

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030724\
 Data File : VX040605.D
 Acq On : 06 Mar 2024 15:08
 Operator : JC/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 07 01:38:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML030724WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 07 01:31:15 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	148852	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	142322	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	70141	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	70138	53.753	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.500%
7) Chloroethane-d5	1.666	69	54956	52.756	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.520%
11) 1,1-Dichloroethene-d2	2.307	65	27179	45.249	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.500%
21) 2-Butanone-d5	4.453	46	108552	108.413	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.410%
24) Chloroform-d	5.062	84	126311	52.127	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.260%
26) 1,2-Dichloroethane-d4	5.958	65	95025	52.526	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.060%
32) Benzene-d6	5.977	84	233071	53.378	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.760%
36) 1,2-Dichloropropane-d6	7.306	67	72137	53.306	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.620%
41) Toluene-d8	8.647	98	219043	52.055	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.100%
43) trans-1,3-Dichloroprop...	8.952	79	36741	51.012	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.020%
47) 2-Hexanone-d5	9.385	63	80436	107.723	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.720%
56) 1,1,2,2-Tetrachloroeth...	11.189	84	105047	51.846	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.700%
66) 1,2-Dichlorobenzene-d4	12.323	152	80286	54.651	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	1448	1.090	ug/L	97
5) Vinyl chloride	1.368	62	1268	1.015	ug/L #	1
9) Trichlorofluoromethane	1.886	101	1535	0.883	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.313	101	906	0.879	ug/L #	87
12) 1,1-Dichloroethene	2.313	96	1396	1.539	ug/L #	1
14) Carbon disulfide	2.508	76	6794	2.588	ug/L	98
17) trans-1,2-Dichloroethene	3.093	96	1309	1.405	ug/L	70
25) Chloroform	5.099	83	3182	1.558	ug/L	93
35) Methylcyclohexane	7.379	83	1798	1.090	ug/L #	66
44) trans-1,3-Dichloropropene	8.952	75	2196	1.323	ug/L	91
46) Tetrachloroethene	9.275	164	900	1.111	ug/L	83
51) Chlorobenzene	10.080	112	2200	0.810	ug/L #	91
52) Ethylbenzene	10.195	91	3863	0.784	ug/L	97
53) m,p-Xylene	10.305	106	1371	0.765	ug/L	83
54) o-Xylene	10.647	106	1164	0.677	ug/L	98
55) Styrene	10.659	104	2010	0.671	ug/L	97
60) Isopropylbenzene	10.964	105	3851	0.818	ug/L	98
62) 1,3,5-Trimethylbenzene	11.451	105	3565	0.913	ug/L	93
63) 1,2,4-Trimethylbenzene	11.451	105	3565	0.913	ug/L	97

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML030724WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 07 01:31:15 2024
Response via : Initial Calibration

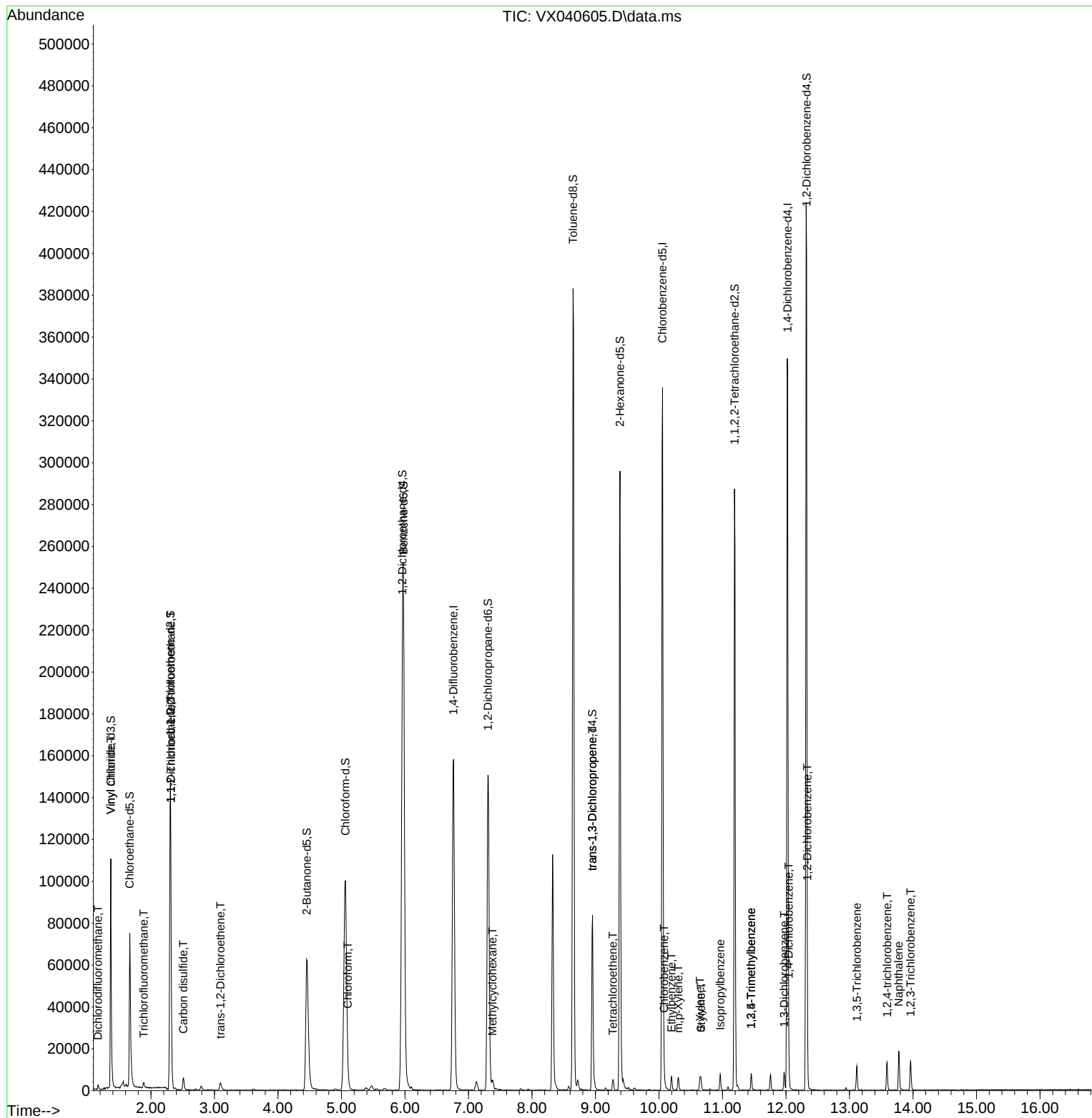
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.969	146	2581	1.252	ug/L	90
65) 1,4-Dichlorobenzene	12.043	146	3429	1.636	ug/L	89
67) 1,2-Dichlorobenzene	12.335	146	2183	1.114	ug/L	90
69) 1,3,5-Trichlorobenzene	13.116	180	3003	2.170	ug/L	96
70) 1,2,4-trichlorobenzene	13.591	180	3184	2.481	ug/L	96
71) Naphthalene	13.774	128	12169	2.983	ug/L	98
72) 1,2,3-Trichlorobenzene	13.963	180	3251	2.572	ug/L	96

