

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035808.D
 Acq On : 23 May 2023 11:39
 Operator : JC/MD
 Sample : BLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BLK

Quant Time: May 23 12:04:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

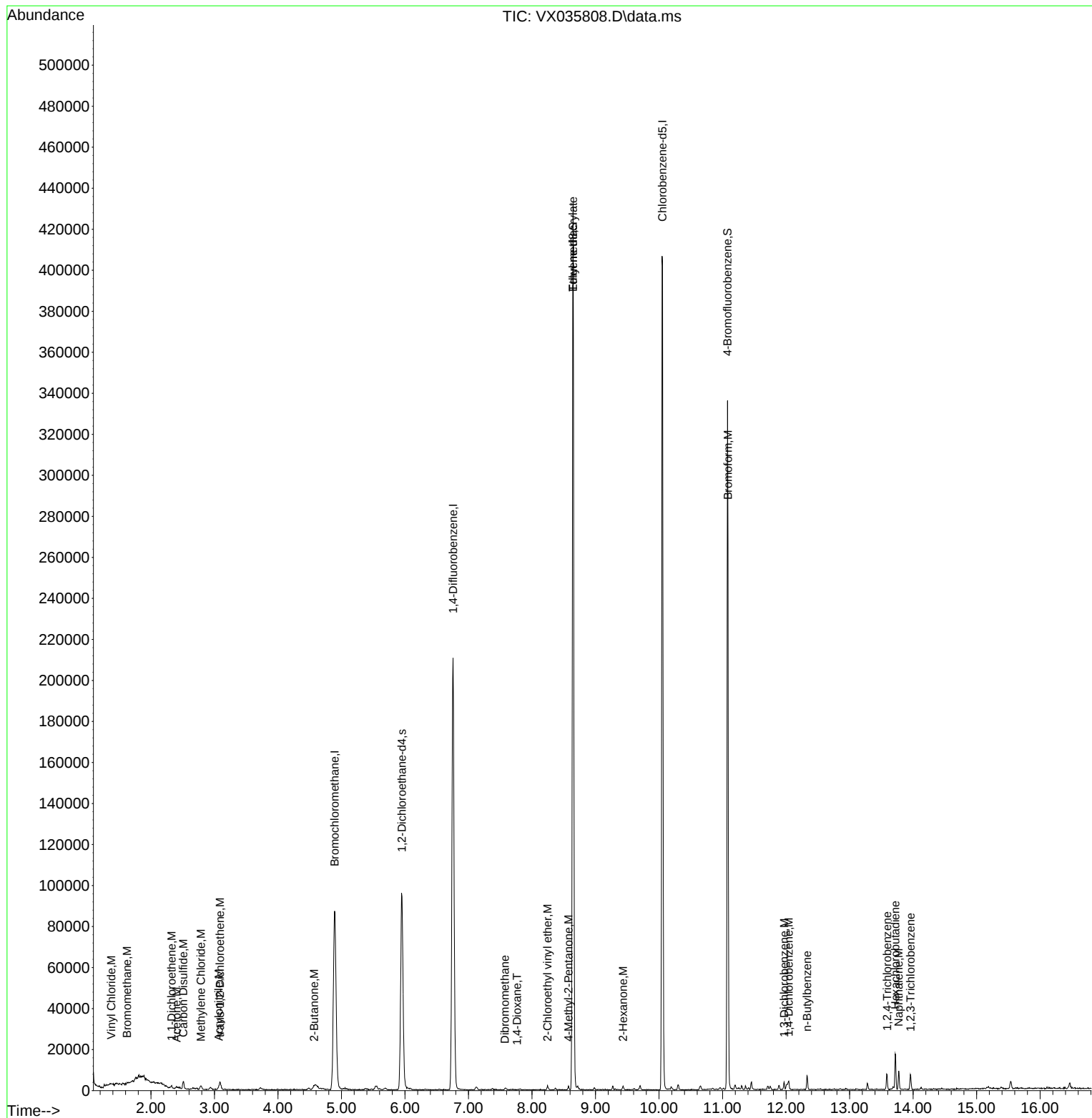
Internal Standards						
1) Bromochloromethane	4.891	128	36103	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	210771	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	183506	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	88360	29.456	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.200%		
60) 4-Bromofluorobenzene	11.079	95	85462	27.755	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.500%		
63) Toluene-d8	8.647	98	245935	30.316	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.067%		
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.373	62	458	0.215	ug/l #	82
5) Bromomethane	1.623	94	303	0.212	ug/l #	68
10) 1,1-Dichloroethene	2.325	96	409	0.226	ug/l #	60
14) Acrylonitrile	3.068	53	810	0.632	ug/l #	32
15) Acetone	2.404	58	279	0.728	ug/l #	1
16) Carbon Disulfide	2.507	76	4514	1.149	ug/l	99
18) Methylene Chloride	2.788	84	887	0.376	ug/l #	80
19) trans-1,2-Dichloroethene	3.087	96	860	0.422	ug/l #	91
30) 2-Butanone	4.568	43	457	0.238	ug/l #	57
40) Dibromomethane	7.574	93	381	0.226	ug/l	74
45) 1,4-Dioxane	7.763	88	20	0.353	ug/l #	24
51) Ethyl methacrylate	8.647	69	866	0.233	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	618	0.313	ug/l	95
56) Bromoform	11.085	173	652	0.455	ug/l #	1
58) 4-Methyl-2-Pentanone	8.573	43	980	0.275	ug/l #	75
59) 2-Hexanone	9.433	43	1109	0.413	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	1161	0.247	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	1416	0.300	ug/l	91
85) n-Butylbenzene	12.329	91	2316	0.296	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	1885	0.684	ug/l	96
90) Hexachlorobutadiene	13.719	225	2098	2.064	ug/l	98
91) Naphthalene	13.774	128	5610	0.588	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	1736	0.631	ug/l	90

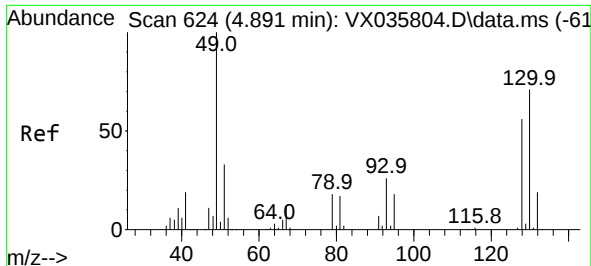
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 23 11:36:37 2023
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.891 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Instrument :

MSVOA_X

ClientSampleId :

BLK

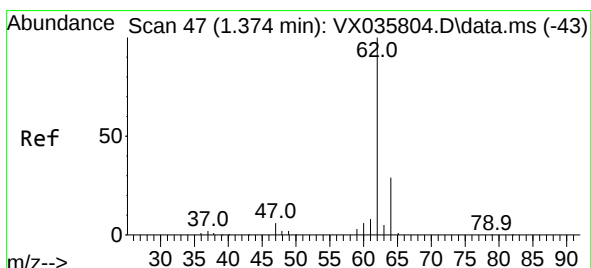
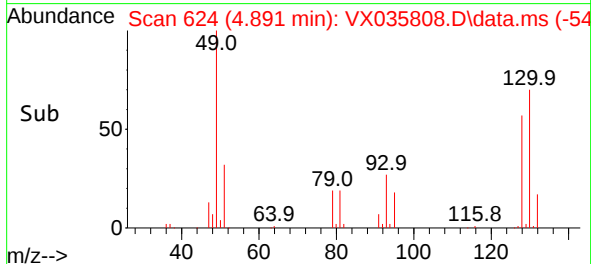
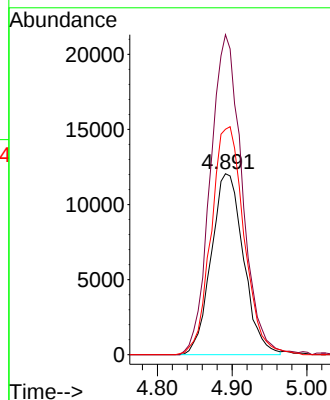
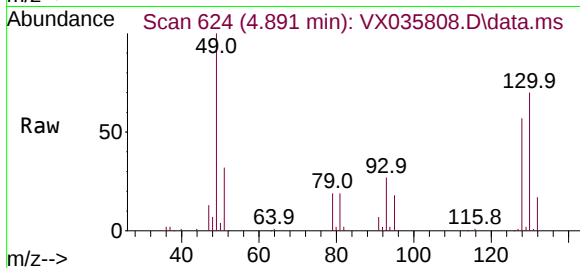
Tgt Ion:128 Resp: 36103

