

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\
 Data File : VX003074.D
 Acq On : 30 Jun 2018 13:10
 Operator : JC/MD
 Sample : J3668-03DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW245-180620DL

Quant Time: Jul 02 02:40:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	298198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	413991	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	388919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	222812	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	192373	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	
35) Dibromofluoromethane	5.51	113	157779	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
50) Toluene-d8	8.72	98	583332	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	11.14	95	208078	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

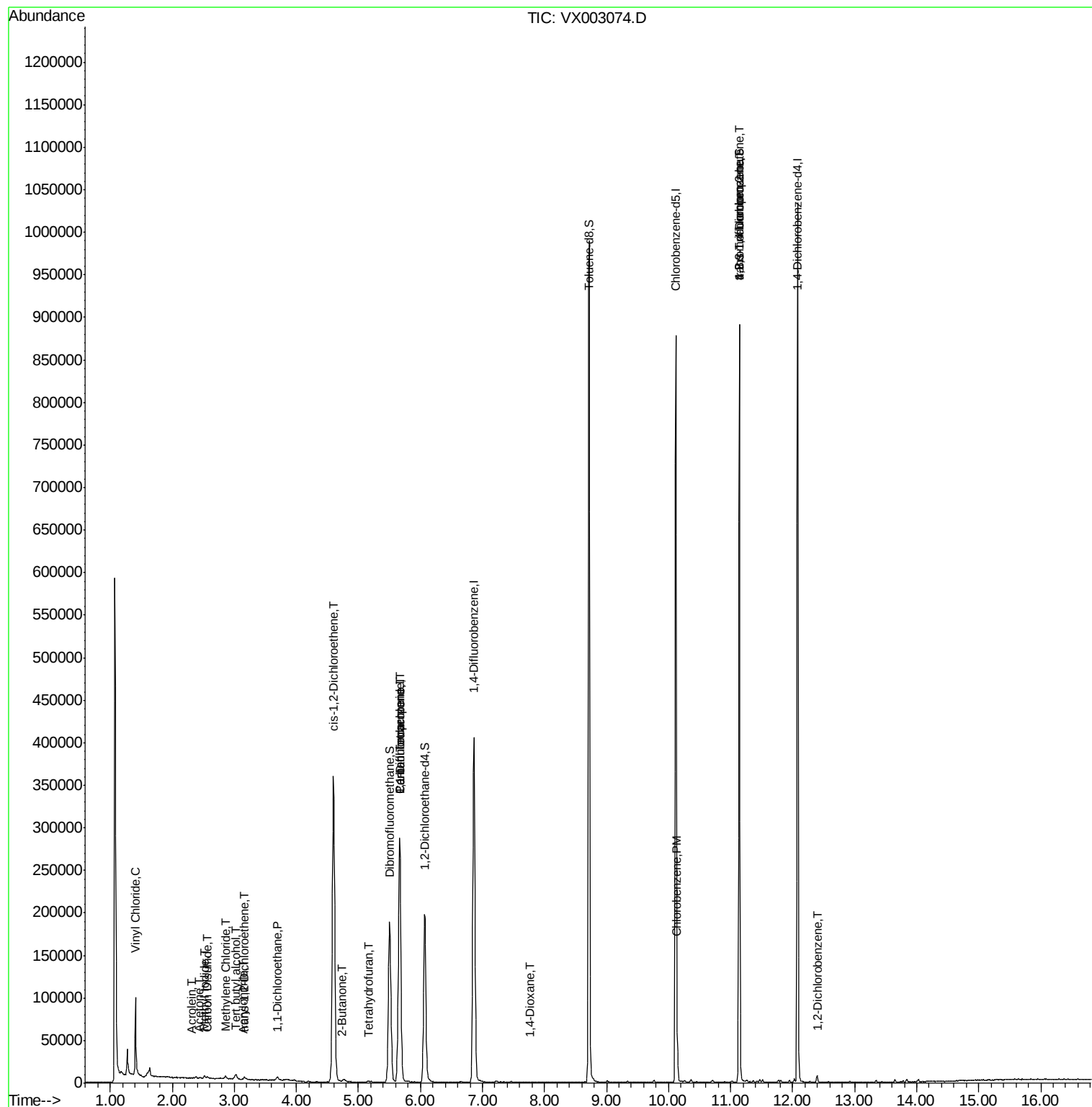
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	188	Below Cal	#	43
3) Chloromethane	1.33	50	650	Below Cal	#	87
4) Vinyl Chloride	1.40	62	57396	17.02	ug/l	95
5) Bromomethane	1.64	94	1768	Below Cal		99
6) Chloroethane	1.72	64	188	Below Cal	#	85
10) Methyl Iodide	2.52	142	3664	7.19	ug/l	95
11) Tert butyl alcohol	3.01	59	3754	4.57	ug/l	86
13) Acrolein	2.30	56	219	4.70	ug/l	13
15) Acrylonitrile	3.14	53	663	0.38	ug/l	88
16) Acetone	2.44	43	1453	0.85	ug/l	95
17) Carbon Disulfide	2.57	76	2292	0.29	ug/l	70
20) Methylene Chloride	2.86	84	1390	0.42	ug/l	82
21) trans-1,2-Dichloroethene	3.17	96	920	0.29	ug/l	89
24) 1,1-Dichloroethane	3.70	63	3506	0.58	ug/l	90
25) 2-Butanone	4.73	43	944	0.37	ug/l	52
27) cis-1,2-Dichloroethene	4.60	96	228221	63.55	ug/l	82
29) Tetrahydrofuran	5.17	42	1257	0.77	ug/l	69
36) 1,1-Dichloropropene	5.66	75	19474	4.29	ug/l	50
38) Carbon Tetrachloride	5.66	117	26745	5.37	ug/l	17
49) 1,4-Dioxane	7.76	88	68	0.83	ug/l	55
65) Chlorobenzene	10.14	112	15789	1.60	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	107501	26.64	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	107501	75.45	ug/l	7
91) 1,2-Dichlorobenzene	12.40	146	1878	0.24	ug/l	95

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

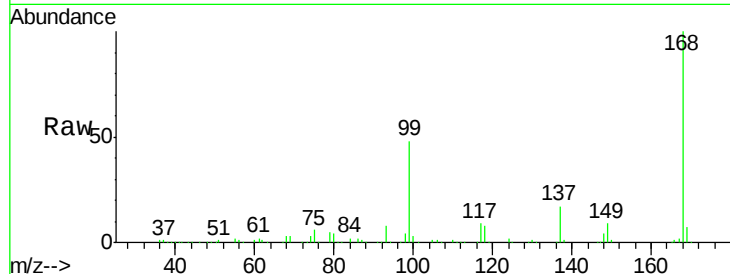
WP021RW245-180620DL

Tot Ion:168 Resp: 298198

Ion Ratio Lower Upper

168 100

99 48.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

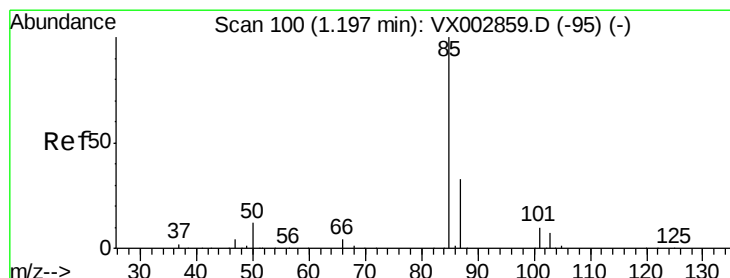
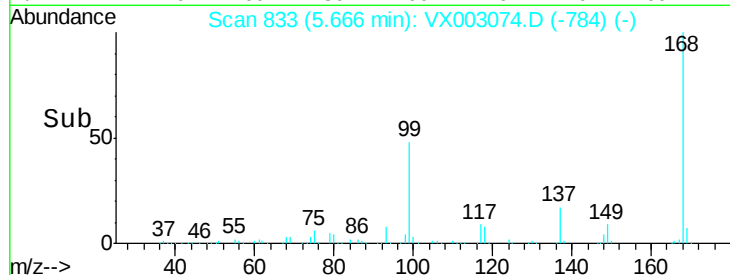
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX003074.D

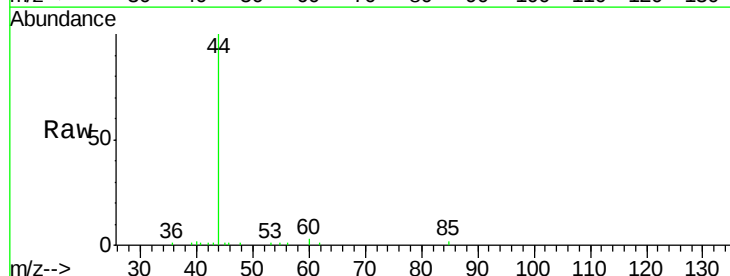
Acq: 30 Jun 2018 13:10

Tgt Ion: 85 Resp: 188

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

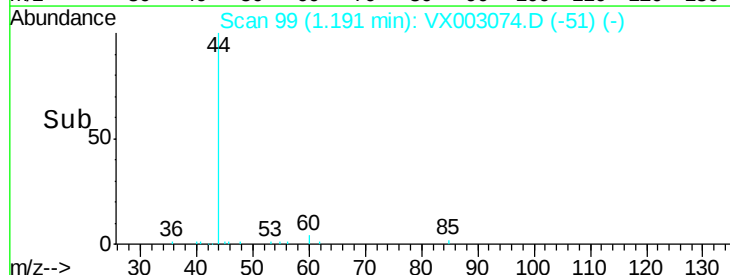
150

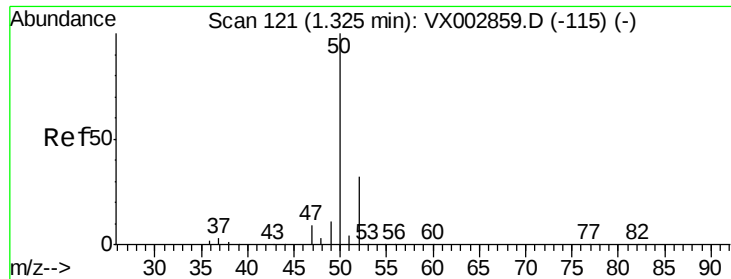
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