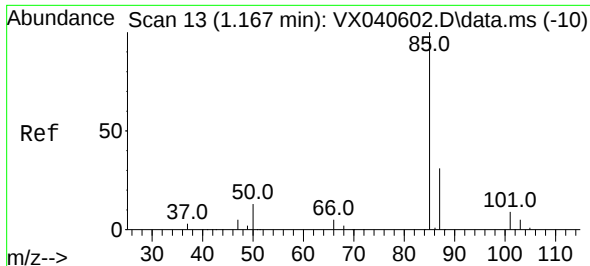
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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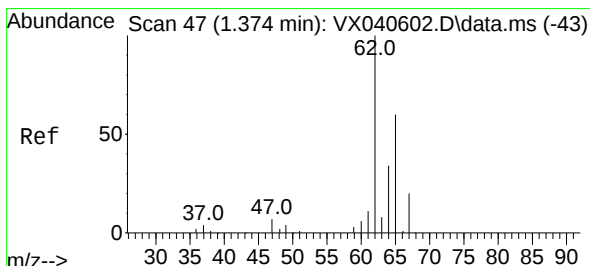
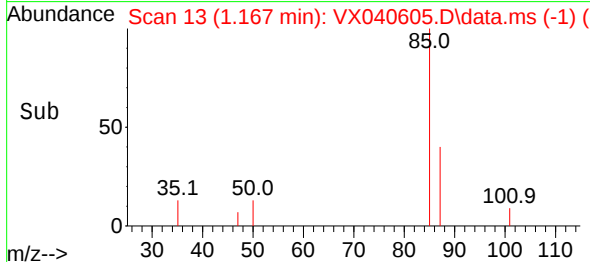
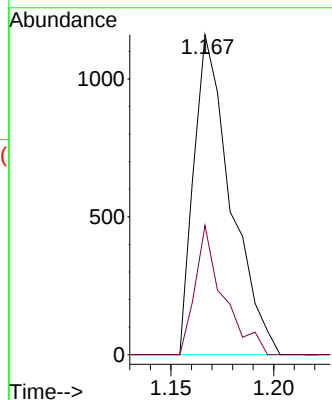
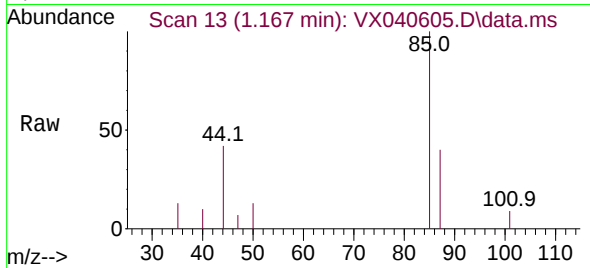




#2
Dichlorodifluoromethane
Concen: 1.090 ug/L
RT: 1.167 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

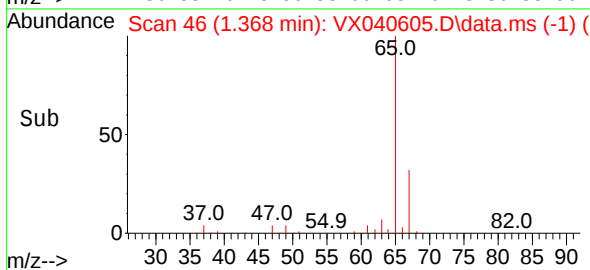
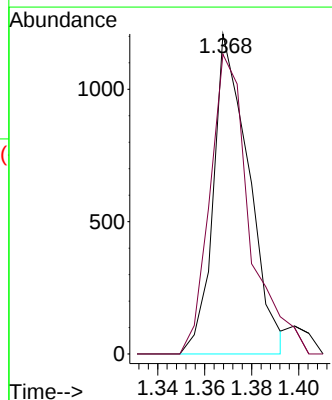
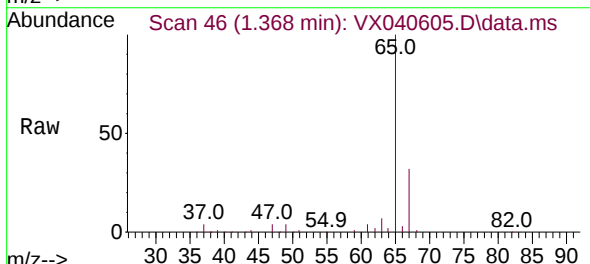
Instrument :
MSVOA_X
ClientSampleId :

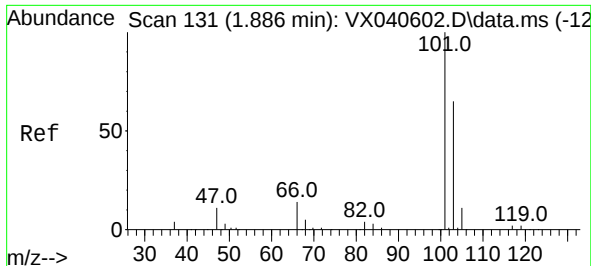
Tgt Ion: 85 Resp: 1448
Ion Ratio Lower Upper
85 100
87 30.8 26.1 39.1



#5
Vinyl chloride
Concen: 1.015 ug/L
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

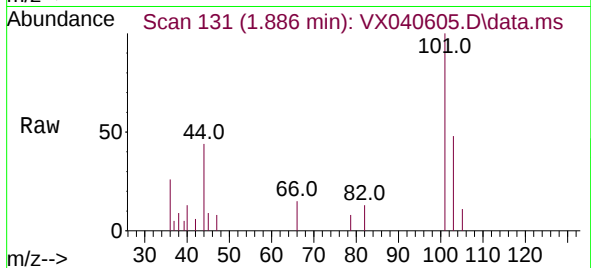
Tgt Ion: 62 Resp: 1268
Ion Ratio Lower Upper
62 100
64 93.6 23.8 44.2#



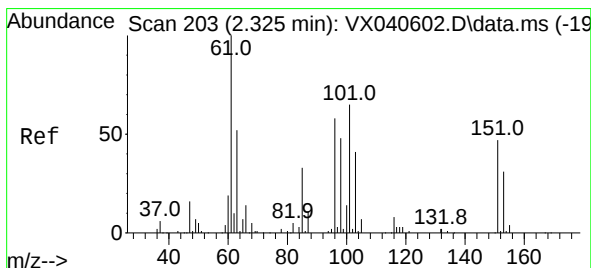
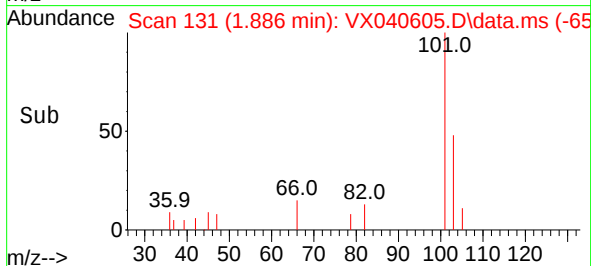
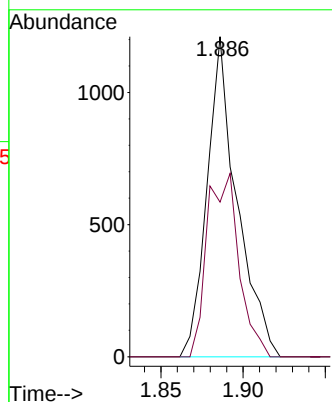


#9
 Trichlorofluoromethane
 Concen: 0.883 ug/L
 RT: 1.886 min Scan# 14
 Delta R.T. 0.000 min
 Lab File: VX040605.D
 Acq: 06 Mar 2024 15:08

Instrument :
 MSVOA_X
 ClientSampleId :

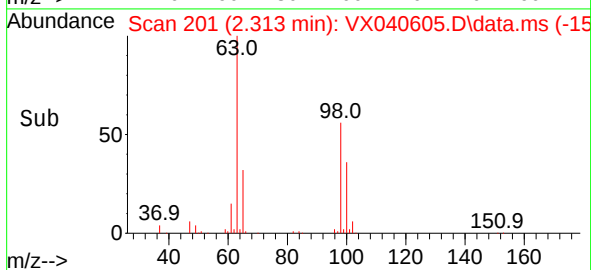
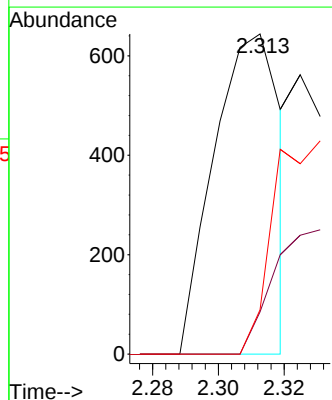
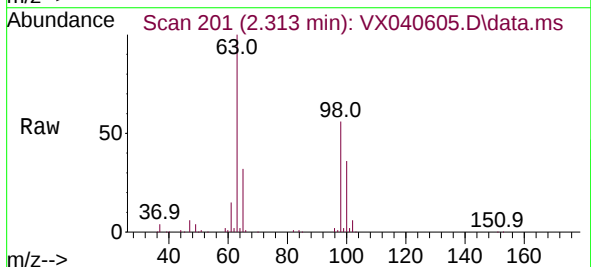


