

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041723\
 Data File : VW030587.D
 Acq On : 17 Apr 2023 14:36
 Operator : SY/MD
 Sample : 02215-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT2-2023-03

Quant Time: Apr 18 03:59:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM041723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 18 02:45:56 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/18/2023
 Supervised By : Mahesh Dadoda 04/18/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	261498	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	253124	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	127762	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	87646	45.721	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	91.440%		
7) Chloroethane-d5	1.539	69	70449	43.855	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.700%		
11) 1,1-Dichloroethene-d2	2.066	65	40896	44.985	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	89.980%		
21) 2-Butanone-d5	3.805	46	99345	94.352	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	94.350%		
24) Chloroform-d	4.259	84	150477	43.315	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.620%		
26) 1,2-Dichloroethane-d4	4.953	65	103583	46.377	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	92.760%		
32) Benzene-d6	4.969	84	286973	47.952	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.900%		
36) 1,2-Dichloropropane-d6	5.998	67	90215	48.530	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	97.060%		
41) Toluene-d8	7.252	98	254288	45.256	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	90.520%		
43) trans-1,3-Dichloroprop...	7.561	79	43699	46.640	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	93.280%		
47) 2-Hexanone-d5	8.034	63	64297	87.799	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	87.800%		
56) 1,1,2,2-Tetrachloroeth...	10.162	84	116986	43.369	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	86.740%		
66) 1,2-Dichlorobenzene-d4	11.570	152	100935	49.704	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.400%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	4644	2.066	ug/L	100
3) Chloromethane	1.217	50	8141	2.760	ug/L	95
5) Vinyl chloride	1.288	62	5415	2.277	ug/L #	78
6) Bromomethane	1.494	94	2747	2.914	ug/L	97
8) Chloroethane	1.555	64	3688	2.261	ug/L	99
9) Trichlorofluoromethane	1.719	101	7716	2.002	ug/L	90
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	5511	2.721	ug/L #	82
12) 1,1-Dichloroethene	2.076	96	5417m	2.958	ug/L	
13) Acetone	2.133	43	6944m	4.262	ug/L	
14) Carbon disulfide	2.249	76	11795	2.281	ug/L	97
15) Methyl Acetate	2.387	43	5252	2.416	ug/L	96
16) Methylene chloride	2.455	84	7361	3.513	ug/L	95
17) trans-1,2-Dichloroethene	2.706	96	3843	2.079	ug/L	97
18) Methyl tert-butyl Ether	2.712	73	11124	1.879	ug/L #	90
19) 1,1-Dichloroethane	3.121	63	8211	2.179	ug/L	95
20) cis-1,2-Dichloroethene	3.831	96	4741m	2.358	ug/L	
22) 2-Butanone	3.912	43	7524m	4.469	ug/L	
23) Bromochloromethane	4.166	128	2267	2.019	ug/L #	86
25) Chloroform	4.288	83	8204	2.103	ug/L	90

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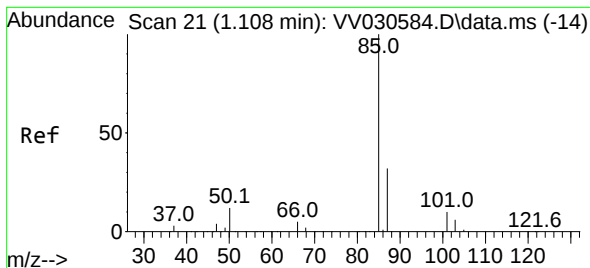
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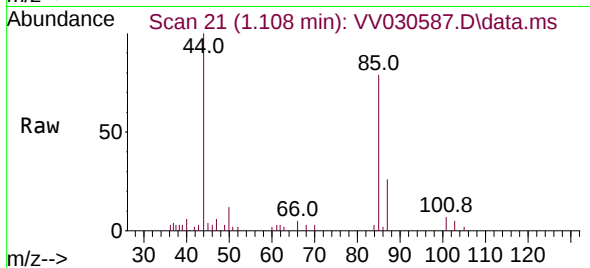
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.066	62	8002m	2.423	ug/L	
29) Cyclohexane	4.593	56	6640	2.186	ug/L	85
30) 1,1,1-Trichloroethane	4.532	97	7630	2.145	ug/L #	90
31) Carbon tetrachloride	4.748	117	6441m	2.025	ug/L	
33) Benzene	5.024	78	17495m	2.276	ug/L	
34) Trichloroethene	5.847	95	4752	2.377	ug/L	92
35) Methylcyclohexane	6.063	83	6881	2.196	ug/L	94
37) 1,2-Dichloropropane	6.108	63	4915	2.376	ug/L	99
38) Bromodichloromethane	6.448	83	6144	2.114	ug/L	99
39) cis-1,3-Dichloropropene	6.969	75	6967	2.244	ug/L	98
40) 4-Methyl-2-pentanone	7.175	43	10234	3.541	ug/L	96
42) Toluene	7.329	91	16657	2.023	ug/L	99
44) trans-1,3-Dichloropropene	7.590	75	7236m	2.372	ug/L	
45) 1,1,2-Trichloroethane	7.780	97	4448	2.144	ug/L	98
46) Tetrachloroethene	7.915	164	3924	2.242	ug/L	96
48) 2-Hexanone	8.095	43	14903m	6.250	ug/L	
49) Dibromochloromethane	8.185	129	4742	2.072	ug/L	85
50) 1,2-Dibromoethane	8.294	107	4366	2.031	ug/L #	96
51) Chlorobenzene	8.825	112	11414	2.093	ug/L	96
52) Ethylbenzene	8.956	91	17555	1.926	ug/L	99
53) m,p-Xylene	9.085	106	6607	1.919	ug/L	99
54) o-Xylene	9.487	106	5902	1.752	ug/L	95
55) Styrene	9.509	104	9921	1.677	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.188	83	7030	2.064	ug/L	92
59) Bromoform	9.677	173	3880	2.426	ug/L #	94
60) Isopropylbenzene	9.876	105	15618	1.960	ug/L	96
61) 1,2,3-Trichloropropane	10.220	75	5694	2.488	ug/L #	94
62) 1,3,5-Trimethylbenzene	10.484	105	12295	1.874	ug/L	99
63) 1,2,4-Trimethylbenzene	10.863	105	12924	1.973	ug/L	96
64) 1,3-Dichlorobenzene	11.127	146	8668	2.173	ug/L	97
65) 1,4-Dichlorobenzene	11.217	146	9277	2.205	ug/L	90
67) 1,2-Dichlorobenzene	11.586	146	9375	2.330	ug/L	93
68) 1,2-Dibromo-3-chloropr...	12.377	75	1834	2.705	ug/L	97
69) 1,3,5-Trichlorobenzene	12.593	180	6560	2.177	ug/L	98
70) 1,2,4-trichlorobenzene	13.210	180	5553	2.170	ug/L	99
71) Naphthalene	13.451	128	14383	2.055	ug/L #	96
72) 1,2,3-Trichlorobenzene	13.692	180	5410	2.132	ug/L	98

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



#2
 Dichlorodifluoromethane
 Concen: 2.066 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV030587.D
 Acq: 17 Apr 2023 14:36

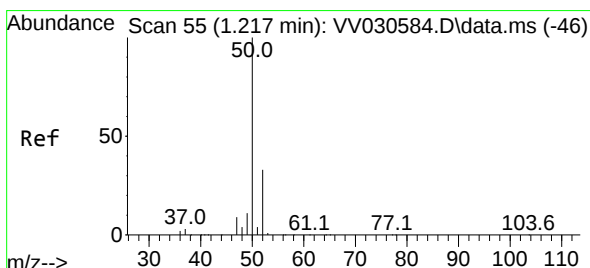
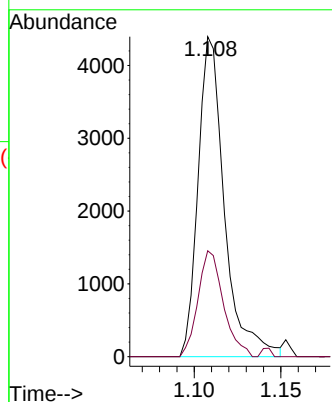
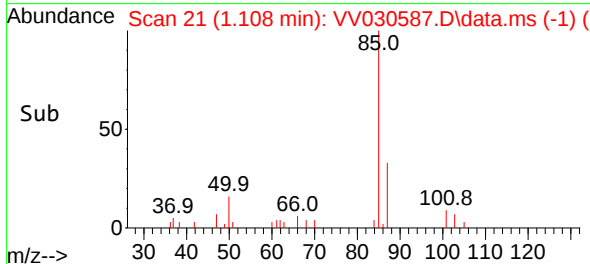
Instrument : MSVOA_V
 ClientSampleId :
 MDL-WATER-QT2-2023-03



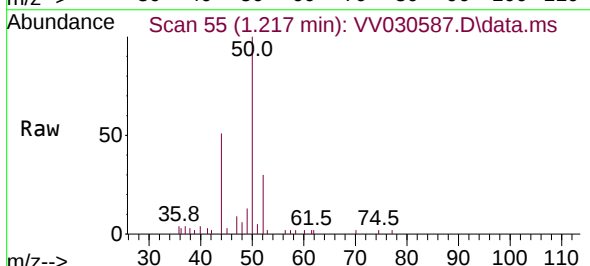
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 Ion Ratio Lower Upper
 85 100
 87 31.8 25.6 38.4

Manual Integrations
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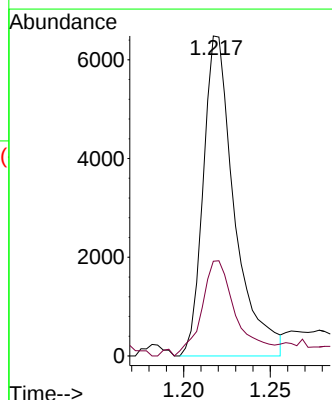
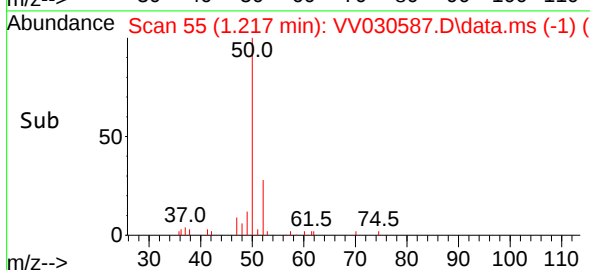
Reviewed By :John Carlone 04/18/2023
 Supervised By :Mahesh Dadoda 04/18/2023

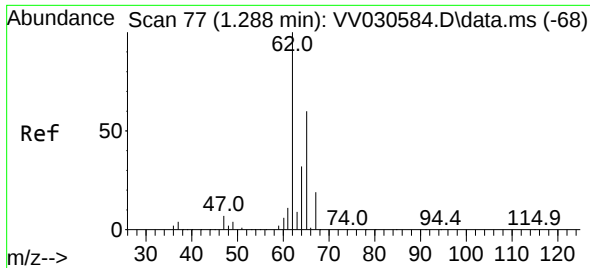


#3
 Chloromethane
 Concen: 2.760 ug/L
 RT: 1.217 min Scan# 55
 Delta R.T. -0.000 min
 Lab File: VV030587.D
 Acq: 17 Apr 2023 14:36



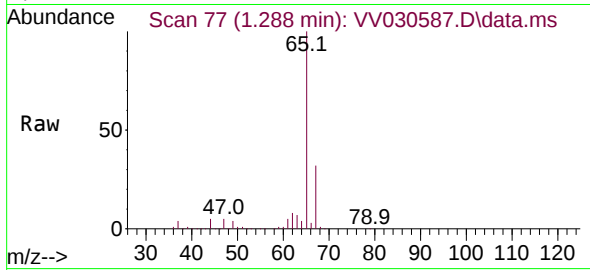
Tgt Ion: 50 Resp: 8141
 Ion Ratio Lower Upper
 50 100
 52 29.6 22.5 41.9





#5
 Vinyl chloride
 Concen: 2.277 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. -0.000 min
 Lab File: VV030587.D
 Acq: 17 Apr 2023 14:36

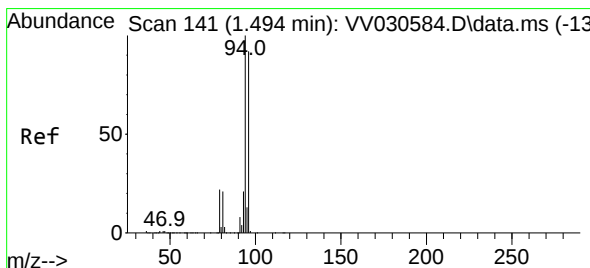
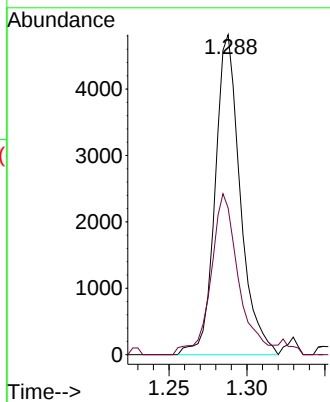
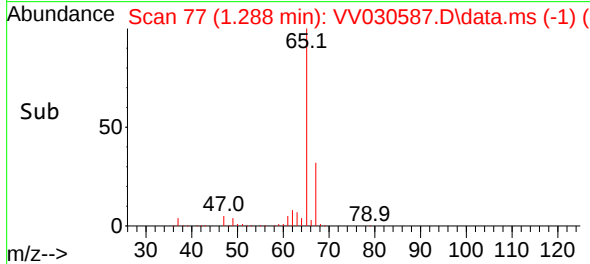
Instrument : MSVOA_V
 ClientSampleId : MDL-WATER-QT2-2023-03



Tgt Ion: 62 Resp: 541
 Ion Ratio Lower Upper
 62 100
 64 45.8 23.4 43.4

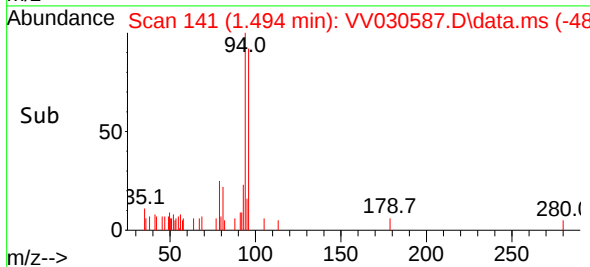
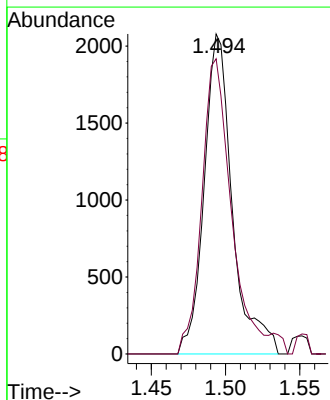
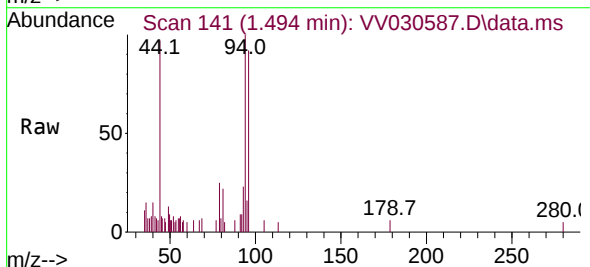
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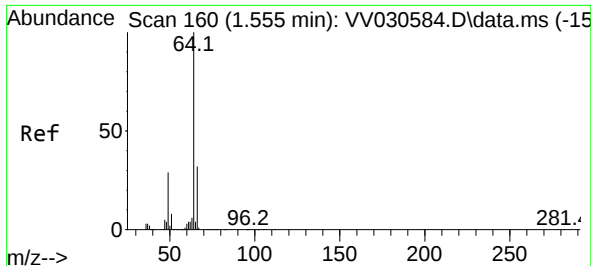
Reviewed By :John Carlone 04/18/2023
 Supervised By :Mahesh Dadoda 04/18/2023



#6
 Bromomethane
 Concen: 2.914 ug/L
 RT: 1.494 min Scan# 141
 Delta R.T. -0.000 min
 Lab File: VV030587.D
 Acq: 17 Apr 2023 14:36

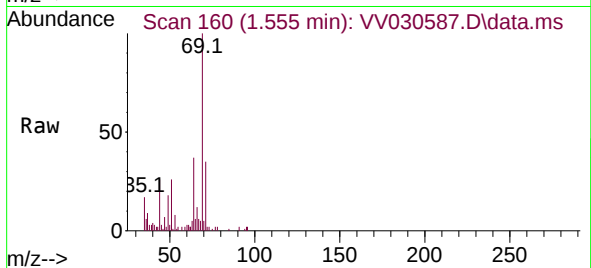
Tgt Ion: 94 Resp: 2747
 Ion Ratio Lower Upper
 94 100
 96 92.3 66.3 123.1





#8
Chloroethane
Concen: 2.261 ug/L
RT: 1.555 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

