

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070319\
 Data File : VX010641.D
 Acq On : 03 Jul 2019 15:38
 Operator : JC/SP
 Sample : K3635-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP-23

Quant Time: Jul 04 03:37:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	250021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	385140	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	349653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	161376	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	123592	52.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.44%	
35) Dibromofluoromethane	5.50	113	118710	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
50) Toluene-d8	8.71	98	457007	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.13	95	151643	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	

Target Compounds

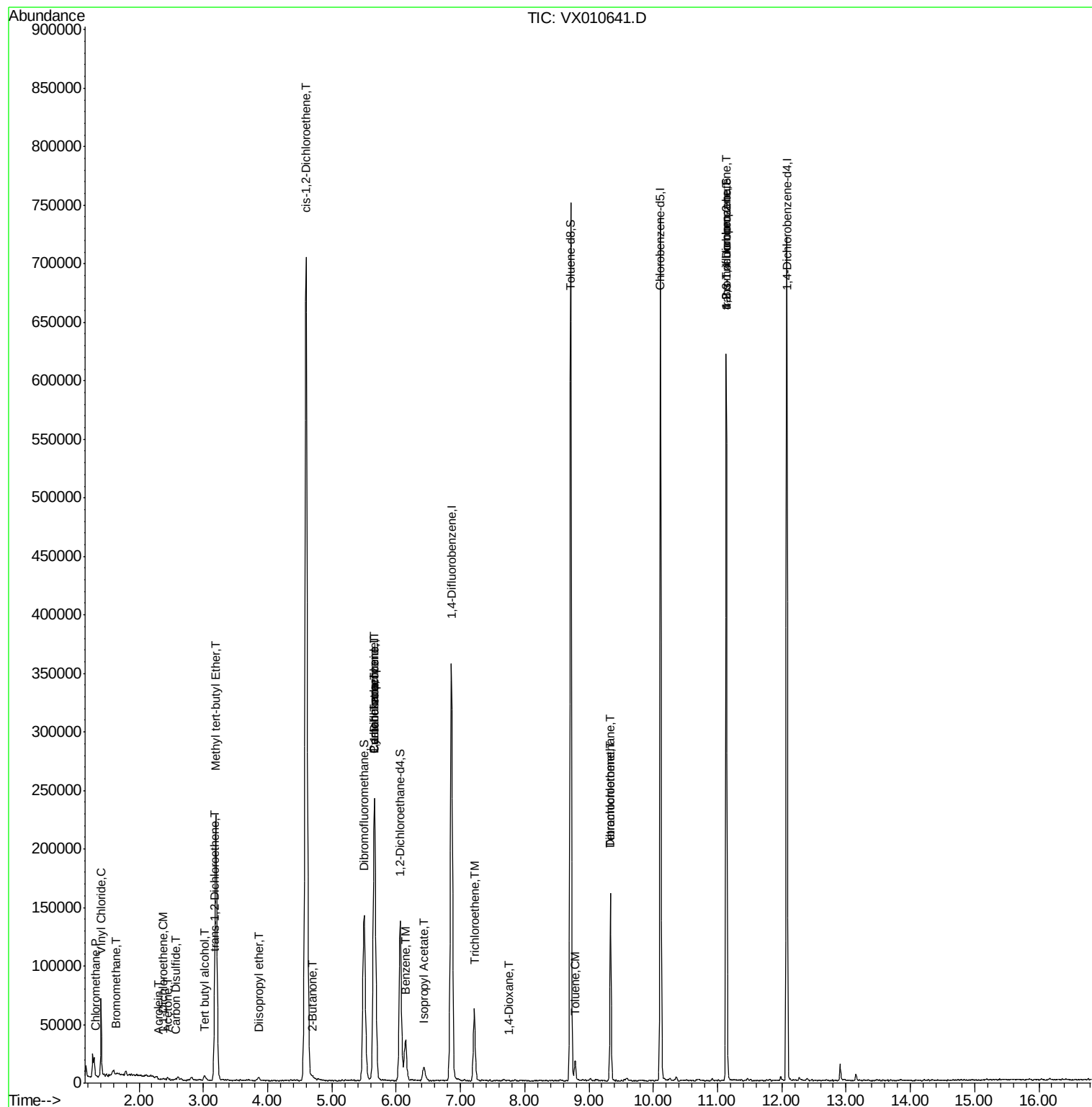
						Qvalue
3) Chloromethane	1.32	50	437	0.216	ug/l #	85
4) Vinyl Chloride	1.41	62	40378	18.213	ug/l	100
5) Bromomethane	1.65	94	792	0.733	ug/l	83
11) Tert butyl alcohol	3.03	59	2887	4.707	ug/l #	74
12) 1,1-Dichloroethene	2.37	96	446	0.206	ug/l #	67
13) Acrolein	2.30	56	292	0.718	ug/l #	14
16) Acetone	2.44	43	2876	2.448	ug/l	94
17) Carbon Disulfide	2.57	76	1910	0.329	ug/l #	91
19) Methyl tert-butyl Ether	3.20	73	268583	39.396	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	1660	0.712	ug/l	97
22) Diisopropyl ether	3.86	45	3337	0.519	ug/l #	68
25) 2-Butanone	4.70	43	1197	0.695	ug/l #	65
27) cis-1,2-Dichloroethene	4.60	96	482609	179.183	ug/l	92
31) Cyclohexane	5.67	56	5082	1.501	ug/l #	19
36) 1,1-Dichloropropene	5.66	75	15650	5.113	ug/l #	48
38) Carbon Tetrachloride	5.66	117	22572	6.811	ug/l #	16
40) Benzene	6.15	78	42742	4.483	ug/l	97
43) Isopropyl Acetate	6.43	43	4558	0.875	ug/l #	23
44) Trichloroethene	7.21	130	24049	8.429	ug/l	96
49) 1,4-Dioxane	7.76	88	19	0.272	ug/l #	1
52) Toluene	8.79	92	6354	1.012	ug/l	98
60) Dibromochloromethane	9.34	129	29004	10.003	ug/l #	11
64) Tetrachloroethene	9.34	164	31570	11.163	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	74663	25.390	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	74663	59.231	ug/l #	16

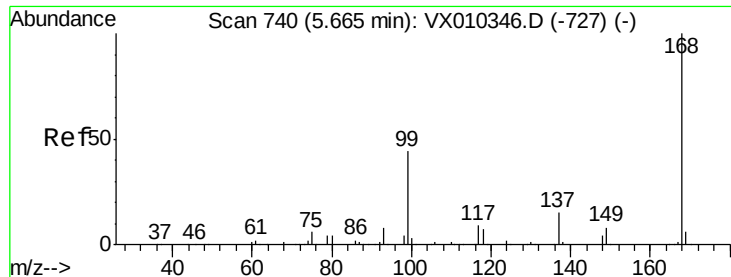
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

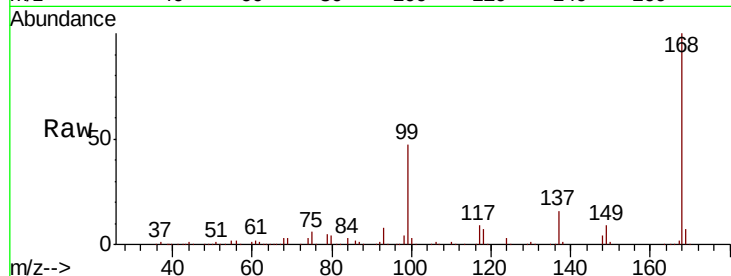
WP-23

Tot Ion:168 Resp: 250021

Ion Ratio Lower Upper

168 100

99 47.2 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

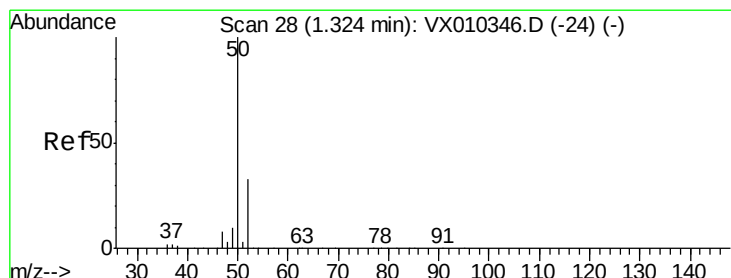
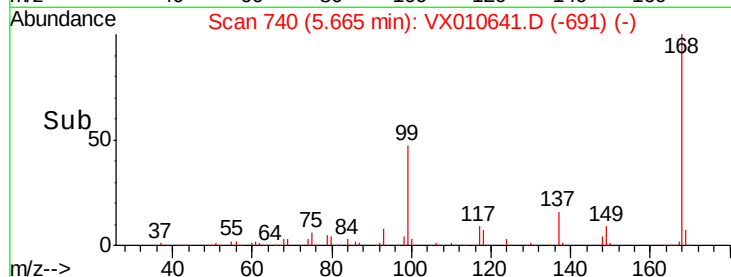
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010641.D

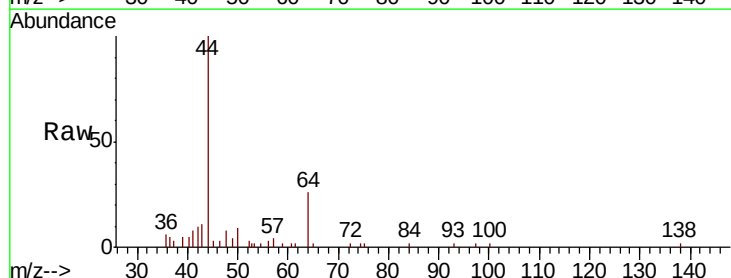
Acq: 03 Jul 2019 15:38

Tgt Ion: 50 Resp: 437

Ion Ratio Lower Upper

50 100

52 41.5 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

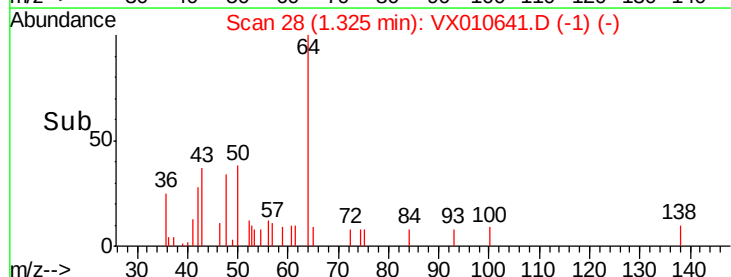
300

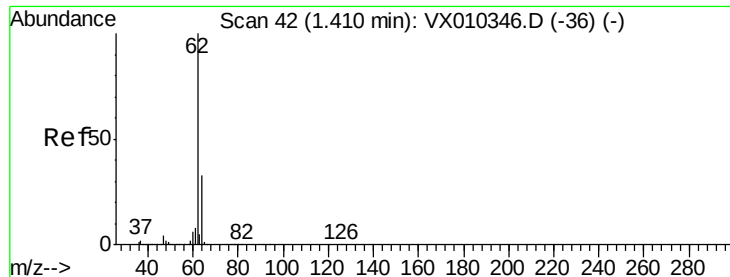
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 18.213 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

