

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042522\
 Data File : VX028321.D
 Acq On : 25 Apr 2022 13:04
 Operator : JC/MD
 Sample : N2521-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

Quant Time: Apr 26 08:10:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X041922W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 19 13:38:04 2022
 Response via : Initial Calibration

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

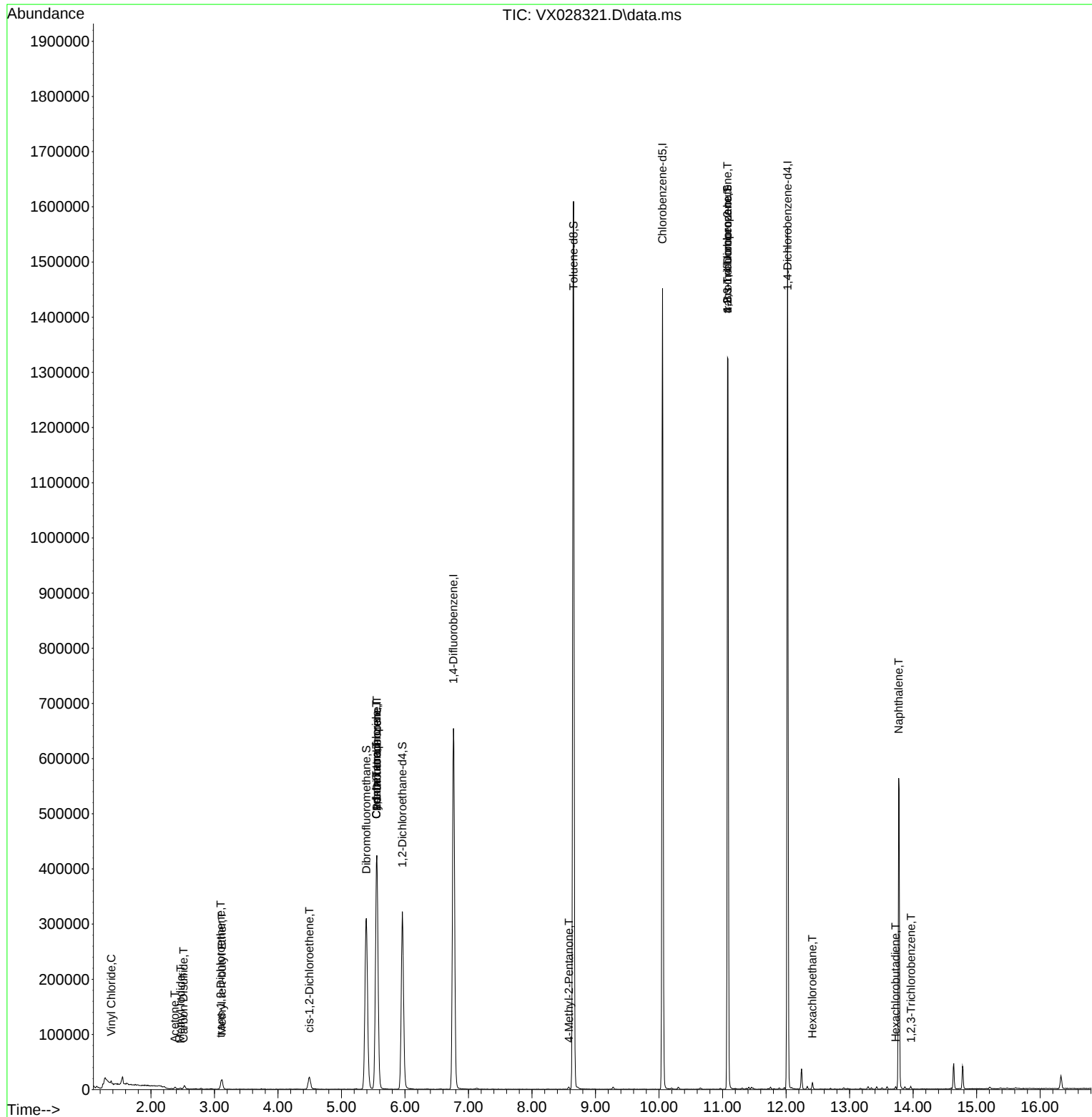
Internal Standards						
1) Pentafluorobenzene	5.556	168	417096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	707103	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	676572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	317595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	291953	53.683	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 107.360%	
35) Dibromofluoromethane	5.391	113	267816	54.008	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 108.020%	
50) Toluene-d8	8.653	98	980549	51.483	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 102.960%	
62) 4-Bromofluorobenzene	11.079	95	354205	48.639	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 97.280%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	1322	Below Cal	#	86
4) Vinyl Chloride	1.374	62	1984	0.472	ug/l #	66
5) Bromomethane	1.624	94	1242	Below Cal	#	74
6) Chloroethane	1.758	64	2941	Below Cal	#	43
8) Diethyl Ether	2.124	74	105	Below Cal		85
10) Methyl Iodide	2.465	142	1761	5.576	ug/l	96
11) Tert butyl alcohol	2.947	59	550	Below Cal	#	72
16) Acetone	2.374	43	3552	0.747	ug/l #	81
17) Carbon Disulfide	2.514	76	2671	0.309	ug/l #	91
19) Methyl tert-butyl Ether	3.117	73	19315	1.445	ug/l	94
21) trans-1,2-Dichloroethene	3.099	96	903	0.207	ug/l #	67
27) cis-1,2-Dichloroethene	4.495	96	15041	2.894	ug/l	82
31) Cyclohexane	5.550	56	8167	1.233	ug/l #	11
36) 1,1-Dichloropropene	5.556	75	29938	4.628	ug/l #	50
38) Carbon Tetrachloride	5.550	117	41541	5.689	ug/l #	16
51) 4-Methyl-2-Pentanone	8.580	43	2302	0.336	ug/l	94
76) 1,2,3-Trichloropropane	11.079	75	175834	28.131	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	175834	83.599	ug/l #	15
90) Hexachloroethane	12.414	117	514	1.953	ug/l #	10
94) Hexachlorobutadiene	13.725	225	733	0.260	ug/l	81
95) Naphthalene	13.774	128	365574	17.387	ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	1386	0.224	ug/l	88

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

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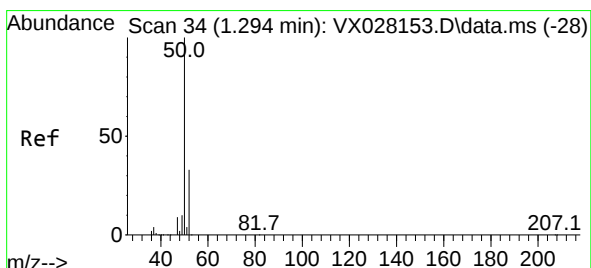
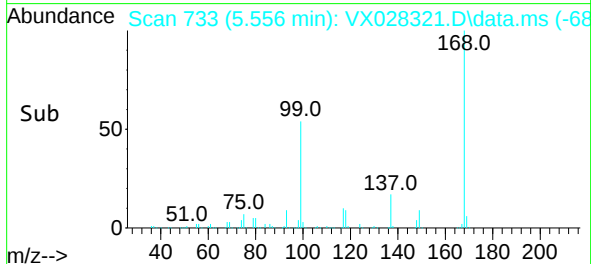
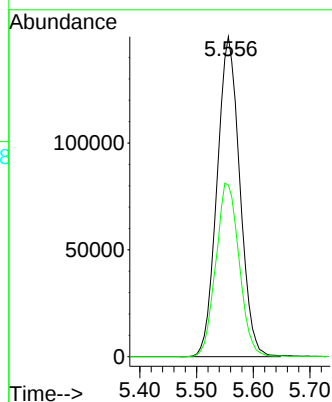
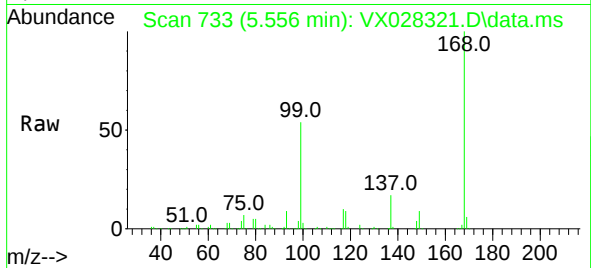




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

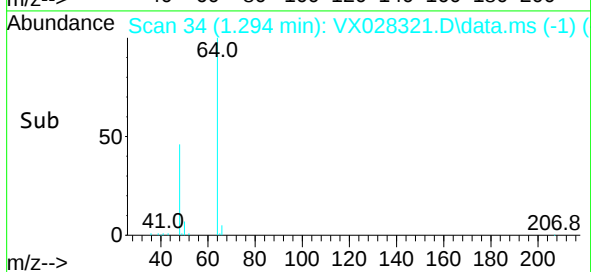
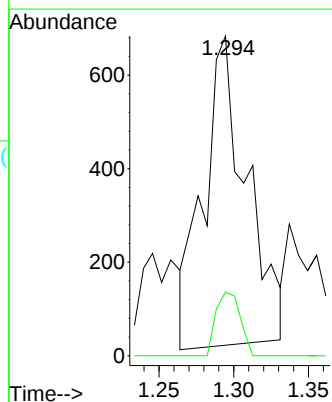
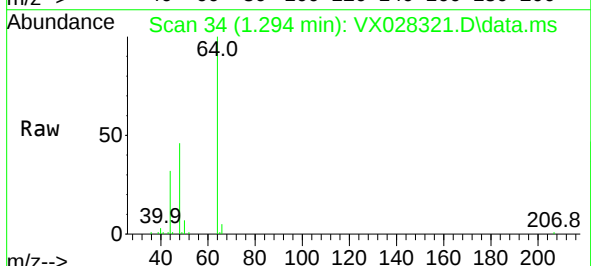
Instrument :
MSVOA_X
ClientSampleId :
MW2

