

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043019\
 Data File : VX009245.D
 Acq On : 30 Apr 2019 14:54
 Operator : JC/SP
 Sample : K2594-17DL 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW346-190425DL

Quant Time: May 01 01:22:54 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

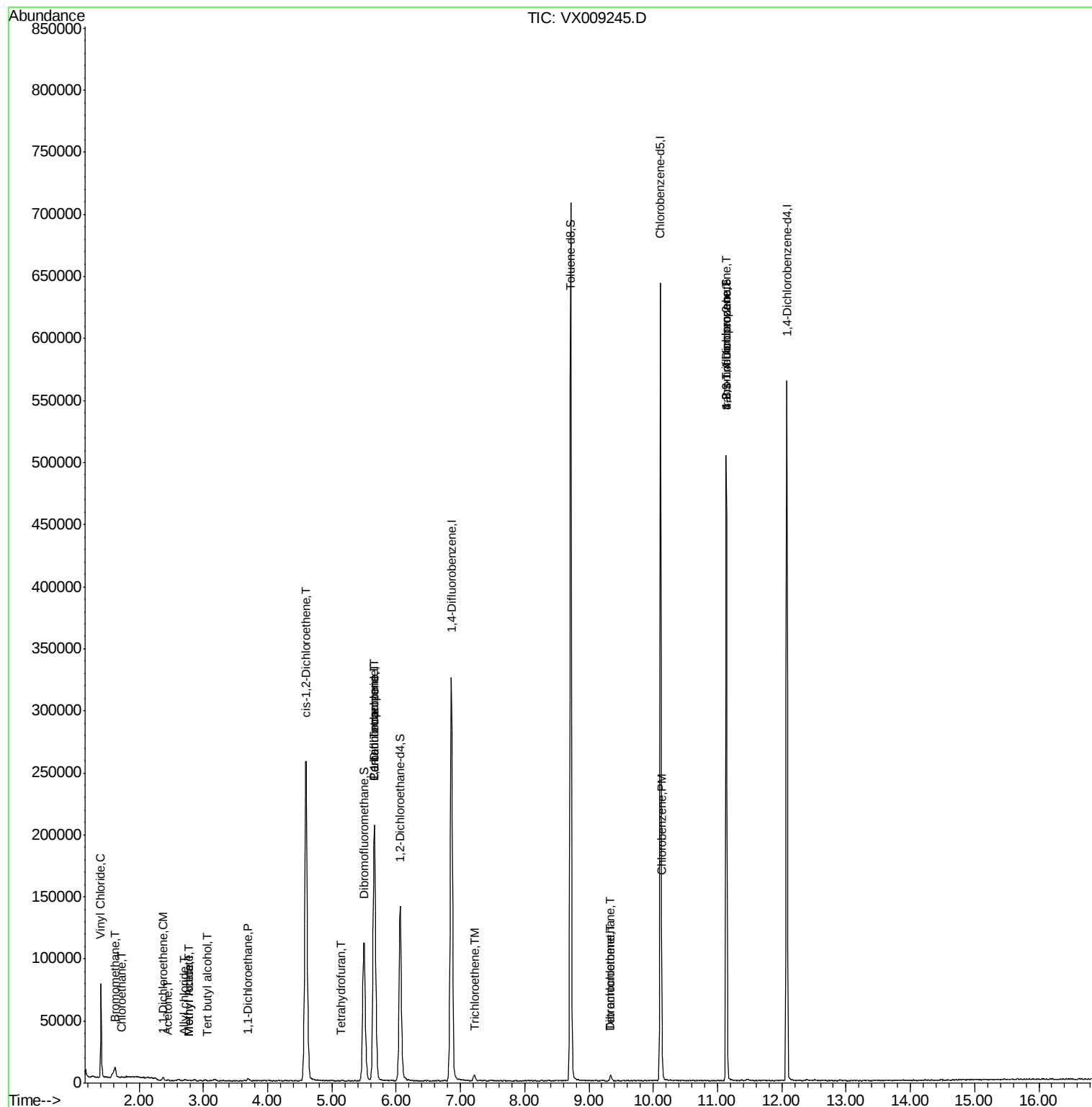
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	202017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	323103	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	280243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116800	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	132221	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
35) Dibromofluoromethane	5.50	113	96667	47.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.18%	
50) Toluene-d8	8.71	98	405981	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
62) 4-Bromofluorobenzene	11.13	95	132146	44.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.70%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	51112	20.623	ug/l	99
5) Bromomethane	1.64	94	504	0.339	ug/l	97
6) Chloroethane	1.72	64	365	0.229	ug/l #	43
10) Methyl Iodide	2.77	142	20	4.602	ug/l #	42
11) Tert butyl alcohol	3.06	59	185	0.290	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	671	0.354	ug/l	81
14) Allyl chloride	2.71	41	1766	0.382	ug/l #	41
16) Acetone	2.45	43	826	0.558	ug/l	90
18) Methyl Acetate	2.78	43	807	0.229	ug/l #	87
24) 1,1-Dichloroethane	3.70	63	1663	0.379	ug/l #	93
27) cis-1,2-Dichloroethene	4.59	96	162451	66.207	ug/l	89
28) Bromochloromethane	4.98	49	19	Below Cal	#	20
29) Tetrahydrofuran	5.14	42	331	0.224	ug/l #	69
36) 1,1-Dichloropropene	5.66	75	15820	5.269	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19208	7.041	ug/l #	14
44) Trichloroethene	7.21	130	1738	0.774	ug/l	97
60) Dibromochloromethane	9.34	129	841	0.374	ug/l #	11
64) Tetrachloroethene	9.34	164	951	0.495	ug/l	87
65) Chlorobenzene	10.13	112	4903	0.875	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	67517	24.920	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67517	63.762	ug/l #	10

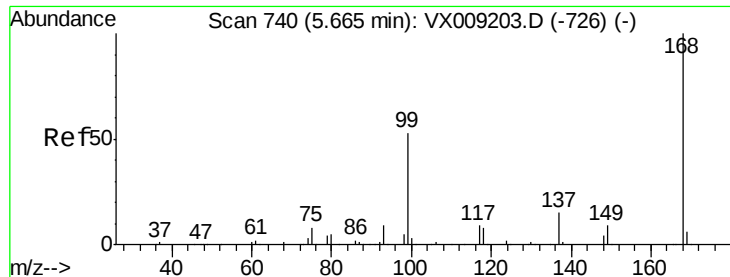
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 01 01:22:54 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
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: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

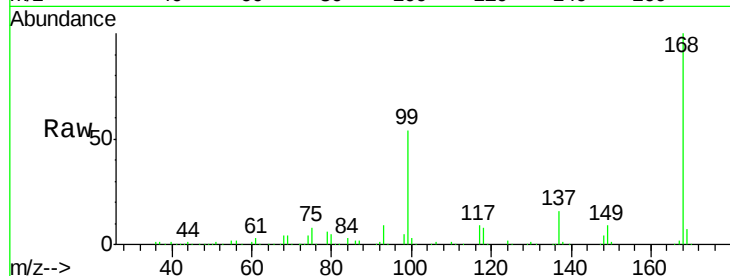
WP021MW346-190425DL

Tot Ion:168 Resp: 202017

Ion Ratio Lower Upper

168 100

99 54.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

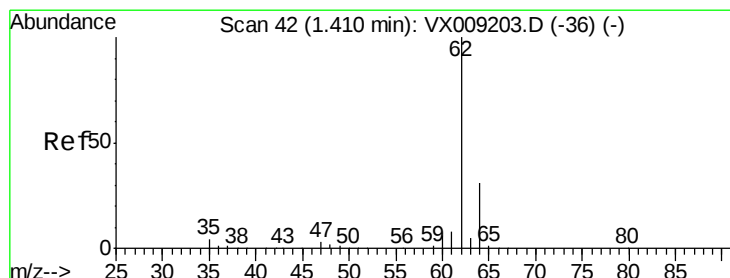
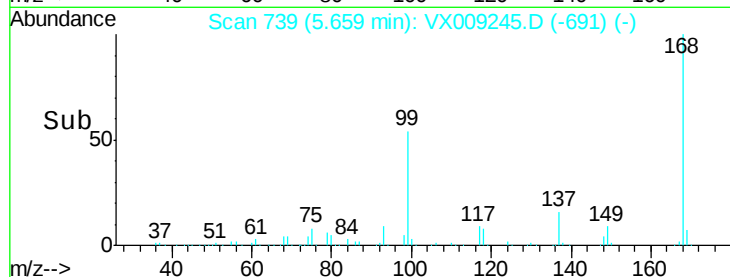
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 20.623 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009245.D

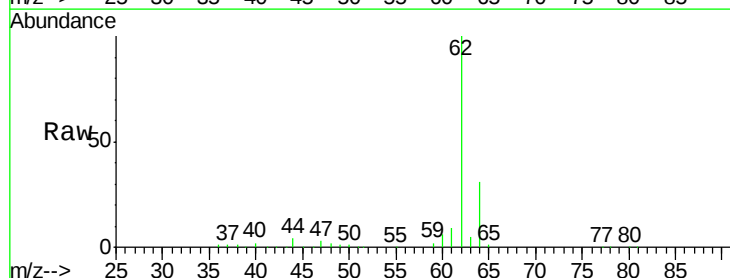
Acq: 30 Apr 2019 14:54

Tgt Ion: 62 Resp: 51112

Ion Ratio Lower Upper

62 100

64 31.4 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

50000

40000

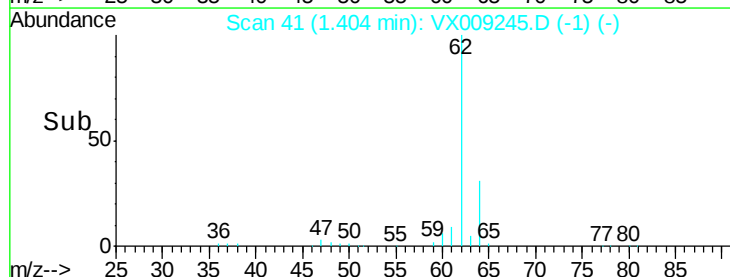
30000

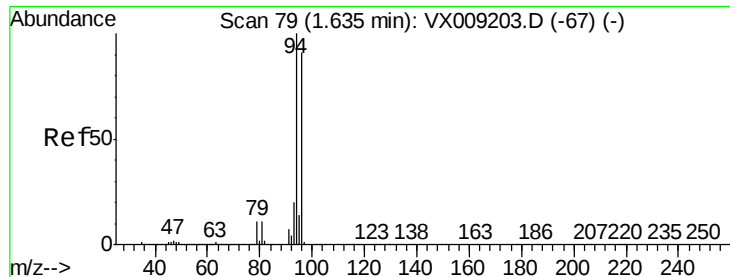
20000

10000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.339 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