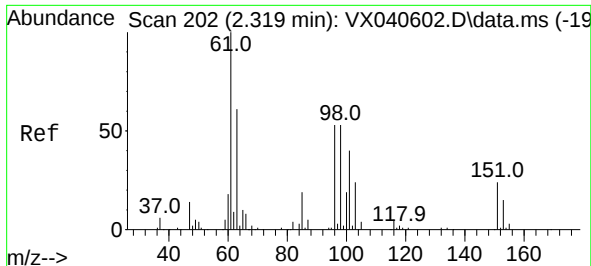
Tgt Ion:101 Resp: 1535
 Ion Ratio Lower Upper
 101 100
 103 61.0 51.7 77.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.879 ug/L
 RT: 2.313 min Scan# 201
 Delta R.T. -0.012 min
 Lab File: VX040605.D
 Acq: 06 Mar 2024 15:08

Tgt Ion:101 Resp: 906
 Ion Ratio Lower Upper
 101 100
 85 46.0 38.3 57.5
 151 88.6 57.7 86.5#

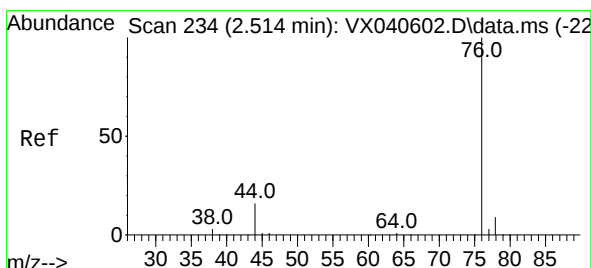
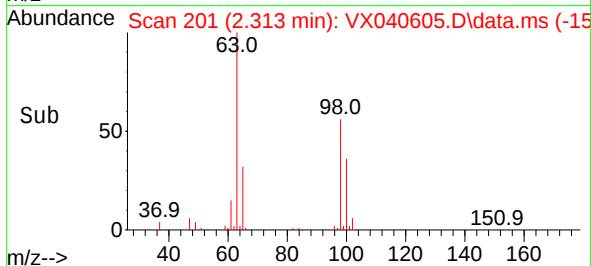
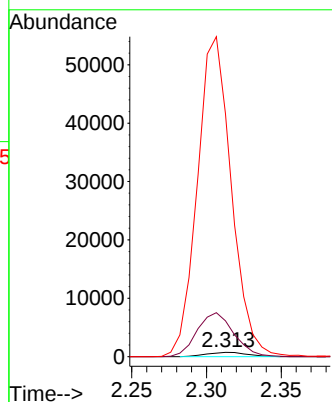
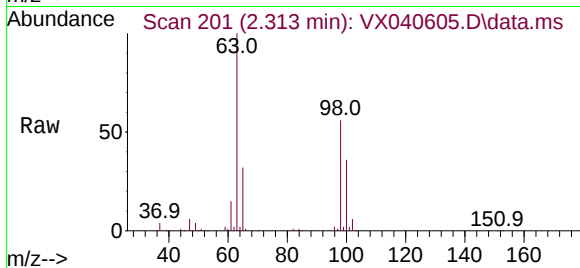




#12
1,1-Dichloroethene
Concen: 1.539 ug/L
RT: 2.313 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

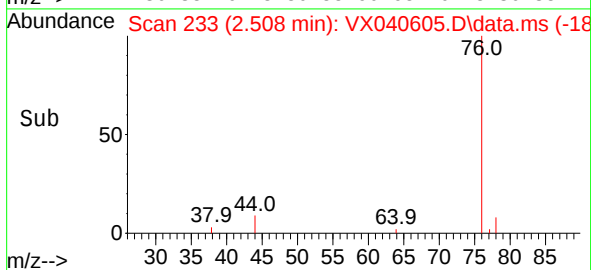
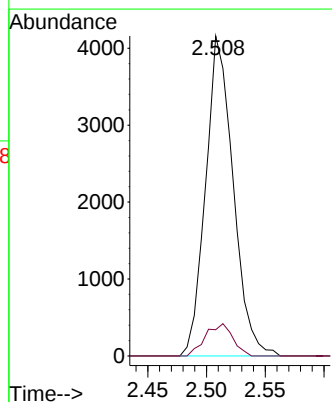
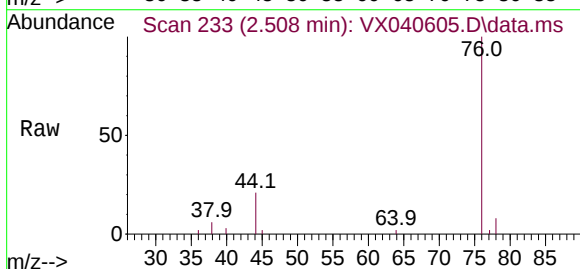
Instrument :
MSVOA_X
ClientSampleId :

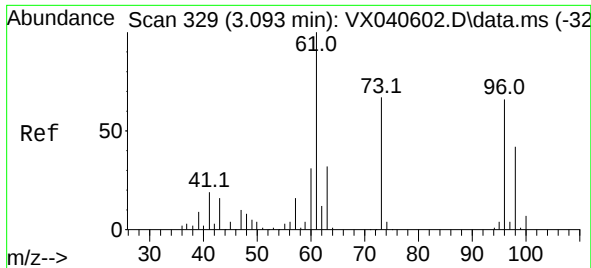
Tgt Ion: 96 Resp: 1396
Ion Ratio Lower Upper
96 100
61 824.3 134.8 250.4#
63 5583.9 92.5 171.9#



#14
Carbon disulfide
Concen: 2.588 ug/L
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

Tgt Ion: 76 Resp: 6794
Ion Ratio Lower Upper
76 100
78 8.2 7.2 10.8

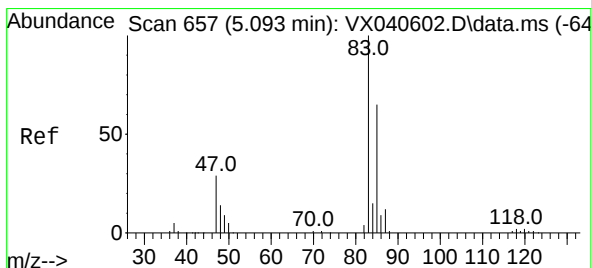
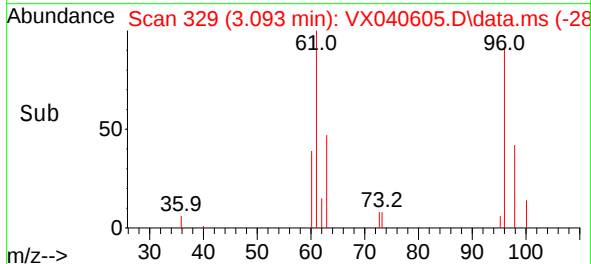
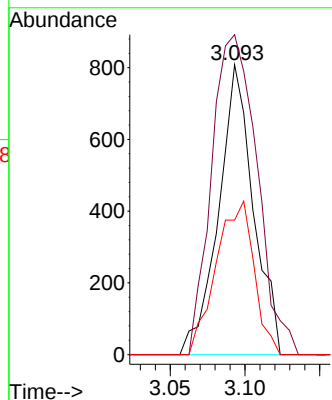
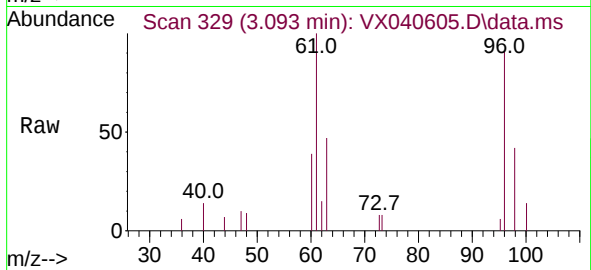




#17
trans-1,2-Dichloroethene
Concen: 1.405 ug/L
RT: 3.093 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

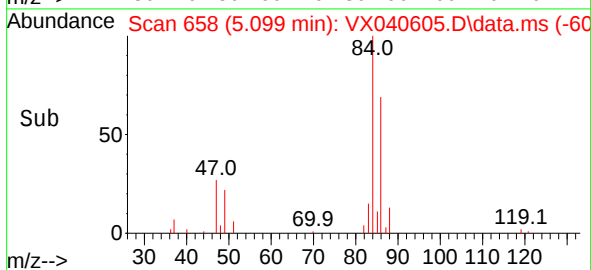
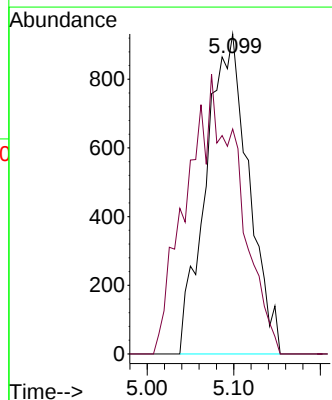
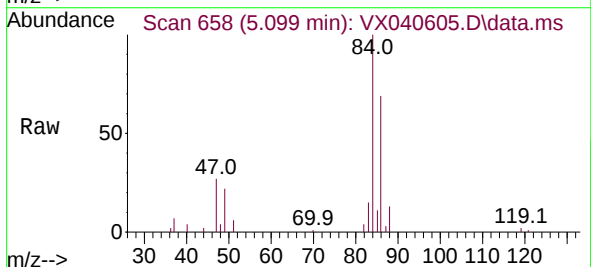
Instrument :
MSVOA_X
ClientSampleId :