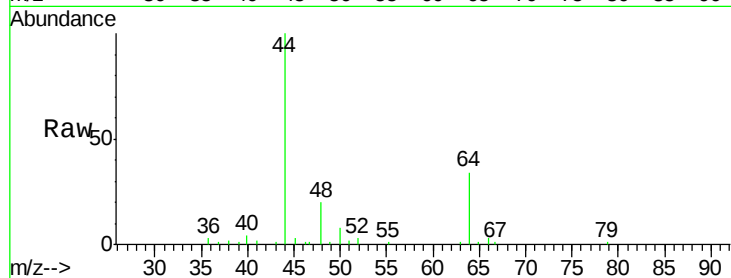
WP021RW245-180620DL

Tot Ion: 50 Resp: 650

Ion Ratio Lower Upper

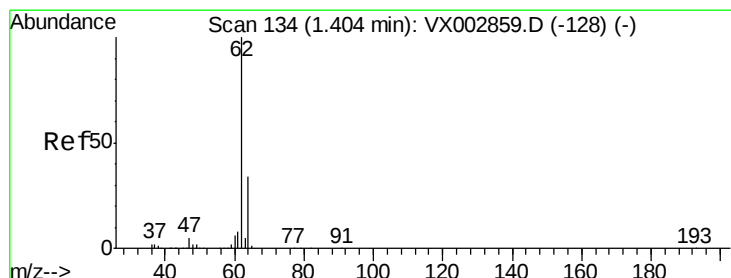
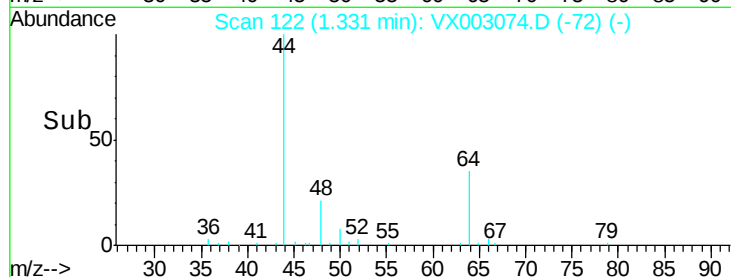
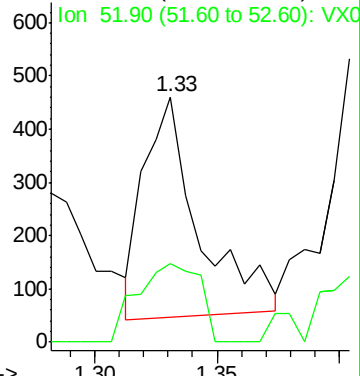
50 100

52 25.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 17.02 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003074.D

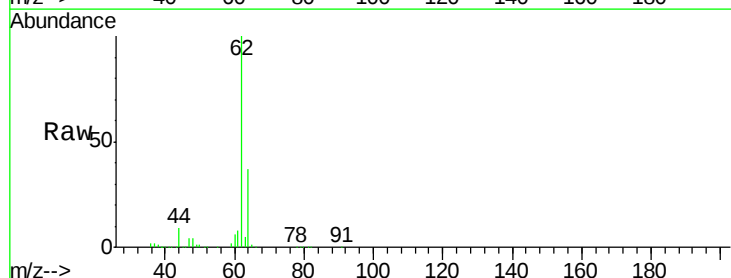
Acq: 30 Jun 2018 13:10

Tgt Ion: 62 Resp: 57396

Ion Ratio Lower Upper

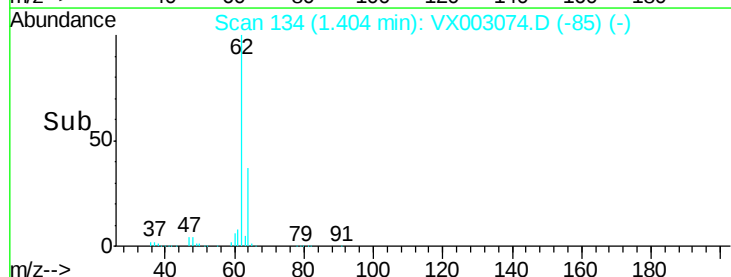
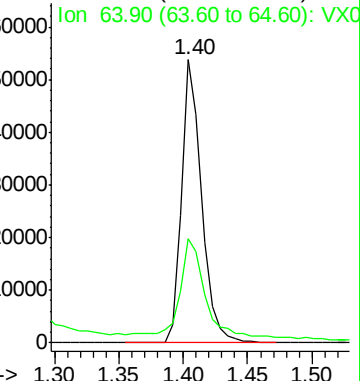
62 100

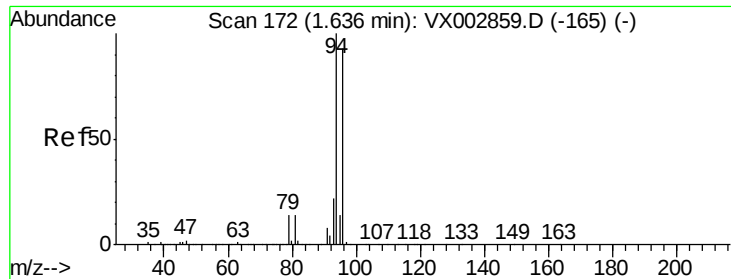
64 34.8 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

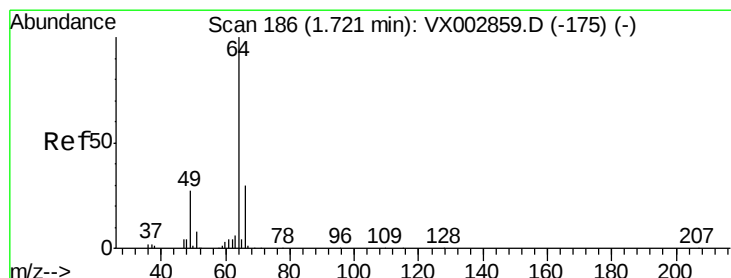
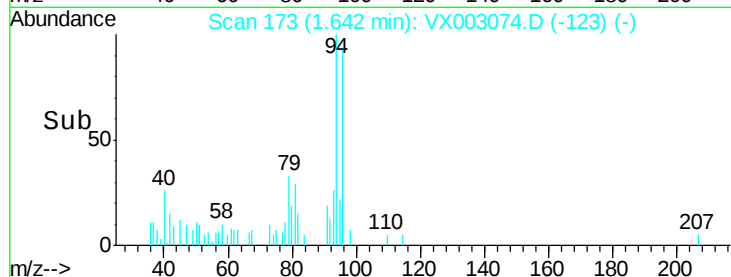
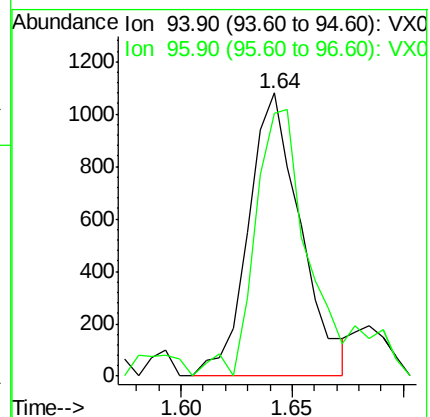
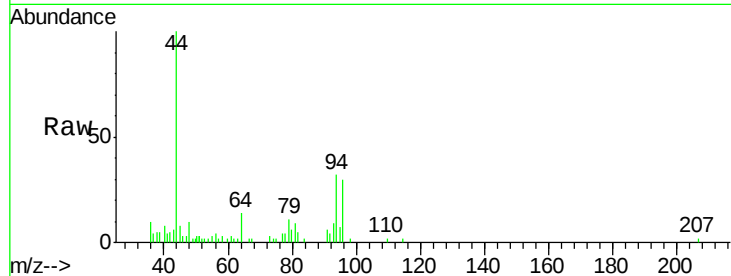
WP021RW245-180620DL

Tot Ion: 94 Resp: 1768

Ion Ratio Lower Upper

94 100

96 92.7 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX003074.D

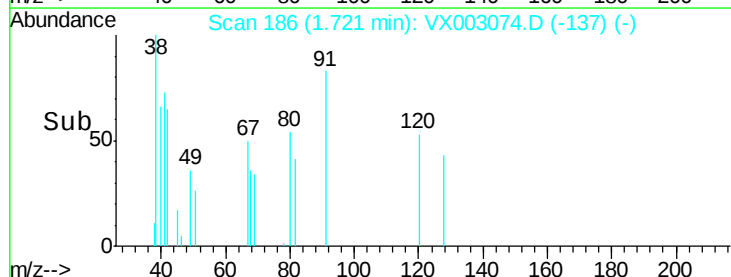
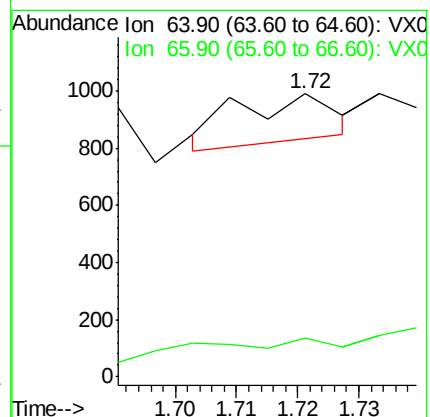
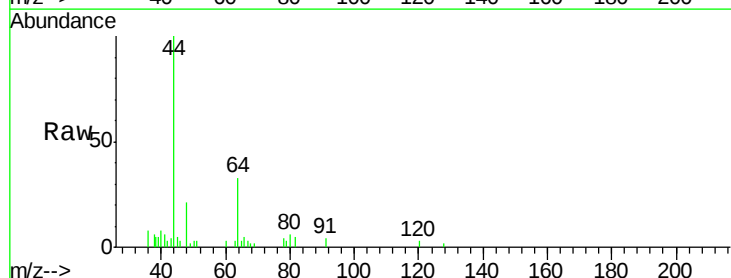
Acq: 30 Jun 2018 13:10

