.605	ug/L #	94
15) Methyl Acetate	2.943	43	9749	2.694	ug/L	93
17) trans-1,2-Dichloroethene	3.351	96	7309	2.632	ug/L	95
18) Methyl tert-butyl Ether	3.361	73	21347	2.390	ug/L #	78
19) 1,1-Dichloroethane	3.859	63	14189	2.492	ug/L	97
20) cis-1,2-Dichloroethene	4.663	96	8273	2.610	ug/L	82
22) 2-Butanone	4.711	43	16695m	5.863	ug/L	
23) Bromochloromethane	4.972	128	3928	2.393	ug/L	98
25) Chloroform	5.081	83	15701	2.639	ug/L	100
27) 1,2-Dichloroethane	5.791	62	11968	2.515	ug/L	97

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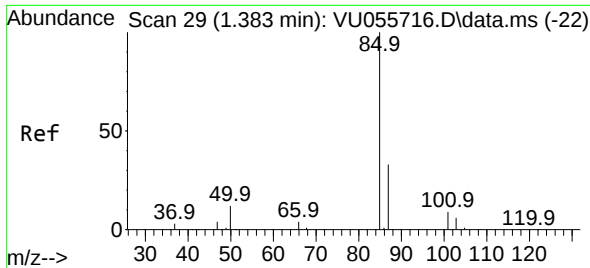
Quant Time: Oct 11 06:03:51 2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Cyclohexane	5.383	56	10286	2.323	ug/L	92
30) 1,1,1-Trichloroethane	5.312	97	12071	2.419	ug/L	97
31) Carbon tetrachloride	5.521	117	10192	2.333	ug/L	95
33) Benzene	5.769	78	30636	2.509	ug/L	100
34) Trichloroethene	6.541	95	8700	2.604	ug/L	89
35) Methylcyclohexane	6.759	83	12293	2.536	ug/L	92
37) 1,2-Dichloropropane	6.788	63	8790	2.614	ug/L #	95
38) Bromodichloromethane	7.103	83	10722	2.418	ug/L	95
39) cis-1,3-Dichloropropene	7.605	75	12338	2.412	ug/L	98
40) 4-Methyl-2-pentanone	7.791	43	25183	5.384	ug/L	95
42) Toluene	7.968	91	30377	2.358	ug/L	98
44) trans-1,3-Dichloropropene	8.209	75	12411	2.536	ug/L	95
45) 1,1,2-Trichloroethane	8.396	97	8649	2.609	ug/L	95
46) Tetrachloroethene	8.550	164	6059	2.533	ug/L	96
48) 2-Hexanone	8.685	43	44562	11.279	ug/L	97
49) Dibromochloromethane	8.807	129	8018	2.367	ug/L	96
50) 1,2-Dibromoethane	8.920	107	8554	2.402	ug/L #	93
51) Chlorobenzene	9.447	112	20685	2.481	ug/L	94
52) Ethylbenzene	9.569	91	32323	2.295	ug/L	96
53) m,p-Xylene	9.698	106	11915	2.258	ug/L	80
54) o-Xylene	10.100	106	12338	2.416	ug/L	76
55) Styrene	10.116	104	19176	2.217	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.778	83	17960	3.164	ug/L #	97
59) Bromoform	10.290	173	6357	2.612	ug/L #	92
60) 1,2,3-Trichloropropane	10.820	75	12972	3.023	ug/L	96
61) Isopropylbenzene	10.486	105	28986	2.352	ug/L	98
62) 1,3,5-Trimethylbenzene	11.087	105	22817	2.288	ug/L	98
63) 1,2,4-Trimethylbenzene	11.467	105	21814	2.212	ug/L	96
64) 1,3-Dichlorobenzene	11.743	146	15251	2.503	ug/L	97
65) 1,4-Dichlorobenzene	11.833	146	17308	2.763	ug/L	82
67) 1,2-Dichlorobenzene	12.209	146	17353	2.870	ug/L	97
68) 1,2-Dibromo-3-chloropr...	13.000	75	3581	2.792	ug/L	93
69) 1,3,5-Trichlorobenzene	13.219	180	9897	2.435	ug/L #	84
70) 1,2,4-trichlorobenzene	13.843	180	9514	2.811	ug/L	95
71) Naphthalene	14.090	128	27695	2.754	ug/L	98
72) 1,2,3-Trichlorobenzene	14.335	180	9492	2.844	ug/L	96

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



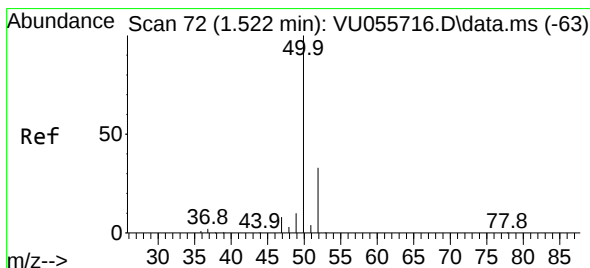
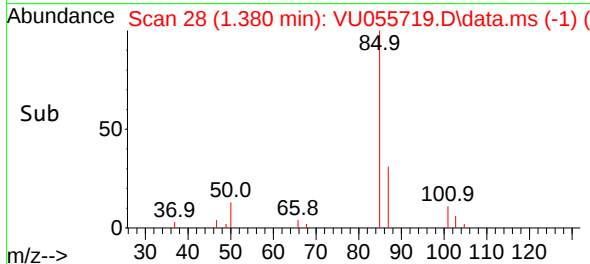
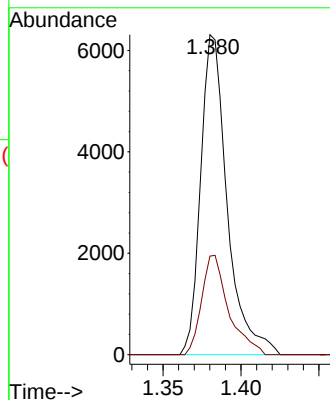
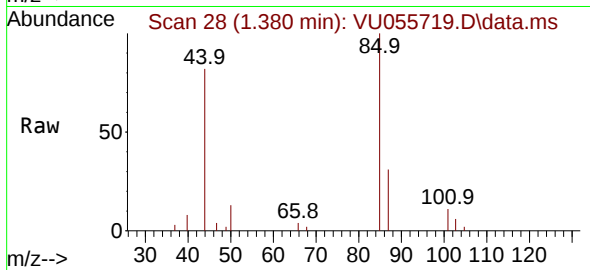
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Dichlorodifluoromethane
Concen: 2.340 ug/L
RT: 1.380 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07

Tgt Ion: 85 Resp: 746
Ion Ratio Lower Upper
85 100
87 31.5 26.0 39.0

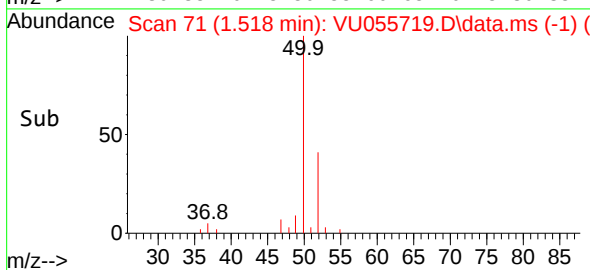
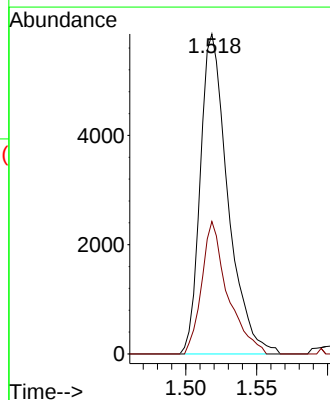
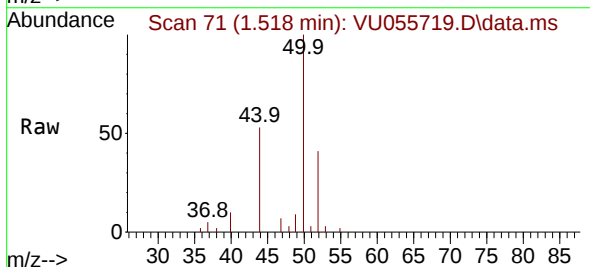
Manual Integrations
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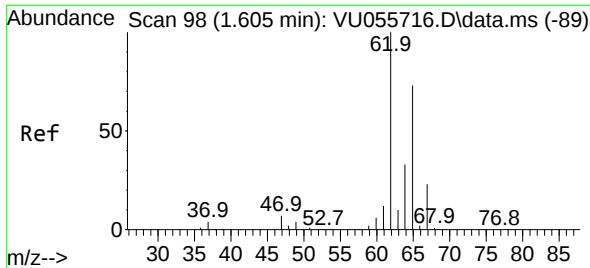
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#3
Chloromethane
Concen: 2.626 ug/L
RT: 1.518 min Scan# 71
Delta R.T. -0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

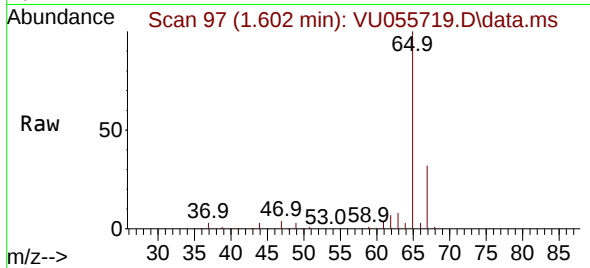
Tgt Ion: 50 Resp: 7927
Ion Ratio Lower Upper
50 100
52 41.4 22.8 42.4





#5
 Vinyl chloride
 Concen: 2.784 ug/L
 RT: 1.602 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU055719.D
 Acq: 10 Oct 2023 14:22

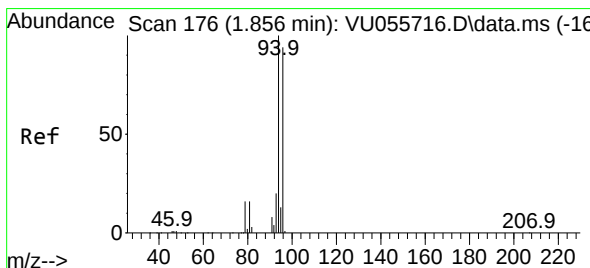
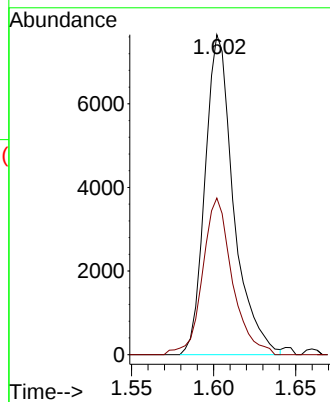
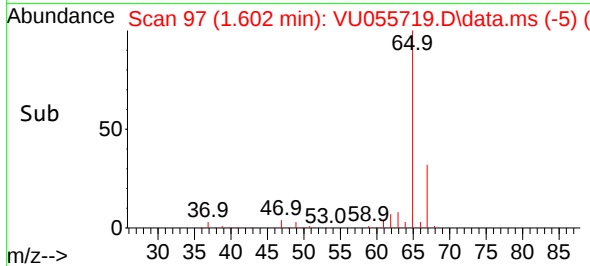
Instrument : MSVOA_U
 ClientSampleId : MDL-WATER-QT4-2023-07



Tgt Ion: 62 Resp: 9240
 Ion Ratio Lower Upper
 62 100
 64 48.9 23.9 44.5

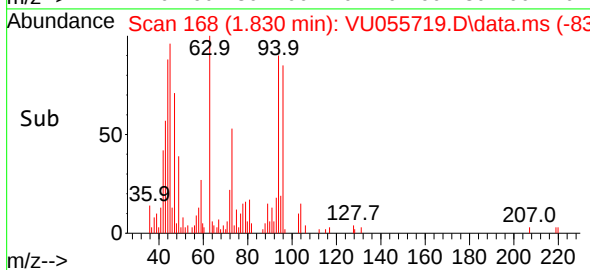
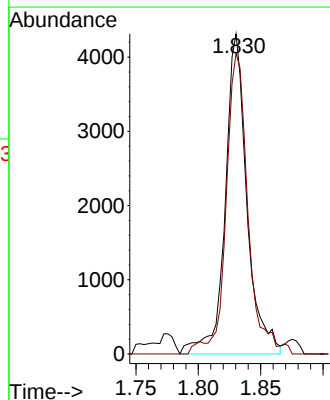
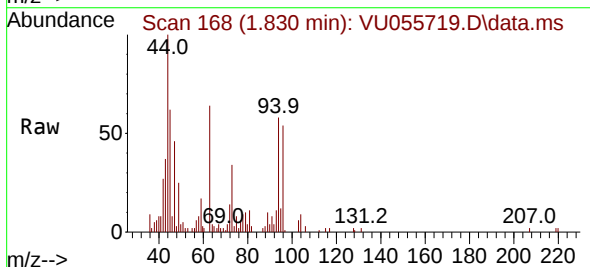
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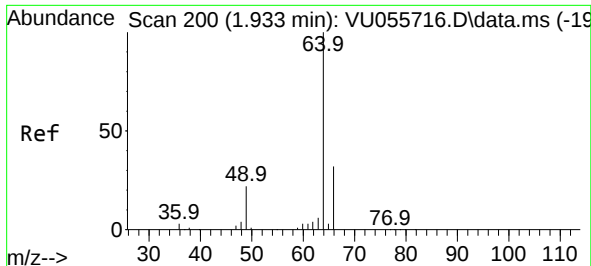
Reviewed By :John Carlone 10/11/2023
 Supervised By :Mahesh Dadoda 10/11/2023



#6
 Bromomethane
 Concen: 2.478 ug/L
 RT: 1.830 min Scan# 168
 Delta R.T. -0.026 min
 Lab File: VU055719.D
 Acq: 10 Oct 2023 14:22

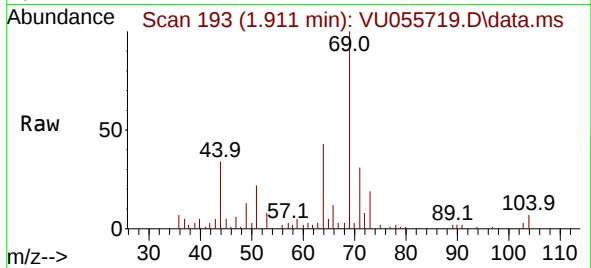
Tgt Ion: 94 Resp: 5261
 Ion Ratio Lower Upper
 94 100
 96 93.9 63.5 117.9





#8
Chloroethane
Concen: 2.741 ug/L m
RT: 1.911 min Scan# 193
Delta R.T. -0.022 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

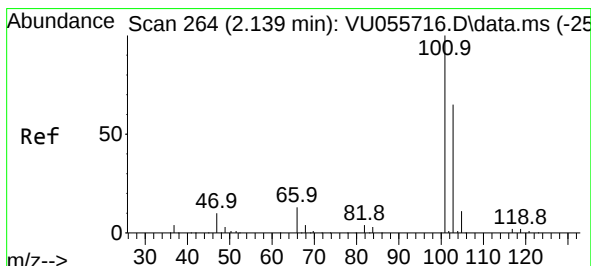
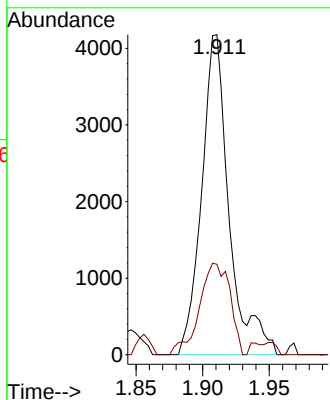
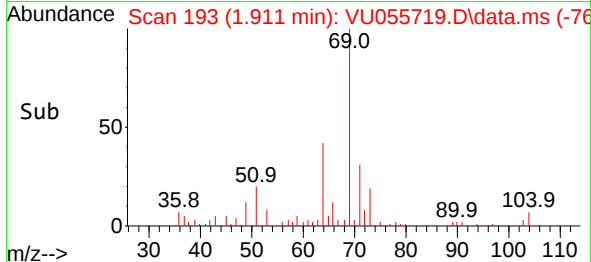
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT4-2023-07



