

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081623\
 Data File : VX037024.D
 Acq On : 16 Aug 2023 17:48
 Operator : JC/MD
 Sample : 04024-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20230815

Quant Time: Aug 17 04:17:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

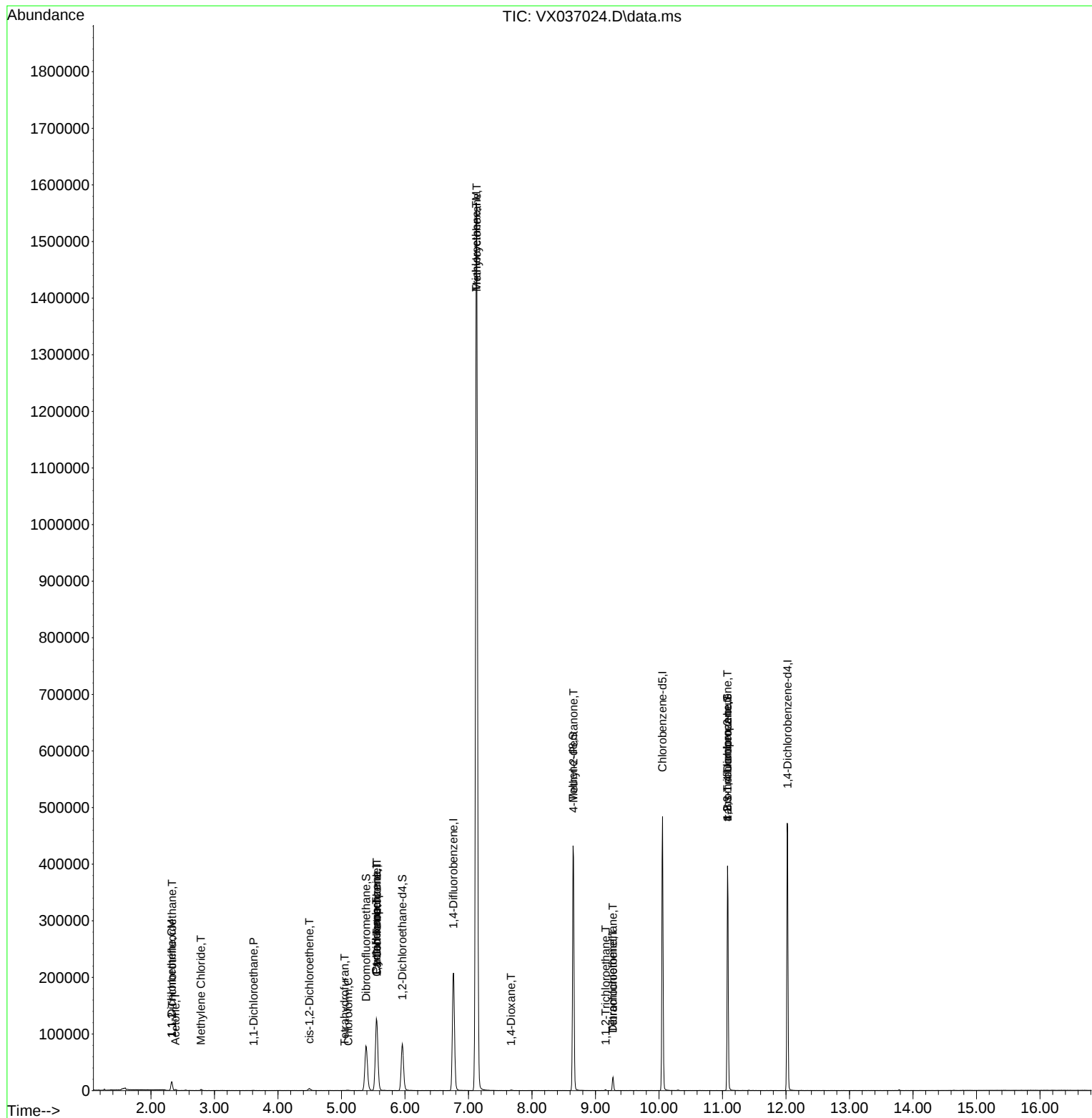
Internal Standards						
1) Pentafluorobenzene	5.550	168	116028	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	218153	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	212703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	83022	48.358	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.720%
35) Dibromofluoromethane	5.385	113	68576	45.734	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.460%
50) Toluene-d8	8.647	98	261791	49.233	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.460%
62) 4-Bromofluorobenzene	11.079	95	106642	53.157	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	106.320%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.331	101	5084	3.861	ug/l	96
12) 1,1-Dichloroethene	2.325	96	1369	1.054	ug/l #	72
16) Acetone	2.386	43	1643	2.306	ug/l	95
20) Methylene Chloride	2.788	84	908	0.573	ug/l #	78
24) 1,1-Dichloroethane	3.617	63	751	0.276	ug/l #	83
27) cis-1,2-Dichloroethene	4.495	96	2467	1.430	ug/l	78
29) Tetrahydrofuran	5.050	42	181	0.243	ug/l #	53
30) Chloroform	5.105	83	940	0.337	ug/l #	78
31) Cyclohexane	5.550	56	2555	1.075	ug/l #	11
36) 1,1-Dichloropropene	5.556	75	9518	4.259	ug/l #	51
38) Carbon Tetrachloride	5.556	117	12594	5.300	ug/l #	15
39) Methylcyclohexane	7.129	83	7282	2.620	ug/l #	1
44) Trichloroethene	7.123	130	615326	362.028	ug/l	98
49) 1,4-Dioxane	7.672	88	933	22.807	ug/l #	75
51) 4-Methyl-2-Pentanone	8.653	43	1277	0.530	ug/l #	1
55) 1,1,2-Trichloroethane	9.159	97	433	0.253	ug/l #	81
60) Dibromochloromethane	9.275	129	4102	2.179	ug/l #	11
64) Tetrachloroethene	9.275	164	4471	2.818	ug/l	97
76) 1,2,3-Trichloropropane	11.079	75	55689	23.863	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	55689	54.086	ug/l #	5

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

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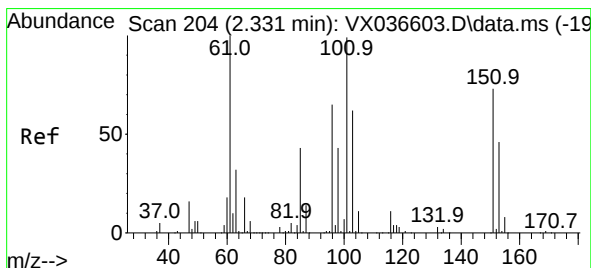
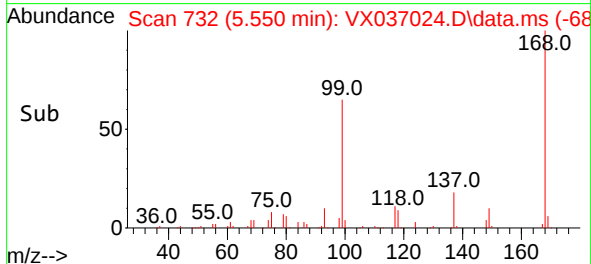
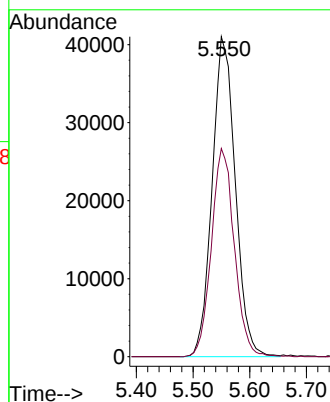
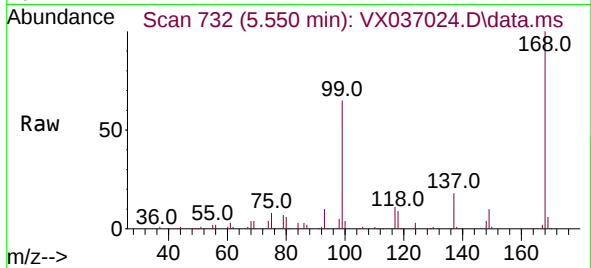




