

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120523\
 Data File : VW033104.D
 Acq On : 05 Dec 2023 12:48
 Operator : SY/MD
 Sample : 04696-02
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT4-2023-08

Quant Time: Dec 06 01:25:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 06 01:18:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	324948	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	316707	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	175453	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	81021	41.709	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.420%
7) Chloroethane-d5	1.532	69	57960	42.823	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.640%
11) 1,1-Dichloroethene-d2	2.060	65	31012	41.965	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.940%
21) 2-Butanone-d5	3.780	46	88300	91.520	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.520%
24) Chloroform-d	4.246	84	180149	43.700	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	4.937	65	115873	45.209	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.420%
32) Benzene-d6	4.957	84	335777	45.332	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.660%
36) 1,2-Dichloropropane-d6	5.986	67	94088	47.243	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.480%
41) Toluene-d8	7.243	98	306544	43.383	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.760%
43) trans-1,3-Dichloroprop...	7.551	79	51937	41.241	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.480%
47) 2-Hexanone-d5	8.021	63	70549	88.177	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.180%
56) 1,1,2,2-Tetrachloroeth...	10.153	84	128507	45.391	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.780%
66) 1,2-Dichlorobenzene-d4	11.561	152	148383	47.532	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.060%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.105	85	6987	1.967	ug/L	99
3) Chloromethane	1.214	50	4714	2.012	ug/L	90
5) Vinyl chloride	1.285	62	4835	2.152	ug/L #	79
6) Bromomethane	1.487	94	3053	2.082	ug/L	94
8) Chloroethane	1.548	64	2740	2.291	ug/L	96
9) Trichlorofluoromethane	1.716	101	7371	1.988	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	4823	2.770	ug/L #	88
12) 1,1-Dichloroethene	2.069	96	4404	2.703	ug/L #	1
13) Acetone	2.111	43	3756	4.078	ug/L	94
14) Carbon disulfide	2.243	76	11881	2.033	ug/L	99
15) Methyl Acetate	2.381	43	3112	2.027	ug/L #	79
16) Methylene chloride	2.445	84	4340	2.012	ug/L	97
17) trans-1,2-Dichloroethene	2.699	96	4144	1.937	ug/L	97
18) Methyl tert-butyl Ether	2.703	73	11879	1.828	ug/L	97
19) 1,1-Dichloroethane	3.117	63	7169	2.025	ug/L	90
20) cis-1,2-Dichloroethene	3.822	96	4582	2.019	ug/L	87
22) 2-Butanone	3.905	43	4499m	3.838	ug/L	
23) Bromochloromethane	4.156	128	2369	1.818	ug/L	93
25) Chloroform	4.275	83	9756	2.396	ug/L	91

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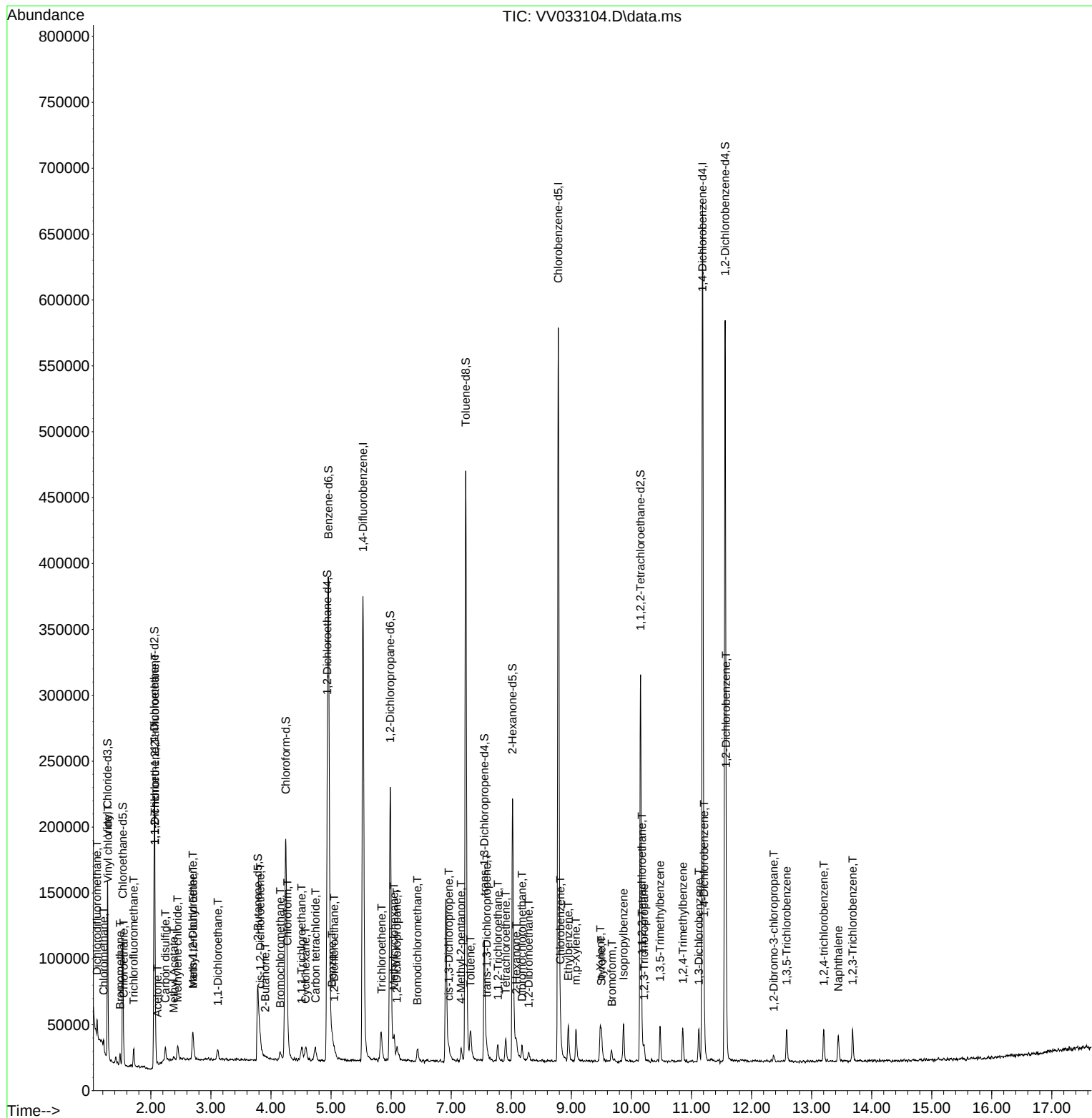
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.053	62	6395	1.988	ug/L	97
29) Cyclohexane	4.574	56	5830	1.993	ug/L	95
30) 1,1,1-Trichloroethane	4.510	97	7802	1.993	ug/L	99
31) Carbon tetrachloride	4.741	117	8131	2.234	ug/L	93
33) Benzene	5.014	78	15571	1.940	ug/L	100
34) Trichloroethene	5.844	95	4926m	2.054	ug/L	
35) Methylcyclohexane	6.050	83	7004m	2.013	ug/L	
37) 1,2-Dichloropropane	6.095	63	4156m	2.238	ug/L	
38) Bromodichloromethane	6.436	83	6447	2.153	ug/L	95
39) cis-1,3-Dichloropropene	6.960	75	6687	1.984	ug/L	83
40) 4-Methyl-2-pentanone	7.166	43	6303	3.196	ug/L	98
42) Toluene	7.323	91	17940	1.984	ug/L	96
44) trans-1,3-Dichloropropene	7.590	75	6488	1.904	ug/L	94
45) 1,1,2-Trichloroethane	7.776	97	4350	2.020	ug/L	91
46) Tetrachloroethene	7.908	164	4128	2.003	ug/L	92
48) 2-Hexanone	8.085	43	10083m	6.167	ug/L	
49) Dibromochloromethane	8.182	129	5046	1.963	ug/L	89
50) 1,2-Dibromoethane	8.291	107	4546	1.980	ug/L #	96
51) Chlorobenzene	8.818	112	12959	2.038	ug/L	98
52) Ethylbenzene	8.950	91	18353	1.763	ug/L	95
53) m,p-Xylene	9.075	106	7227	1.753	ug/L	84
54) o-Xylene	9.484	106	7736	1.902	ug/L	88
55) Styrene	9.503	104	11347	1.612	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.175	83	6344	2.156	ug/L	99
59) Bromoform	9.673	173	3690	1.938	ug/L #	68
60) Isopropylbenzene	9.870	105	19011	1.879	ug/L	98
61) 1,2,3-Trichloropropane	10.214	75	4232	1.934	ug/L	95
62) 1,3,5-Trimethylbenzene	10.477	105	14052	1.724	ug/L	95
63) 1,2,4-Trimethylbenzene	10.857	105	14802	1.744	ug/L	99
64) 1,3-Dichlorobenzene	11.124	146	10749	1.989	ug/L	99
65) 1,4-Dichlorobenzene	11.210	146	11665	2.078	ug/L	96
67) 1,2-Dichlorobenzene	11.577	146	11455	2.162	ug/L	88
68) 1,2-Dibromo-3-chloropr...	12.371	75	1329	1.980	ug/L #	86
69) 1,3,5-Trichlorobenzene	12.583	180	8672	2.003	ug/L	96
70) 1,2,4-trichlorobenzene	13.204	180	7883	1.971	ug/L	95
71) Naphthalene	13.445	128	17479	1.792	ug/L	99
72) 1,2,3-Trichlorobenzene	13.683	180	7271	1.884	ug/L	95

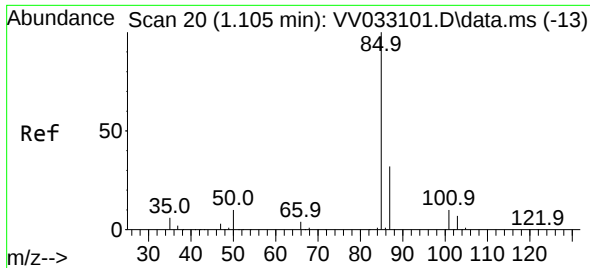
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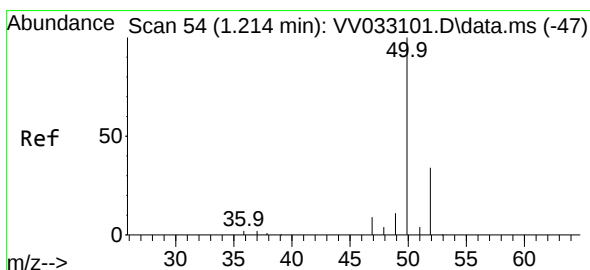
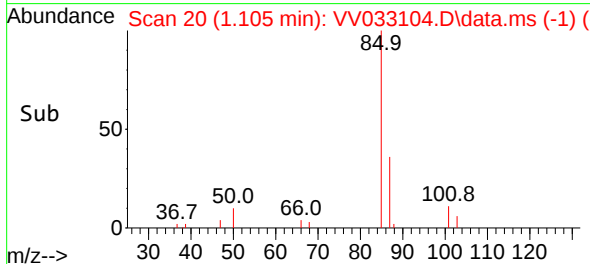
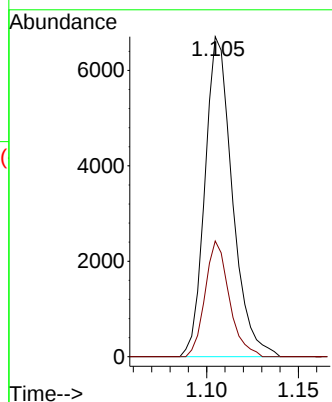
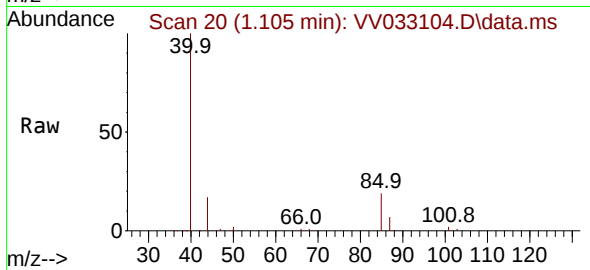




#2
 Dichlorodifluoromethane
 Concen: 1.967 ug/L
 RT: 1.105 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VV033104.D
 Acq: 05 Dec 2023 12:48

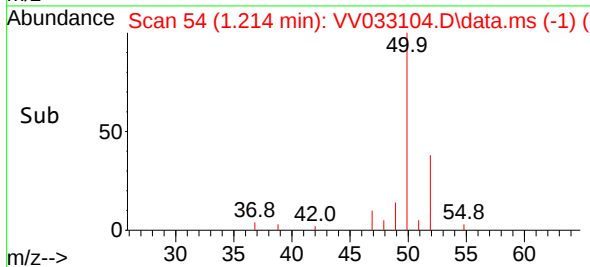
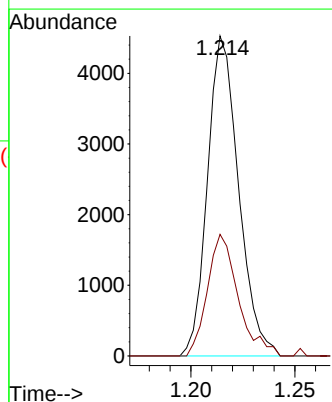
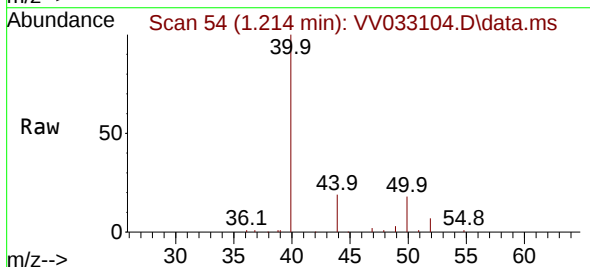
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT4-2023-08

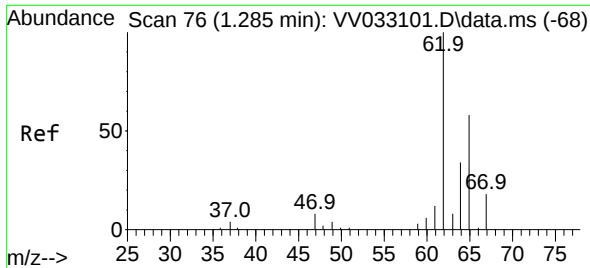
Tgt Ion: 85 Resp: 6987
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.0 39.0



#3
 Chloromethane
 Concen: 2.012 ug/L
 RT: 1.214 min Scan# 54
 Delta R.T. 0.000 min
 Lab File: VV033104.D
 Acq: 05 Dec 2023 12:48

Tgt Ion: 50 Resp: 4714
 Ion Ratio Lower Upper
 50 100
 52 38.0 22.8 42.4

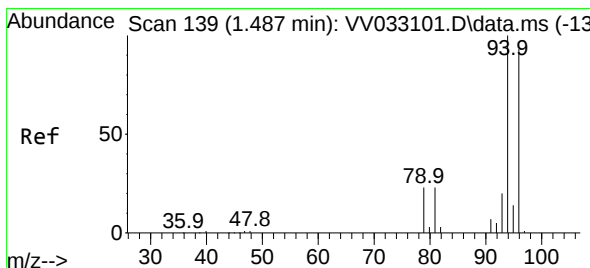
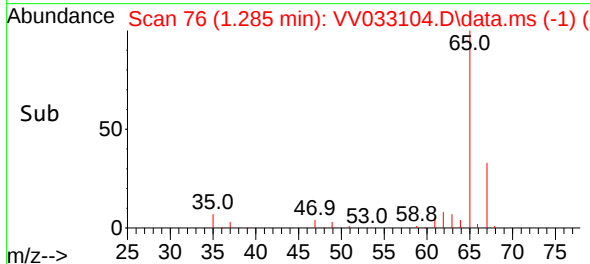
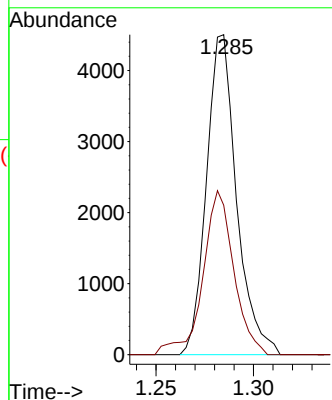
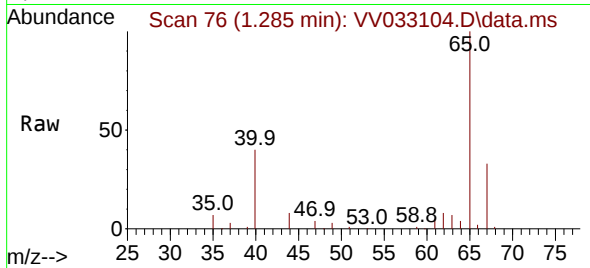




#5
 Vinyl chloride
 Concen: 2.152 ug/L
 RT: 1.285 min Scan# 70
 Delta R.T. 0.000 min
 Lab File: VV033104.D
 Acq: 05 Dec 2023 12:48