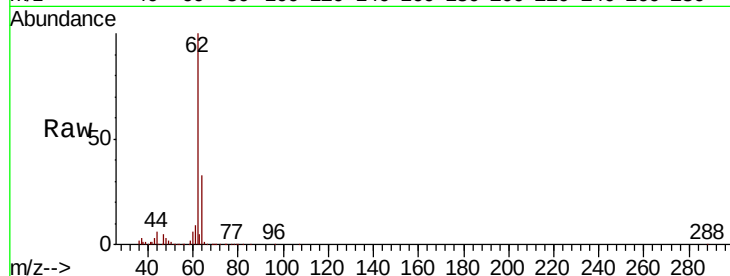
WP-23

Tot Ion: 62 Resp: 40378

Ion Ratio Lower Upper

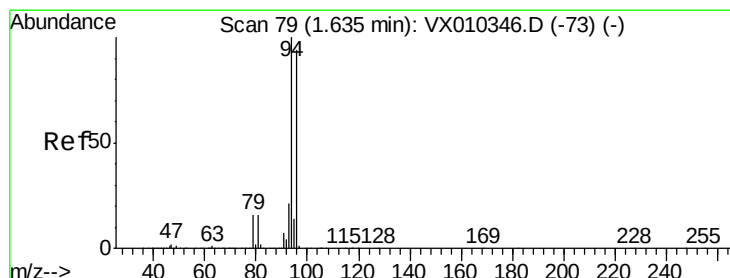
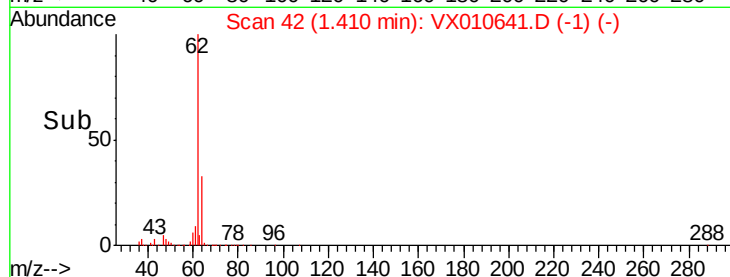
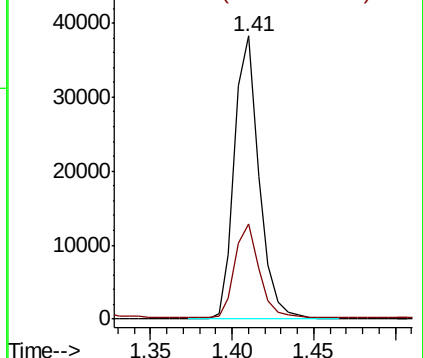
62 100

64 33.0 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.733 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010641.D

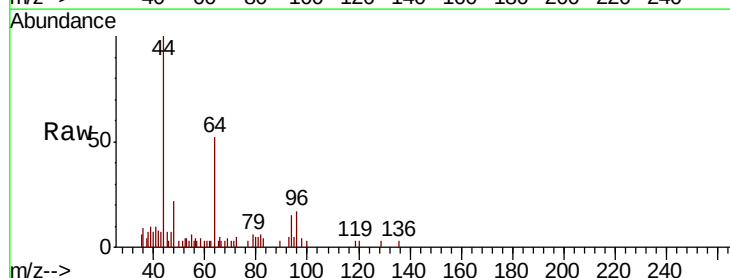
Acq: 03 Jul 2019 15:38

Tgt Ion: 94 Resp: 792

Ion Ratio Lower Upper

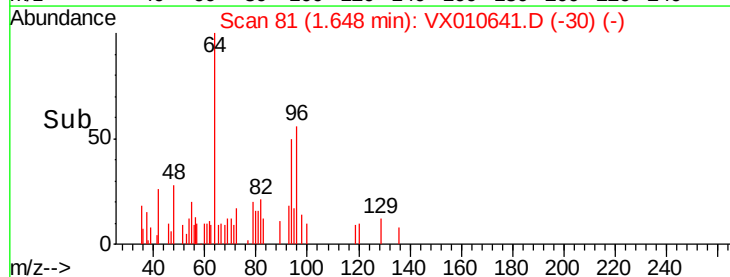
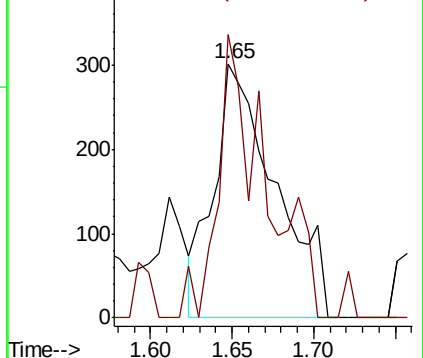
94 100

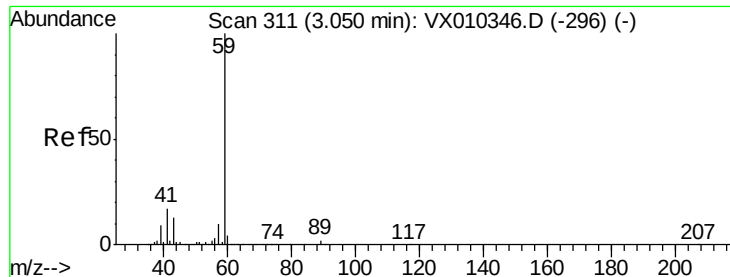
96 111.3 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



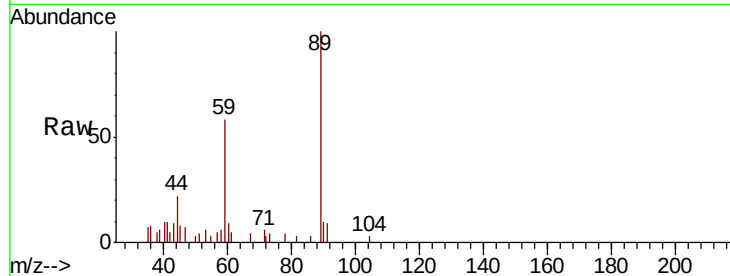


#11

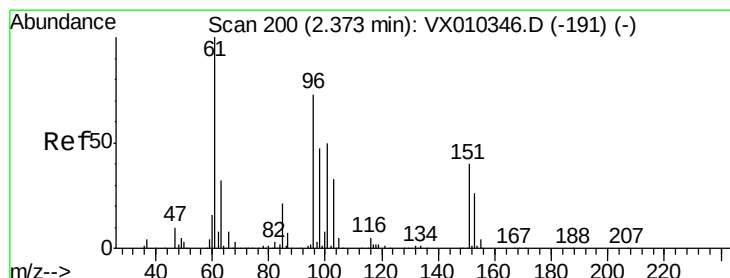
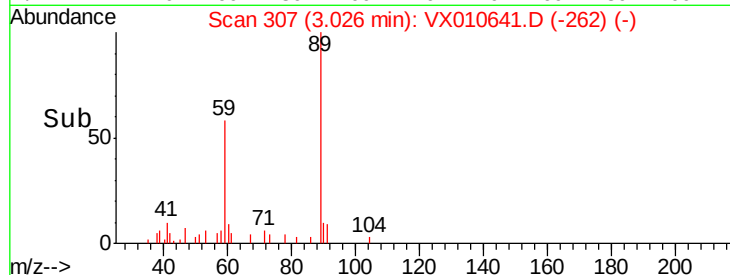
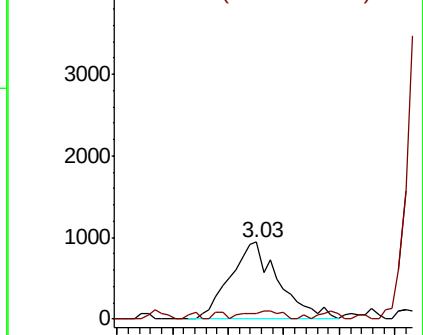
Tert butyl alcohol
Concen: 4.707 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX010641.D
Acq: 03 Jul 2019 15:38

Instrument :
MSVOA_X
ClientSampleId :
WP-23

Tot Ion: 59 Resp: 2887
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



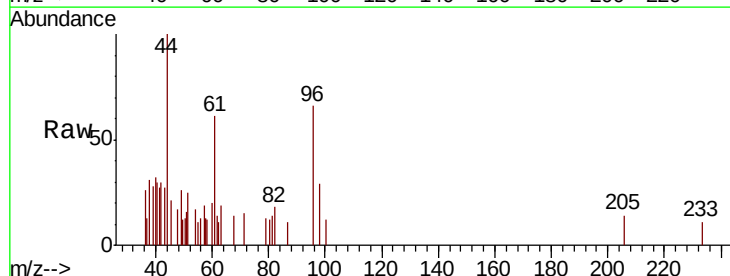
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



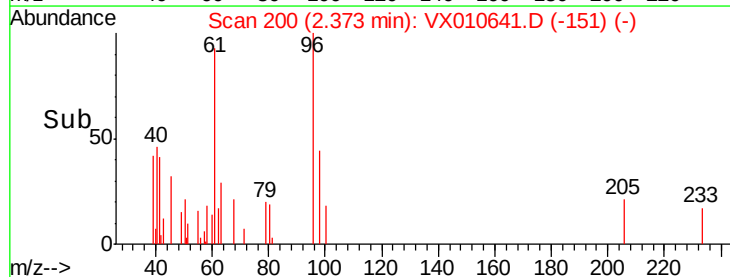
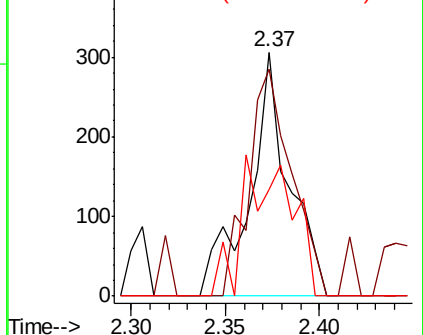
#12

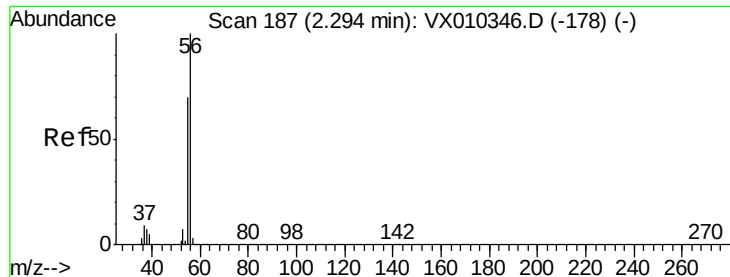
1,1-Dichloroethene
Concen: 0.206 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX010641.D
Acq: 03 Jul 2019 15:38

Tgt Ion: 96 Resp: 446
Ion Ratio Lower Upper
96 100
61 93.1 109.2 163.8#
98 43.8 51.1 76.7#