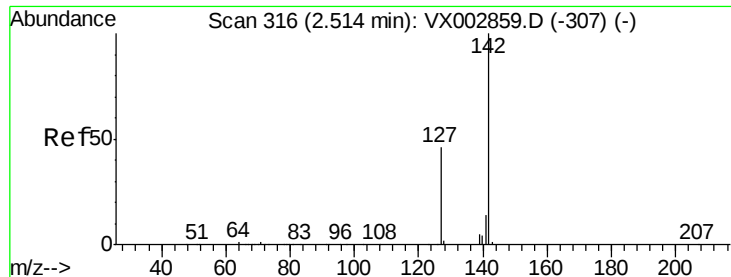
Tgt Ion: 64 Resp: 188

Ion Ratio Lower Upper

64 100

66 23.8 25.5 38.3#

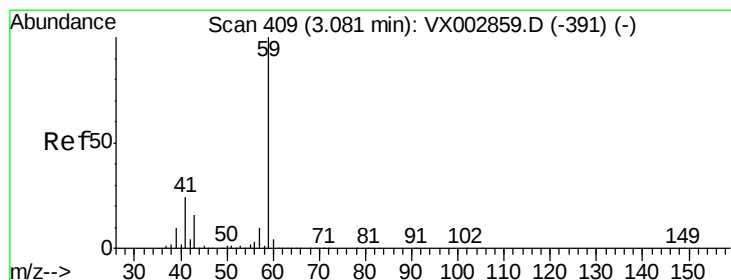
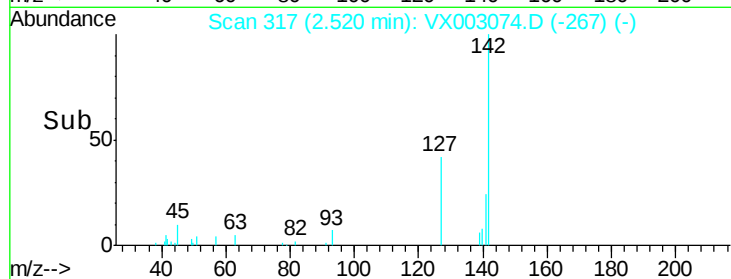
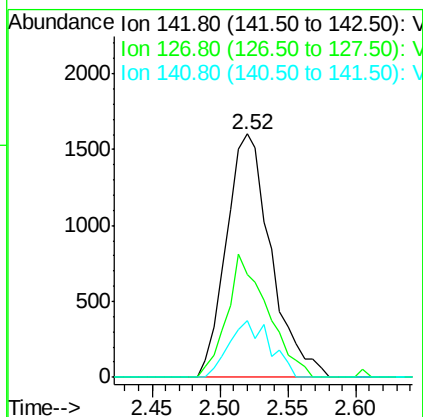
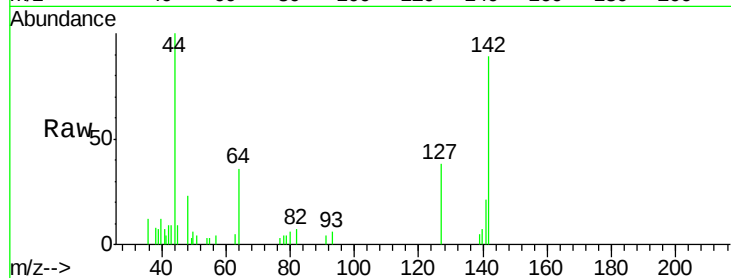




#10
Methvl Iodide
Concen: 7.19 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

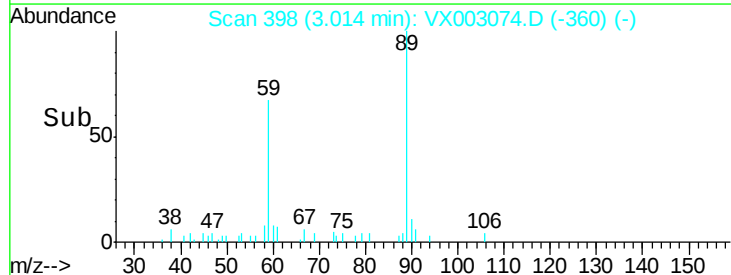
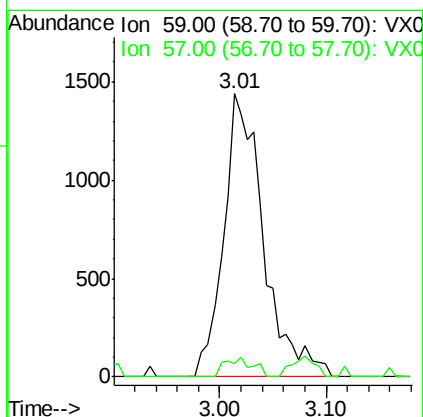
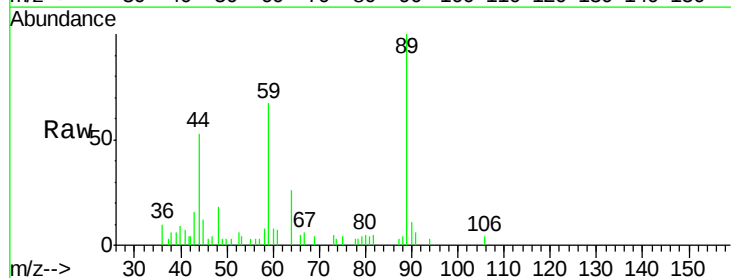
Instrument :
MSVOA_X
ClientSampleId :
WP021RW245-180620DL

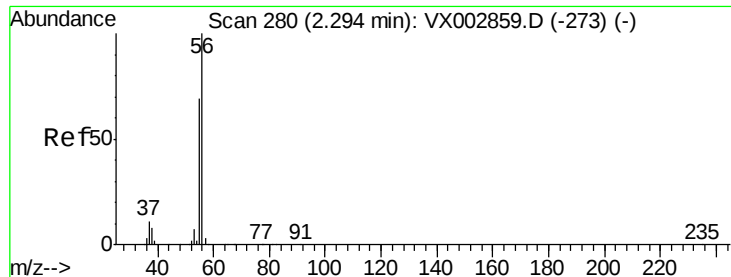
Tot Ion:142 Resp: 3664
Ion Ratio Lower Upper
142 100
127 46.2 36.6 55.0
141 21.4 11.3 16.9#



#11
Tert butyl alcohol
Concen: 4.57 ug/l
RT: 3.01 min Scan# 398
Delta R.T. -0.07 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

Tgt Ion: 59 Resp: 3754
Ion Ratio Lower Upper
59 100
57 4.9 8.2 12.2#





#13

Acrolein

Concen: 4.70 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

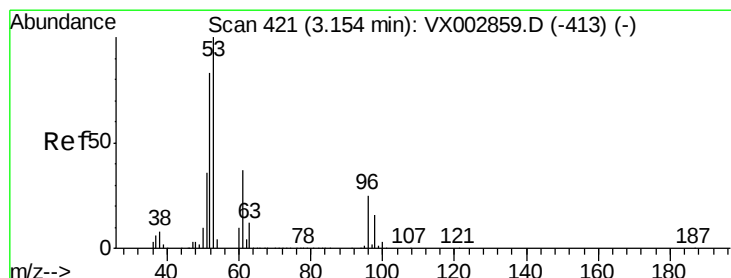
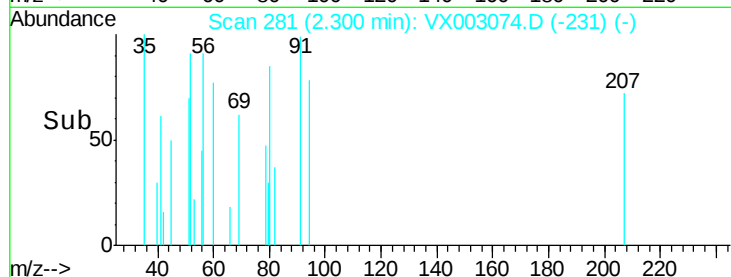
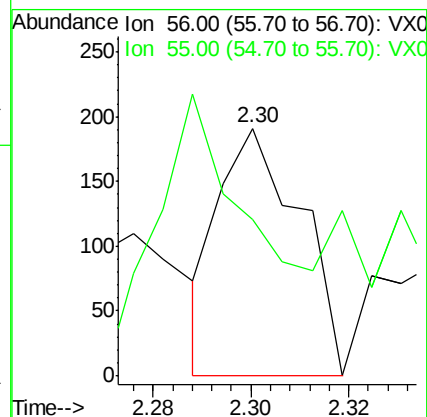
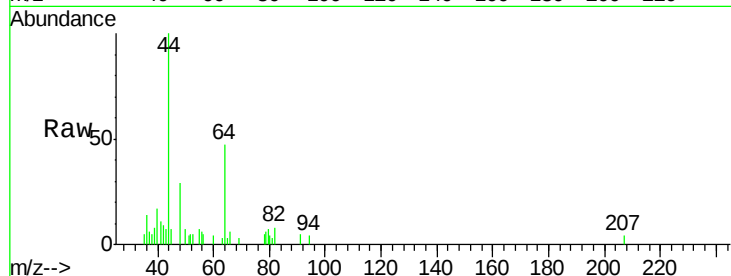
WP021RW245-180620DL

Tot Ion: 56 Resp: 219

Ion Ratio Lower Upper

56 100

55 142.9 57.0 85.4#



#15

Acrylonitrile

Concen: 0.38 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

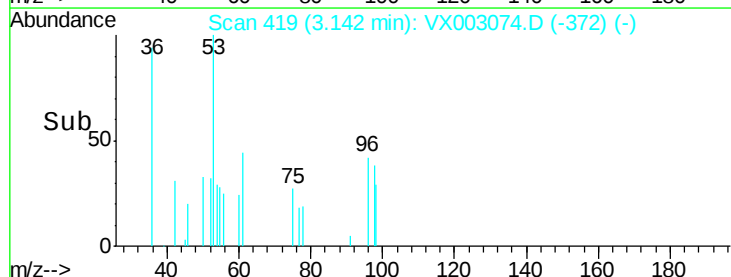
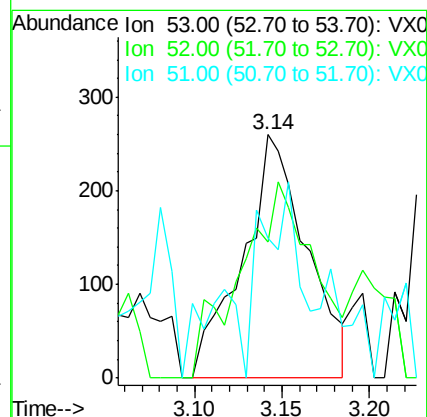
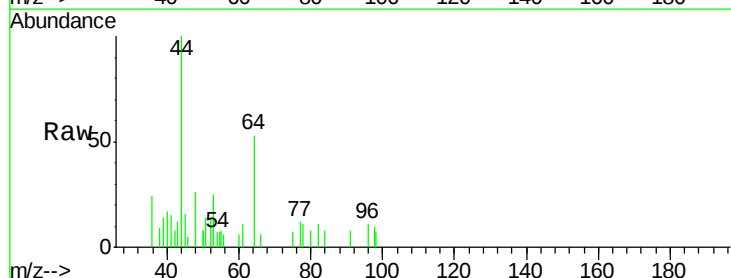
Tgt Ion: 53 Resp: 663

