

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW022822\
 Data File : VW024837.D
 Acq On : 28 Feb 2022 16:19
 Operator : SY/MD
 Sample : N1331-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT1-2022-01

Quant Time: Mar 01 02:57:35 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM022822WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 01 01:37:50 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/01/2022
 Supervised By : Mahesh Dadoda 03/01/2022

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	337616	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	327124	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	154647	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	144857	42.196	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	84.400%		
7) Chloroethane-d5	1.568	69	119082	44.213	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.420%		
11) 1,1-Dichloroethene-d2	2.108	63	199204	34.573	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	69.140%		
21) 2-Butanone-d5	3.883	46	189391	96.941	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	96.940%		
24) Chloroform-d	4.343	84	268885	44.869	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	89.740%		
26) 1,2-Dichloroethane-d4	5.027	65	165190	46.719	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.440%		
32) Benzene-d6	5.047	84	566580	46.728	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.460%		
36) 1,2-Dichloropropane-d6	6.066	67	180581	47.802	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	95.600%		
41) Toluene-d8	7.310	98	495729	46.150	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	92.300%		
43) trans-1,3-Dichloroprop...	7.619	79	74310	45.271	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	90.540%		
47) 2-Hexanone-d5	8.085	63	138320	96.464	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	96.460%		
56) 1,1,2,2-Tetrachloroeth...	10.211	84	212926	47.521	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	95.040%		
66) 1,2-Dichlorobenzene-d4	11.622	152	174470	48.976	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	97.960%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.131	85	7707	2.418	ug/L	98
3) Chloromethane	1.243	50	9268	2.810	ug/L	99
5) Vinyl chloride	1.311	62	8789	2.598	ug/L #	68
6) Bromomethane	1.523	94	5867	2.903	ug/L	97
8) Chloroethane	1.587	64	4930	2.486	ug/L	94
9) Trichlorofluoromethane	1.754	101	10093	2.333	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.114	101	7633	2.975	ug/L #	85
12) 1,1-Dichloroethene	2.118	96	7722	3.090	ug/L #	1
13) Acetone	2.185	43	7629	5.114	ug/L	88
14) Carbon disulfide	2.294	76	19946	2.613	ug/L	98
15) Methyl Acetate	2.439	43	6384	2.491	ug/L	99
16) Methylene chloride	2.510	84	7474	2.554	ug/L	99
17) trans-1,2-Dichloroethene	2.761	96	6756	2.500	ug/L	98
18) Methyl tert-butyl Ether	2.767	73	19640	2.383	ug/L	98
19) 1,1-Dichloroethane	3.192	63	11516	2.363	ug/L	96
20) cis-1,2-Dichloroethene	3.912	96	7175	2.453	ug/L	97
22) 2-Butanone	3.992	43	9475m	5.539	ug/L	
23) Bromochloromethane	4.253	128	3429	2.344	ug/L	91
25) Chloroform	4.372	83	14355	2.836	ug/L	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.137	62	8941	2.531	ug/L	99
29) Cyclohexane	4.674	56	10222	2.389	ug/L	99
30) 1,1,1-Trichloroethane	4.603	97	10410	2.417	ug/L	98
31) Carbon tetrachloride	4.825	117	8525	2.328	ug/L	99
33) Benzene	5.098	78	26602	2.410	ug/L	100
34) Trichloroethene	5.912	95	7981	2.637	ug/L	94
35) Methylcyclohexane	6.127	83	11581	2.522	ug/L	98
37) 1,2-Dichloropropane	6.175	63	6120	2.209	ug/L #	94
38) Bromodichloromethane	6.513	83	8380	2.308	ug/L	93
39) cis-1,3-Dichloropropene	7.031	75	9458	2.268	ug/L	98
40) 4-Methyl-2-pentanone	7.230	43	14712	4.454	ug/L	99
42) Toluene	7.391	91	35941	3.120	ug/L	97
44) trans-1,3-Dichloropropene	7.658	75	10190	2.660	ug/L	100
45) 1,1,2-Trichloroethane	7.841	97	6298	2.340	ug/L	96
46) Tetrachloroethene	7.973	164	4841	2.477	ug/L	91
48) 2-Hexanone	8.143	43	22184	8.534	ug/L	96
49) Dibromochloromethane	8.246	129	5873	2.258	ug/L	95
50) 1,2-Dibromoethane	8.355	107	6782	2.443	ug/L #	93
51) Chlorobenzene	8.883	112	17909	2.464	ug/L	94
52) Ethylbenzene	9.014	91	29017	2.388	ug/L	100
53) m,p-Xylene	9.140	106	10684	2.288	ug/L	94
54) o-Xylene	9.542	106	10813	2.397	ug/L	96
55) Styrene	9.564	104	16888	2.206	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.239	83	10694	2.840	ug/L	98
59) Bromoform	9.728	173	2979	2.115	ug/L #	94
60) Isopropylbenzene	9.931	105	27317	2.432	ug/L	99
61) 1,2,3-Trichloropropane	10.272	75	8086	2.613	ug/L	98
62) 1,3,5-Trimethylbenzene	10.539	105	18237	2.407	ug/L	98
63) 1,2,4-Trimethylbenzene	10.915	105	22659	2.440	ug/L	99
64) 1,3-Dichlorobenzene	11.182	146	12897	2.617	ug/L	98
65) 1,4-Dichlorobenzene	11.268	146	13100	2.596	ug/L	97
67) 1,2-Dichlorobenzene	11.638	146	13139	2.649	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.429	75	1532	2.169	ug/L	94
69) 1,3,5-Trichlorobenzene	12.645	180	8581	2.579	ug/L	97
70) 1,2,4-trichlorobenzene	13.262	180	7191	2.481	ug/L	97
71) Naphthalene	13.503	128	22883	2.437	ug/L	97
72) 1,2,3-Trichlorobenzene	13.744	180	7302	2.555	ug/L	99

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

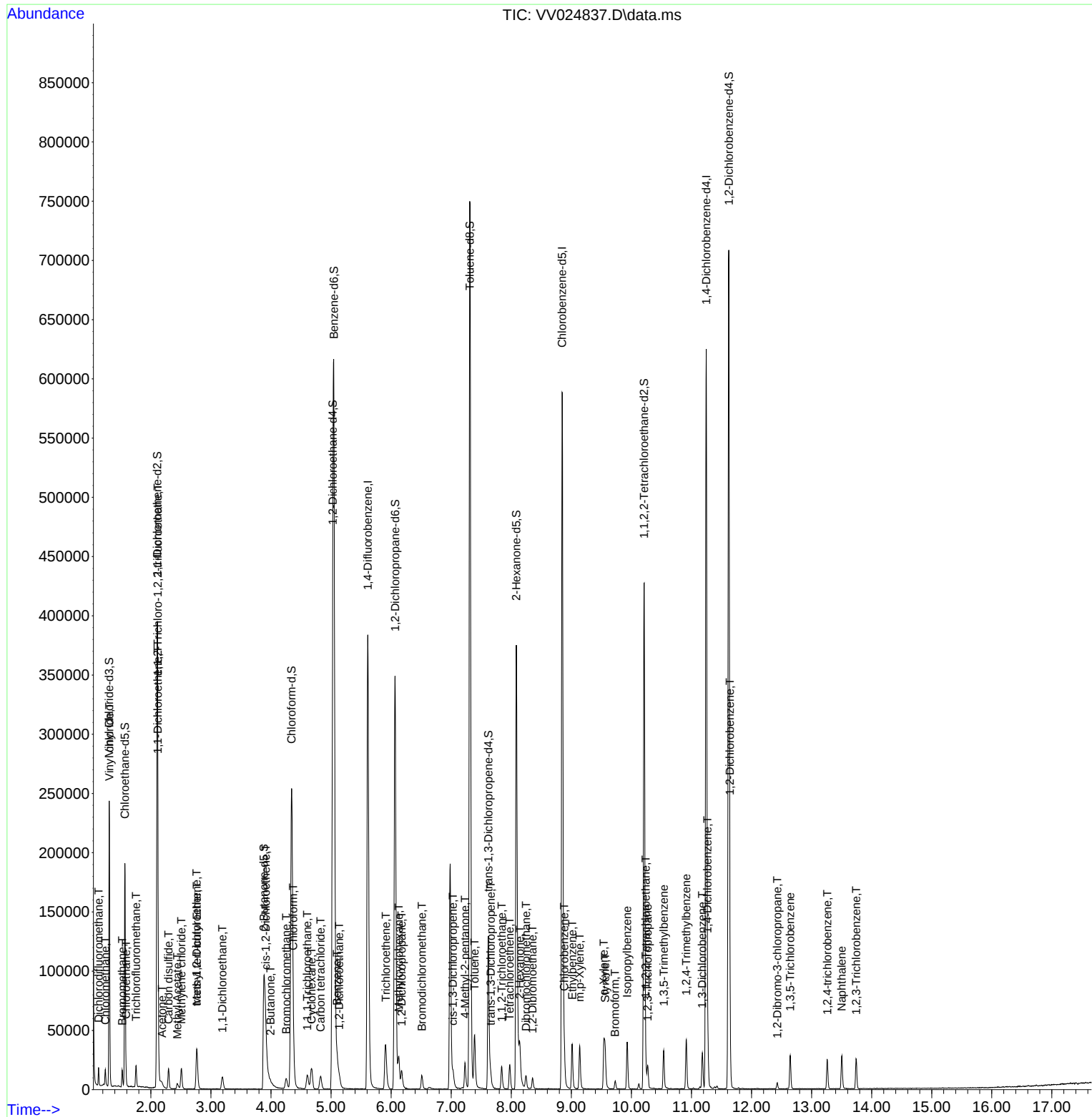
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Data File : VV024837.D
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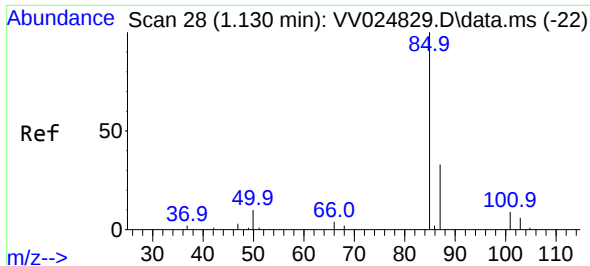
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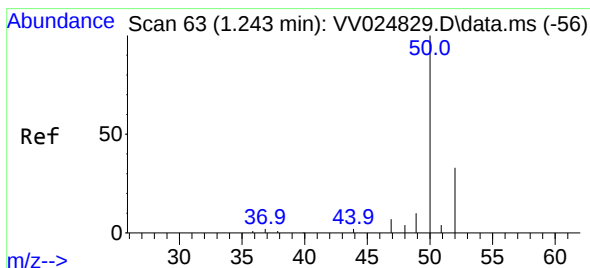
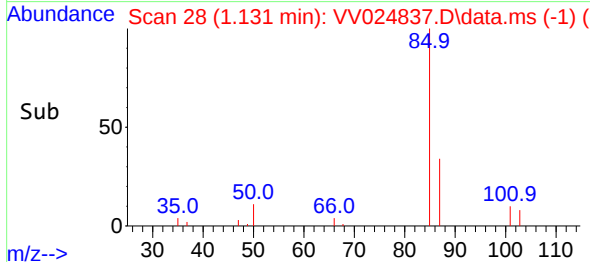
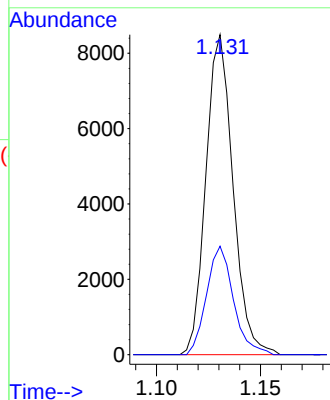
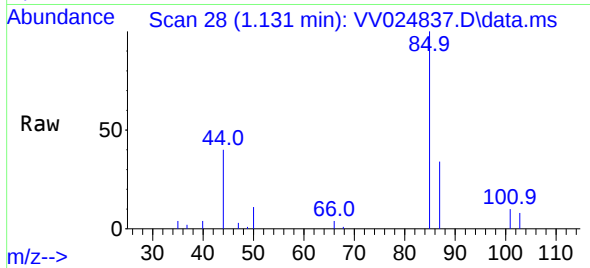
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 Dichlorodifluoromethane
 Concen: 2.418 ug/L
 RT: 1.131 min Scan# 28
 Delta R.T. 0.000 min
 Lab File: VV024837.D
 Acq: 28 Feb 2022 16:19

Instrument : MSVOA_V
 ClientSampleId :
 MDL-WATER-QT1-2022-01

Tgt Ion: 85 Resp: 770
 Ion Ratio Lower Upper
 85 100
 87 33.6 25.8 38.8

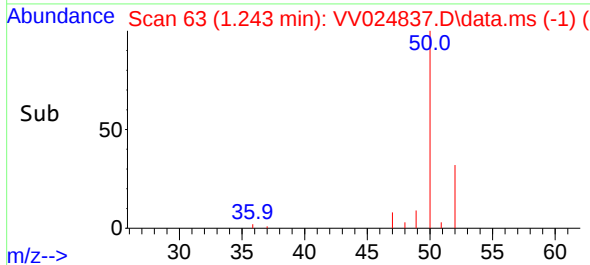
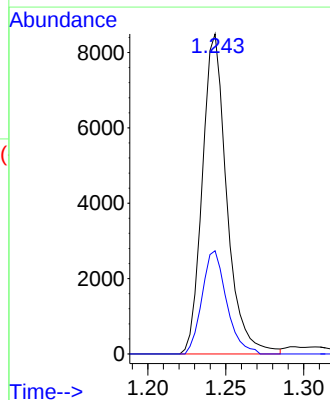
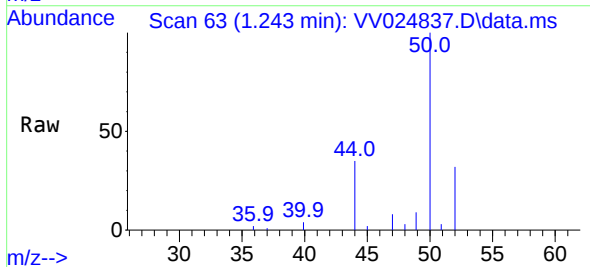
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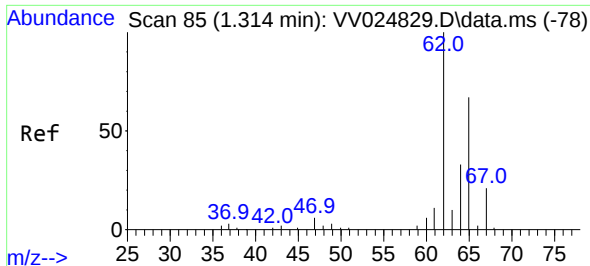
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#3
 Chloromethane
 Concen: 2.810 ug/L
 RT: 1.243 min Scan# 63
 Delta R.T. 0.000 min
 Lab File: VV024837.D
 Acq: 28 Feb 2022 16:19

Tgt Ion: 50 Resp: 9268
 Ion Ratio Lower Upper
 50 100
 52 32.3 22.8 42.4





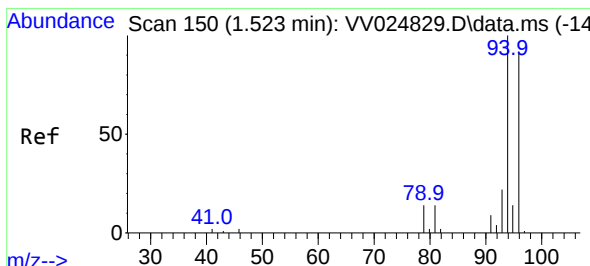
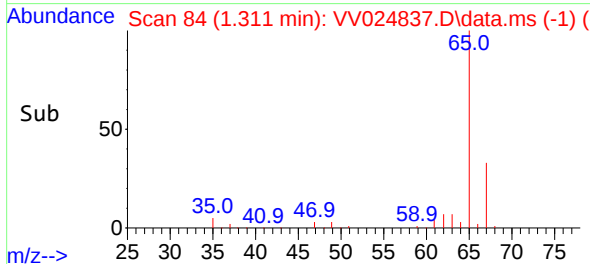
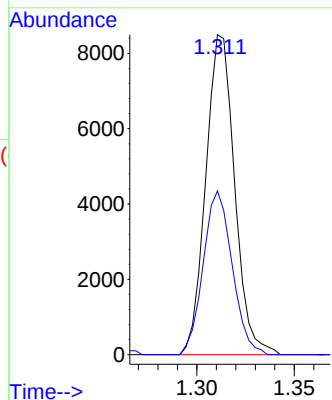
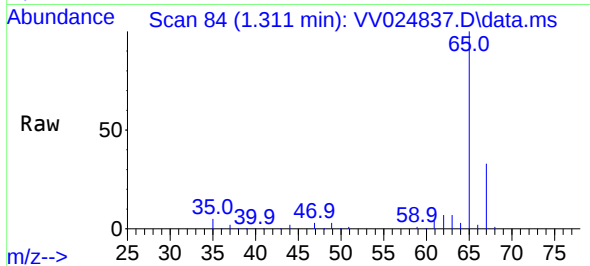
#5
 Vinyl chloride
 Concen: 2.598 ug/L
 RT: 1.311 min Scan# 84
 Delta R.T. 0.000 min
 Lab File: VV024837.D
 Acq: 28 Feb 2022 16:19

