

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
 Data File : VX044931.D
 Acq On : 12 Feb 2025 14:26
 Operator : JC/MD
 Sample : Q1168-07 0.2PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2025

Quant Time: Feb 13 04:30:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 13 03:28:47 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/14/2025
 Supervised By :Mahesh Dadoda 02/14/2025

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	112091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	209530	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	181195	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	75940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	85710	52.236	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.480%			
35) Dibromofluoromethane	5.379	113	67346	49.436	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.880%			
50) Toluene-d8	8.647	98	243528	47.274	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.540%			
62) 4-Bromofluorobenzene	11.079	95	81319	46.825	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.660%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	114	0.206	ug/l	97
8) Diethyl Ether	2.123	74	178	0.209	ug/l #	1
11) Tert butyl alcohol	2.940	59	1344	4.415	ug/l #	73
13) Acrolein	2.233	56	410	1.305	ug/l	98
15) Acrylonitrile	3.081	53	484	0.596	ug/l	88
16) Acetone	2.379	43	942	1.428	ug/l #	82
20) Methylene Chloride	2.782	84	338	0.209	ug/l	90
23) Vinyl Acetate	3.739	43	1853	0.460	ug/l #	72
25) 2-Butanone	4.623	43	548m	0.512	ug/l	
29) Tetrahydrofuran	5.050	42	501	0.704	ug/l #	40
36) 1,1-Dichloropropene	5.696	75	399	0.203	ug/l #	51
37) Ethyl Acetate	4.623	43	548m	0.251	ug/l	
38) Carbon Tetrachloride	5.665	117	471m	0.245	ug/l	
42) 1,2-Dichloroethane	6.086	62	414m	0.212	ug/l	
49) 1,4-Dioxane	7.696	88	24	0.672	ug/l #	23
51) 4-Methyl-2-Pentanone	8.580	43	1104	0.514	ug/l	92
58) 2-Chloroethyl Vinyl ether	8.256	63	1425	1.279	ug/l	95
59) 2-Hexanone	9.470	43	444	0.287	ug/l	95
64) Tetrachloroethene	9.275	164	233	0.204	ug/l #	53
68) m/p-Xylenes	10.317	106	520	0.205	ug/l	85
81) trans-1,4-Dichloro-2-b...	11.079	75	42854	65.473	ug/l #	11

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

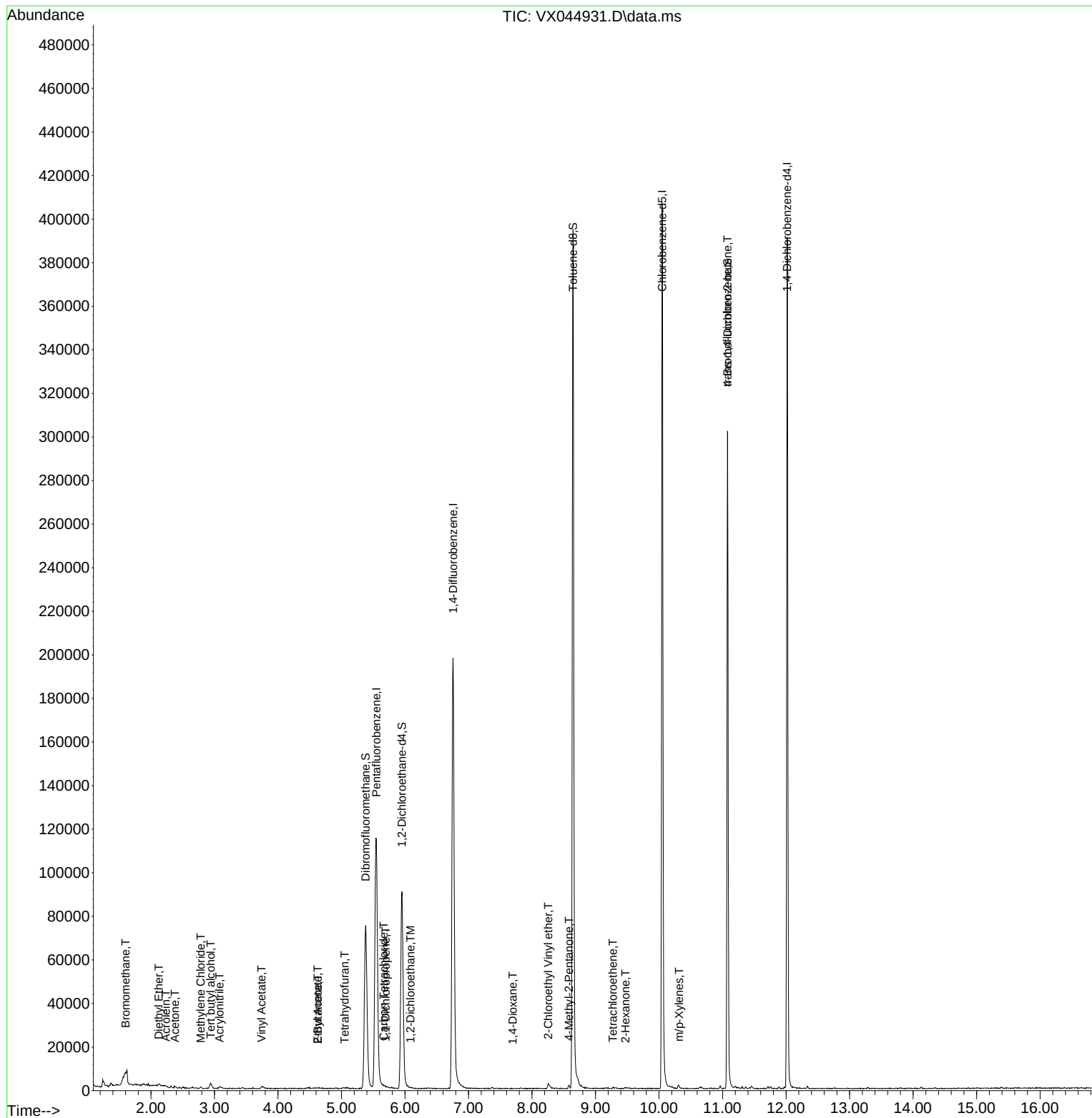
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044931.D
Acq On : 12 Feb 2025 14:26
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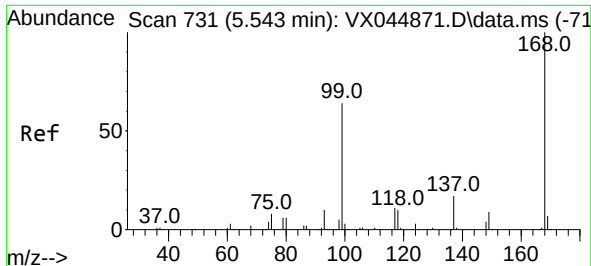
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025

Quant Time: Feb 13 04:30:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 13 03:28:47 2025
Response via : Initial Calibration

Manual Integrations
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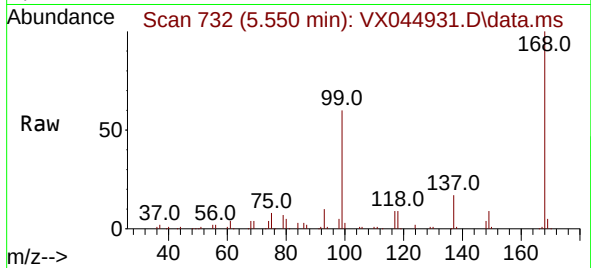
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.007 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

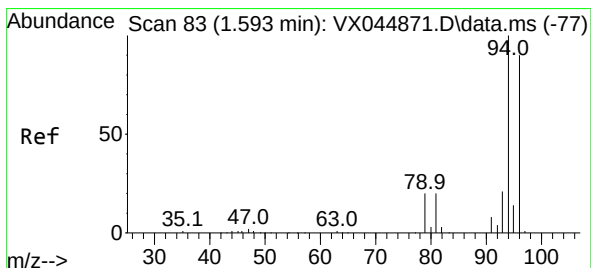
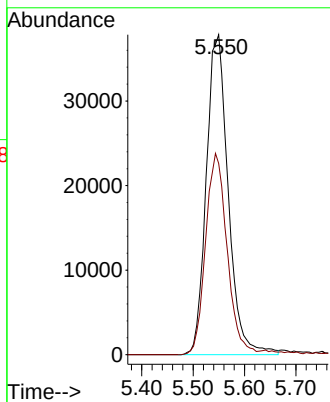
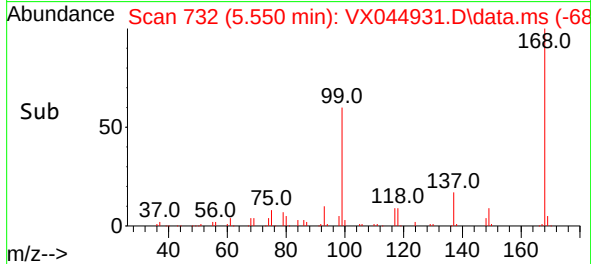
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025



