

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043019\
 Data File : VX009243.D
 Acq On : 30 Apr 2019 14:07
 Operator : JC/SP
 Sample : K2594-12DL 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW246-190423DL

Quant Time: May 01 01:22:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	338098	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	293021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	124628	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	137353	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	5.50	113	100261	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	8.71	98	421274	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	11.13	95	138403	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	

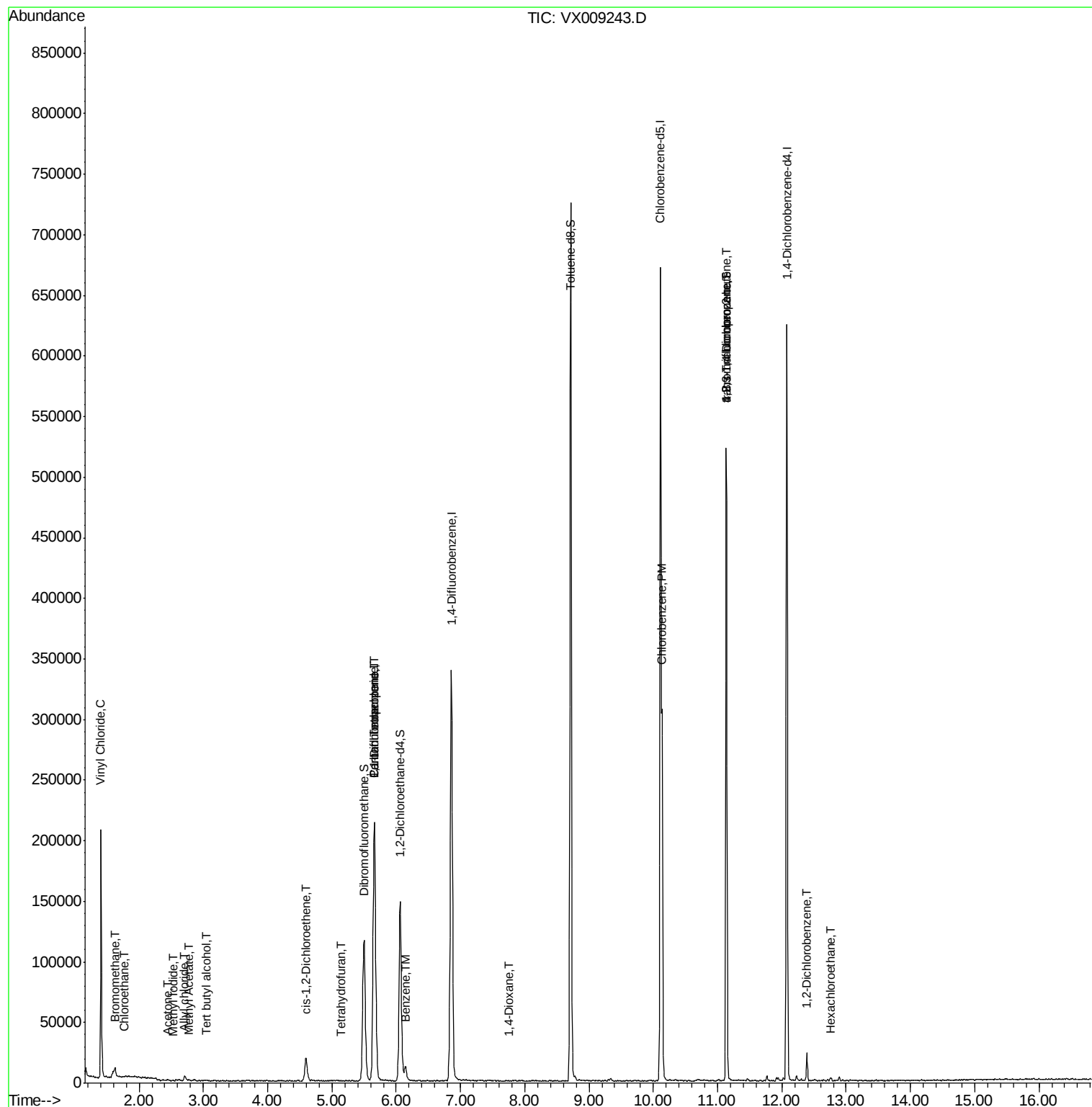
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	141648	54.943	ug/l	99
5) Bromomethane	1.64	94	517	0.334	ug/l	81
6) Chloroethane	1.76	64	2749	1.661	ug/l #	63
10) Methyl Iodide	2.52	142	141	4.650	ug/l #	42
11) Tert butyl alcohol	3.04	59	649	0.977	ug/l #	82
14) Allyl chloride	2.71	41	4286	0.892	ug/l #	55
16) Acetone	2.44	43	734	0.477	ug/l #	88
18) Methyl Acetate	2.78	43	1031	0.281	ug/l	94
27) cis-1,2-Dichloroethene	4.59	96	11546	4.524	ug/l	89
28) Bromochloromethane	5.01	49	82	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	668	0.434	ug/l #	50
36) 1,1-Dichloropropene	5.66	75	16153	5.141	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19602	6.867	ug/l #	16
40) Benzene	6.15	78	12164	1.251	ug/l	96
49) 1,4-Dioxane	7.76	88	75	1.065	ug/l #	1
65) Chlorobenzene	10.14	112	120730	20.596	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	71353	24.682	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	71353	63.152	ug/l #	10
90) Hexachloroethane	12.75	117	732	0.543	ug/l #	7
91) 1,2-Dichlorobenzene	12.39	146	6506	1.593	ug/l	99

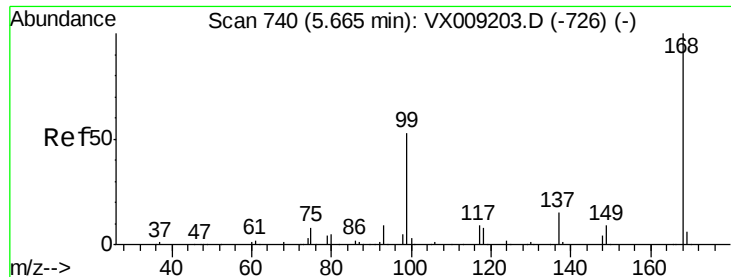
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:03:50 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: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

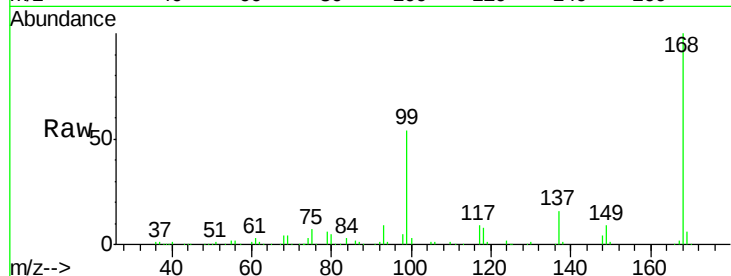
WP021RW246-190423DL

Tot Ion:168 Resp: 210145

Ion Ratio Lower Upper

168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

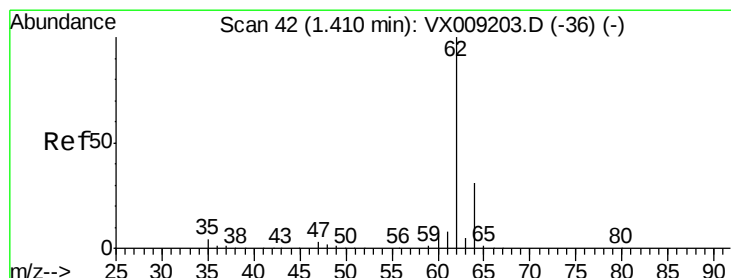
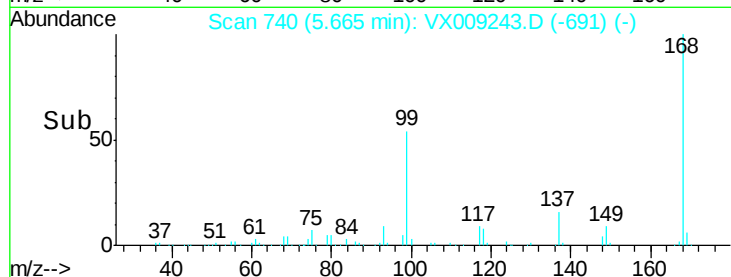
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 54.943 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009243.D

