

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071323\
 Data File : VX036520.D
 Acq On : 13 Jul 2023 12:12
 Operator : JC/MD
 Sample : 03573-02 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT3-2023-06

Quant Time: Jul 14 07:40:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML071223WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 14 07:34:36 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	295358	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	266109	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	129989	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	106492	50.547	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.100%
7) Chloroethane-d5	1.666	69	97078	41.939	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.880%
11) 1,1-Dichloroethene-d2	2.307	65	45264	50.353	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.700%
21) 2-Butanone-d5	4.459	46	155097	105.409	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.410%
24) Chloroform-d	5.062	84	177999	46.525	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.040%
26) 1,2-Dichloroethane-d4	5.952	65	129777	49.664	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.320%
32) Benzene-d6	5.977	84	386084	51.247	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.500%
36) 1,2-Dichloropropane-d6	7.312	67	124874	52.290	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.580%
41) Toluene-d8	8.647	98	365023	50.755	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.500%
43) trans-1,3-Dichloroprop...	8.952	79	54082	47.566	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.140%
47) 2-Hexanone-d5	9.384	63	112345	106.959	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.960%
56) 1,1,2,2-Tetrachloroeth...	11.189	84	165321	52.619	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.240%
66) 1,2-Dichlorobenzene-d4	12.323	152	128306	51.960	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.920%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	4841	2.350	ug/L	98
3) Chloromethane	1.301	50	6024	2.473	ug/L	92
5) Vinyl chloride	1.380	62	6559	2.596	ug/L #	58
6) Bromomethane	1.612	94	5690	2.384	ug/L	99
8) Chloroethane	1.685	64	3748	2.026	ug/L	98
9) Trichlorofluoromethane	1.886	101	10095	2.525	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.331	101	6244	3.298	ug/L #	84
12) 1,1-Dichloroethene	2.319	96	5414	2.924	ug/L #	1
13) Acetone	2.386	43	5227	4.684	ug/L	97
14) Carbon disulfide	2.514	76	10974	2.210	ug/L #	92
15) Methyl Acetate	2.703	43	5499	2.479	ug/L	98
16) Methylene chloride	2.788	84	5862	2.869	ug/L	88
17) trans-1,2-Dichloroethene	3.093	96	4163	2.232	ug/L	90
18) Methyl tert-butyl Ether	3.111	73	14528	2.241	ug/L	99
19) 1,1-Dichloroethane	3.611	63	7973	2.185	ug/L #	87
20) cis-1,2-Dichloroethene	4.495	96	5107	2.343	ug/L #	81
22) 2-Butanone	4.574	43	7797m	4.805	ug/L	
23) Bromochloromethane	4.910	128	2320	2.129	ug/L #	90
25) Chloroform	5.099	83	21106	5.508	ug/L	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	6.092	62	7148m	2.358	ug/L	
29) Cyclohexane	5.471	56	7484	2.543	ug/L #	91
30) 1,1,1-Trichloroethane	5.385	97	7351	2.377	ug/L	97
31) Carbon tetrachloride	5.678	117	5758	2.222	ug/L	98
33) Benzene	6.038	78	18627	2.397	ug/L	100
35) Methylcyclohexane	7.379	83	7988	2.588	ug/L	98
37) 1,2-Dichloropropane	7.434	63	5113	2.393	ug/L #	94
38) Bromodichloromethane	7.824	83	5312	1.994	ug/L	90
39) cis-1,3-Dichloropropene	8.366	75	7778	2.311	ug/L	94
40) 4-Methyl-2-pentanone	8.574	43	13882	4.662	ug/L	97
42) Toluene	8.720	91	19807	2.396	ug/L	95
44) trans-1,3-Dichloropropene	8.982	75	7473m	2.411	ug/L	
45) 1,1,2-Trichloroethane	9.159	97	4971	2.448	ug/L	78
46) Tetrachloroethene	9.275	164	3519	2.337	ug/L	96
48) 2-Hexanone	9.433	43	11234	4.828	ug/L	96
49) Dibromochloromethane	9.519	129	4372	2.145	ug/L	88
50) 1,2-Dibromoethane	9.610	107	4759	2.187	ug/L	91
51) Chlorobenzene	10.079	112	12705	2.364	ug/L	97
52) Ethylbenzene	10.195	91	20906	2.298	ug/L	99
53) m,p-Xylene	10.305	106	8372	2.412	ug/L	92
54) o-Xylene	10.640	106	7947	2.308	ug/L	93
55) Styrene	10.659	104	12110	2.110	ug/L	95
57) 1,1,2,2-Tetrachloroethane	11.213	83	7995	2.535	ug/L #	97
59) Bromoform	10.805	173	2828	1.990	ug/L #	98
60) Isopropylbenzene	10.963	105	20857	2.387	ug/L	97
61) 1,2,3-Trichloropropane	11.238	75	6261	2.551	ug/L	95
62) 1,3,5-Trimethylbenzene	11.451	105	15830	2.168	ug/L	97
63) 1,2,4-Trimethylbenzene	11.750	105	15938	2.176	ug/L	99
64) 1,3-Dichlorobenzene	11.969	146	9015	2.306	ug/L	97
65) 1,4-Dichlorobenzene	12.043	146	9476	2.401	ug/L	91
67) 1,2-Dichlorobenzene	12.335	146	9524	2.455	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.939	75	1543	2.360	ug/L #	62
69) 1,3,5-Trichlorobenzene	13.116	180	5920	2.282	ug/L	96
70) 1,2,4-trichlorobenzene	13.591	180	5261	2.150	ug/L	91
71) Naphthalene	13.774	128	16994	2.035	ug/L	98
72) 1,2,3-Trichlorobenzene	13.963	180	5542	2.324	ug/L	95

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

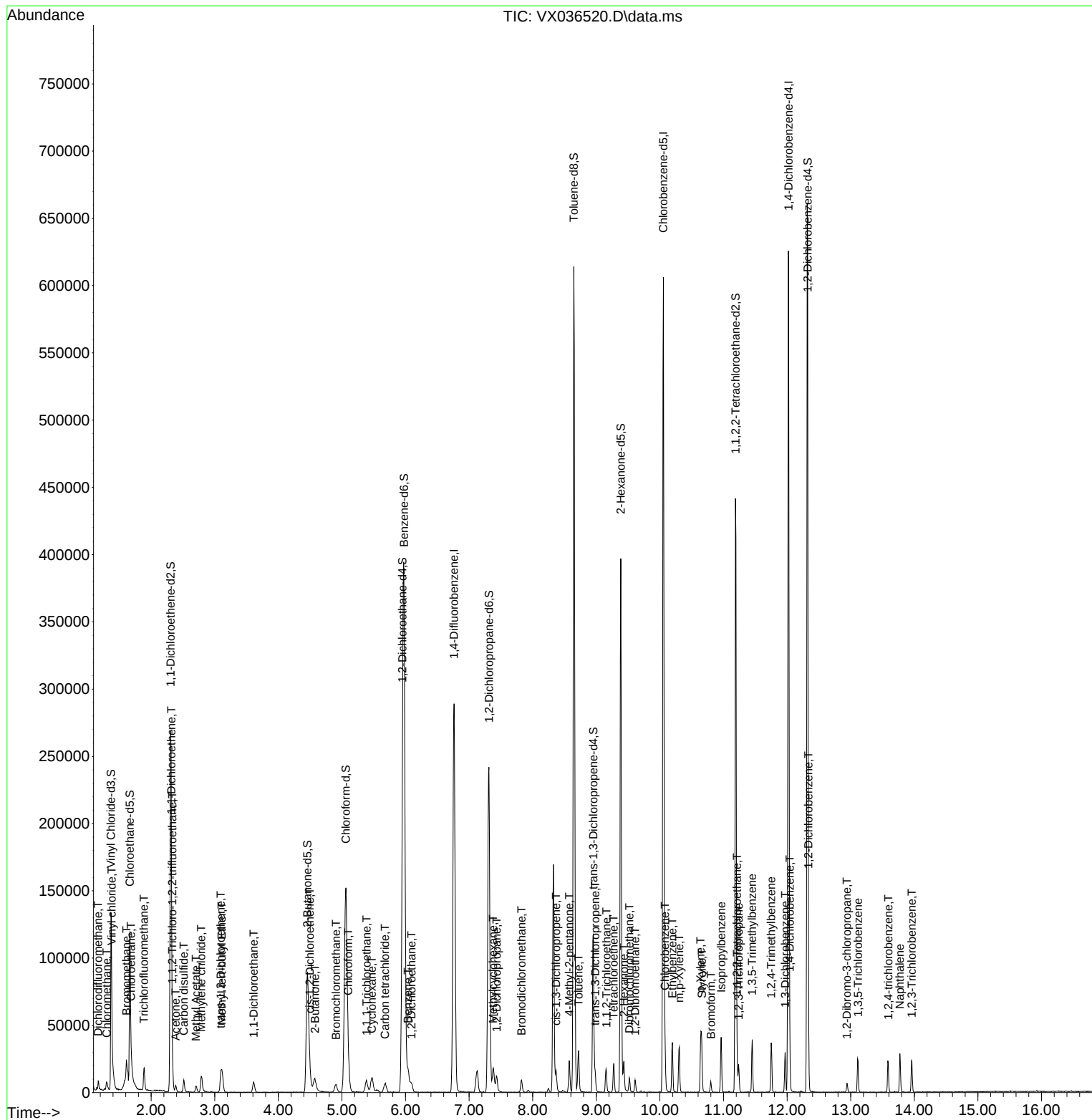
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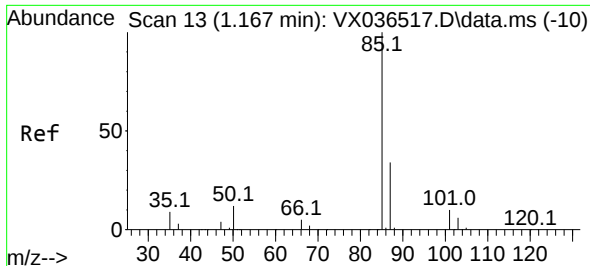
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML071223WMA.M
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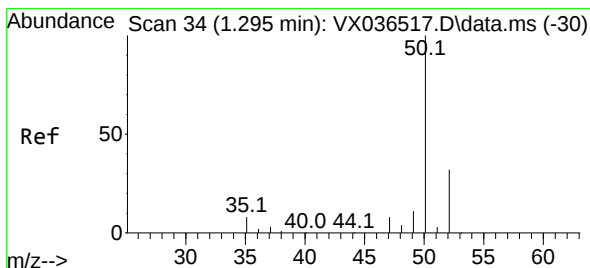
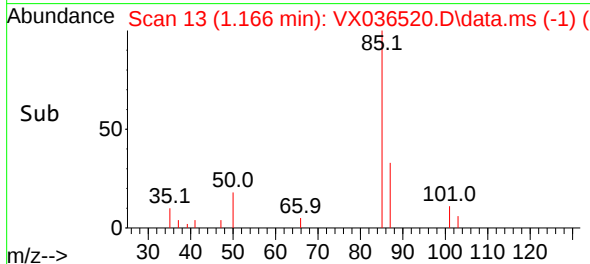
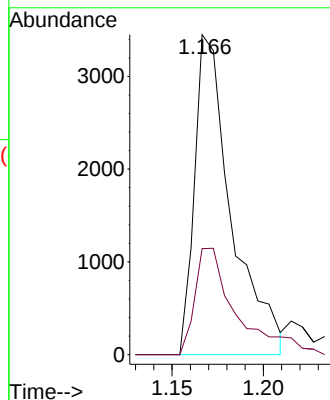
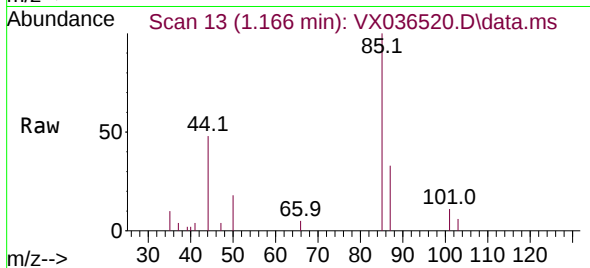
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Dichlorodifluoromethane
Concen: 2.350 ug/L
RT: 1.166 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument : MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06

Tgt Ion: 85 Resp: 484
Ion Ratio Lower Upper
85 100
87 33.8 26.3 39.5

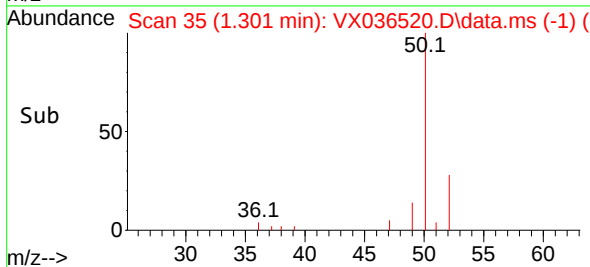
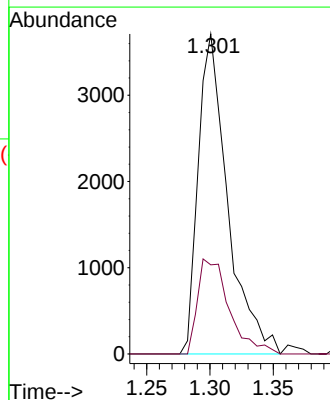
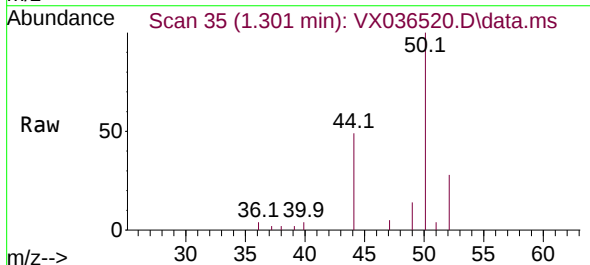
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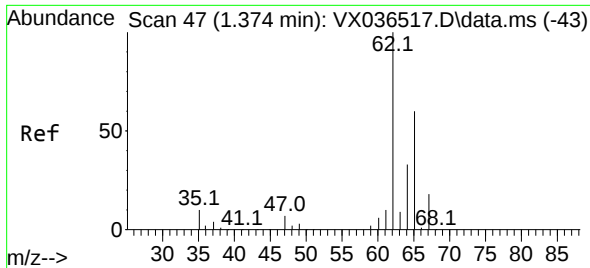
Reviewed By :John Carlone 07/14/2023
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#3
Chloromethane
Concen: 2.473 ug/L
RT: 1.301 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion: 50 Resp: 6024
Ion Ratio Lower Upper
50 100
52 27.9 22.8 42.4





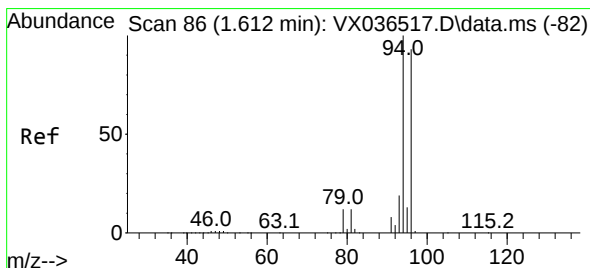
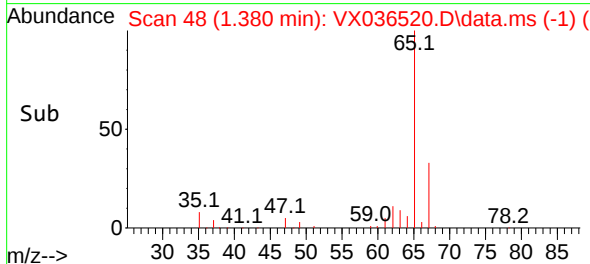
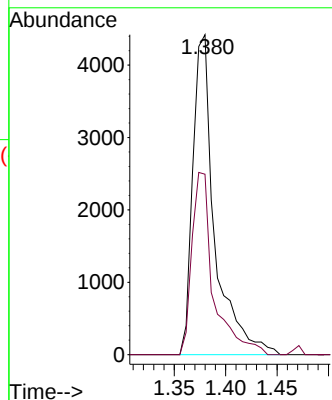
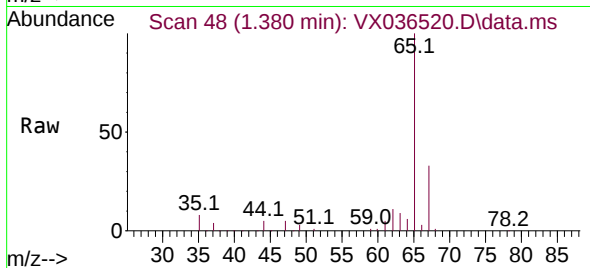
#5
 Vinyl chloride
 Concen: 2.596 ug/L
 RT: 1.380 min Scan# 47
 Delta R.T. 0.006 min
 Lab File: VX036520.D
 Acq: 13 Jul 2023 12:12