Tgt Ion:168 Resp: 11209
Ion Ratio Lower Upper
168 100
99 59.8 51.2 76.8

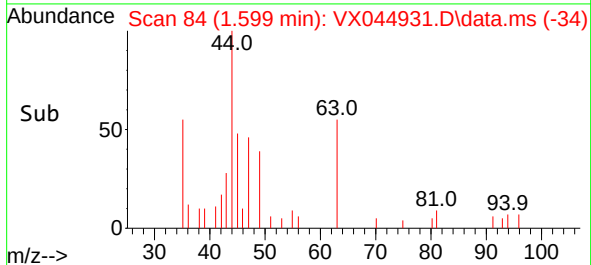
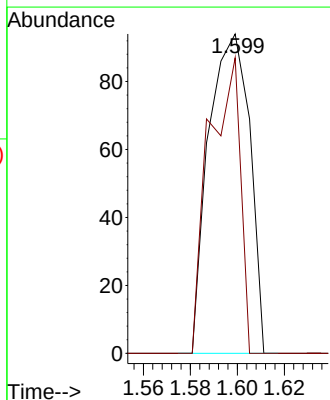
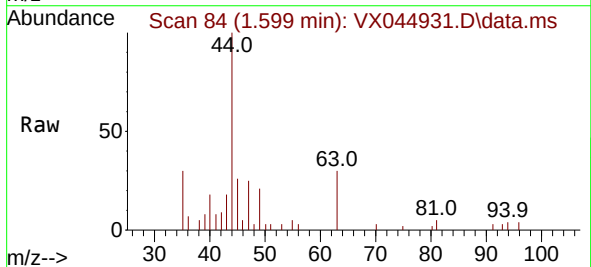
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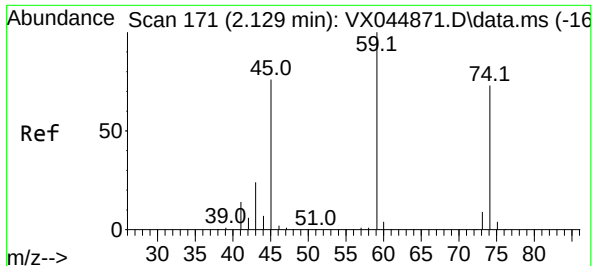
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#5
Bromomethane
Concen: 0.206 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

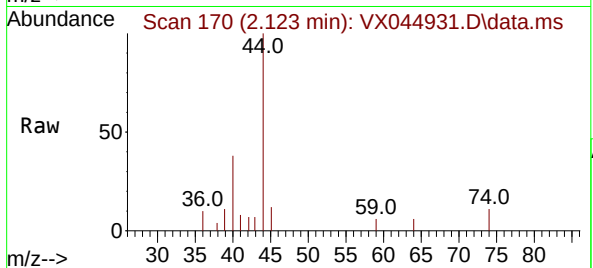
Tgt Ion: 94 Resp: 114
Ion Ratio Lower Upper
94 100
96 92.6 71.6 107.4





#8
Diethyl Ether
Concen: 0.209 ug/l
RT: 2.123 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

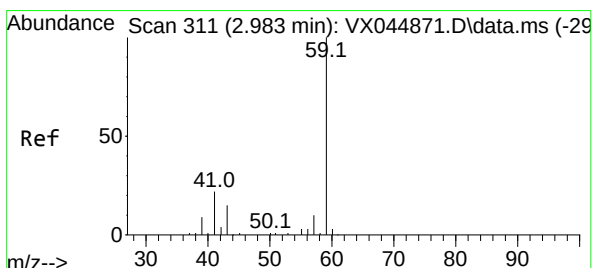
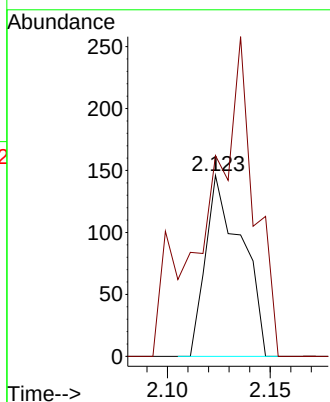
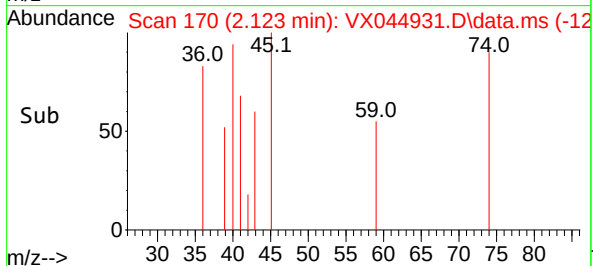
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 74 Resp: 178
Ion Ratio Lower Upper
74 100
45 228.1 51.1 153.4

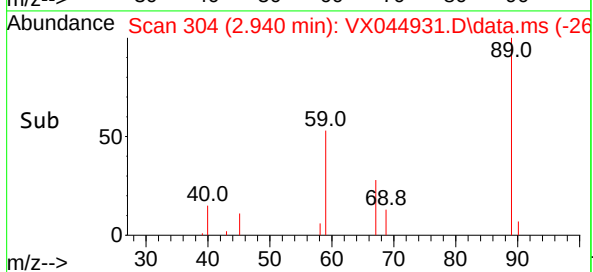
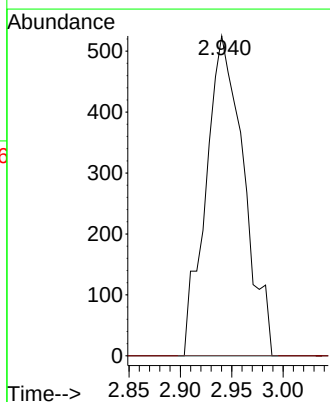
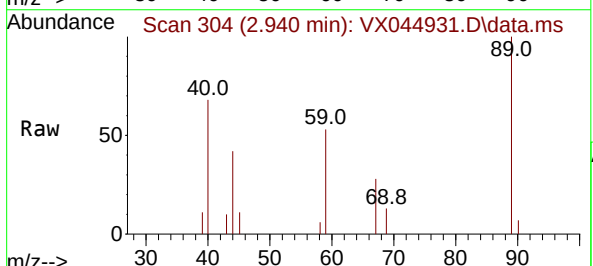
Manual Integrations
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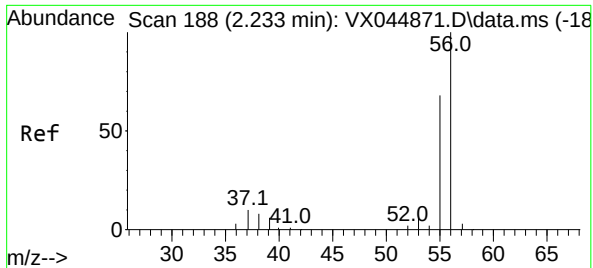
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#11
Tert butyl alcohol
Concen: 4.415 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.043 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

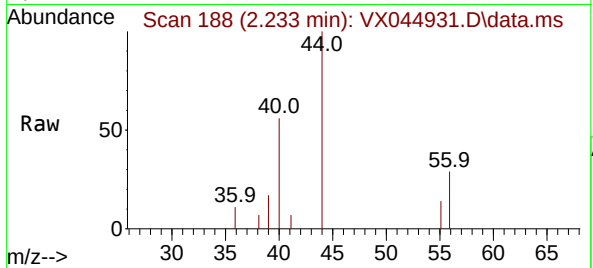
Tgt Ion: 59 Resp: 1344
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1





#13
Acrolein
Concen: 1.305 ug/l
RT: 2.233 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

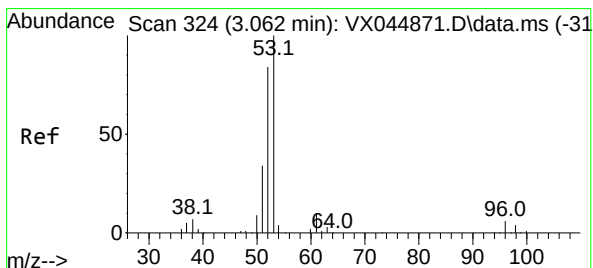
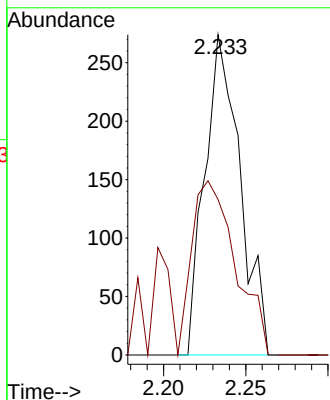
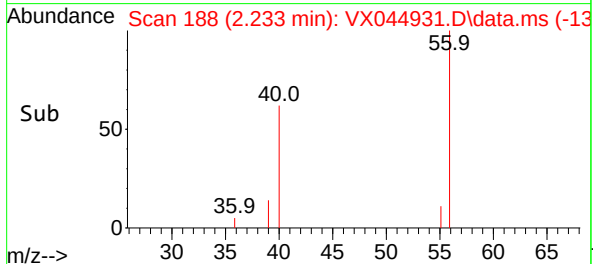
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 56 Resp: 410
Ion Ratio Lower Upper
56 100
55 67.6 55.7 83.5

