

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051223\
 Data File : VX035630.D
 Acq On : 12 May 2023 12:11
 Operator : JC/MD
 Sample : 02702-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 33998

Quant Time: May 15 01:53:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051123W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 11 13:57:54 2023
 Response via : Initial Calibration

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

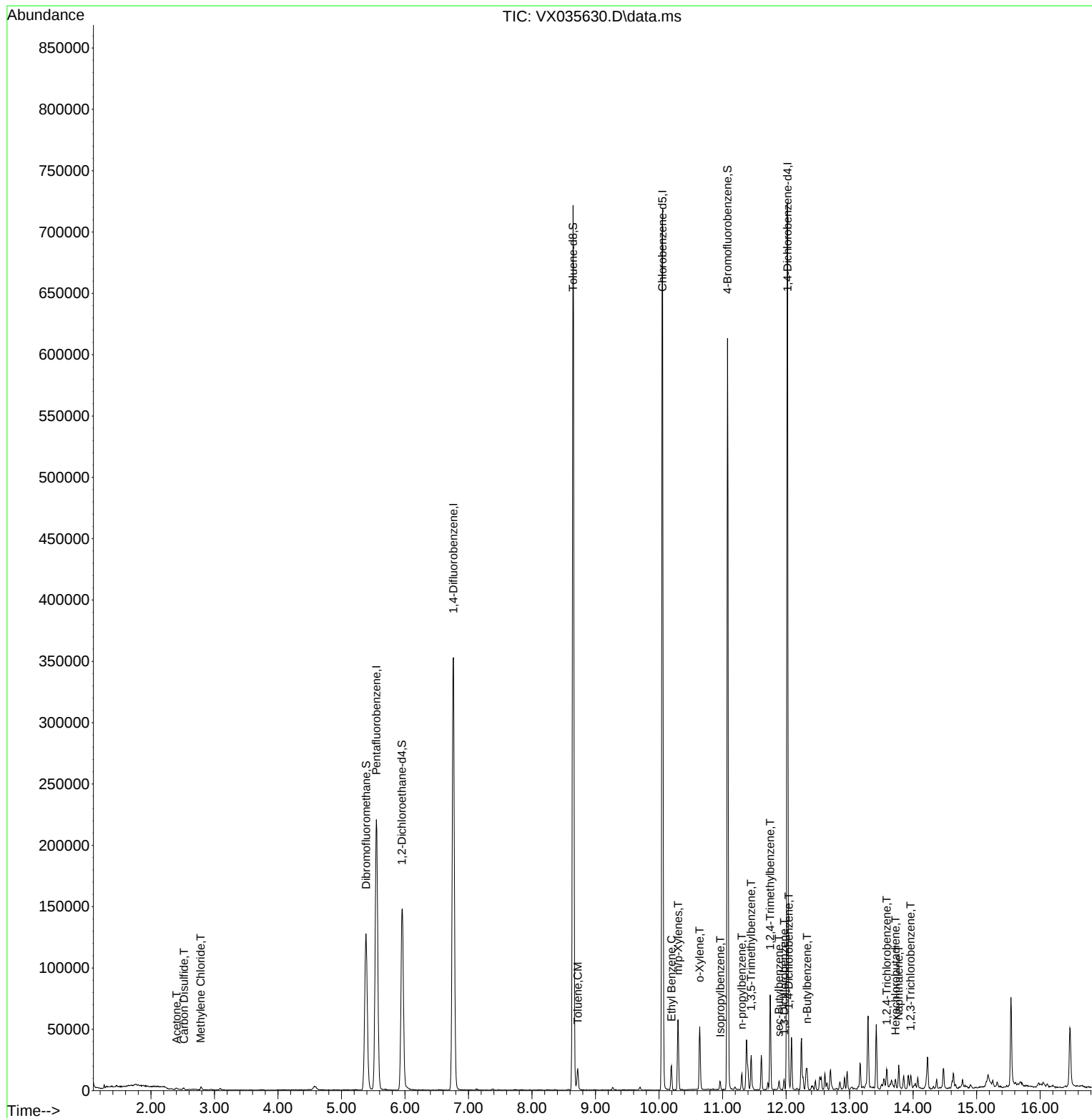
Internal Standards						
1) Pentafluorobenzene	5.550	168	188183	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	340781	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	306758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	139919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	153288	46.693	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	93.380%
35) Dibromofluoromethane	5.385	113	112091	48.773	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.540%
50) Toluene-d8	8.647	98	407402	47.985	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.980%
62) 4-Bromofluorobenzene	11.079	95	165130	48.305	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.600%
Target Compounds						
					Qvalue	
16) Acetone	2.404	43	1741	1.234	ug/l	97
17) Carbon Disulfide	2.520	76	1766	0.349	ug/l	# 94
20) Methylene Chloride	2.782	84	1116	0.436	ug/l	# 81
52) Toluene	8.720	92	6391	0.998	ug/l	93
67) Ethyl Benzene	10.195	91	11312	0.898	ug/l	96
68) m/p-Xylenes	10.299	106	11902	2.557	ug/l	88
69) o-Xylene	10.640	106	10113	2.189	ug/l	95
73) Isopropylbenzene	10.963	105	3484	0.295	ug/l	98
78) n-propylbenzene	11.305	91	7699	0.556	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	10011	0.999	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	33097	3.289	ug/l	96
85) sec-Butylbenzene	11.890	105	3819	0.312	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	1325	0.261	ug/l	86
88) 1,4-Dichlorobenzene	12.043	146	1770m	0.345	ug/l	
89) n-Butylbenzene	12.329	91	5652	0.618	ug/l	# 72
93) 1,2,4-Trichlorobenzene	13.585	180	1928	0.643	ug/l	87
94) Hexachlorobutadiene	13.725	225	969	0.814	ug/l	89
95) Naphthalene	13.774	128	11234	1.094	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	1713	0.581	ug/l	90

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

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Quant Time: May 15 01:53:40 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X051123W.M
Quant Title : SW846 8260
QLast Update : Thu May 11 13:57:54 2023
Response via : Initial Calibration

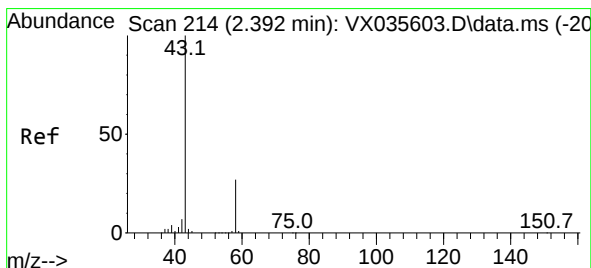
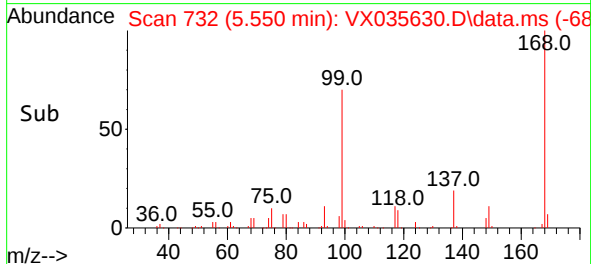
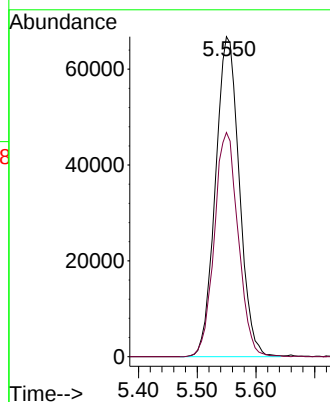
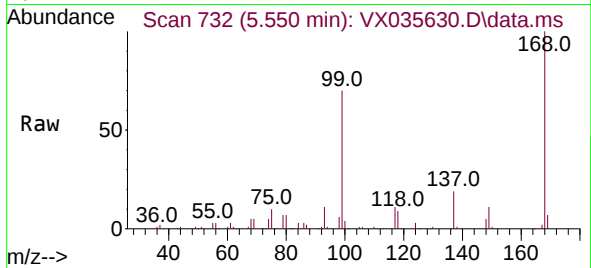




