

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036172.D
 Acq On : 15 Jun 2023 16:15
 Operator : JC/MD
 Sample : 03278-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW5A-IDWGW-20230614

Quant Time: Jun 16 07:56:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

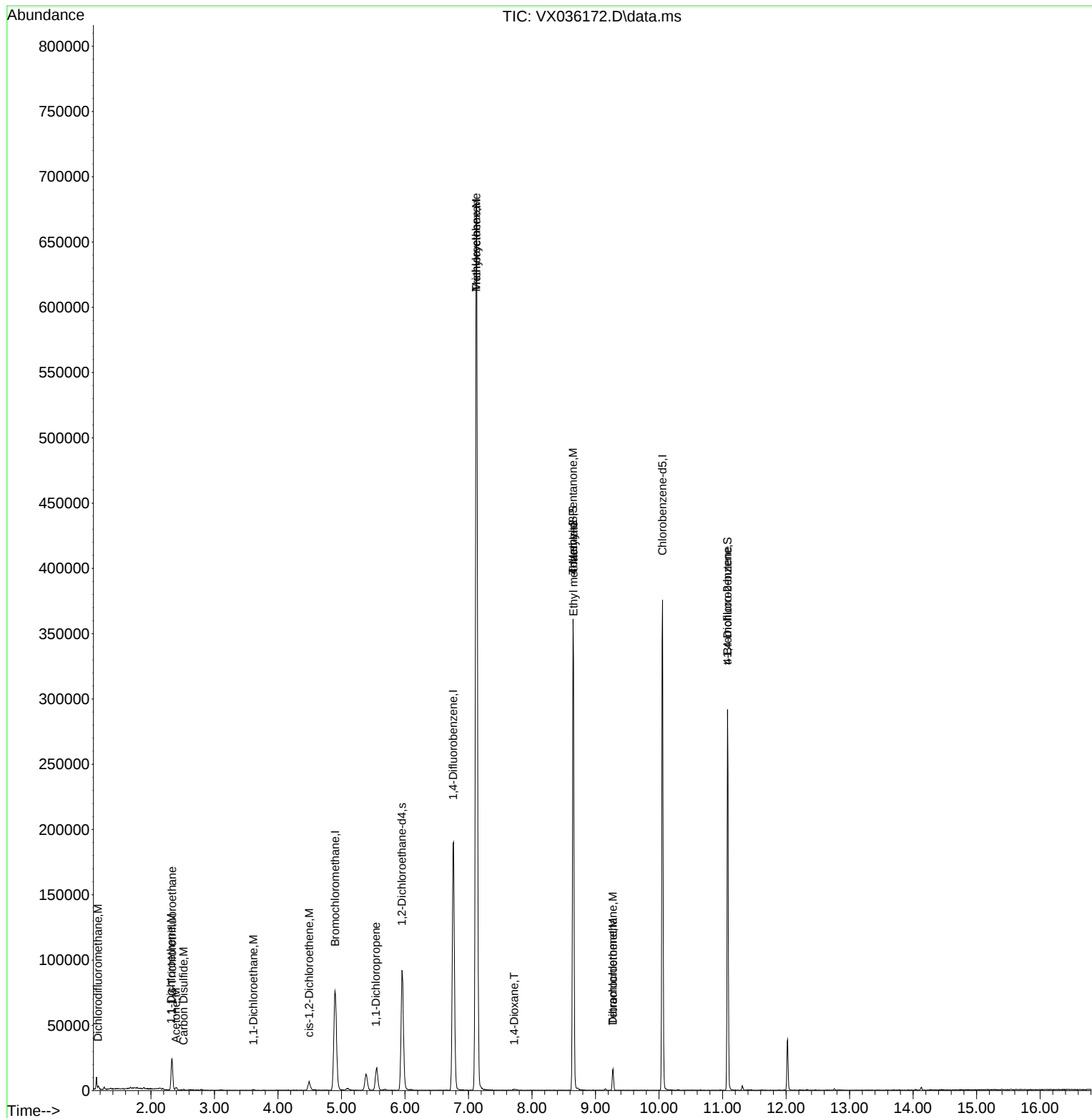
Internal Standards						
1) Bromochloromethane	4.897	128	29392	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	179137	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155475	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	93761	38.393	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	127.967%#
60) 4-Bromofluorobenzene	11.079	95	76833	29.451	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.167%
63) Toluene-d8	8.647	98	201082	29.256	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.533%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	506	0.337	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	8108	5.737	ug/l	100
10) 1,1-Dichloroethene	2.319	96	1352	0.918	ug/l	83
15) Acetone	2.392	58	476	1.525	ug/l	92
16) Carbon Disulfide	2.514	76	770	0.241	ug/l #	91
21) 1,1-Dichloroethane	3.611	63	949	0.282	ug/l #	82
22) cis-1,2-Dichloroethene	4.489	96	4053	1.972	ug/l	85
29) 1,1-Dichloropropene	5.544	75	825	0.331	ug/l #	41
37) Trichloroethene	7.123	130	245628	124.173	ug/l	88
38) Methylcyclohexane	7.123	83	3390	1.239	ug/l #	1
45) 1,4-Dioxane	7.720	88	563	11.677	ug/l	88
51) Ethyl methacrylate	8.653	69	710	0.225	ug/l	92
53) Dibromochloromethane	9.275	129	2347	1.249	ug/l #	10
58) 4-Methyl-2-Pentanone	8.647	43	1048	0.347	ug/l #	1
61) Tetrachloroethene	9.275	164	2465	1.646	ug/l #	78
77) t-1,4-Dichloro-2-butene	11.079	75	42451	52.715	ug/l #	4

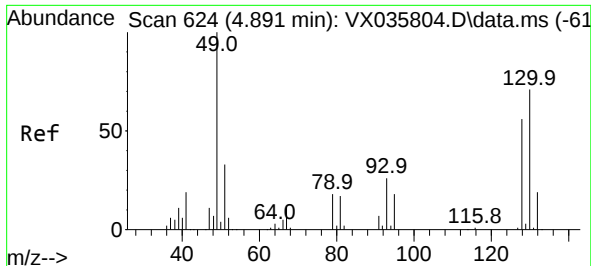
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.897 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

Instrument :

MSVOA_X

ClientSampleId :