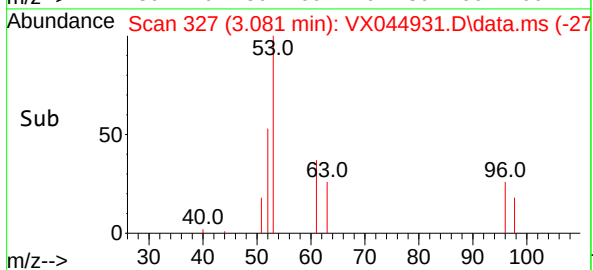
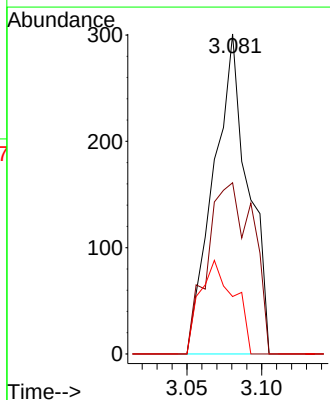
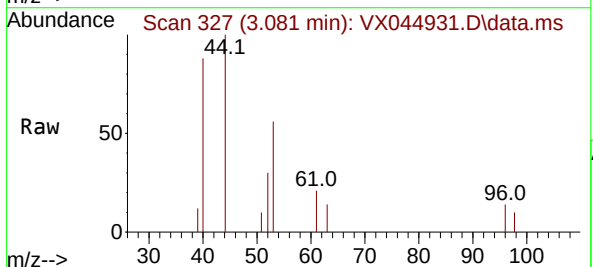
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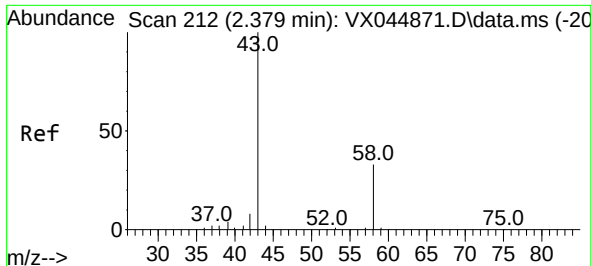
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#15
Acrylonitrile
Concen: 0.596 ug/l
RT: 3.081 min Scan# 327
Delta R.T. 0.018 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

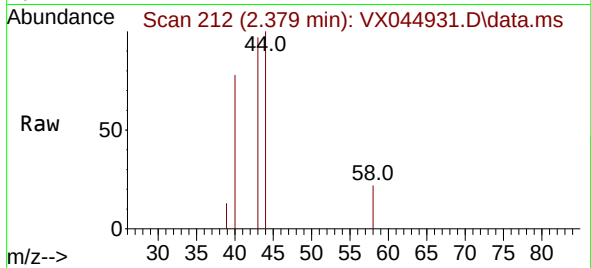
Tgt Ion: 53 Resp: 484
Ion Ratio Lower Upper
53 100
52 70.2 65.0 97.6
51 28.9 28.0 42.0





#16
Acetone
Concen: 1.428 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

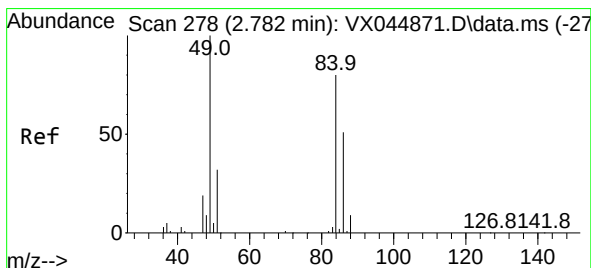
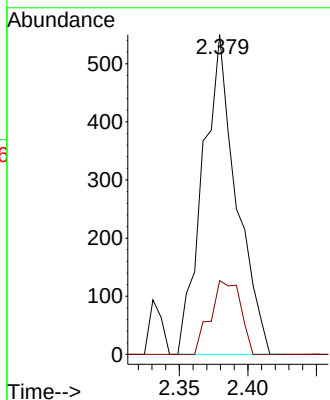
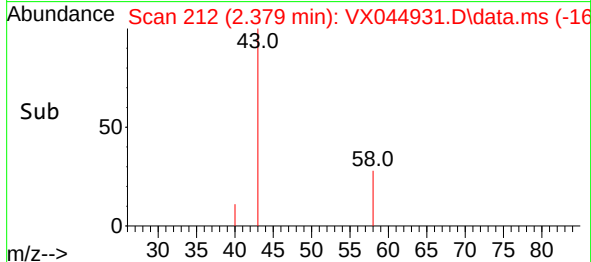
Instrument : MSVOA_X
ClientSampleId : LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 43 Resp: 942
Ion Ratio Lower Upper
43 100
58 23.1 26.5 39.7

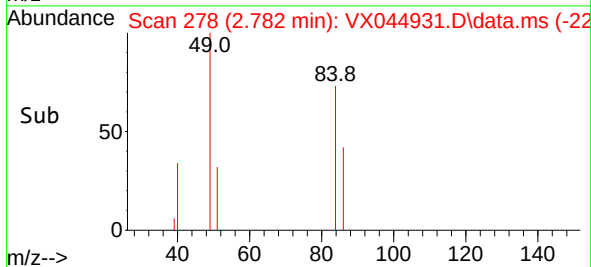
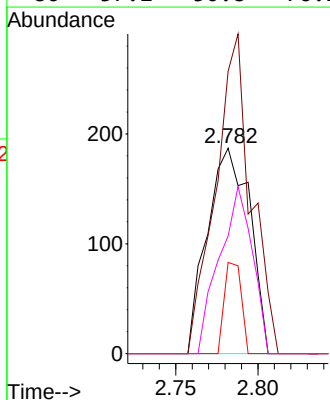
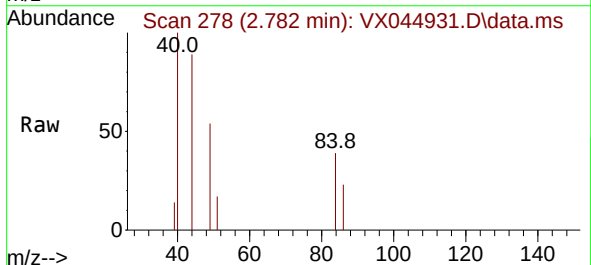
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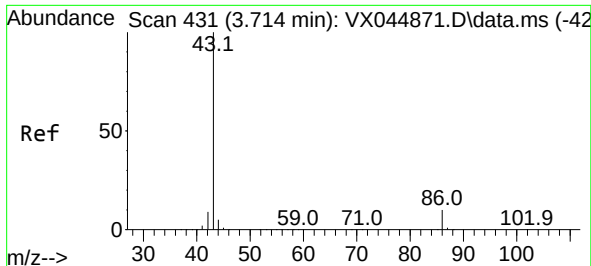
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#20
Methylene Chloride
Concen: 0.209 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

Tgt Ion: 84 Resp: 338
Ion Ratio Lower Upper
84 100
49 137.4 100.1 150.1
51 44.4 31.7 47.5
86 57.2 50.8 76.2





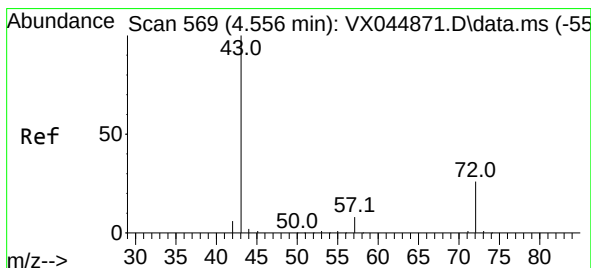
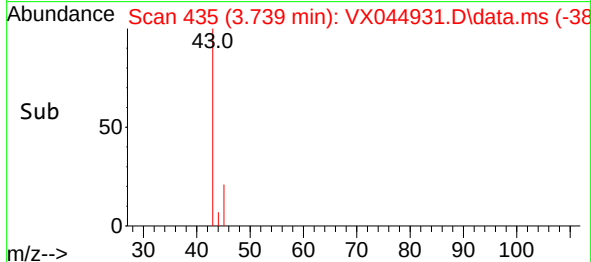
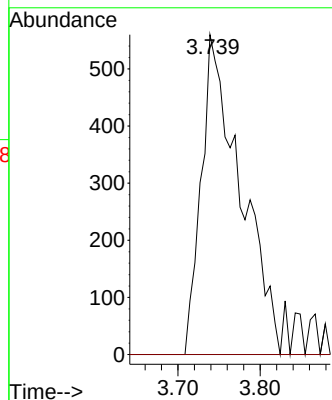
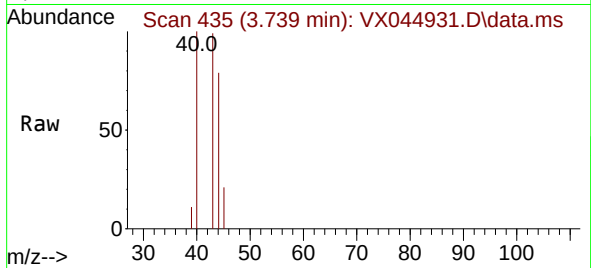
#23
 Vinyl Acetate
 Concen: 0.460 ug/l
 RT: 3.739 min Scan# 41
 Delta R.T. 0.025 min
 Lab File: VX044931.D
 Acq: 12 Feb 2025 14:26

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2025

Tgt Ion: 43 Resp: 185
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.3 12.5

