

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061923\
 Data File : VX036204.D
 Acq On : 19 Jun 2023 14:30
 Operator : JC/MD
 Sample : 03251-12RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

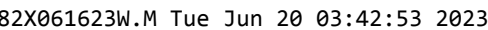
Quant Time: Jun 20 03:42:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 16 16:28:40 2023
 Response via : Initial Calibration

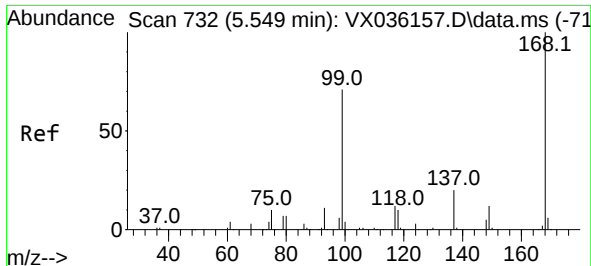
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.550	168	135060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	275668	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	258922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	112844	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	164637	66.705	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	133.400%#
35) Dibromofluoromethane	5.385	113	104044	55.658	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	111.320%
50) Toluene-d8	8.647	98	347210	50.777	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.560%
62) 4-Bromofluorobenzene	11.079	95	138083	50.026	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	100.060%
Target Compounds						
					Qvalue	
5) Bromomethane	1.618	94	260	0.253	ug/l #	75
16) Acetone	2.386	43	1251	1.220	ug/l	98
17) Carbon Disulfide	2.514	76	1430	0.397	ug/l #	88
20) Methylene Chloride	2.794	84	1128	0.607	ug/l #	74
31) Cyclohexane	5.550	56	3735	1.411	ug/l #	10
36) 1,1-Dichloropropene	5.550	75	12787	4.644	ug/l #	52
38) Carbon Tetrachloride	5.556	117	16137	6.028	ug/l #	15
68) m/p-Xylenes	10.299	106	818	0.226	ug/l	88
76) 1,2,3-Trichloropropane	11.079	75	77167	28.814	ug/l #	38
78) n-propylbenzene	11.305	91	2312	0.235	ug/l	93
79) 2-Chlorotoluene	11.360	91	1240	0.200	ug/l	91
80) 1,3,5-Trimethylbenzene	11.451	105	1801	0.253	ug/l	90
81) trans-1,4-Dichloro-2-b...	11.079	75	77167	100.855	ug/l #	5
82) 4-Chlorotoluene	11.451	91	1735	0.240	ug/l	92
83) tert-Butylbenzene	11.713	119	1644	0.243	ug/l	80
84) 1,2,4-Trimethylbenzene	11.750	105	1649	0.232	ug/l	89
85) sec-Butylbenzene	11.890	105	2263	0.268	ug/l	92
86) p-Isopropyltoluene	12.006	119	2209	0.311	ug/l #	71
87) 1,3-Dichlorobenzene	11.969	146	1317	0.352	ug/l	92
88) 1,4-Dichlorobenzene	11.969	146	1317	0.344	ug/l	93
89) n-Butylbenzene	12.335	91	2518	0.397	ug/l	91
90) Hexachloroethane	12.536	117	300	0.269	ug/l	96
91) 1,2-Dichlorobenzene	12.341	146	978	0.266	ug/l	88
93) 1,2,4-Trichlorobenzene	13.591	180	1508	0.724	ug/l	96
94) Hexachlorobutadiene	13.719	225	582	0.707	ug/l	87
95) Naphthalene	13.780	128	3405	0.474	ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	1533	0.734	ug/l	93

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

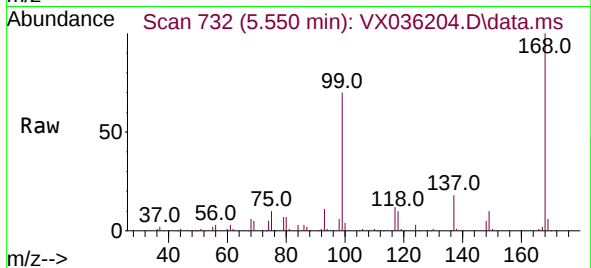
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061623W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 16 16:28:40 2023
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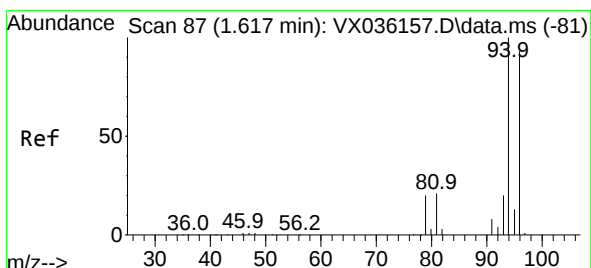
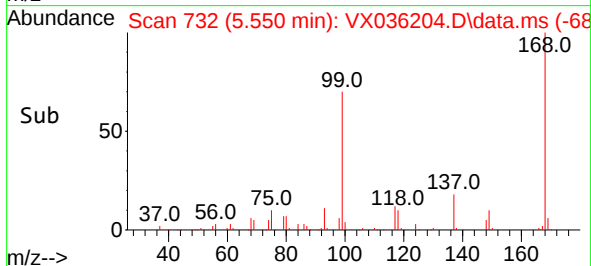
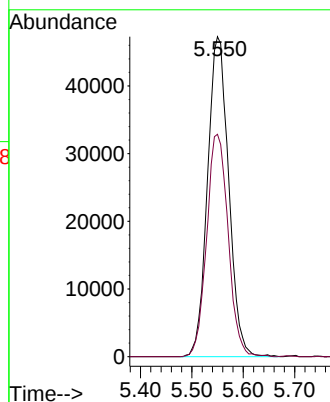


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Instrument :
MSVOA_X
ClientSampleId :

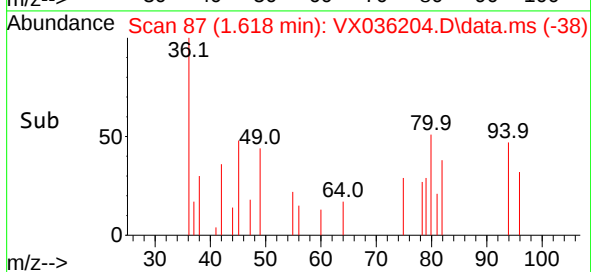
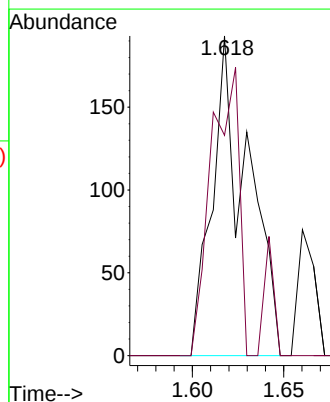
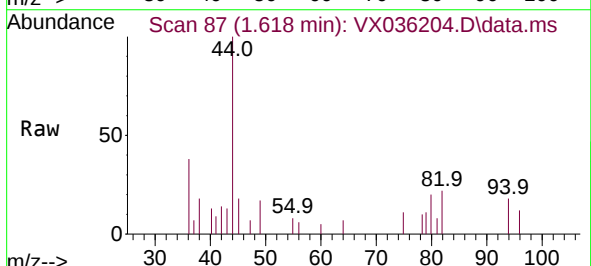


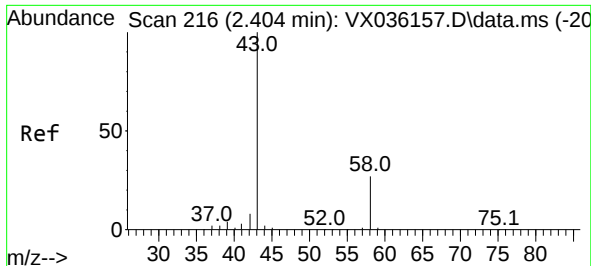
Tgt Ion:168 Resp: 135060
Ion Ratio Lower Upper
168 100
99 69.5 56.6 85.0



#5
Bromomethane
Concen: 0.253 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.001 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion: 94 Resp: 260
Ion Ratio Lower Upper
94 100
96 68.9 74.6 111.8#

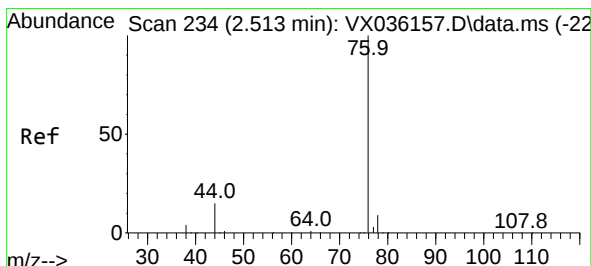
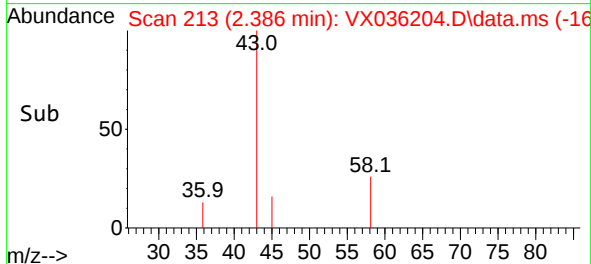
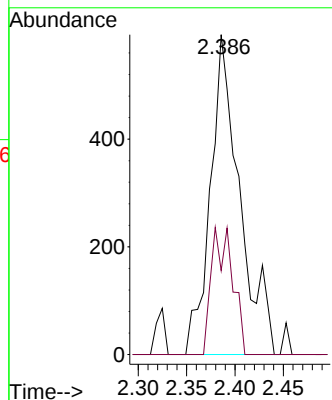
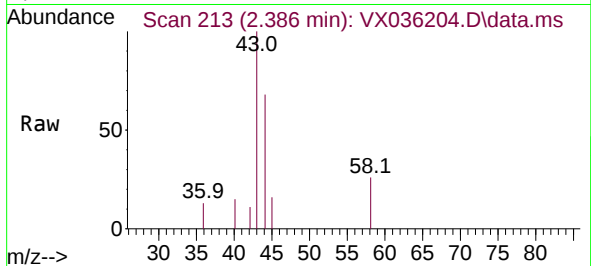




#16
Acetone
Concen: 1.220 ug/l
RT: 2.386 min Scan# 216
Delta R.T. -0.018 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