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT1-2022-01

Tgt Ion: 62 Resp: 8789
 Ion Ratio Lower Upper
 62 100
 64 51.2 23.2 43.0

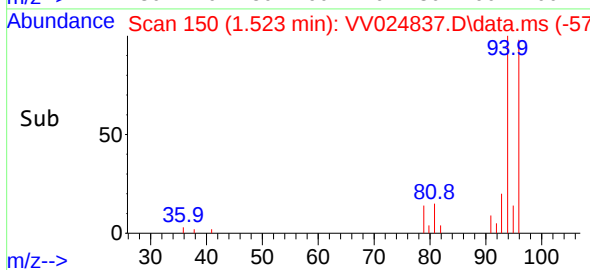
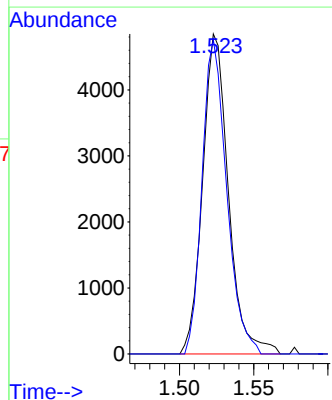
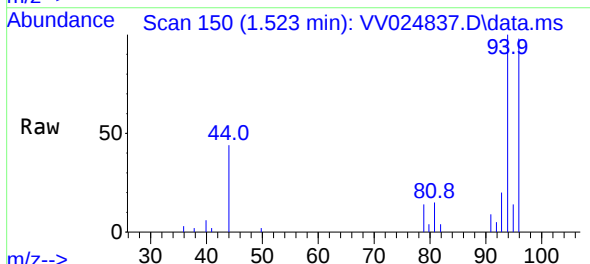
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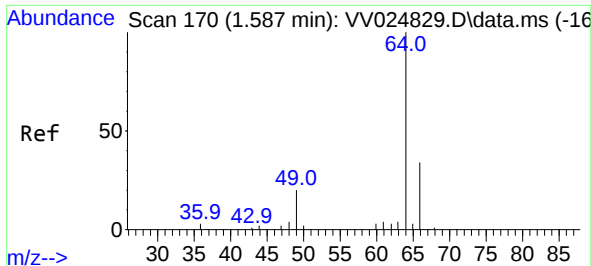
Reviewed By :John Carlone 03/01/2022
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#6
 Bromomethane
 Concen: 2.903 ug/L
 RT: 1.523 min Scan# 150
 Delta R.T. 0.000 min
 Lab File: VV024837.D
 Acq: 28 Feb 2022 16:19

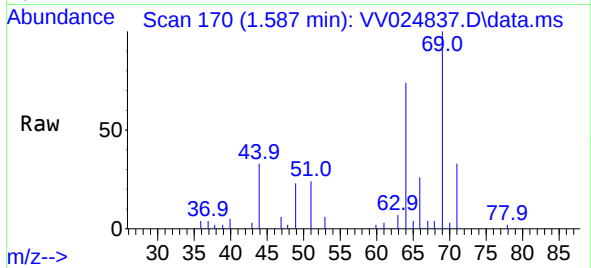
Tgt Ion: 94 Resp: 5867
 Ion Ratio Lower Upper
 94 100
 96 98.3 66.7 123.9





#8
Chloroethane
Concen: 2.486 ug/L
RT: 1.587 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

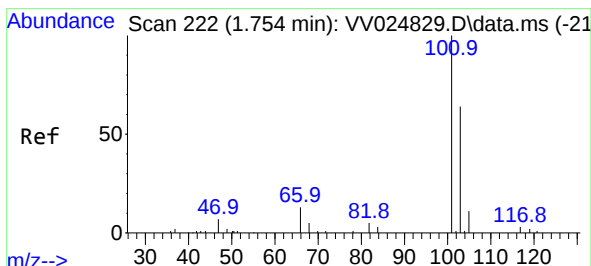
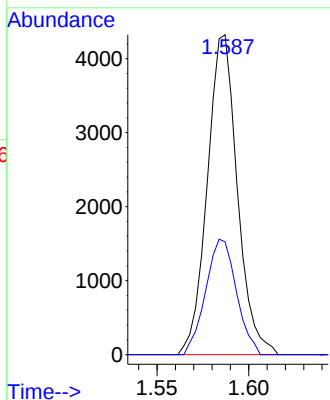
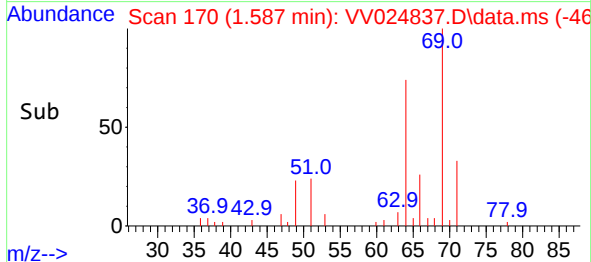
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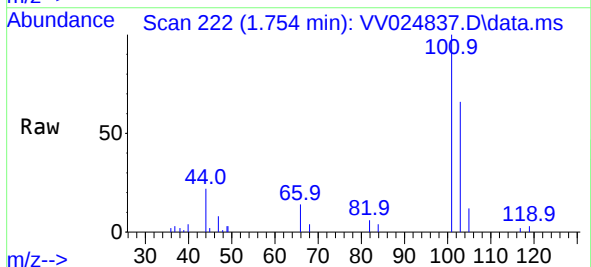
Tgt Ion: 64 Resp: 4930
Ion Ratio Lower Upper
64 100
66 35.3 22.2 41.2

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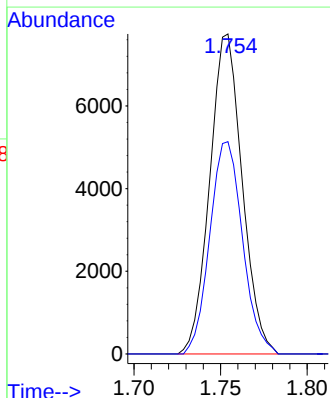
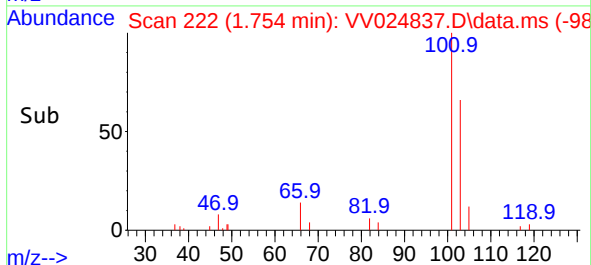
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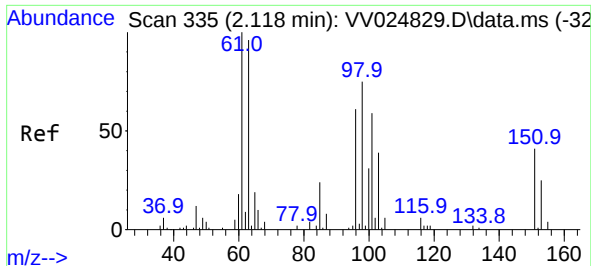


#9
Trichlorofluoromethane
Concen: 2.333 ug/L
RT: 1.754 min Scan# 222
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



Tgt Ion:101 Resp: 10093
Ion Ratio Lower Upper
101 100
103 66.9 52.1 78.1





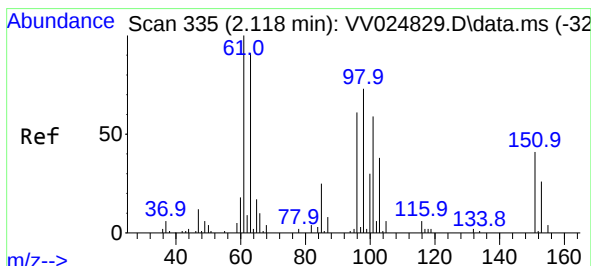
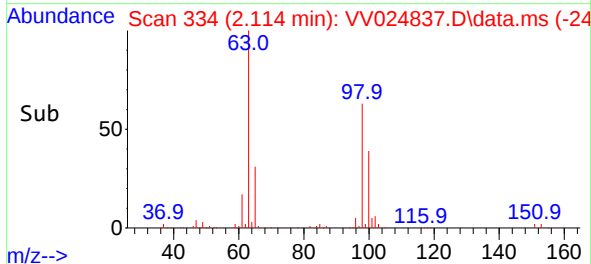
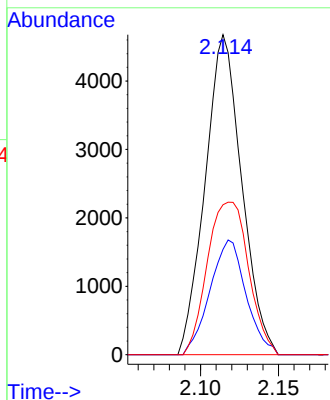
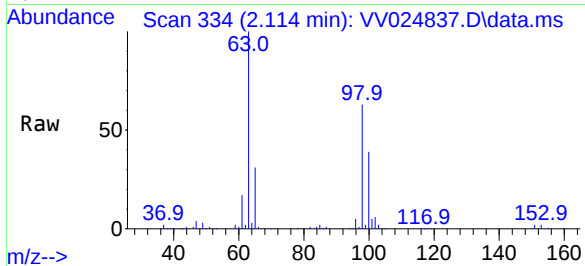
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.975 ug/L
RT: 2.114 min Scan# 311
Delta R.T. -0.003 min
Lab File: VV024837.D
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MSVOA_V
ClientSampleId :
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Tgt Ion:101 Resp: 763
Ion Ratio Lower Upper
101 100
85 35.4 33.8 50.8
151 53.8 54.1 81.1

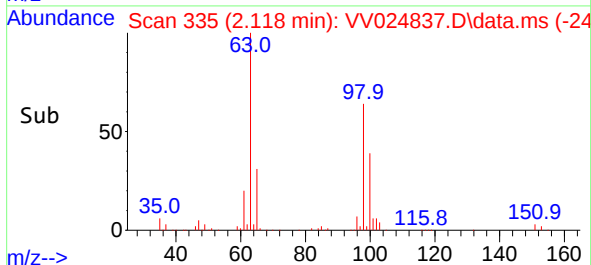
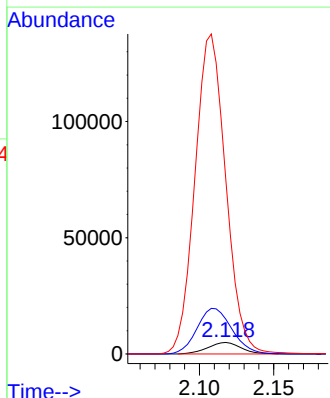
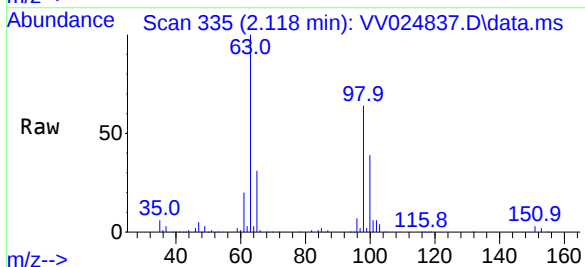
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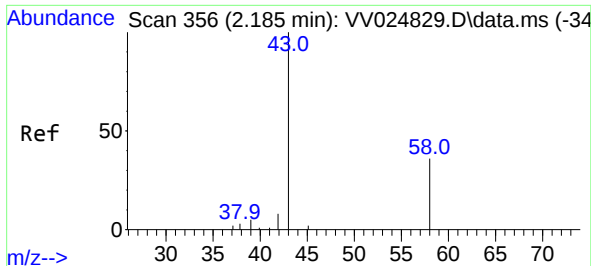
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#12
1,1-Dichloroethene
Concen: 3.090 ug/L
RT: 2.118 min Scan# 335
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion: 96 Resp: 7722
Ion Ratio Lower Upper
96 100
61 302.1 117.6 218.4#
63 1519.2 105.3 195.5#





#13

Acetone

Concen: 5.114 ug/L

RT: 2.185 min Scan# 30

Delta R.T. 0.000 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Instrument :

MSVOA_V

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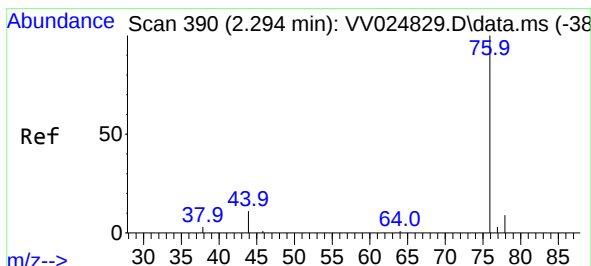
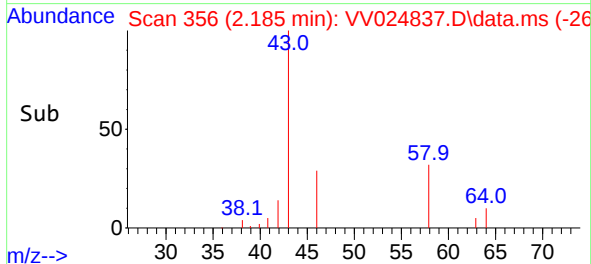
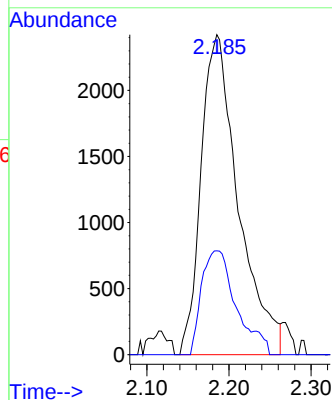
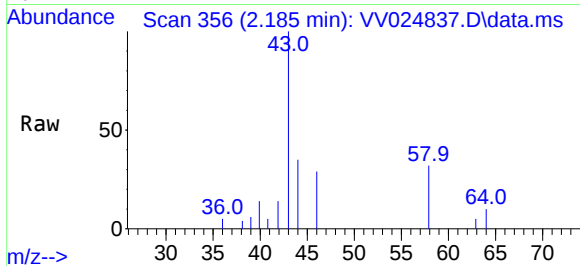
MDL-WATER-QT1-2022-01

Tgt Ion: 43 Resp: 7629
 Ion Ratio Lower Upper
 43 100
 58 28.0 0.0 70.0

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#14

Carbon disulfide

Concen: 2.613 ug/L

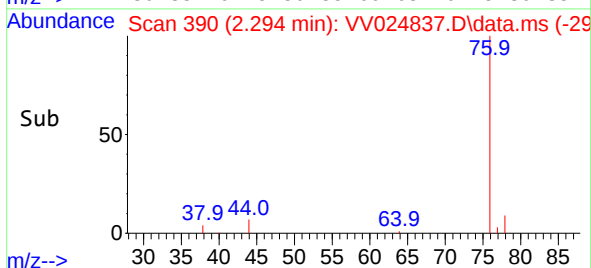
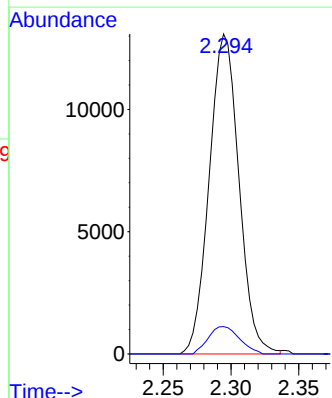
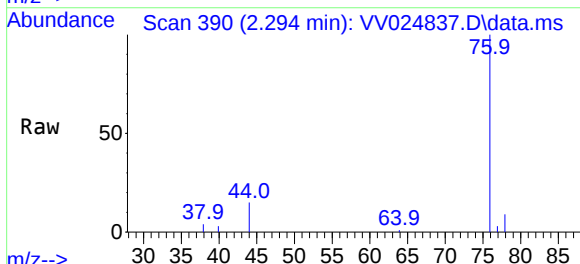
RT: 2.294 min Scan# 390

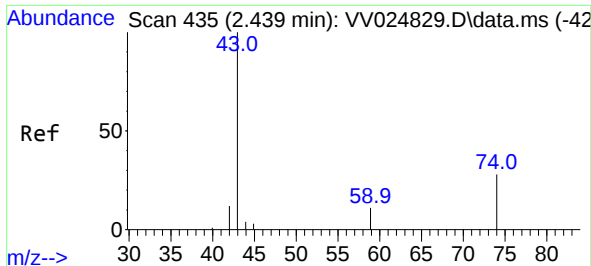
Delta R.T. 0.000 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

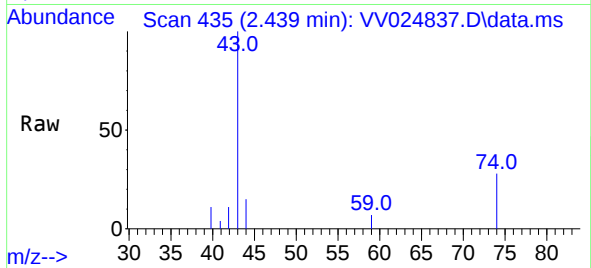
Tgt Ion: 76 Resp: 19946
 Ion Ratio Lower Upper
 76 100
 78 8.6 7.4 11.0





#15
Methyl Acetate
Concen: 2.491 ug/L
RT: 2.439 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

