

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\
 Data File : VX004411.D
 Acq On : 07 Sep 2018 16:58
 Operator : JC/MD
 Sample : J4812-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

Quant Time: Sep 08 03:23:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	291405	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	469015	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	448014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	248348	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	205533	54.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.22%	
35) Dibromofluoromethane	5.50	113	180044	51.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.20%	
50) Toluene-d8	8.71	98	670957	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.14	95	239449	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	

Target Compounds

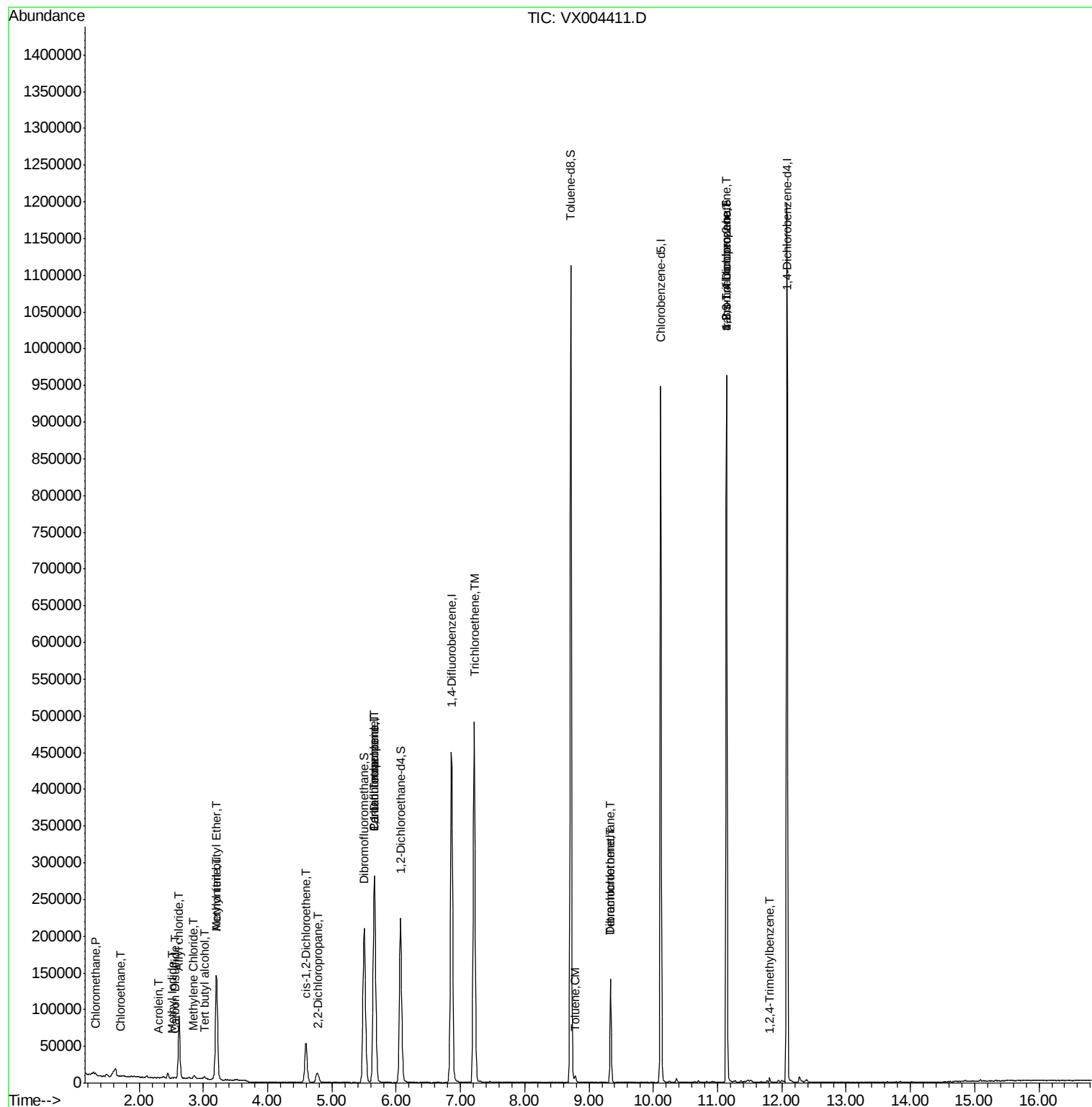
						Qvalue
3) Chloromethane	1.32	50	910	0.53	ug/l	93
5) Bromomethane	1.64	94	1186	Below	Cal	86
6) Chloroethane	1.71	64	4908	2.56	ug/l #	59
10) Methyl Iodide	2.52	142	727	4.44	ug/l #	92
11) Tert butyl alcohol	3.02	59	2194	2.71	ug/l #	72
13) Acrolein	2.29	56	291	1.49	ug/l #	79
14) Allyl chloride	2.62	41	8216	1.45	ug/l #	65
15) Acrylonitrile	3.20	53	2384	1.19	ug/l #	35
16) Acetone	2.45	43	7182	Below	Cal	97
17) Carbon Disulfide	2.56	76	1016	0.91	ug/l #	85
19) Methyl tert-butyl Ether	3.20	73	160491	15.78	ug/l	97
20) Methylene Chloride	2.85	84	1767	0.48	ug/l	89
25) 2-Butanone	4.71	43	660	Below	Cal	98
26) 2,2-Dichloropropane	4.78	77	1198	0.25	ug/l #	52
27) cis-1,2-Dichloroethene	4.59	96	36365	9.38	ug/l	89
36) 1,1-Dichloropropene	5.66	75	19407	3.68	ug/l #	48
38) Carbon Tetrachloride	5.66	117	25262	5.09	ug/l #	16
44) Trichloroethene	7.21	130	200629	46.00	ug/l	95
52) Toluene	8.79	92	2815	0.29	ug/l	99
60) Dibromochloromethane	9.33	129	25474	6.57	ug/l #	11
64) Tetrachloroethene	9.33	164	28839	6.52	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	111707	22.12	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	111707	71.76	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	2804	0.20	ug/l	93

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

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

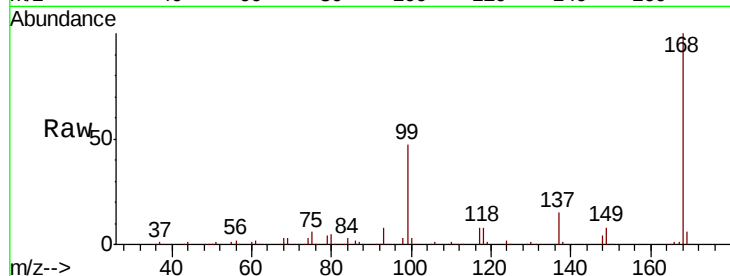
MW-1

Tot Ion:168 Resp: 291405

Ion Ratio Lower Upper

168 100

99 46.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

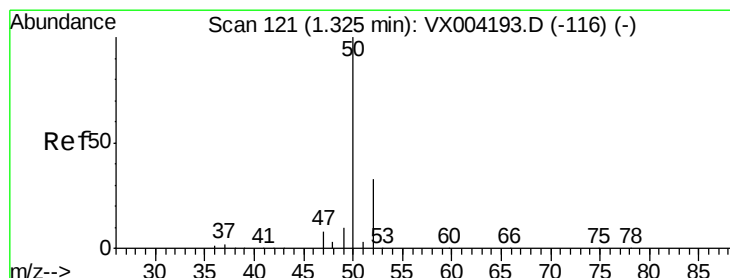
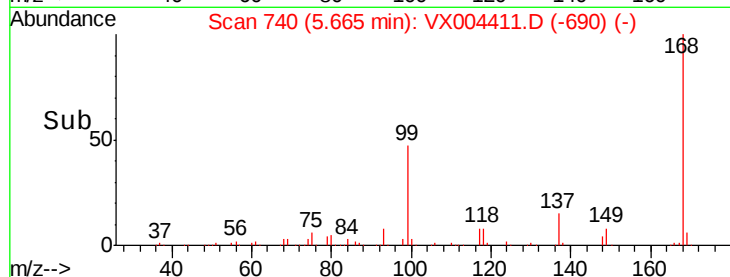
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.53 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004411.D

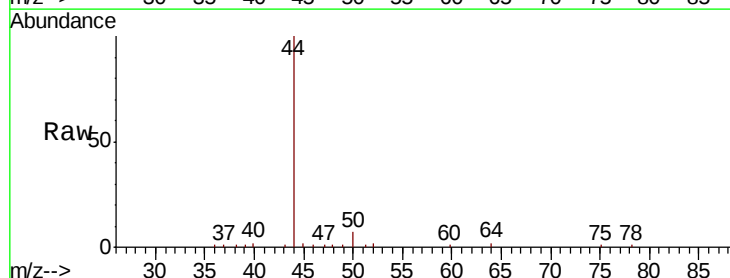
Acq: 07 Sep 2018 16:58

Tgt Ion: 50 Resp: 910

Ion Ratio Lower Upper

50 100

52 28.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

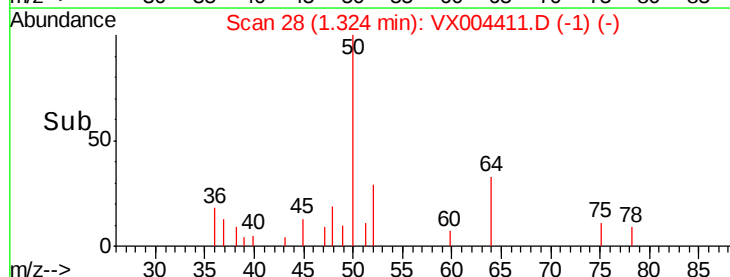
600

400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

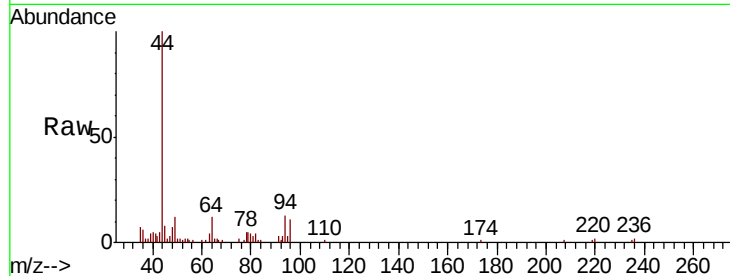
MW-1

Tot Ion: 94 Resp: 1186

Ion Ratio Lower Upper

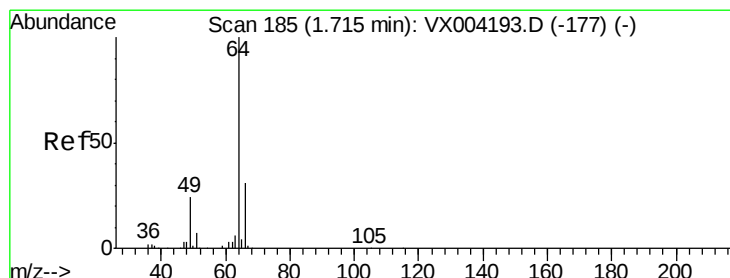
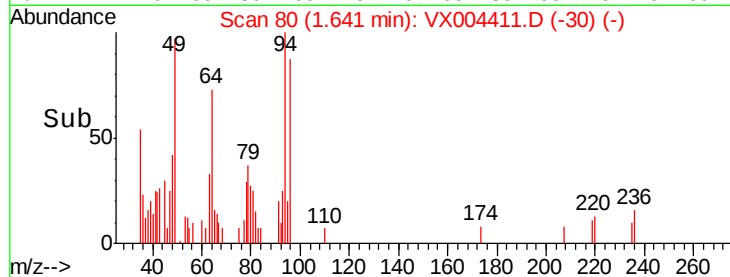
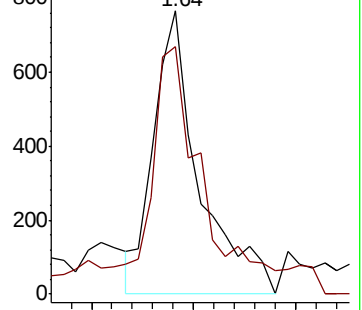
94 100