Tgt Ion: 64 Resp: 597
Ion Ratio Lower Upper
64 100
66 6.5 22.9 42.5

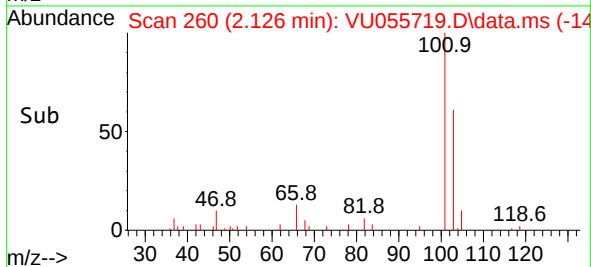
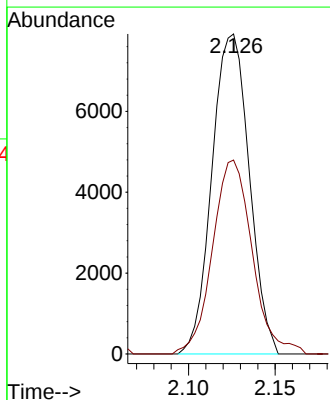
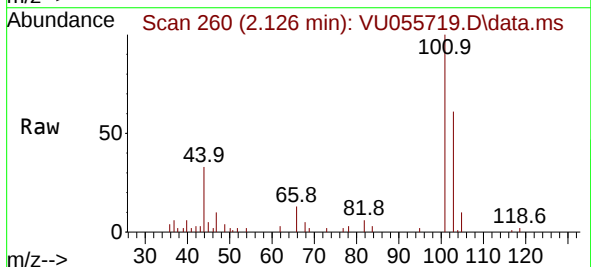
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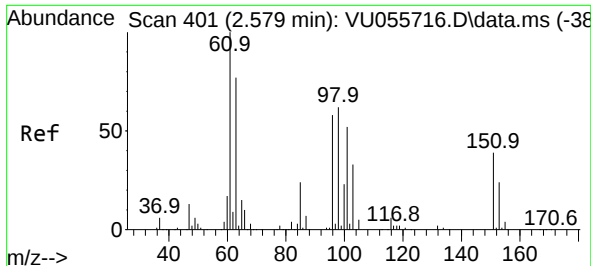
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#9
Trichlorofluoromethane
Concen: 2.499 ug/L
RT: 2.126 min Scan# 260
Delta R.T. -0.013 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion:101 Resp: 11857
Ion Ratio Lower Upper
101 100
103 64.4 51.3 76.9





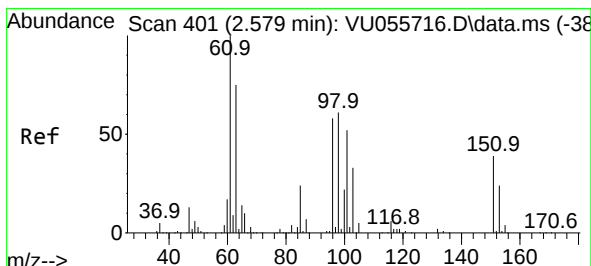
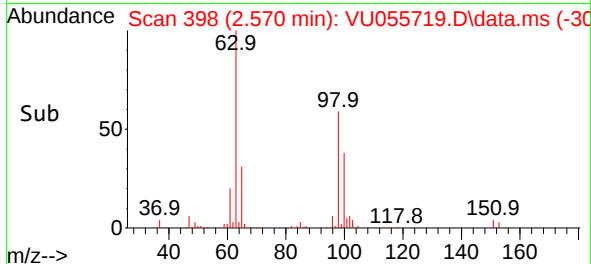
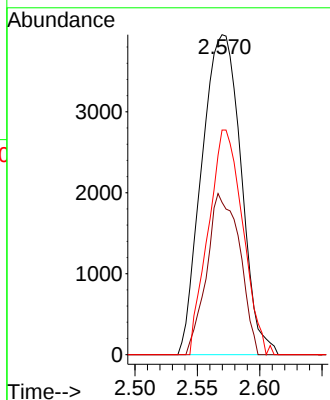
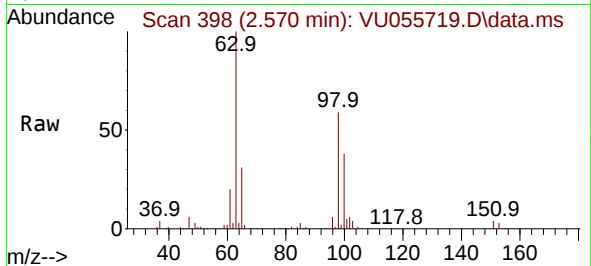
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1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.834 ug/L
RT: 2.570 min Scan# 398
Delta R.T. -0.010 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07

Tgt Ion:101 Resp: 8649
Ion Ratio Lower Upper
101 100
85 42.2 37.1 55.7
151 61.4 58.2 87.4

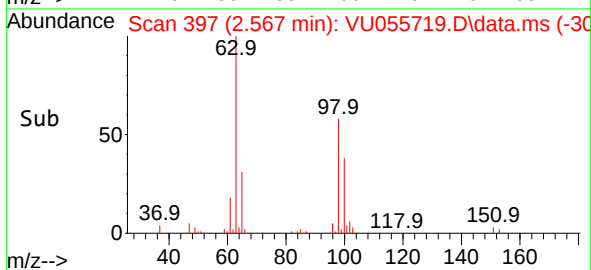
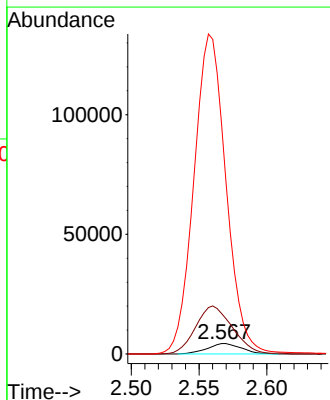
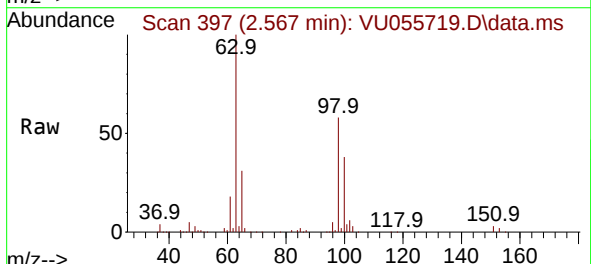
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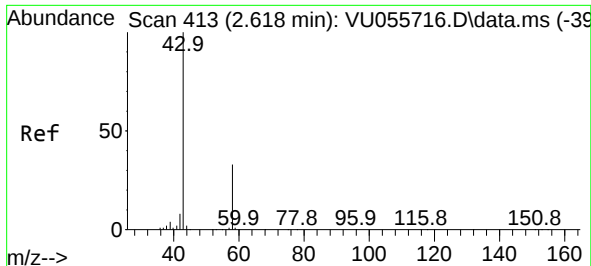
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#12
1,1-Dichloroethene
Concen: 2.820 ug/L
RT: 2.567 min Scan# 397
Delta R.T. -0.013 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion: 96 Resp: 7657
Ion Ratio Lower Upper
96 100
61 387.1 122.0 226.6#
63 2201.7 93.7 174.1#





#13

Acetone

Concen: 5.052 ug/L

RT: 2.621 min Scan# 413

Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

Tgt Ion: 43 Resp: 1193

Ion Ratio Lower Upper

43 100

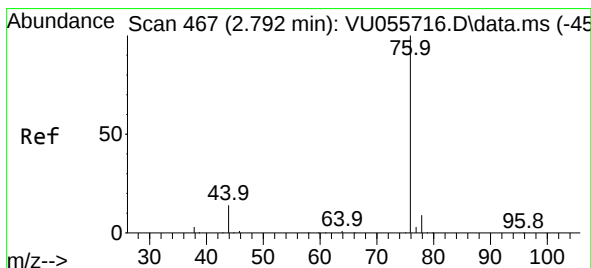
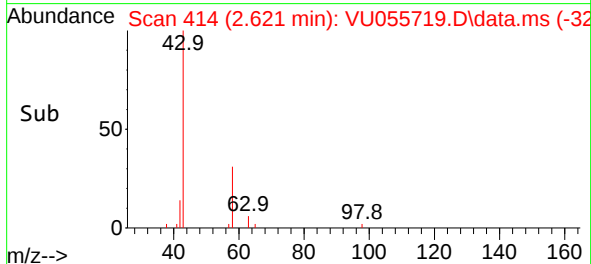
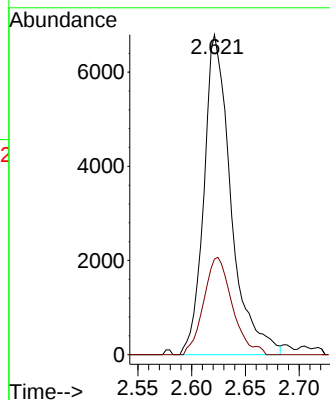
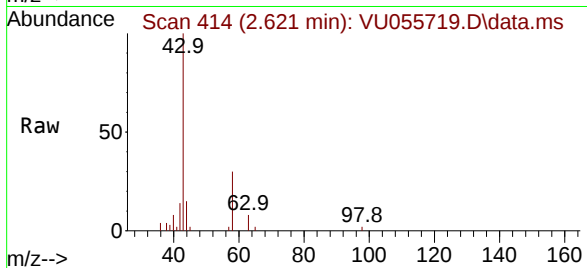
58 31.3 0.0 67.4

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 10/11/2023



#14

Carbon disulfide

Concen: 2.605 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.006 min

Lab File: VU055719.D

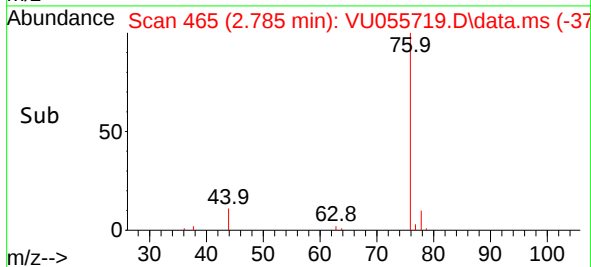
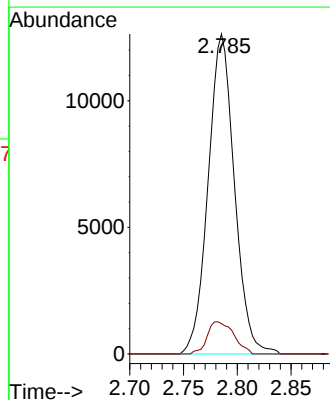
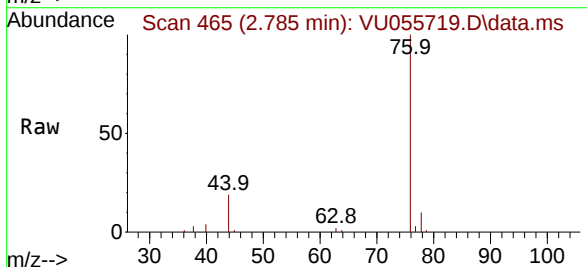
Acq: 10 Oct 2023 14:22

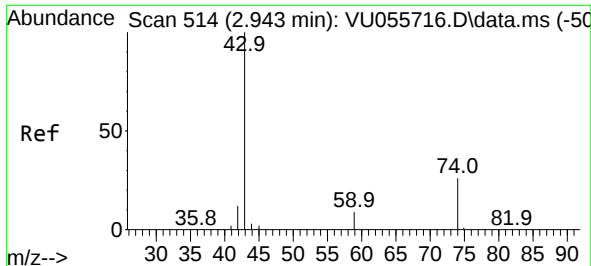
Tgt Ion: 76 Resp: 21532

Ion Ratio Lower Upper

76 100

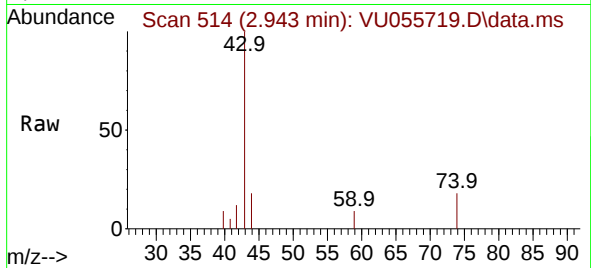
78 10.6 6.8 10.2#





#15
Methyl Acetate
Concen: 2.694 ug/L
RT: 2.943 min Scan# 514
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

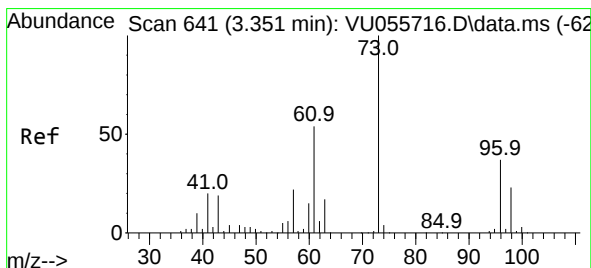
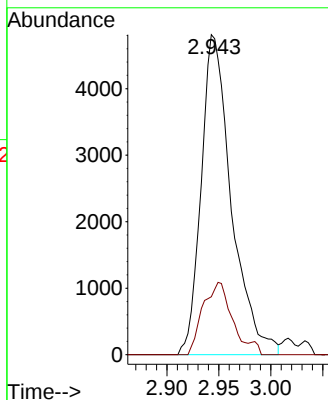
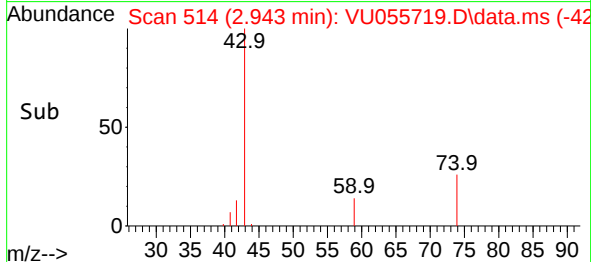
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



Tgt Ion: 43 Resp: 9749
Ion Ratio Lower Upper
43 100
74 21.2 19.5 29.3

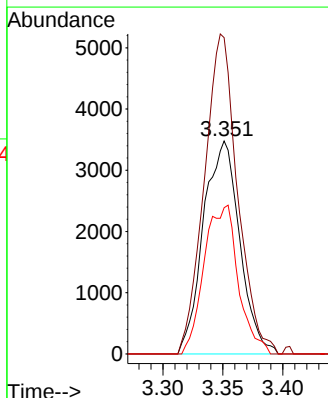
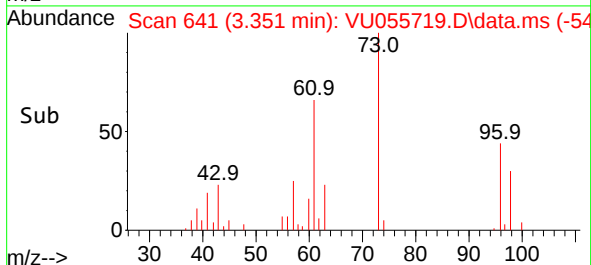
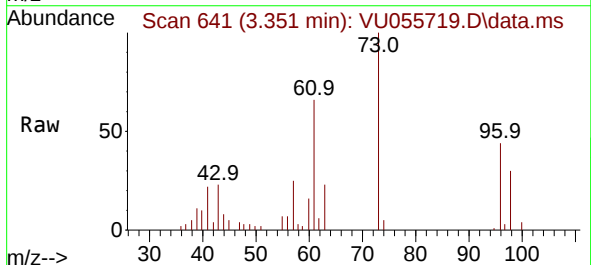
Manual Integrations
APPROVED

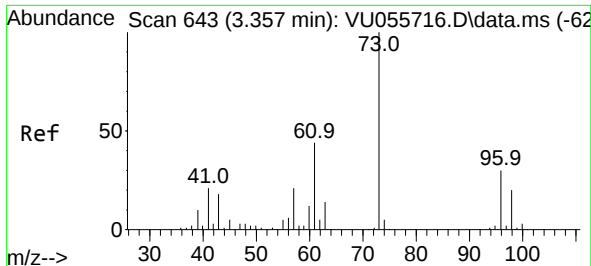
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#17
trans-1,2-Dichloroethene
Concen: 2.632 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

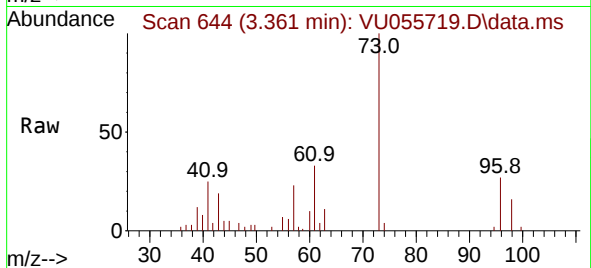
Tgt Ion: 96 Resp: 7309
Ion Ratio Lower Upper
96 100
61 138.1 102.1 189.7
98 63.9 46.3 86.1