RW5A-IDW/GW-20230614

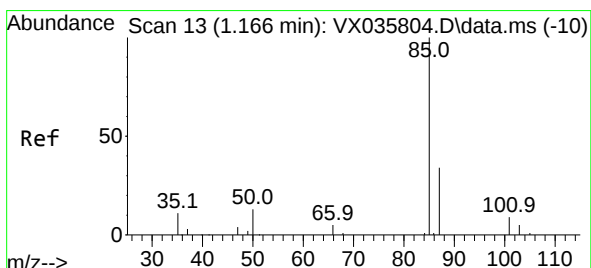
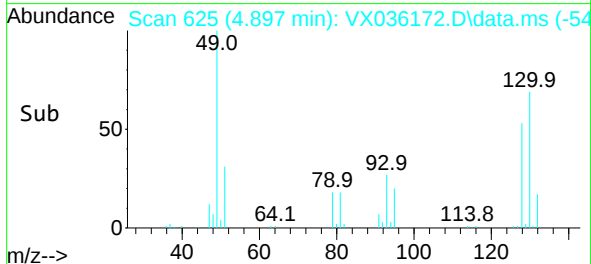
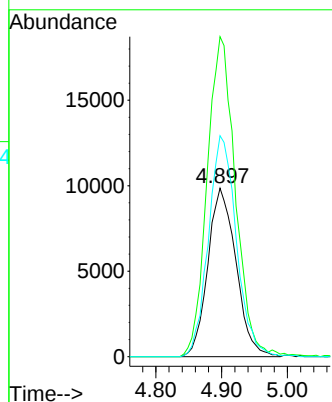
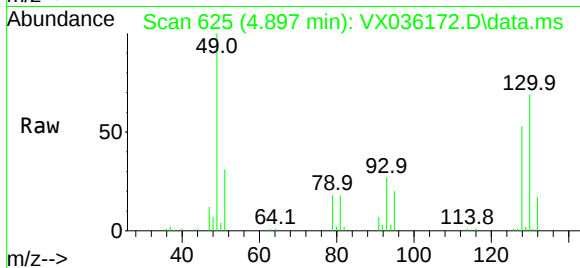
Tgt Ion:128 Resp: 29392

Ion Ratio Lower Upper

128 100

49 188.4 0.0 428.8

130 130.0 0.0 310.8



#2

Dichlorodifluoromethane

Concen: 0.337 ug/l

RT: 1.166 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX036172.D

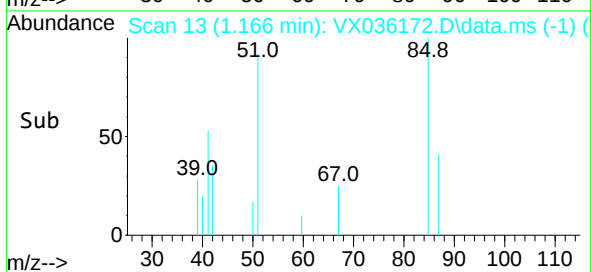
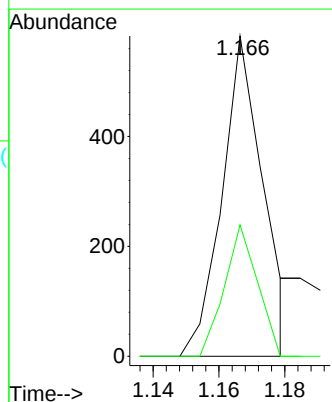
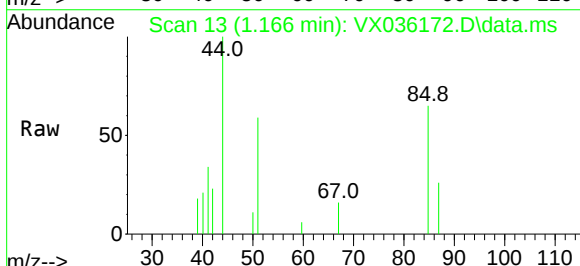
Acq: 15 Jun 2023 16:15

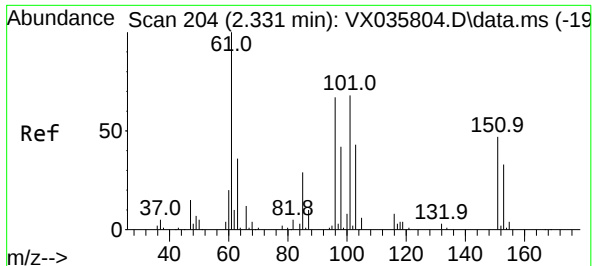
Tgt Ion: 85 Resp: 506

Ion Ratio Lower Upper

85 100

87 41.0 16.0 48.0

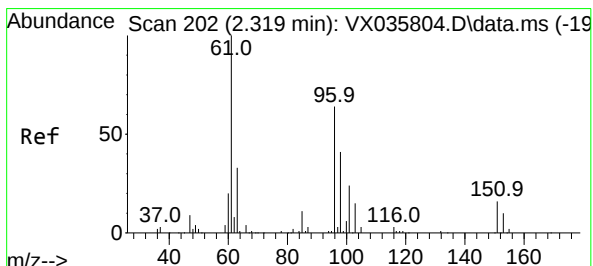
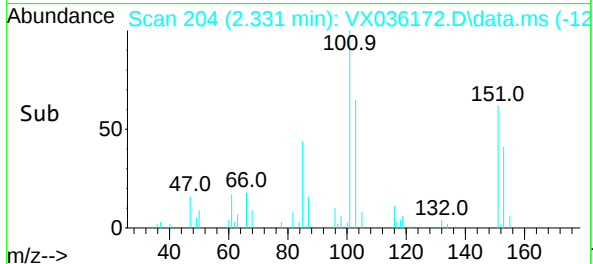
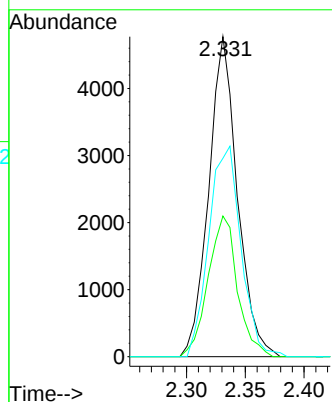
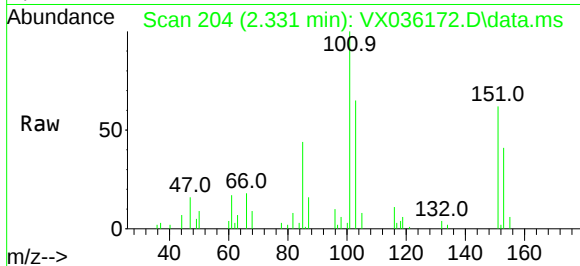




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.737 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

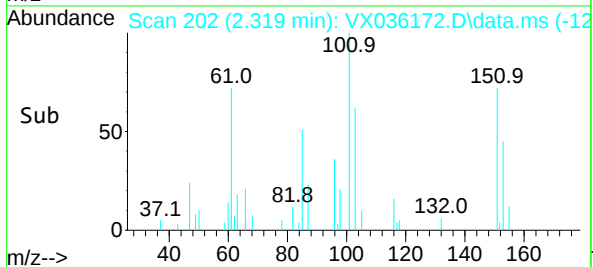
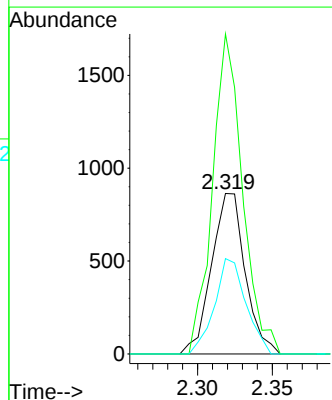
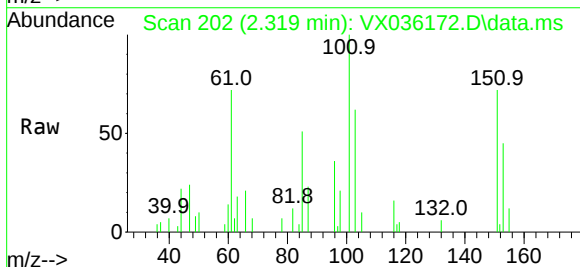
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