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

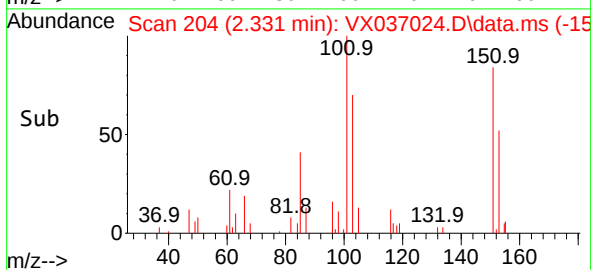
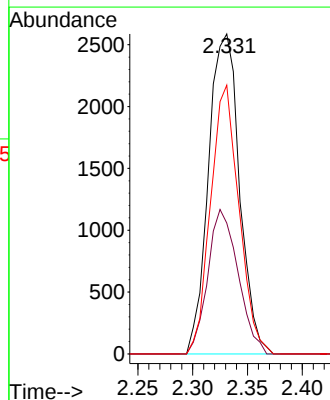
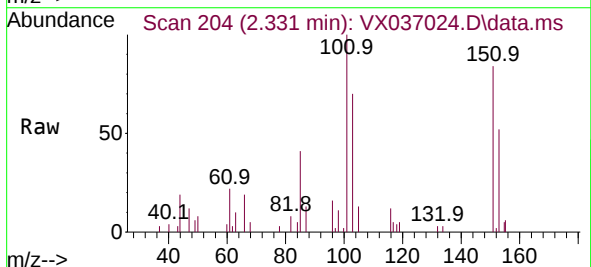
Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20230815

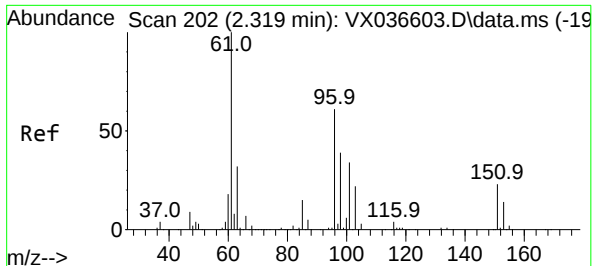
Tgt Ion:168 Resp: 116028
Ion Ratio Lower Upper
168 100
99 65.1 56.6 85.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.861 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Tgt Ion:101 Resp: 5084
Ion Ratio Lower Upper
101 100
85 44.1 37.0 55.6
151 77.2 58.6 87.8





#12

1,1-Dichloroethene

Concen: 1.054 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20230815

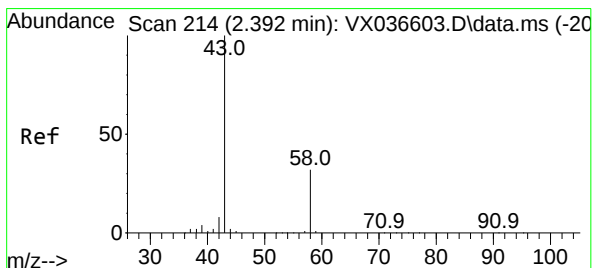
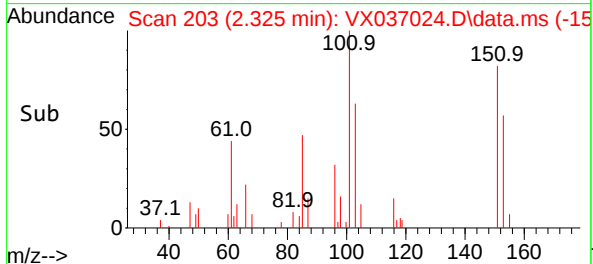
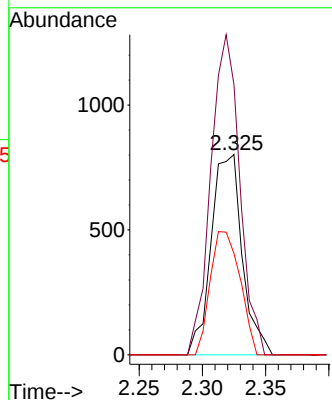
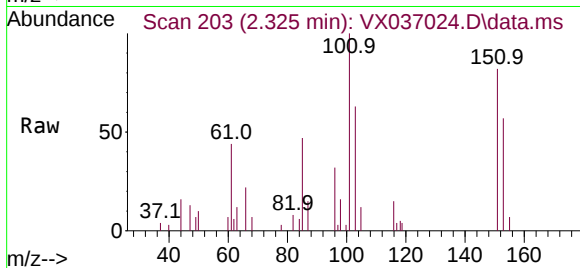
Tgt Ion: 96 Resp: 1369

Ion Ratio Lower Upper

96 100

61 134.9 144.6 216.8#

98 50.6 50.4 75.6



#16

Acetone

Concen: 2.306 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX037024.D

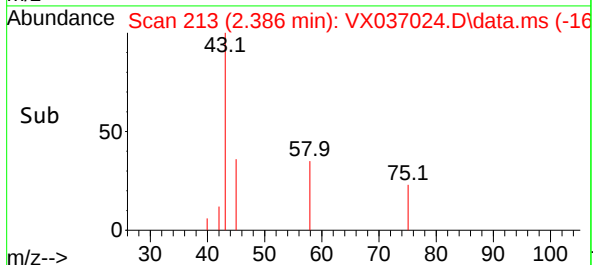
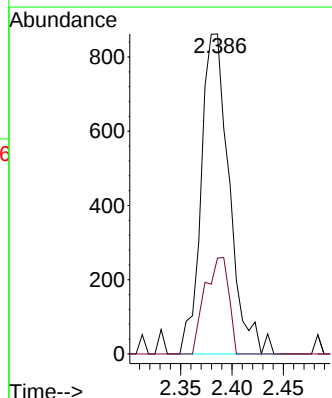
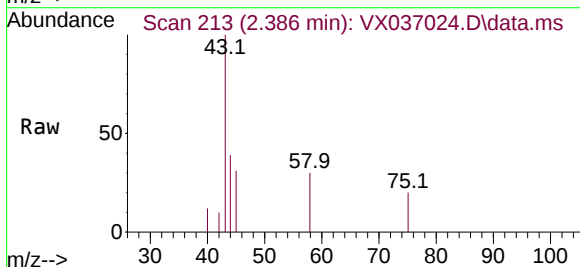
Acq: 16 Aug 2023 17:48

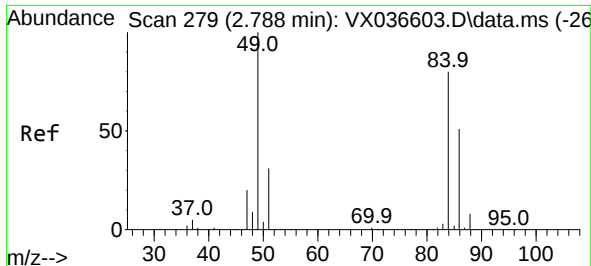
Tgt Ion: 43 Resp: 1643

Ion Ratio Lower Upper

43 100

58 29.9 21.9 32.9





#20

Methylene Chloride

Concen: 0.573 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20230815

Tgt Ion: 84 Resp: 908

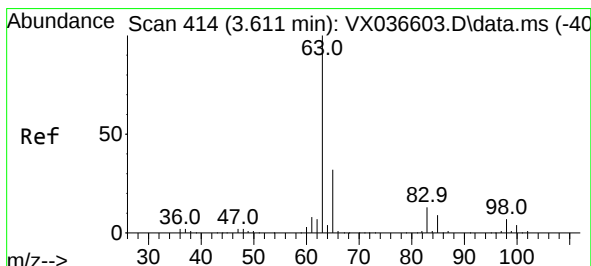
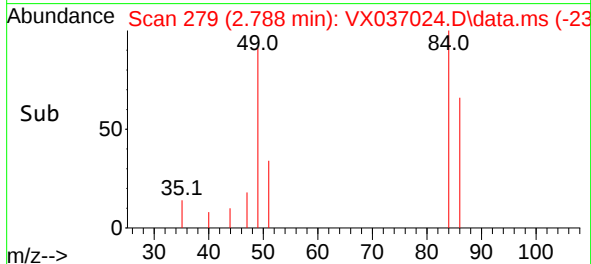
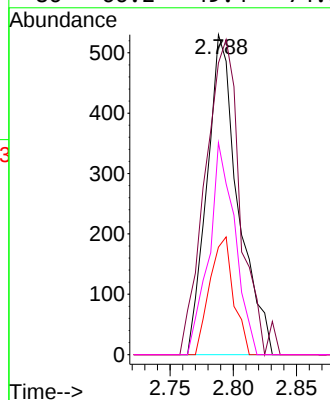
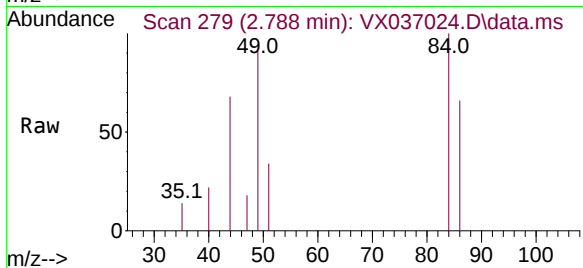
Ion Ratio Lower Upper