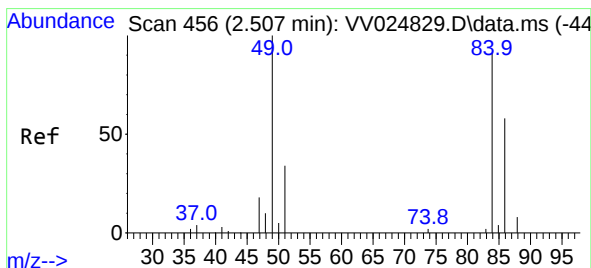
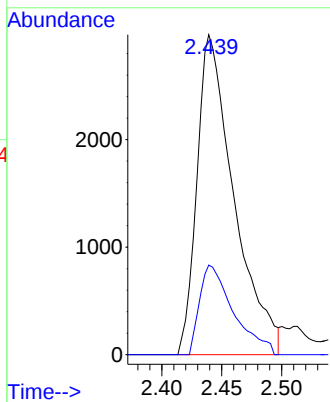
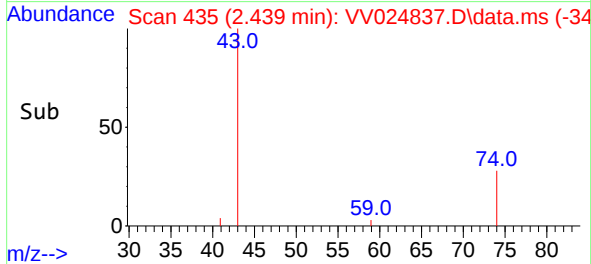
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01



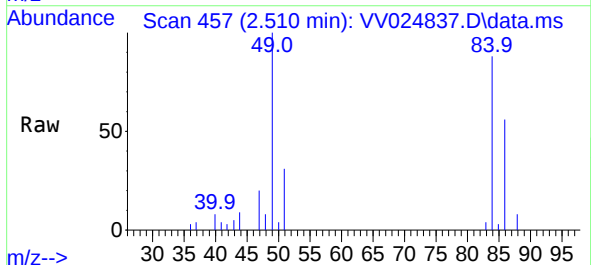
Tgt Ion: 43 Resp: 6384
Ion Ratio Lower Upper
43 100
74 25.7 21.0 31.4

Manual Integrations
APPROVED

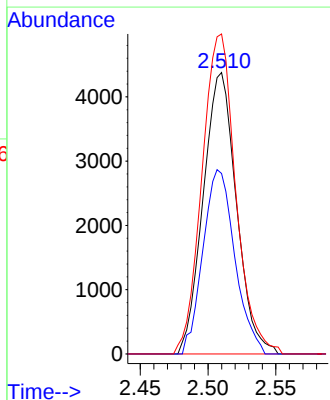
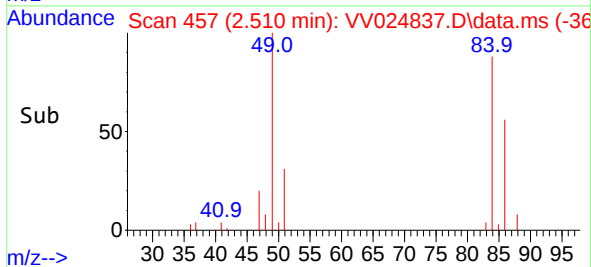
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022

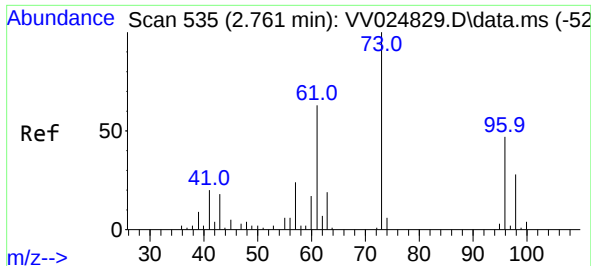


#16
Methylene chloride
Concen: 2.554 ug/L
RT: 2.510 min Scan# 457
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



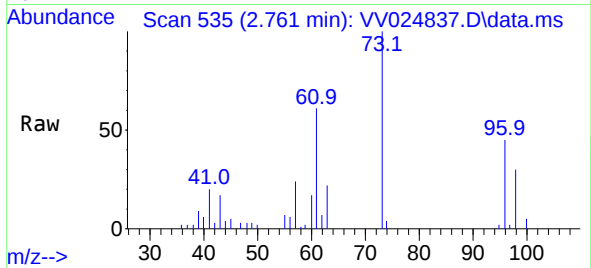
Tgt Ion: 84 Resp: 7474
Ion Ratio Lower Upper
84 100
86 64.1 44.3 82.3
49 113.7 80.7 149.9





#17
trans-1,2-Dichloroethene
Concen: 2.500 ug/L
RT: 2.761 min Scan# 511
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

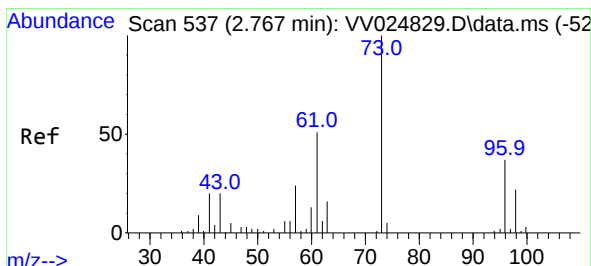
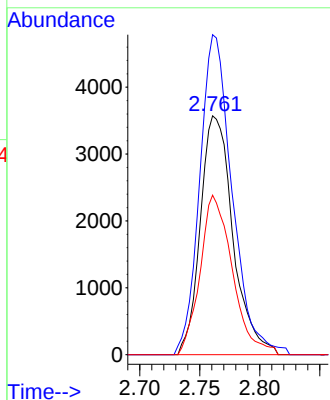
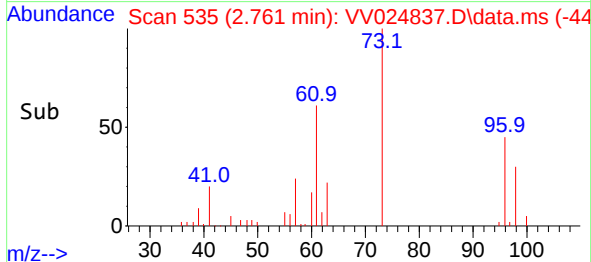
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01



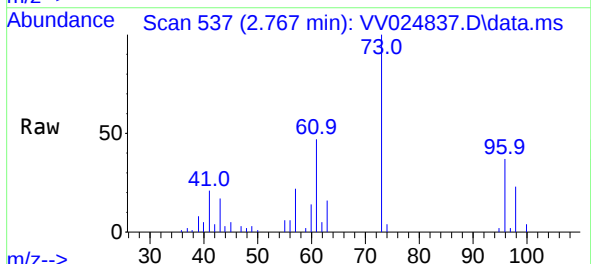
Tgt Ion: 96 Resp: 6750
Ion Ratio Lower Upper
96 100
61 134.0 93.7 173.9
98 66.8 43.7 81.1

Manual Integrations
APPROVED

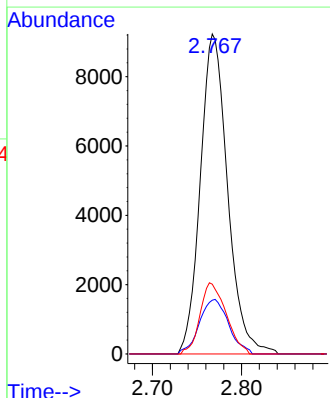
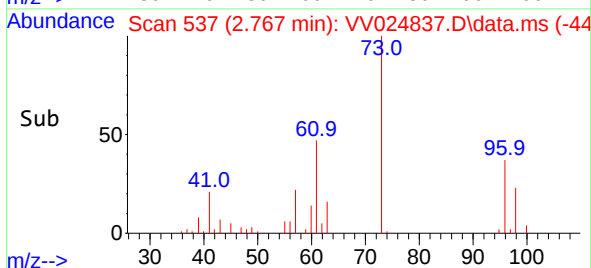
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022

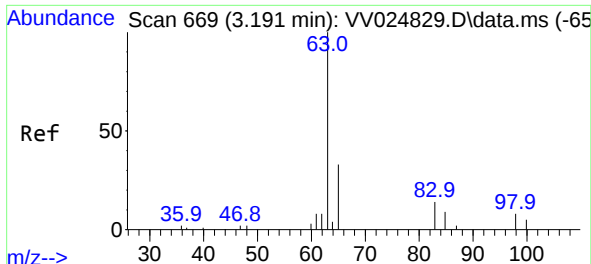


#18
Methyl tert-butyl Ether
Concen: 2.383 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



Tgt Ion: 73 Resp: 19640
Ion Ratio Lower Upper
73 100
43 18.2 13.6 20.4
57 21.3 17.4 26.2





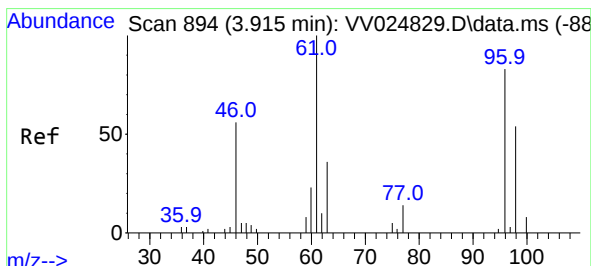
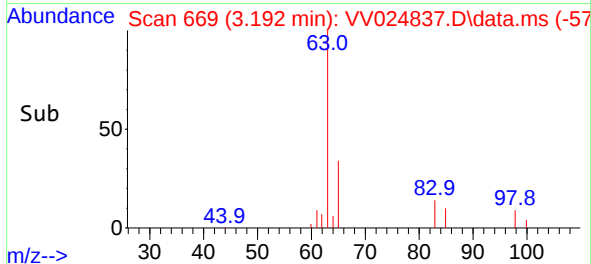
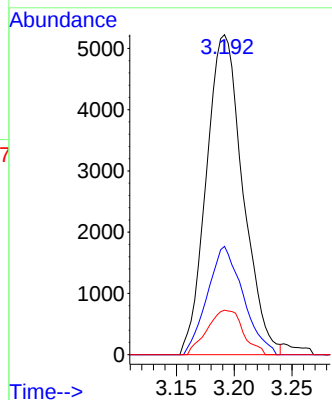
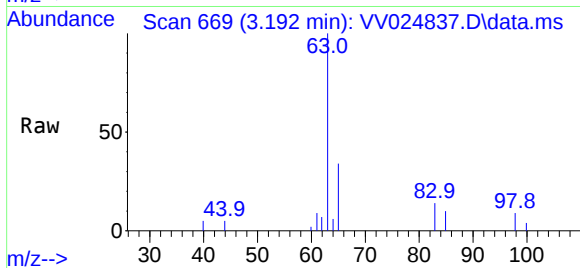
#19
1,1-Dichloroethane
Concen: 2.363 ug/L
RT: 3.192 min Scan# 611
Delta R.T. 0.004 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion: 63 Resp: 11510
Ion Ratio Lower Upper
63 100
65 33.8 22.0 40.8
83 13.9 9.2 17.0

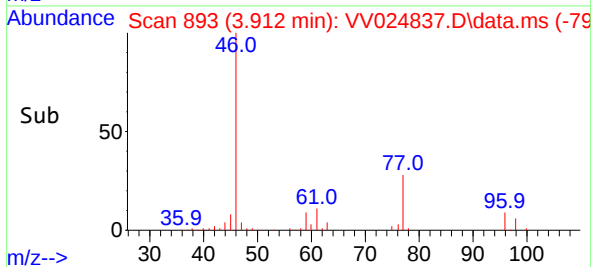
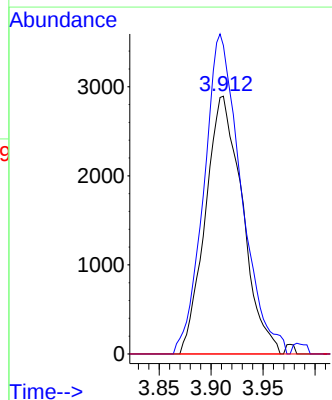
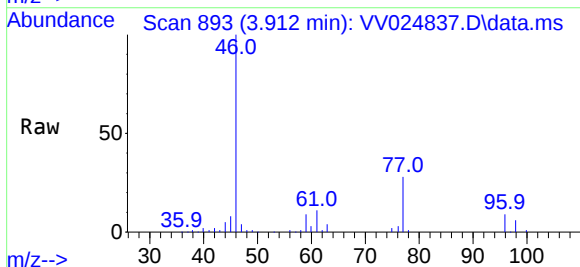
Manual Integrations
APPROVED

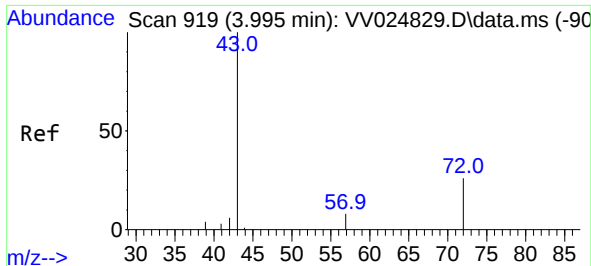
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#20
cis-1,2-Dichloroethene
Concen: 2.453 ug/L
RT: 3.912 min Scan# 893
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion: 96 Resp: 7175
Ion Ratio Lower Upper
96 100
61 119.7 86.1 159.9
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.539 ug/L m

RT: 3.992 min Scan# 919

Delta R.T. 0.019 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT1-2022-01

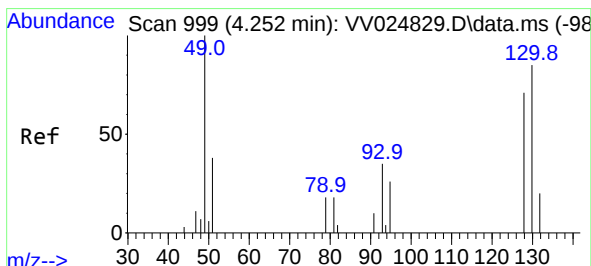
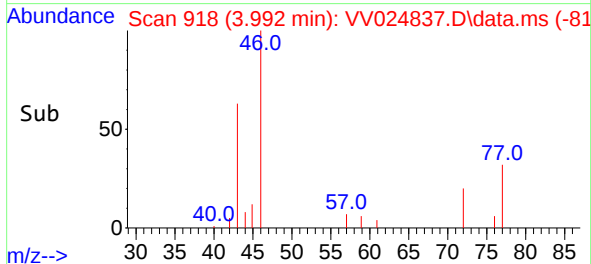
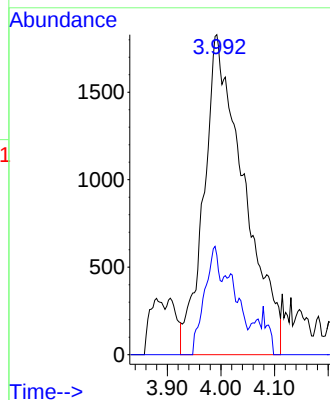
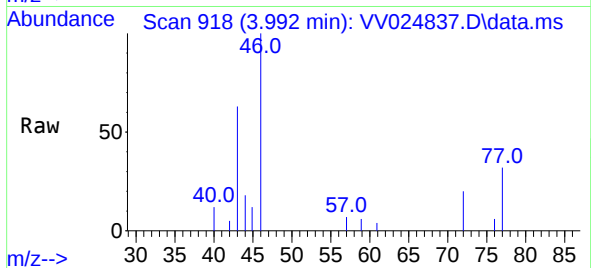
Tgt Ion: 43 Resp: 9475
 Ion Ratio Lower Upper
 43 100
 72 13.2 13.9 41.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/01/2022

Supervised By :Mahesh Dadoda 03/01/2022



#23

Bromochloromethane

Concen: 2.344 ug/L

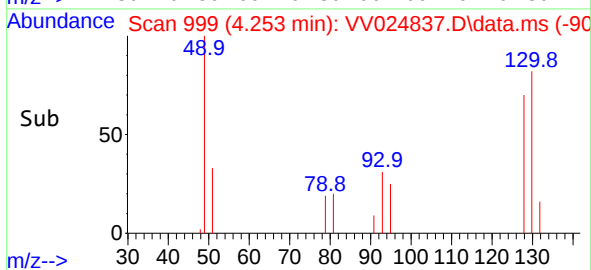
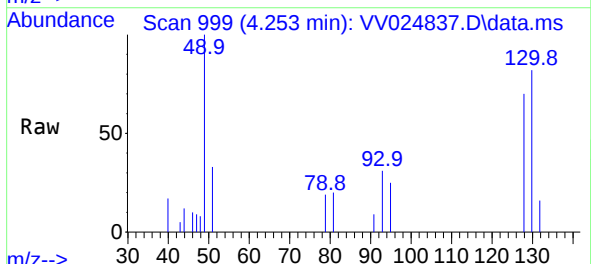
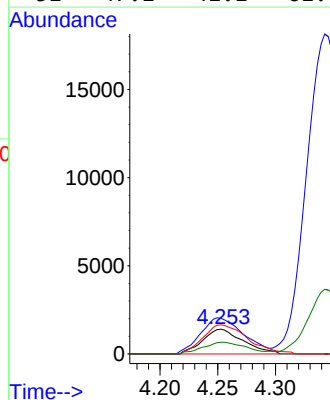
RT: 4.253 min Scan# 999

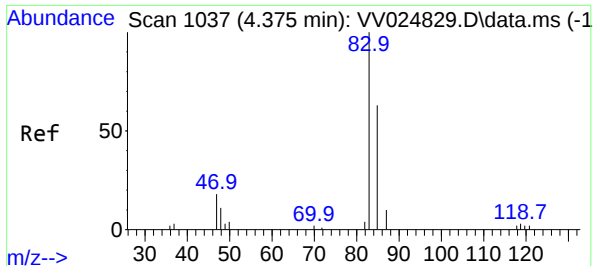
Delta R.T. 0.007 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Tgt Ion:128 Resp: 3429
 Ion Ratio Lower Upper
 128 100
 49 143.4 110.9 205.9
 130 117.5 88.5 164.3
 51 47.1 41.1 61.7