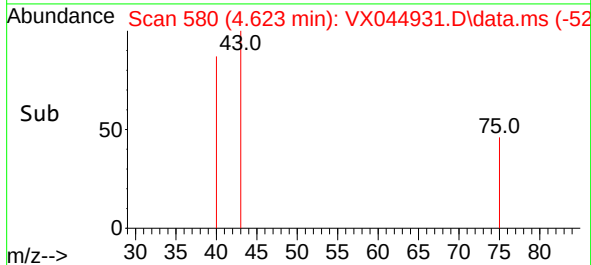
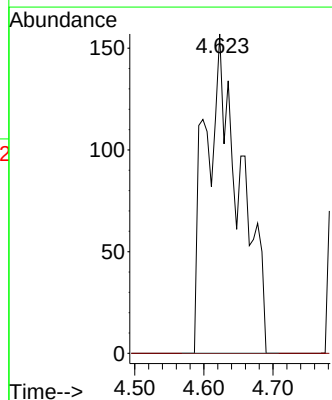
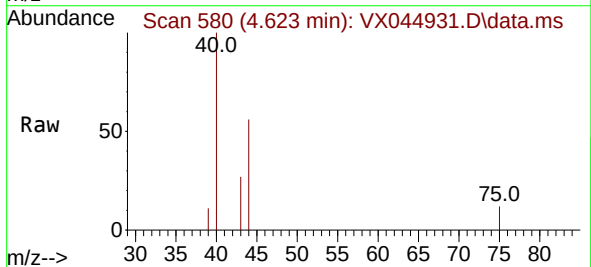
Manual Integrations
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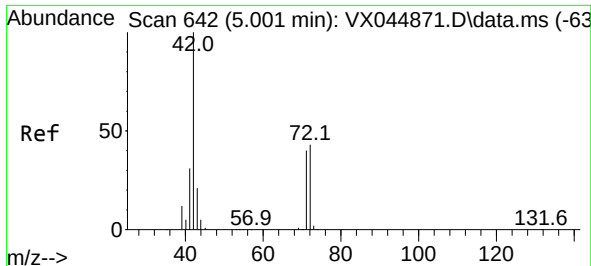
Reviewed By :John Carlone 02/14/2025
 Supervised By :Mahesh Dadoda 02/14/2025



#25
 2-Butanone
 Concen: 0.512 ug/l m
 RT: 4.623 min Scan# 580
 Delta R.T. 0.067 min
 Lab File: VX044931.D
 Acq: 12 Feb 2025 14:26

Tgt Ion: 43 Resp: 548
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.2 31.8





#29

Tetrahydrofuran

Concen: 0.704 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.049 min

Lab File: VX044931.D

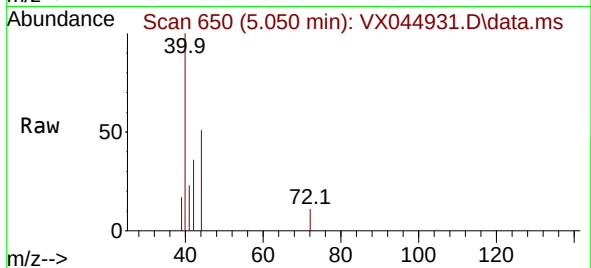
Acq: 12 Feb 2025 14:26

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2025



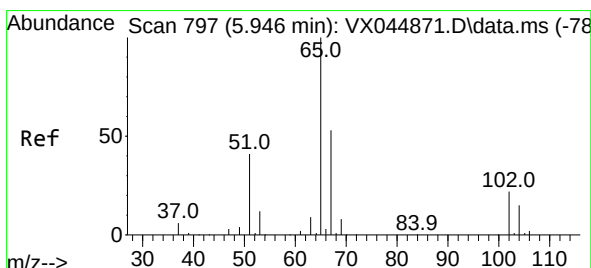
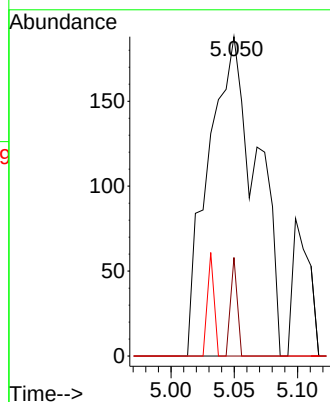
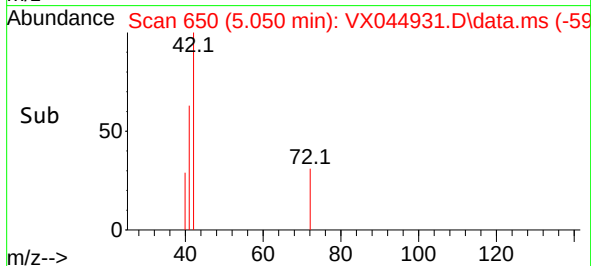
Tgt Ion: 42	Resp: 50
Ion Ratio	Lower Upper
42	100
72	4.2 35.0 52.4
71	4.4 32.6 48.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/14/2025

Supervised By :Mahesh Dadoda 02/14/2025



#33

1,2-Dichloroethane-d4

Concen: 52.236 ug/l

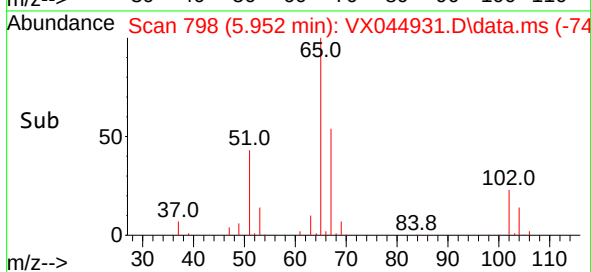
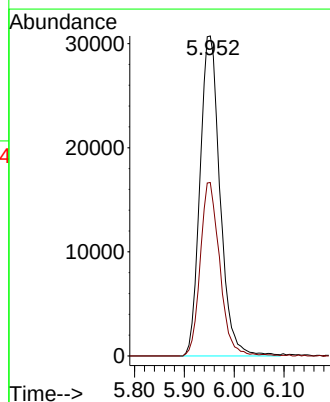
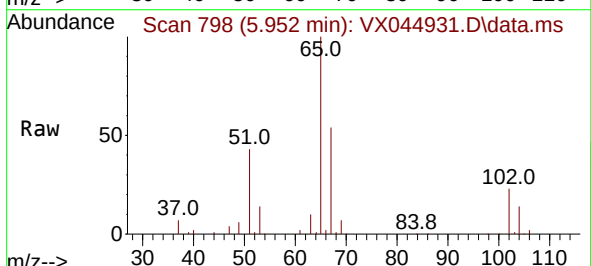
RT: 5.952 min Scan# 798

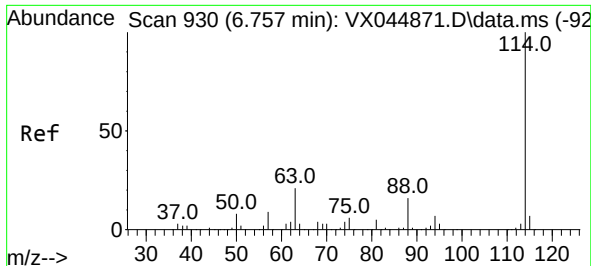
Delta R.T. 0.006 min

Lab File: VX044931.D

Acq: 12 Feb 2025 14:26

Tgt Ion: 65	Resp: 85710
Ion Ratio	Lower Upper
65	100
67	52.5 0.0 108.2





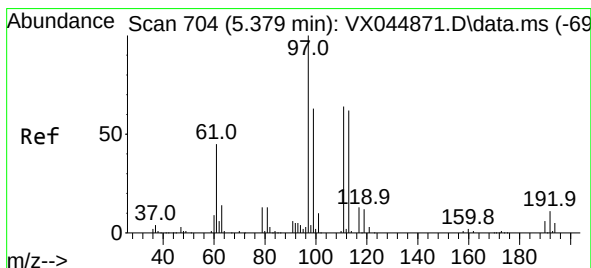
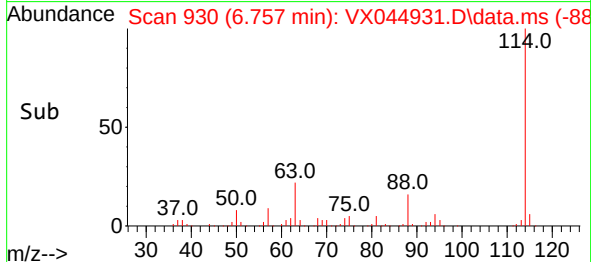
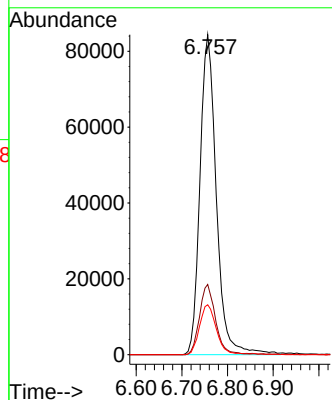
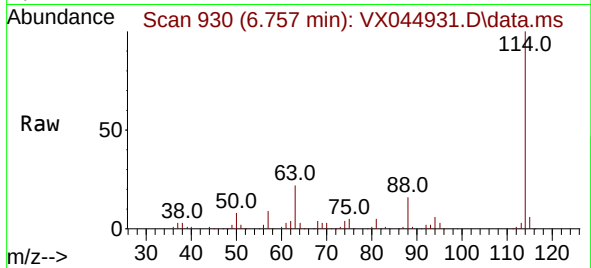
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025