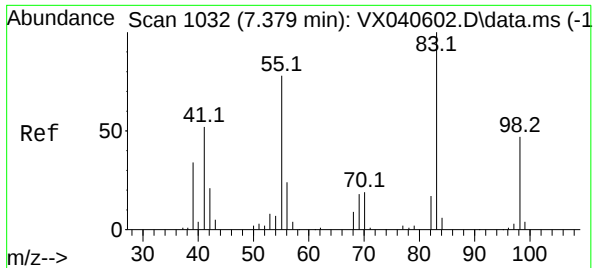
Tgt Ion: 96 Resp: 1309
Ion Ratio Lower Upper
96 100
61 110.4 106.6 198.0
98 46.4 45.1 83.9



#25
Chloroform
Concen: 1.558 ug/L
RT: 5.099 min Scan# 658
Delta R.T. 0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

Tgt Ion: 83 Resp: 3182
Ion Ratio Lower Upper
83 100
85 70.3 45.4 84.4





#35

Methylcyclohexane

Concen: 1.090 ug/L

RT: 7.379 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

ClientSampleId :

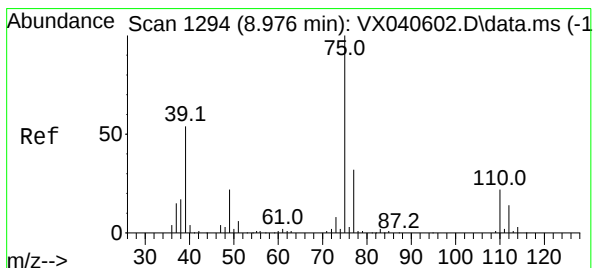
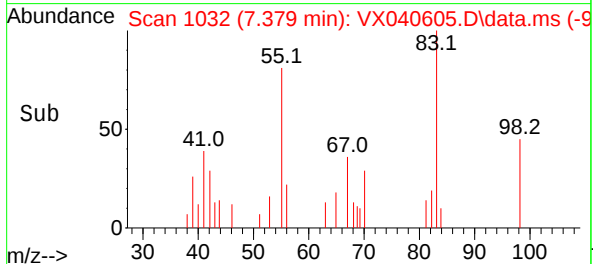
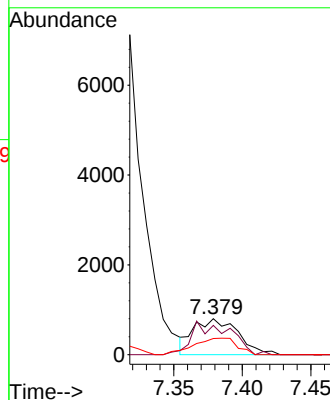
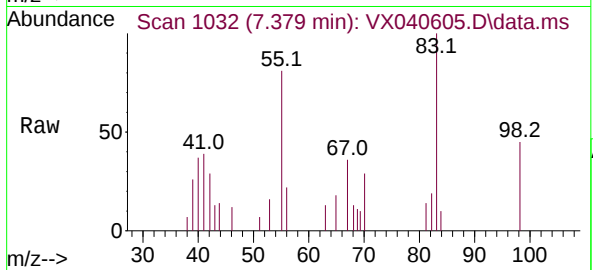
Tgt Ion: 83 Resp: 1798

Ion Ratio Lower Upper

83 100

55 32.3 62.6 94.0#

98 44.9 37.4 56.2



#44

trans-1,3-Dichloropropene

Concen: 1.323 ug/L

RT: 8.952 min Scan# 1290

Delta R.T. -0.024 min

Lab File: VX040605.D

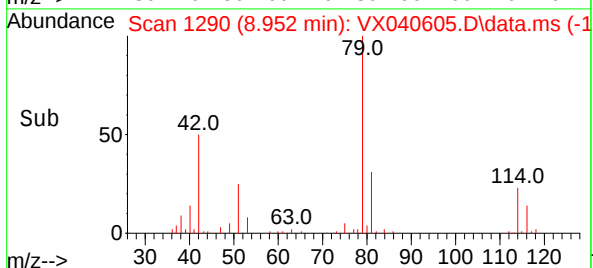
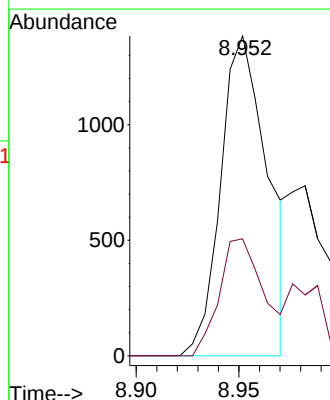
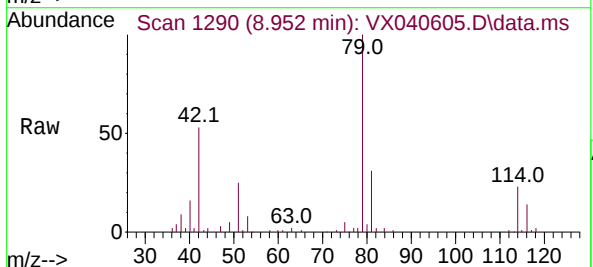
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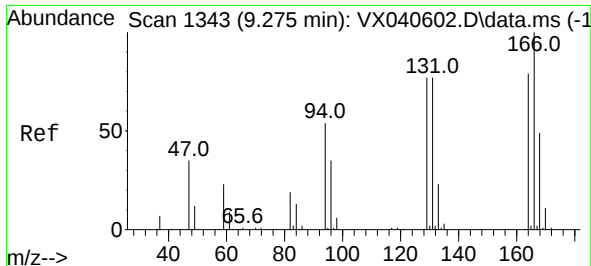
Tgt Ion: 75 Resp: 2196

Ion Ratio Lower Upper

75 100

77 36.6 22.1 41.1





#46

Tetrachloroethene

Concen: 1.111 ug/L

RT: 9.275 min Scan# 14

Delta R.T. 0.000 min

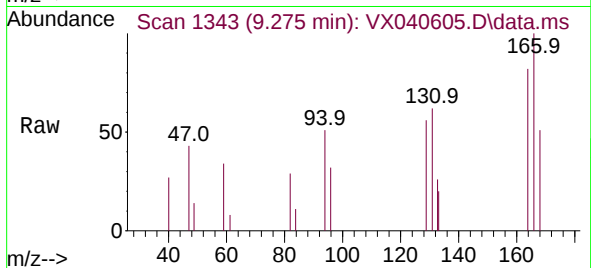
Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:164 Resp: 900

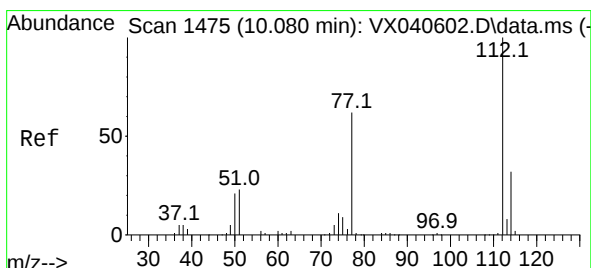
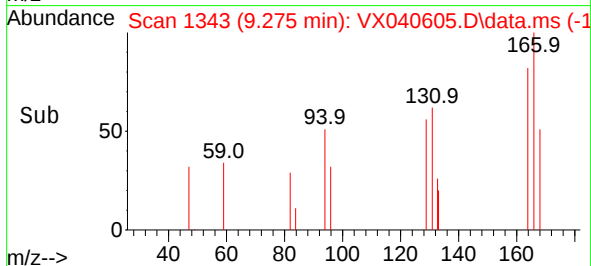
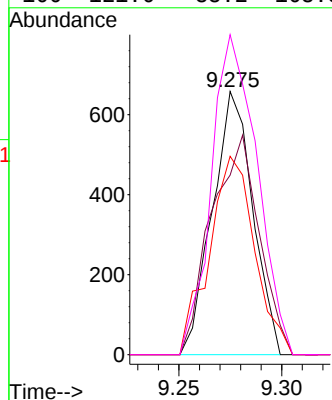
Ion Ratio Lower Upper