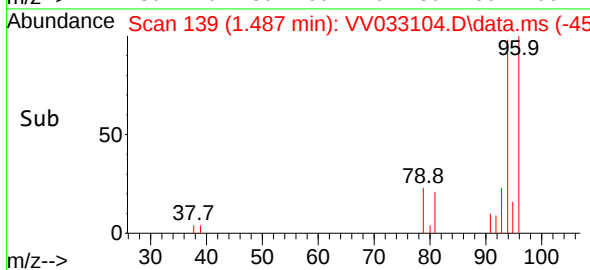
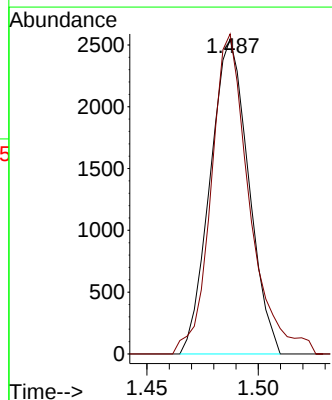
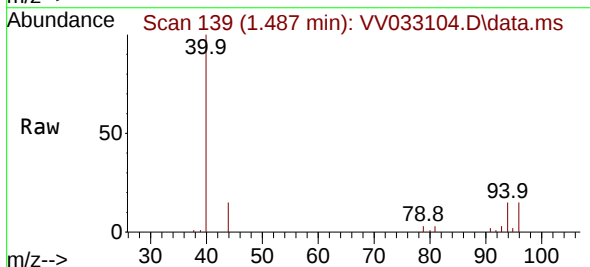
Instrument : MSVOA_V
 ClientSampleId : MDL-WATER-QT4-2023-08

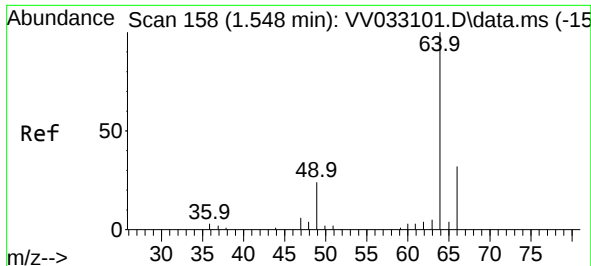
Tgt Ion: 62 Resp: 4835
 Ion Ratio Lower Upper
 62 100
 64 46.7 24.2 45.0#



#6
 Bromomethane
 Concen: 2.082 ug/L
 RT: 1.487 min Scan# 139
 Delta R.T. 0.003 min
 Lab File: VV033104.D
 Acq: 05 Dec 2023 12:48

Tgt Ion: 94 Resp: 3053
 Ion Ratio Lower Upper
 94 100
 96 101.6 67.1 124.7

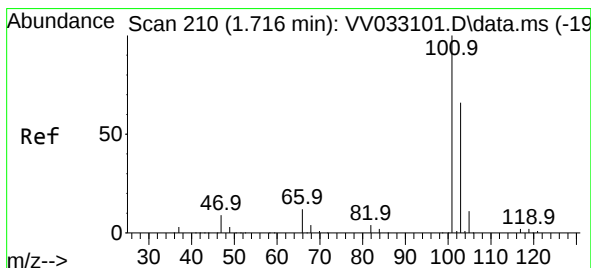
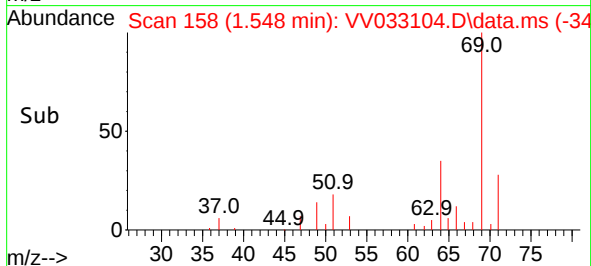
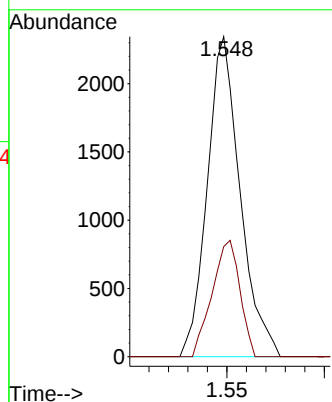
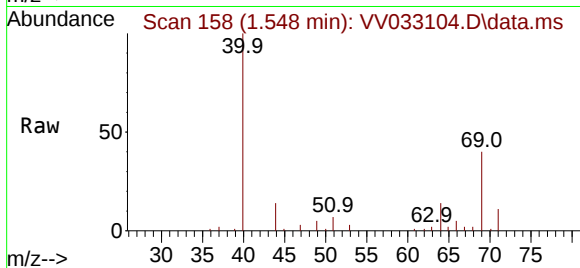




#8
Chloroethane
Concen: 2.291 ug/L
RT: 1.548 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

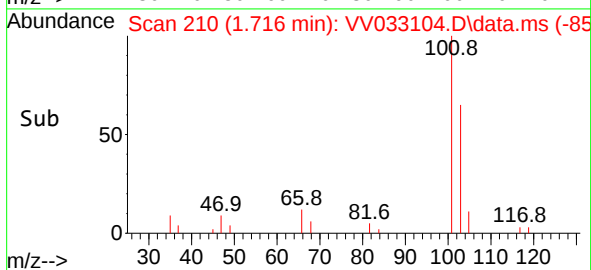
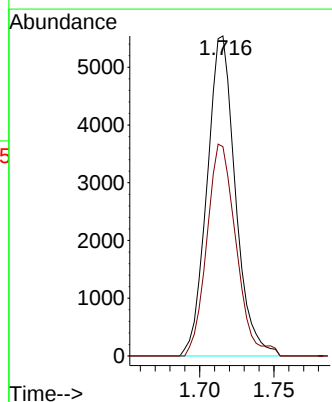
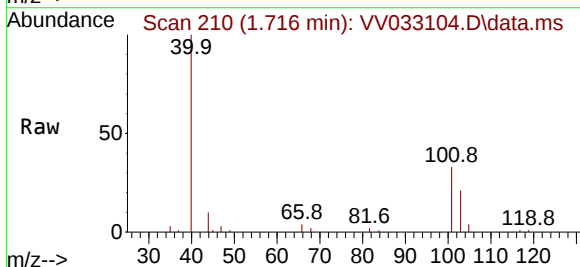
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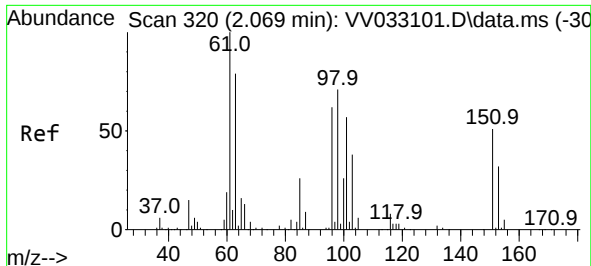
Tgt Ion: 64 Resp: 2740
Ion Ratio Lower Upper
64 100
66 34.4 22.3 41.5



#9
Trichlorofluoromethane
Concen: 1.988 ug/L
RT: 1.716 min Scan# 210
Delta R.T. 0.003 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion:101 Resp: 7371
Ion Ratio Lower Upper
101 100
103 67.3 51.3 76.9





#10

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

Concen: 2.770 ug/L

RT: 2.069 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

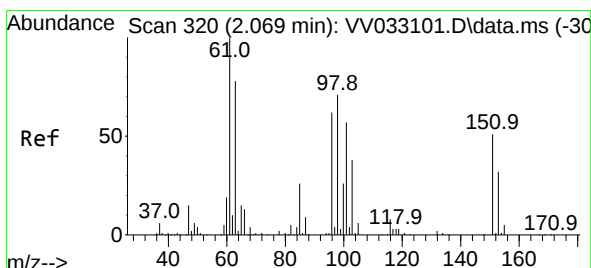
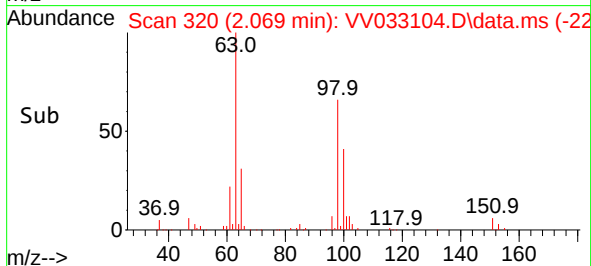
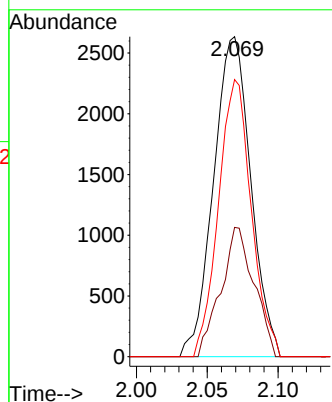
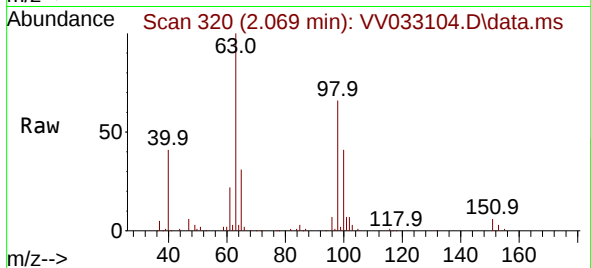
Tgt Ion:101 Resp: 4823

Ion Ratio Lower Upper

101 100

85 36.0 36.0 54.0#

151 76.2 69.1 103.7



#12

1,1-Dichloroethene

Concen: 2.703 ug/L

RT: 2.069 min Scan# 320

Delta R.T. 0.000 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

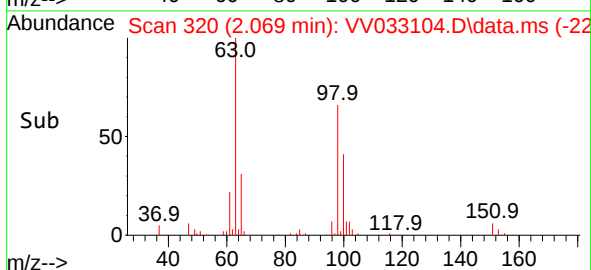
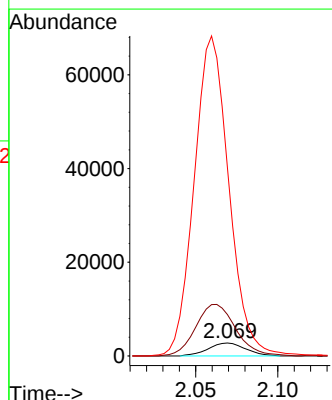
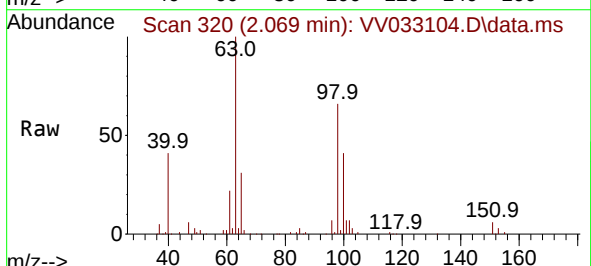
Tgt Ion: 96 Resp: 4404

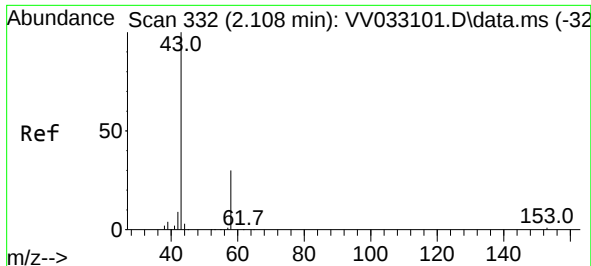
Ion Ratio Lower Upper

96 100

61 319.3 109.1 202.7#

63 1454.6 85.3 158.3#





#13

Acetone

Concen: 4.078 ug/L

RT: 2.111 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV033104.D

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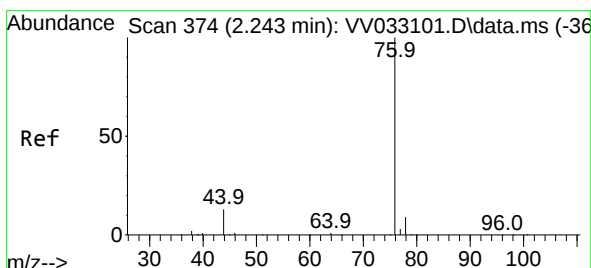
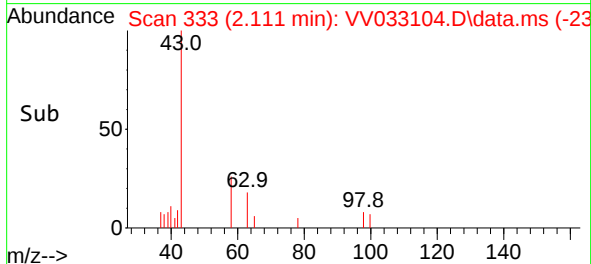
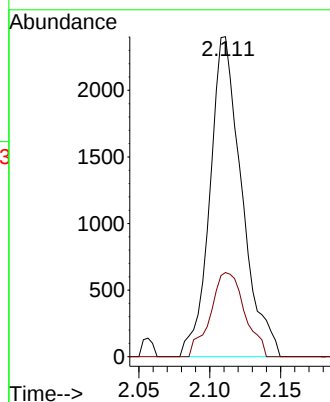
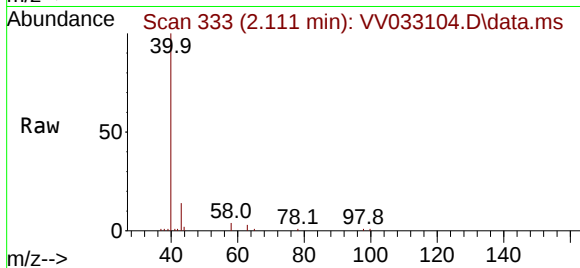
MDL-WATER-QT4-2023-08

Tgt Ion: 43 Resp: 3756

Ion Ratio Lower Upper

43 100

58 28.3 0.0 62.8



#14

Carbon disulfide

Concen: 2.033 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.003 min

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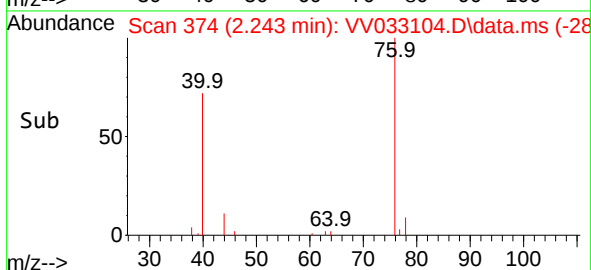
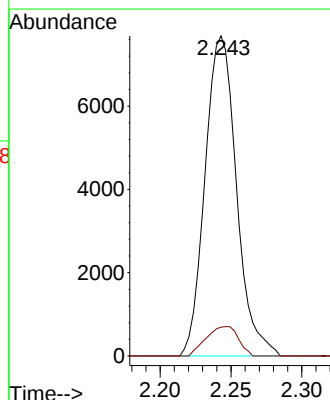
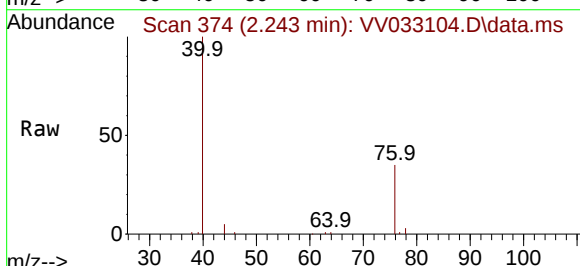
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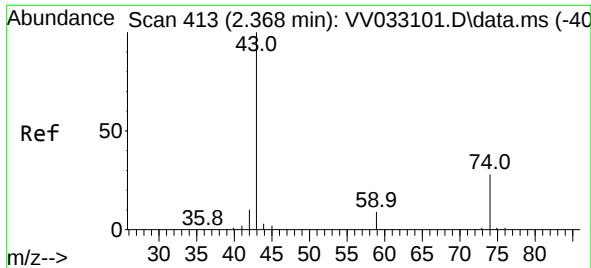
Tgt Ion: 76 Resp: 11881

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

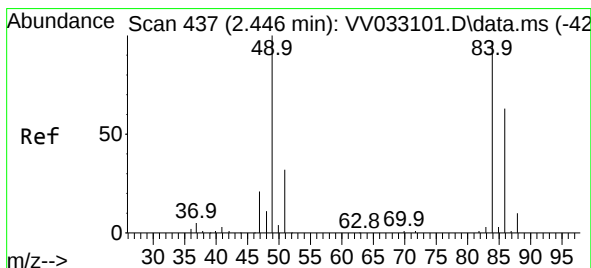
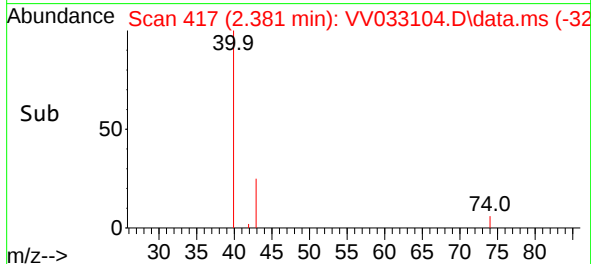
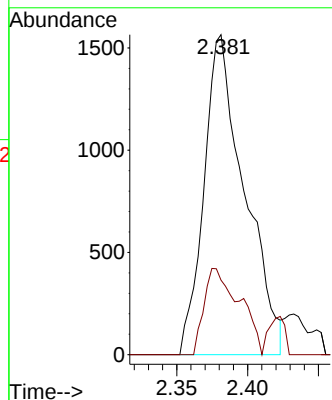
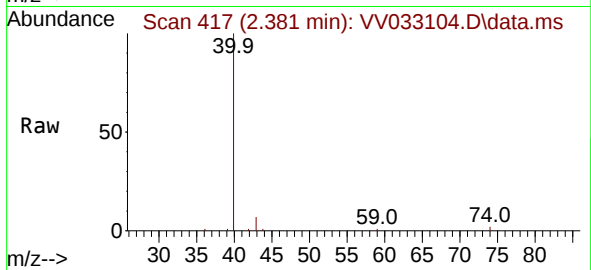