Tgt Ion:114 Resp: 209530
Ion Ratio Lower Upper
114 100
63 21.9 0.0 42.4
88 15.6 0.0 31.4

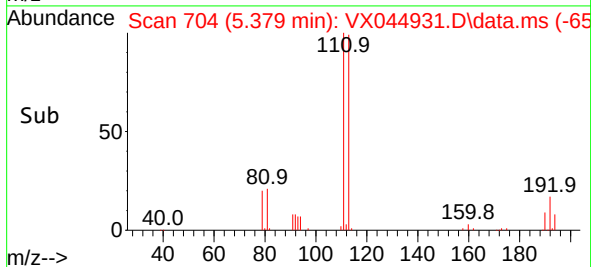
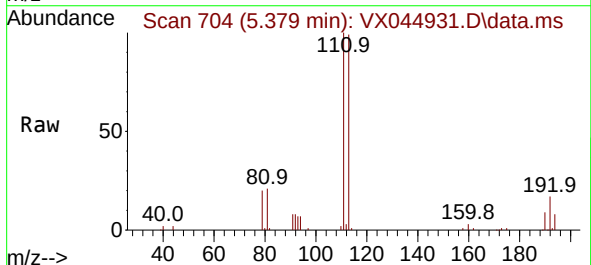
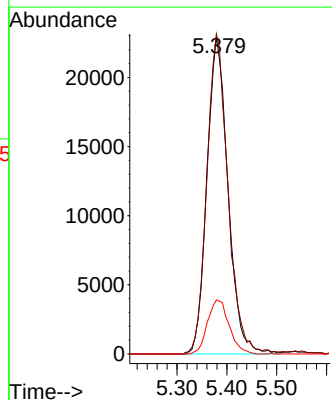
Manual Integrations
APPROVED

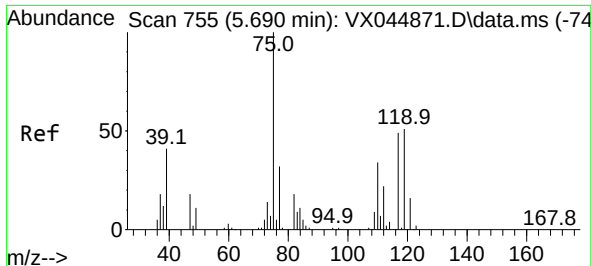
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#35
Dibromofluoromethane
Concen: 49.436 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

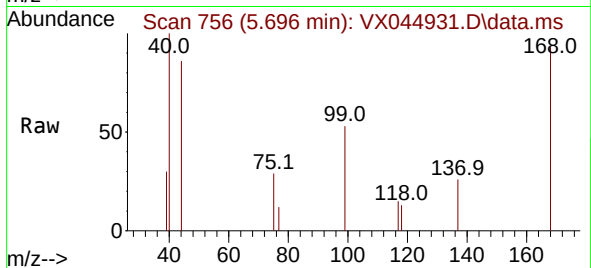
Tgt Ion:113 Resp: 67346
Ion Ratio Lower Upper
113 100
111 100.9 83.5 125.3
192 17.4 14.4 21.6





#36
1,1-Dichloropropene
Concen: 0.203 ug/l
RT: 5.696 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

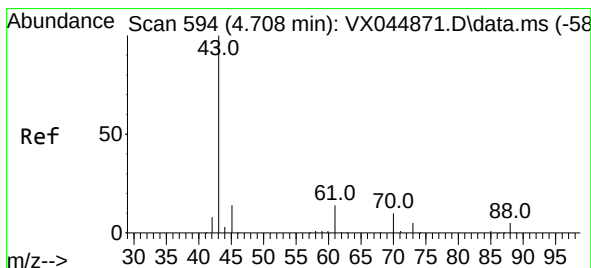
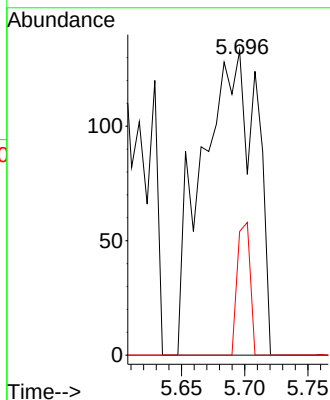
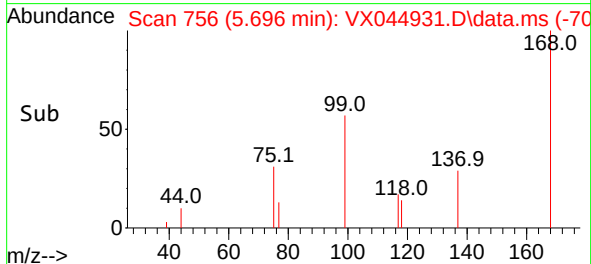
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 75 Resp: 399
Ion Ratio Lower Upper
75 100
110 0.0 17.2 51.6#
77 10.3 24.6 37.0#

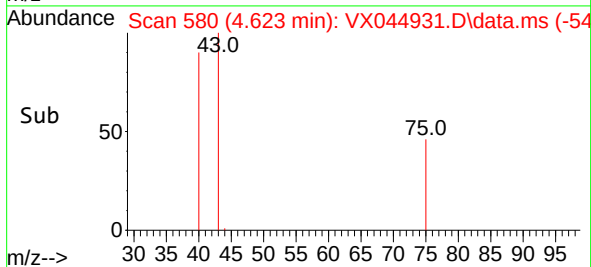
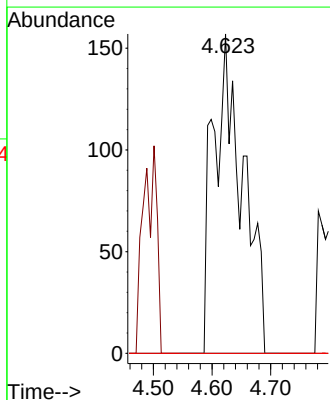
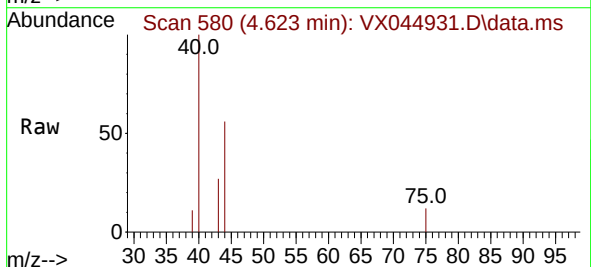
Manual Integrations
APPROVED

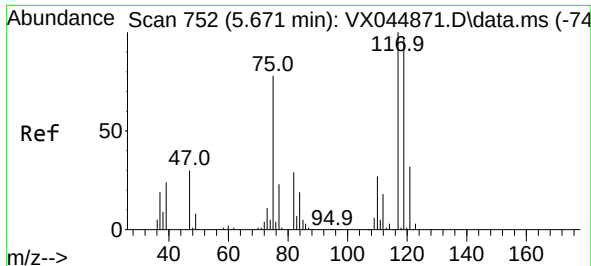
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#37
Ethyl Acetate
Concen: 0.251 ug/l m
RT: 4.623 min Scan# 580
Delta R.T. -0.085 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

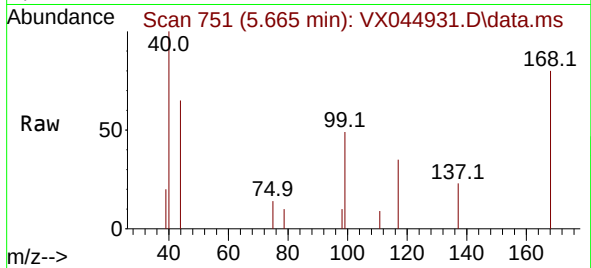
Tgt Ion: 43 Resp: 548
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.4#
70 0.0 8.2 12.2#





#38
Carbon Tetrachloride
Concen: 0.245 ug/l m
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

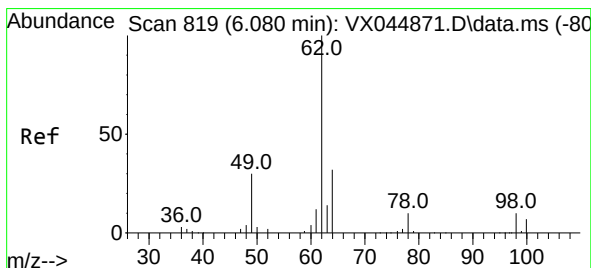
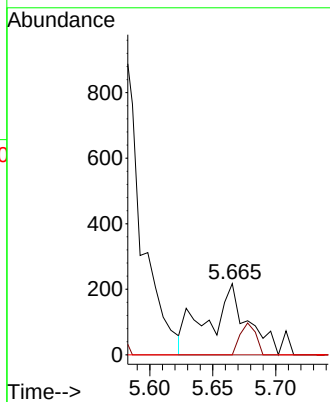
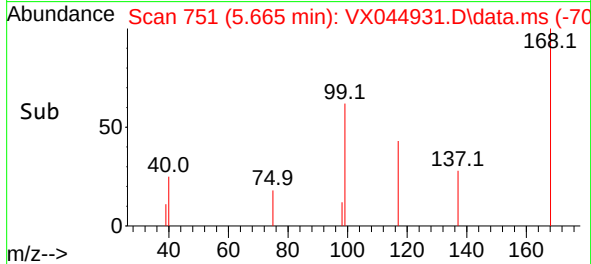
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 117 Resp: 47
Ion Ratio Lower Upper
117 100
119 0.0 77.5 116.3
121 0.0 25.6 38.4