Ion Ratio Lower Upper

128 100

49 174.2 0.0 428.8

130 129.0 0.0 310.8



#4

Vinyl Chloride

Concen: 0.215 ug/l

RT: 1.373 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX035808.D

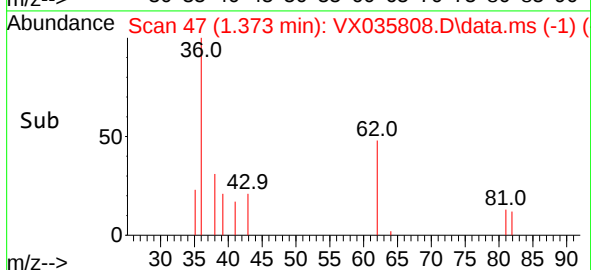
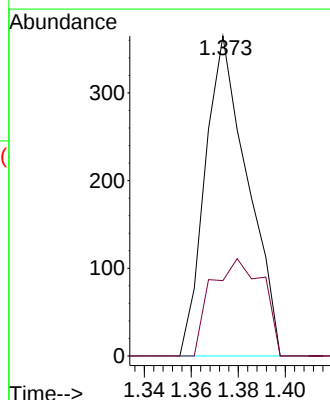
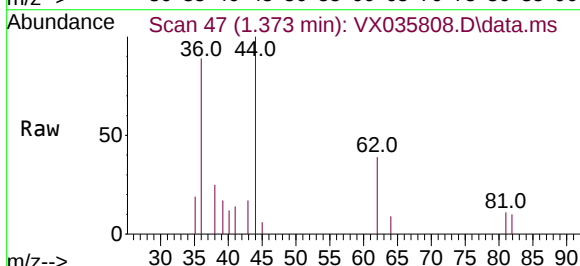
Acq: 23 May 2023 11:39

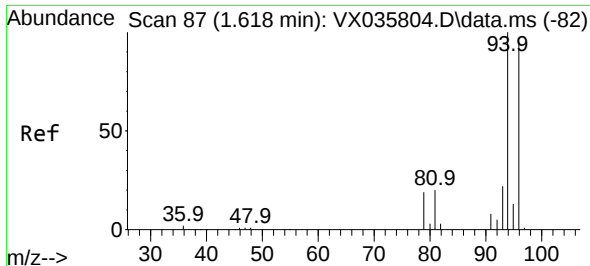
Tgt Ion: 62 Resp: 458

Ion Ratio Lower Upper

62 100

64 23.6 26.9 40.3#

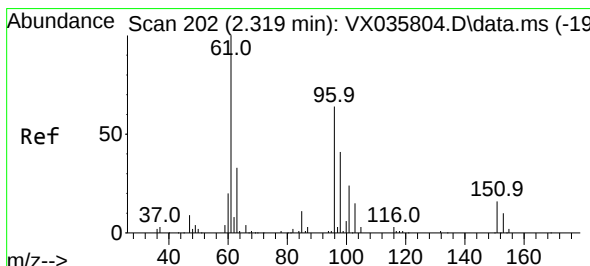
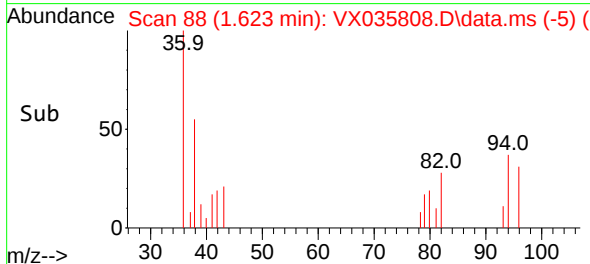
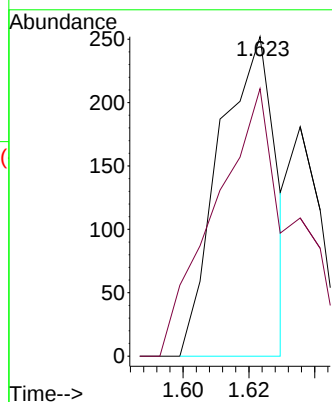
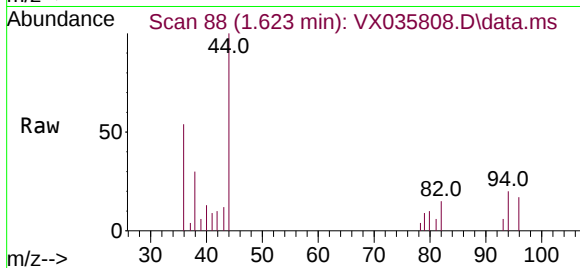




#5
Bromomethane
Concen: 0.212 ug/l
RT: 1.623 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

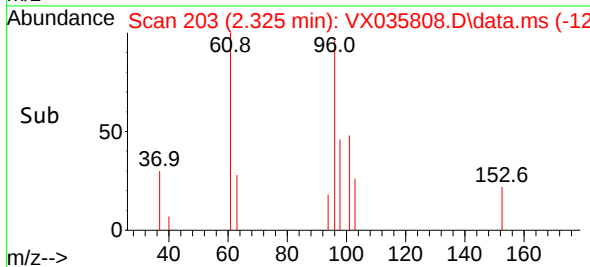
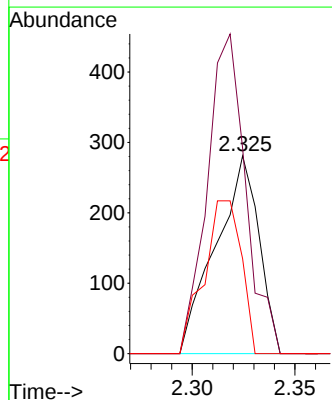
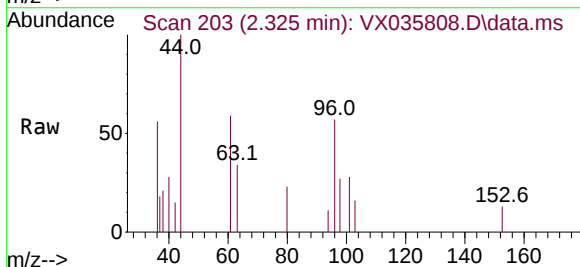
Instrument :
MSVOA_X
ClientSampleId :
BLK

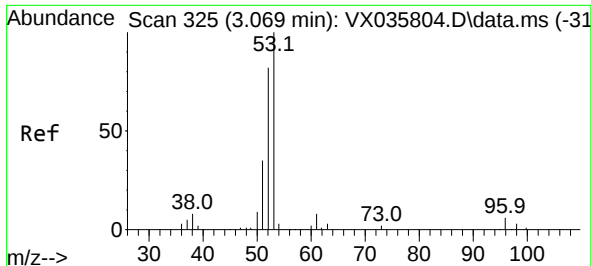
Tgt Ion: 94 Resp: 303
Ion Ratio Lower Upper
94 100
96 61.5 73.4 110.0#



#10
1,1-Dichloroethene
Concen: 0.226 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion: 96 Resp: 409
Ion Ratio Lower Upper
96 100
61 103.9 135.8 203.6#
98 48.0 49.8 74.6#





#14

Acrylonitrile

Concen: 0.632 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Instrument :

MSVOA_X

ClientSampleId :

BLK

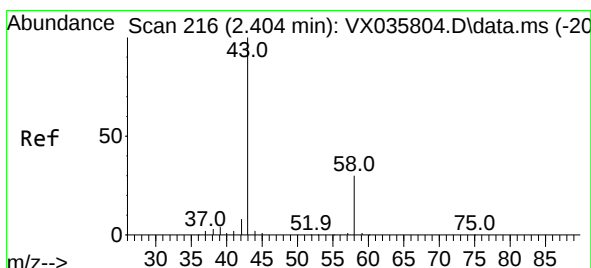
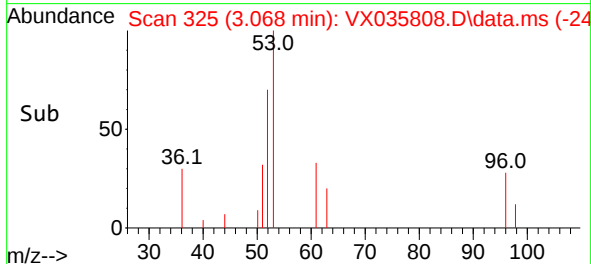
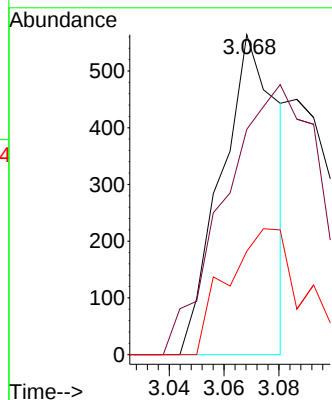
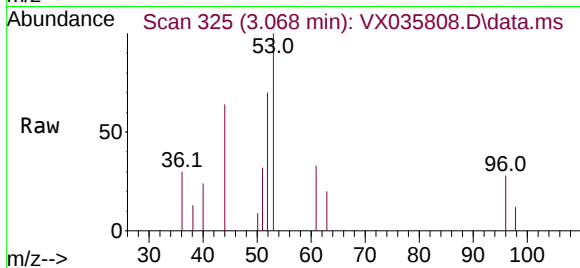
Tgt Ion: 53 Resp: 810