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-QT3-2023-06

Tgt Ion: 62 Resp: 6559
 Ion Ratio Lower Upper
 62 100
 64 56.4 22.8 42.4

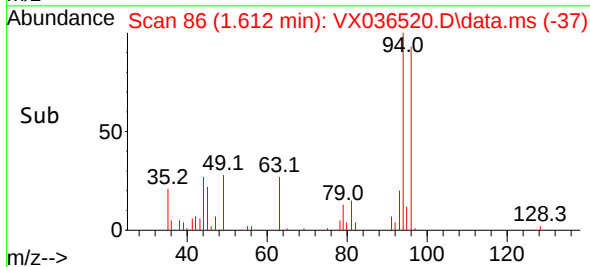
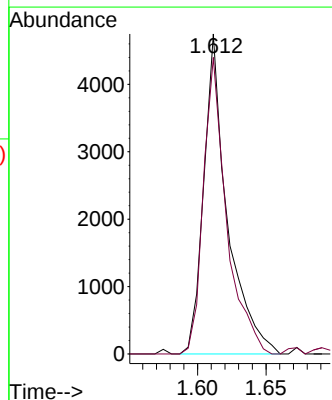
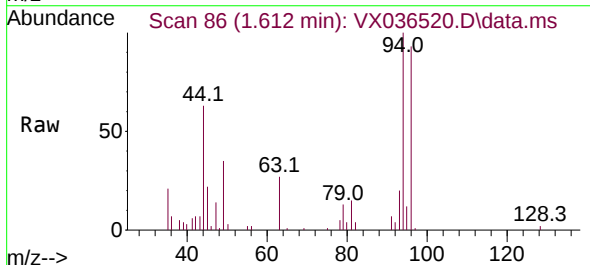
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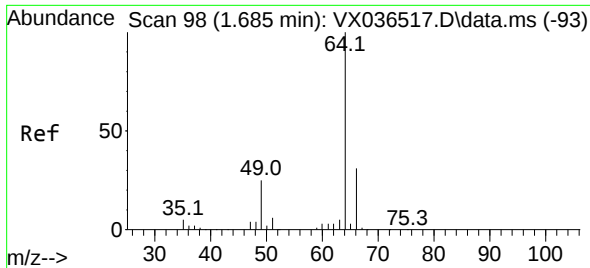
Reviewed By :John Carlone 07/14/2023
 Supervised By :Semsettin Yesilyurt 07/14/2023



#6
 Bromomethane
 Concen: 2.384 ug/L
 RT: 1.612 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: VX036520.D
 Acq: 13 Jul 2023 12:12

Tgt Ion: 94 Resp: 5690
 Ion Ratio Lower Upper
 94 100
 96 92.6 64.5 119.7





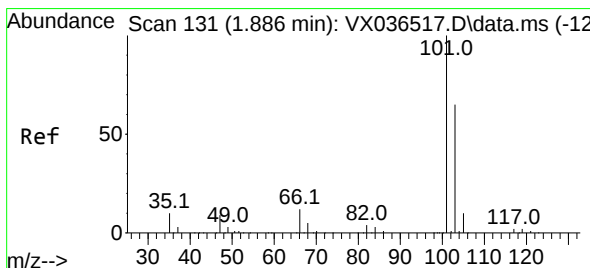
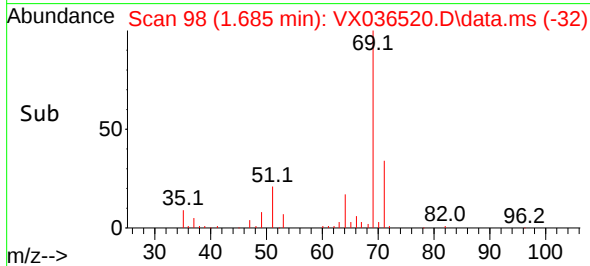
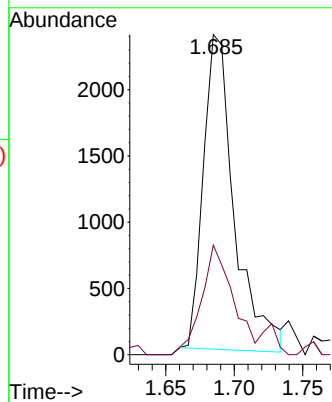
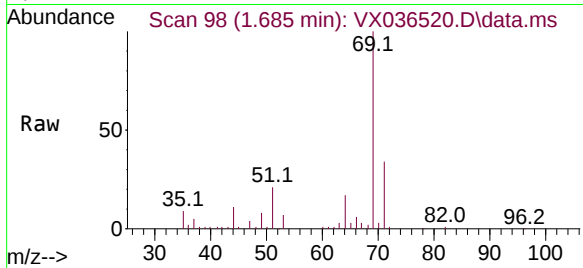
#8
Chloroethane
Concen: 2.026 ug/L
RT: 1.685 min Scan# 98
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument : MSVOA_X
ClientSampleId : MDL-WATER-QT3-2023-06

Tgt Ion: 64 Resp: 3748
Ion Ratio Lower Upper
64 100
66 34.3 23.0 42.8

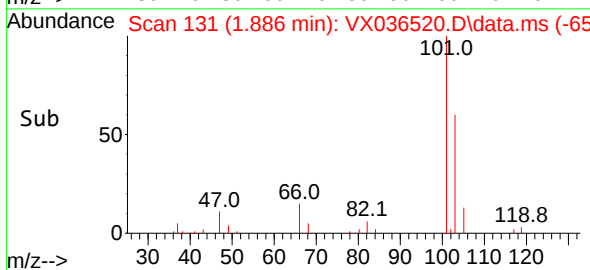
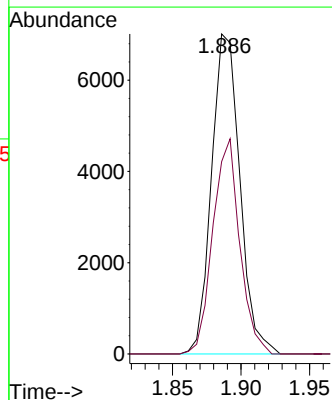
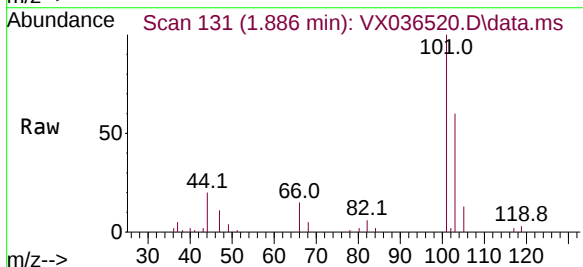
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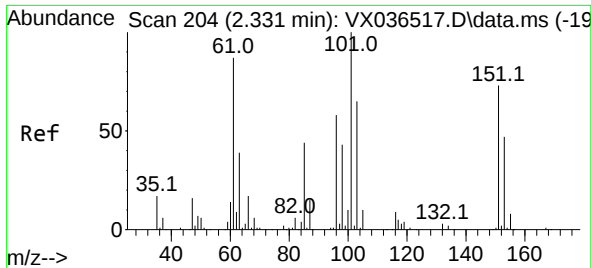
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#9
Trichlorofluoromethane
Concen: 2.525 ug/L
RT: 1.886 min Scan# 131
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion:101 Resp: 10095
Ion Ratio Lower Upper
101 100
103 63.8 51.7 77.5





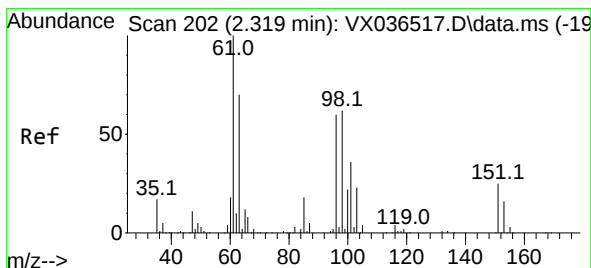
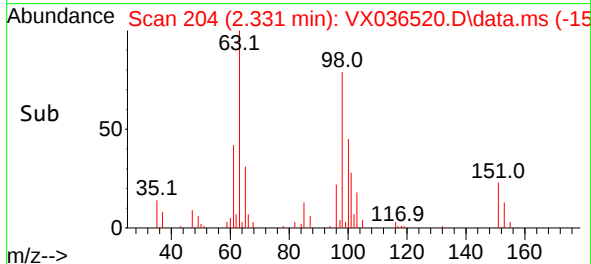
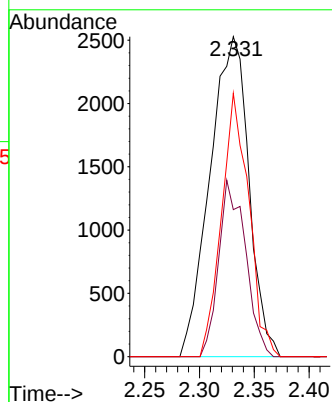
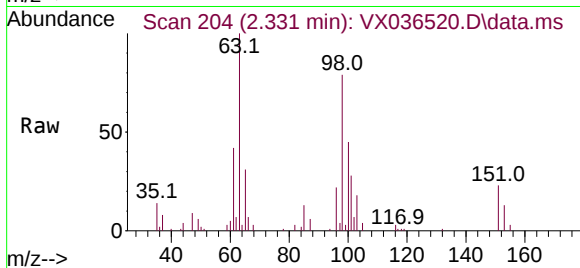
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.298 ug/L
RT: 2.331 min Scan# 204
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :
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Tgt Ion:101 Resp: 6244
Ion Ratio Lower Upper
101 100
85 38.0 35.8 53.8
151 57.8 59.8 89.6

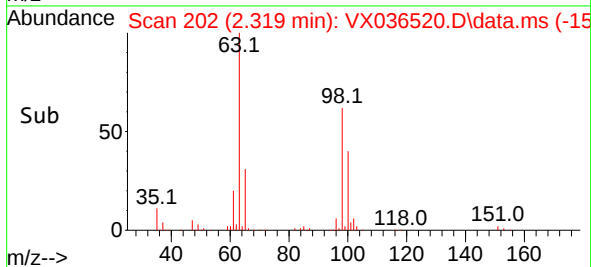
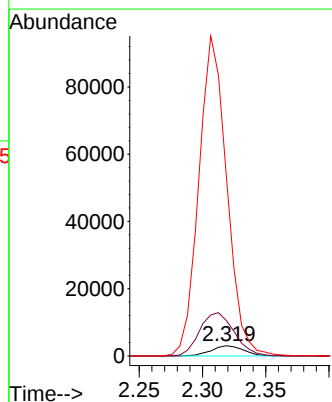
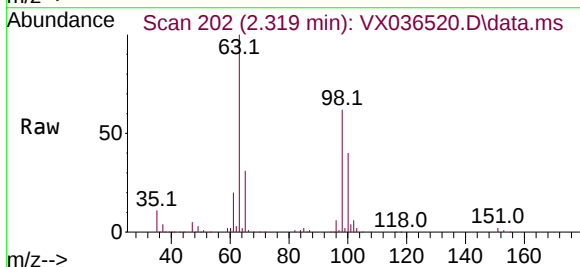
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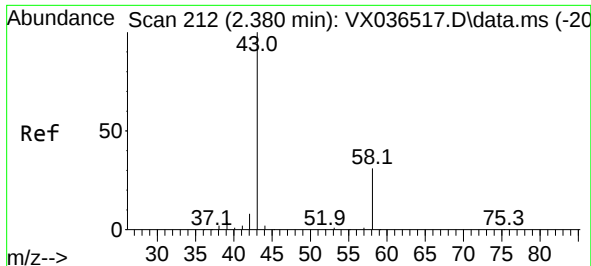
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#12
1,1-Dichloroethene
Concen: 2.924 ug/L
RT: 2.319 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

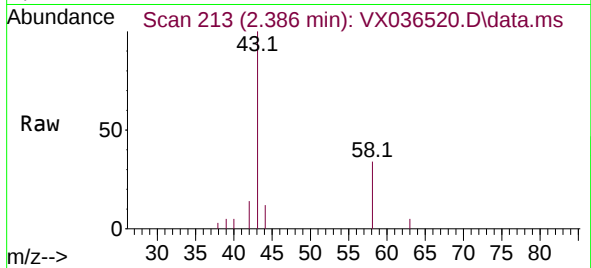
Tgt Ion: 96 Resp: 5414
Ion Ratio Lower Upper
96 100
61 346.8 115.3 214.1#
63 1773.3 76.3 141.7#





#13
Acetone
Concen: 4.684 ug/L
RT: 2.386 min Scan# 212
Delta R.T. 0.006 min
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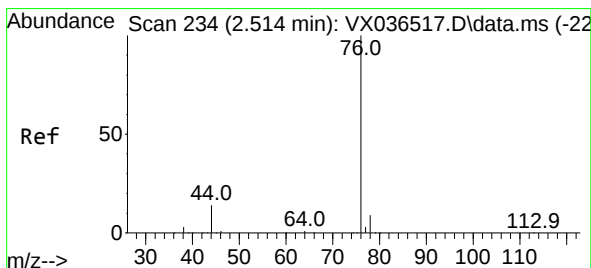
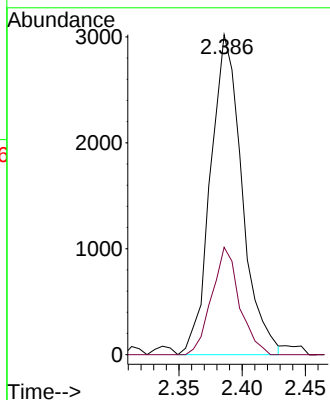
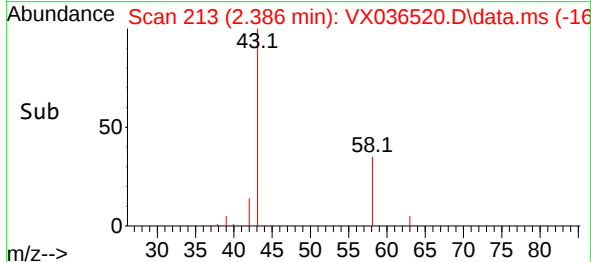
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Tgt Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
58 29.5 0.0 62.6

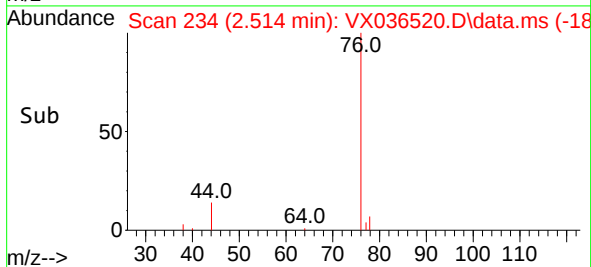
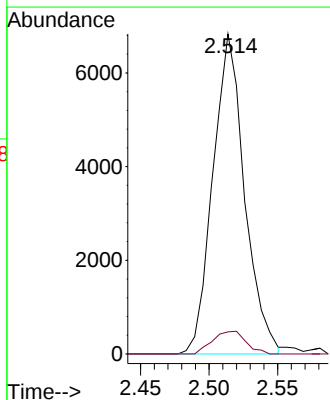
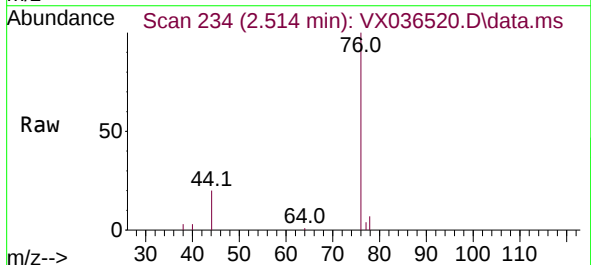
Manual Integrations
APPROVED

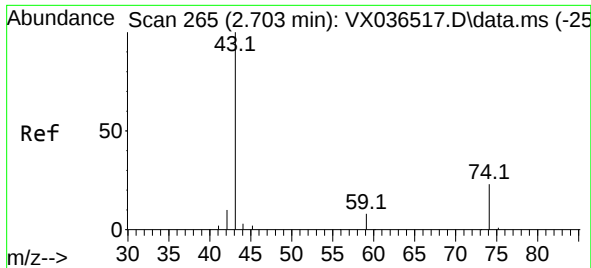
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#14
Carbon disulfide
Concen: 2.210 ug/L
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

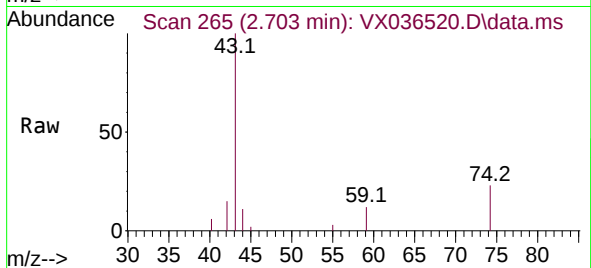
Tgt Ion: 76 Resp: 10974
Ion Ratio Lower Upper
76 100
78 6.9 7.8 11.6#





#15
Methyl Acetate
Concen: 2.479 ug/L
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