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





#13

Acrolein

Concen: 0.718 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

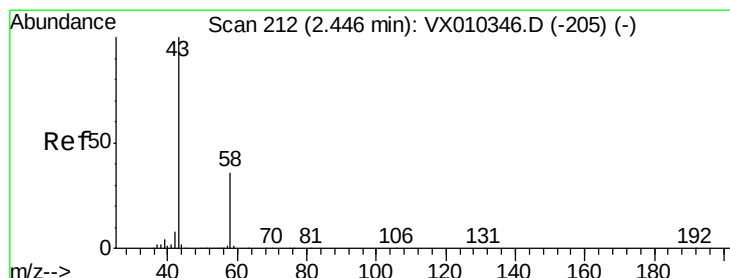
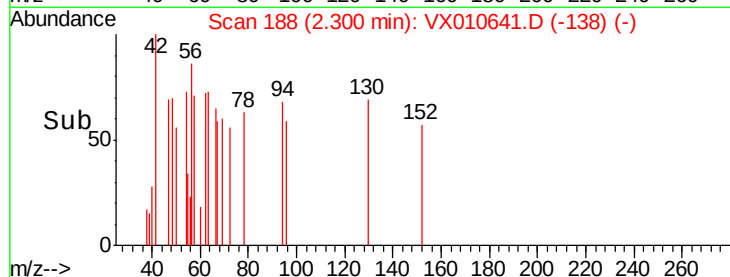
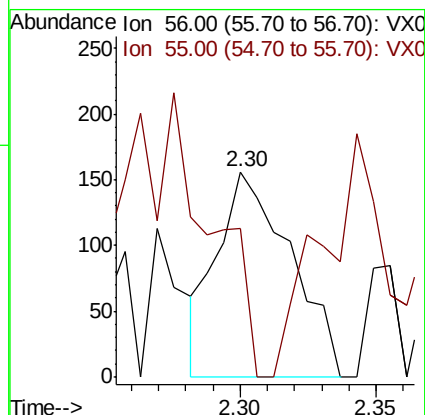
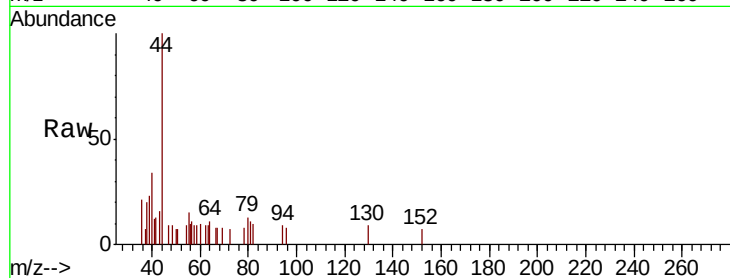
WP-23

Tot Ion: 56 Resp: 292

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 2.448 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010641.D

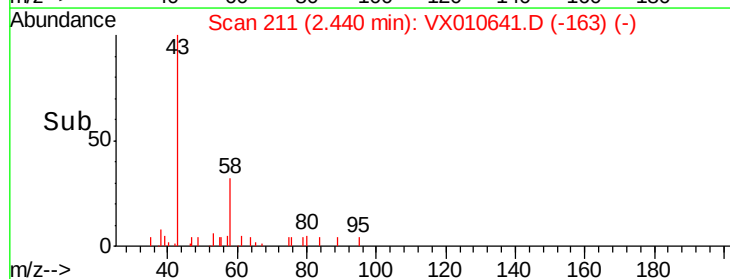
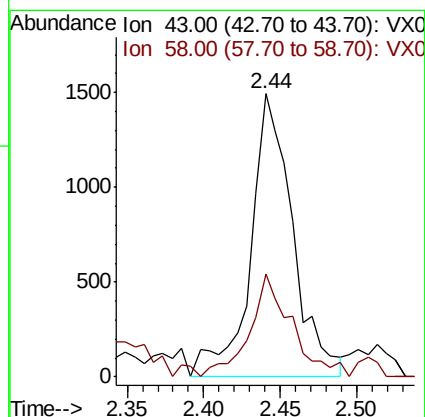
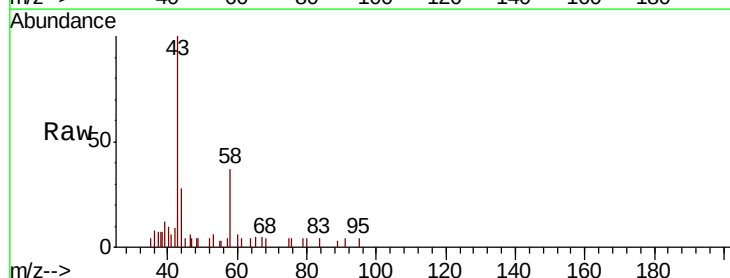
Acq: 03 Jul 2019 15:38

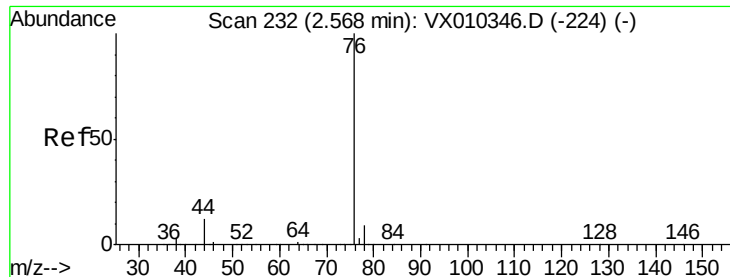
Tgt Ion: 43 Resp: 2876

Ion Ratio Lower Upper

43 100

58 32.6 28.9 43.3





#17

Carbon Disulfide

Concen: 0.329 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

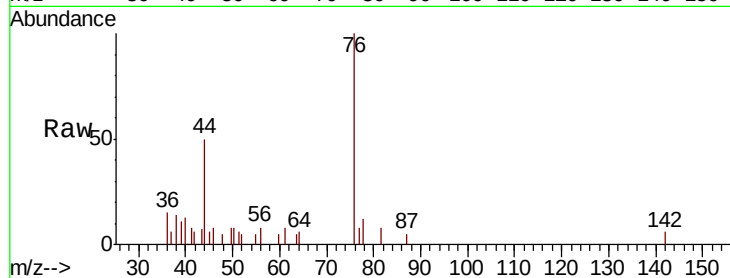
WP-23

Tot Ion: 76 Resp: 1910

Ion Ratio Lower Upper

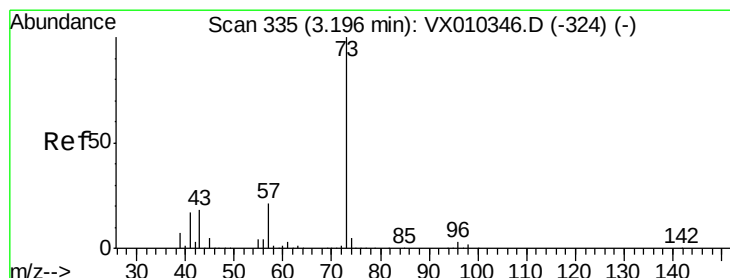
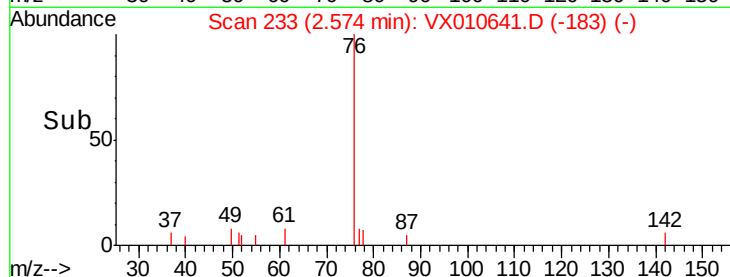
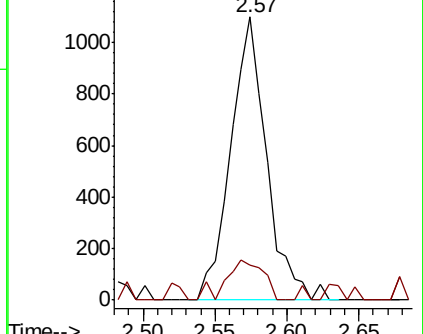
76 100

78 12.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 39.396 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.00 min

Lab File: VX010641.D

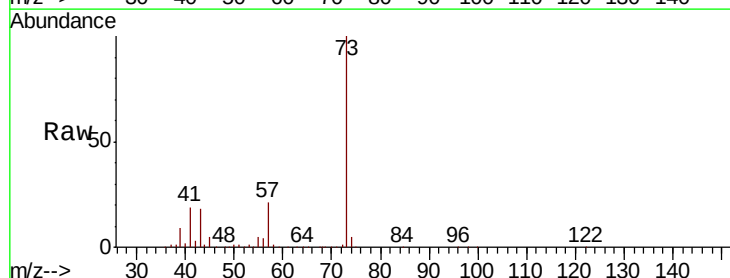
Acq: 03 Jul 2019 15:38

Tgt Ion: 73 Resp: 268583

Ion Ratio Lower Upper

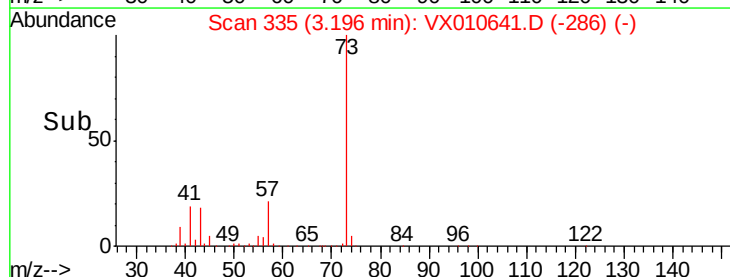
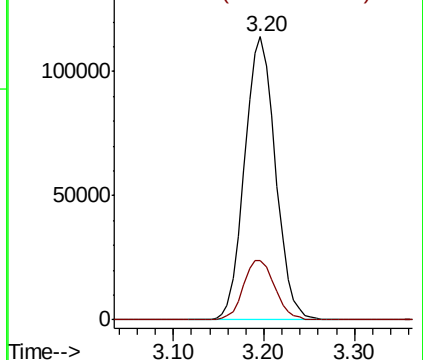
73 100

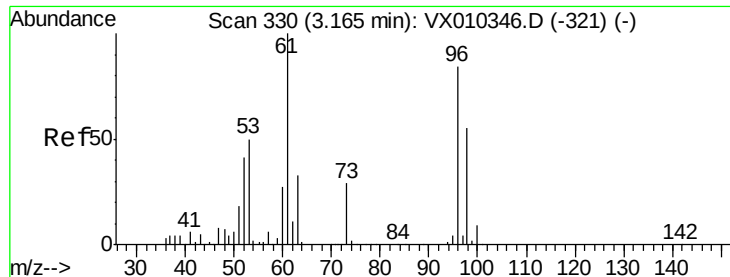
57 20.8 16.4 24.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.712 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

WP-23

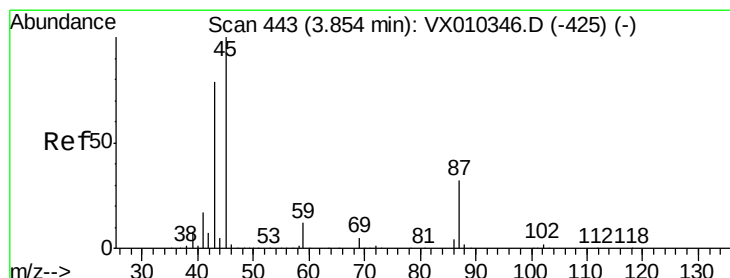
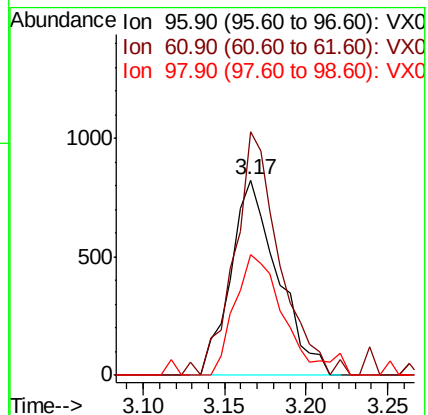
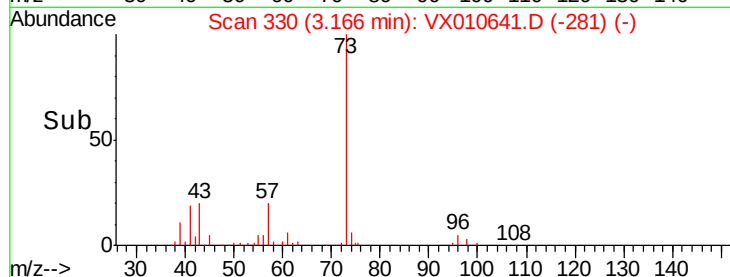
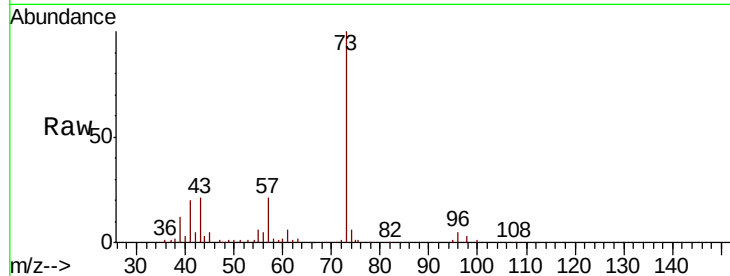
Tot Ion: 96 Resp: 1660