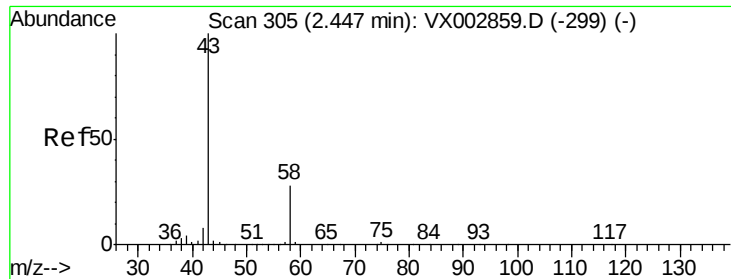
Ion Ratio Lower Upper

53 100

52 92.8 66.7 100.1

51 46.6 29.9 44.9#





#16

Acetone

Concen: 0.85 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

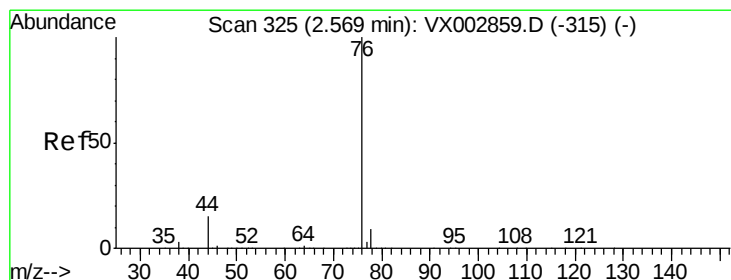
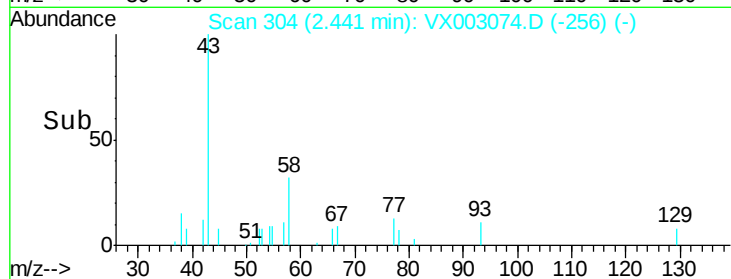
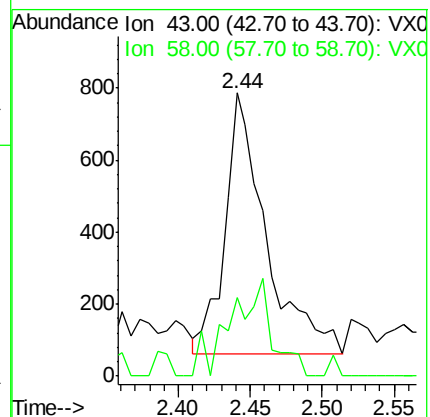
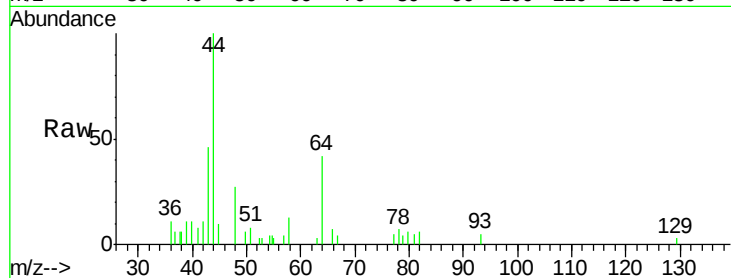
WP021RW245-180620DL

Tot Ion: 43 Resp: 1453

Ion Ratio Lower Upper

43 100

58 30.2 22.1 33.1



#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX003074.D

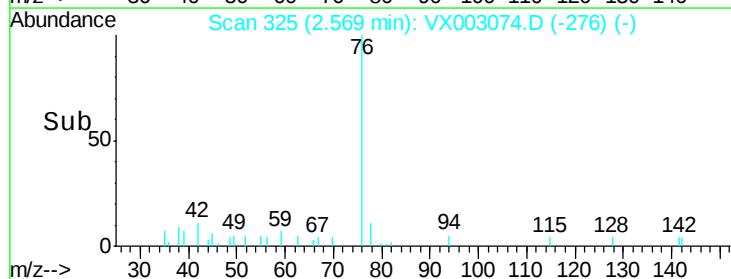
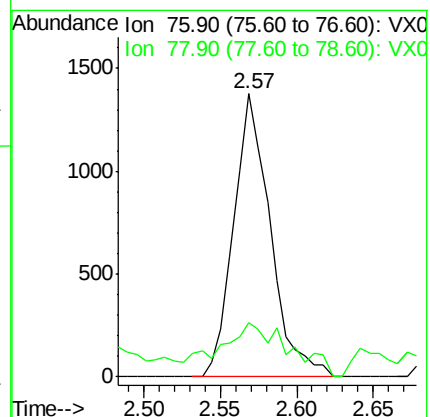
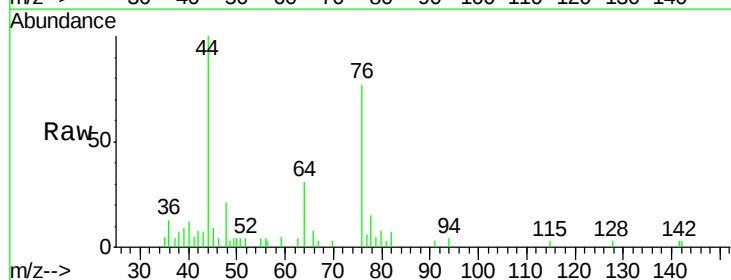
Acq: 30 Jun 2018 13:10

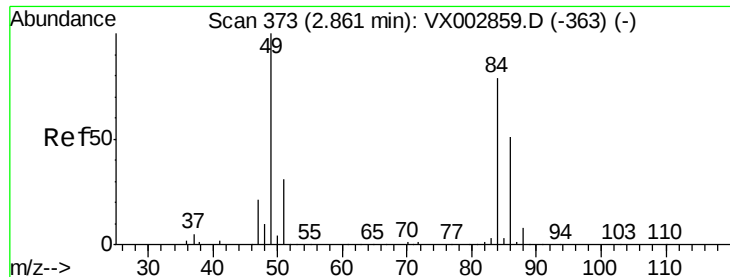
Tgt Ion: 76 Resp: 2292

Ion Ratio Lower Upper

76 100

78 19.4 6.9 10.3#

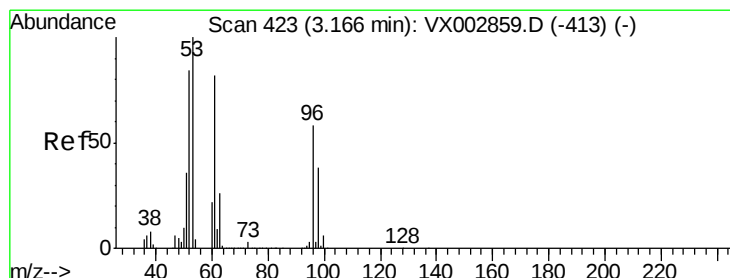
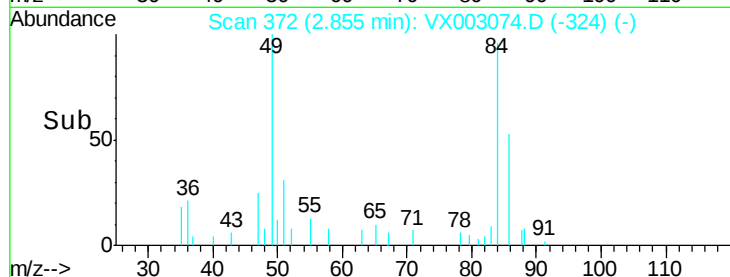
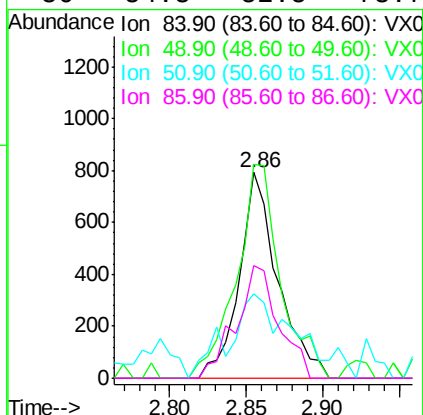
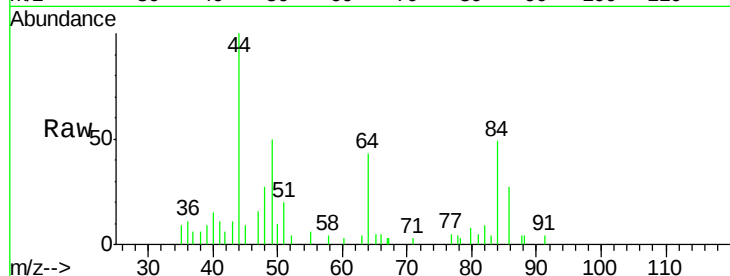




#20
Methvlene Chloride
Concen: 0.42 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

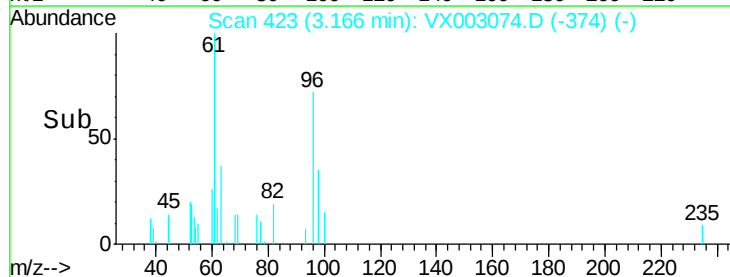
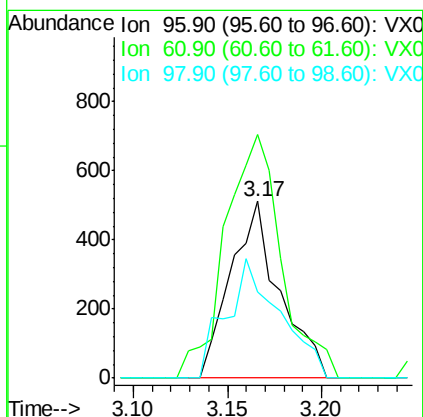
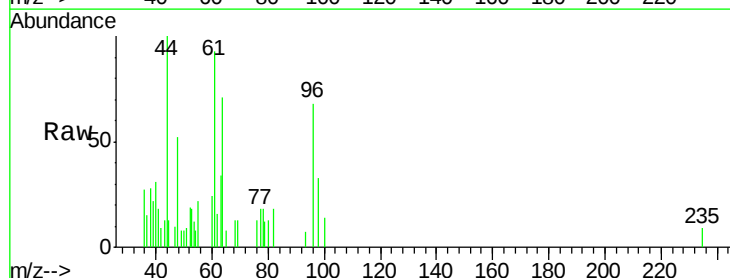
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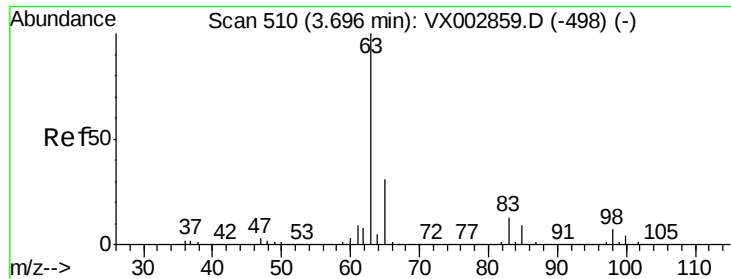
Tot Ion: 84 Resp: 1390
Ion Ratio Lower Upper
84 100
49 103.9 107.8 161.6#
51 41.0 32.8 49.2
86 54.8 52.5 78.7