#18
Methyl tert-butyl Ether
Concen: 2.390 ug/L
RT: 3.361 min Scan# 643
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

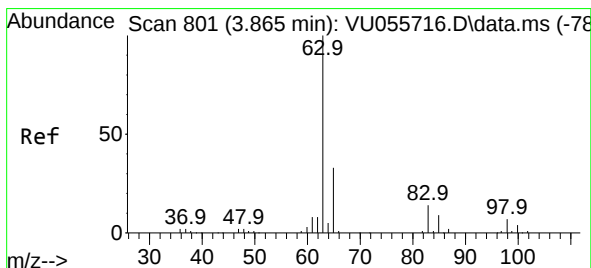
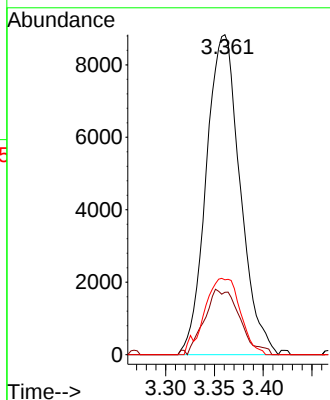
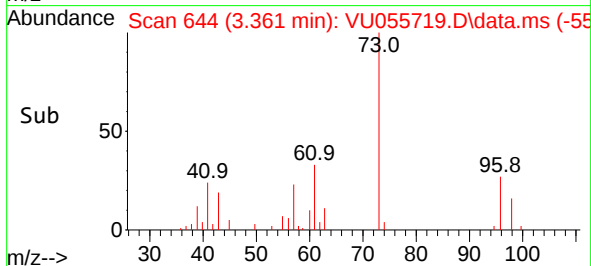
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



Tgt Ion: 73 Resp: 2134
Ion Ratio Lower Upper
73 100
43 10.8 15.4 23.2
57 10.5 17.7 26.5

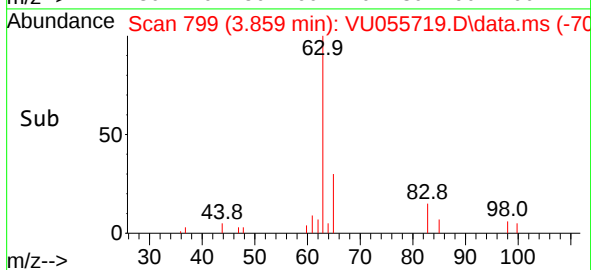
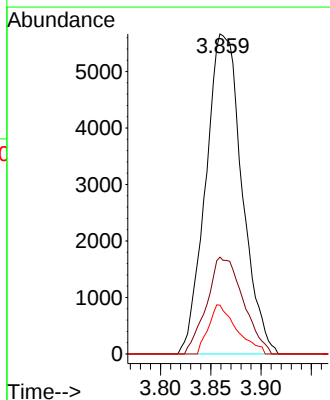
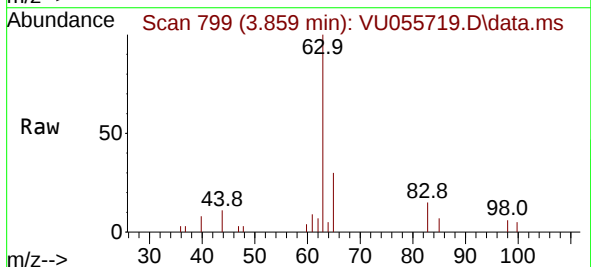
Manual Integrations
APPROVED

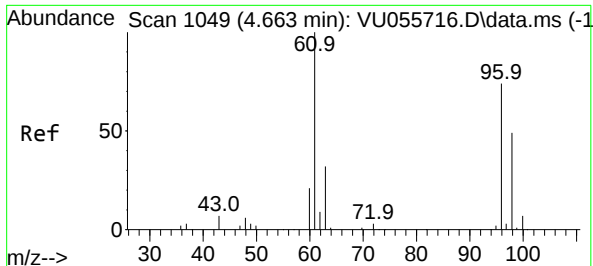
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#19
1,1-Dichloroethane
Concen: 2.492 ug/L
RT: 3.859 min Scan# 799
Delta R.T. -0.006 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion: 63 Resp: 14189
Ion Ratio Lower Upper
63 100
65 30.3 22.3 41.5
83 15.3 9.5 17.7





#20

cis-1,2-Dichloroethene

Concen: 2.610 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

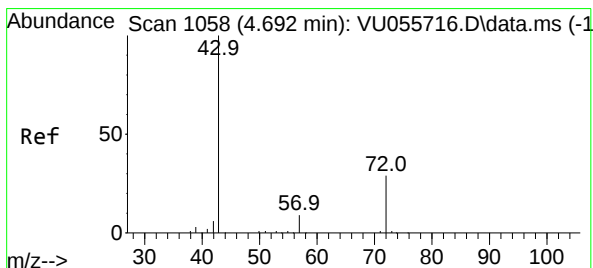
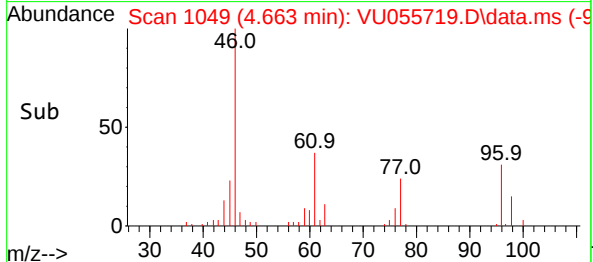
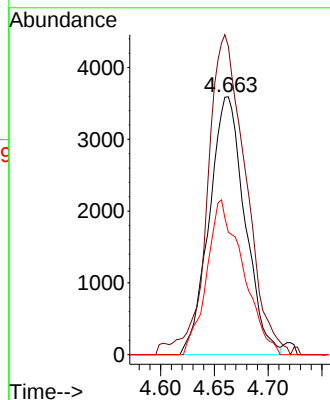
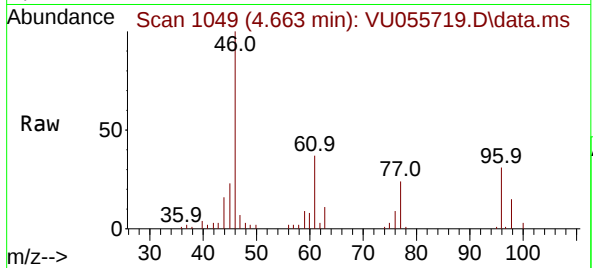
Tgt Ion: 96	Resp: 827
Ion Ratio	Lower Upper
96 100	
61 114.1	92.3 171.5
98 45.3	43.9 81.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#22

2-Butanone

Concen: 5.863 ug/L m

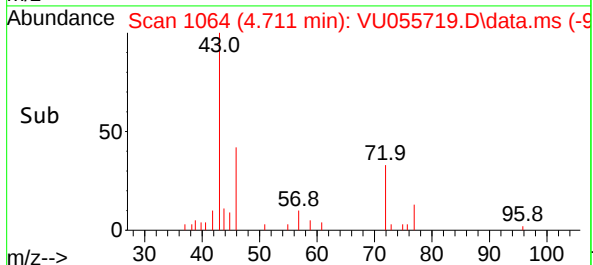
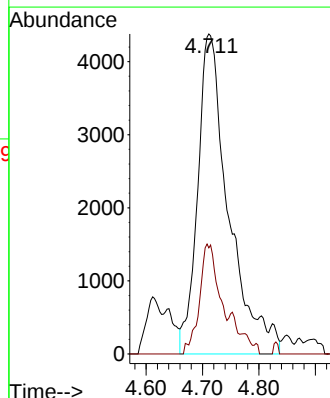
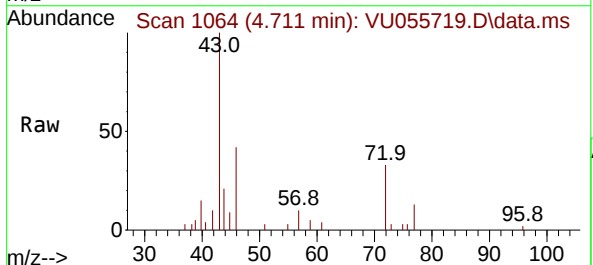
RT: 4.711 min Scan# 1064

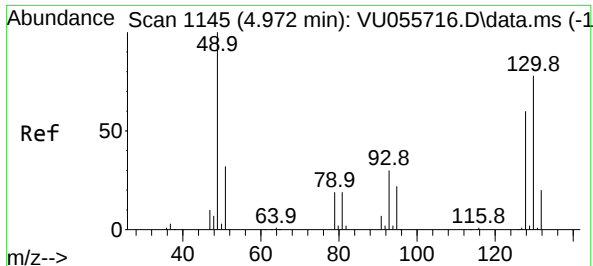
Delta R.T. 0.019 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Tgt Ion: 43	Resp: 16695
Ion Ratio	Lower Upper
43 100	
72 19.2	14.6 44.0





#23

Bromochloromethane

Concen: 2.393 ug/L

RT: 4.972 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VU055719.D

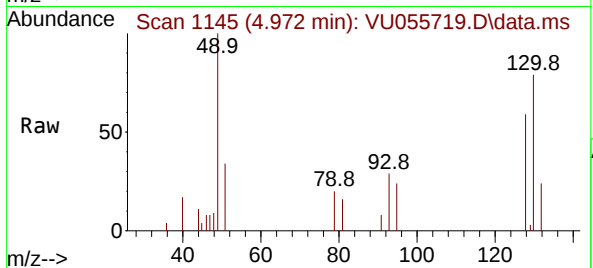
Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07



Tgt Ion:128 Resp: 3928

Ion Ratio Lower Upper

128 100

49 168.5 116.3 216.1

130 133.6 91.6 170.0

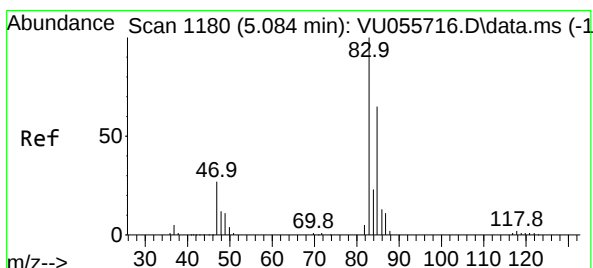
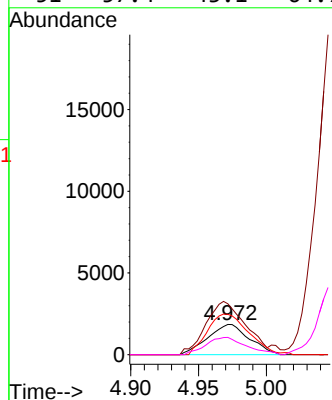
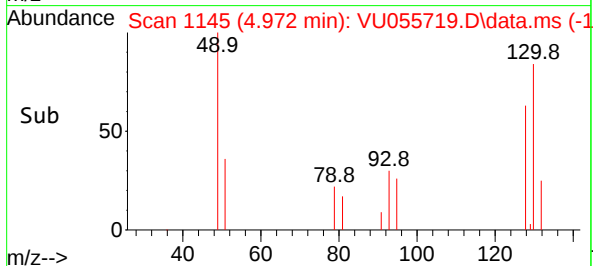
51 57.4 43.1 64.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#25

Chloroform

Concen: 2.639 ug/L

RT: 5.081 min Scan# 1179

Delta R.T. -0.003 min

Lab File: VU055719.D

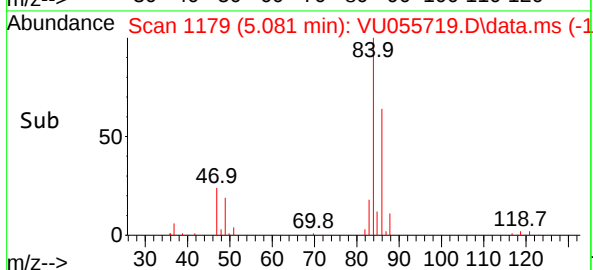
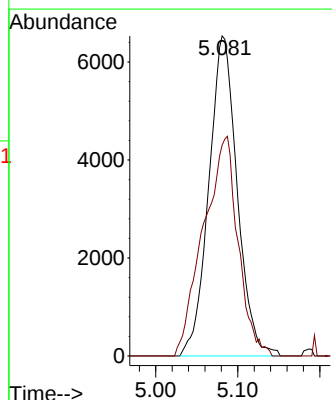
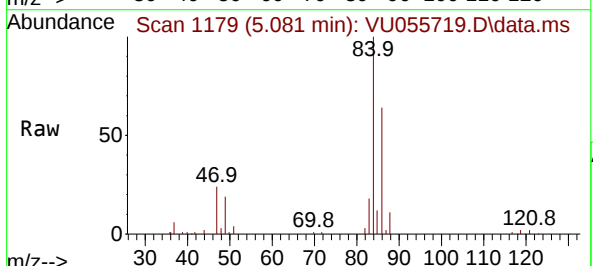
Acq: 10 Oct 2023 14:22

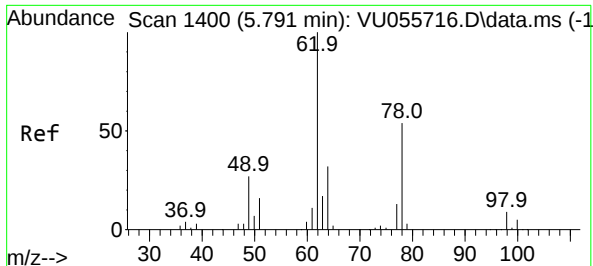
Tgt Ion: 83 Resp: 15701

Ion Ratio Lower Upper

83 100

85 65.9 46.3 86.1





#27

1,2-Dichloroethane

Concen: 2.515 ug/L

RT: 5.791 min Scan# 1400

Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

Tgt Ion: 62 Resp: 11968

Ion Ratio Lower Upper

62 100

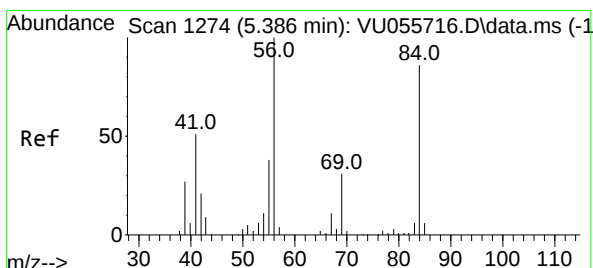
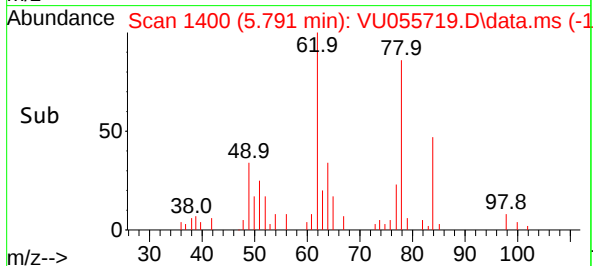
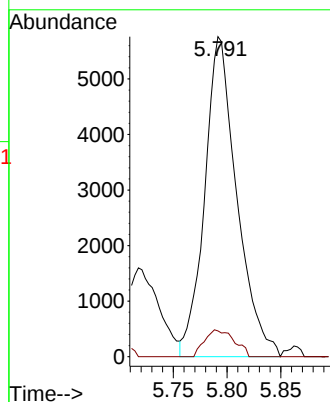
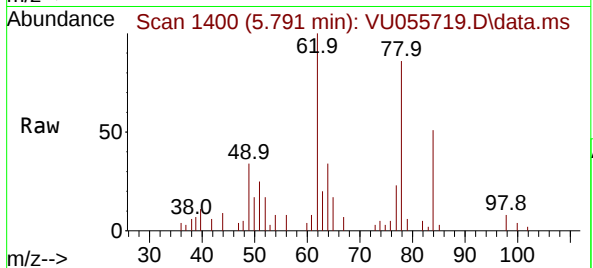
98 8.1 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#29

Cyclohexane

Concen: 2.323 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. -0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