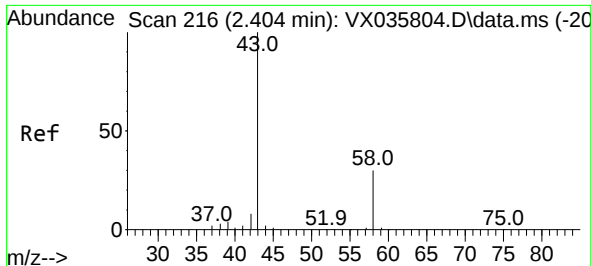
Tgt Ion:101 Resp: 8108
Ion Ratio Lower Upper
101 100
85 44.9 0.0 88.8
151 73.7 0.0 147.6



#10
1,1-Dichloroethene
Concen: 0.918 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Tgt Ion: 96 Resp: 1352
Ion Ratio Lower Upper
96 100
61 199.4 135.8 203.6
98 59.4 49.8 74.6





#15

Acetone

Concen: 1.525 ug/l

RT: 2.392 min Scan# 216

Delta R.T. -0.012 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

Instrument :

MSVOA_X

ClientSampleId :

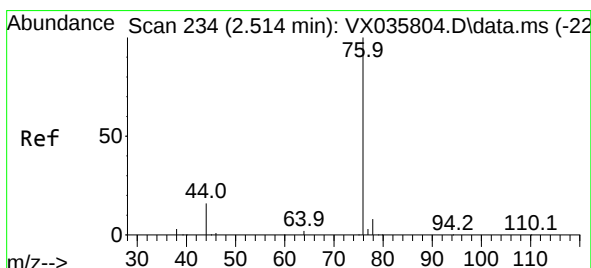
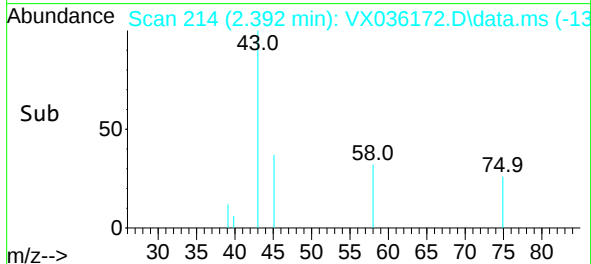
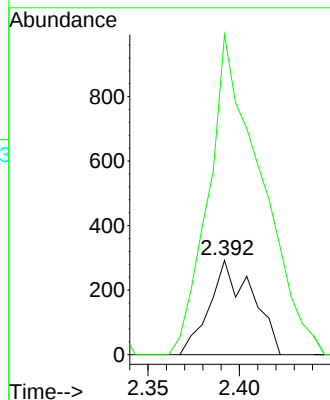
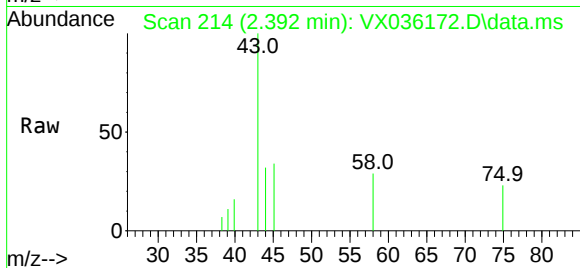
RW5A-IDW/GW-20230614

Tgt Ion: 58 Resp: 476

Ion Ratio Lower Upper

58 100

43 321.2 270.8 406.2



#16

Carbon Disulfide

Concen: 0.241 ug/l

RT: 2.514 min Scan# 234

Delta R.T. 0.000 min

Lab File: VX036172.D

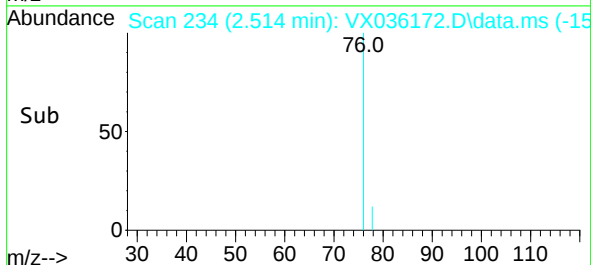
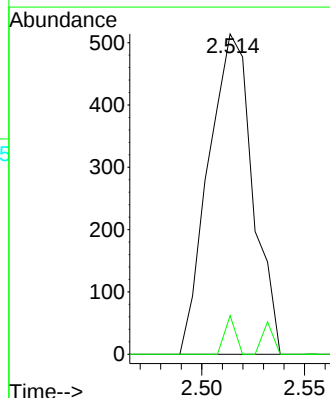
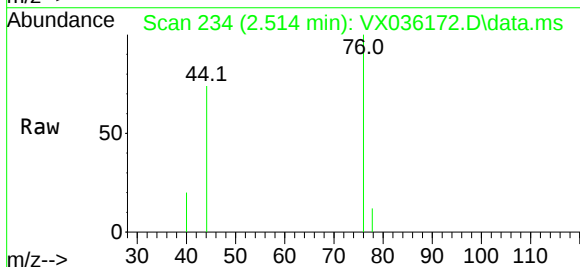
Acq: 15 Jun 2023 16:15

