

Data File : VX013907.D
Acq On : 10 Dec 2019 18:43
Operator : JC/SP
Sample : K6196-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-4

Quant Time: Dec 11 02:29:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	582327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	897692	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	801802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345097	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	325202	48.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.22%	
35) Dibromofluoromethane	5.49	113	268300	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
50) Toluene-d8	8.71	98	1055891	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.14	95	353134	45.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.58%	

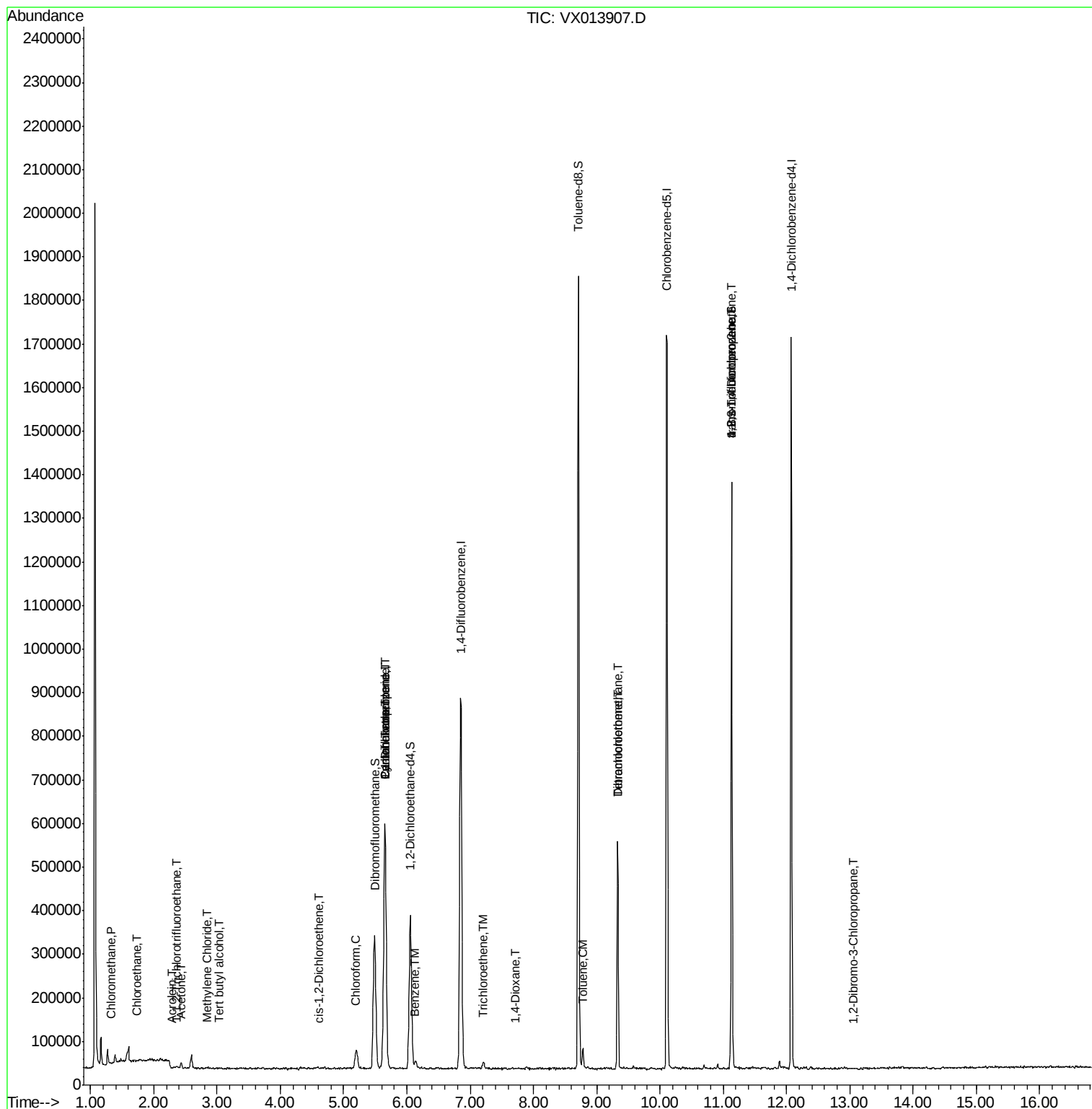
Target Compounds						Qvalue
3) Chloromethane	1.31	50	2389	0.328	ug/l #	73
6) Chloroethane	1.73	64	1346	0.289	ug/l #	48
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1692	0.305	ug/l #	78
11) Tert butyl alcohol	3.03	59	2238	1.341	ug/l #	90
13) Acrolein	2.28	56	352	6.312	ug/l #	15
16) Acetone	2.43	43	15817	4.740	ug/l	93
20) Methylene Chloride	2.85	84	3000	0.468	ug/l #	73
27) cis-1,2-Dichloroethene	4.61	96	2098	0.303	ug/l	85
30) Chloroform	5.20	83	53385	4.972	ug/l	96
31) Cyclohexane	5.65	56	10723	1.074	ug/l #	15
36) 1,1-Dichloropropene	5.65	75	41481	5.090	ug/l #	53
38) Carbon Tetrachloride	5.65	117	50380	6.705	ug/l #	16
40) Benzene	6.14	78	21125	0.851	ug/l	98
44) Trichloroethene	7.21	130	6942	1.019	ug/l	89
49) 1,4-Dioxane	7.70	88	185	1.130	ug/l #	1
52) Toluene	8.78	92	18082	1.173	ug/l	99
60) Dibromochloromethane	9.33	129	91223	14.147	ug/l #	11
64) Tetrachloroethene	9.33	164	102542	17.149	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	169418	21.827	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	169418	59.715	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.06	75	537	0.294	ug/l	61

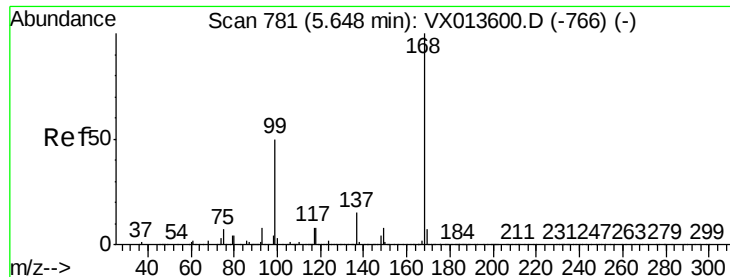
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

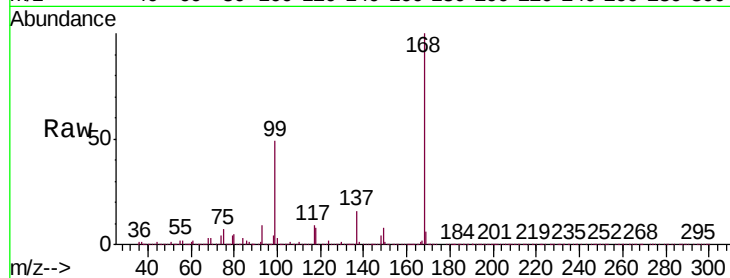
TW-4

Tgt Ion:168 Resp: 582327

Ion Ratio Lower Upper

168 100

99 48.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

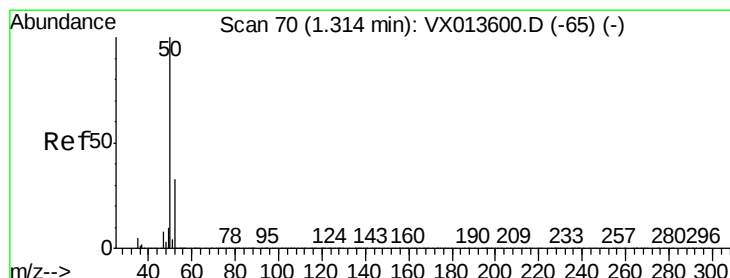
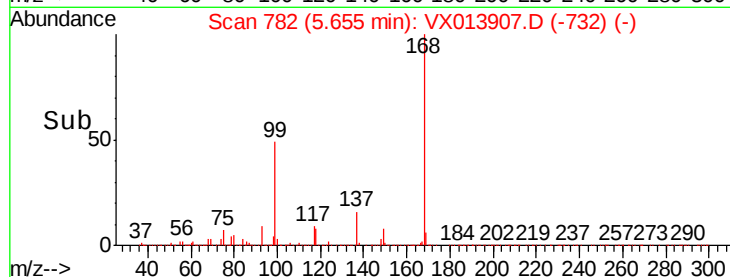
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.328 ug/l

RT: 1.31 min Scan# 70

Delta R.T. 0.00 min

Lab File: VX013907.D

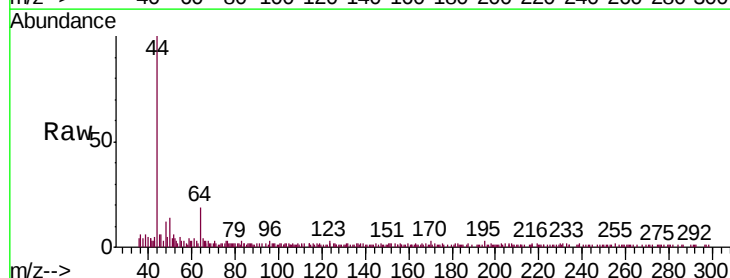
Acq: 10 Dec 2019 18:43

Tgt Ion: 50 Resp: 2389

Ion Ratio Lower Upper

50 100

52 47.6 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

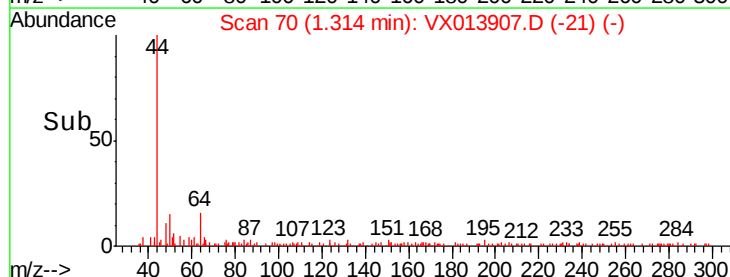
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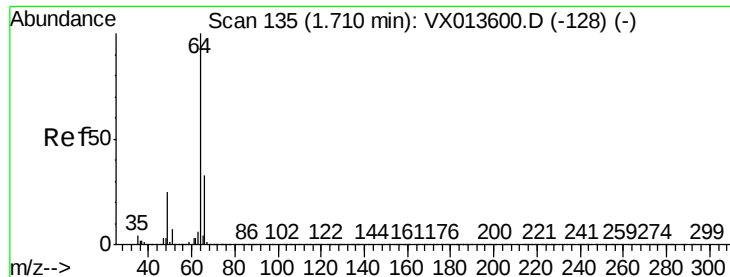
500