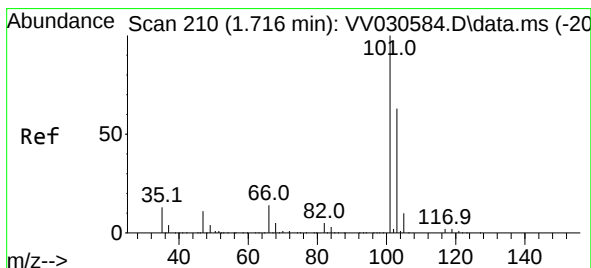
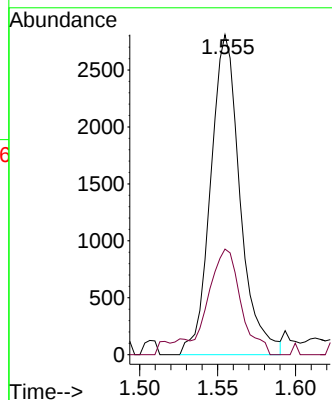
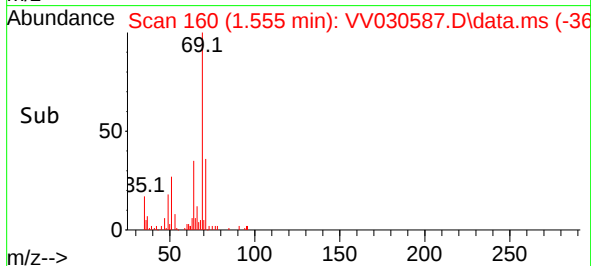
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT2-2023-03



Tgt Ion: 64 Resp: 368
Ion Ratio Lower Upper
64 100
66 33.0 22.7 42.3

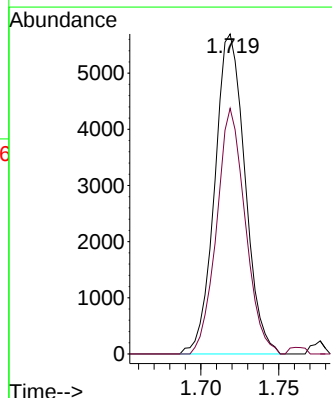
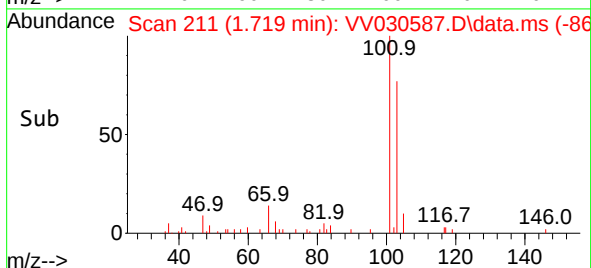
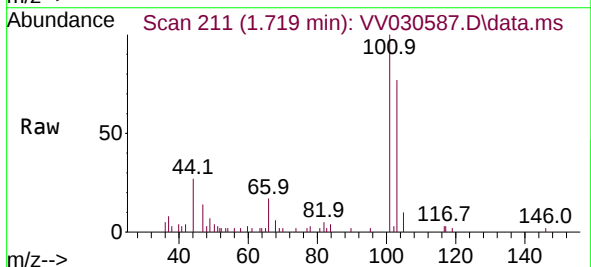
Manual Integrations
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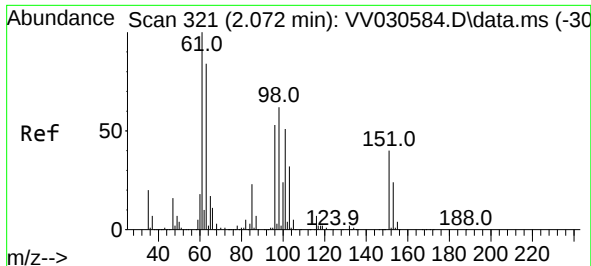
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#9
Trichlorofluoromethane
Concen: 2.002 ug/L
RT: 1.719 min Scan# 211
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion:101 Resp: 7716
Ion Ratio Lower Upper
101 100
103 72.4 51.4 77.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.721 ug/L

RT: 2.072 min Scan# 321

Delta R.T. -0.000 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

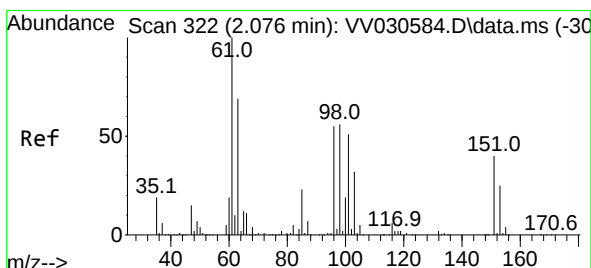
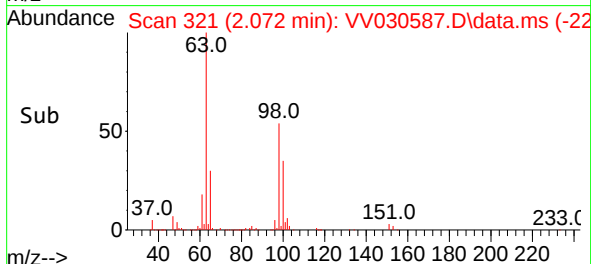
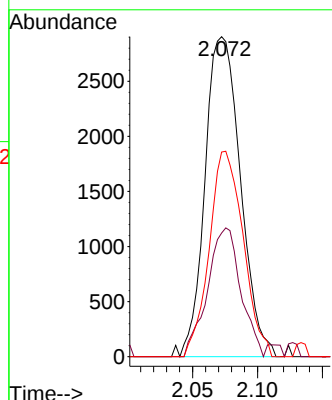
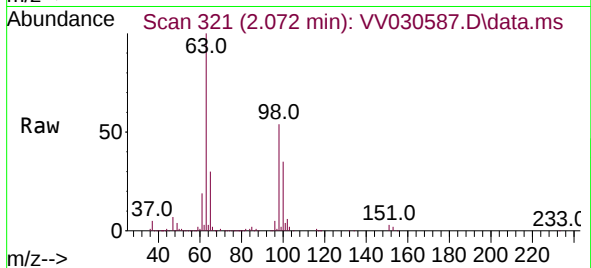
Tgt Ion:	101	Resp:	551
Ion Ratio	Lower	Upper	
101	100		
85	37.7	37.5	56.3
151	61.6	63.5	95.3

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 2.958 ug/L m

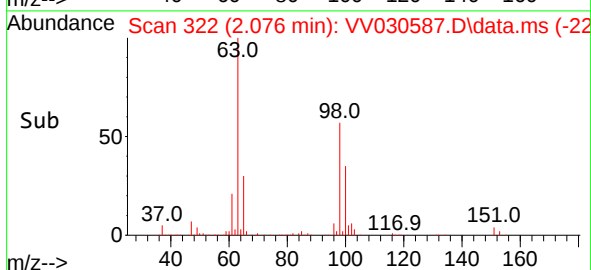
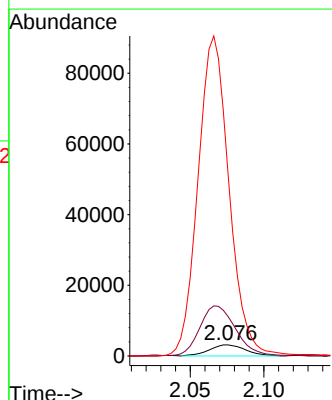
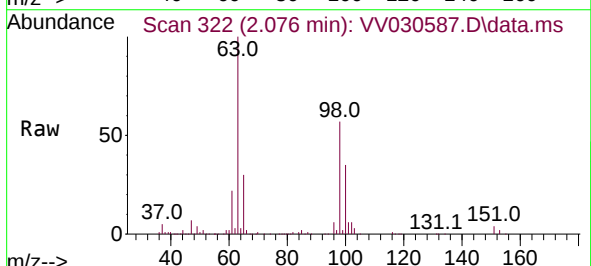
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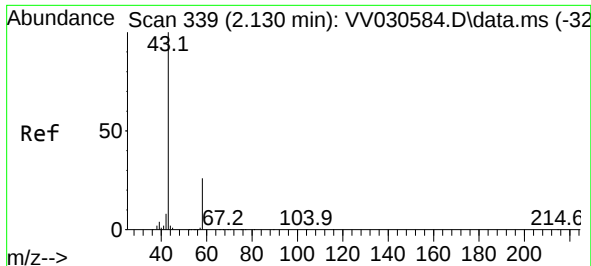
Delta R.T. -0.000 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Tgt Ion:	96	Resp:	5417
Ion Ratio	Lower	Upper	
96	100		
61	355.7	131.9	245.0#
63	1641.7	99.8	185.3#





#13

Acetone

Concen: 4.262 ug/L m

RT: 2.133 min Scan# 34

Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 43 Resp: 694

Ion Ratio Lower Upper

43 100

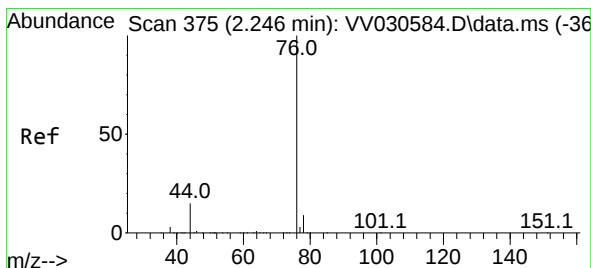
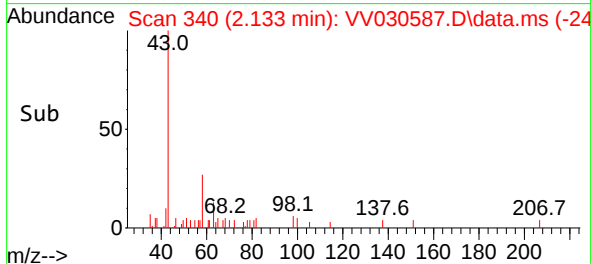
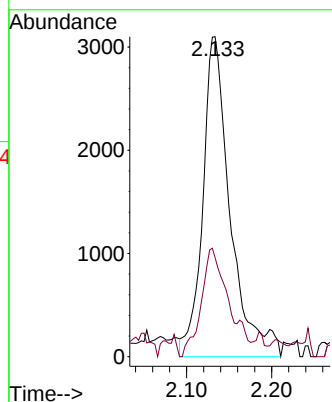
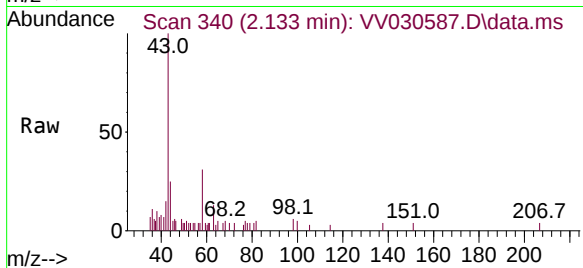
58 30.6 0.0 52.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#14

Carbon disulfide

Concen: 2.281 ug/L

RT: 2.249 min Scan# 376

Delta R.T. 0.003 min

Lab File: VV030587.D

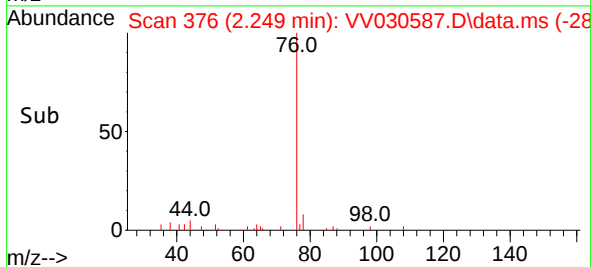
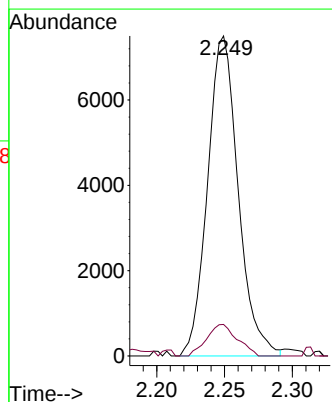
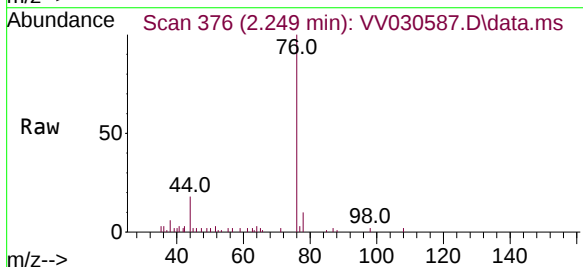
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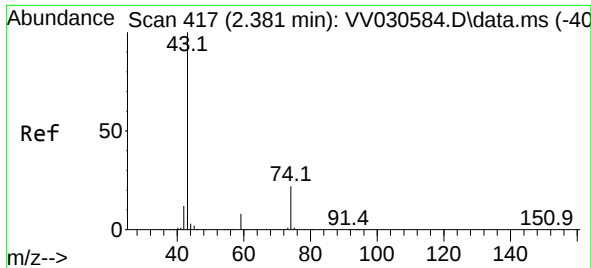
Tgt Ion: 76 Resp: 11795

Ion Ratio Lower Upper

76 100

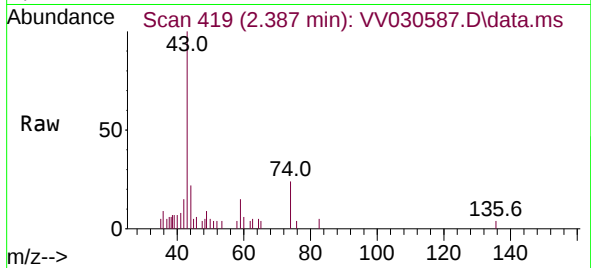
78 9.9 7.0 10.4





#15
Methyl Acetate
Concen: 2.416 ug/L
RT: 2.387 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

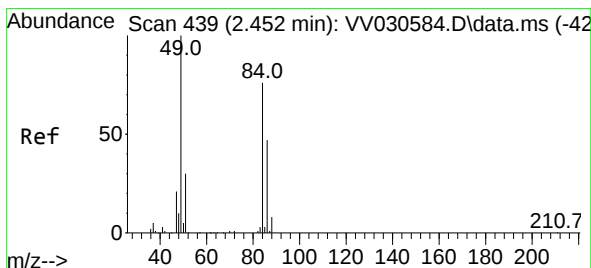
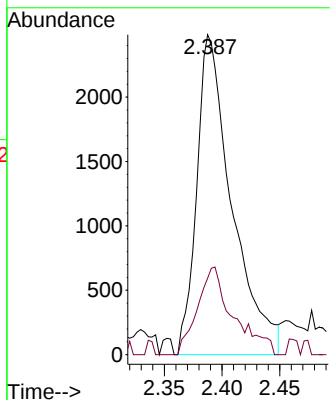
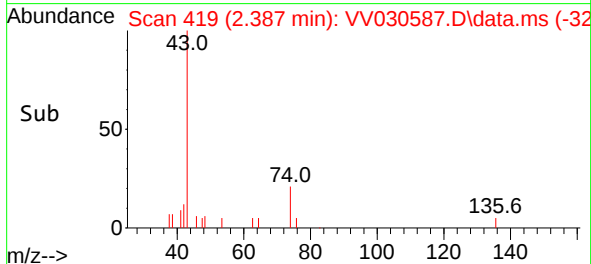
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



Tgt Ion: 43 Resp: 525
Ion Ratio Lower Upper
43 100
74 24.1 17.7 26.5

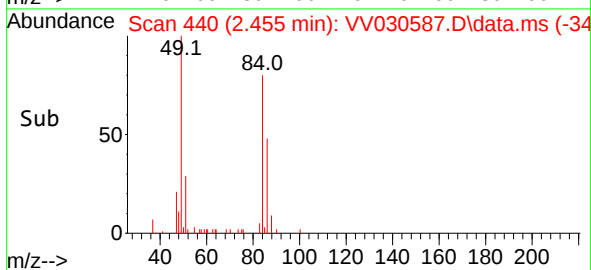
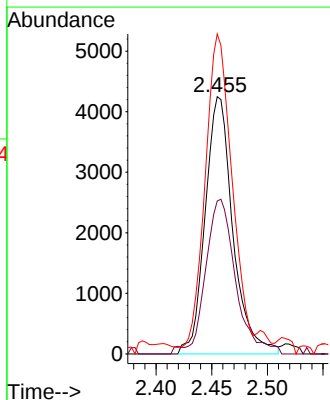
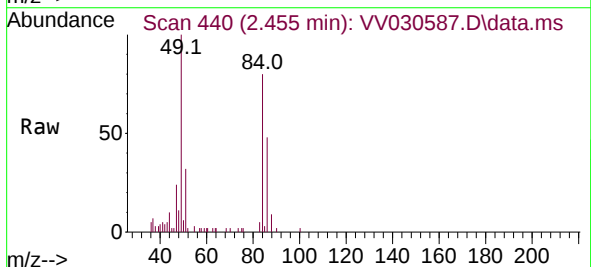
Manual Integrations
APPROVED