#25

Chloroform

Concen: 2.836 ug/L

RT: 4.372 min Scan# 1036

Delta R.T. -0.003 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT1-2022-01

Tgt Ion: 83 Resp: 1435

Ion Ratio Lower Upper

83 100

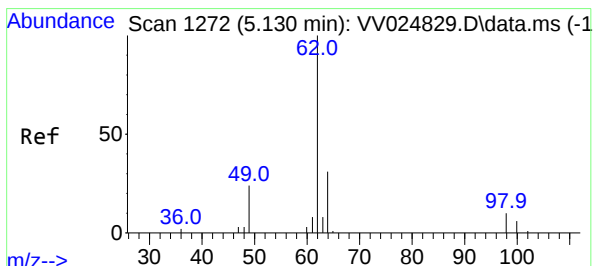
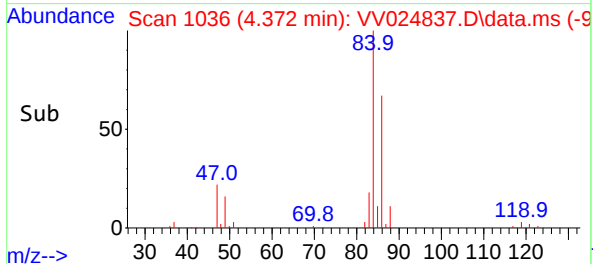
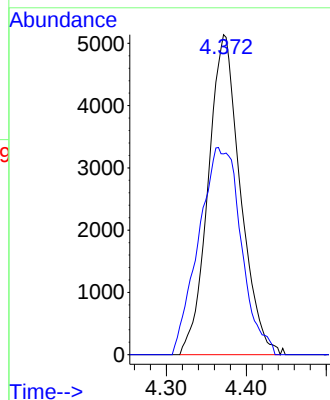
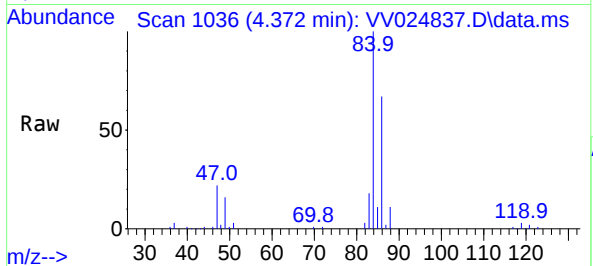
85 62.7 46.0 85.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/01/2022

Supervised By :Mahesh Dadoda 03/01/2022



#27

1,2-Dichloroethane

Concen: 2.531 ug/L

RT: 5.137 min Scan# 1274

Delta R.T. 0.010 min

Lab File: VV024837.D

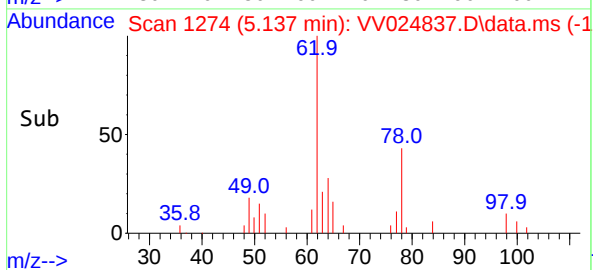
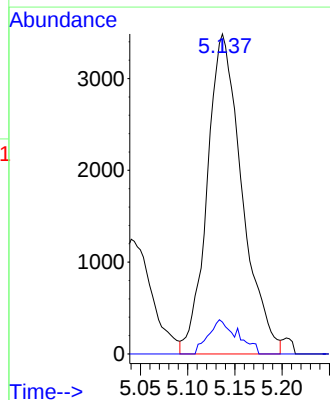
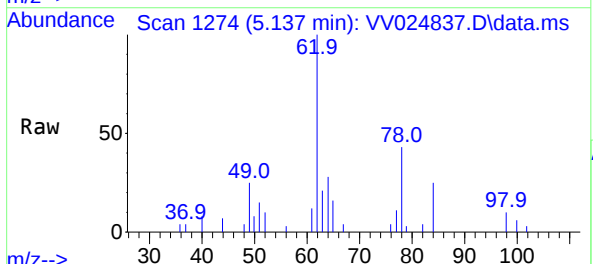
Acq: 28 Feb 2022 16:19

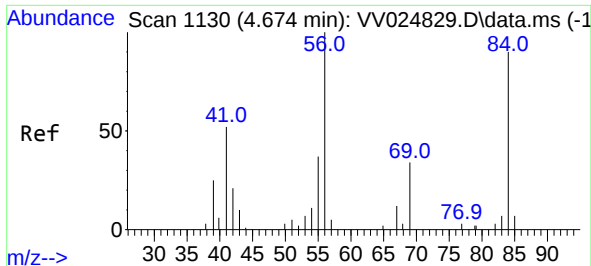
Tgt Ion: 62 Resp: 8941

Ion Ratio Lower Upper

62 100

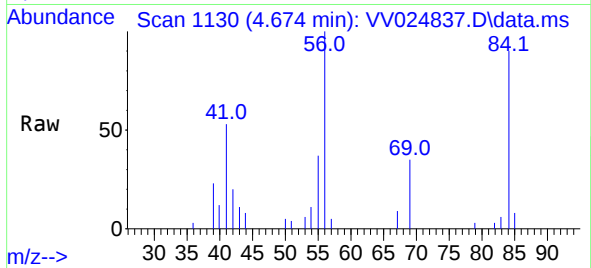
98 10.0 8.2 12.4





#29
Cyclohexane
Concen: 2.389 ug/L
RT: 4.674 min Scan# 1130
Delta R.T. -0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

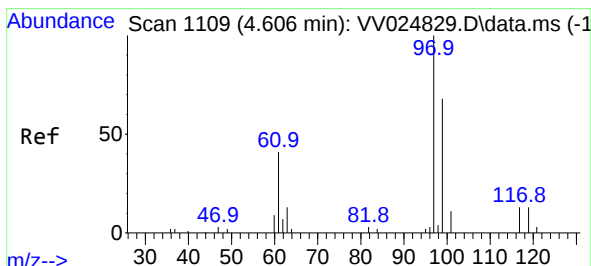
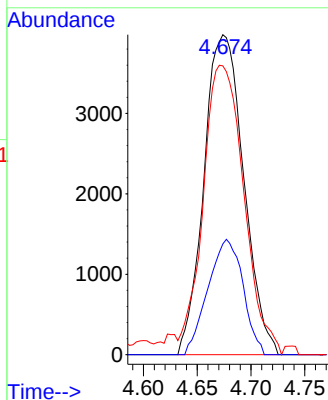
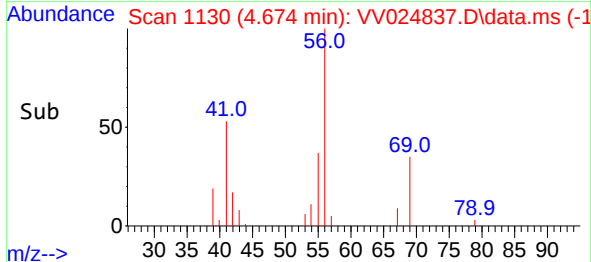
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT1-2022-01



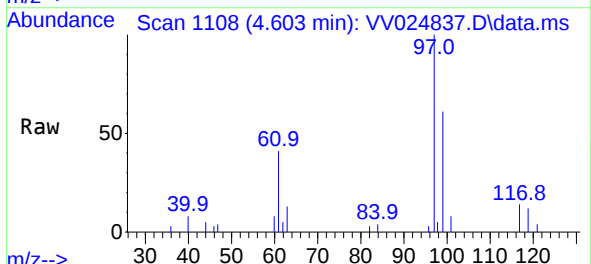
Tgt Ion: 56 Resp: 1022
Ion Ratio Lower Upper
56 100
69 31.7 25.0 37.6
84 92.7 73.4 110.2

Manual Integrations
APPROVED

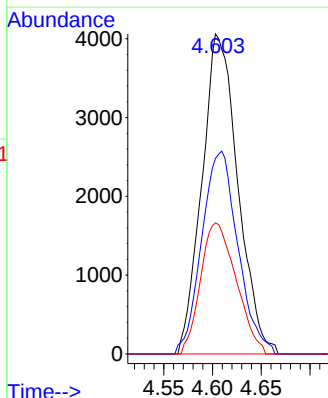
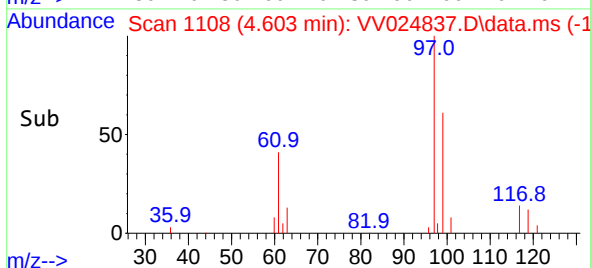
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022

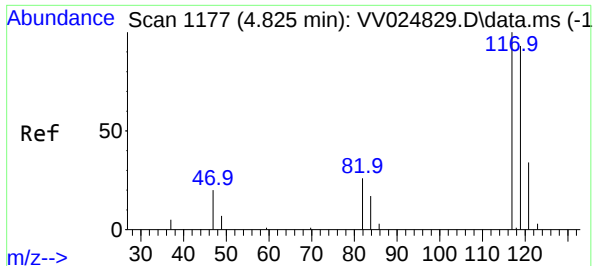


#30
1,1,1-Trichloroethane
Concen: 2.417 ug/L
RT: 4.603 min Scan# 1108
Delta R.T. -0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



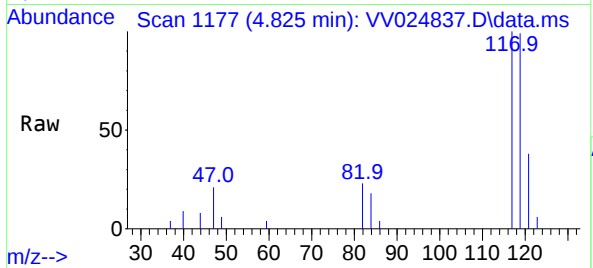
Tgt Ion: 97 Resp: 10410
Ion Ratio Lower Upper
97 100
99 63.7 51.5 77.3
61 40.6 33.8 50.8





#31
Carbon tetrachloride
Concen: 2.328 ug/L
RT: 4.825 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

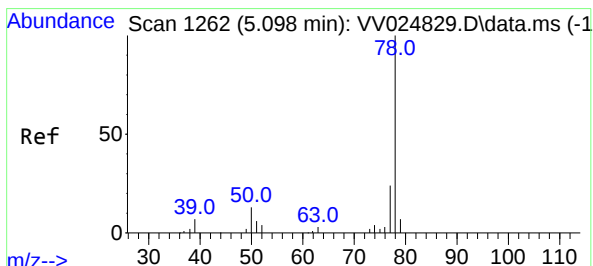
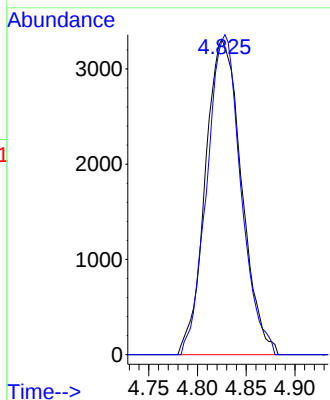
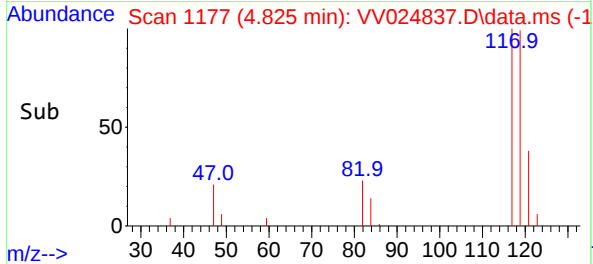
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT1-2022-01



Tgt Ion:117 Resp: 852
Ion Ratio Lower Upper
117 100
119 95.4 75.8 113.8

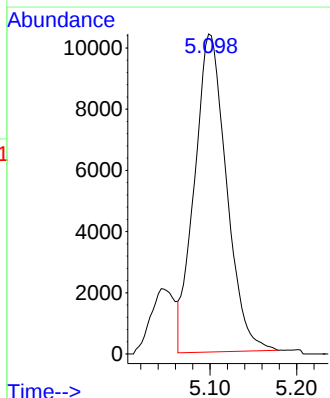
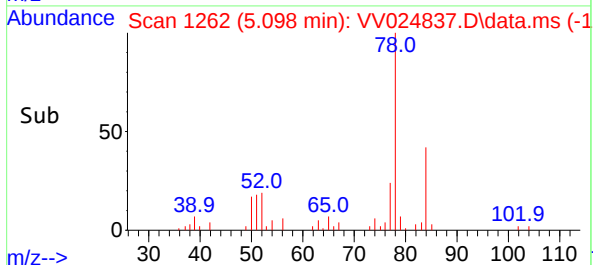
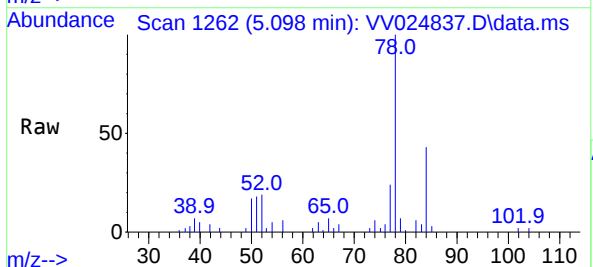
Manual Integrations
APPROVED

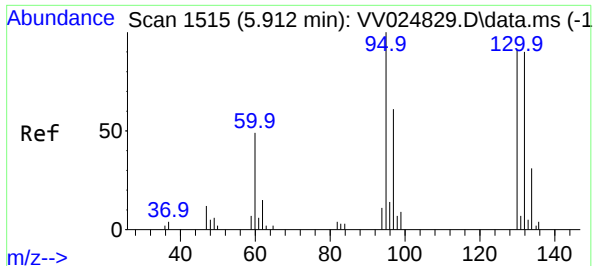
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#33
Benzene
Concen: 2.410 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

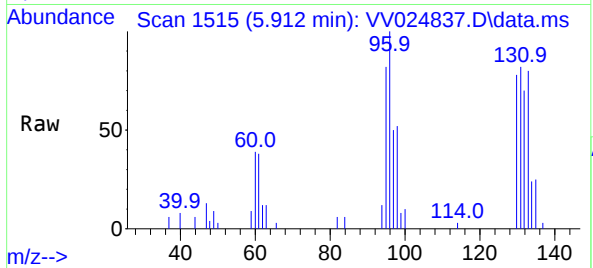
Tgt Ion: 78 Resp: 26602





#34
Trichloroethene
Concen: 2.637 ug/L
RT: 5.912 min Scan# 1515
Delta R.T. -0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

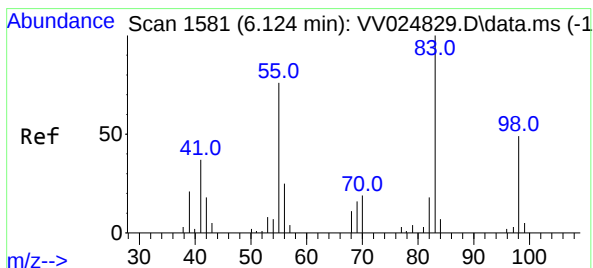
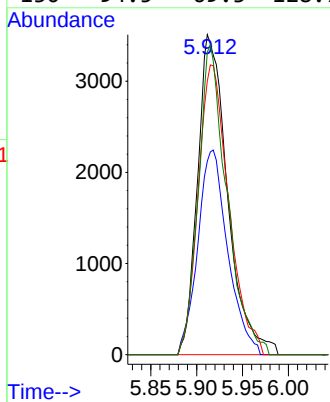
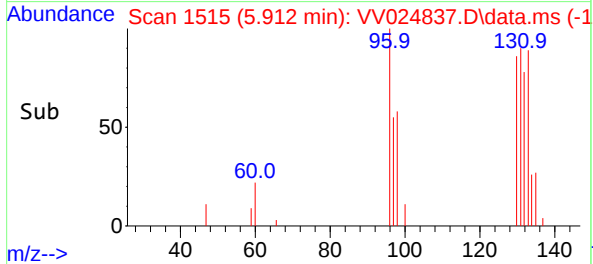
Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01



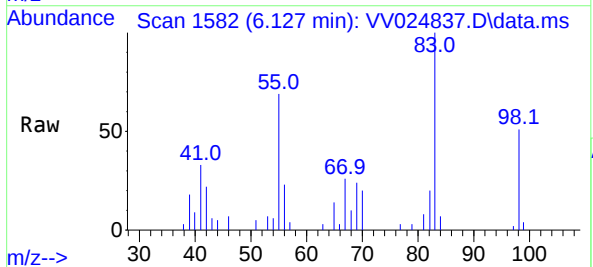
Tgt Ion: 95 Resp: 798
Ion Ratio Lower Upper
95 100
97 60.5 45.3 84.1
132 85.5 65.0 120.6
130 94.5 69.3 128.7