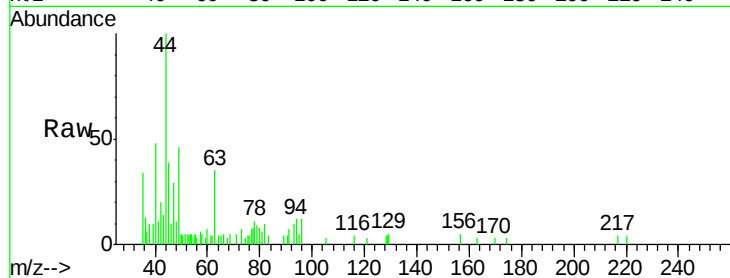
WP021MW346-190425DL

Tot Ion: 94 Resp: 504

Ion Ratio Lower Upper

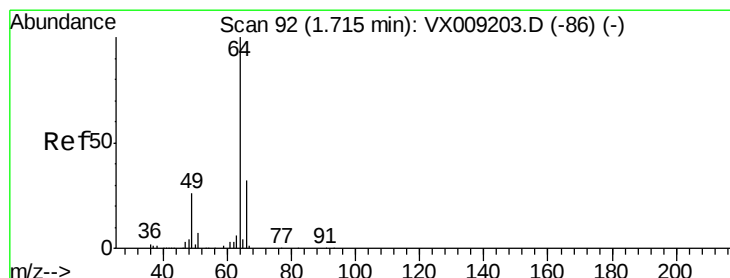
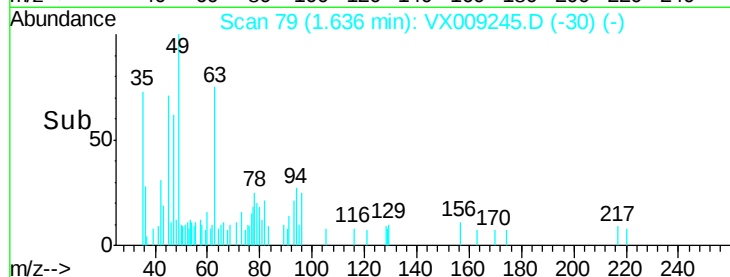
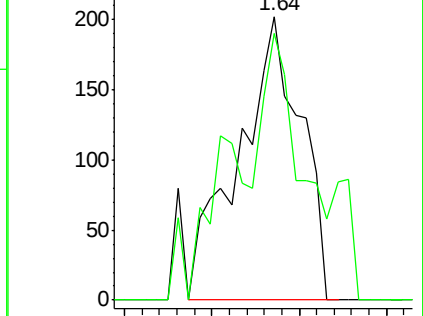
94 100

96 94.1 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.229 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX009245.D

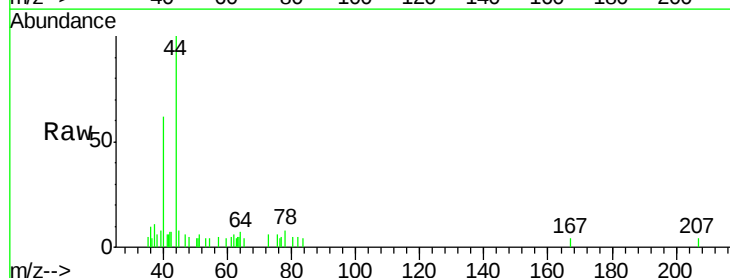
Acq: 30 Apr 2019 14:54

Tgt Ion: 64 Resp: 365

Ion Ratio Lower Upper

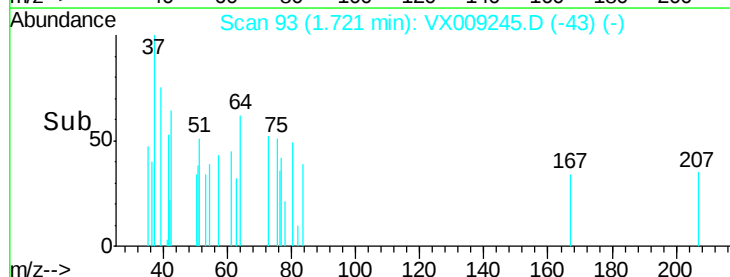
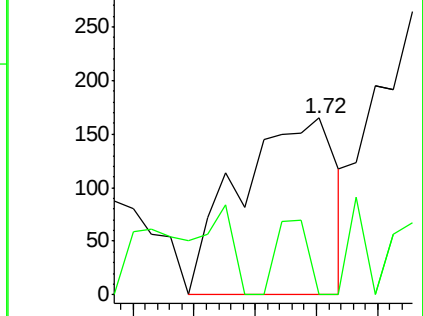
64 100

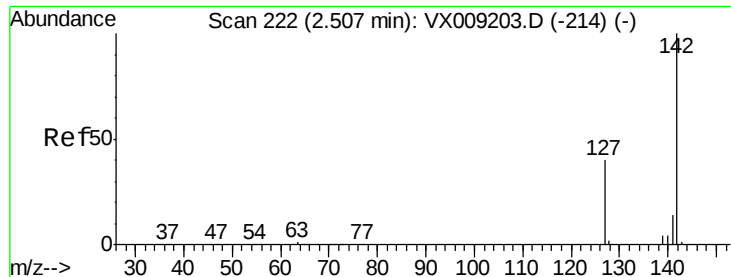
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

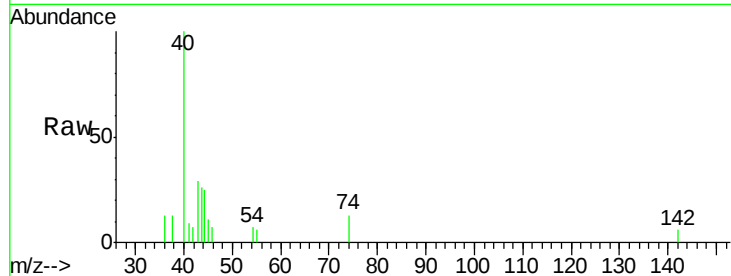




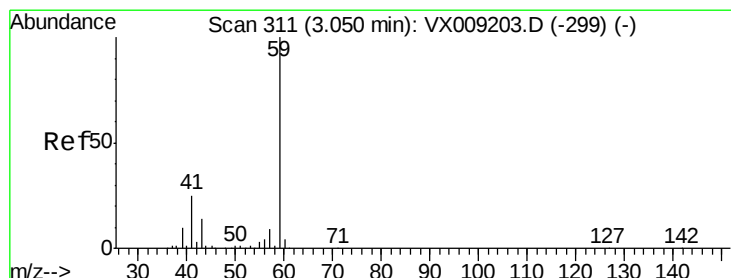
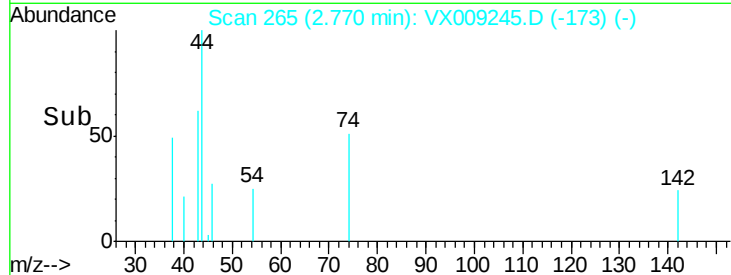
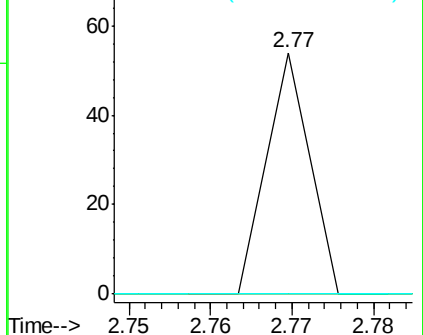
#10
Methyl Iodide
Concen: 4.602 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.26 min
Lab File: VX009245.D
Acq: 30 Apr 2019 14:54

Instrument :
MSVOA_X
ClientSampleId :
WP021MW346-190425DL

Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

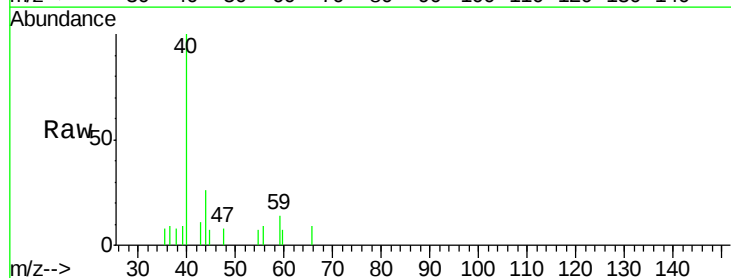


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

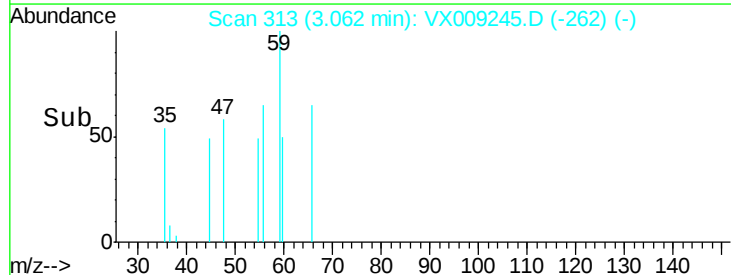
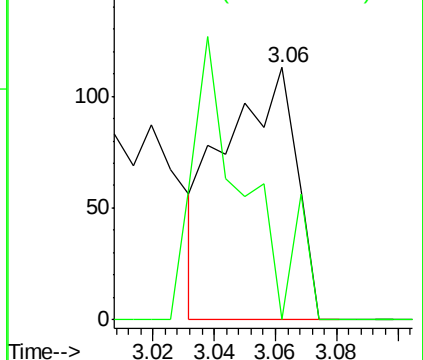