Ion Ratio Lower Upper

96 100

61 118.1 95.6 143.4

98 61.7 52.5 78.7



#22

Diisopropyl ether

Concen: 0.519 ug/l

RT: 3.86 min Scan# 444

Delta R.T. 0.01 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Tgt Ion: 45 Resp: 3337

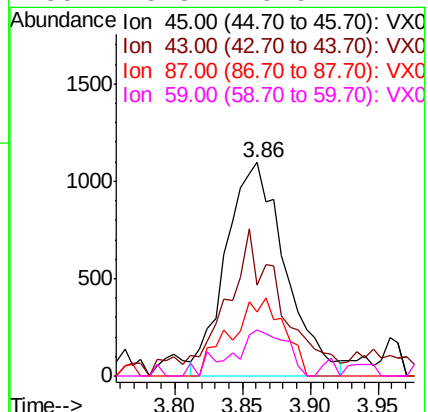
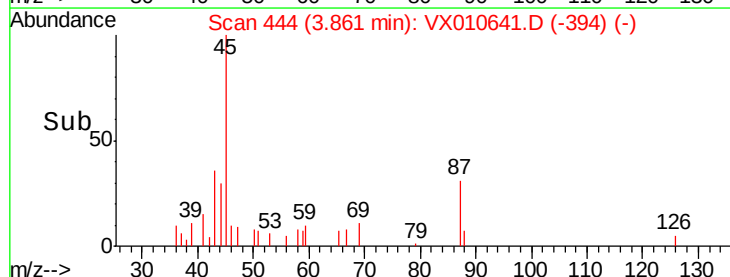
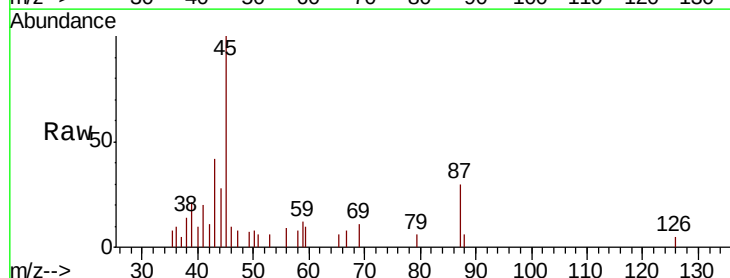
Ion Ratio Lower Upper

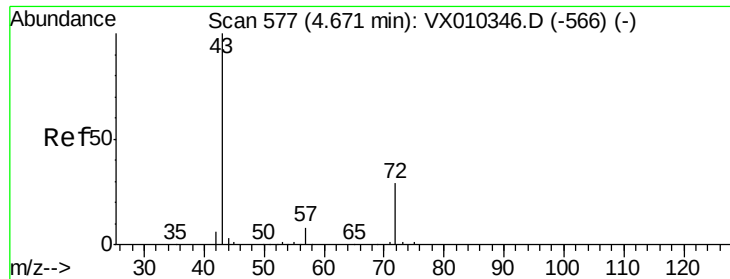
45 100

43 39.1 63.3 94.9#

87 31.9 25.8 38.8

59 23.3 9.6 14.4#





#25

2-Butanone

Concen: 0.695 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

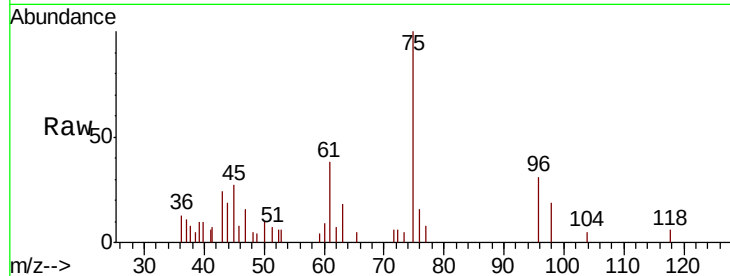
WP-23

Tot Ion: 43 Resp: 1197

Ion Ratio Lower Upper

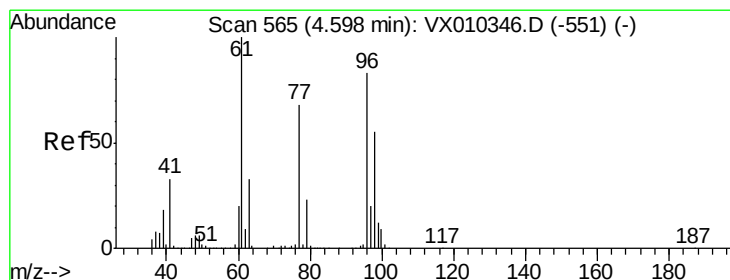
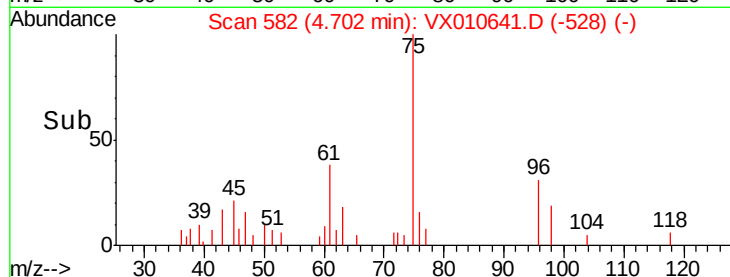
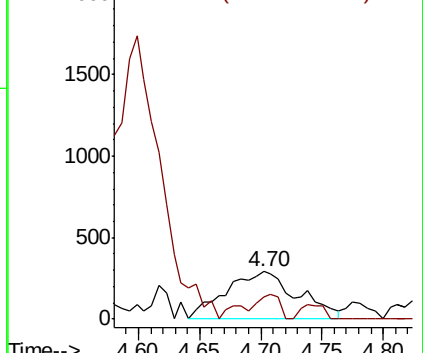
43 100

72 47.8 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 179.183 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

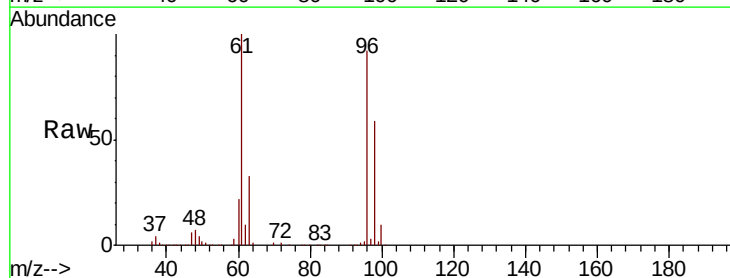
Tgt Ion: 96 Resp: 482609

Ion Ratio Lower Upper

96 100

61 111.3 0.0 251.8

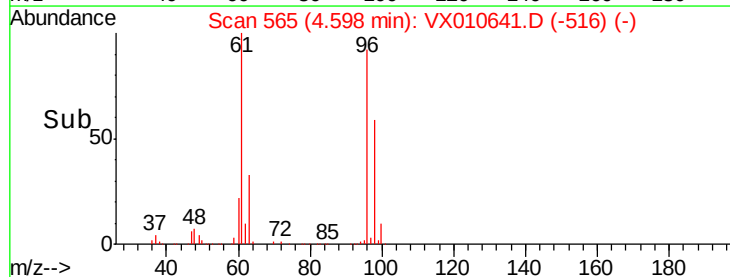
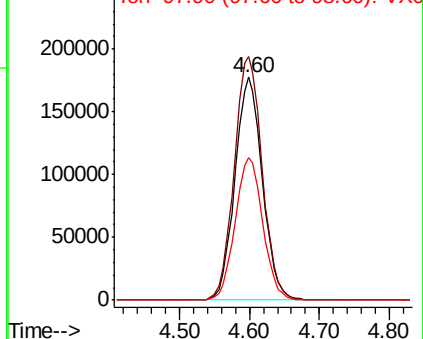
98 64.6 0.0 129.4

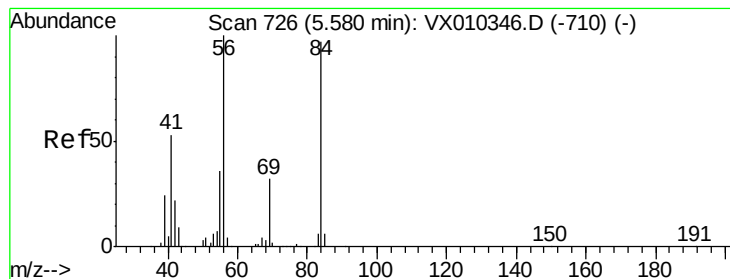


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.501 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

WP-23

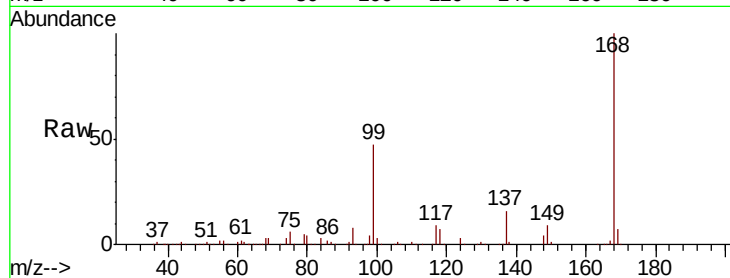
Tot Ion: 56 Resp: 5082

Ion Ratio Lower Upper

56 100

69 144.2 25.9 38.9#

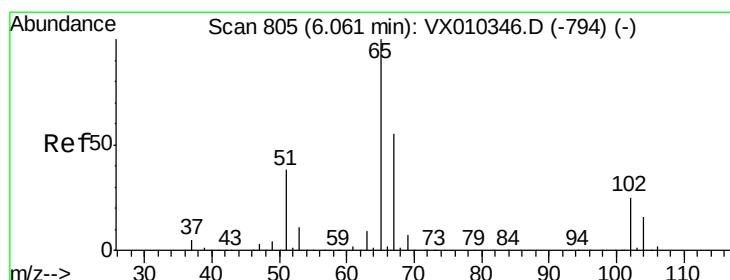
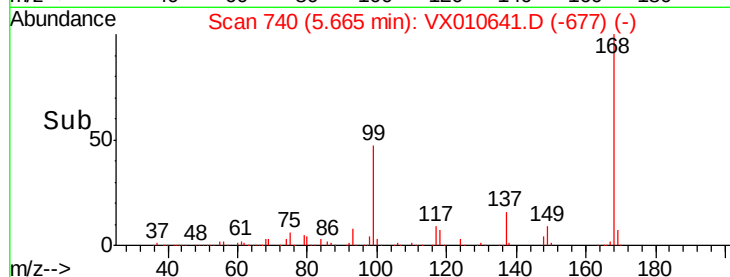
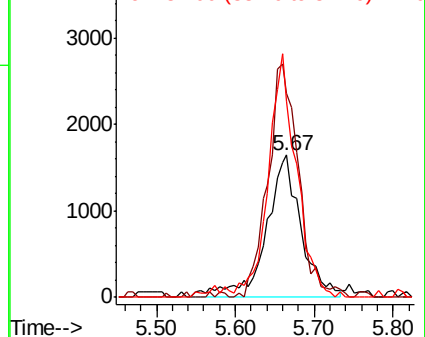
84 138.1 78.0 117.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.723 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010641.D