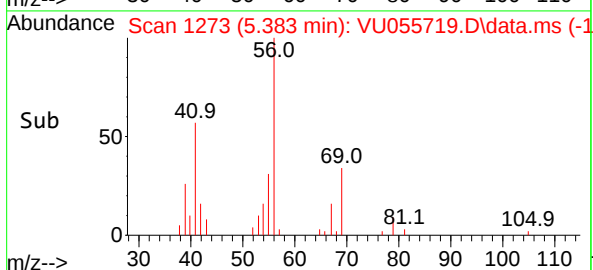
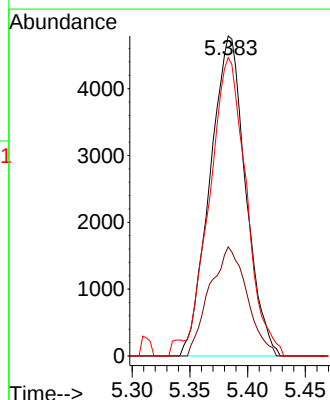
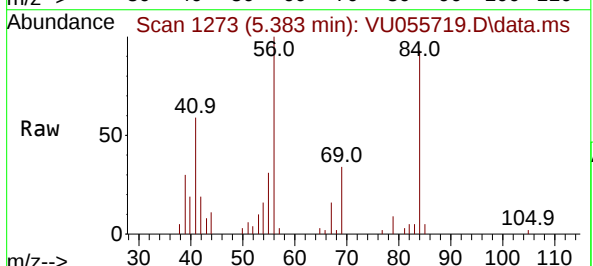
Tgt Ion: 56 Resp: 10286

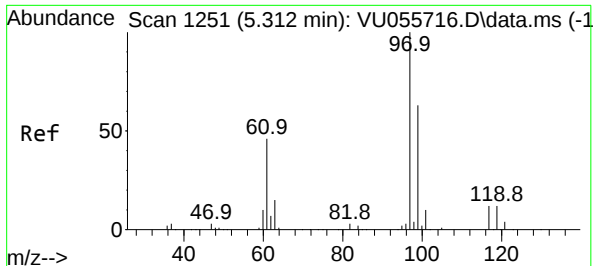
Ion Ratio Lower Upper

56 100

69 35.8 24.9 37.3

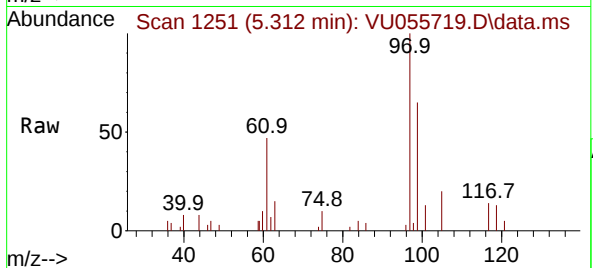
84 95.2 70.7 106.1





#30
1,1,1-Trichloroethane
Concen: 2.419 ug/L
RT: 5.312 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

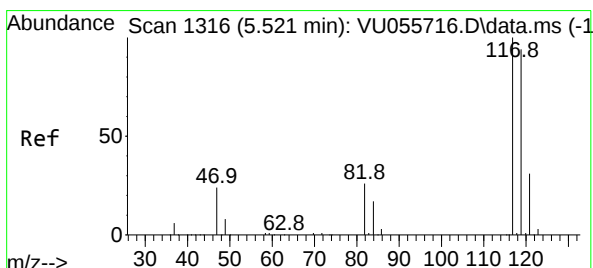
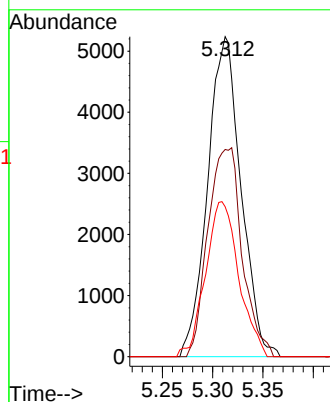
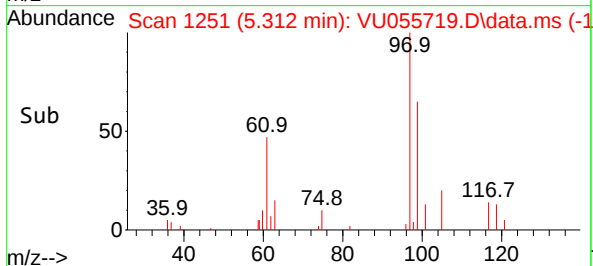
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



Tgt Ion: 97 Resp: 1207
Ion Ratio Lower Upper
97 100
99 67.0 51.6 77.4
61 47.7 36.8 55.2

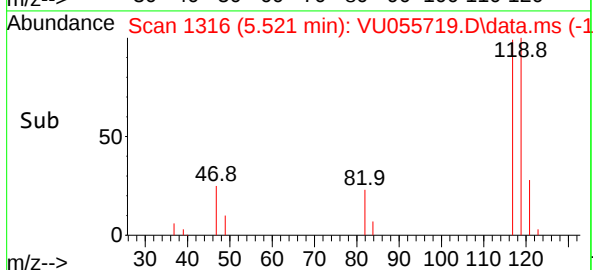
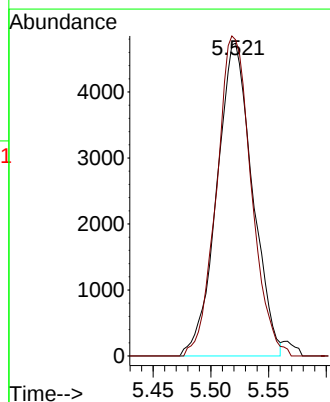
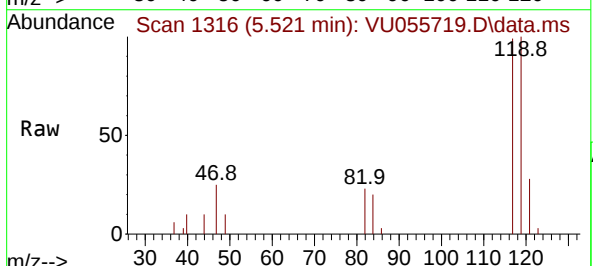
Manual Integrations
APPROVED

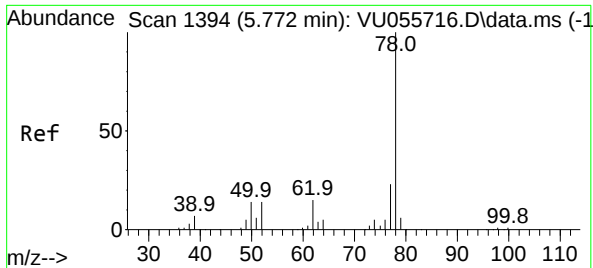
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#31
Carbon tetrachloride
Concen: 2.333 ug/L
RT: 5.521 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion:117 Resp: 10192
Ion Ratio Lower Upper
117 100
119 99.4 75.4 113.0





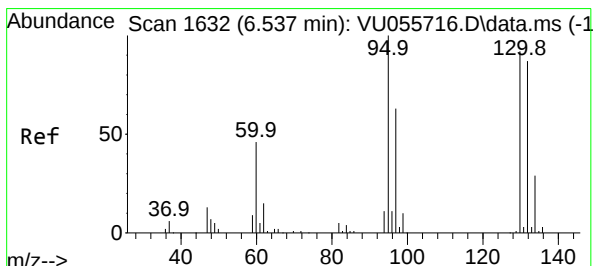
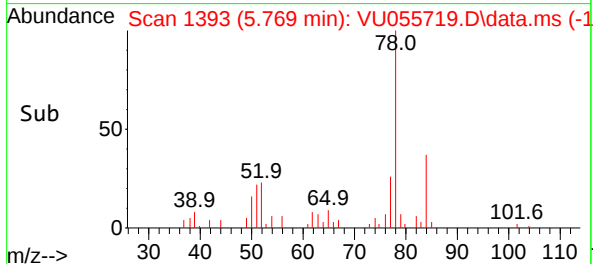
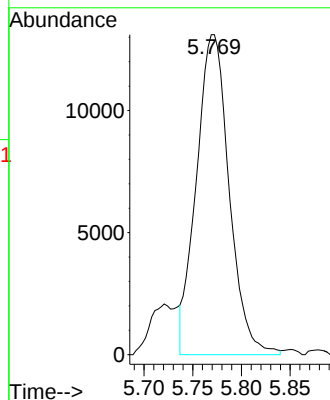
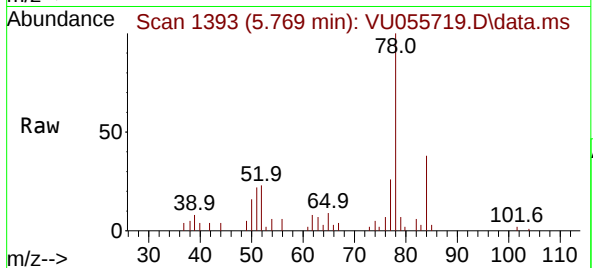
#33
Benzene
Concen: 2.509 ug/L
RT: 5.769 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07

Tgt Ion: 78 Resp: 3063

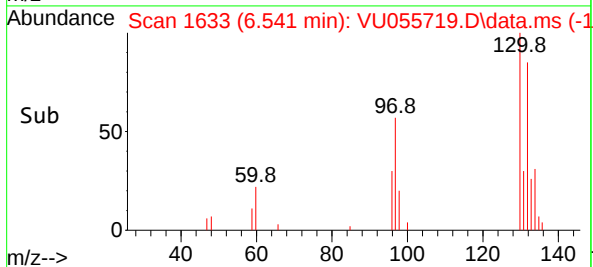
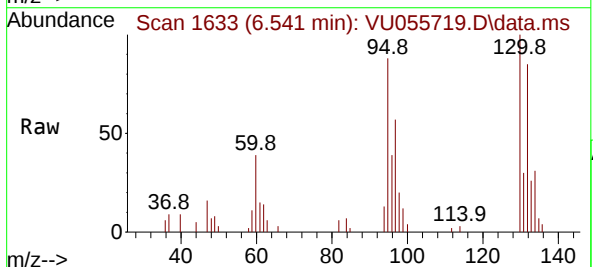
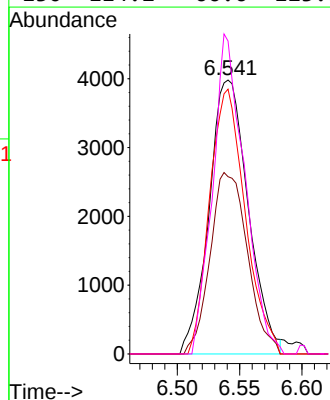
Manual Integrations
APPROVED

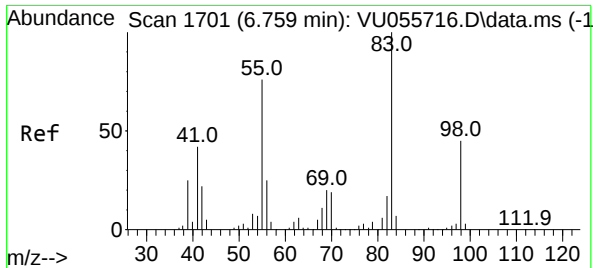
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#34
Trichloroethene
Concen: 2.604 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion: 95 Resp: 8700
Ion Ratio Lower Upper
95 100
97 64.7 44.4 82.5
132 96.6 61.8 114.8
130 114.2 66.6 123.8





#35

Methylcyclohexane

Concen: 2.536 ug/L

RT: 6.759 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

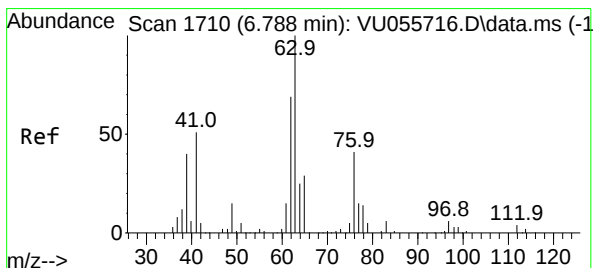
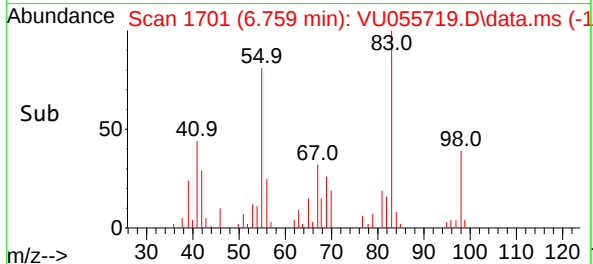
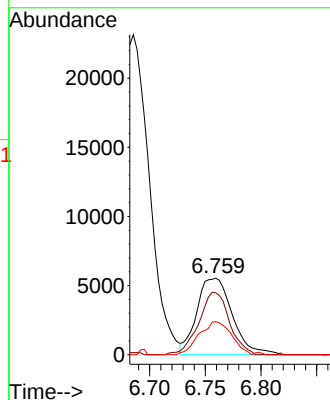
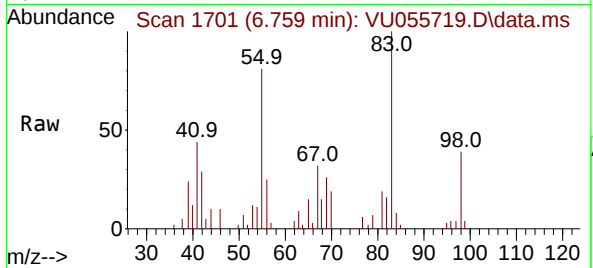
Tgt Ion: 83 Resp: 1229
 Ion Ratio Lower Upper
 83 100
 55 70.2 61.2 91.8
 98 39.2 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#37

1,2-Dichloropropane

Concen: 2.614 ug/L

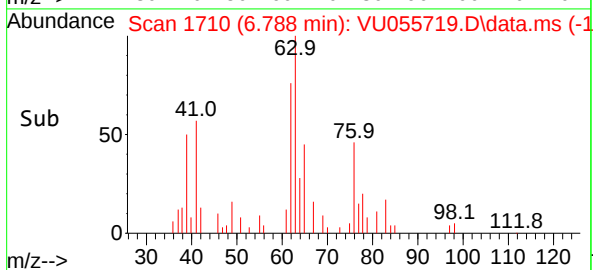
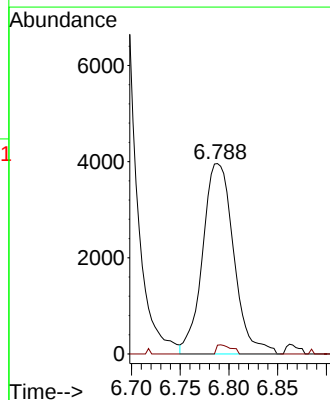
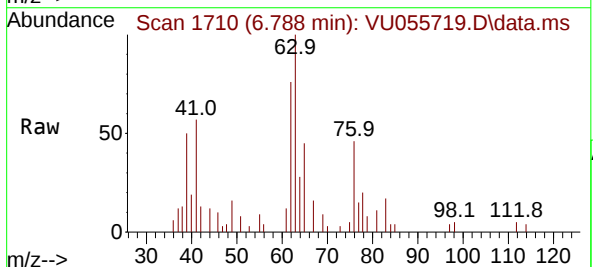
RT: 6.788 min Scan# 1710

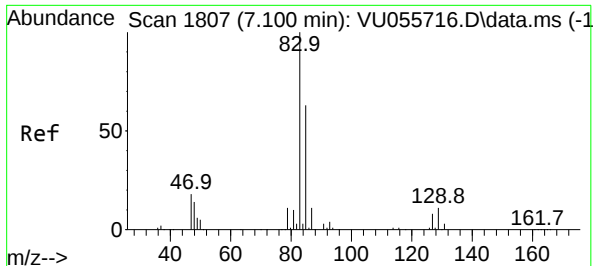
Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Tgt Ion: 63 Resp: 8790
 Ion Ratio Lower Upper
 63 100
 112 2.0 3.0 4.4#