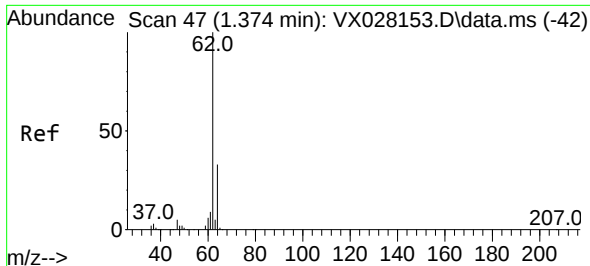
Tgt Ion:168 Resp: 417096
Ion Ratio Lower Upper
168 100
99 53.7 41.7 62.5



#3
Chloromethane
Concen: Below Cal
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion: 50 Resp: 1322
Ion Ratio Lower Upper
50 100
52 25.3 26.4 39.6#

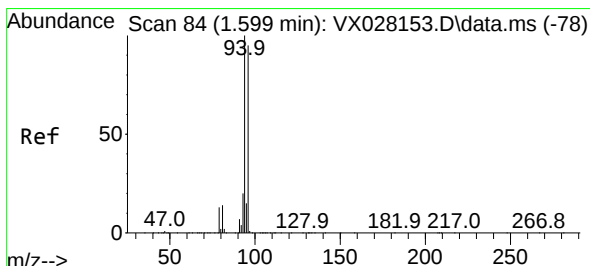
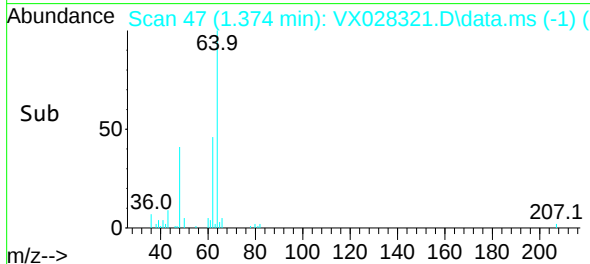
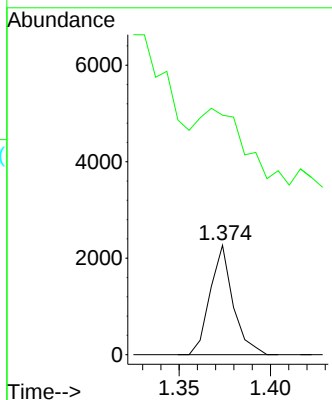
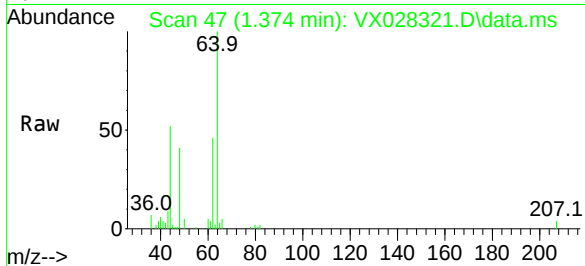




#4
 Vinyl Chloride
 Concen: 0.472 ug/l
 RT: 1.374 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX028321.D
 Acq: 25 Apr 2022 13:04

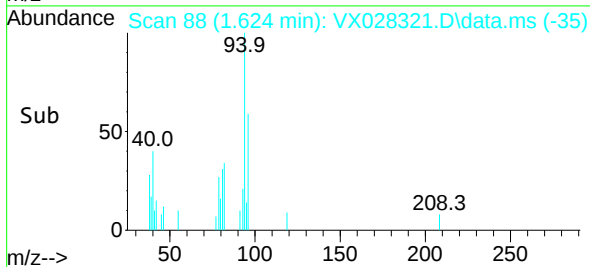
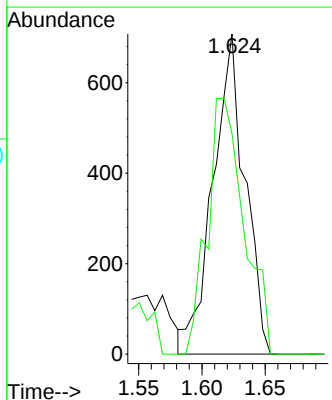
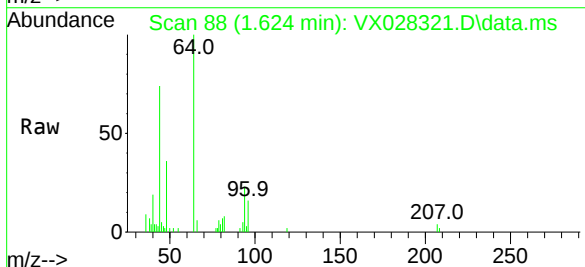
Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

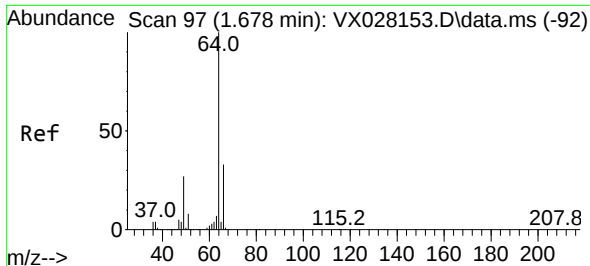
Tgt Ion: 62 Resp: 1984
 Ion Ratio Lower Upper
 62 100
 64 50.7 25.5 38.3#



#5
 Bromomethane
 Concen: Below Cal
 RT: 1.624 min Scan# 88
 Delta R.T. 0.025 min
 Lab File: VX028321.D
 Acq: 25 Apr 2022 13:04

Tgt Ion: 94 Resp: 1242
 Ion Ratio Lower Upper
 94 100
 96 68.9 75.3 112.9#

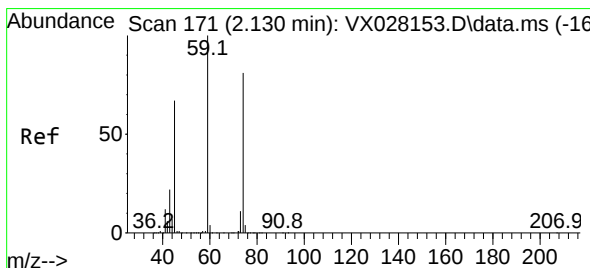
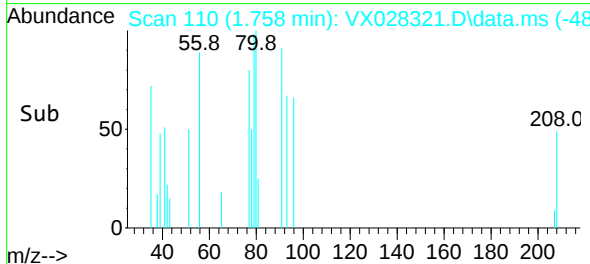
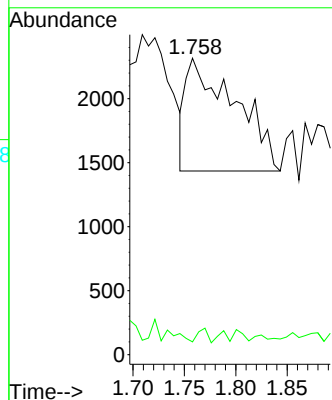
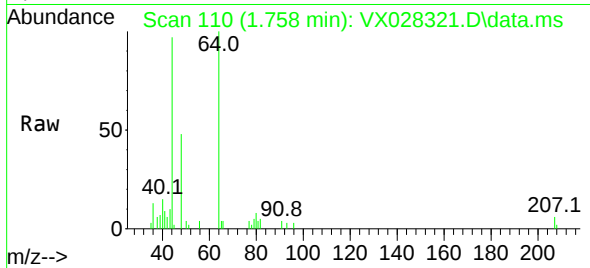




#6
Chloroethane
Concen: Below Cal
RT: 1.758 min Scan# 11
Delta R.T. 0.080 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