0

Time-->

1.25 1.30 1.35





#6

Chloroethane

Concen: 0.289 ug/l

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampled :

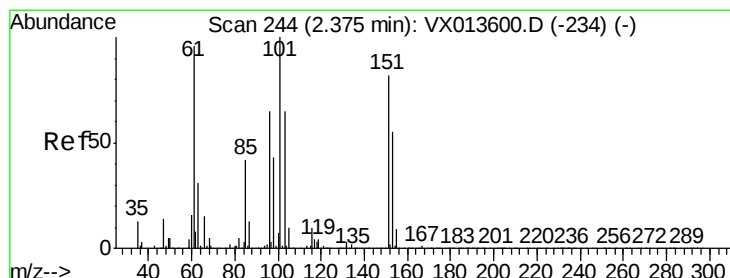
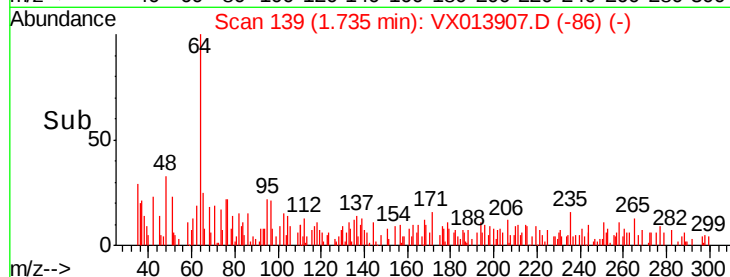
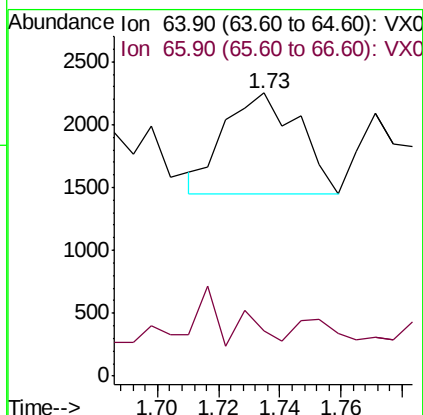
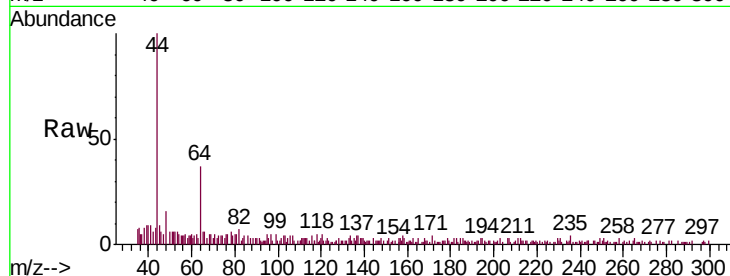
TW-4

Tgt Ion: 64 Resp: 1346

Ion Ratio Lower Upper

64 100

66 3.9 26.7 40.1#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.305 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

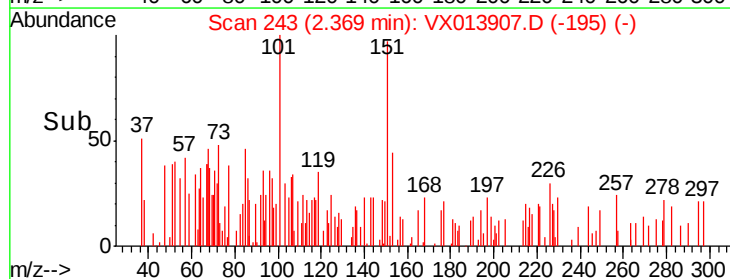
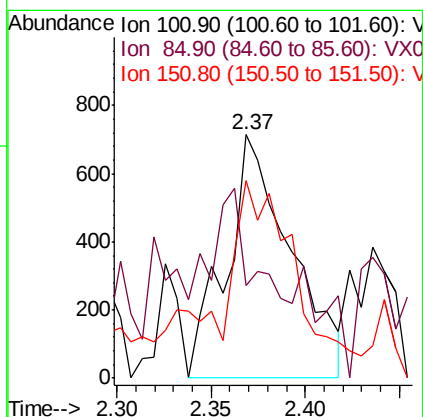
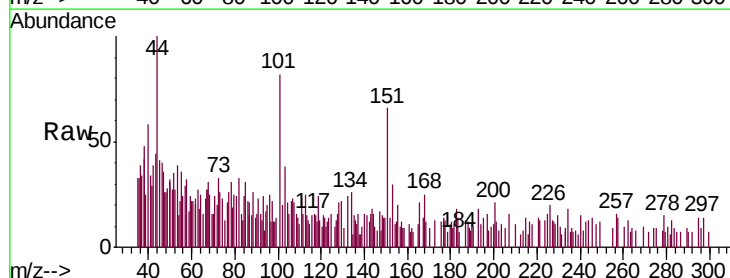
Tgt Ion: 101 Resp: 1692

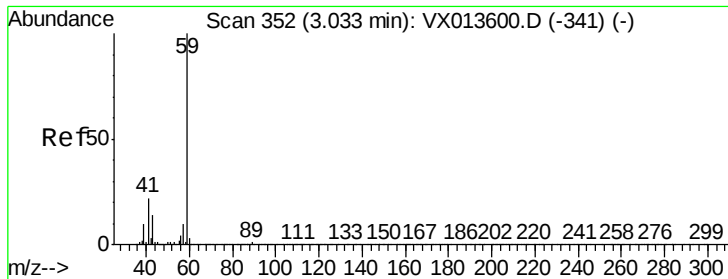
Ion Ratio Lower Upper

101 100

85 27.2 33.9 50.9#

151 61.9 64.2 96.2#

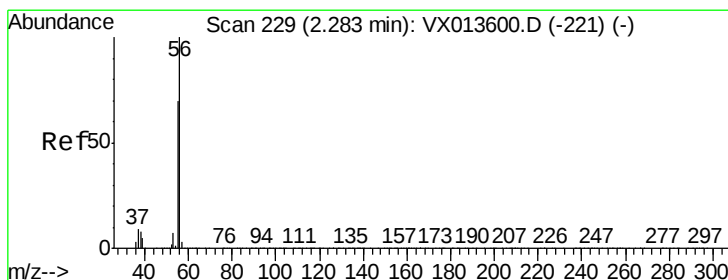
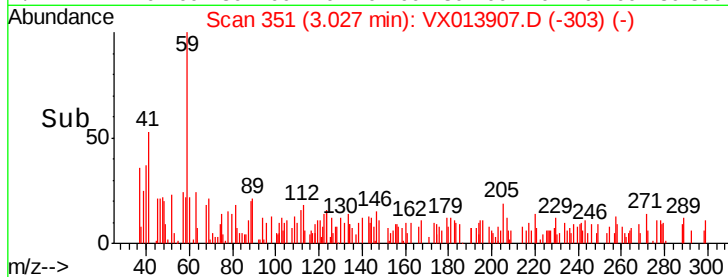
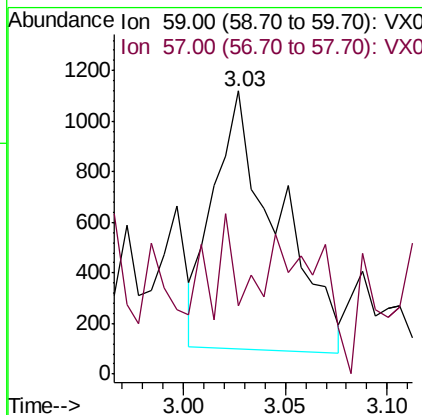
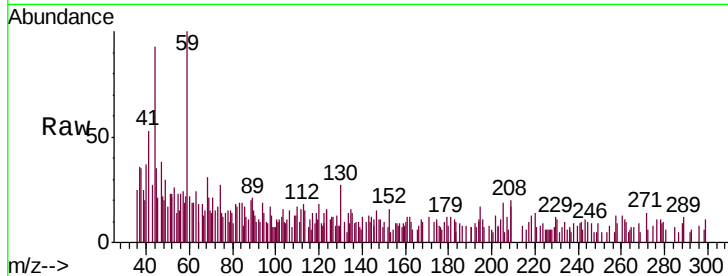




#11
Tert butyl alcohol
Concen: 1.341 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

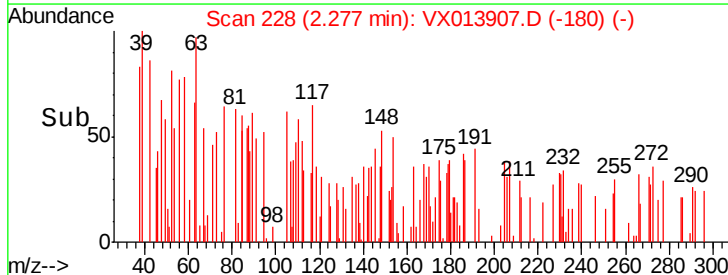
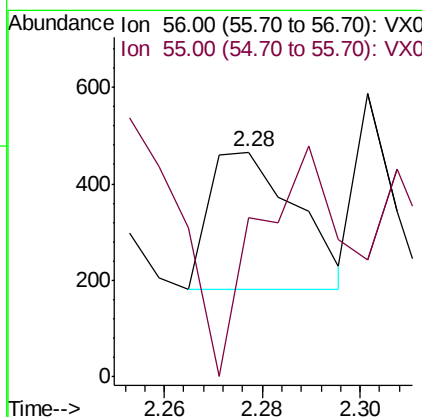
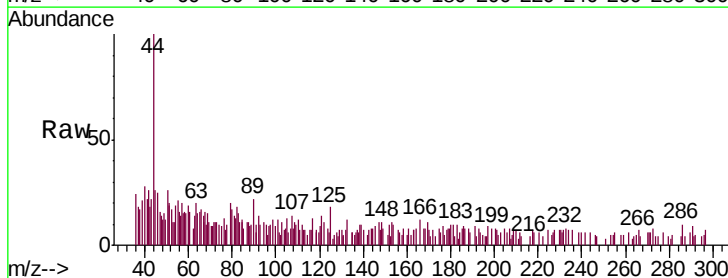
Instrument :
MSVOA_X
ClientSampled :
TW-4