164 100

129 68.2 67.8 126.0

131 75.4 67.8 126.0

166 121.6 88.2 163.8



#51

Chlorobenzene

Concen: 0.810 ug/L

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

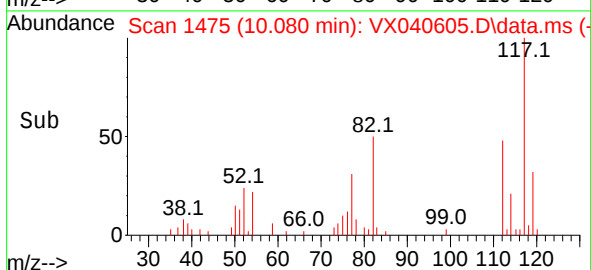
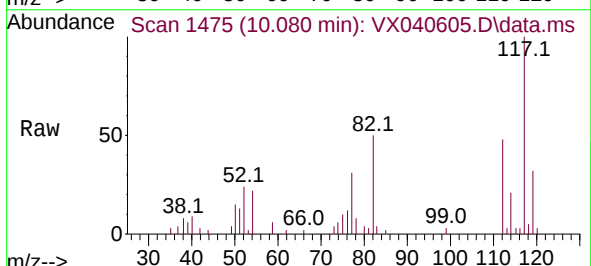
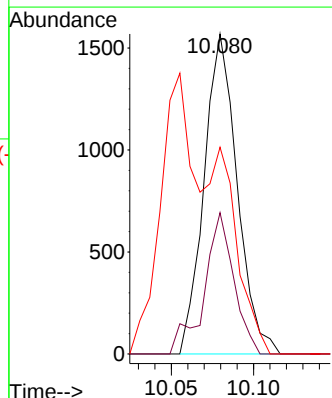
Tgt Ion:112 Resp: 2200

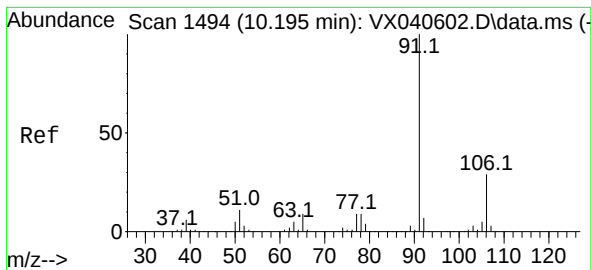
Ion Ratio Lower Upper

112 100

114 44.2 22.4 41.6#

77 64.6 50.6 75.8

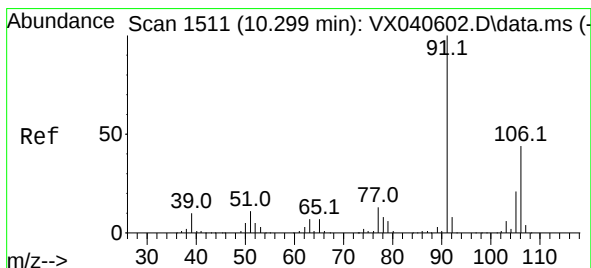
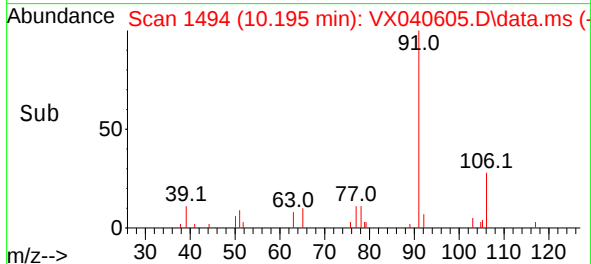
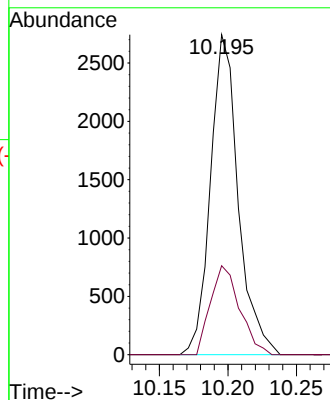
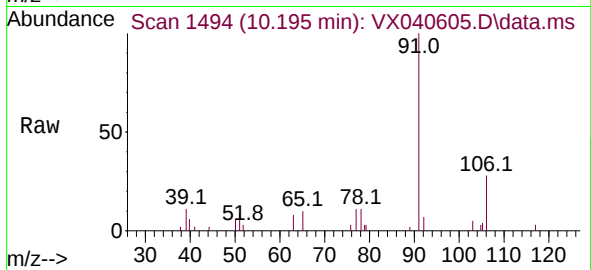




#52
Ethylbenzene
Concen: 0.784 ug/L
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

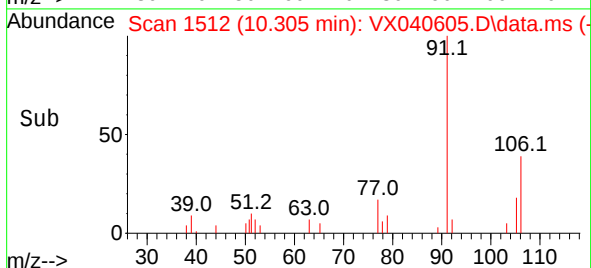
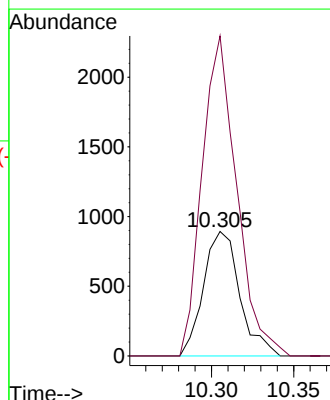
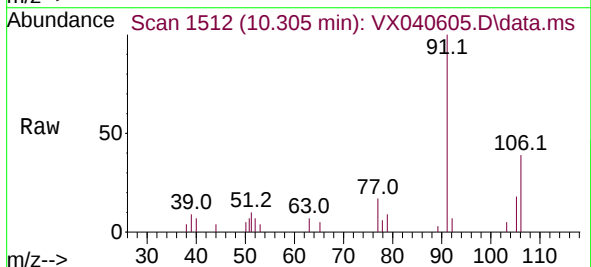
Instrument :
MSVOA_X
ClientSampleId :

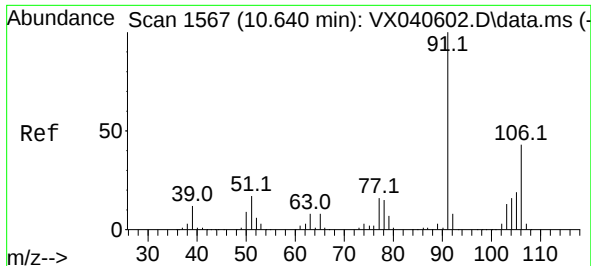
Tgt Ion: 91 Resp: 3863
Ion Ratio Lower Upper
91 100
106 27.8 20.6 38.4



#53
m,p-Xylene
Concen: 0.765 ug/L
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