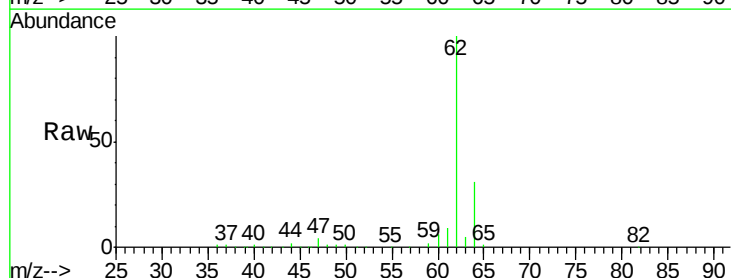
Acq: 30 Apr 2019 14:07

Tgt Ion: 62 Resp: 141648

Ion Ratio Lower Upper

62 100

64 31.3 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

150000

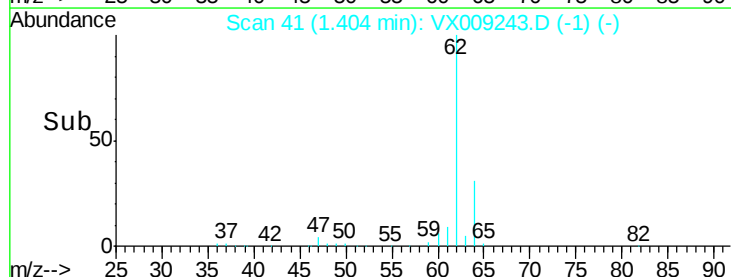
100000

50000

0

Time-->

1.30 1.40 1.50





#5

Bromomethane

Concen: 0.334 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

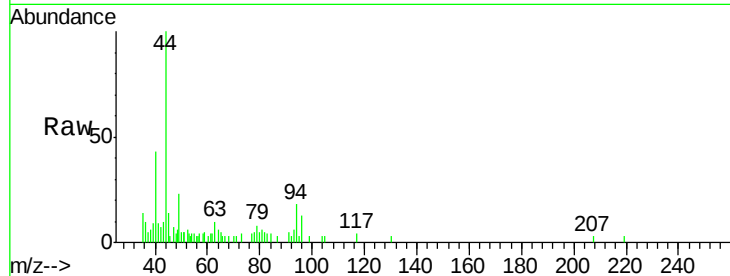
WP021RW246-190423DL

Tot Ion: 94 Resp: 517

Ion Ratio Lower Upper

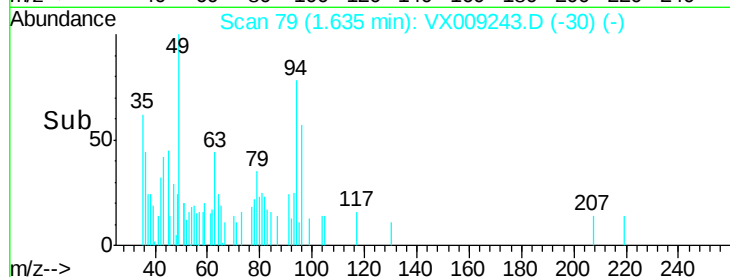
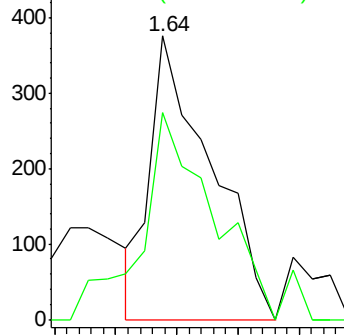
94 100

96 73.1 73.0 109.6

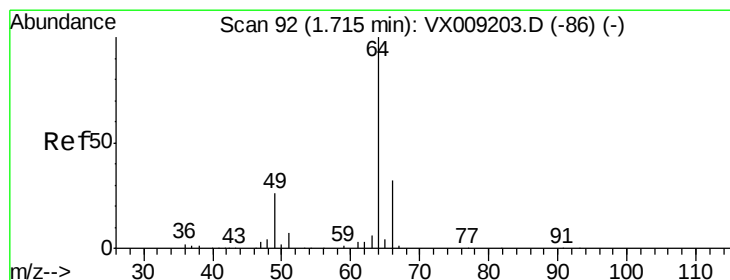


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.661 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX009243.D

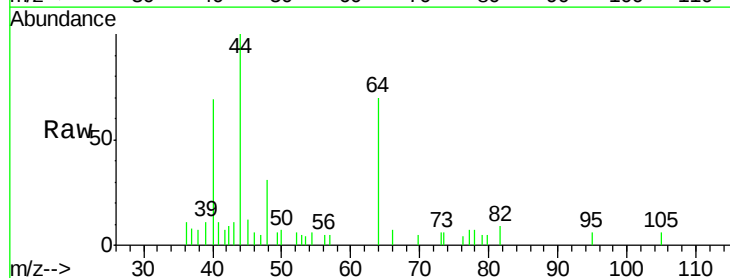
Acq: 30 Apr 2019 14:07

Tgt Ion: 64 Resp: 2749

Ion Ratio Lower Upper

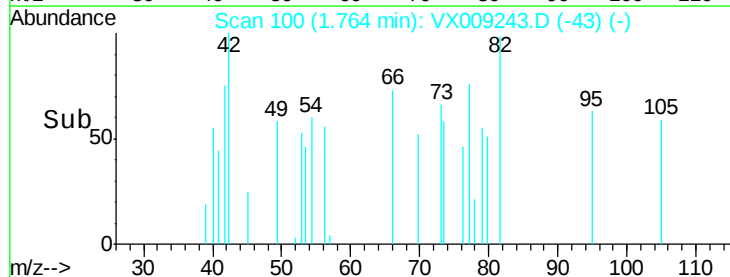
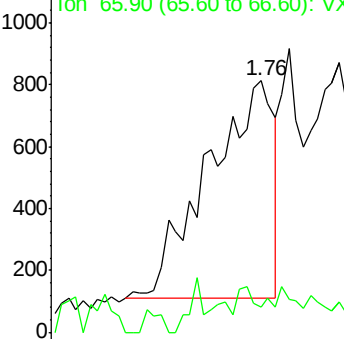
64 100

66 11.4 25.3 37.9#

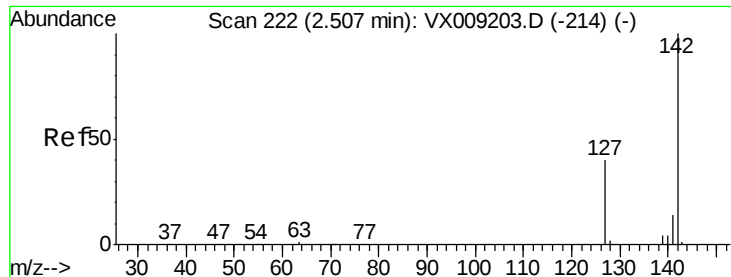


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



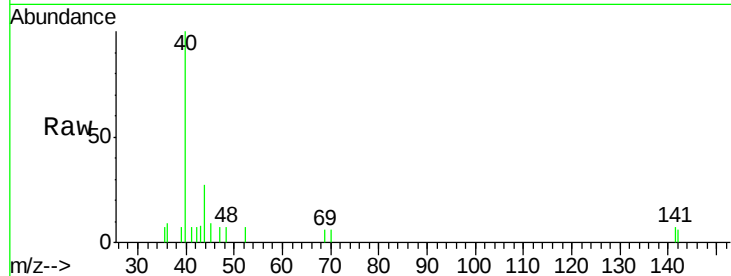
Time-->



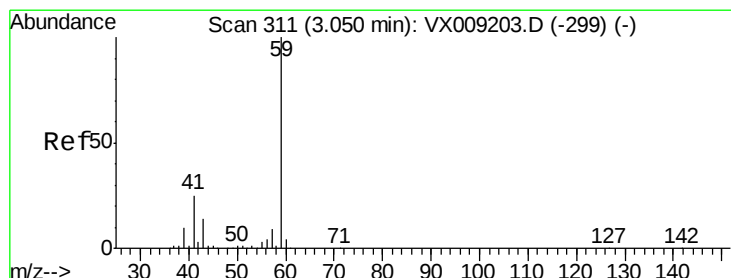
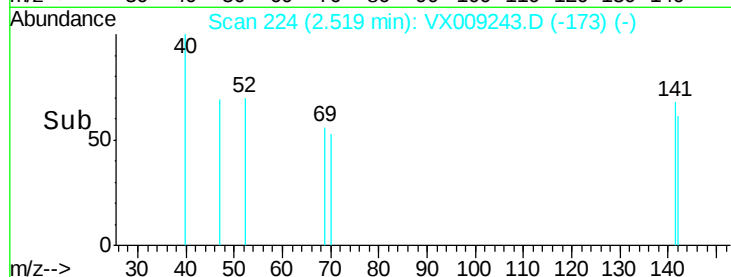
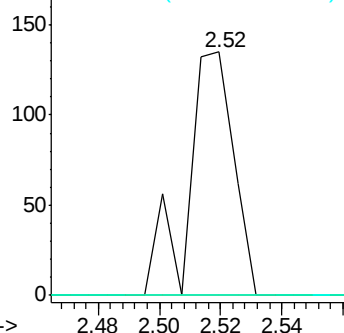
#10
Methvl Iodide
Concen: 4.650 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009243.D
Acq: 30 Apr 2019 14:07

Instrument :
MSVOA_X
ClientSampleId :
WP021RW246-190423DL

Tot Ion:142 Resp: 141
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

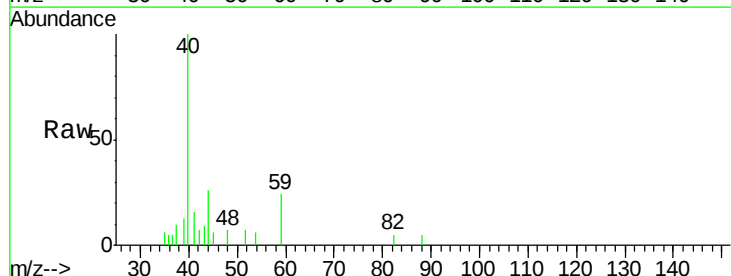


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

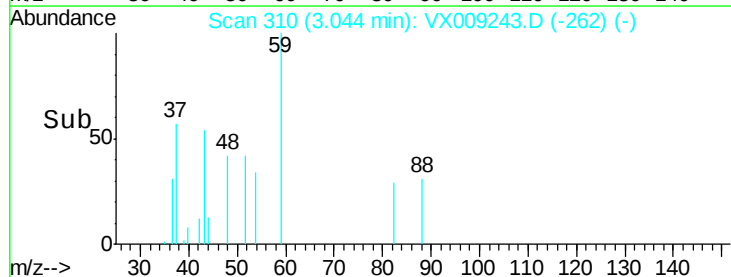
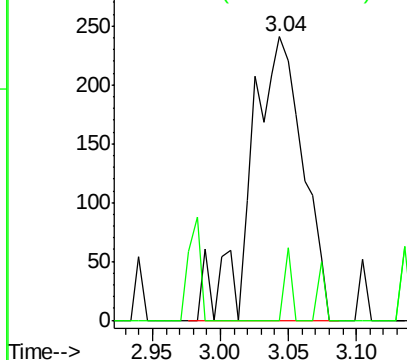