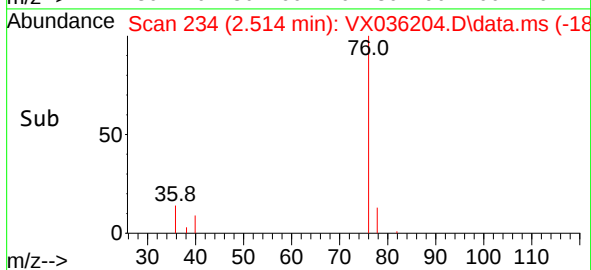
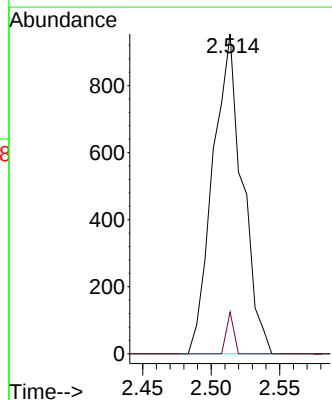
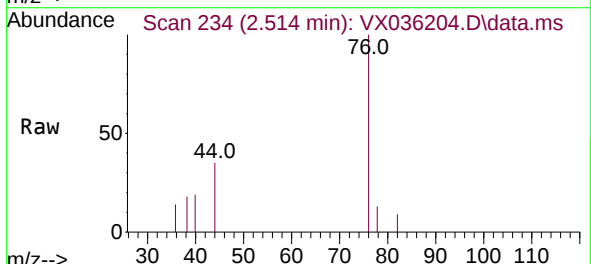
Instrument :
MSVOA_X
ClientSampleId :

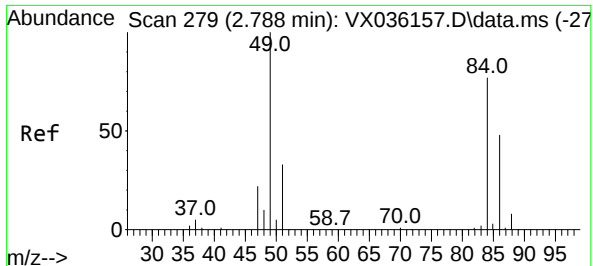
Tgt Ion: 43 Resp: 1251
Ion Ratio Lower Upper
43 100
58 26.3 21.9 32.9



#17
Carbon Disulfide
Concen: 0.397 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.001 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

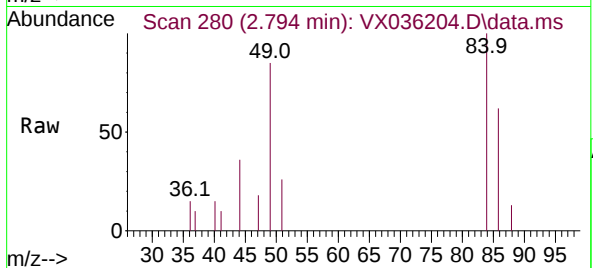
Tgt Ion: 76 Resp: 1430
Ion Ratio Lower Upper
76 100
78 13.1 7.0 10.6#



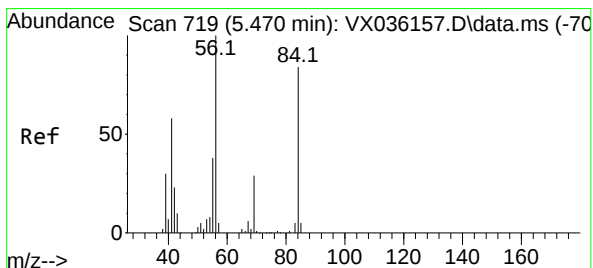
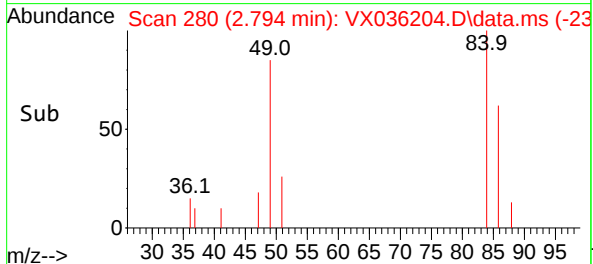
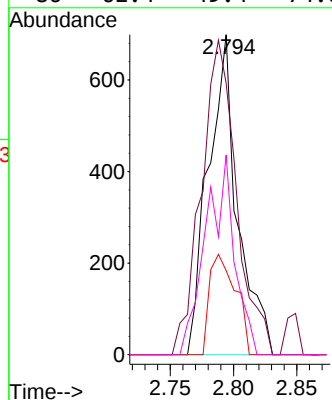


#20
Methylene Chloride
Concen: 0.607 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Instrument :
MSVOA_X
ClientSampleId :

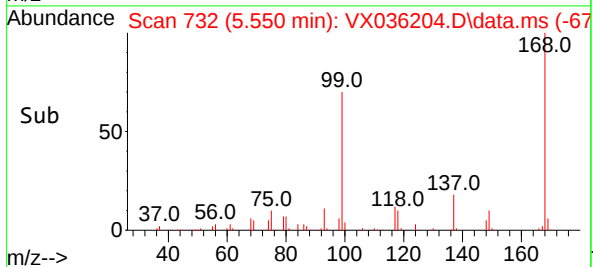
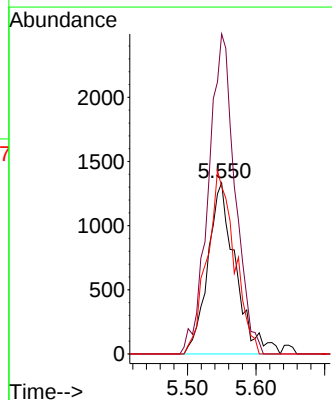
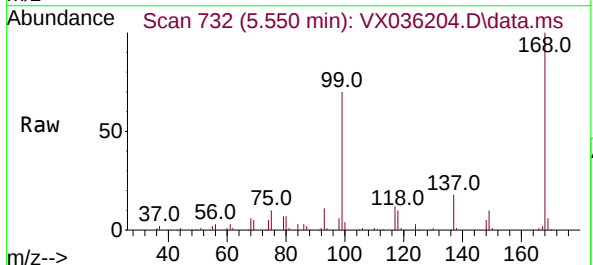


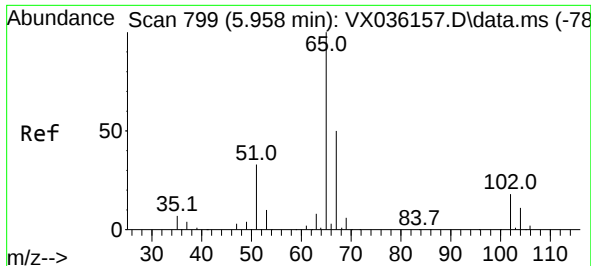
Tgt Ion:	84	Resp:	1128
Ion	Ratio	Lower	Upper
84	100		
49	84.8	103.6	155.4#
51	26.3	33.8	50.6#
86	62.4	49.4	74.0



#31
Cyclohexane
Concen: 1.411 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.080 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion:	56	Resp:	3735
Ion	Ratio	Lower	Upper
56	100		
69	187.1	23.4	35.2#
84	97.8	65.9	98.9





#33

1,2-Dichloroethane-d4

Concen: 66.705 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

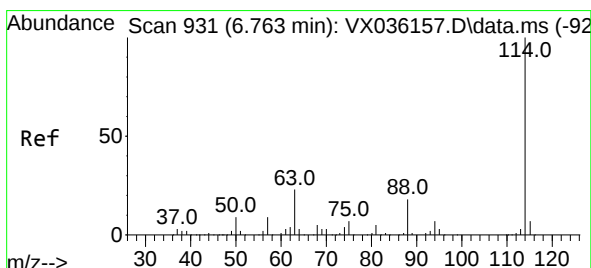
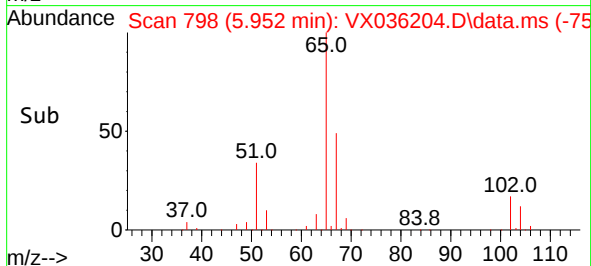
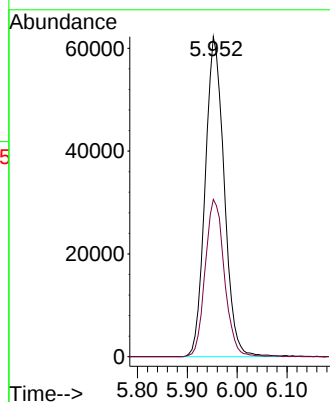
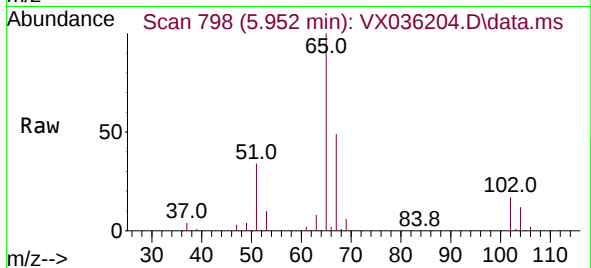
ClientSampleId :

Tgt Ion: 65 Resp: 164637

Ion Ratio Lower Upper

65 100

67 49.6 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

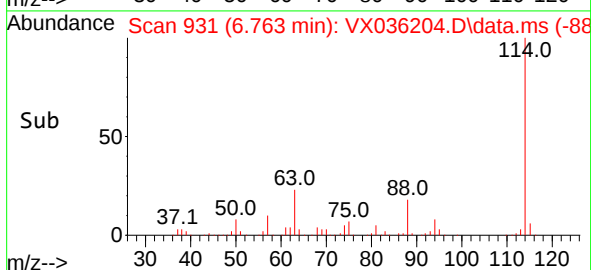
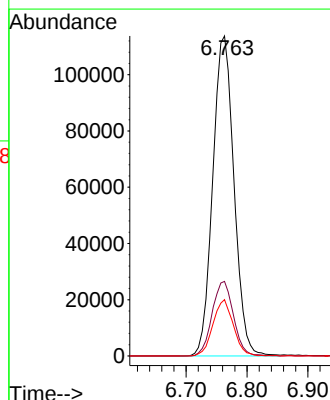
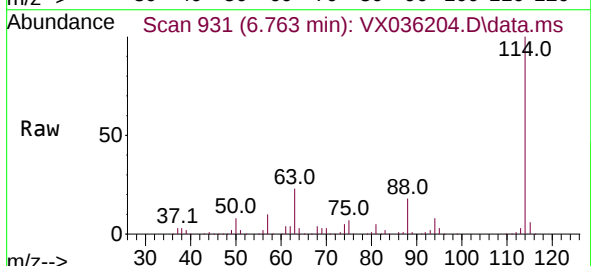
Tgt Ion: 114 Resp: 275668