Tgt Ion: 106 Resp: 1371
Ion Ratio Lower Upper
106 100
91 257.1 160.4 298.0

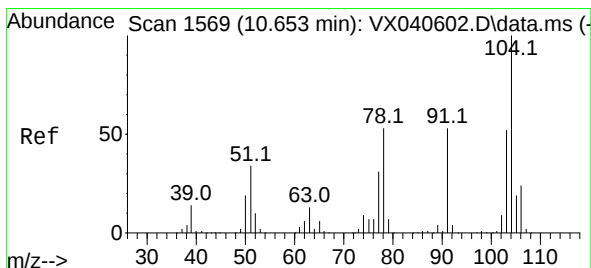
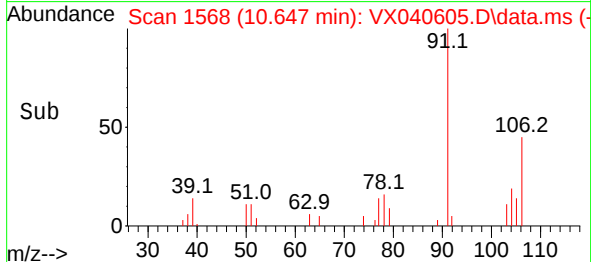
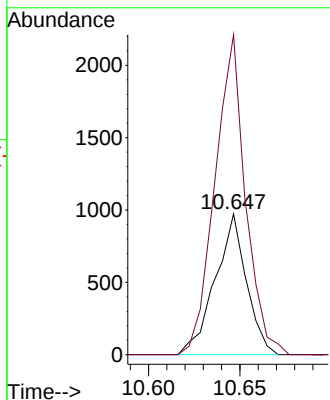
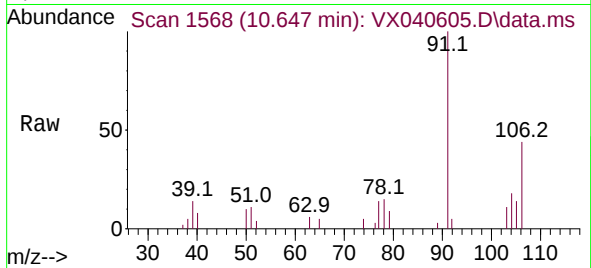




#54
o-Xylene
Concen: 0.677 ug/L
RT: 10.647 min Scan# 1567
Delta R.T. 0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

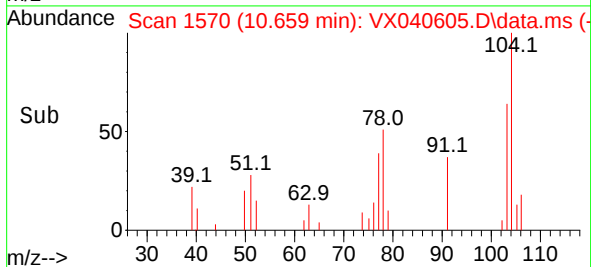
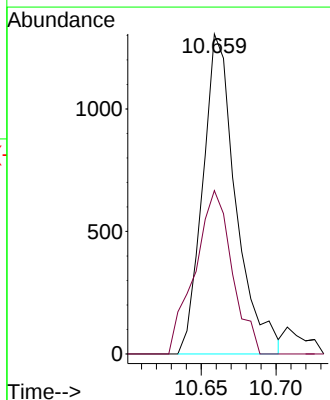
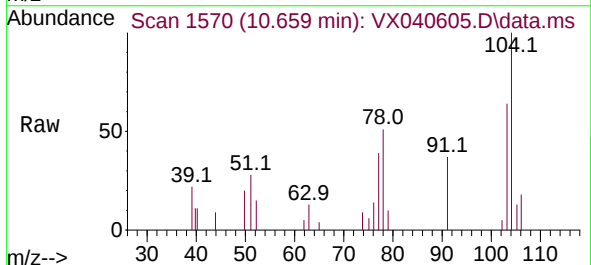
Instrument :
MSVOA_X
ClientSampleId :

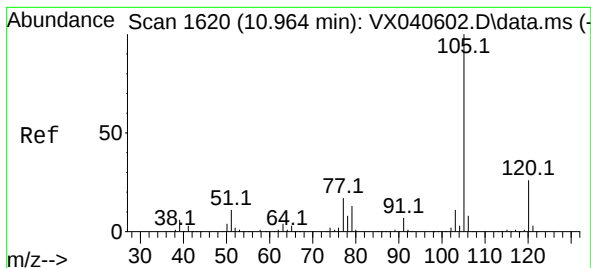
Tgt Ion:106 Resp: 1164
Ion Ratio Lower Upper
106 100
91 227.1 161.7 300.3



#55
Styrene
Concen: 0.671 ug/L
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX040605.D
Acq: 06 Mar 2024 15:08

Tgt Ion:104 Resp: 2010
Ion Ratio Lower Upper
104 100
78 51.1 37.2 69.0





#60

Isopropylbenzene

Concen: 0.818 ug/L

RT: 10.964 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX040605.D

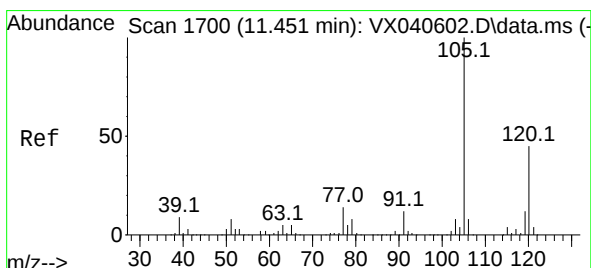
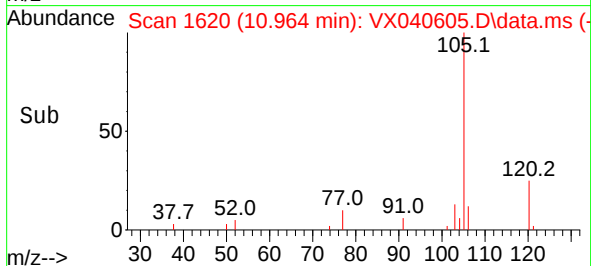
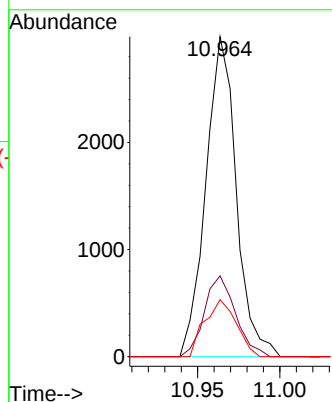
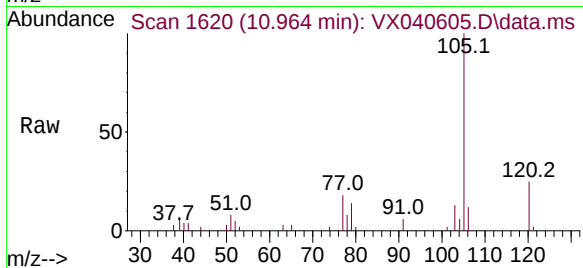
Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:105	Resp:	3851
Ion Ratio	Lower	Upper
105	100	
120	25.8	20.1 30.1
77	18.5	13.9 20.9



#62

1,3,5-Trimethylbenzene

Concen: 0.913 ug/L

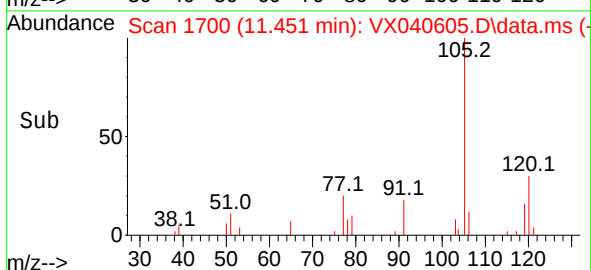
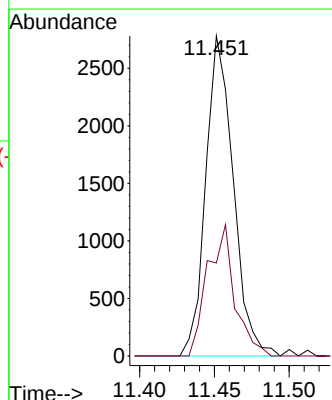
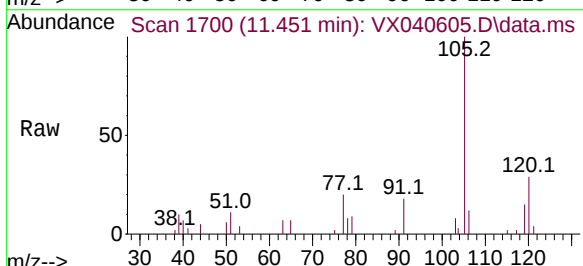
RT: 11.451 min Scan# 1700

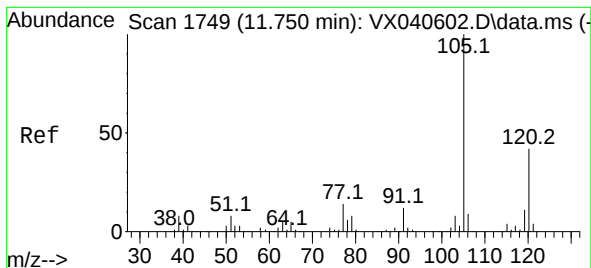
Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Tgt Ion:105	Resp:	3565
Ion Ratio	Lower	Upper
105	100	
120	40.4	36.2 54.2