#15
Methyl Acetate
Concen: 2.027 ug/L
RT: 2.381 min Scan# 413
Delta R.T. 0.013 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

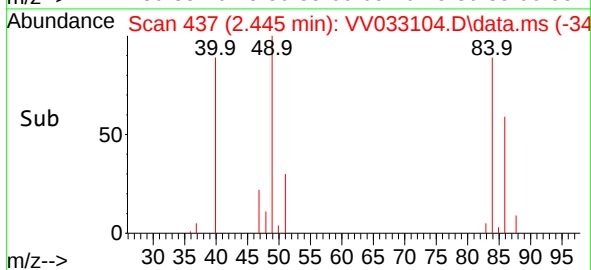
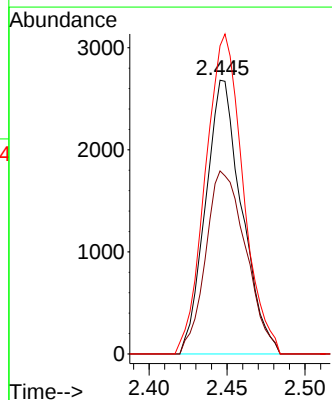
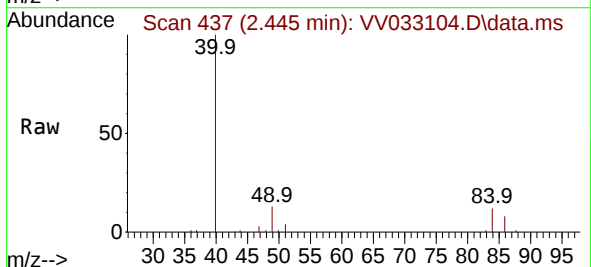
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2023-08

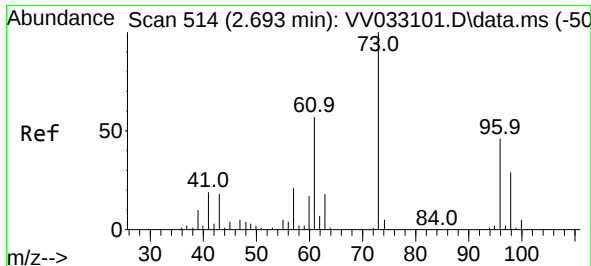
Tgt Ion: 43 Resp: 3112
Ion Ratio Lower Upper
43 100
74 17.1 22.6 33.8#



#16
Methylene chloride
Concen: 2.012 ug/L
RT: 2.445 min Scan# 437
Delta R.T. 0.000 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion: 84 Resp: 4340
Ion Ratio Lower Upper
84 100
86 66.9 45.9 85.3
49 112.6 75.5 140.1



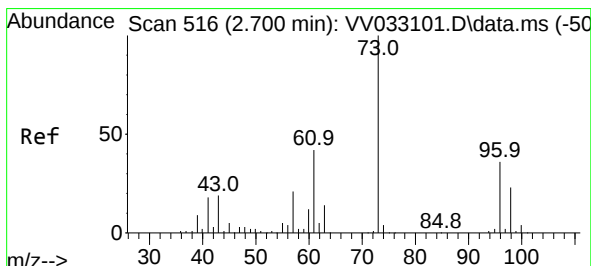
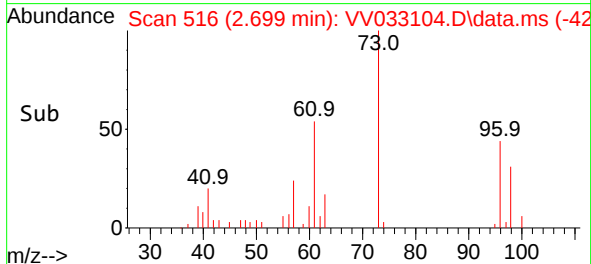
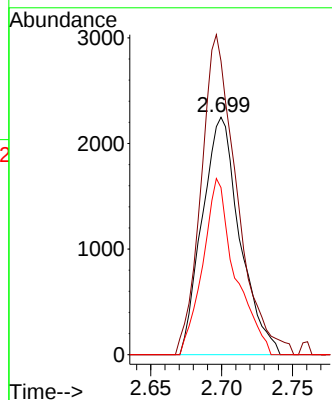
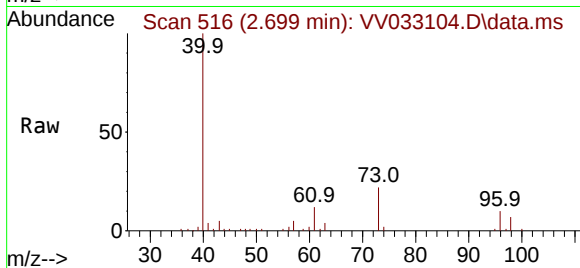


#17
 trans-1,2-Dichloroethene
 Concen: 1.937 ug/L
 RT: 2.699 min Scan# 514
 Delta R.T. 0.007 min
 Lab File: VV033104.D
 Acq: 05 Dec 2023 12:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT4-2023-08

Tgt Ion: 96 Resp: 4144

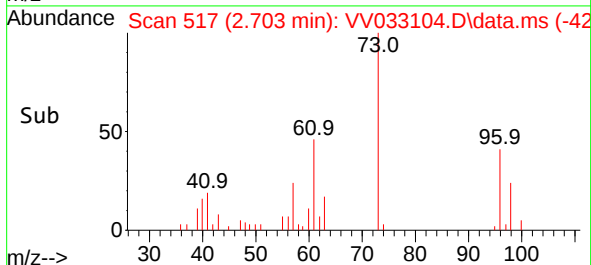
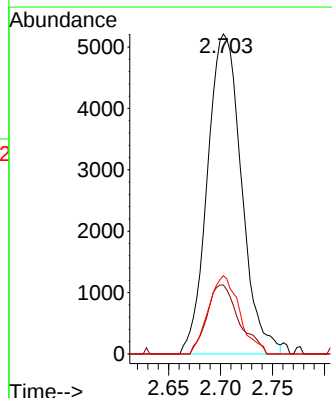
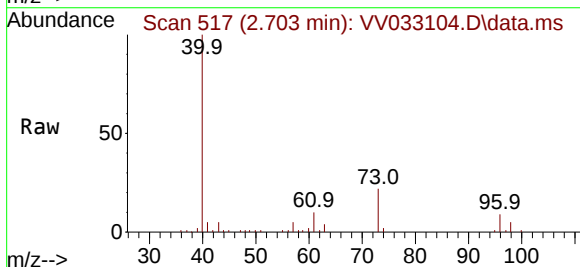
Ion	Ratio	Lower	Upper
96	100		
61	123.6	86.5	160.6
98	70.3	45.1	83.7

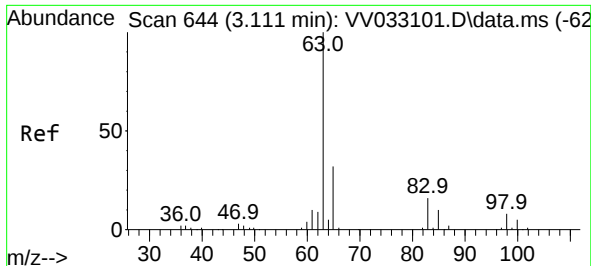


#18
 Methyl tert-butyl Ether
 Concen: 1.828 ug/L
 RT: 2.703 min Scan# 517
 Delta R.T. 0.003 min
 Lab File: VV033104.D
 Acq: 05 Dec 2023 12:48

Tgt Ion: 73 Resp: 11879

Ion	Ratio	Lower	Upper
73	100		
43	20.3	15.4	23.2
57	22.3	16.1	24.1





#19

1,1-Dichloroethane

Concen: 2.025 ug/L

RT: 3.117 min Scan# 644

Delta R.T. 0.010 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

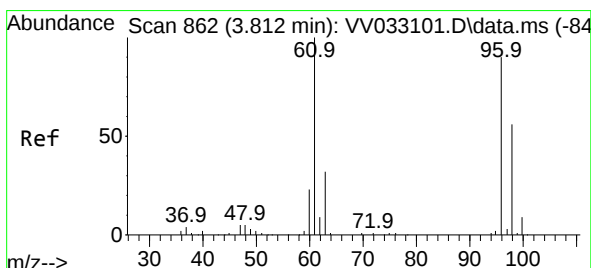
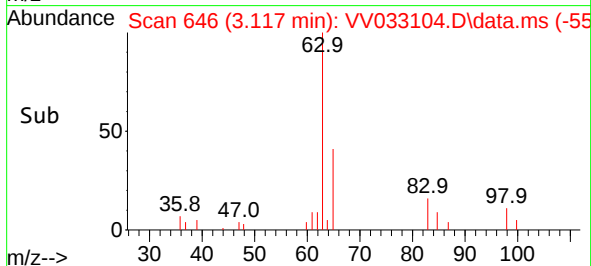
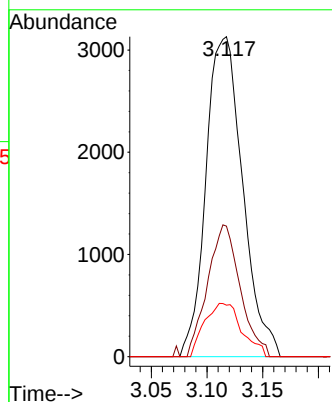
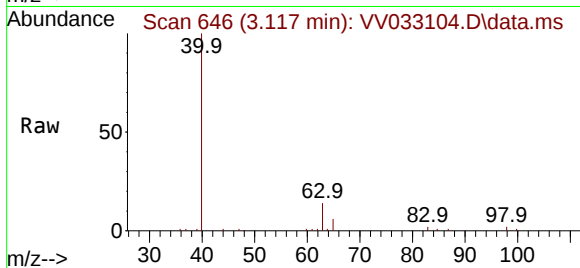
Tgt Ion: 63 Resp: 7169

Ion Ratio Lower Upper

63 100

65 40.8 23.0 42.6

83 16.1 11.4 21.2



#20

cis-1,2-Dichloroethene

Concen: 2.019 ug/L

RT: 3.822 min Scan# 865

Delta R.T. 0.010 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

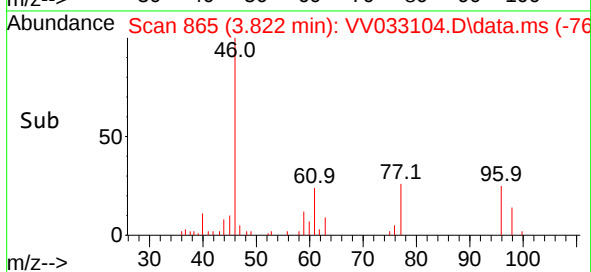
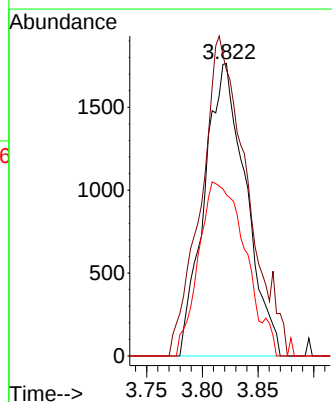
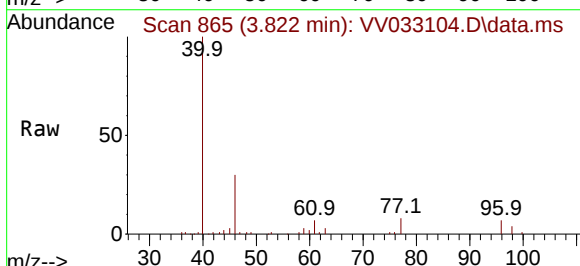
Tgt Ion: 96 Resp: 4582

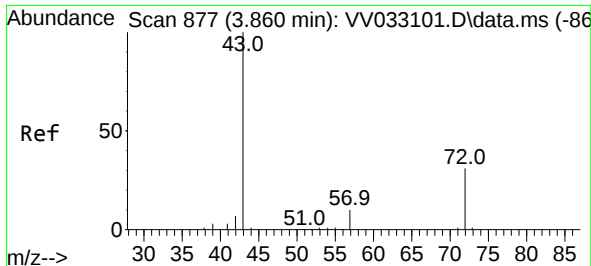
Ion Ratio Lower Upper

96 100

61 97.7 79.1 146.9

98 55.1 45.1 83.7

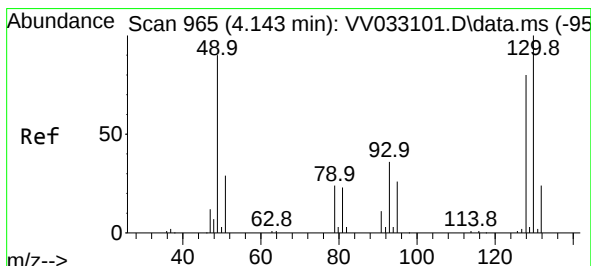
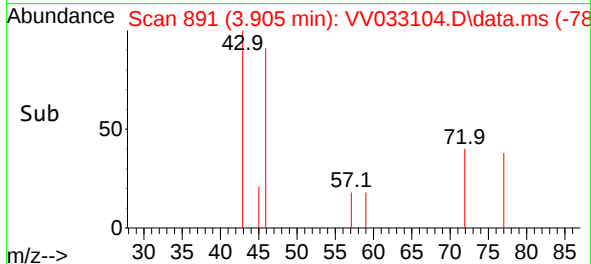
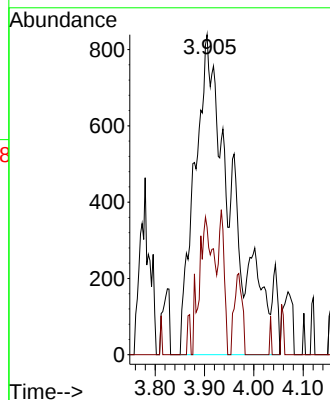
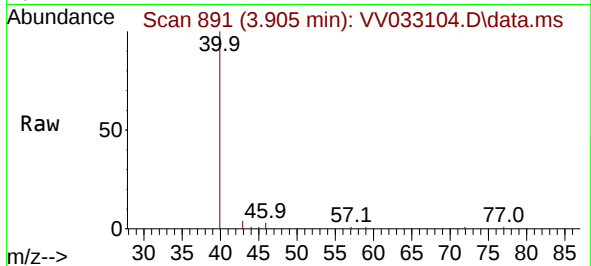




#22
2-Butanone
Concen: 3.838 ug/L m
RT: 3.905 min Scan# 891
Delta R.T. 0.048 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

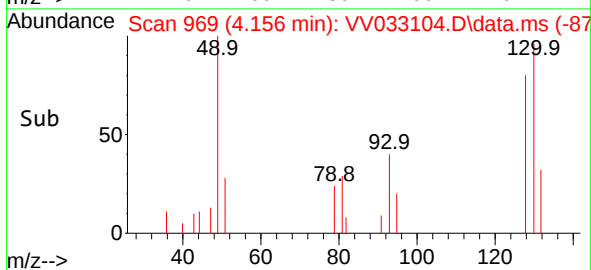
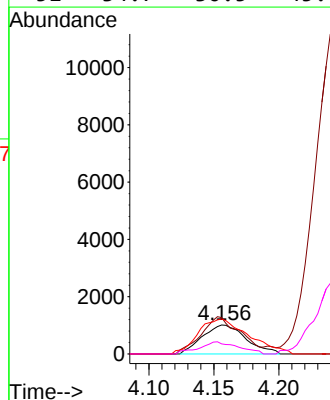
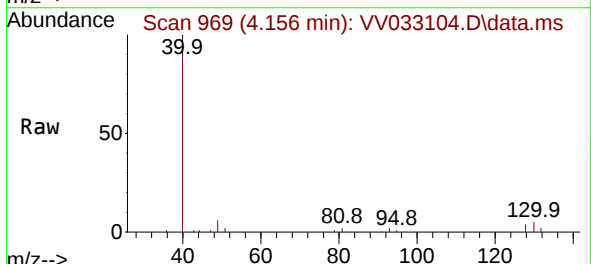
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2023-08

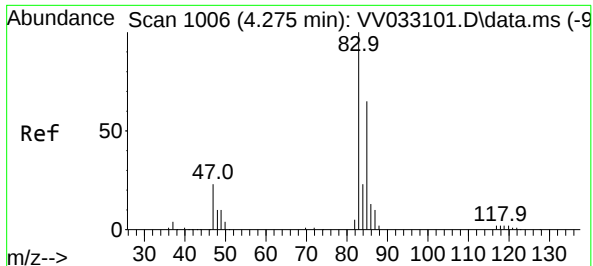
Tgt Ion: 43 Resp: 4499
Ion Ratio Lower Upper
43 100
72 0.9 14.6 43.8#



#23
Bromochloromethane
Concen: 1.818 ug/L
RT: 4.156 min Scan# 969
Delta R.T. 0.013 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion: 128 Resp: 2369
Ion Ratio Lower Upper
128 100
49 125.1 81.7 151.7
130 120.6 90.1 167.3
51 34.7 30.5 45.7