96 79.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.56 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX004411.D

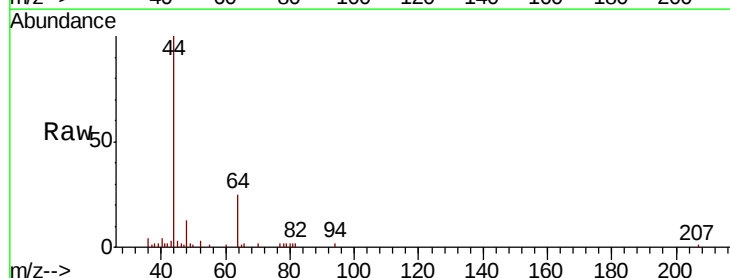
Acq: 07 Sep 2018 16:58

Tgt Ion: 64 Resp: 4908

Ion Ratio Lower Upper

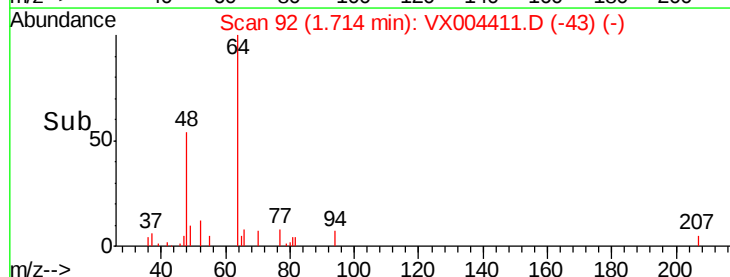
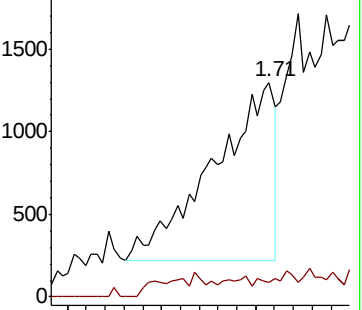
64 100

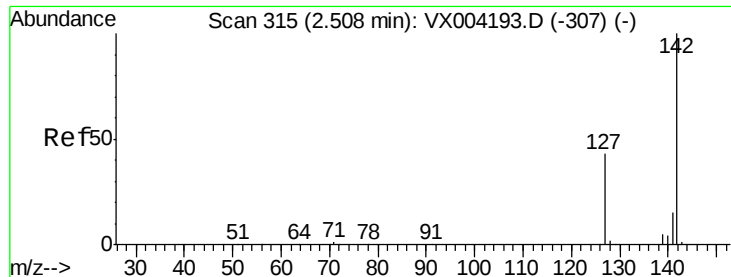
66 8.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

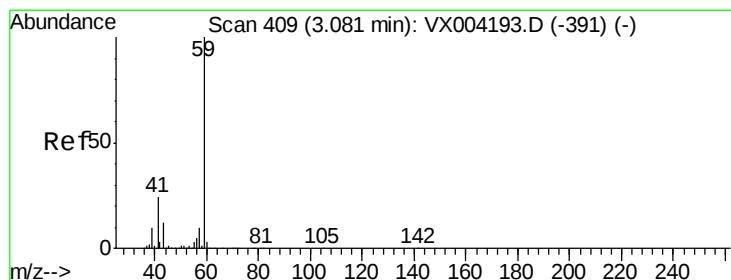
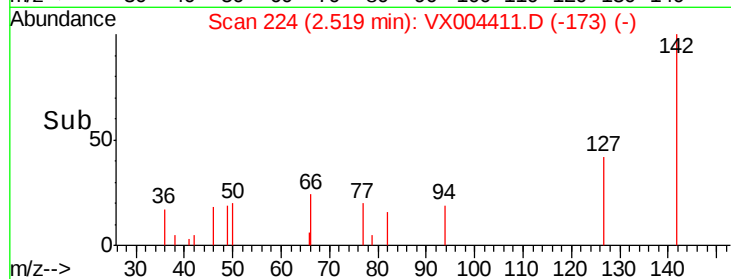
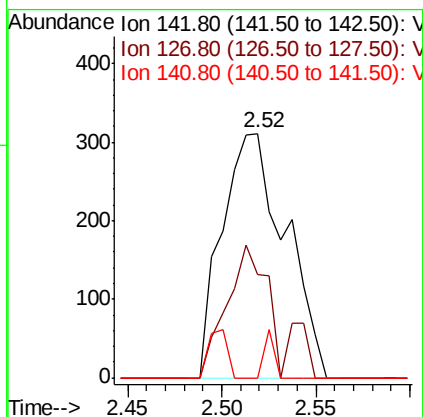
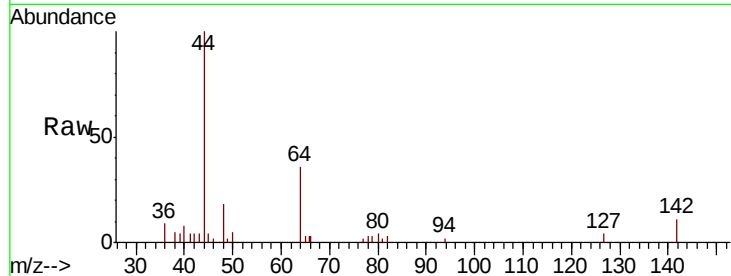




#10
Methyl Iodide
Concen: 4.44 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

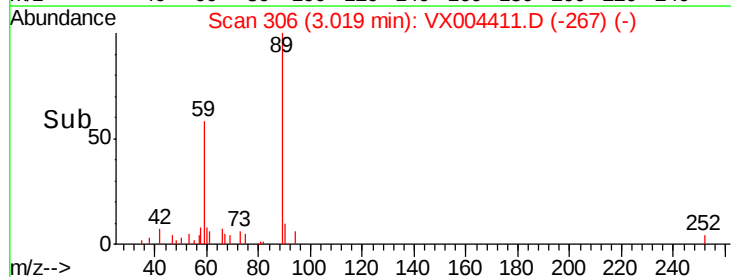
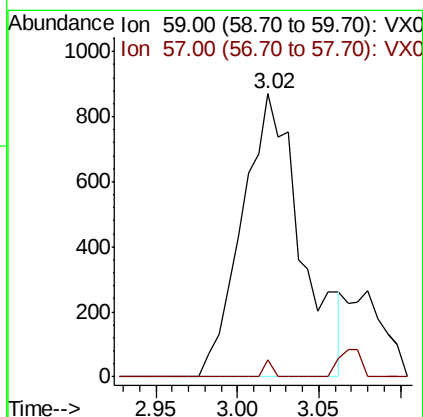
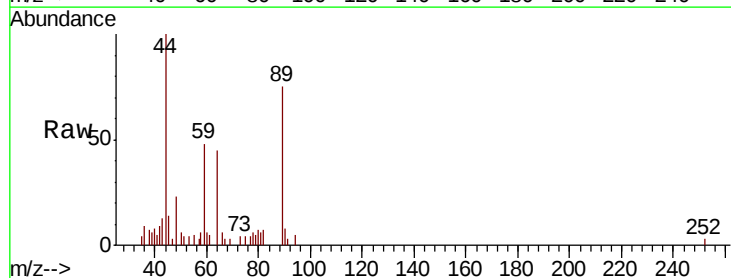
Instrument :
MSVOA_X
ClientSampled :
MW-1

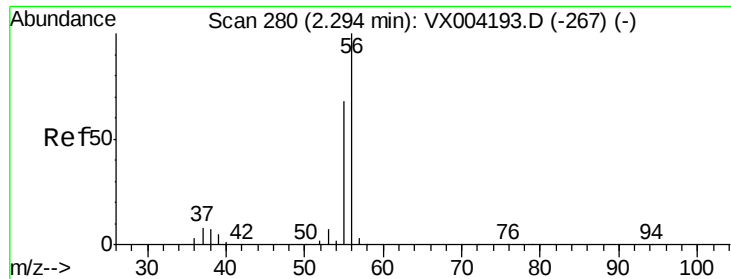
Tot Ion:142 Resp: 727
Ion Ratio Lower Upper
142 100
127 41.0 33.8 50.6
141 3.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.71 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

Tgt Ion: 59 Resp: 2194
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 1.49 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampled :

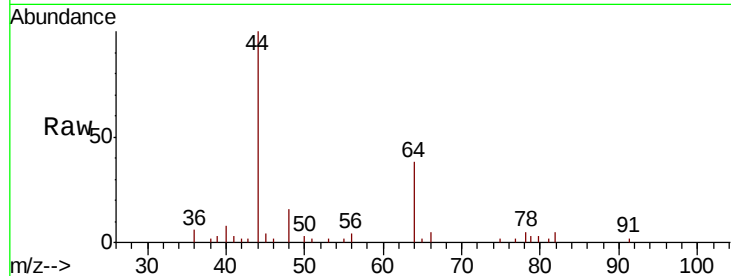
MW-1

Tot Ion: 56 Resp: 291

Ion Ratio Lower Upper

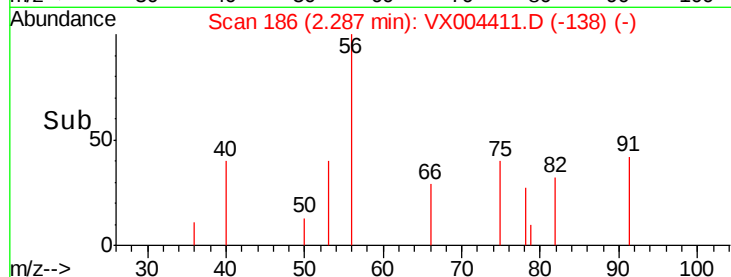
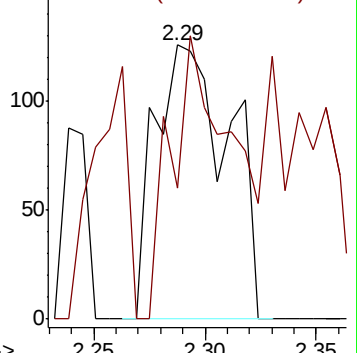
56 100