#21
trans-1,2-Dichloroethene
Concen: 0.29 ug/l
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

Tgt Ion: 96 Resp: 920
Ion Ratio Lower Upper
96 100
61 138.0 117.0 175.4
98 48.7 52.4 78.6#





#24

1,1-Dichloroethane

Concen: 0.58 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620DL

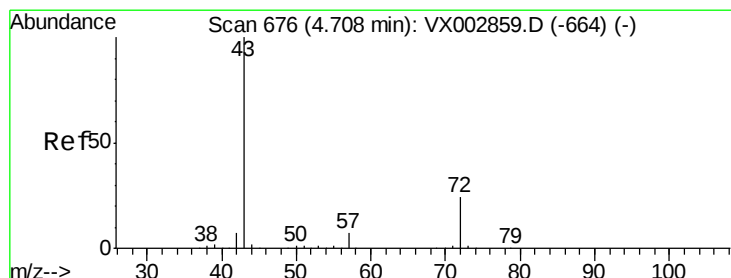
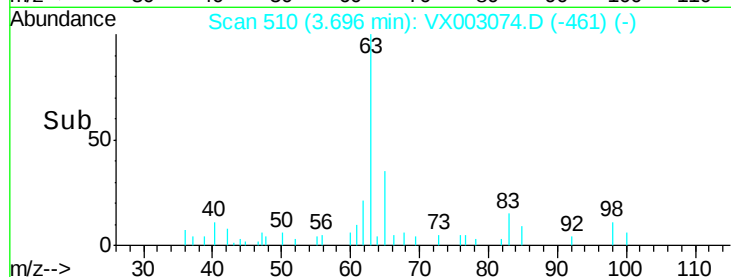
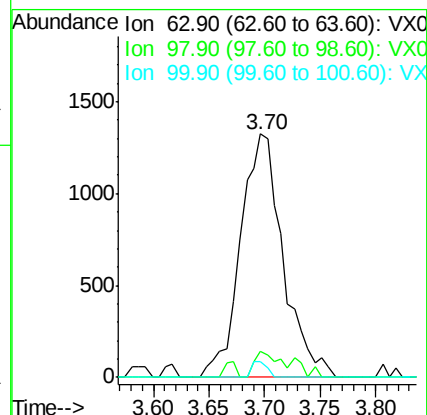
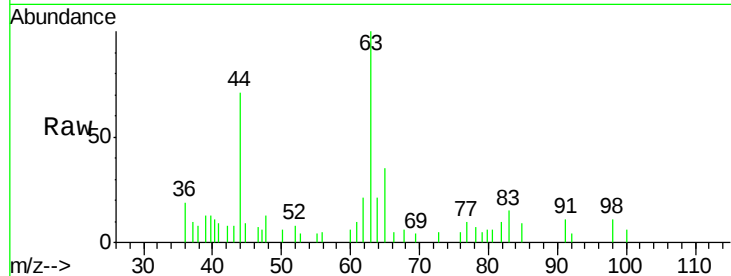
Tot Ion: 63 Resp: 3506

Ion Ratio Lower Upper

63 100

98 10.8 3.4 10.2#

100 6.4 2.0 6.0#



#25

2-Butanone

Concen: 0.37 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.02 min

Lab File: VX003074.D

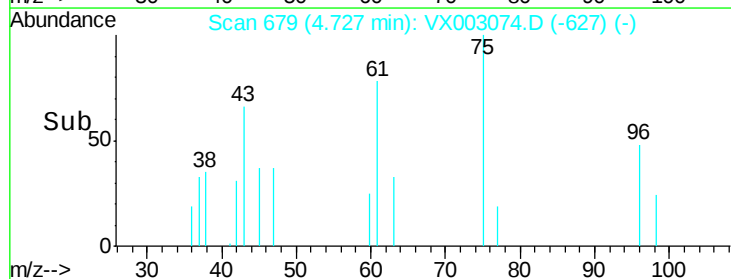
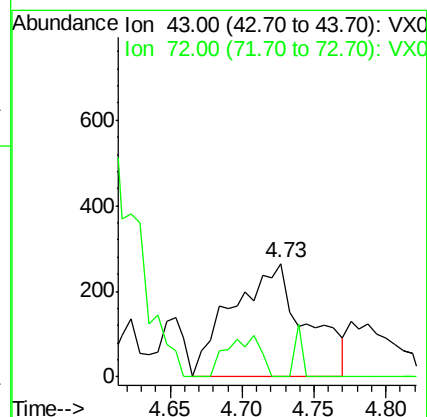
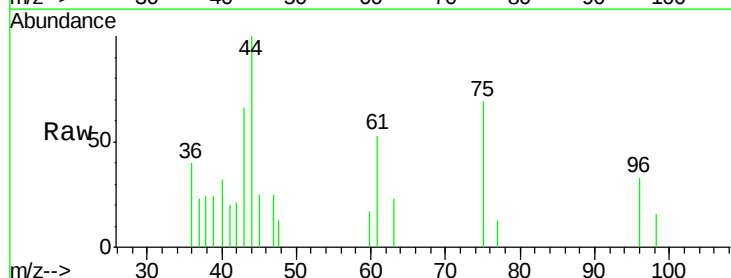
Acq: 30 Jun 2018 13:10

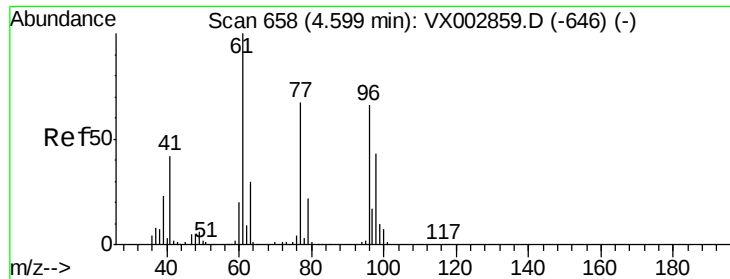
Tgt Ion: 43 Resp: 944

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



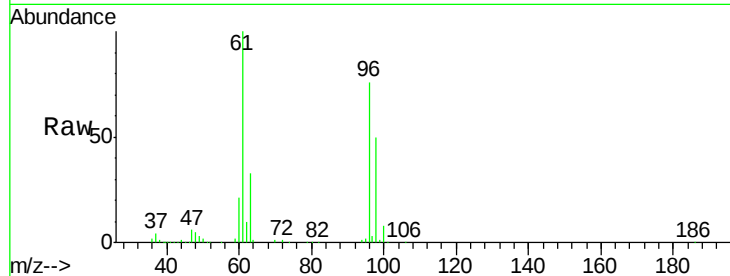


#27

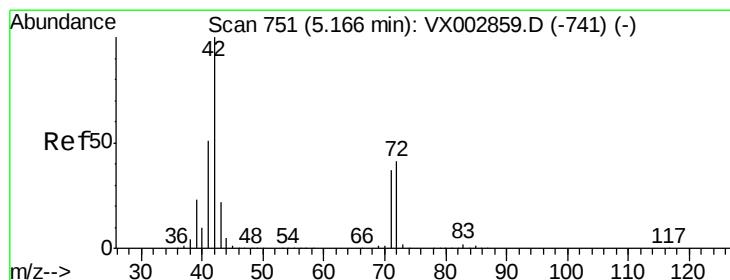
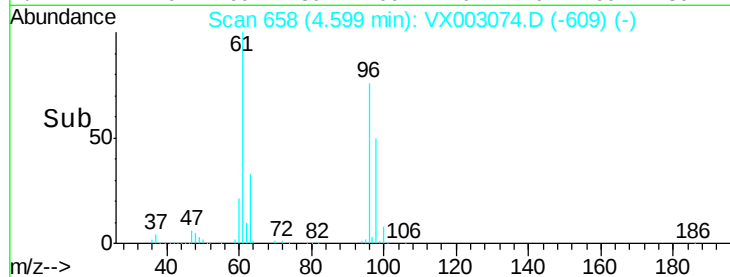
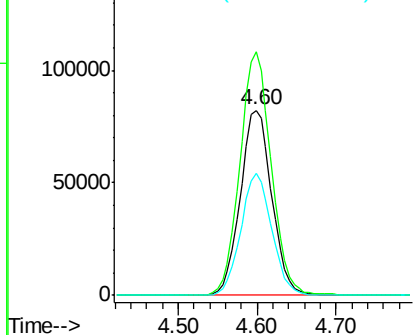
cis-1,2-Dichloroethene
 Concen: 63.55 ug/l
 RT: 4.60 min Scan# 658
 Delta R.T. 0.00 min
 Lab File: VX003074.D
 Acq: 30 Jun 2018 13:10

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW245-180620DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.1	0.0	330.2
98	64.9	0.0	130.2



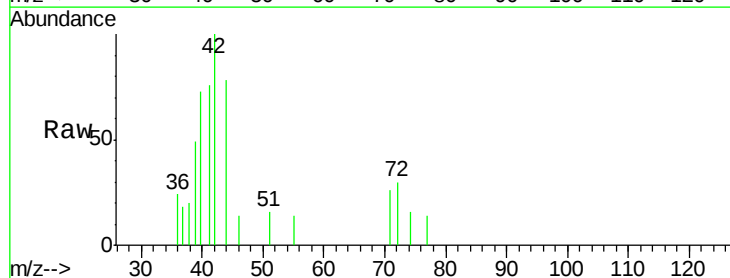
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