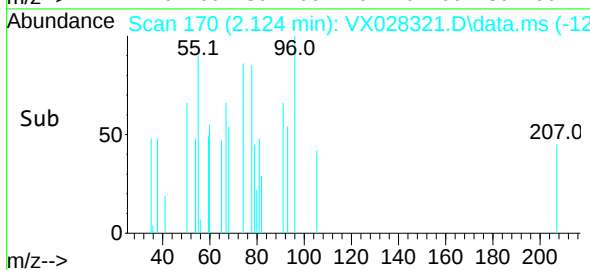
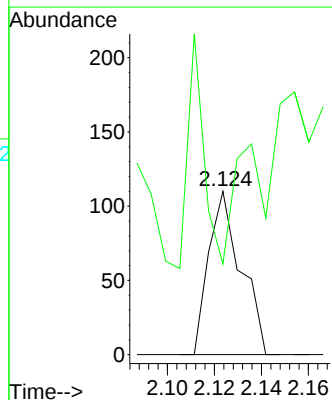
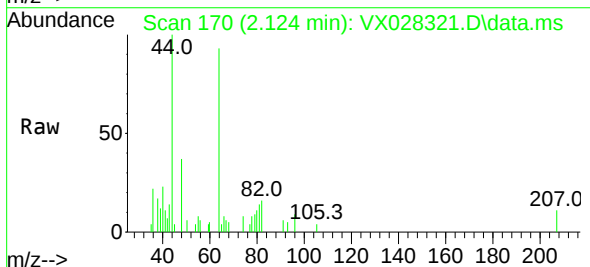
Instrument :
MSVOA_X
ClientSampleId :
MW2

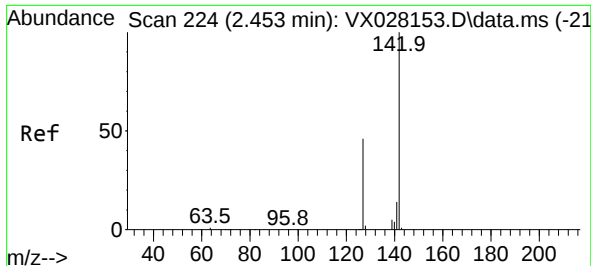
Tgt Ion: 64 Resp: 2941
Ion Ratio Lower Upper
64 100
66 0.0 25.3 37.9#



#8
Diethyl Ether
Concen: Below Cal
RT: 2.124 min Scan# 170
Delta R.T. -0.006 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

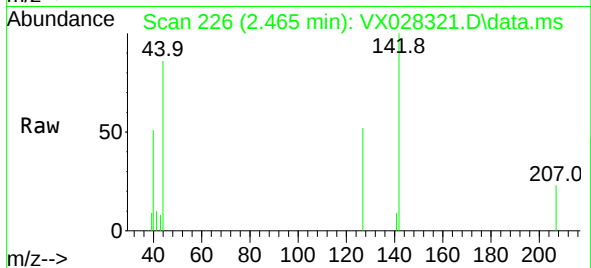
Tgt Ion: 74 Resp: 105
Ion Ratio Lower Upper
74 100
45 70.5 42.0 126.0



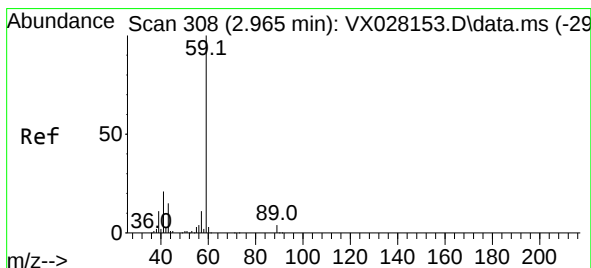
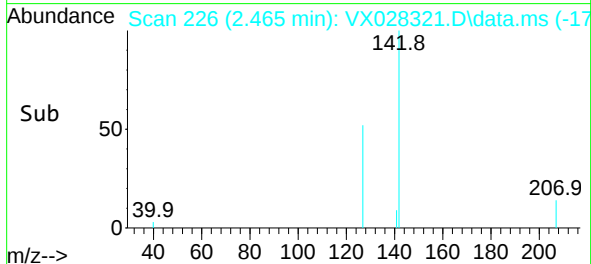
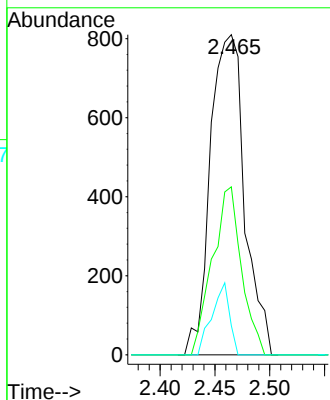


#10
Methyl Iodide
Concen: 5.576 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Instrument :
MSVOA_X
ClientSampleId :
MW2

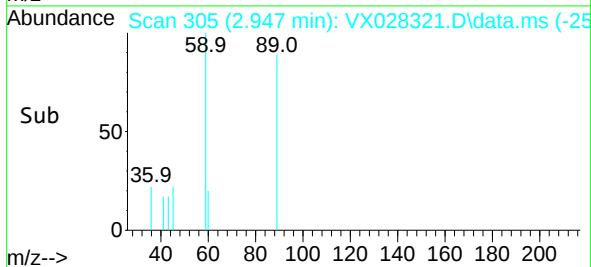
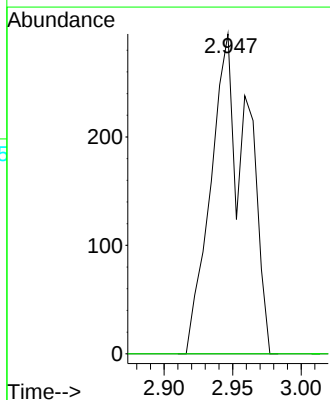
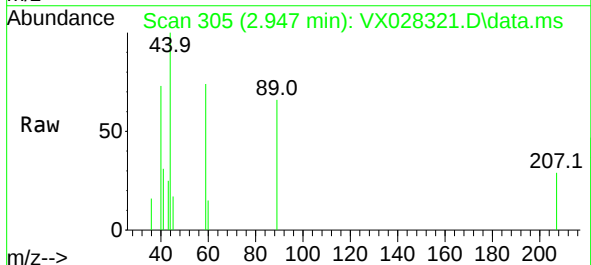


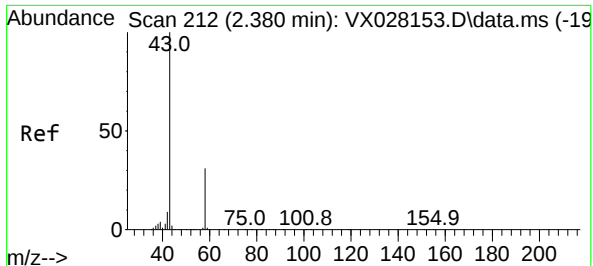
Tgt Ion:142 Resp: 1761
Ion Ratio Lower Upper
142 100
127 44.5 33.9 50.9
141 11.5 11.4 17.2



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.947 min Scan# 305
Delta R.T. -0.018 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion: 59 Resp: 550
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 0.747 ug/l

RT: 2.374 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

Instrument :

MSVOA_X

ClientSampleId :

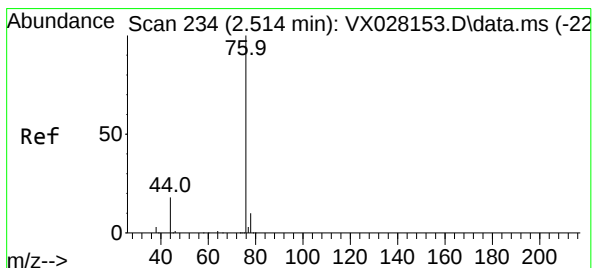
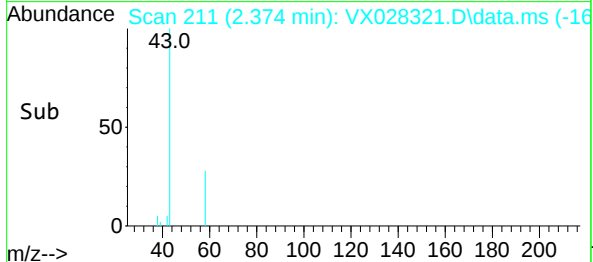
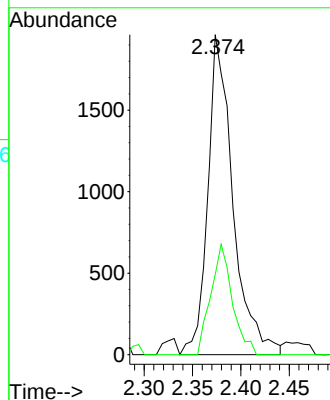
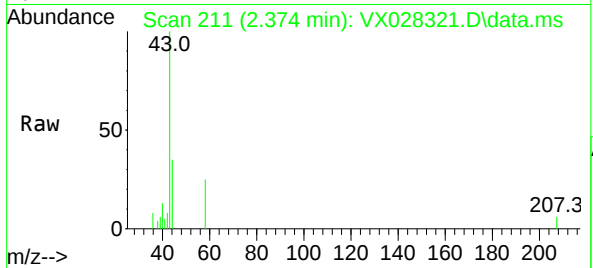
MW2