55 85.6 54.7 82.1#

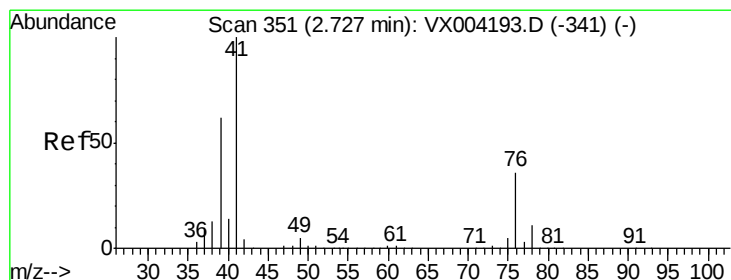


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#14

Allyl chloride

Concen: 1.45 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

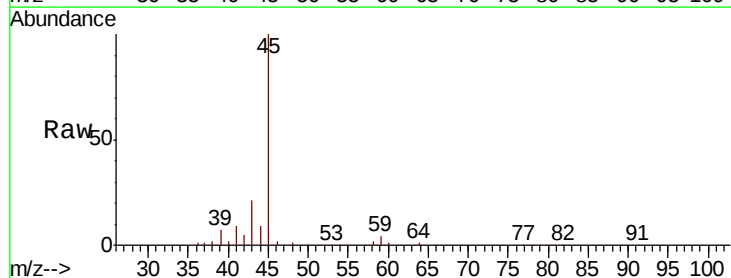
Tgt Ion: 41 Resp: 8216

Ion Ratio Lower Upper

41 100

39 77.6 48.9 73.3#

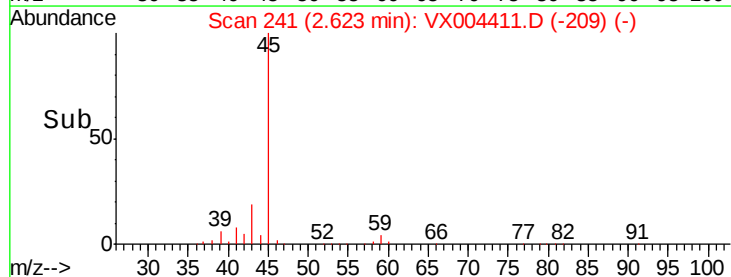
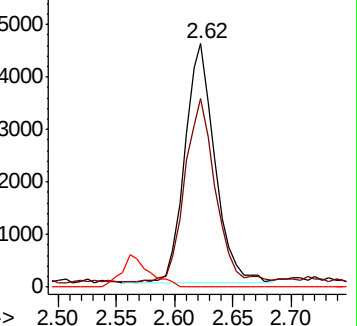
76 0.0 26.7 40.1#



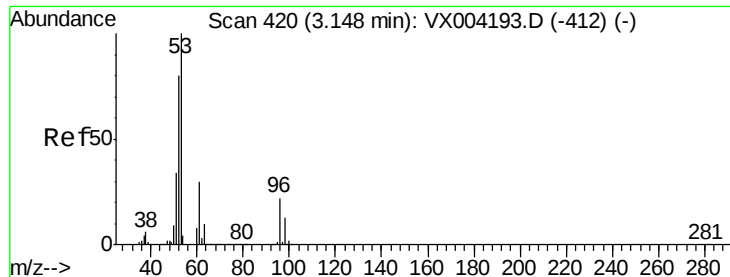
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



Time-->



#15

Acrylonitrile

Concen: 1.19 ug/l

RT: 3.20 min Scan# 336

Delta R.T. 0.05 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MW-1

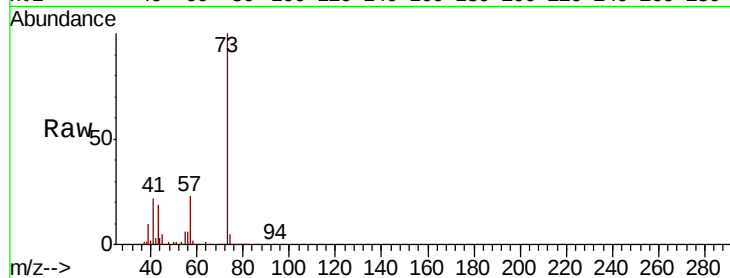
Tot Ion: 53 Resp: 2384

Ion Ratio Lower Upper

53 100

52 23.8 65.2 97.8#

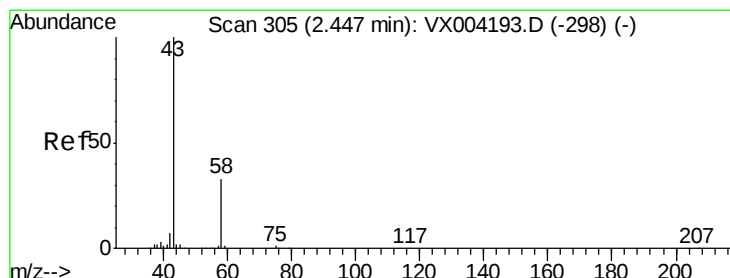
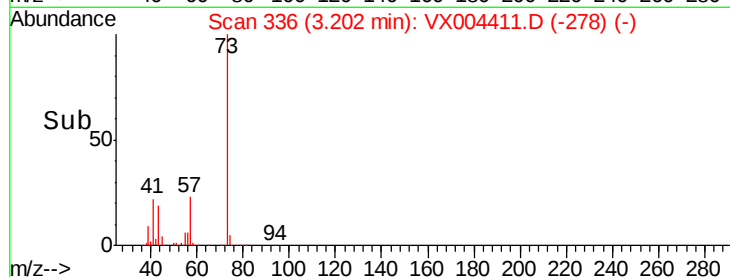
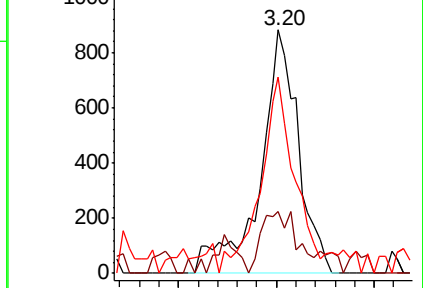
51 72.6 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004411.D

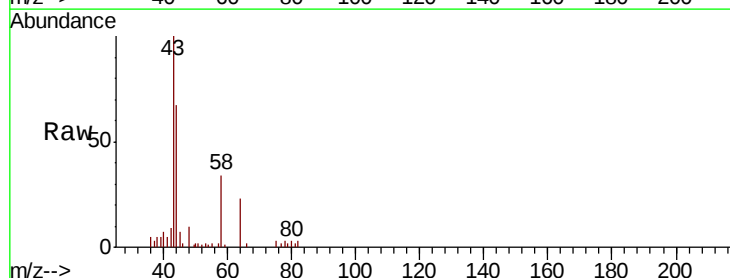
Acq: 07 Sep 2018 16:58

Tgt Ion: 43 Resp: 7182

Ion Ratio Lower Upper

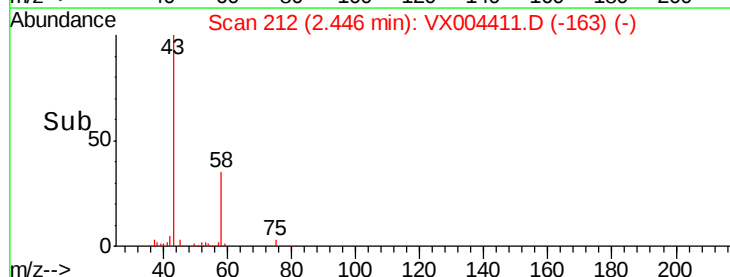
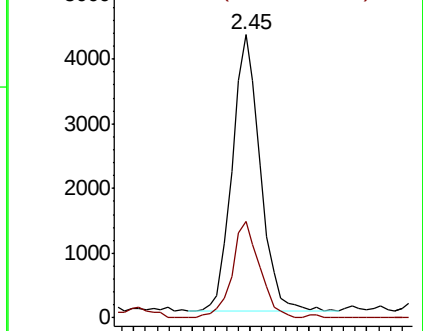
43 100

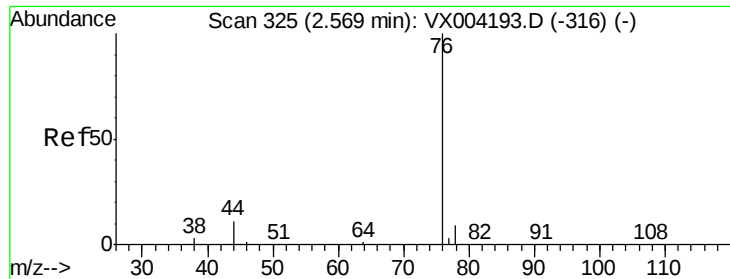
58 34.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

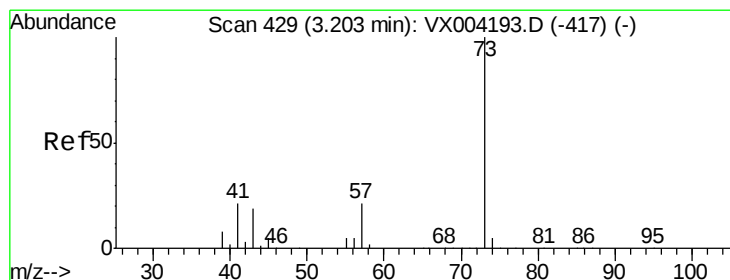
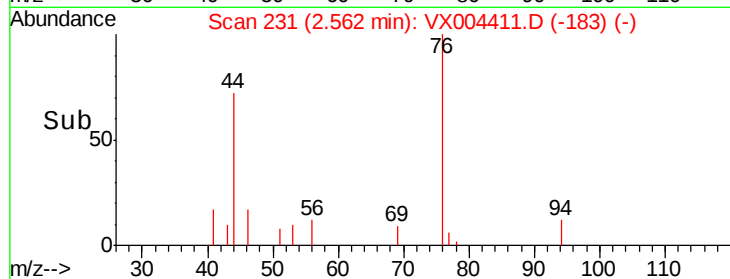
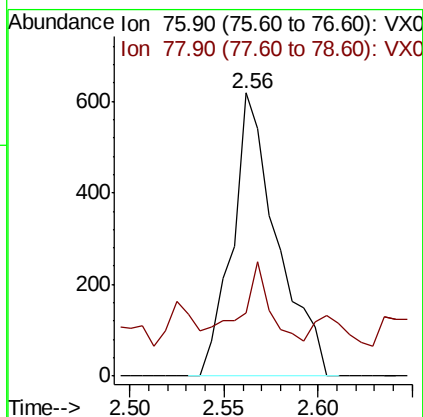
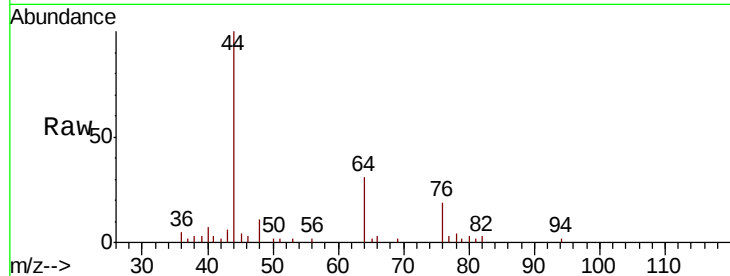