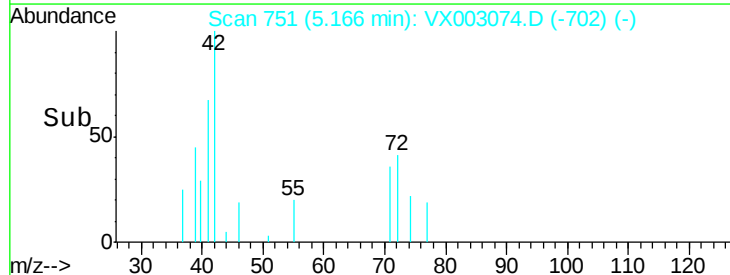
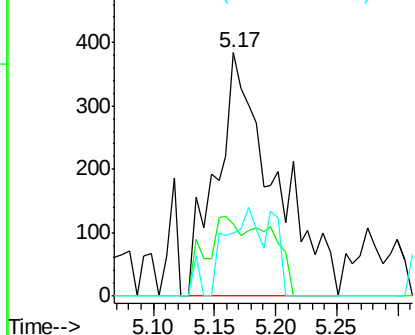
#29

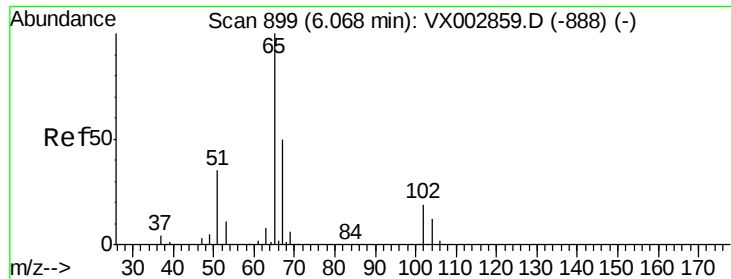
Tetrahydrofuran
 Concen: 0.77 ug/l
 RT: 5.17 min Scan# 751
 Delta R.T. 0.00 min
 Lab File: VX003074.D
 Acq: 30 Jun 2018 13:10

Tgt Ion	Ratio	Lower	Upper
42	100		
72	19.4	32.0	48.0#
71	21.0	30.1	45.1#



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: 46.67 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

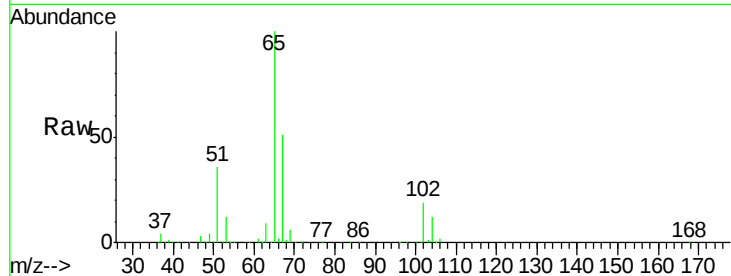
WP021RW245-180620DL

Tot Ion: 65 Resp: 192373

Ion Ratio Lower Upper

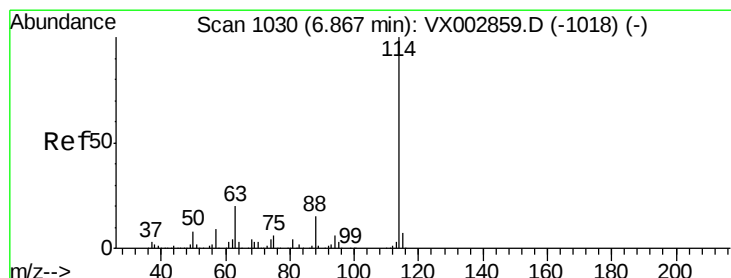
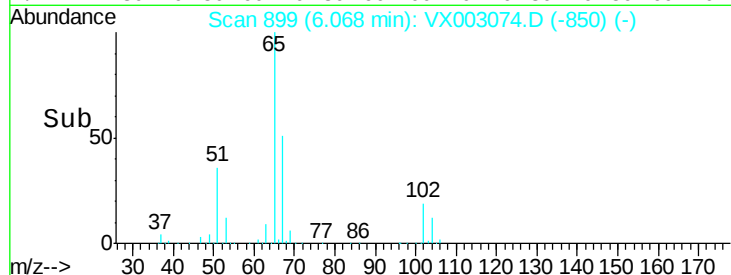
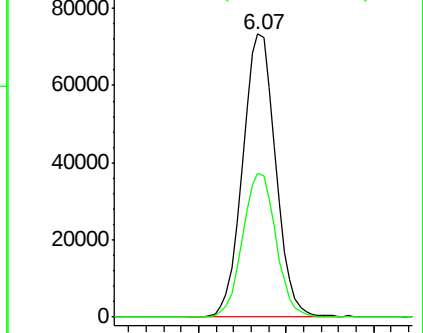
65 100

67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

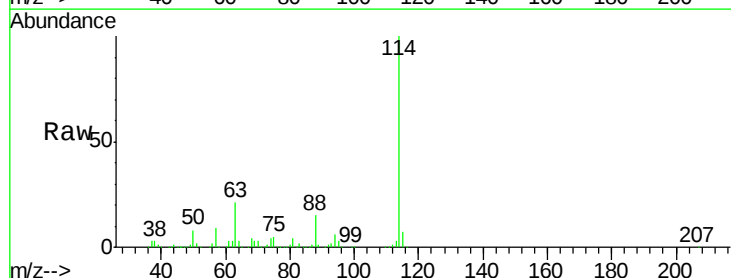
Tgt Ion: 114 Resp: 413991

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

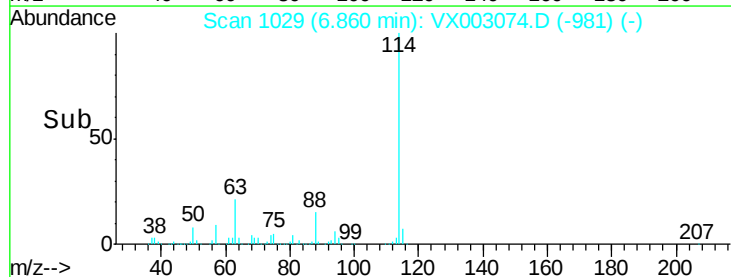
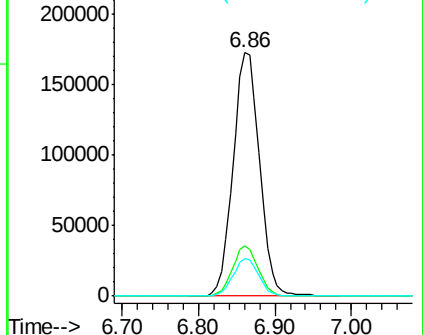
88 15.3 0.0 30.0

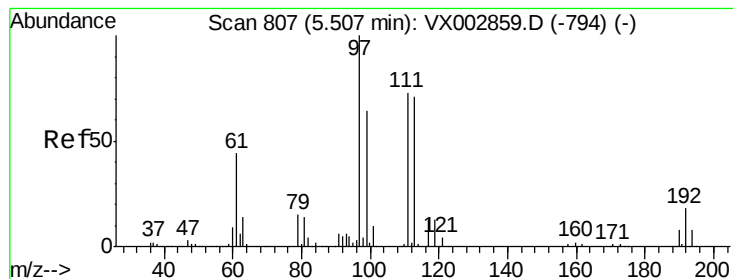


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.13 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620DL

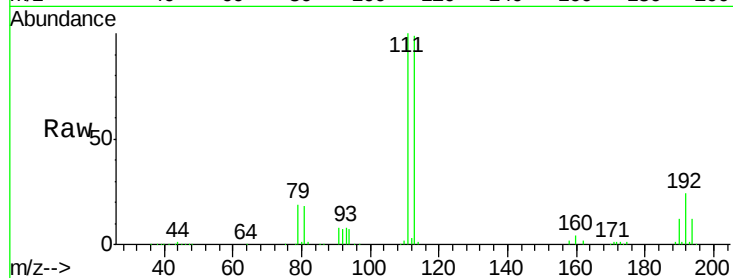
Tot Ion:113 Resp: 157779

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

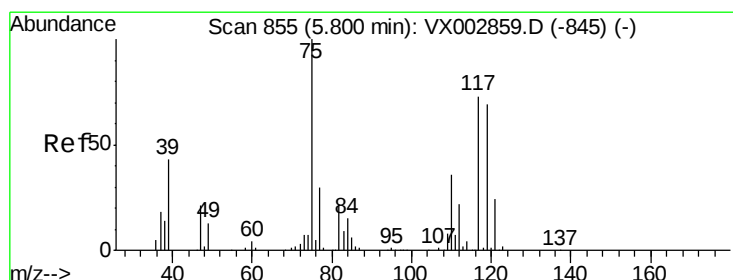
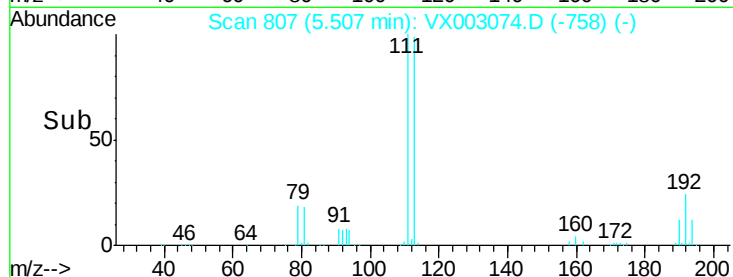
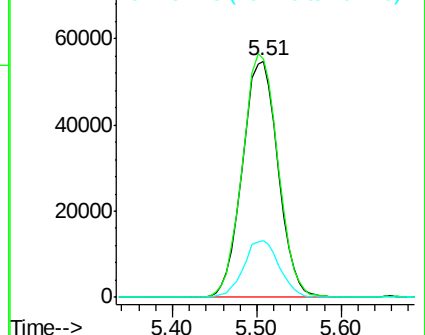
192 24.0 19.1 28.7



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: 4.29 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

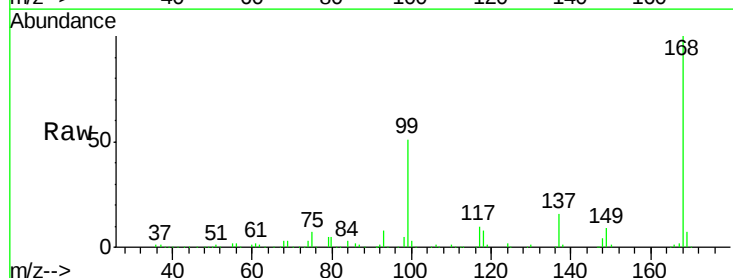
Tgt Ion: 75 Resp: 19474

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.4#

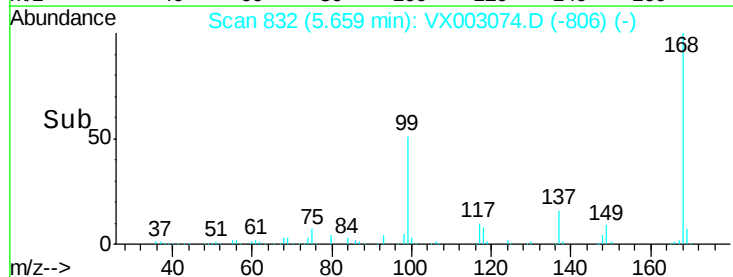
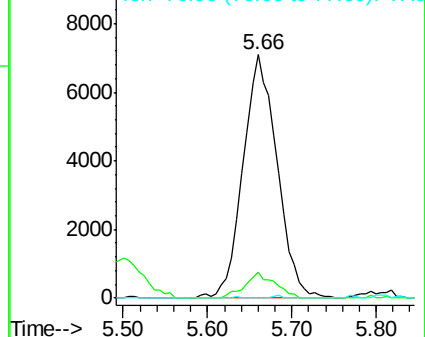
77 0.0 24.3 36.5#