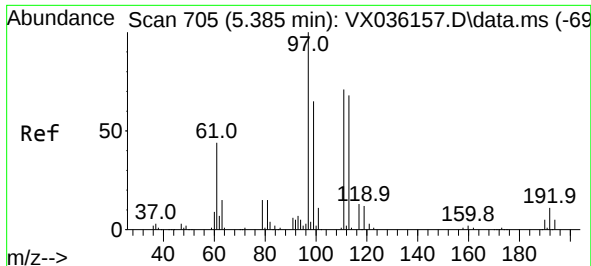
Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.0

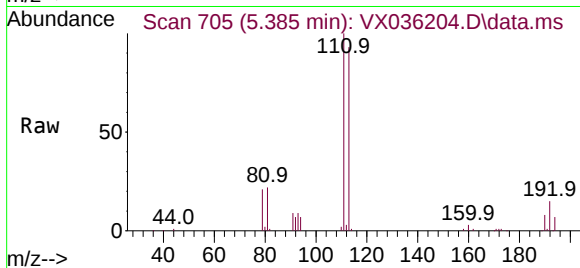
88 17.6 0.0 36.6



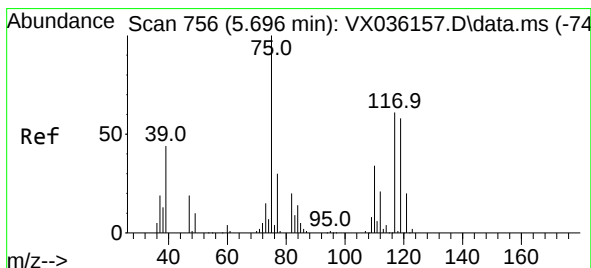
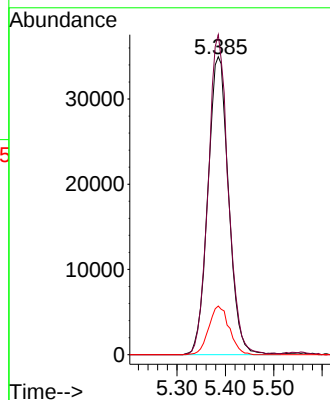
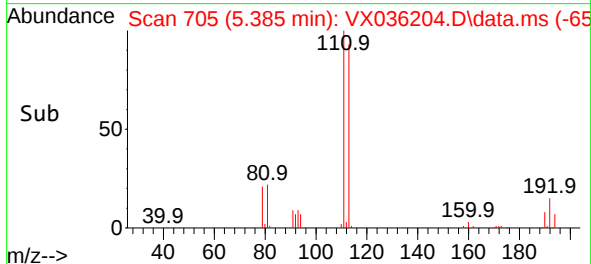


#35
Dibromofluoromethane
Concen: 55.658 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Instrument :
MSVOA_X
ClientSampleId :

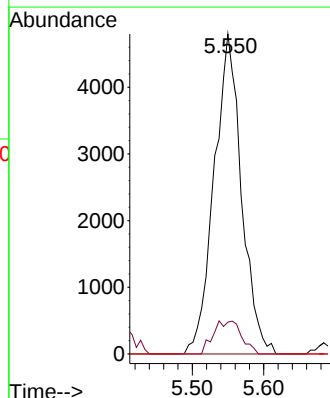
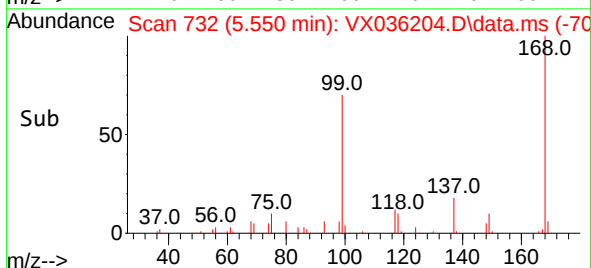
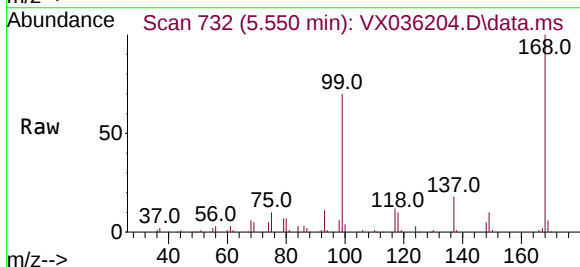


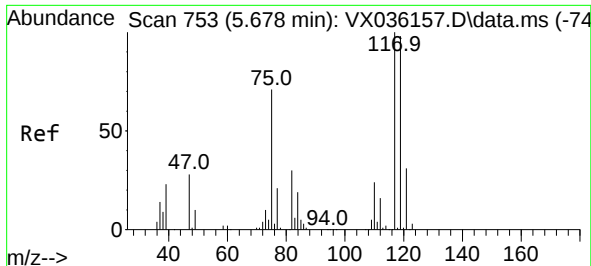
Tgt Ion:113 Resp: 104044
Ion Ratio Lower Upper
113 100
111 103.8 82.9 124.3
192 16.2 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.644 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.146 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

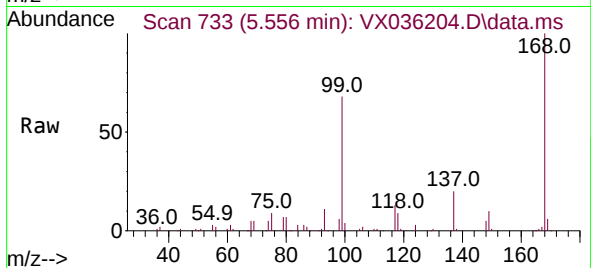
Tgt Ion: 75 Resp: 12787
Ion Ratio Lower Upper
75 100
110 10.6 17.0 50.9#
77 0.0 24.7 37.1#



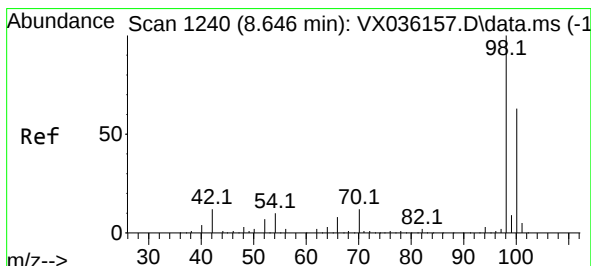
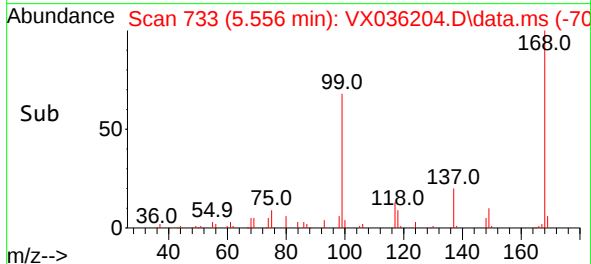
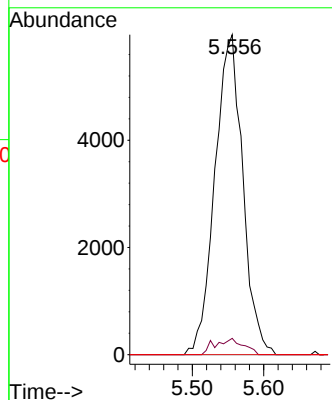


#38
Carbon Tetrachloride
Concen: 6.028 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Instrument :
MSVOA_X
ClientSampleId :

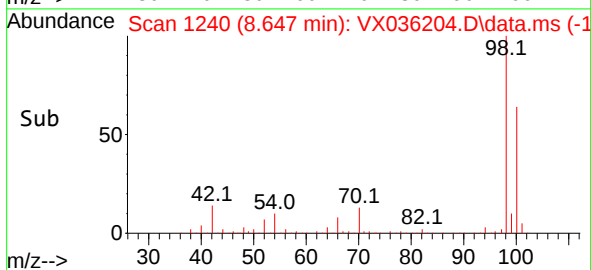
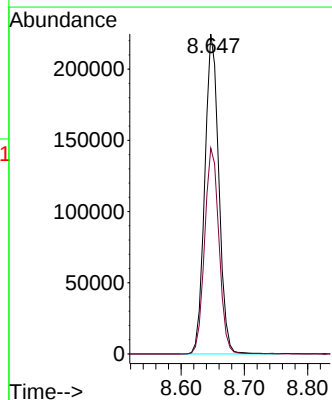
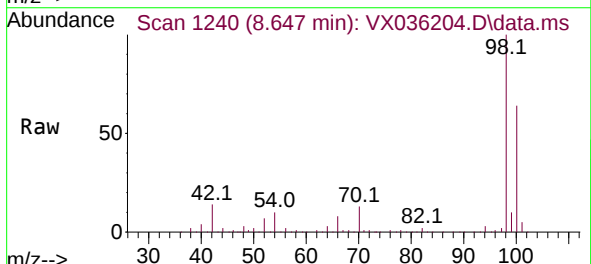


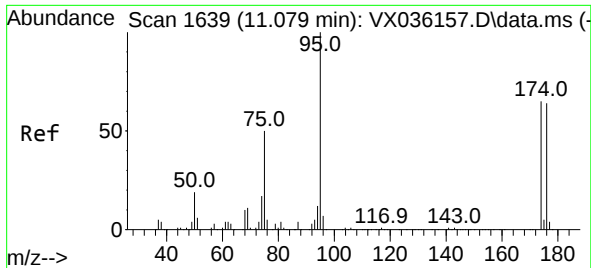
Tgt Ion:117 Resp: 16137
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.2#
121 0.0 24.4 36.6#