#17
Carbon Disulfide
Concen: 0.91 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.01 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

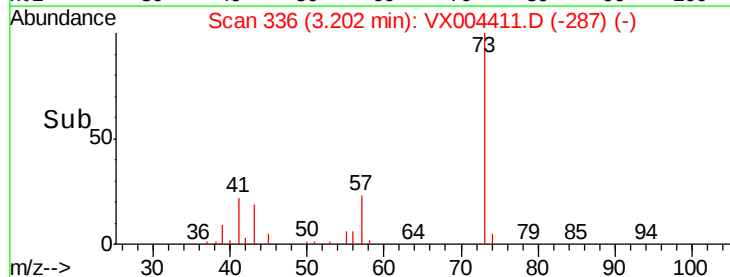
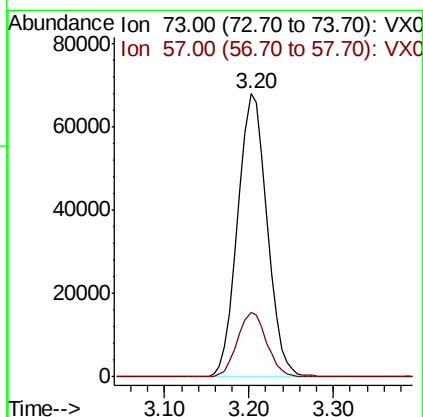
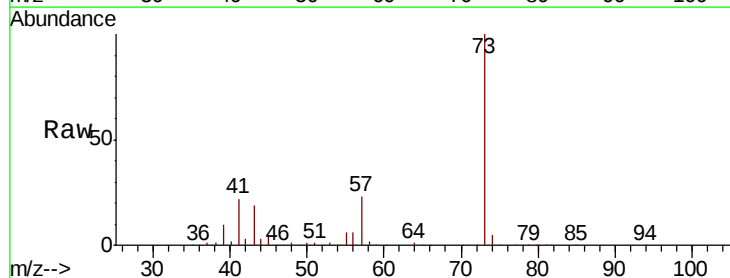
Instrument :
MSVOA_X
ClientSampleId :
MW-1

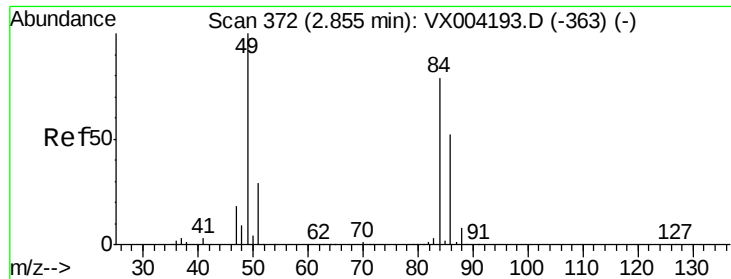
Tot Ion: 76 Resp: 1016
Ion Ratio Lower Upper
76 100
78 3.6 7.0 10.6#



#19
Methyl tert-butyl Ether
Concen: 15.78 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

Tgt Ion: 73 Resp: 160491
Ion Ratio Lower Upper
73 100
57 22.6 17.1 25.7





#20

Methvlene Chloride

Concen: 0.48 ua/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MW-1

Tot Ion: 84 Resp: 1767

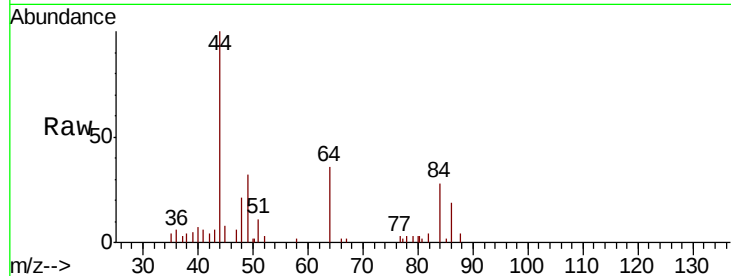
Ion Ratio Lower Upper

84 100

49 108.0 101.2 151.8

51 29.6 29.5 44.3

86 65.9 52.3 78.5

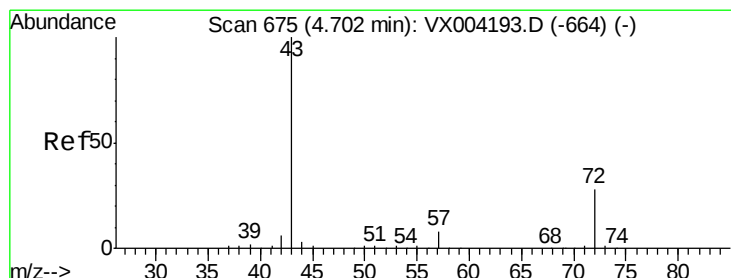
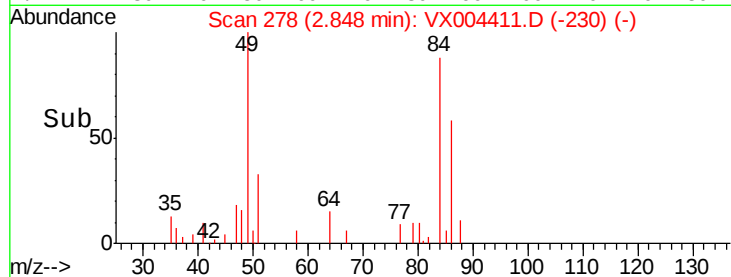
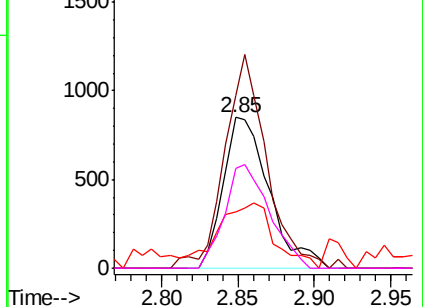


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004411.D

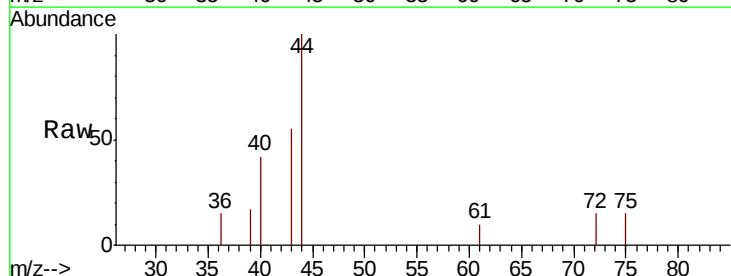
Acq: 07 Sep 2018 16:58

Tgt Ion: 43 Resp: 660

Ion Ratio Lower Upper

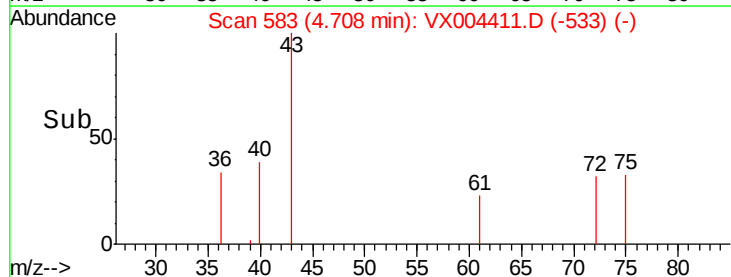
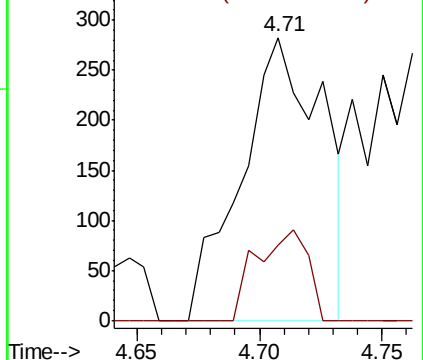
43 100

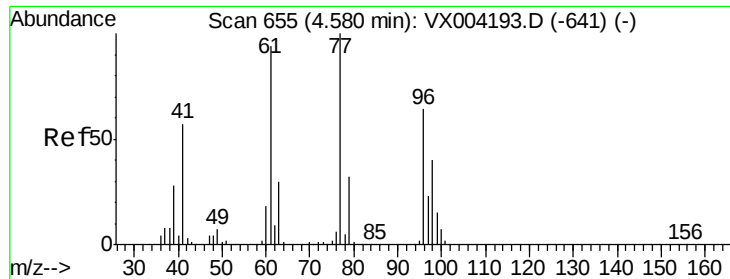
72 26.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.25 ug/l

RT: 4.78 min Scan# 595

Delta R.T. 0.20 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampled :

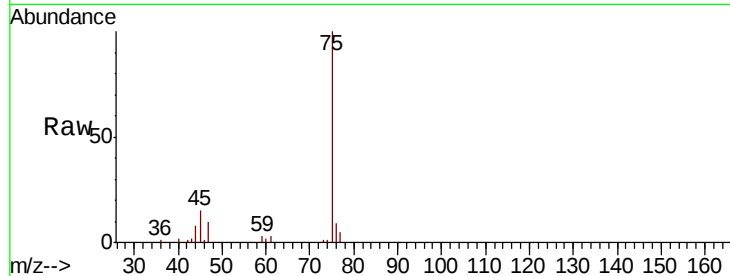
MW-1

Tot Ion: 77 Resp: 1198

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.78

400

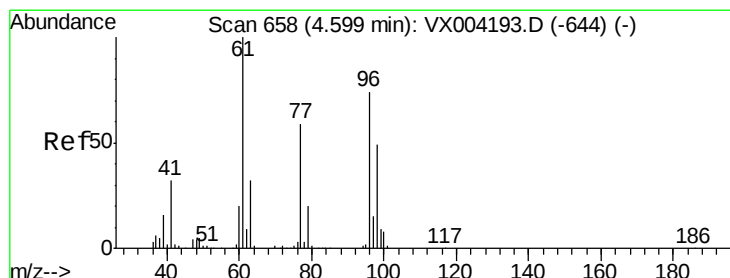
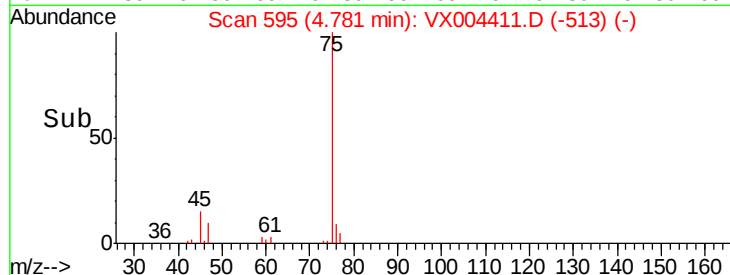
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 9.38 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