Tgt Ion: 43 Resp: 3552

Ion Ratio Lower Upper

43 100

58 25.1 28.8 43.2#



#17

Carbon Disulfide

Concen: 0.309 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX028321.D

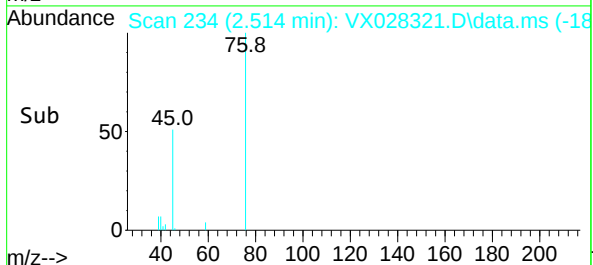
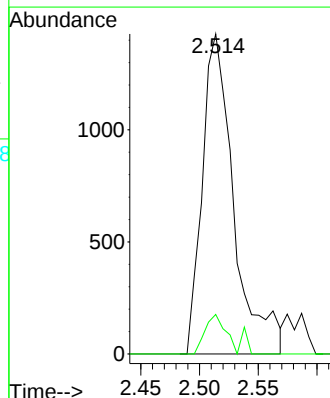
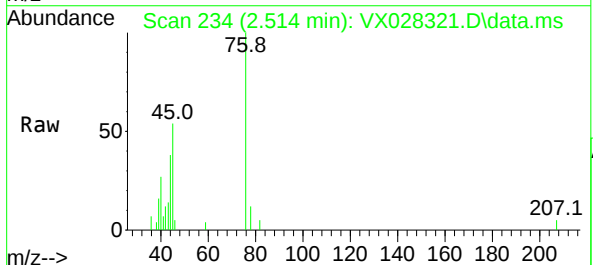
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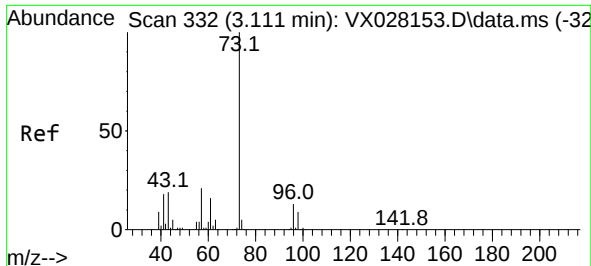
Tgt Ion: 76 Resp: 2671

Ion Ratio Lower Upper

76 100

78 12.3 7.2 10.8#

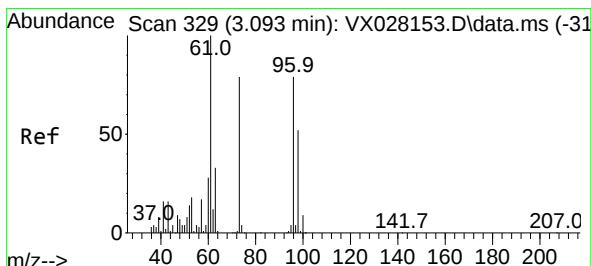
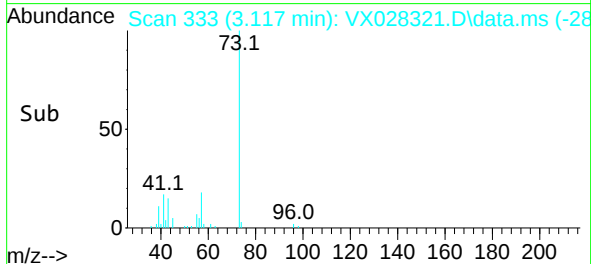
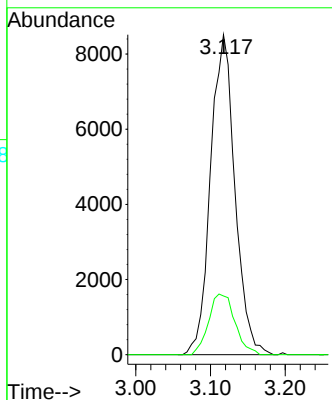
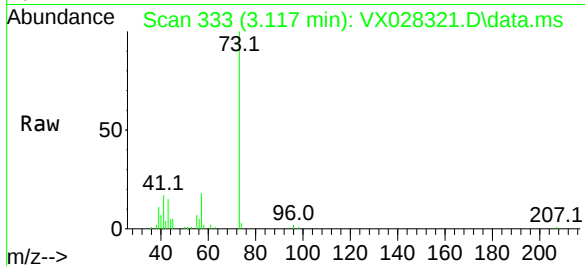




#19
Methyl tert-butyl Ether
Concen: 1.445 ug/l
RT: 3.117 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

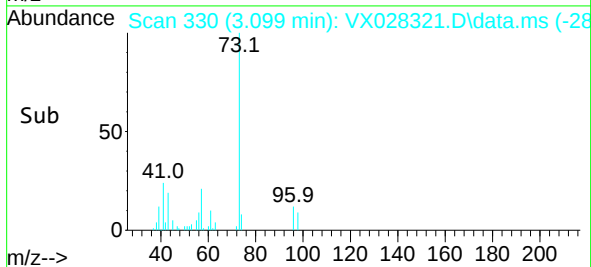
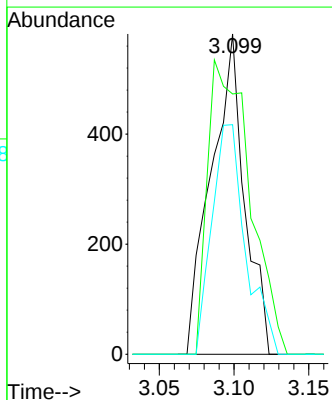
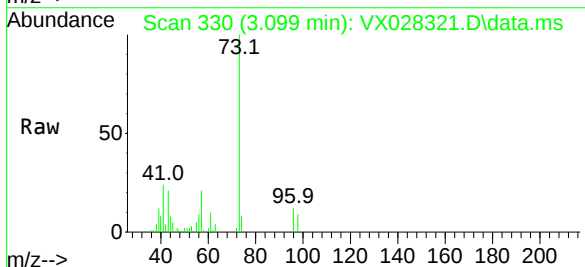
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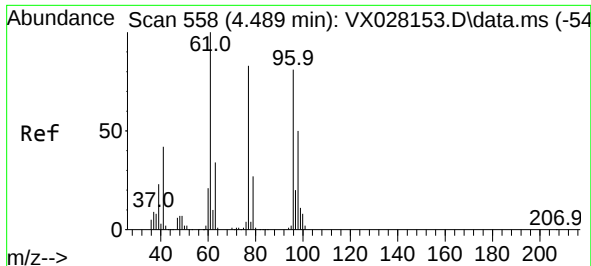
Tgt Ion: 73 Resp: 19315
Ion Ratio Lower Upper
73 100
57 18.3 16.8 25.2



#21
trans-1,2-Dichloroethene
Concen: 0.207 ug/l
RT: 3.099 min Scan# 330
Delta R.T. 0.006 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion: 96 Resp: 903
Ion Ratio Lower Upper
96 100
61 81.3 105.4 158.2#
98 71.6 50.0 75.0





#27

cis-1,2-Dichloroethene

Concen: 2.894 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX028321.D

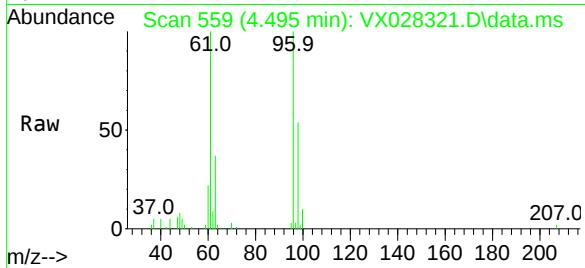
Acq: 25 Apr 2022 13:04

Instrument :

MSVOA_X

ClientSampleId :

MW2



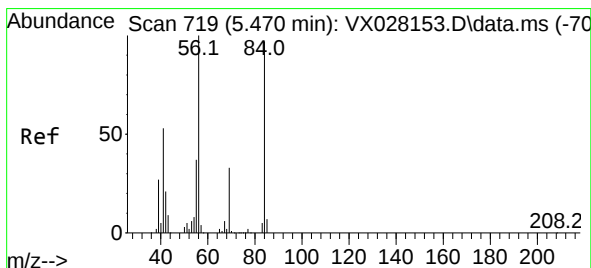
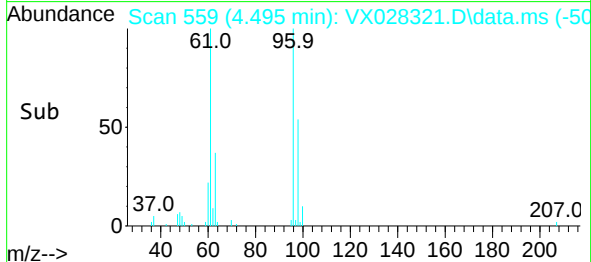
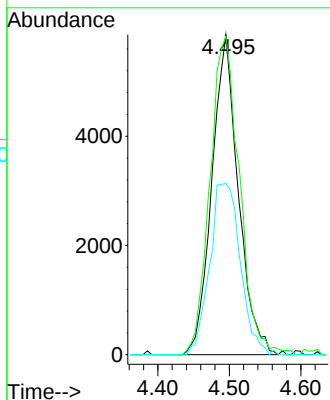
Tgt Ion: 96 Resp: 15041

Ion Ratio Lower Upper

96 100

61 111.2 0.0 283.8

98 62.1 0.0 129.8



#31

Cyclohexane

Concen: 1.233 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.080 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