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

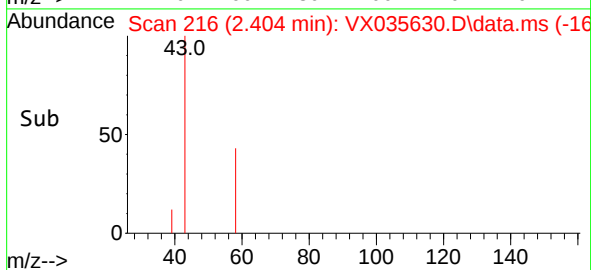
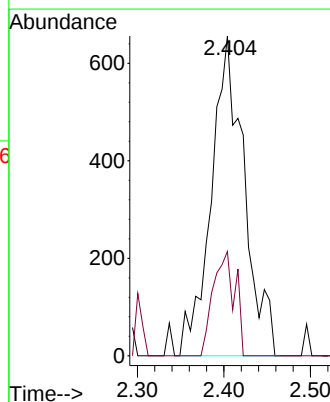
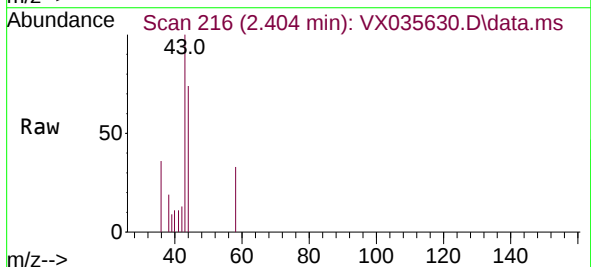
Instrument :
MSVOA_X
ClientSampleId :
33998

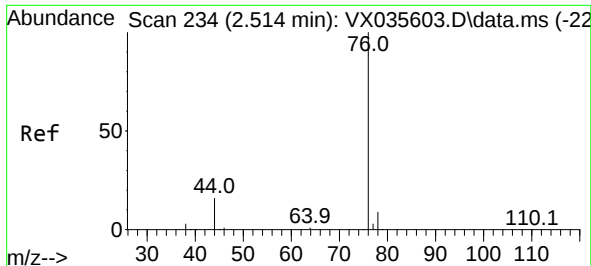
Tgt Ion:168 Resp: 188183
Ion Ratio Lower Upper
168 100
99 70.1 45.7 68.5#



#16
Acetone
Concen: 1.234 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.012 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion: 43 Resp: 1741
Ion Ratio Lower Upper
43 100
58 32.6 24.7 37.1

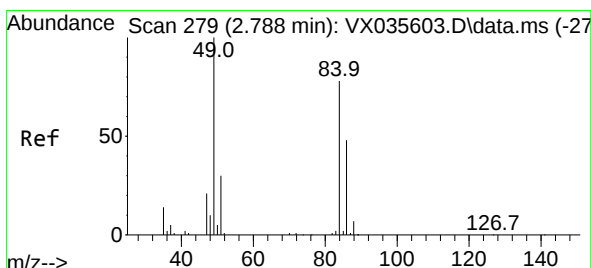
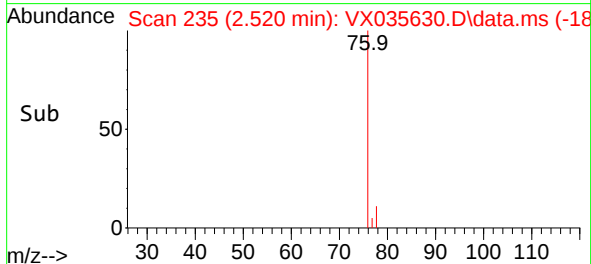
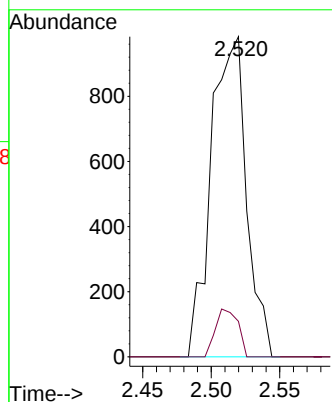
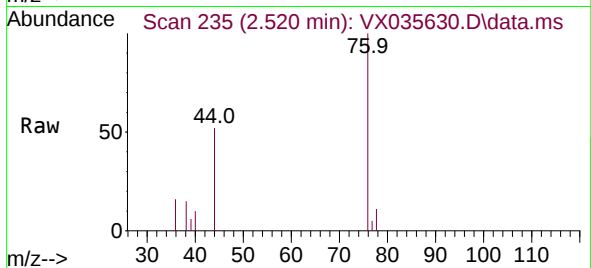




#17
Carbon Disulfide
Concen: 0.349 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

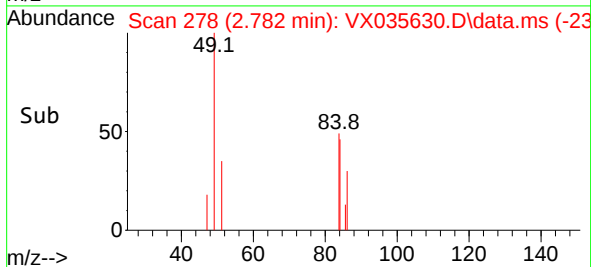
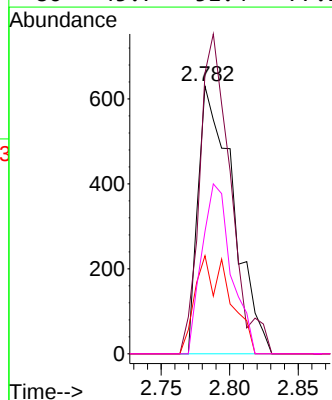
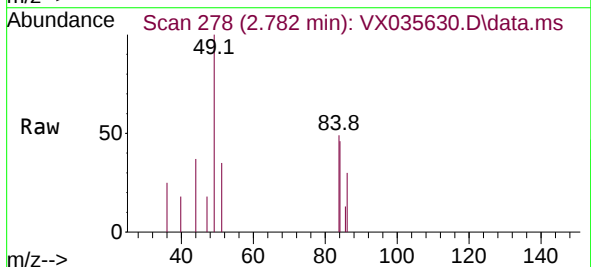
Instrument :
MSVOA_X
ClientSampleId :
33998

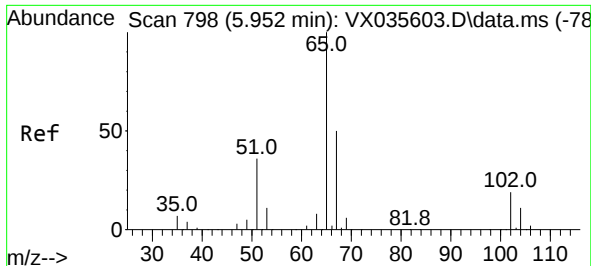
Tgt Ion: 76 Resp: 1766
Ion Ratio Lower Upper
76 100
78 11.1 7.2 10.8#



#20
Methylene Chloride
Concen: 0.436 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion: 84 Resp: 1116
Ion Ratio Lower Upper
84 100
49 104.9 103.8 155.8
51 36.7 31.8 47.8
86 45.7 51.4 77.2#

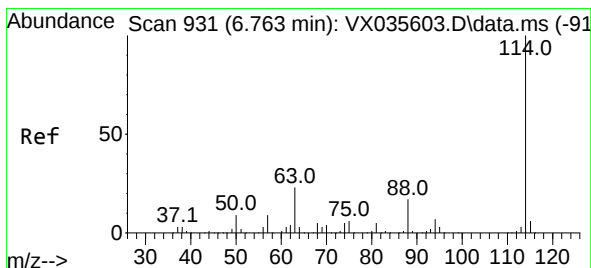
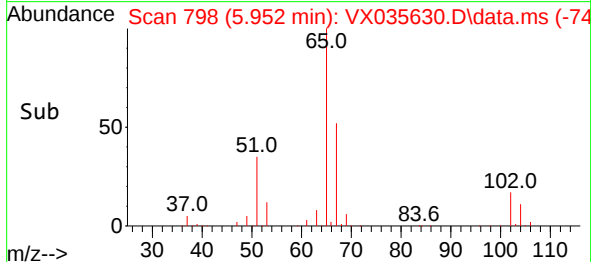
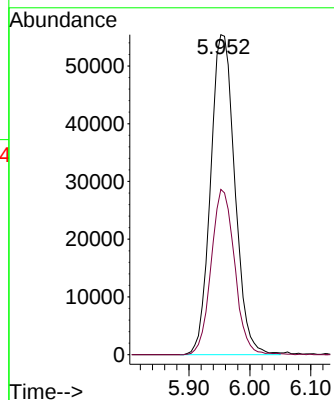
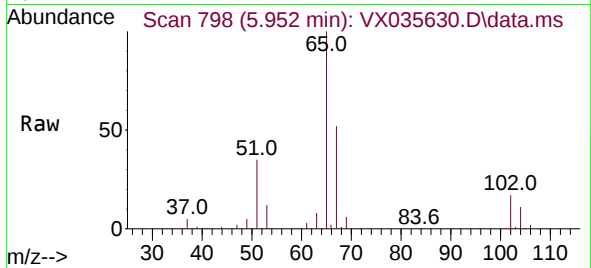