84 100

49 91.1 103.6 155.4#

51 33.6 33.8 50.6#

86 66.2 49.4 74.0



#24

1,1-Dichloroethane

Concen: 0.276 ug/l

RT: 3.617 min Scan# 415

Delta R.T. 0.006 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

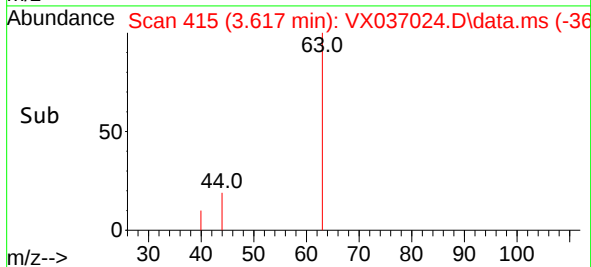
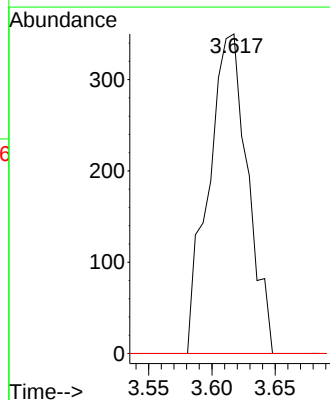
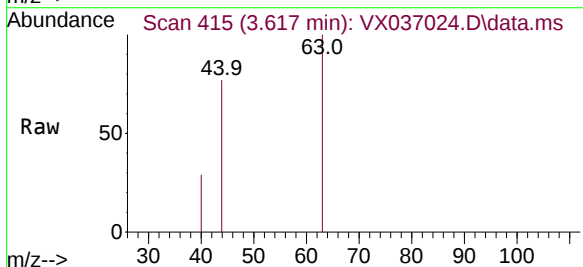
Tgt Ion: 63 Resp: 751

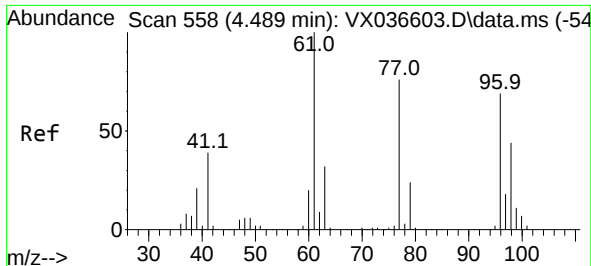
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 1.430 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20230815

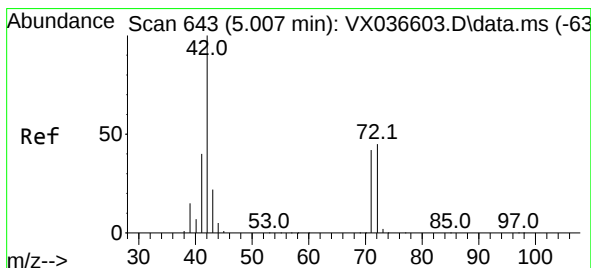
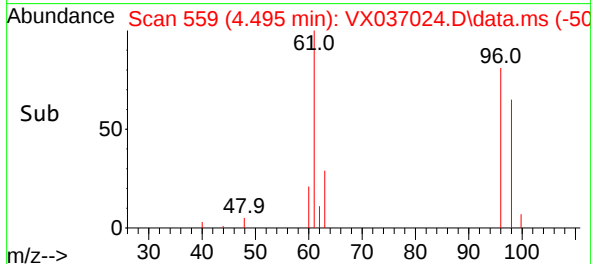
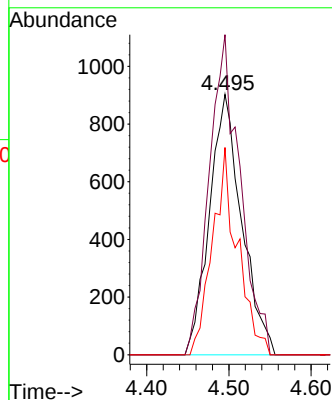
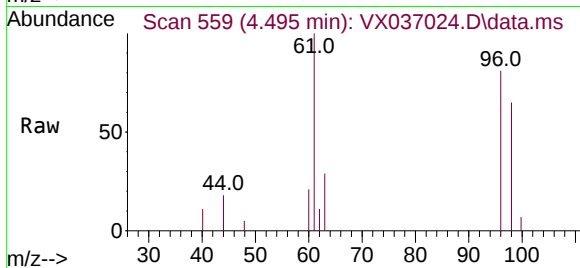
Tgt Ion: 96 Resp: 2467

Ion Ratio Lower Upper

96 100

61 117.2 0.0 312.2

98 61.9 0.0 129.0



#29

Tetrahydrofuran

Concen: 0.243 ug/l

RT: 5.050 min Scan# 650

Delta R.T. 0.043 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

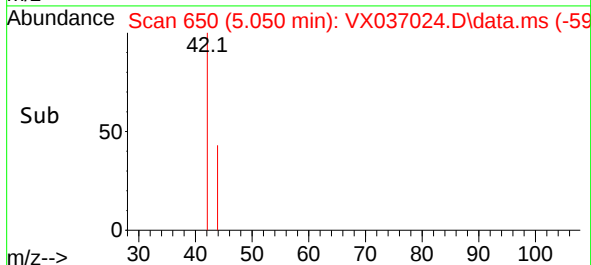
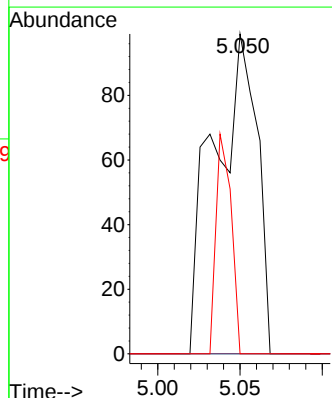
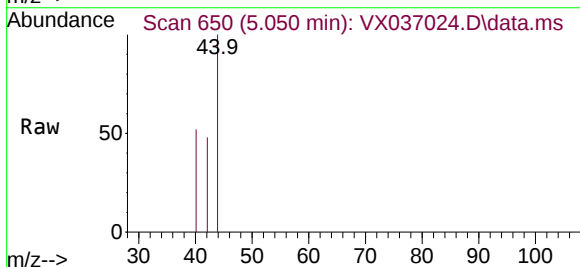
Tgt Ion: 42 Resp: 181

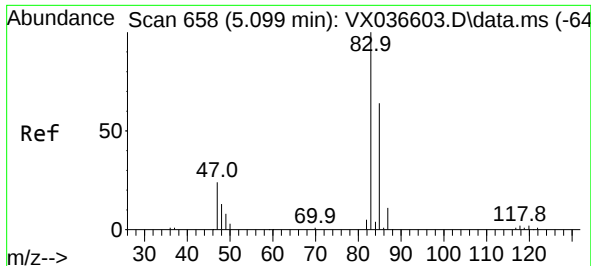
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 24.3 32.2 48.2#





#30

Chloroform

Concen: 0.337 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

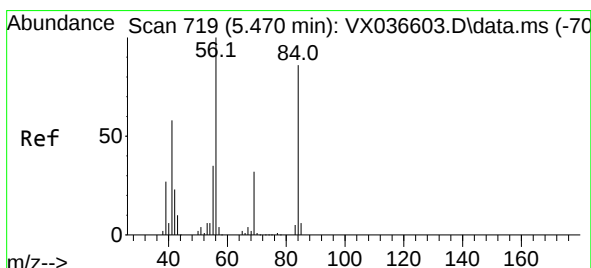
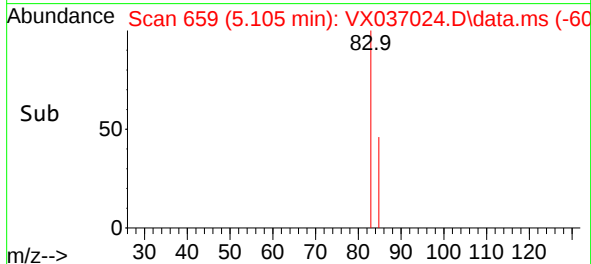
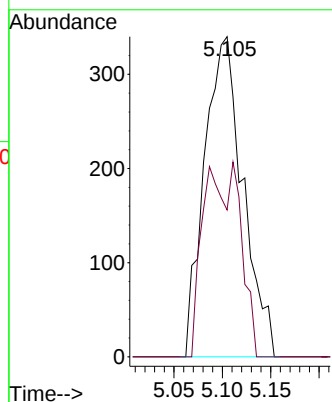
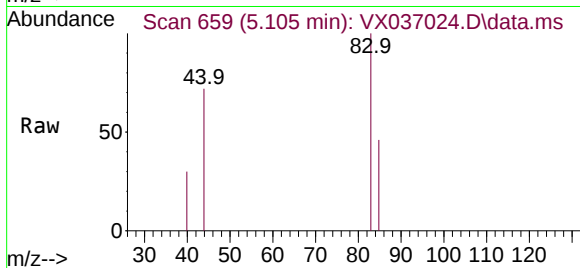
RE103D1-20230815