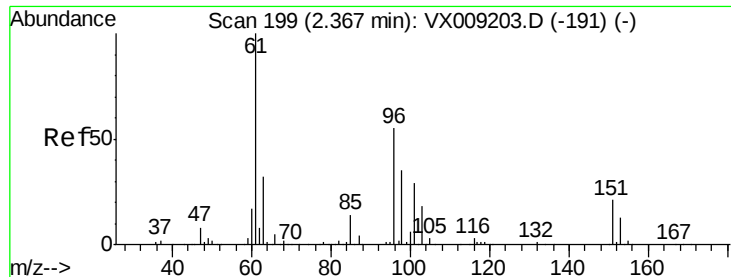
#11
Tert butyl alcohol
Concen: 0.290 ug/l
RT: 3.06 min Scan# 313
Delta R.T. 0.01 min
Lab File: VX009245.D
Acq: 30 Apr 2019 14:54

Tgt Ion: 59 Resp: 185
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#12

1,1-Dichloroethene

Concen: 0.354 ug/l

RT: 2.37 min Scan# 199

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

WP021MW346-190425DL

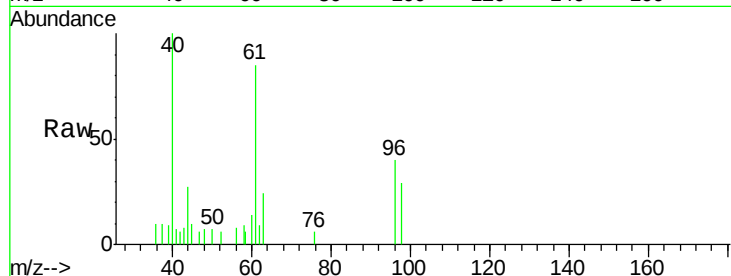
Tot Ion: 96 Resp: 671

Ion Ratio Lower Upper

96 100

61 210.0 144.3 216.5

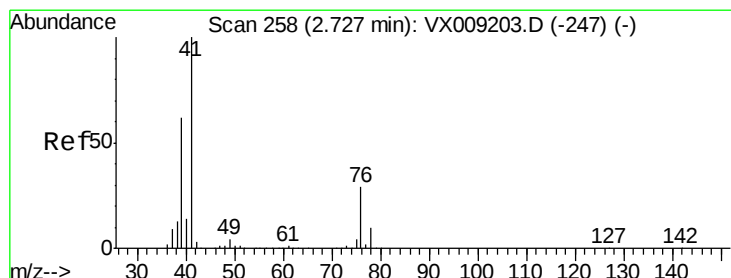
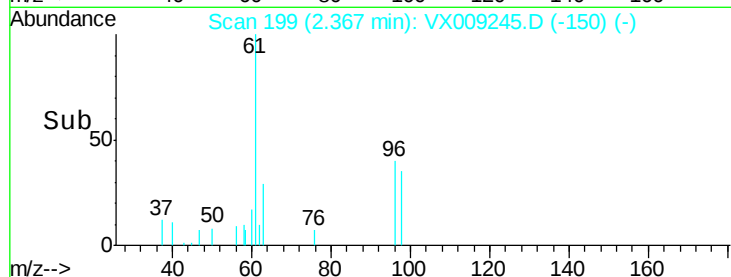
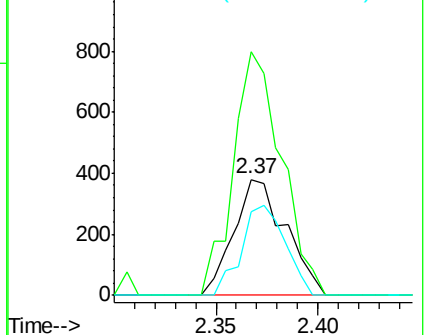
98 72.6 50.3 75.5



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



#14

Allyl chloride

Concen: 0.382 ug/l

RT: 2.71 min Scan# 256

Delta R.T. -0.01 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

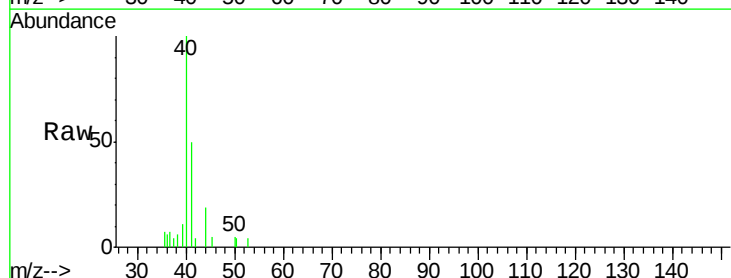
Tgt Ion: 41 Resp: 1766

Ion Ratio Lower Upper

41 100

39 12.3 46.7 70.1#

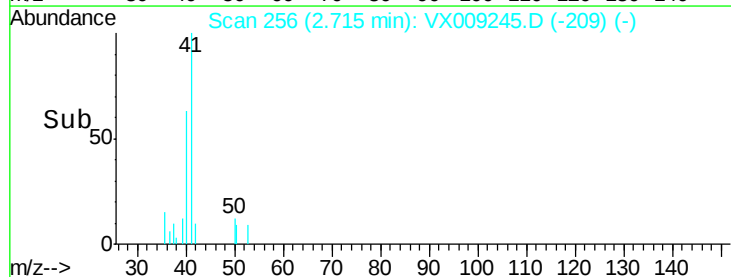
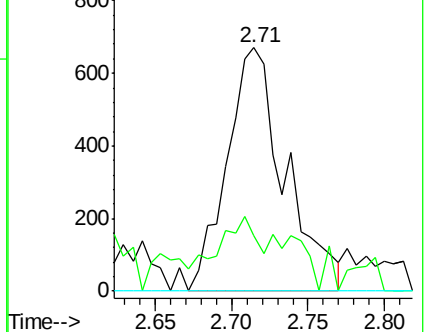
76 0.0 21.8 32.8#

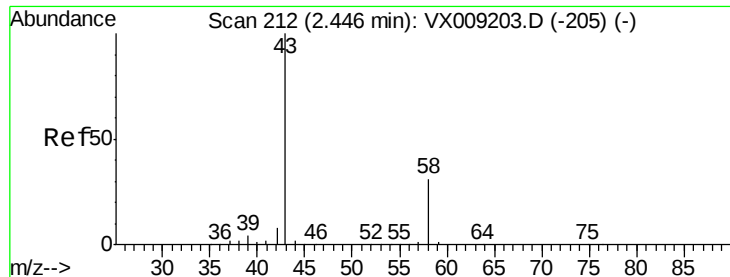


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 0.558 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

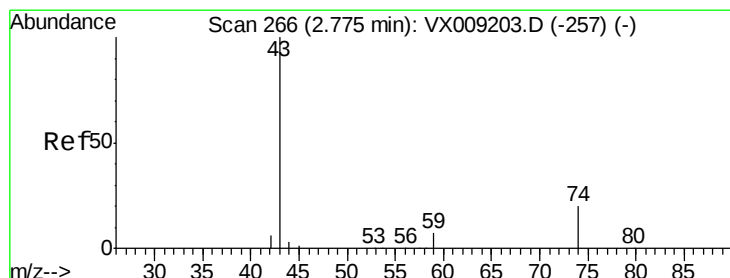
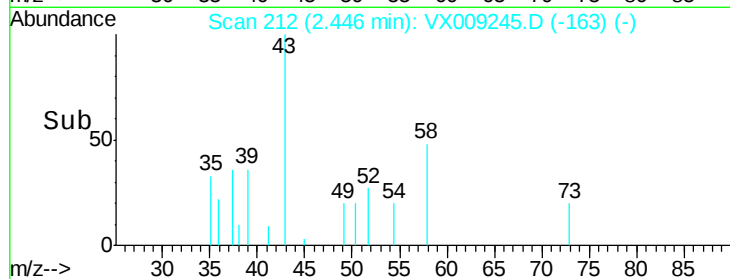
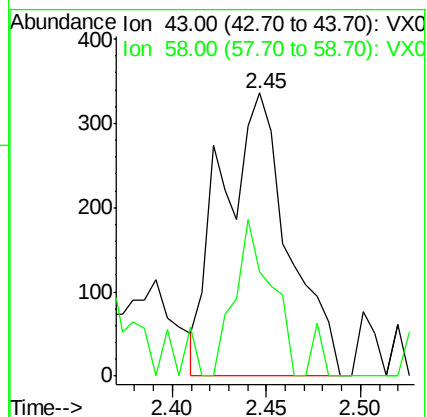
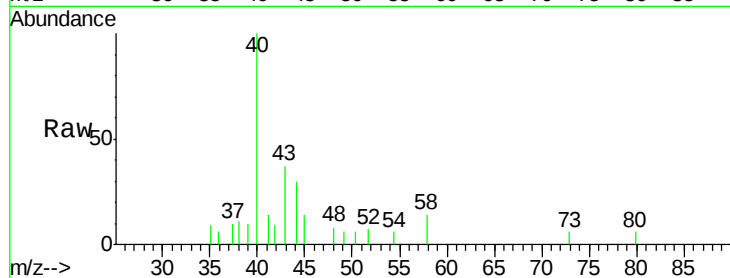
WP021MW346-190425DL

Tot Ion: 43 Resp: 826

Ion Ratio Lower Upper

43 100

58 36.6 24.9 37.3



#18

Methyl Acetate

Concen: 0.229 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009245.D

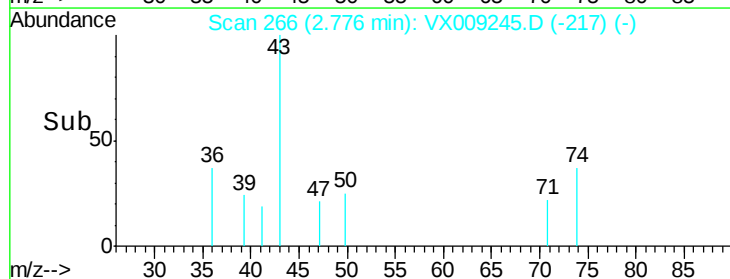
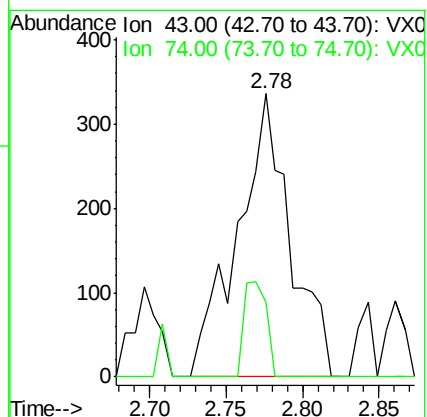
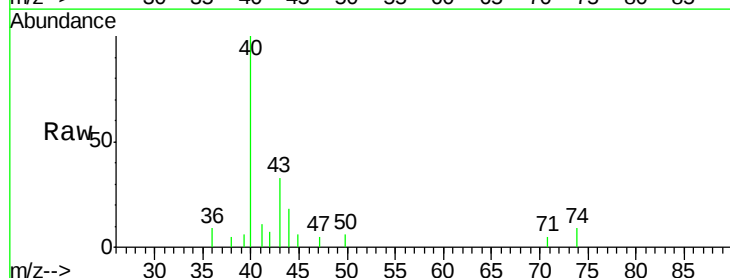
Acq: 30 Apr 2019 14:54