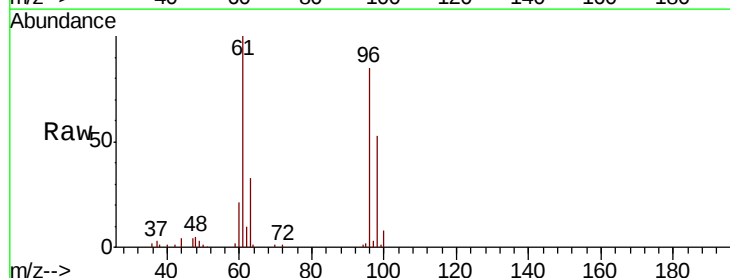
Tgt Ion: 96 Resp: 36365

Ion Ratio Lower Upper

96 100

61 122.8 0.0 282.6

98 63.3 0.0 130.2



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

20000

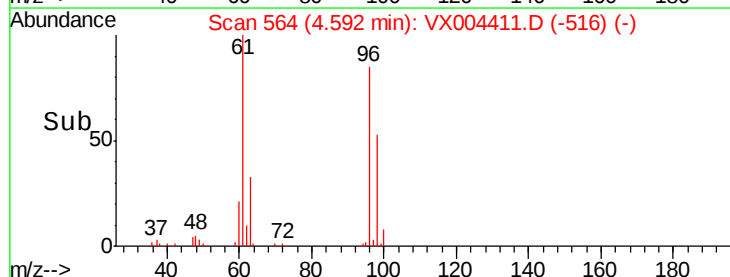
15000

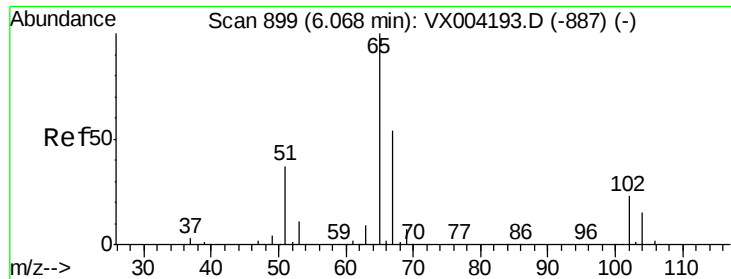
10000

5000

0

Time-->

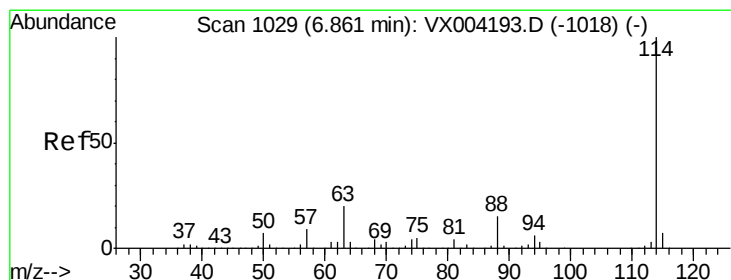
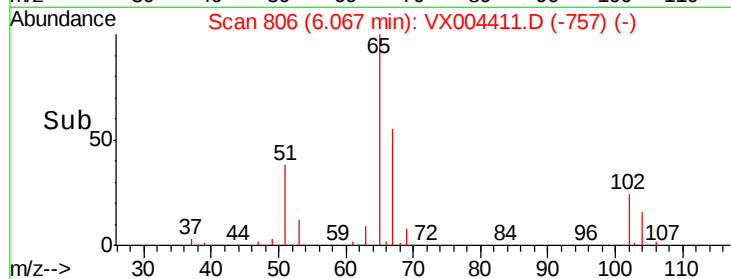
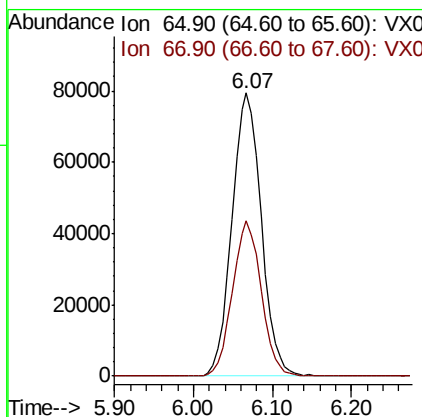
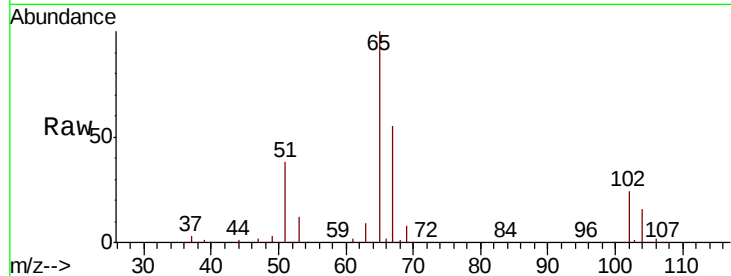




#33
 1,2-Dichloroethane-d4
 Concen: 54.11 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004411.D
 Acq: 07 Sep 2018 16:58

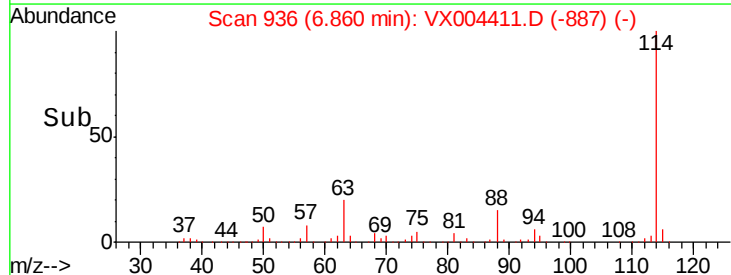
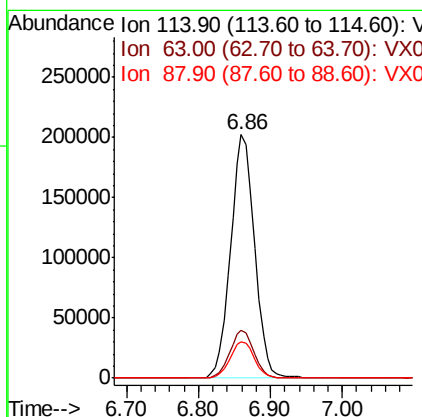
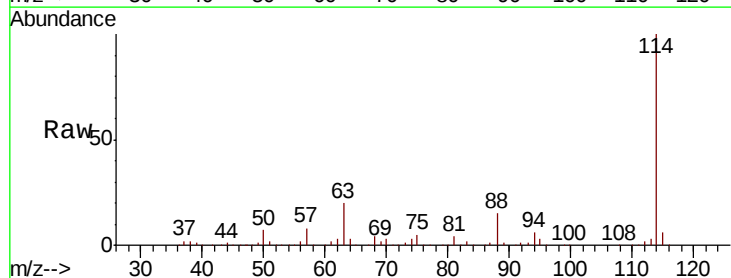
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

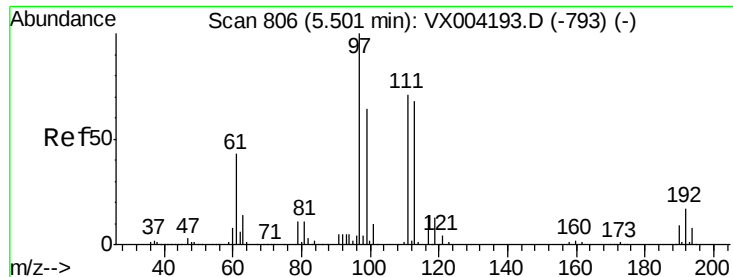
Tot Ion: 65 Resp: 205533
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004411.D
 Acq: 07 Sep 2018 16:58

Tgt Ion: 114 Resp: 469015
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.1 0.0 30.4

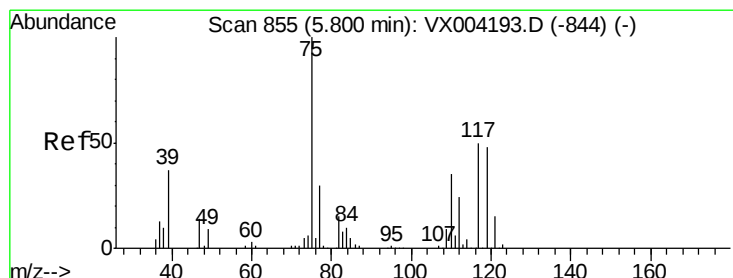
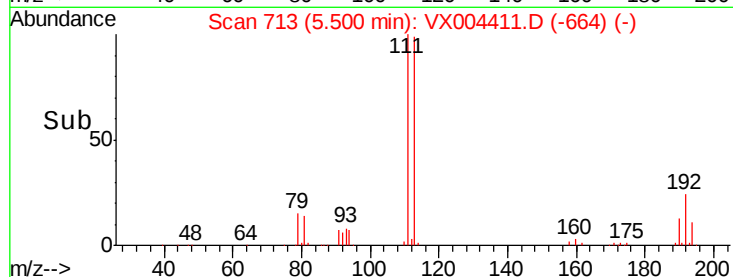
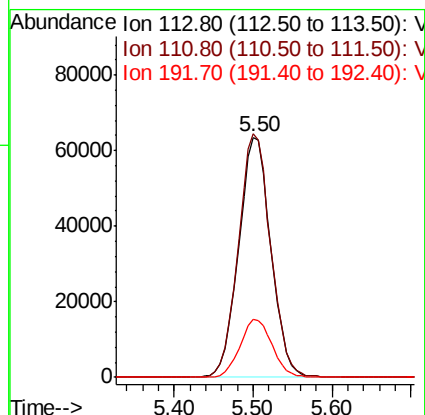
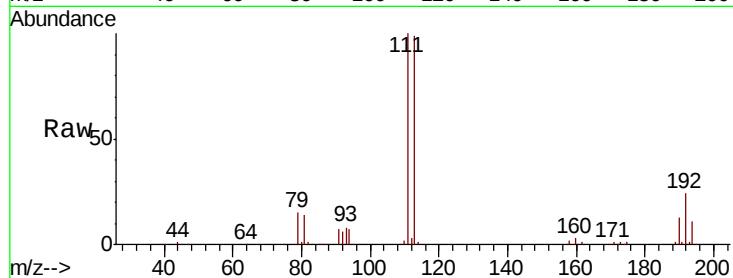




#35
 Dibromofluoromethane
 Concen: 51.60 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004411.D
 Acq: 07 Sep 2018 16:58