#50
Toluene-d8
Concen: 50.777 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion: 98 Resp: 347210
Ion Ratio Lower Upper
98 100
100 65.9 53.1 79.7

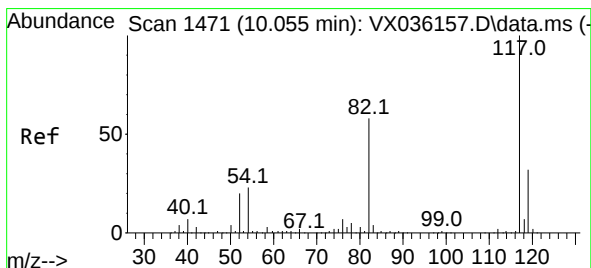
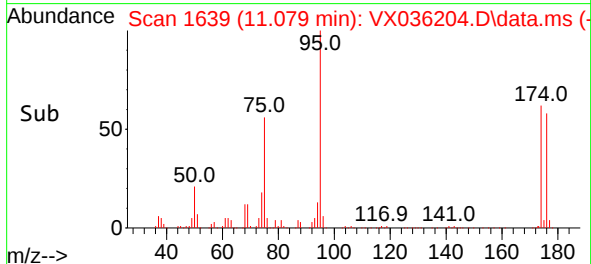
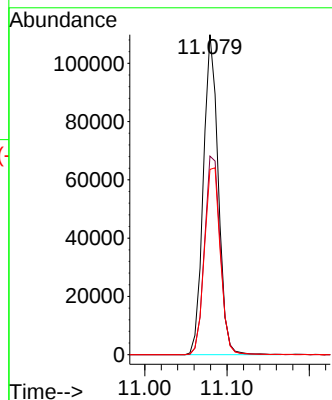
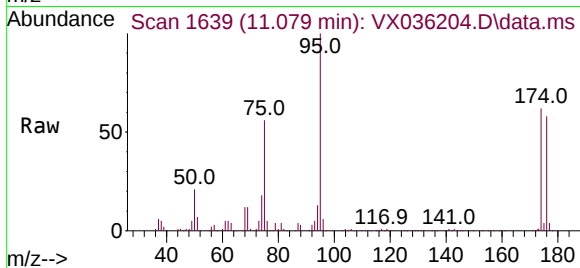




#62
4-Bromofluorobenzene
Concen: 50.026 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

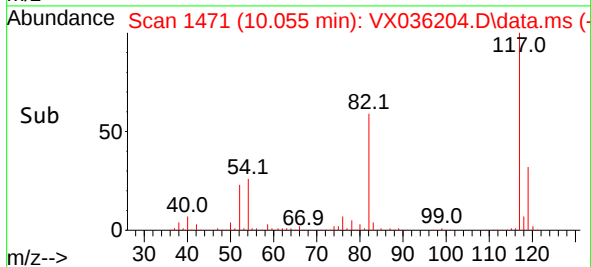
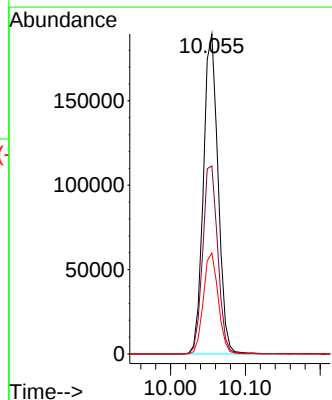
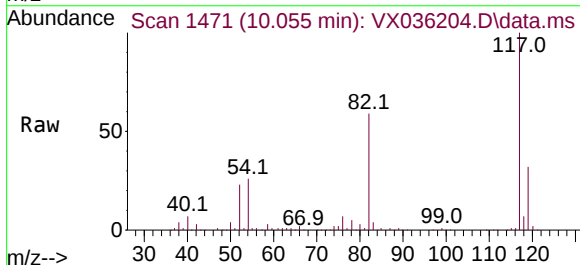
Instrument :
MSVOA_X
ClientSampleId :

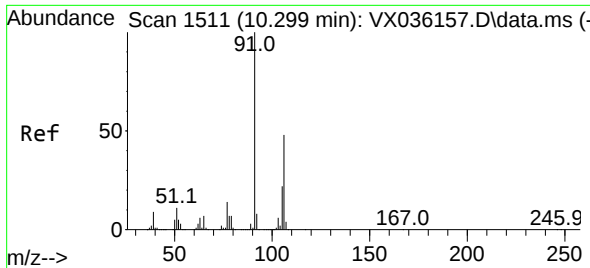
Tgt Ion: 95 Resp: 138083
Ion Ratio Lower Upper
95 100
174 65.7 0.0 135.6
176 62.8 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion: 117 Resp: 258922
Ion Ratio Lower Upper
117 100
82 58.7 46.2 69.4
119 31.5 25.5 38.3

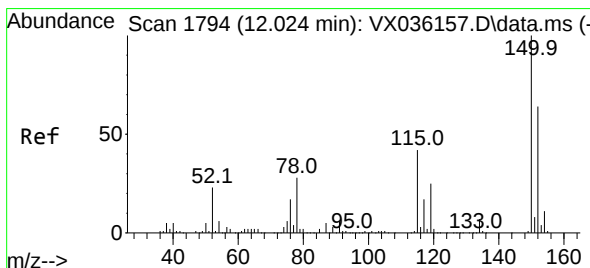
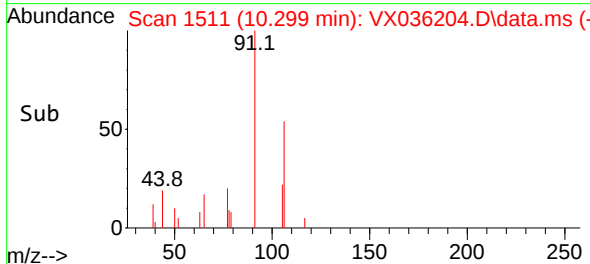
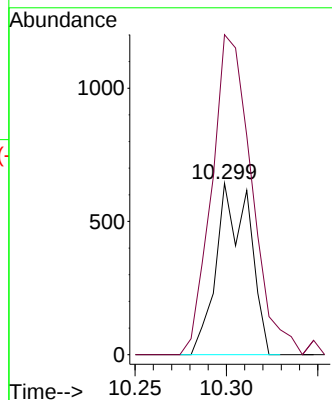
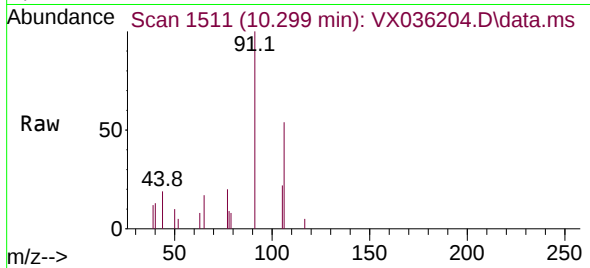




#68
m/p-Xylenes
Concen: 0.226 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

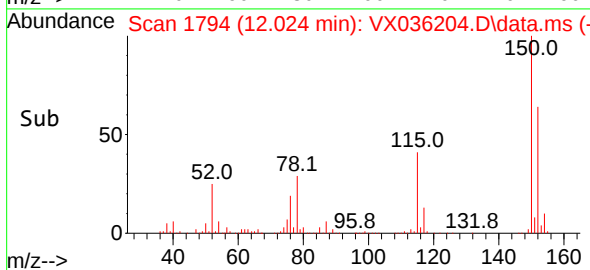
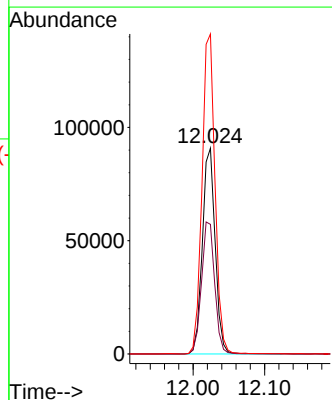
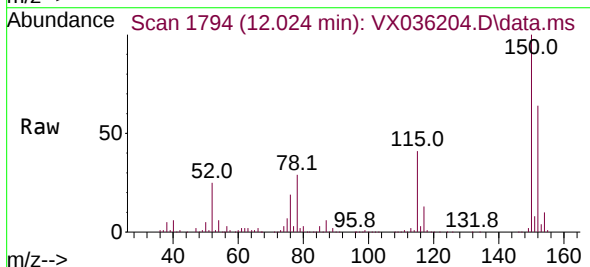
Instrument :
MSVOA_X
ClientSampleId :

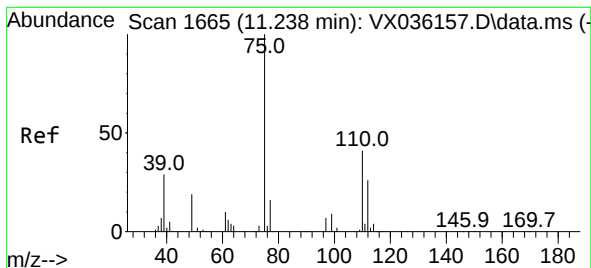
Tgt Ion:106 Resp: 818
Ion Ratio Lower Upper
106 100
91 225.8 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion:152 Resp: 112844
Ion Ratio Lower Upper
152 100
115 66.2 43.3 129.9
150 158.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 28.814 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