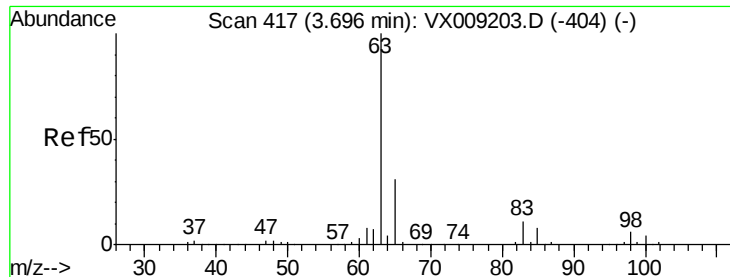
Tgt Ion: 43 Resp: 807

Ion Ratio Lower Upper

43 100

74 14.3 16.2 24.4#





#24

1,1-Dichloroethane

Concen: 0.379 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

WP021MW346-190425DL

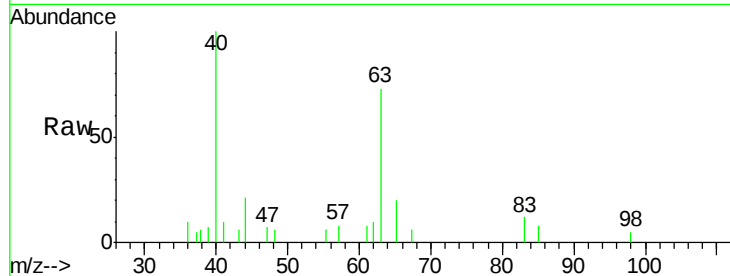
Tot Ion: 63 Resp: 1663

Ion Ratio Lower Upper

63 100

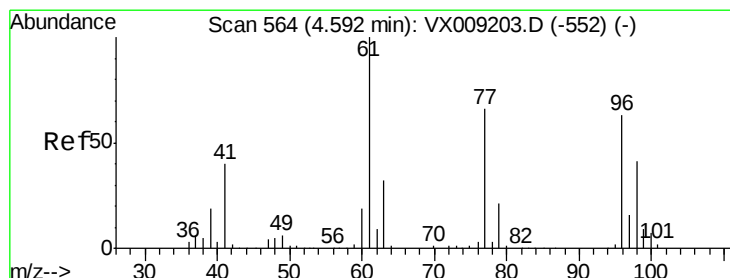
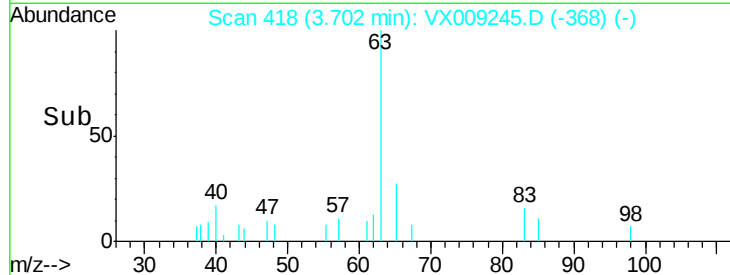
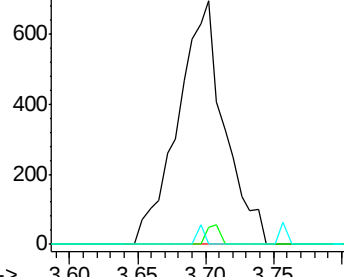
98 7.2 3.0 9.2

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0

3.70



#27

cis-1,2-Dichloroethene

Concen: 66.207 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

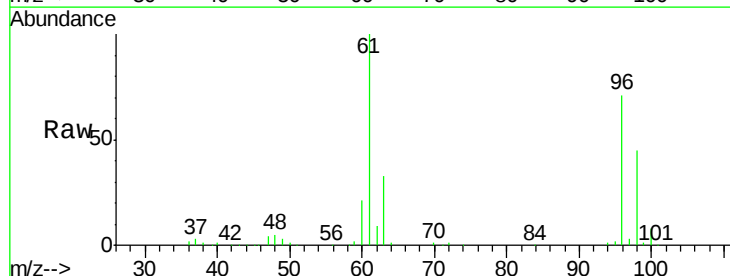
Tgt Ion: 96 Resp: 162451

Ion Ratio Lower Upper

96 100

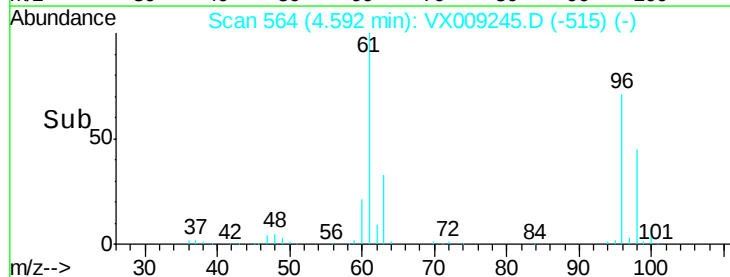
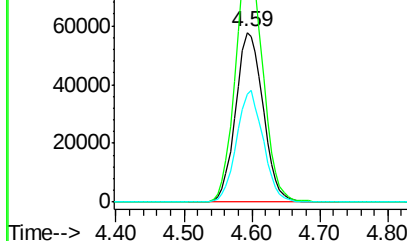
61 142.5 0.0 324.0

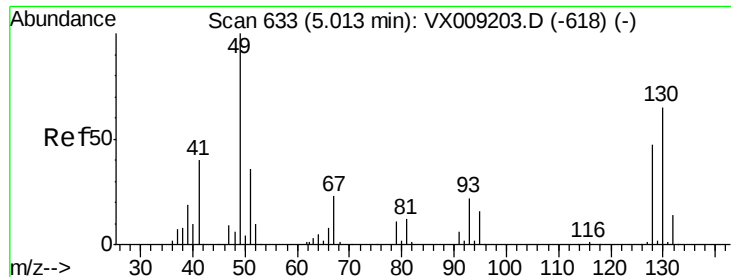
98 63.8 0.0 130.4



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

4.59





#28

Bromochloromethane

Concen: Below Cal

RT: 4.98 min Scan# 628

Delta R.T. -0.03 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

WP021MW346-190425DL

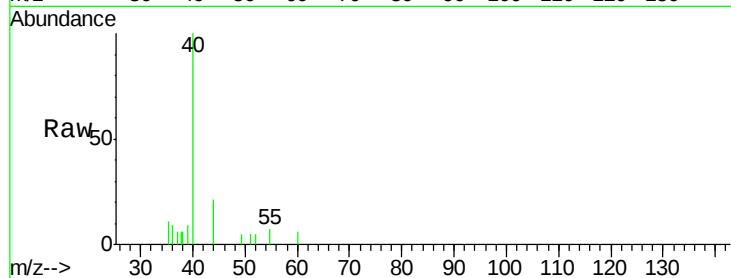
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

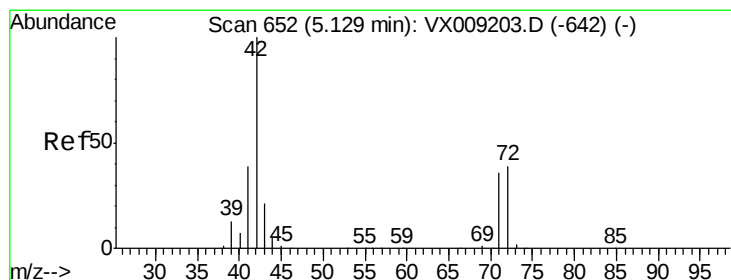
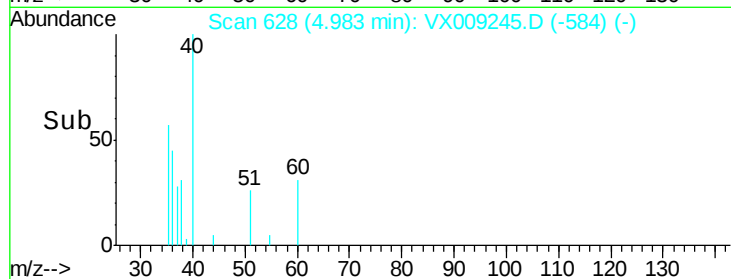
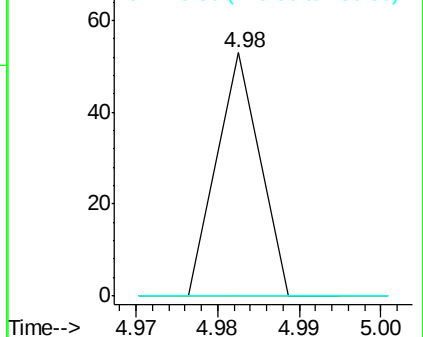
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.224 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

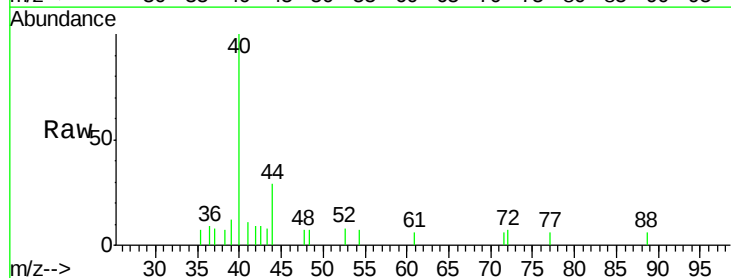
Tgt Ion: 42 Resp: 331

Ion Ratio Lower Upper

42 100

72 30.2 30.4 45.6#

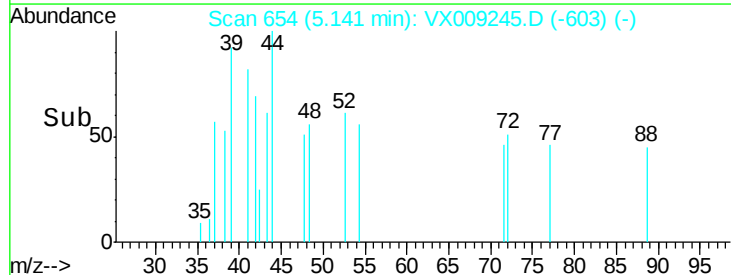
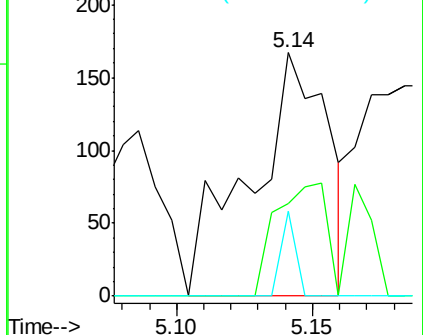
71 6.3 28.6 43.0#