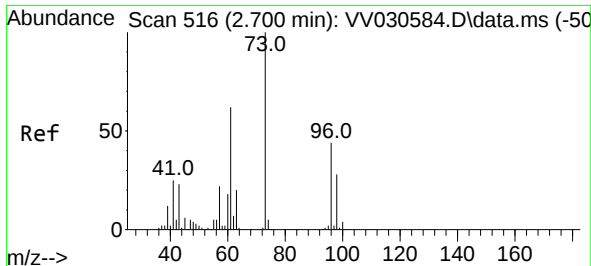
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#16
Methylene chloride
Concen: 3.513 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion: 84 Resp: 7361
Ion Ratio Lower Upper
84 100
86 59.4 45.4 84.2
49 124.4 90.4 168.0





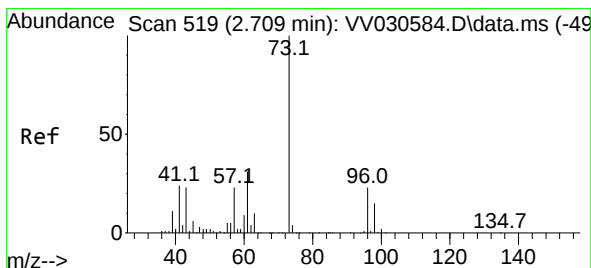
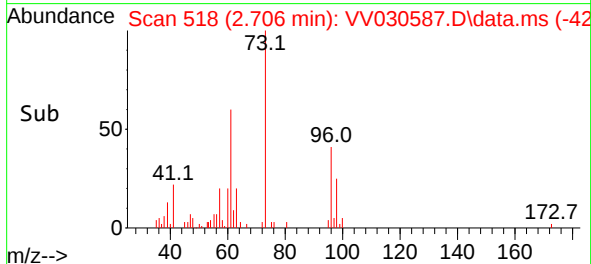
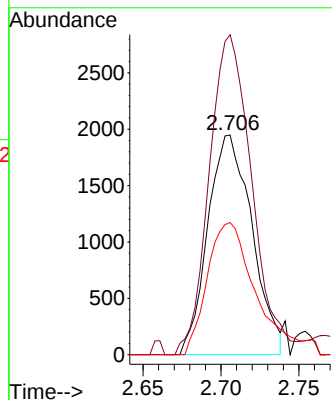
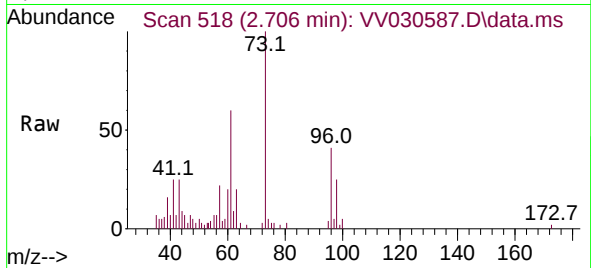
#17
trans-1,2-Dichloroethene
Concen: 2.079 ug/L
RT: 2.706 min Scan# 516
Delta R.T. 0.006 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion: 96 Resp: 384
Ion Ratio Lower Upper
96 100
61 145.7 101.0 187.6
98 60.1 45.4 84.2

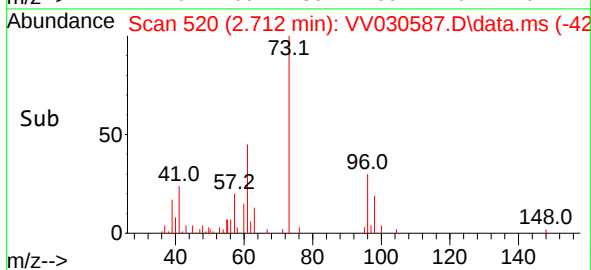
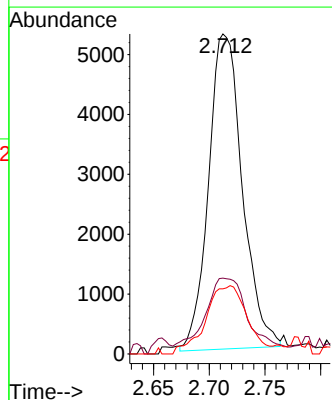
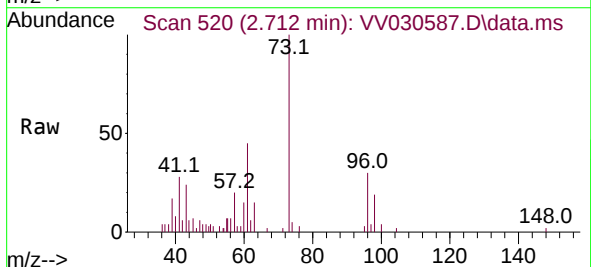
Manual Integrations
APPROVED

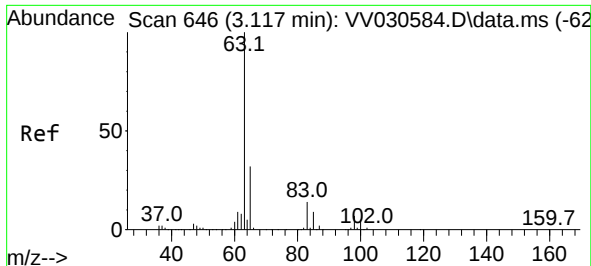
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#18
Methyl tert-butyl Ether
Concen: 1.879 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion: 73 Resp: 11124
Ion Ratio Lower Upper
73 100
43 28.2 17.6 26.4#
57 26.4 18.2 27.2





#19

1,1-Dichloroethane

Concen: 2.179 ug/L

RT: 3.121 min Scan# 647

Delta R.T. 0.003 min

Lab File: VV030587.D

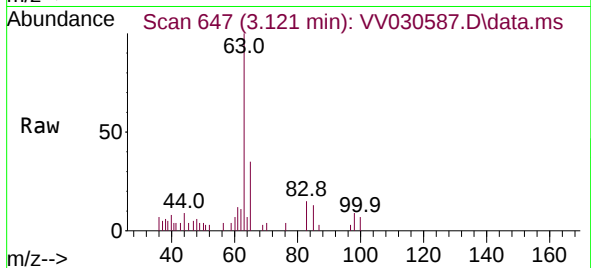
Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03



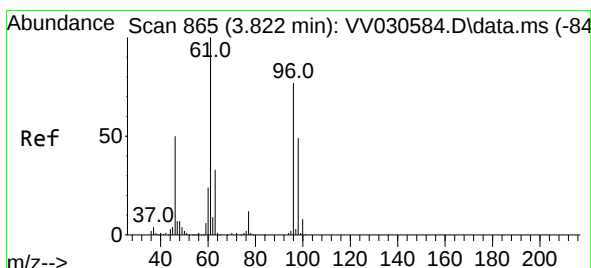
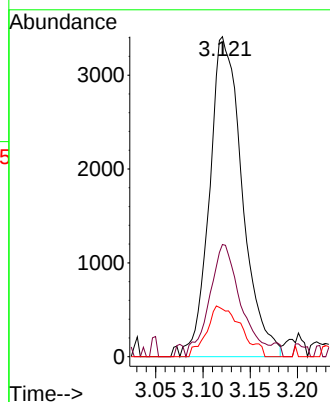
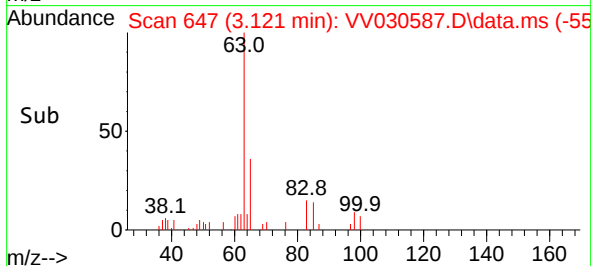
Tgt Ion: 63	Resp: 821
Ion Ratio	Lower Upper
63	100
65	35.1 21.8 40.6
83	14.8 10.2 19.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#20

cis-1,2-Dichloroethene

Concen: 2.358 ug/L m

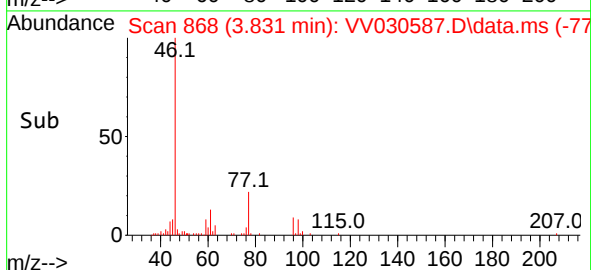
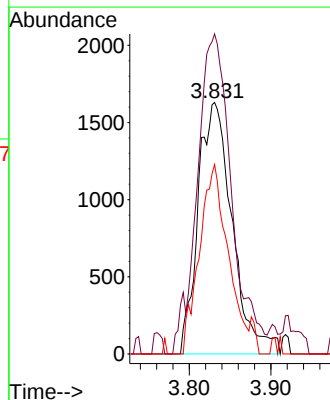
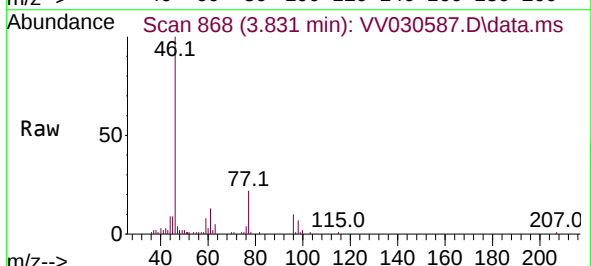
RT: 3.831 min Scan# 868

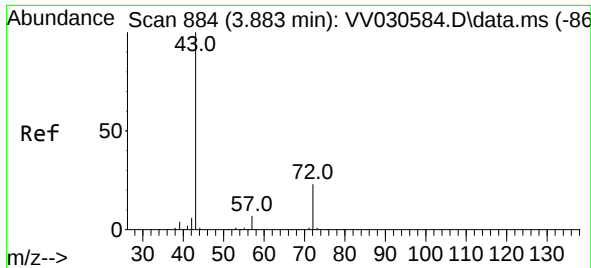
Delta R.T. 0.010 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Tgt Ion: 96	Resp: 4741
Ion Ratio	Lower Upper
96	100
61	127.2 92.3 171.3
98	75.3 45.9 85.3





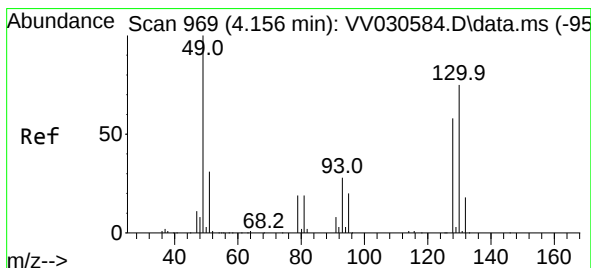
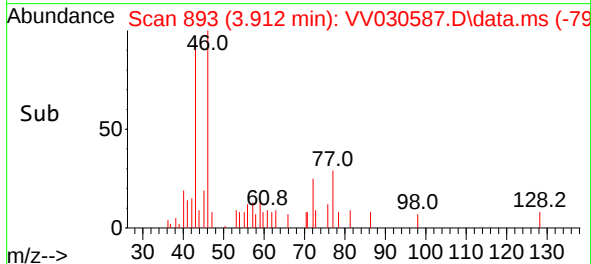
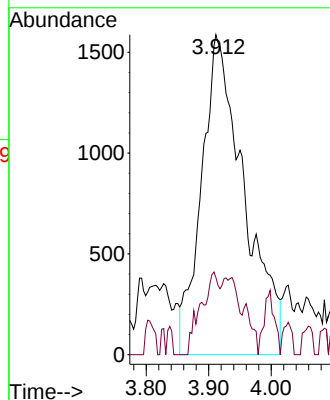
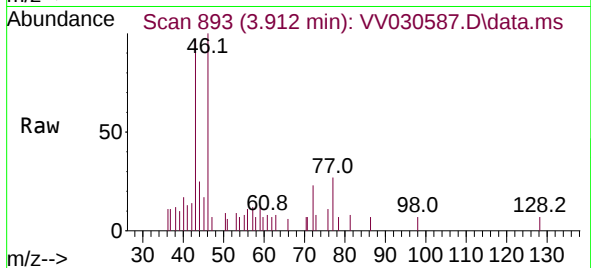
#22
2-Butanone
Concen: 4.469 ug/L m
RT: 3.912 min Scan# 893
Delta R.T. 0.029 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion: 43 Resp: 7524
Ion Ratio Lower Upper
43 100
72 0.9 11.5 34.4

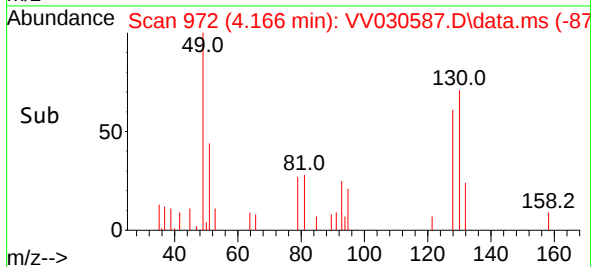
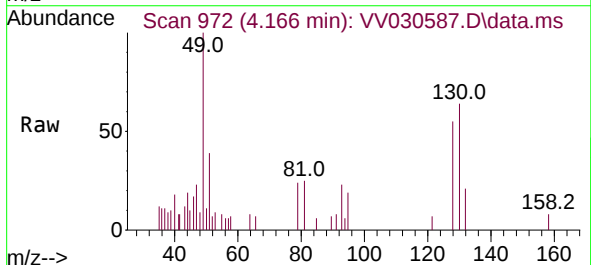
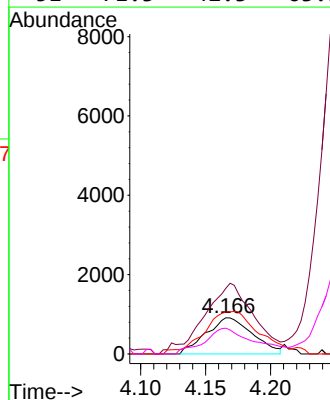
Manual Integrations
APPROVED

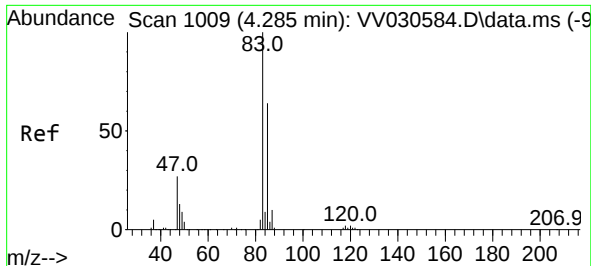
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#23
Bromochloromethane
Concen: 2.019 ug/L
RT: 4.166 min Scan# 972
Delta R.T. 0.010 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion:128 Resp: 2267
Ion Ratio Lower Upper
128 100
49 181.8 114.7 213.1
130 116.3 89.0 165.2
51 71.3 42.3 63.5





#25

Chloroform

Concen: 2.103 ug/L

RT: 4.288 min Scan# 1009

Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

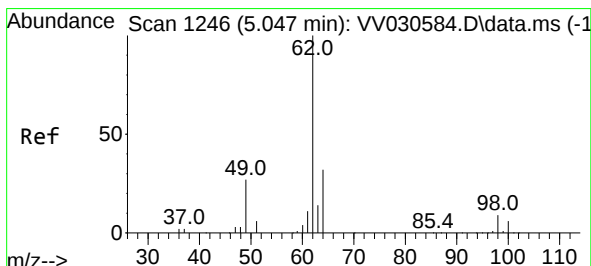
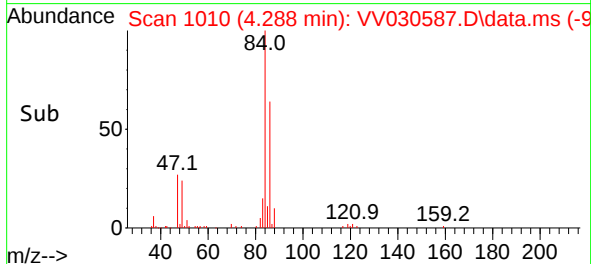
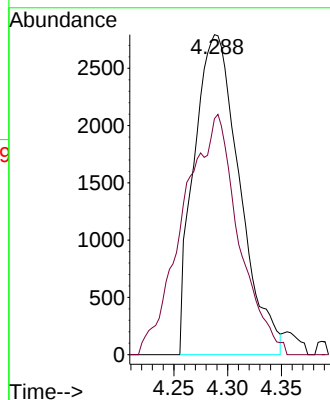
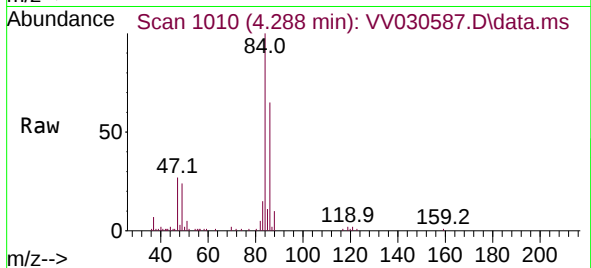
Tgt Ion: 83 Resp: 8204
 Ion Ratio Lower Upper
 83 100
 85 73.7 45.8 85.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#27