Ion Ratio Lower Upper

53 100

52 160.0 41.3 123.7#

51 51.6 17.9 53.7



#15

Acetone

Concen: 0.728 ug/l

RT: 2.404 min Scan# 216

Delta R.T. -0.000 min

Lab File: VX035808.D

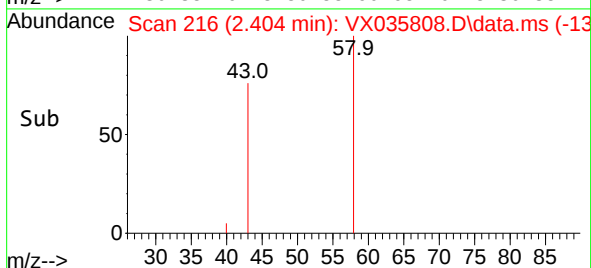
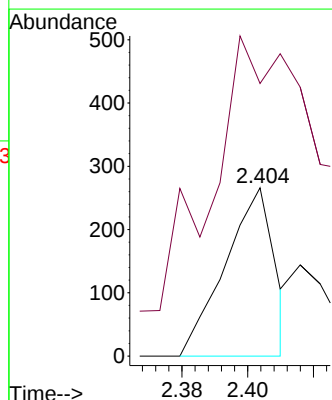
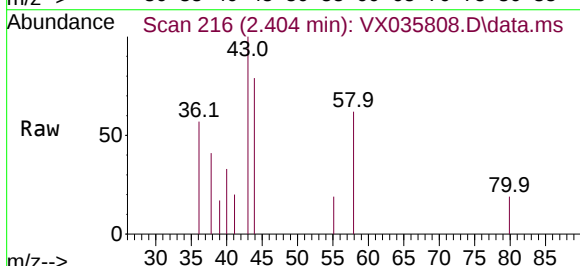
Acq: 23 May 2023 11:39

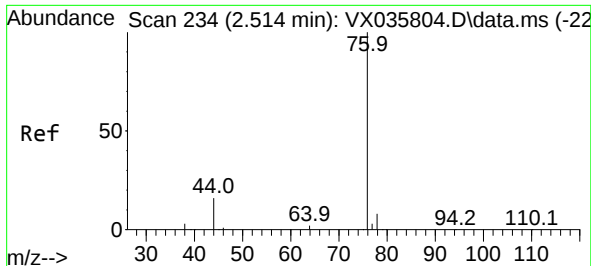
Tgt Ion: 58 Resp: 279

Ion Ratio Lower Upper

58 100

43 62.4 270.8 406.2#





#16

Carbon Disulfide

Concen: 1.149 ug/l

RT: 2.507 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Instrument :

MSVOA_X

ClientSampleId :

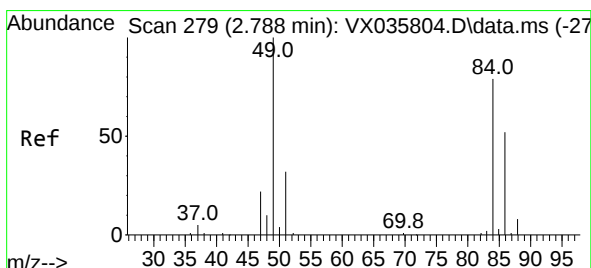
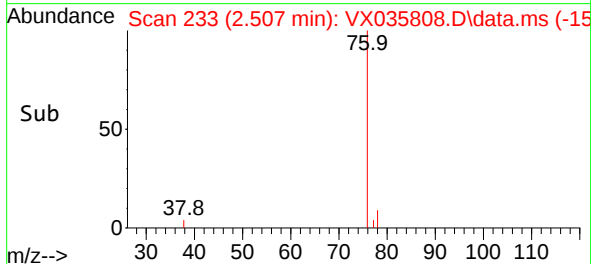
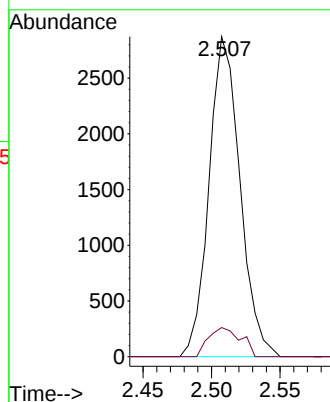
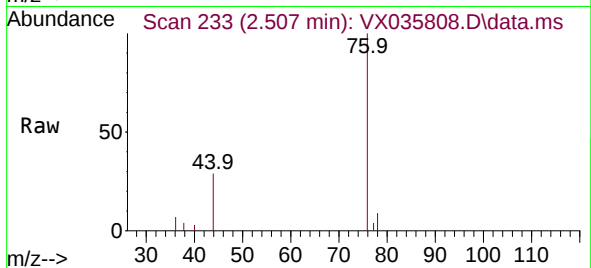
BLK

Tgt Ion: 76 Resp: 4514

Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.6



#18

Methylene Chloride

Concen: 0.376 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Tgt Ion: 84 Resp: 887

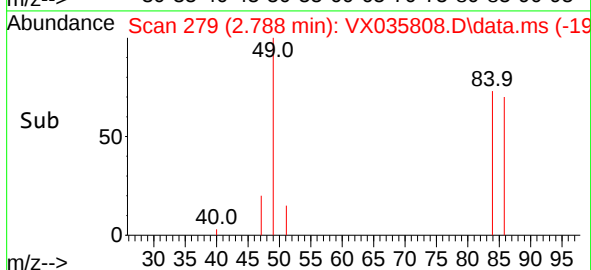
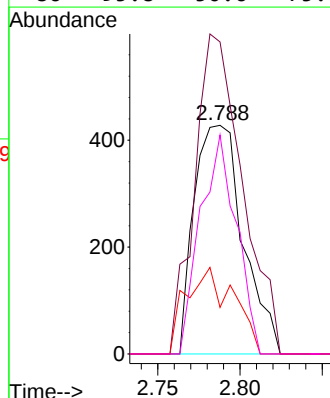
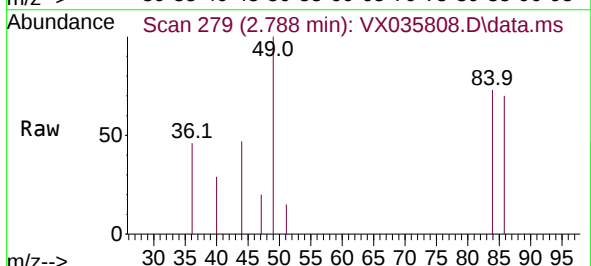
Ion Ratio Lower Upper

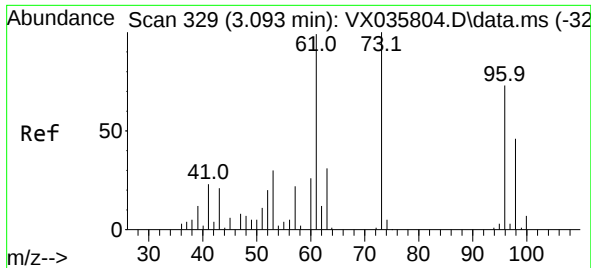
84 100

49 136.4 103.9 155.9

51 20.3 30.6 45.8#

86 95.8 50.6 75.8#





#19

trans-1,2-Dichloroethene

Concen: 0.422 ug/l

RT: 3.087 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Instrument :

MSVOA_X

ClientSampleId :

BLK

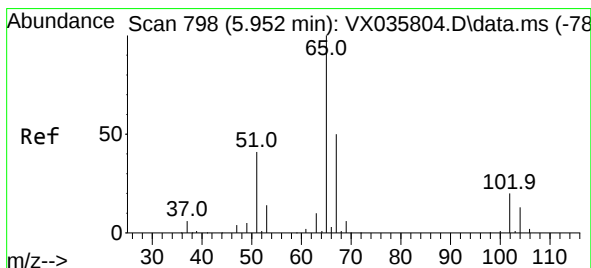
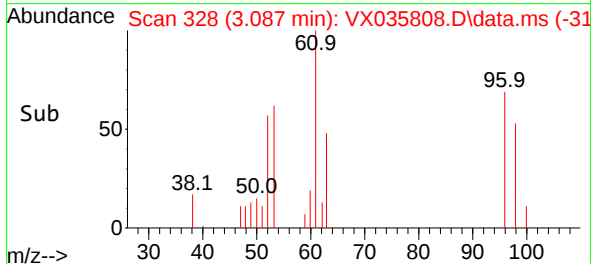
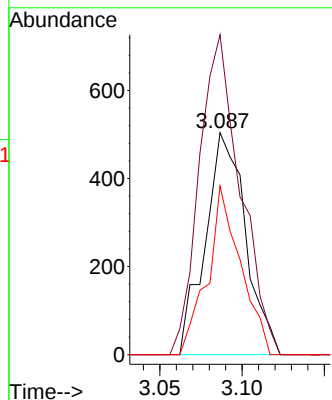
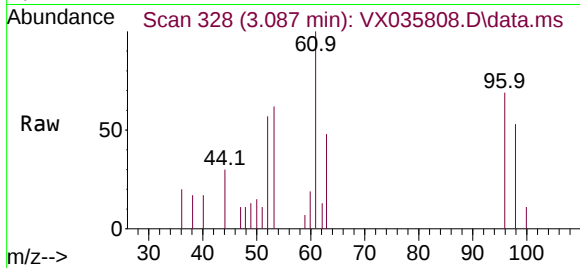
Tgt Ion: 96 Resp: 860