Tgt Ion: 83 Resp: 940

Ion Ratio Lower Upper

83 100

85 45.9 50.3 75.5#



#31

Cyclohexane

Concen: 1.075 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

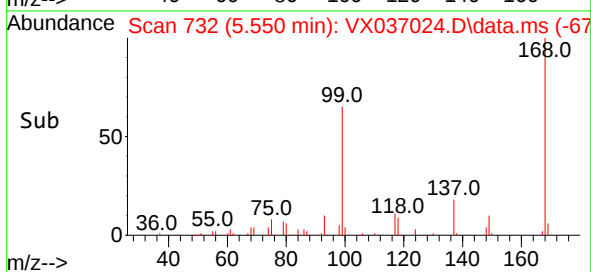
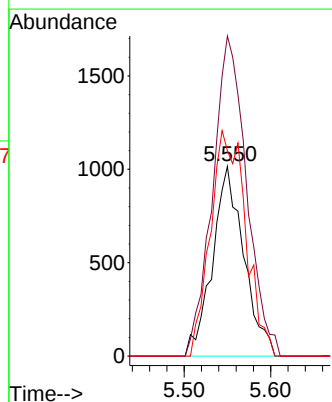
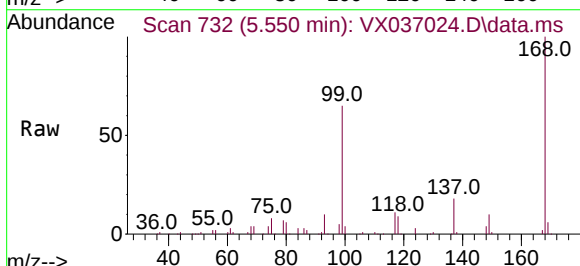
Tgt Ion: 56 Resp: 2555

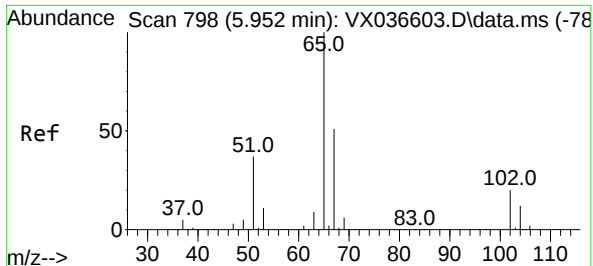
Ion Ratio Lower Upper

56 100

69 168.7 23.4 35.2#

84 108.3 65.9 98.9#

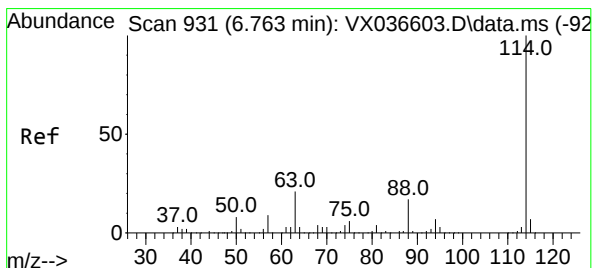
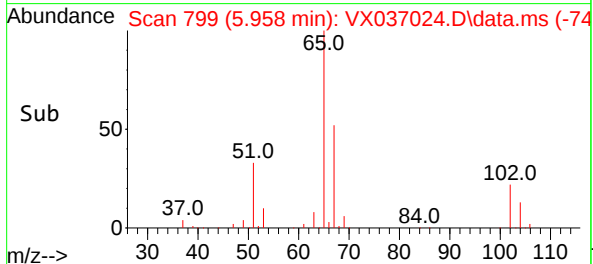
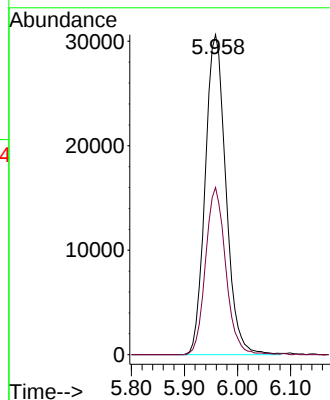
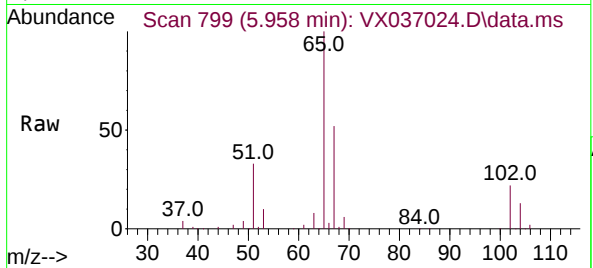




#33
 1,2-Dichloroethane-d4
 Concen: 48.358 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.006 min
 Lab File: VX037024.D
 Acq: 16 Aug 2023 17:48

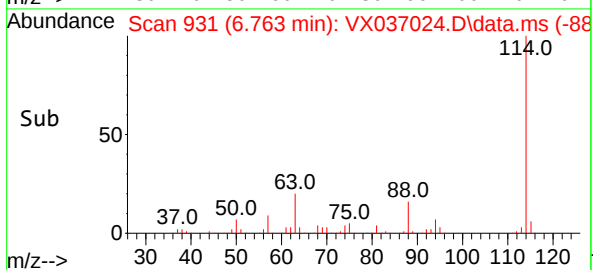
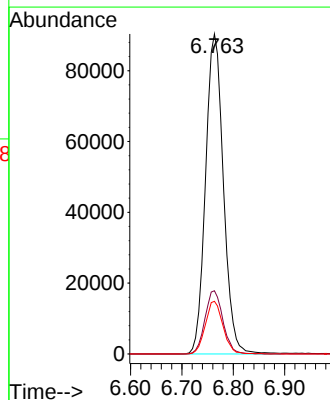
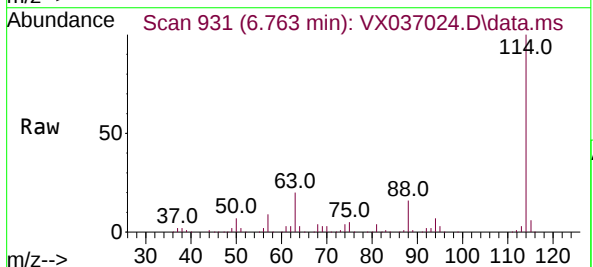
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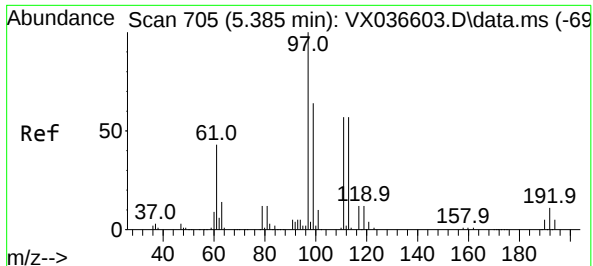
Tgt Ion: 65 Resp: 83022
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX037024.D
 Acq: 16 Aug 2023 17:48

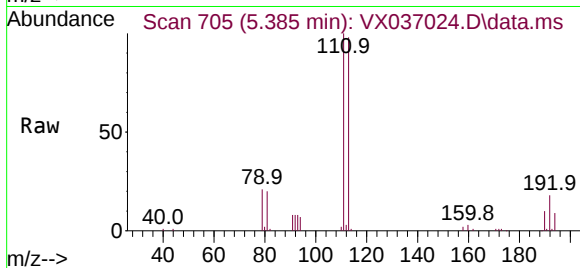
Tgt Ion: 114 Resp: 218153
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 45.0
 88 16.5 0.0 36.6