#25

Chloroform

Concen: 2.396 ug/L

RT: 4.275 min Scan# 1006

Delta R.T. 0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

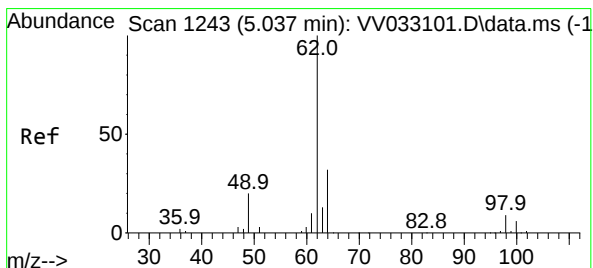
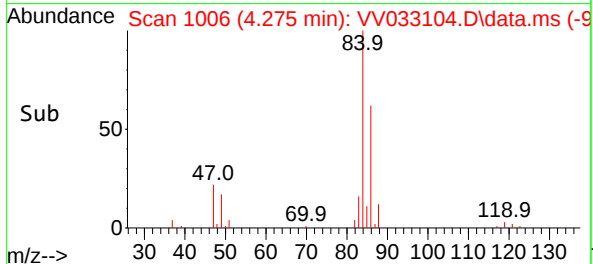
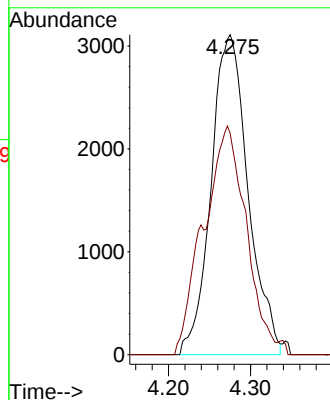
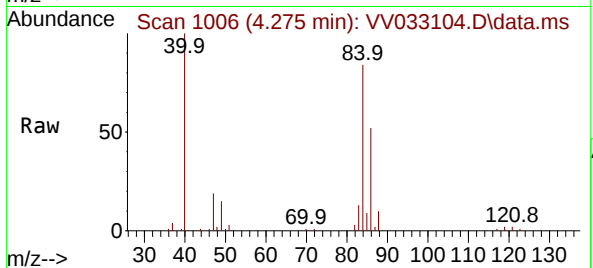
MDL-WATER-QT4-2023-08

Tgt Ion: 83 Resp: 9756

Ion Ratio Lower Upper

83 100

85 69.3 43.5 80.7



#27

1,2-Dichloroethane

Concen: 1.988 ug/L

RT: 5.053 min Scan# 1248

Delta R.T. 0.016 min

Lab File: VV033104.D

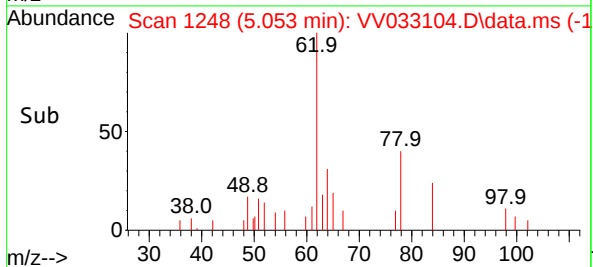
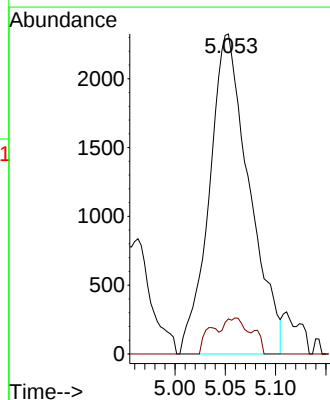
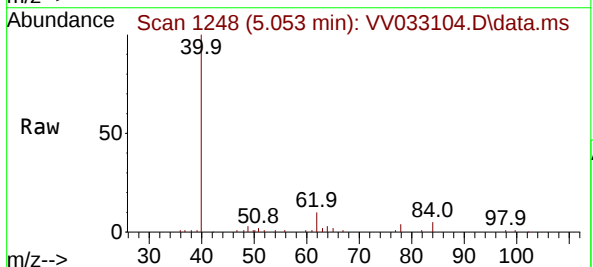
Acq: 05 Dec 2023 12:48

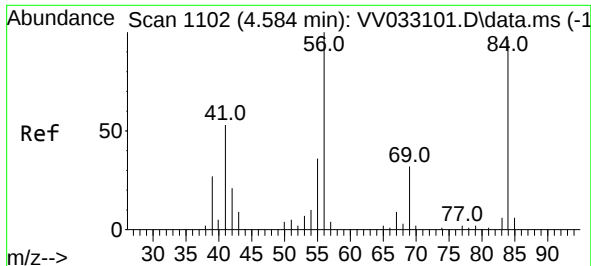
Tgt Ion: 62 Resp: 6395

Ion Ratio Lower Upper

62 100

98 10.9 7.8 11.8





#29

Cyclohexane

Concen: 1.993 ug/L

RT: 4.574 min Scan# 1099

Delta R.T. -0.006 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

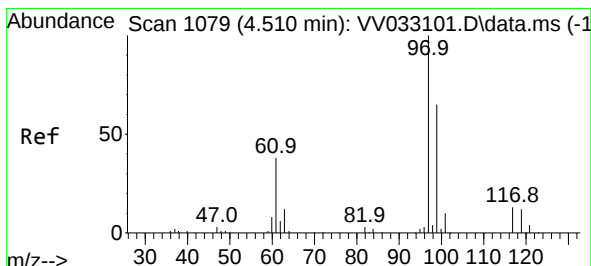
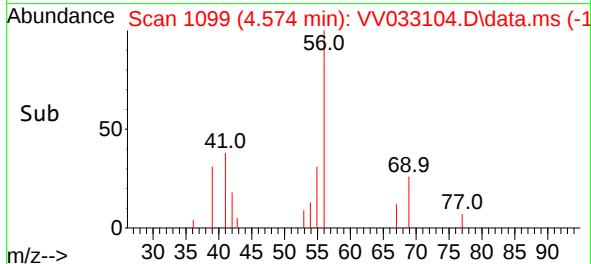
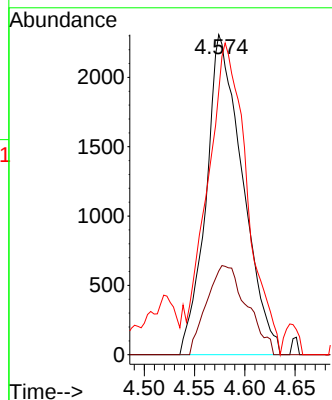
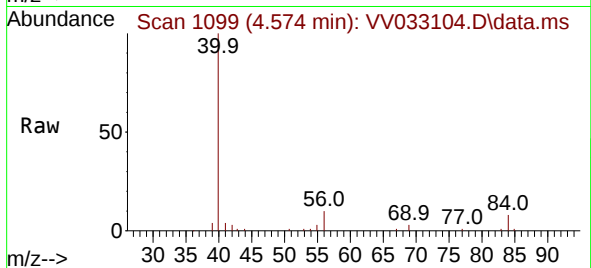
Tgt Ion: 56 Resp: 5830

Ion Ratio Lower Upper

56 100

69 29.8 26.9 40.3

84 104.9 80.6 121.0



#30

1,1,1-Trichloroethane

Concen: 1.993 ug/L

RT: 4.510 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

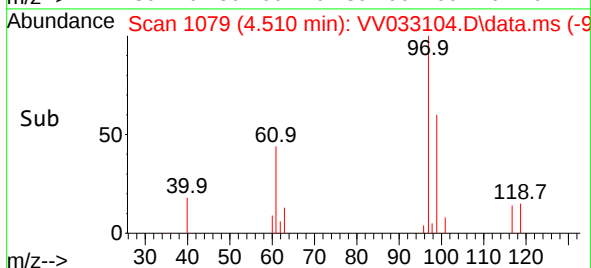
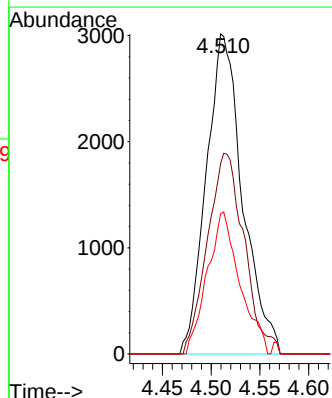
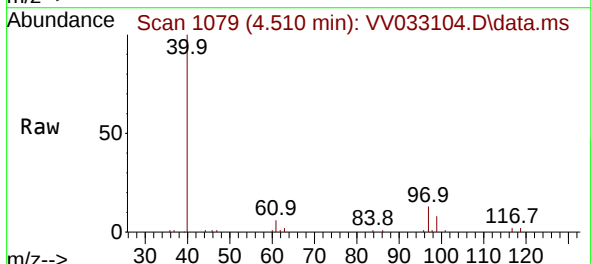
Tgt Ion: 97 Resp: 7802

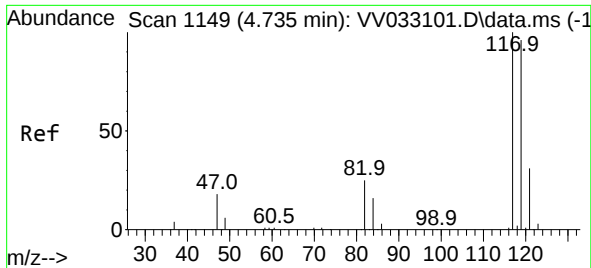
Ion Ratio Lower Upper

97 100

99 63.4 51.3 76.9

61 39.9 31.8 47.8

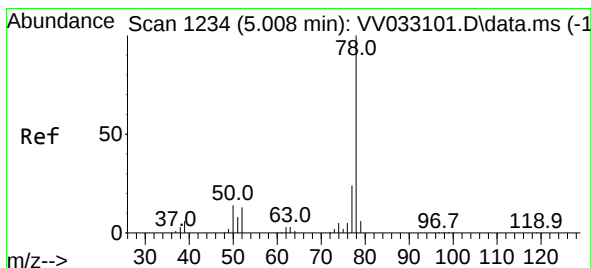
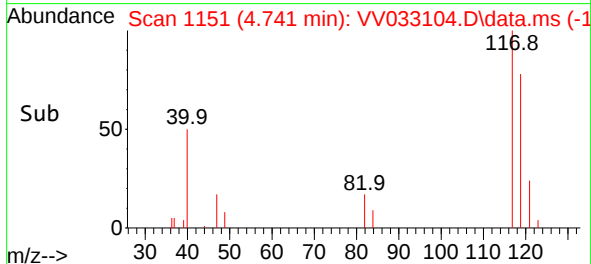
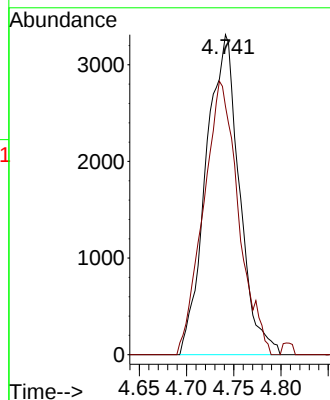
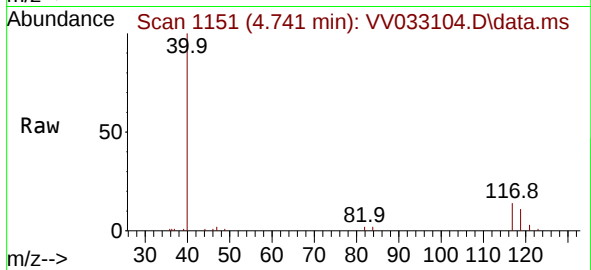




#31
Carbon tetrachloride
Concen: 2.234 ug/L
RT: 4.741 min Scan# 1149
Delta R.T. 0.007 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

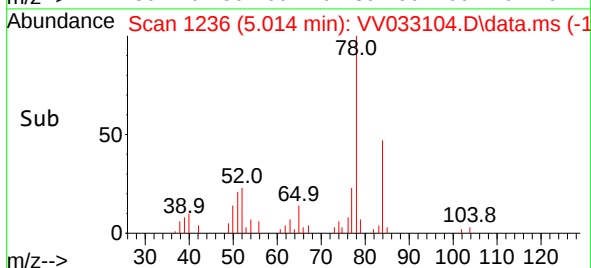
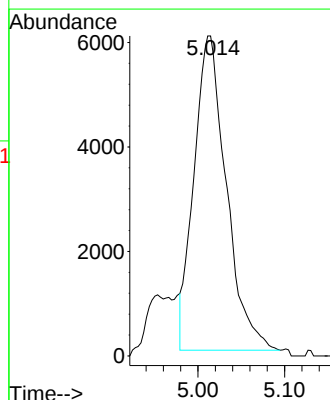
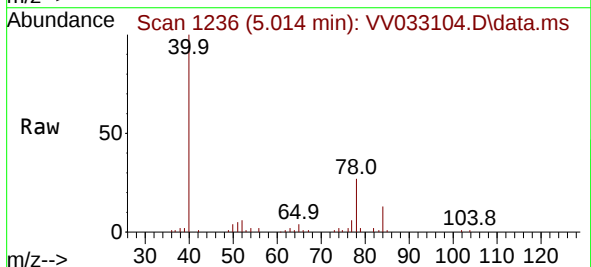
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2023-08

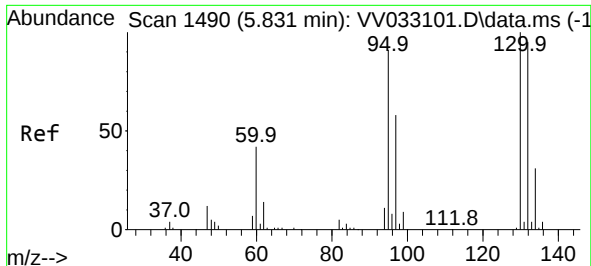
Tgt Ion:117 Resp: 8131
Ion Ratio Lower Upper
117 100
119 89.6 77.5 116.3



#33
Benzene
Concen: 1.940 ug/L
RT: 5.014 min Scan# 1236
Delta R.T. 0.007 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion: 78 Resp: 15571





#34

Trichloroethene

Concen: 2.054 ug/L m

RT: 5.844 min Scan# 1494

Delta R.T. 0.013 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

Tgt Ion: 95 Resp: 4926

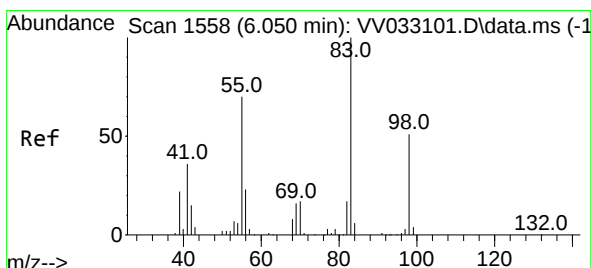
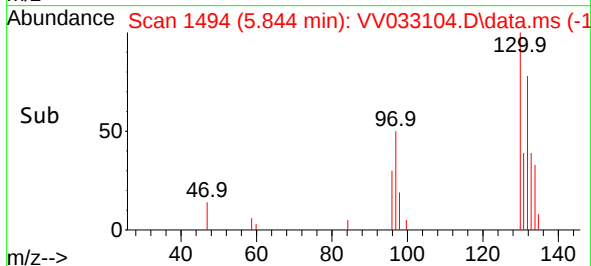
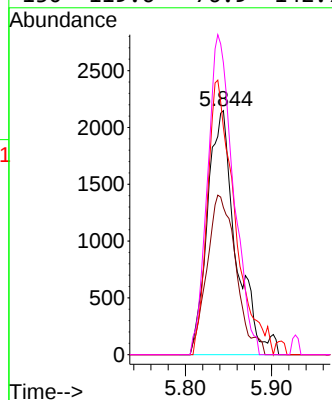
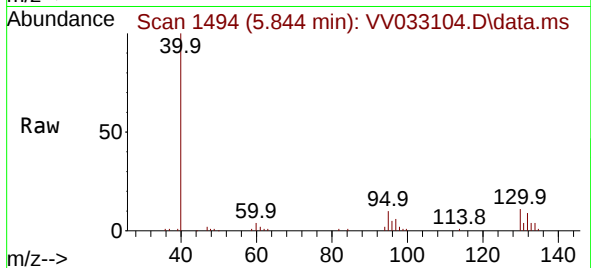
Ion Ratio Lower Upper

95 100

97 60.3 45.8 85.0

132 93.0 77.4 143.8

130 119.6 76.9 142.7



#35

Methylcyclohexane

Concen: 2.013 ug/L m

RT: 6.050 min Scan# 1558

Delta R.T. 0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

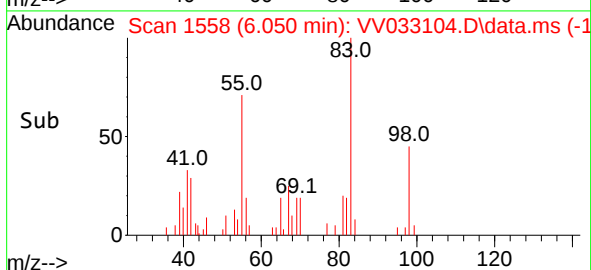
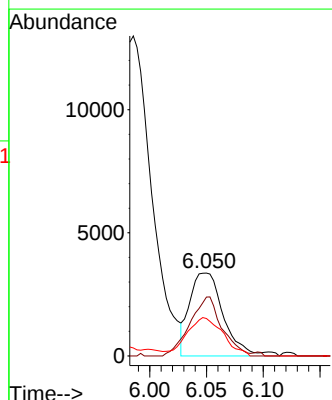
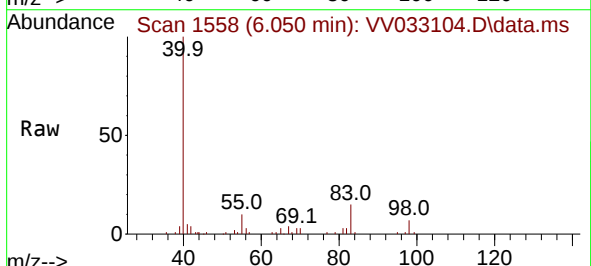
Tgt Ion: 83 Resp: 7004