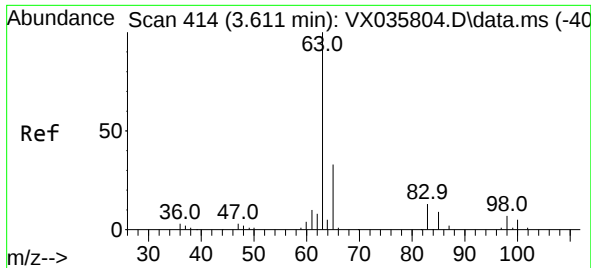
Tgt Ion: 76 Resp: 770

Ion Ratio Lower Upper

76 100

78 12.1 7.0 10.6#

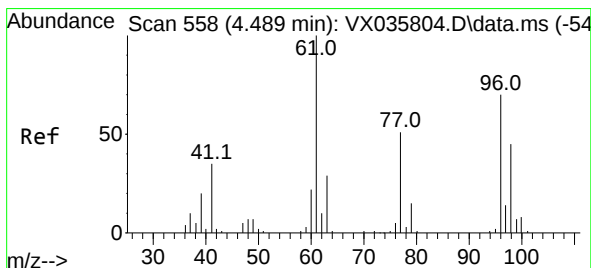
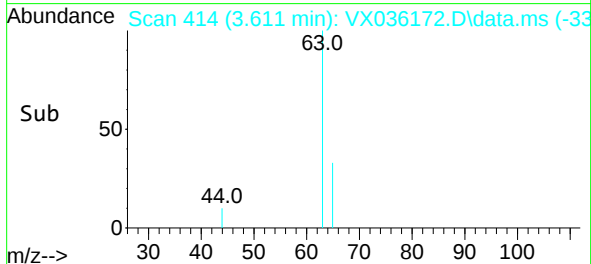
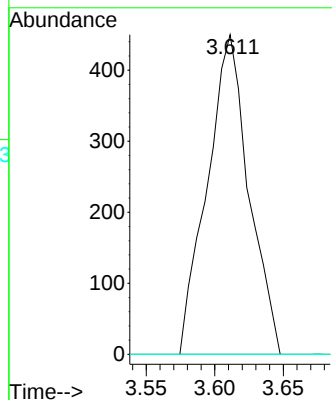
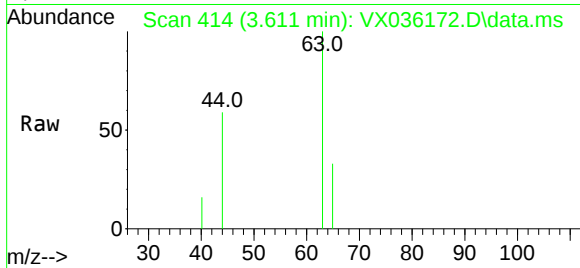




#21
1,1-Dichloroethane
Concen: 0.282 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

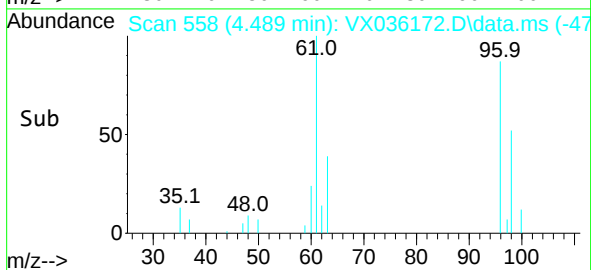
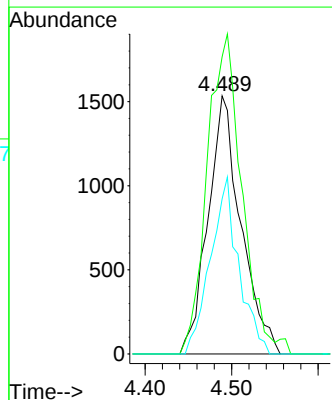
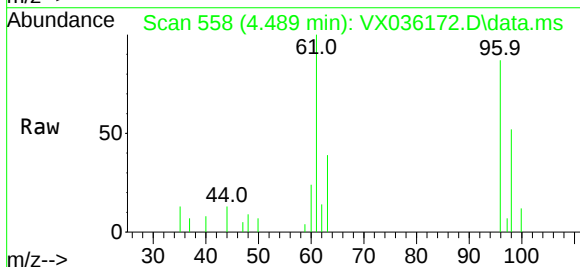
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

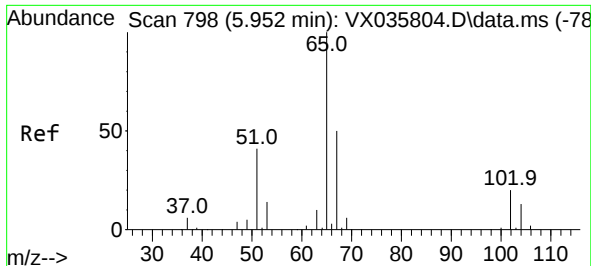
Tgt Ion: 63 Resp: 949
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.6#
100 0.0 2.2 6.6#



#22
cis-1,2-Dichloroethene
Concen: 1.972 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Tgt Ion: 96 Resp: 4053
Ion Ratio Lower Upper
96 100
61 129.1 121.7 182.5
98 58.9 52.2 78.2





#27

1,2-Dichloroethane-d4

Concen: 38.393 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

Instrument :

MSVOA_X

ClientSampleId :

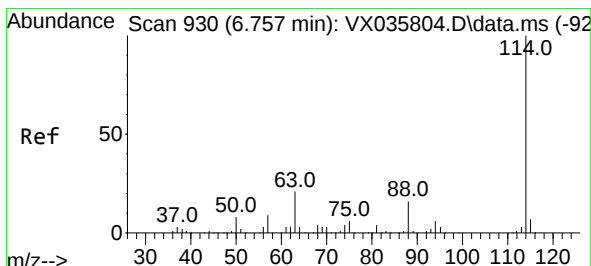
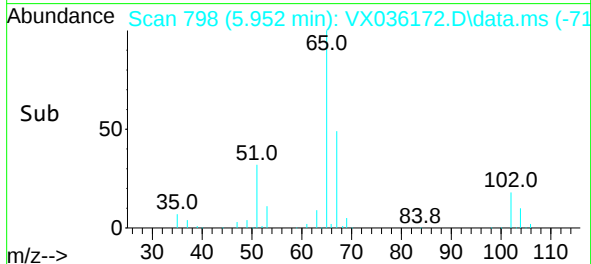
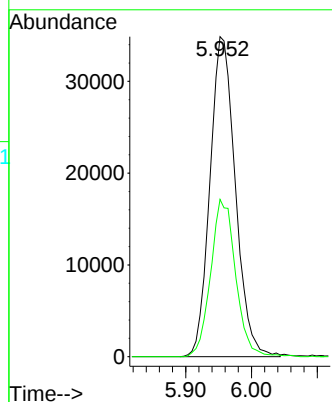
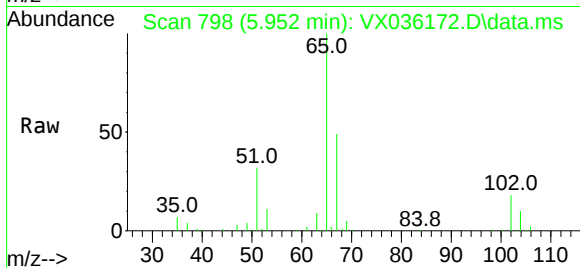
RW5A-IDW/GW-20230614