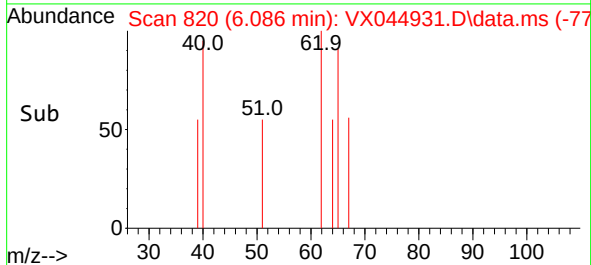
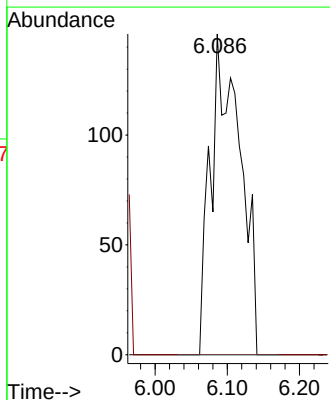
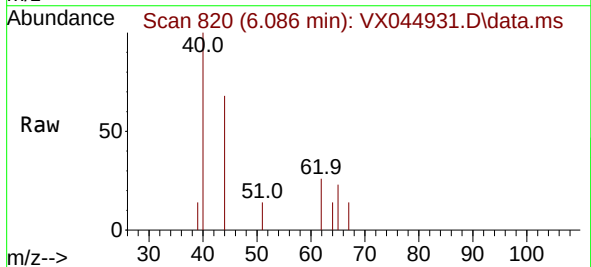
Manual Integrations
APPROVED

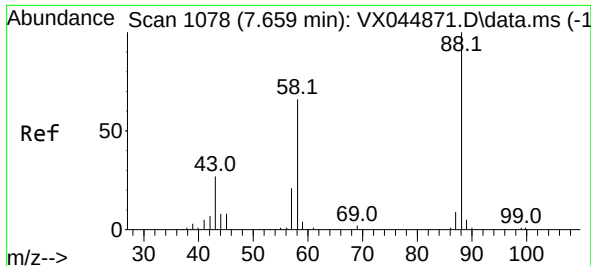
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#42
1,2-Dichloroethane
Concen: 0.212 ug/l m
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

Tgt Ion: 62 Resp: 414
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.4





#49

1,4-Dioxane

Concen: 0.672 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.037 min

Lab File: VX044931.D

Acq: 12 Feb 2025 14:26

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2025

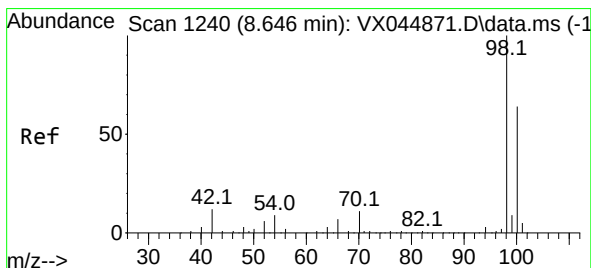
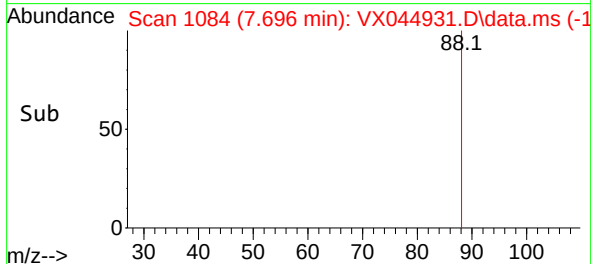
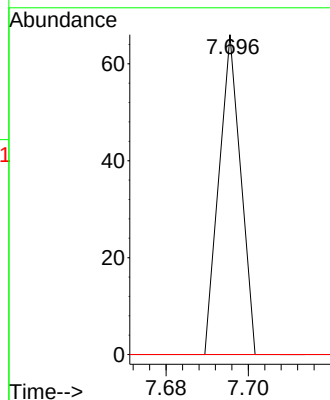
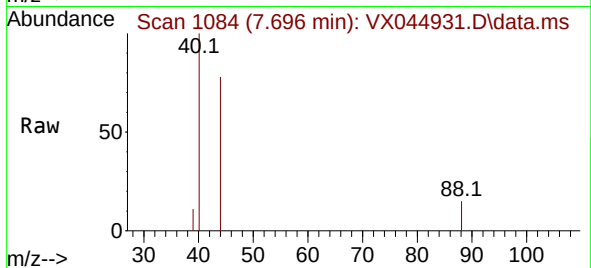
Tgt Ion: 88	Resp: 243528
Ion Ratio	Lower Upper
88 100	
43 0.0	26.6 39.8
58 0.0	55.9 83.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/14/2025

Supervised By :Mahesh Dadoda 02/14/2025



#50

Toluene-d8

Concen: 47.274 ug/l

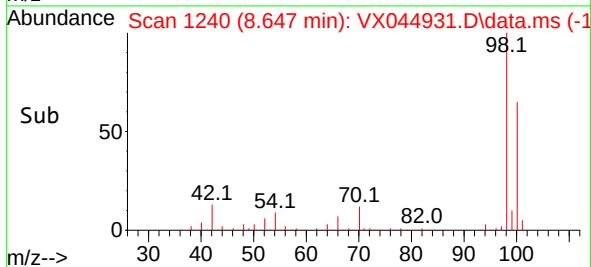
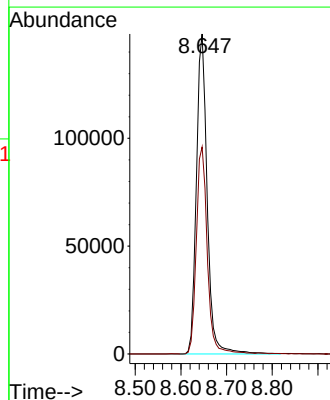
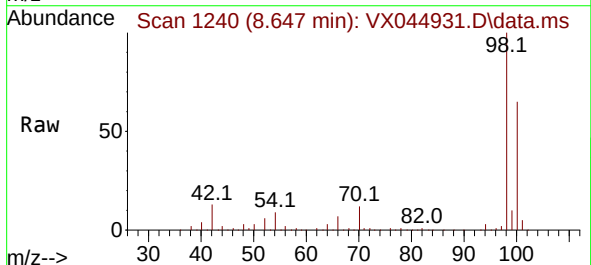
RT: 8.647 min Scan# 1240

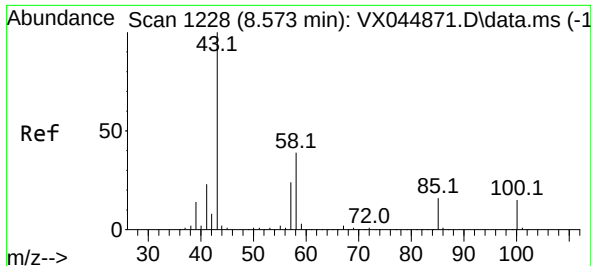
Delta R.T. 0.000 min

Lab File: VX044931.D

Acq: 12 Feb 2025 14:26

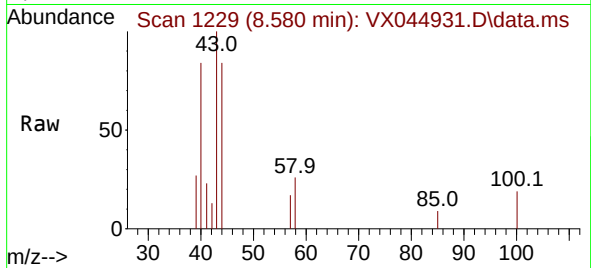
Tgt Ion: 98	Resp: 243528
Ion Ratio	Lower Upper
98 100	
100 65.6	52.7 79.1





#51
4-Methyl-2-Pentanone
Concen: 0.514 ug/l
RT: 8.580 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