Manual Integrations
APPROVED

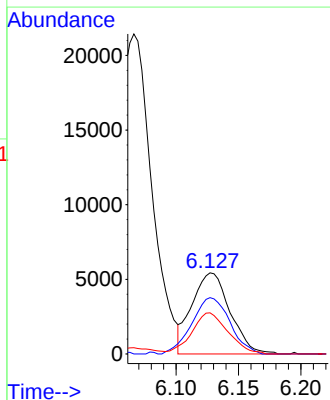
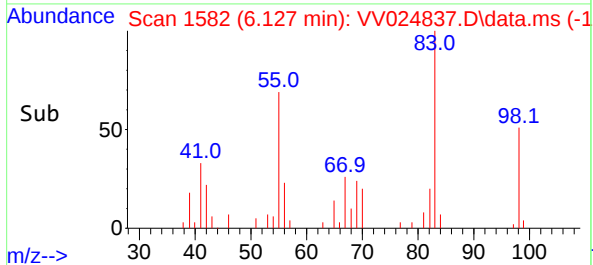
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022

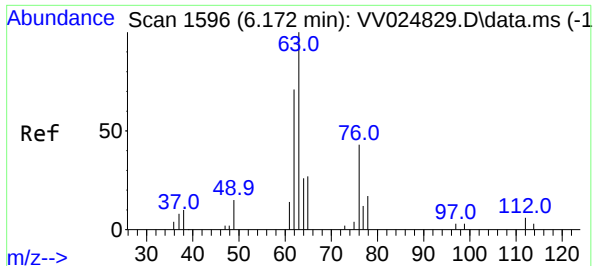


#35
Methylcyclohexane
Concen: 2.522 ug/L
RT: 6.127 min Scan# 1582
Delta R.T. -0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



Tgt Ion: 83 Resp: 11581
Ion Ratio Lower Upper
83 100
55 69.0 57.7 86.5
98 48.1 38.9 58.3





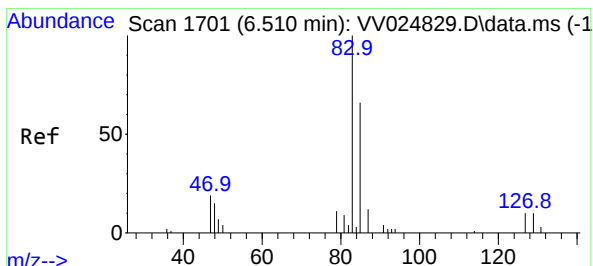
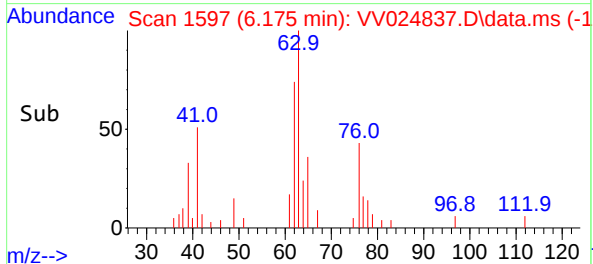
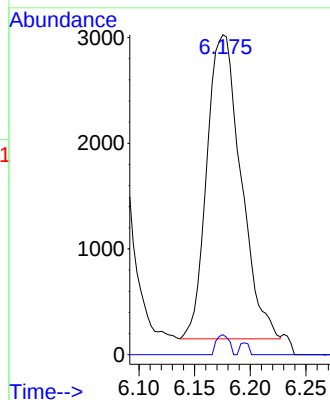
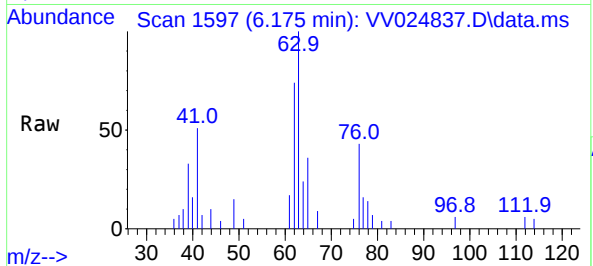
#37
1,2-Dichloropropane
Concen: 2.209 ug/L
RT: 6.175 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion: 63 Resp: 6120
Ion Ratio Lower Upper
63 100
112 2.5 3.6 5.4

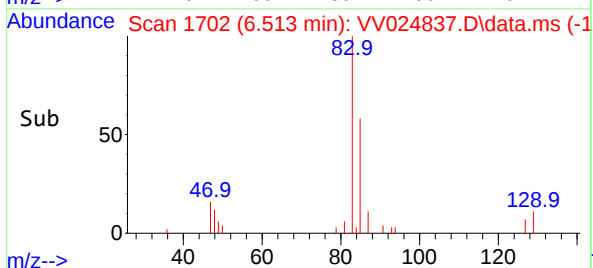
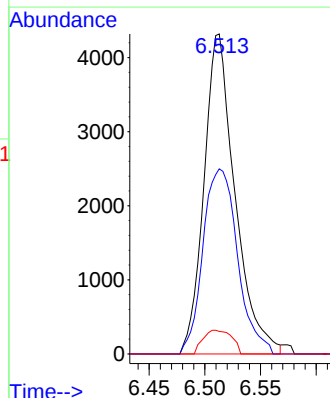
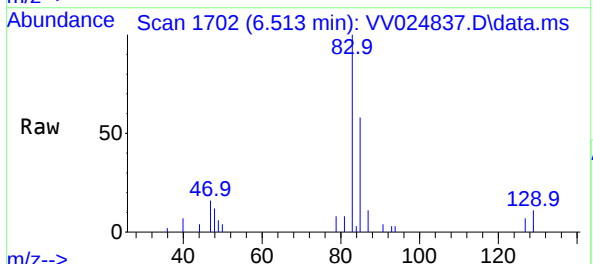
Manual Integrations
APPROVED

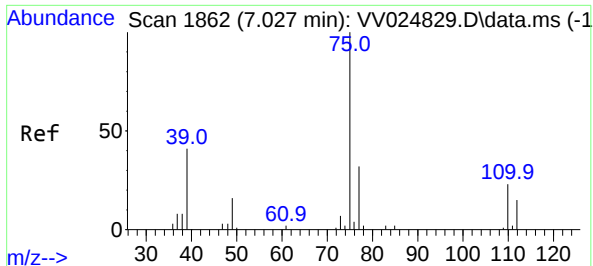
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#38
Bromodichloromethane
Concen: 2.308 ug/L
RT: 6.513 min Scan# 1702
Delta R.T. 0.007 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion: 83 Resp: 8380
Ion Ratio Lower Upper
83 100
85 57.9 44.5 82.7
127 7.1 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 2.268 ug/L

RT: 7.031 min Scan# 1863

Delta R.T. 0.007 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Instrument :

MSVOA_V

ClientSampleId :

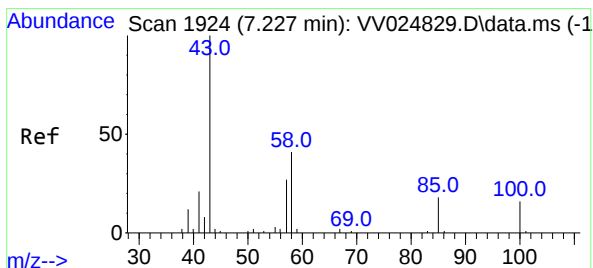
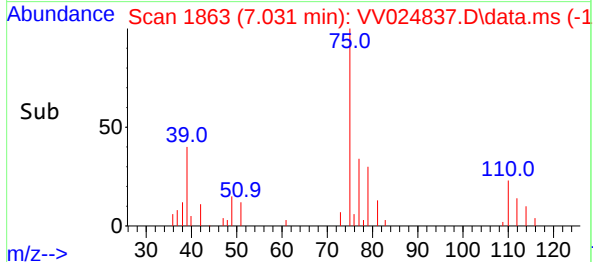
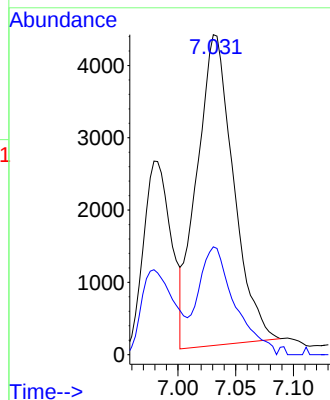
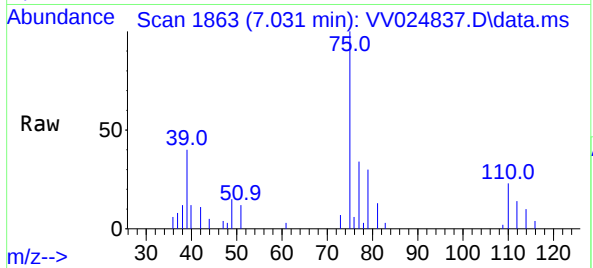
MDL-WATER-QT1-2022-01

Tgt Ion: 75 Resp: 9458
 Ion Ratio Lower Upper
 75 100
 77 33.7 22.9 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/01/2022
 Supervised By :Mahesh Dadoda 03/01/2022



#40

4-Methyl-2-pentanone

Concen: 4.454 ug/L

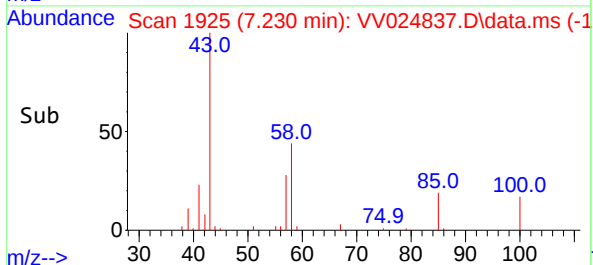
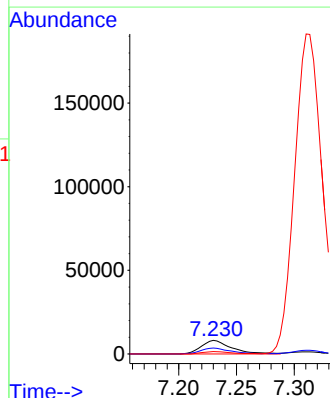
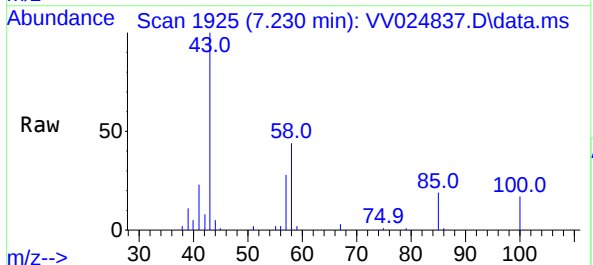
RT: 7.230 min Scan# 1925

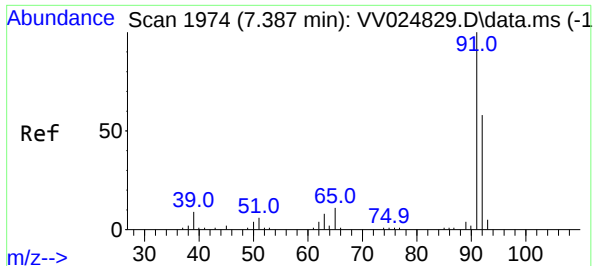
Delta R.T. 0.007 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Tgt Ion: 43 Resp: 14712
 Ion Ratio Lower Upper
 43 100
 58 43.8 34.8 52.2
 100 17.3 14.2 21.2





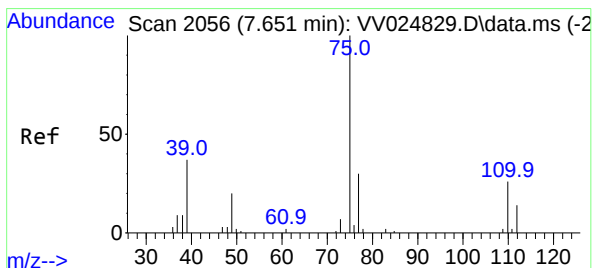
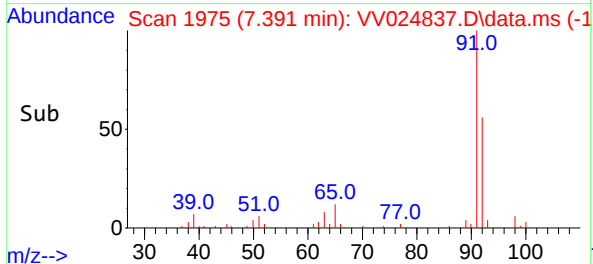
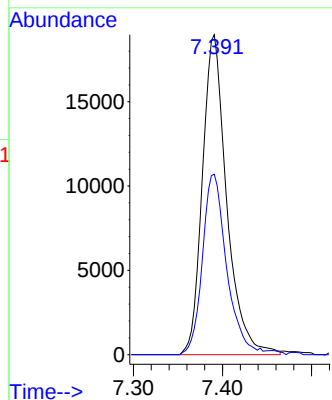
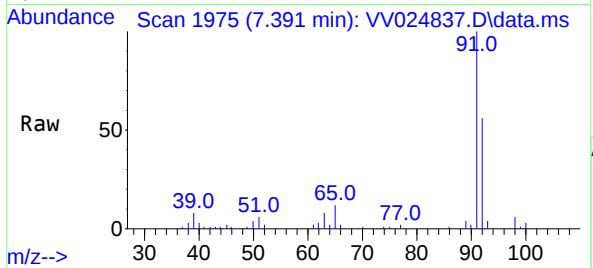
#42
Toluene
Concen: 3.120 ug/L
RT: 7.391 min Scan# 1974
Delta R.T. 0.007 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion: 91 Resp: 3594
Ion Ratio Lower Upper
91 100
92 56.4 40.8 75.8

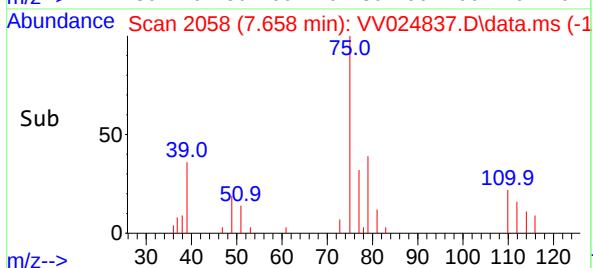
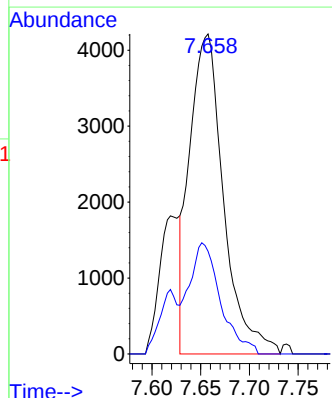
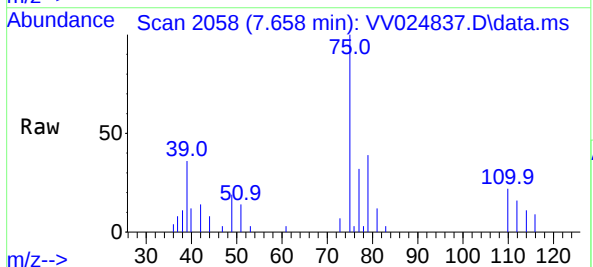
Manual Integrations
APPROVED

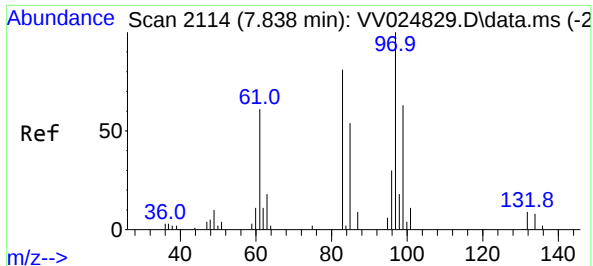
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#44
trans-1,3-Dichloropropene
Concen: 2.660 ug/L
RT: 7.658 min Scan# 2058
Delta R.T. 0.010 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

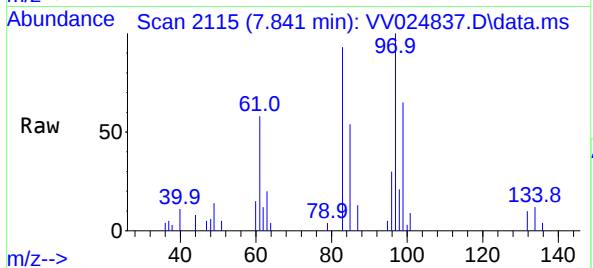
Tgt Ion: 75 Resp: 10190
Ion Ratio Lower Upper
75 100
77 32.1 22.5 41.9





#45
1,1,2-Trichloroethane
Concen: 2.340 ug/L
RT: 7.841 min Scan# 2114
Delta R.T. 0.007 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

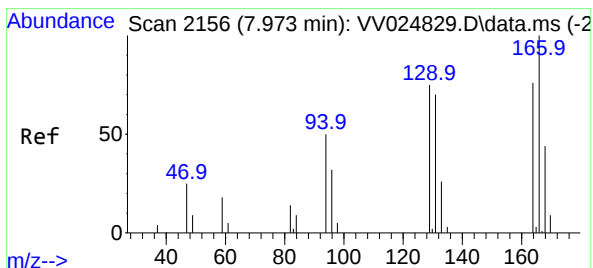
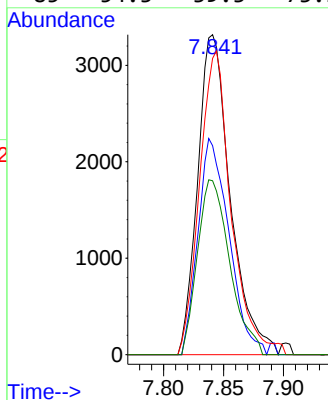
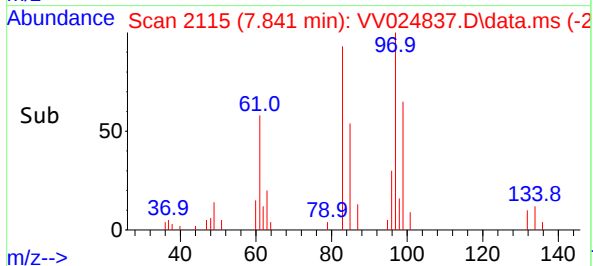
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01