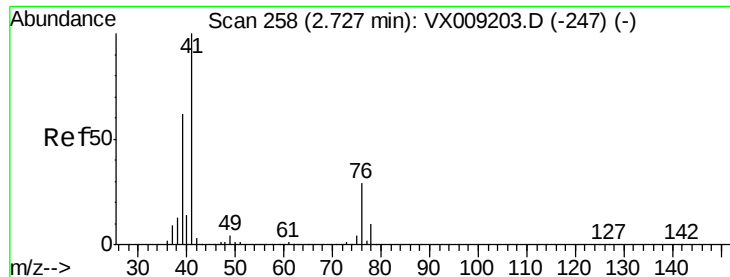
#11
Tert butyl alcohol
Concen: 0.977 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009243.D
Acq: 30 Apr 2019 14:07

Tgt Ion: 59 Resp: 649
Ion Ratio Lower Upper
59 100
57 3.5 8.2 12.2#



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





#14

Allvl chloride

Concen: 0.892 ug/l

RT: 2.71 min Scan# 255

Delta R.T. -0.02 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

WP021RW246-190423DL

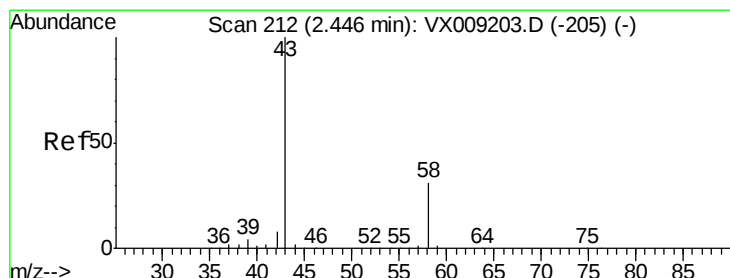
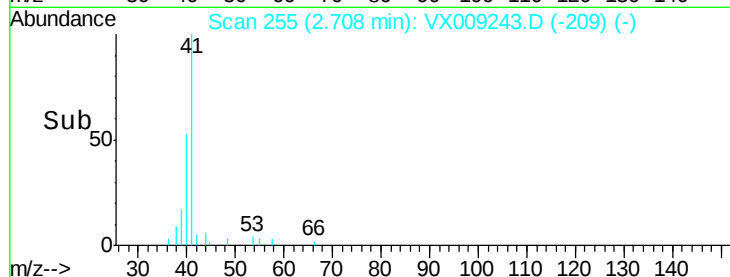
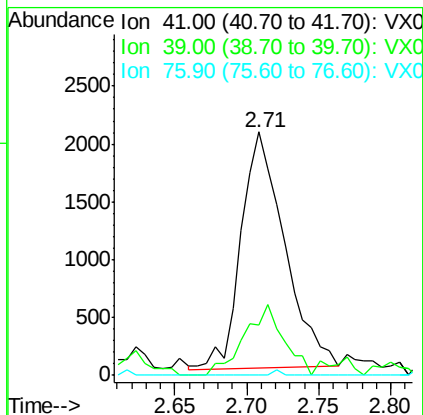
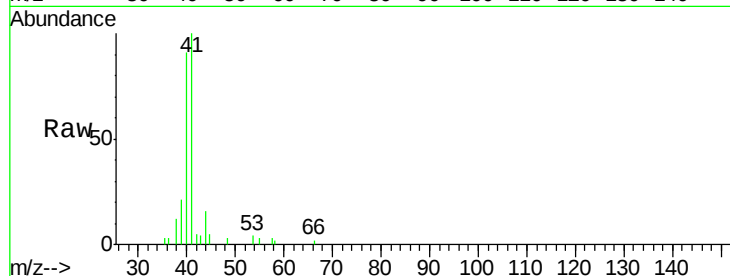
Tot Ion: 41 Resp: 4286

Ion Ratio Lower Upper

41 100

39 27.1 46.7 70.1#

76 0.4 21.8 32.8#



#16

Acetone

Concen: 0.477 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009243.D

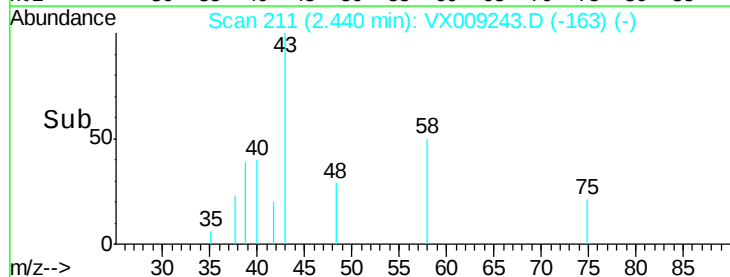
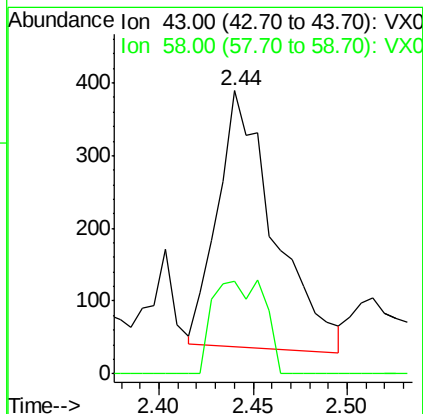
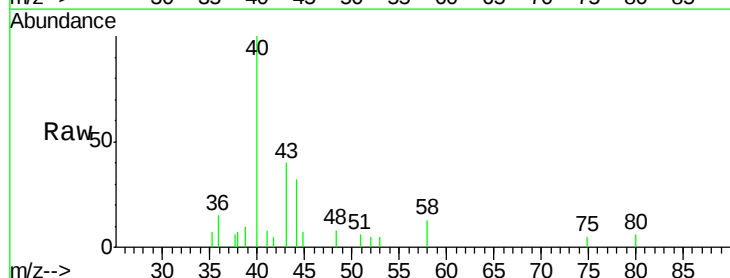
Acq: 30 Apr 2019 14:07

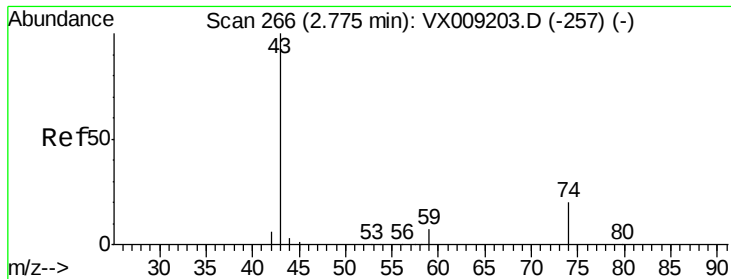
Tgt Ion: 43 Resp: 734

Ion Ratio Lower Upper

43 100

58 37.7 24.9 37.3#

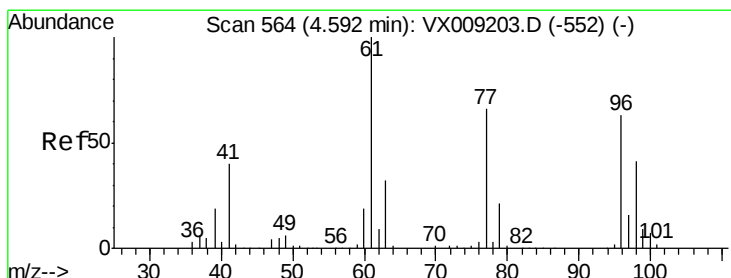
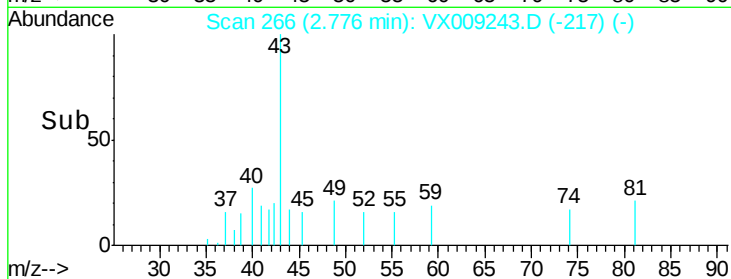
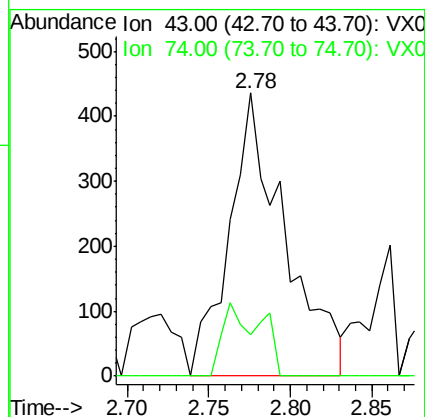
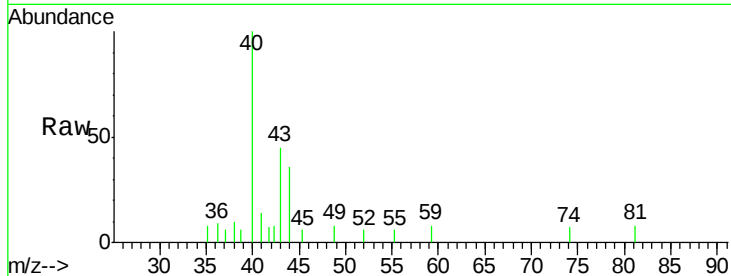




#18
Methvl Acetate
Concen: 0.281 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX009243.D
Acq: 30 Apr 2019 14:07