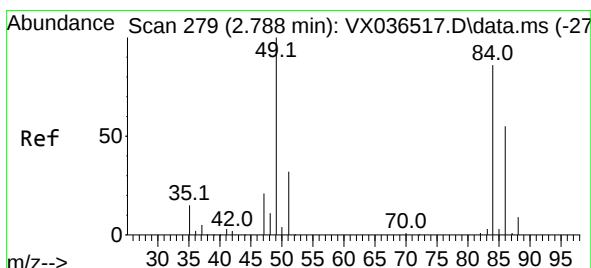
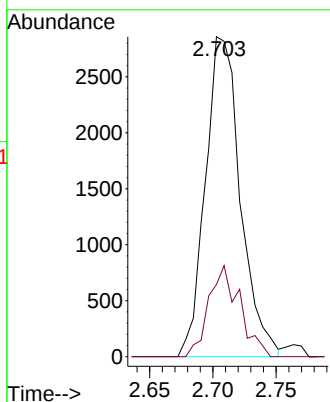
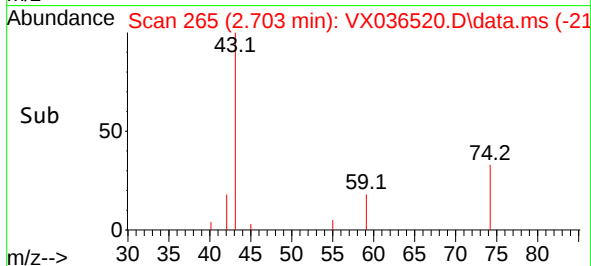
Instrument : MSVOA_X
ClientSampleId : MDL-WATER-QT3-2023-06



Tgt Ion: 43 Resp: 5499
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.0

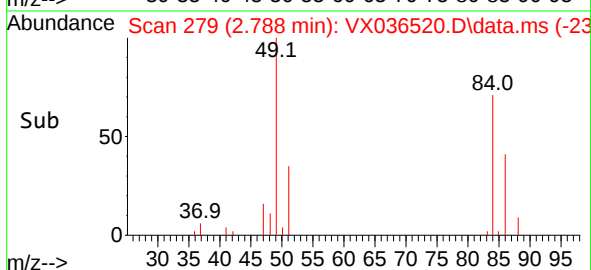
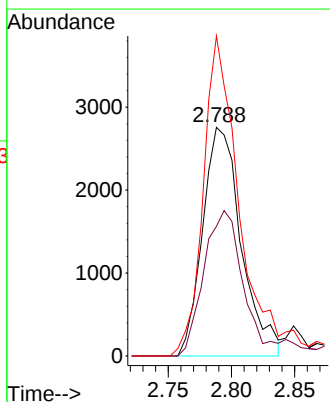
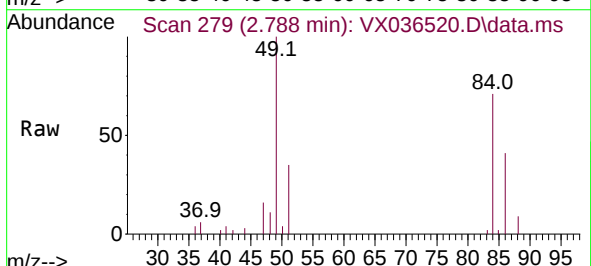
Manual Integrations
APPROVED

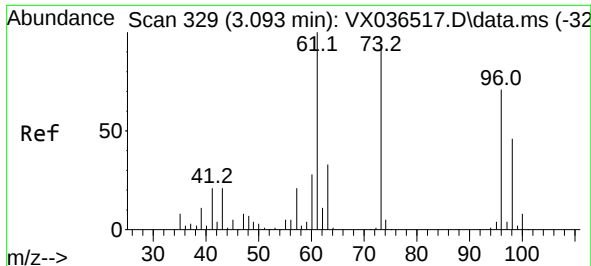
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#16
Methylene chloride
Concen: 2.869 ug/L
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

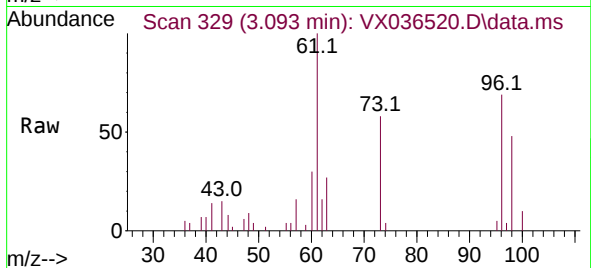
Tgt Ion: 84 Resp: 5862
Ion Ratio Lower Upper
84 100
86 56.7 45.9 85.3
49 139.9 87.6 162.8





#17
trans-1,2-Dichloroethene
Concen: 2.232 ug/L
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

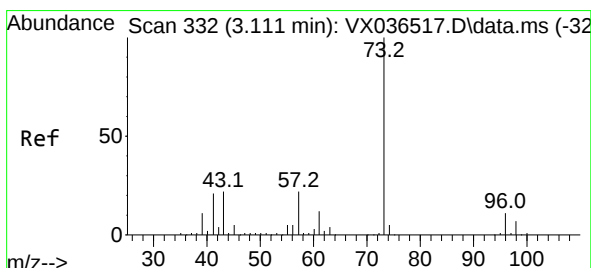
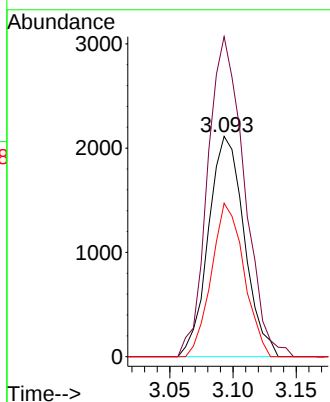
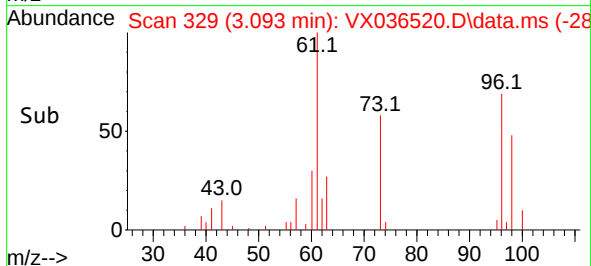
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06



Tgt Ion: 96 Resp: 416
Ion Ratio Lower Upper
96 100
61 145.2 93.7 174.1
98 69.6 42.9 79.7

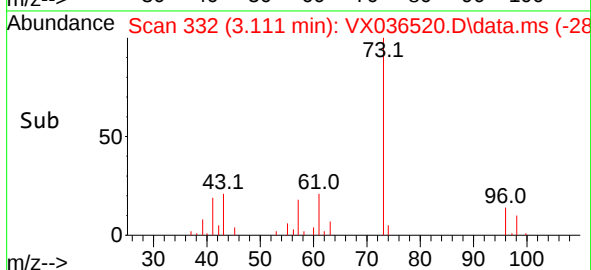
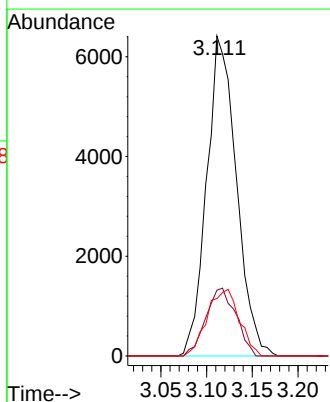
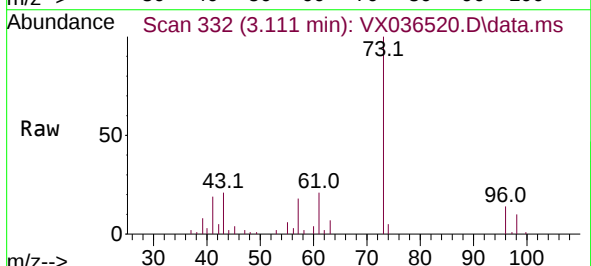
Manual Integrations
APPROVED

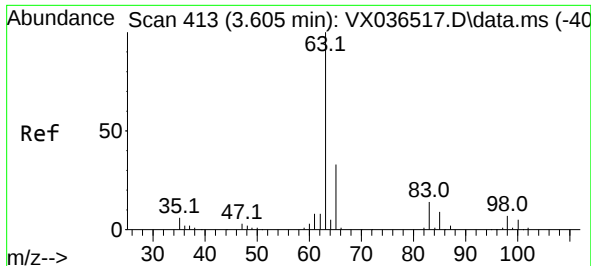
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#18
Methyl tert-butyl Ether
Concen: 2.241 ug/L
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion: 73 Resp: 14528
Ion Ratio Lower Upper
73 100
43 21.4 17.0 25.6
57 22.5 17.4 26.0





#19

1,1-Dichloroethane

Concen: 2.185 ug/L

RT: 3.611 min Scan# 413

Delta R.T. 0.006 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

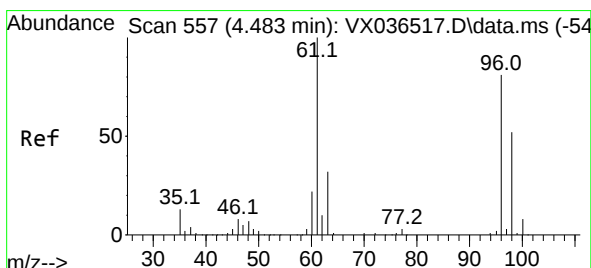
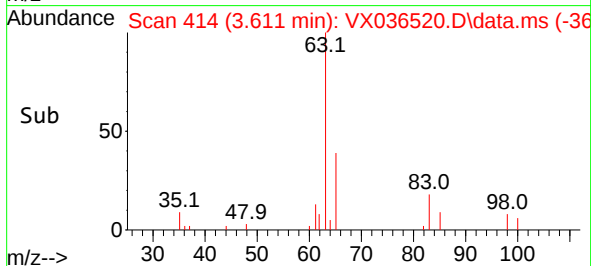
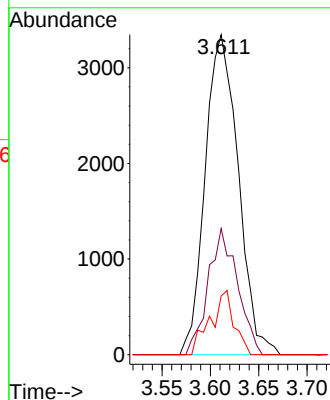
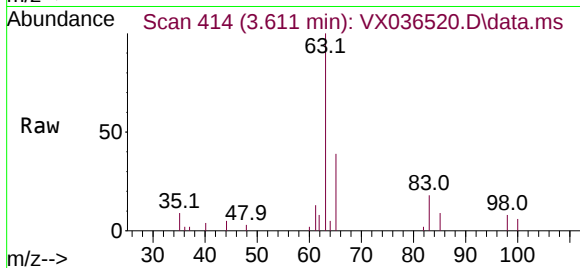
Tgt Ion: 63	Resp: 797
Ion Ratio	Lower Upper
63 100	
65 39.4	22.3 41.3
83 18.4	9.3 17.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#20

cis-1,2-Dichloroethene

Concen: 2.343 ug/L

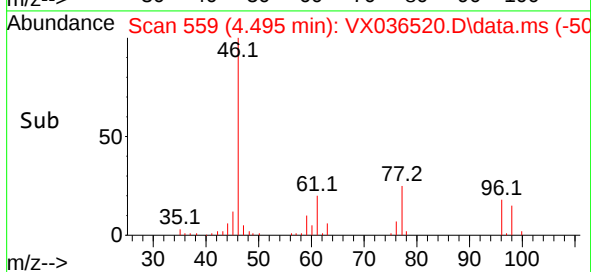
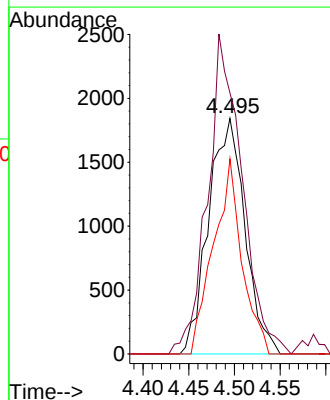
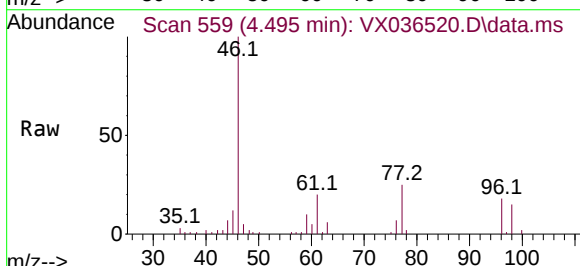
RT: 4.495 min Scan# 559

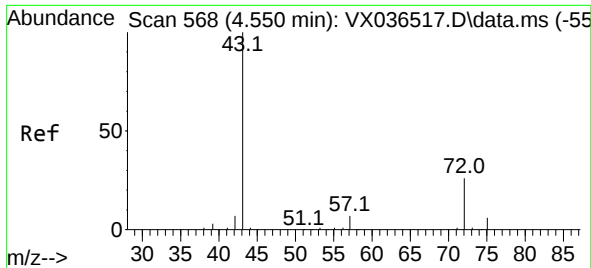
Delta R.T. 0.012 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

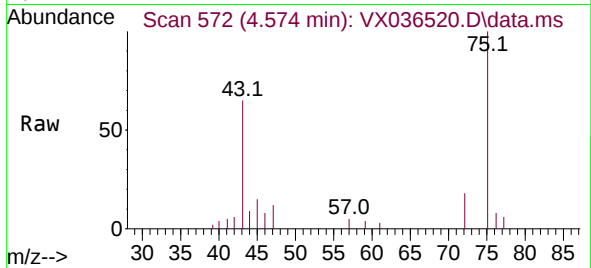
Tgt Ion: 96	Resp: 5107
Ion Ratio	Lower Upper
96 100	
61 110.8	90.1 167.3
98 82.9	44.1 81.9





#22
2-Butanone
Concen: 4.805 ug/L m
RT: 4.574 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

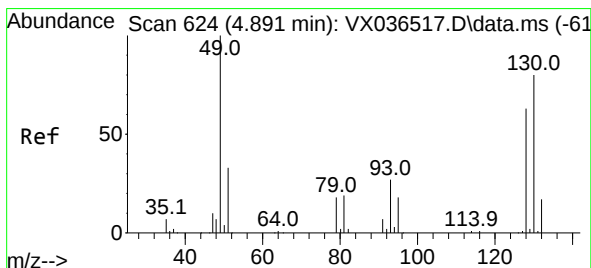
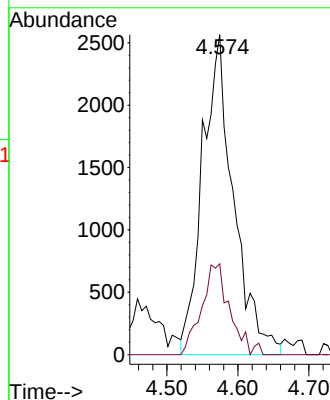
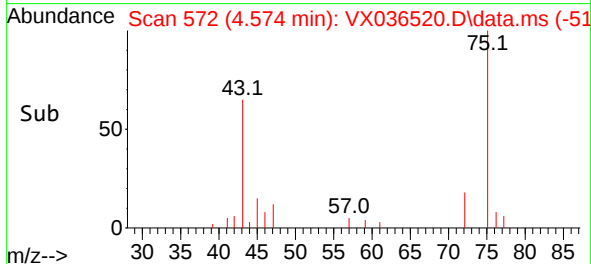
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06



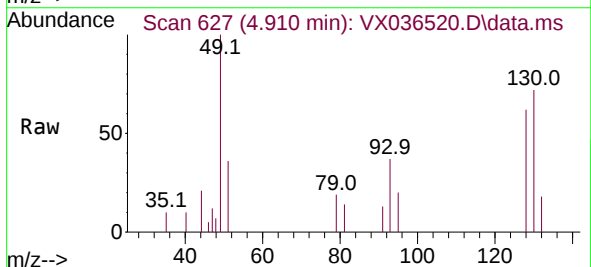
Tgt Ion: 43 Resp: 779
Ion Ratio Lower Upper
43 100
72 24.3 13.8 41.3

Manual Integrations
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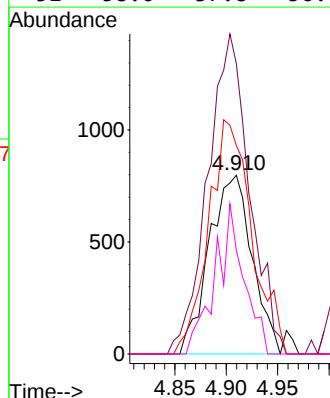
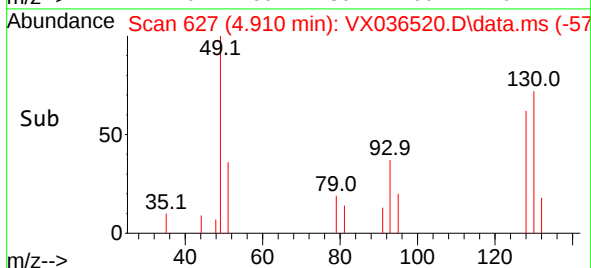
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023