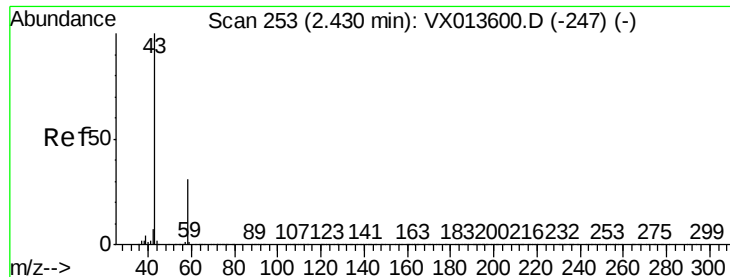
Tgt Ion: 59 Resp: 2238
Ion Ratio Lower Upper
59 100
57 6.0 7.8 11.6#



#13
Acrolein
Concen: 6.312 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

Tgt Ion: 56 Resp: 352
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#





#16

Acetone

Concen: 4.740 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

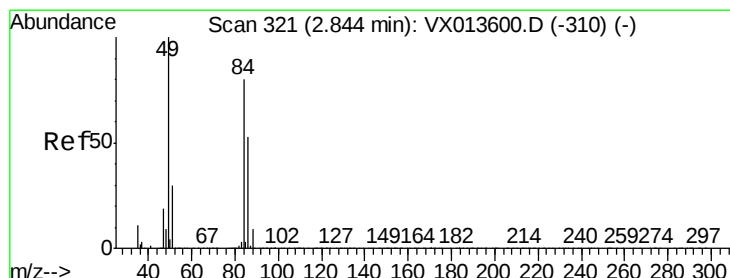
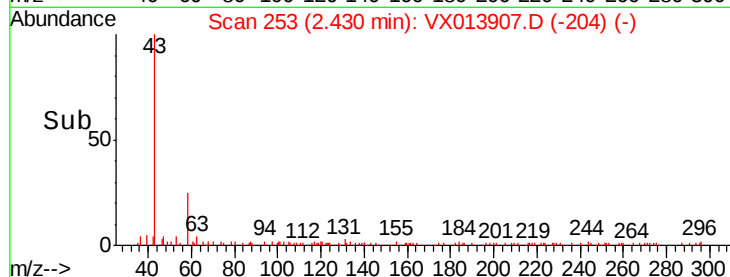
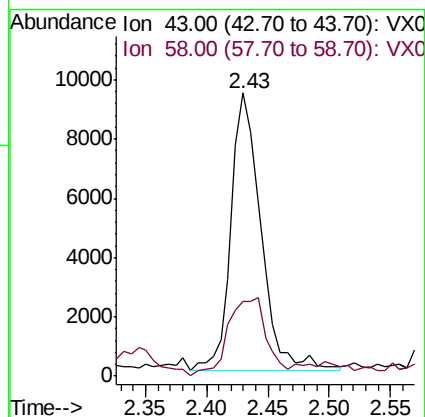
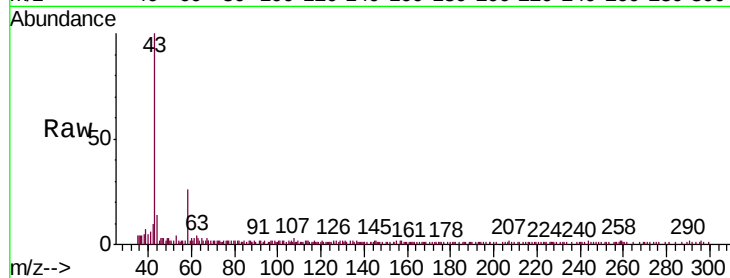
TW-4

Tgt Ion: 43 Resp: 15817

Ion Ratio Lower Upper

43 100

58 27.0 24.6 36.8



#20

Methylene Chloride

Concen: 0.468 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Tgt Ion: 84 Resp: 3000

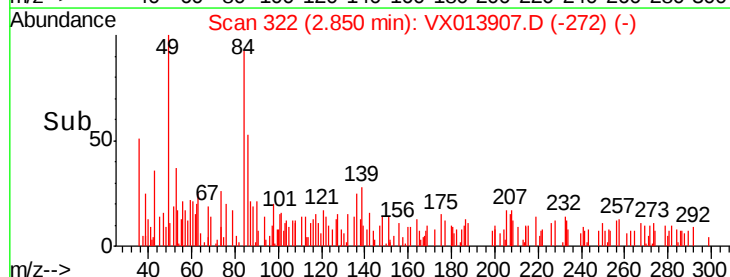
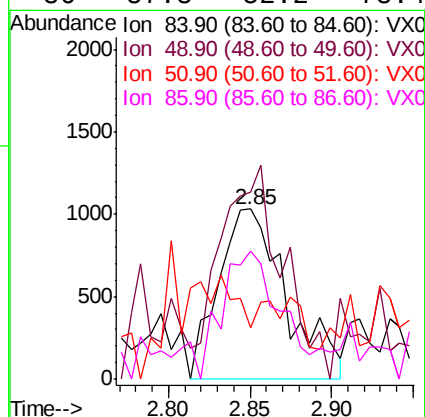
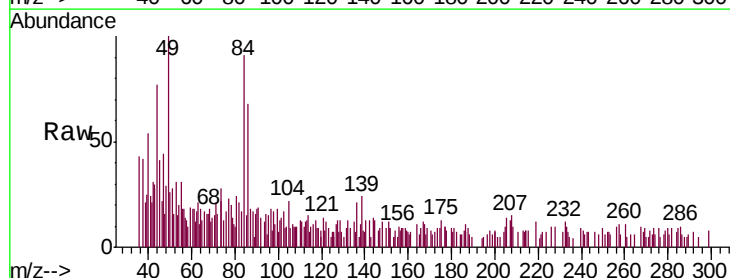
Ion Ratio Lower Upper

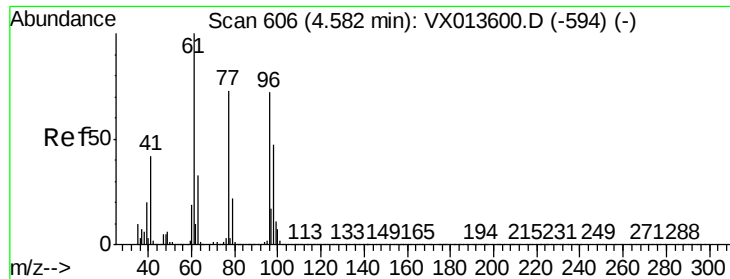
84 100

49 91.6 99.7 149.5#

51 6.1 29.9 44.9#

86 57.8 52.2 78.4



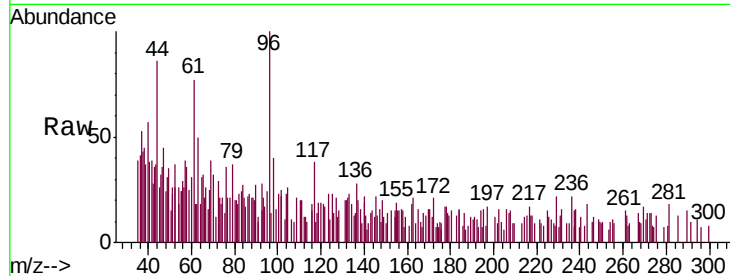


#27

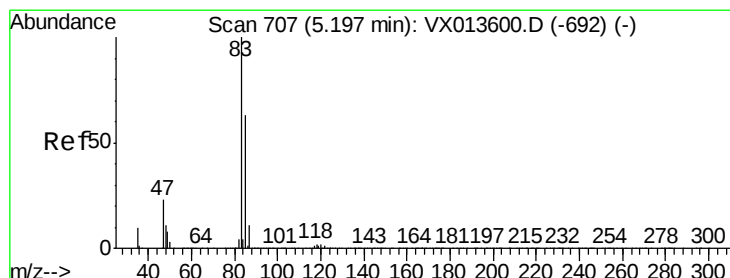
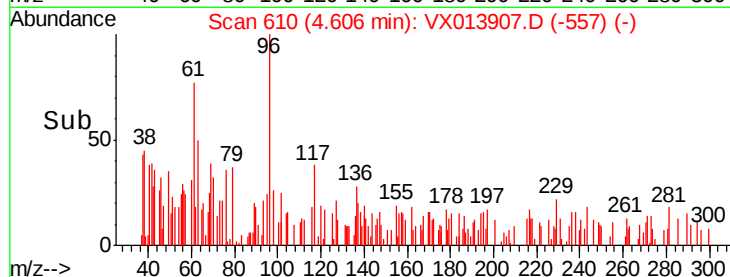
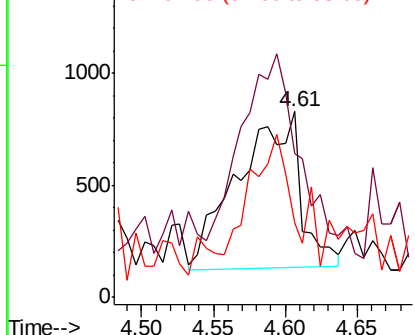
cis-1,2-Dichloroethene
Concen: 0.303 ug/l
RT: 4.61 min Scan# 610
Delta R.T. 0.02 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

Instrument :
MSVOA_X
ClientSampleId :
TW-4

Tgt Ion: 96 Resp: 2098
Ion Ratio Lower Upper
96 100
61 131.5 0.0 286.4
98 43.2 0.0 127.4



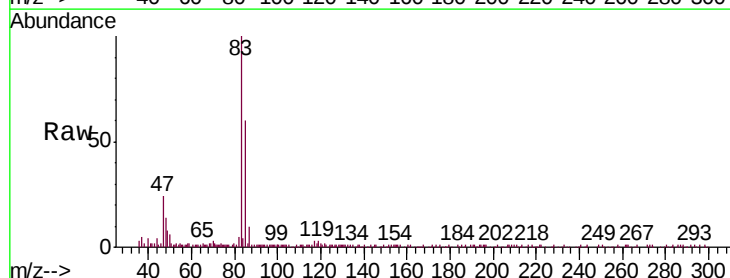
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