1,2-Dichloroethane

Concen: 2.423 ug/L m

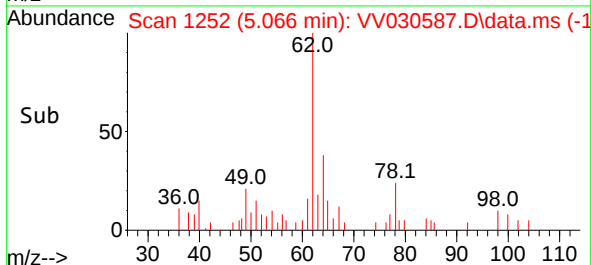
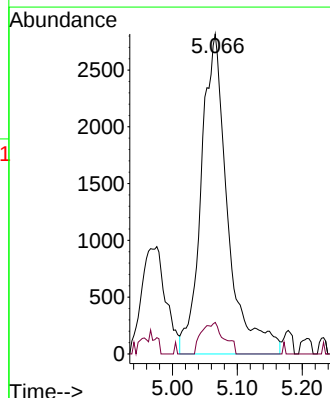
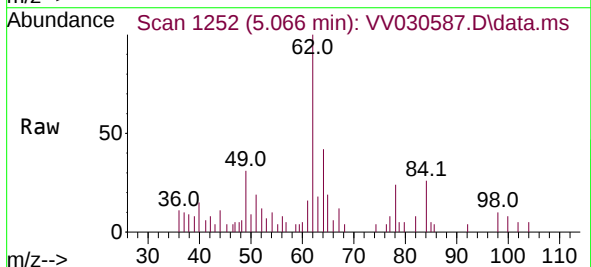
RT: 5.066 min Scan# 1252

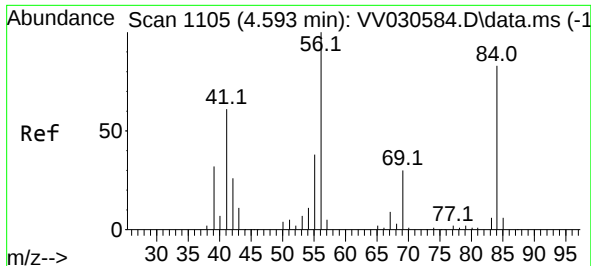
Delta R.T. 0.019 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Tgt Ion: 62 Resp: 8002
 Ion Ratio Lower Upper
 62 100
 98 9.8 6.4 9.6#





#29

Cyclohexane

Concen: 2.186 ug/L

RT: 4.593 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 56 Resp: 6640

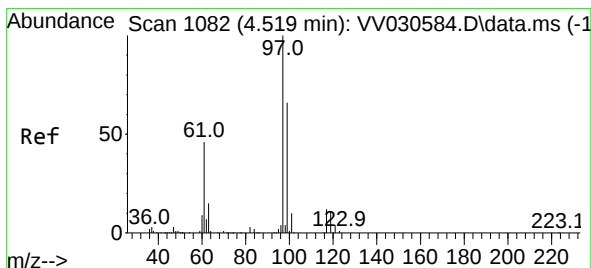
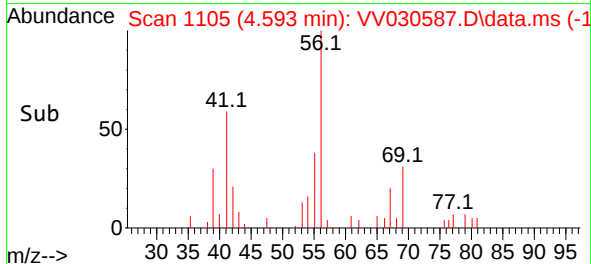
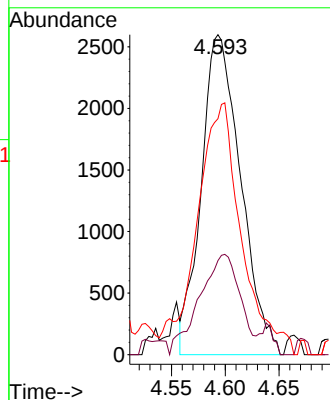
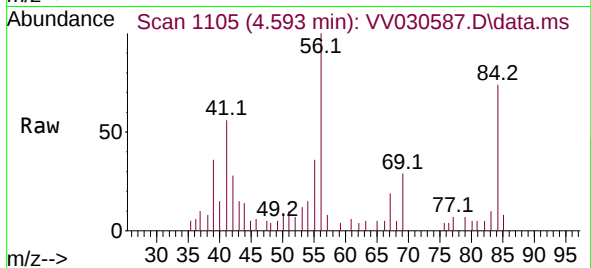
Ion	Ratio	Lower	Upper
56	100		
69	32.4	24.0	36.0
84	68.4	68.2	102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#30

1,1,1-Trichloroethane

Concen: 2.145 ug/L

RT: 4.532 min Scan# 1086

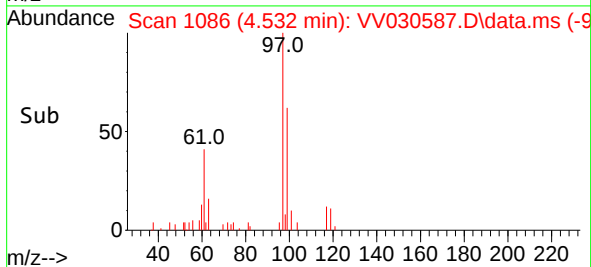
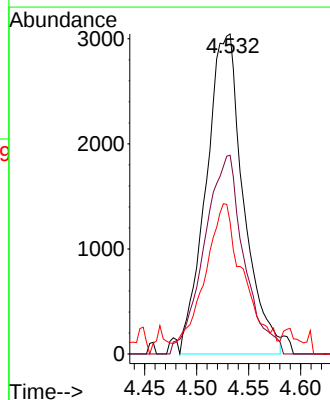
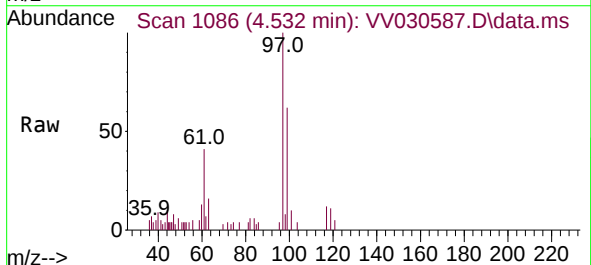
Delta R.T. 0.013 min

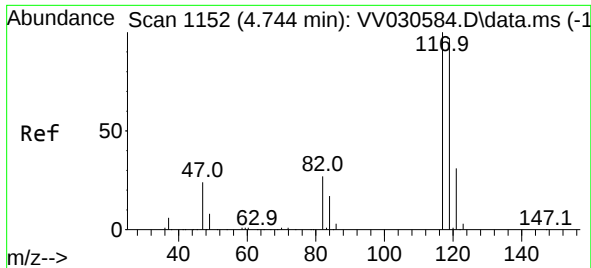
Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Tgt Ion: 97 Resp: 7630

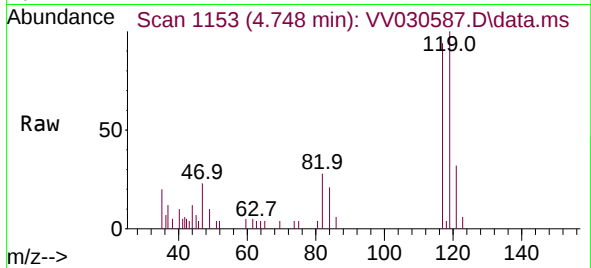
Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.4	77.0
61	31.8	37.0	55.6





#31
Carbon tetrachloride
Concen: 2.025 ug/L m
RT: 4.748 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

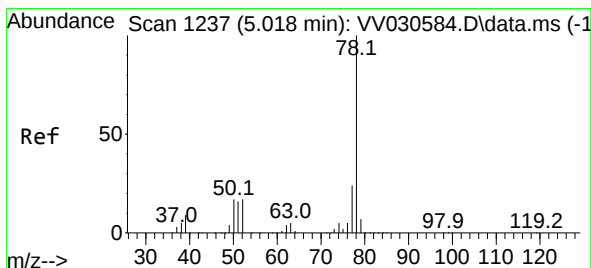
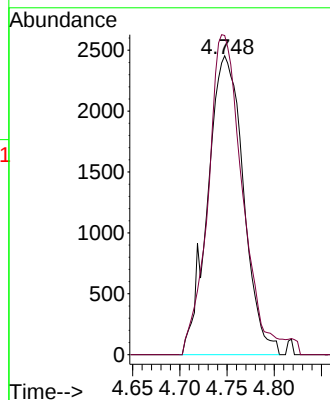
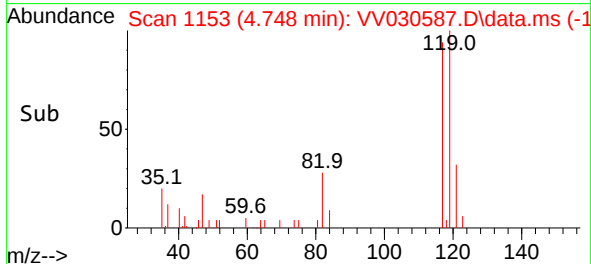
Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



Tgt Ion:117 Resp: 644
Ion Ratio Lower Upper
117 100
119 103.2 75.9 113.9

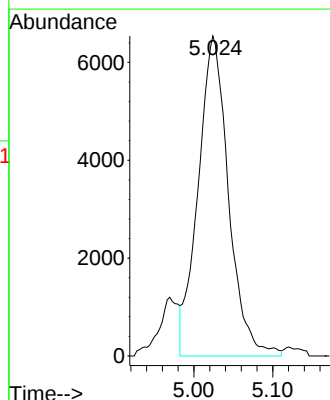
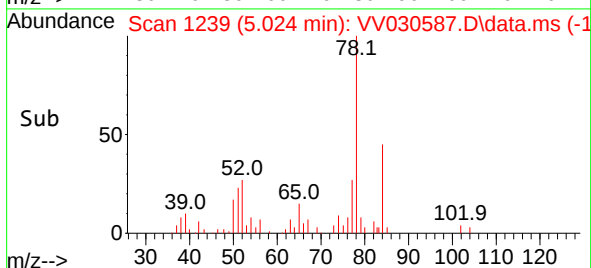
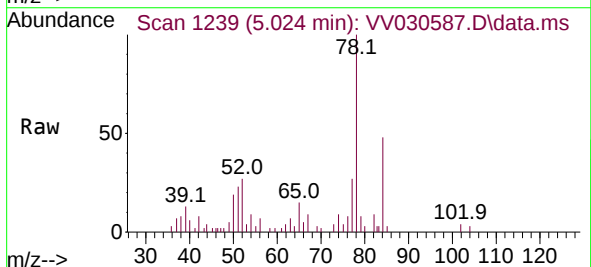
Manual Integrations
APPROVED

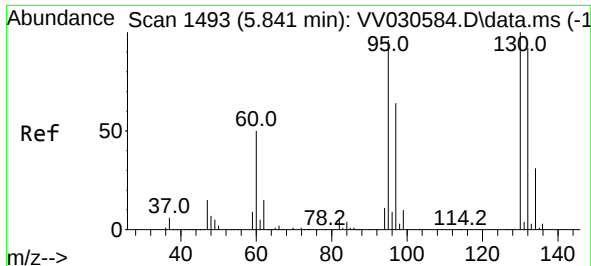
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#33
Benzene
Concen: 2.276 ug/L m
RT: 5.024 min Scan# 1239
Delta R.T. 0.006 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion: 78 Resp: 17495





#34

Trichloroethene

Concen: 2.377 ug/L

RT: 5.847 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VV030587.D

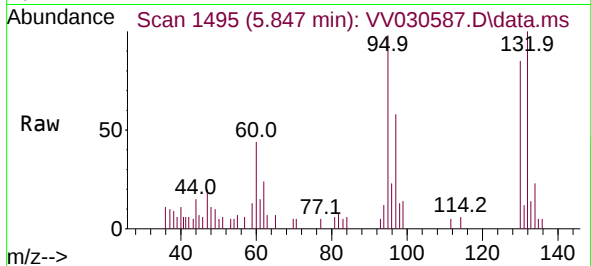
Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03



Tgt Ion: 95 Resp: 4752

Ion Ratio Lower Upper

95 100

97 59.0 45.8 85.2

132 101.8 70.6 131.2

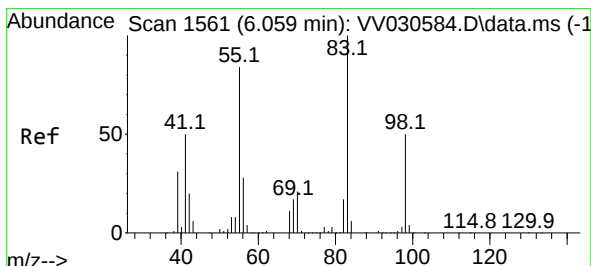
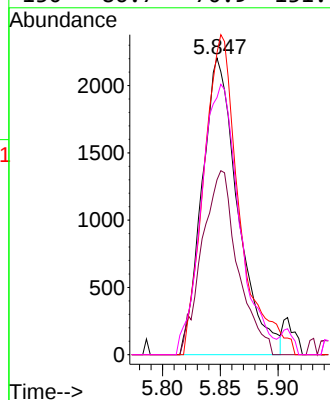
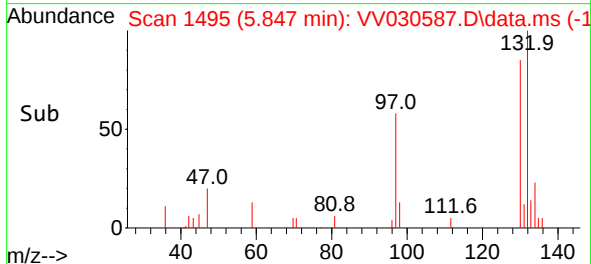
130 86.7 70.9 131.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#35

Methylcyclohexane

Concen: 2.196 ug/L

RT: 6.063 min Scan# 1562

Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

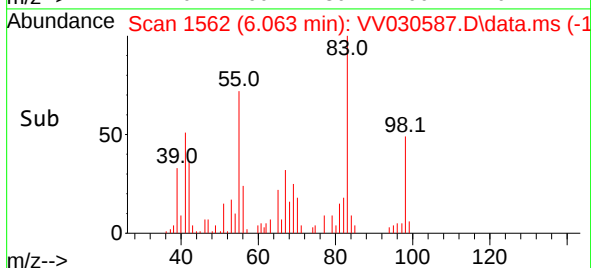
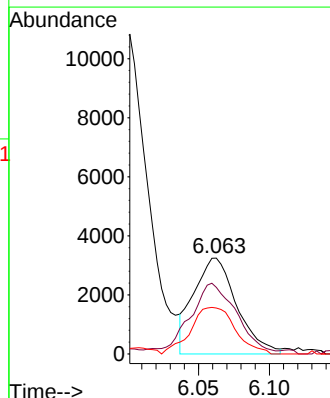
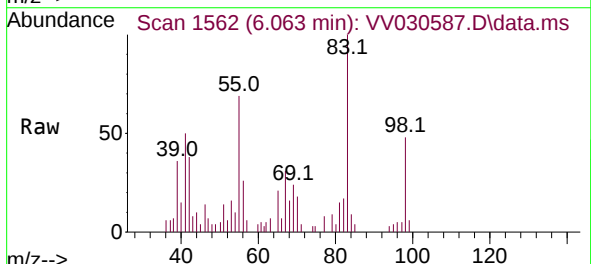
Tgt Ion: 83 Resp: 6881