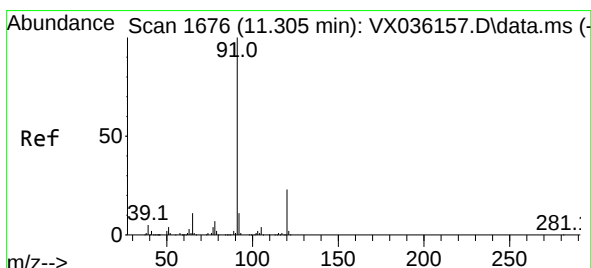
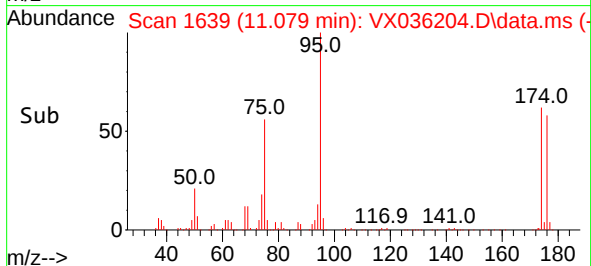
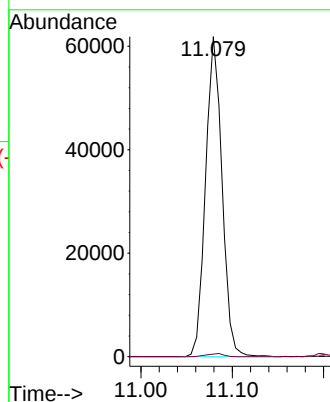
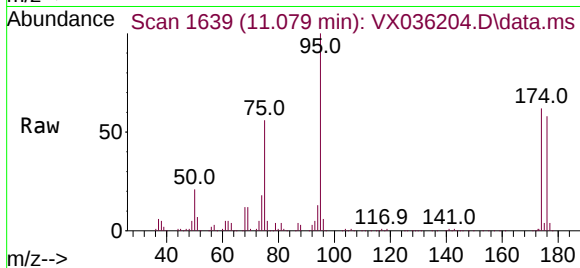
ClientSampleId :

Tgt Ion: 75 Resp: 77167

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#78

n-propylbenzene

Concen: 0.235 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX036204.D

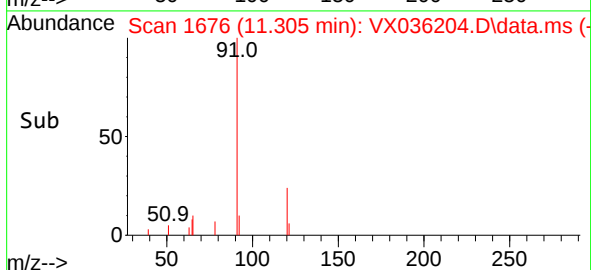
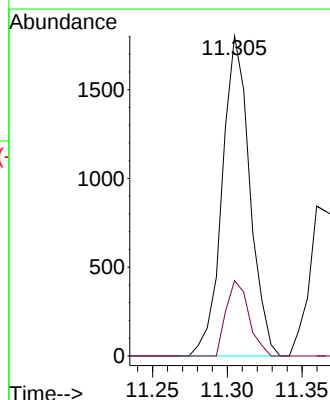
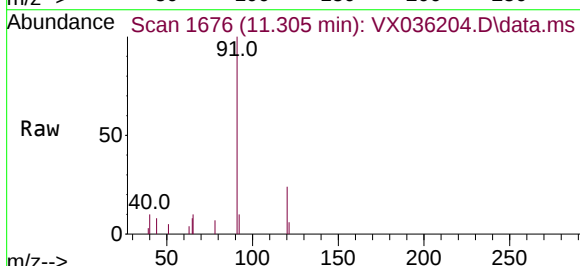
Acq: 19 Jun 2023 14:30

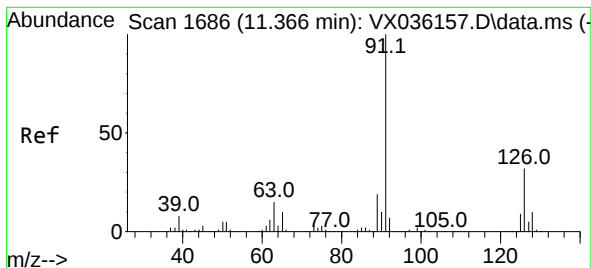
Tgt Ion: 91 Resp: 2312

Ion Ratio Lower Upper

91 100

120 19.4 11.5 34.4





#79

2-Chlorotoluene

Concen: 0.200 ug/l

RT: 11.360 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

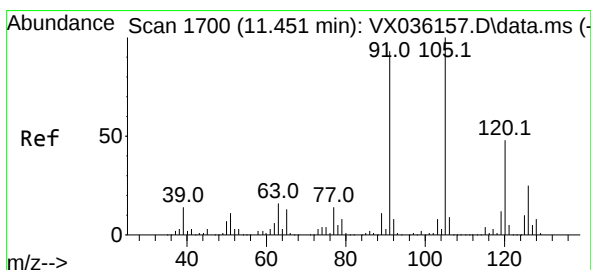
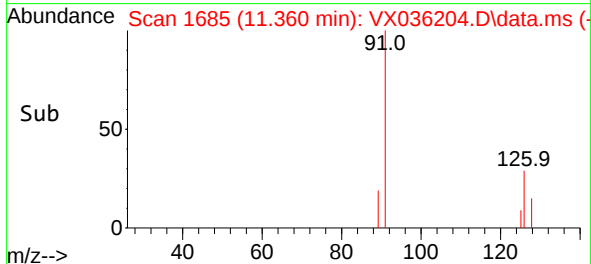
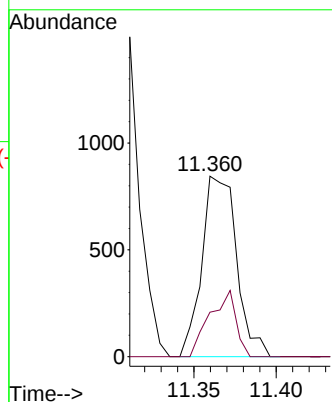
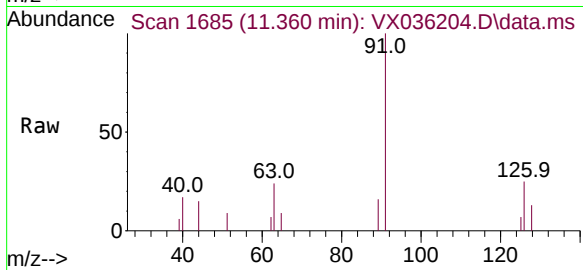
ClientSampleId :

Tgt Ion: 91 Resp: 1240

Ion Ratio Lower Upper

91 100

126 27.6 16.3 48.8



#80

1,3,5-Trimethylbenzene

Concen: 0.253 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX036204.D

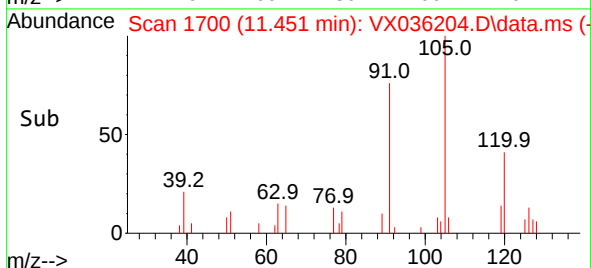
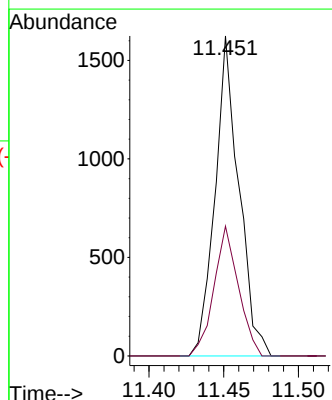
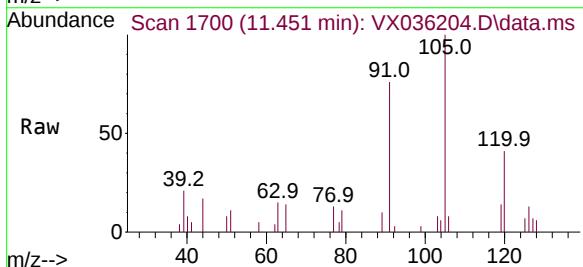
Acq: 19 Jun 2023 14:30

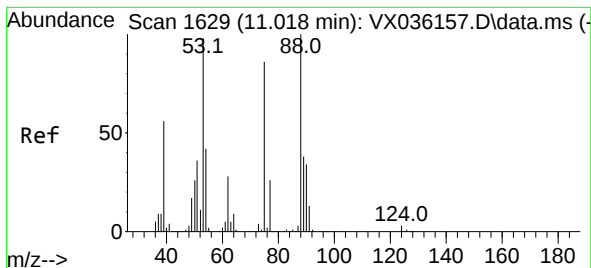
Tgt Ion: 105 Resp: 1801

Ion Ratio Lower Upper

105 100

120 41.6 24.1 72.3

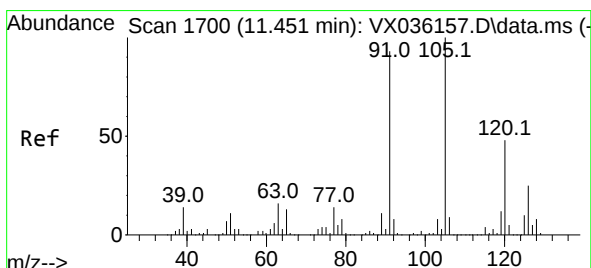
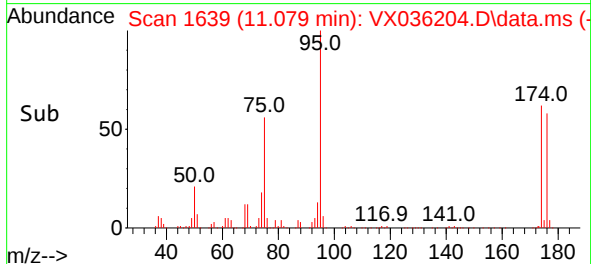
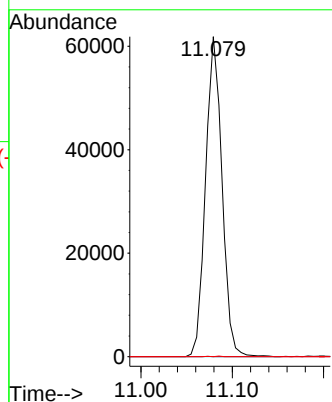
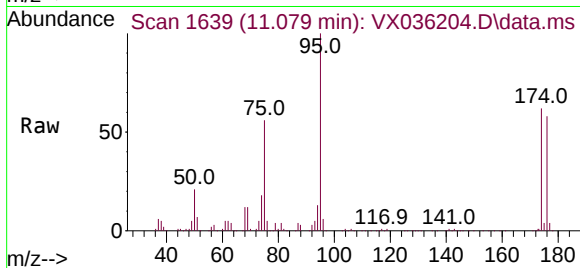




#81
trans-1,4-Dichloro-2-butene
Concen: 100.855 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