Ion Ratio Lower Upper

96 100

61 144.2 111.1 166.7

98 76.0 48.6 72.8#



#27

1,2-Dichloroethane-d4

Concen: 29.456 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX035808.D

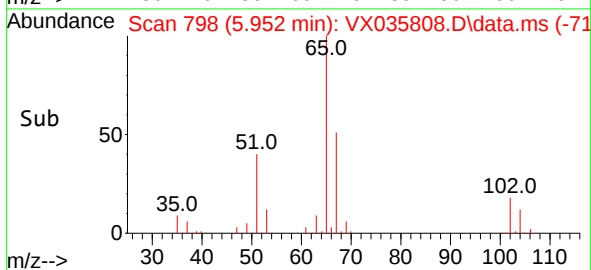
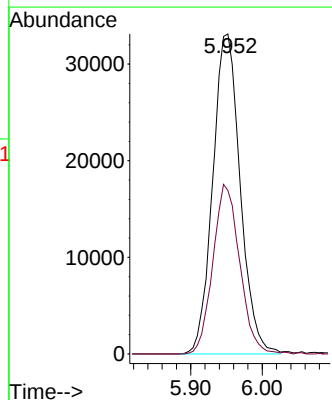
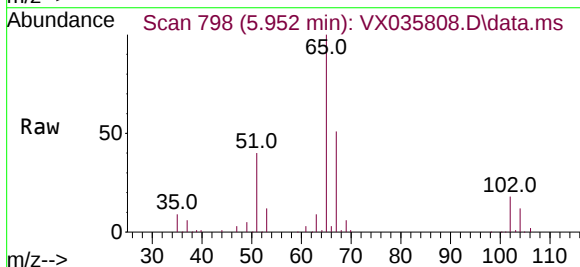
Acq: 23 May 2023 11:39

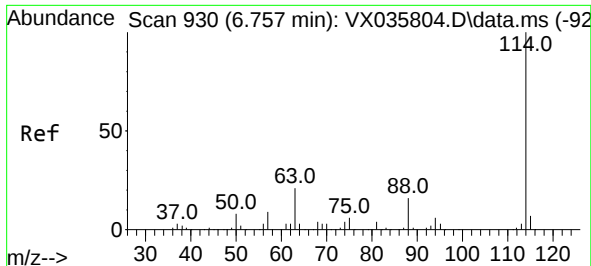
Tgt Ion: 65 Resp: 88360

Ion Ratio Lower Upper

65 100

67 51.6 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Instrument :

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ClientSampleId :

BLK

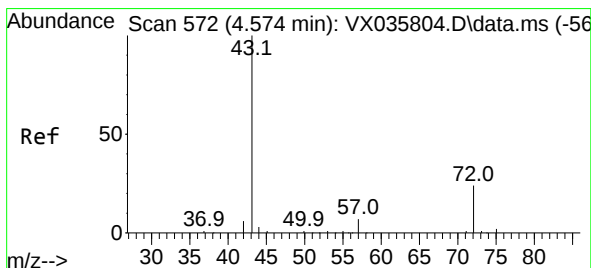
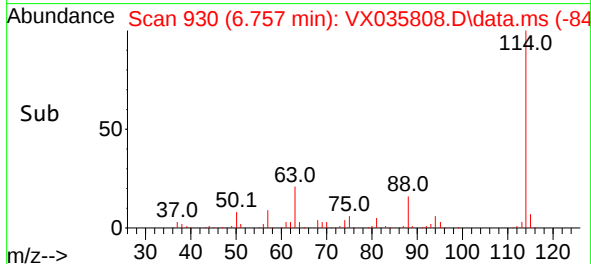
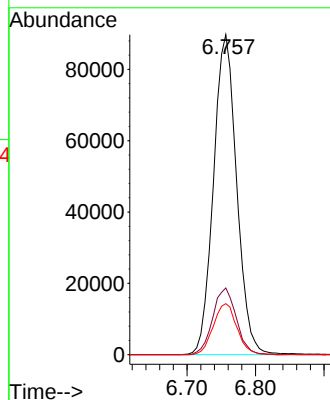
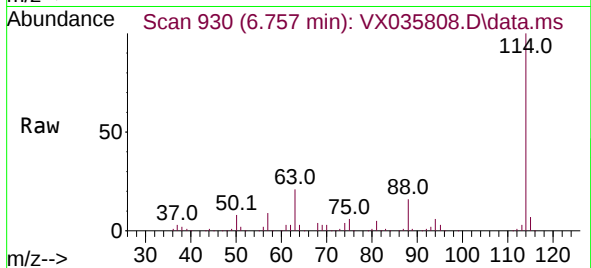
Tgt Ion:114 Resp: 210771

Ion Ratio Lower Upper

114 100

63 21.2 18.0 27.0

88 16.3 13.3 19.9



#30

2-Butanone

Concen: 0.238 ug/l

RT: 4.568 min Scan# 571

Delta R.T. -0.006 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

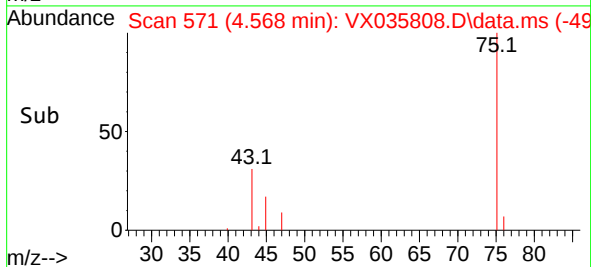
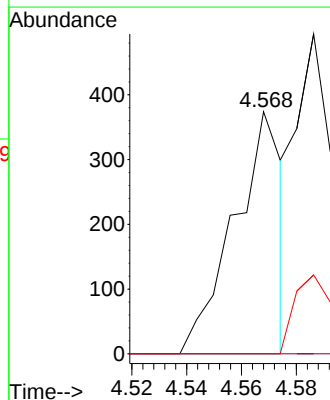
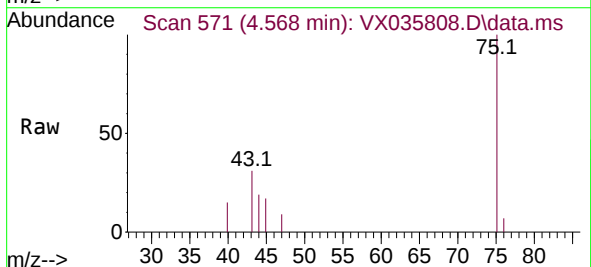
Tgt Ion: 43 Resp: 457

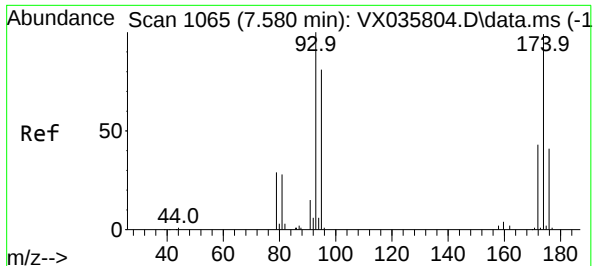
Ion Ratio Lower Upper

43 100

57 0.0 6.3 9.5#

72 0.0 19.6 29.4#





#40

Dibromomethane

Concen: 0.226 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

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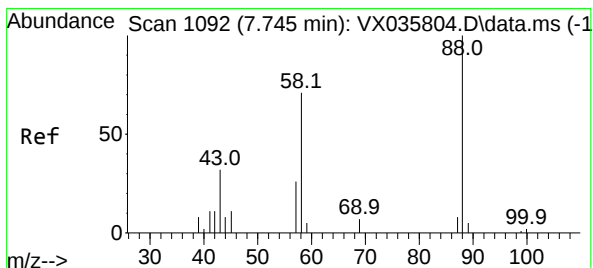
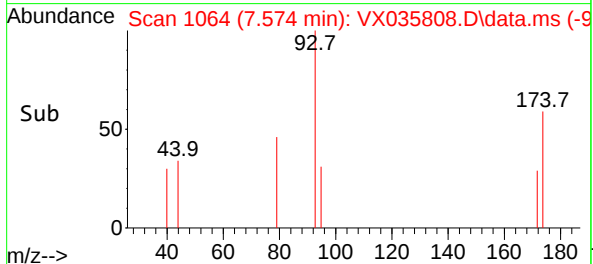
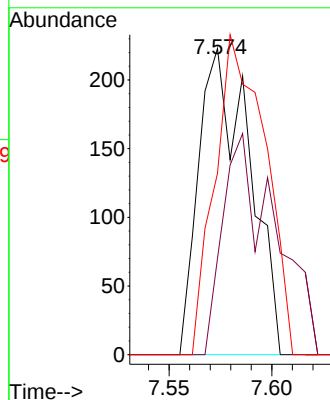
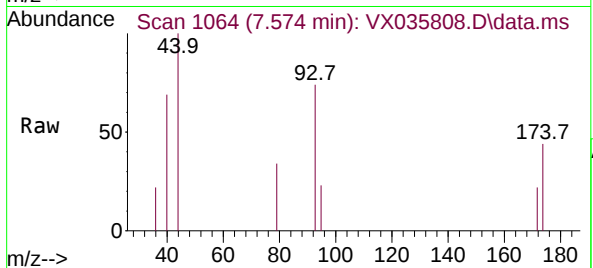
Tgt Ion: 93 Resp: 381