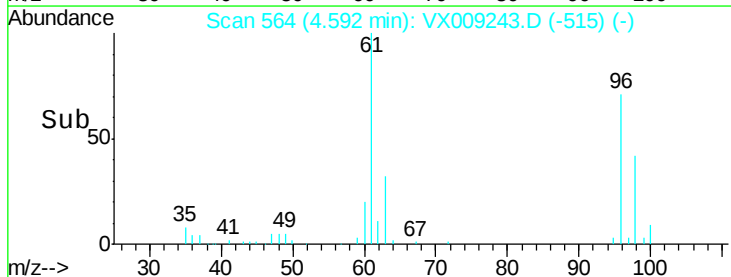
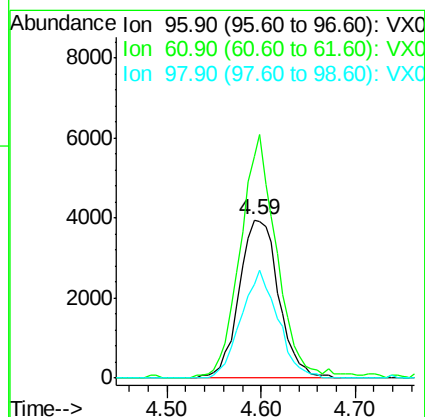
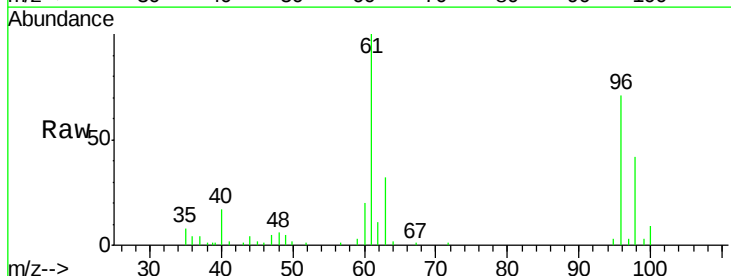
Instrument :
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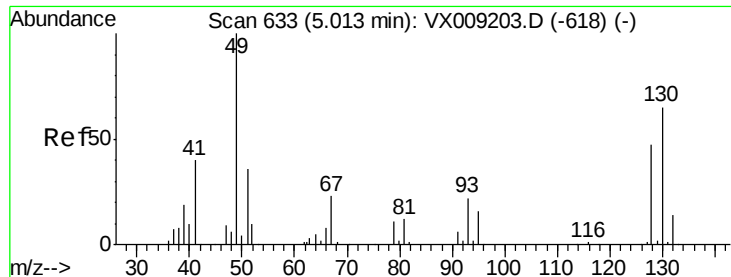
Tot Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
74 17.7 16.2 24.4



#27
cis-1,2-Dichloroethene
Concen: 4.524 ug/l
RT: 4.59 min Scan# 564
Delta R.T. 0.00 min
Lab File: VX009243.D
Acq: 30 Apr 2019 14:07

Tgt Ion: 96 Resp: 11546
Ion Ratio Lower Upper
96 100
61 142.4 0.0 324.0
98 63.4 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

WP021RW246-190423DL

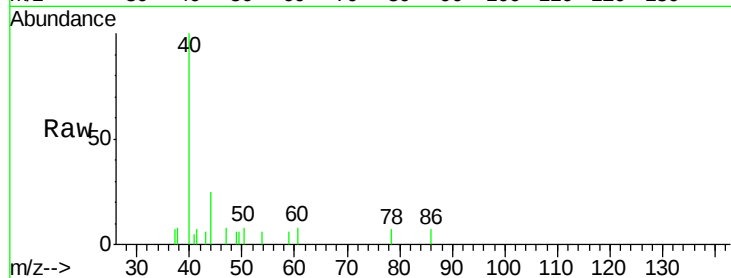
Tot Ion: 49 Resp: 82

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

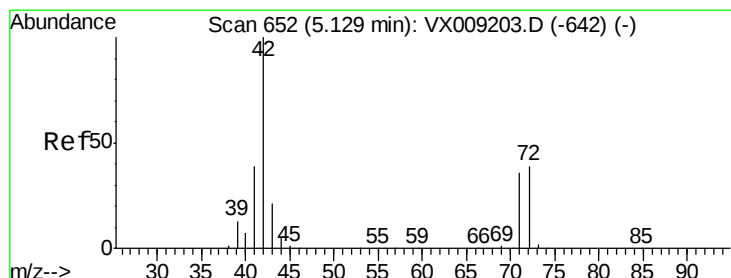
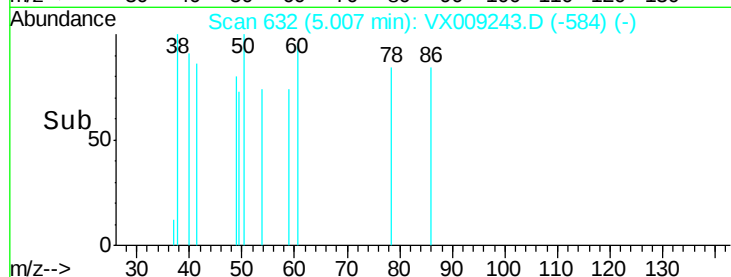
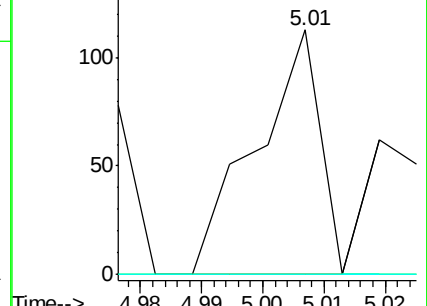
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): VX0

Ion 129.80 (129.50 to 130.50): VX0



#29

Tetrahydrofuran

Concen: 0.434 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

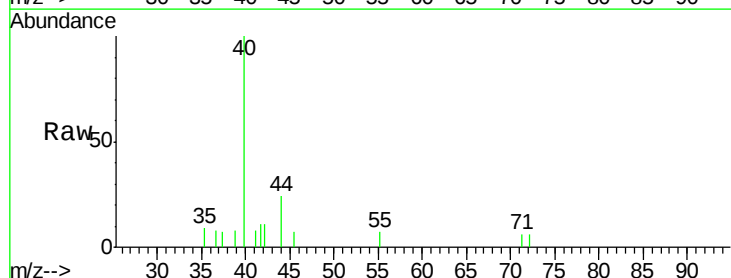
Tgt Ion: 42 Resp: 668

Ion Ratio Lower Upper

42 100

72 2.8 30.4 45.6#

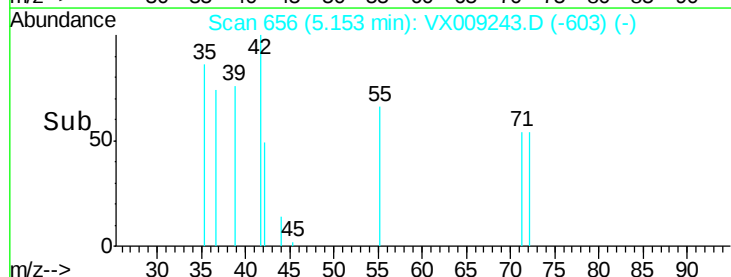
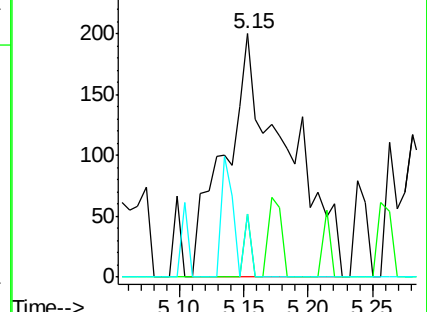
71 12.0 28.6 43.0#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

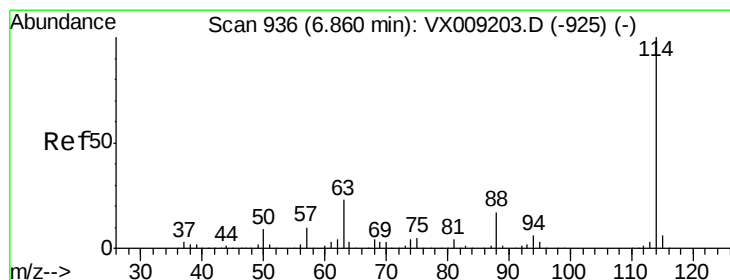
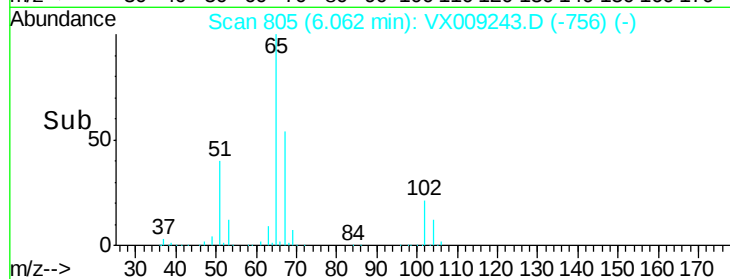
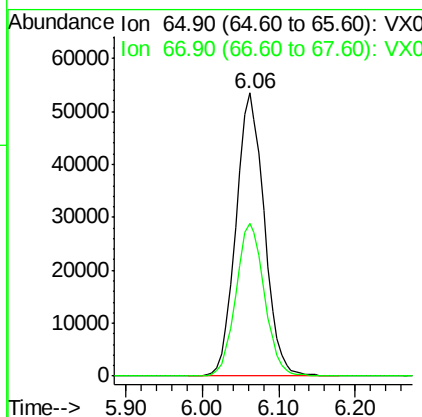
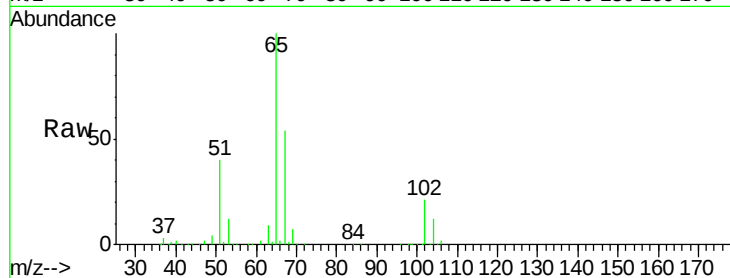