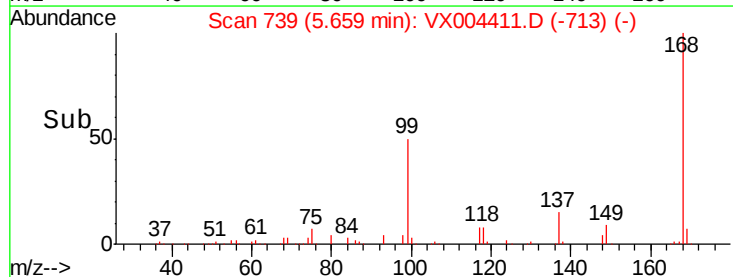
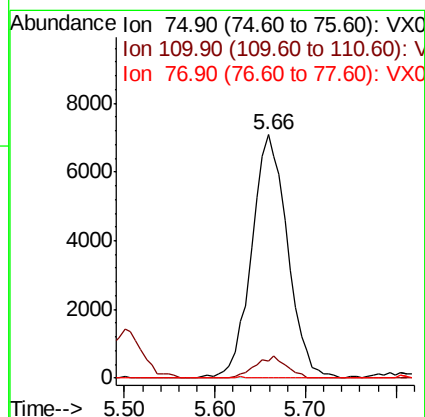
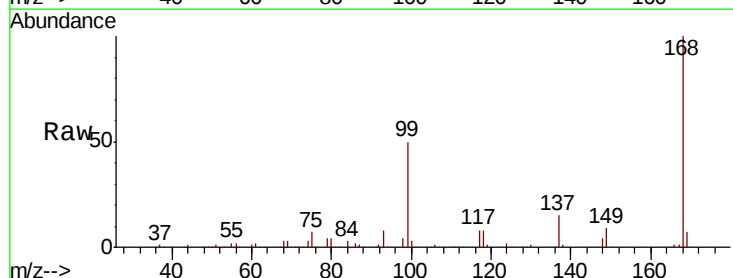
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

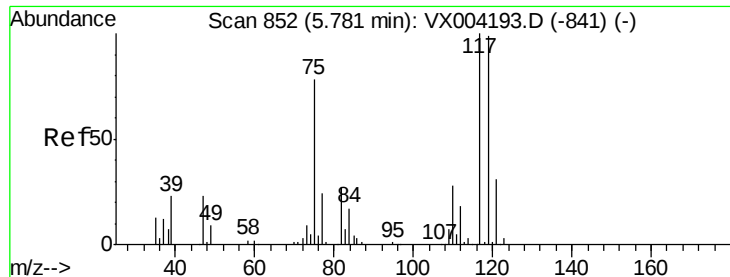
Tot Ion:113 Resp: 180044
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.1 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004411.D
 Acq: 07 Sep 2018 16:58

Tgt Ion: 75 Resp: 19407
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.09 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MW-1

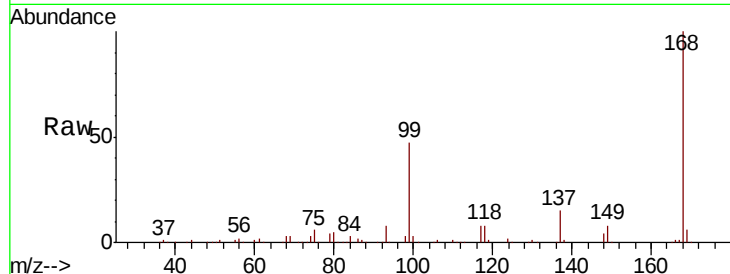
Tot Ion:117 Resp: 25262

Ion Ratio Lower Upper

117 100

119 6.7 78.8 118.2#

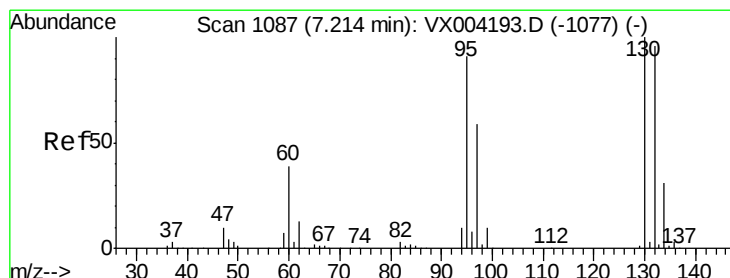
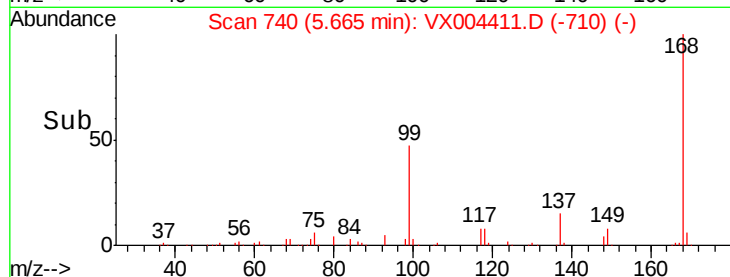
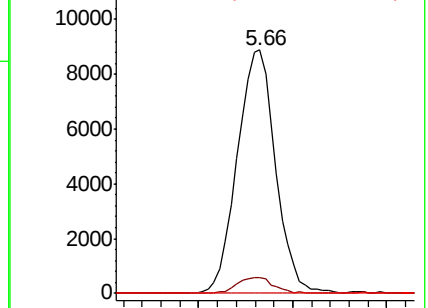
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 46.00 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX004411.D

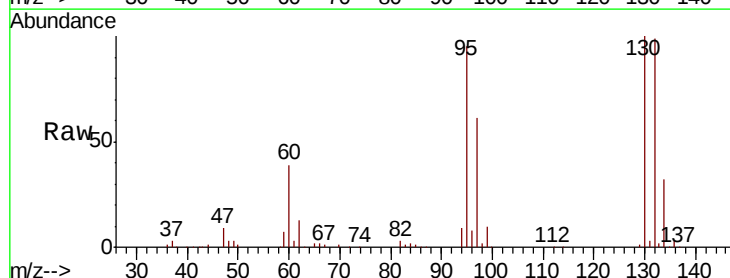
Acq: 07 Sep 2018 16:58

Tgt Ion:130 Resp: 200629

Ion Ratio Lower Upper

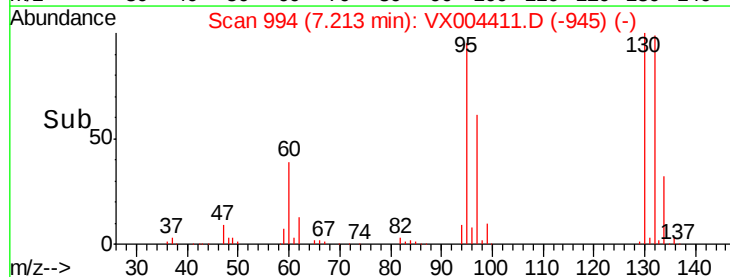
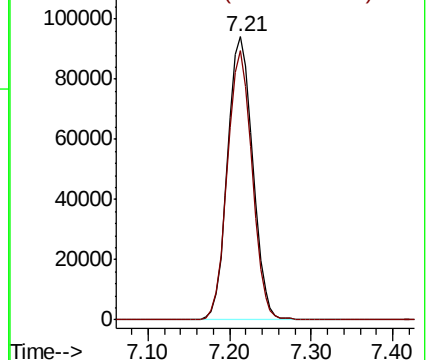
130 100

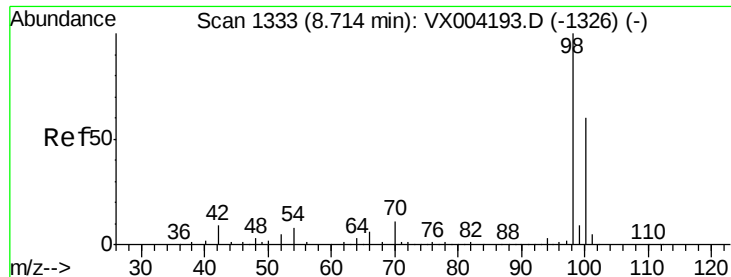
95 95.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.94 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

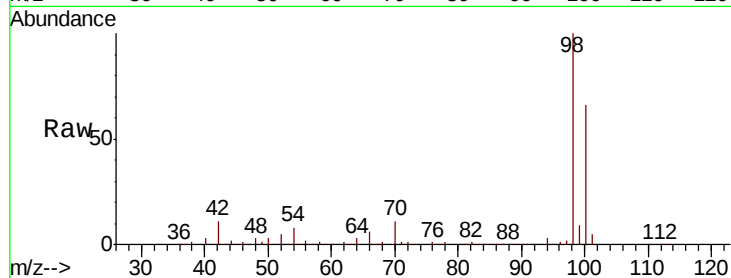
MW-1

Tot Ion: 98 Resp: 670957

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

400000

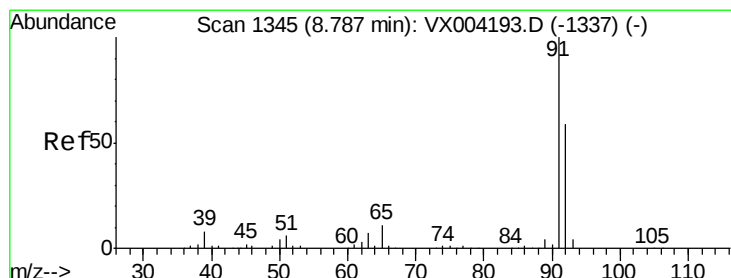
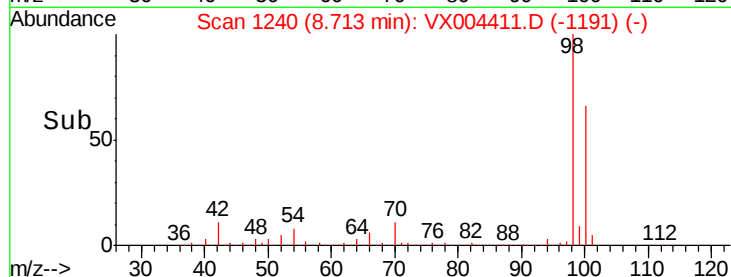
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 0.29 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004411.D