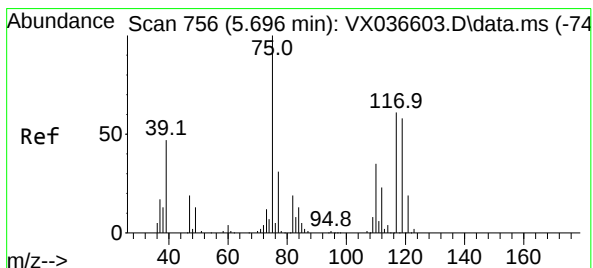
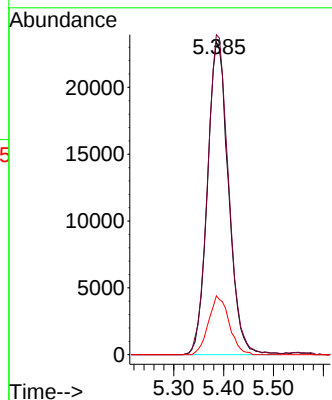
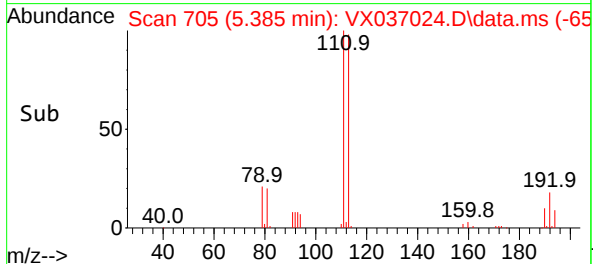


#35
Dibromofluoromethane
Concen: 45.734 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20230815

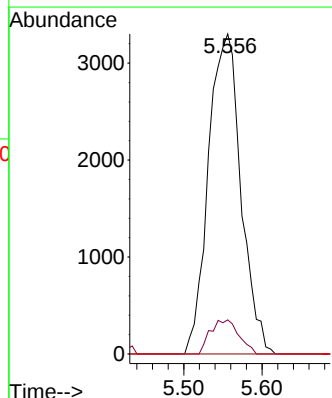
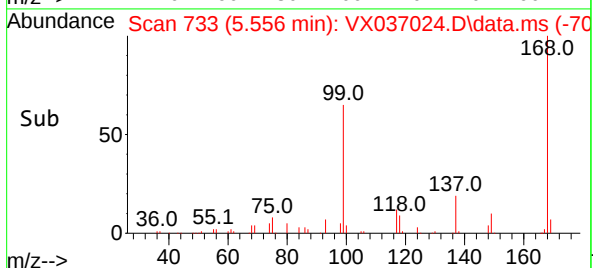
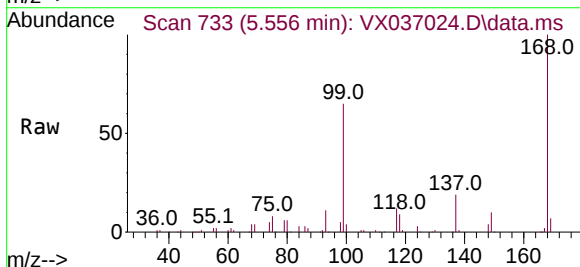


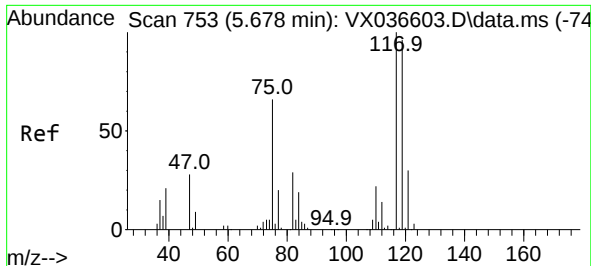
Tgt Ion:113 Resp: 68576
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 18.4 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.259 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Tgt Ion: 75 Resp: 9518
Ion Ratio Lower Upper
75 100
110 9.4 17.0 50.9#
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.300 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.122 min

Lab File: VX037024.D

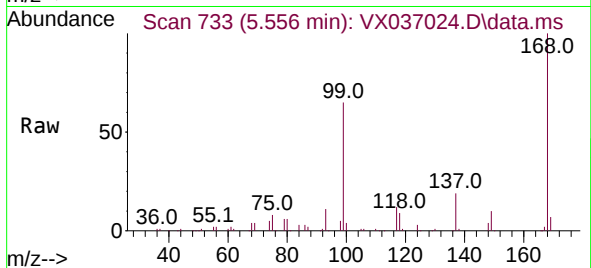
Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20230815



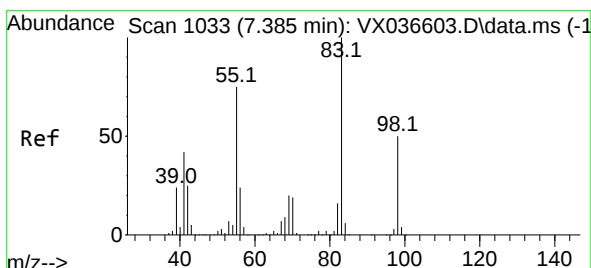
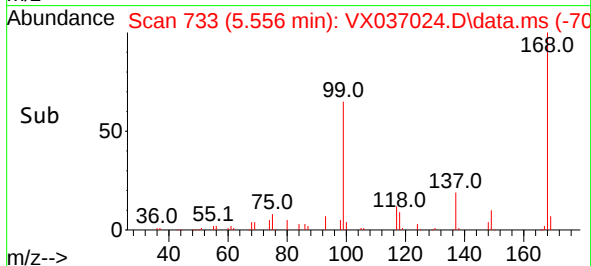
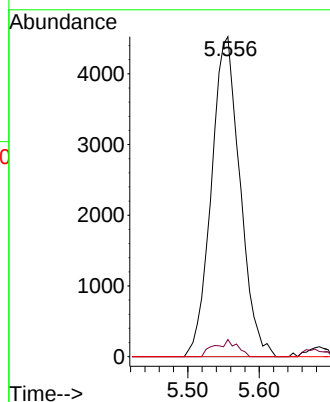
Tgt Ion:117 Resp: 12594

Ion Ratio Lower Upper

117 100

119 5.3 78.2 117.2#

121 0.0 24.4 36.6#



#39

Methylcyclohexane

Concen: 2.620 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.256 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

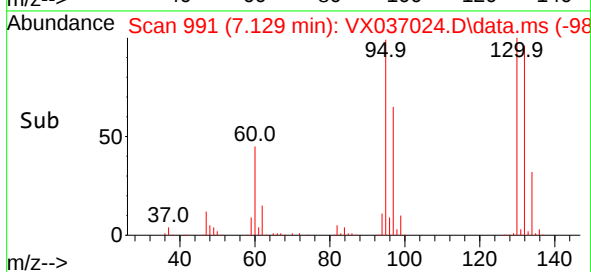
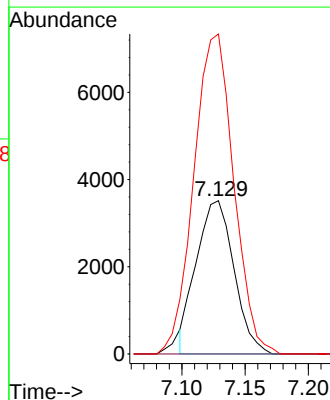
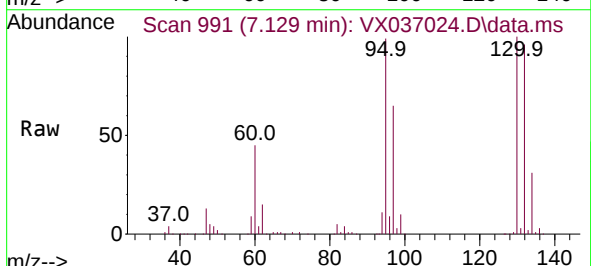
Tgt Ion: 83 Resp: 7282