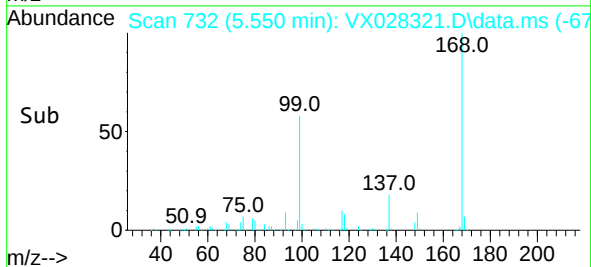
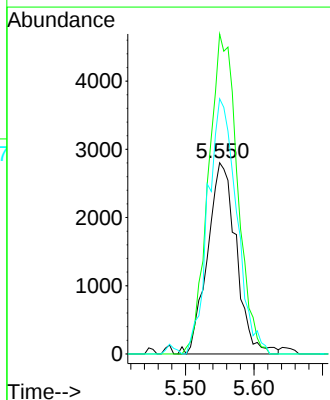
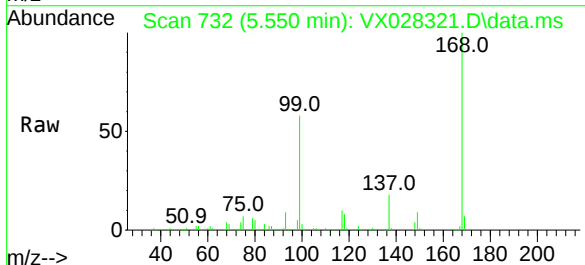
Tgt Ion: 56 Resp: 8167

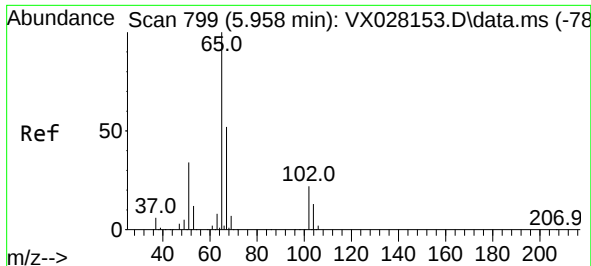
Ion Ratio Lower Upper

56 100

69 167.3 26.7 40.1#

84 133.4 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 53.683 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

Instrument :

MSVOA_X

ClientSampleId :

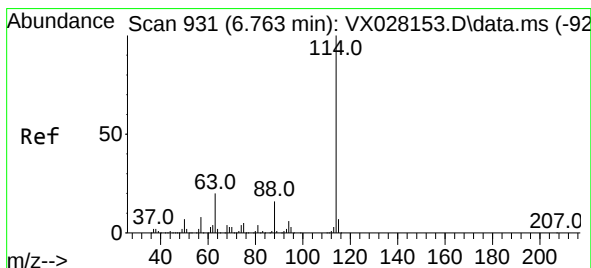
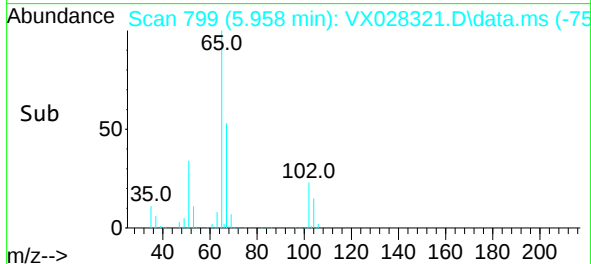
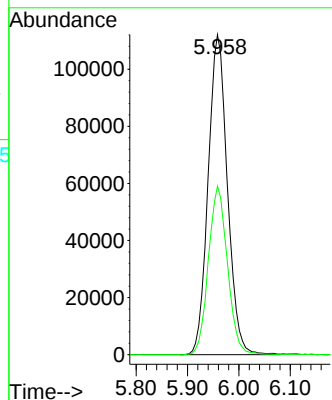
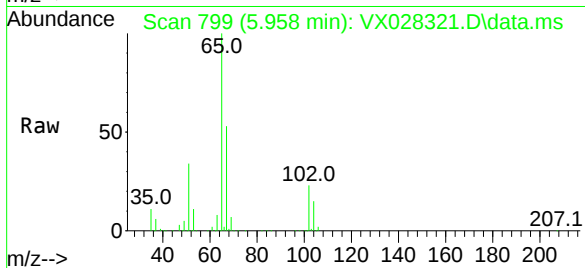
MW2

Tgt Ion: 65 Resp: 291953

Ion Ratio Lower Upper

65 100

67 52.0 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

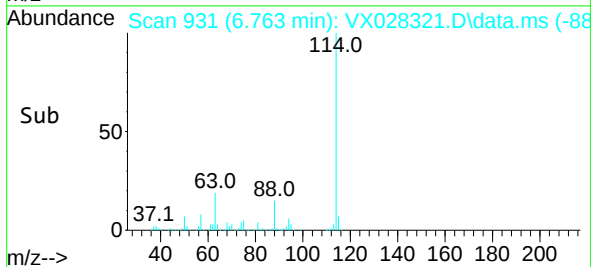
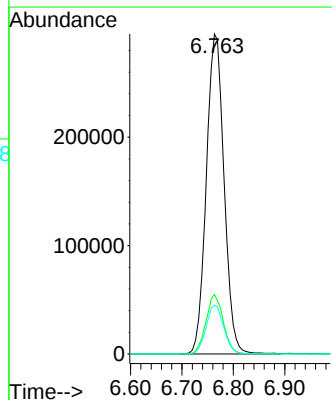
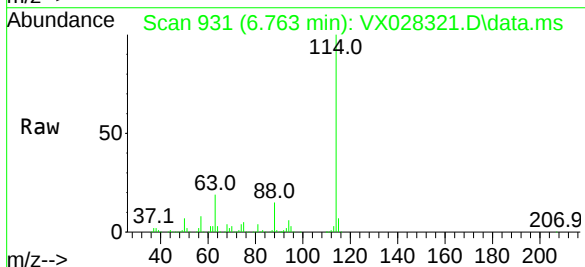
Tgt Ion: 114 Resp: 707103

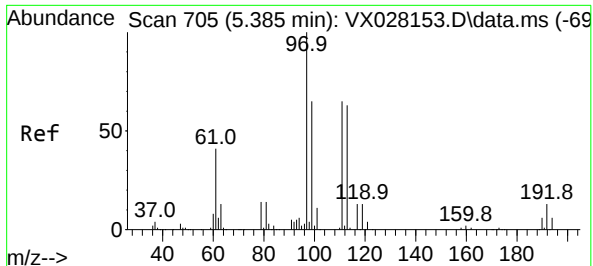
Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.8

88 15.2 0.0 32.4





#35

Dibromofluoromethane

Concen: 54.008 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

Instrument :

MSVOA_X

ClientSampleId :

MW2

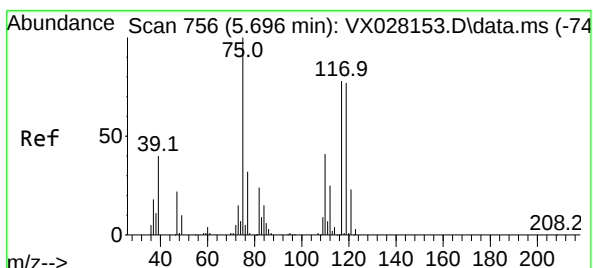
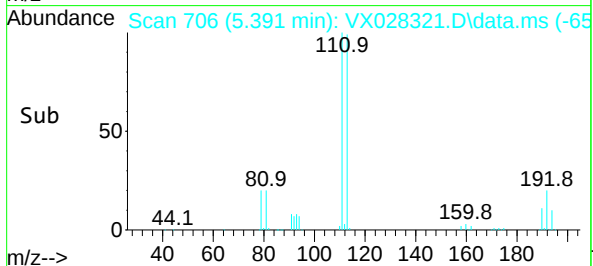
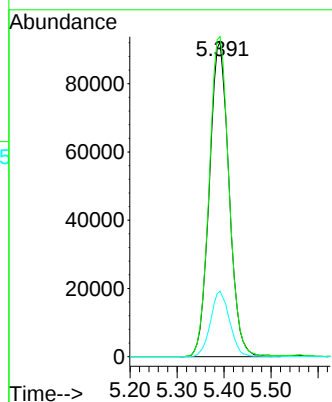
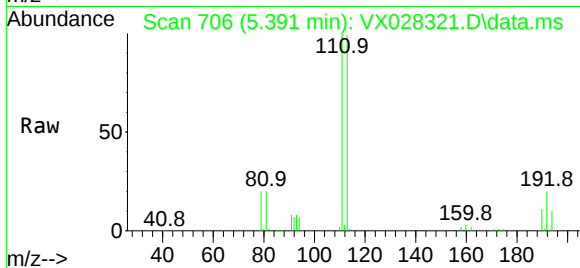
Tgt Ion:113 Resp: 267816

Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

192 20.3 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.628 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