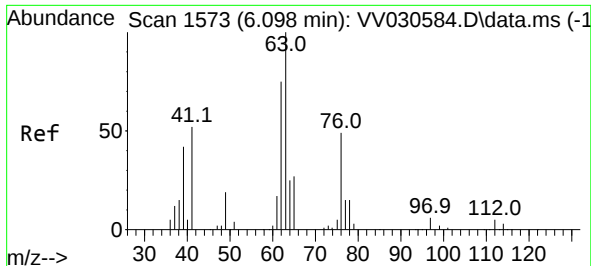
Ion Ratio Lower Upper

83 100

55 74.7 65.5 98.3

98 50.1 38.7 58.1





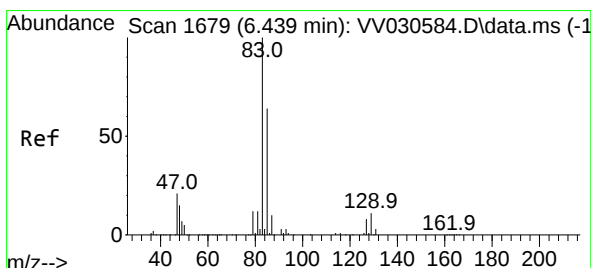
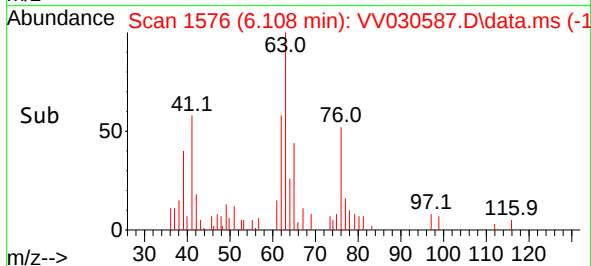
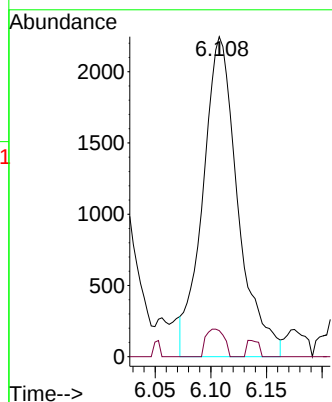
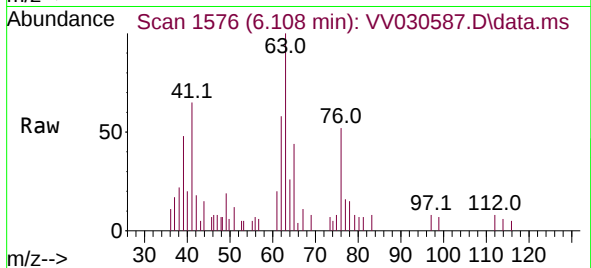
#37
1,2-Dichloropropane
Concen: 2.376 ug/L
RT: 6.108 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion: 63 Resp: 491
Ion Ratio Lower Upper
63 100
112 4.5 3.8 5.8

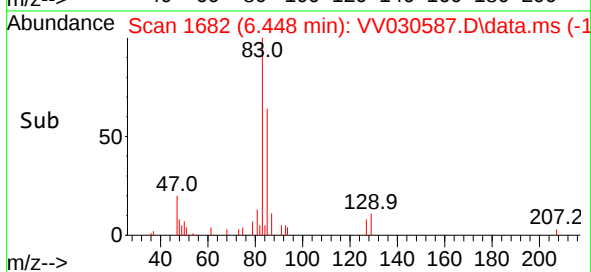
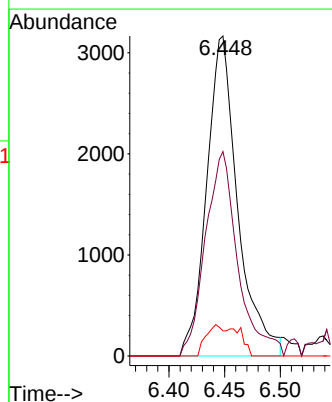
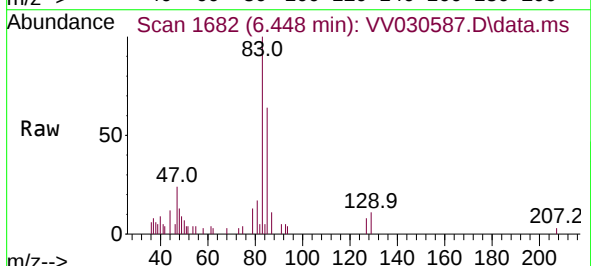
Manual Integrations
APPROVED

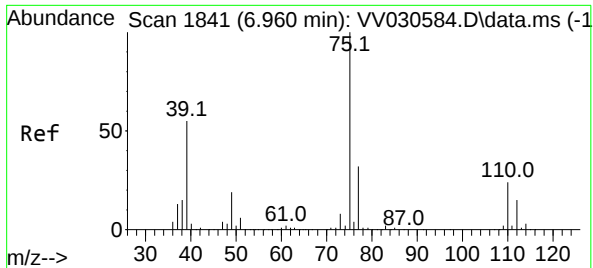
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#38
Bromodichloromethane
Concen: 2.114 ug/L
RT: 6.448 min Scan# 1682
Delta R.T. 0.010 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion: 83 Resp: 6144
Ion Ratio Lower Upper
83 100
85 63.8 45.4 84.4
127 7.8 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 2.244 ug/L

RT: 6.969 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 75 Resp: 696

Ion Ratio Lower Upper

75 100

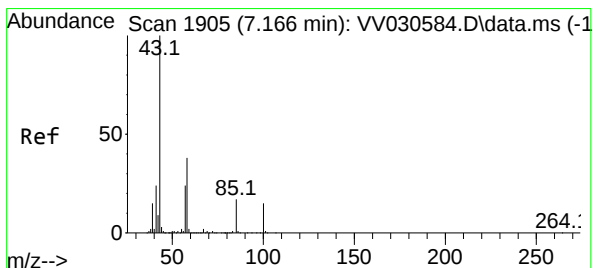
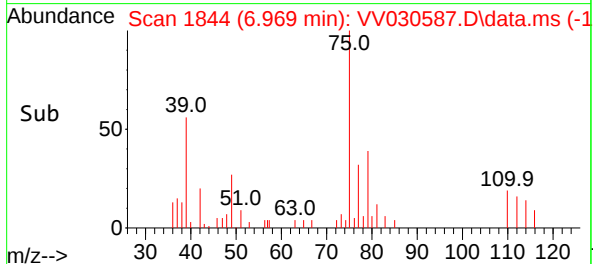
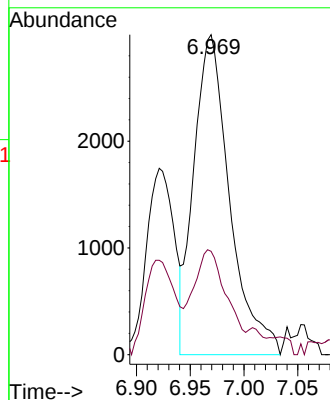
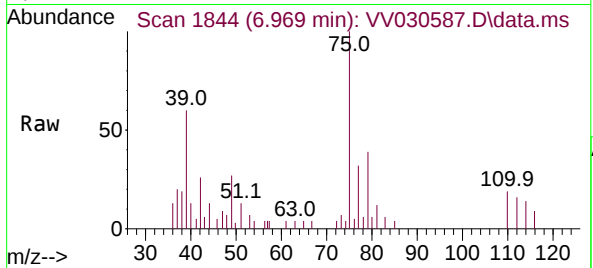
77 32.3 22.0 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#40

4-Methyl-2-pentanone

Concen: 3.541 ug/L

RT: 7.175 min Scan# 1908

Delta R.T. 0.010 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

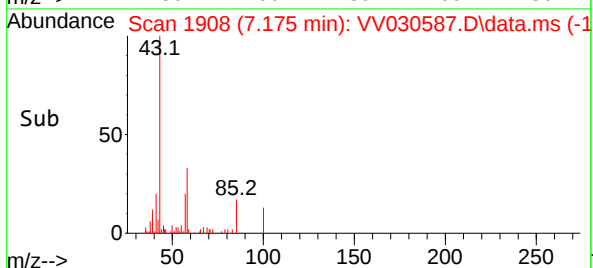
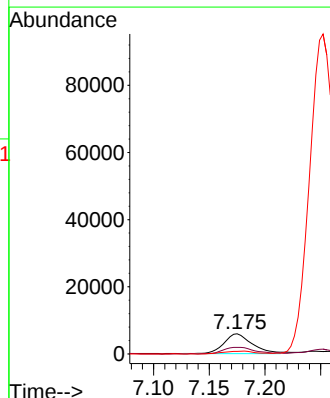
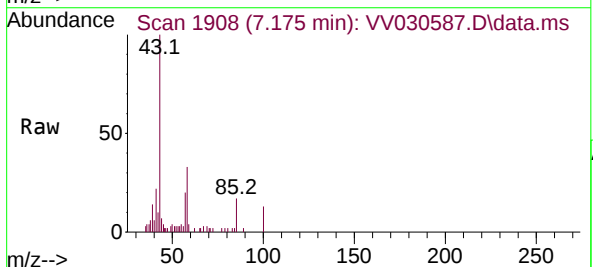
Tgt Ion: 43 Resp: 10234

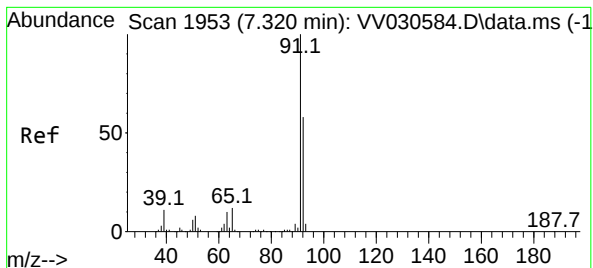
Ion Ratio Lower Upper

43 100

58 38.1 29.2 43.8

100 16.4 11.3 16.9





#42

Toluene

Concen: 2.023 ug/L

RT: 7.329 min Scan# 1953

Delta R.T. 0.010 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

Tgt Ion: 91 Resp: 1665

Ion Ratio Lower Upper

91 100

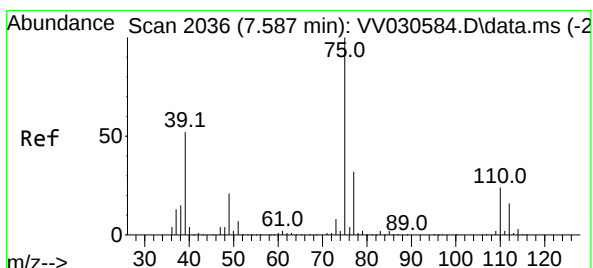
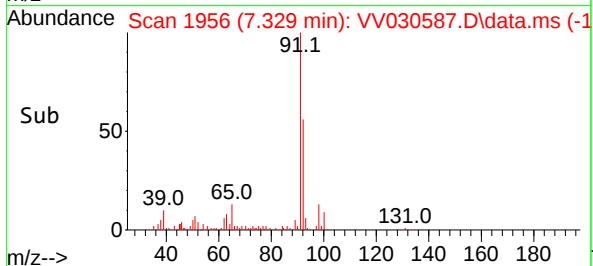
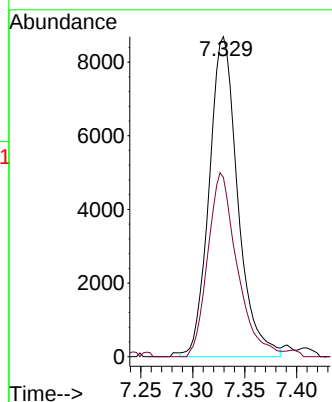
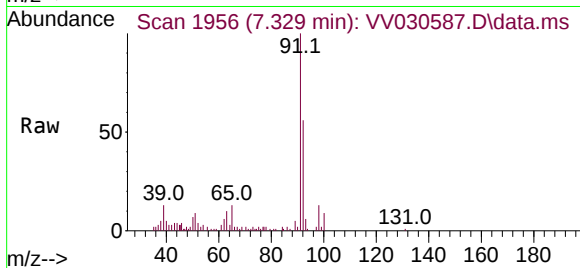
92 56.0 39.8 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#44

trans-1,3-Dichloropropene

Concen: 2.372 ug/L m

RT: 7.590 min Scan# 2037

Delta R.T. 0.003 min

Lab File: VV030587.D

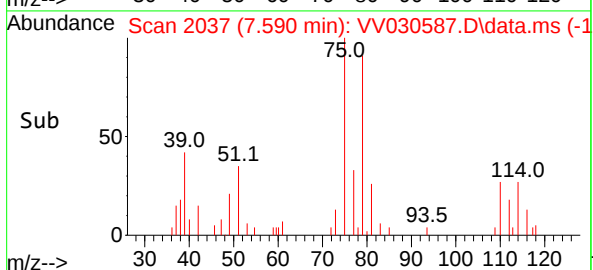
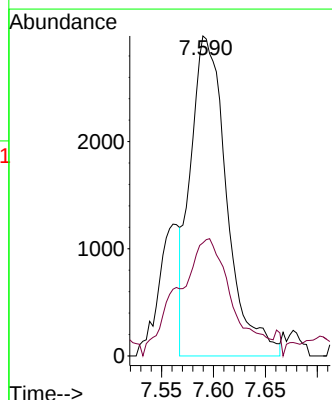
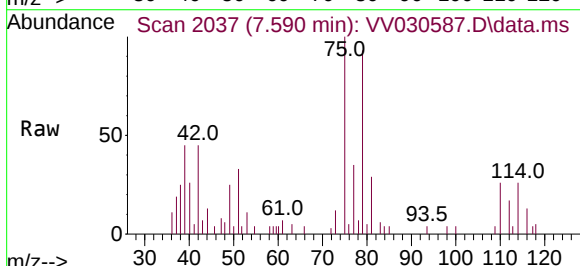
Acq: 17 Apr 2023 14:36

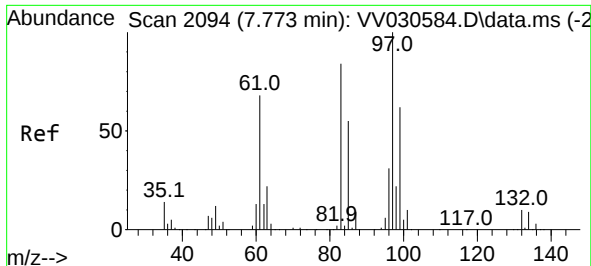
Tgt Ion: 75 Resp: 7236

Ion Ratio Lower Upper

75 100

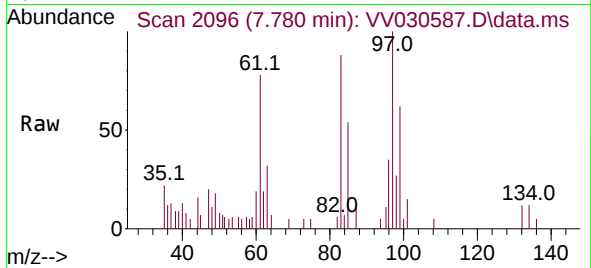
77 35.3 22.1 41.1





#45
1,1,2-Trichloroethane
Concen: 2.144 ug/L
RT: 7.780 min Scan# 2094
Delta R.T. 0.006 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

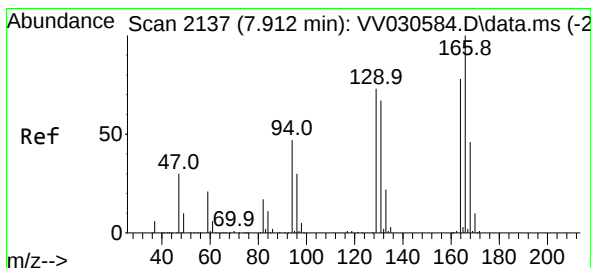
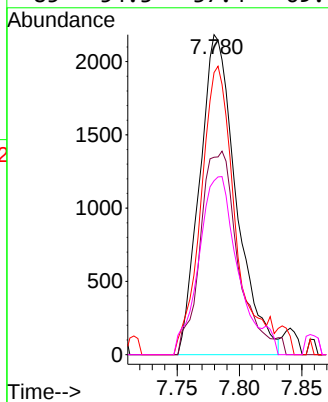
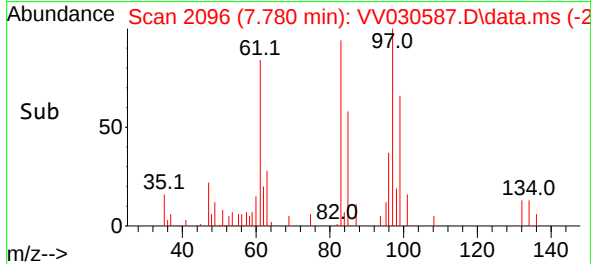
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



Tgt Ion:	97	Resp:	444
Ion	Ratio	Lower	Upper
97	100		
99	61.7	43.8	81.4
83	88.1	59.6	110.6
85	54.3	37.4	69.4

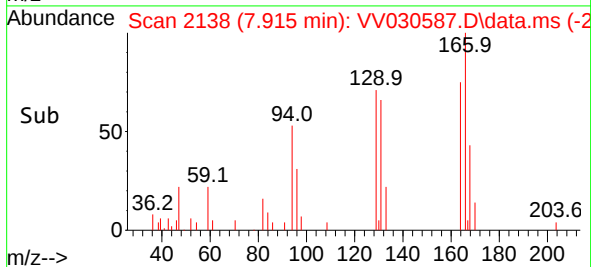
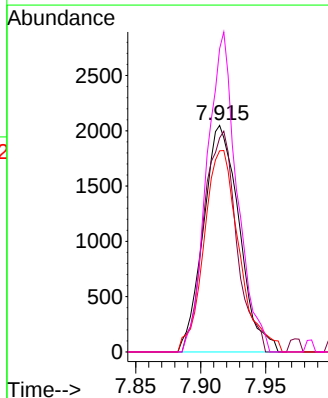
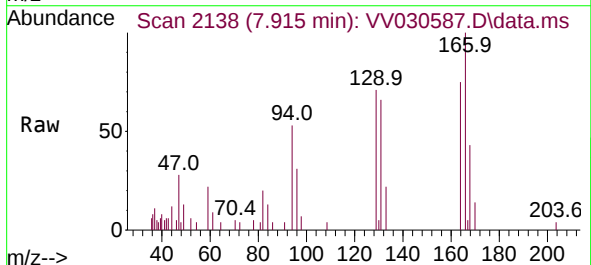
Manual Integrations
APPROVED