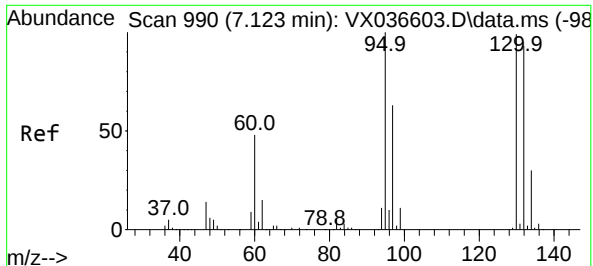
Ion Ratio Lower Upper

83 100

55 0.0 64.6 97.0#

98 208.7 36.7 55.1#

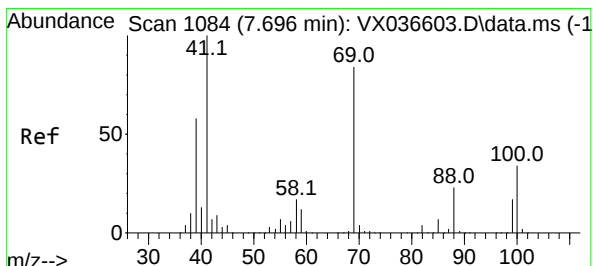
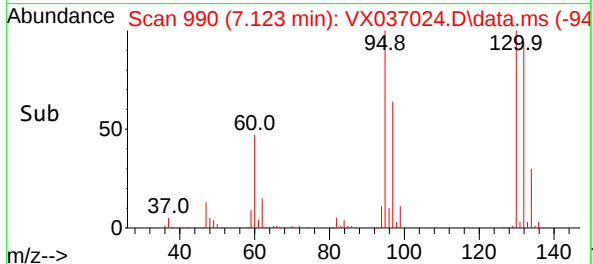
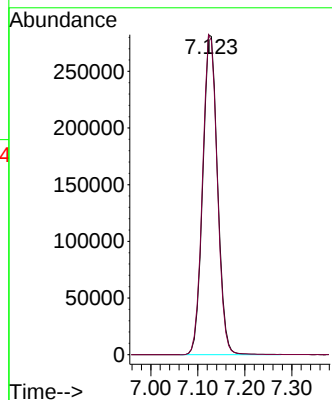
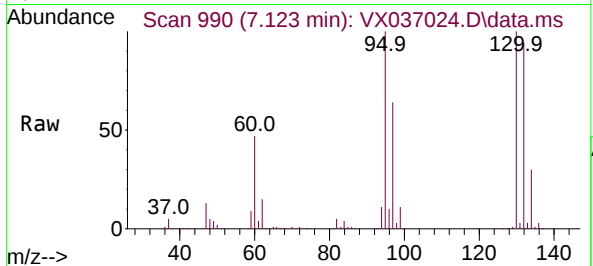




#44
Trichloroethene
Concen: 362.028 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

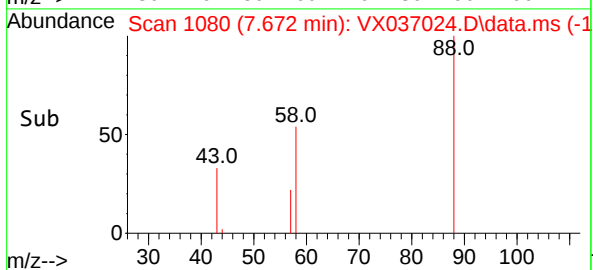
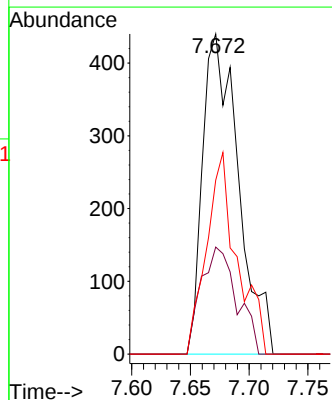
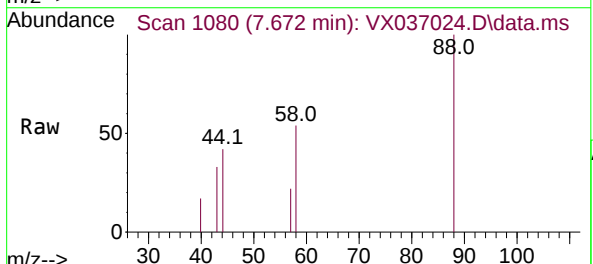
Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20230815

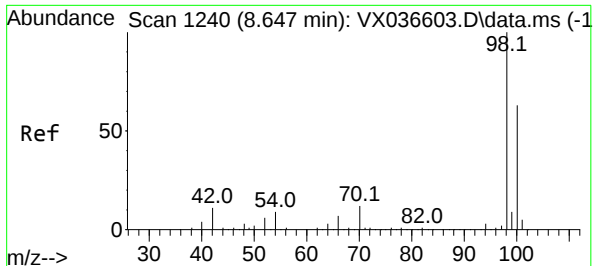
Tgt Ion:130 Resp: 615326
Ion Ratio Lower Upper
130 100
95 99.9 0.0 204.4



#49
1,4-Dioxane
Concen: 22.807 ug/l
RT: 7.672 min Scan# 1080
Delta R.T. -0.024 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Tgt Ion: 88 Resp: 933
Ion Ratio Lower Upper
88 100
43 33.4 0.0 0.0#
58 53.6 60.1 90.1#





#50

Toluene-d8

Concen: 49.233 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

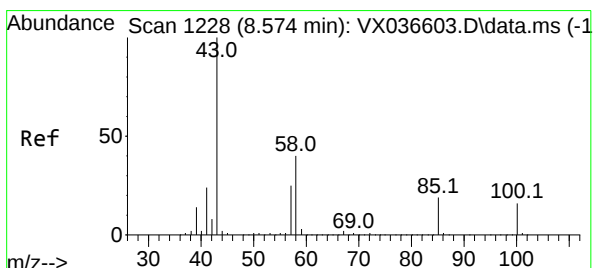
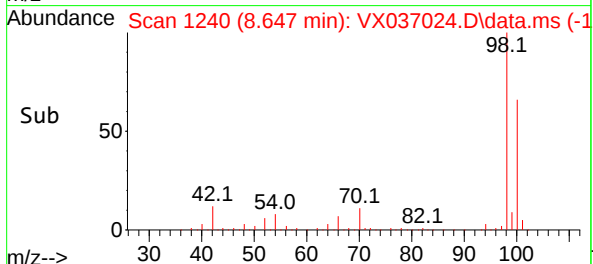
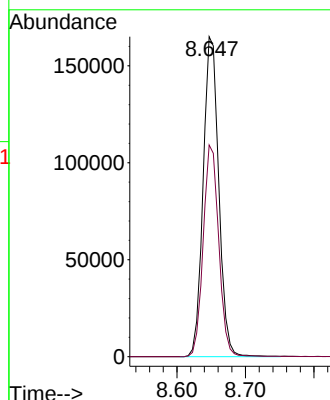
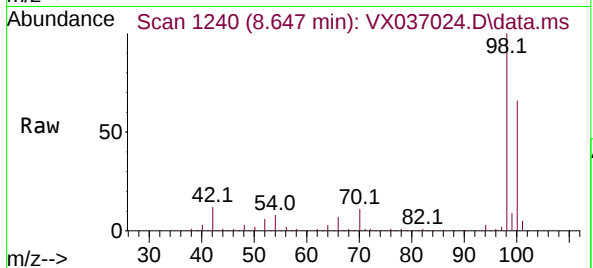
RE103D1-20230815

Tgt Ion: 98 Resp: 261791

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.530 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.079 min

Lab File: VX037024.D

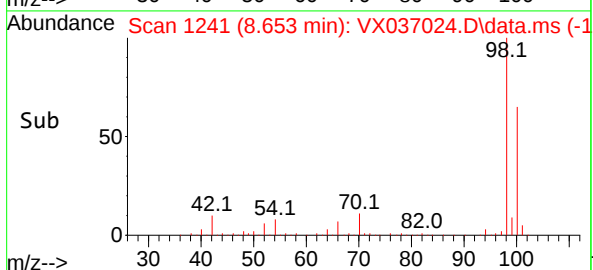
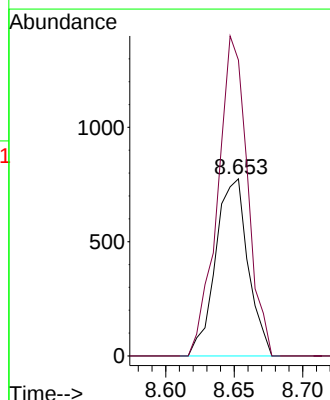
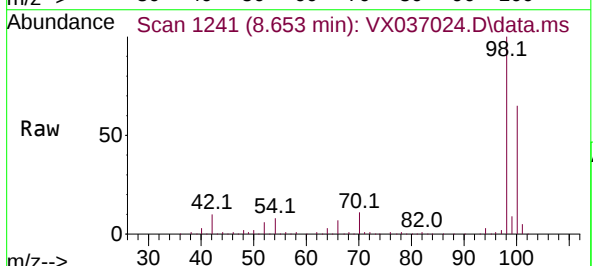
Acq: 16 Aug 2023 17:48