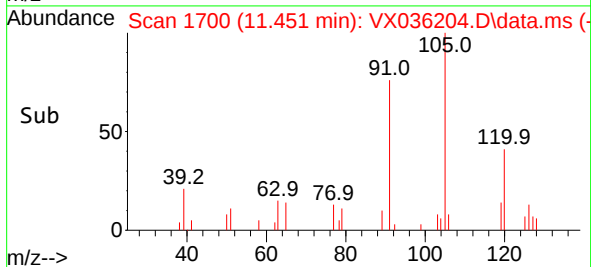
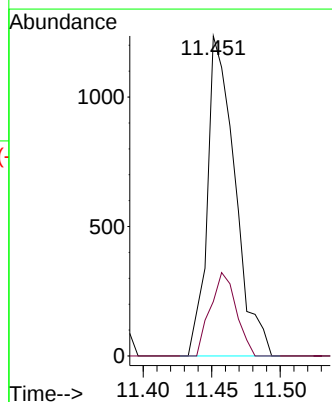
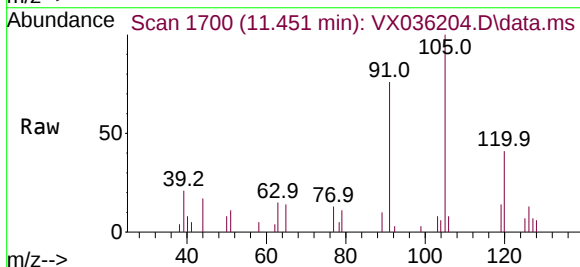
Instrument :
MSVOA_X
ClientSampleId :

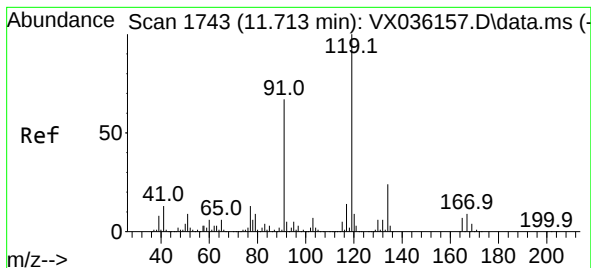
Tgt Ion: 75 Resp: 77167
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.1 36.9 55.3#



#82
4-Chlorotoluene
Concen: 0.240 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion: 91 Resp: 1735
Ion Ratio Lower Upper
91 100
126 24.3 14.2 42.6





#83

tert-Butylbenzene

Concen: 0.243 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX036204.D

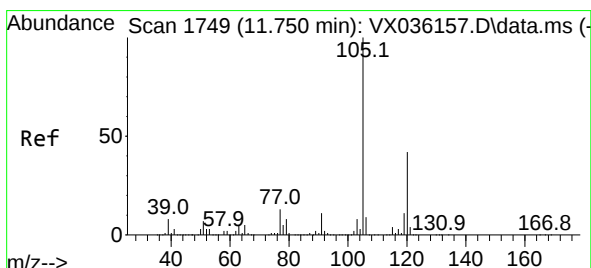
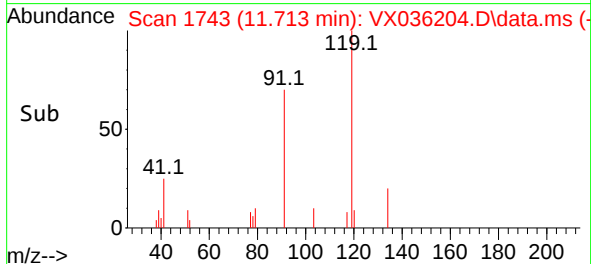
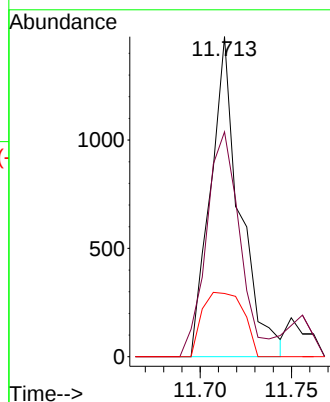
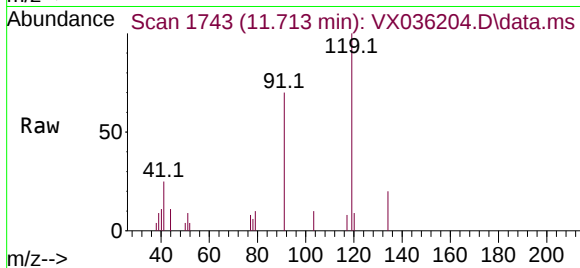
Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:119	Resp:	1644
Ion	Ratio	Lower Upper
119	100	
91	80.7	31.2 93.6
134	28.3	11.7 35.0



#84

1,2,4-Trimethylbenzene

Concen: 0.232 ug/l

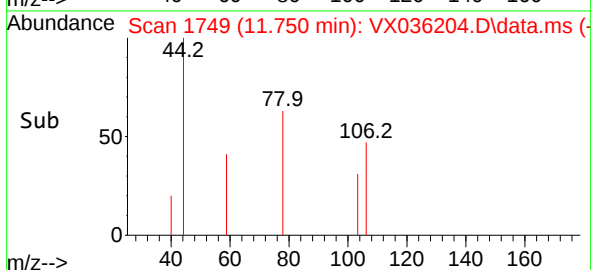
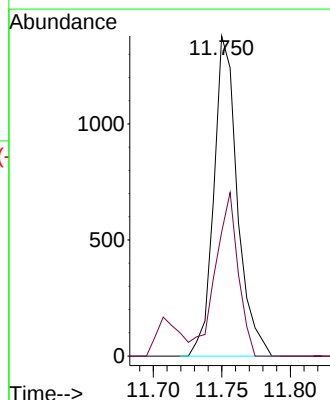
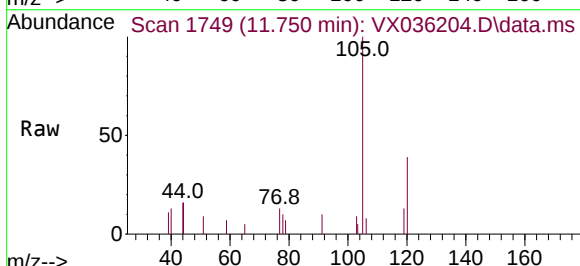
RT: 11.750 min Scan# 1749

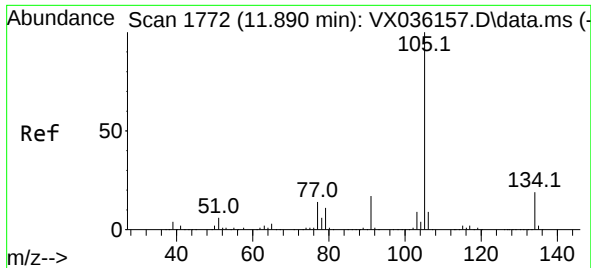
Delta R.T. -0.000 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Tgt Ion:105	Resp:	1649
Ion	Ratio	Lower Upper
105	100	
120	49.4	21.2 63.6

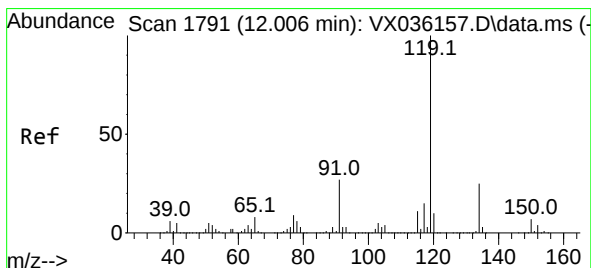
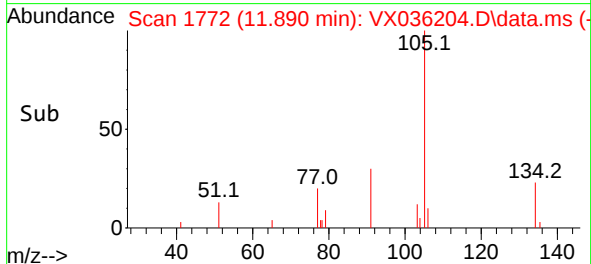
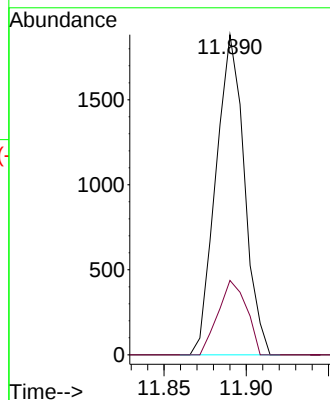
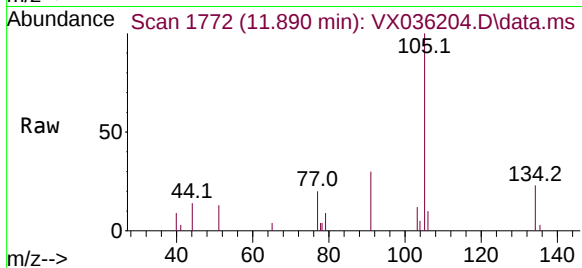




#85
 sec-Butylbenzene
 Concen: 0.268 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX036204.D
 Acq: 19 Jun 2023 14:30

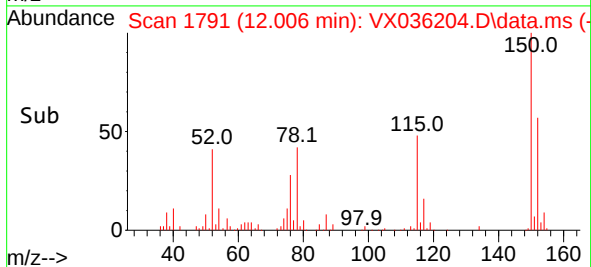
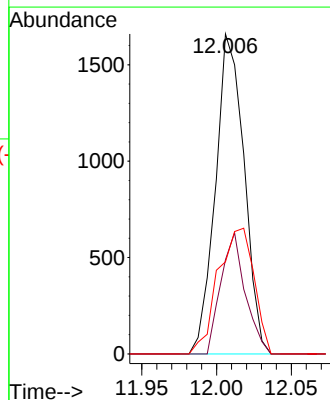
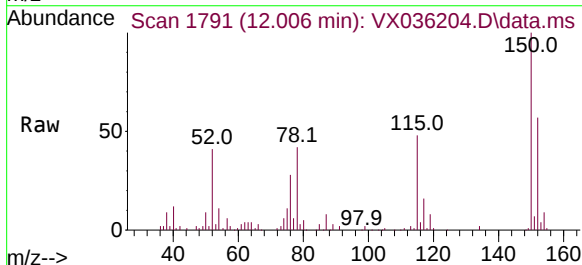
Instrument :
 MSVOA_X
 ClientSampleId :