#33
 1,2-Dichloroethane-d4
 Concen: 46.693 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX035630.D
 Acq: 12 May 2023 12:11

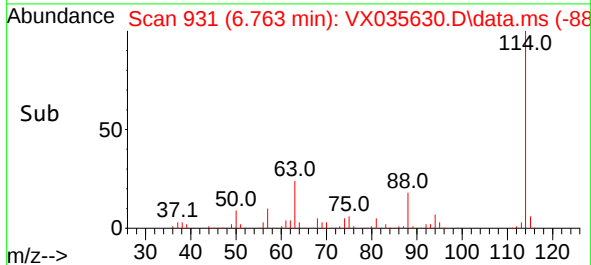
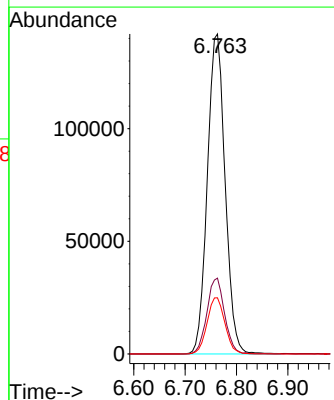
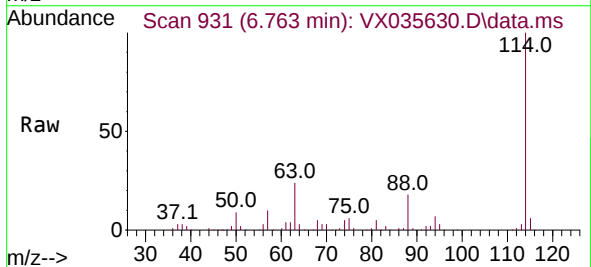
Instrument :
 MSVOA_X
 ClientSampleId :
 33998

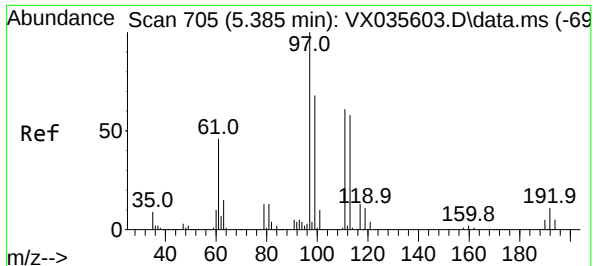
Tgt Ion: 65 Resp: 153288
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX035630.D
 Acq: 12 May 2023 12:11

Tgt Ion: 114 Resp: 340781
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 42.2
 88 17.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.773 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

Instrument :

MSVOA_X

ClientSampleId :

33998

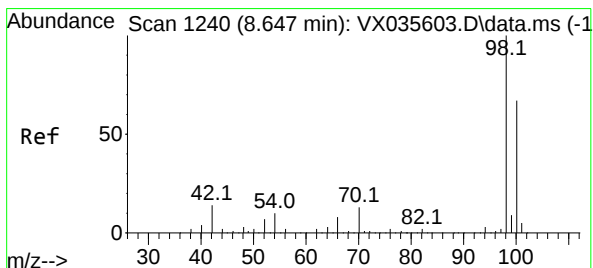
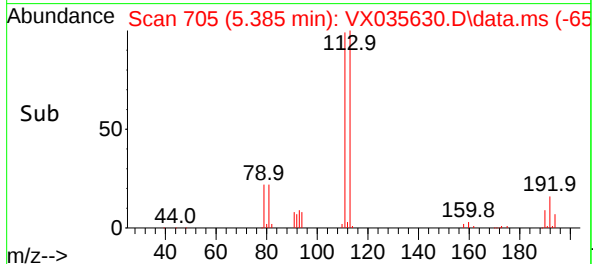
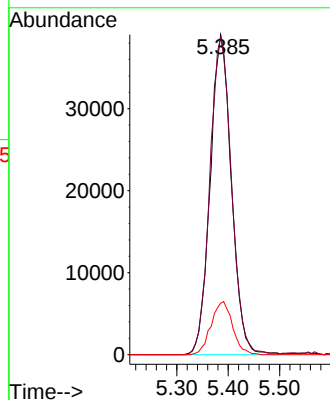
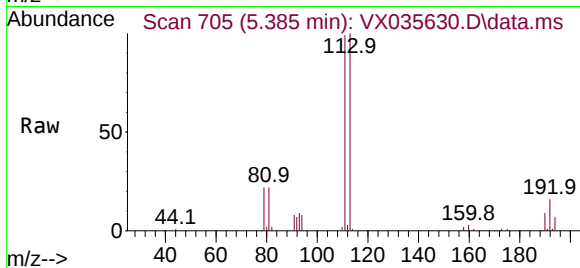
Tgt Ion:113 Resp: 112091

Ion Ratio Lower Upper

113 100

111 101.1 83.7 125.5

192 16.8 15.4 23.2



#50

Toluene-d8

Concen: 47.985 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX035630.D

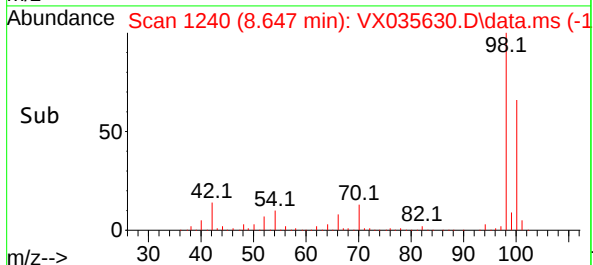
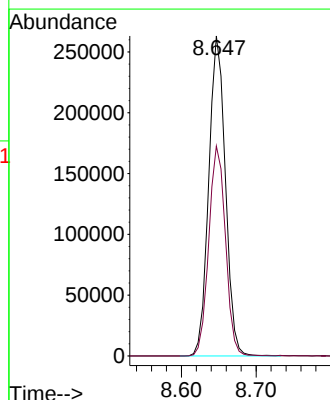
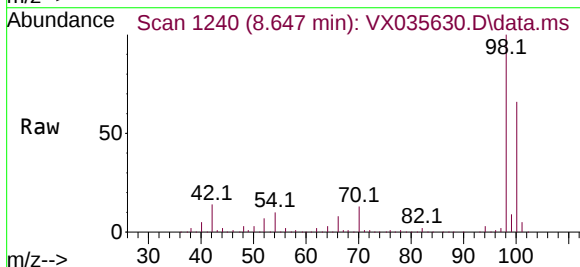
Acq: 12 May 2023 12:11