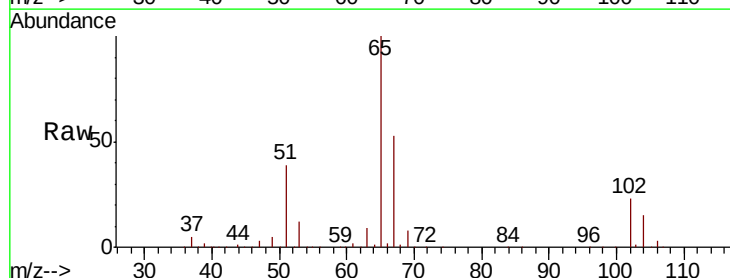
Acq: 03 Jul 2019 15:38

Tgt Ion: 65 Resp: 123592

Ion Ratio Lower Upper

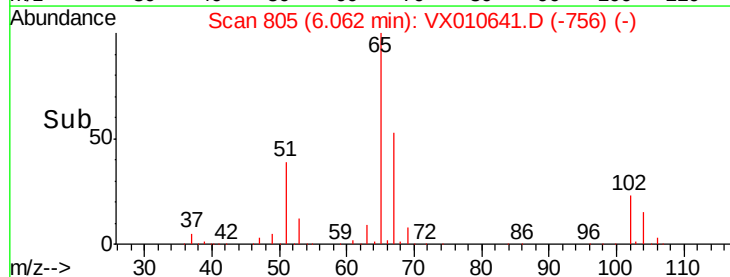
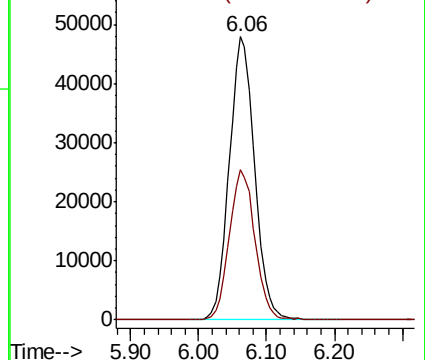
65 100

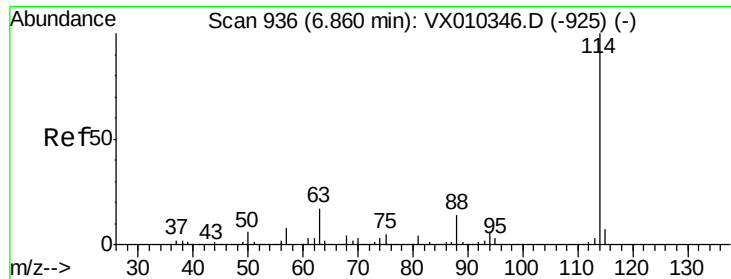
67 53.8 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

WP-23

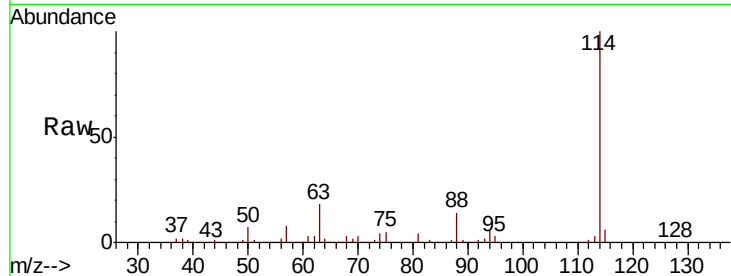
Tot Ion:114 Resp: 385140

Ion Ratio Lower Upper

114 100

63 18.0 0.0 33.8

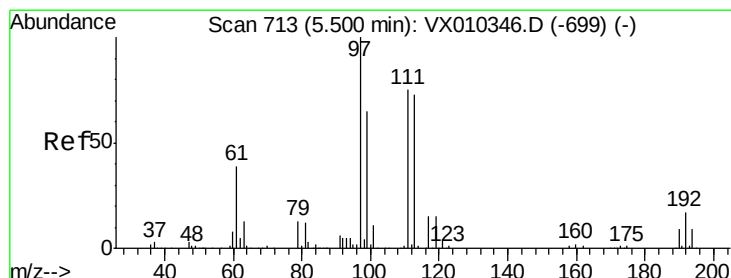
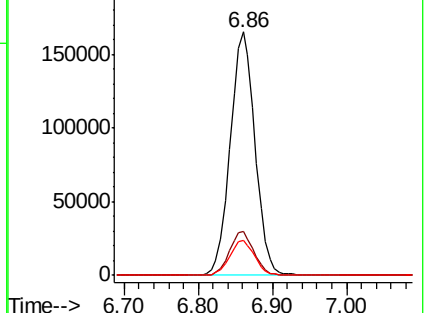
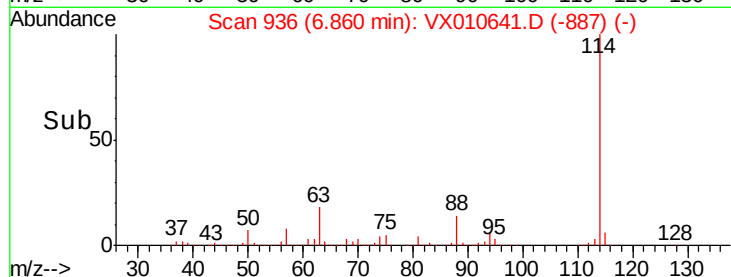
88 14.4 0.0 27.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.377 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

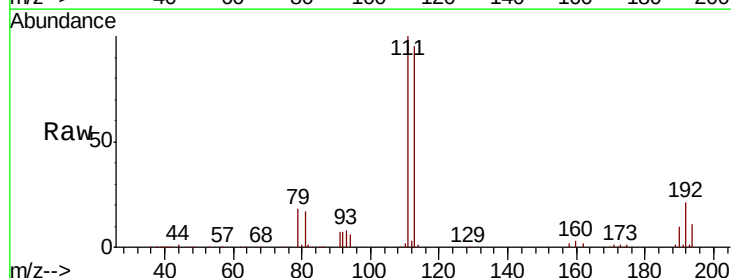
Tgt Ion:113 Resp: 118710

Ion Ratio Lower Upper

113 100

111 102.9 81.2 121.8

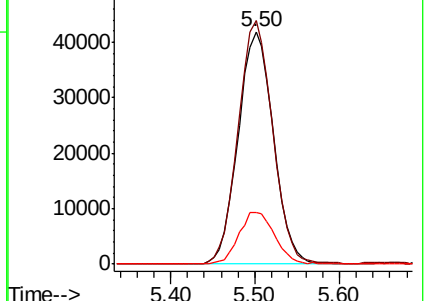
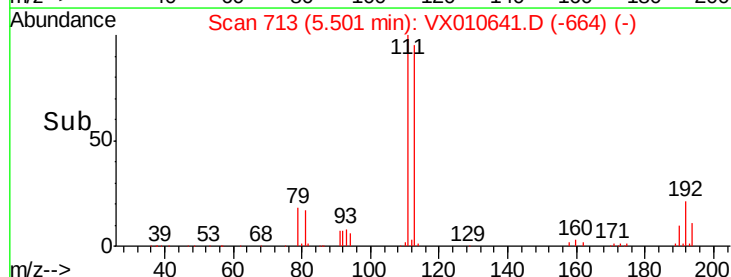
192 22.7 18.6 27.8

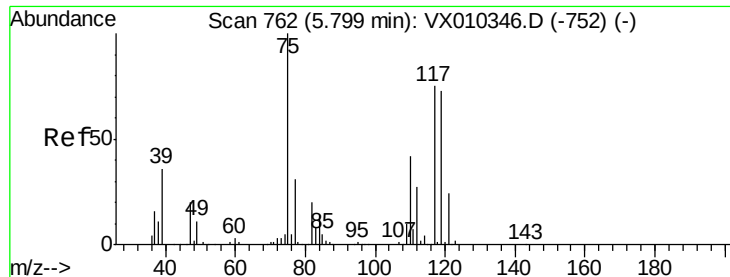


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

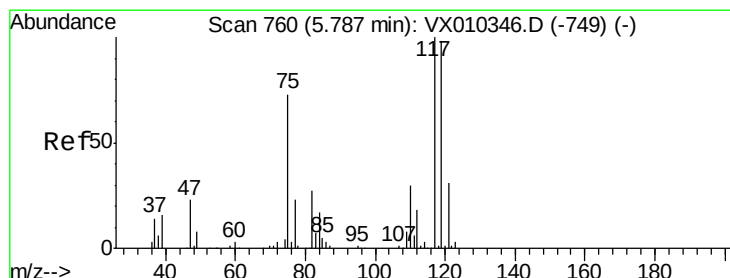
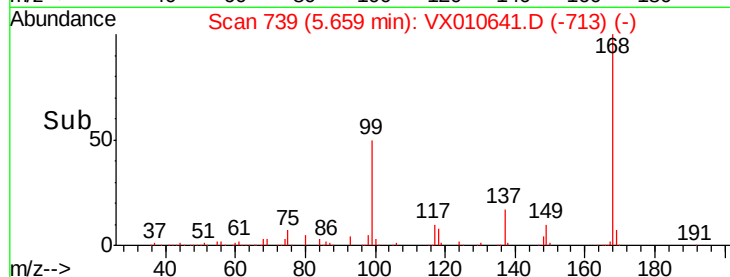
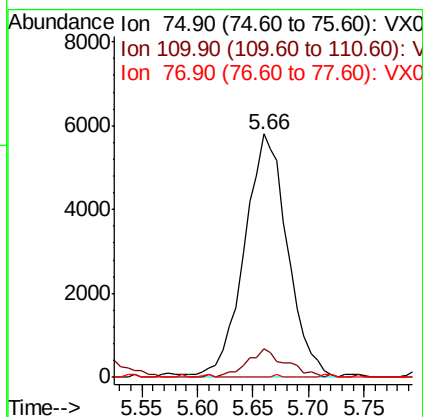
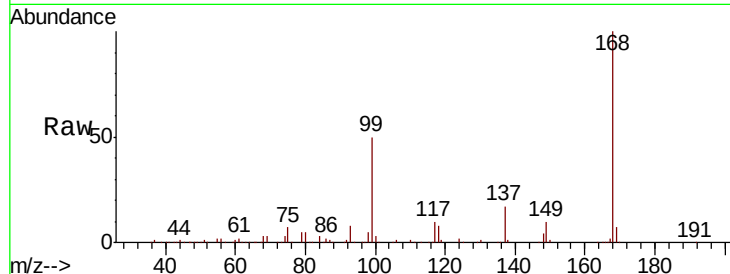




#36
 1,1-Dichloropropene
 Concen: 5.113 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010641.D
 Acq: 03 Jul 2019 15:38