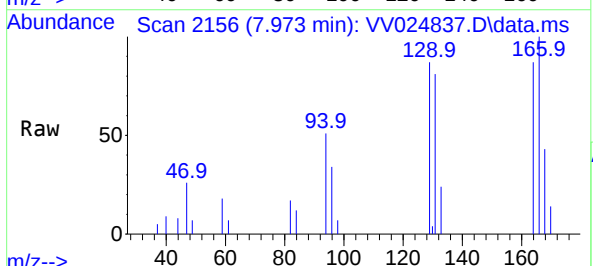
Tgt Ion: 97 Resp: 6298
Ion Ratio Lower Upper
97 100
99 65.3 43.9 81.5
83 92.6 61.7 114.5
85 54.3 39.3 73.1

Manual Integrations
APPROVED

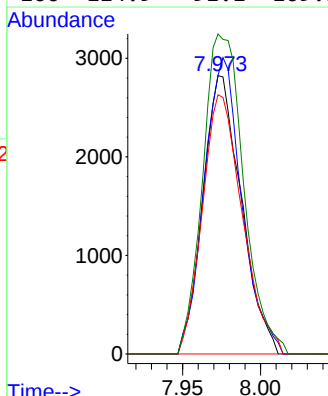
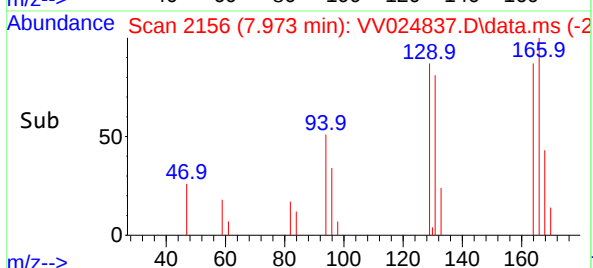
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022

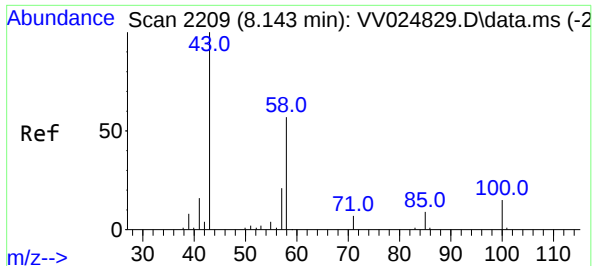


#46
Tetrachloroethene
Concen: 2.477 ug/L
RT: 7.973 min Scan# 2156
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



Tgt Ion:164 Resp: 4841
Ion Ratio Lower Upper
164 100
129 100.2 74.1 137.7
131 93.1 70.1 130.1
166 114.9 91.1 169.1





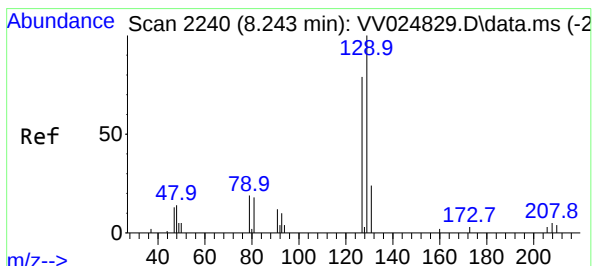
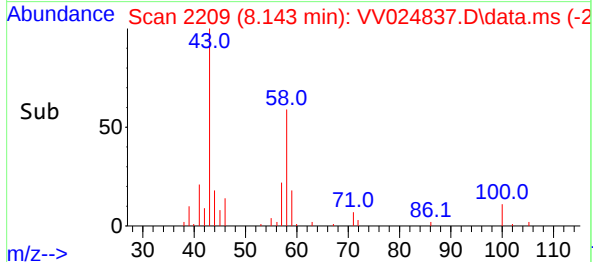
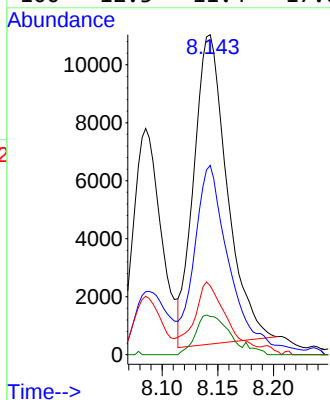
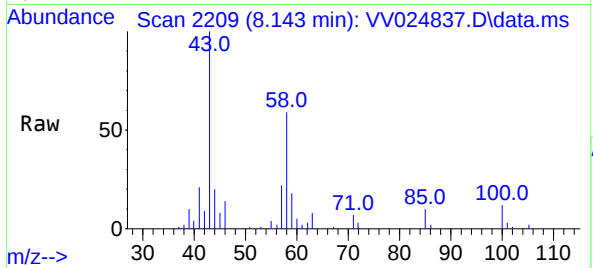
#48
2-Hexanone
Concen: 8.534 ug/L
RT: 8.143 min Scan# 2209
Delta R.T. 0.007 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT1-2022-01

Tgt Ion: 43 Resp: 22184
Ion Ratio Lower Upper
43 100
58 58.6 48.6 72.8
57 23.7 16.5 24.7
100 12.3 11.4 17.0

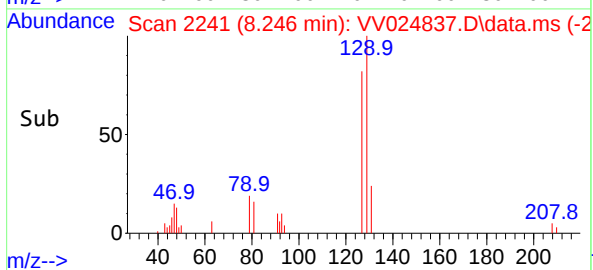
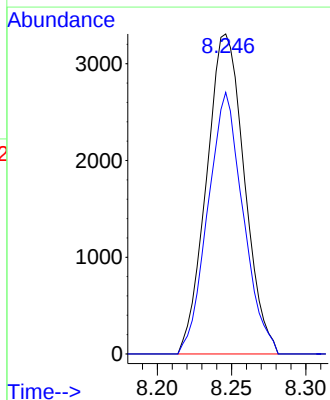
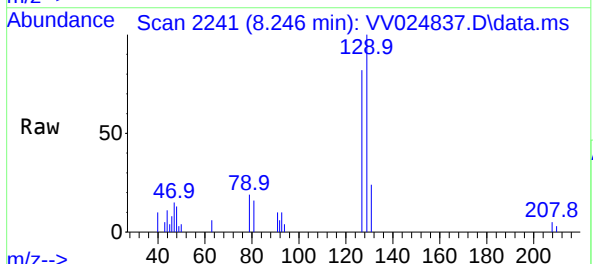
Manual Integrations
APPROVED

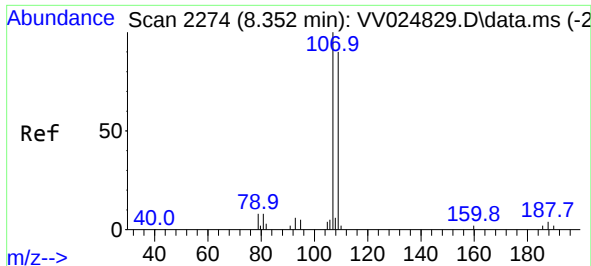
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#49
Dibromochloromethane
Concen: 2.258 ug/L
RT: 8.246 min Scan# 2241
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

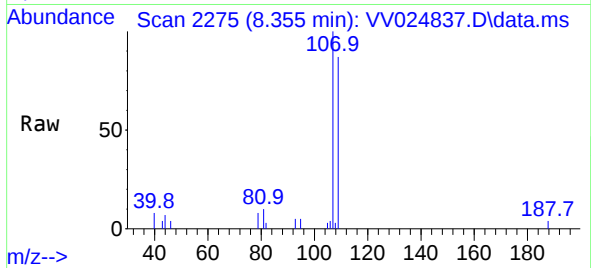
Tgt Ion:129 Resp: 5873
Ion Ratio Lower Upper
129 100
127 81.8 54.2 100.6





#50
1,2-Dibromoethane
Concen: 2.443 ug/L
RT: 8.355 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

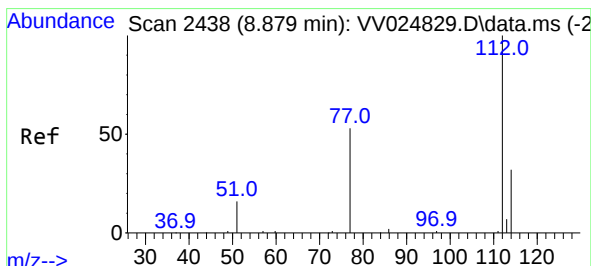
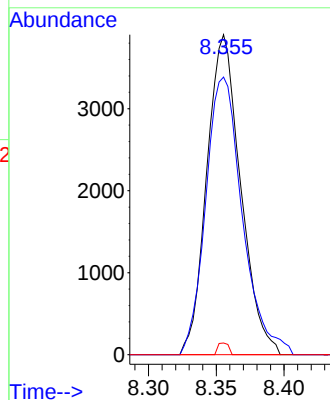
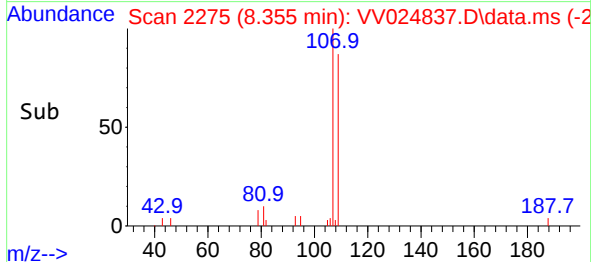
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01



Tgt Ion:107 Resp: 678
Ion Ratio Lower Upper
107 100
109 86.8 65.6 121.8
188 3.6 2.4 3.6

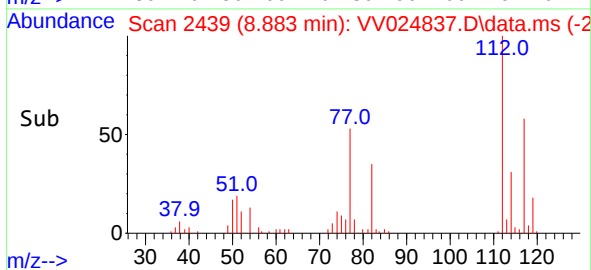
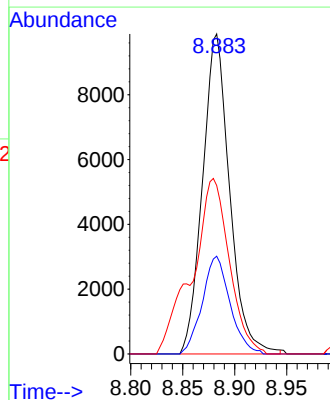
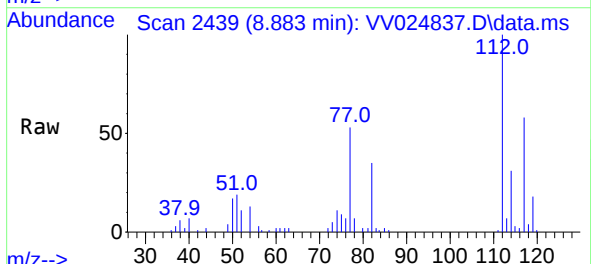
Manual Integrations
APPROVED

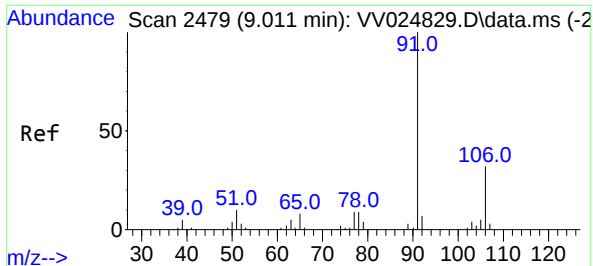
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#51
Chlorobenzene
Concen: 2.464 ug/L
RT: 8.883 min Scan# 2439
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion:112 Resp: 17909
Ion Ratio Lower Upper
112 100
114 30.6 22.3 41.5
77 52.6 46.7 70.1





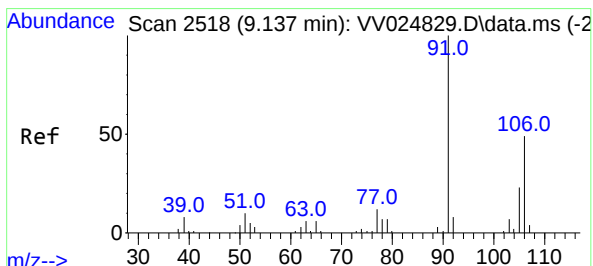
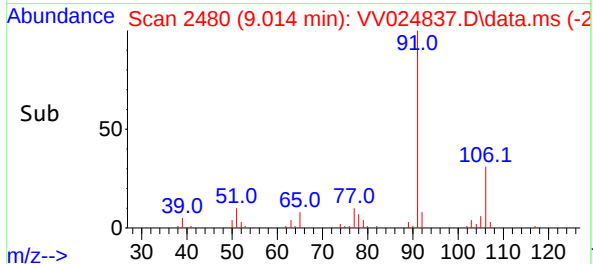
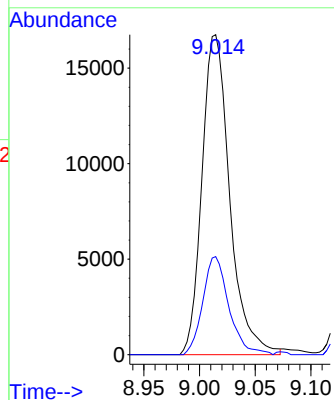
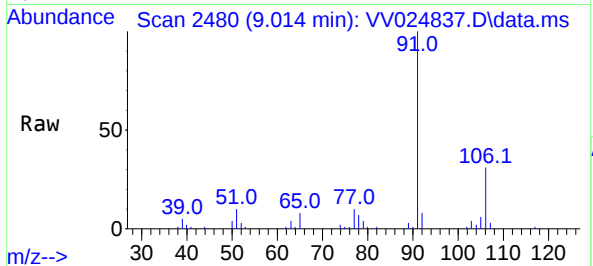
#52
Ethylbenzene
Concen: 2.388 ug/L
RT: 9.014 min Scan# 2479
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion: 91 Resp: 2901
Ion Ratio Lower Upper
91 100
106 30.6 21.6 40.2

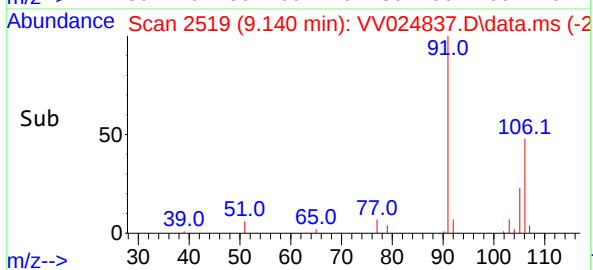
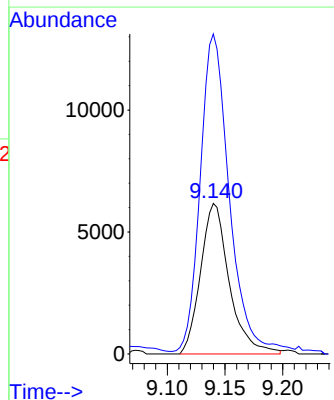
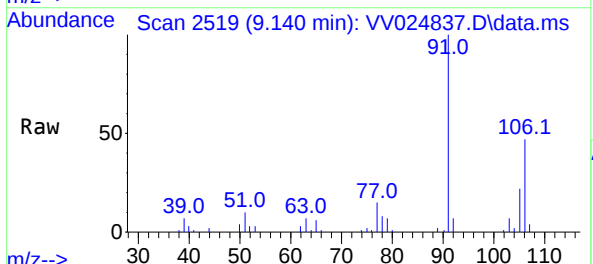
Manual Integrations
APPROVED

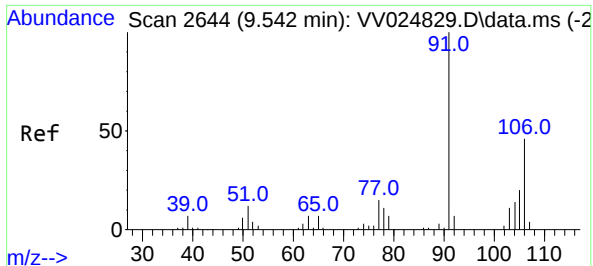
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#53
m,p-Xylene
Concen: 2.288 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion:106 Resp: 10684
Ion Ratio Lower Upper
106 100
91 212.5 142.2 264.2