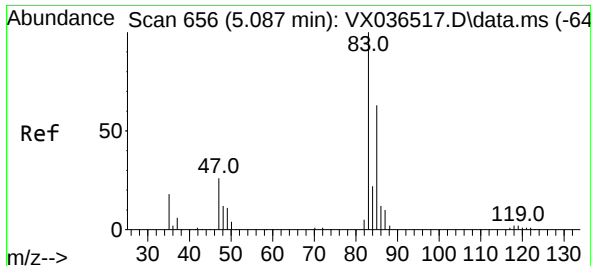


#23
Bromochloromethane
Concen: 2.129 ug/L
RT: 4.910 min Scan# 627
Delta R.T. 0.018 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12



Tgt Ion:128 Resp: 2320
Ion Ratio Lower Upper
128 100
49 162.4 105.8 196.4
130 116.7 88.1 163.7
51 58.0 37.8 56.6#





#25

Chloroform

Concen: 5.508 ug/L

RT: 5.099 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion: 83 Resp: 21100

Ion Ratio Lower Upper

83 100

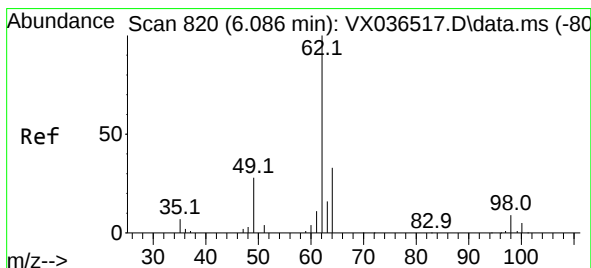
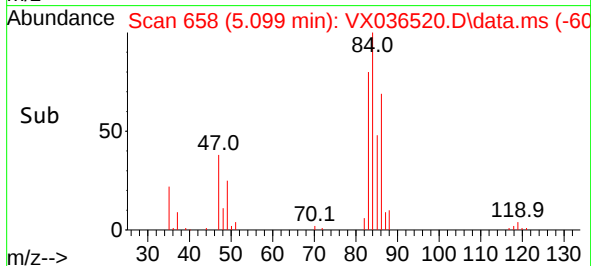
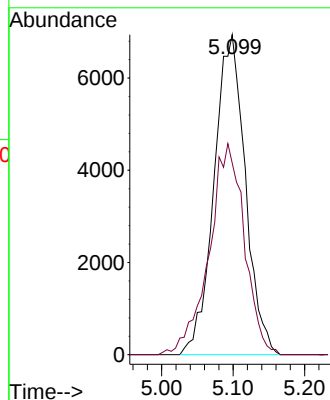
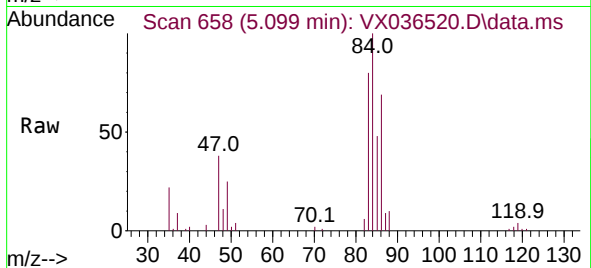
85 59.9 46.8 87.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#27

1,2-Dichloroethane

Concen: 2.358 ug/L m

RT: 6.092 min Scan# 821

Delta R.T. 0.006 min

Lab File: VX036520.D

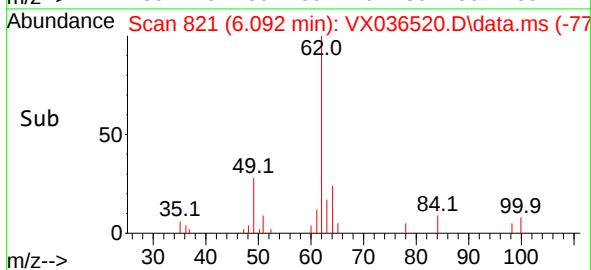
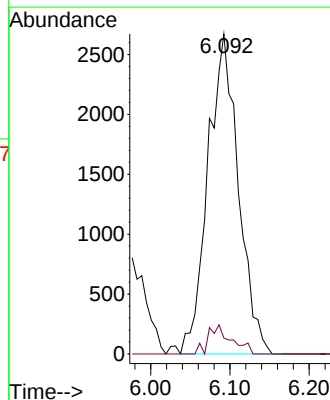
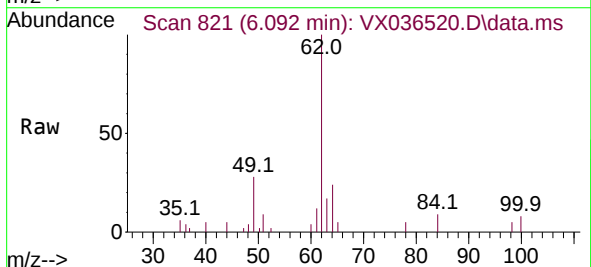
Acq: 13 Jul 2023 12:12

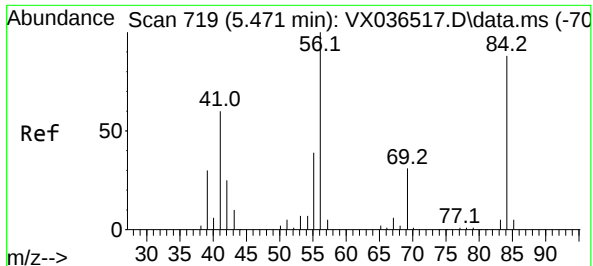
Tgt Ion: 62 Resp: 7148

Ion Ratio Lower Upper

62 100

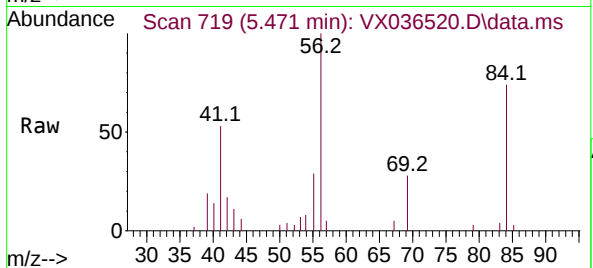
98 4.9 6.5 9.7#





#29
Cyclohexane
Concen: 2.543 ug/L
RT: 5.471 min Scan# 719
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

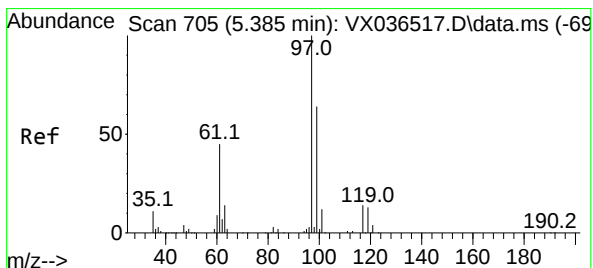
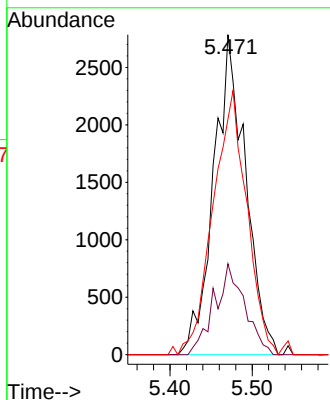
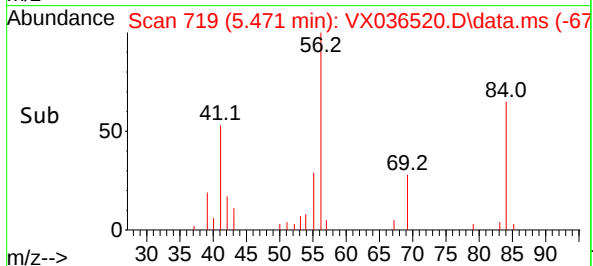
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06



Tgt Ion: 56 Resp: 7484
Ion Ratio Lower Upper
56 100
69 19.3 25.3 37.9
84 87.2 73.0 109.4

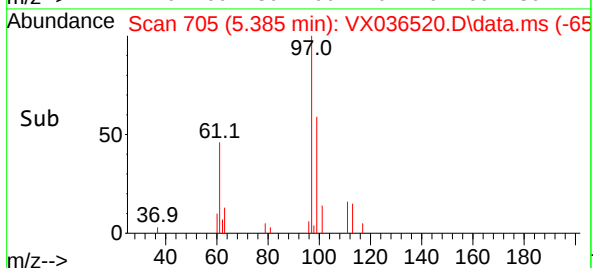
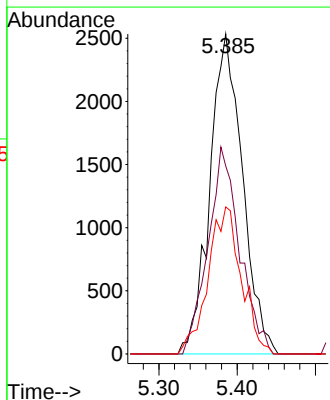
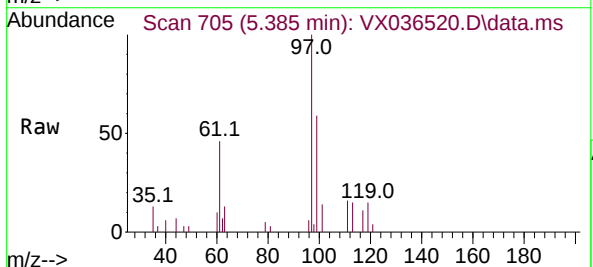
Manual Integrations
APPROVED

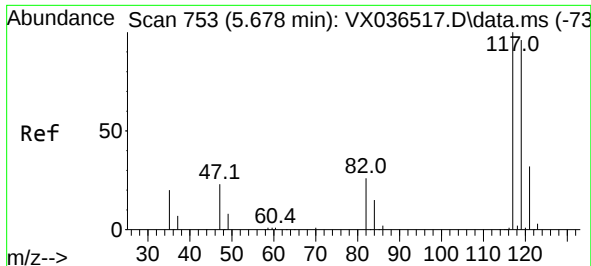
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#30
1,1,1-Trichloroethane
Concen: 2.377 ug/L
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

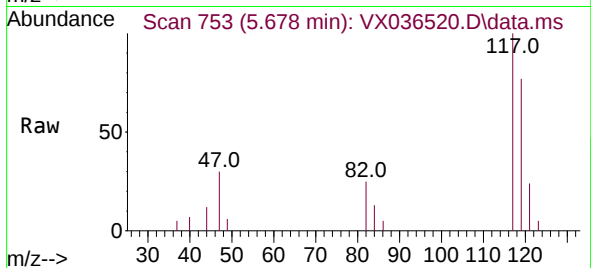
Tgt Ion: 97 Resp: 7351
Ion Ratio Lower Upper
97 100
99 62.8 50.6 76.0
61 46.8 34.7 52.1





#31
Carbon tetrachloride
Concen: 2.222 ug/L
RT: 5.678 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

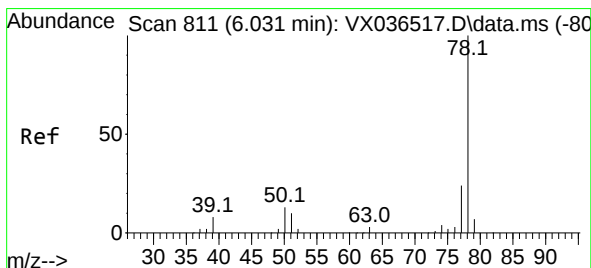
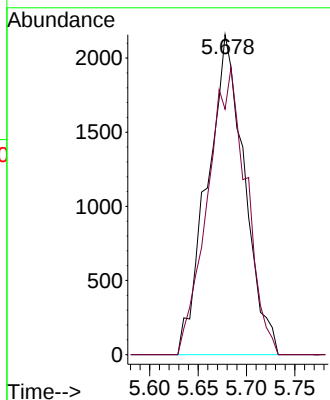
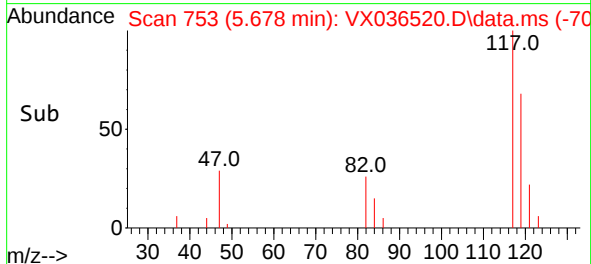
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06



Tgt Ion:117 Resp: 5758
Ion Ratio Lower Upper
117 100
119 93.8 76.6 114.8

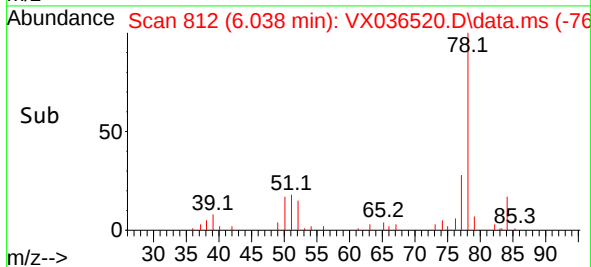
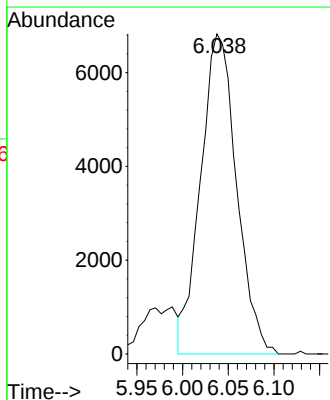
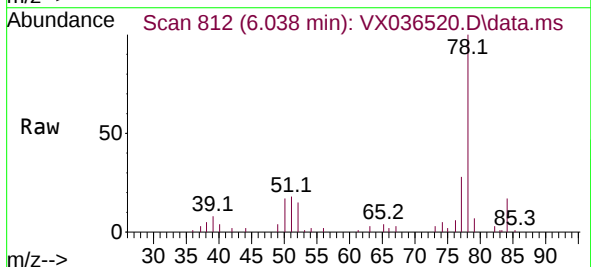
Manual Integrations
APPROVED

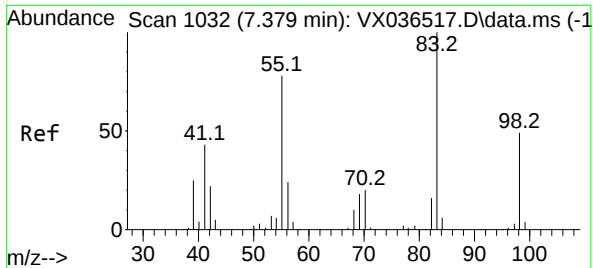
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#33
Benzene
Concen: 2.397 ug/L
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion: 78 Resp: 18627





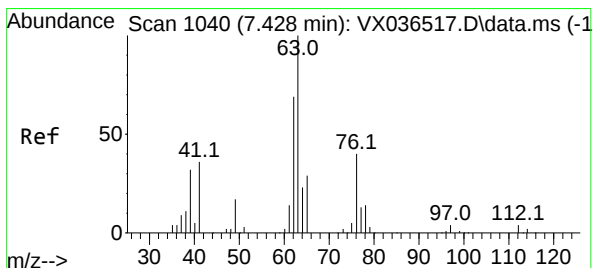
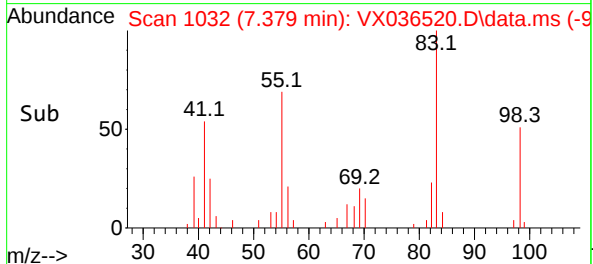
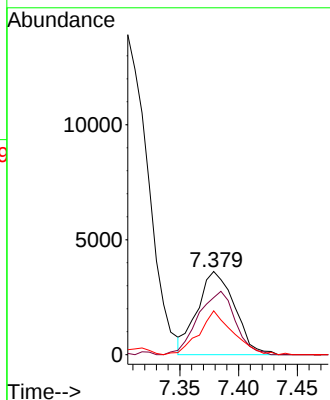
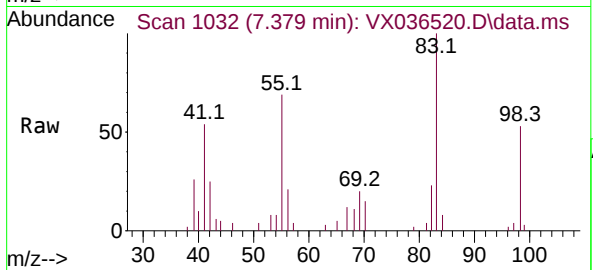
#35
Methylcyclohexane
Concen: 2.588 ug/L
RT: 7.379 min Scan# 1032
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument : MSVOA_X
ClientSampleId : MDL-WATER-QT3-2023-06

Tgt Ion: 83 Resp: 798
Ion Ratio Lower Upper
83 100
55 75.8 59.0 88.4
98 47.6 37.5 56.3