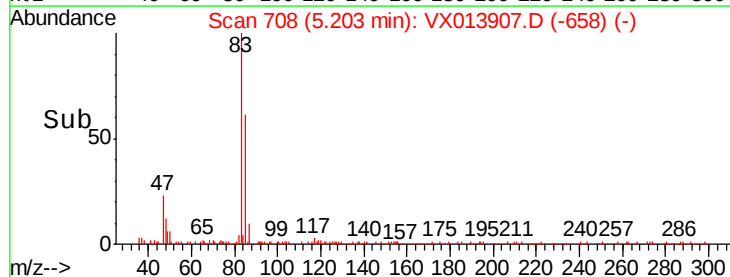
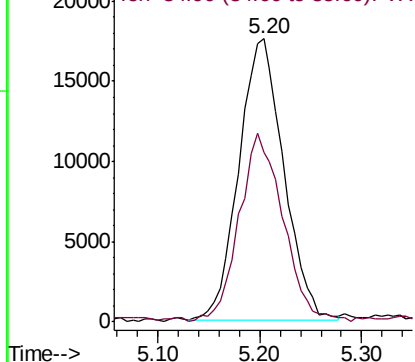
#30

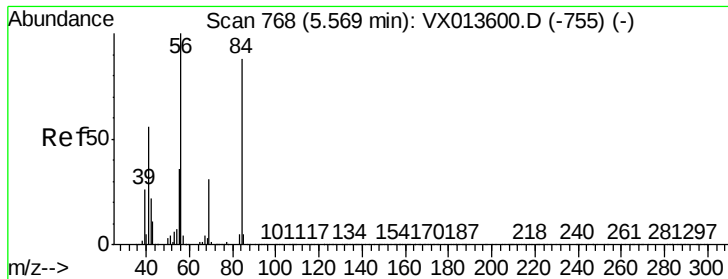
Chloroform
Concen: 4.972 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

Tgt Ion: 83 Resp: 53385
Ion Ratio Lower Upper
83 100
85 59.9 50.2 75.4



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

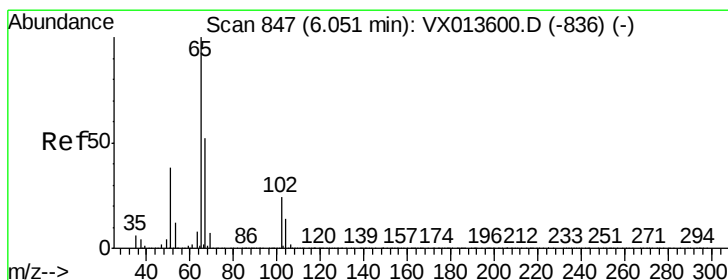
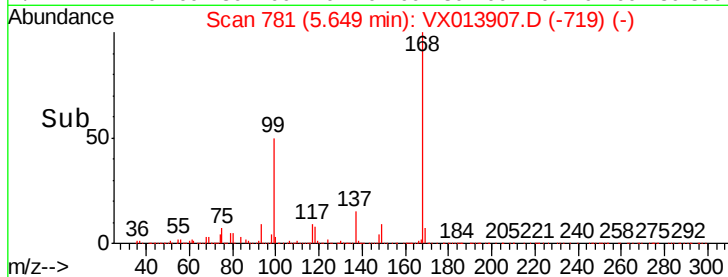
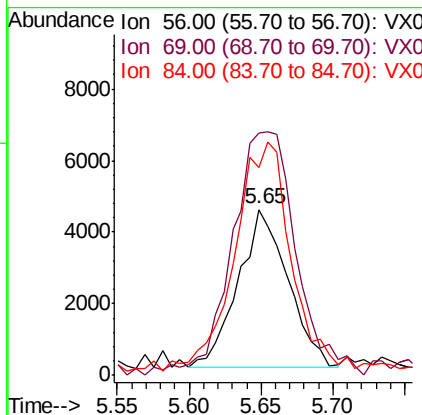
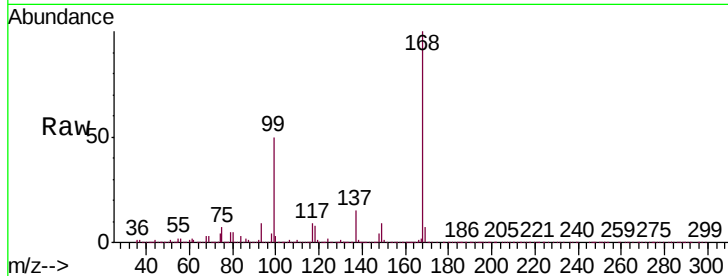




#31
Cyclohexane
Concen: 1.074 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

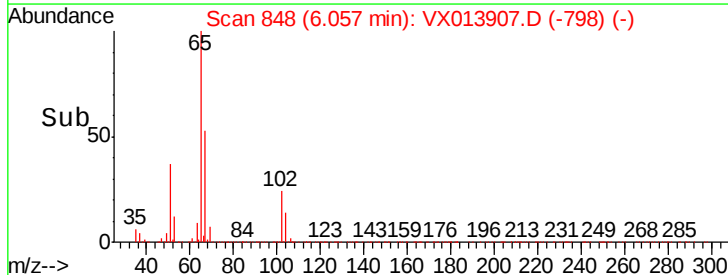
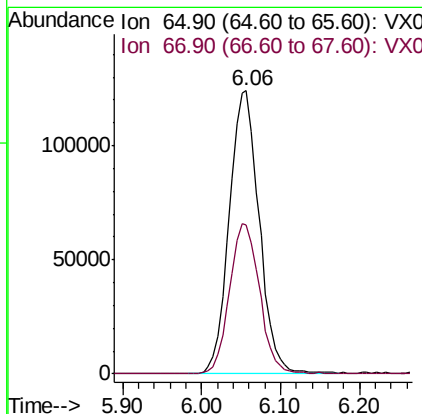
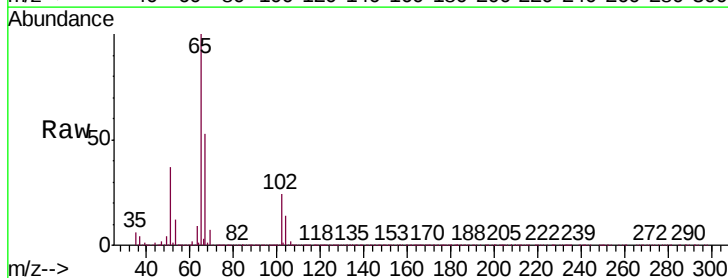
Instrument :
MSVOA_X
ClientSampleId :
TW-4

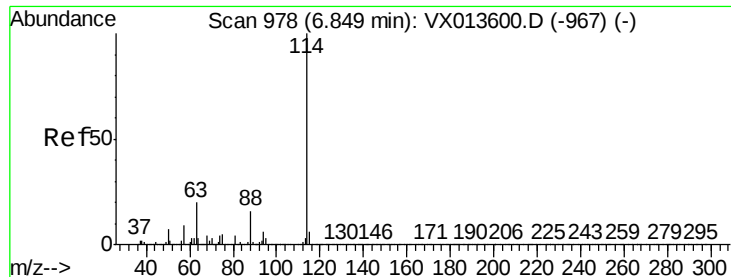
Tgt Ion: 56 Resp: 10723
Ion Ratio Lower Upper
56 100
69 146.4 24.6 36.8#
84 124.8 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.110 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

Tgt Ion: 65 Resp: 325202
Ion Ratio Lower Upper
65 100
67 53.3 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

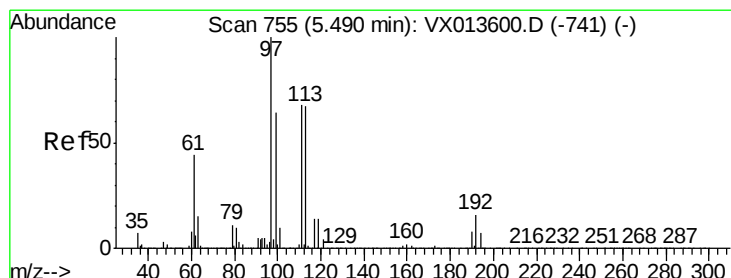
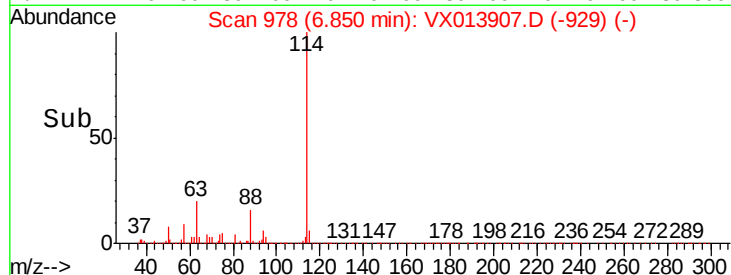
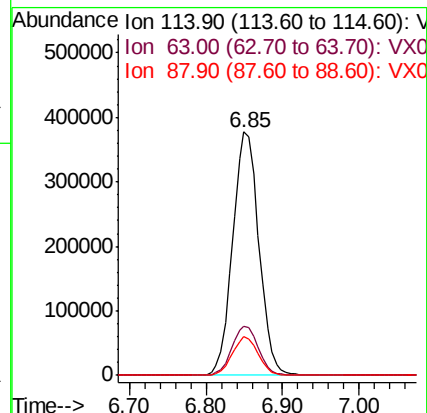
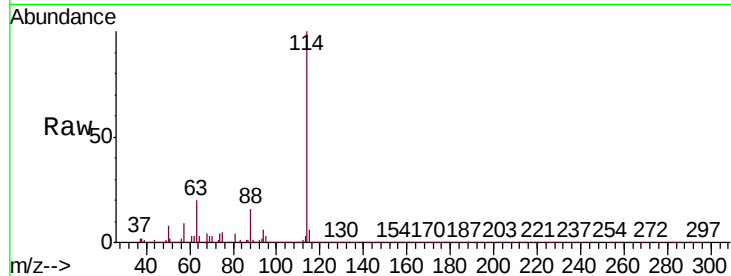
Instrument :

MSVOA_X

ClientSampleId :