#33
 1,2-Dichloroethane-d4
 Concen: 47.879 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009243.D
 Acq: 30 Apr 2019 14:07

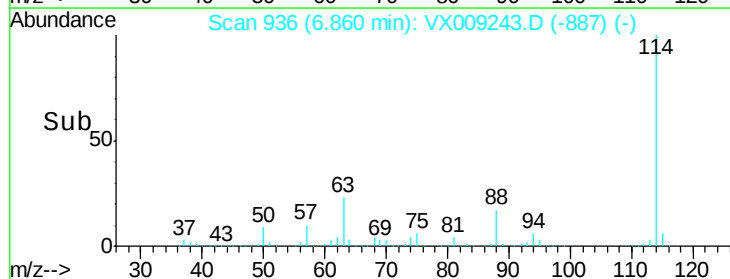
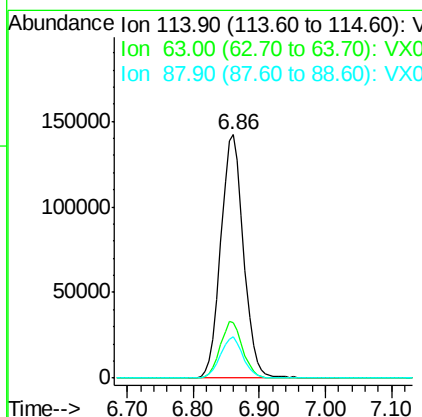
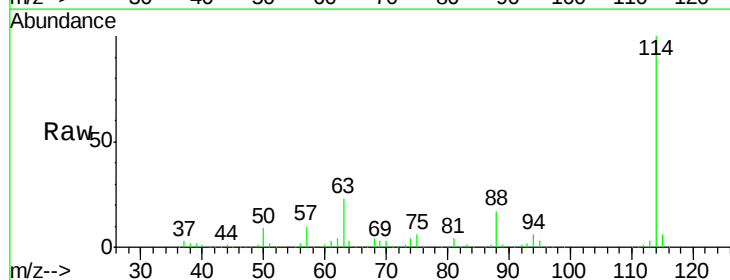
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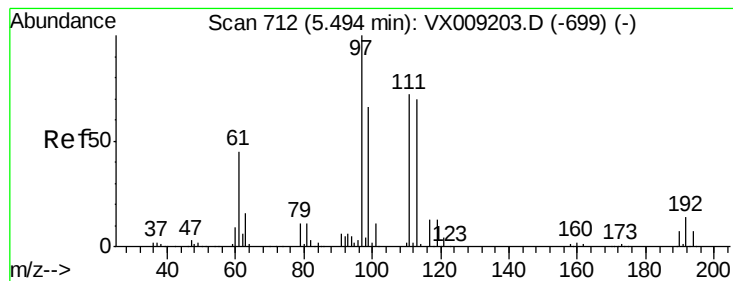
Tot Ion: 65 Resp: 137353
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009243.D
 Acq: 30 Apr 2019 14:07

Tgt Ion: 114 Resp: 338098
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.6
 88 17.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.172 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

WP021RW246-190423DL

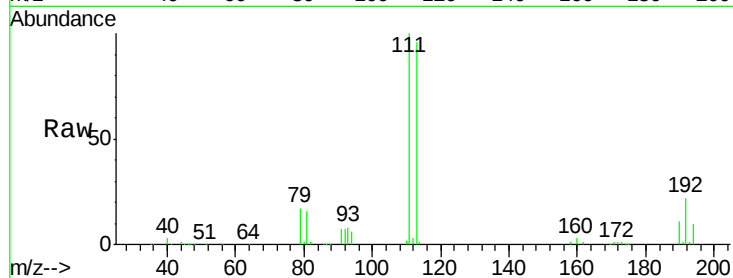
Tot Ion:113 Resp: 100261

Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

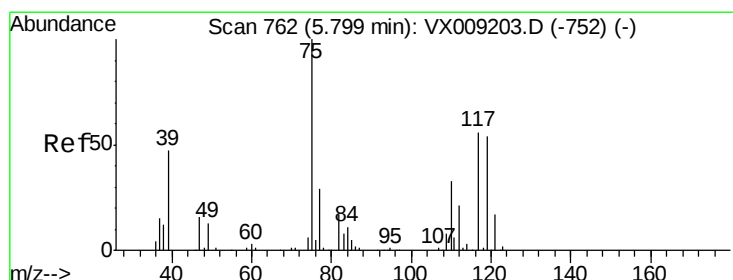
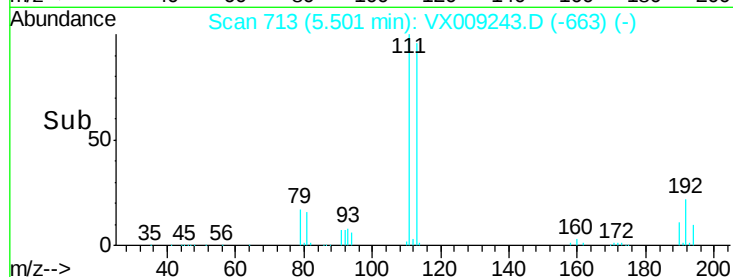
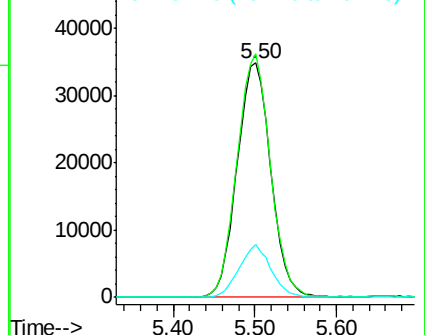
192 21.3 17.0 25.6



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: 5.141 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

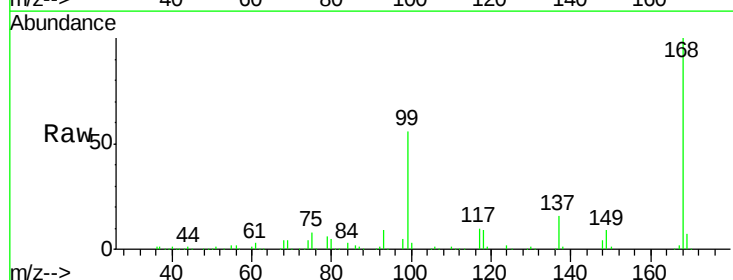
Tgt Ion: 75 Resp: 16153

Ion Ratio Lower Upper

75 100

110 8.8 16.9 50.6#

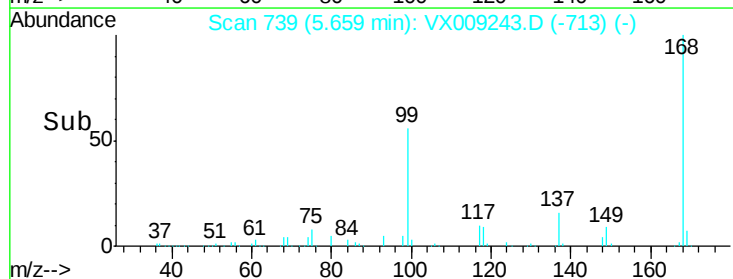
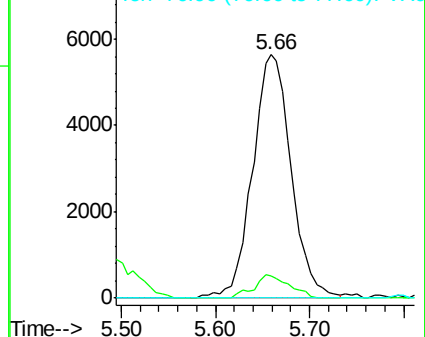
77 0.0 24.8 37.2#

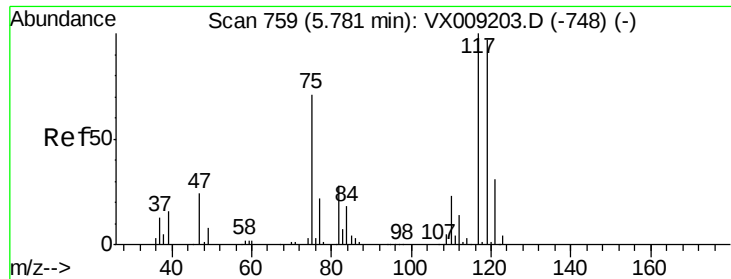


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.867 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