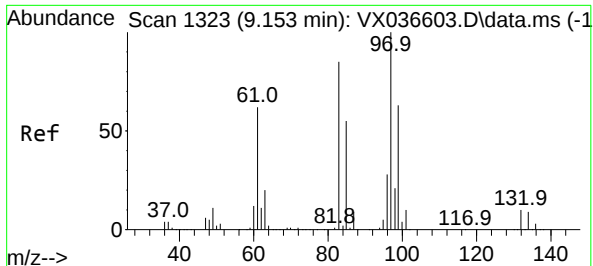
Tgt Ion: 43 Resp: 1277

Ion Ratio Lower Upper

43 100

58 166.3 30.4 45.6#





#55

1,1,2-Trichloroethane

Concen: 0.253 ug/l

RT: 9.159 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20230815

Tgt Ion: 97 Resp: 433

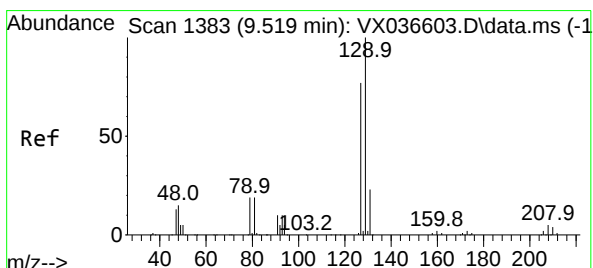
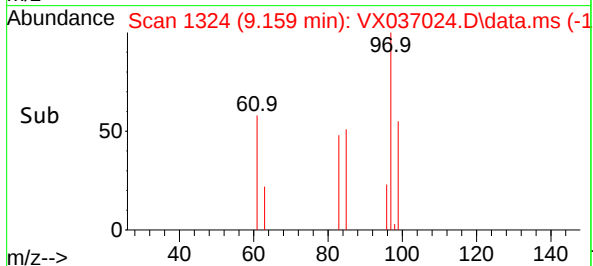
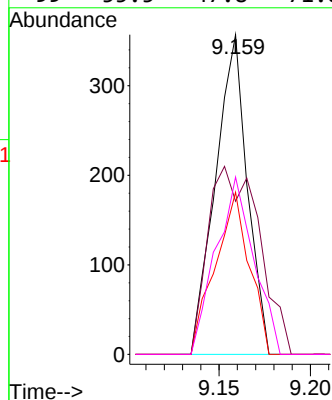
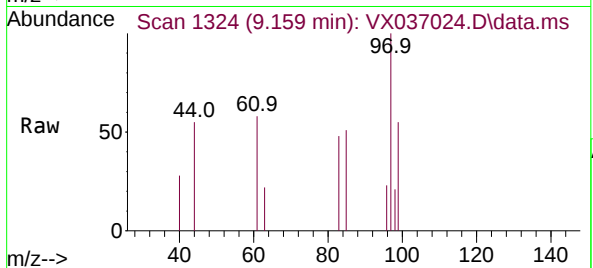
Ion Ratio Lower Upper

97 100

83 47.9 65.8 98.8#

85 50.7 41.6 62.4

99 55.5 47.8 71.8



#60

Dibromochloromethane

Concen: 2.179 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX037024.D

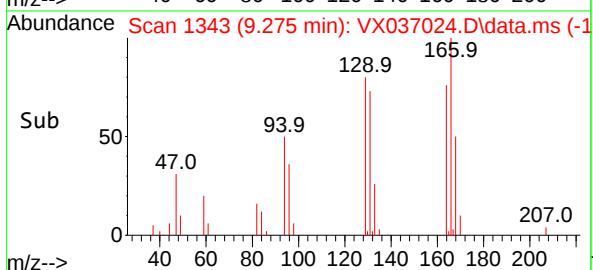
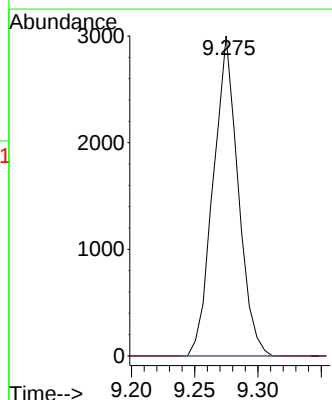
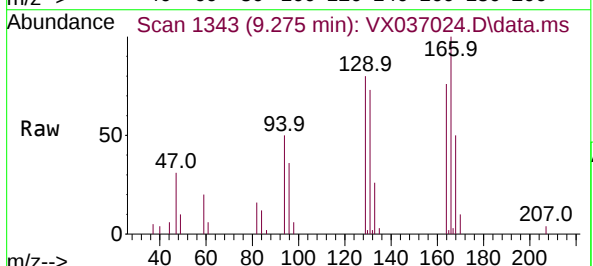
Acq: 16 Aug 2023 17:48

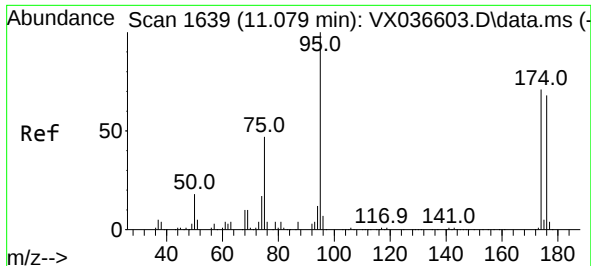
Tgt Ion: 129 Resp: 4102

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#





#62

4-Bromofluorobenzene

Concen: 53.157 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX037024.D

Acq: 16 Aug 2023 17:48

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20230815

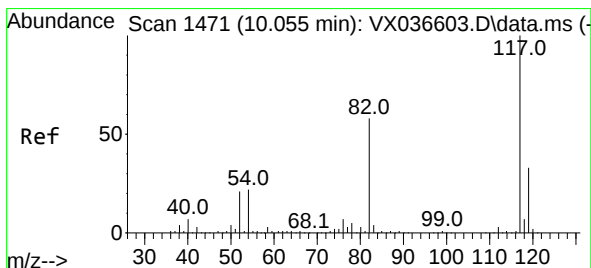
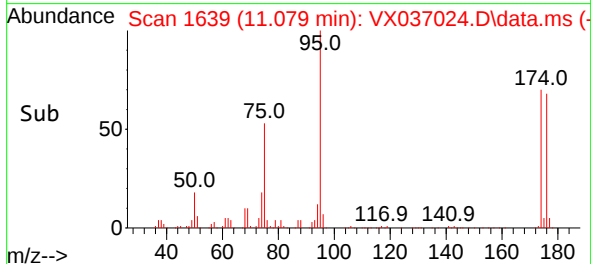
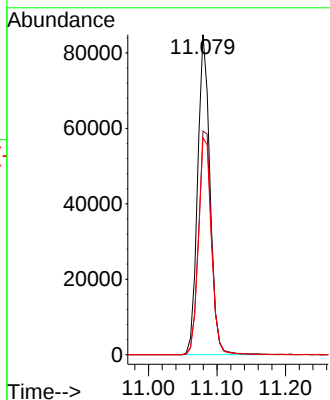
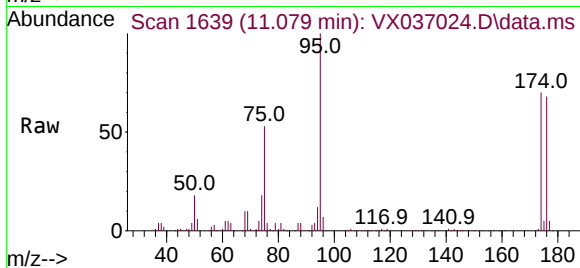
Tgt Ion: 95 Resp: 106642