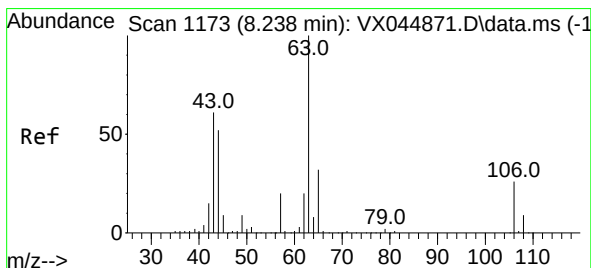
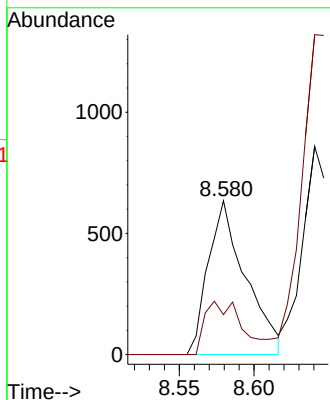
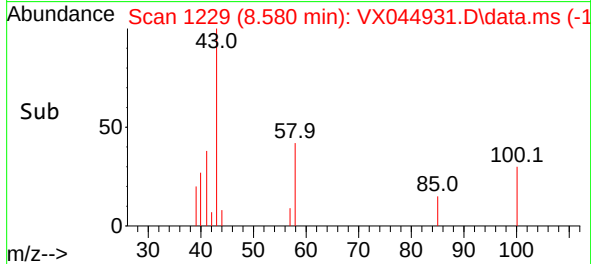
Instrument : MSVOA_X
ClientSampleId : LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 43 Resp: 1104
Ion Ratio Lower Upper
43 100
58 33.6 30.8 46.2

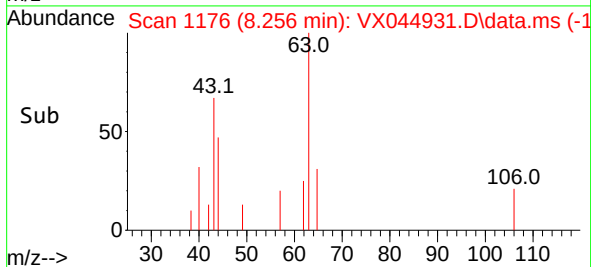
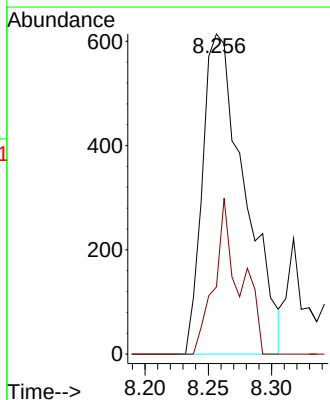
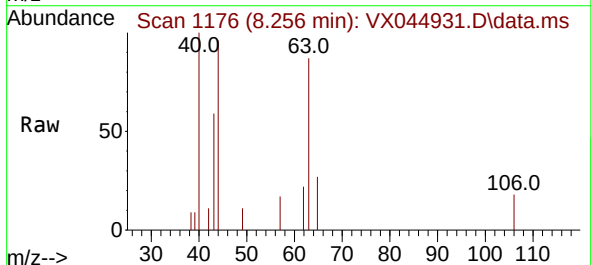
Manual Integrations
APPROVED

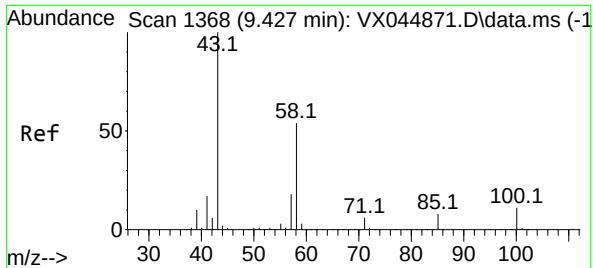
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#58
2-Chloroethyl Vinyl ether
Concen: 1.279 ug/l
RT: 8.256 min Scan# 1176
Delta R.T. 0.018 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

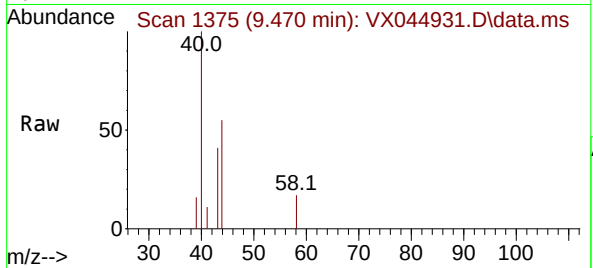
Tgt Ion: 63 Resp: 1425
Ion Ratio Lower Upper
63 100
106 29.2 21.3 31.9





#59
2-Hexanone
Concen: 0.287 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.043 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

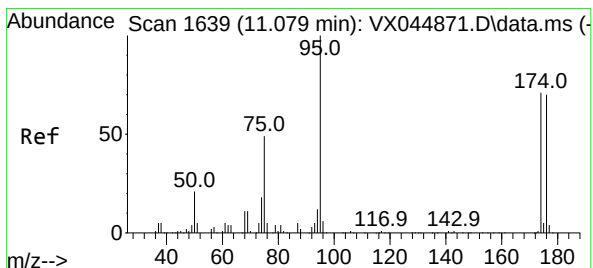
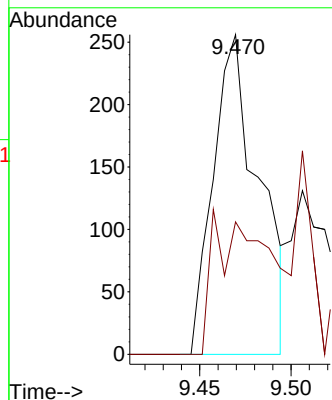
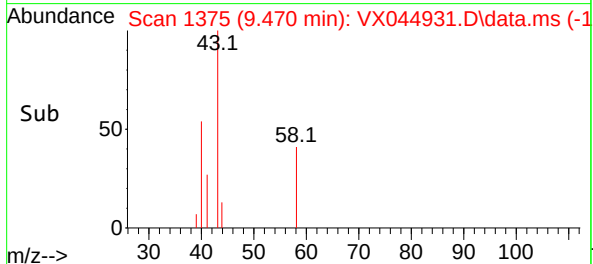
Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 43 Resp: 44
Ion Ratio Lower Upper
43 100
58 51.1 27.5 82.4

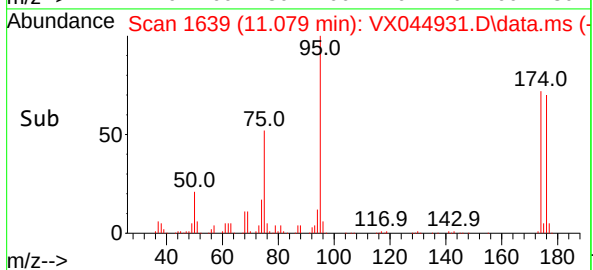
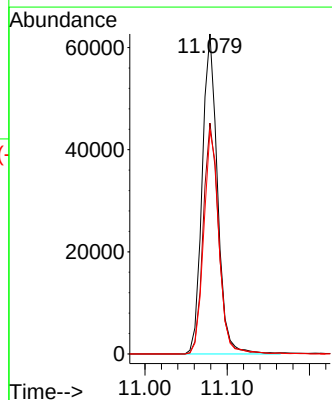
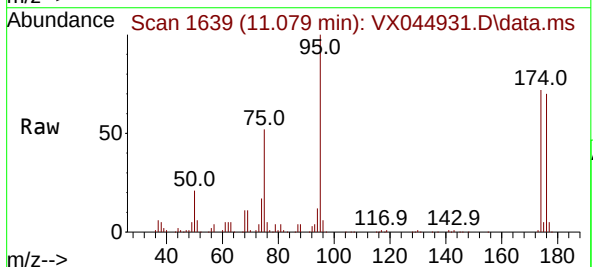
Manual Integrations
APPROVED

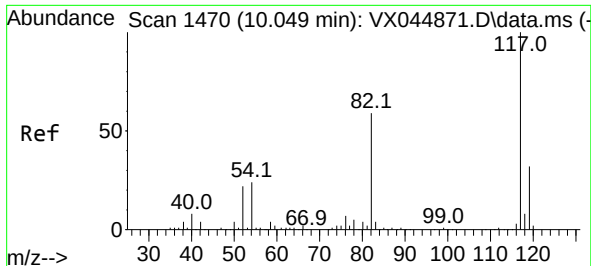
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#62
4-Bromofluorobenzene
Concen: 46.825 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

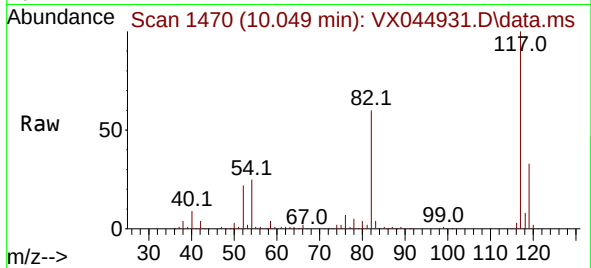
Tgt Ion: 95 Resp: 81319
Ion Ratio Lower Upper
95 100
174 72.4 0.0 142.6
176 69.8 0.0 141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