WP021RW246-190423DL

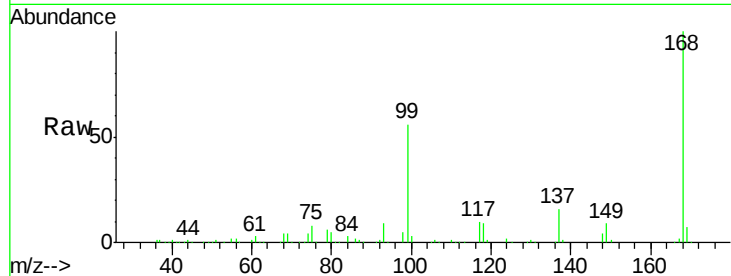
Tot Ion:117 Resp: 19602

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

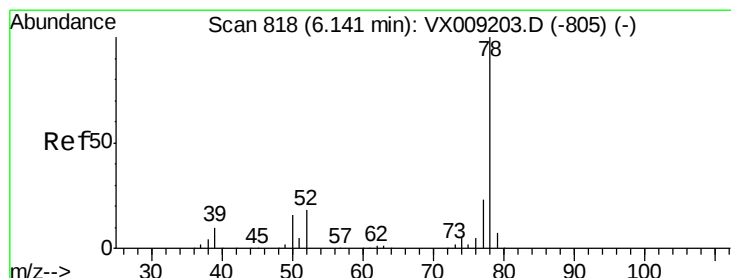
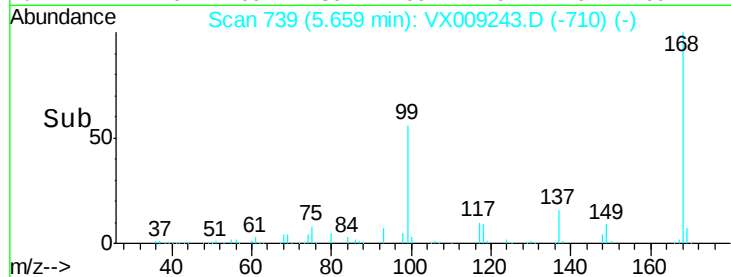
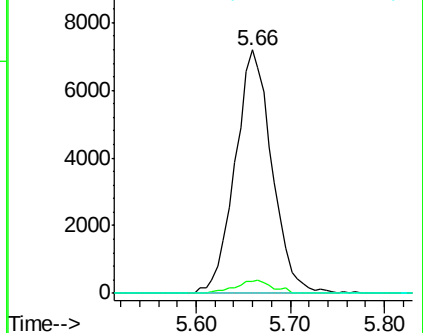
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 1.251 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX009243.D

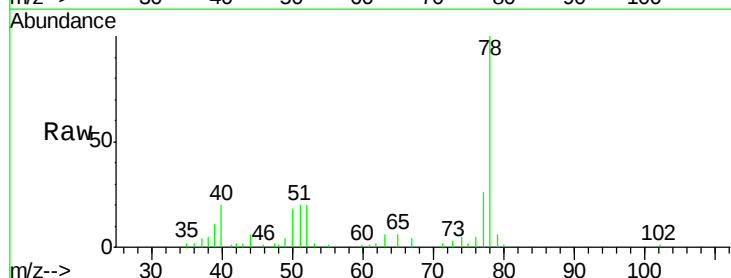
Acq: 30 Apr 2019 14:07

Tgt Ion: 78 Resp: 12164

Ion Ratio Lower Upper

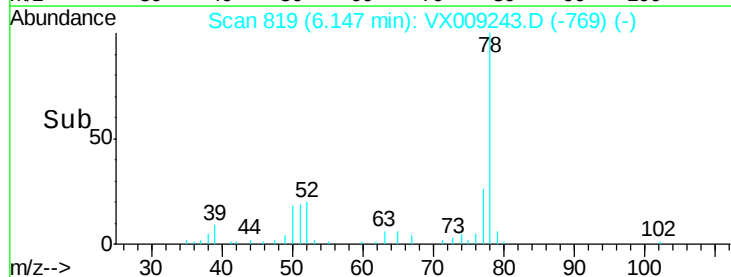
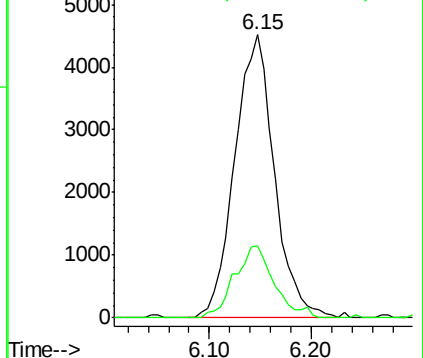
78 100

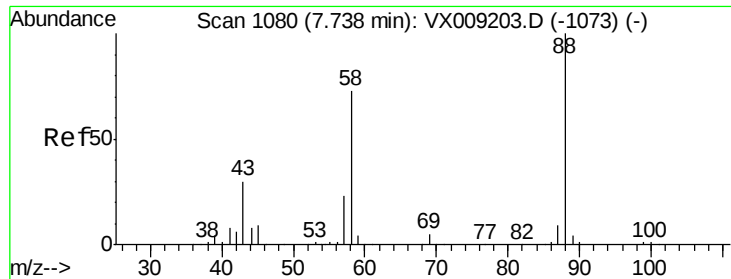
77 25.5 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

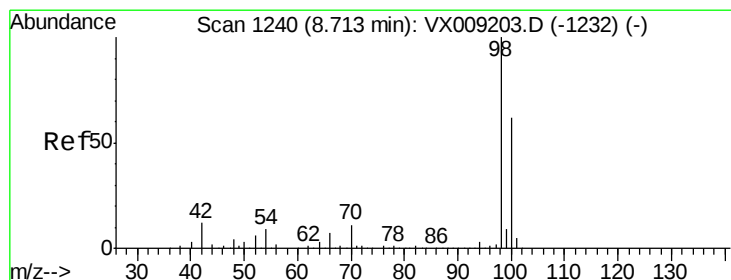
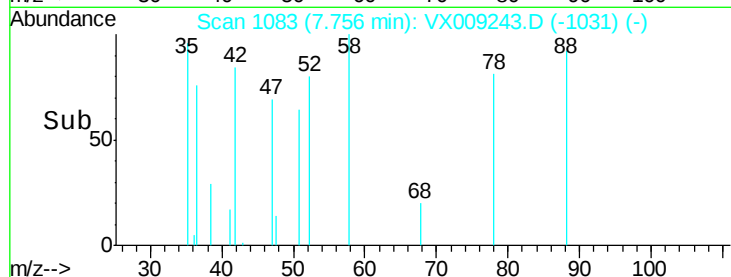
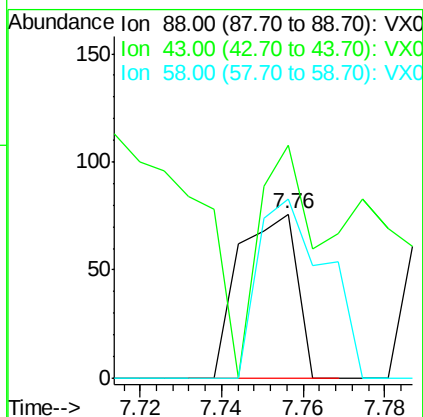
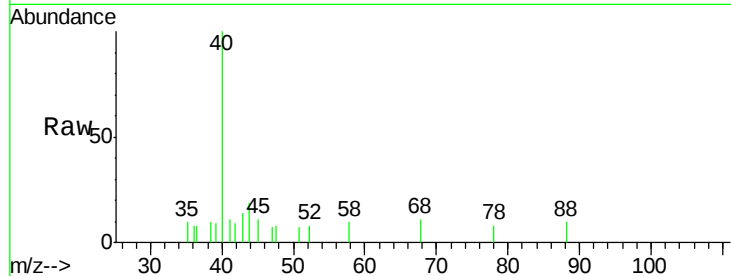




#49
1,4-Dioxane
Concen: 1.065 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX009243.D
Acq: 30 Apr 2019 14:07

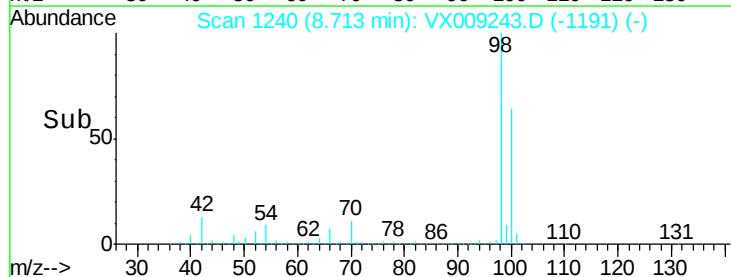
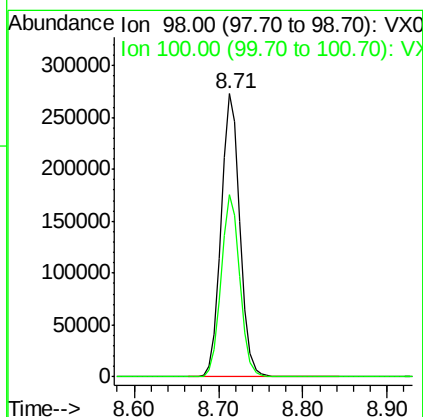
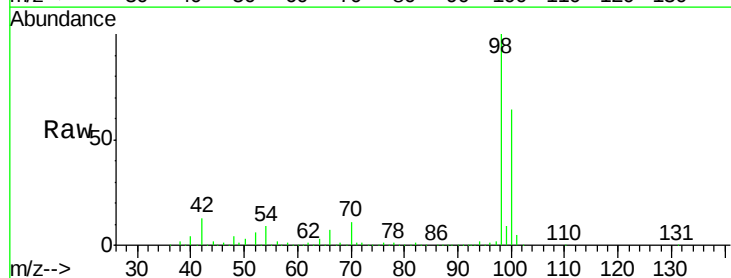
Instrument :
MSVOA_X
ClientSampleId :
WP021RW246-190423DL

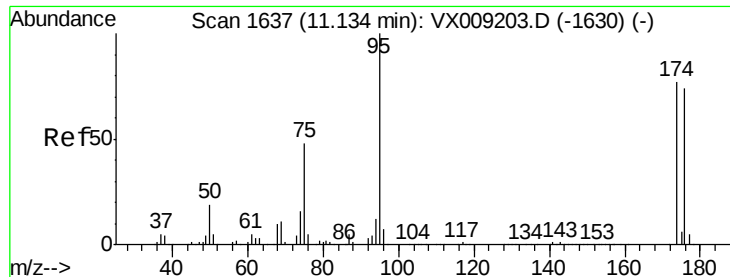
Tot Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 158.7 28.6 42.8#
58 128.0 61.7 92.5#



#50
Toluene-d8
Concen: 49.095 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009243.D
Acq: 30 Apr 2019 14:07