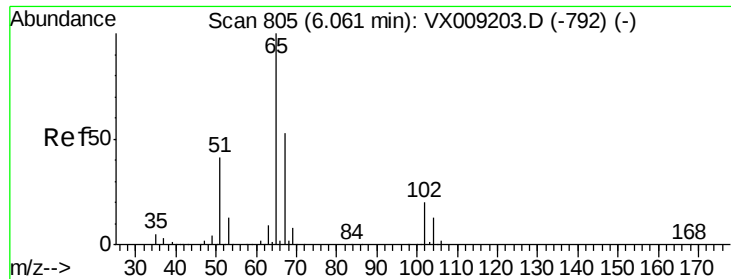


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

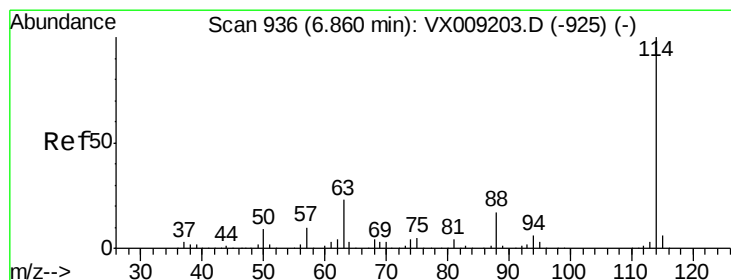
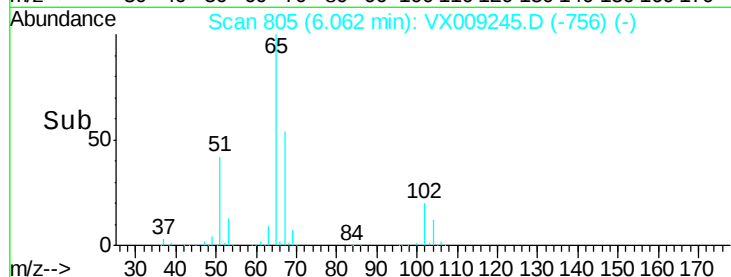
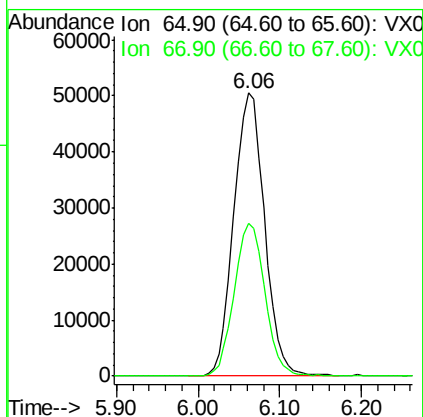
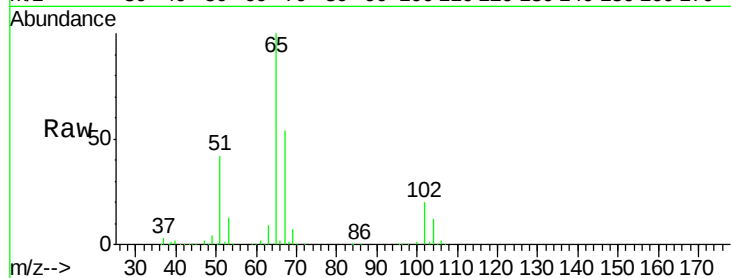




#33
 1,2-Dichloroethane-d4
 Concen: 47.945 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009245.D
 Acq: 30 Apr 2019 14:54

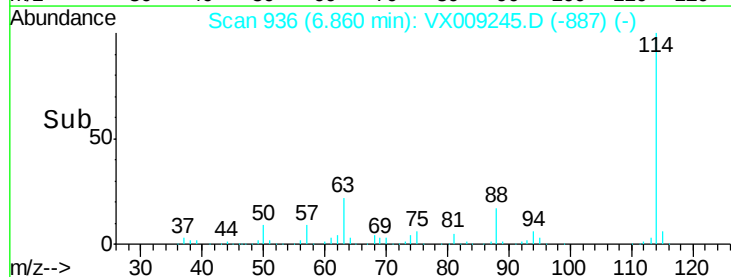
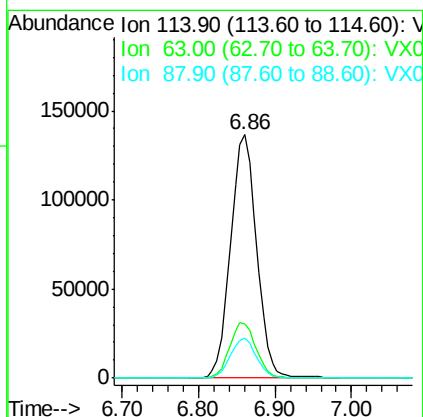
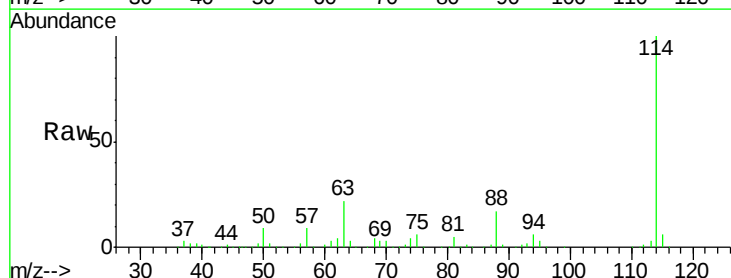
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW346-190425DL

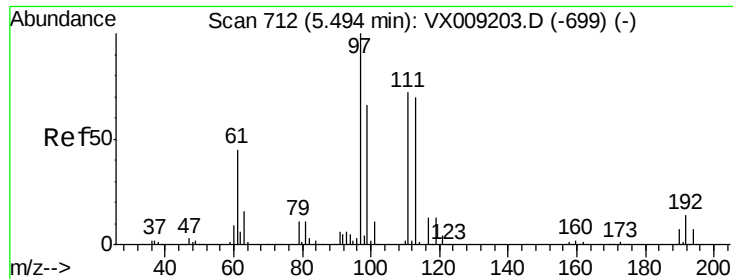
Tot Ion: 65 Resp: 132221
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009245.D
 Acq: 30 Apr 2019 14:54

Tgt Ion: 114 Resp: 323103
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.6
 88 16.6 0.0 33.2

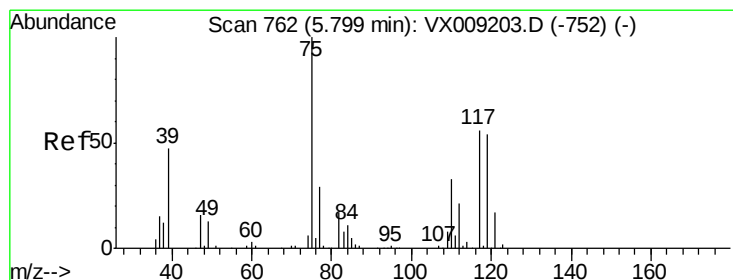
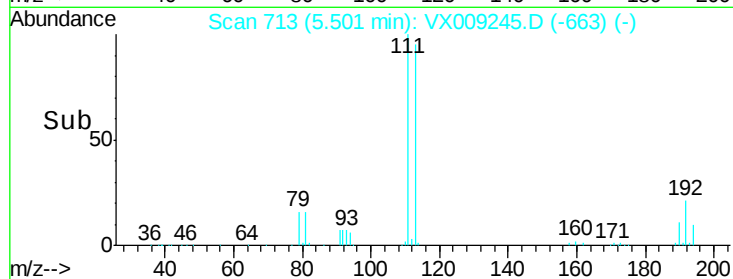
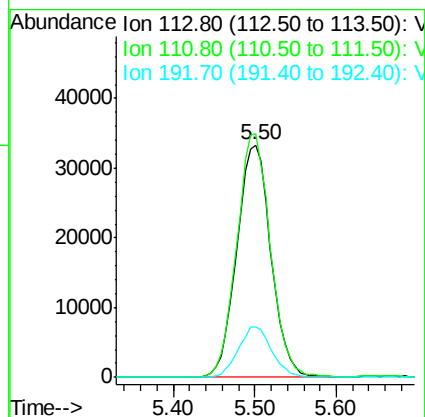
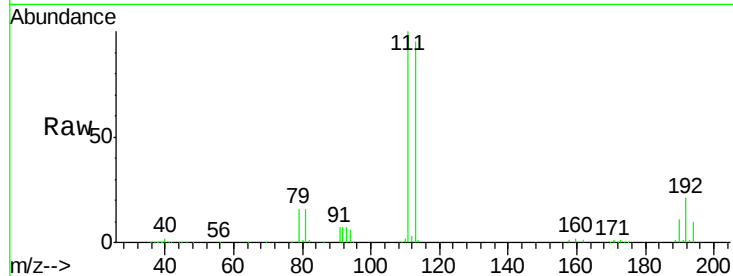




#35
Dibromofluoromethane
Concen: 47.592 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009245.D
Acq: 30 Apr 2019 14:54