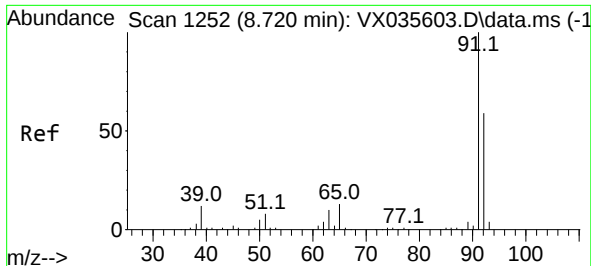
Tgt Ion: 98 Resp: 407402

Ion Ratio Lower Upper

98 100

100 65.7 52.5 78.7

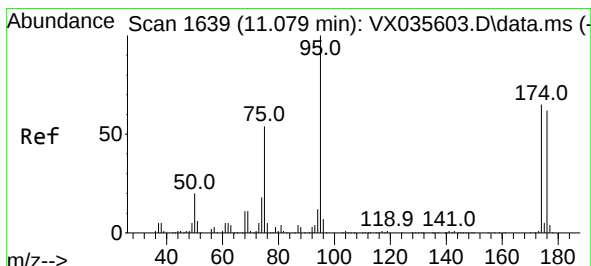
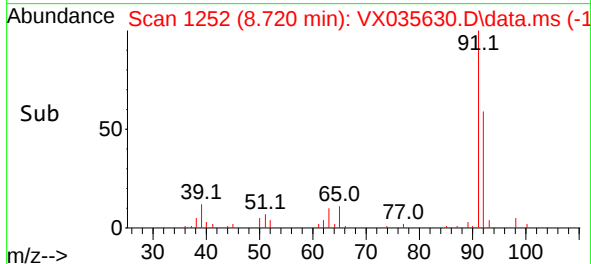
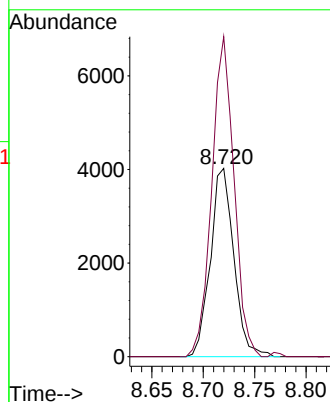
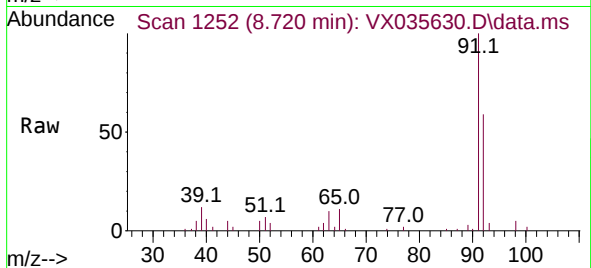




#52
Toluene
Concen: 0.998 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

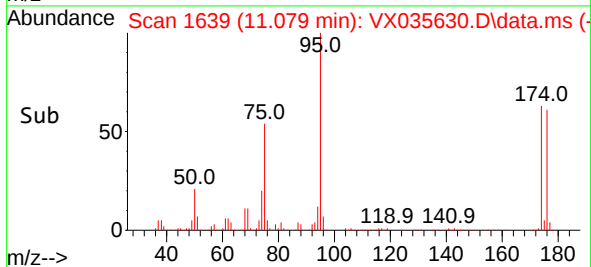
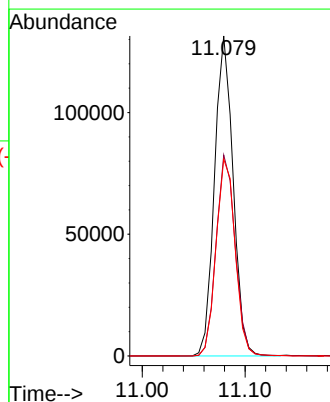
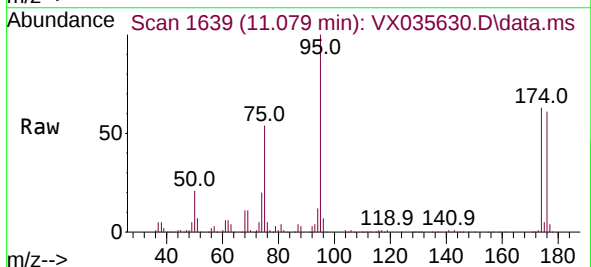
Instrument :
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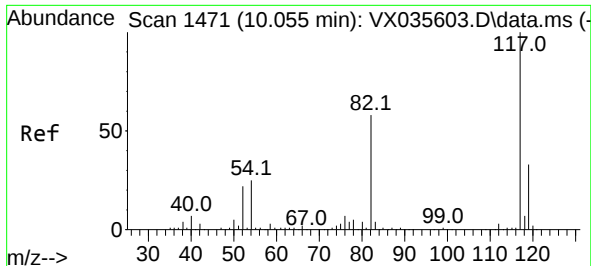
Tgt Ion: 92 Resp: 6391
Ion Ratio Lower Upper
92 100
91 160.8 136.8 205.2



#62
4-Bromofluorobenzene
Concen: 48.305 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion: 95 Resp: 165130
Ion Ratio Lower Upper
95 100
174 64.3 0.0 147.4
176 63.1 0.0 140.6

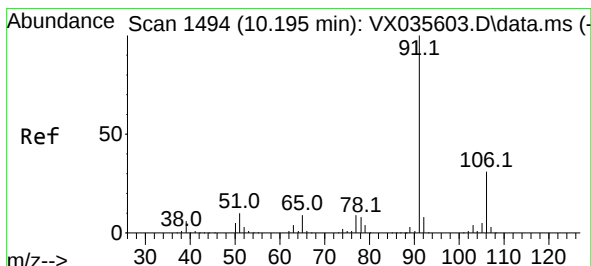
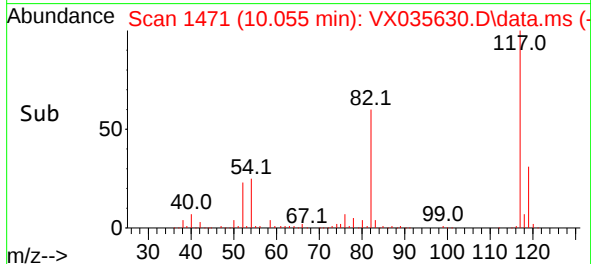
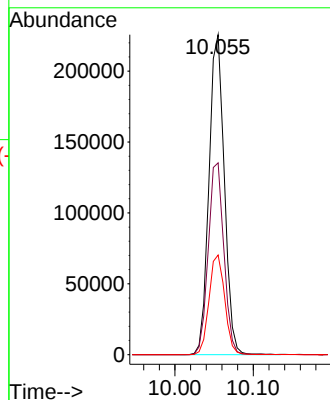
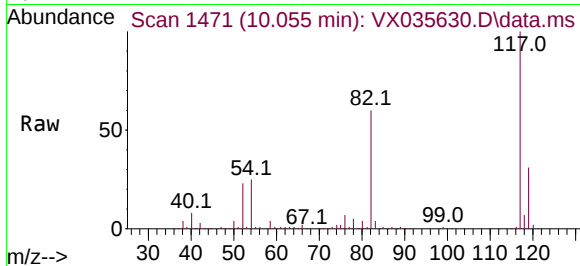




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

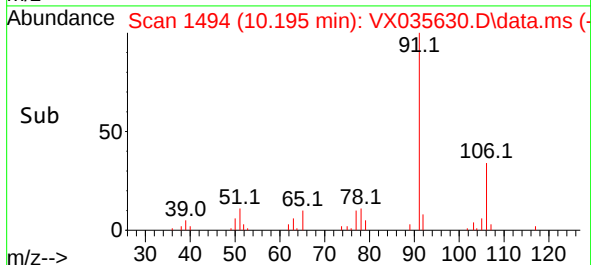
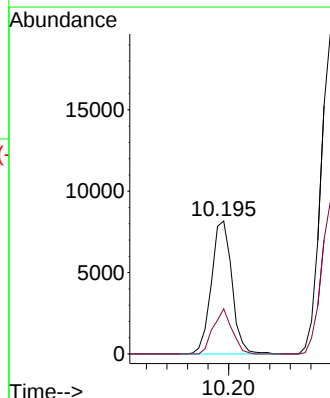
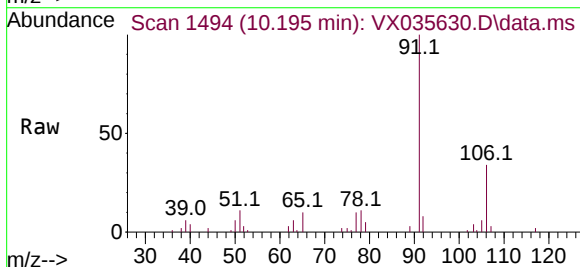
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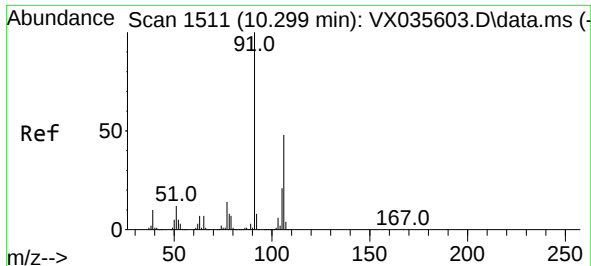
Tgt Ion:117 Resp: 306758
Ion Ratio Lower Upper
117 100
82 59.9 45.0 67.4
119 31.2 26.0 39.0