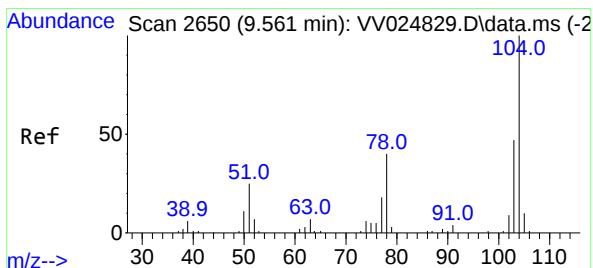
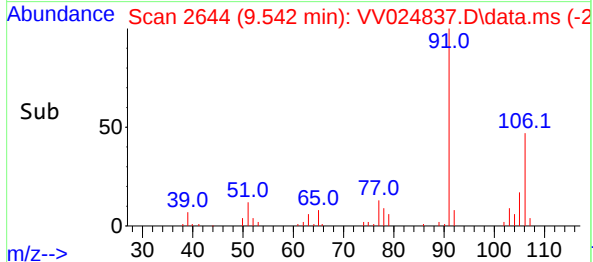
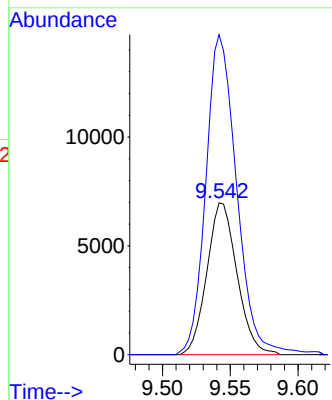
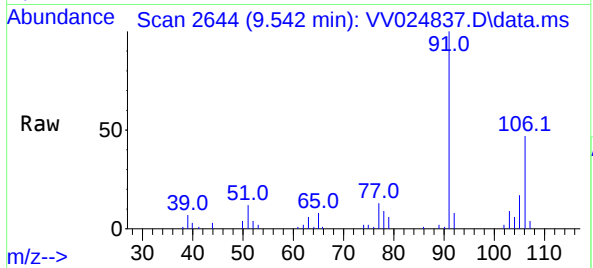
#54
o-Xylene
Concen: 2.397 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion:106 Resp: 1081
Ion Ratio Lower Upper
106 100
91 210.6 151.6 281.6

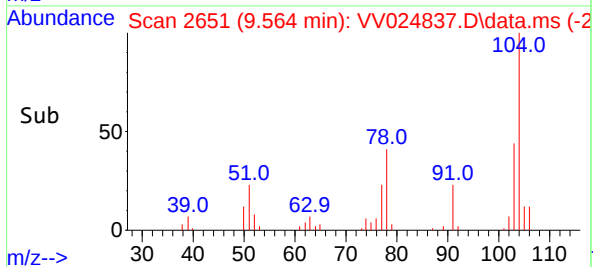
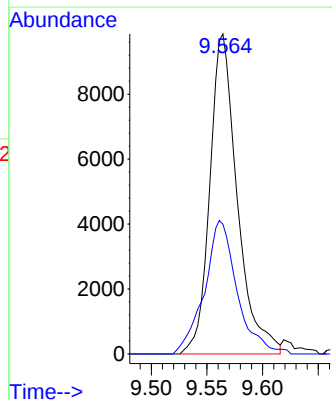
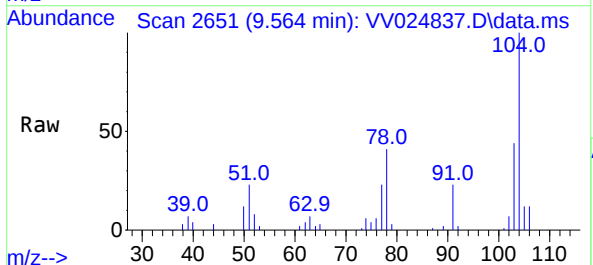
Manual Integrations
APPROVED

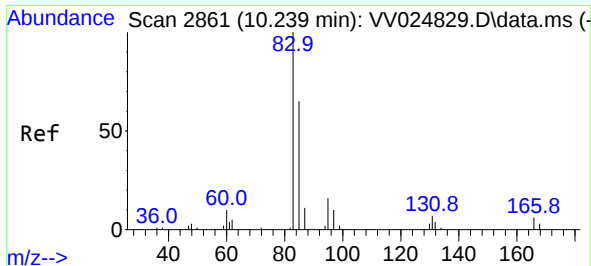
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#55
Styrene
Concen: 2.206 ug/L
RT: 9.564 min Scan# 2651
Delta R.T. 0.007 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion:104 Resp: 16888
Ion Ratio Lower Upper
104 100
78 40.5 30.9 57.3





#57

1,1,2,2-Tetrachloroethane

Concen: 2.840 ug/L

RT: 10.239 min Scan# 2861

Delta R.T. 0.000 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT1-2022-01

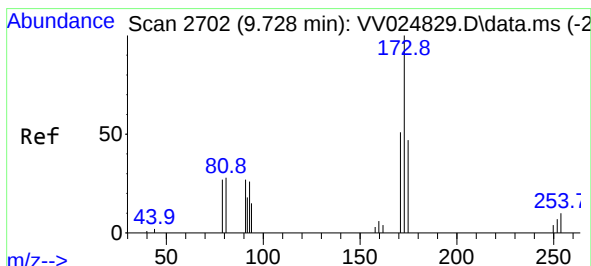
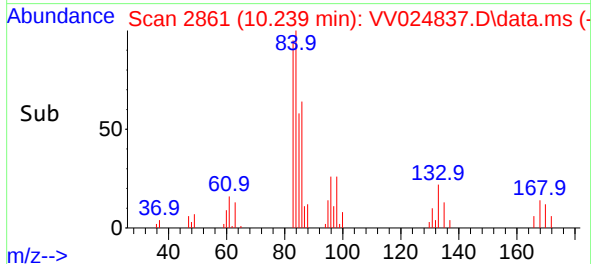
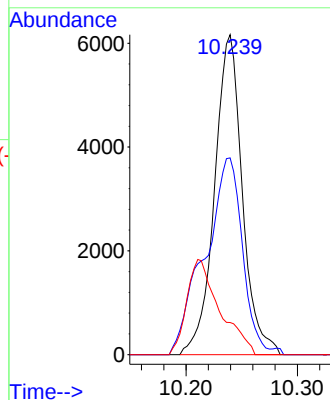
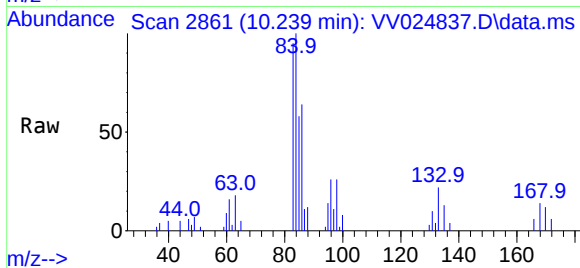
Tgt Ion:	83	Resp:	10694
Ion Ratio	Lower	Upper	
83	100		
85	61.5	44.2	82.2
131	10.1	7.0	10.4

Manual Integrations

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Reviewed By :John Carlone 03/01/2022

Supervised By :Mahesh Dadoda 03/01/2022



#59

Bromoform

Concen: 2.115 ug/L

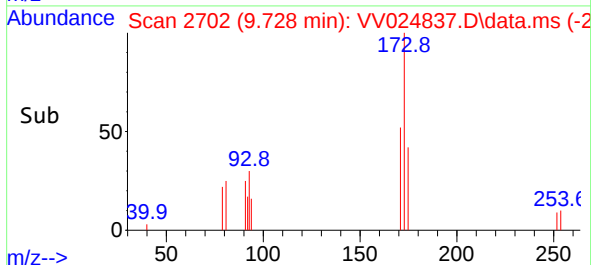
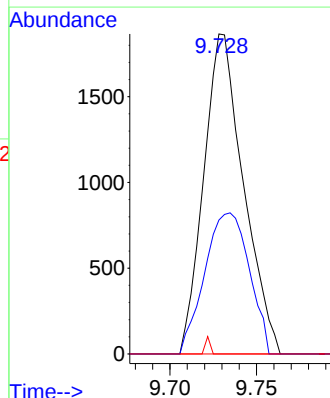
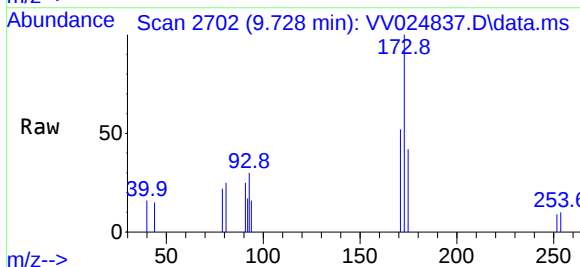
RT: 9.728 min Scan# 2702

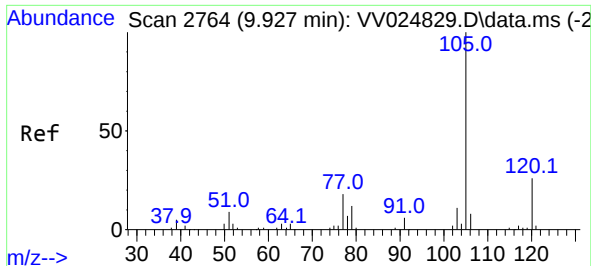
Delta R.T. 0.000 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Tgt Ion:	173	Resp:	2979
Ion Ratio	Lower	Upper	
173	100		
175	49.3	37.9	56.9
254	0.0	6.2	9.4





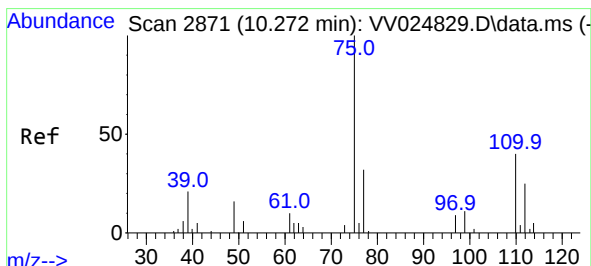
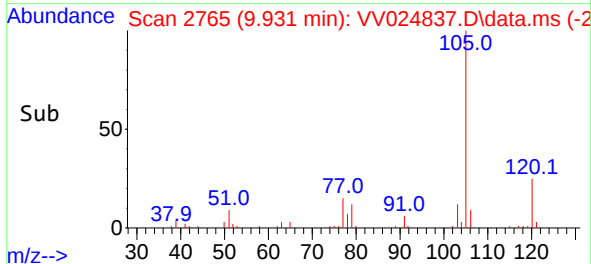
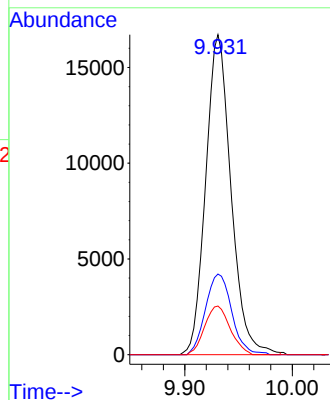
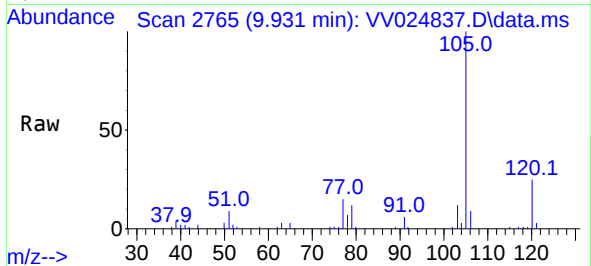
#60
Isopropylbenzene
Concen: 2.432 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion:105 Resp: 2731
Ion Ratio Lower Upper
105 100
120 26.2 20.6 31.0
77 15.3 12.3 18.5

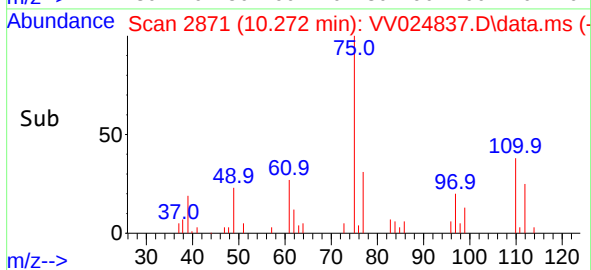
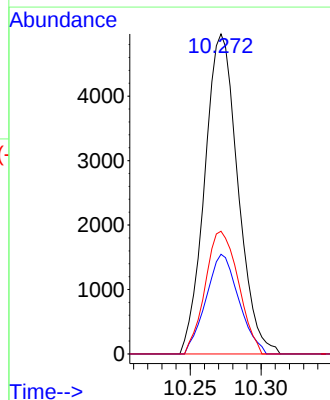
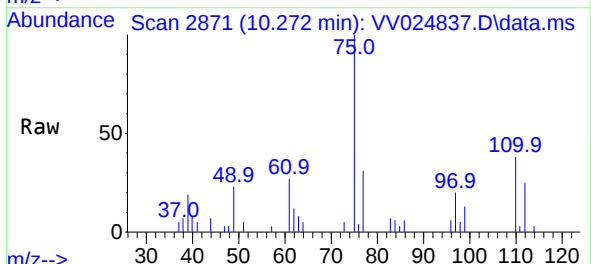
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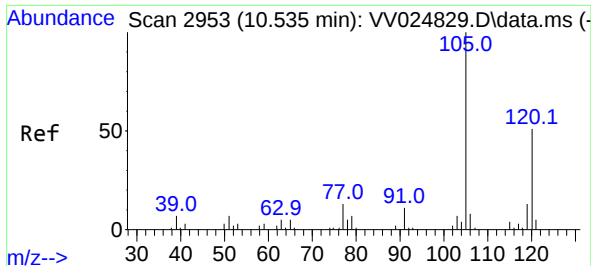
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#61
1,2,3-Trichloropropane
Concen: 2.613 ug/L
RT: 10.272 min Scan# 2871
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion: 75 Resp: 8086
Ion Ratio Lower Upper
75 100
77 30.8 25.4 38.0
110 38.4 31.4 47.2





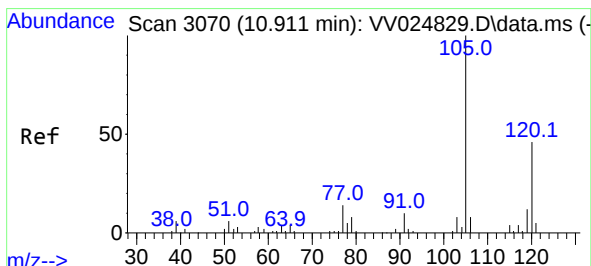
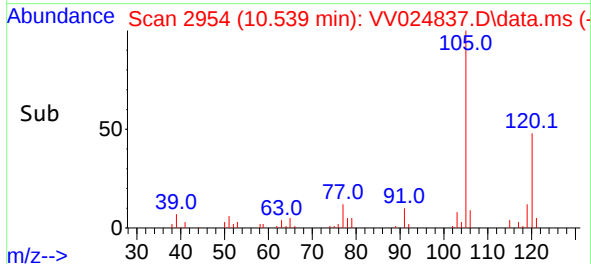
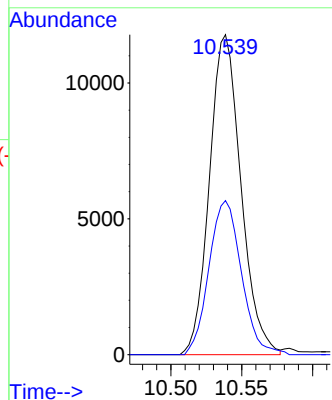
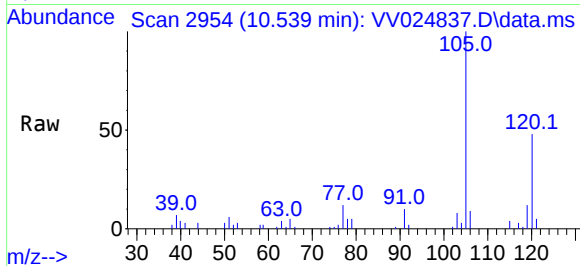
#62
1,3,5-Trimethylbenzene
Concen: 2.407 ug/L
RT: 10.539 min Scan# 2953
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion:105 Resp: 1823
Ion Ratio Lower Upper
105 100
120 49.6 38.6 58.0

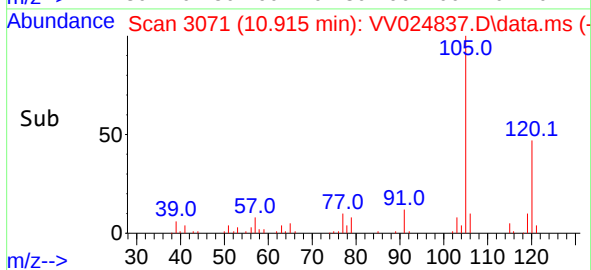
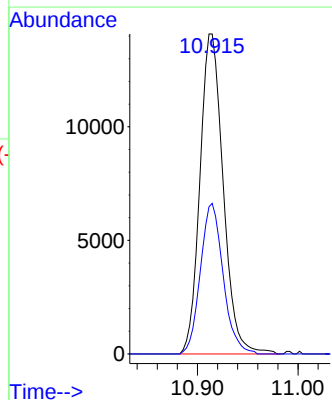
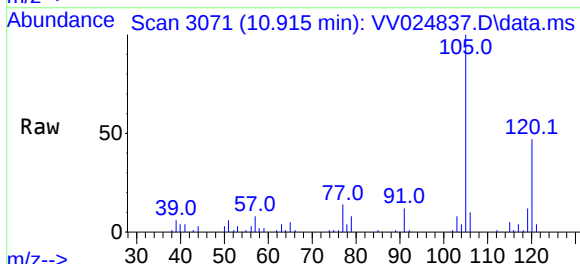
Manual Integrations
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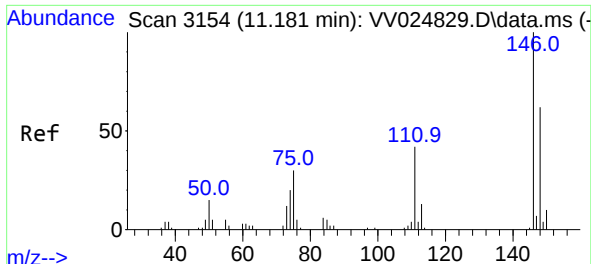
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#63
1,2,4-Trimethylbenzene
Concen: 2.440 ug/L
RT: 10.915 min Scan# 3071
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion:105 Resp: 22659
Ion Ratio Lower Upper
105 100
120 46.0 36.1 54.1