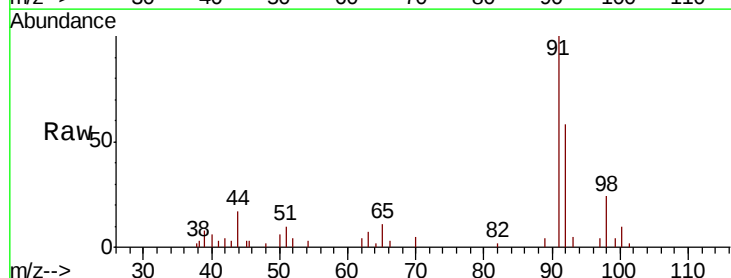
Acq: 07 Sep 2018 16:58

Tgt Ion: 92 Resp: 2815

Ion Ratio Lower Upper

92 100

91 168.6 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

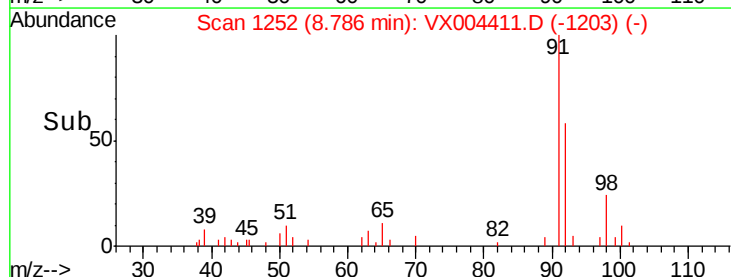
3000

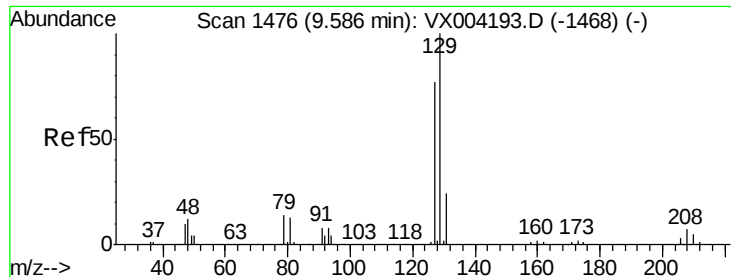
2000

1000

0

Time-->

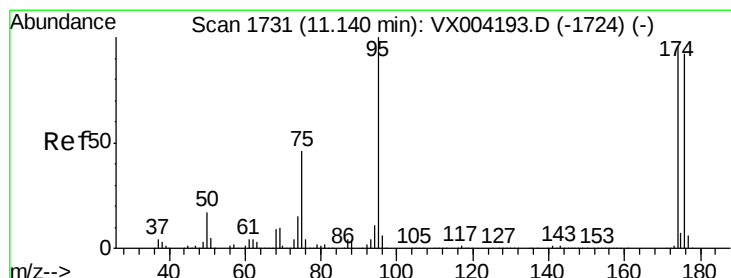
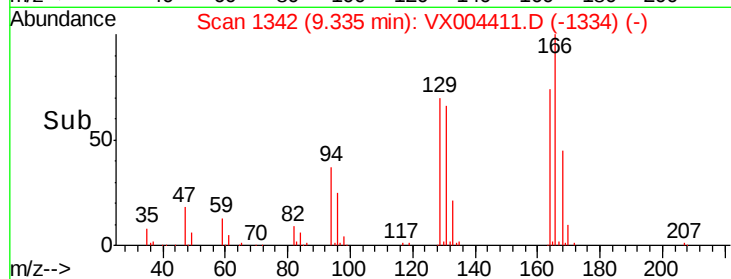
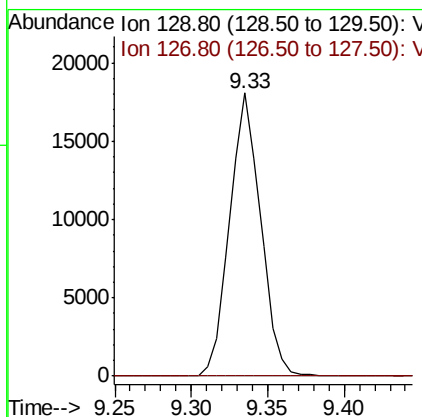
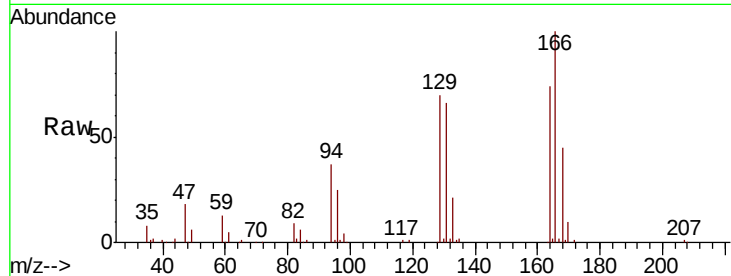




#60
 Dibromochloromethane
 Concen: 6.57 ug/l
 RT: 9.33 min Scan# 1342
 Delta R.T. -0.25 min
 Lab File: VX004411.D
 Acq: 07 Sep 2018 16:58

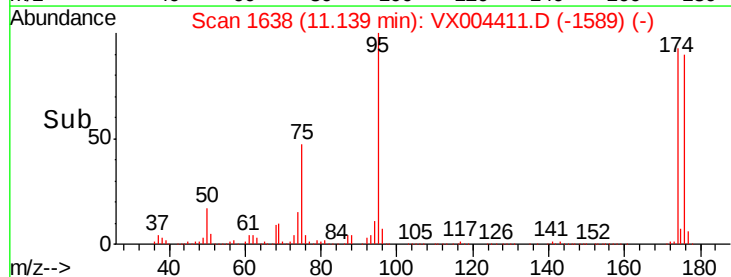
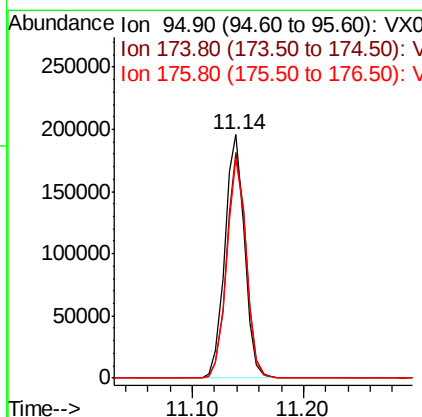
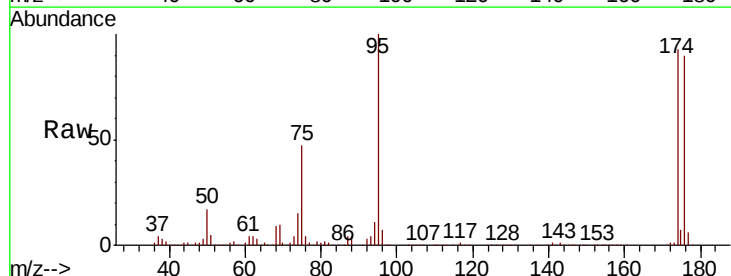
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

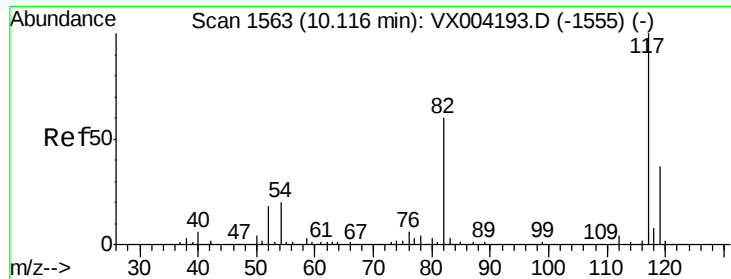
Tot Ion:129 Resp: 25474
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#



#62
 4-Bromofluorobenzene
 Concen: 48.73 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004411.D
 Acq: 07 Sep 2018 16:58

Tgt Ion: 95 Resp: 239449
 Ion Ratio Lower Upper
 95 100
 174 91.5 0.0 185.2
 176 88.7 0.0 178.6

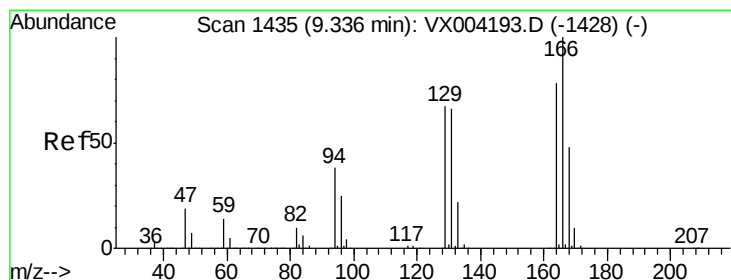
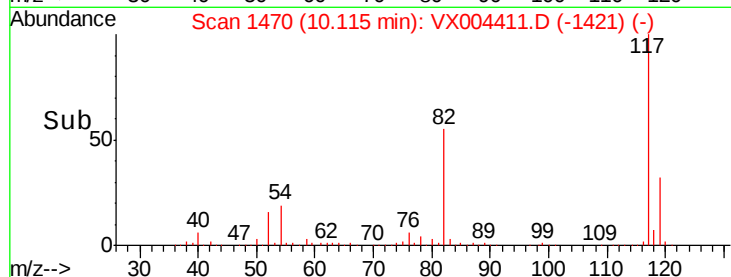
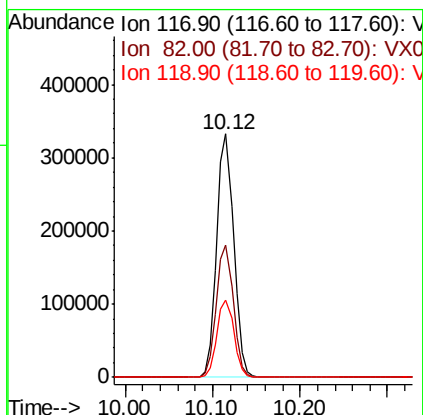
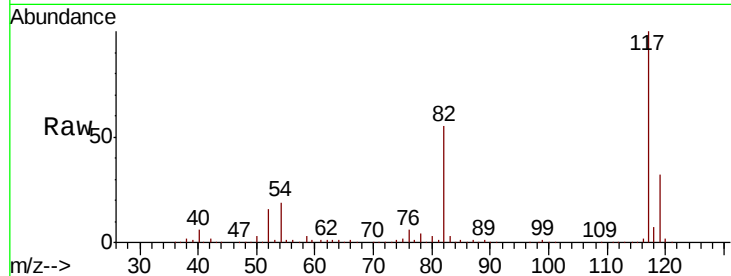




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

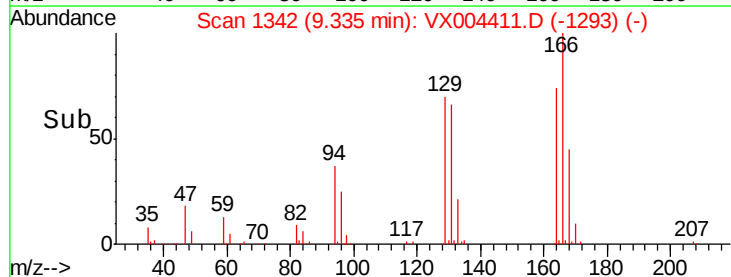
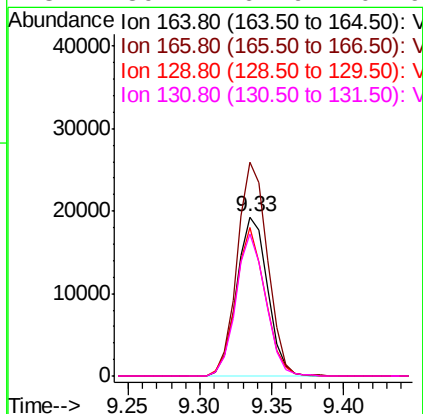
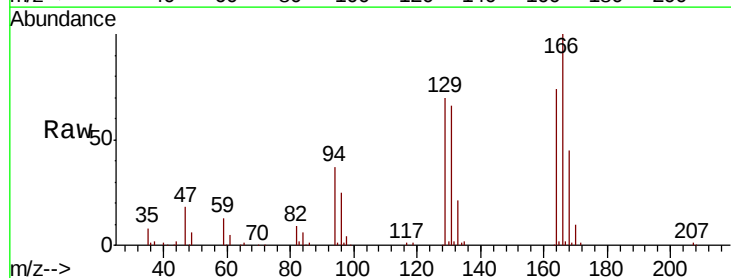
Instrument :
MSVOA_X
ClientSampleId :
MW-1