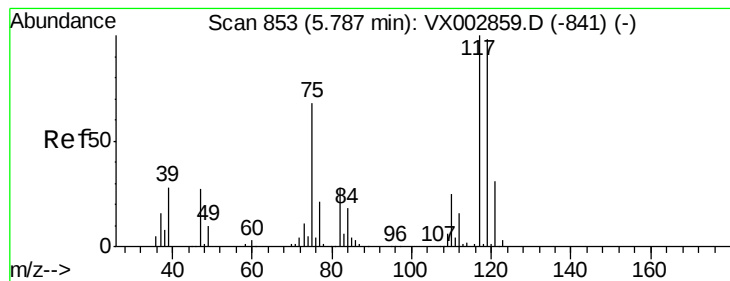


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.37 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.13 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620DL

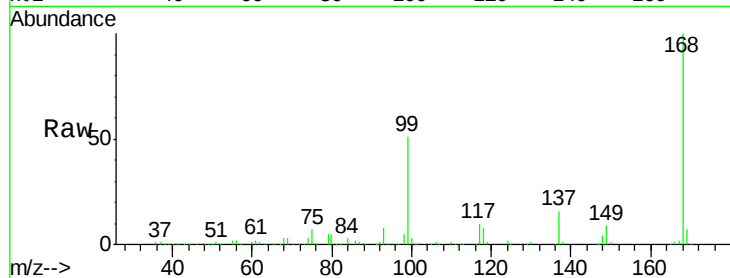
Tot Ion:117 Resp: 26745

Ion Ratio Lower Upper

117 100

119 6.8 77.4 116.0#

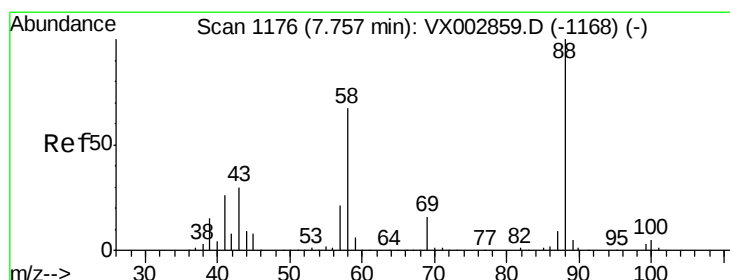
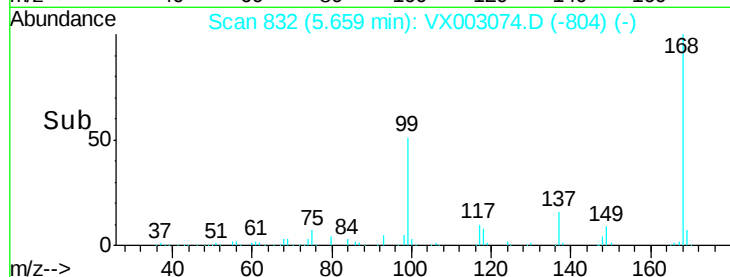
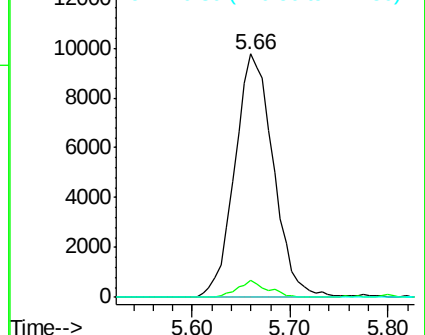
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.83 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

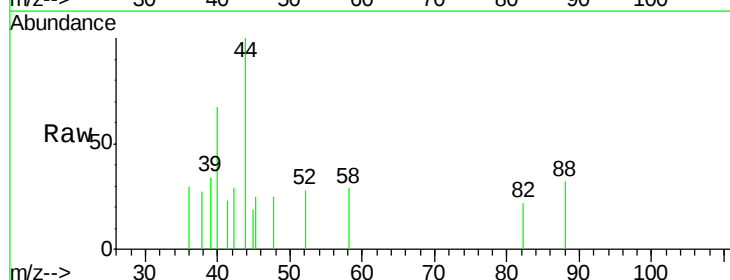
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

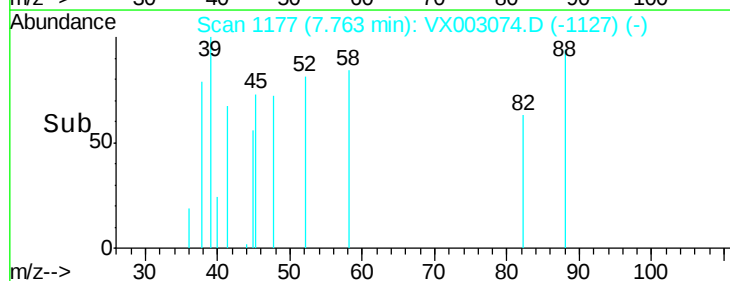
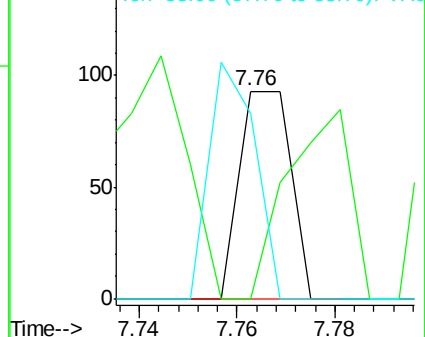
58 101.5 57.1 85.7#

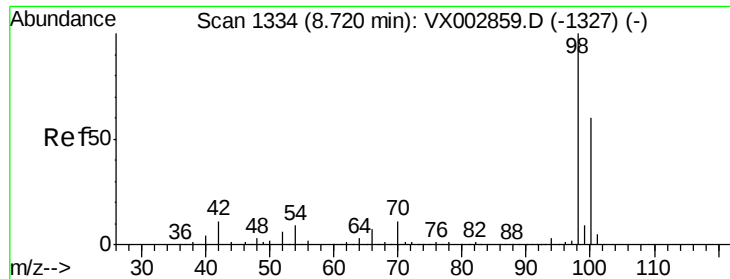


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

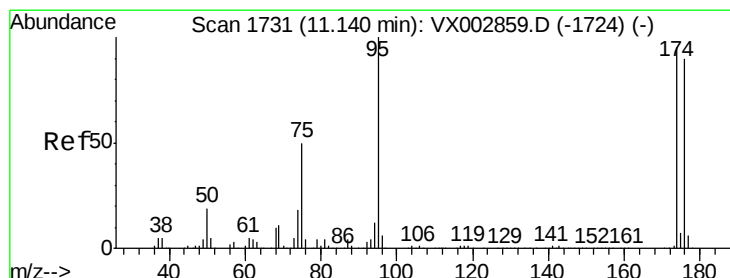
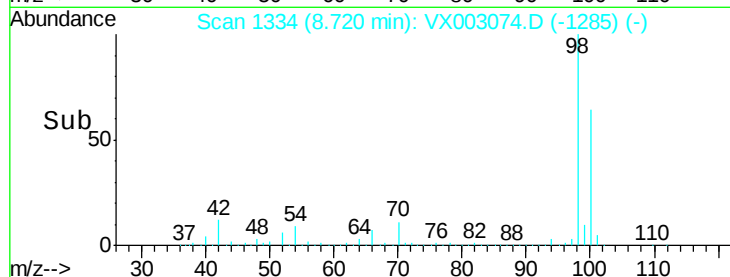
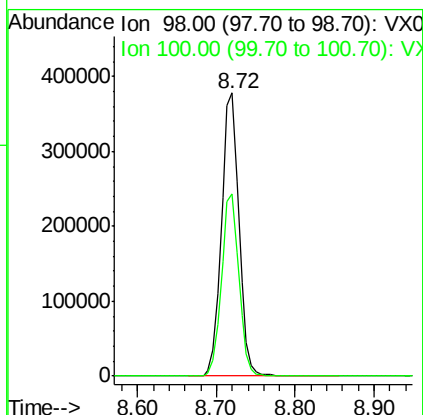
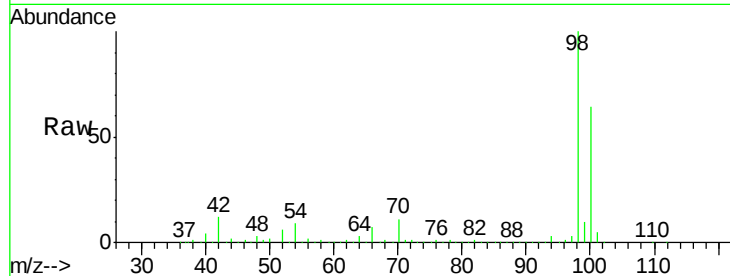




#50
Toluene-d8
Concen: 48.72 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

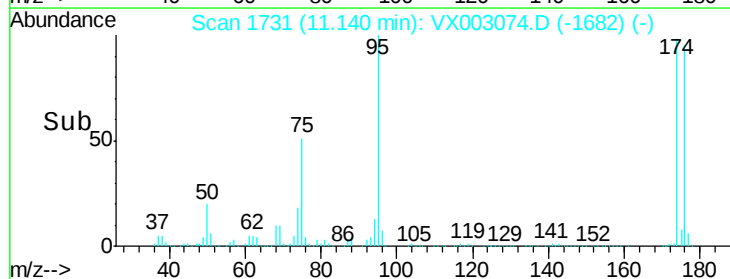
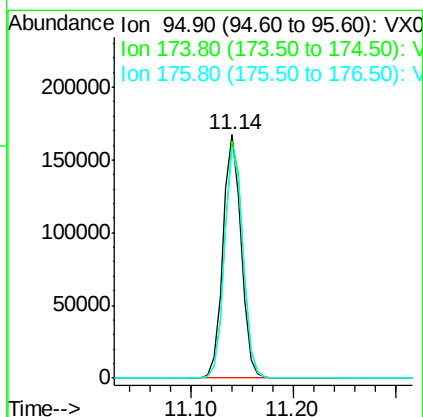
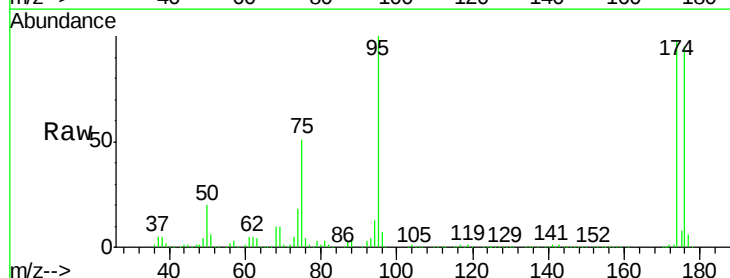
Instrument :
MSVOA_X
ClientSampleId :
WP021RW245-180620DL