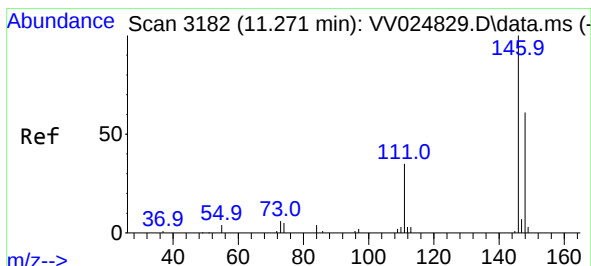
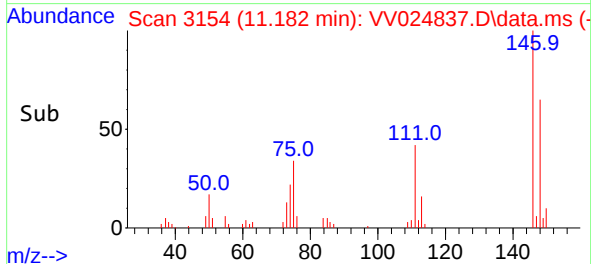
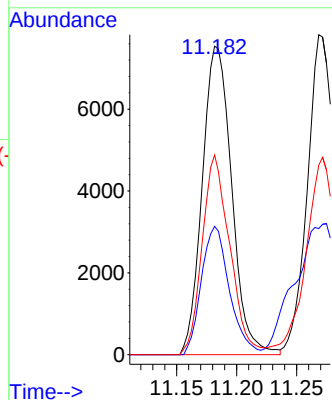
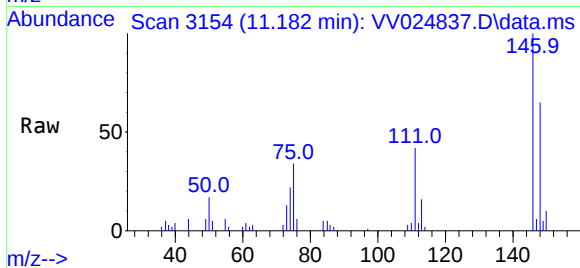
#64
1,3-Dichlorobenzene
Concen: 2.617 ug/L
RT: 11.182 min Scan# 3154
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion:146 Resp: 1289
Ion Ratio Lower Upper
146 100
111 41.6 29.7 55.1
148 64.7 43.9 81.5

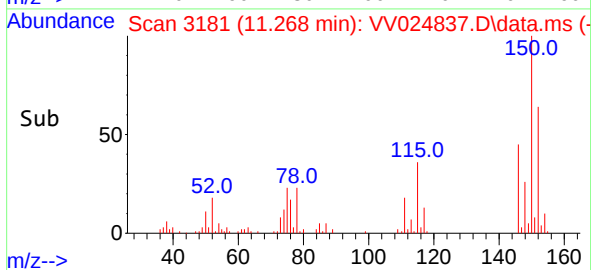
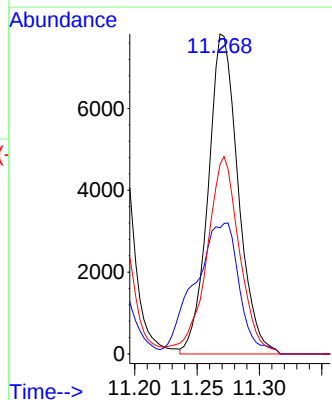
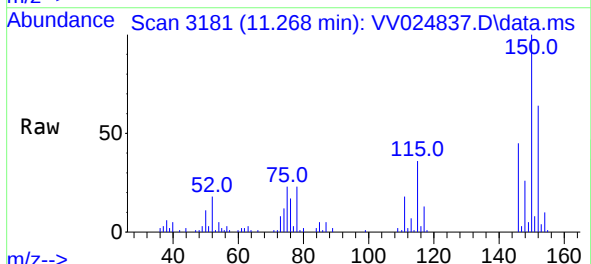
Manual Integrations
APPROVED

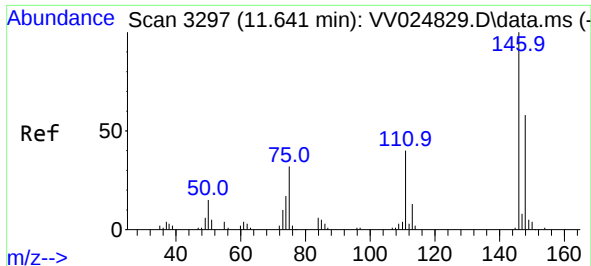
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#65
1,4-Dichlorobenzene
Concen: 2.596 ug/L
RT: 11.268 min Scan# 3181
Delta R.T. 0.000 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion:146 Resp: 13100
Ion Ratio Lower Upper
146 100
111 39.4 28.6 53.0
148 59.2 43.7 81.1





#67

1,2-Dichlorobenzene

Concen: 2.649 ug/L

RT: 11.638 min Scan# 3297

Delta R.T. -0.003 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT1-2022-01

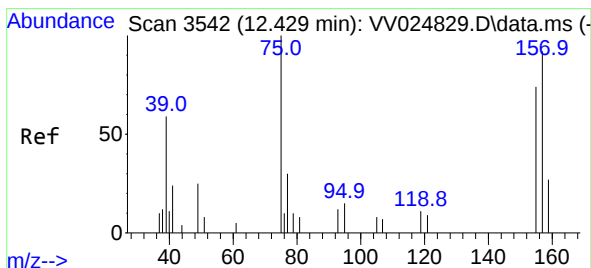
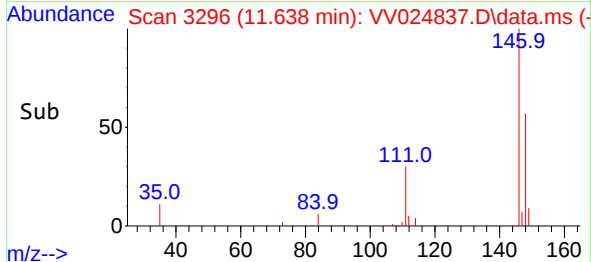
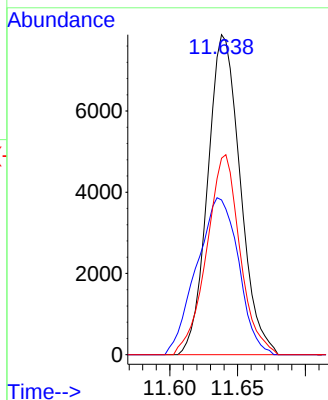
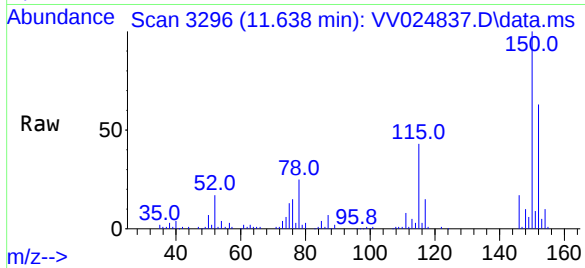
Tgt Ion:146	Resp:	1313
Ion Ratio	Lower	Upper
146	100	
111	48.3	34.9 52.3
148	61.4	51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/01/2022

Supervised By :Mahesh Dadoda 03/01/2022



#68

1,2-Dibromo-3-chloropropane

Concen: 2.169 ug/L

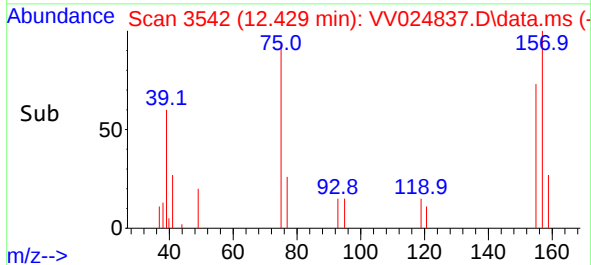
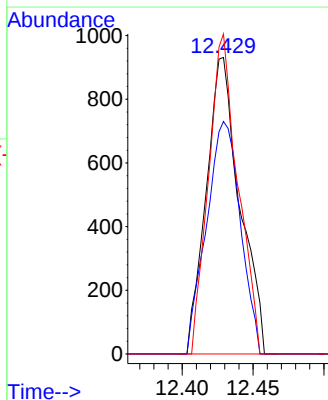
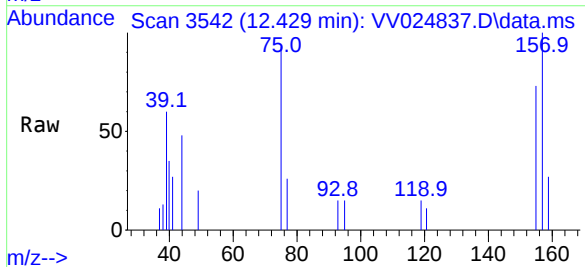
RT: 12.429 min Scan# 3542

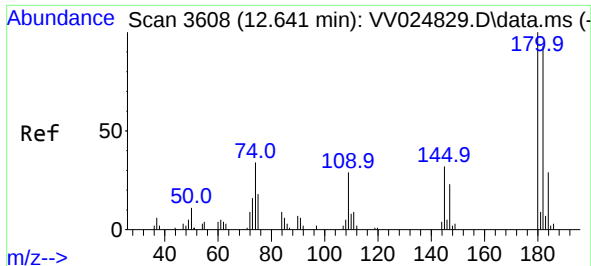
Delta R.T. 0.007 min

Lab File: VV024837.D

Acq: 28 Feb 2022 16:19

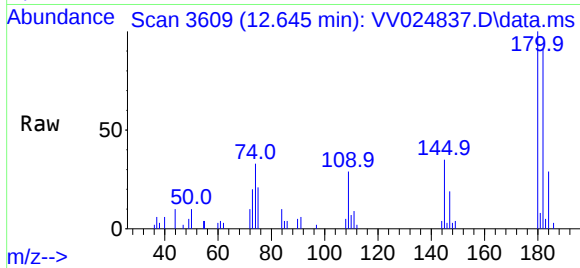
Tgt Ion: 75	Resp:	1532
Ion Ratio	Lower	Upper
75	100	
155	78.4	63.8 95.8
157	107.9	79.3 118.9





#69
1,3,5-Trichlorobenzene
Concen: 2.579 ug/L
RT: 12.645 min Scan# 3608
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

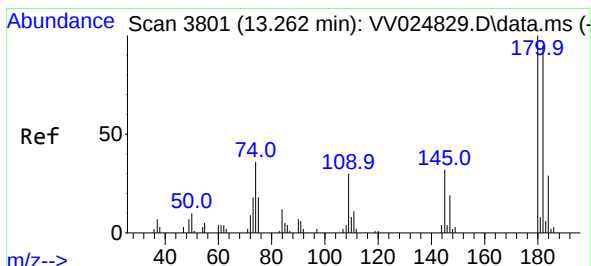
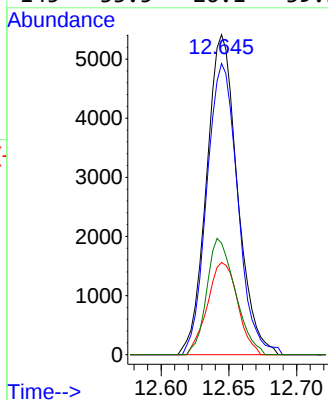
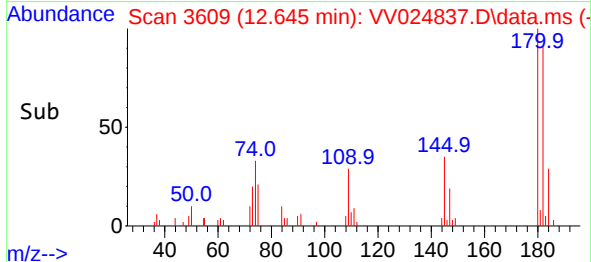
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01



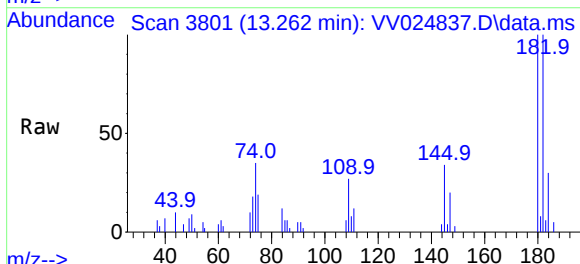
Tgt Ion:180 Resp: 858
Ion Ratio Lower Upper
180 100
182 90.8 75.1 112.7
184 28.1 23.9 35.9
145 33.5 26.1 39.1

Manual Integrations
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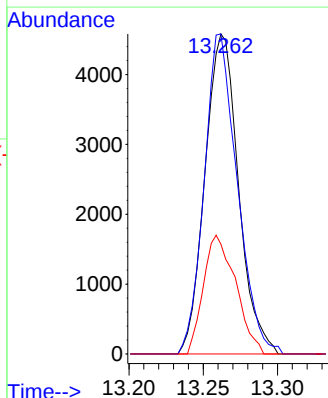
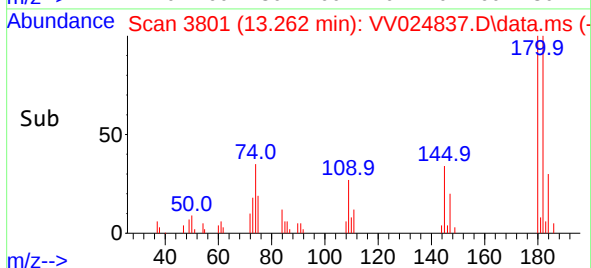
Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022

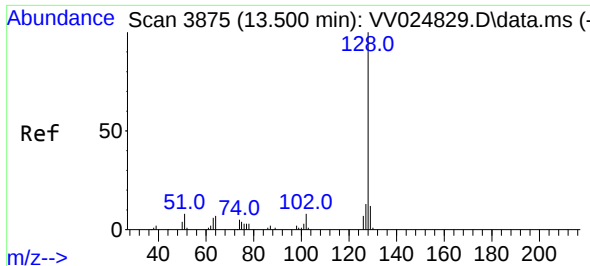


#70
1,2,4-trichlorobenzene
Concen: 2.481 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19



Tgt Ion:180 Resp: 7191
Ion Ratio Lower Upper
180 100
182 98.6 76.0 114.0
145 35.6 27.6 41.4





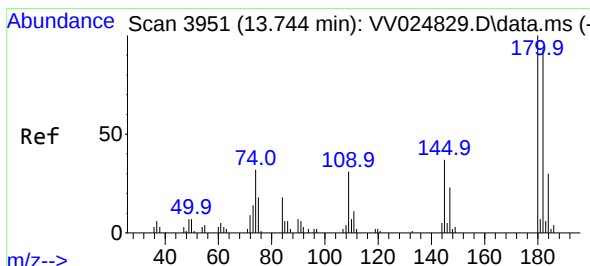
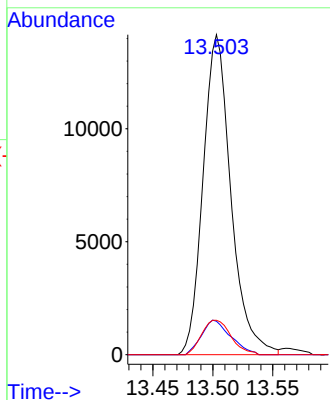
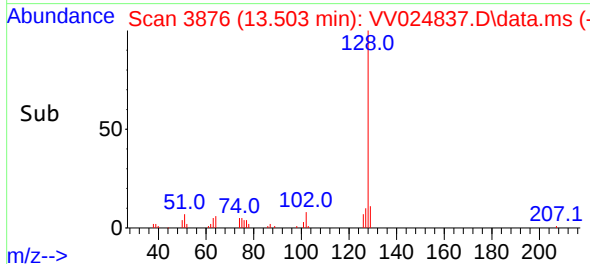
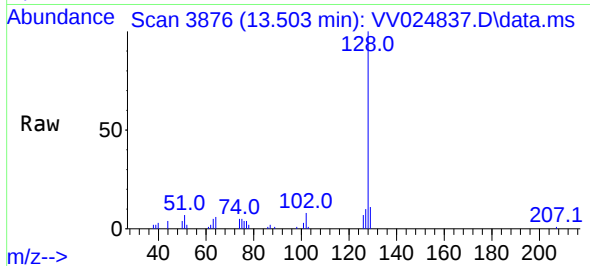
#71
Naphthalene
Concen: 2.437 ug/L
RT: 13.503 min Scan# 3875
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT1-2022-01

Tgt Ion:128	Resp:	2288
Ion Ratio	Lower	Upper
128	100	
127	11.3	10.2 15.4
129	11.4	8.6 13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/01/2022
Supervised By :Mahesh Dadoda 03/01/2022



#72
1,2,3-Trichlorobenzene
Concen: 2.555 ug/L
RT: 13.744 min Scan# 3951
Delta R.T. 0.003 min
Lab File: VV024837.D
Acq: 28 Feb 2022 16:19

Tgt Ion:180	Resp:	7302
Ion Ratio	Lower	Upper
180	100	
182	95.7	75.9 113.9
145	35.2	28.7 43.1