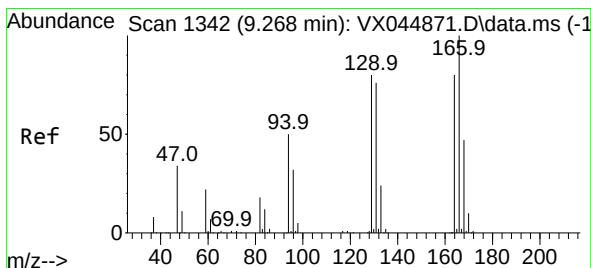
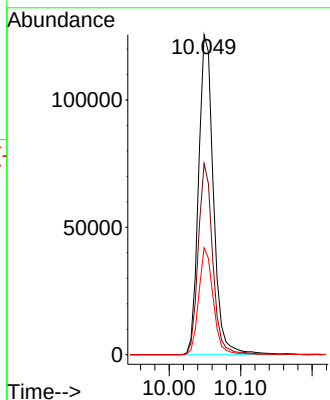
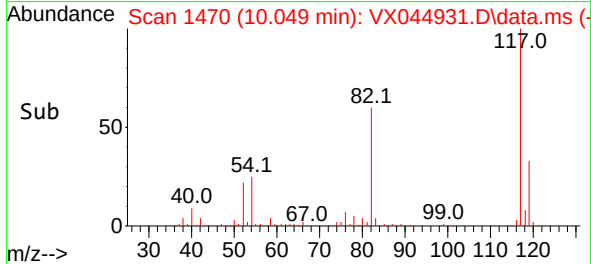
Instrument : MSVOA_X
ClientSampleId : LOD-MDL-WATER-01-QT1-2025



Tgt Ion:117 Resp: 18119
Ion Ratio Lower Upper
117 100
82 59.7 47.5 71.3
119 33.4 25.4 38.0

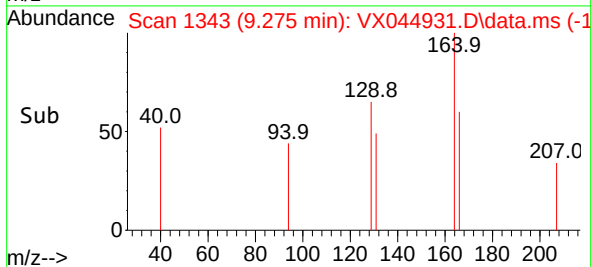
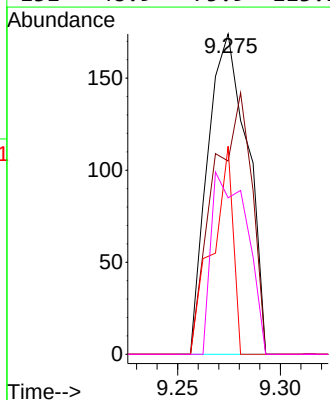
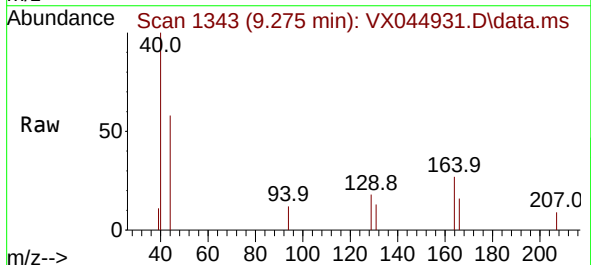
Manual Integrations
APPROVED

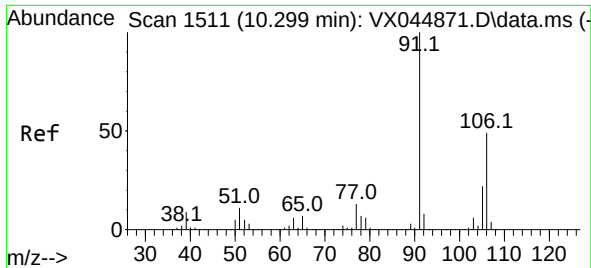
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#64
Tetrachloroethene
Concen: 0.204 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

Tgt Ion:164 Resp: 233
Ion Ratio Lower Upper
164 100
166 60.3 100.4 150.6#
129 64.9 79.9 119.9#
131 48.9 75.9 113.9#





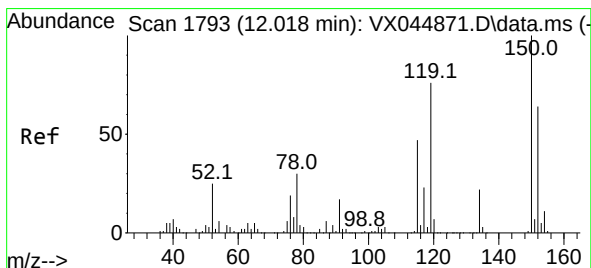
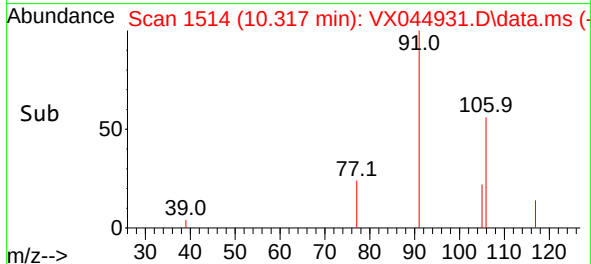
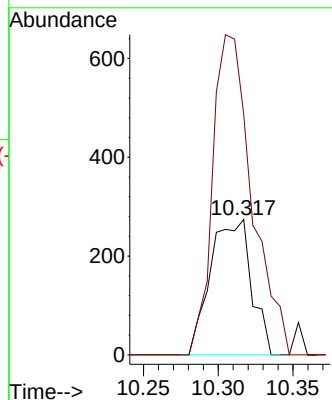
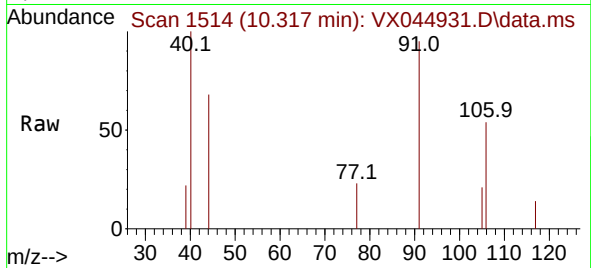
#68
m/p-Xylenes
Concen: 0.205 ug/l
RT: 10.317 min Scan# 1511
Delta R.T. 0.018 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

Instrument :
MSVOA_X
ClientSampleId :
LOD-MDL-WATER-01-QT1-2025

Tgt Ion:106 Resp: 520
Ion Ratio Lower Upper
106 100
91 227.9 164.3 246.5

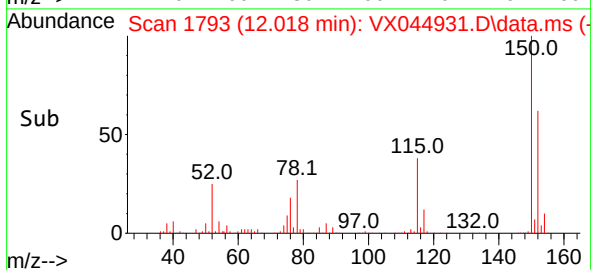
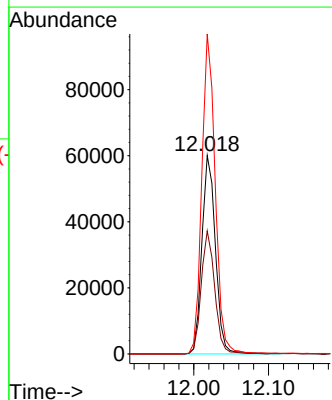
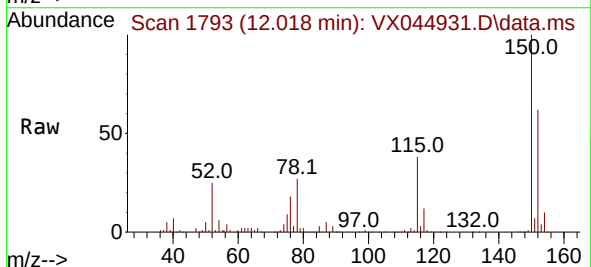
Manual Integrations
APPROVED

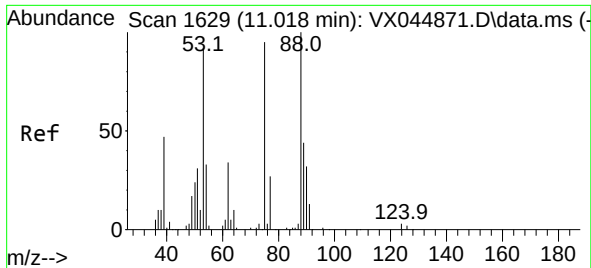
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044931.D
Acq: 12 Feb 2025 14:26

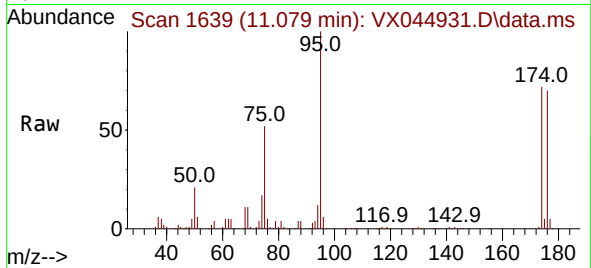
Tgt Ion:152 Resp: 75940
Ion Ratio Lower Upper
152 100
115 61.6 43.4 130.1
150 159.1 0.0 350.4





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.473 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX044931.D
 Acq: 12 Feb 2025 14:26

Instrument : MSVOA_X
 ClientSampleId : LOD-MDL-WATER-01-QT1-2025



Tgt Ion: 75 Resp: 42854
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0
 89 0.0 36.6 54.8

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/14/2025
 Supervised By :Mahesh Dadoda 02/14/2025