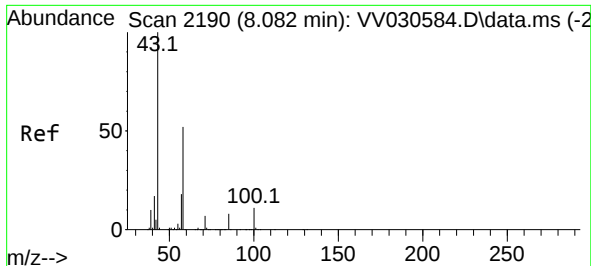
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#46
Tetrachloroethene
Concen: 2.242 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

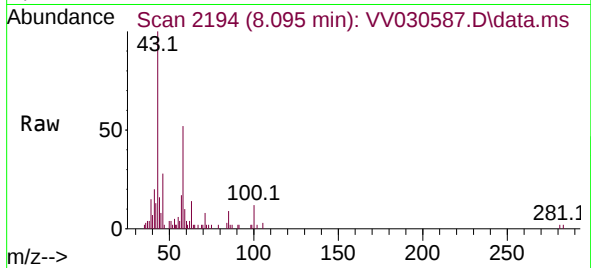
Tgt Ion:	164	Resp:	3924
Ion	Ratio	Lower	Upper
164	100		
129	94.5	63.8	118.6
131	88.8	60.3	111.9
166	133.9	89.5	166.1





#48
2-Hexanone
Concen: 6.250 ug/L m
RT: 8.095 min Scan# 2190
Delta R.T. 0.013 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

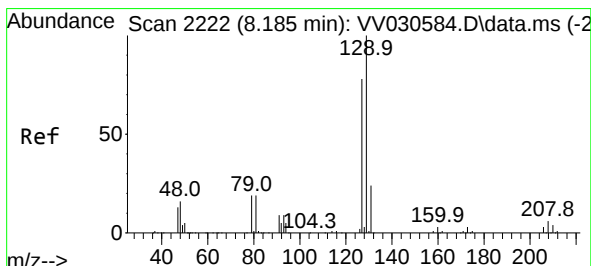
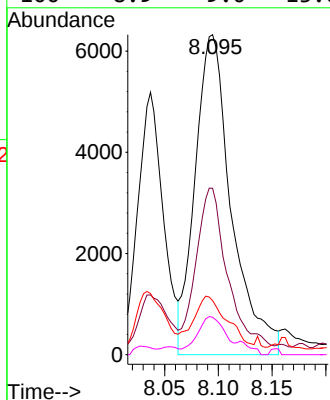
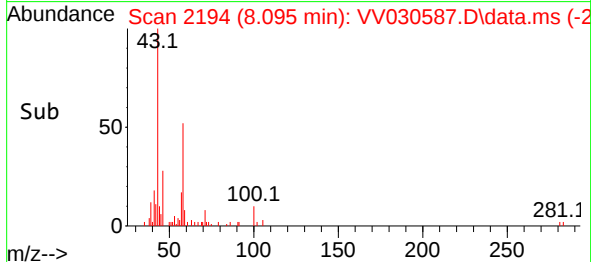
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



Tgt Ion: 43 Resp: 1490
Ion Ratio Lower Upper
43 100
58 35.5 41.4 62.0
57 16.0 14.9 22.3
100 8.9 9.0 13.6#

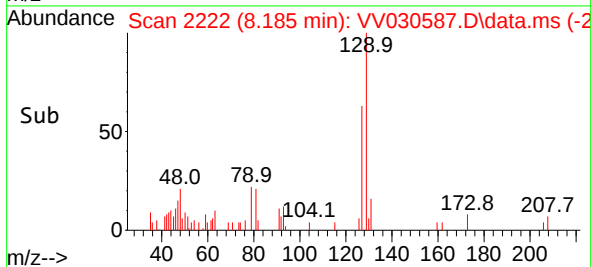
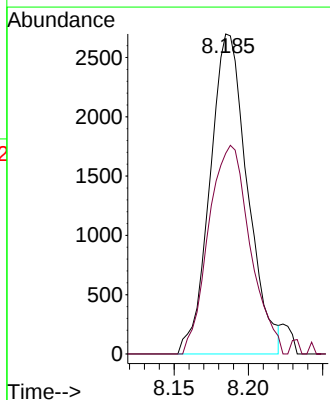
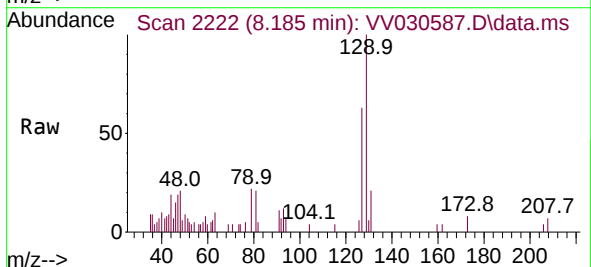
Manual Integrations
APPROVED

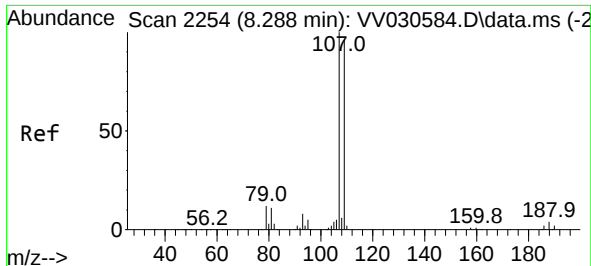
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#49
Dibromochloromethane
Concen: 2.072 ug/L
RT: 8.185 min Scan# 2222
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion:129 Resp: 4742
Ion Ratio Lower Upper
129 100
127 62.7 52.8 98.2





#50

1,2-Dibromoethane

Concen: 2.031 ug/L

RT: 8.294 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV030587.D

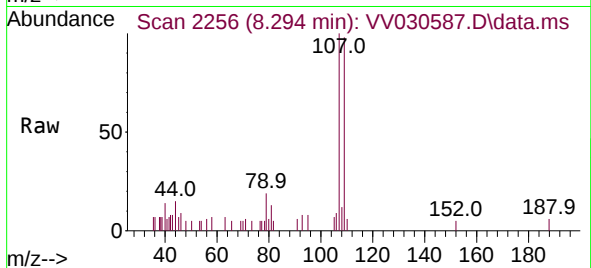
Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03



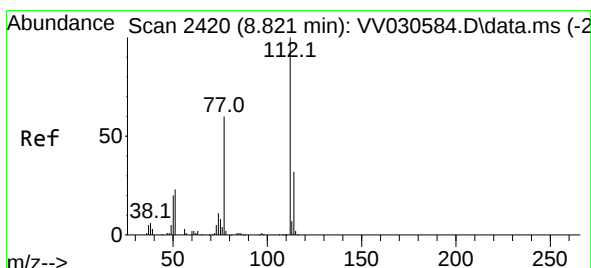
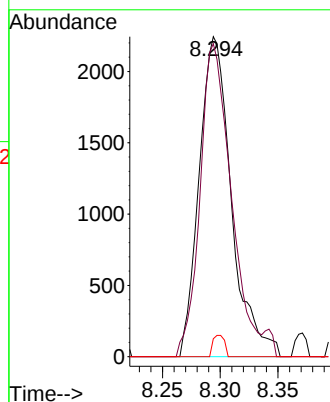
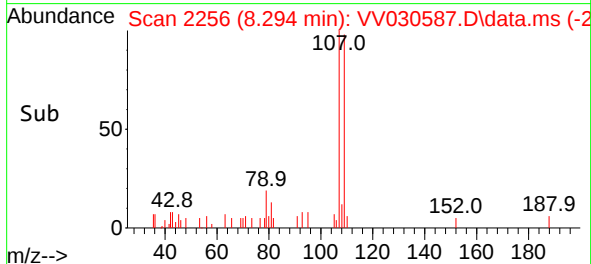
Tgt Ion:	107	Resp:	436
Ion	Ratio	Lower	Upper
107	100		
109	97.8	65.7	121.9
188	5.6	3.2	4.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#51

Chlorobenzene

Concen: 2.093 ug/L

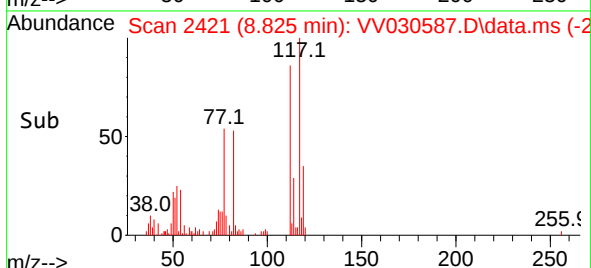
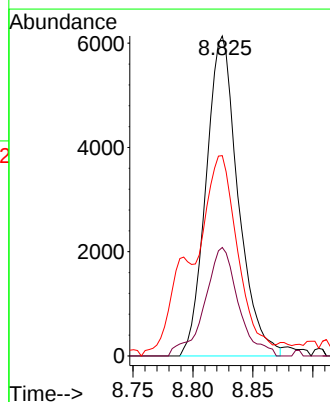
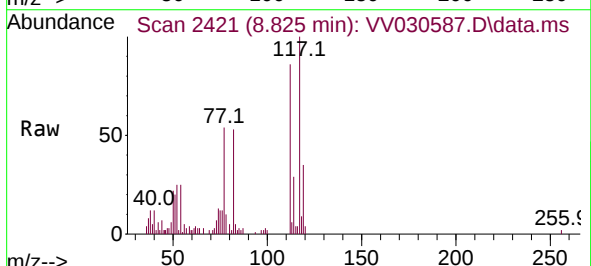
RT: 8.825 min Scan# 2421

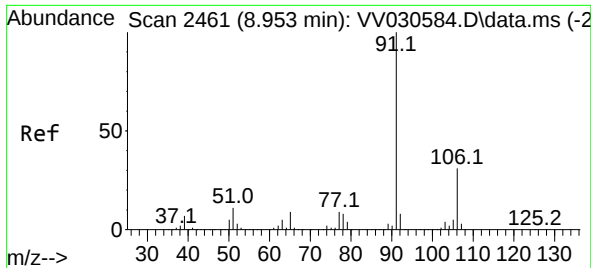
Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Tgt Ion:	112	Resp:	11414
Ion	Ratio	Lower	Upper
112	100		
114	33.9	22.4	41.6
77	62.6	47.4	71.0





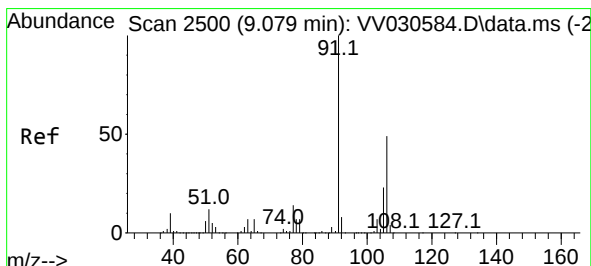
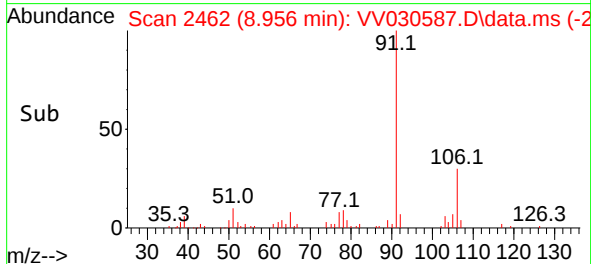
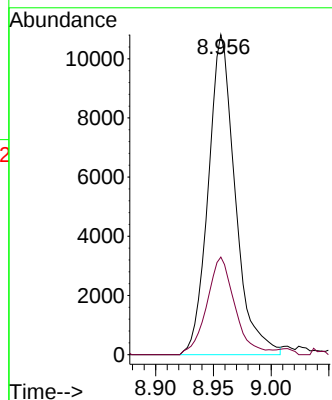
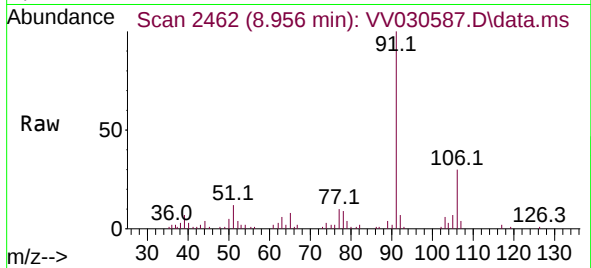
#52
Ethylbenzene
Concen: 1.926 ug/L
RT: 8.956 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion: 91 Resp: 1755
Ion Ratio Lower Upper
91 100
106 30.5 21.8 40.4

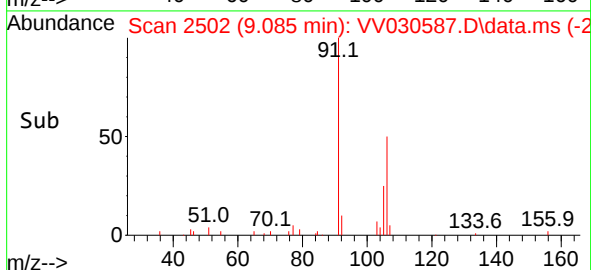
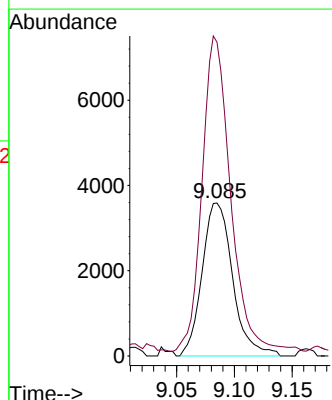
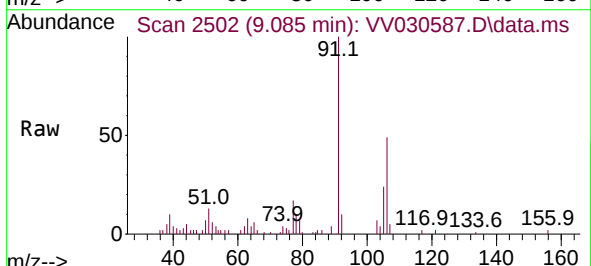
Manual Integrations
APPROVED

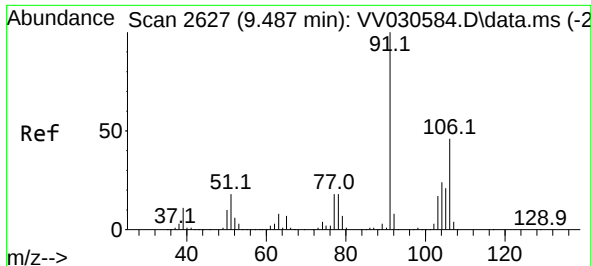
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#53
m,p-Xylene
Concen: 1.919 ug/L
RT: 9.085 min Scan# 2502
Delta R.T. 0.006 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion:106 Resp: 6607
Ion Ratio Lower Upper
106 100
91 205.1 144.7 268.7





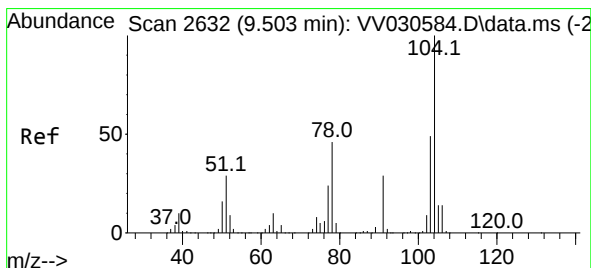
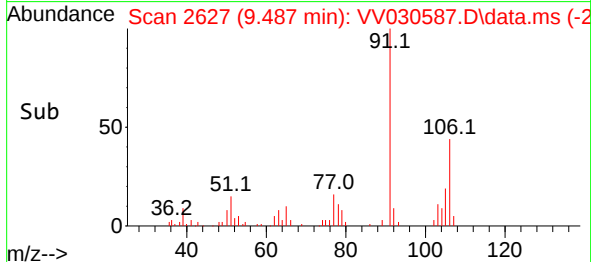
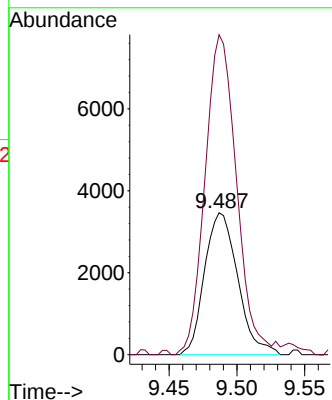
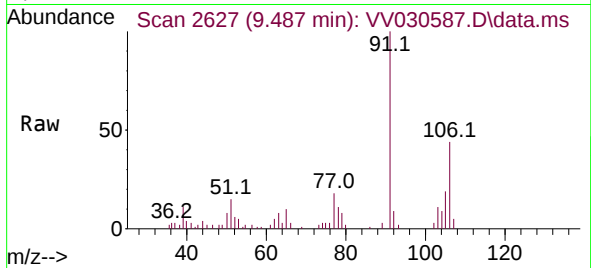
#54
o-Xylene
Concen: 1.752 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion:106 Resp: 5902
Ion Ratio Lower Upper
106 100
91 225.4 152.6 283.4