Tgt Ion: 65 Resp: 93761

Ion Ratio Lower Upper

65 100

67 48.0 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

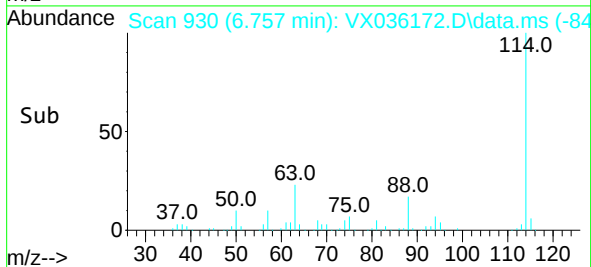
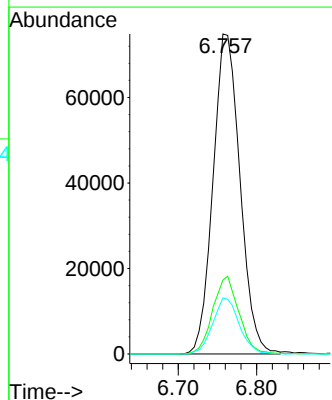
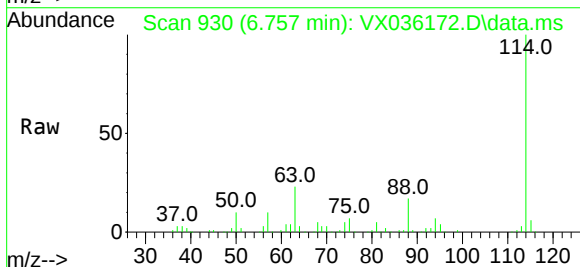
Tgt Ion: 114 Resp: 179137

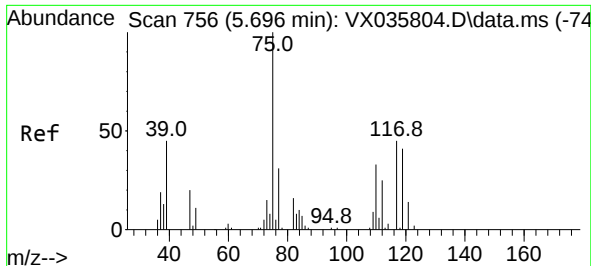
Ion Ratio Lower Upper

114 100

63 23.6 18.0 27.0

88 17.2 13.3 19.9





#29

1,1-Dichloropropene

Concen: 0.331 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.152 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

Instrument :

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ClientSampleId :

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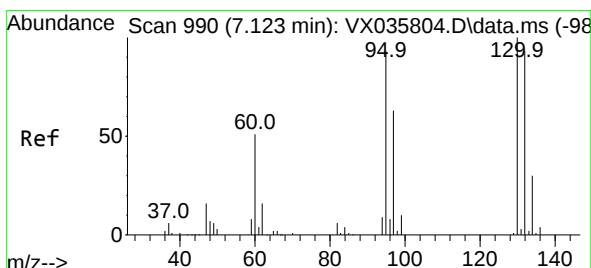
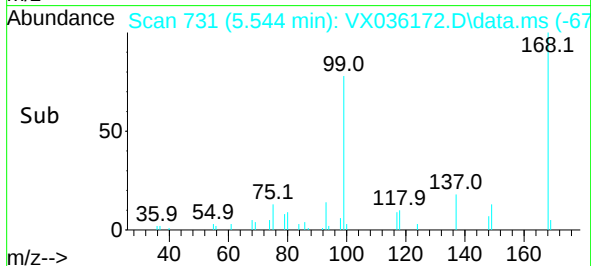
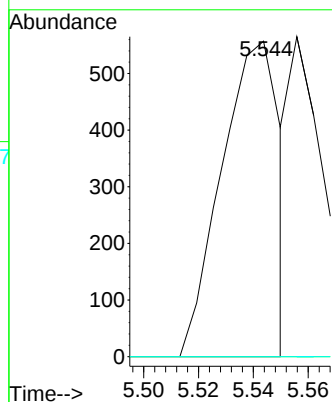
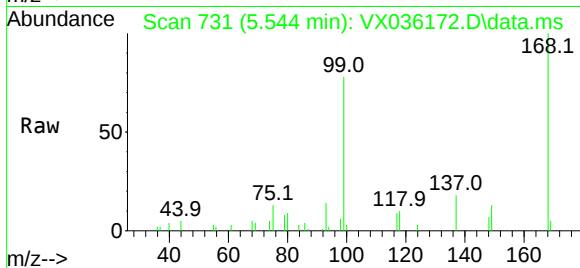
Tgt Ion: 75 Resp: 825

Ion Ratio Lower Upper

75 100

110 0.0 0.0 71.4

77 0.0 0.0 61.6



#37

Trichloroethene

Concen: 124.173 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX036172.D

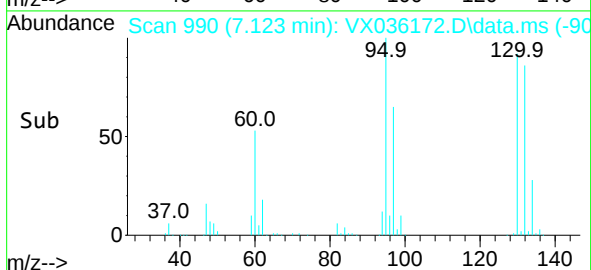
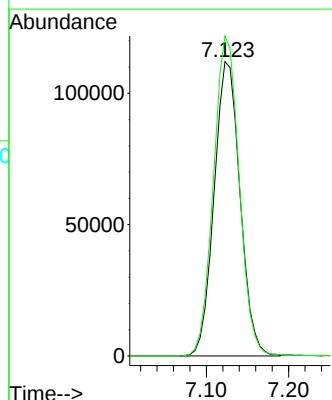
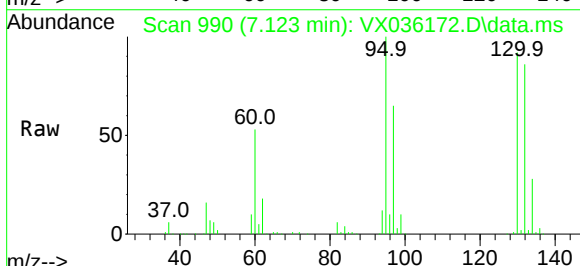
Acq: 15 Jun 2023 16:15