#63

1,2,4-Trimethylbenzene

Concen: 0.913 ug/L

RT: 11.451 min Scan# 1749

Delta R.T. -0.299 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

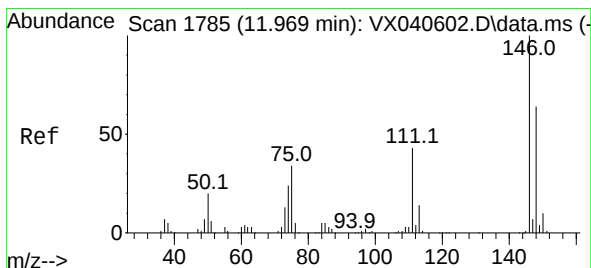
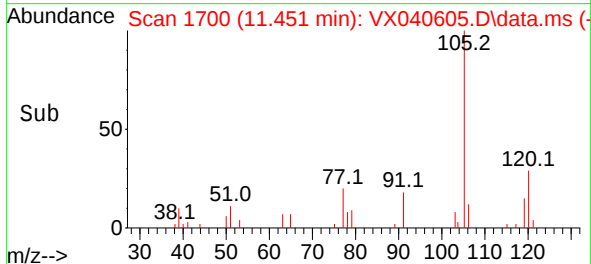
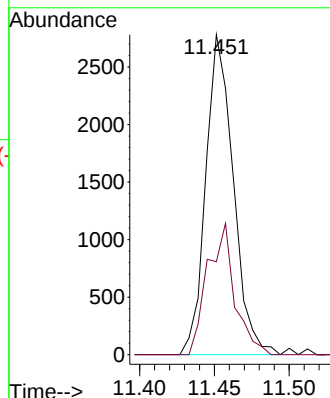
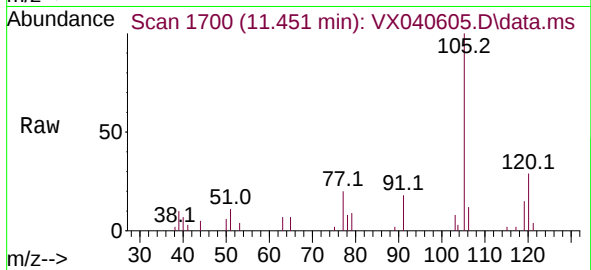
ClientSampleId :

Tgt Ion:105 Resp: 3565

Ion Ratio Lower Upper

105 100

120 40.4 33.9 50.9



#64

1,3-Dichlorobenzene

Concen: 1.252 ug/L

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

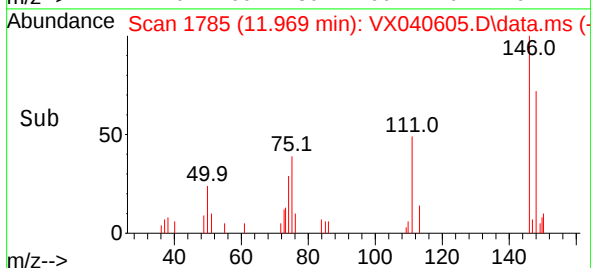
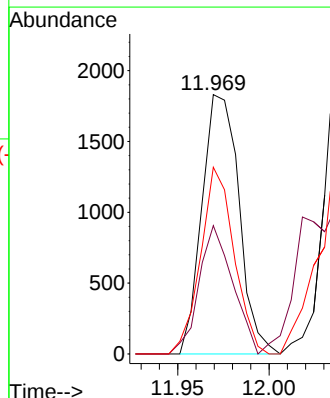
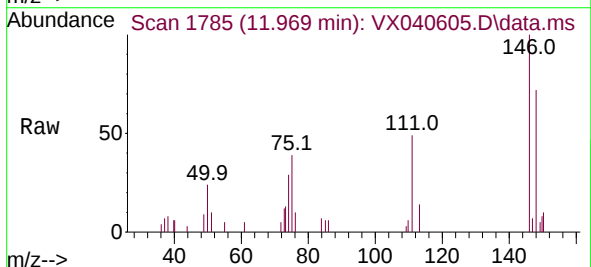
Tgt Ion:146 Resp: 2581

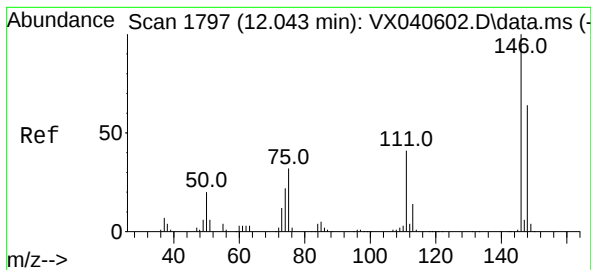
Ion Ratio Lower Upper

146 100

111 49.5 30.0 55.6

148 72.0 44.8 83.2





#65

1,4-Dichlorobenzene

Concen: 1.636 ug/L

RT: 12.043 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

ClientSampleId :

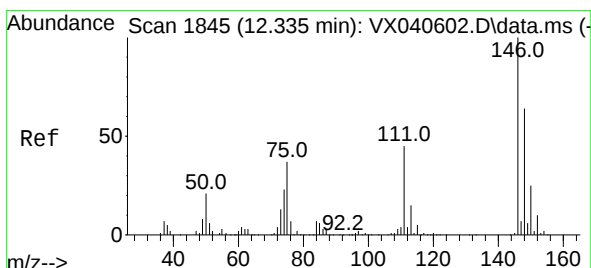
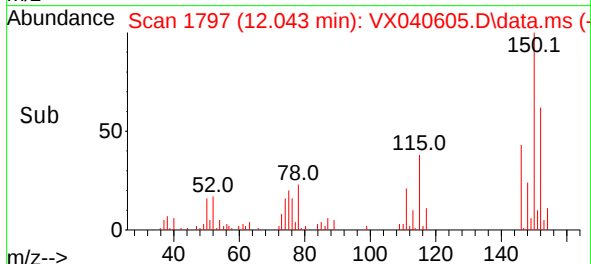
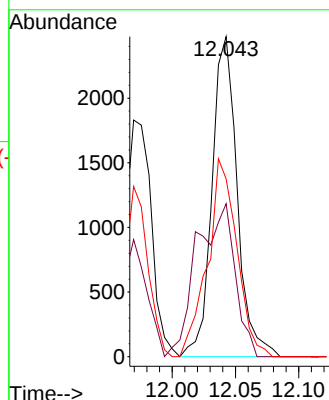
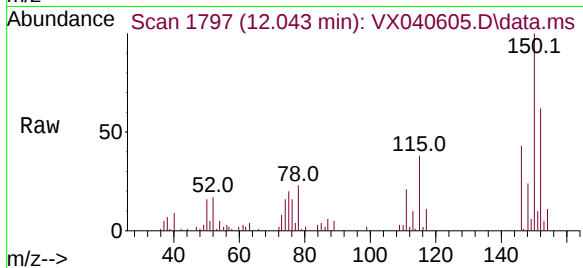
Tgt Ion:146 Resp: 3429

Ion Ratio Lower Upper

146 100

111 47.8 28.8 53.4

148 55.5 45.1 83.7



#67

1,2-Dichlorobenzene

Concen: 1.114 ug/L

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

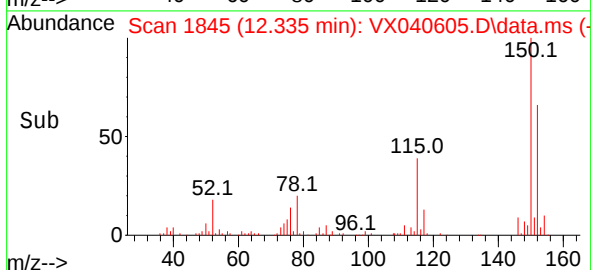
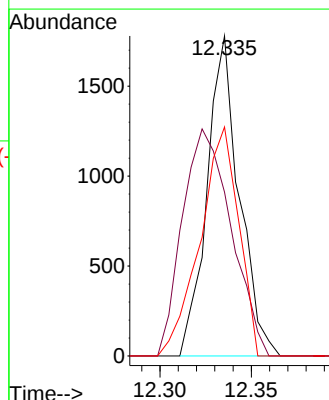
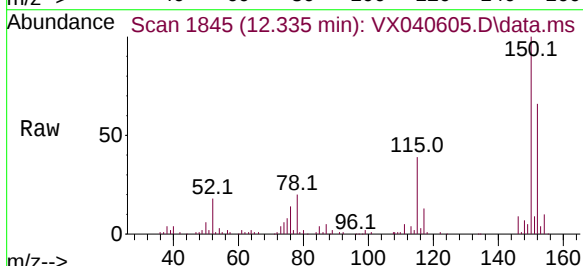
Tgt Ion:146 Resp: 2183