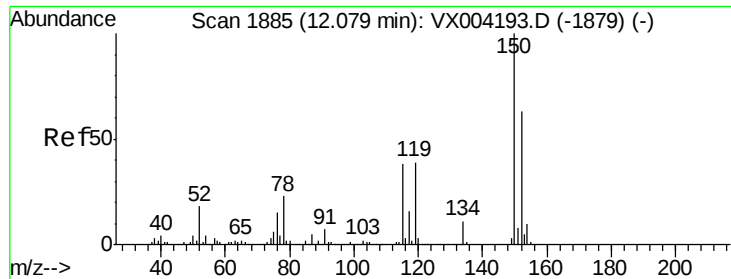
Tot Ion:117 Resp: 448014
Ion Ratio Lower Upper
117 100
82 54.5 47.8 71.6
119 31.9 29.3 43.9



#64
Tetrachloroethene
Concen: 6.52 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

Tgt Ion:164 Resp: 28839
Ion Ratio Lower Upper
164 100
166 134.5 102.8 154.2
129 93.8 69.4 104.0
131 89.2 67.9 101.9



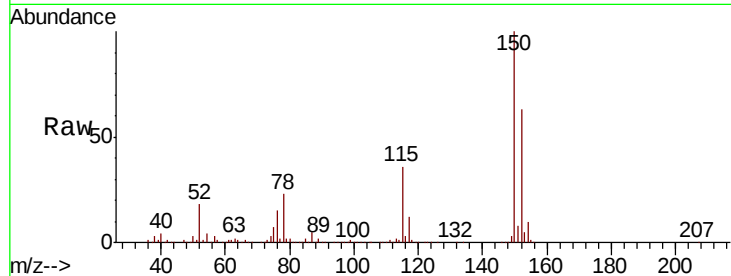


#72

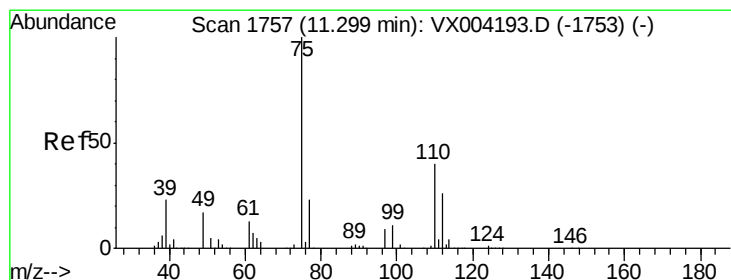
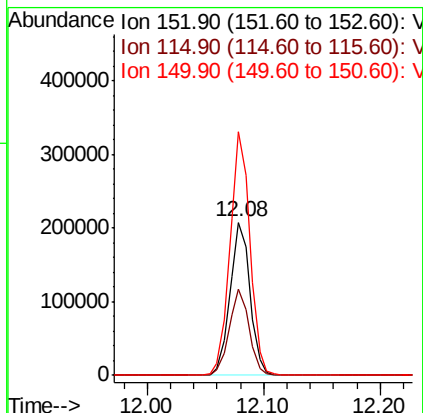
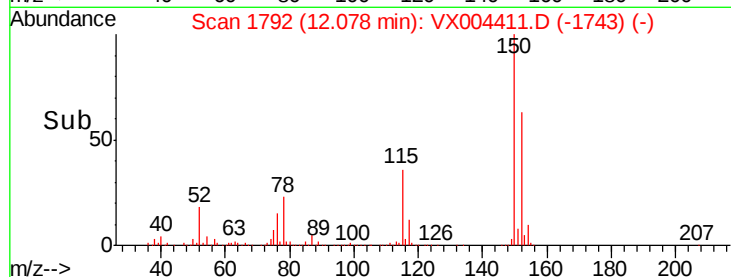
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Tot Ion:152 Resp: 248348
Ion Ratio Lower Upper
152 100
115 55.5 39.0 117.0
150 158.8 0.0 351.0



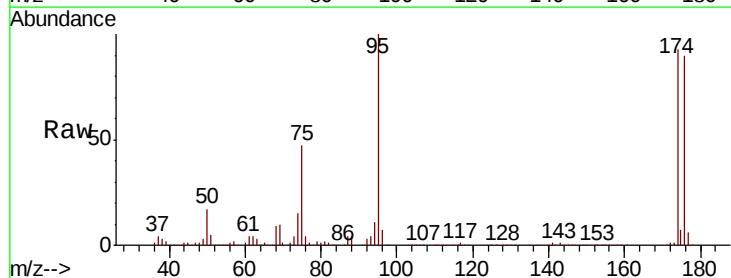
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



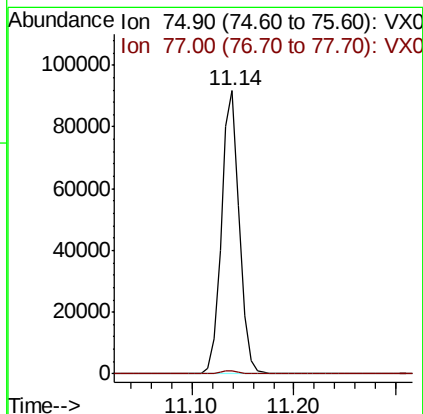
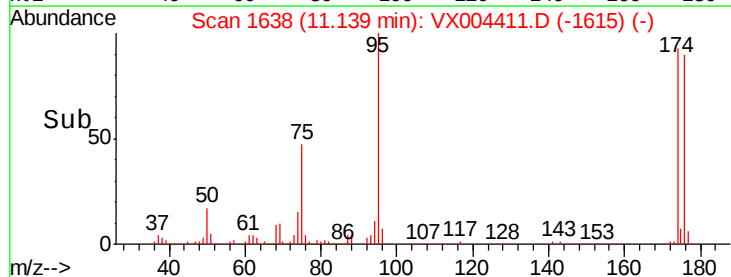
#76

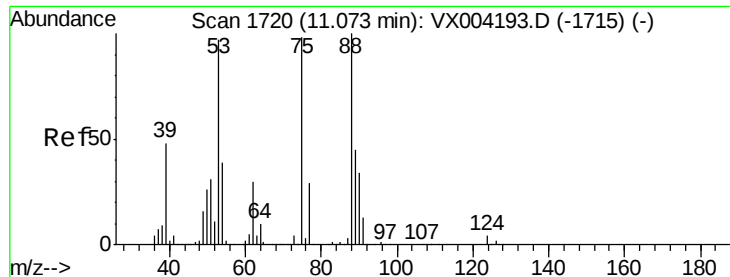
1,2,3-Trichloropropane
Concen: 22.12 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX004411.D
Acq: 07 Sep 2018 16:58

Tgt Ion: 75 Resp: 111707
Ion Ratio Lower Upper
75 100
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.76 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004411.D

Acq: 07 Sep 2018 16:58

Instrument :

MSVOA_X

ClientSampleId :

MW-1

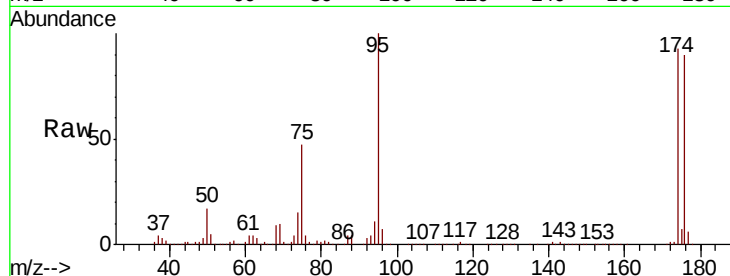
Tot Ion: 75 Resp: 111707

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

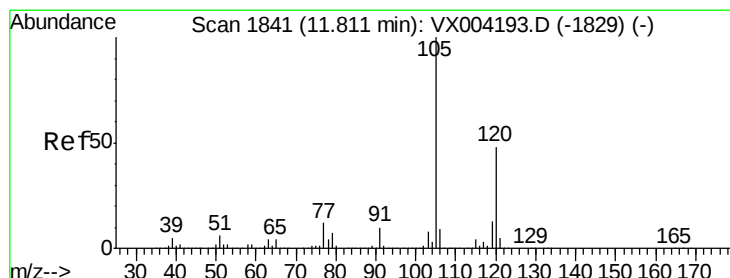
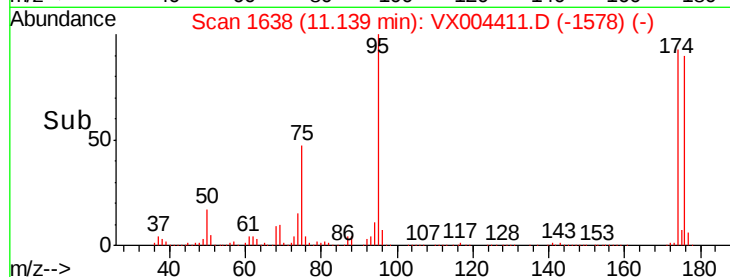
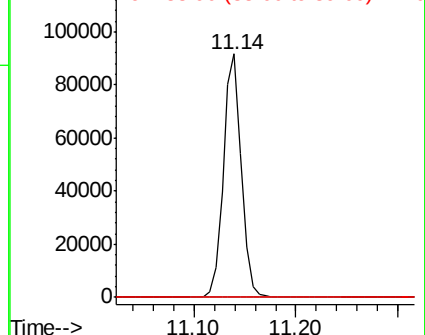


Abundance

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



#84

1,2,4-Trimethylbenzene

Concen: 0.20 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VX004411.D

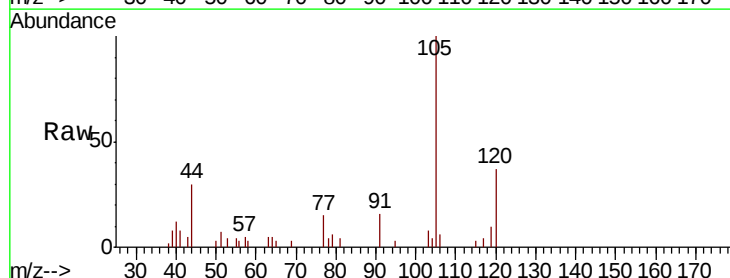
Acq: 07 Sep 2018 16:58

Tgt Ion: 105 Resp: 2804

Ion Ratio Lower Upper

105 100

120 41.6 23.2 69.6



Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