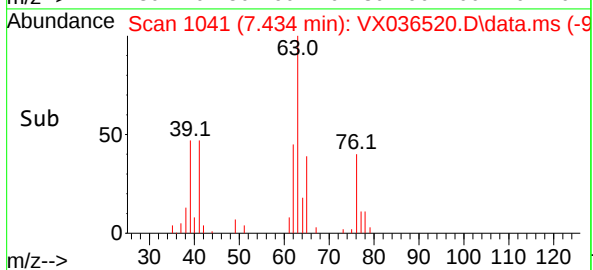
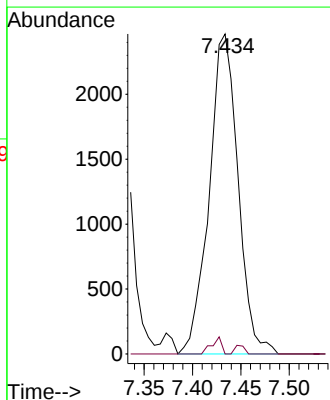
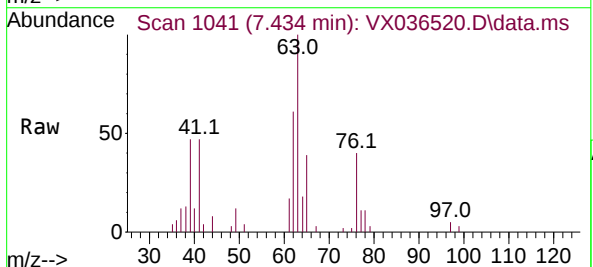
Manual Integrations
APPROVED

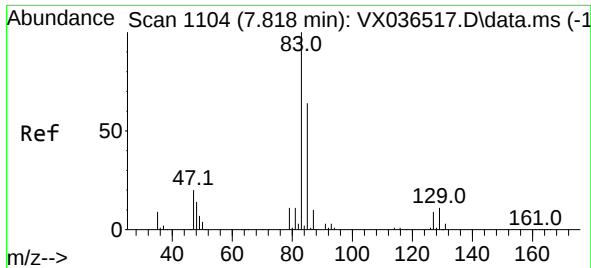
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#37
1,2-Dichloropropane
Concen: 2.393 ug/L
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion: 63 Resp: 5113
Ion Ratio Lower Upper
63 100
112 1.8 3.1 4.7#





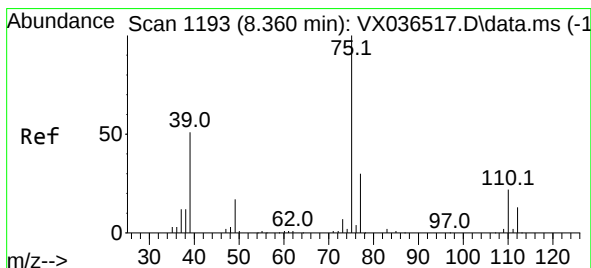
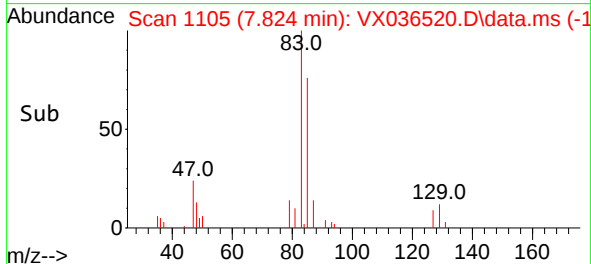
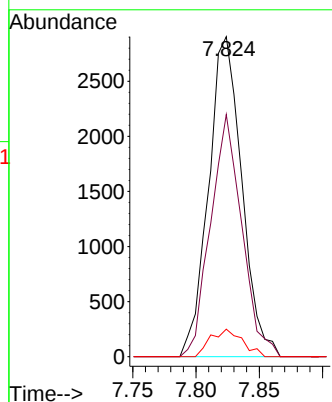
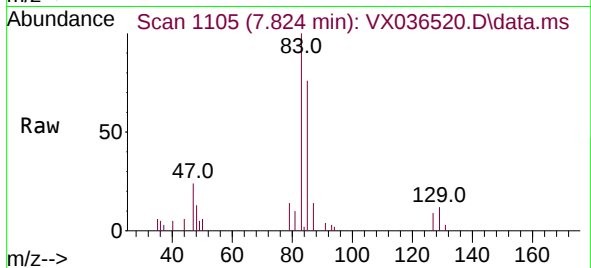
#38
Bromodichloromethane
Concen: 1.994 ug/L
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06

Tgt Ion: 83 Resp: 5312
Ion Ratio Lower Upper
83 100
85 75.6 46.9 87.1
127 8.6 7.2 10.8

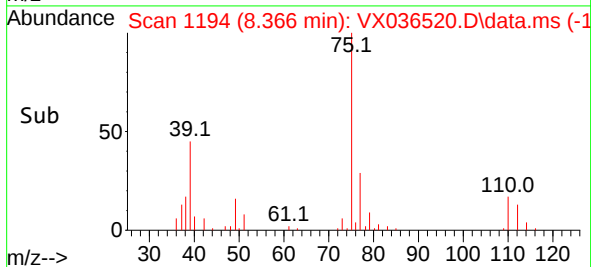
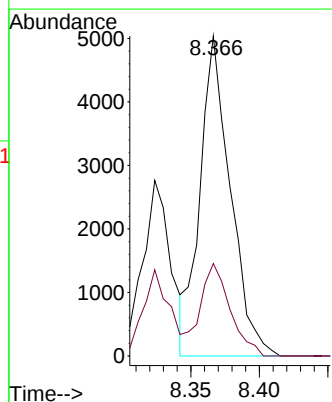
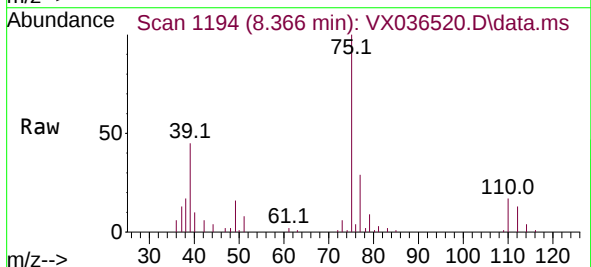
Manual Integrations
APPROVED

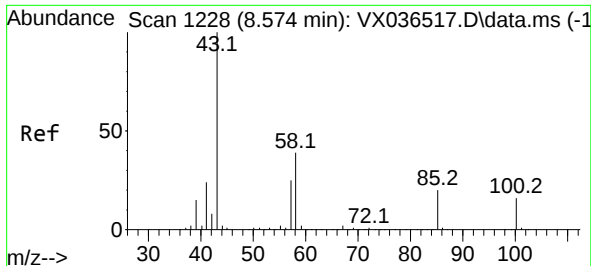
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#39
cis-1,3-Dichloropropene
Concen: 2.311 ug/L
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion: 75 Resp: 7778
Ion Ratio Lower Upper
75 100
77 28.9 22.7 42.1





#40

4-Methyl-2-pentanone

Concen: 4.662 ug/L

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

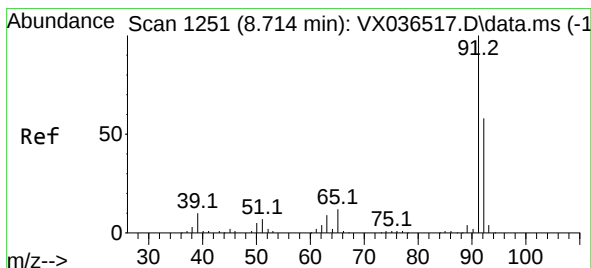
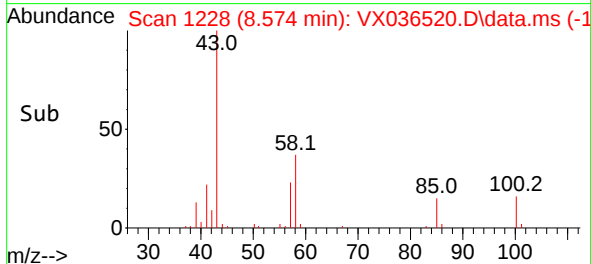
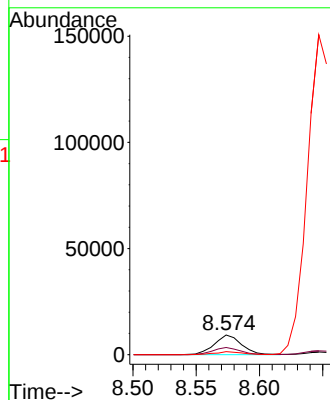
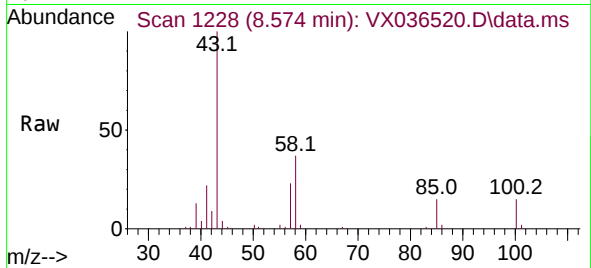
Tgt Ion: 43 Resp: 1388
 Ion Ratio Lower Upper
 43 100
 58 36.8 31.4 47.0
 100 15.5 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#42

Toluene

Concen: 2.396 ug/L

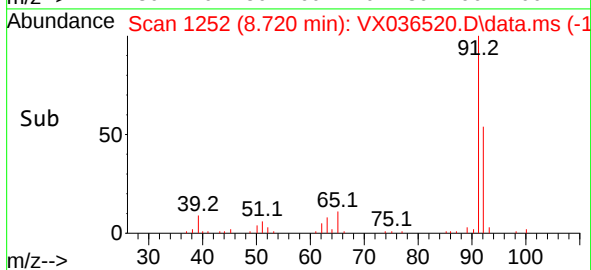
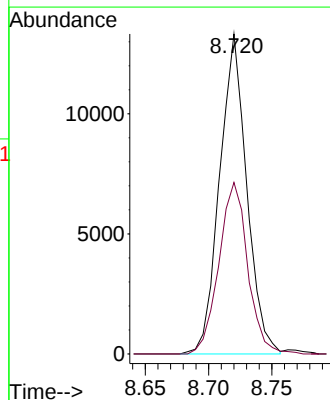
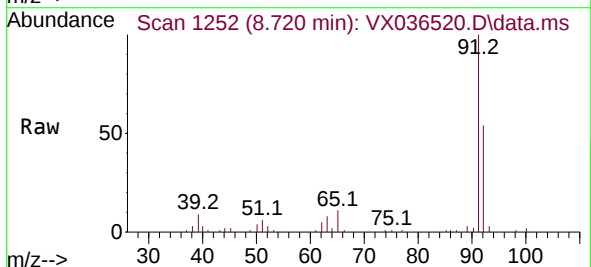
RT: 8.720 min Scan# 1252

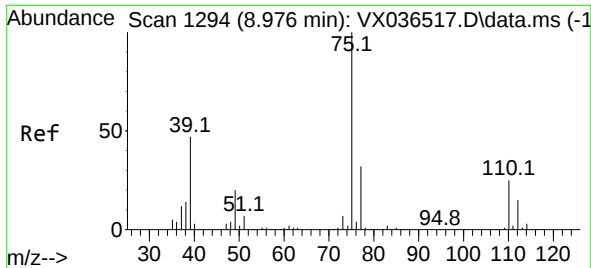
Delta R.T. 0.006 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

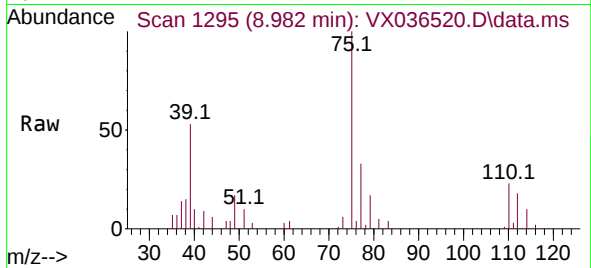
Tgt Ion: 91 Resp: 19807
 Ion Ratio Lower Upper
 91 100
 92 53.6 40.3 74.9





#44
trans-1,3-Dichloropropene
Concen: 2.411 ug/L m
RT: 8.982 min Scan# 1295
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

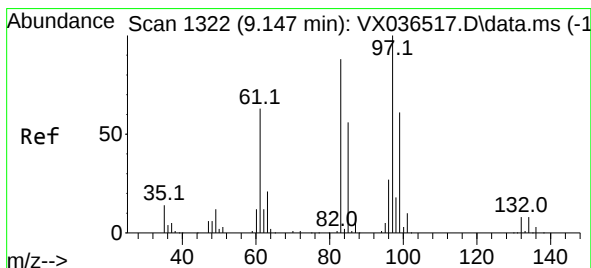
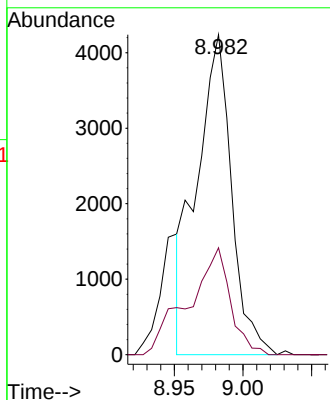
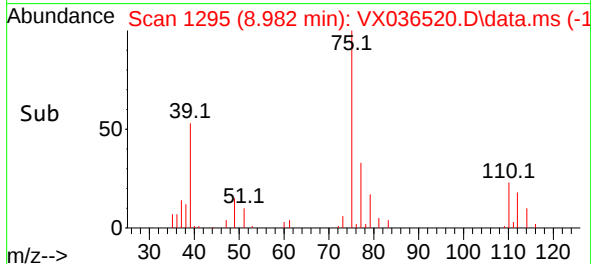
Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06



Tgt Ion: 75 Resp: 747
Ion Ratio Lower Upper
75 100
77 33.4 22.9 42.5

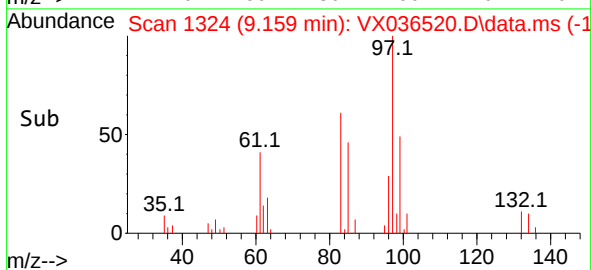
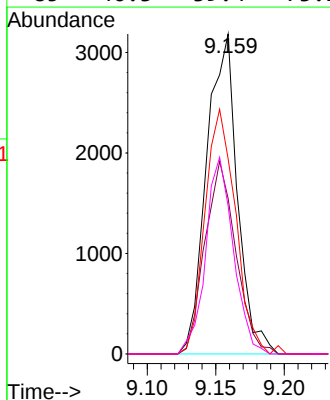
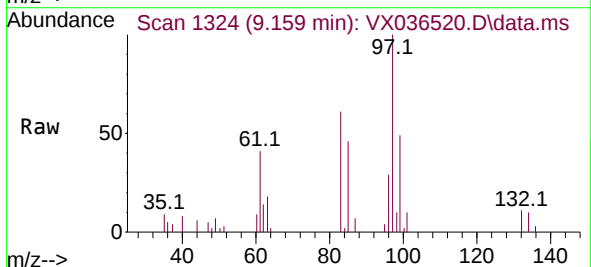
Manual Integrations
APPROVED

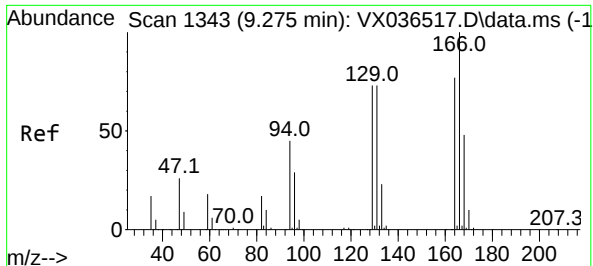
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#45
1,1,2-Trichloroethane
Concen: 2.448 ug/L
RT: 9.159 min Scan# 1324
Delta R.T. 0.012 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

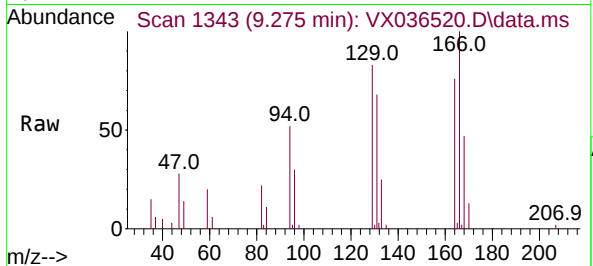
Tgt Ion: 97 Resp: 4971
Ion Ratio Lower Upper
97 100
99 48.6 45.1 83.9
83 61.0 60.6 112.6
85 46.3 39.4 73.2





#46
Tetrachloroethene
Concen: 2.337 ug/L
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