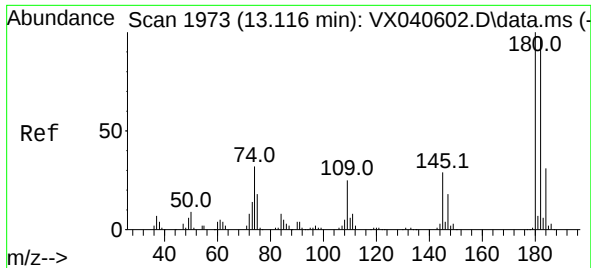
Ion Ratio Lower Upper

146 100

111 51.2 35.8 53.8

148 71.6 51.0 76.4





#69

1,3,5-Trichlorobenzene

Concen: 2.170 ug/L

RT: 13.116 min Scan# 1973

Delta R.T. 0.000 min

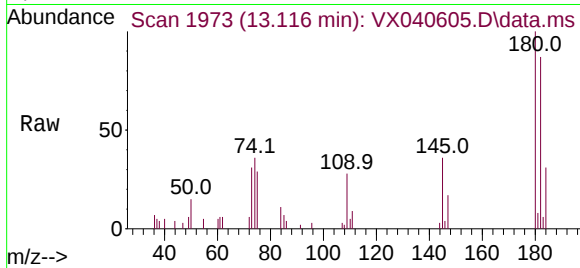
Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:180 Resp: 3003

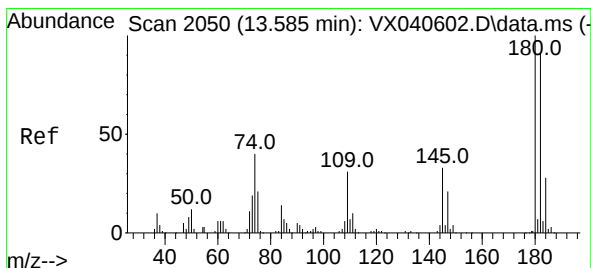
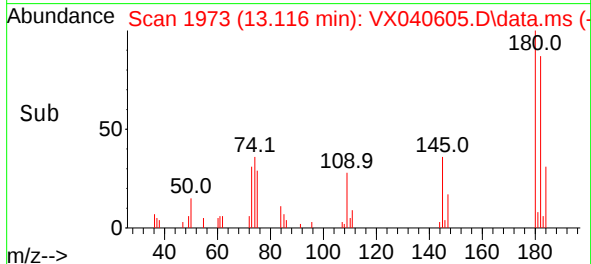
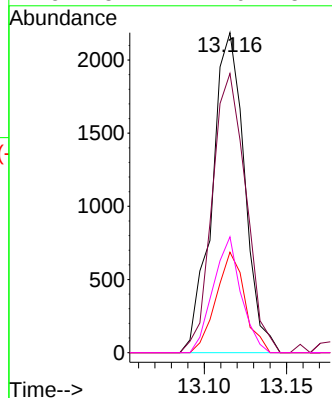
Ion Ratio Lower Upper

180 100

182 90.2 76.6 115.0

184 27.8 24.3 36.5

145 31.1 24.9 37.3



#70

1,2,4-trichlorobenzene

Concen: 2.481 ug/L

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

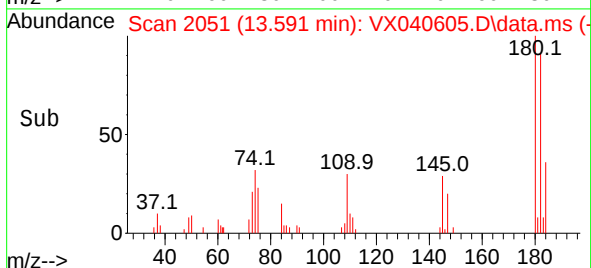
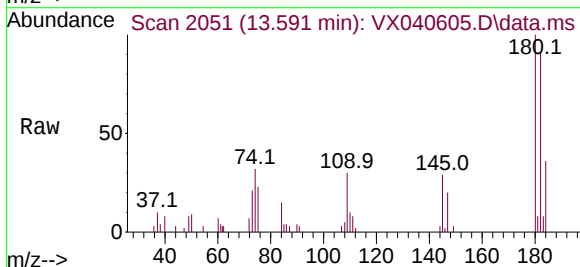
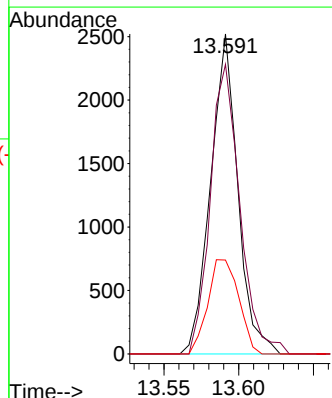
Tgt Ion:180 Resp: 3184

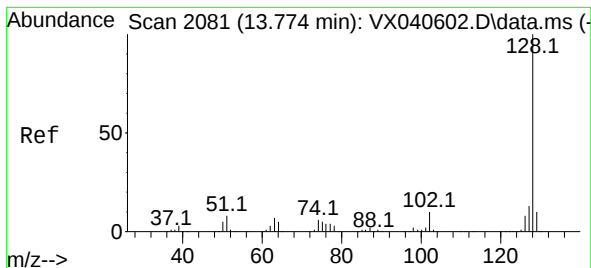
Ion Ratio Lower Upper

180 100

182 98.3 75.1 112.7

145 33.5 26.2 39.4





#71

Naphthalene

Concen: 2.983 ug/L

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Instrument :

MSVOA_X

ClientSampleId :

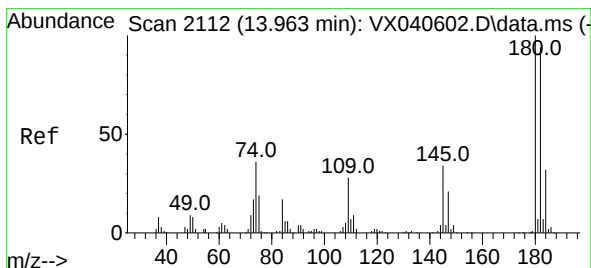
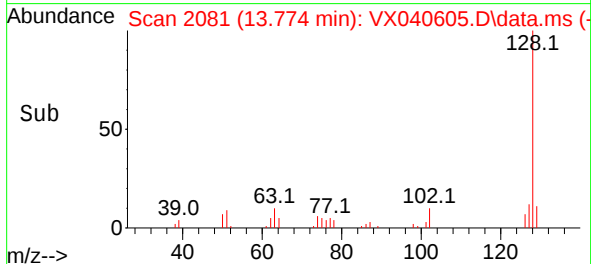
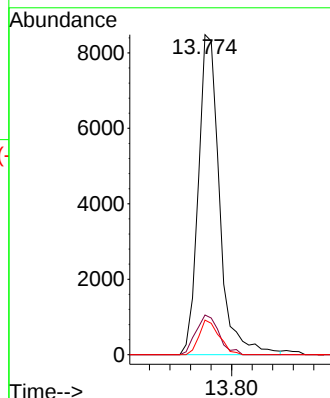
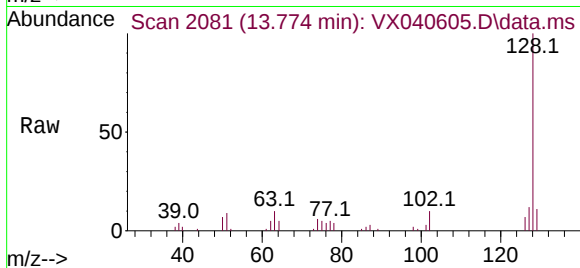
Tgt Ion:128 Resp: 12169

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 10.2 8.8 13.2



#72

1,2,3-Trichlorobenzene

Concen: 2.572 ug/L

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX040605.D

Acq: 06 Mar 2024 15:08

Tgt Ion:180 Resp: 3251

Ion Ratio Lower Upper

180 100

182 100.5 76.9 115.3

145 32.9 27.8 41.8