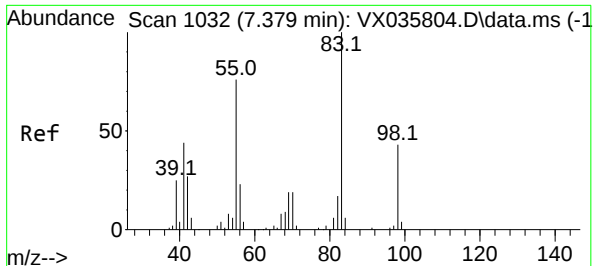
Tgt Ion:130 Resp: 245628

Ion Ratio Lower Upper

130 100

95 108.7 77.8 116.6

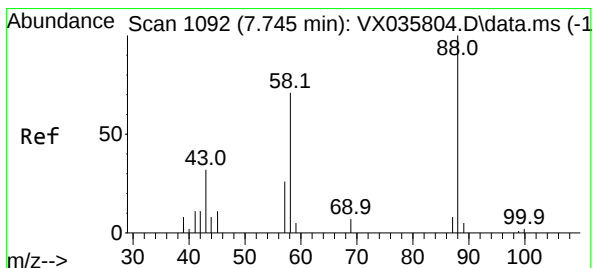
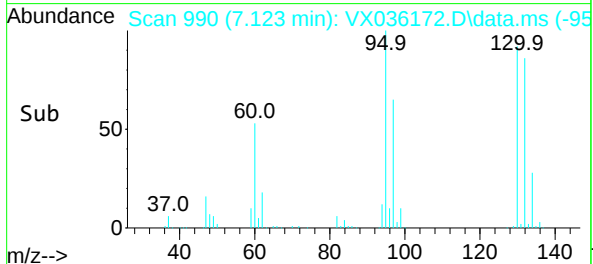
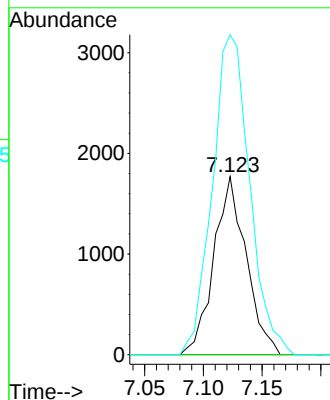
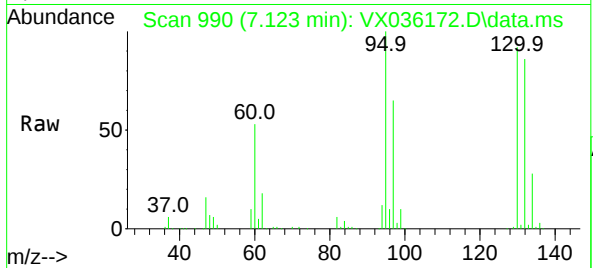




#38
Methylcyclohexane
Concen: 1.239 ug/l
RT: 7.123 min Scan# 91
Delta R.T. -0.256 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

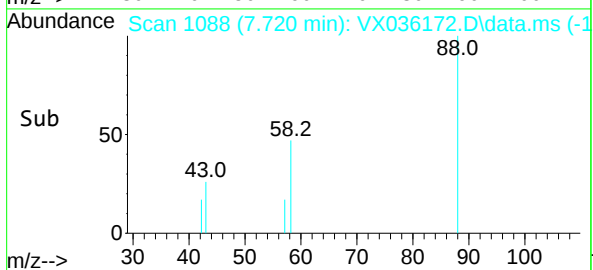
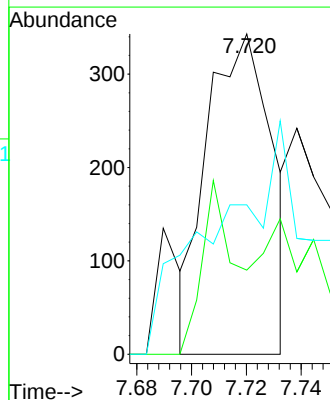
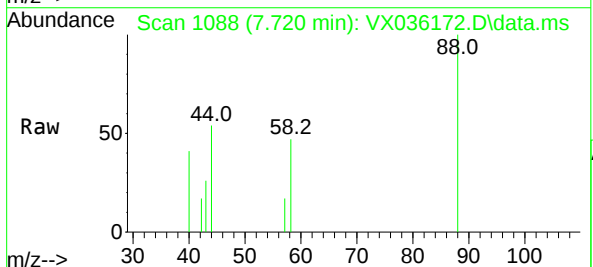
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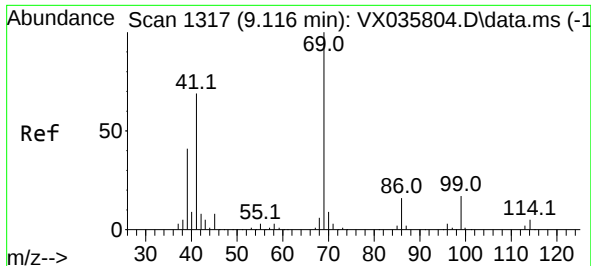
Tgt Ion: 83 Resp: 3390
Ion Ratio Lower Upper
83 100
55 0.0 38.8 116.4#
98 207.1 23.8 71.2#



#45
1,4-Dioxane
Concen: 11.677 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. -0.024 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Tgt Ion: 88 Resp: 563
Ion Ratio Lower Upper
88 100
43 28.1 26.5 39.7
58 59.0 55.6 83.4

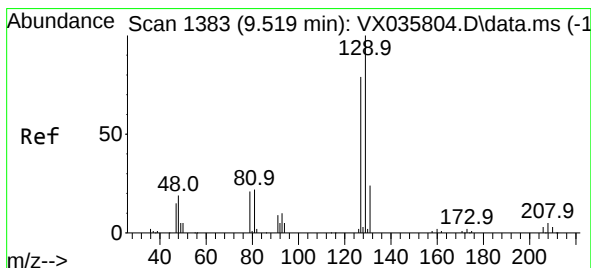
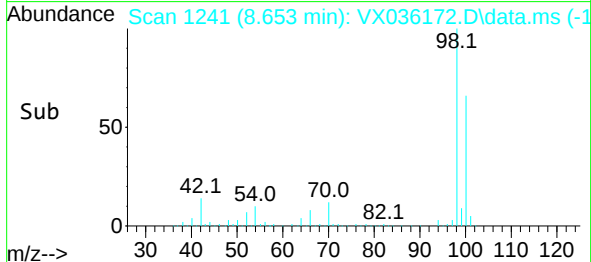
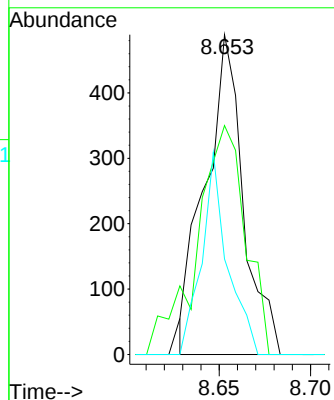
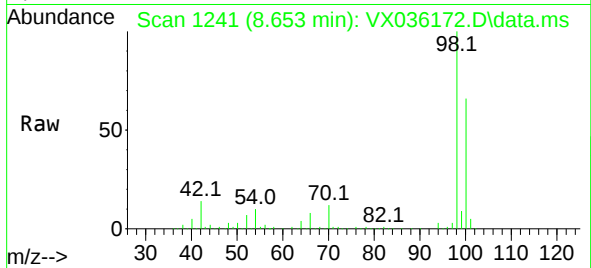




#51
Ethyl methacrylate
Concen: 0.225 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