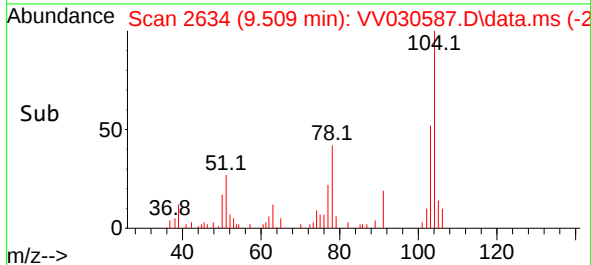
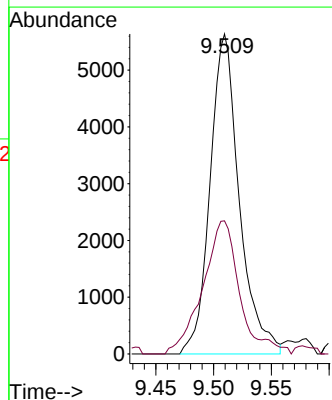
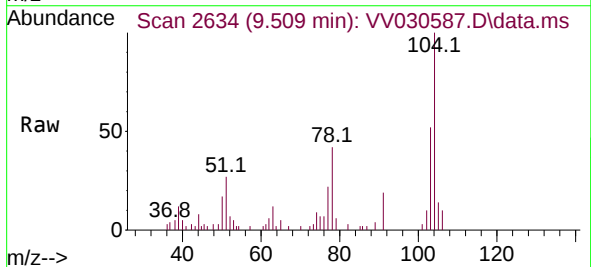
Manual Integrations
APPROVED

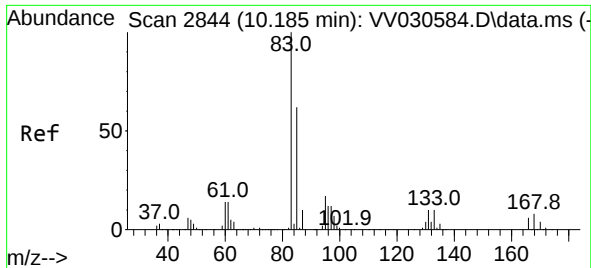
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#55
Styrene
Concen: 1.677 ug/L
RT: 9.509 min Scan# 2634
Delta R.T. 0.006 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion:104 Resp: 9921
Ion Ratio Lower Upper
104 100
78 41.6 32.3 59.9





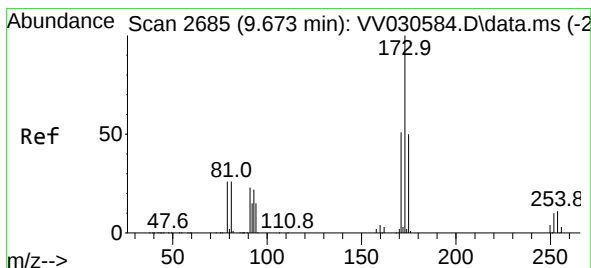
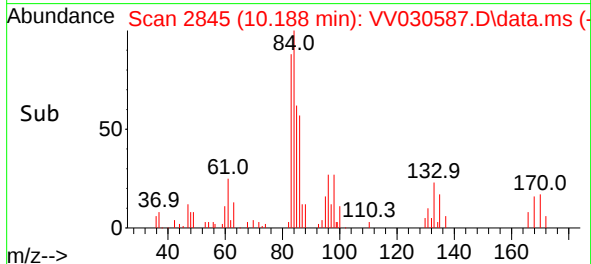
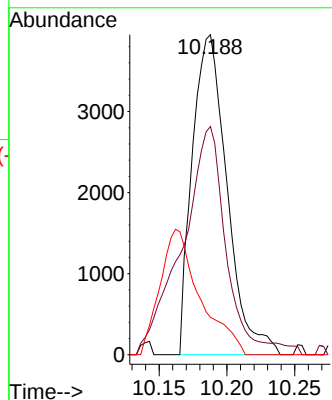
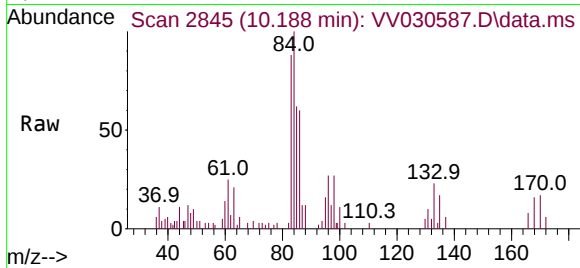
#57
1,1,2,2-Tetrachloroethane
Concen: 2.064 ug/L
RT: 10.188 min Scan# 2844
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion: 83 Resp: 7030
Ion Ratio Lower Upper
83 100
85 71.3 45.1 83.7
131 11.7 8.0 12.0

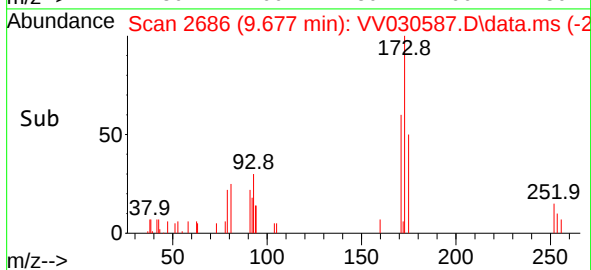
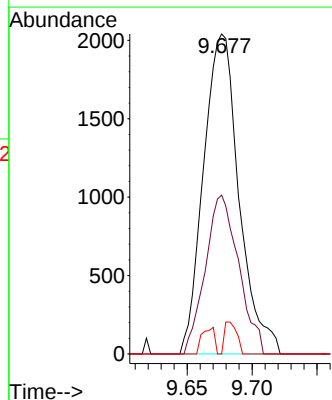
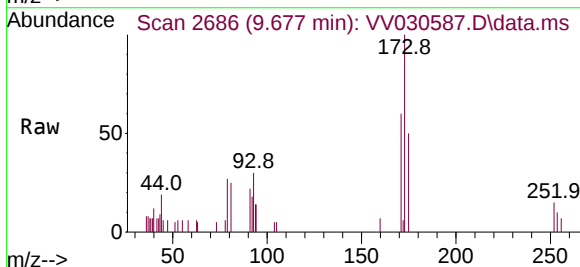
Manual Integrations
APPROVED

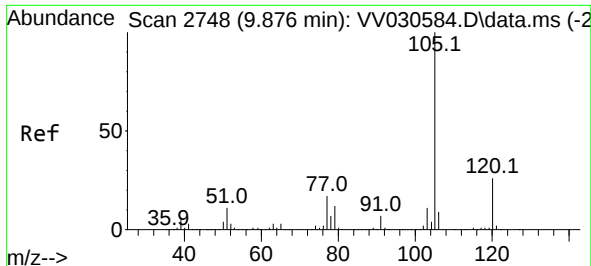
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#59
Bromoform
Concen: 2.426 ug/L
RT: 9.677 min Scan# 2686
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Tgt Ion:173 Resp: 3880
Ion Ratio Lower Upper
173 100
175 46.6 38.8 58.2
254 3.4 8.2 12.4





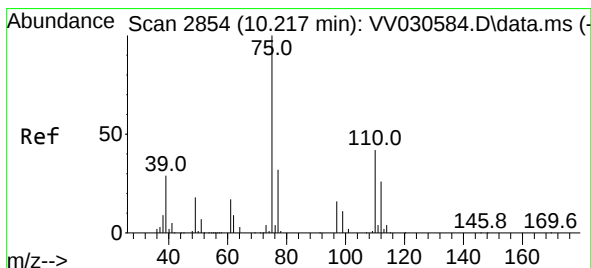
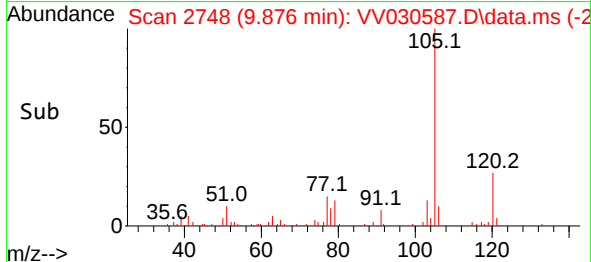
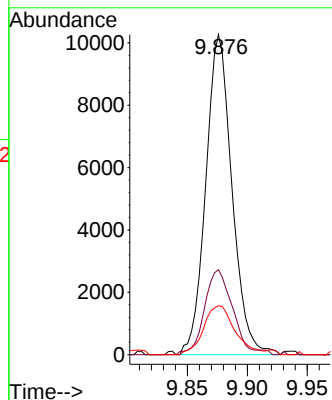
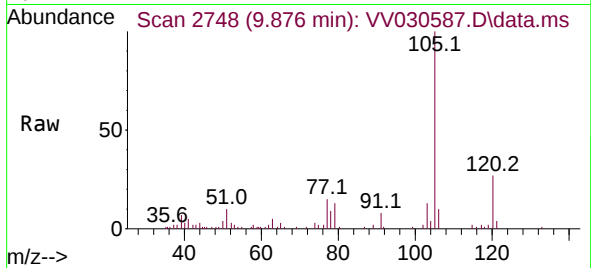
#60
Isopropylbenzene
Concen: 1.960 ug/L
RT: 9.876 min Scan# 2748
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03

Tgt Ion:105 Resp: 15618
Ion Ratio Lower Upper
105 100
120 28.0 20.9 31.3
77 18.3 13.0 19.6

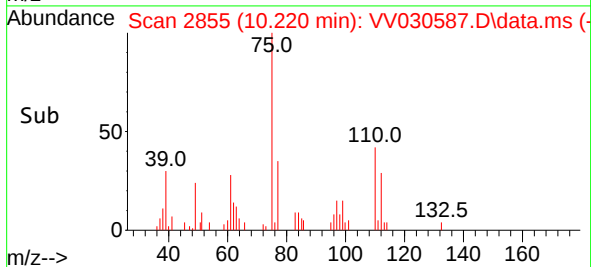
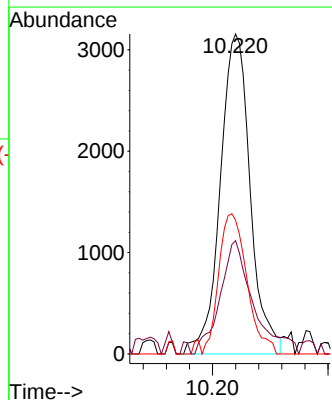
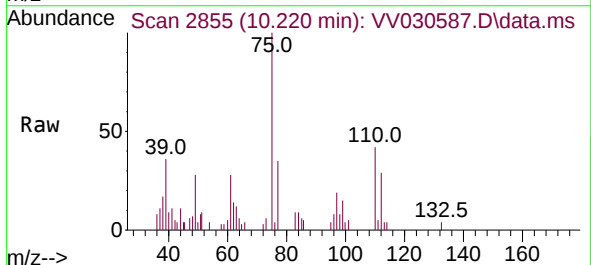
Manual Integrations
APPROVED

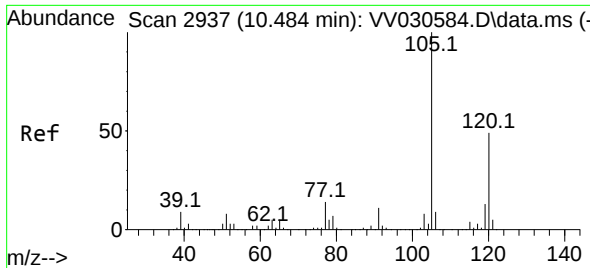
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023



#61
1,2,3-Trichloropropane
Concen: 2.488 ug/L
RT: 10.220 min Scan# 2855
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

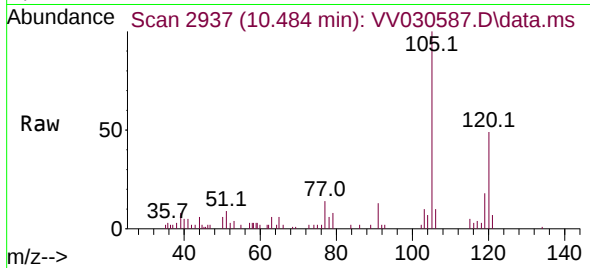
Tgt Ion: 75 Resp: 5694
Ion Ratio Lower Upper
75 100
77 39.3 25.7 38.5#
110 41.1 32.8 49.2





#62
1,3,5-Trimethylbenzene
Concen: 1.874 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

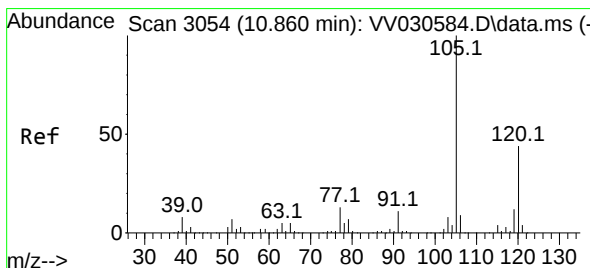
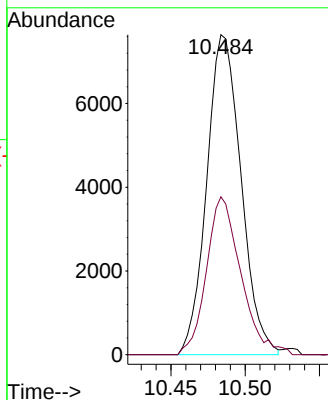
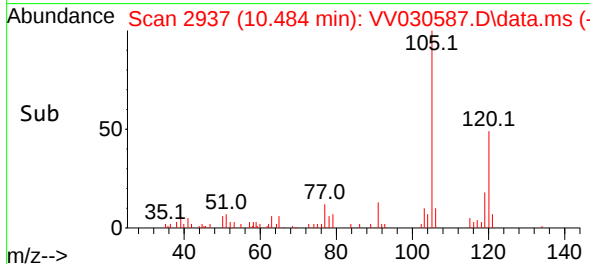
Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



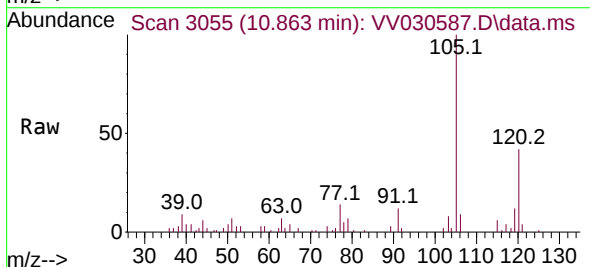
Tgt Ion:105 Resp: 12295
Ion Ratio Lower Upper
105 100
120 48.6 39.2 58.8

Manual Integrations
APPROVED

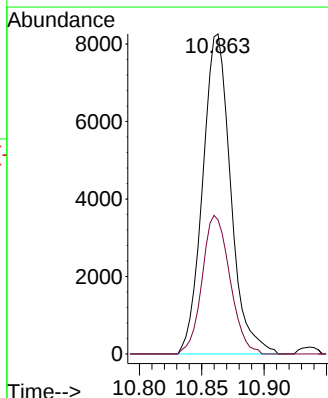
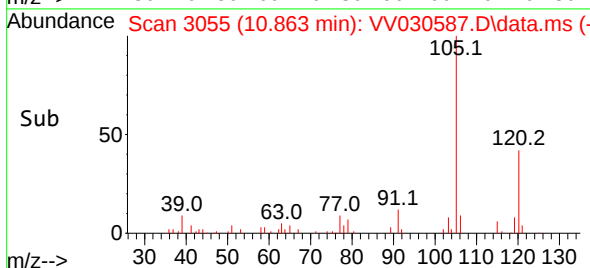
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023

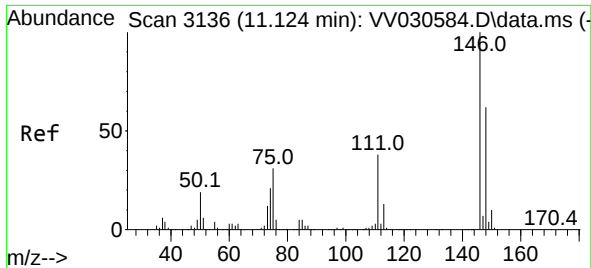


#63
1,2,4-Trimethylbenzene
Concen: 1.973 ug/L
RT: 10.863 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36