Ion Ratio Lower Upper

93 100

95 42.5 0.0 165.8

174 103.4 0.0 188.8



#45

1,4-Dioxane

Concen: 0.353 ug/l

RT: 7.763 min Scan# 1095

Delta R.T. 0.018 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

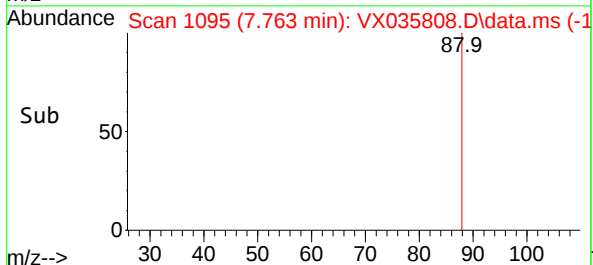
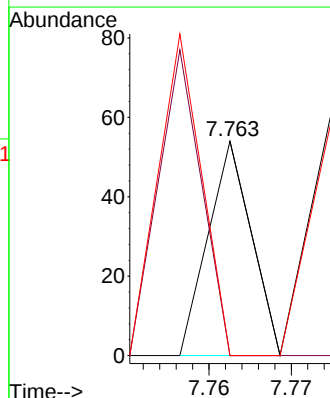
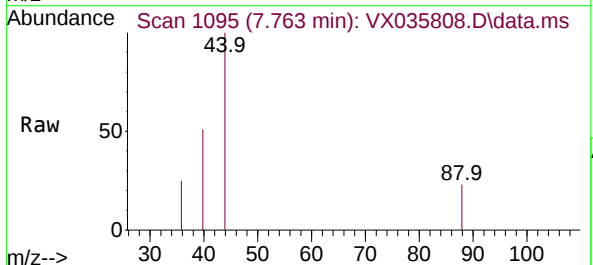
Tgt Ion: 88 Resp: 20

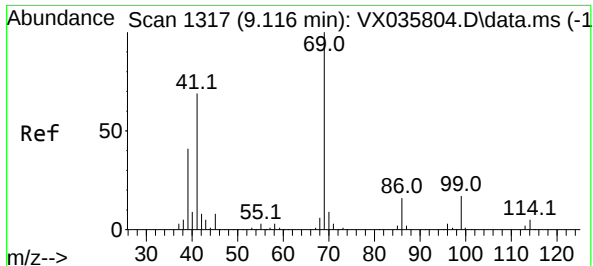
Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 0.0 55.6 83.4#

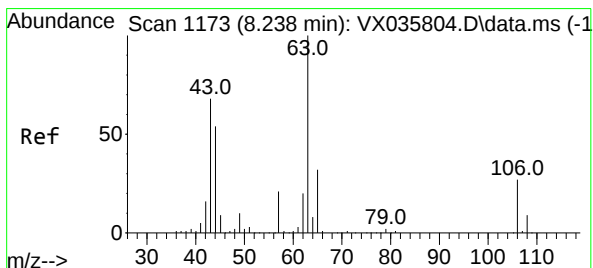
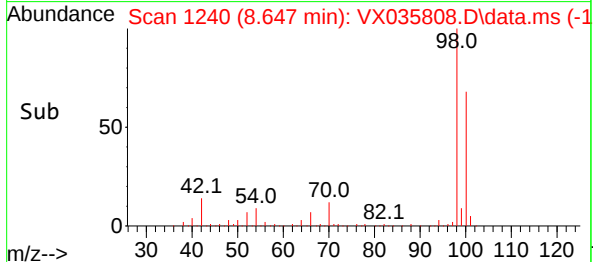
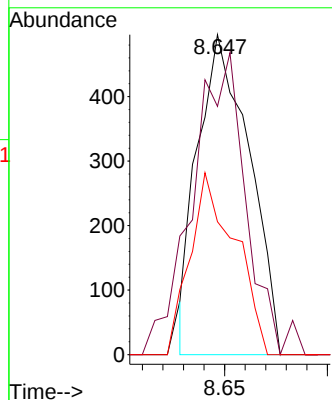
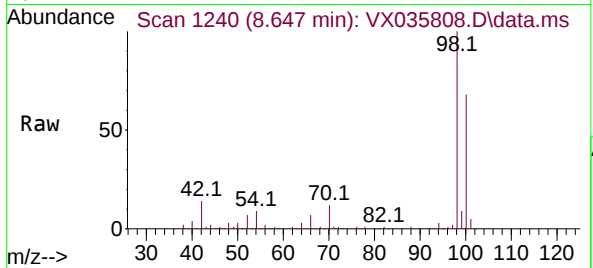




#51
Ethyl methacrylate
Concen: 0.233 ug/l
RT: 8.647 min Scan# 1174
Delta R.T. -0.470 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

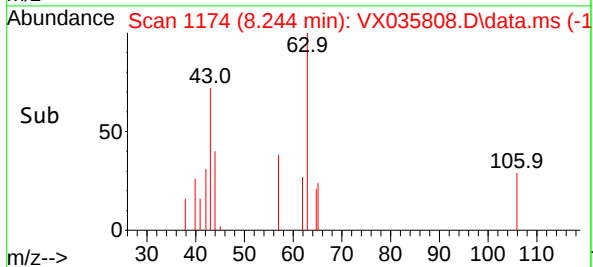
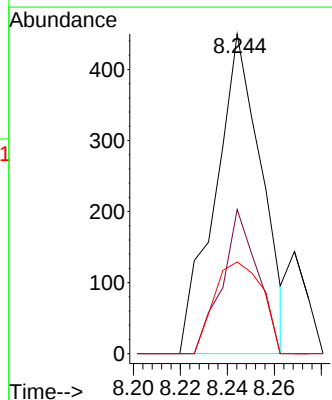
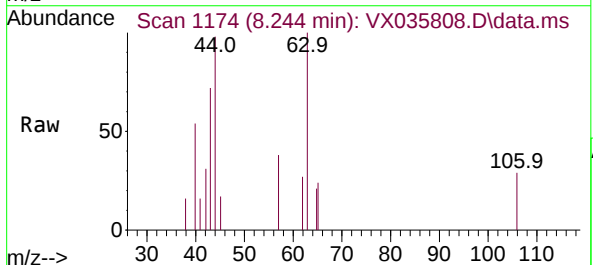
Instrument :
MSVOA_X
ClientSampleId :
BLK

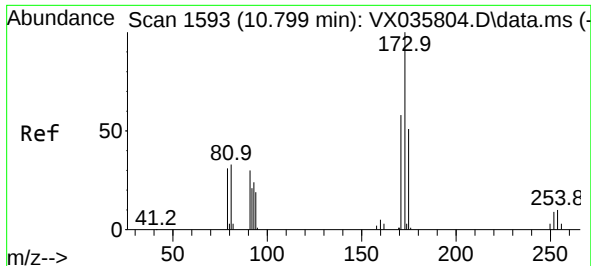
Tgt Ion: 69 Resp: 866
Ion Ratio Lower Upper
69 100
41 77.6 36.2 108.6
39 41.5 21.2 63.6



#55
2-Chloroethyl vinyl ether
Concen: 0.313 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion: 63 Resp: 618
Ion Ratio Lower Upper
63 100
65 34.1 25.4 38.2
106 29.8 21.6 32.4

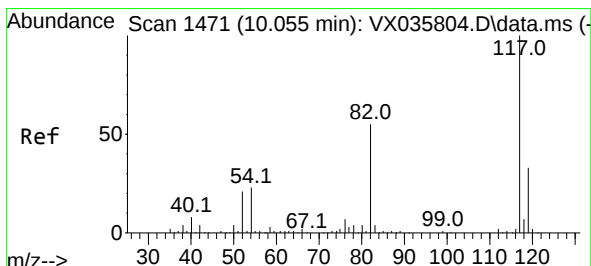
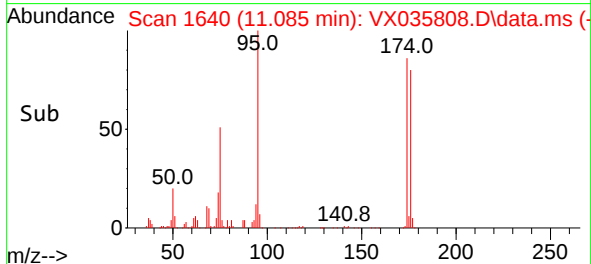
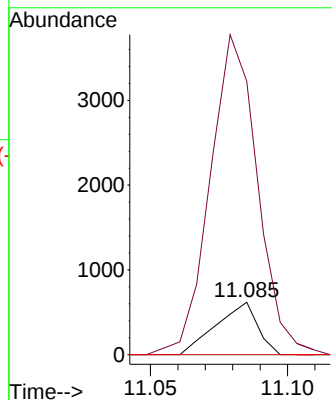
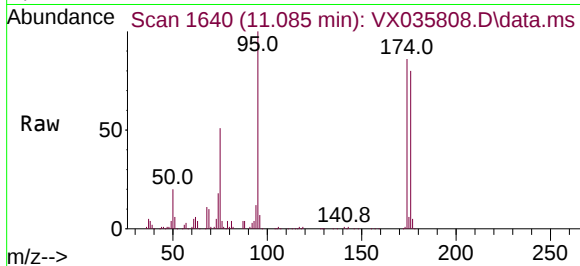