#38

Bromodichloromethane

Concen: 2.418 ug/L

RT: 7.103 min Scan# 1807

Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

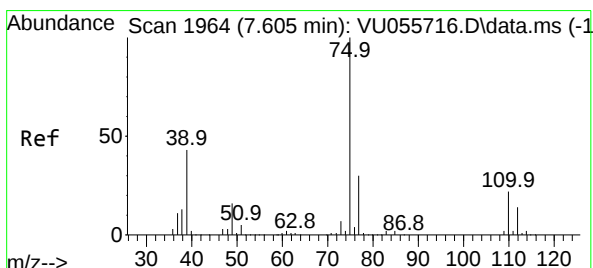
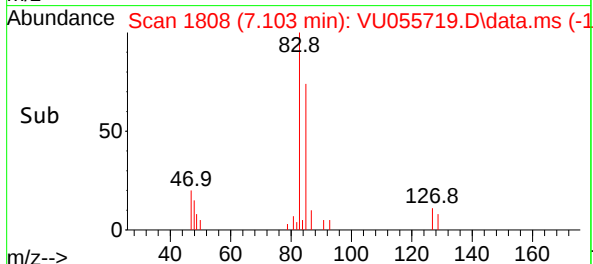
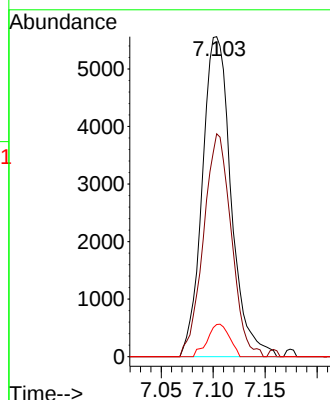
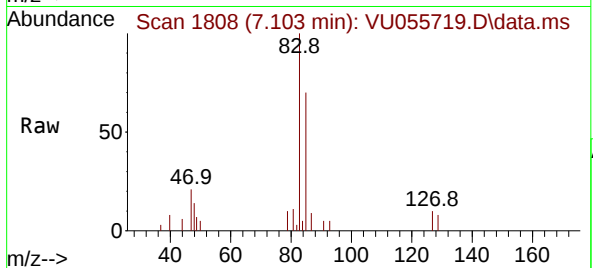
Tgt Ion:	83	Resp:	1072
Ion Ratio	Lower	Upper	
83	100		
85	69.6	46.0	85.4
127	10.1	7.0	10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#39

cis-1,3-Dichloropropene

Concen: 2.412 ug/L

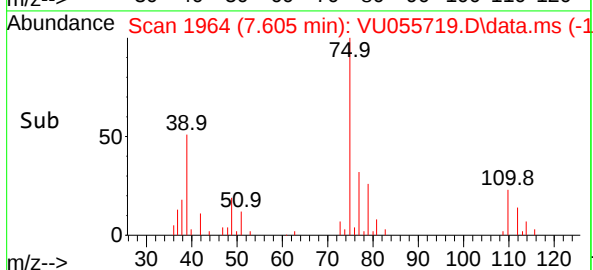
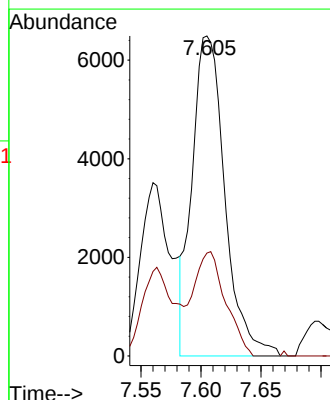
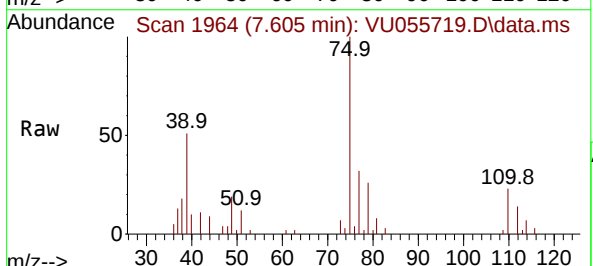
RT: 7.605 min Scan# 1964

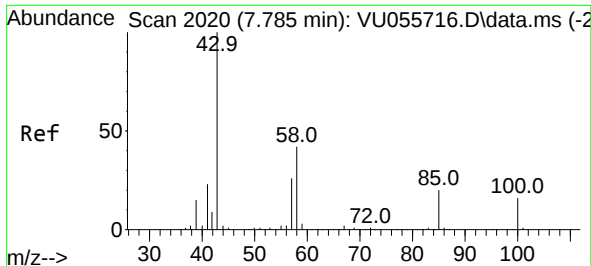
Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Tgt Ion:	75	Resp:	12338
Ion Ratio	Lower	Upper	
75	100		
77	32.2	21.7	40.3





#40

4-Methyl-2-pentanone

Concen: 5.384 ug/L

RT: 7.791 min Scan# 2020

Delta R.T. 0.006 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

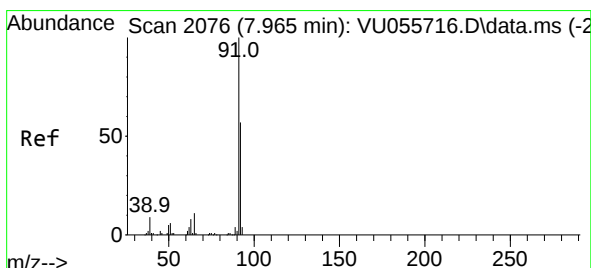
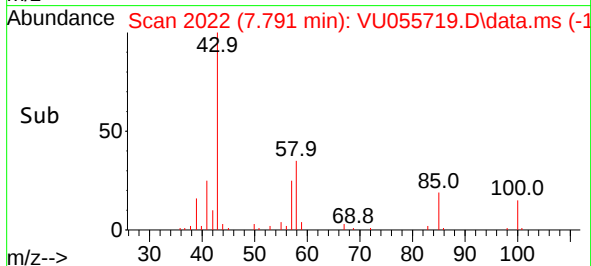
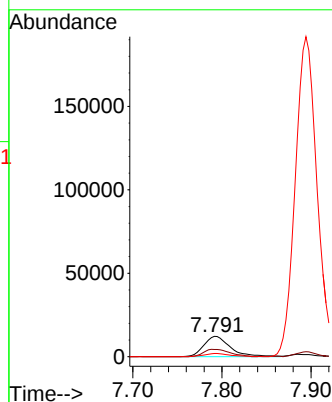
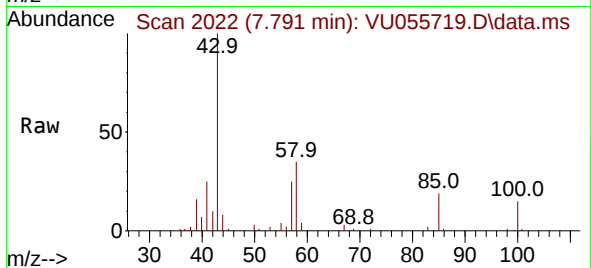
Tgt Ion:	43	Resp:	2518
Ion Ratio	Lower	Upper	
43	100		
58	36.0	32.3	48.5
100	15.4	12.0	18.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#42

Toluene

Concen: 2.358 ug/L

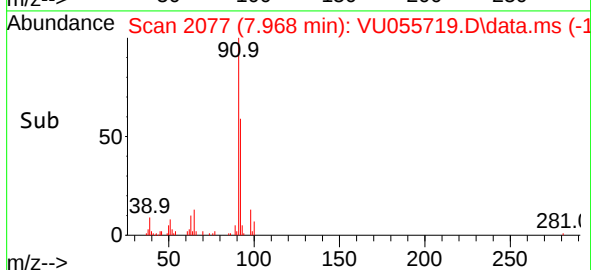
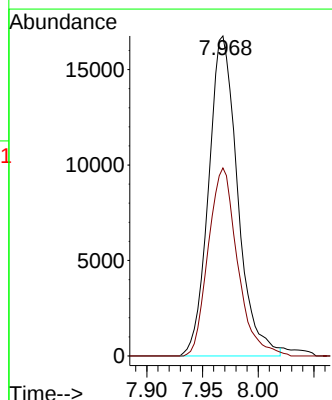
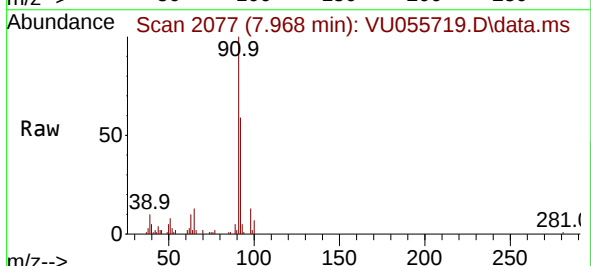
RT: 7.968 min Scan# 2077

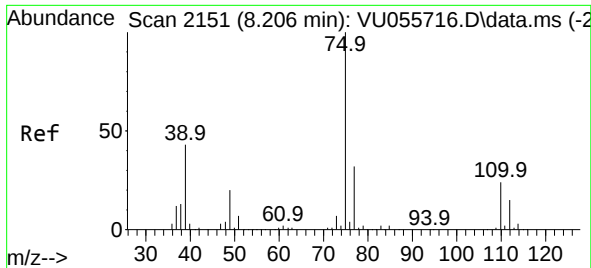
Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Tgt Ion:	91	Resp:	30377
Ion Ratio	Lower	Upper	
91	100		
92	58.8	40.0	74.4





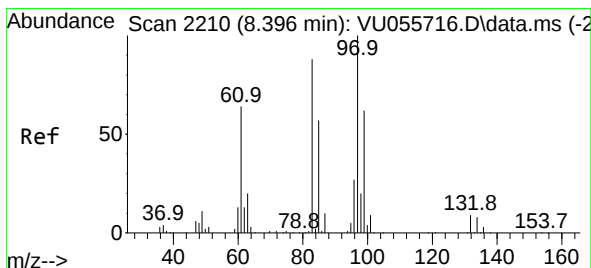
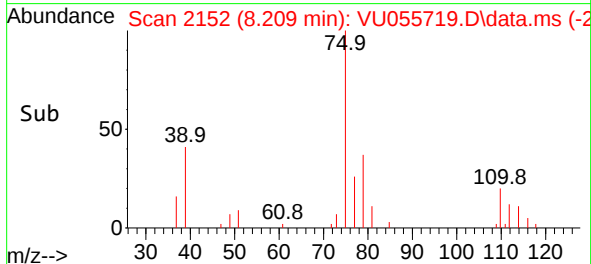
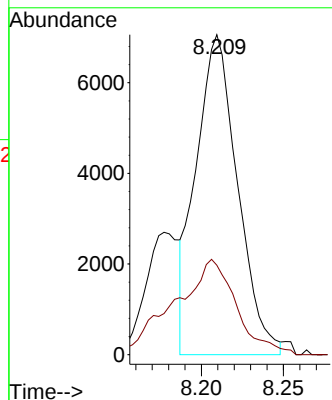
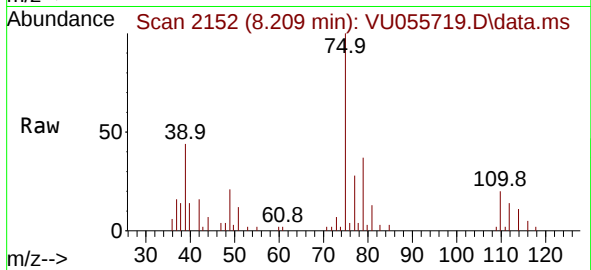
#44
trans-1,3-Dichloropropene
Concen: 2.536 ug/L
RT: 8.209 min Scan# 2151
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07

Tgt Ion: 75 Resp: 1241
Ion Ratio Lower Upper
75 100
77 27.9 21.6 40.2

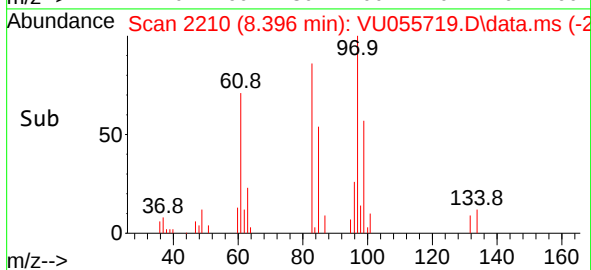
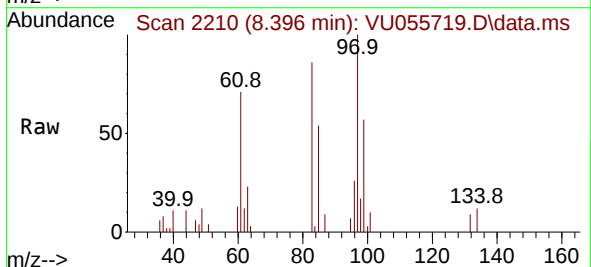
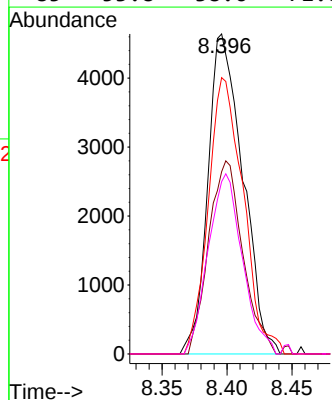
Manual Integrations
APPROVED

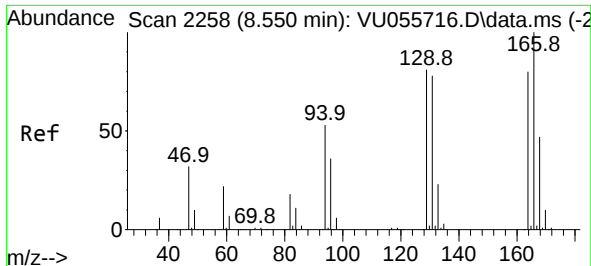
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#45
1,1,2-Trichloroethane
Concen: 2.609 ug/L
RT: 8.396 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

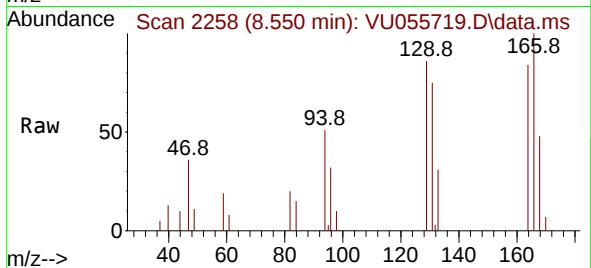
Tgt Ion: 97 Resp: 8649
Ion Ratio Lower Upper
97 100
99 56.9 44.4 82.5
83 89.4 60.4 112.2
85 53.8 38.6 71.8





#46
Tetrachloroethene
Concen: 2.533 ug/L
RT: 8.550 min Scan# 2100
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

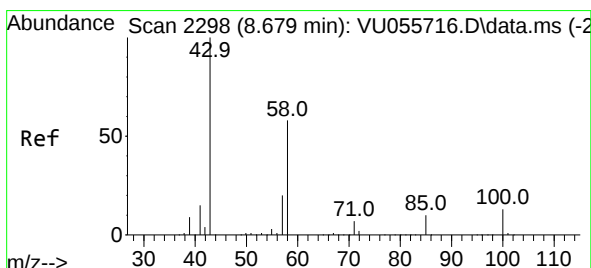
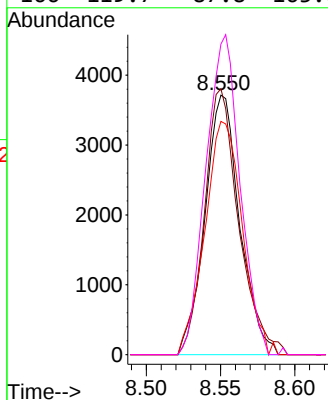
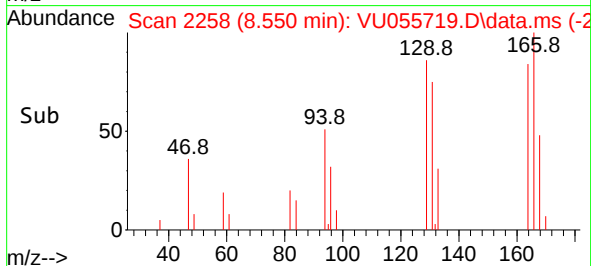
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



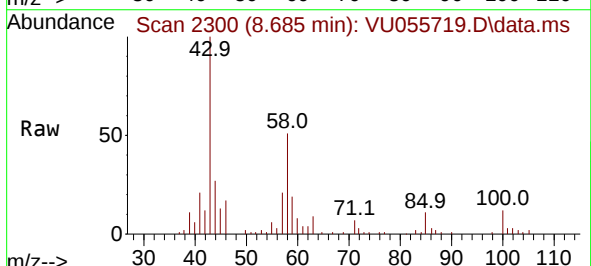
Tgt Ion:164 Resp: 6059
Ion Ratio Lower Upper
164 100
129 102.5 70.7 131.3
131 89.9 65.9 122.5
166 119.7 87.8 163.0

Manual Integrations
APPROVED

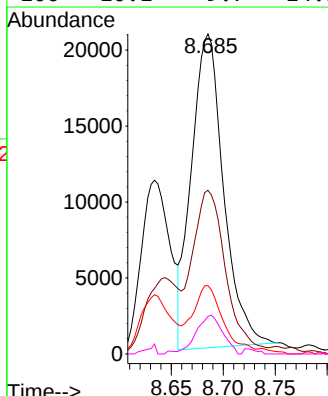
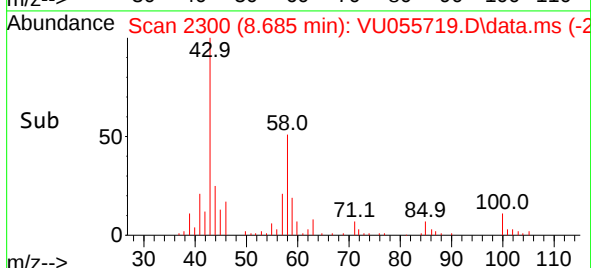
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023