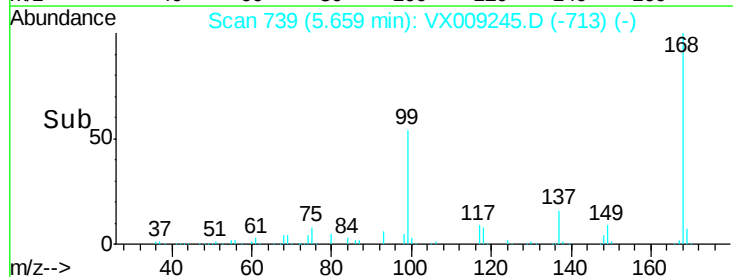
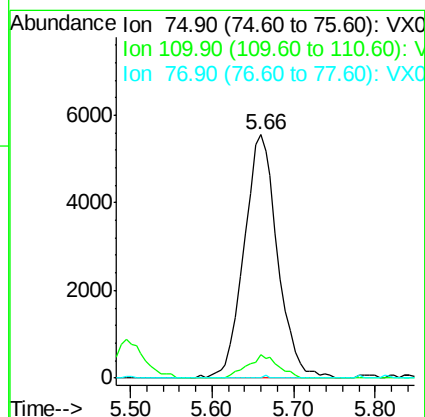
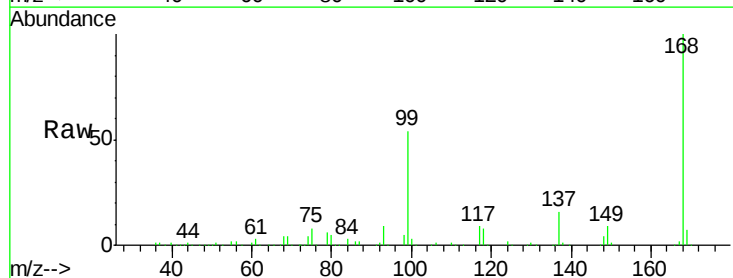
Instrument :
MSVOA_X
ClientSampleId :
WP021MW346-190425DL

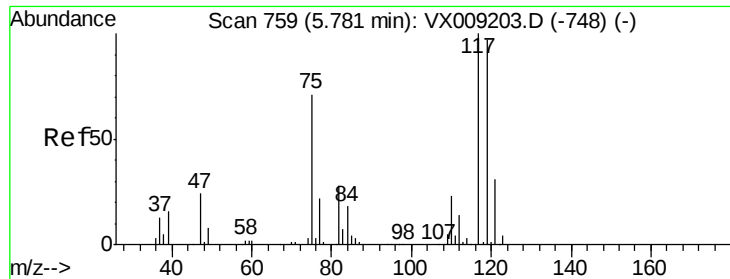
Tot Ion:113 Resp: 96667
Ion Ratio Lower Upper
113 100
111 103.4 82.8 124.2
192 21.4 17.0 25.6



#36
1,1-Dichloropropene
Concen: 5.269 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX009245.D
Acq: 30 Apr 2019 14:54

Tgt Ion: 75 Resp: 15820
Ion Ratio Lower Upper
75 100
110 8.7 16.9 50.6#
77 0.1 24.8 37.2#

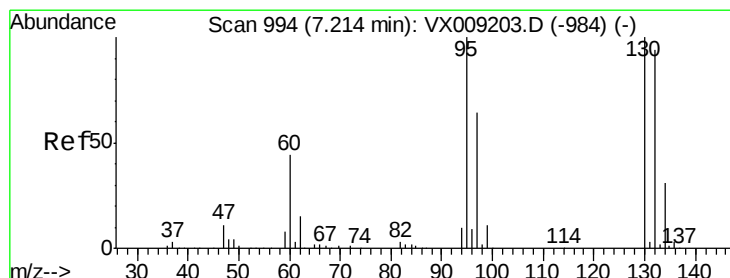
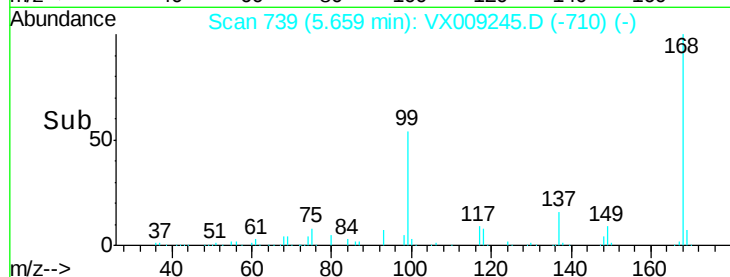
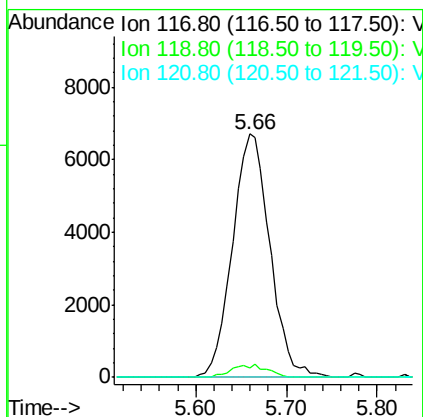
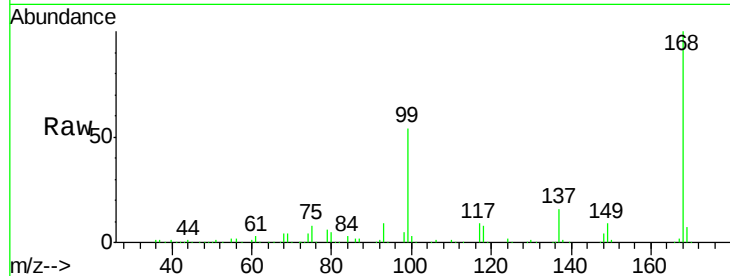




#38
Carbon Tetrachloride
Concen: 7.041 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX009245.D
Acq: 30 Apr 2019 14:54

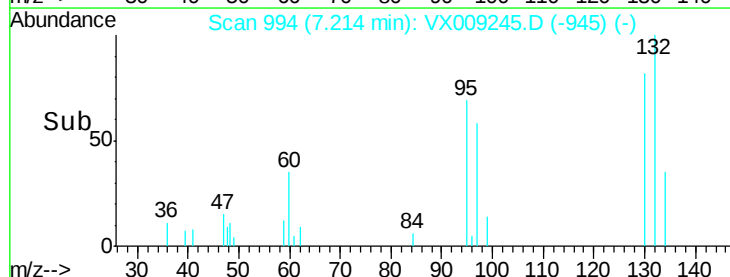
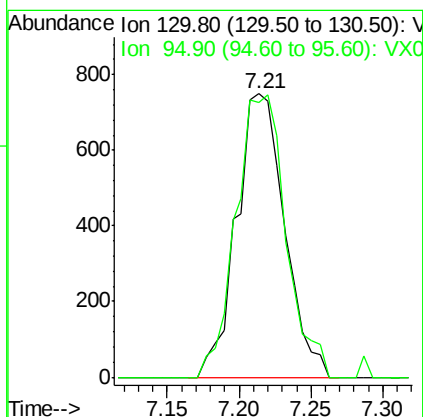
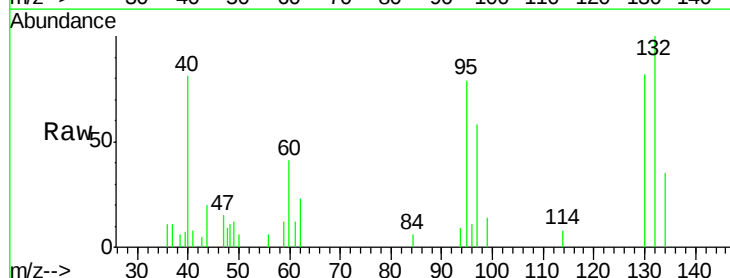
Instrument :
MSVOA_X
ClientSampleId :
WP021MW346-190425DL

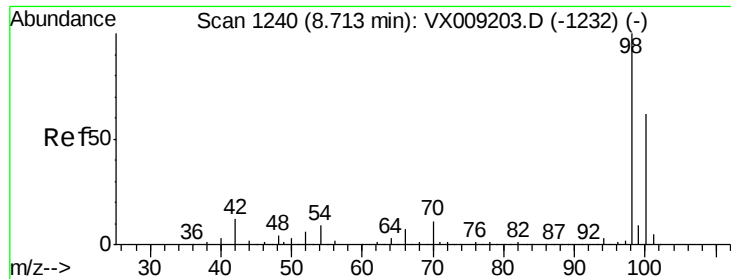
Tot Ion:117 Resp: 19208
Ion Ratio Lower Upper
117 100
119 3.7 77.5 116.3#
121 0.0 24.7 37.1#



#44
Trichloroethene
Concen: 0.774 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX009245.D
Acq: 30 Apr 2019 14:54

Tgt Ion:130 Resp: 1738
Ion Ratio Lower Upper
130 100
95 96.9 0.0 199.2





#50

Toluene-d8

Concen: 49.508 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

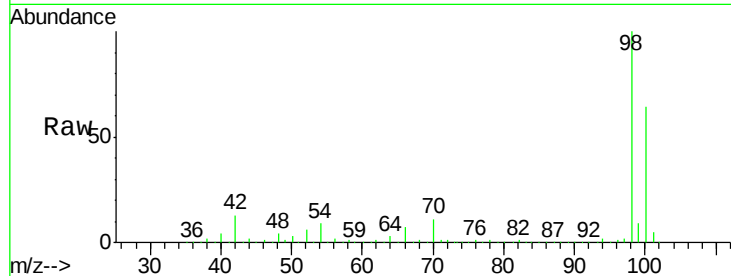
WP021MW346-190425DL

Tot Ion: 98 Resp: 405981

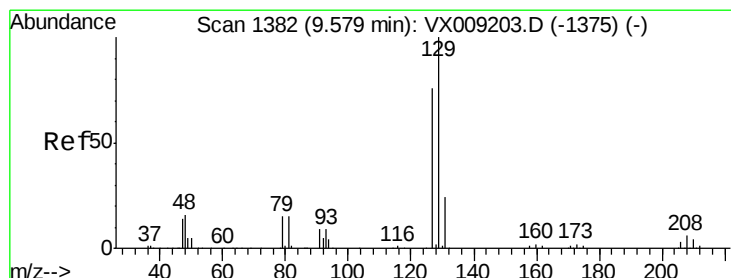
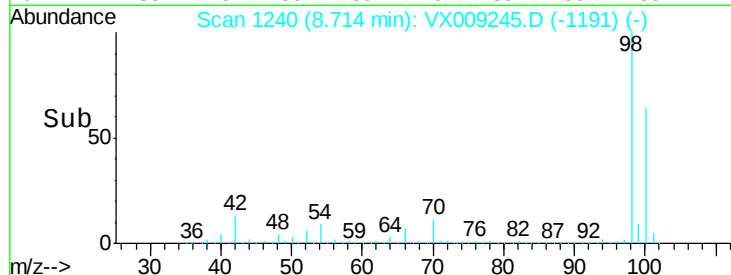
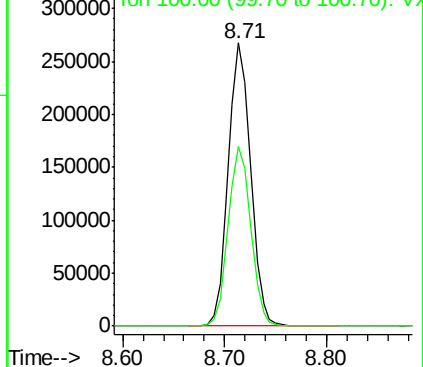
Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX009203.D (-1232) (-)