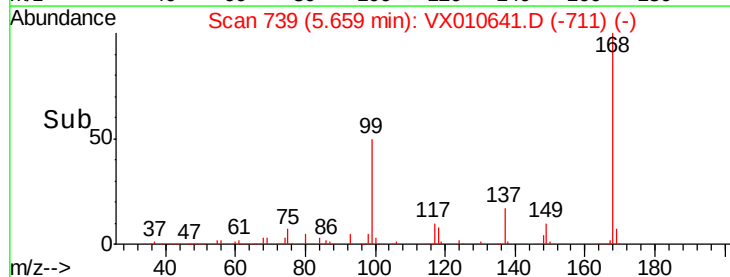
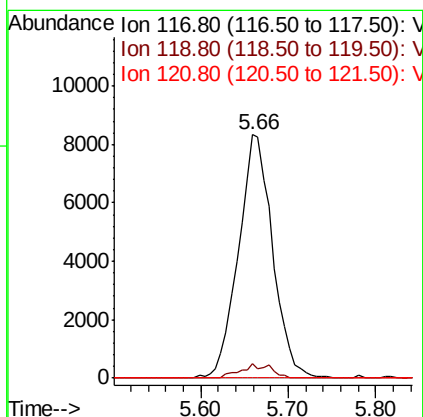
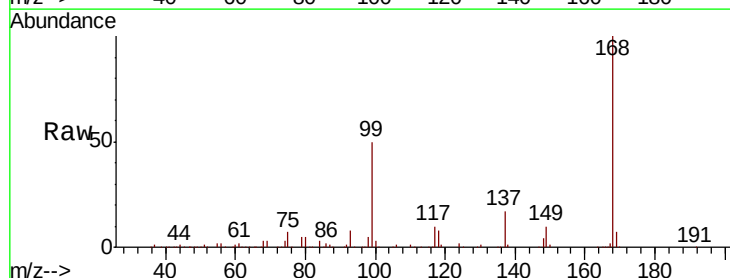
Instrument :
 MSVOA_X
 ClientSampleId :
 WP-23

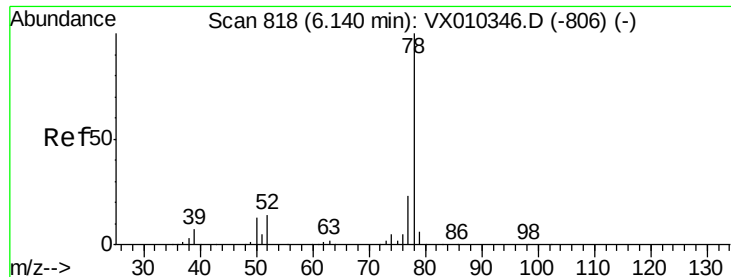
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.8	62.2#
77	0.1	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.811 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010641.D
 Acq: 03 Jul 2019 15:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	78.2	117.4#
121	0.0	24.7	37.1#





#40

Benzene

Concen: 4.483 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

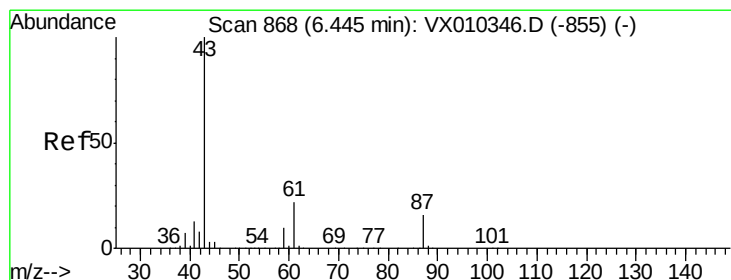
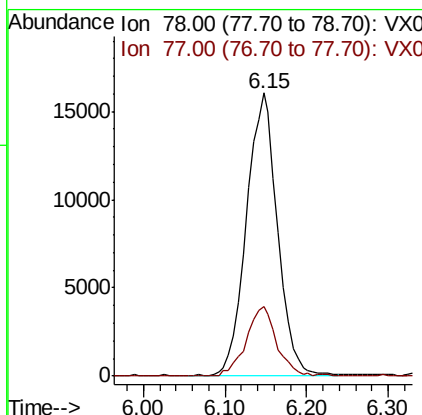
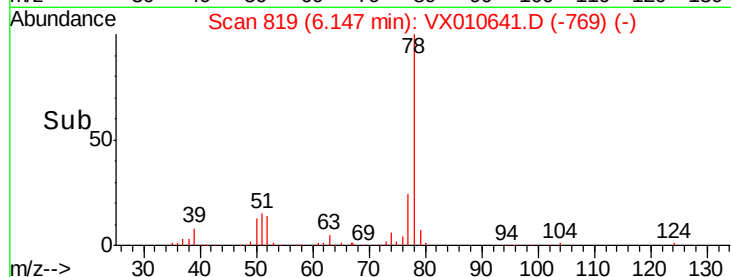
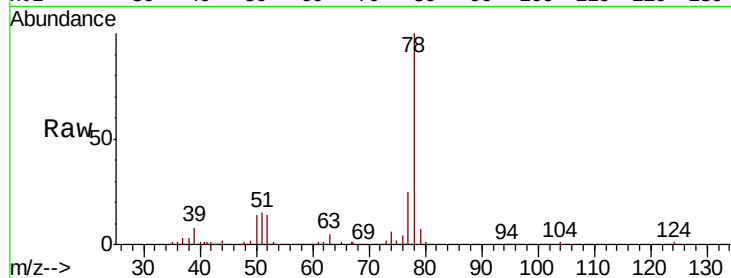
WP-23

Tot Ion: 78 Resp: 42742

Ion Ratio Lower Upper

78 100

77 24.6 18.6 28.0



#43

Isopropyl Acetate

Concen: 0.875 ug/l

RT: 6.43 min Scan# 866

Delta R.T. -0.01 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

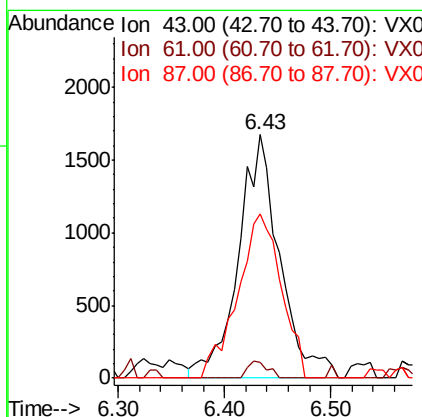
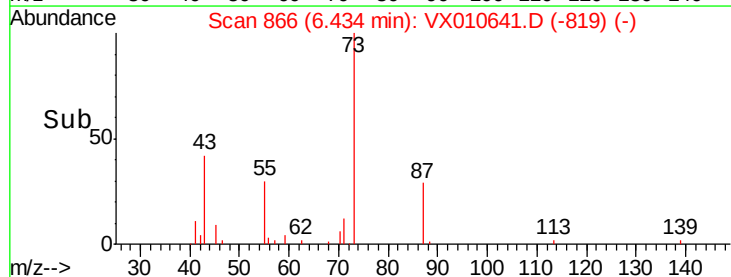
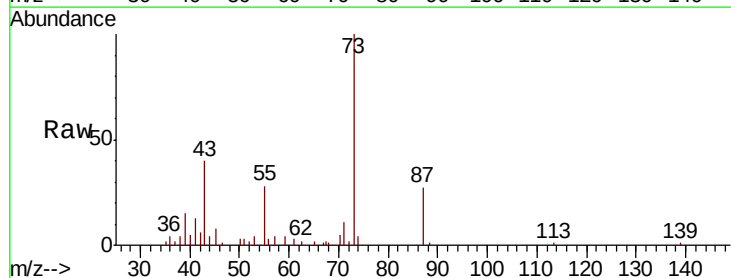
Tgt Ion: 43 Resp: 4558

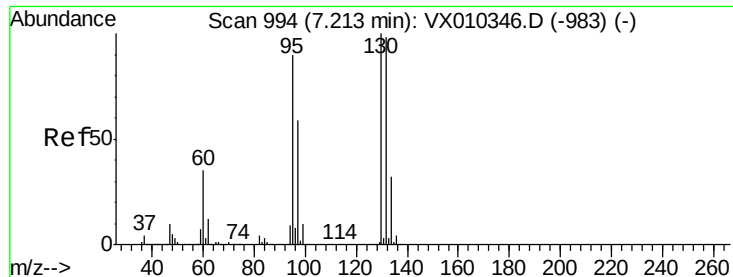
Ion Ratio Lower Upper

43 100

61 3.3 17.8 26.6#

87 70.8 13.0 19.4#





#44

Trichloroethene

Concen: 8.429 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

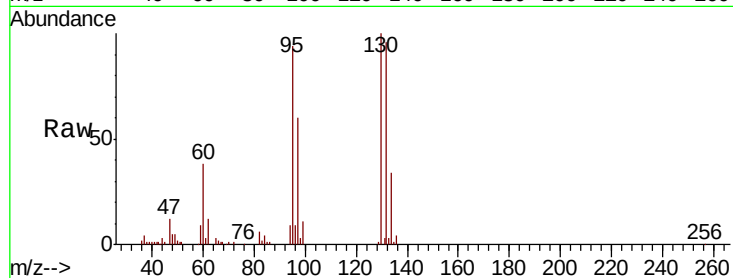
WP-23

Tot Ion:130 Resp: 24049

Ion Ratio Lower Upper

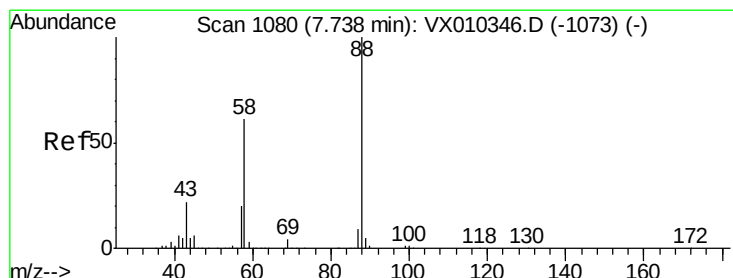
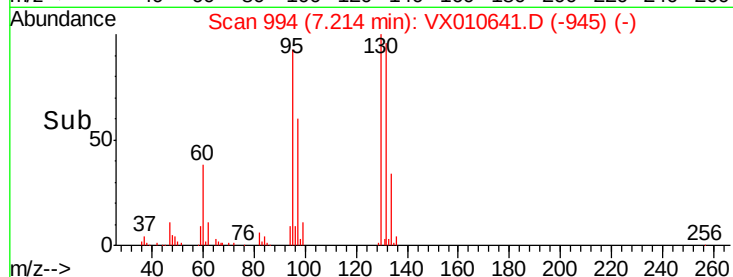
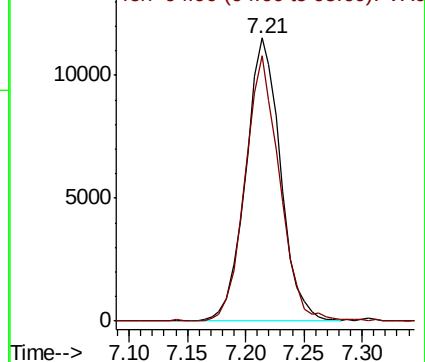
130 100

95 93.8 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.272 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

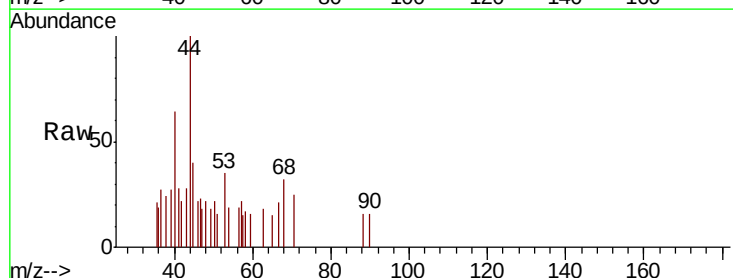
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 894.7 20.2 30.2#