#67
Ethyl Benzene
Concen: 0.898 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion: 91 Resp: 11312
Ion Ratio Lower Upper
91 100
106 34.0 25.6 38.4

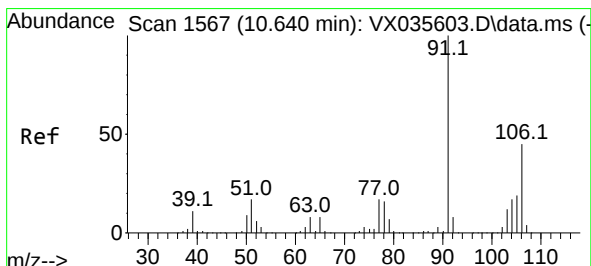
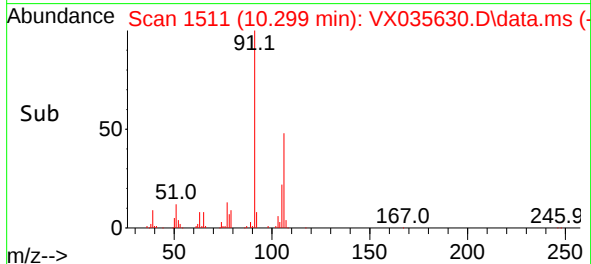
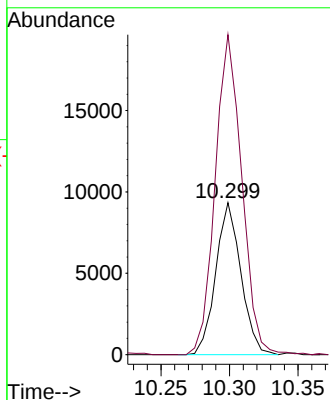
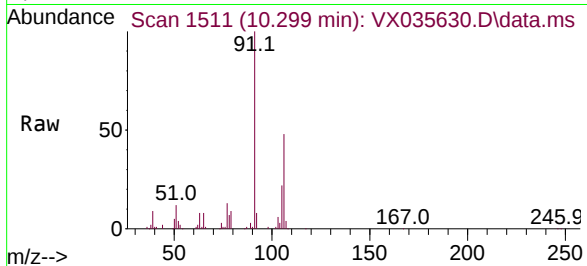




#68
m/p-Xylenes
Concen: 2.557 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

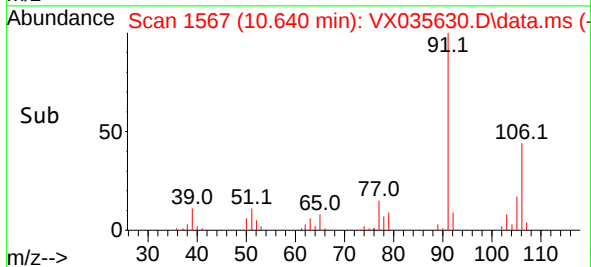
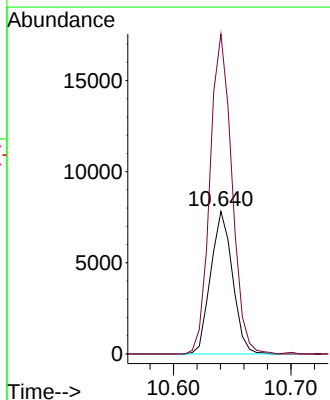
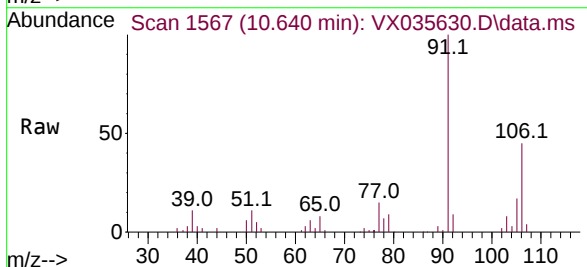
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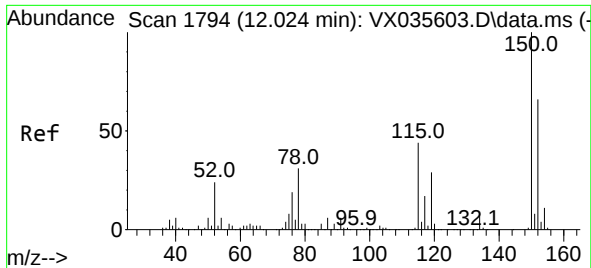
Tgt Ion:106 Resp: 11902
Ion Ratio Lower Upper
106 100
91 223.1 164.0 246.0



#69
o-Xylene
Concen: 2.189 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion:106 Resp: 10113
Ion Ratio Lower Upper
106 100
91 225.5 108.5 325.3

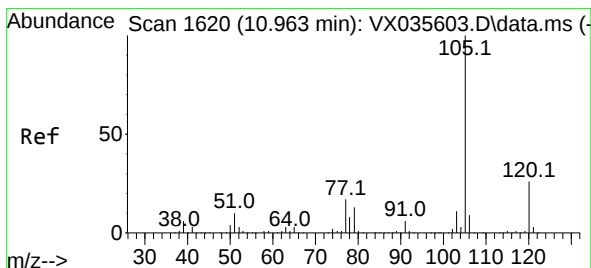
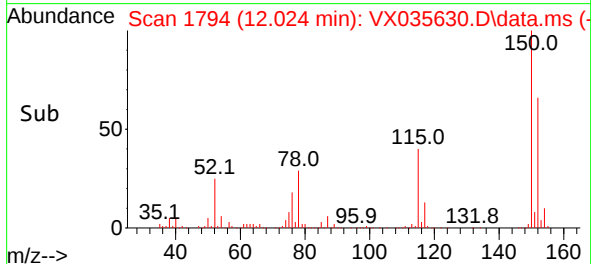
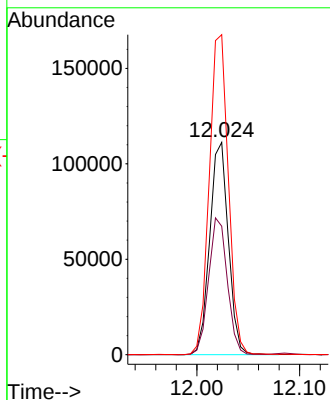
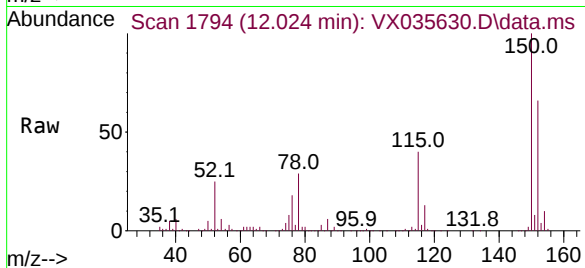




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

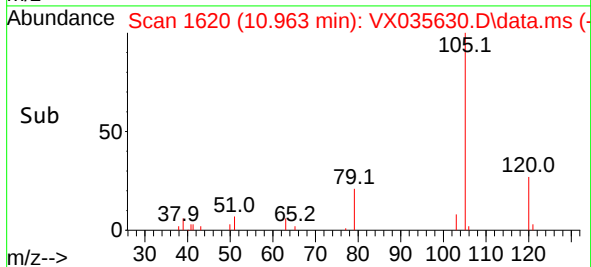
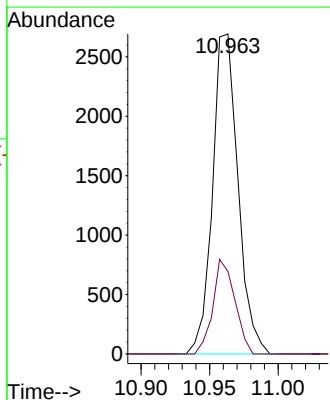
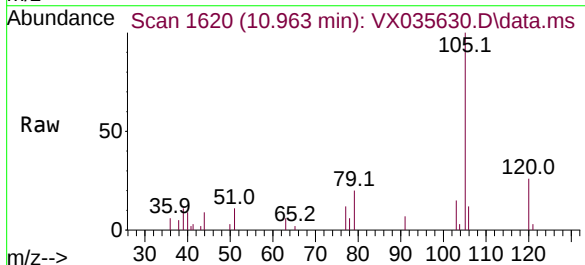
Instrument :
MSVOA_X
ClientSampleId :
33998