Tgt Ion: 98 Resp: 421274
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8





#62

4-Bromofluorobenzene

Concen: 44.389 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

WP021RW246-190423DL

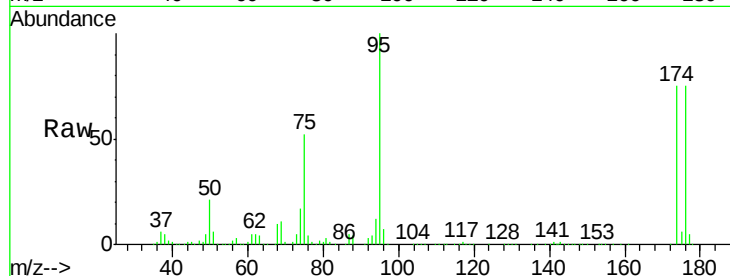
Tot Ion: 95 Resp: 138403

Ion Ratio Lower Upper

95 100

174 80.7 0.0 161.6

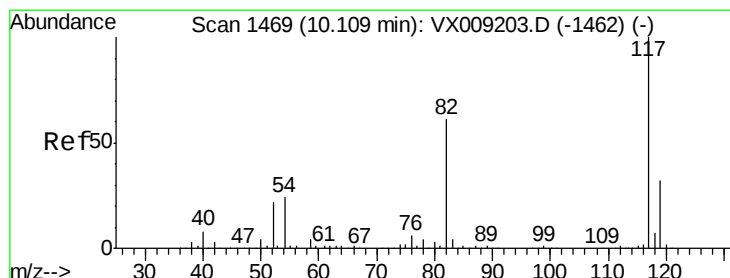
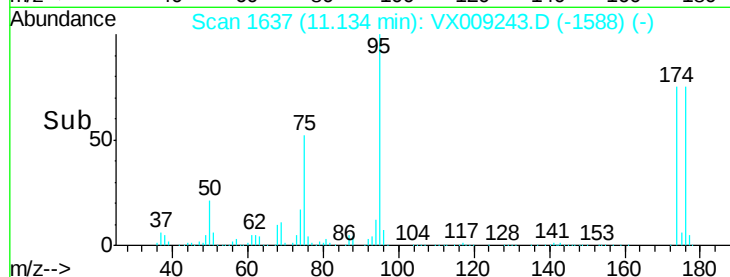
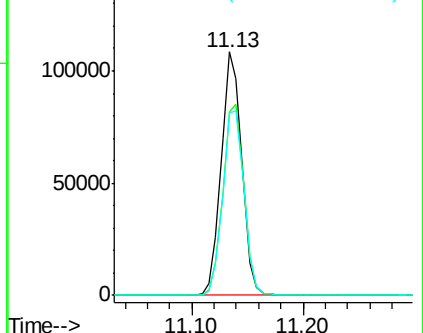
176 79.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009243.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009243.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009243.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

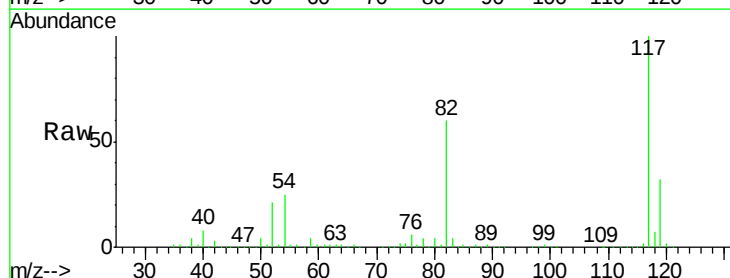
Tgt Ion: 117 Resp: 293021

Ion Ratio Lower Upper

117 100

82 60.2 48.8 73.2

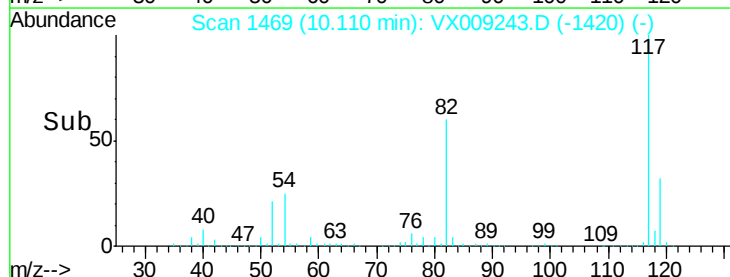
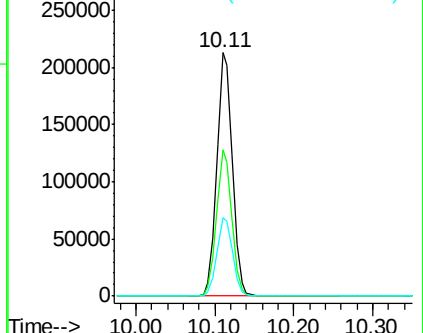
119 32.2 25.8 38.6

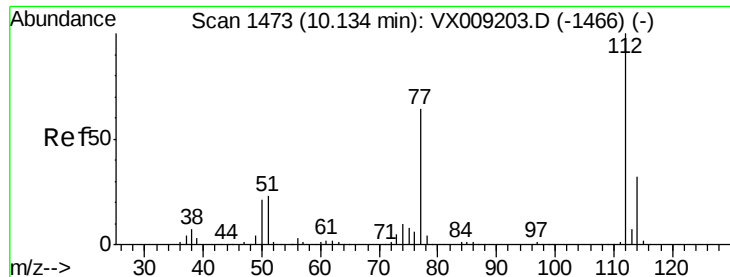


Abundance Ion 116.90 (116.60 to 117.60): VX009243.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009243.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009243.D (-1420) (-)





#65

Chlorobenzene

Concen: 20.596 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

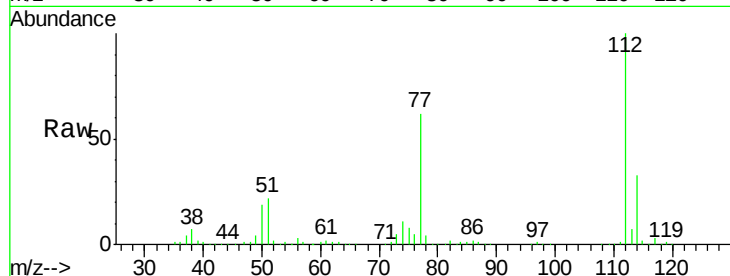
WP021RW246-190423DL

Tot Ion:112 Resp: 120730

Ion Ratio Lower Upper

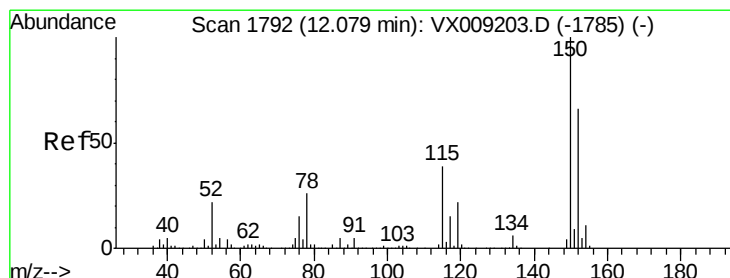
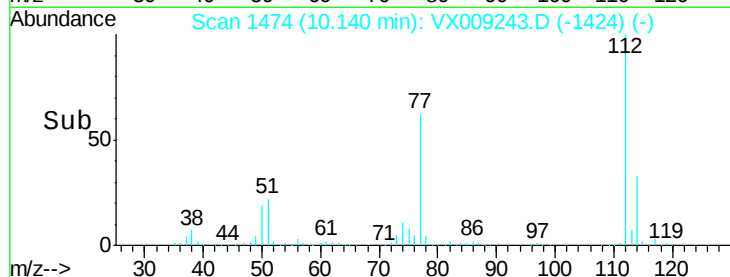
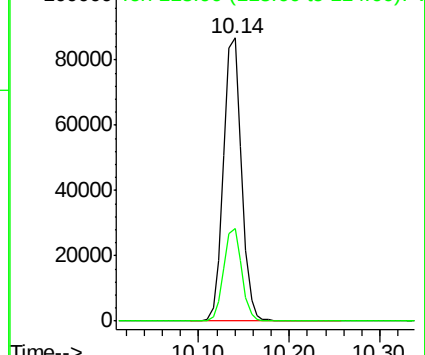
112 100

114 32.6 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

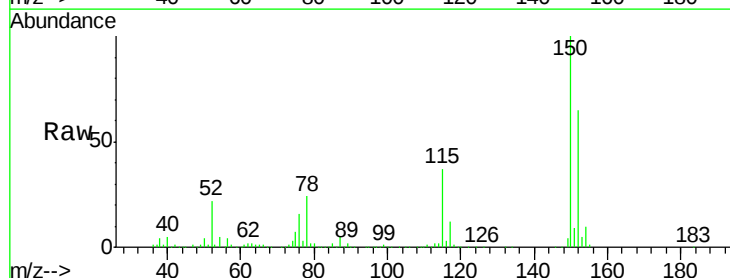
Tgt Ion:152 Resp: 124628

Ion Ratio Lower Upper

152 100

115 59.5 41.2 123.6

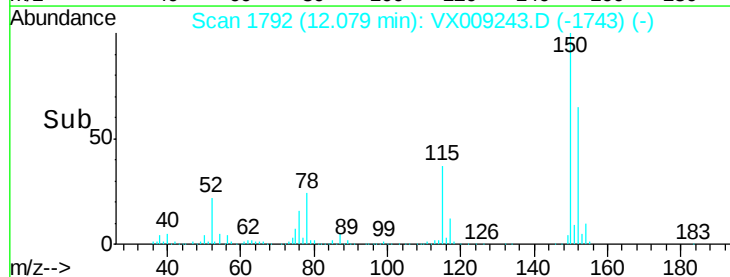
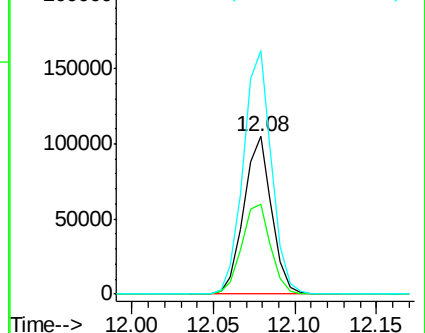
150 157.0 0.0 346.4