TW-4

Tgt Ion:	114	Resp:	897692
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	15.8	0.0	31.4



#35

Dibromofluoromethane

Concen: 48.345 ug/l

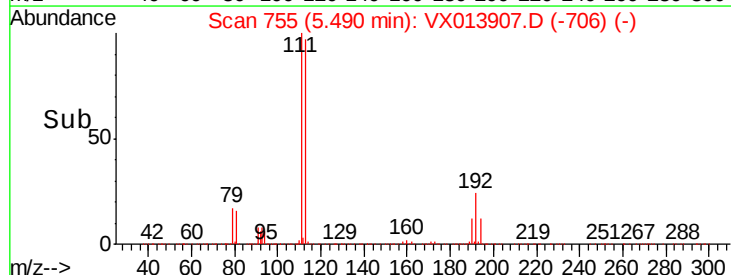
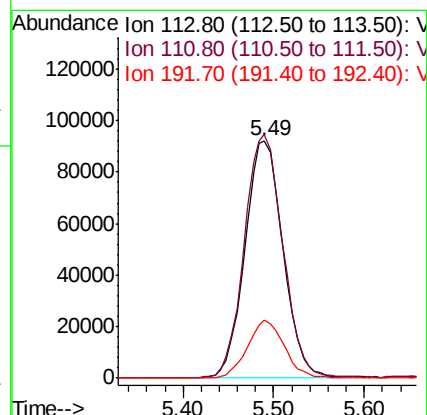
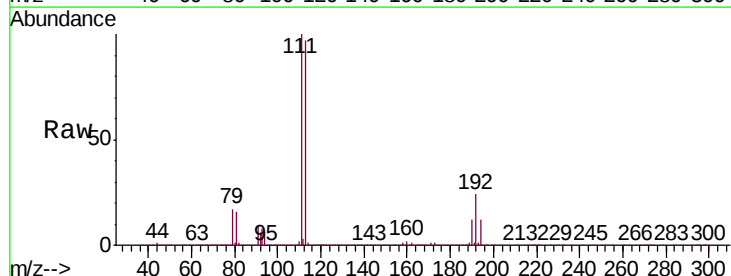
RT: 5.49 min Scan# 755

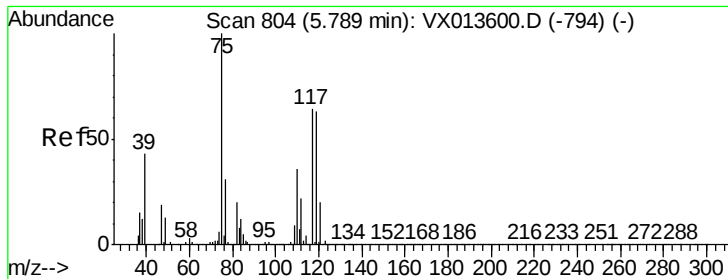
Delta R.T. 0.00 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Tgt Ion:	113	Resp:	268300
Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.6	125.4
192	23.3	19.2	28.8

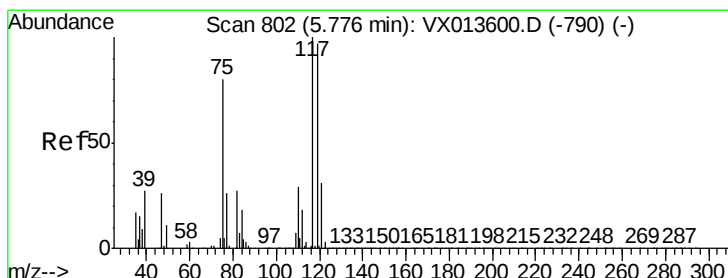
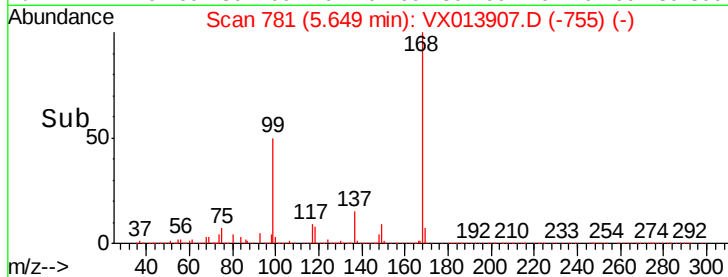
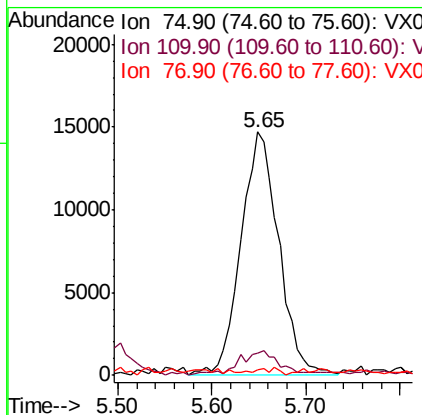
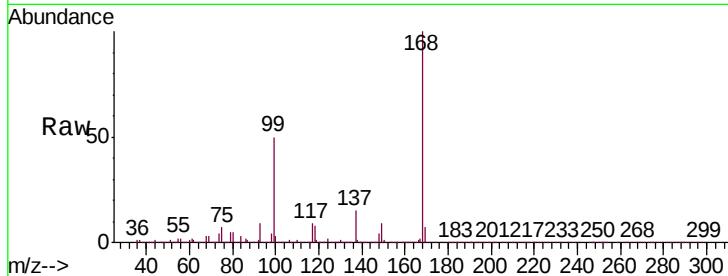




#36
 1,1-Dichloropropene
 Concen: 5.090 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013907.D
 Acq: 10 Dec 2019 18:43

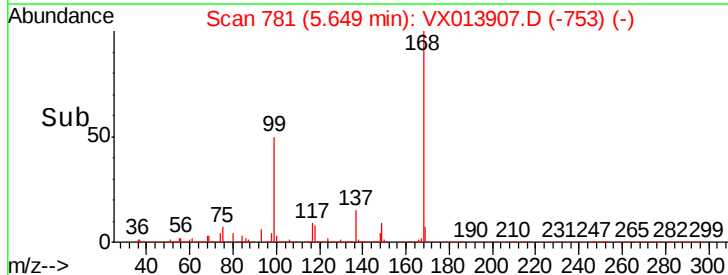
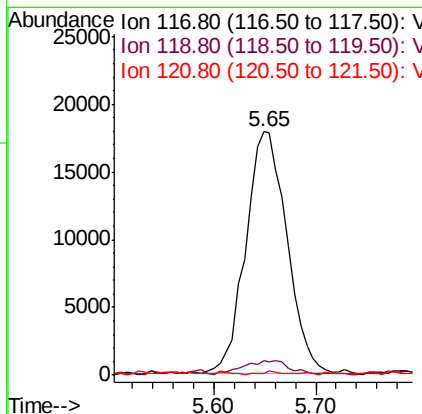
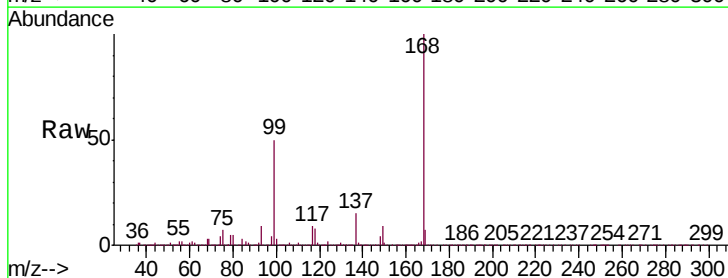
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-4

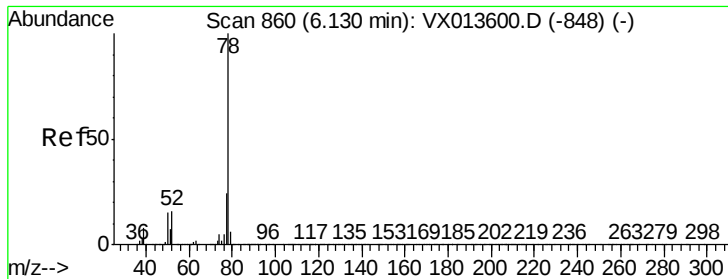
Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	18.1	54.1#
77	1.8	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.705 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013907.D
 Acq: 10 Dec 2019 18:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	77.5	116.3#
121	0.0	25.0	37.6#





#40

Benzene

Concen: 0.851 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

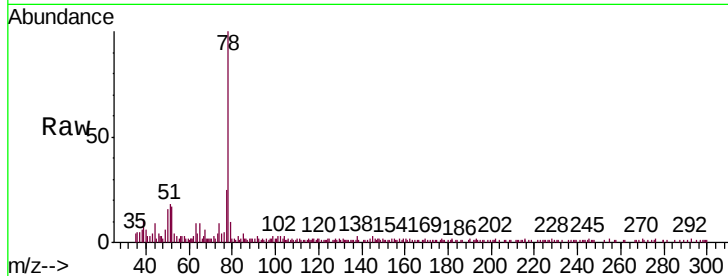
TW-4

Tgt Ion: 78 Resp: 21125

Ion Ratio Lower Upper

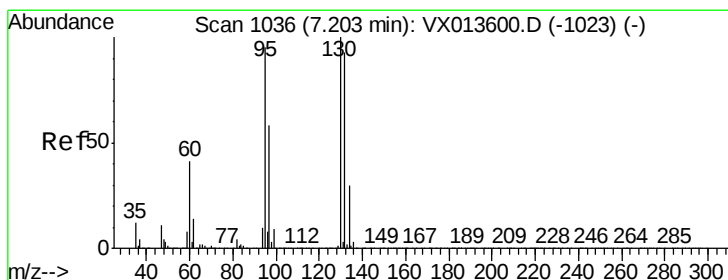
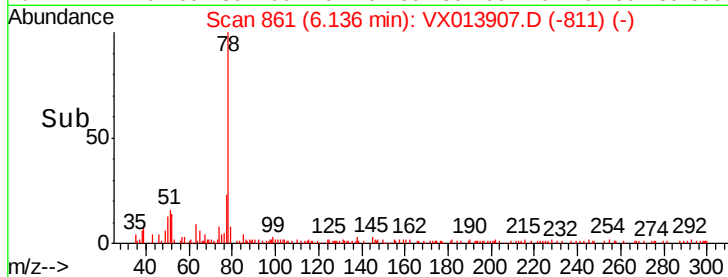
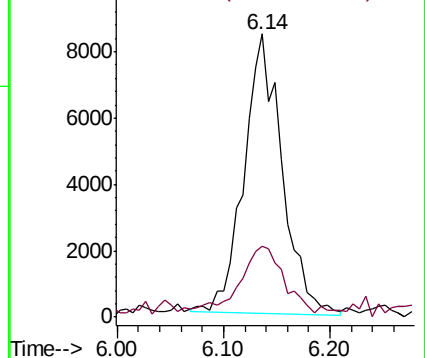
78 100