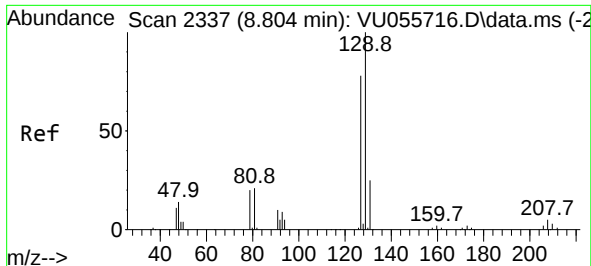


#48
2-Hexanone
Concen: 11.279 ug/L
RT: 8.685 min Scan# 2300
Delta R.T. 0.006 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22



Tgt Ion: 43 Resp: 44562
Ion Ratio Lower Upper
43 100
58 54.3 45.2 67.8
57 20.9 16.1 24.1
100 10.1 9.7 14.5





#49

Dibromochloromethane

Concen: 2.367 ug/L

RT: 8.807 min Scan# 2338

Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

Tgt Ion:129 Resp: 8018

Ion Ratio Lower Upper

129 100

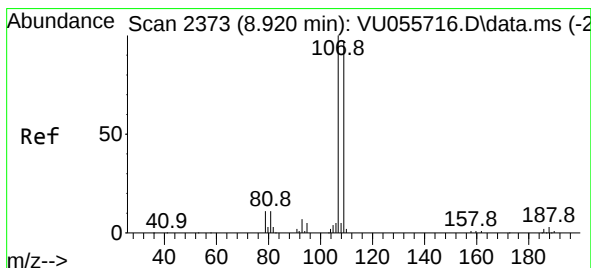
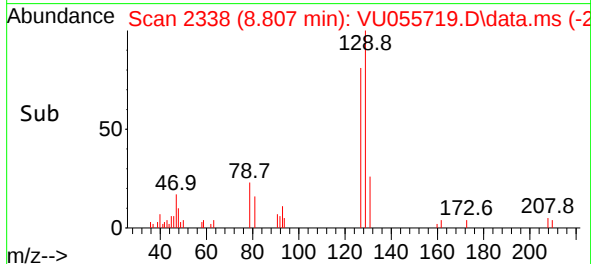
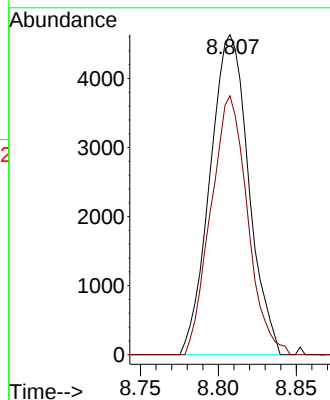
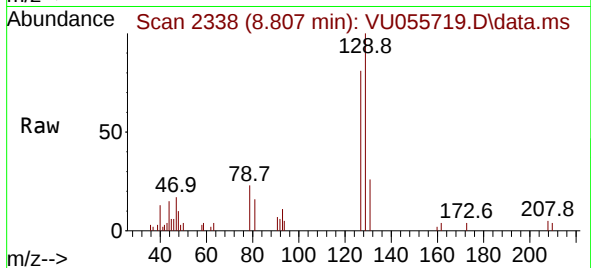
127 80.9 54.0 100.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#50

1,2-Dibromoethane

Concen: 2.402 ug/L

RT: 8.920 min Scan# 2373

Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

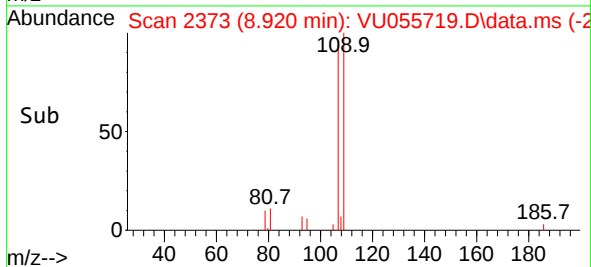
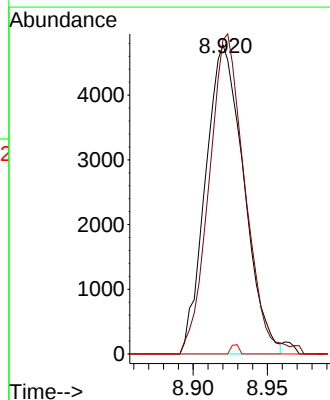
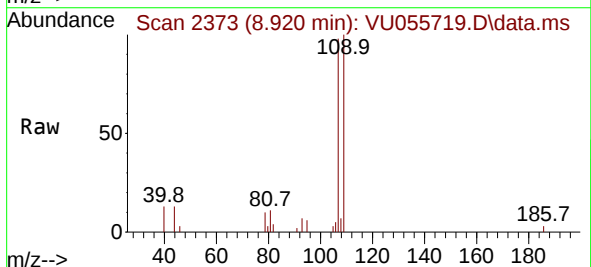
Tgt Ion:107 Resp: 8554

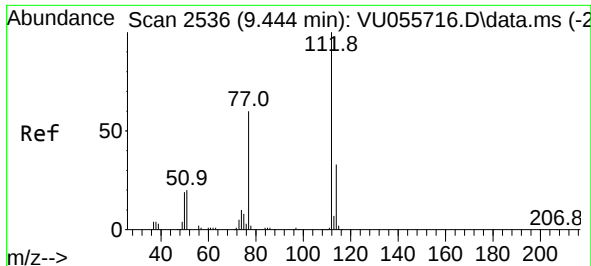
Ion Ratio Lower Upper

107 100

109 101.5 66.7 123.9

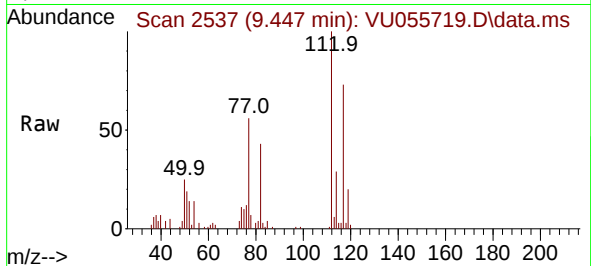
188 0.0 2.6 4.0#





#51
Chlorobenzene
Concen: 2.481 ug/L
RT: 9.447 min Scan# 2536
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

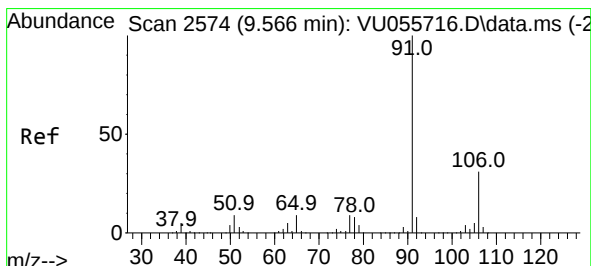
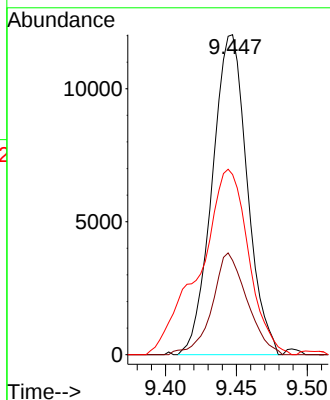
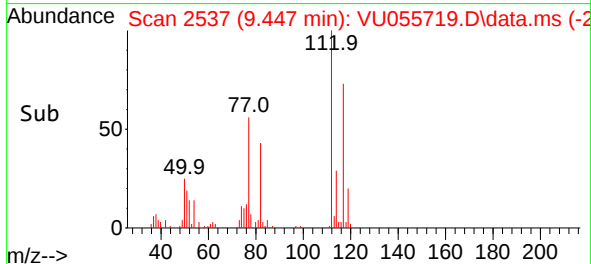
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



Tgt Ion: 112 Resp: 2068
Ion Ratio Lower Upper
112 100
114 29.4 22.0 40.8
77 56.3 49.0 73.6

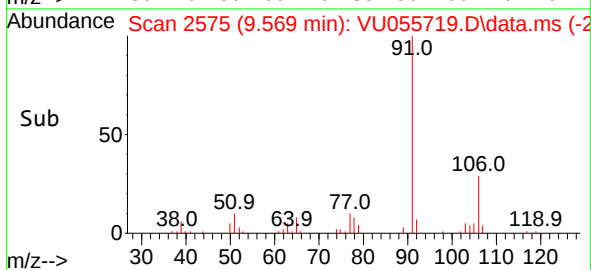
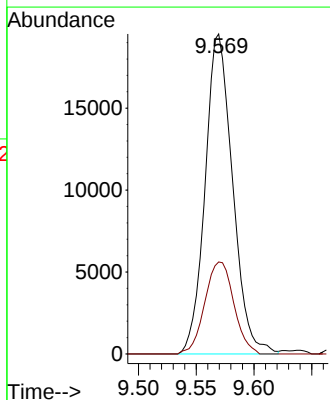
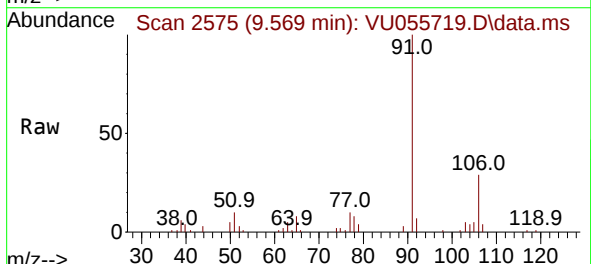
Manual Integrations
APPROVED

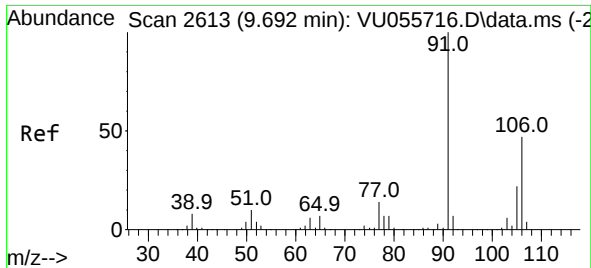
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#52
Ethylbenzene
Concen: 2.295 ug/L
RT: 9.569 min Scan# 2575
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion: 91 Resp: 32323
Ion Ratio Lower Upper
91 100
106 32.6 21.2 39.4





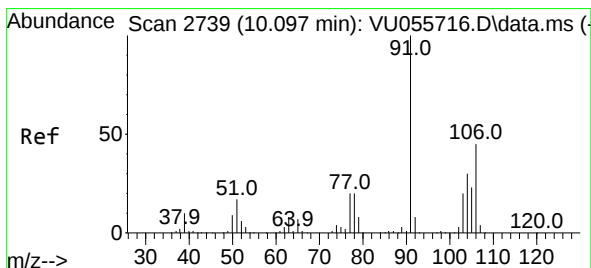
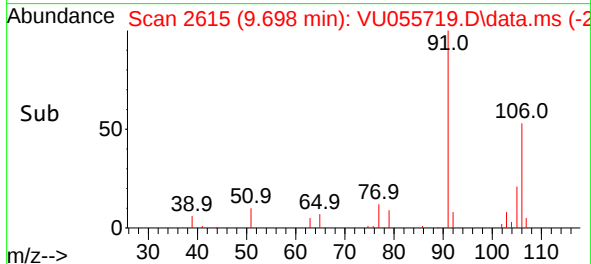
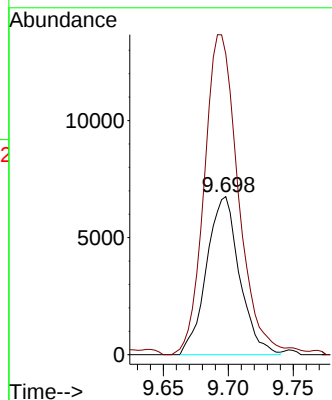
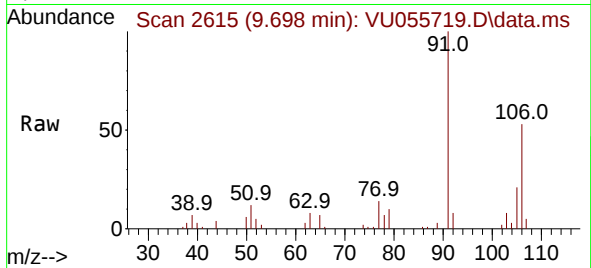
#53
m,p-Xylene
Concen: 2.258 ug/L
RT: 9.698 min Scan# 206
Delta R.T. 0.006 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07

Tgt Ion:106 Resp: 1191
Ion Ratio Lower Upper
106 100
91 174.8 143.8 267.0

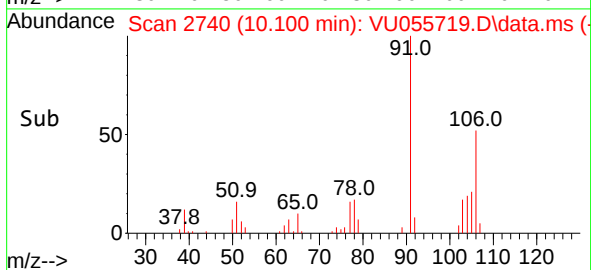
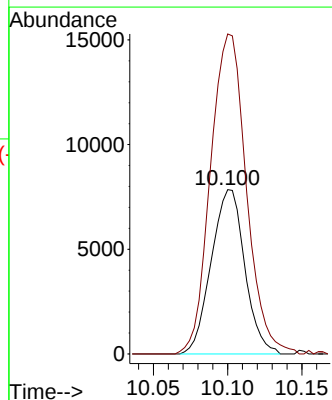
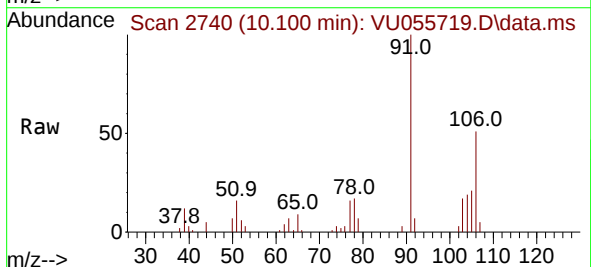
Manual Integrations
APPROVED

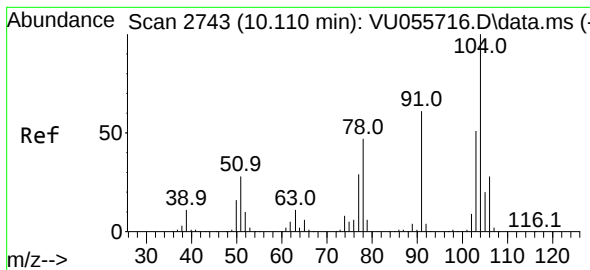
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#54
o-Xylene
Concen: 2.416 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion:106 Resp: 12338
Ion Ratio Lower Upper
106 100
91 177.9 151.8 282.0





#55

Styrene

Concen: 2.217 ug/L

RT: 10.116 min Scan# 21

Delta R.T. 0.007 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

Tgt Ion:104 Resp: 19170

Ion Ratio Lower Upper

104 100

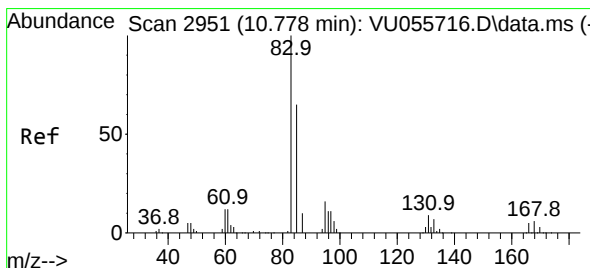
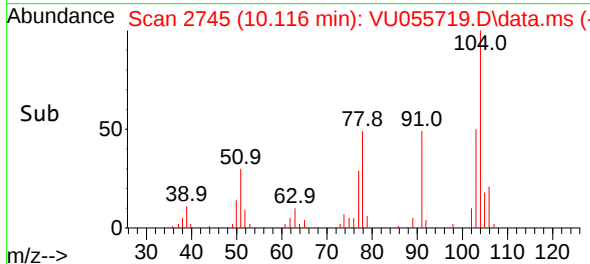
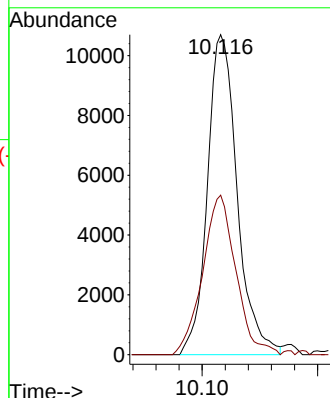
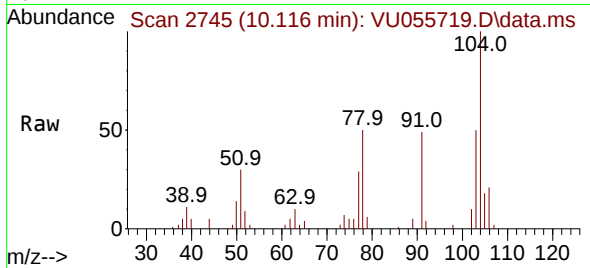
78 49.8 33.6 62.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#57