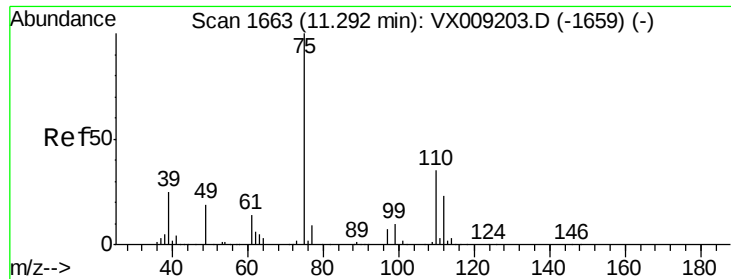


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.682 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

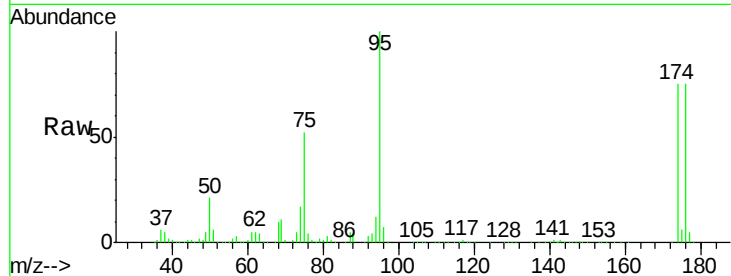
WP021RW246-190423DL

Tot Ion: 75 Resp: 71353

Ion Ratio Lower Upper

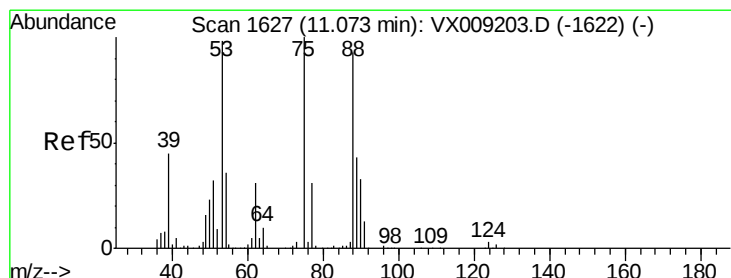
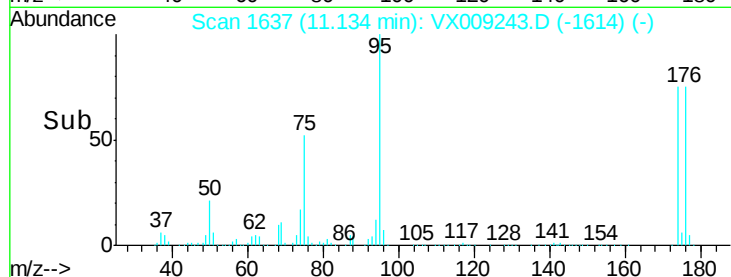
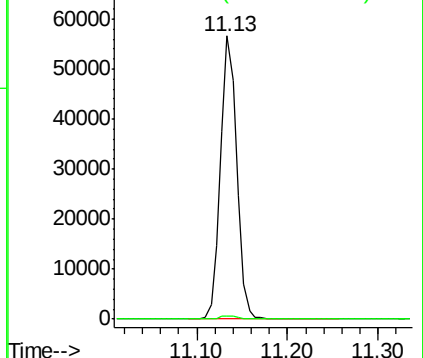
75 100

77 1.4 22.1 66.1#



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: 63.152 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

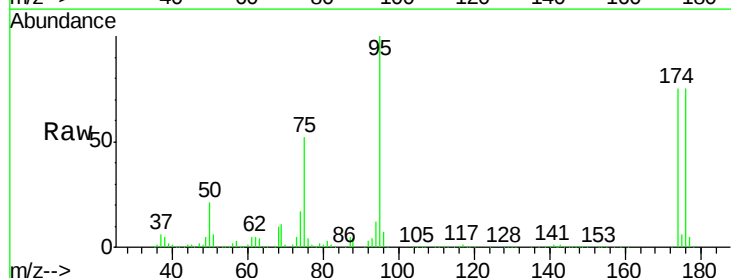
Tgt Ion: 75 Resp: 71353

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

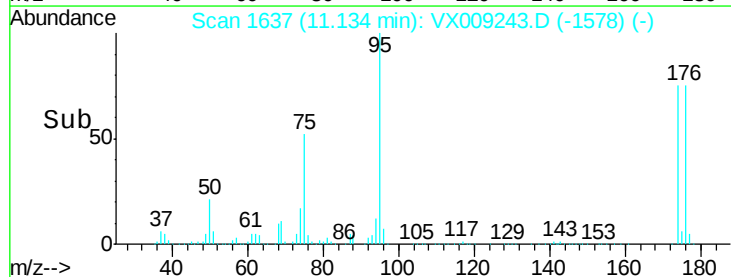
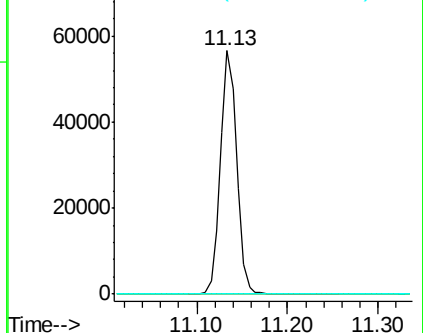
89 0.0 34.7 52.1#

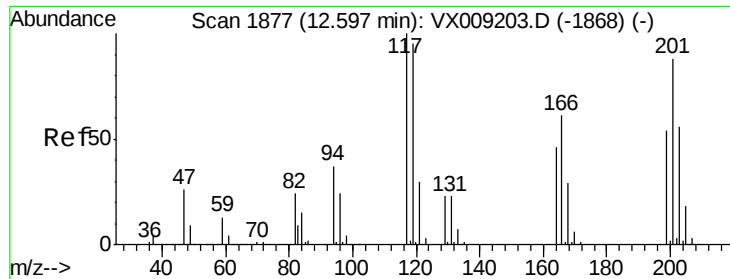


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 0.543 ug/l

RT: 12.75 min Scan# 1902

Delta R.T. 0.15 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

Instrument :

MSVOA_X

ClientSampleId :

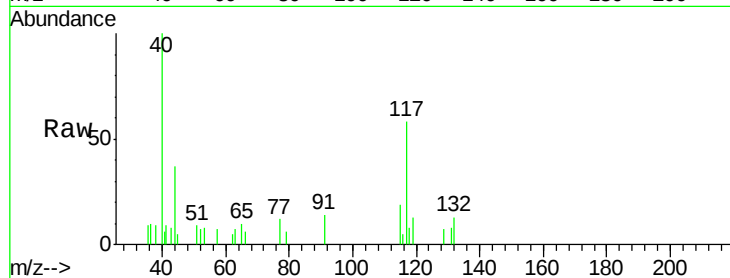
WP021RW246-190423DL

Tot Ion:117 Resp: 732

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.75

600

500

400

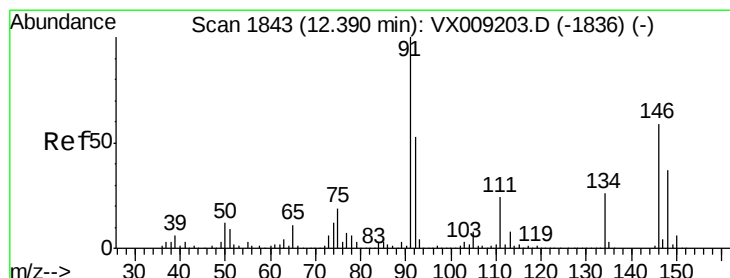
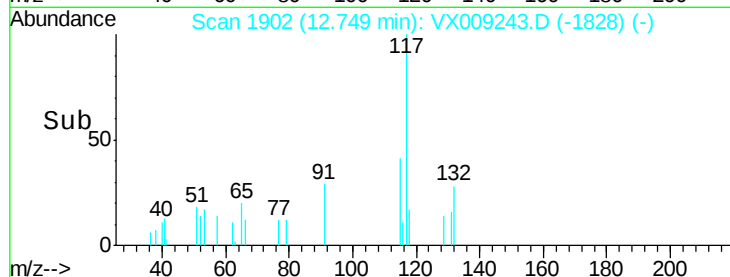
300

200

100

0

Time--> 12.70 12.75 12.80



#91

1,2-Dichlorobenzene

Concen: 1.593 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX009243.D

Acq: 30 Apr 2019 14:07

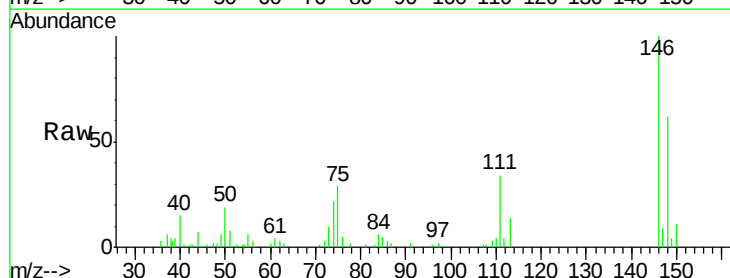
Tgt Ion:146 Resp: 6506

Ion Ratio Lower Upper

146 100

111 41.3 20.8 62.4

148 63.2 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

12.39

6000

4000

2000

0

Time--> 12.35 12.40