Ion Ratio Lower Upper

95 100

174 73.6 0.0 135.6

176 70.7 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: VX037024.D

Acq: 16 Aug 2023 17:48

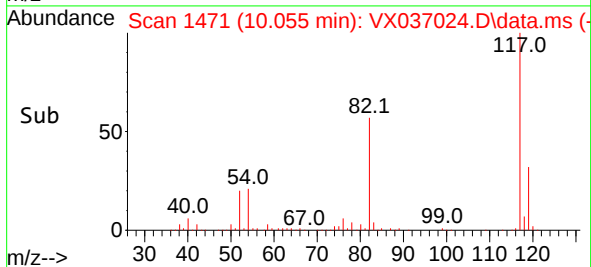
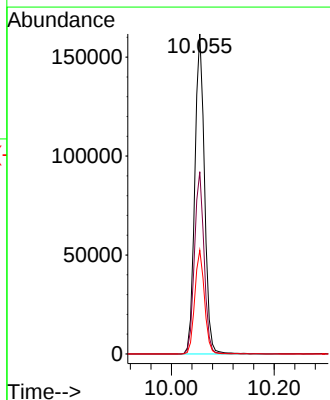
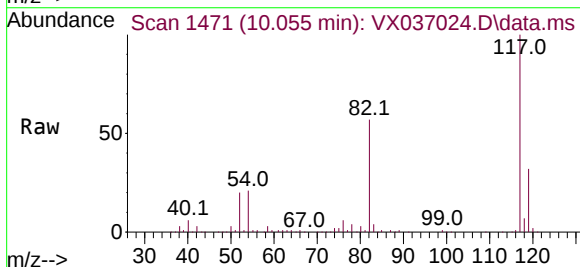
Tgt Ion: 117 Resp: 212703

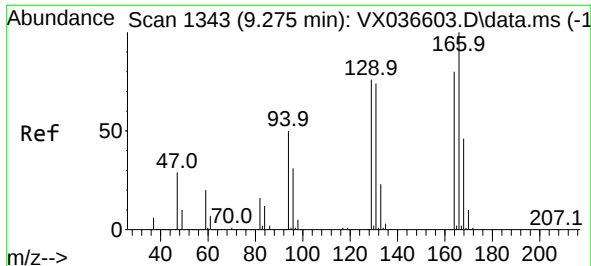
Ion Ratio Lower Upper

117 100

82 57.0 46.2 69.4

119 32.4 25.5 38.3



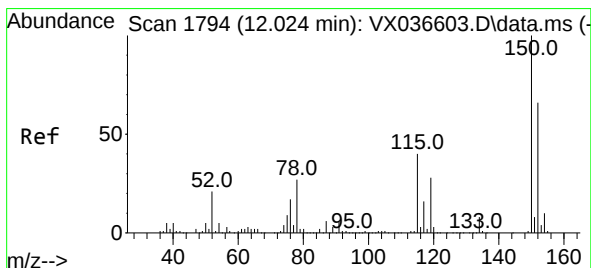
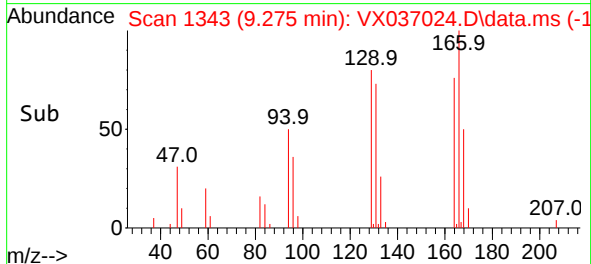
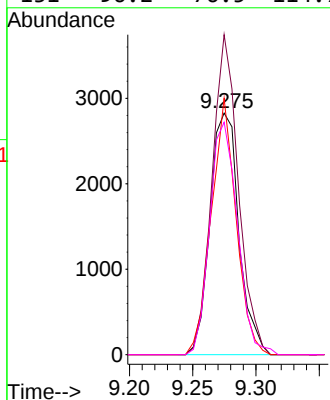
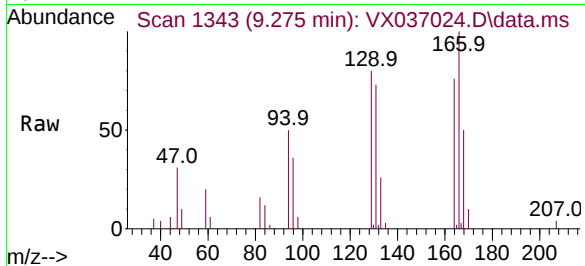


#64
Tetrachloroethene
Concen: 2.818 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20230815

Tgt Ion:164 Resp: 4471

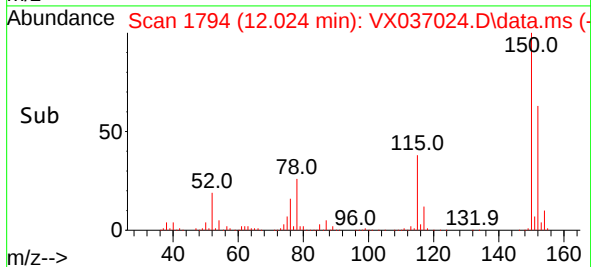
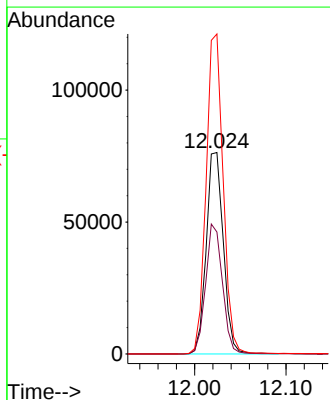
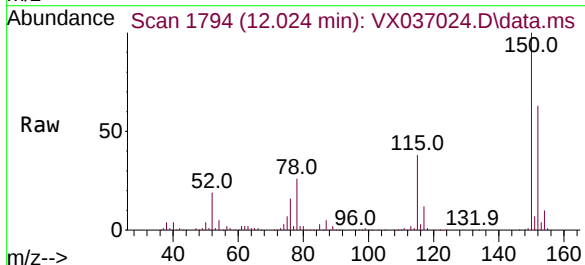
Ion	Ratio	Lower	Upper
164	100		
166	132.4	102.7	154.1
129	106.1	80.4	120.6
131	96.2	76.5	114.7

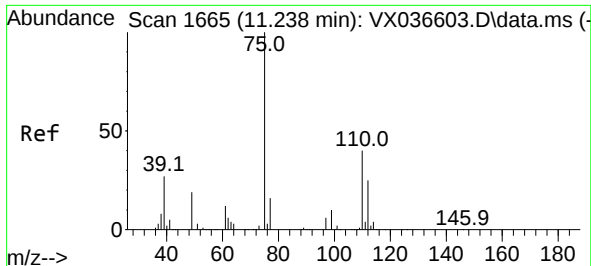


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Tgt Ion:152 Resp: 99219

Ion	Ratio	Lower	Upper
152	100		
115	63.2	43.3	129.9
150	158.2	0.0	345.0

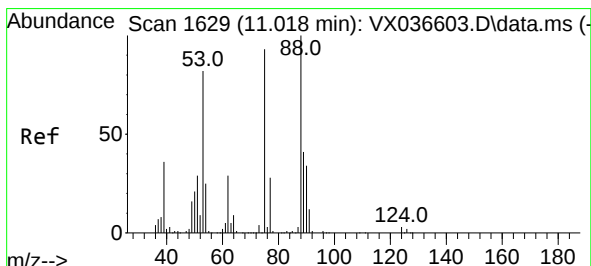
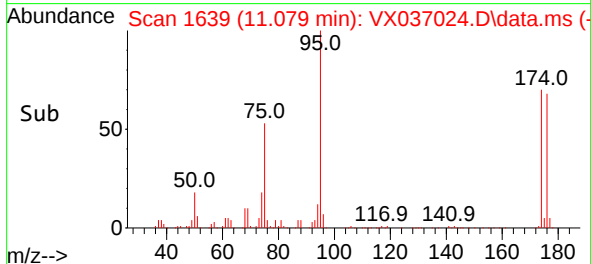
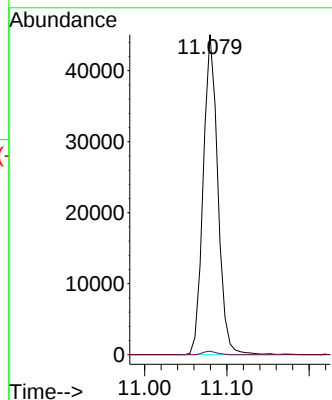
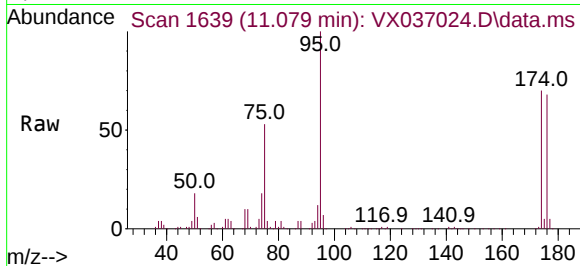




#76
1,2,3-Trichloropropane
Concen: 23.863 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20230815

Tgt Ion: 75 Resp: 55689
Ion Ratio Lower Upper
75 100
77 1.0 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.086 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX037024.D
Acq: 16 Aug 2023 17:48

Tgt Ion: 75 Resp: 55689
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