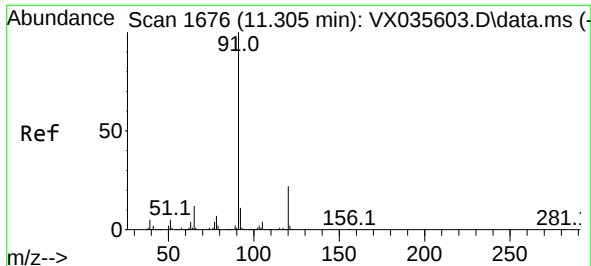
Tgt Ion:152 Resp: 139919
Ion Ratio Lower Upper
152 100
115 64.7 45.0 135.0
150 154.6 0.0 352.4



#73
Isopropylbenzene
Concen: 0.295 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion:105 Resp: 3484
Ion Ratio Lower Upper
105 100
120 25.4 13.3 39.9

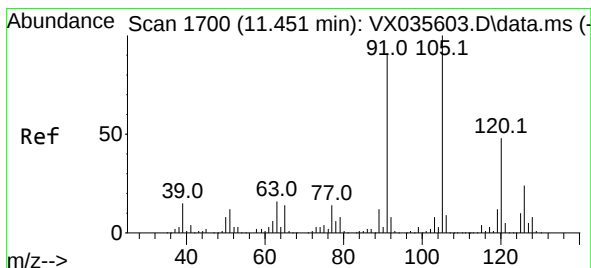
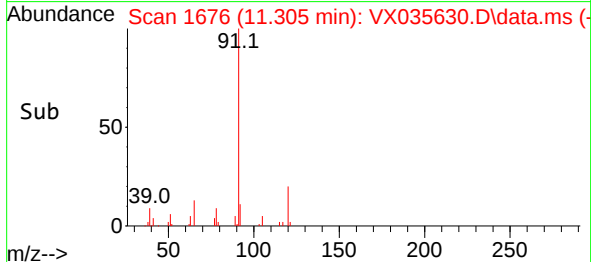
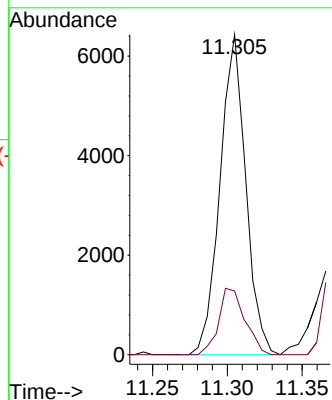
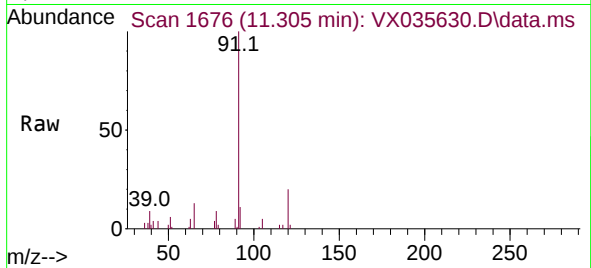




#78
n-propylbenzene
Concen: 0.556 ug/l
RT: 11.305 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

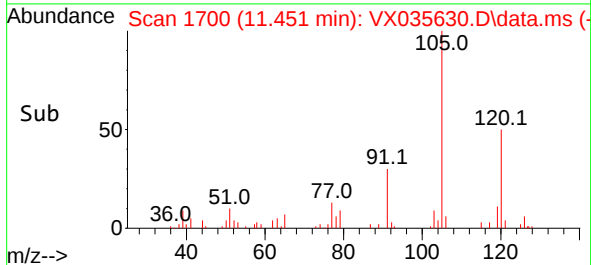
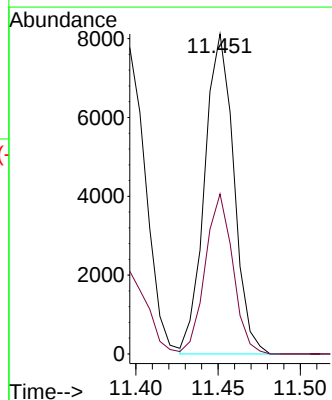
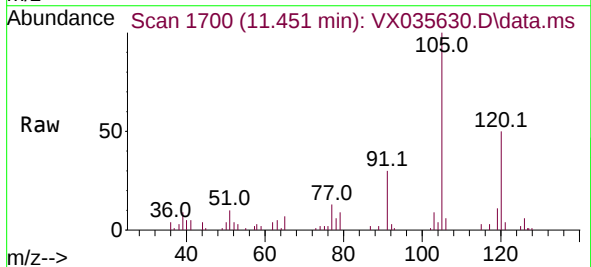
Instrument :
MSVOA_X
ClientSampleId :
33998

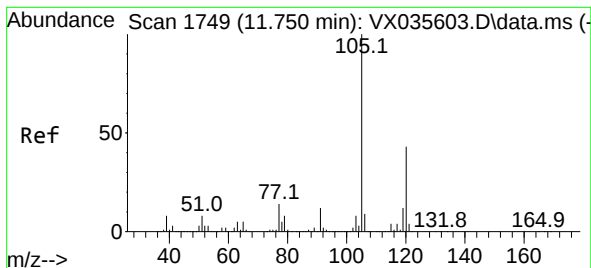
Tgt Ion: 91 Resp: 7699
Ion Ratio Lower Upper
91 100
120 21.2 11.5 34.5



#80
1,3,5-Trimethylbenzene
Concen: 0.999 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX035630.D
Acq: 12 May 2023 12:11

Tgt Ion: 105 Resp: 10011
Ion Ratio Lower Upper
105 100
120 47.2 23.7 71.1





#84

1,2,4-Trimethylbenzene

Concen: 3.289 ug/l

RT: 11.750 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

Instrument :

MSVOA_X

ClientSampleId :

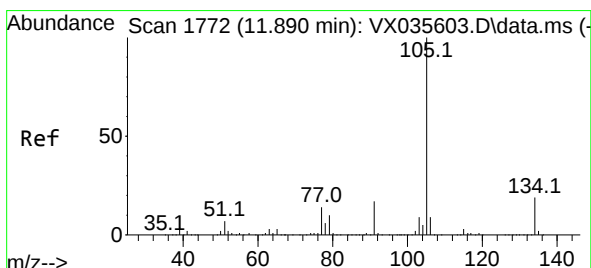
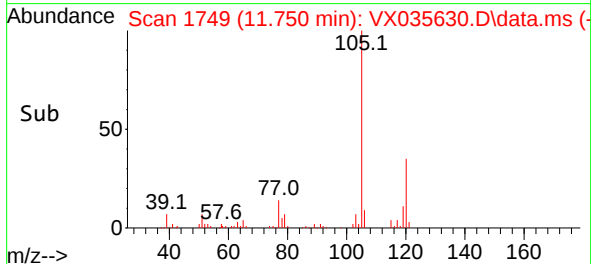
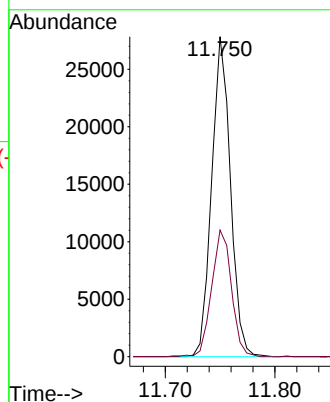
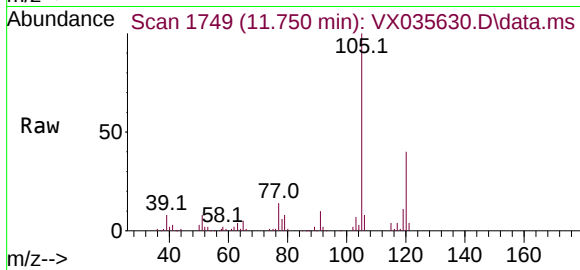
33998