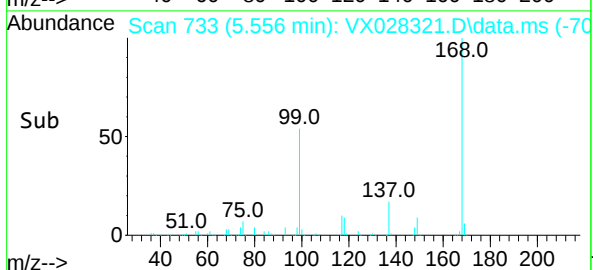
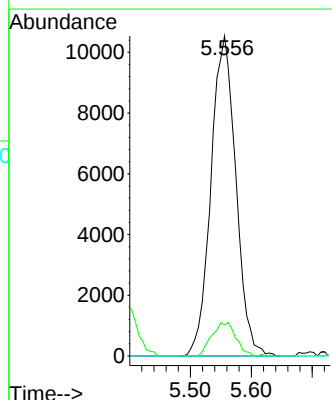
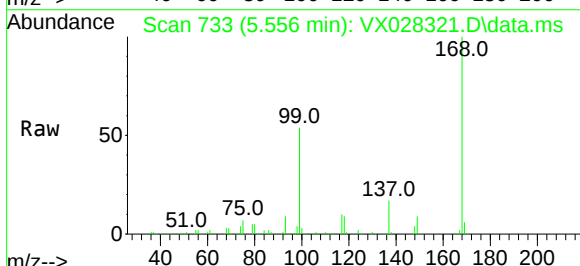
Tgt Ion: 75 Resp: 29938

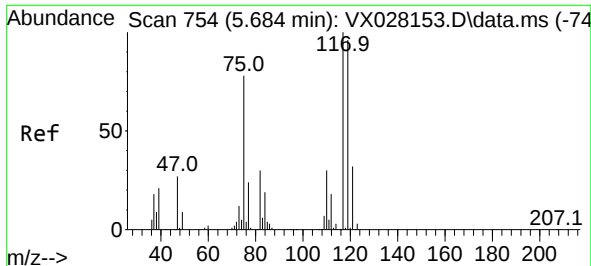
Ion Ratio Lower Upper

75 100

110 10.1 18.3 54.8#

77 0.0 24.8 37.2#

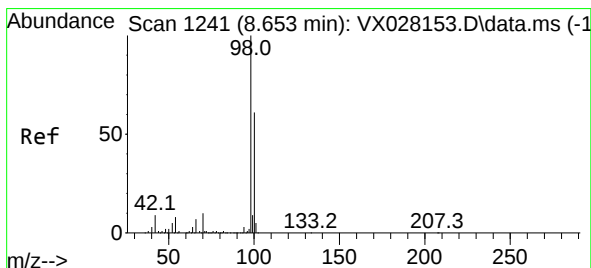
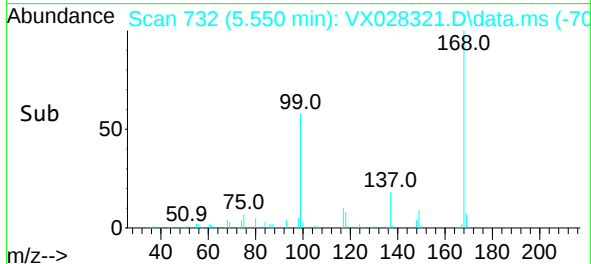
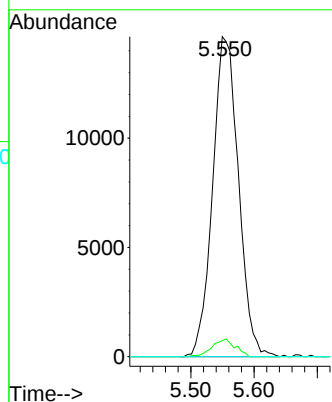
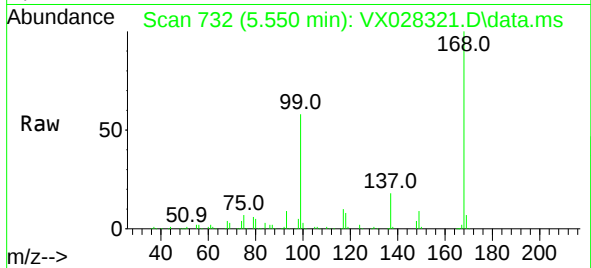




#38
Carbon Tetrachloride
Concen: 5.689 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

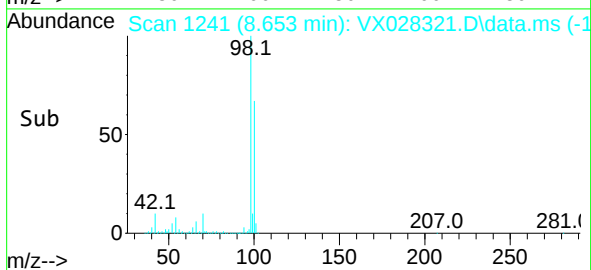
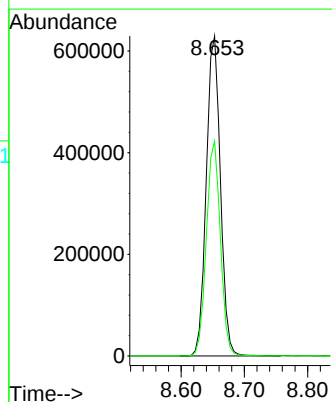
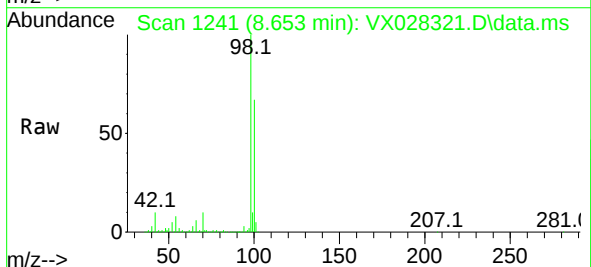
Instrument :
MSVOA_X
ClientSampleId :
MW2

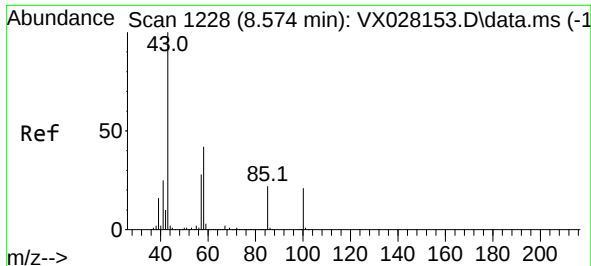
Tgt Ion:117 Resp: 41541
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 51.483 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion: 98 Resp: 980549
Ion Ratio Lower Upper
98 100
100 66.7 52.6 78.8

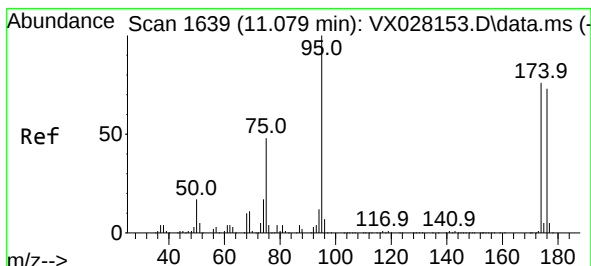
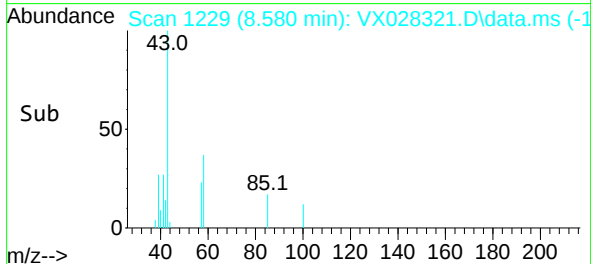
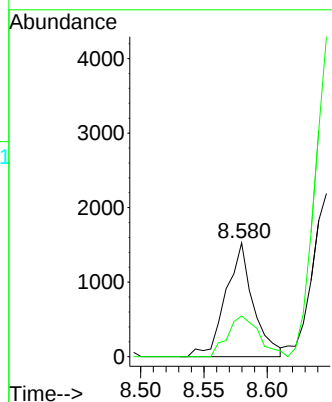
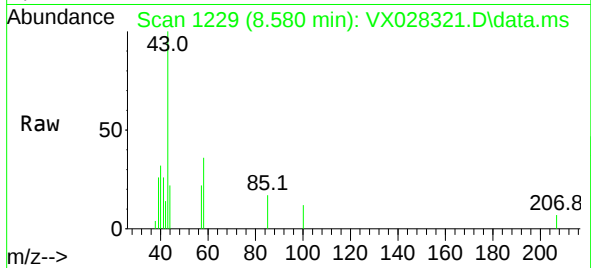




#51
4-Methyl-2-Pentanone
Concen: 0.336 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