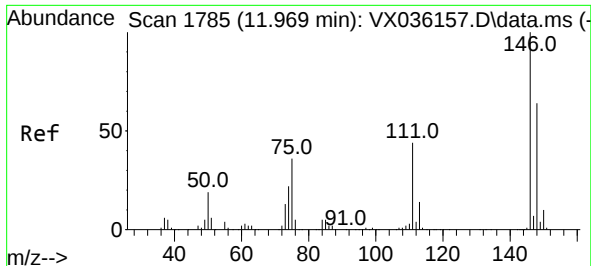
Tgt Ion:105 Resp: 2263
 Ion Ratio Lower Upper
 105 100
 134 23.2 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 0.311 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX036204.D
 Acq: 19 Jun 2023 14:30

Tgt Ion:119 Resp: 2209
 Ion Ratio Lower Upper
 119 100
 134 32.4 12.8 38.3
 91 49.1 13.1 39.3#





#87

1,3-Dichlorobenzene

Concen: 0.352 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

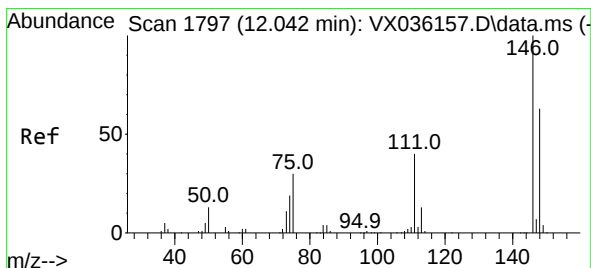
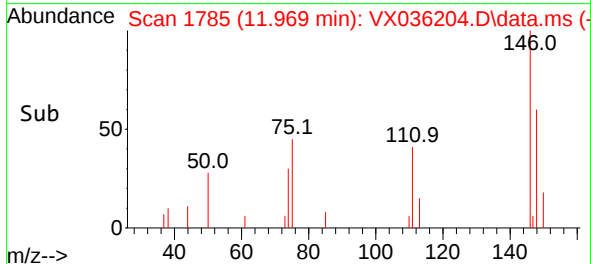
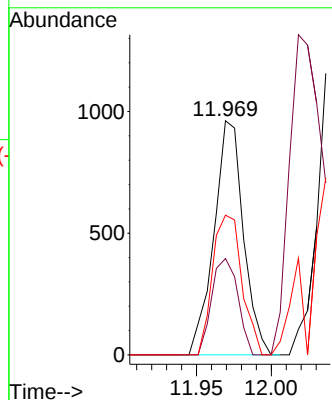
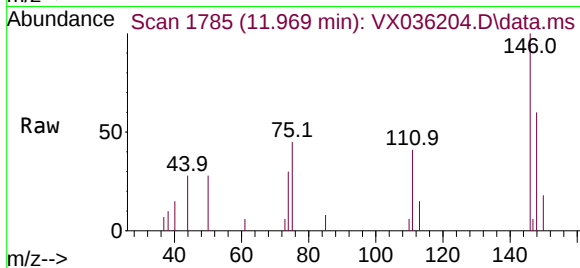
Tgt Ion:146 Resp: 1317

Ion Ratio Lower Upper

146 100

111 36.4 22.1 66.1

148 59.4 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.344 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.073 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

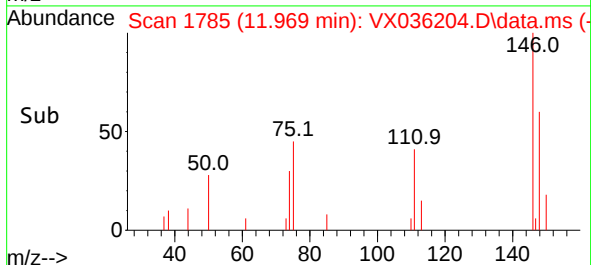
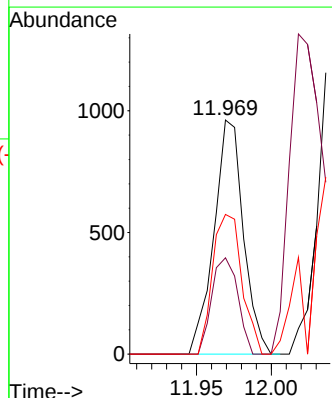
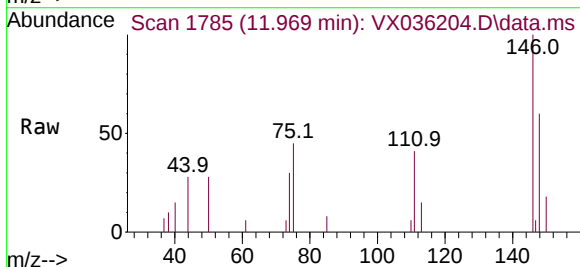
Tgt Ion:146 Resp: 1317

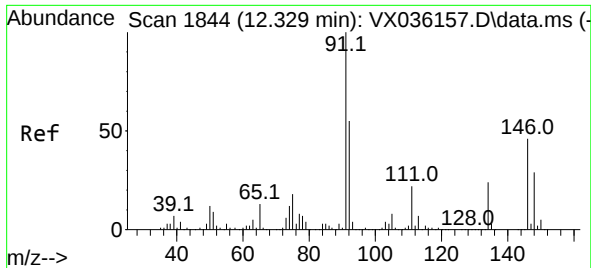
Ion Ratio Lower Upper

146 100

111 36.4 21.3 63.7

148 59.4 31.8 95.4





#89

n-Butylbenzene

Concen: 0.397 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

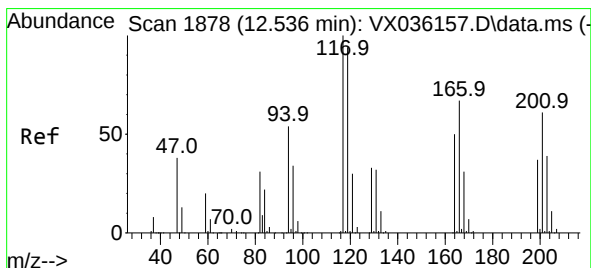
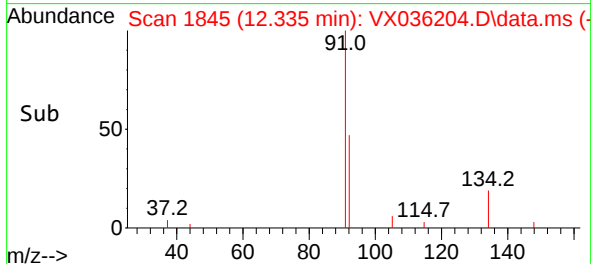
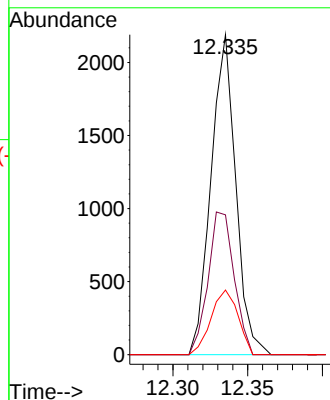
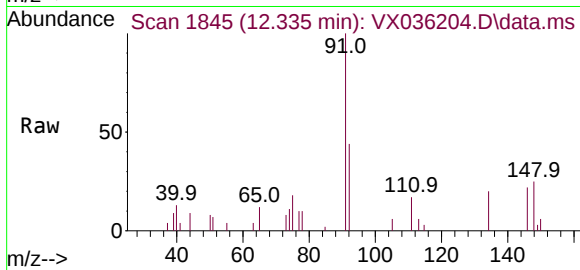
Tgt Ion: 91 Resp: 2518

Ion Ratio Lower Upper

91 100

92 47.0 27.4 82.0

134 22.0 12.6 37.8



#90

Hexachloroethane

Concen: 0.269 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX036204.D

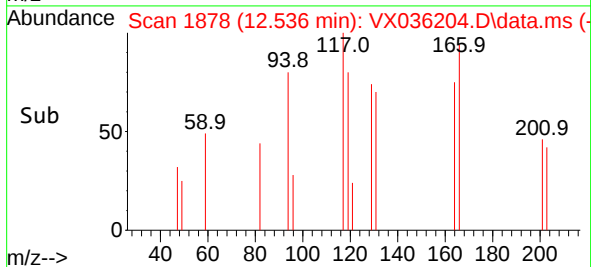
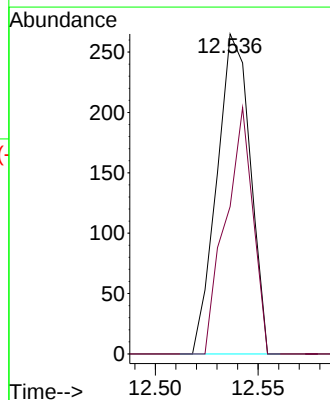
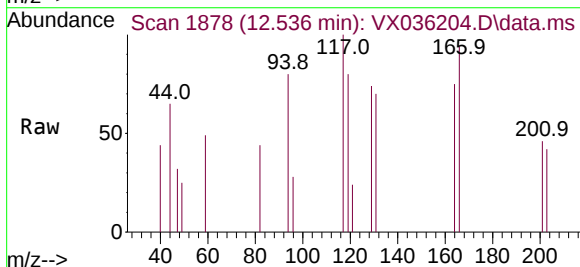
Acq: 19 Jun 2023 14:30

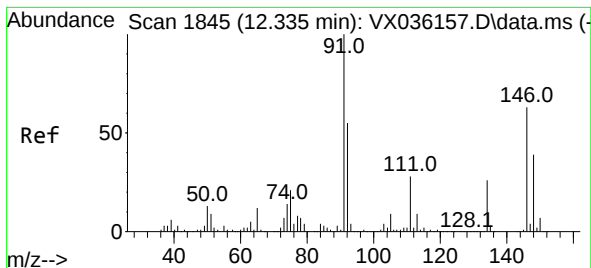
Tgt Ion: 117 Resp: 300

Ion Ratio Lower Upper

117 100

201 62.7 32.9 98.6





#91

1,2-Dichlorobenzene

Concen: 0.266 ug/l

RT: 12.341 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :

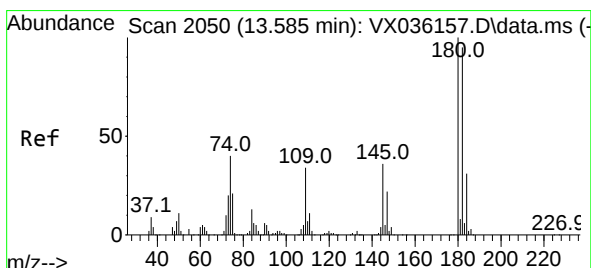
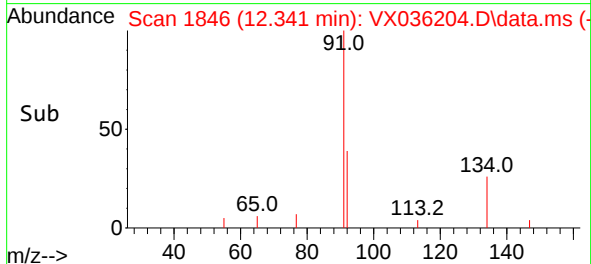
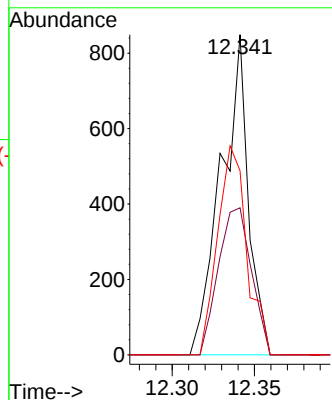
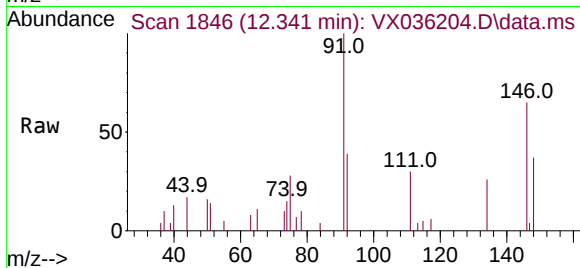
Tgt Ion:146 Resp: 978

Ion Ratio Lower Upper

146 100

111 55.8 22.4 67.0

148 69.6 31.6 95.0



#93

1,2,4-Trichlorobenzene

Concen: 0.724 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

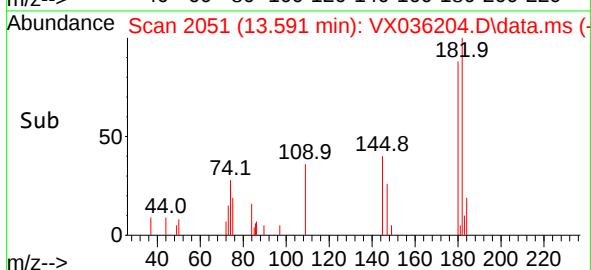
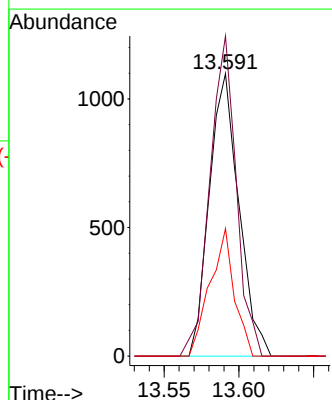
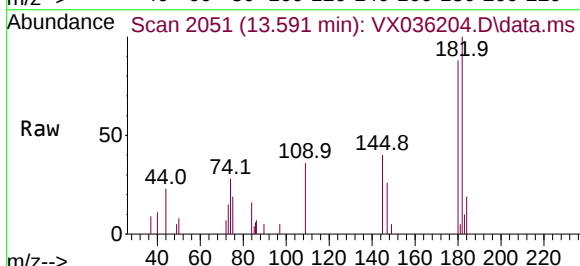
Tgt Ion:180 Resp: 1508

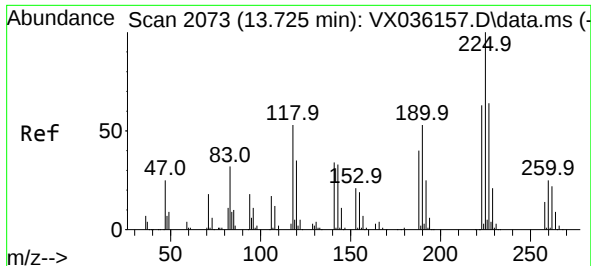
Ion Ratio Lower Upper

180 100

182 101.0 48.3 144.8

145 37.1 18.0 54.0

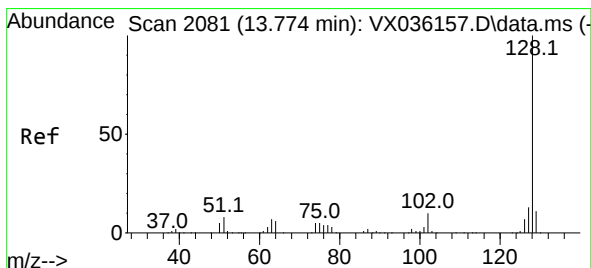
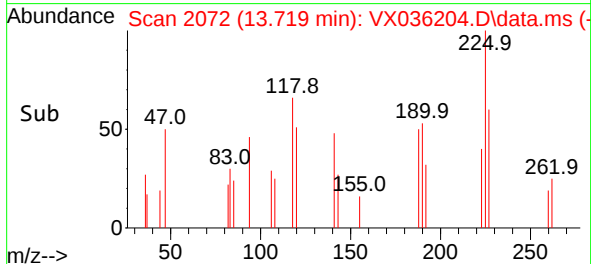
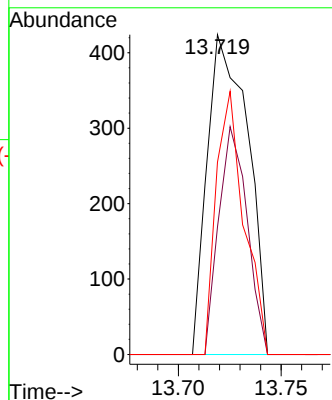
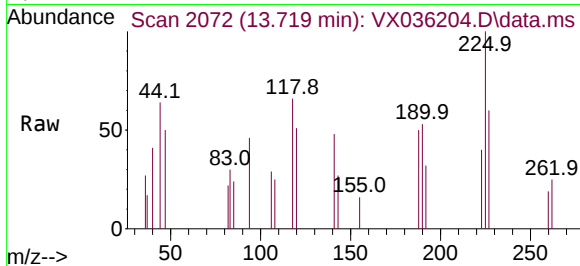




#94
Hexachlorobutadiene
Concen: 0.707 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

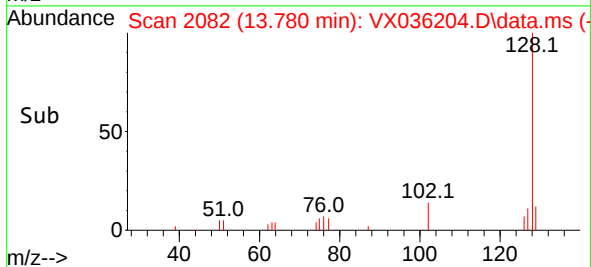
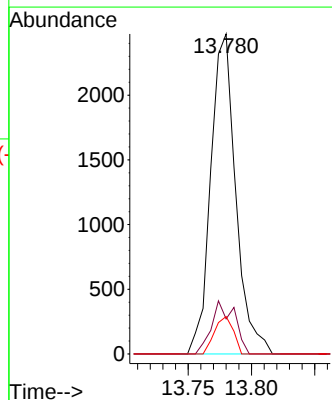
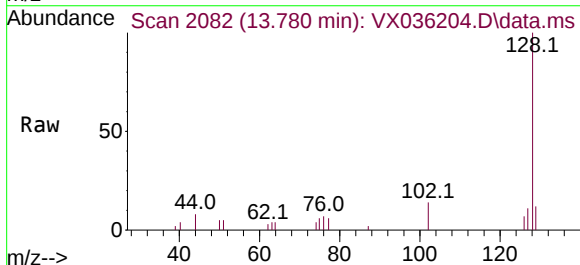
Instrument :
MSVOA_X
ClientSampleId :

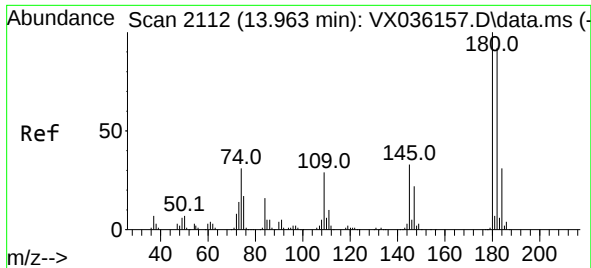
Tgt Ion:225 Resp: 582
Ion Ratio Lower Upper
225 100
223 49.8 31.1 93.2
227 56.5 32.5 97.5



#95
Naphthalene
Concen: 0.474 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX036204.D
Acq: 19 Jun 2023 14:30

Tgt Ion:128 Resp: 3405
Ion Ratio Lower Upper
128 100
127 15.2 10.3 15.5
129 8.8 8.8 13.2#





#96

1,2,3-Trichlorobenzene

Concen: 0.734 ug/l

RT: 13.963 min Scan# 21

Delta R.T. -0.000 min

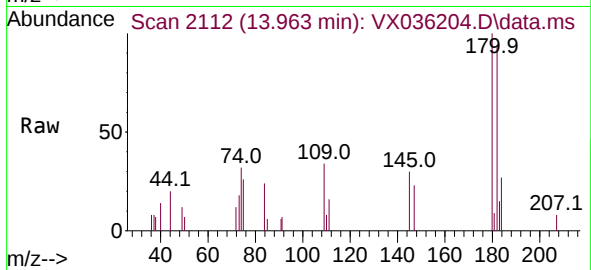
Lab File: VX036204.D

Acq: 19 Jun 2023 14:30

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:180 Resp: 1533

Ion Ratio Lower Upper

180 100

182 84.5 46.9 140.6

145 34.6 17.8 53.5