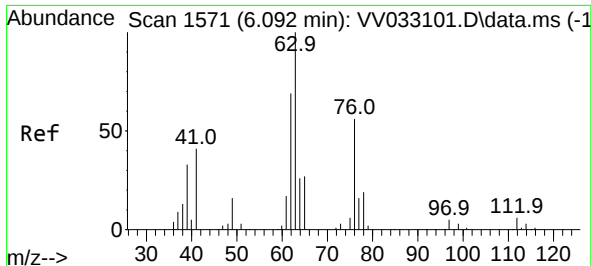
Ion Ratio Lower Upper

83 100

55 1.2 54.8 82.2#

98 0.0 41.4 62.0#





#37

1,2-Dichloropropane

Concen: 2.238 ug/L m

RT: 6.095 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

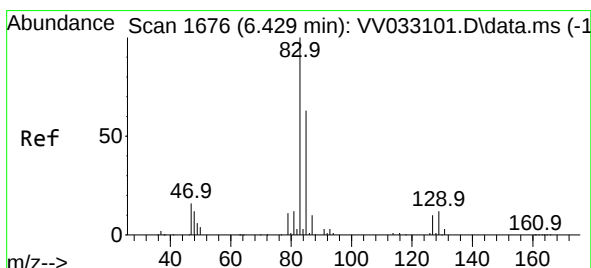
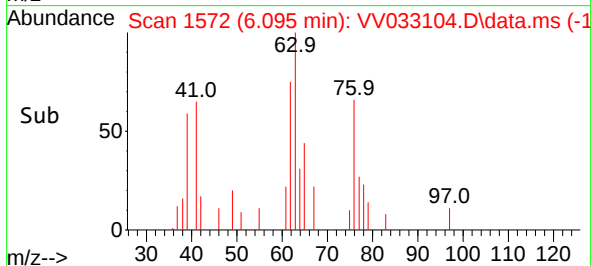
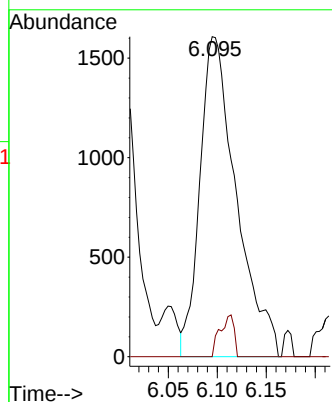
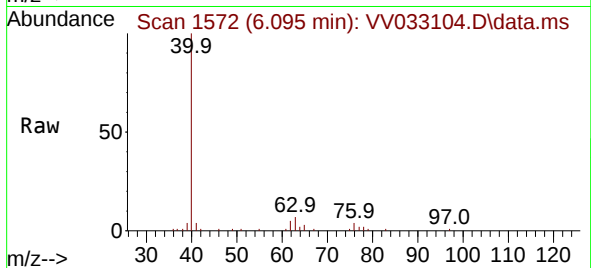
MDL-WATER-QT4-2023-08

Tgt Ion: 63 Resp: 4156

Ion Ratio Lower Upper

63 100

112 1.7 4.6 6.8#



#38

Bromodichloromethane

Concen: 2.153 ug/L

RT: 6.436 min Scan# 1678

Delta R.T. 0.007 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

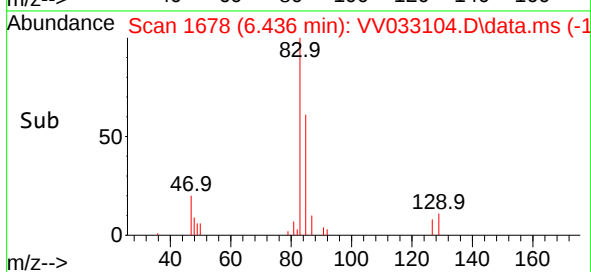
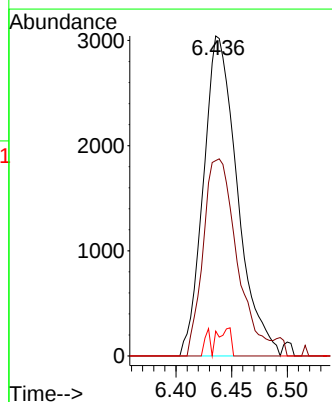
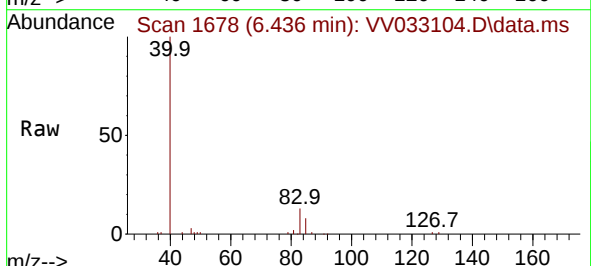
Tgt Ion: 83 Resp: 6447

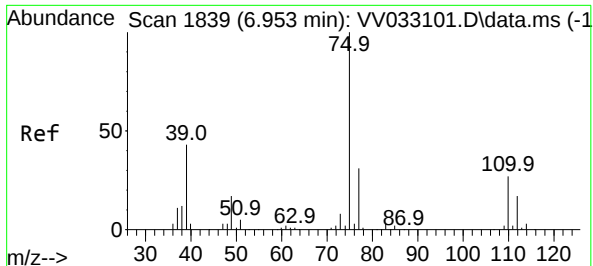
Ion Ratio Lower Upper

83 100

85 61.1 45.6 84.6

127 7.8 7.4 11.2





#39

cis-1,3-Dichloropropene

Concen: 1.984 ug/L

RT: 6.960 min Scan# 1841

Delta R.T. 0.010 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

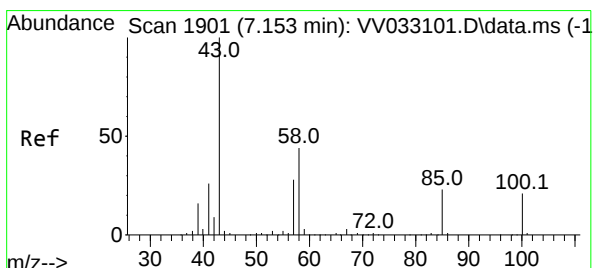
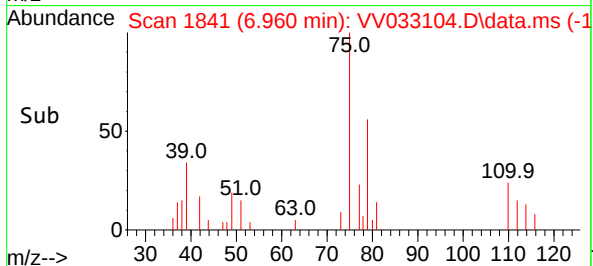
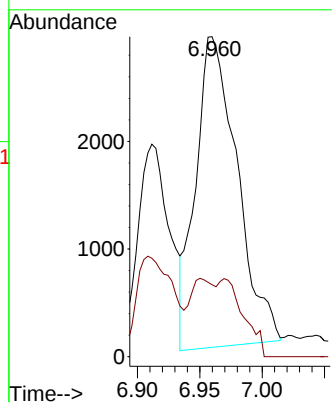
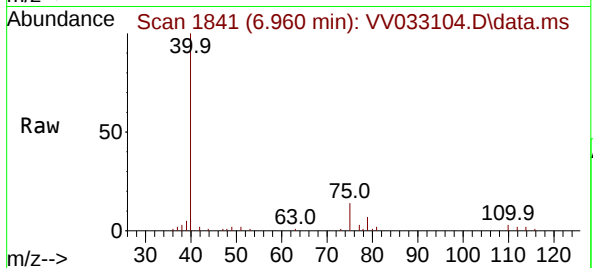
MDL-WATER-QT4-2023-08

Tgt Ion: 75 Resp: 6687

Ion Ratio Lower Upper

75 100

77 22.5 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 3.196 ug/L

RT: 7.166 min Scan# 1905

Delta R.T. 0.013 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

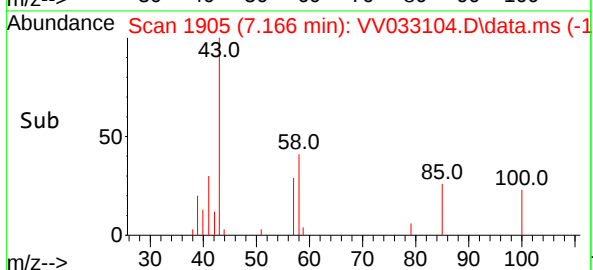
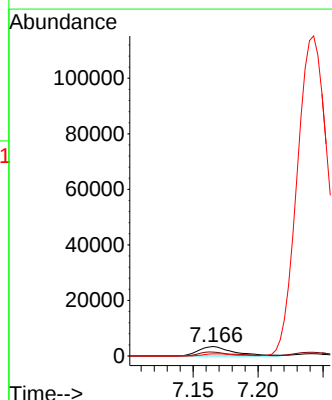
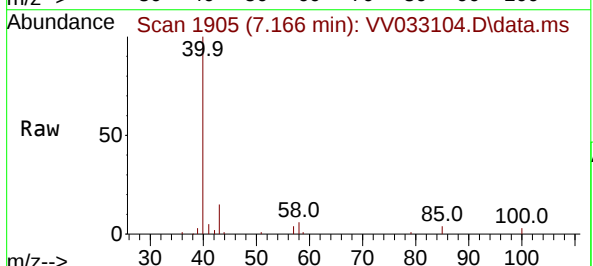
Tgt Ion: 43 Resp: 6303

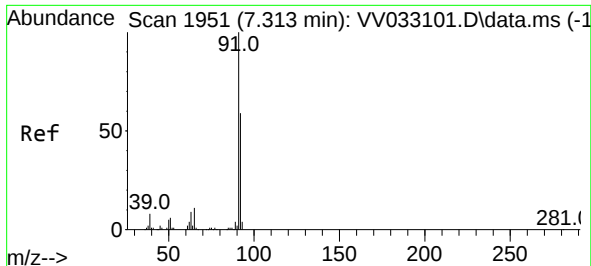
Ion Ratio Lower Upper

43 100

58 41.7 34.5 51.7

100 20.5 17.0 25.6





#42

Toluene

Concen: 1.984 ug/L

RT: 7.323 min Scan# 1951

Delta R.T. 0.010 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

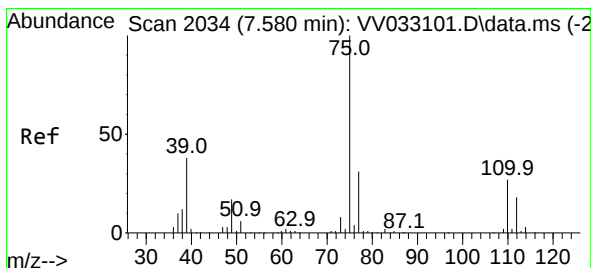
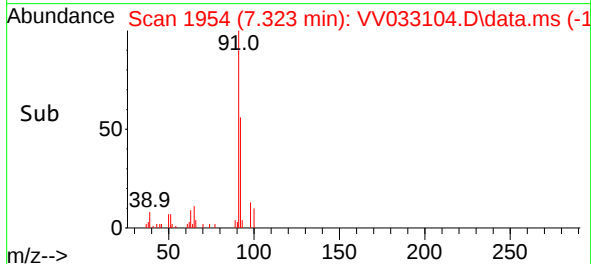
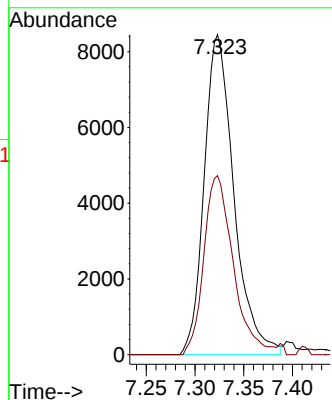
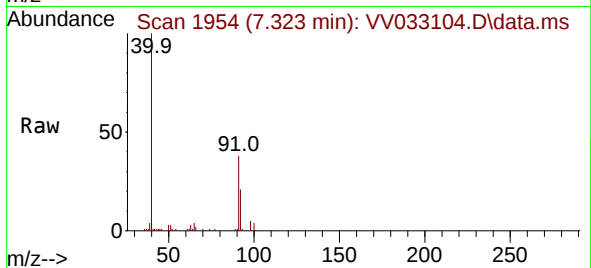
MDL-WATER-QT4-2023-08

Tgt Ion: 91 Resp: 17940

Ion Ratio Lower Upper

91 100

92 55.9 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 1.904 ug/L

RT: 7.590 min Scan# 2037

Delta R.T. 0.013 min

Lab File: VV033104.D

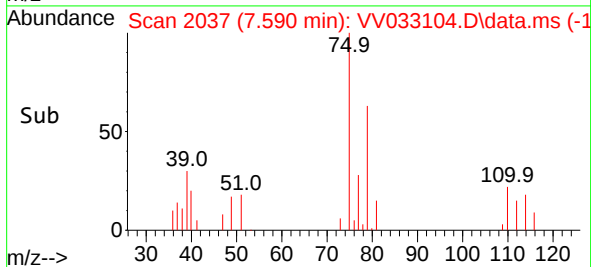
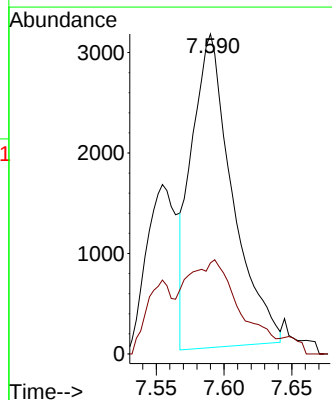
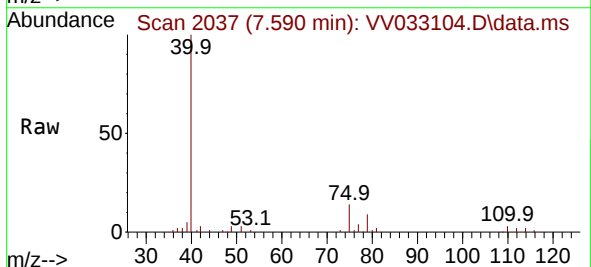
Acq: 05 Dec 2023 12:48

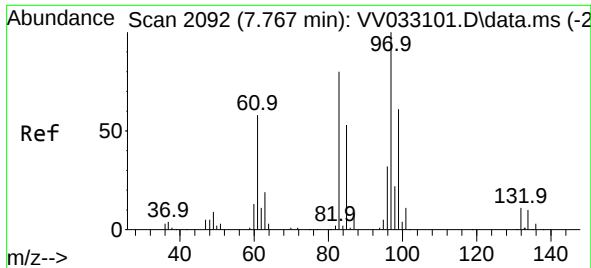
Tgt Ion: 75 Resp: 6488

Ion Ratio Lower Upper

75 100

77 28.4 22.0 41.0

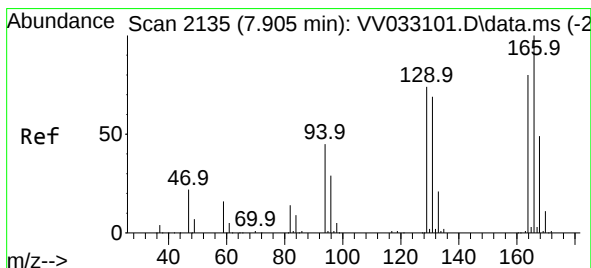
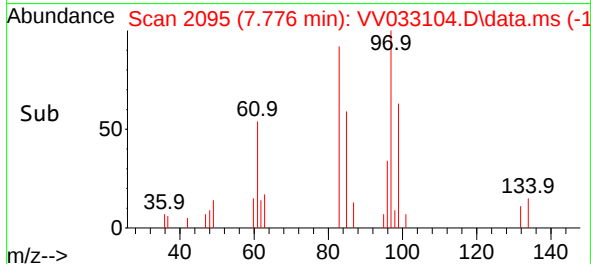
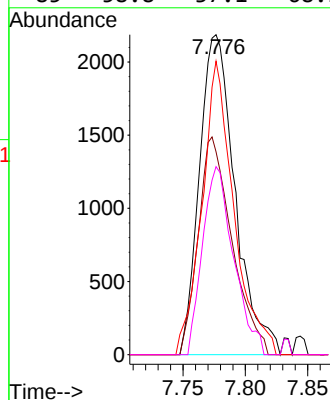
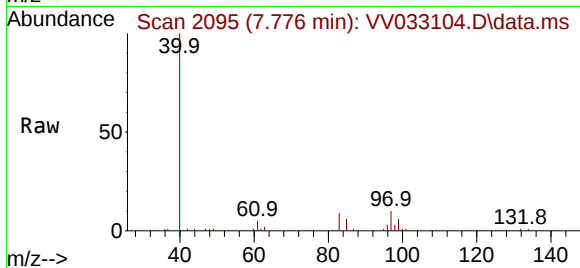