Tgt Ion:105 Resp: 33097

Ion Ratio Lower Upper

105 100

120 41.9 22.4 67.0



#85

sec-Butylbenzene

Concen: 0.312 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX035630.D

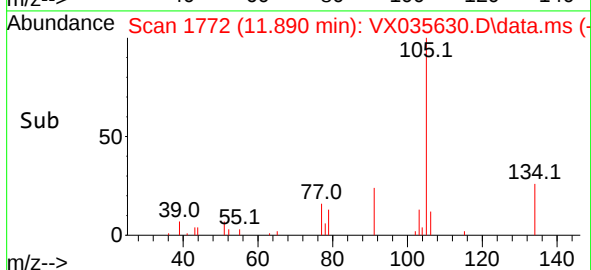
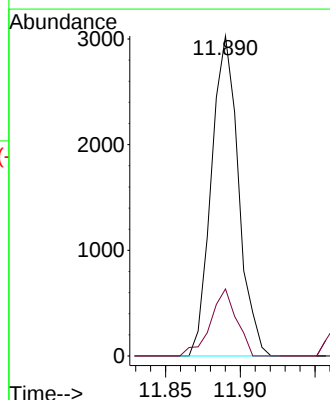
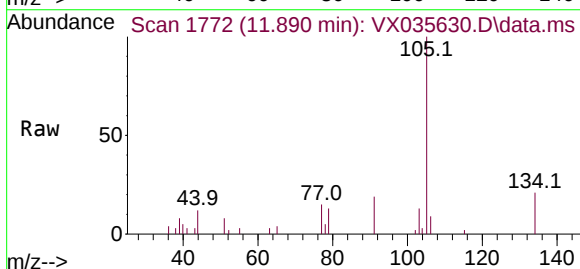
Acq: 12 May 2023 12:11

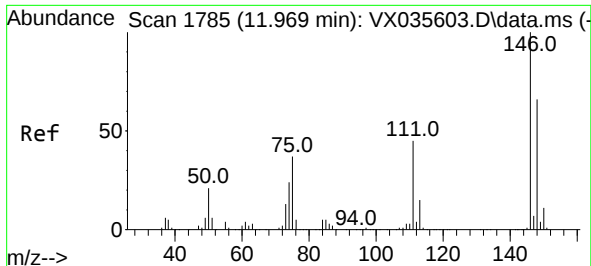
Tgt Ion:105 Resp: 3819

Ion Ratio Lower Upper

105 100

134 20.1 10.2 30.4





#87

1,3-Dichlorobenzene

Concen: 0.261 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

Instrument :

MSVOA_X

ClientSampleId :

33998

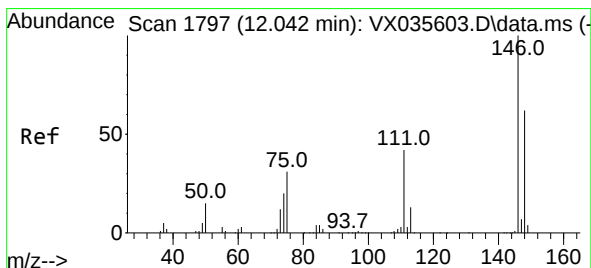
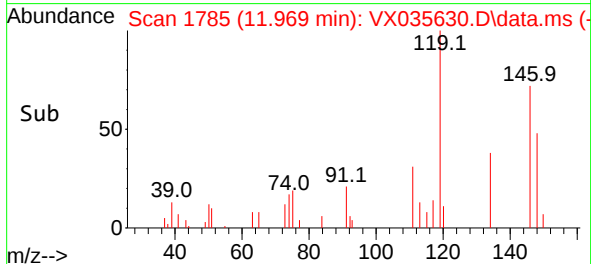
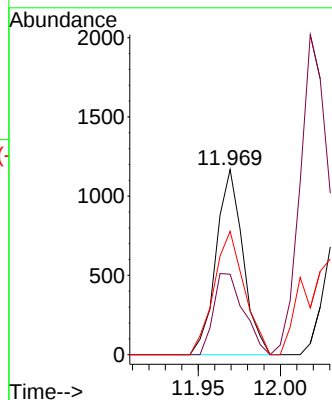
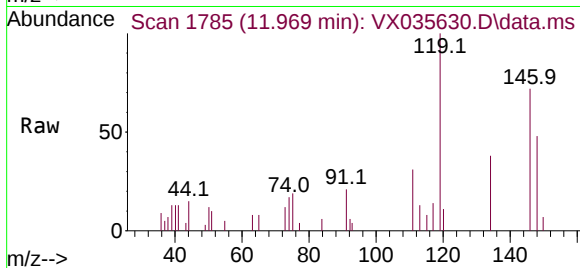
Tgt Ion:146 Resp: 1325

Ion Ratio Lower Upper

146 100

111 48.9 20.9 62.8

148 76.2 31.6 95.0



#88

1,4-Dichlorobenzene

Concen: 0.345 ug/l m

RT: 12.043 min Scan# 1797

Delta R.T. 0.001 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

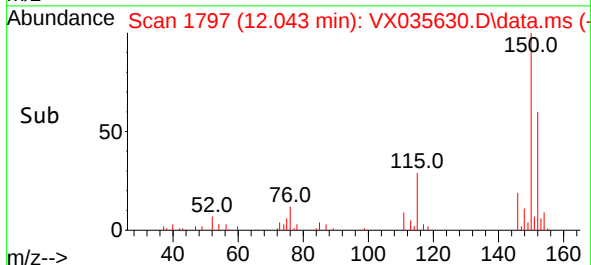
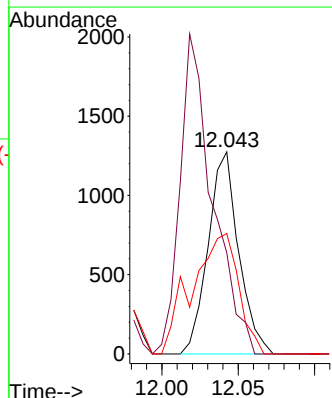
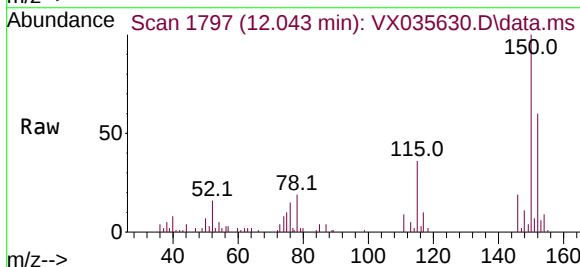
Tgt Ion:146 Resp: 1770

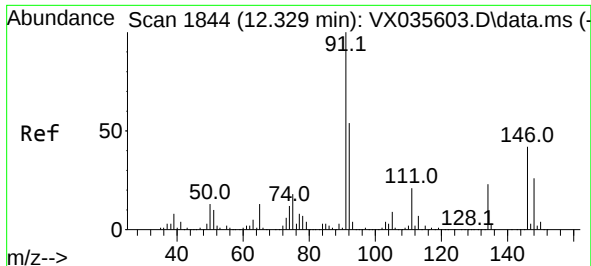
Ion Ratio Lower Upper

146 100

111 36.6 20.6 61.9

148 57.0 31.8 95.4





#89

n-Butylbenzene

Concen: 0.618 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

Instrument :

MSVOA_X

ClientSampleId :

33998

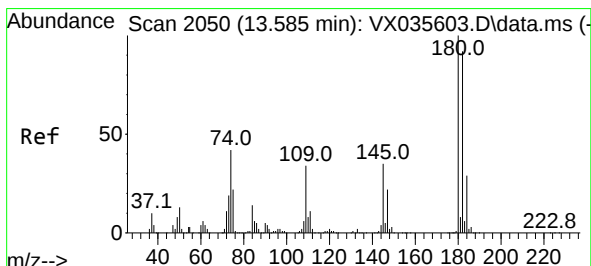
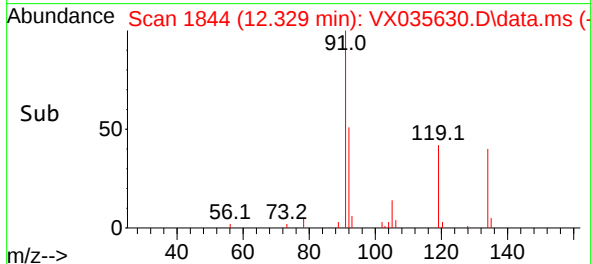
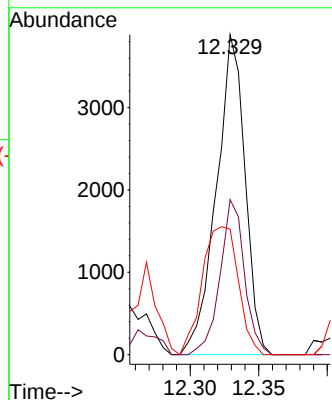
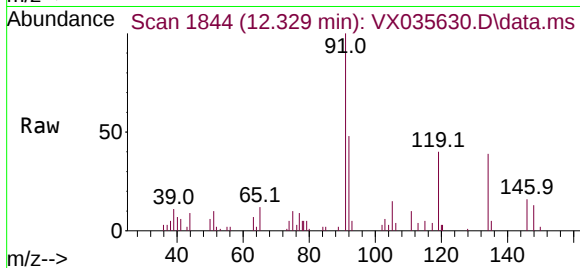
Tgt Ion: 91 Resp: 5652