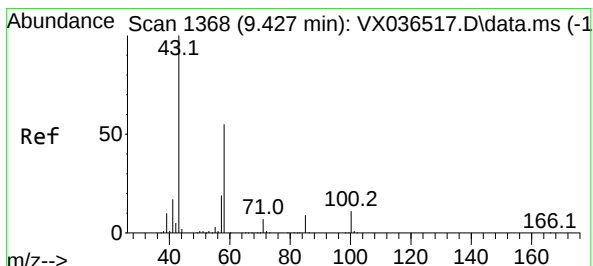
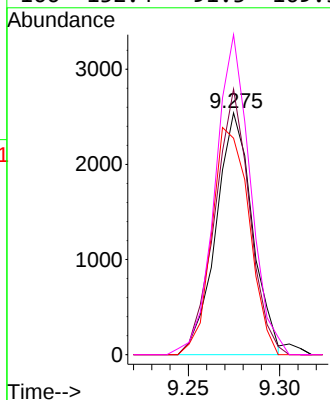
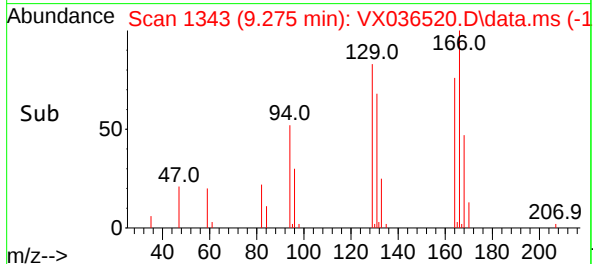
Instrument : MSVOA_X
ClientSampleId : MDL-WATER-QT3-2023-06



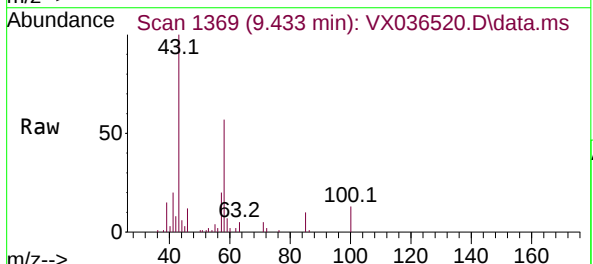
Tgt Ion:164 Resp: 3519
Ion Ratio Lower Upper
164 100
129 109.9 72.0 133.8
131 89.5 65.7 121.9
166 132.4 91.3 169.5

Manual Integrations
APPROVED

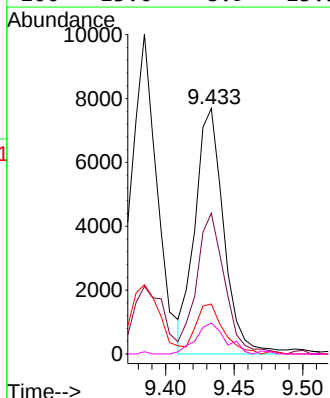
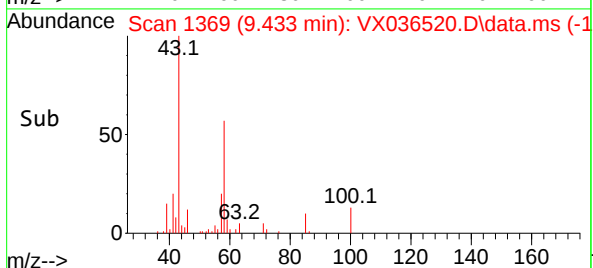
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023

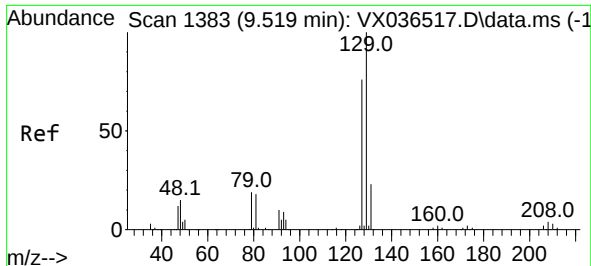


#48
2-Hexanone
Concen: 4.828 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12



Tgt Ion: 43 Resp: 11234
Ion Ratio Lower Upper
43 100
58 56.3 42.5 63.7
57 19.1 15.0 22.4
100 13.0 8.9 13.3





#49

Dibromochloromethane

Concen: 2.145 ug/L

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion:129 Resp: 4372

Ion Ratio Lower Upper

129 100

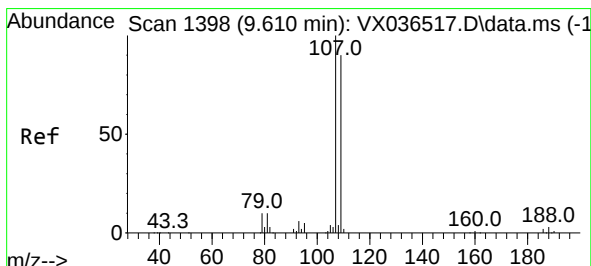
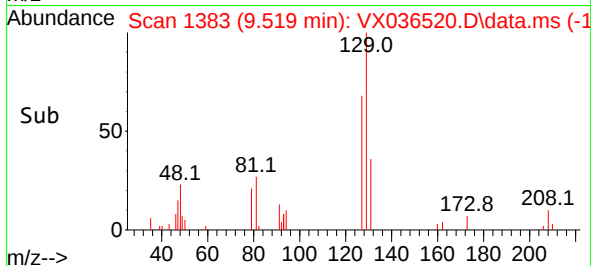
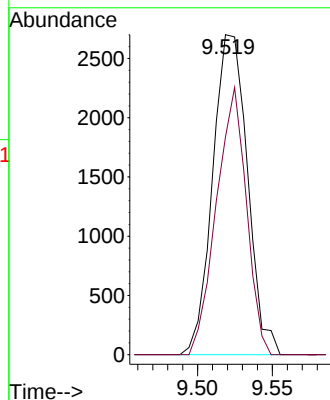
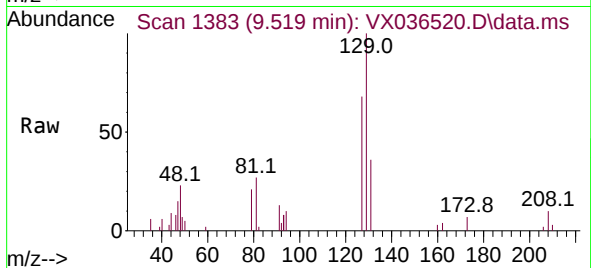
127 68.0 54.8 101.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#50

1,2-Dibromoethane

Concen: 2.187 ug/L

RT: 9.610 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

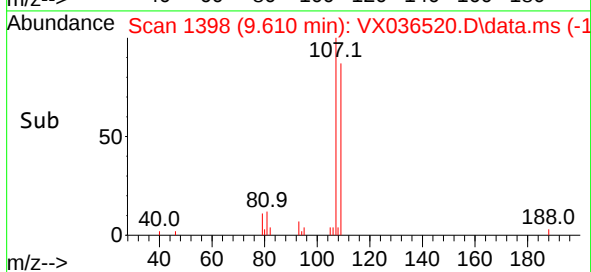
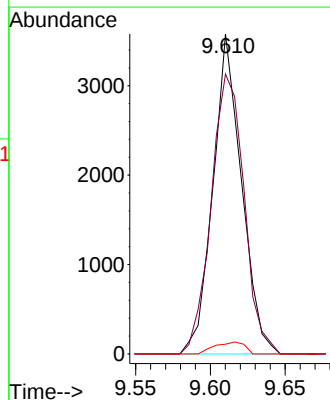
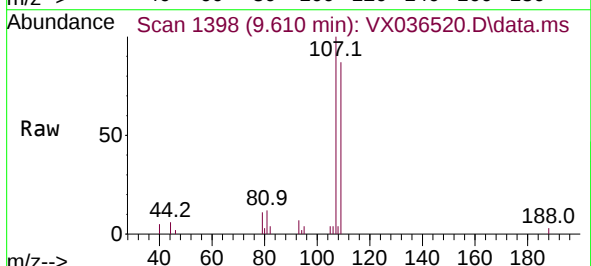
Tgt Ion:107 Resp: 4759

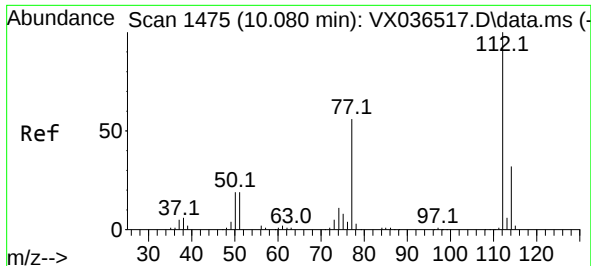
Ion Ratio Lower Upper

107 100

109 87.5 67.3 124.9

188 3.0 2.8 4.2





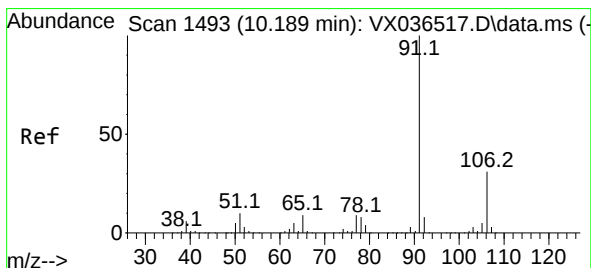
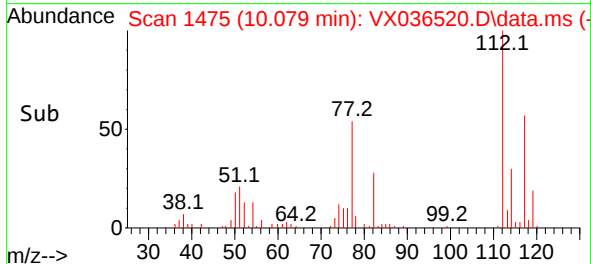
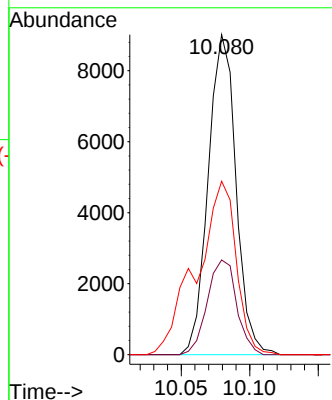
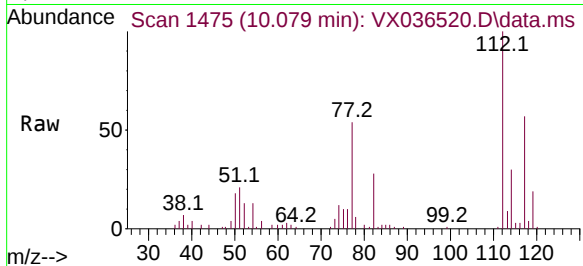
#51
Chlorobenzene
Concen: 2.364 ug/L
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument : MSVOA_X
ClientSampleId : MDL-WATER-QT3-2023-06

Tgt Ion:112 Resp: 12708
Ion Ratio Lower Upper
112 100
114 29.6 22.3 41.3
77 54.2 45.2 67.8

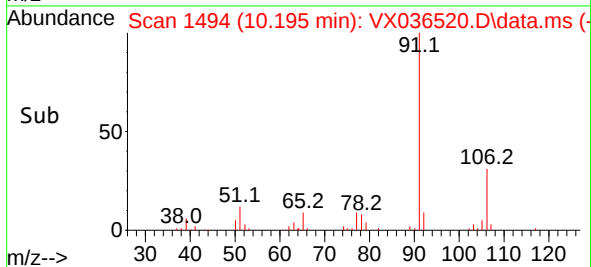
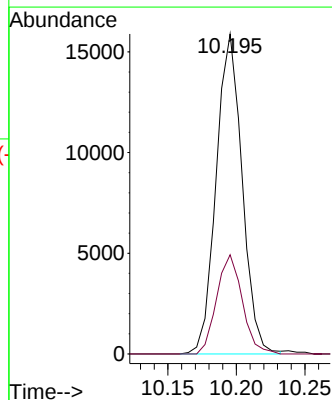
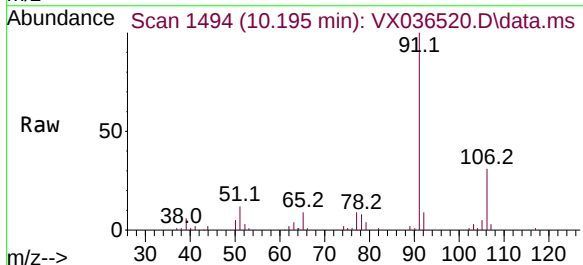
Manual Integrations
APPROVED

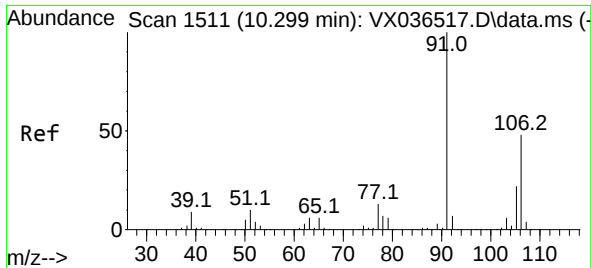
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#52
Ethylbenzene
Concen: 2.298 ug/L
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion: 91 Resp: 20906
Ion Ratio Lower Upper
91 100
106 31.0 22.1 41.1





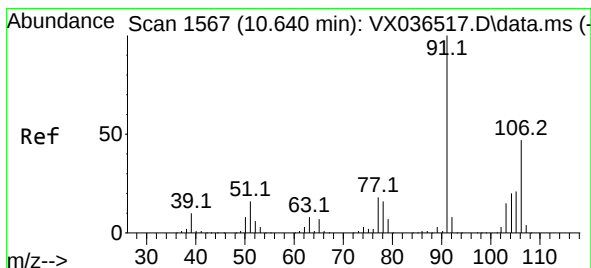
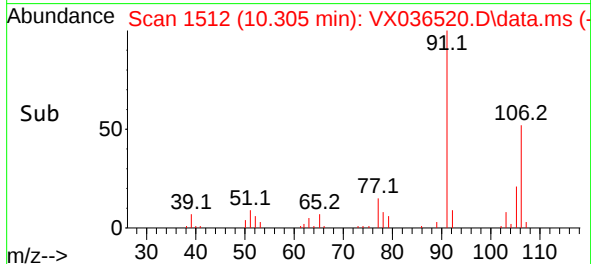
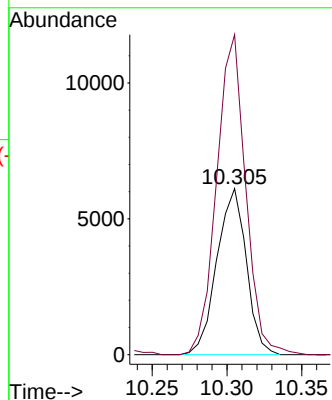
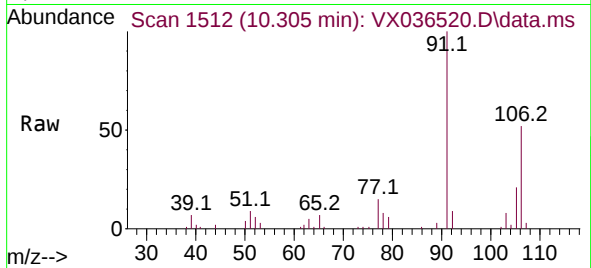
#53
m,p-Xylene
Concen: 2.412 ug/L
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-QT3-2023-06

Tgt Ion:106 Resp: 8372
Ion Ratio Lower Upper
106 100
91 192.7 143.1 265.9

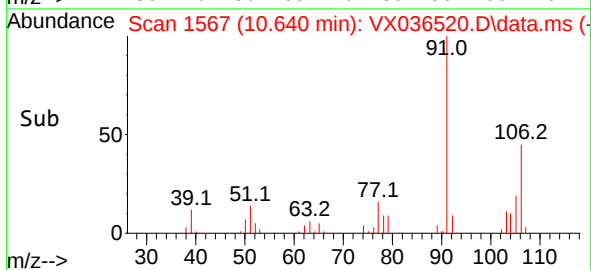
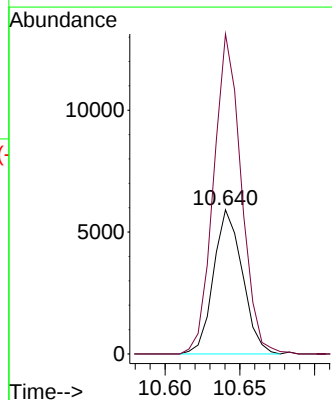
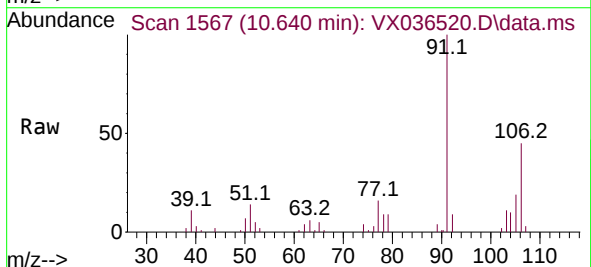
Manual Integrations
APPROVED