#45
1,1,2-Trichloroethane
Concen: 2.020 ug/L
RT: 7.776 min Scan# 2092
Delta R.T. 0.010 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

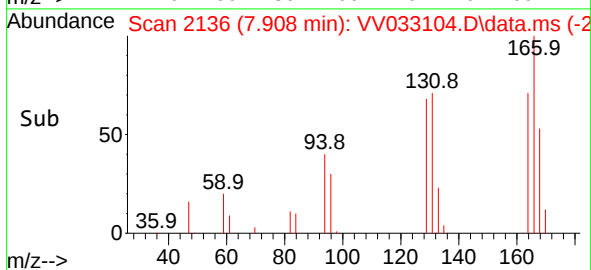
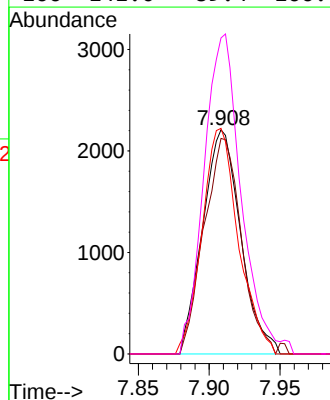
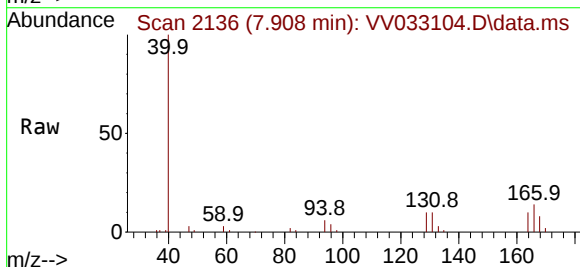
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2023-08

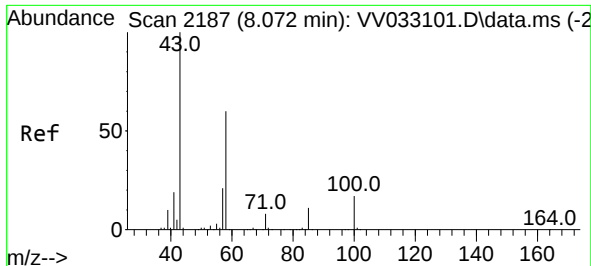
Tgt Ion: 97	Resp: 4350
Ion Ratio	Lower Upper
97 100	
99 63.4	43.2 80.2
83 91.7	55.8 103.6
85 58.8	37.1 68.9



#46
Tetrachloroethene
Concen: 2.003 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.003 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion:164	Resp: 4128
Ion Ratio	Lower Upper
164 100	
129 96.1	65.6 121.8
131 100.6	64.7 120.1
166 141.0	89.4 166.0

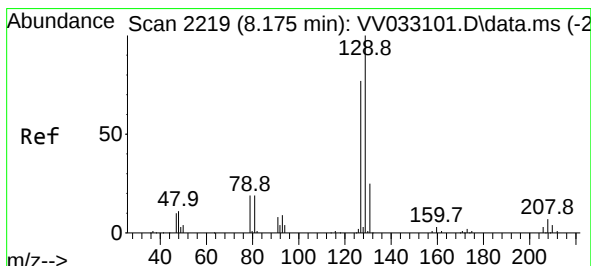
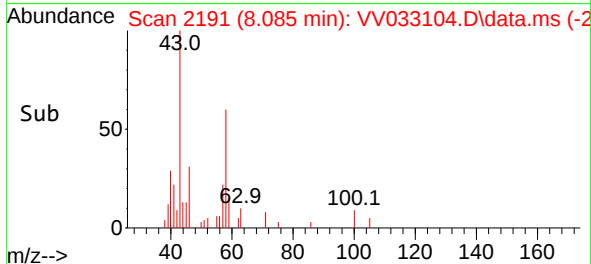
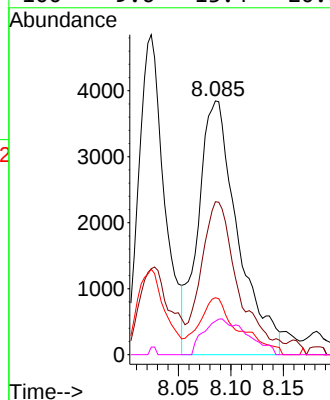
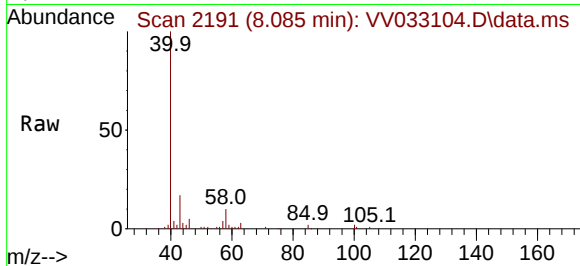




#48
2-Hexanone
Concen: 6.167 ug/L m
RT: 8.085 min Scan# 2187
Delta R.T. 0.013 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

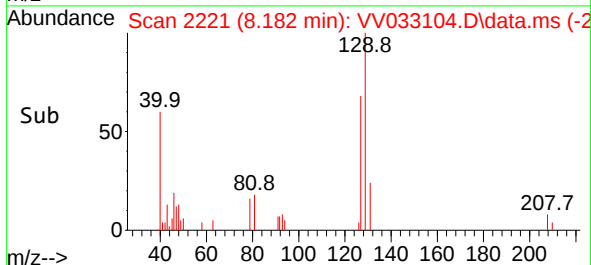
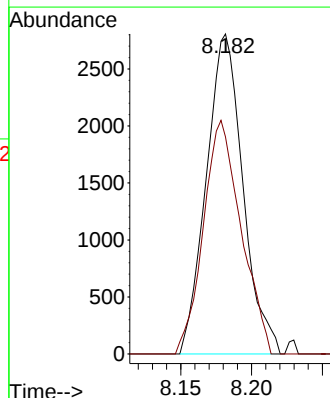
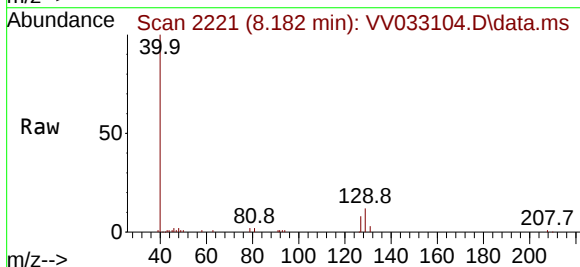
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2023-08

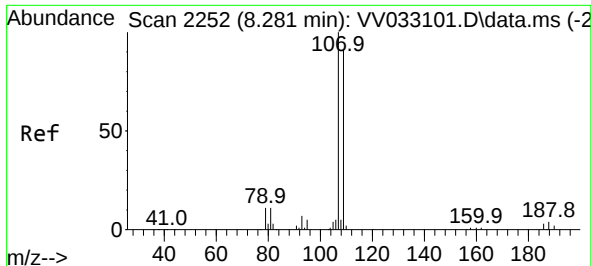
Tgt Ion: 43	Resp: 10083
Ion Ratio	Lower Upper
43 100	
58 35.9	47.9 71.9#
57 11.7	17.4 26.0#
100 9.6	13.4 20.0#



#49
Dibromochloromethane
Concen: 1.963 ug/L
RT: 8.182 min Scan# 2221
Delta R.T. 0.007 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion:129	Resp: 5046		
Ion Ratio	Lower	Upper	
129 100			
127 67.9	54.1	100.5	

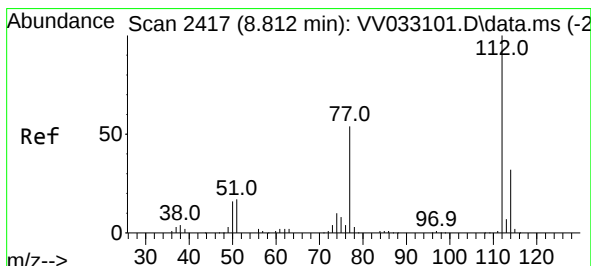
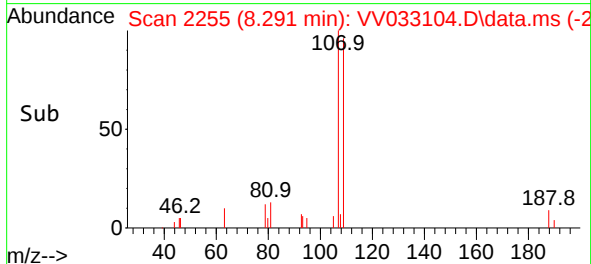
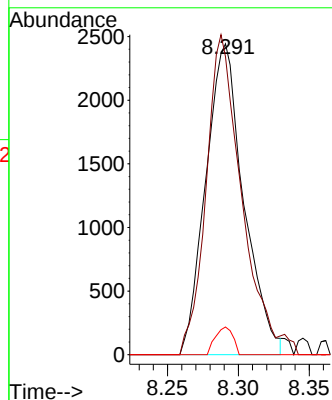
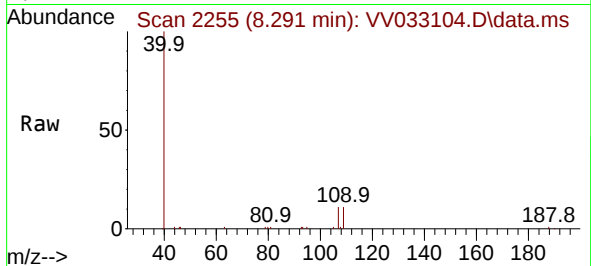




#50
1,2-Dibromoethane
Concen: 1.980 ug/L
RT: 8.291 min Scan# 2199
Delta R.T. 0.010 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

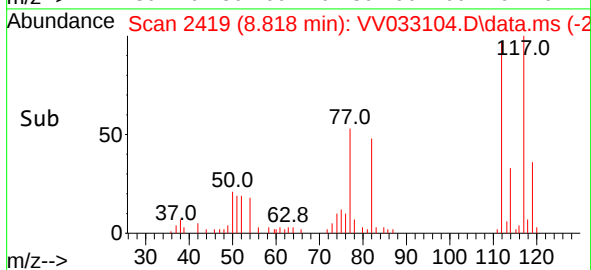
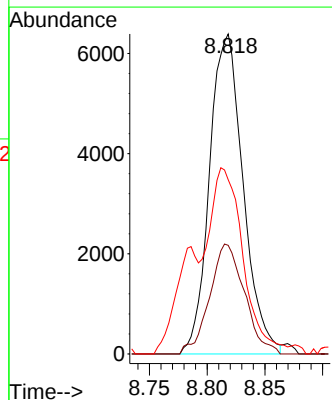
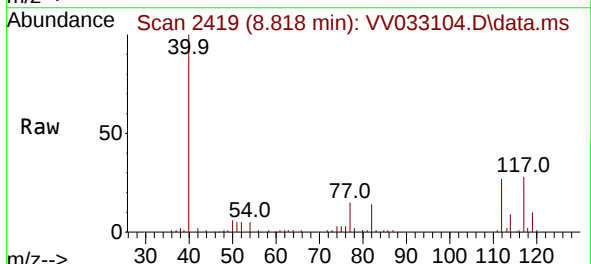
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2023-08

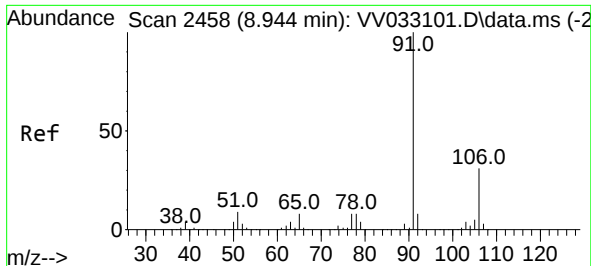
Tgt Ion:107 Resp: 4546
Ion Ratio Lower Upper
107 100
109 89.3 65.2 121.2
188 8.3 3.8 5.6#



#51
Chlorobenzene
Concen: 2.038 ug/L
RT: 8.818 min Scan# 2419
Delta R.T. 0.007 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion:112 Resp: 12959
Ion Ratio Lower Upper
112 100
114 33.9 22.9 42.5
77 54.4 42.6 64.0





#52

Ethylbenzene

Concen: 1.763 ug/L

RT: 8.950 min Scan# 2458

Delta R.T. 0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

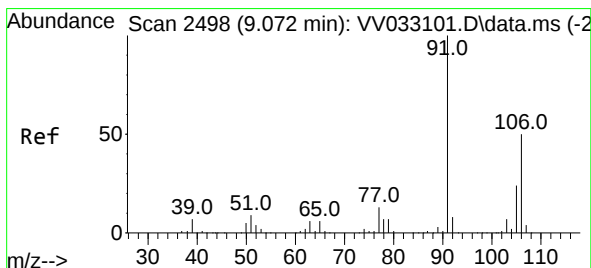
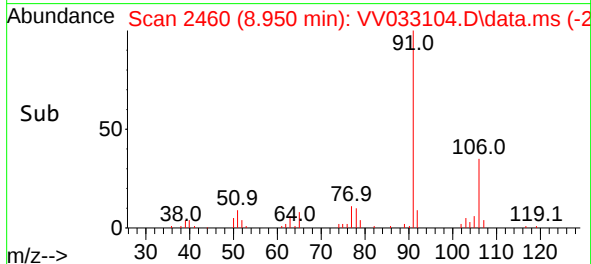
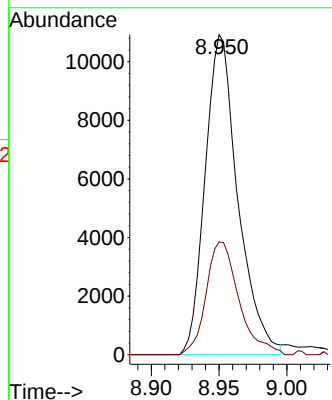
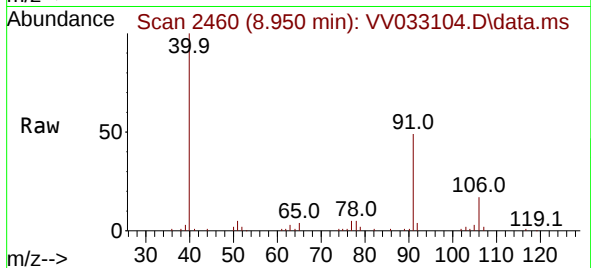
MDL-WATER-QT4-2023-08

Tgt Ion: 91 Resp: 18353

Ion Ratio Lower Upper

91 100

106 35.2 22.6 42.0



#53

m,p-Xylene

Concen: 1.753 ug/L

RT: 9.075 min Scan# 2499

Delta R.T. 0.003 min

Lab File: VV033104.D

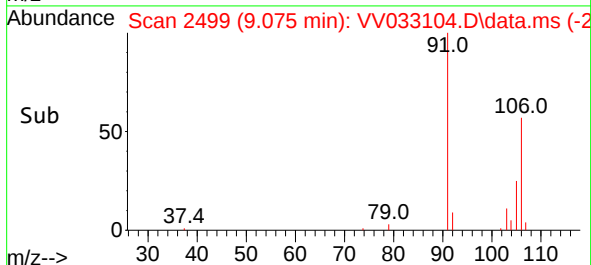
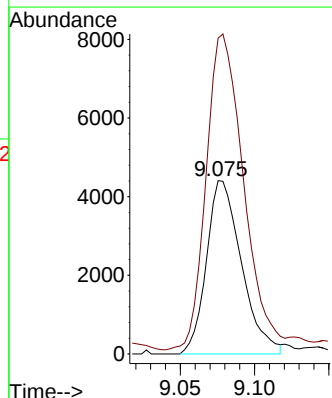
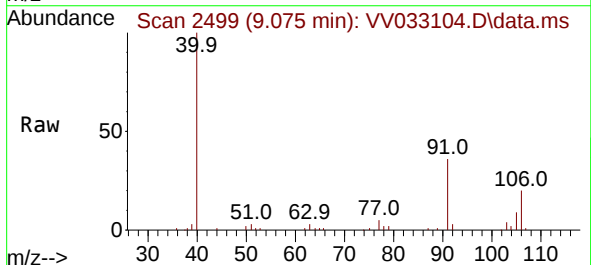
Acq: 05 Dec 2023 12:48