#60

Dibromochloromethane

Concen: 0.374 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009245.D

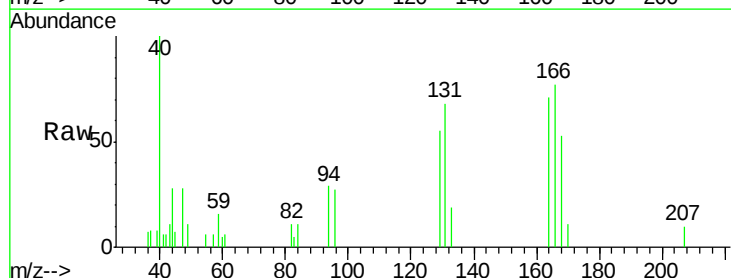
Acq: 30 Apr 2019 14:54

Tgt Ion: 129 Resp: 841

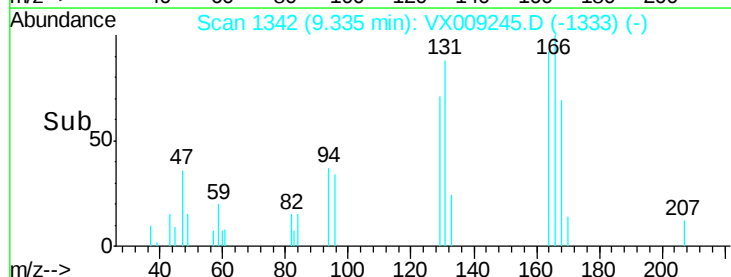
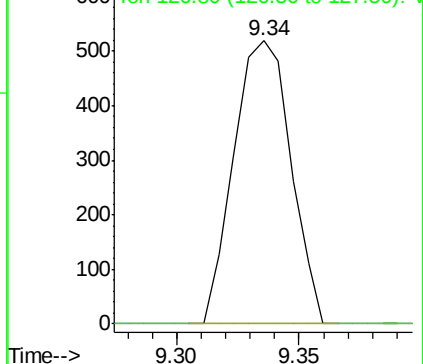
Ion Ratio Lower Upper

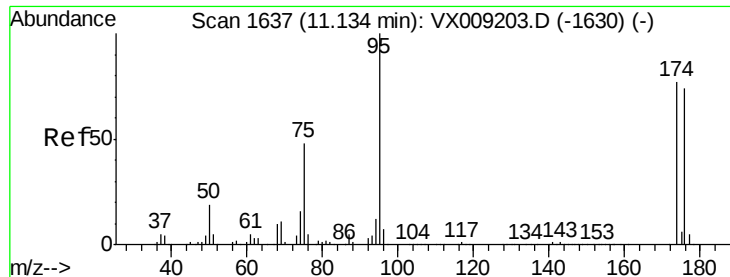
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): VX009203.D (-1375) (-)





#62

4-Bromofluorobenzene

Concen: 44.349 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

WP021MW346-190425DL

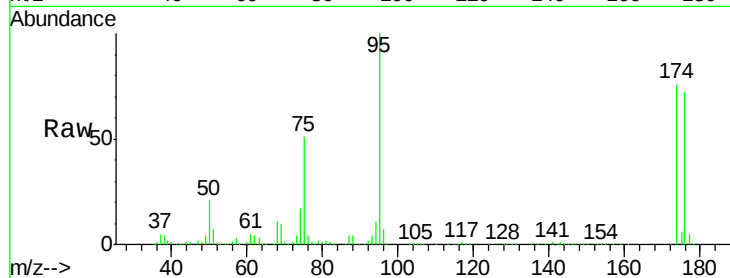
Tot Ion: 95 Resp: 132146

Ion Ratio Lower Upper

95 100

174 81.1 0.0 161.6

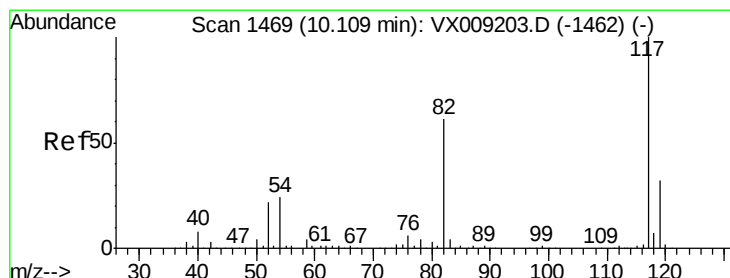
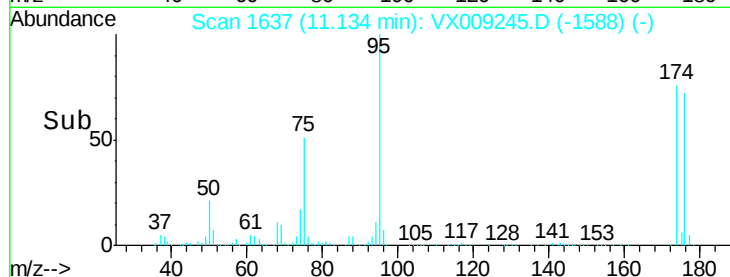
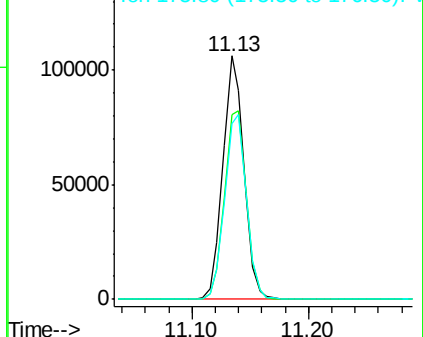
176 78.7 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009245.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009245.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009245.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

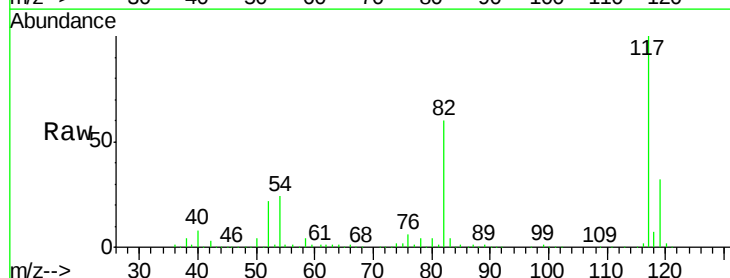
Tgt Ion: 117 Resp: 280243

Ion Ratio Lower Upper

117 100

82 60.3 48.8 73.2

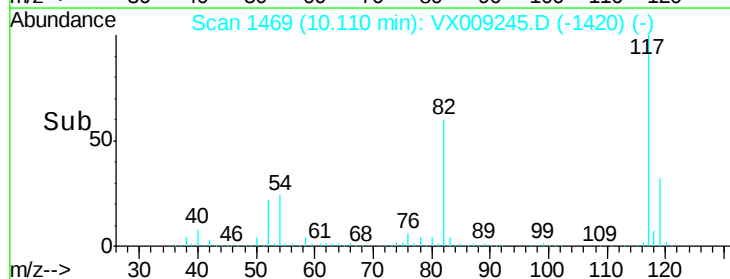
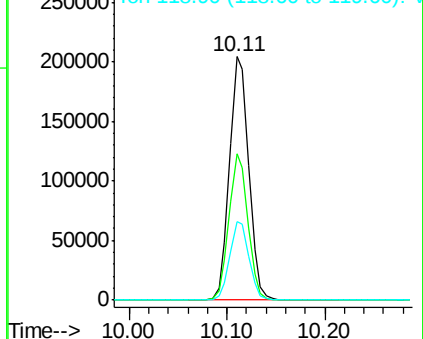
119 32.1 25.8 38.6

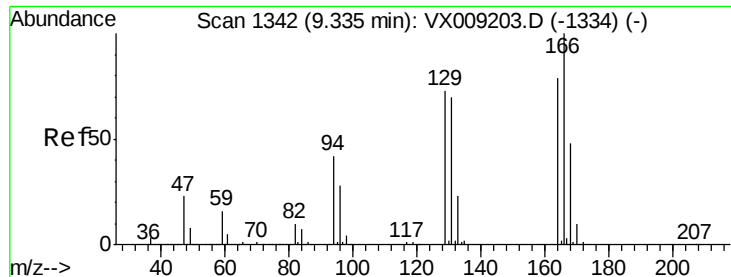


Abundance Ion 116.90 (116.60 to 117.60): VX009245.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009245.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009245.D (-1420) (-)

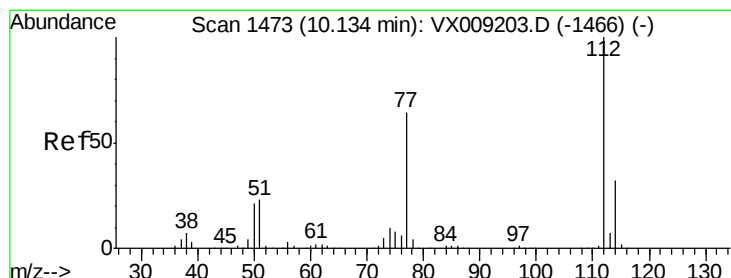
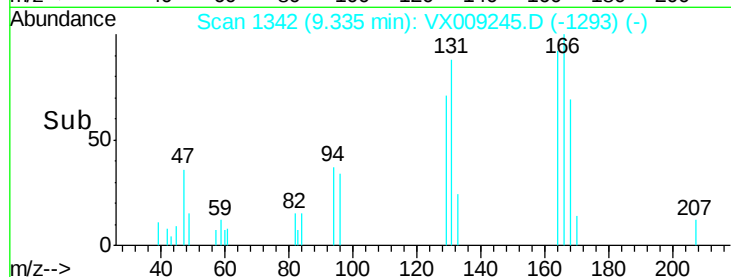
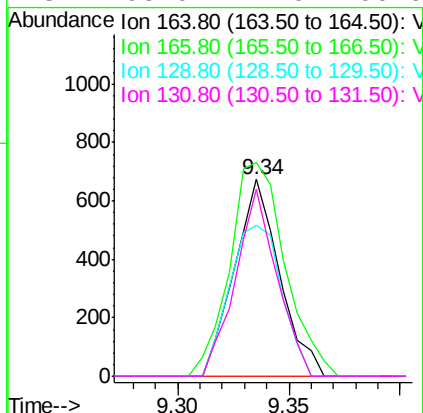
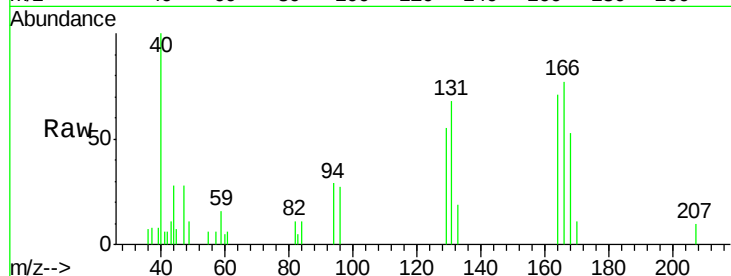