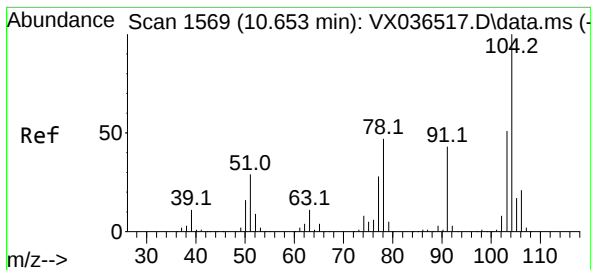
Reviewed By :John Carlone 07/14/2023
Supervised By :Semsettin Yesilyurt 07/14/2023



#54
o-Xylene
Concen: 2.308 ug/L
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX036520.D
Acq: 13 Jul 2023 12:12

Tgt Ion:106 Resp: 7947
Ion Ratio Lower Upper
106 100
91 221.9 147.8 274.4





#55

Styrene

Concen: 2.110 ug/L

RT: 10.659 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion:104 Resp: 12110

Ion Ratio Lower Upper

104 100

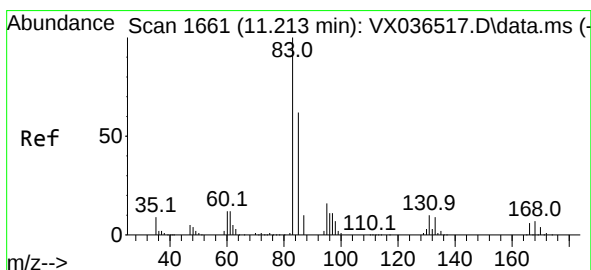
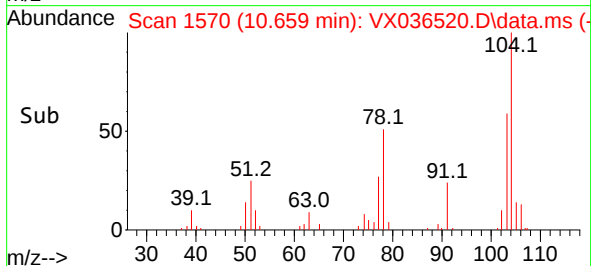
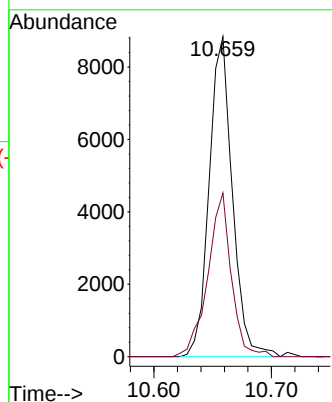
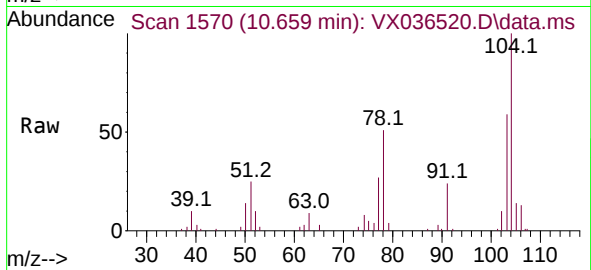
78 51.2 33.5 62.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#57

1,1,2,2-Tetrachloroethane

Concen: 2.535 ug/L

RT: 11.213 min Scan# 1661

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

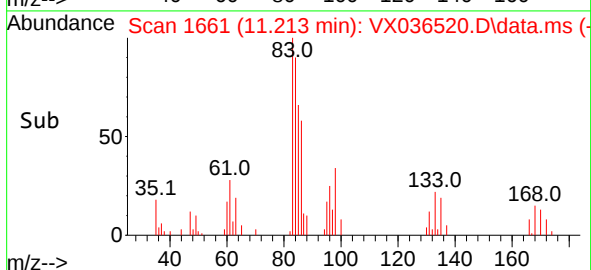
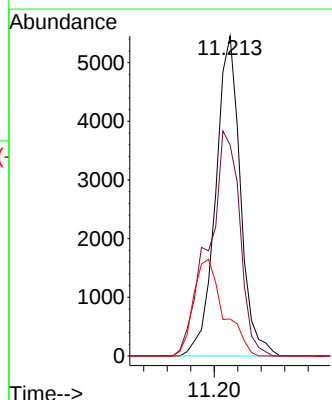
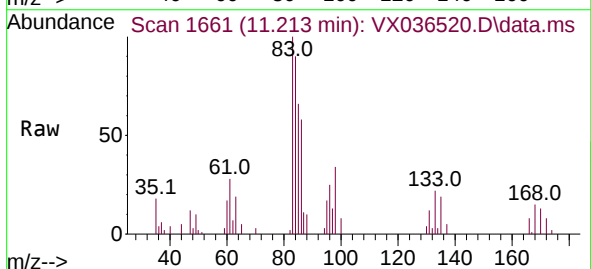
Tgt Ion: 83 Resp: 7995

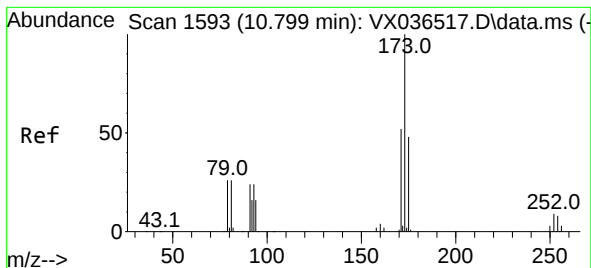
Ion Ratio Lower Upper

83 100

85 65.9 44.9 83.3

131 11.6 7.4 11.0#





#59

Bromoform

Concen: 1.990 ug/L

RT: 10.805 min Scan# 1593

Delta R.T. 0.006 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

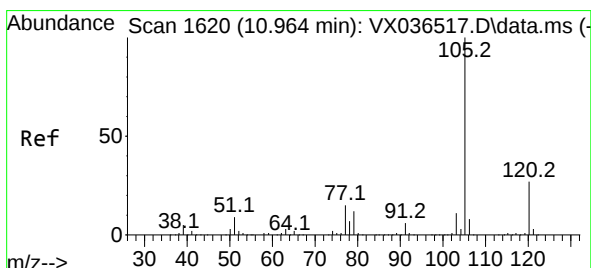
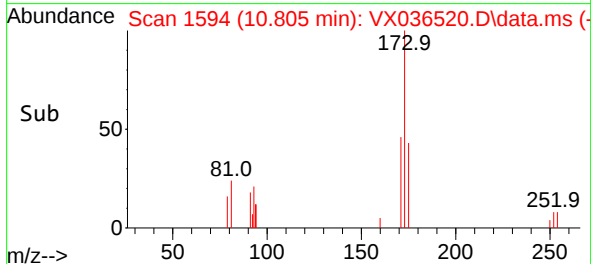
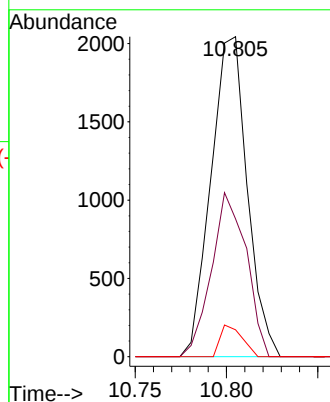
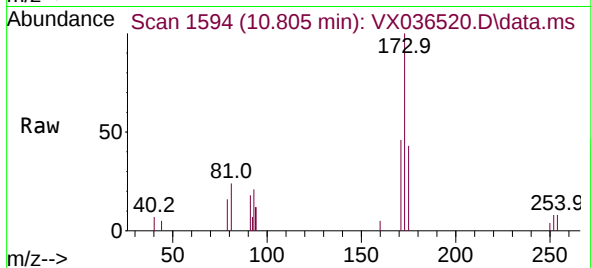
Tgt Ion:173	Resp:	2828
Ion Ratio	Lower	Upper
173	100	
175	49.0	39.5 59.3
254	5.9	7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#60

Isopropylbenzene

Concen: 2.387 ug/L

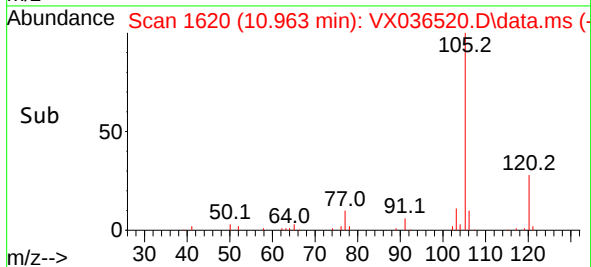
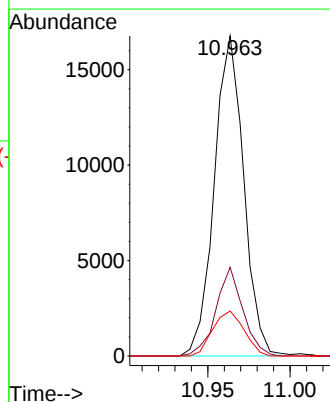
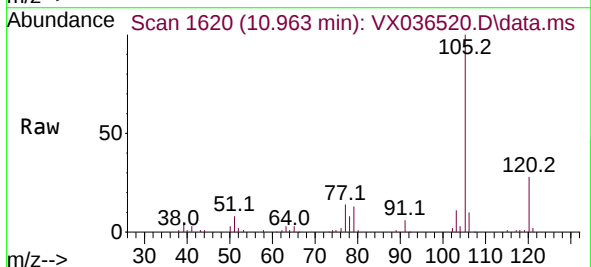
RT: 10.963 min Scan# 1620

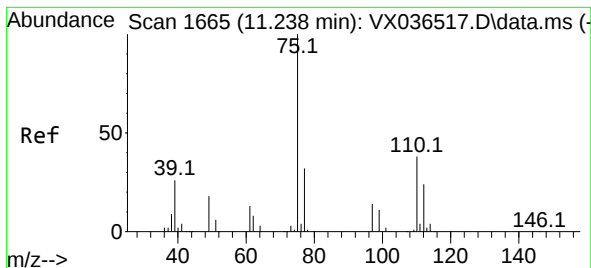
Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Tgt Ion:105	Resp:	20857
Ion Ratio	Lower	Upper
105	100	
120	25.4	21.5 32.3
77	15.0	12.7 19.1





#61

1,2,3-Trichloropropane

Concen: 2.551 ug/L

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

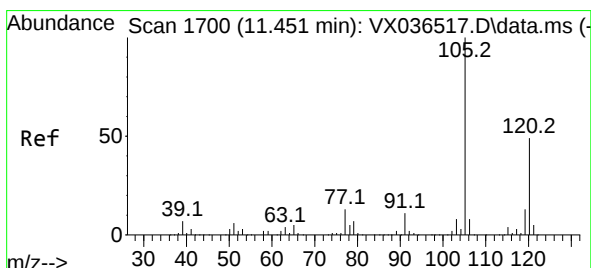
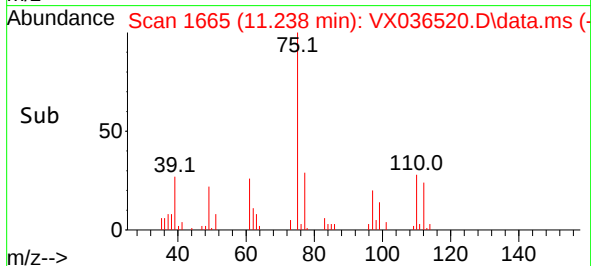
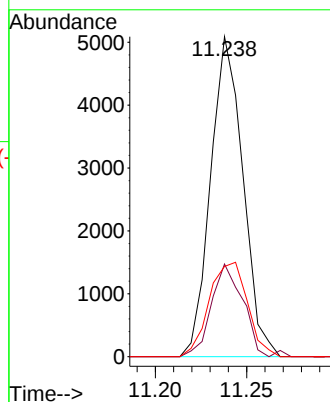
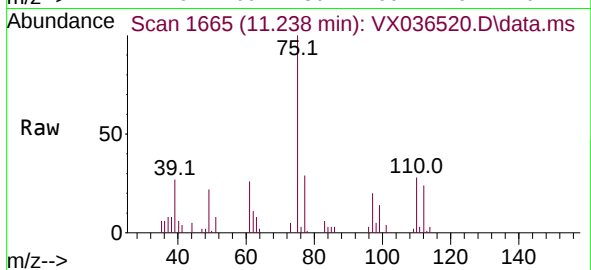
Tgt Ion: 75	Resp: 626
Ion Ratio	Lower Upper
75 100	
77 28.0	25.4 38.0
110 34.9	29.9 44.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#62

1,3,5-Trimethylbenzene

Concen: 2.168 ug/L

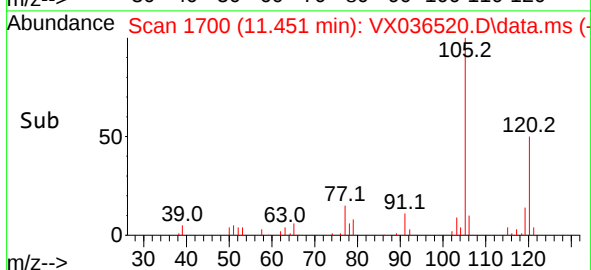
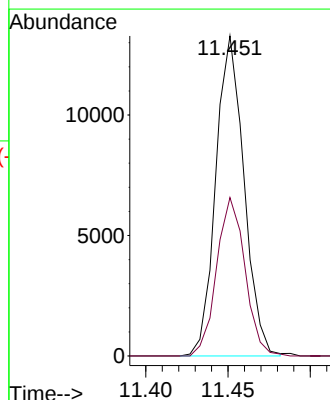
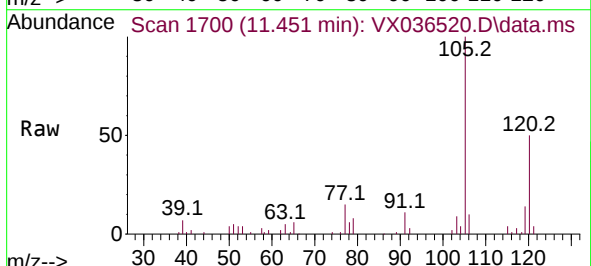
RT: 11.451 min Scan# 1700

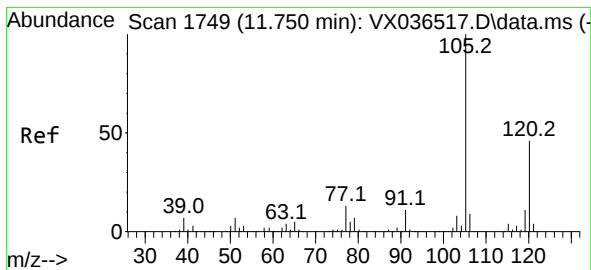
Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Tgt Ion: 105	Resp: 15830
Ion Ratio	Lower Upper
105 100	
120 49.7	38.3 57.5





#63

1,2,4-Trimethylbenzene

Concen: 2.176 ug/L

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion:105 Resp: 15938

Ion Ratio Lower Upper

105 100

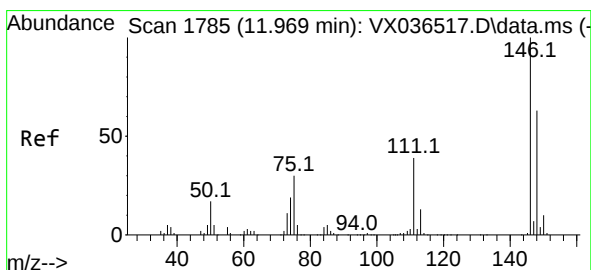
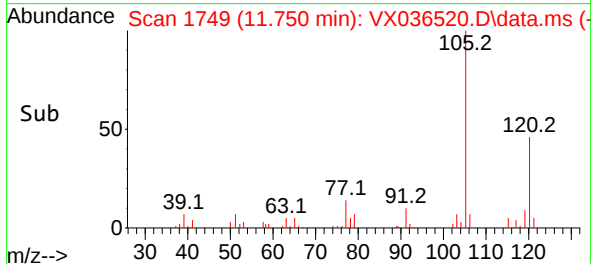
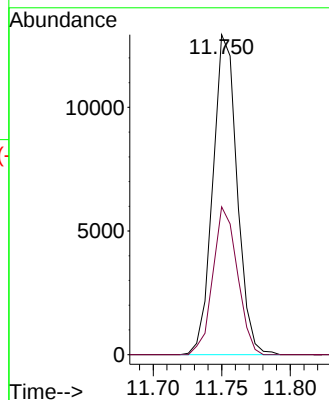
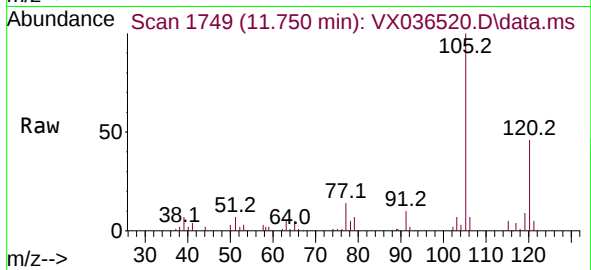
120 46.5 36.7 55.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#64