#56
Bromoform
Concen: 0.455 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.286 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

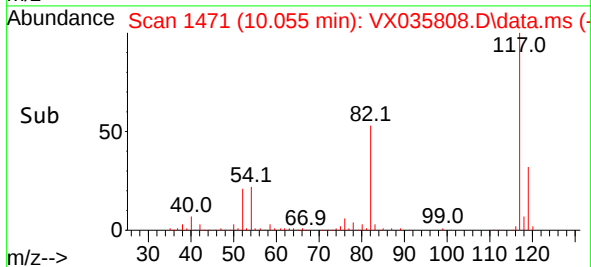
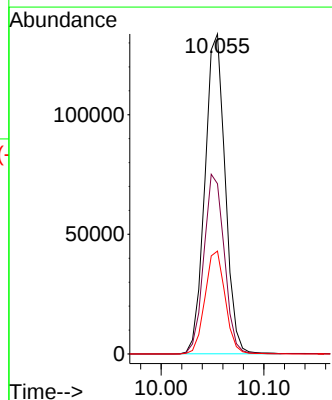
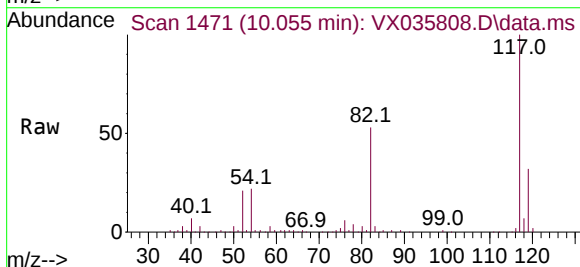
Instrument :
MSVOA_X
ClientSampleId :
BLK

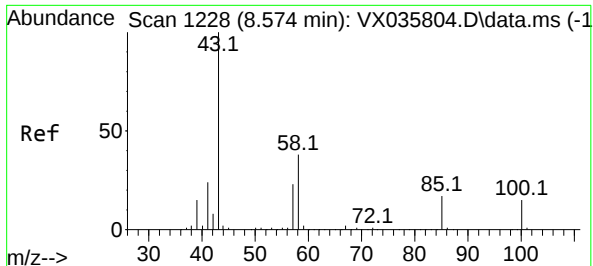
Tgt Ion:173 Resp: 652
Ion Ratio Lower Upper
173 100
175 698.9 37.0 55.4#
254 0.0 6.7 10.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion:117 Resp: 183506
Ion Ratio Lower Upper
117 100
82 56.8 45.8 68.8
119 32.1 25.4 38.0





#58

4-Methyl-2-Pentanone

Concen: 0.275 ug/l

RT: 8.573 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

Instrument :

MSVOA_X

ClientSampleId :

BLK

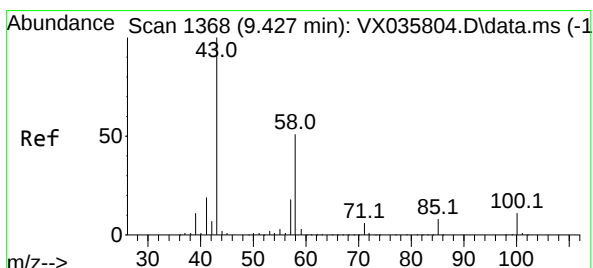
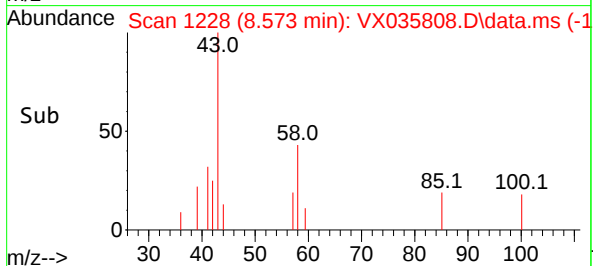
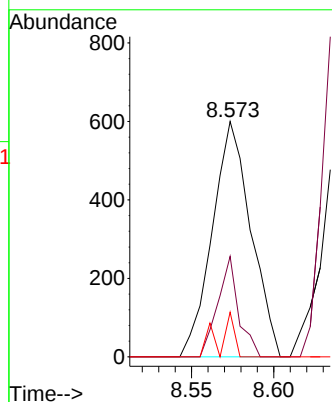
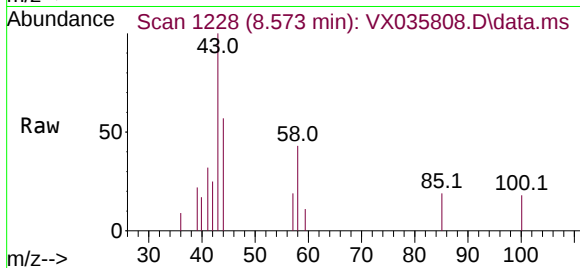
Tgt Ion: 43 Resp: 980

Ion Ratio Lower Upper

43 100

58 23.0 29.9 44.9#

85 4.3 13.2 19.8#



#59

2-Hexanone

Concen: 0.413 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX035808.D

Acq: 23 May 2023 11:39

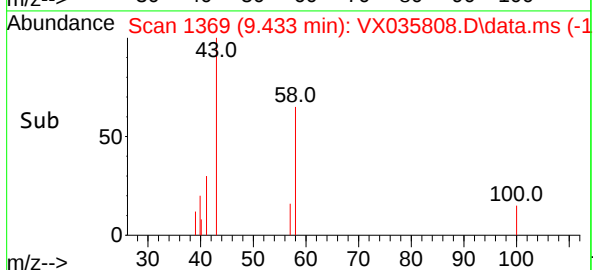
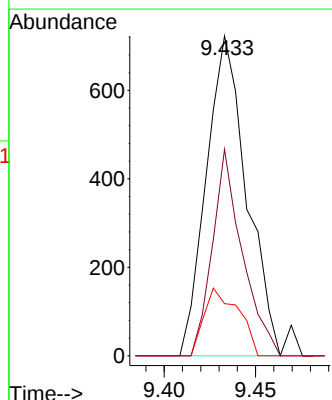
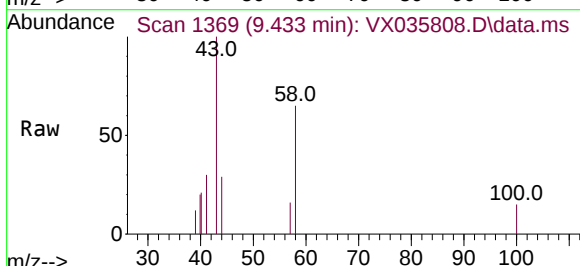
Tgt Ion: 43 Resp: 1109

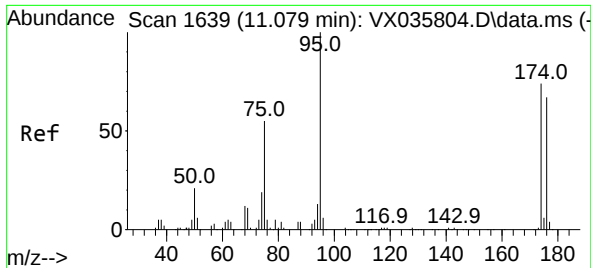
Ion Ratio Lower Upper

43 100

58 48.1 41.7 62.5

57 18.0 14.7 22.1

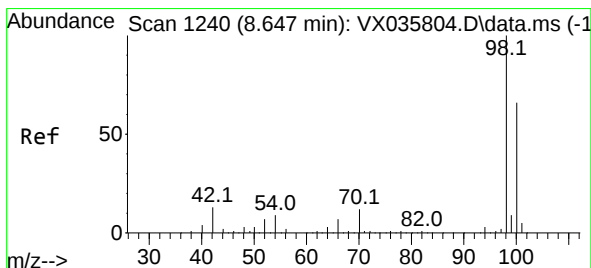
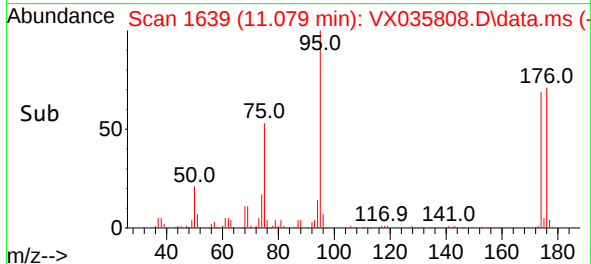
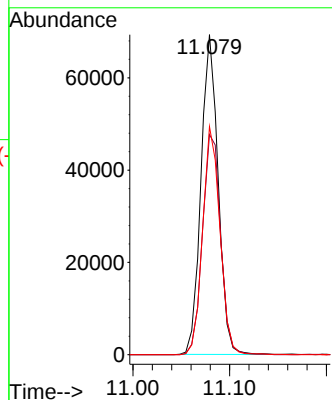
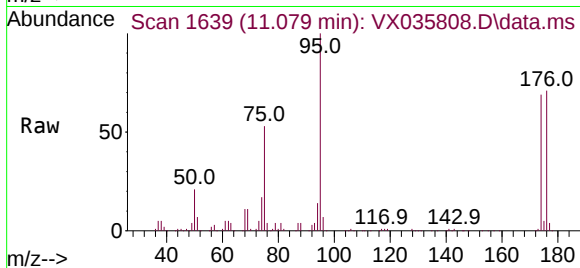