#64
 Tetrachloroethene
 Concen: 0.495 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VX009245.D
 Acq: 30 Apr 2019 14:54

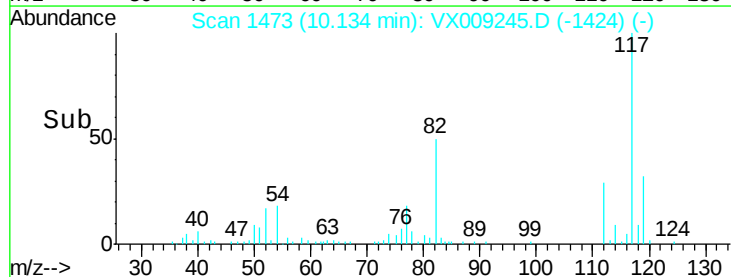
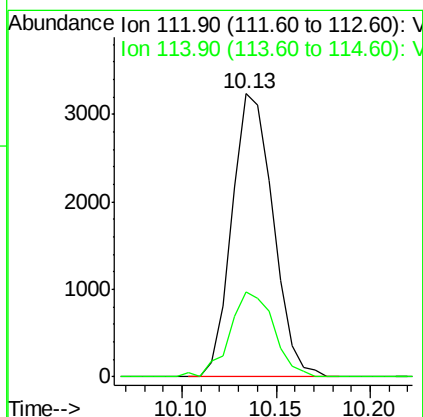
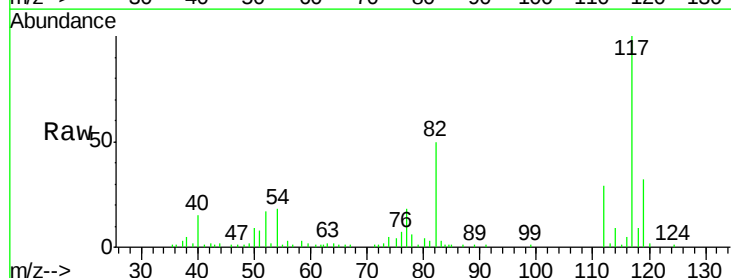
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW346-190425DL

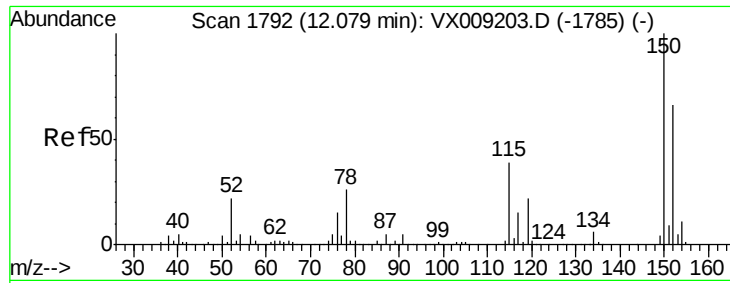
Tot Ion:	164	Resp:	951
Ion	Ratio	Lower	Upper
164	100		
166	108.5	101.2	151.8
129	77.0	74.3	111.5
131	95.0	71.0	106.6



#65
 Chlorobenzene
 Concen: 0.875 ug/l
 RT: 10.13 min Scan# 1473
 Delta R.T. 0.00 min
 Lab File: VX009245.D
 Acq: 30 Apr 2019 14:54

Tgt Ion:	112	Resp:	4903
Ion	Ratio	Lower	Upper
112	100		
114	30.0	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

WP021MW346-190425DL

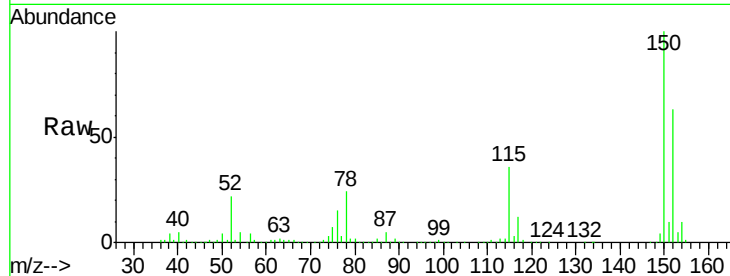
Tot Ion:152 Resp: 116800

Ion Ratio Lower Upper

152 100

115 59.2 41.2 123.6

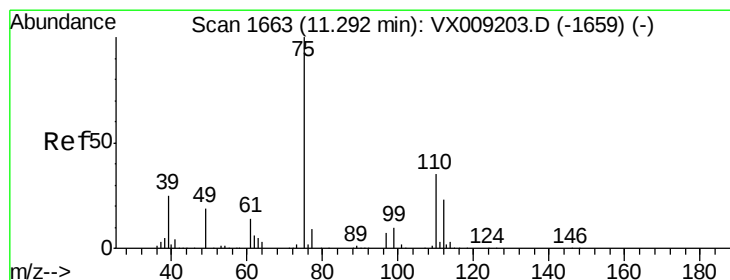
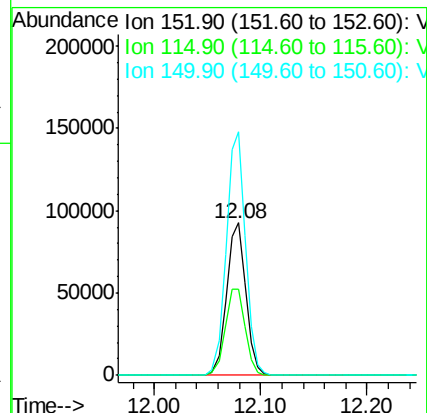
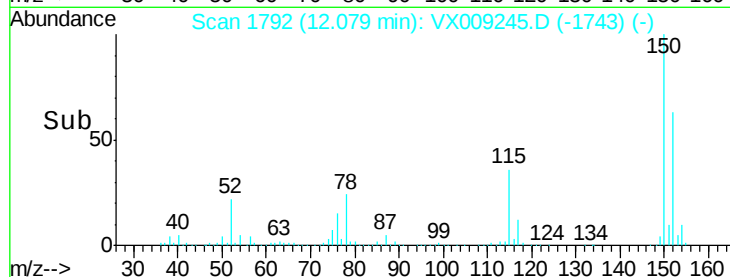
150 158.7 0.0 346.4



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: 24.920 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009245.D

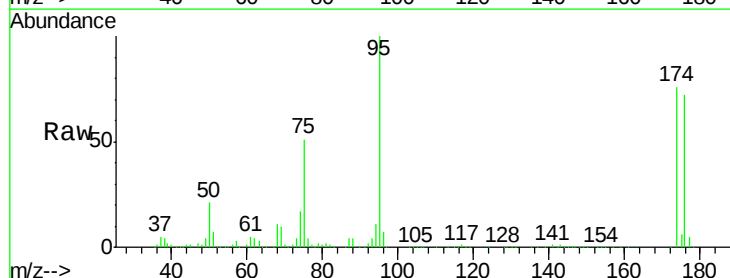
Acq: 30 Apr 2019 14:54

Tgt Ion: 75 Resp: 67517

Ion Ratio Lower Upper

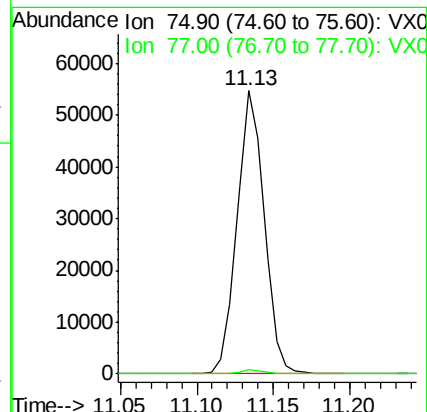
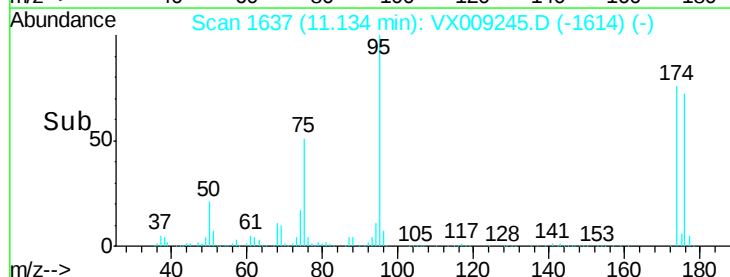
75 100

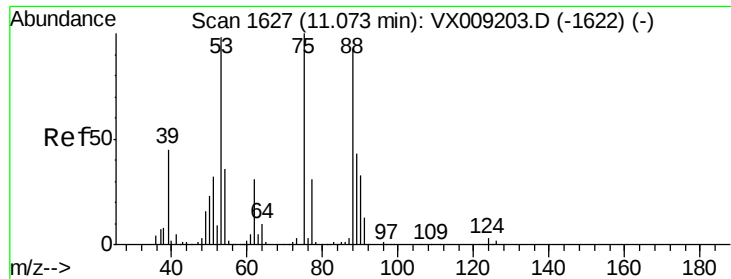
77 1.4 22.1 66.1#



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: 63.762 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009245.D

Acq: 30 Apr 2019 14:54

Instrument :

MSVOA_X

ClientSampleId :

WP021MW346-190425DL

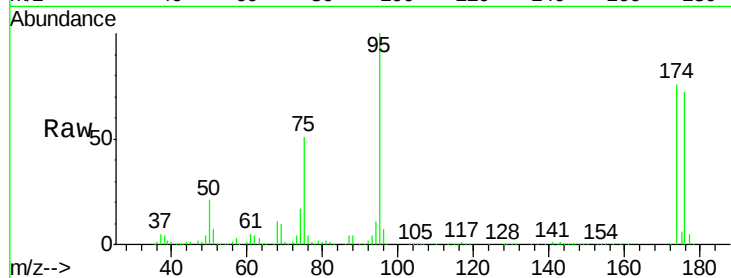
Tot Ion: 75 Resp: 67517

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