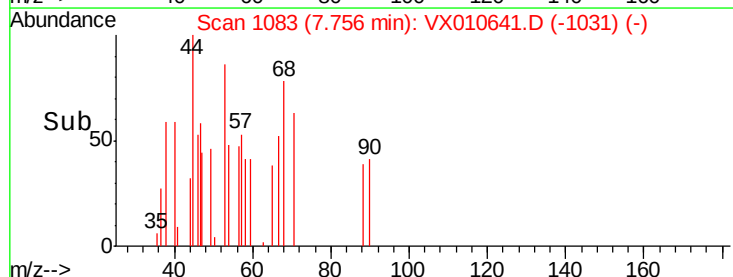
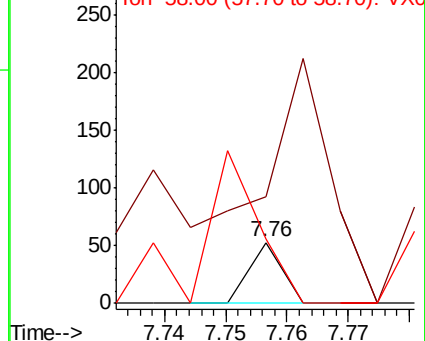
58 457.9 49.5 74.3#

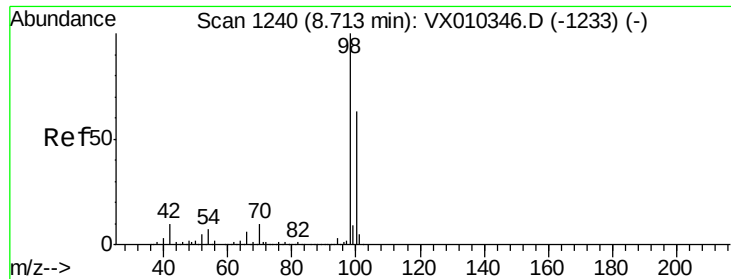


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

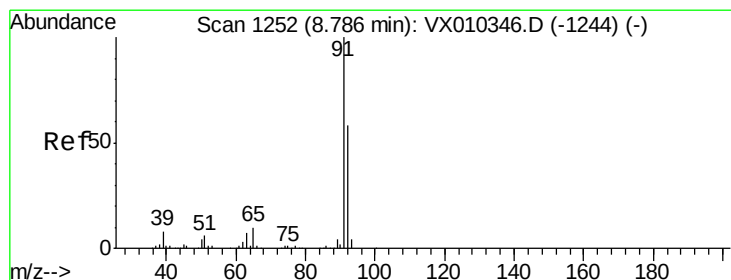
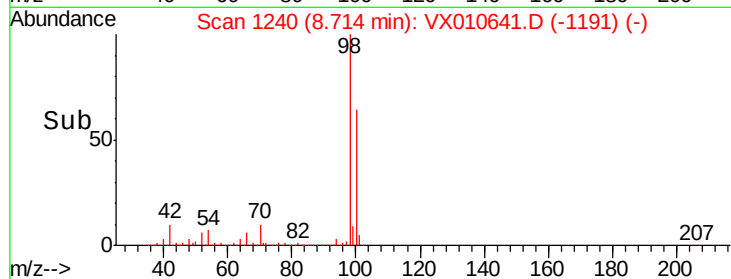
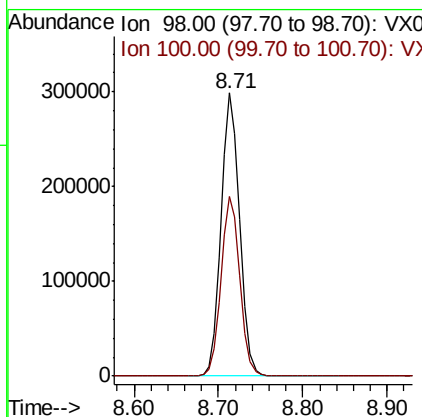
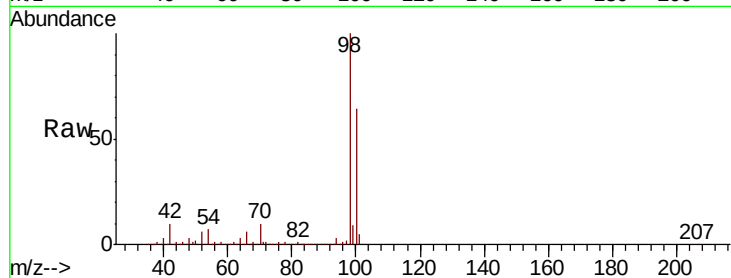




#50
Toluene-d8
Concen: 50.693 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010641.D
Acq: 03 Jul 2019 15:38

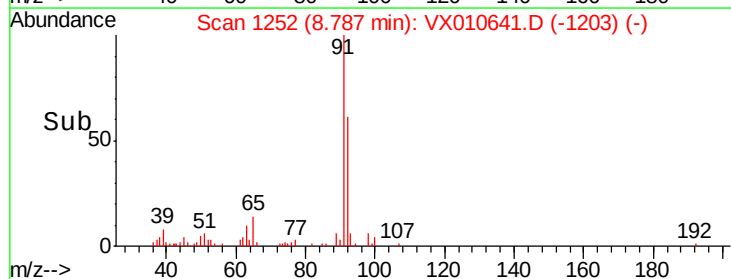
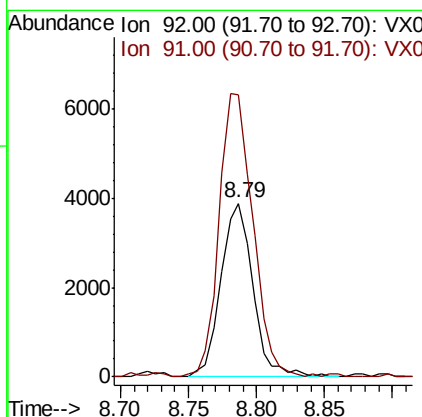
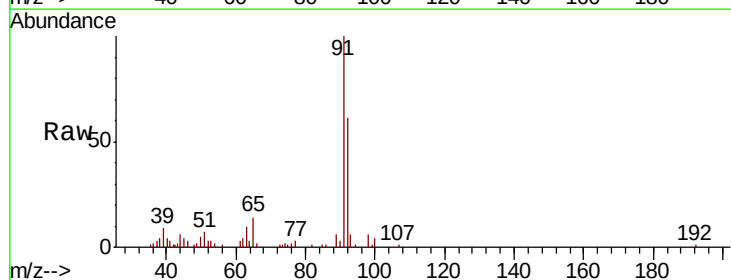
Instrument :
MSVOA_X
ClientSampled :
WP-23

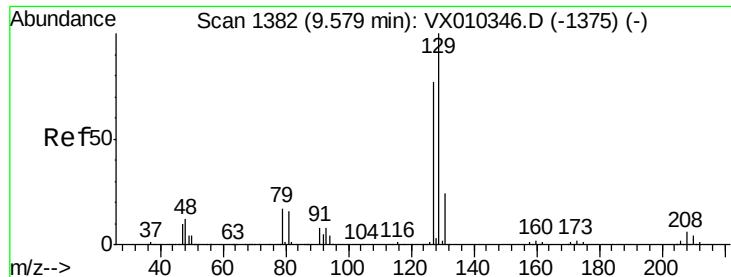
Tot Ion: 98 Resp: 457007
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



#52
Toluene
Concen: 1.012 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VX010641.D
Acq: 03 Jul 2019 15:38

Tgt Ion: 92 Resp: 6354
Ion Ratio Lower Upper
92 100
91 171.4 139.8 209.6





#60

Dibromochloromethane

Concen: 10.003 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

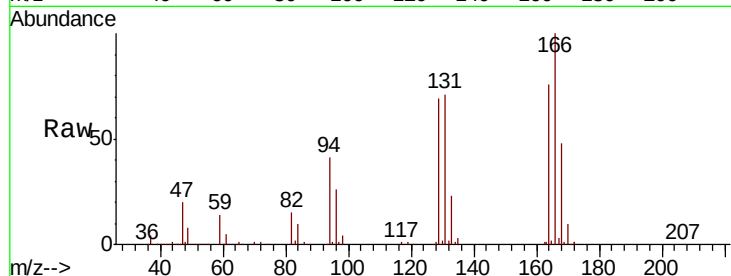
WP-23

Tot Ion:129 Resp: 29004

Ion Ratio Lower Upper

129 100

127 0.4 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

20000

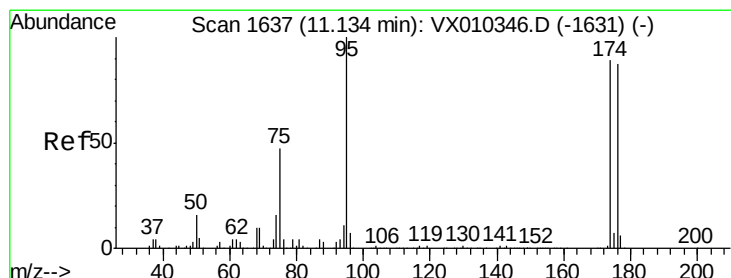
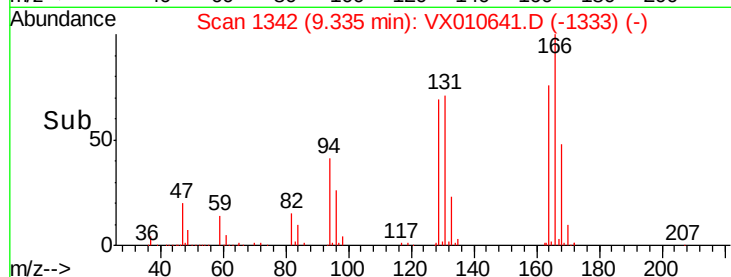
15000

10000

5000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 46.591 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