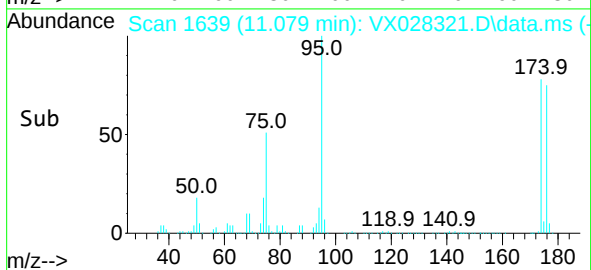
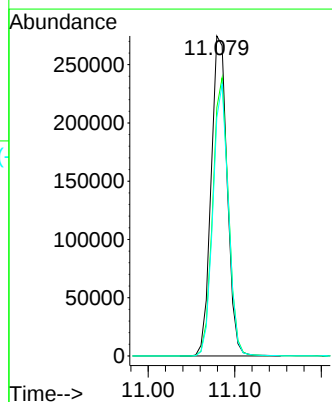
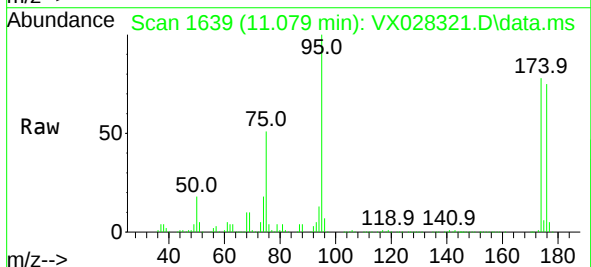
Instrument :
MSVOA_X
ClientSampleId :
MW2

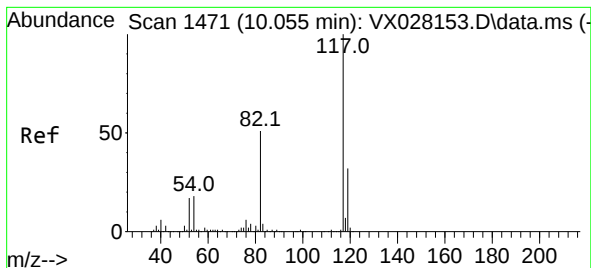
Tgt Ion: 43 Resp: 2302
Ion Ratio Lower Upper
43 100
58 41.1 36.1 54.1



#62
4-Bromofluorobenzene
Concen: 48.639 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion: 95 Resp: 354205
Ion Ratio Lower Upper
95 100
174 85.0 0.0 163.0
176 81.9 0.0 155.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

Instrument :

MSVOA_X

ClientSampleId :

MW2

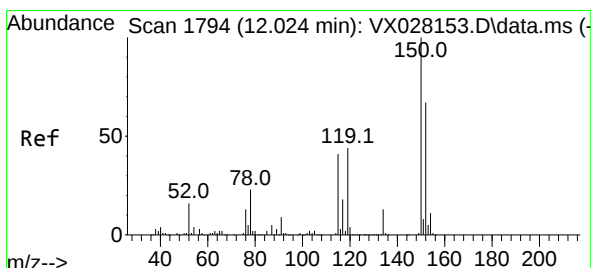
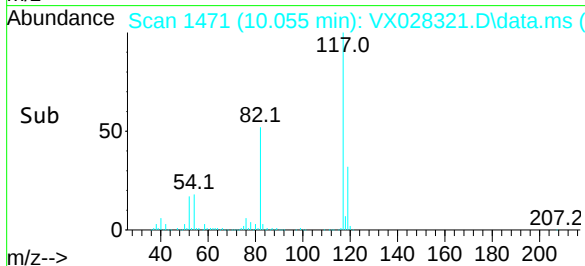
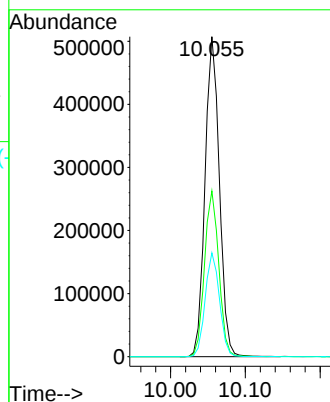
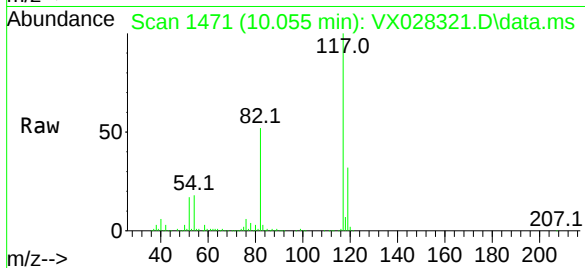
Tgt Ion:117 Resp: 676572

Ion Ratio Lower Upper

117 100

82 51.8 41.8 62.8

119 32.5 24.8 37.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

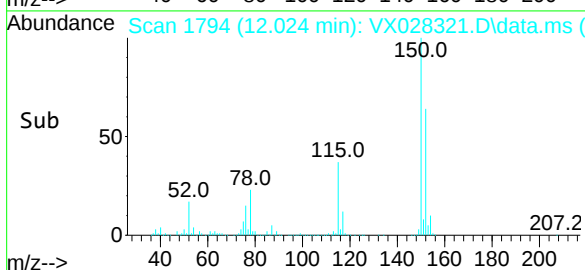
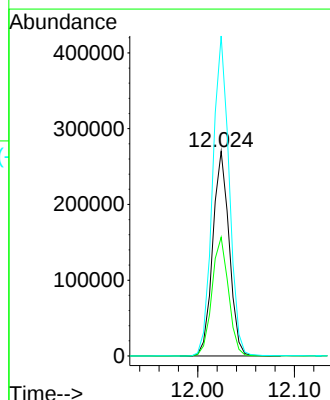
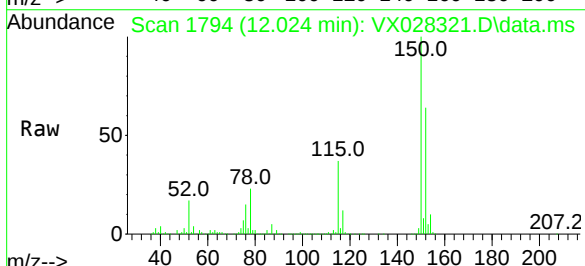
Tgt Ion:152 Resp: 317595

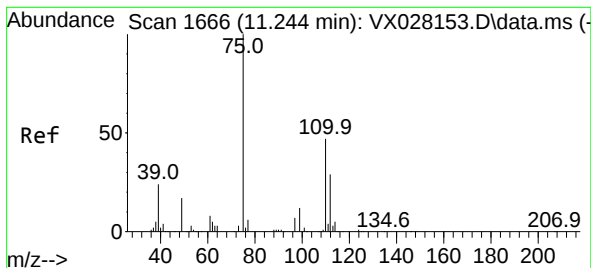
Ion Ratio Lower Upper

152 100

115 58.5 37.5 112.7

150 157.9 0.0 338.2





#76

1,2,3-Trichloropropane

Concen: 28.131 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

Instrument :

MSVOA_X

ClientSampleId :

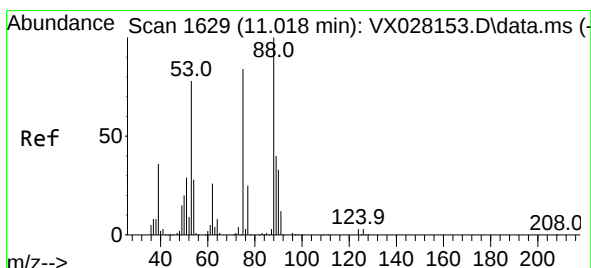
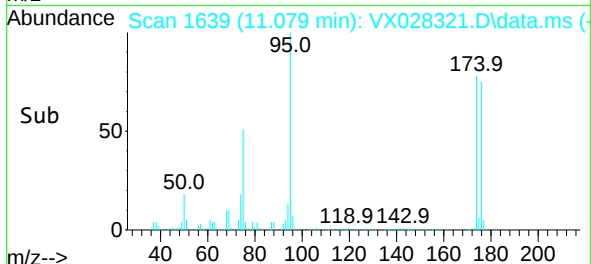
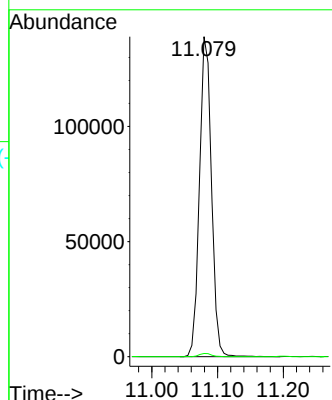
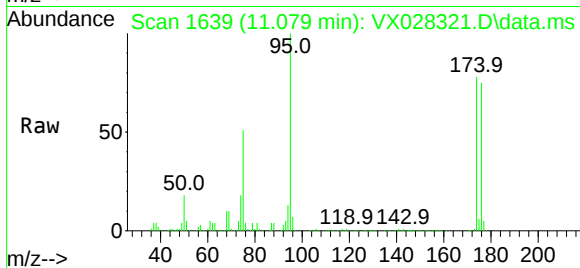
MW2

Tgt Ion: 75 Resp: 175834

Ion Ratio Lower Upper

75 100

77 1.0 19.4 58.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.599 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX028321.D