#60
4-Bromofluorobenzene
Concen: 27.755 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

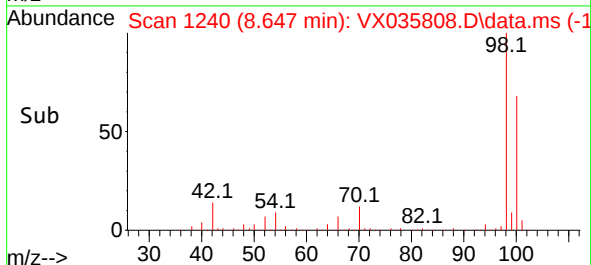
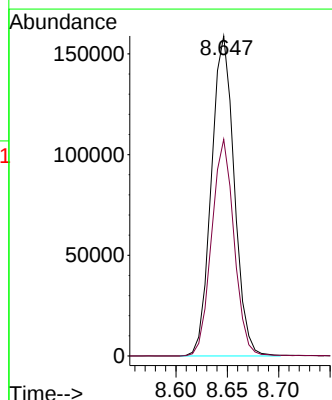
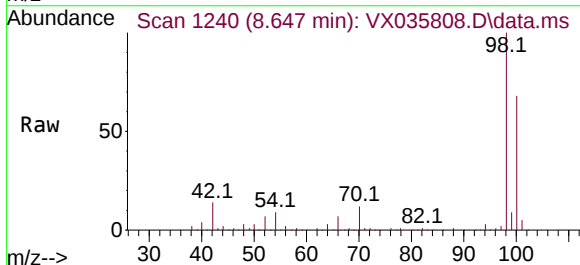
Instrument :
MSVOA_X
ClientSampleId :
BLK

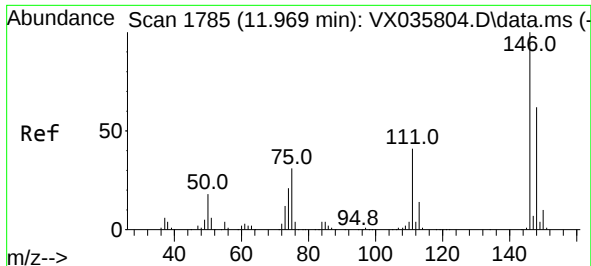
Tgt Ion: 95 Resp: 85462
Ion Ratio Lower Upper
95 100
174 72.9 0.2 0.4#
176 72.1 0.2 0.2#



#63
Toluene-d8
Concen: 30.316 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion: 98 Resp: 245935
Ion Ratio Lower Upper
98 100
100 66.3 52.1 78.1

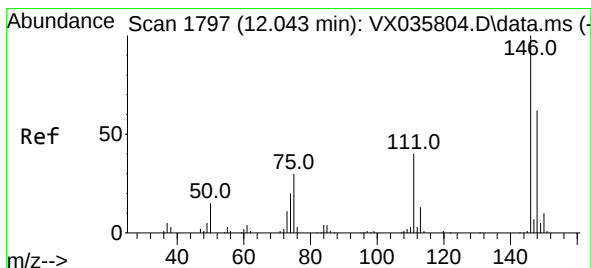
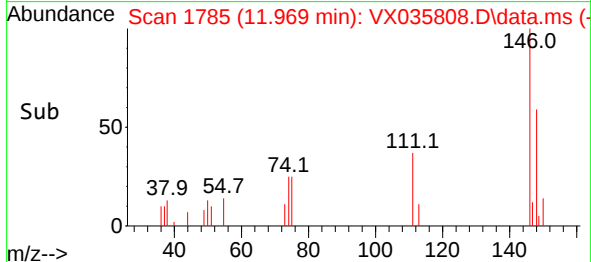
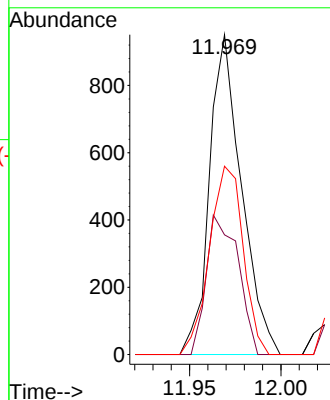
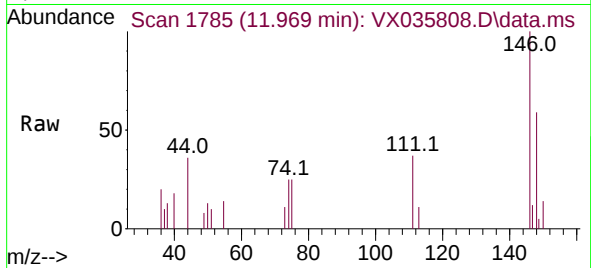




#83
1,3-Dichlorobenzene
Concen: 0.247 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

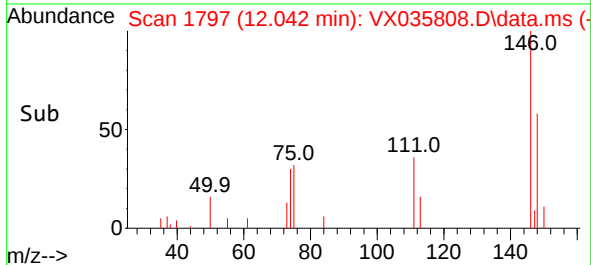
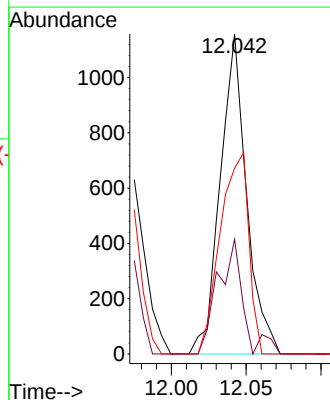
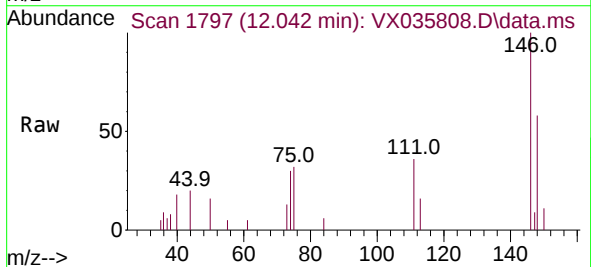
Instrument :
MSVOA_X
ClientSampleId :
BLK

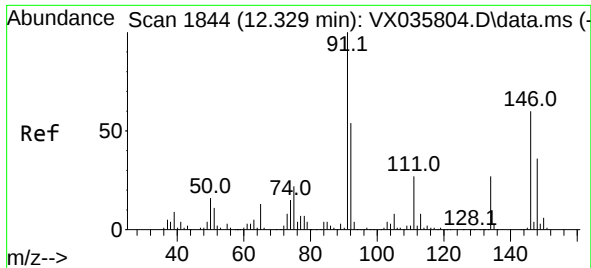
Tgt Ion:146 Resp: 1161
Ion Ratio Lower Upper
146 100
111 43.4 20.6 61.9
148 62.1 31.6 94.7



#84
1,4-Dichlorobenzene
Concen: 0.300 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion:146 Resp: 1416
Ion Ratio Lower Upper
146 100
111 31.4 20.3 60.9
148 68.0 31.8 95.3

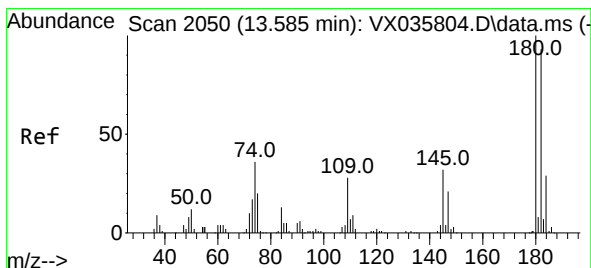
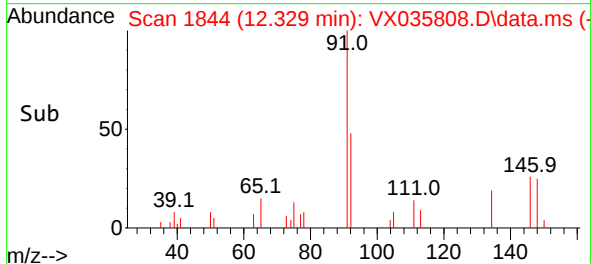
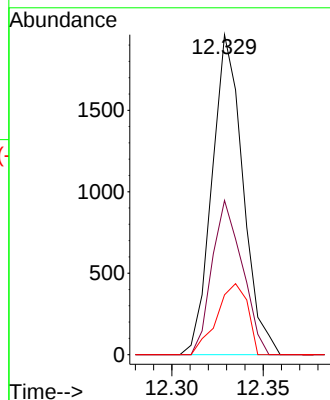
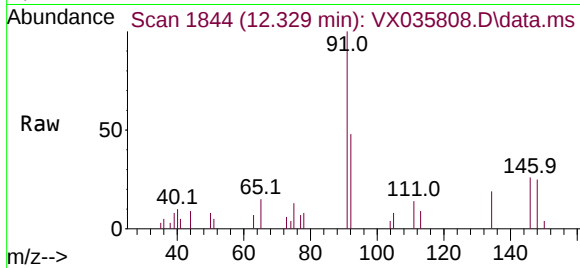