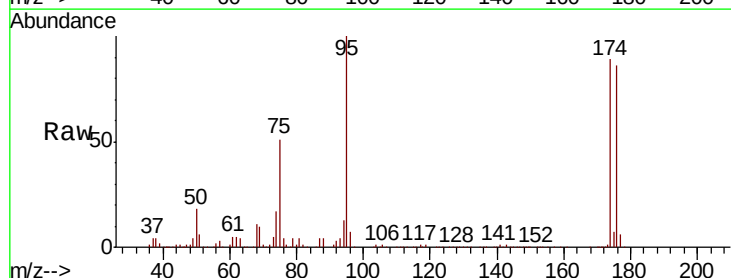
Tgt Ion: 95 Resp: 151643

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.6

176 90.7 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

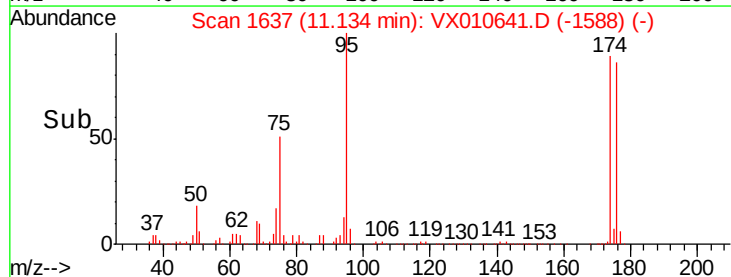
150000

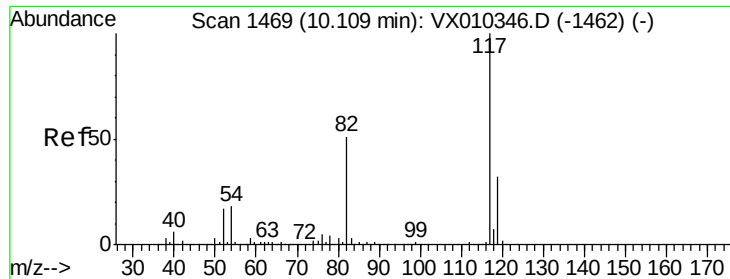
100000

50000

0

Time--> 11.05 11.10 11.15 11.20

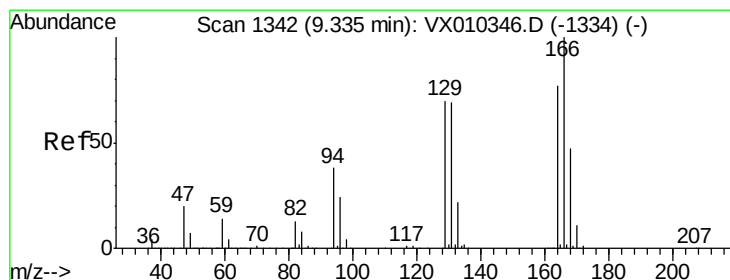
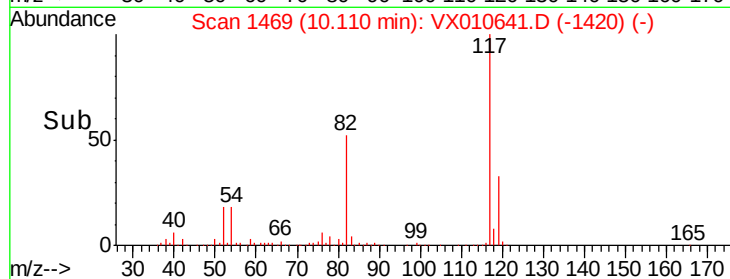
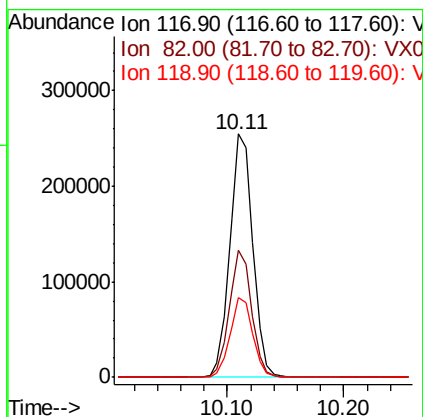
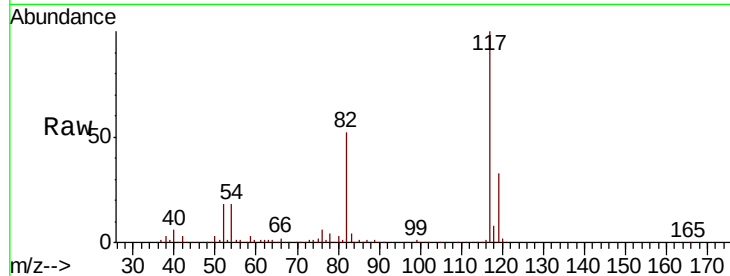




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010641.D
Acq: 03 Jul 2019 15:38

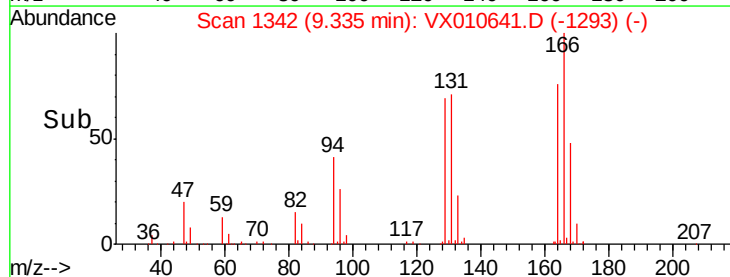
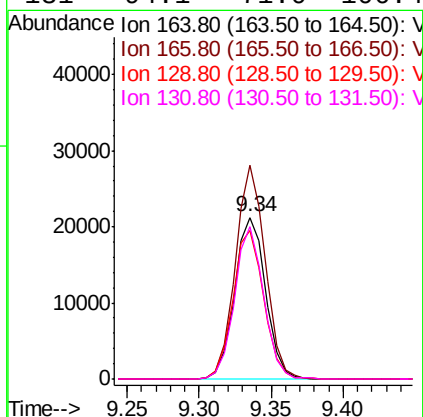
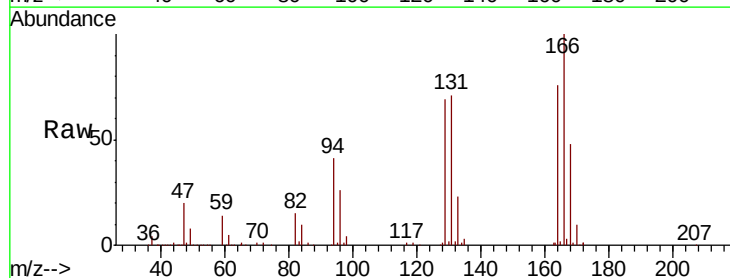
Instrument :
MSVOA_X
ClientSampleId :
WP-23

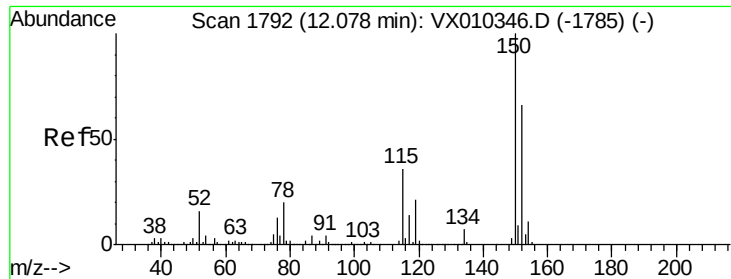
Tot Ion:117 Resp: 349653
Ion Ratio Lower Upper
117 100
82 52.3 41.2 61.8
119 32.7 25.5 38.3



#64
Tetrachloroethene
Concen: 11.163 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX010641.D
Acq: 03 Jul 2019 15:38

Tgt Ion:164 Resp: 31570
Ion Ratio Lower Upper
164 100
166 132.3 103.6 155.4
129 91.7 73.0 109.4
131 94.1 71.0 106.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

WP-23

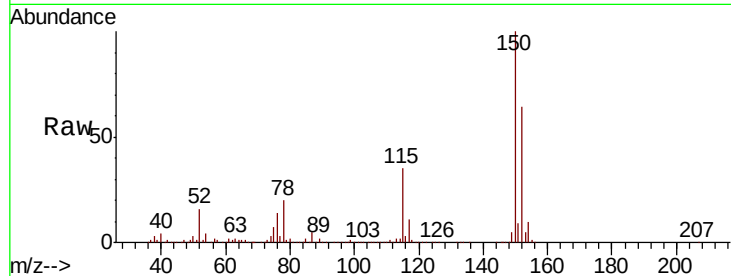
Tot Ion:152 Resp: 161376

Ion Ratio Lower Upper

152 100

115 54.9 38.6 115.7

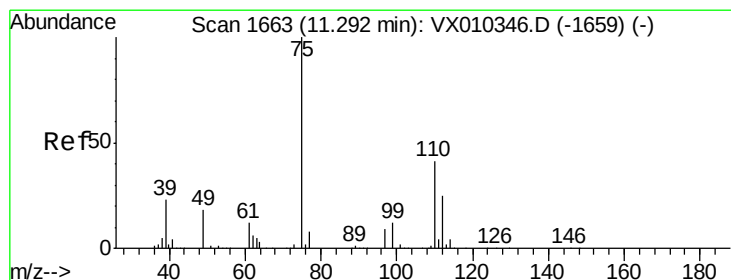
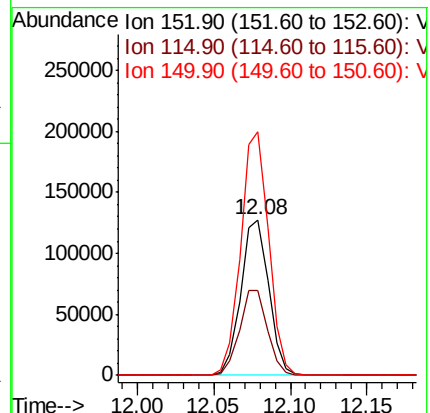
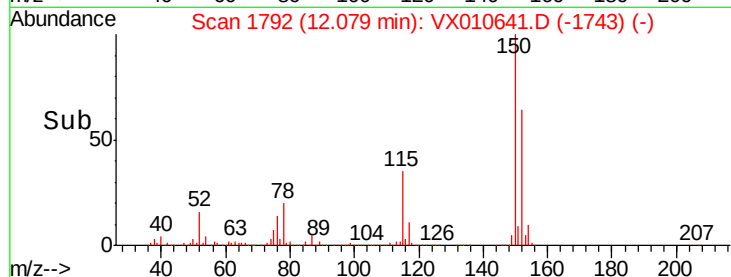
150 156.3 0.0 347.4



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: 25.390 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010641.D

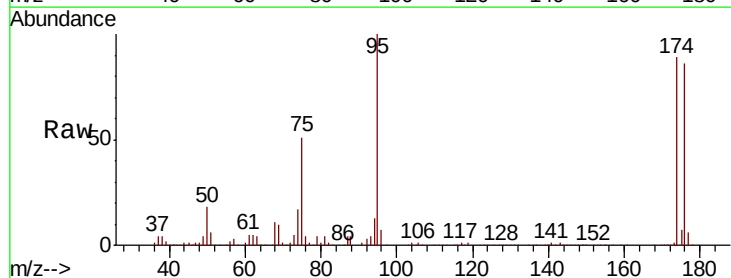
Acq: 03 Jul 2019 15:38

Tgt Ion: 75 Resp: 74663

Ion Ratio Lower Upper

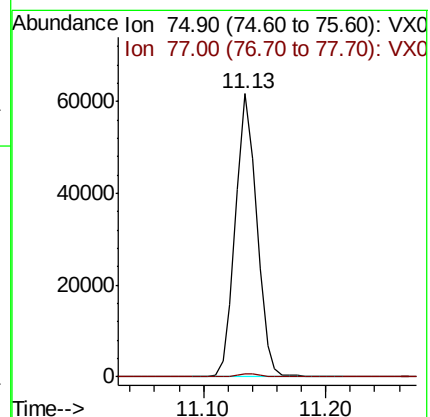
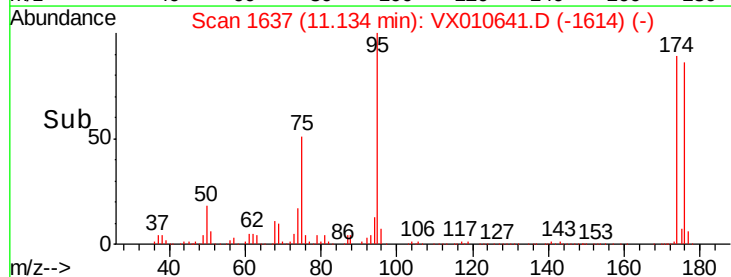
75 100

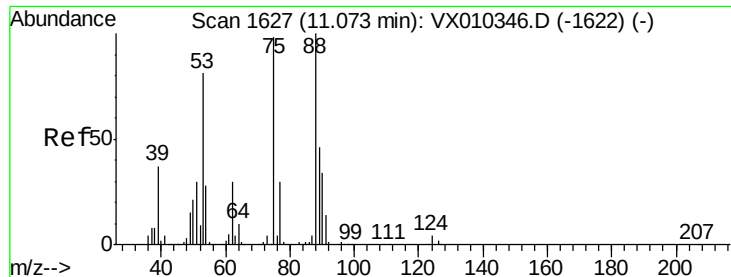
77 1.4 22.6 67.8#



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: 59.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

WP-23

Tot Ion: 75 Resp: 74663

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.0 37.8 56.6#