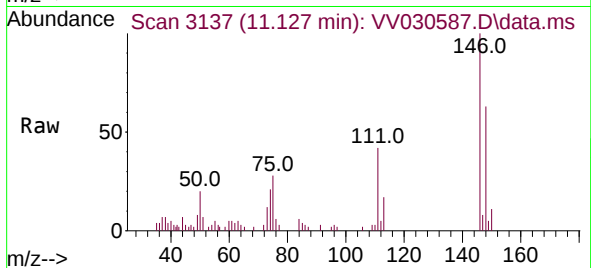
Tgt Ion:105 Resp: 12924
Ion Ratio Lower Upper
105 100
120 43.0 36.2 54.4





#64
1,3-Dichlorobenzene
Concen: 2.173 ug/L
RT: 11.127 min Scan# 3136
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

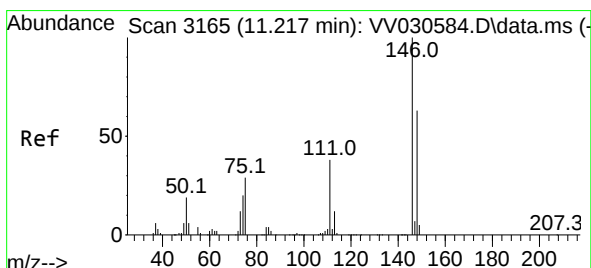
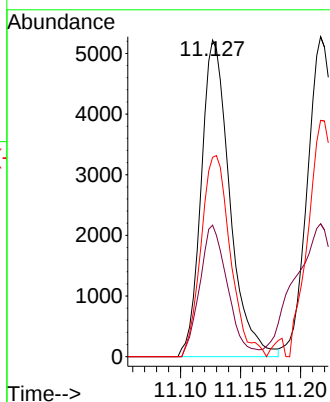
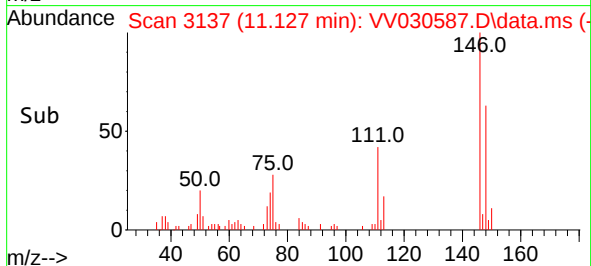
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



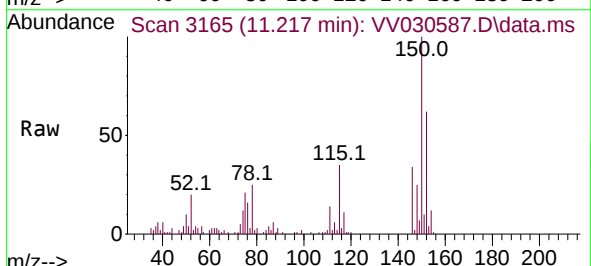
Tgt Ion:146 Resp: 866
Ion Ratio Lower Upper
146 100
111 41.5 27.0 50.2
148 63.0 44.8 83.2

Manual Integrations
APPROVED

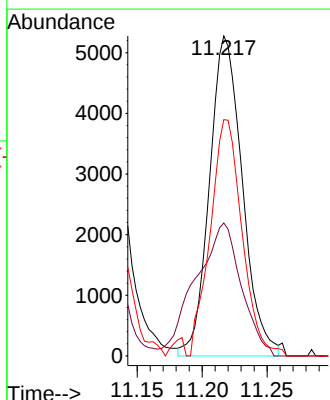
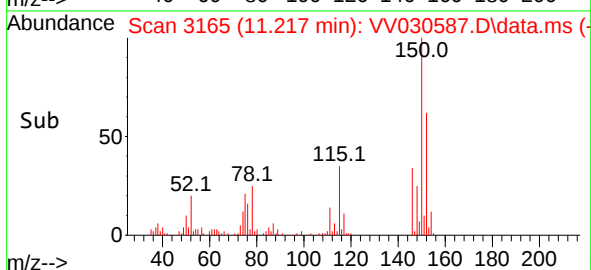
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023

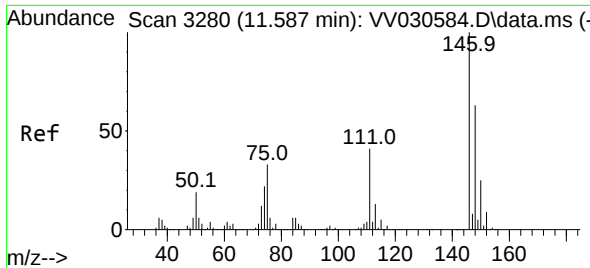


#65
1,4-Dichlorobenzene
Concen: 2.205 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36



Tgt Ion:146 Resp: 9277
Ion Ratio Lower Upper
146 100
111 41.5 26.5 49.1
148 73.8 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 2.330 ug/L

RT: 11.586 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV030587.D

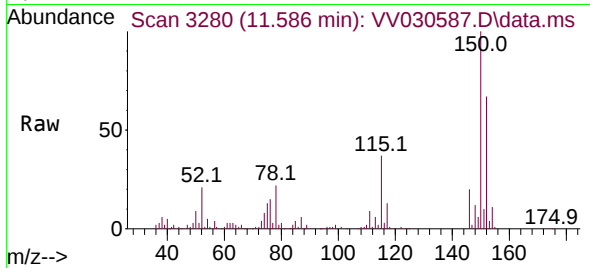
Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03



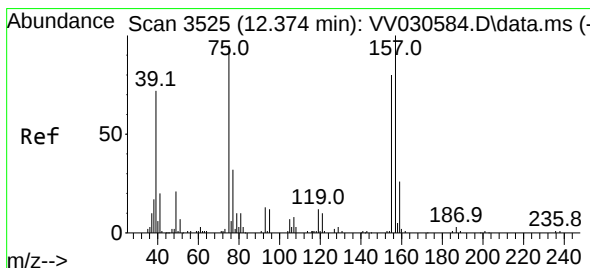
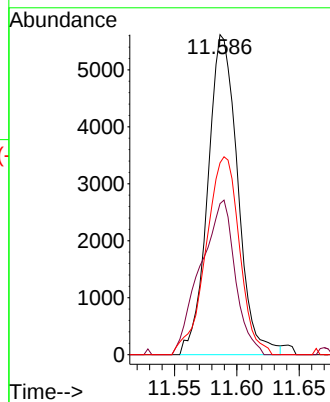
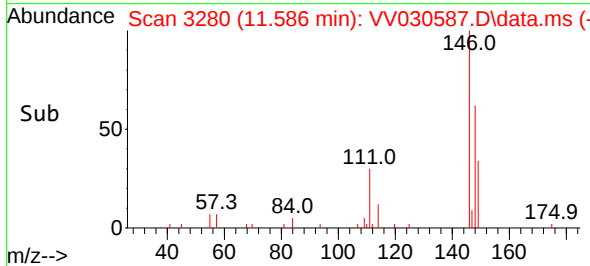
Tgt Ion:	146	Resp:	937
Ion Ratio	Lower	Upper	
146	100		
111	47.2	32.0	48.0
148	60.0	50.6	76.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#68

1,2-Dibromo-3-chloropropane

Concen: 2.705 ug/L

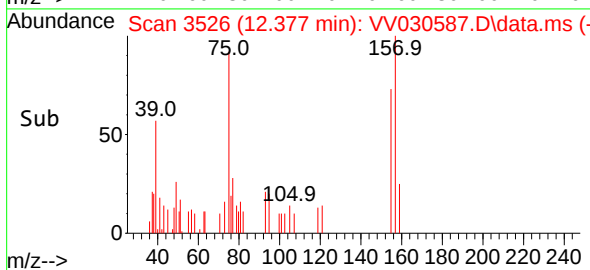
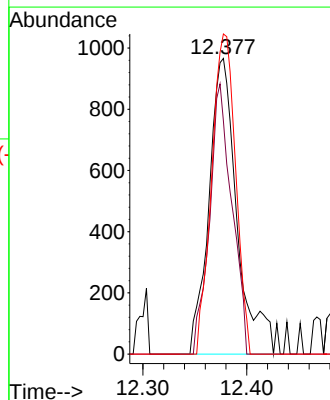
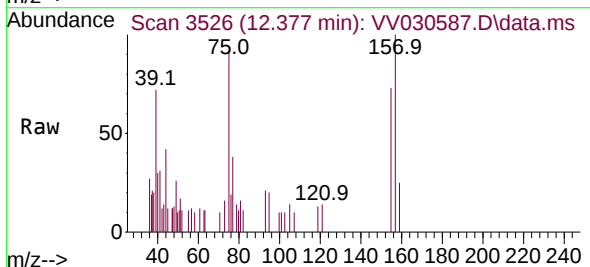
RT: 12.377 min Scan# 3526

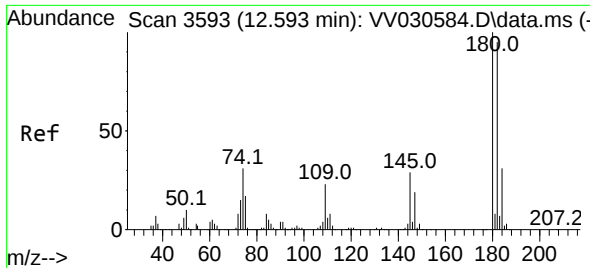
Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

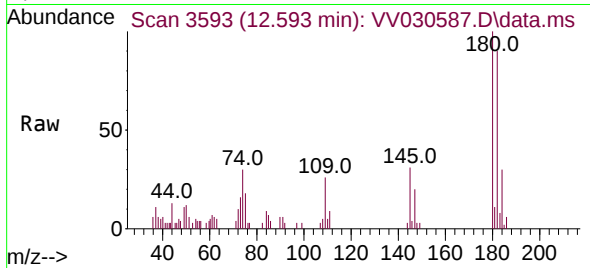
Tgt Ion:	75	Resp:	1834
Ion Ratio	Lower	Upper	
75	100		
155	78.9	65.0	97.6
157	108.3	84.4	126.6





#69
1,3,5-Trichlorobenzene
Concen: 2.177 ug/L
RT: 12.593 min Scan# 3593
Delta R.T. -0.000 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36

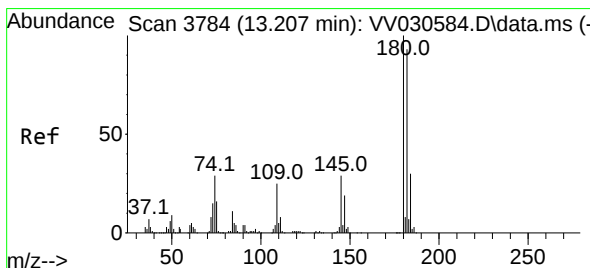
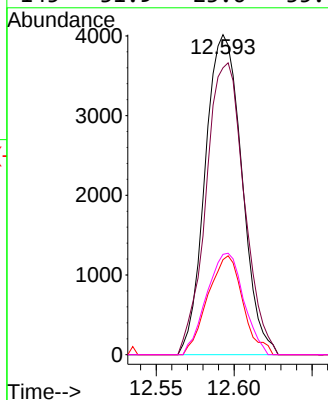
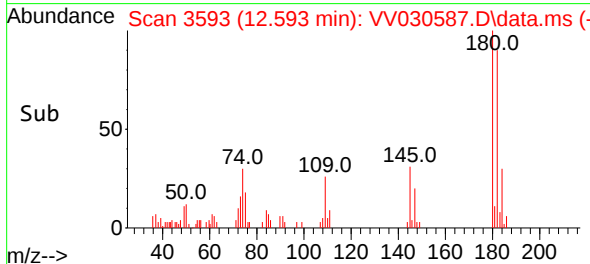
Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2023-03



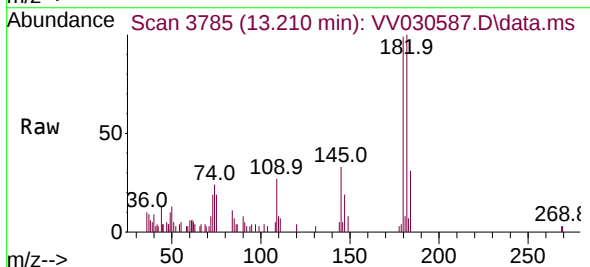
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.4	114.6
184	29.6	24.1	36.1
145	31.9	23.6	35.4

Manual Integrations
APPROVED

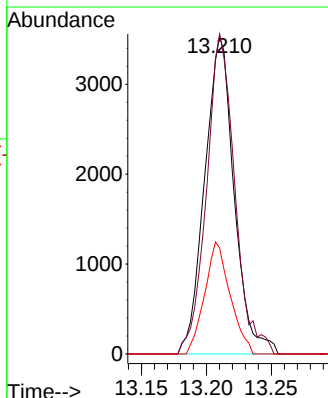
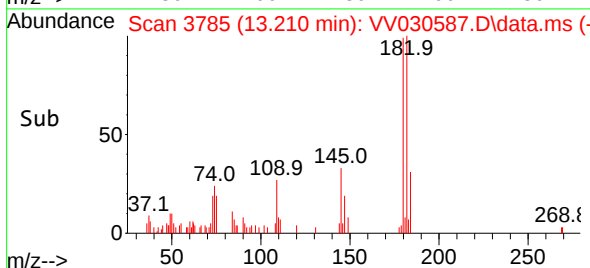
Reviewed By :John Carlone 04/18/2023
Supervised By :Mahesh Dadoda 04/18/2023

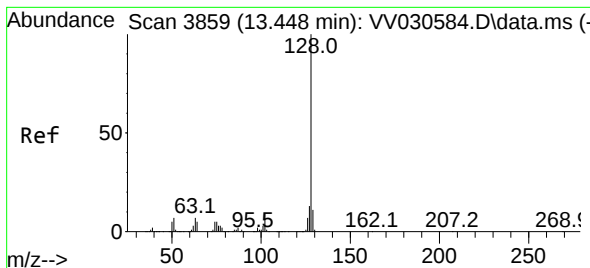


#70
1,2,4-trichlorobenzene
Concen: 2.170 ug/L
RT: 13.210 min Scan# 3785
Delta R.T. 0.003 min
Lab File: VV030587.D
Acq: 17 Apr 2023 14:36



Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.9	113.9
145	30.5	23.4	35.2





#71

Naphthalene

Concen: 2.055 ug/L

RT: 13.451 min Scan# 3860

Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2023-03

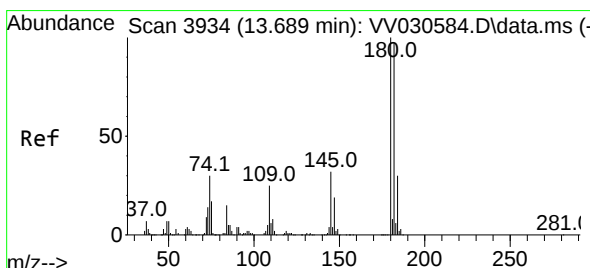
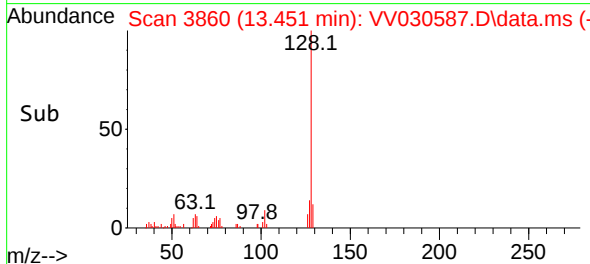
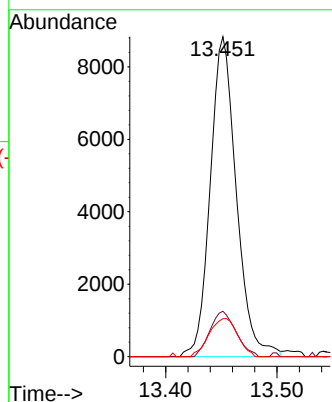
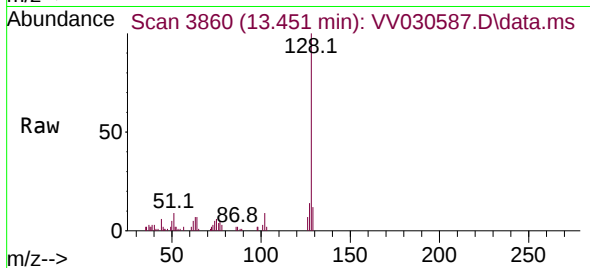
Tgt Ion:	128	Resp:	1438
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.7	16.1
129	13.0	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/18/2023

Supervised By :Mahesh Dadoda 04/18/2023



#72

1,2,3-Trichlorobenzene

Concen: 2.132 ug/L

RT: 13.692 min Scan# 3935

Delta R.T. 0.003 min

Lab File: VV030587.D

Acq: 17 Apr 2023 14:36

Tgt Ion:	180	Resp:	5410
Ion Ratio	Lower	Upper	
180	100		
182	95.2	76.2	114.4
145	35.5	25.1	37.7