1,1,2,2-Tetrachloroethane

Concen: 3.164 ug/L

RT: 10.778 min Scan# 2951

Delta R.T. 0.000 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

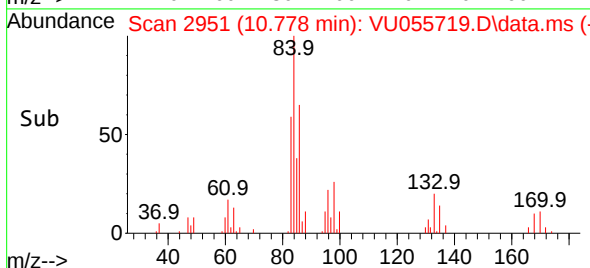
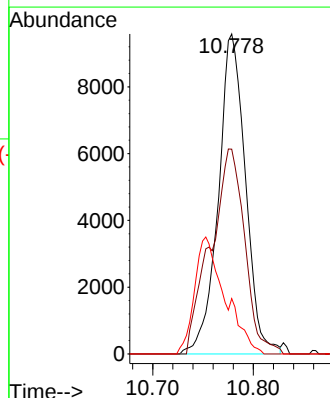
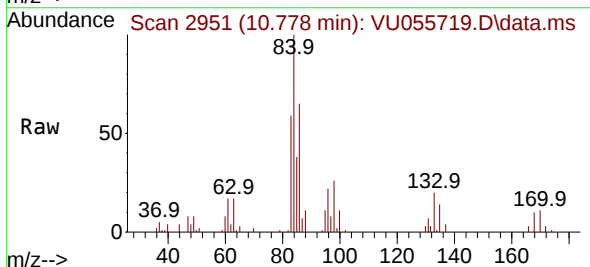
Tgt Ion: 83 Resp: 17960

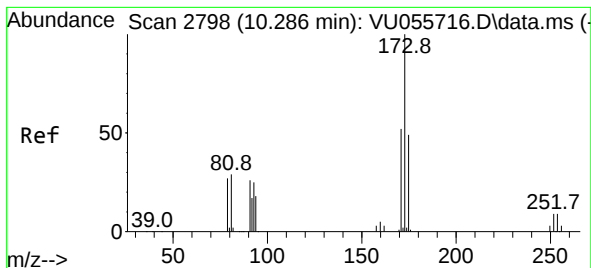
Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.5

131 17.3 7.3 10.9#





#59

Bromoform

Concen: 2.612 ug/L

RT: 10.290 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

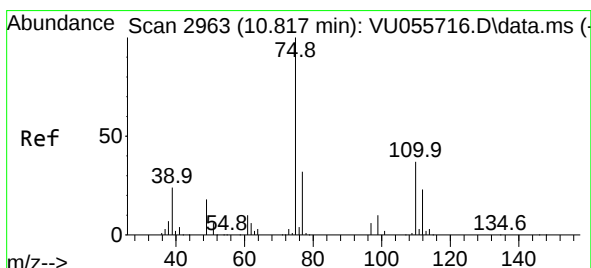
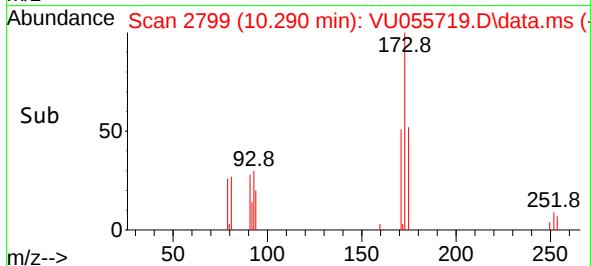
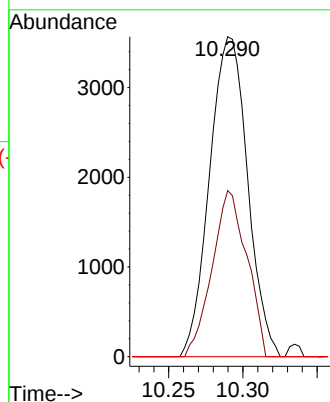
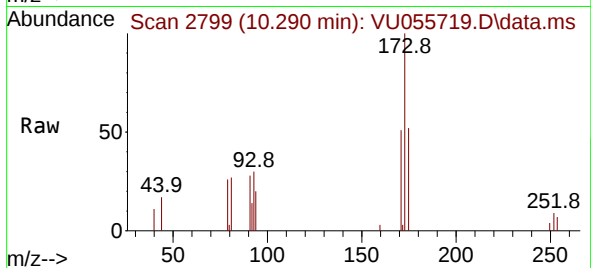
Tgt Ion:	173	Resp:	635
Ion	Ratio	Lower	Upper
173	100		
175	47.3	40.4	60.6
254	0.0	7.3	10.9

Manual Integrations

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Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#60

1,2,3-Trichloropropane

Concen: 3.023 ug/L

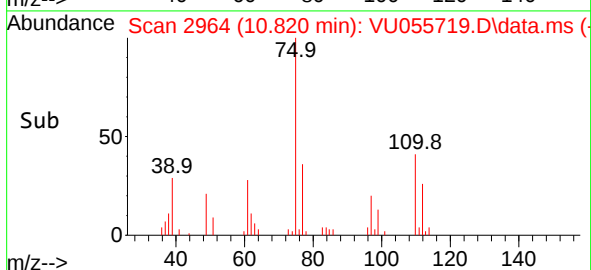
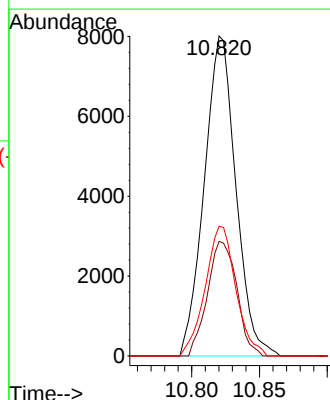
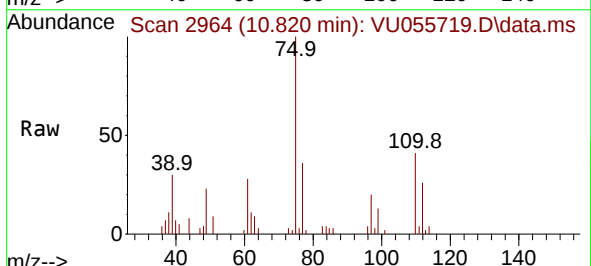
RT: 10.820 min Scan# 2964

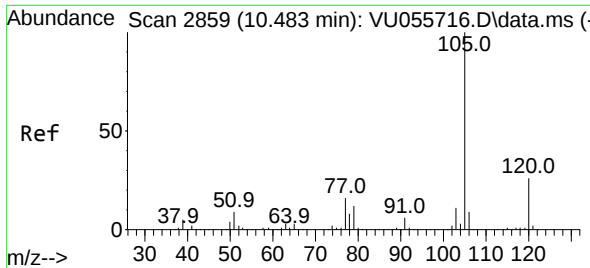
Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

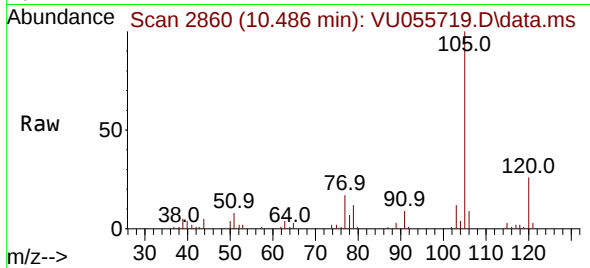
Tgt Ion:	75	Resp:	12972
Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.8	38.8
110	39.3	28.5	42.7





#61
Isopropylbenzene
Concen: 2.352 ug/L
RT: 10.486 min Scan# 2859
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

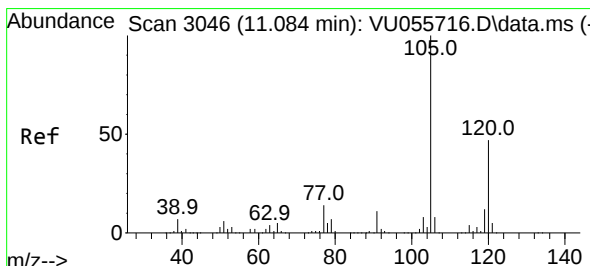
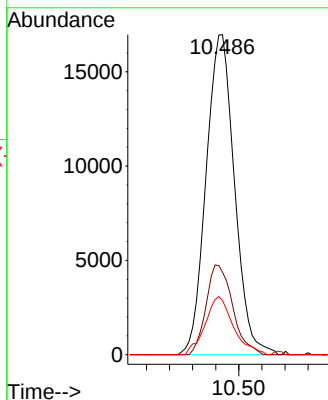
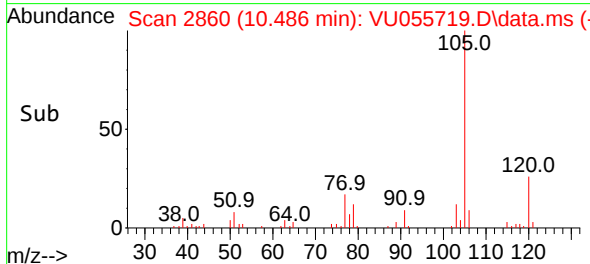
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



Tgt Ion:105 Resp: 28980
Ion Ratio Lower Upper
105 100
120 26.2 20.6 30.8
77 18.0 13.4 20.0

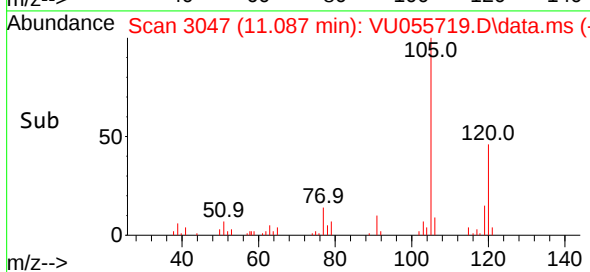
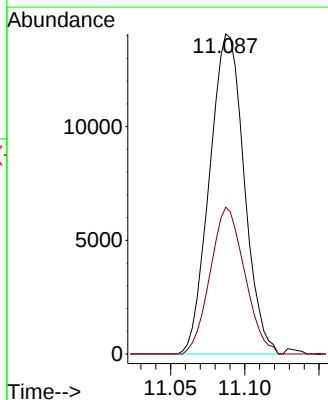
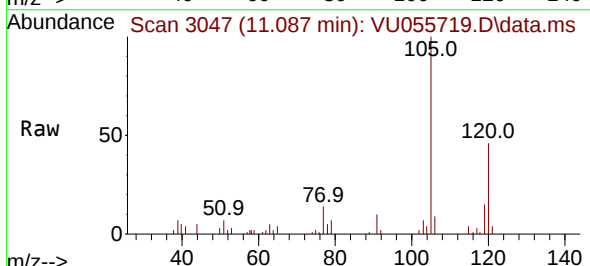
Manual Integrations
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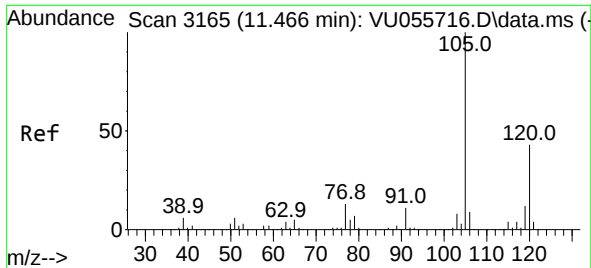
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#62
1,3,5-Trimethylbenzene
Concen: 2.288 ug/L
RT: 11.087 min Scan# 3047
Delta R.T. 0.003 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Tgt Ion:105 Resp: 22817
Ion Ratio Lower Upper
105 100
120 45.6 37.7 56.5





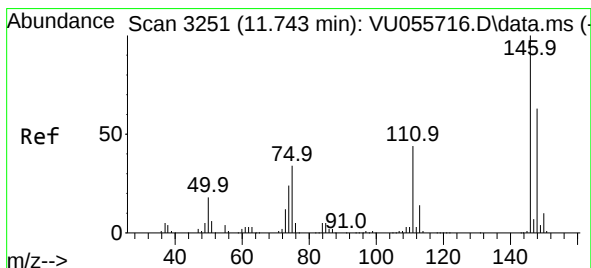
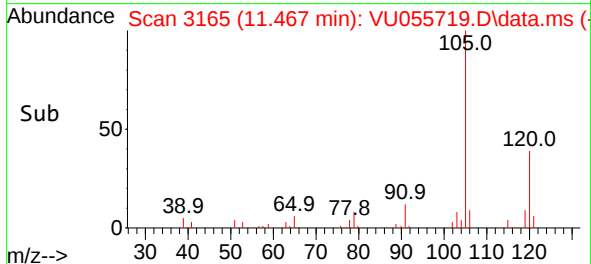
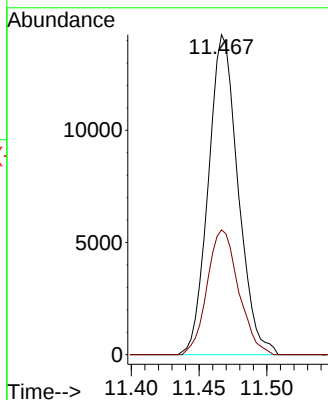
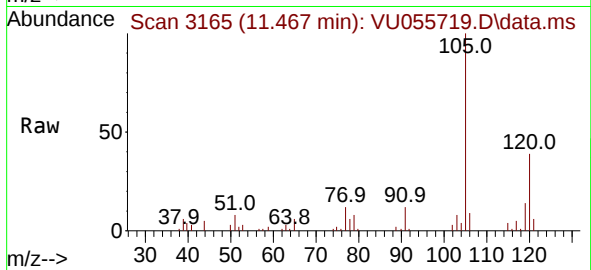
#63
1,2,4-Trimethylbenzene
Concen: 2.212 ug/L
RT: 11.467 min Scan# 3165
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07

Tgt Ion:105 Resp: 21814
Ion Ratio Lower Upper
105 100
120 41.1 35.0 52.4

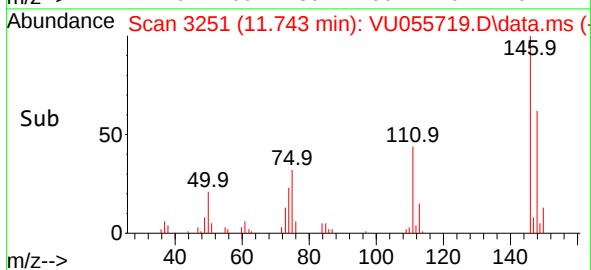
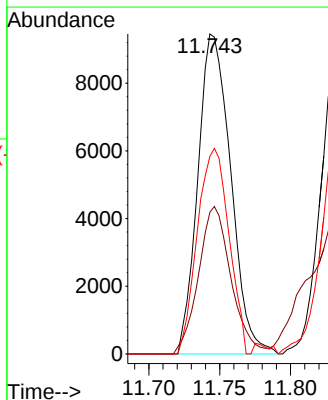
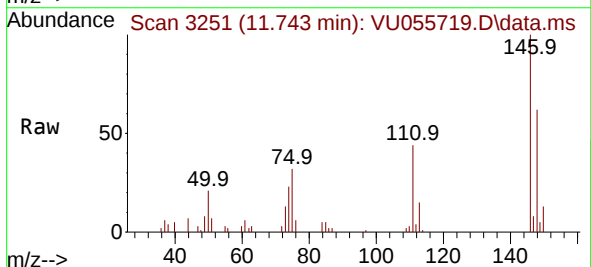
Manual Integrations
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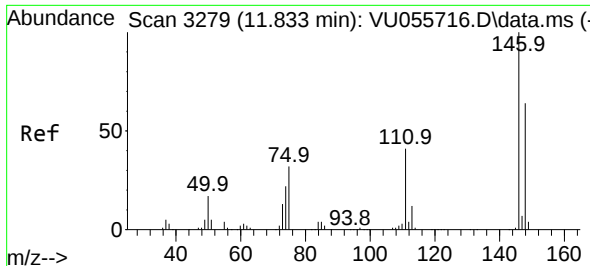
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#64
1,3-Dichlorobenzene
Concen: 2.503 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