77 22.6 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 1.019 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013907.D

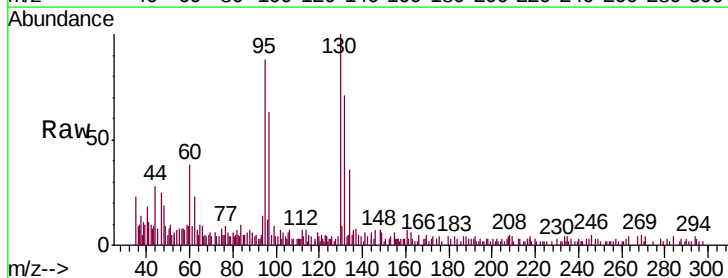
Acq: 10 Dec 2019 18:43

Tgt Ion: 130 Resp: 6942

Ion Ratio Lower Upper

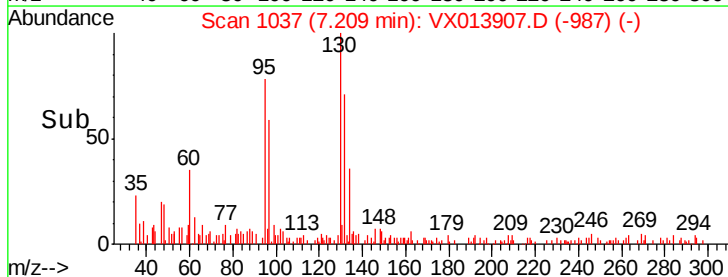
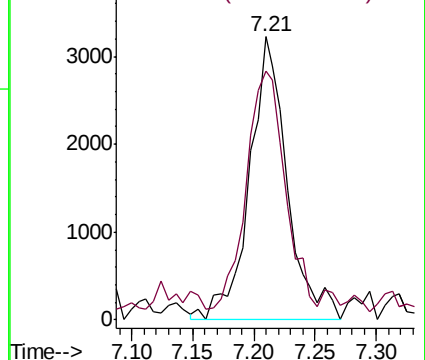
130 100

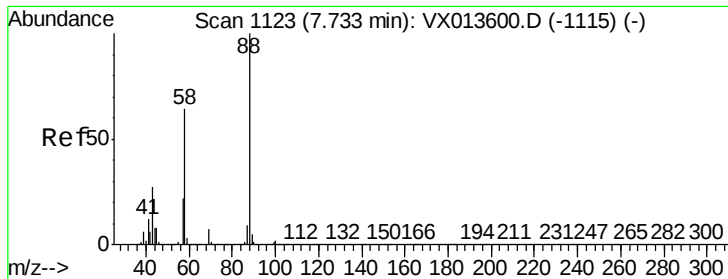
95 84.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.130 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampled :

TW-4

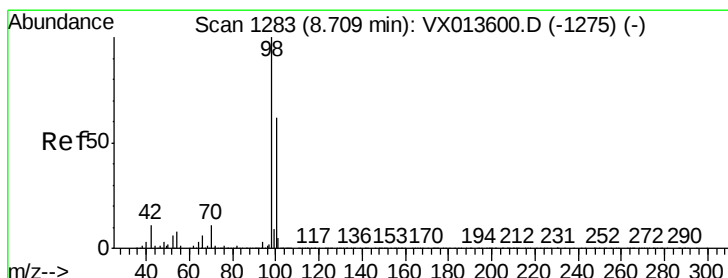
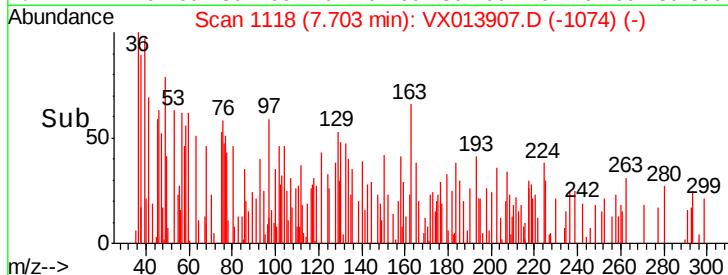
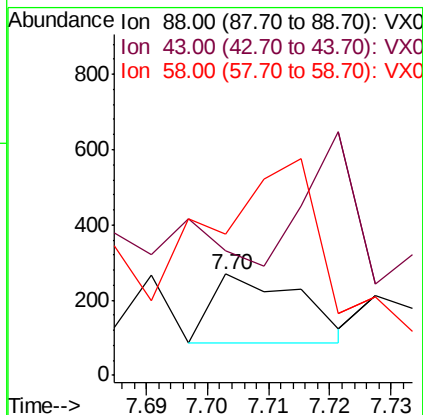
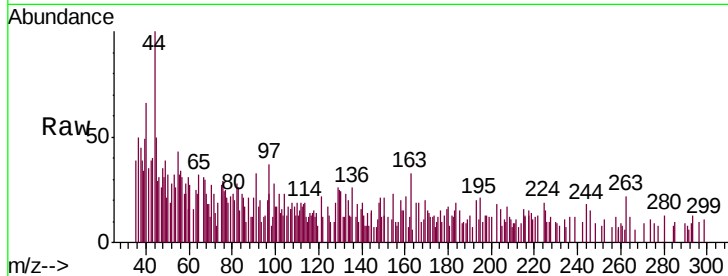
Tgt Ion: 88 Resp: 185

Ion Ratio Lower Upper

88 100

43 229.7 25.8 38.6#

58 309.7 54.6 82.0#



#50

Toluene-d8

Concen: 48.834 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013907.D

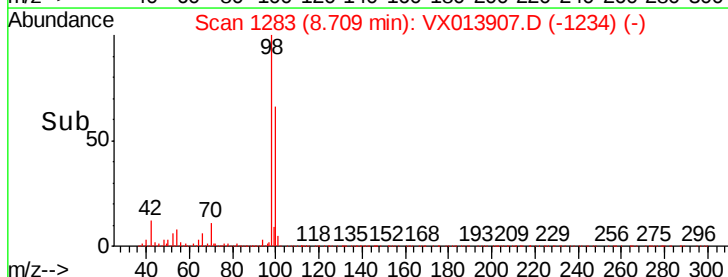
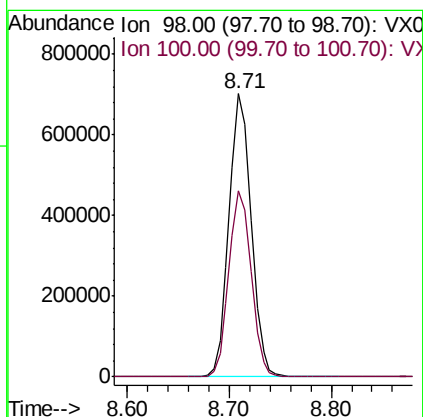
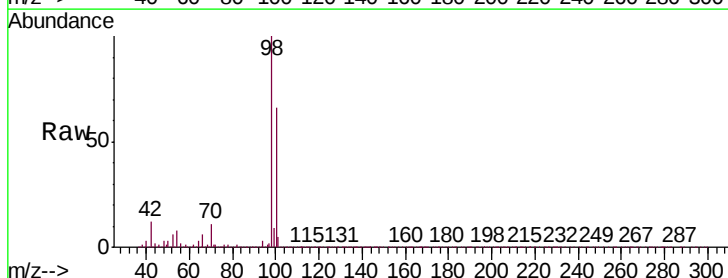
Acq: 10 Dec 2019 18:43

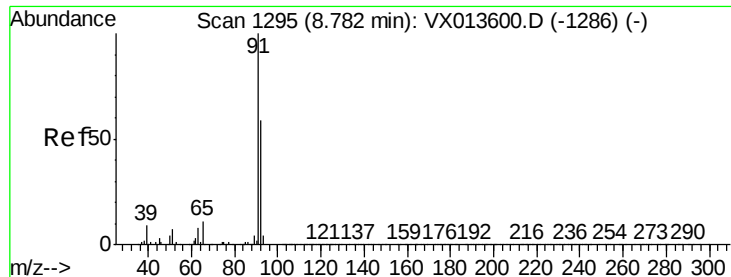
Tgt Ion: 98 Resp: 1055891

Ion Ratio Lower Upper

98 100

100 66.1 53.1 79.7





#52

Toluene

Concen: 1.173 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampled :

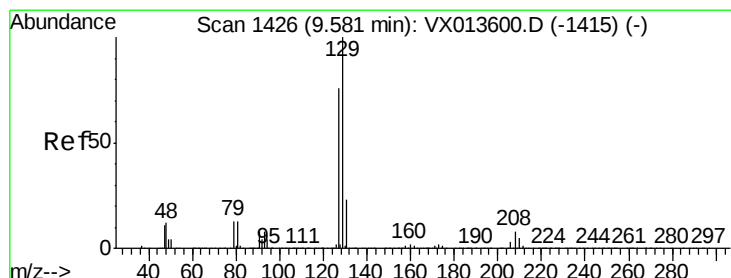
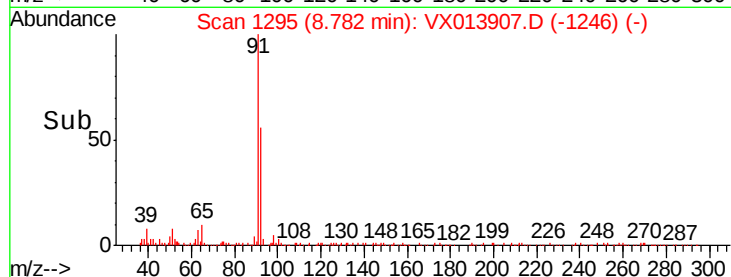
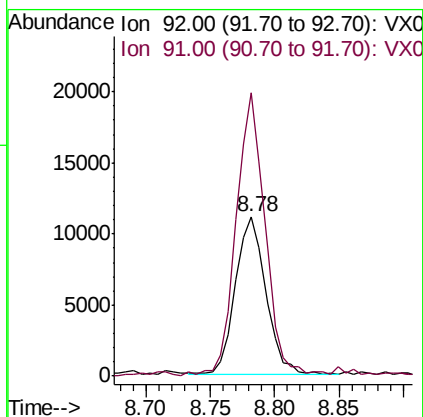
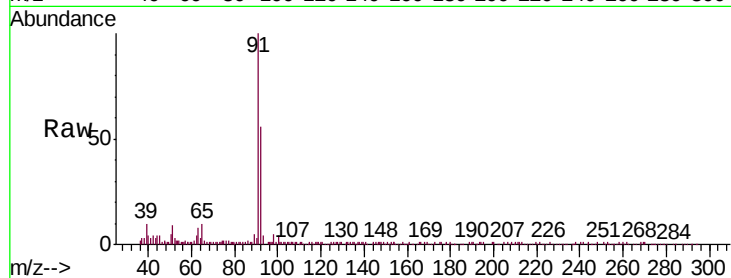
TW-4