1,3-Dichlorobenzene

Concen: 2.306 ug/L

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

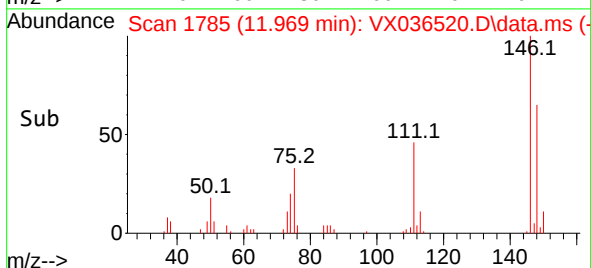
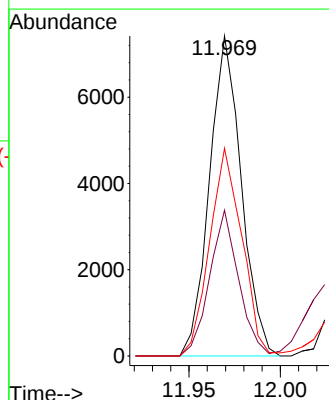
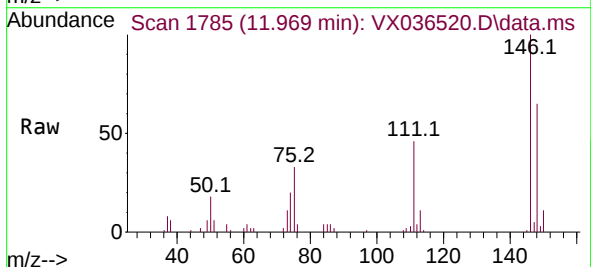
Tgt Ion:146 Resp: 9015

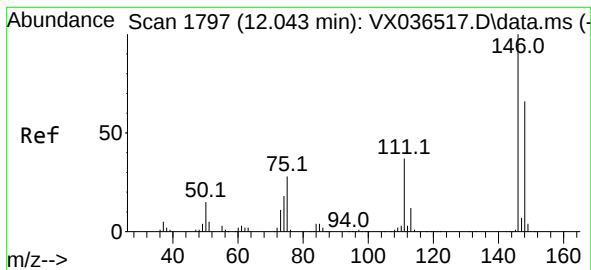
Ion Ratio Lower Upper

146 100

111 45.6 29.5 54.7

148 64.9 44.9 83.5





#65

1,4-Dichlorobenzene

Concen: 2.401 ug/L

RT: 12.043 min Scan# 1797

Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

Tgt Ion:146 Resp: 9470

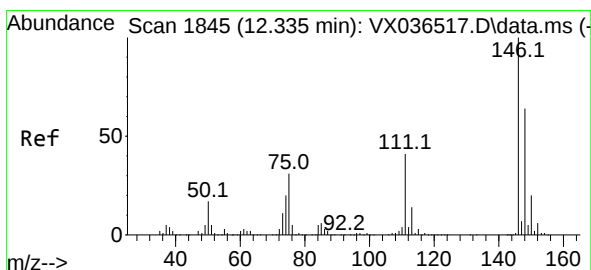
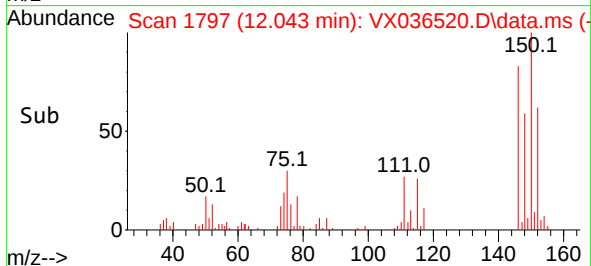
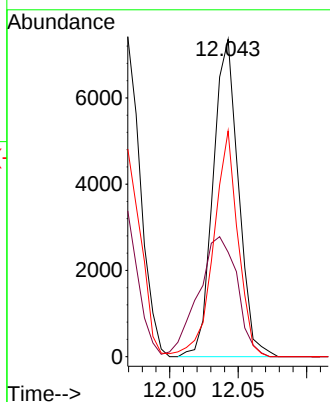
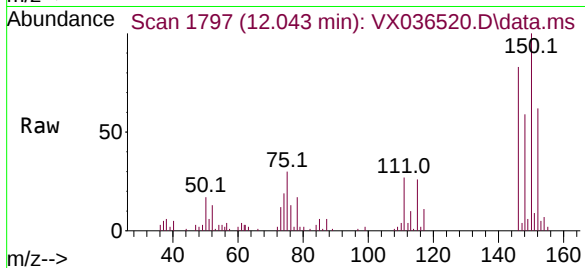
Ion	Ratio	Lower	Upper
146	100		
111	32.9	27.1	50.3
148	71.2	45.2	84.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#67

1,2-Dichlorobenzene

Concen: 2.455 ug/L

RT: 12.335 min Scan# 1845

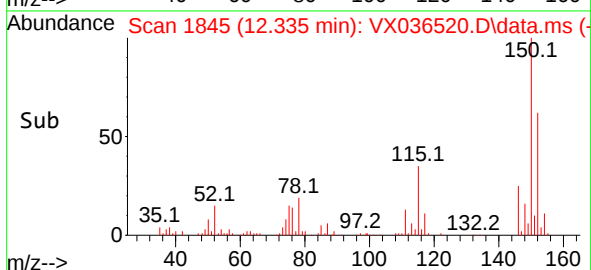
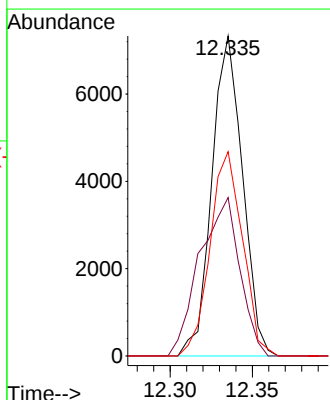
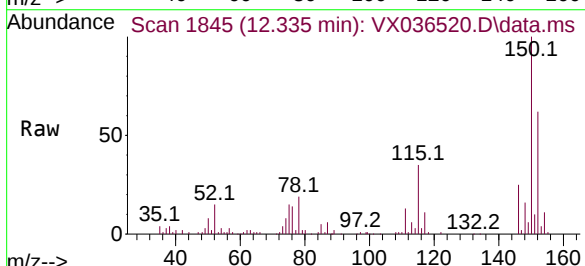
Delta R.T. -0.000 min

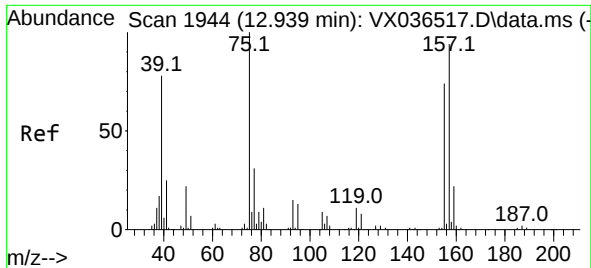
Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Tgt Ion:146 Resp: 9524

Ion	Ratio	Lower	Upper
146	100		
111	49.5	34.4	51.6
148	63.8	51.9	77.9





#68

1,2-Dibromo-3-chloropropane

Concen: 2.360 ug/L

RT: 12.939 min Scan# 1944

Delta R.T. -0.000 min

Lab File: VX036520.D

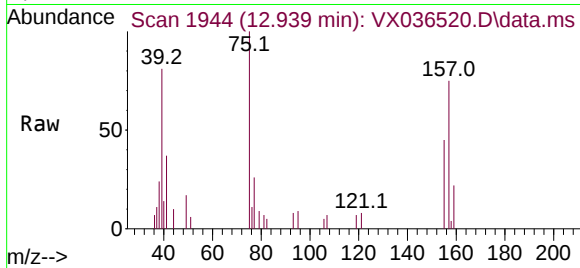
Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06



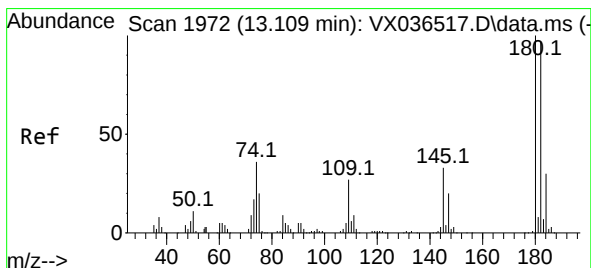
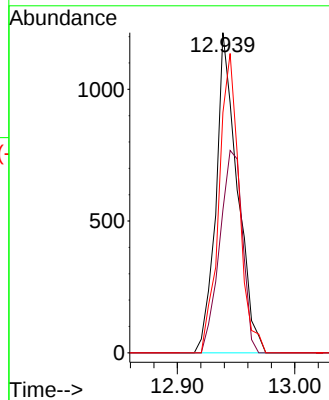
Tgt Ion: 75	Resp: 154
Ion Ratio	Lower Upper
75	100
155	44.6 68.4 102.6
157	75.1 86.8 130.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#69

1,3,5-Trichlorobenzene

Concen: 2.282 ug/L

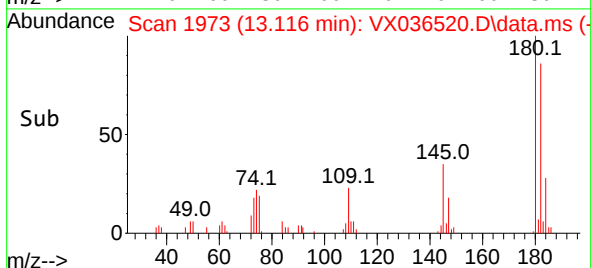
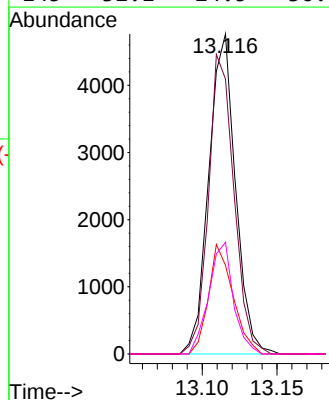
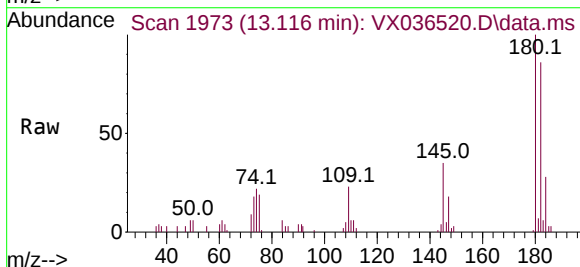
RT: 13.116 min Scan# 1973

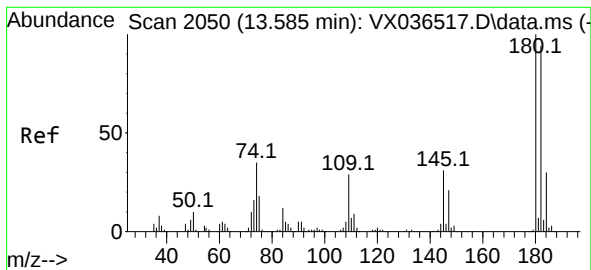
Delta R.T. 0.006 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Tgt Ion: 180	Resp: 5920
Ion Ratio	Lower Upper
180	100
182	89.1 75.2 112.8
184	31.4 23.9 35.9
145	32.1 24.5 36.7





#70

1,2,4-trichlorobenzene

Concen: 2.150 ug/L

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-QT3-2023-06

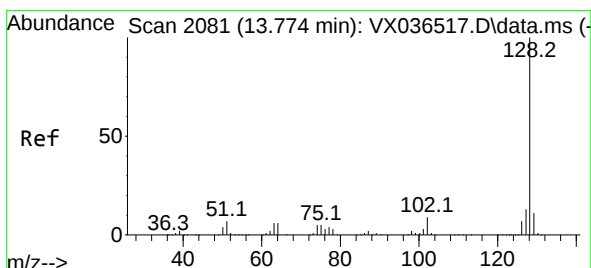
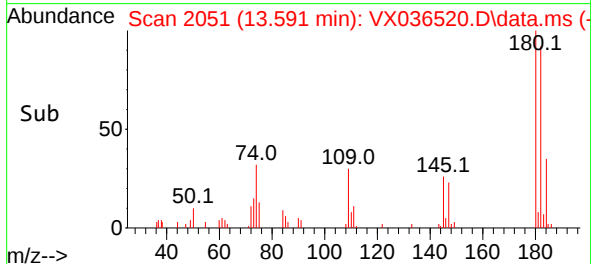
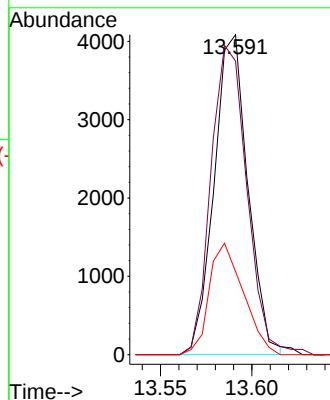
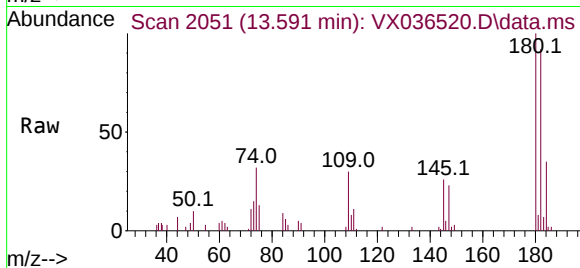
Tgt Ion:180 Resp: 526
 Ion Ratio Lower Upper
 180 100
 182 103.0 74.7 112.1
 145 35.3 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/14/2023

Supervised By :Semsettin Yesilyurt 07/14/2023



#71

Naphthalene

Concen: 2.035 ug/L

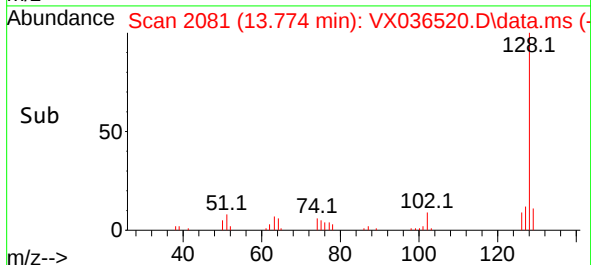
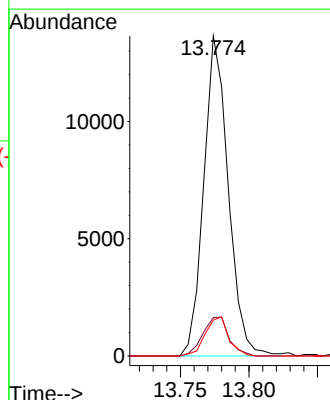
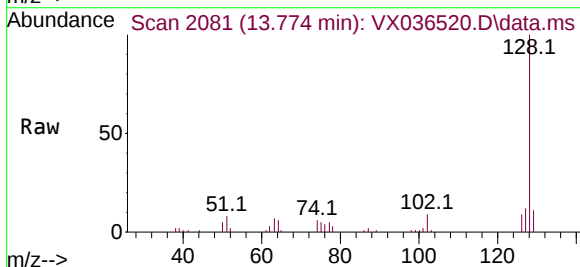
RT: 13.774 min Scan# 2081

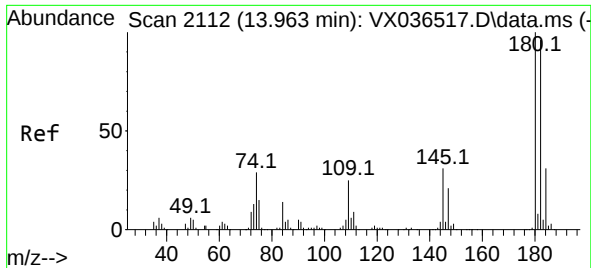
Delta R.T. -0.000 min

Lab File: VX036520.D

Acq: 13 Jul 2023 12:12

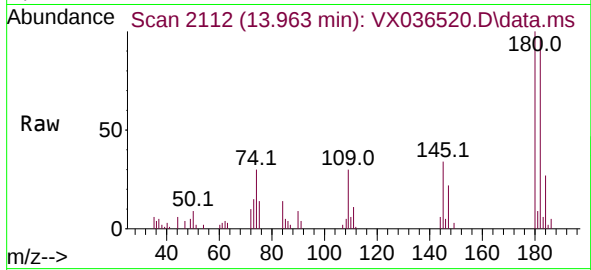
Tgt Ion:128 Resp: 16994
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.6 16.0
 129 11.6 8.6 13.0





#72
 1,2,3-Trichlorobenzene
 Concen: 2.324 ug/L
 RT: 13.963 min Scan# 2112
 Delta R.T. -0.000 min
 Lab File: VX036520.D
 Acq: 13 Jul 2023 12:12

Instrument : MSVOA_X
 ClientSampleId : MDL-WATER-QT3-2023-06



Tgt Ion:180 Resp: 554
 Ion Ratio Lower Upper
 180 100
 182 91.5 78.6 117.8
 145 34.1 27.5 41.3

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/14/2023
 Supervised By :Semsettin Yesilyurt 07/14/2023