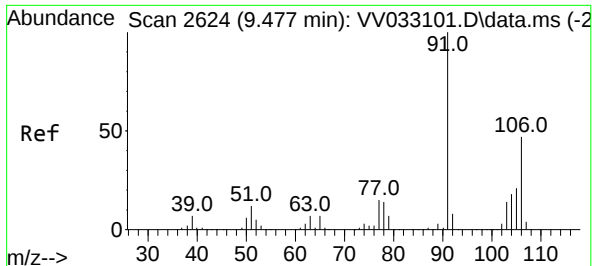
Tgt Ion: 106 Resp: 7227

Ion Ratio Lower Upper

106 100

91 182.2 145.2 269.6





#54

o-Xylene

Concen: 1.902 ug/L

RT: 9.484 min Scan# 2

Delta R.T. 0.007 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

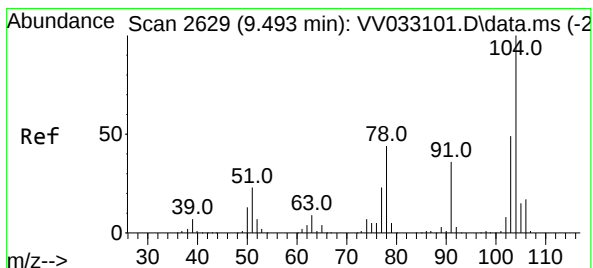
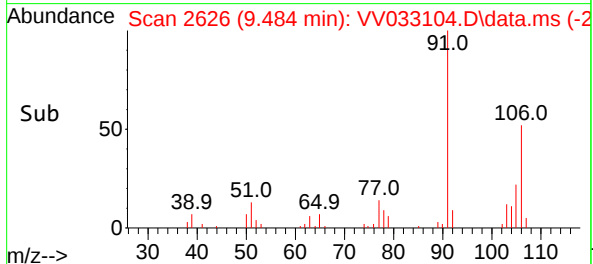
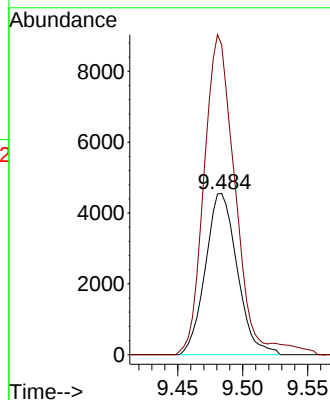
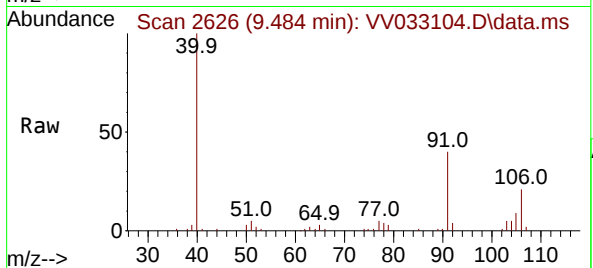
MDL-WATER-QT4-2023-08

Tgt Ion:106 Resp: 7736

Ion Ratio Lower Upper

106 100

91 192.2 147.8 274.6



#55

Styrene

Concen: 1.612 ug/L

RT: 9.503 min Scan# 2632

Delta R.T. 0.010 min

Lab File: VV033104.D

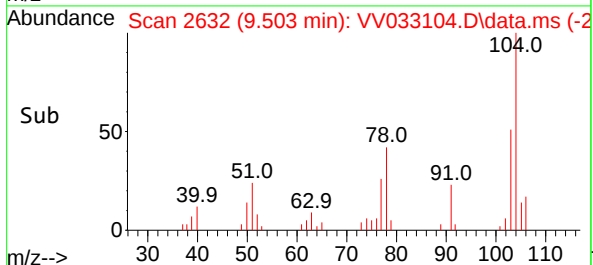
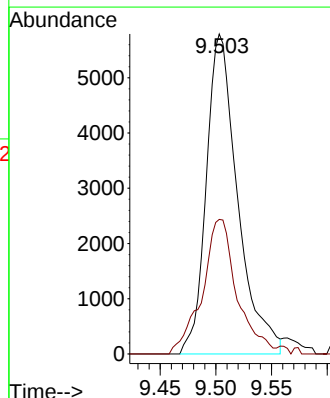
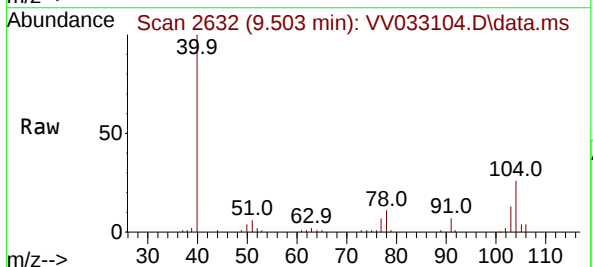
Acq: 05 Dec 2023 12:48

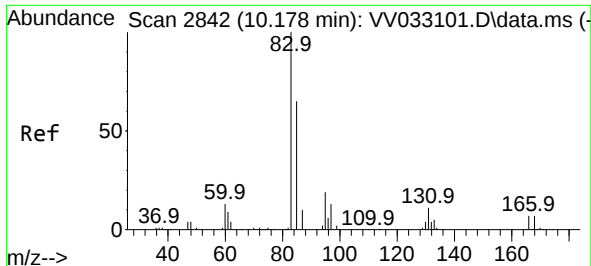
Tgt Ion:104 Resp: 11347

Ion Ratio Lower Upper

104 100

78 42.0 30.2 56.0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.156 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. -0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

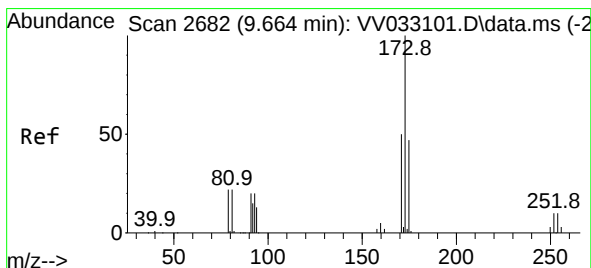
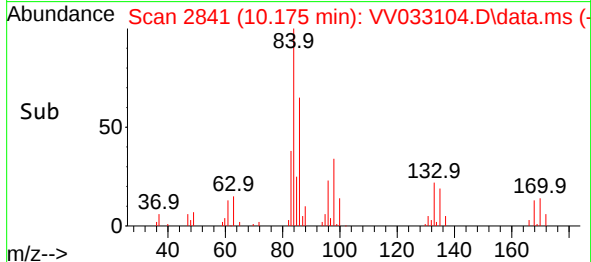
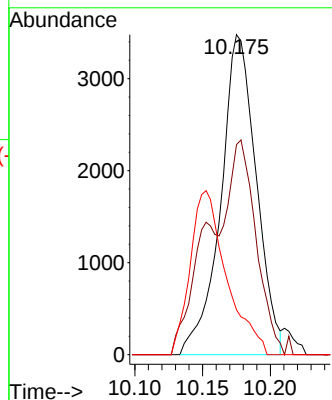
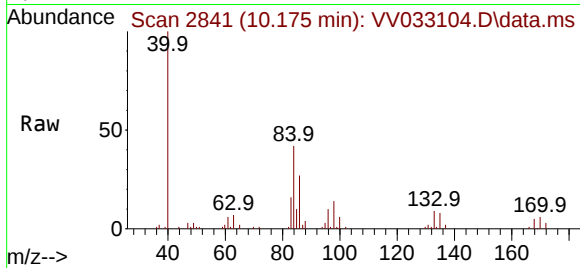
Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

Tgt Ion:	83	Resp:	6344
Ion	Ratio	Lower	Upper
83	100		
85	65.7	45.5	84.5
131	14.0	9.7	14.5



#59

Bromoform

Concen: 1.938 ug/L

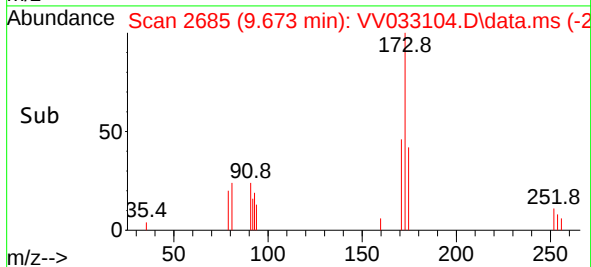
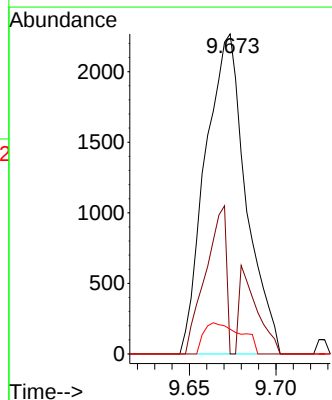
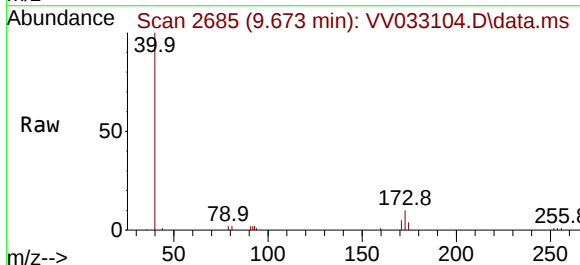
RT: 9.673 min Scan# 2685

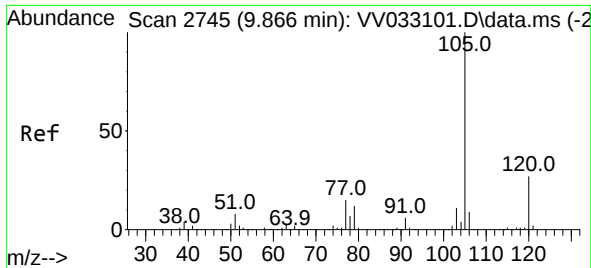
Delta R.T. 0.010 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Tgt Ion:	173	Resp:	3690
Ion	Ratio	Lower	Upper
173	100		
175	23.5	38.7	58.1#
254	7.5	8.0	12.0#

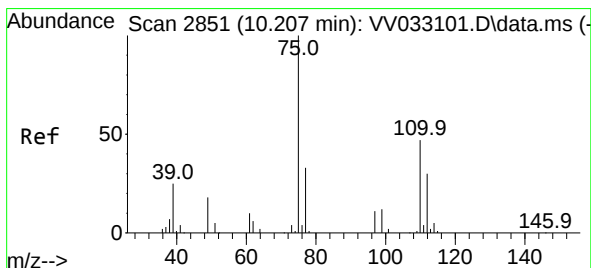
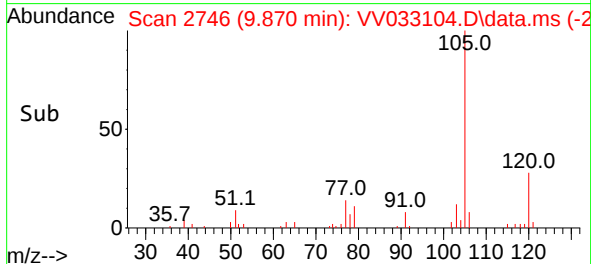
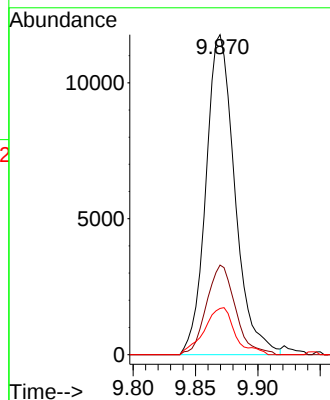
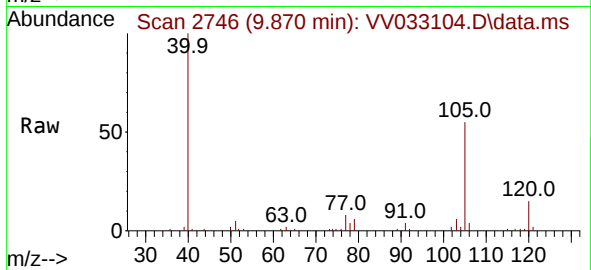




#60
Isopropylbenzene
Concen: 1.879 ug/L
RT: 9.870 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

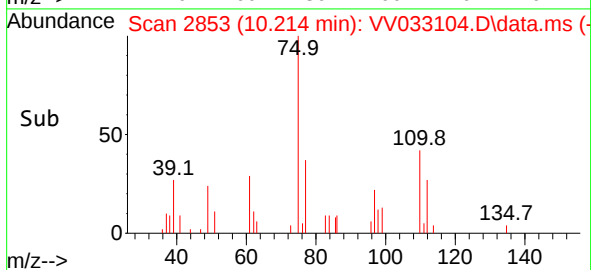
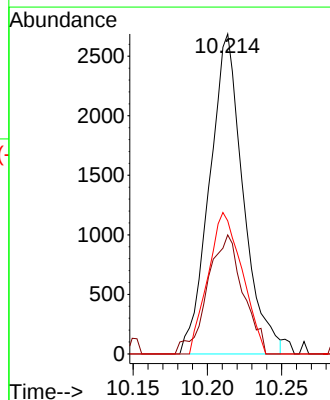
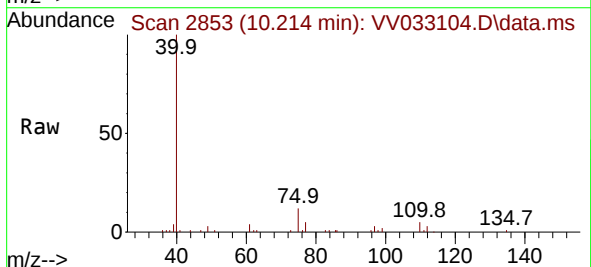
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2023-08

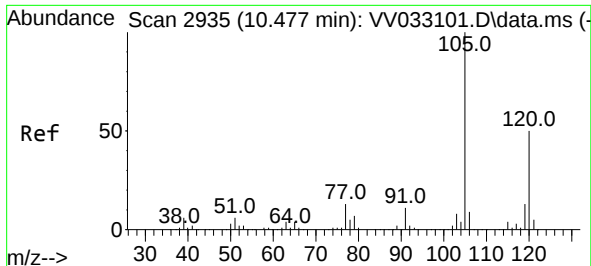
Tgt Ion:105 Resp: 19011
Ion Ratio Lower Upper
105 100
120 28.0 21.3 31.9
77 15.7 12.0 18.0



#61
1,2,3-Trichloropropane
Concen: 1.934 ug/L
RT: 10.214 min Scan# 2853
Delta R.T. 0.007 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion: 75 Resp: 4232
Ion Ratio Lower Upper
75 100
77 37.8 27.0 40.6
110 44.7 38.1 57.1





#62

1,3,5-Trimethylbenzene

Concen: 1.724 ug/L

RT: 10.477 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

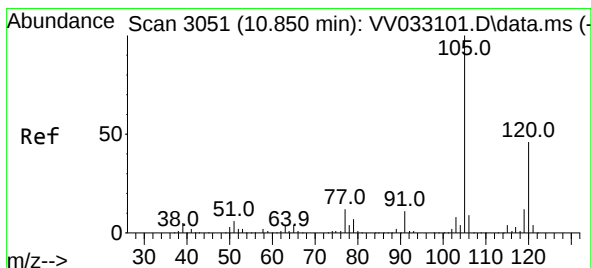
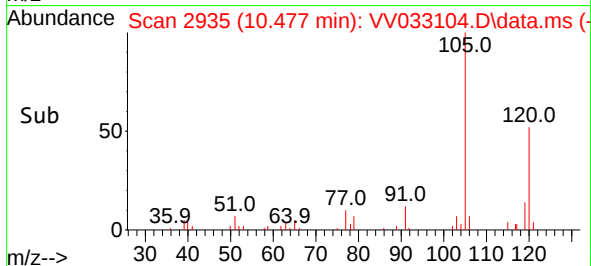
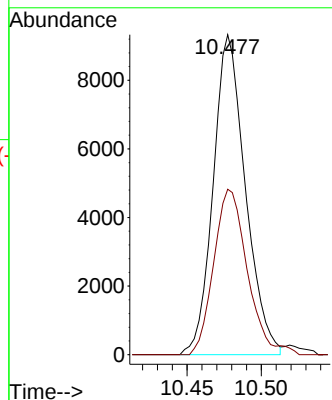
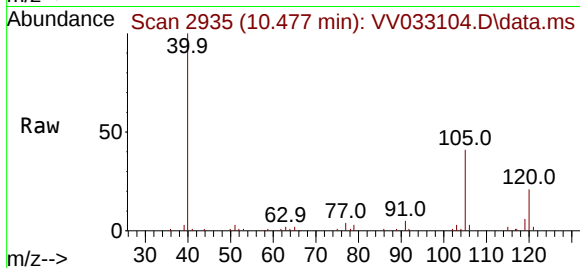
MDL-WATER-QT4-2023-08

Tgt Ion:105 Resp: 14052

Ion Ratio Lower Upper

105 100

120 52.9 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 1.744 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VV033104.D

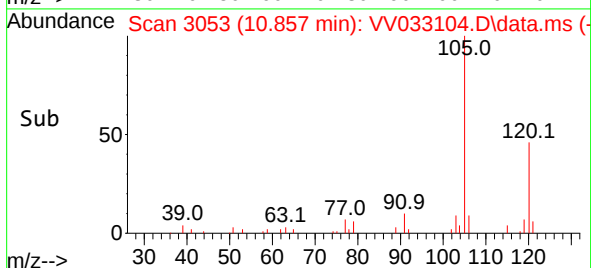
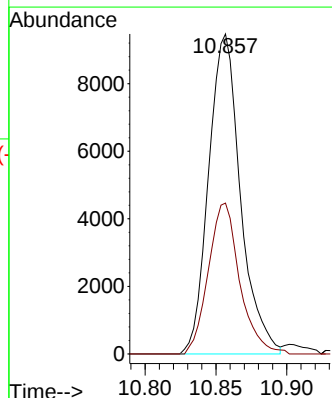
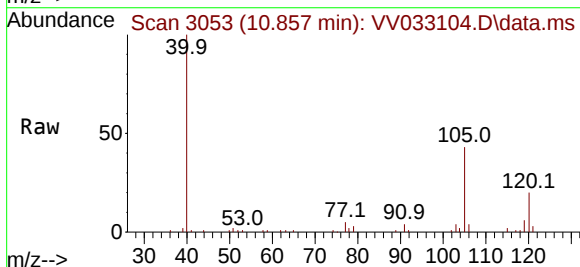
Acq: 05 Dec 2023 12:48