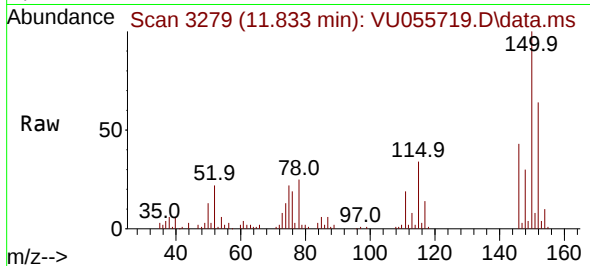
Tgt Ion:146 Resp: 15251
Ion Ratio Lower Upper
146 100
111 44.3 29.7 55.1
148 62.1 45.0 83.6





#65
1,4-Dichlorobenzene
Concen: 2.763 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

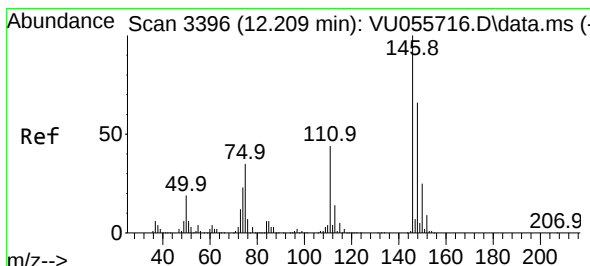
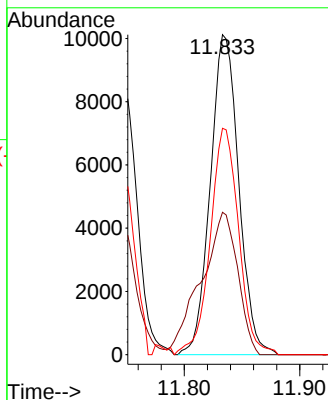
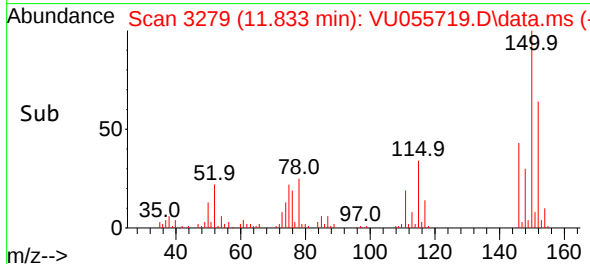
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



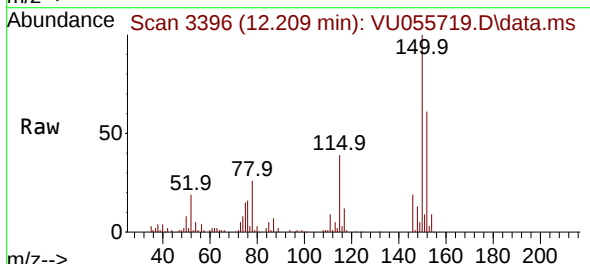
Tgt Ion:146 Resp: 17308
Ion Ratio Lower Upper
146 100
111 48.6 28.6 53.0
148 80.2 44.2 82.0

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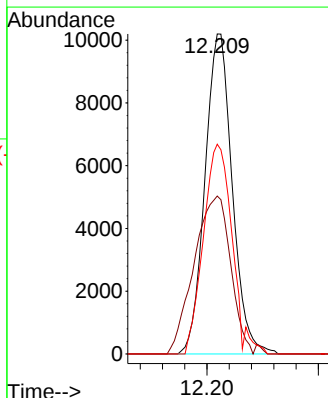
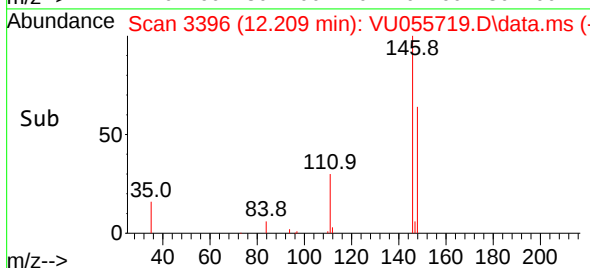
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023

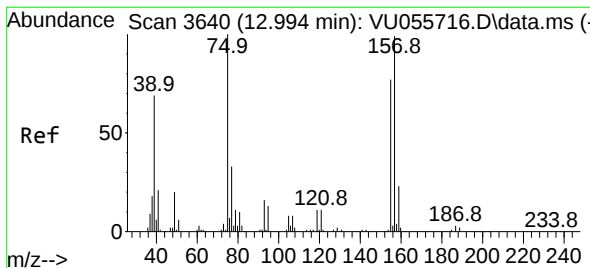


#67
1,2-Dichlorobenzene
Concen: 2.870 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.000 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22



Tgt Ion:146 Resp: 17353
Ion Ratio Lower Upper
146 100
111 49.4 35.2 52.8
148 65.6 52.3 78.5





#68

1,2-Dibromo-3-chloropropane

Concen: 2.792 ug/L

RT: 13.000 min Scan# 30

Delta R.T. 0.006 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2023-07

Tgt Ion: 75 Resp: 358

Ion Ratio Lower Upper

75 100

155 65.4 59.6 89.4

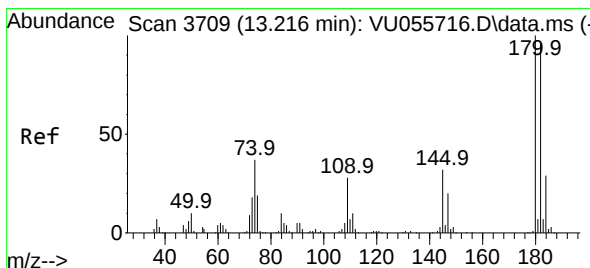
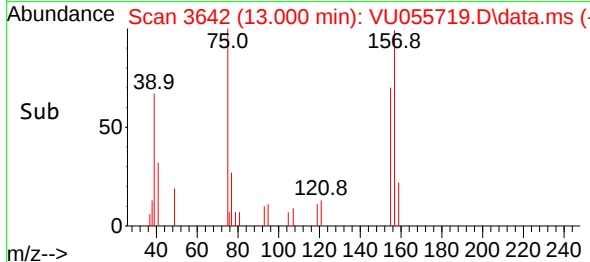
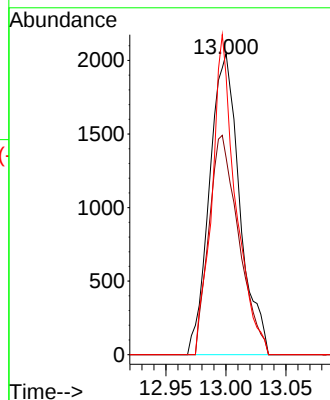
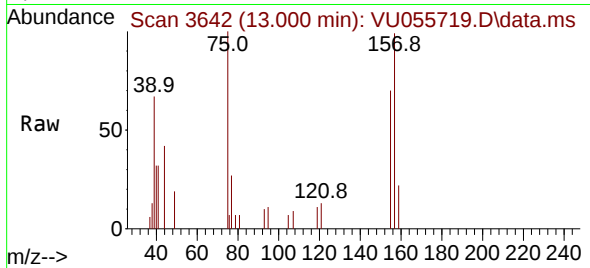
157 92.4 77.7 116.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/11/2023

Supervised By :Mahesh Dadoda 10/11/2023



#69

1,3,5-Trichlorobenzene

Concen: 2.435 ug/L

RT: 13.219 min Scan# 3710

Delta R.T. 0.003 min

Lab File: VU055719.D

Acq: 10 Oct 2023 14:22

Tgt Ion:180 Resp: 9897

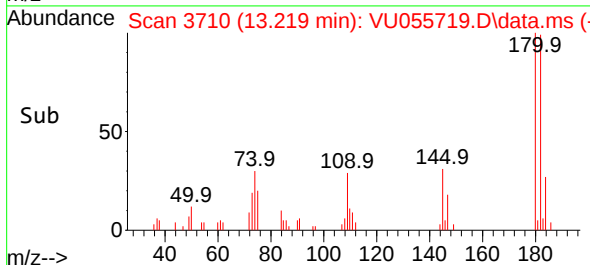
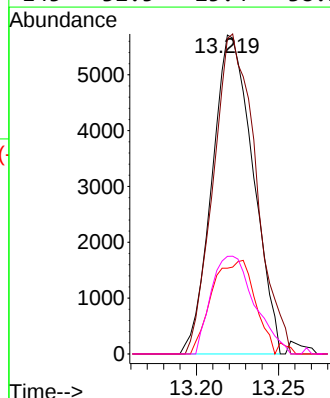
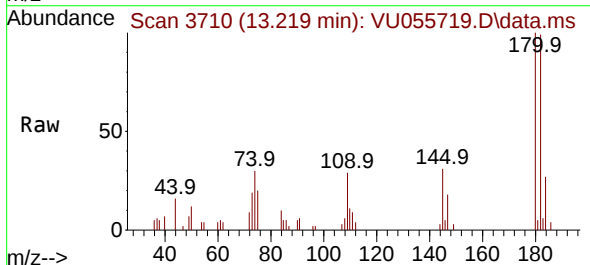
Ion Ratio Lower Upper

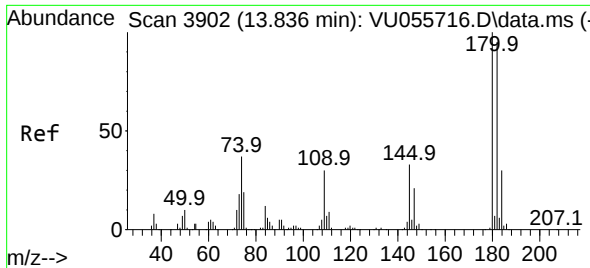
180 100

182 103.6 76.2 114.2

184 0.0 23.9 35.9#

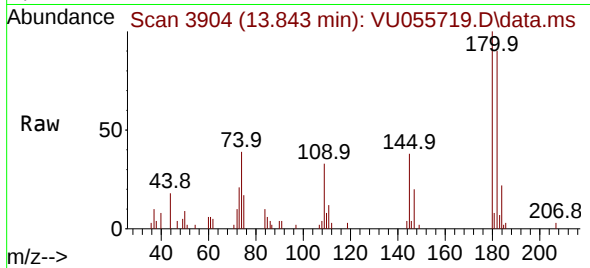
145 32.5 25.4 38.2





#70
1,2,4-trichlorobenzene
Concen: 2.811 ug/L
RT: 13.843 min Scan# 3904
Delta R.T. 0.006 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

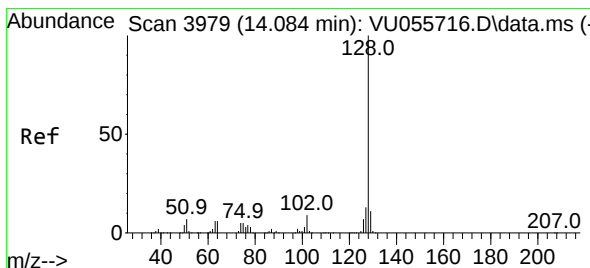
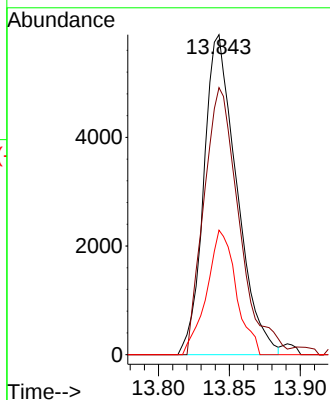
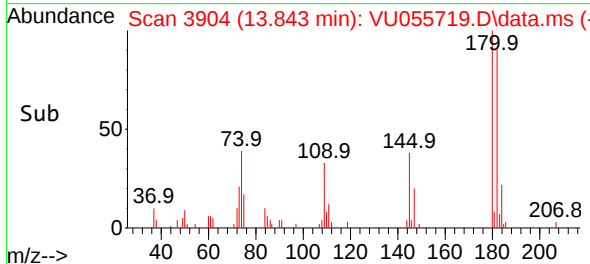
Instrument : MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2023-07



Tgt Ion:180 Resp: 9514
Ion Ratio Lower Upper
180 100
182 88.9 75.4 113.2
145 34.8 26.1 39.1

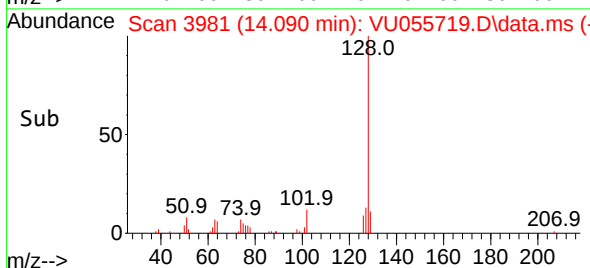
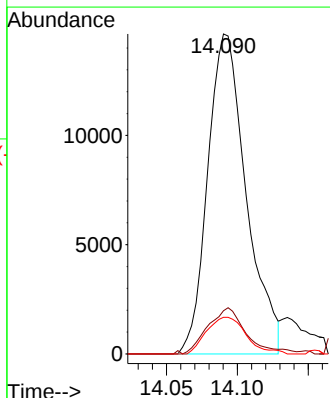
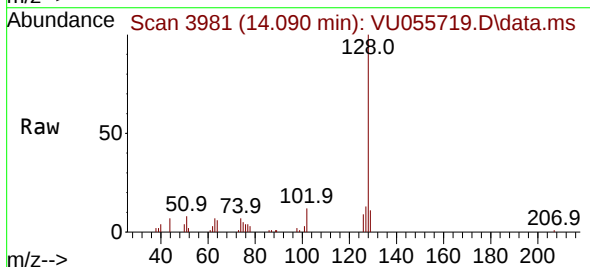
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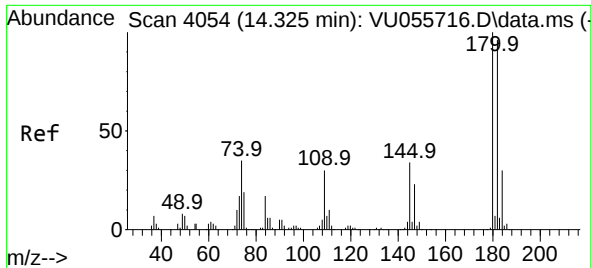
Reviewed By :John Carlone 10/11/2023
Supervised By :Mahesh Dadoda 10/11/2023



#71
Naphthalene
Concen: 2.754 ug/L
RT: 14.090 min Scan# 3981
Delta R.T. 0.007 min
Lab File: VU055719.D
Acq: 10 Oct 2023 14:22

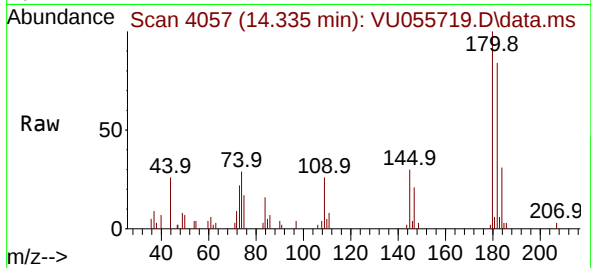
Tgt Ion:128 Resp: 27695
Ion Ratio Lower Upper
128 100
127 13.9 10.6 16.0
129 11.5 8.7 13.1





#72
 1,2,3-Trichlorobenzene
 Concen: 2.844 ug/L
 RT: 14.335 min Scan# 4054
 Delta R.T. 0.010 min
 Lab File: VU055719.D
 Acq: 10 Oct 2023 14:22

Instrument : MSVOA_U
 ClientSampleId : MDL-WATER-QT4-2023-07



Tgt Ion:180 Resp: 949
 Ion Ratio Lower Upper
 180 100
 182 92.0 78.1 117.1
 145 34.0 27.4 41.0

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/11/2023
 Supervised By :Mahesh Dadoda 10/11/2023