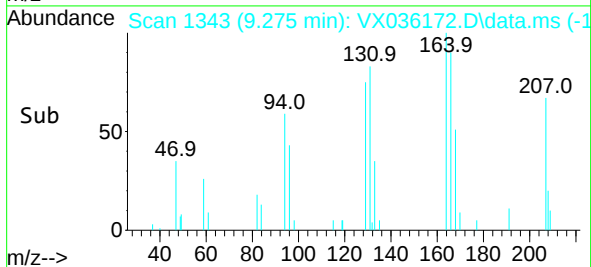
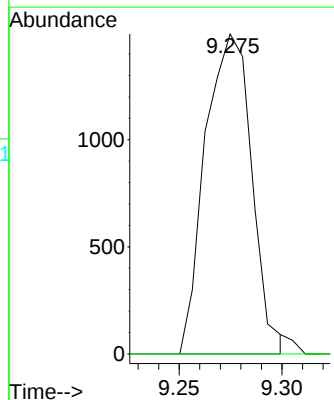
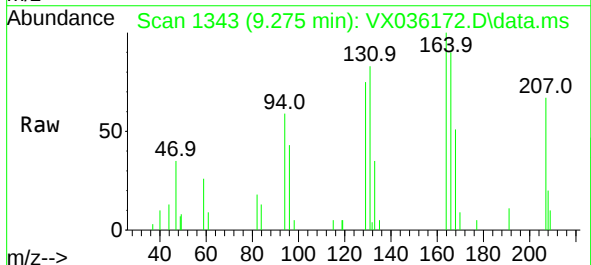
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

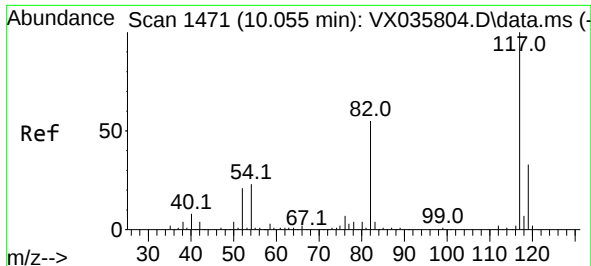
Tgt Ion: 69 Resp: 710
Ion Ratio Lower Upper
69 100
41 71.6 36.2 108.6
39 29.9 21.2 63.6



#53
Dibromochloromethane
Concen: 1.249 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.244 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Tgt Ion: 129 Resp: 2347
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

Instrument :

MSVOA_X

ClientSampleId :

RW5A-IDW/GW-20230614

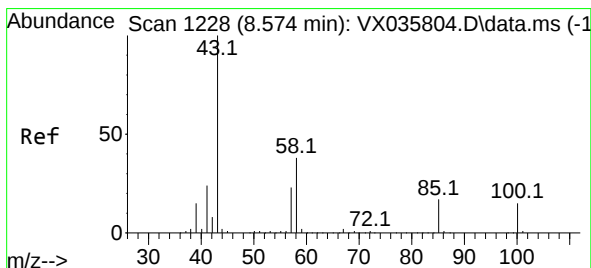
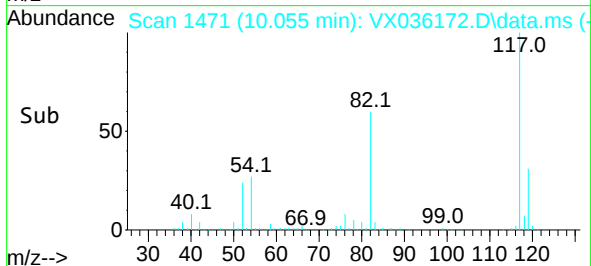
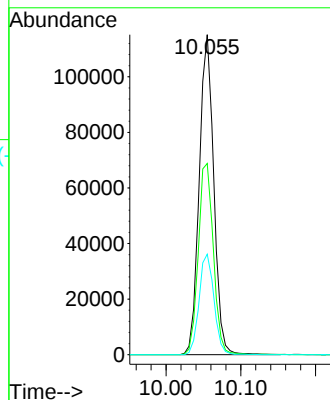
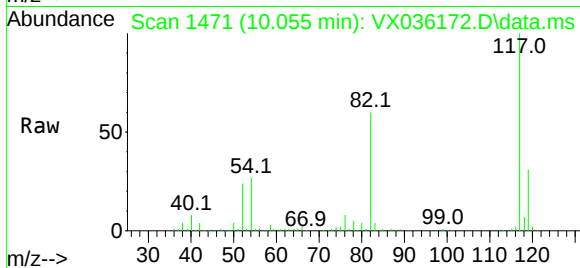
Tgt Ion:117 Resp: 155475

Ion Ratio Lower Upper

117 100

82 61.9 45.8 68.8

119 32.0 25.4 38.0



#58

4-Methyl-2-Pentanone

Concen: 0.347 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX036172.D

Acq: 15 Jun 2023 16:15

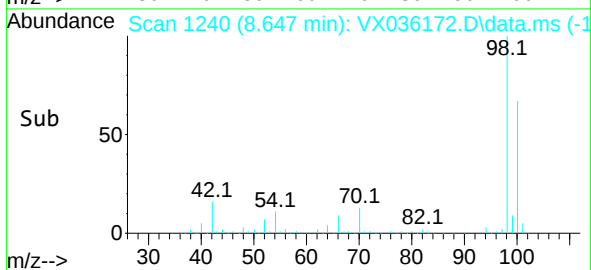
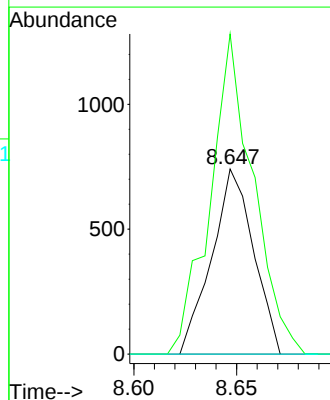
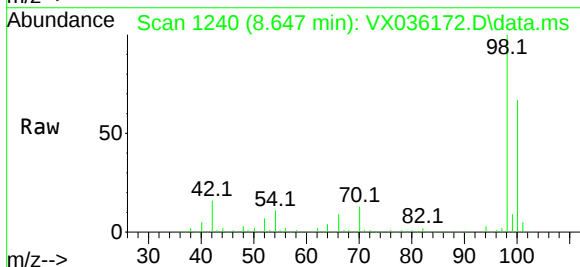
Tgt Ion: 43 Resp: 1048