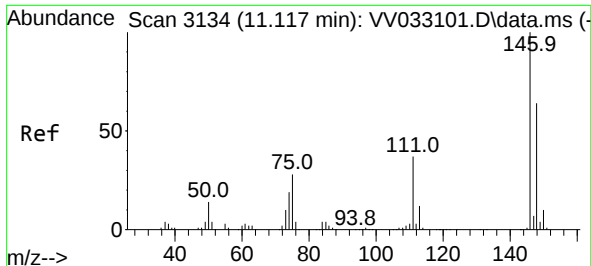
Tgt Ion:105 Resp: 14802

Ion Ratio Lower Upper

105 100

120 46.5 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 1.989 ug/L

RT: 11.124 min Scan# 3136

Delta R.T. 0.007 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

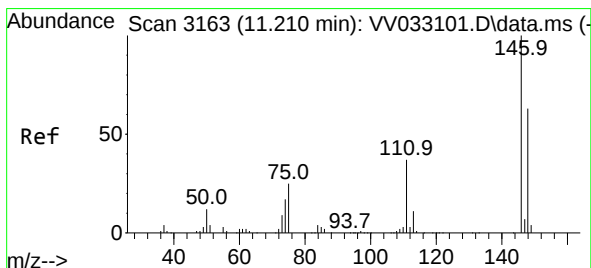
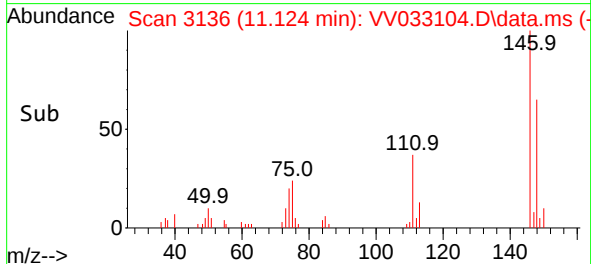
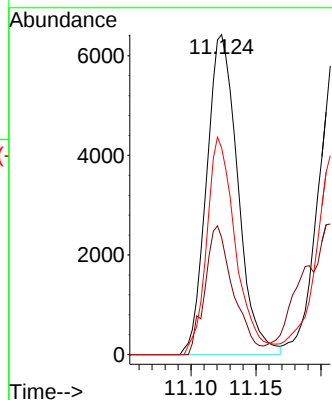
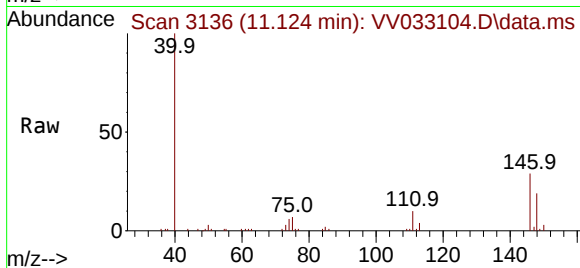
Tgt Ion:146 Resp: 10749

Ion Ratio Lower Upper

146 100

111 36.5 26.2 48.6

148 64.6 44.5 82.7



#65

1,4-Dichlorobenzene

Concen: 2.078 ug/L

RT: 11.210 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

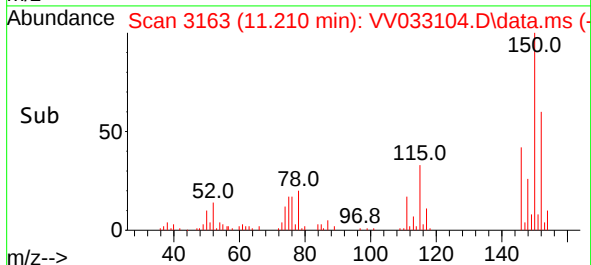
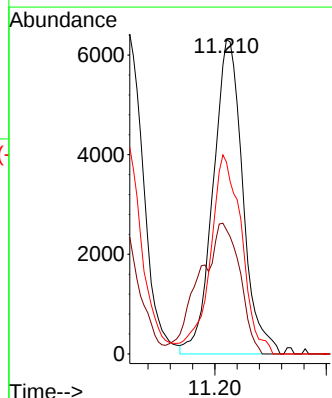
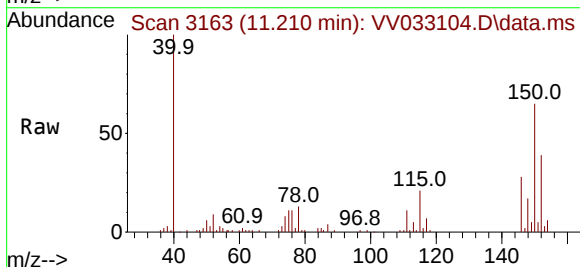
Tgt Ion:146 Resp: 11665

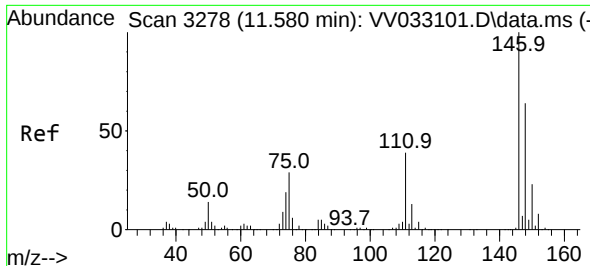
Ion Ratio Lower Upper

146 100

111 39.5 25.9 48.1

148 61.0 44.9 83.5

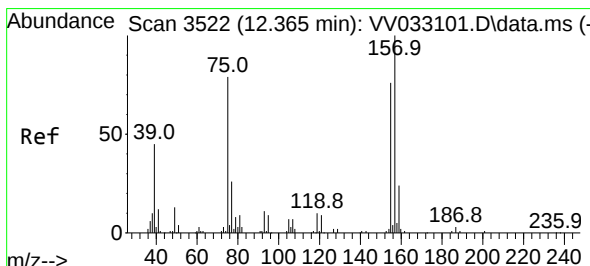
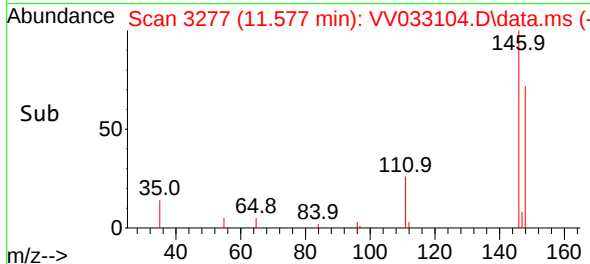
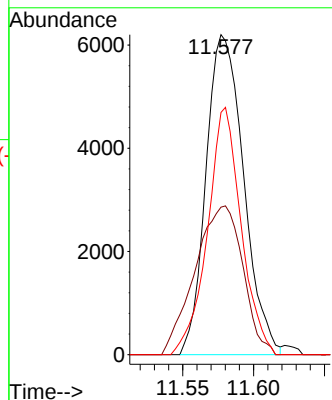
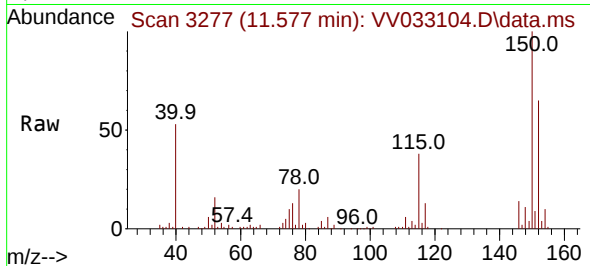




#67
1,2-Dichlorobenzene
Concen: 2.162 ug/L
RT: 11.577 min Scan# 311
Delta R.T. -0.003 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

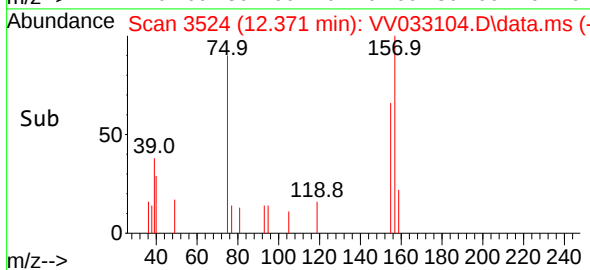
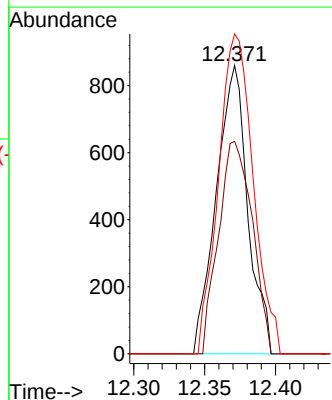
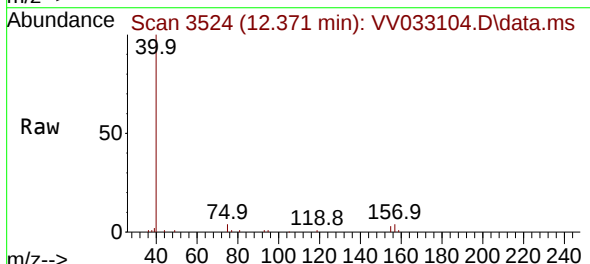
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2023-08

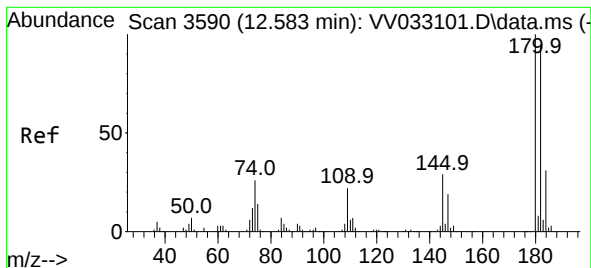
Tgt Ion:146 Resp: 11455
Ion Ratio Lower Upper
146 100
111 46.1 32.4 48.6
148 75.7 51.8 77.8



#68
1,2-Dibromo-3-chloropropane
Concen: 1.980 ug/L
RT: 12.371 min Scan# 3524
Delta R.T. 0.007 min
Lab File: VV033104.D
Acq: 05 Dec 2023 12:48

Tgt Ion: 75 Resp: 1329
Ion Ratio Lower Upper
75 100
155 73.7 75.8 113.6#
157 110.9 95.4 143.0





#69

1,3,5-Trichlorobenzene

Concen: 2.003 ug/L

RT: 12.583 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

Tgt Ion:180 Resp: 8672

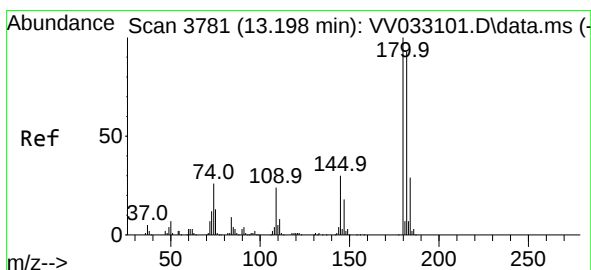
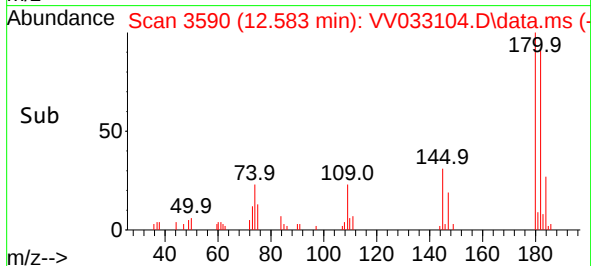
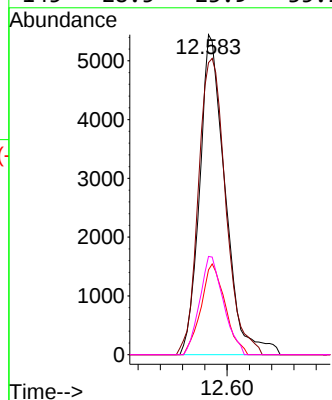
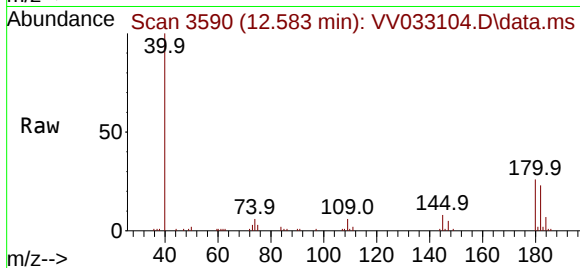
Ion Ratio Lower Upper

180 100

182 98.7 76.2 114.4

184 26.8 24.2 36.4

145 28.5 23.9 35.9



#70

1,2,4-trichlorobenzene

Concen: 1.971 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.007 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

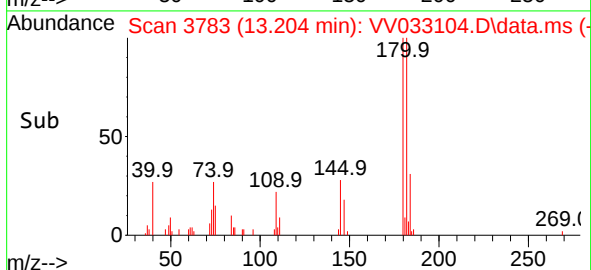
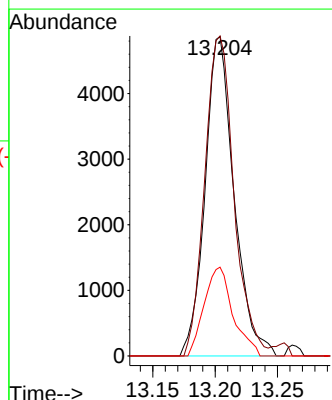
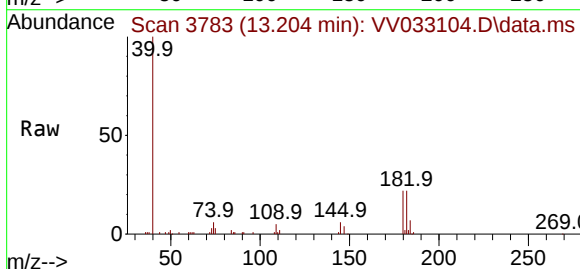
Tgt Ion:180 Resp: 7883

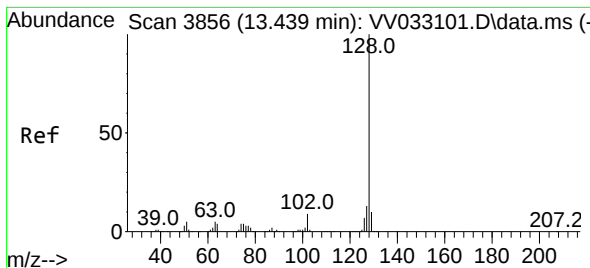
Ion Ratio Lower Upper

180 100

182 100.9 76.3 114.5

145 27.6 23.4 35.0





#71

Naphthalene

Concen: 1.792 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.007 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2023-08

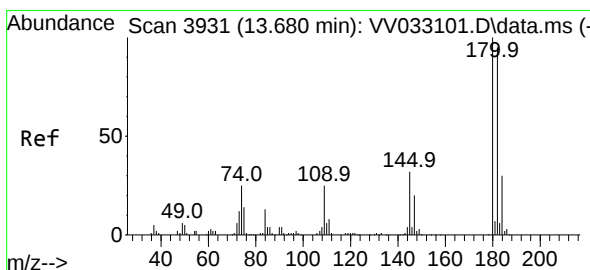
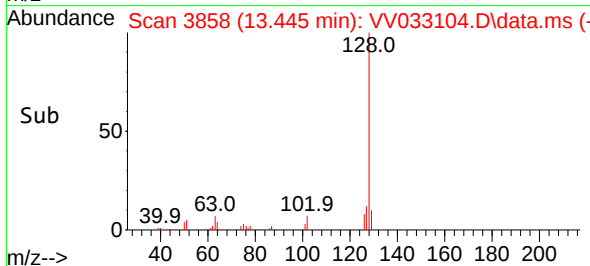
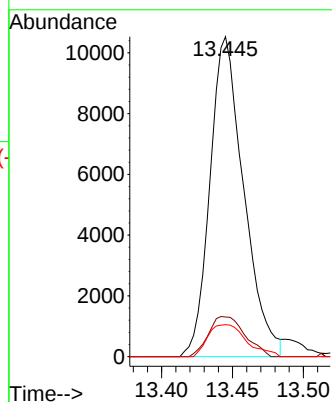
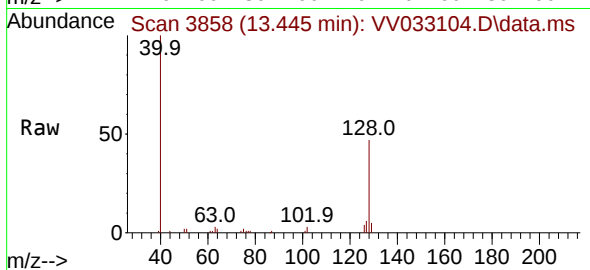
Tgt Ion:128 Resp: 17479

Ion Ratio Lower Upper

128 100

127 13.5 10.6 16.0

129 11.4 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 1.884 ug/L

RT: 13.683 min Scan# 3932

Delta R.T. 0.003 min

Lab File: VV033104.D

Acq: 05 Dec 2023 12:48

Tgt Ion:180 Resp: 7271

Ion Ratio Lower Upper

180 100

182 100.5 75.2 112.8

145 31.7 24.9 37.3