Acq: 25 Apr 2022 13:04

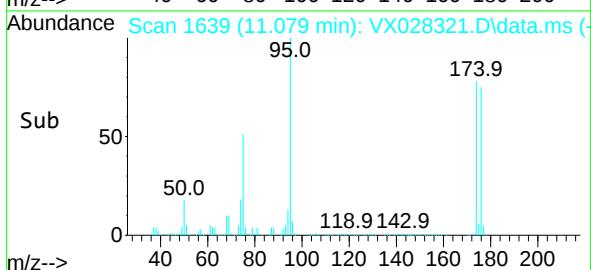
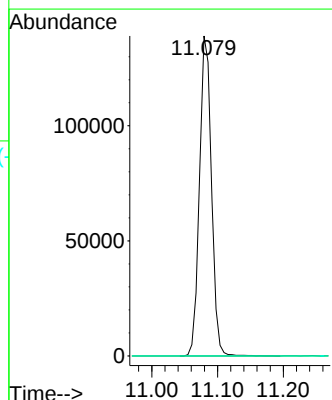
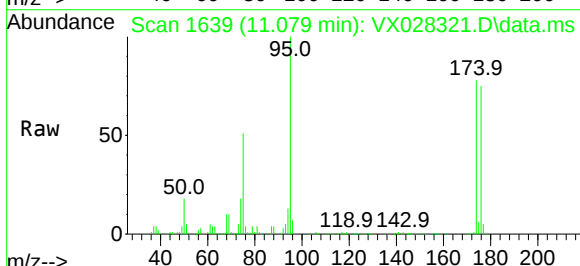
Tgt Ion: 75 Resp: 175834

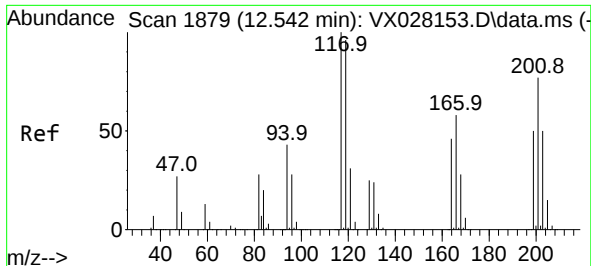
Ion Ratio Lower Upper

75 100

53 0.0 69.0 103.4#

89 0.0 37.0 55.6#

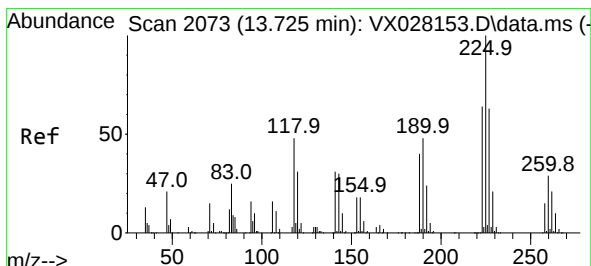
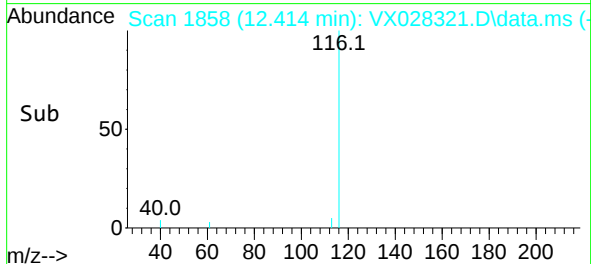
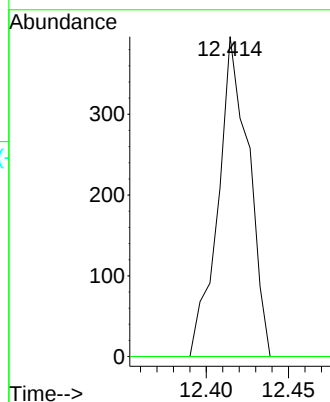
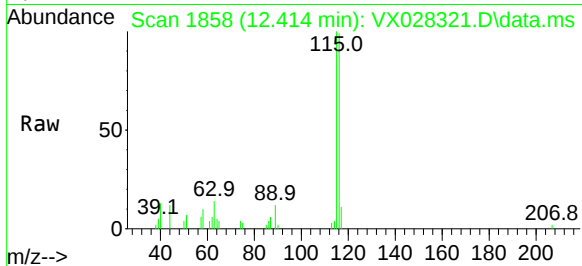




#90
Hexachloroethane
Concen: 1.953 ug/l
RT: 12.414 min Scan# 1858
Delta R.T. -0.128 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

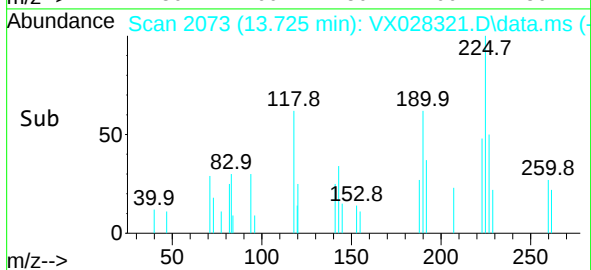
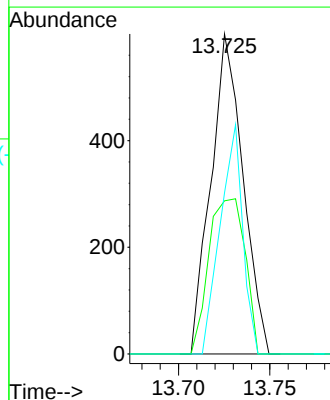
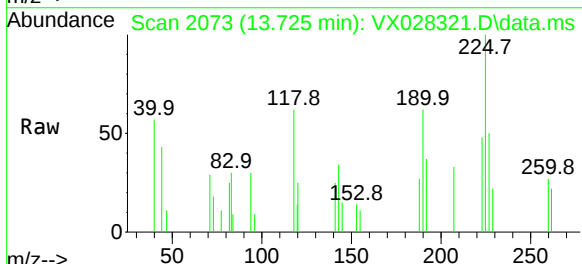
Instrument :
MSVOA_X
ClientSampleId :
MW2

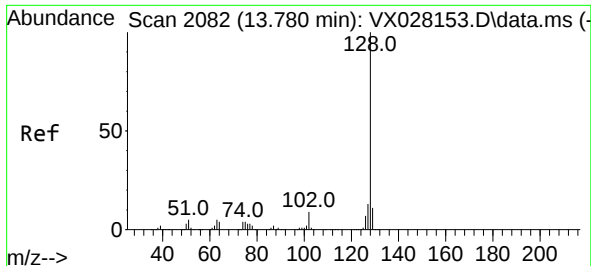
Tgt Ion:117 Resp: 514
Ion Ratio Lower Upper
117 100
201 0.0 39.5 118.5#



#94
Hexachlorobutadiene
Concen: 0.260 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion:225 Resp: 733
Ion Ratio Lower Upper
225 100
223 54.8 34.2 102.5
227 50.2 33.9 101.7

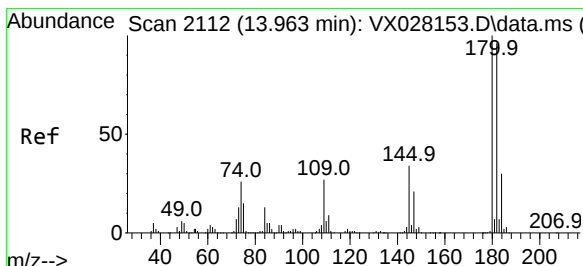
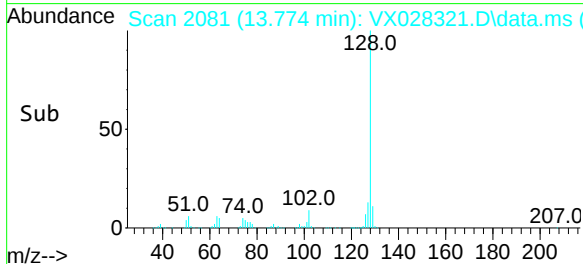
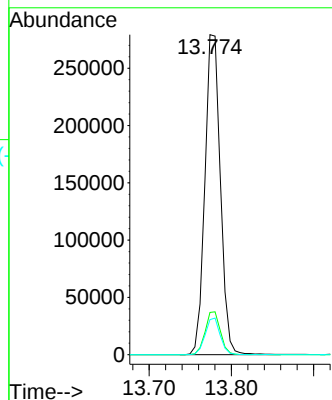
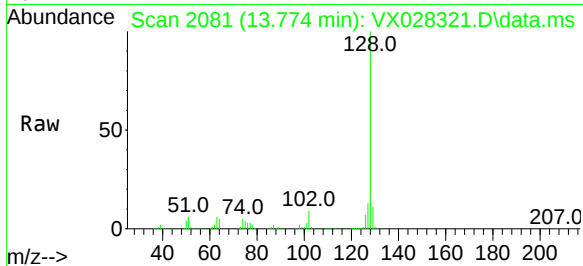




#95
Naphthalene
Concen: 17.387 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.006 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Instrument :
MSVOA_X
ClientSampleId :
MW2

Tgt Ion:128 Resp: 365574
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.4
129 11.1 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.224 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VX028321.D
Acq: 25 Apr 2022 13:04

Tgt Ion:180 Resp: 1386
Ion Ratio Lower Upper
180 100
182 85.6 50.0 149.8
145 30.5 16.2 48.5