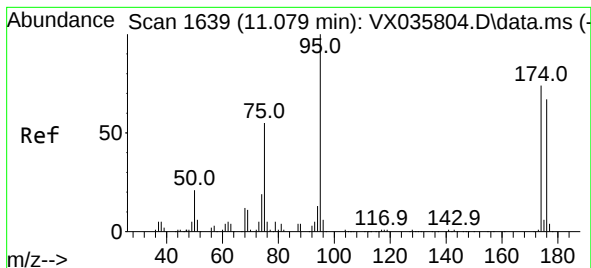
Ion Ratio Lower Upper

43 100

58 178.2 29.9 44.9#

85 0.0 13.2 19.8#

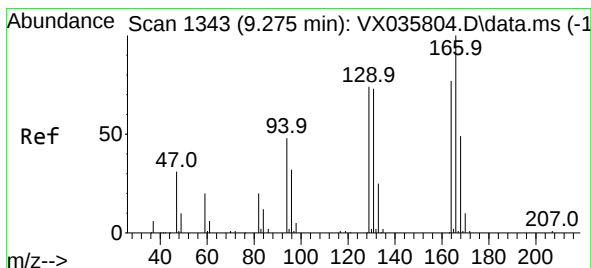
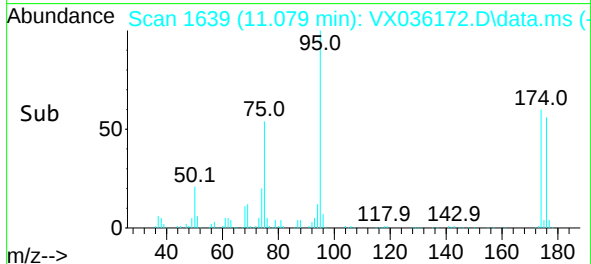
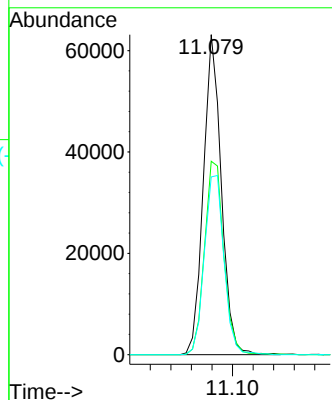
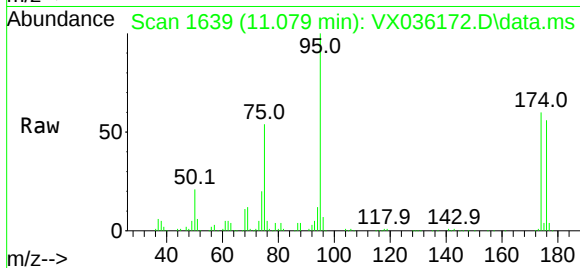




#60
4-Bromofluorobenzene
Concen: 29.451 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

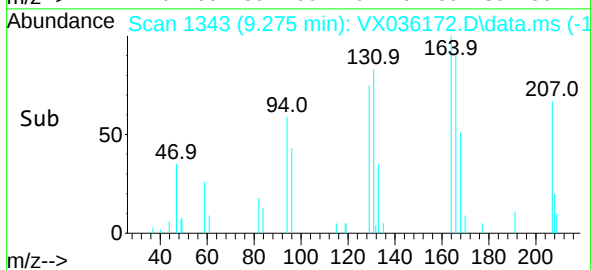
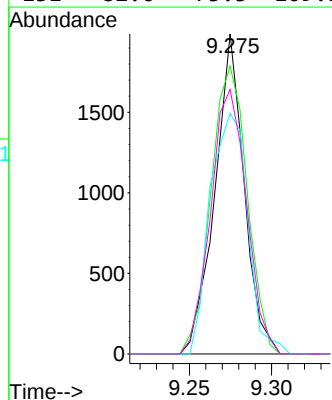
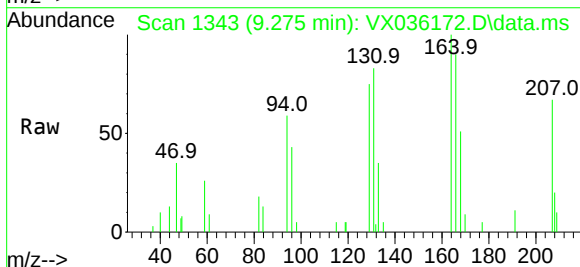
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

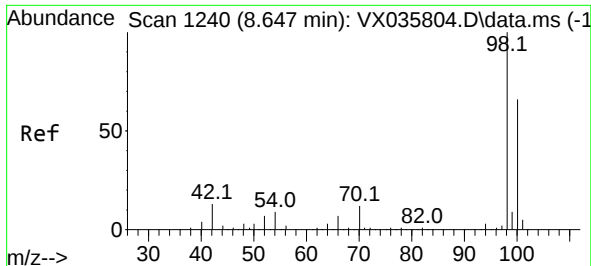
Tgt Ion: 95 Resp: 76833
Ion Ratio Lower Upper
95 100
174 65.1 0.2 0.4#
176 61.1 0.2 0.2#



#61
Tetrachloroethene
Concen: 1.646 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Tgt Ion:164 Resp: 2465
Ion Ratio Lower Upper
164 100
166 89.9 100.1 150.1#
129 75.2 79.1 118.7#
131 82.6 73.3 109.9

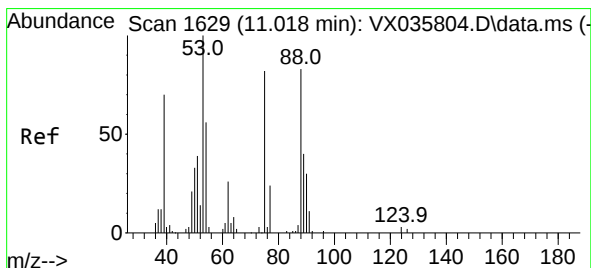
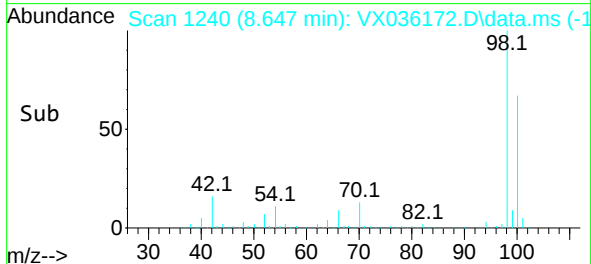
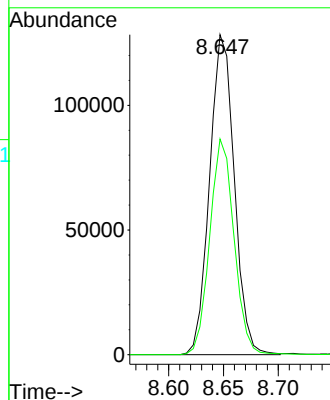
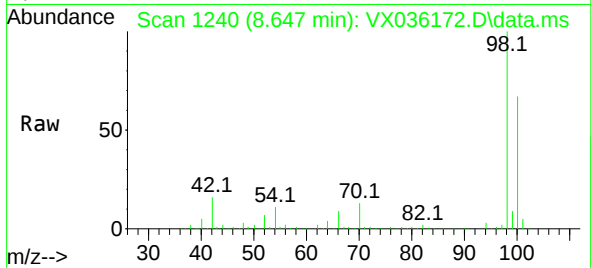




#63
Toluene-d8
Concen: 29.256 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

Tgt Ion: 98 Resp: 201082
Ion Ratio Lower Upper
98 100
100 66.3 52.1 78.1



#77
t-1,4-Dichloro-2-butene
Concen: 52.715 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036172.D
Acq: 15 Jun 2023 16:15

Tgt Ion: 75 Resp: 42451
Ion Ratio Lower Upper
75 100
53 0.0 58.2 174.6#
89 0.0 20.6 61.8#