#85
n-Butylbenzene
Concen: 0.296 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

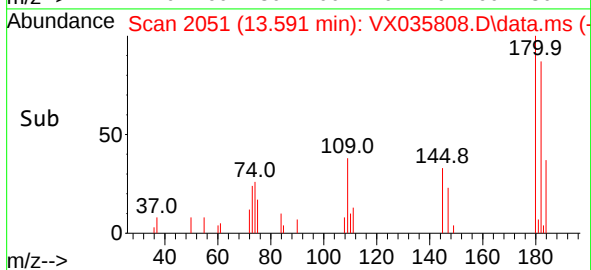
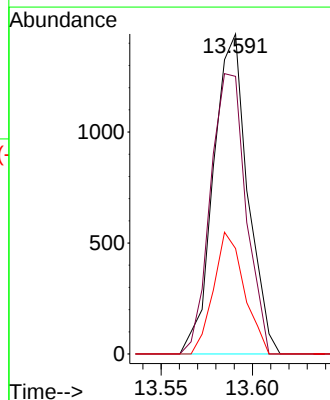
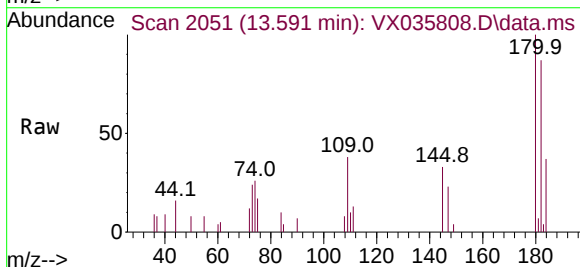
Instrument :
MSVOA_X
ClientSampleId :
BLK

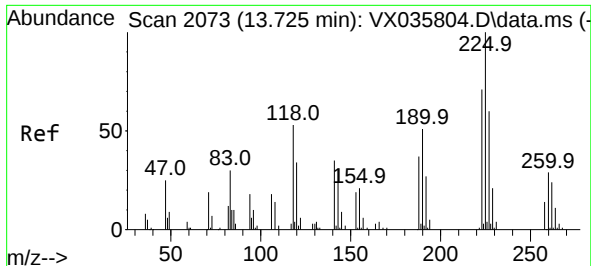
Tgt Ion: 91	Resp:	2316
Ion	Ratio	Lower Upper
91	100	
92	47.2	0.0 107.6
134	22.1	0.0 49.8



#89
1,2,4-Trichlorobenzene
Concen: 0.684 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion: 180	Resp:	1885
Ion	Ratio	Lower Upper
180	100	
182	90.4	75.8 113.8
145	34.1	25.8 38.6

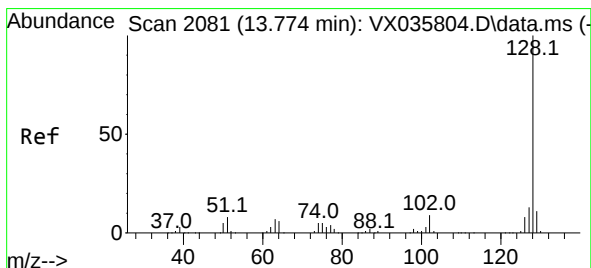
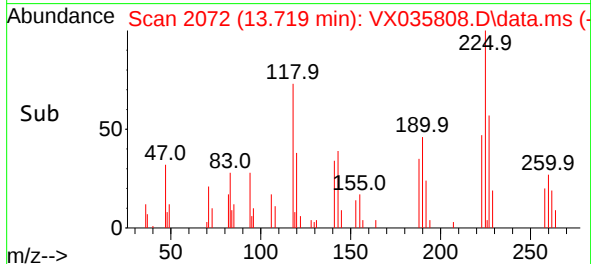
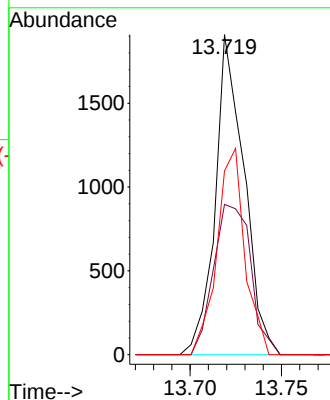
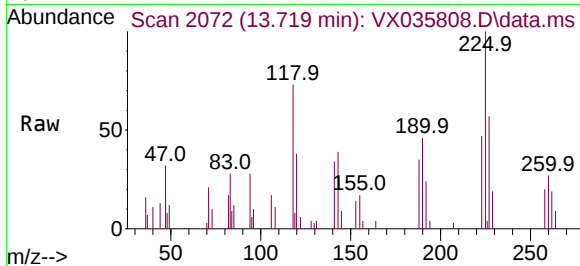




#90
Hexachlorobutadiene
Concen: 2.064 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

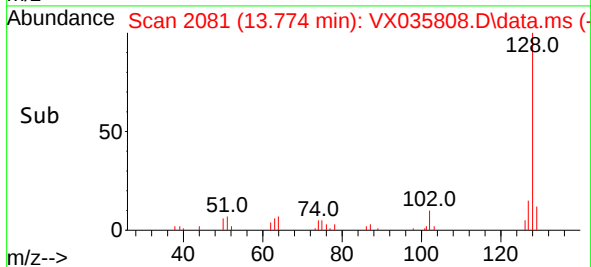
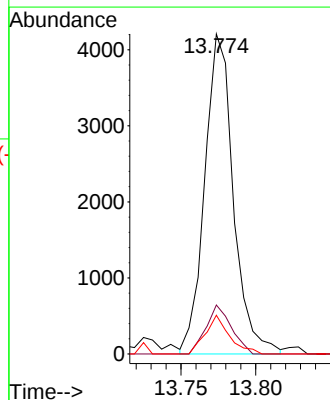
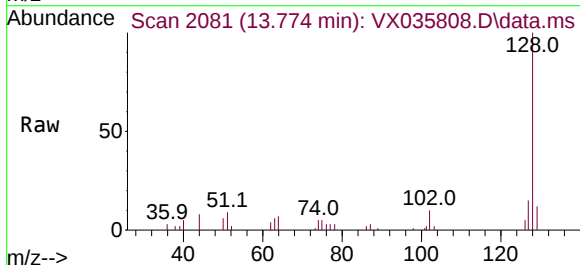
Instrument :
MSVOA_X
ClientSampleId :
BLK

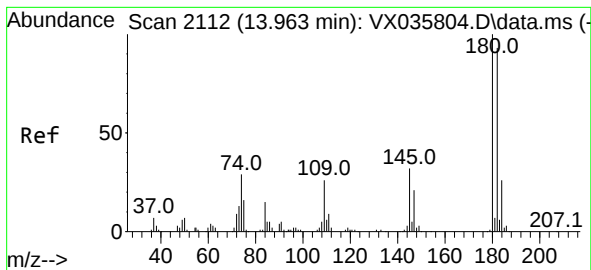
Tgt Ion:225 Resp: 2098
Ion Ratio Lower Upper
225 100
223 60.4 0.0 124.2
227 62.1 0.0 122.8



#91
Naphthalene
Concen: 0.588 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX035808.D
Acq: 23 May 2023 11:39

Tgt Ion:128 Resp: 5610
Ion Ratio Lower Upper
128 100
127 13.5 10.3 15.5
129 10.1 8.8 13.2





#92

1,2,3-Trichlorobenzene

Concen: 0.631 ug/l

RT: 13.963 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX035808.D

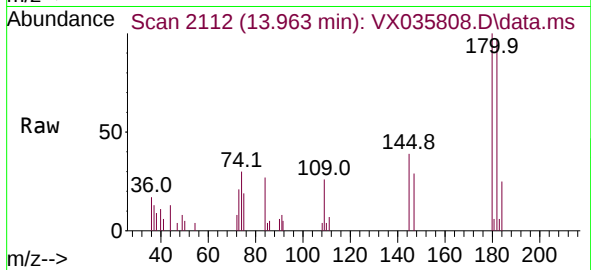
Acq: 23 May 2023 11:39

Instrument :

MSVOA_X

ClientSampleId :

BLK



Tgt Ion:180 Resp: 1736

Ion Ratio Lower Upper

180 100

182 107.4 0.0 191.0

145 35.3 0.0 66.8