Tgt Ion: 92 Resp: 18082

Ion Ratio Lower Upper

92 100

91 172.1 136.2 204.2



#60

Dibromochloromethane

Concen: 14.147 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013907.D

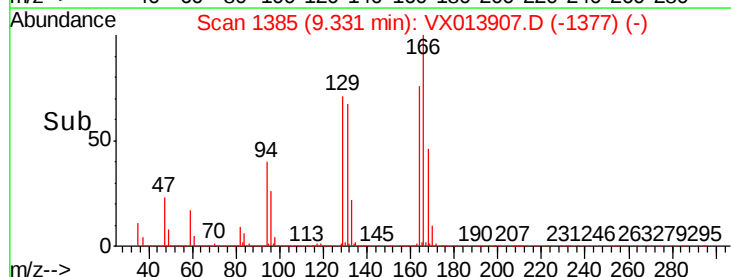
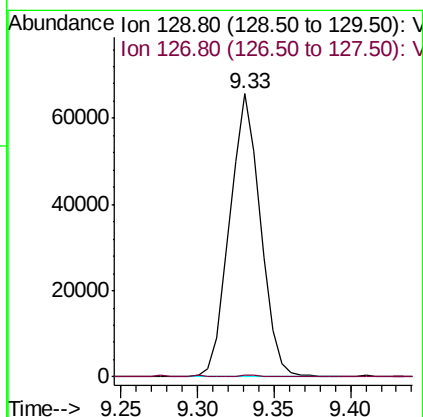
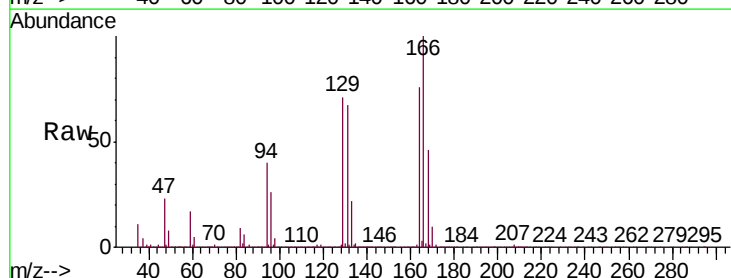
Acq: 10 Dec 2019 18:43

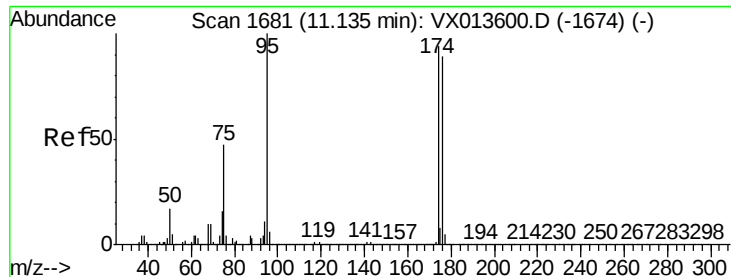
Tgt Ion: 129 Resp: 91223

Ion Ratio Lower Upper

129 100

127 0.4 38.5 115.5#

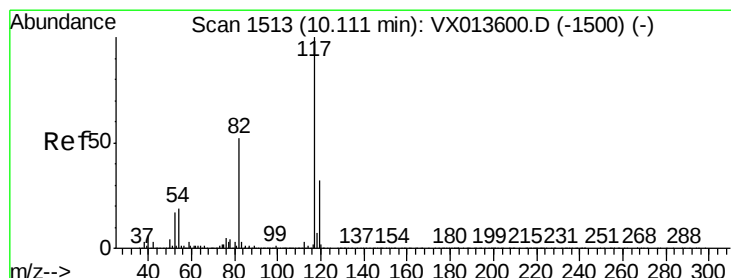
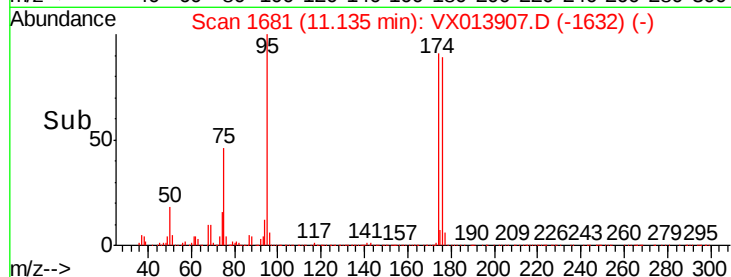
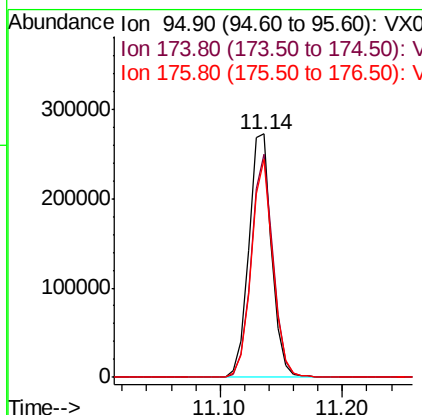
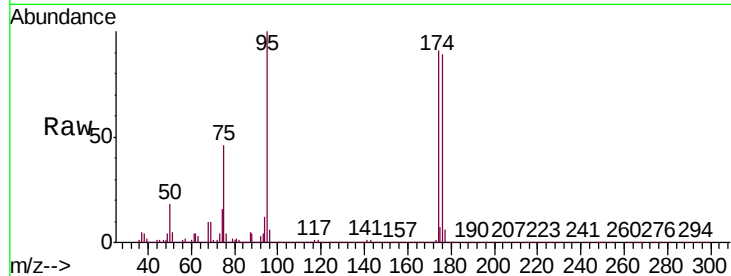




#62
4-Bromofluorobenzene
Concen: 45.291 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

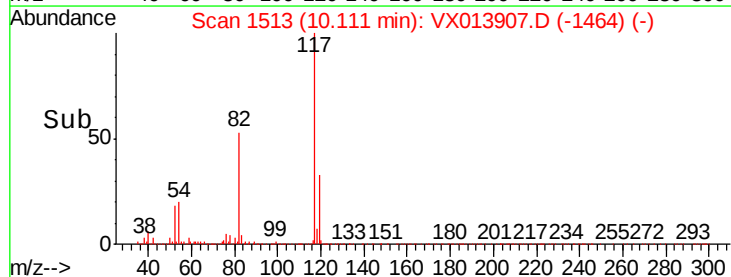
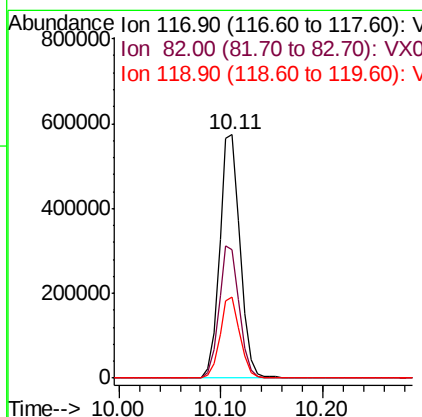
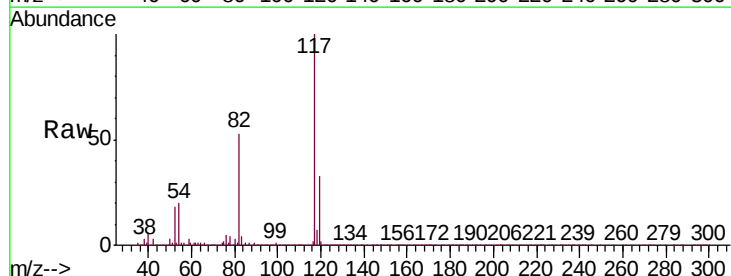
Instrument :
MSVOA_X
ClientSampleId :
TW-4

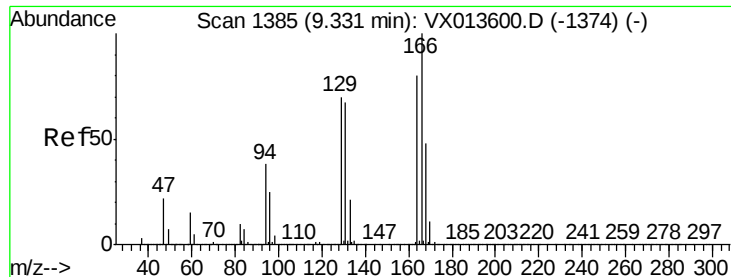
Tgt Ion: 95 Resp: 353134
Ion Ratio Lower Upper
95 100
174 88.7 0.0 180.0
176 86.2 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013907.D
Acq: 10 Dec 2019 18:43

Tgt Ion: 117 Resp: 801802
Ion Ratio Lower Upper
117 100
82 52.9 41.8 62.8
119 33.1 25.8 38.8





#64

Tetrachloroethene

Concen: 17.149 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampled :

TW-4

Tgt Ion:164 Resp: 102542

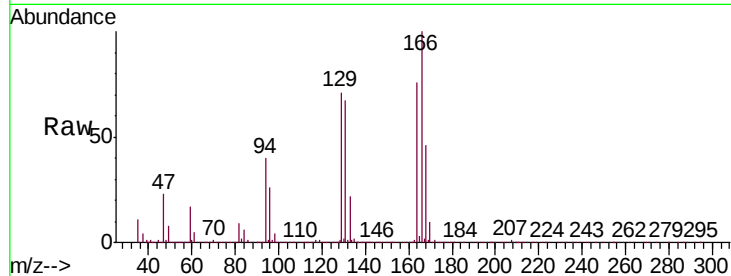
Ion Ratio Lower Upper

164 100

166 132.3 99.7 149.5

129 94.3 70.1 105.1

131 88.9 66.9 100.3

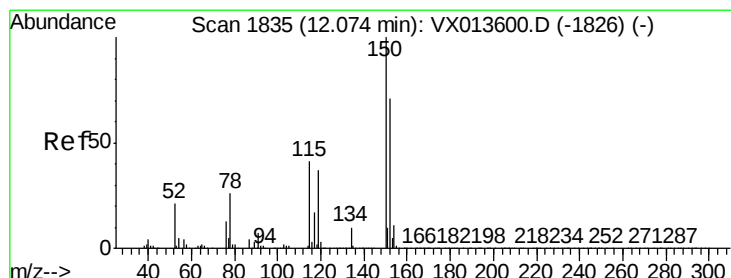
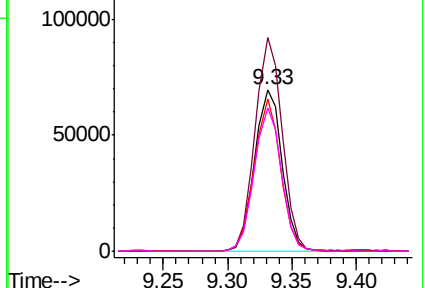
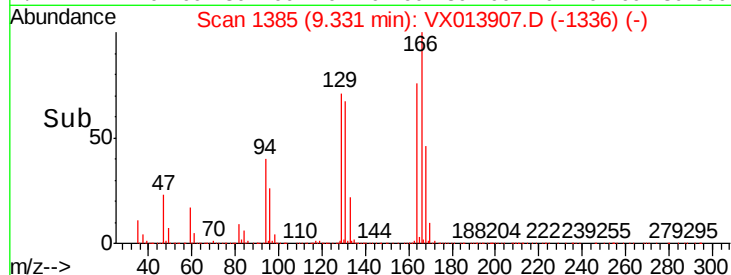


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

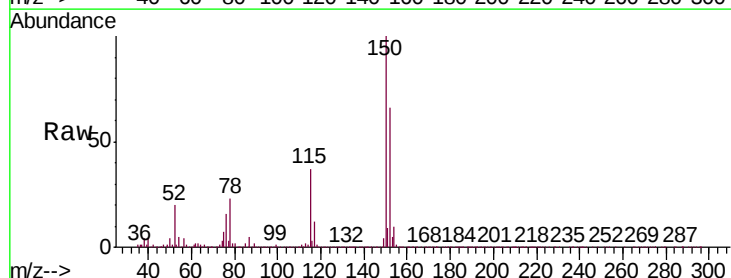
Tgt Ion:152 Resp: 345097

Ion Ratio Lower Upper

152 100

115 56.2 38.4 115.1

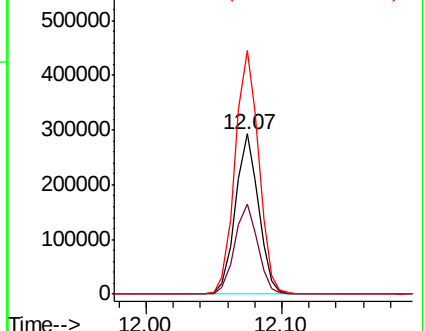
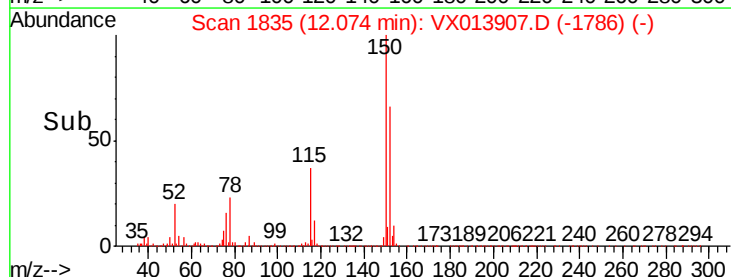
150 156.0 0.0 346.8

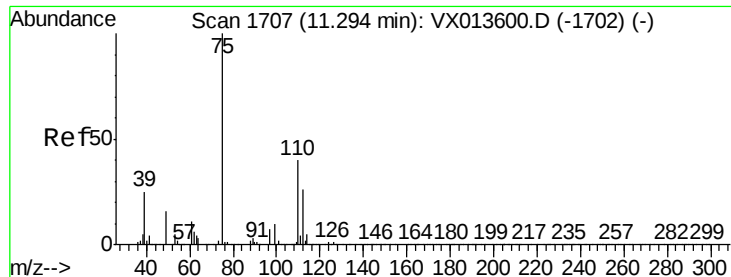


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.827 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

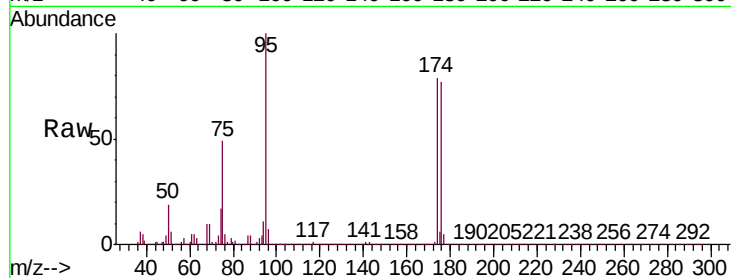
TW-4

Tgt Ion: 75 Resp: 169418

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

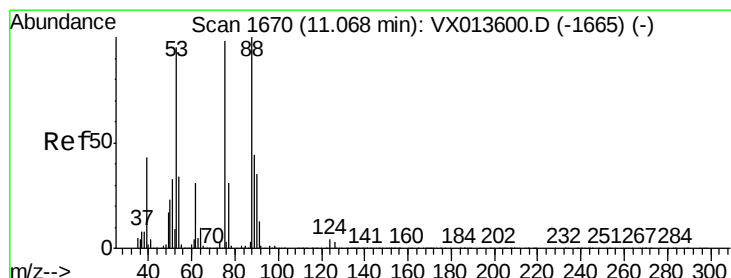
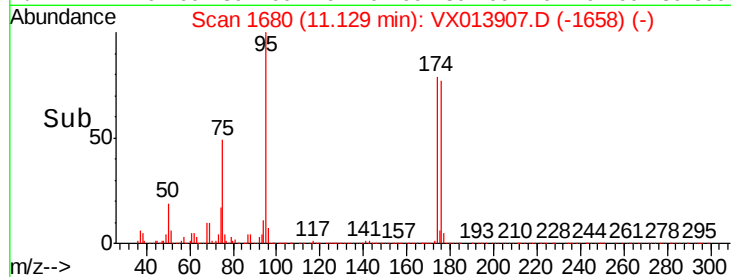
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.715 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

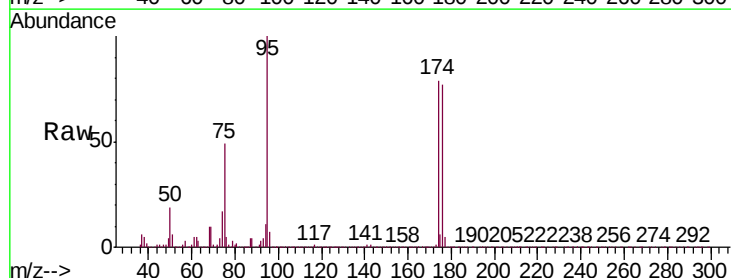
Tgt Ion: 75 Resp: 169418

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.2 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

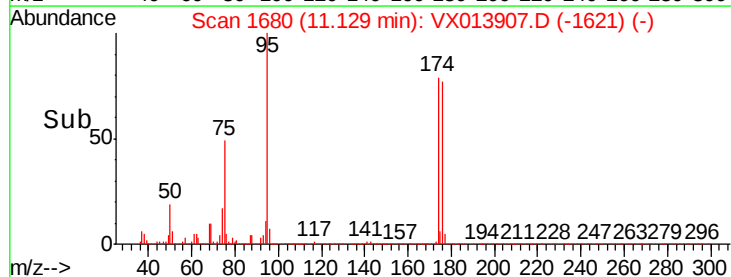
150000

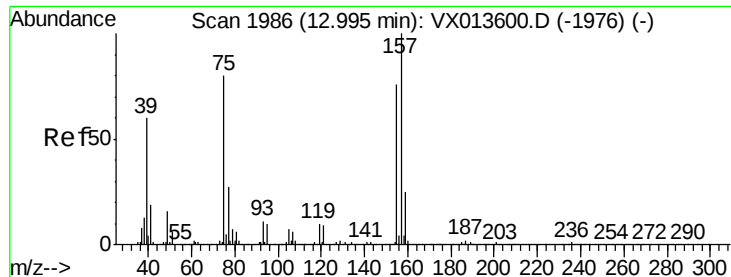
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.294 ug/l

RT: 13.06 min Scan# 1997

Delta R.T. 0.07 min

Lab File: VX013907.D

Acq: 10 Dec 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

TW-4

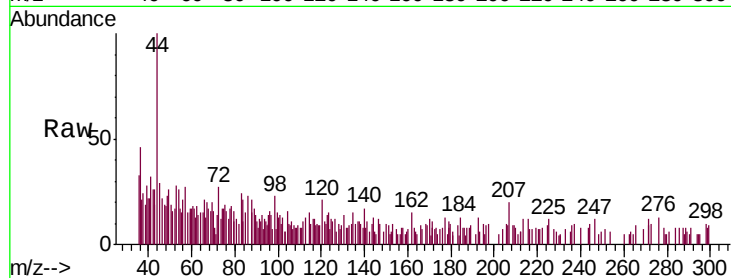
Tgt Ion: 75 Resp: 537

Ion Ratio Lower Upper

75 100

155 76.7 47.6 142.8

157 63.5 62.1 186.2



Abundance Ion 74.90 (74.60 to 75.60): VX0

500

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

400

300

200

100

0

13.05

13.06

Time-->