Ion Ratio Lower Upper

91 100

92 41.3 27.7 83.0

134 50.3 13.0 38.9#



#93

1,2,4-Trichlorobenzene

Concen: 0.643 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

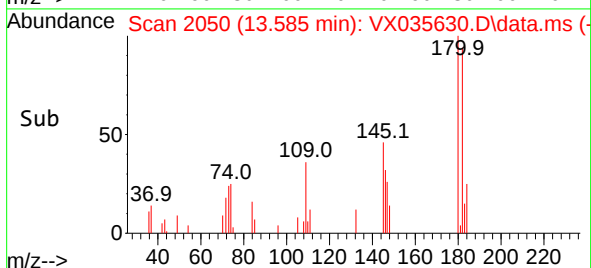
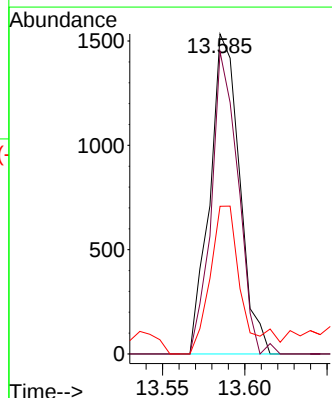
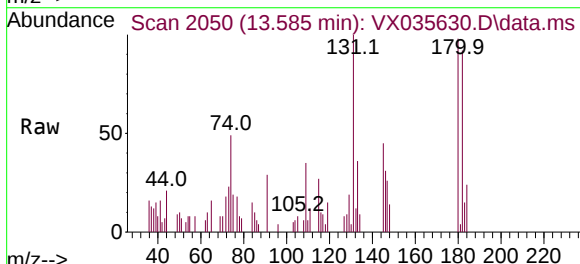
Tgt Ion: 180 Resp: 1928

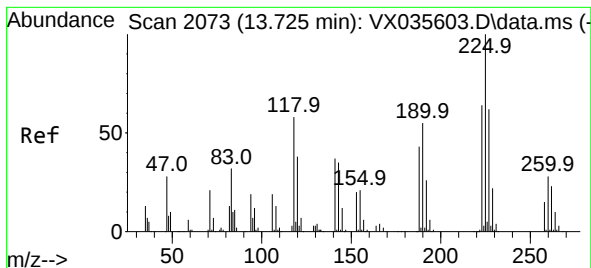
Ion Ratio Lower Upper

180 100

182 84.8 47.0 141.0

145 45.5 15.9 47.7





#94

Hexachlorobutadiene

Concen: 0.814 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

Instrument :

MSVOA_X

ClientSampleId :

33998

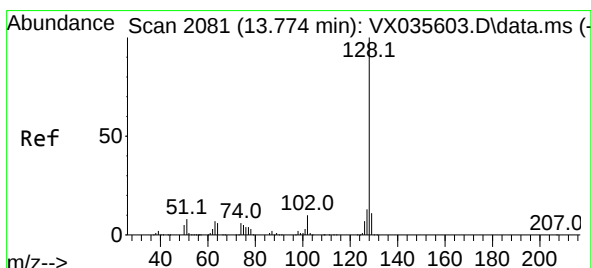
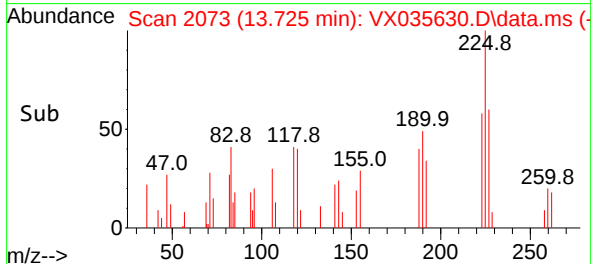
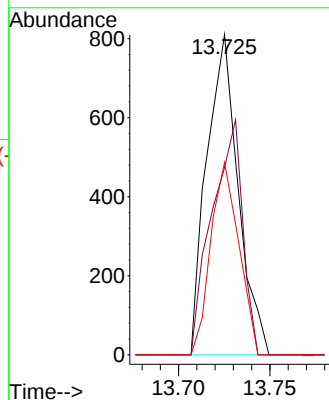
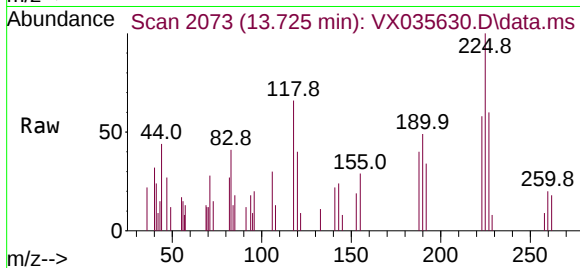
Tgt Ion:225 Resp: 969

Ion Ratio Lower Upper

225 100

223 71.3 32.1 96.5

227 53.8 31.8 95.4



#95

Naphthalene

Concen: 1.094 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX035630.D

Acq: 12 May 2023 12:11

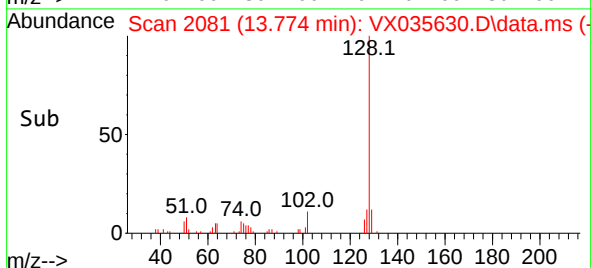
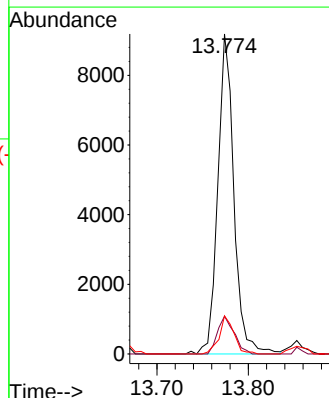
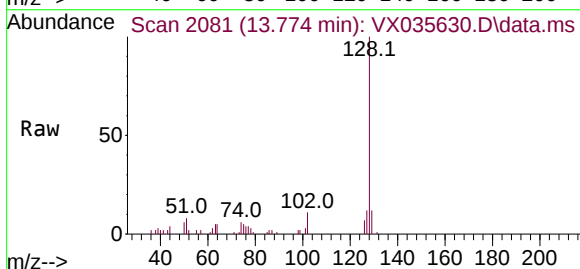
Tgt Ion:128 Resp: 11234

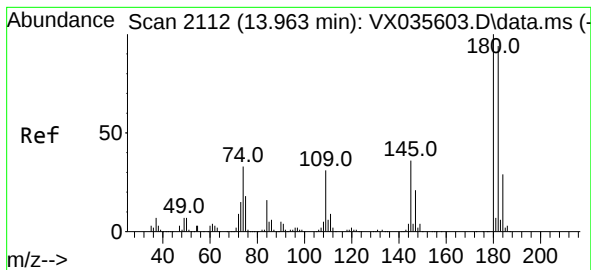
Ion Ratio Lower Upper

128 100

127 12.1 10.2 15.4

129 10.9 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.581 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. -0.000 min
 Lab File: VX035630.D
 Acq: 12 May 2023 12:11

Instrument :
 MSVOA_X
 ClientSampleId :
 33998

Tgt Ion:180 Resp: 1713
 Ion Ratio Lower Upper
 180 100
 182 89.6 48.0 144.2
 145 47.6 17.7 53.1