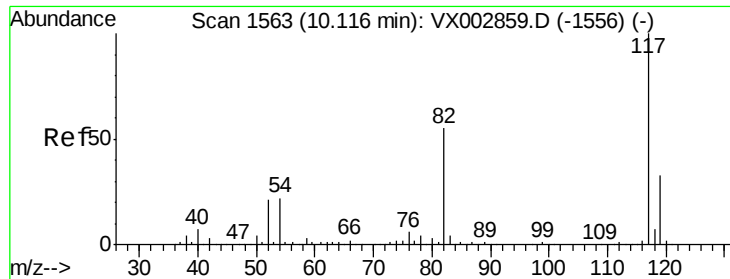
Tot Ion: 98 Resp: 583332
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 45.07 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

Tgt Ion: 95 Resp: 208078
Ion Ratio Lower Upper
95 100
174 97.6 0.0 187.4
176 95.4 0.0 181.0

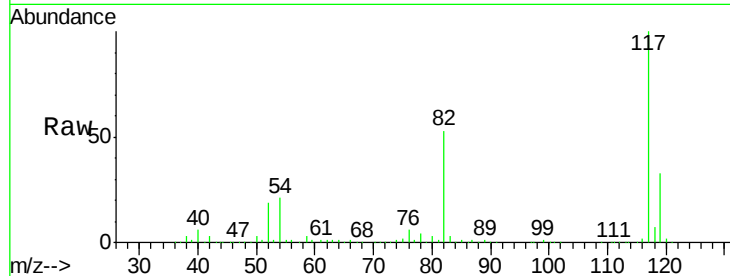




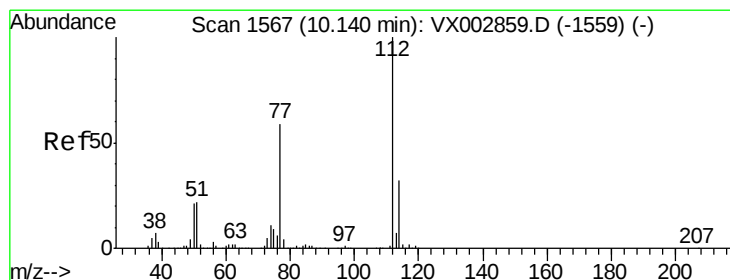
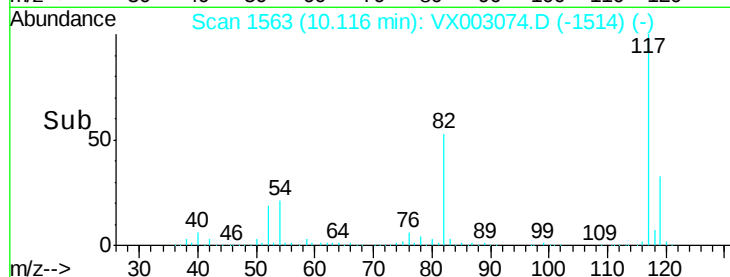
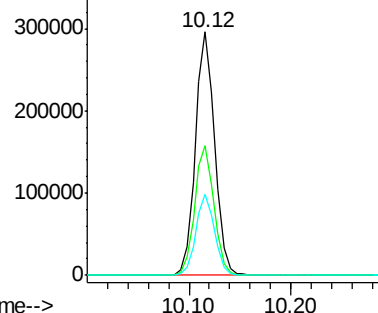
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

Instrument :
MSVOA_X
ClientSampleId :
WP021RW245-180620DL

Tot Ion:117 Resp: 388919
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 33.1 25.8 38.6

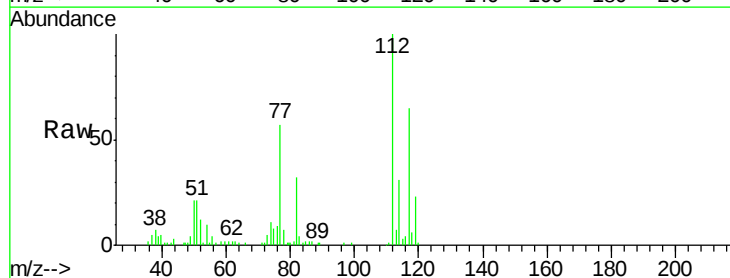


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

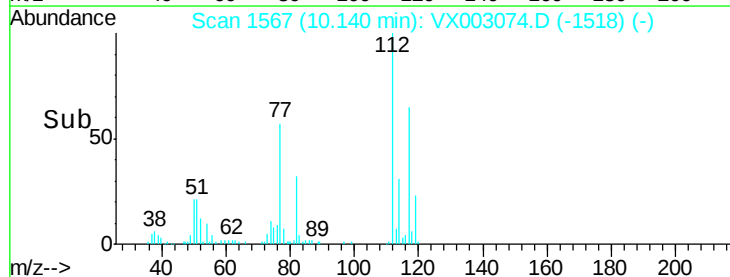
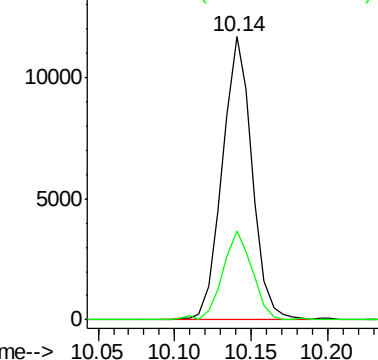


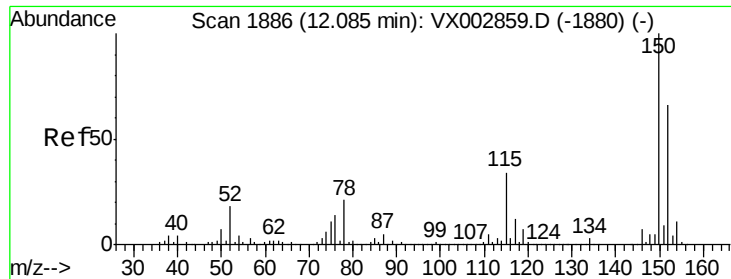
#65
Chlorobenzene
Concen: 1.60 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX003074.D
Acq: 30 Jun 2018 13:10

Tgt Ion:112 Resp: 15789
Ion Ratio Lower Upper
112 100
114 31.5 25.3 37.9



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620DL

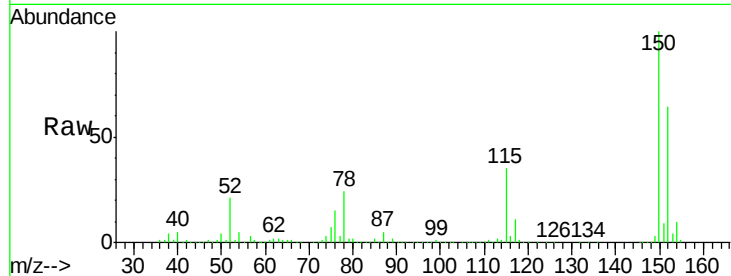
Tot Ion:152 Resp: 222812

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

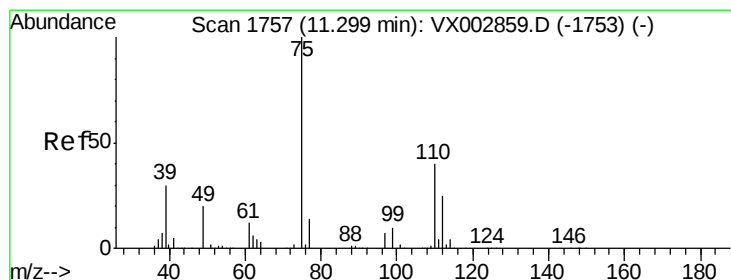
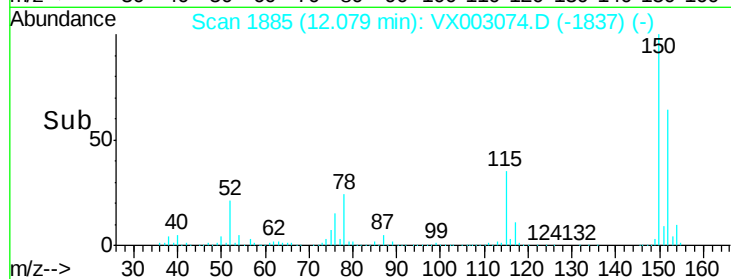
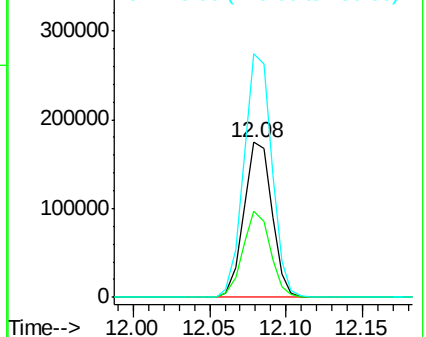
150 156.9 0.0 347.2



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: 26.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003074.D

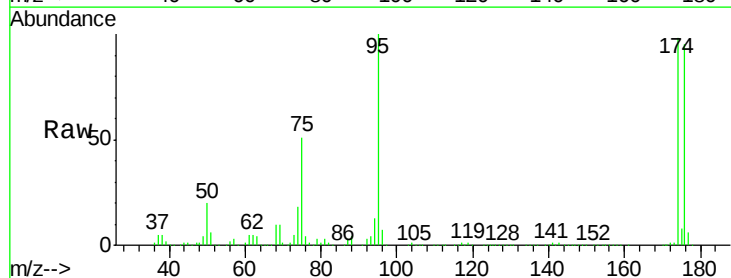
Acq: 30 Jun 2018 13:10

Tgt Ion: 75 Resp: 107501

Ion Ratio Lower Upper

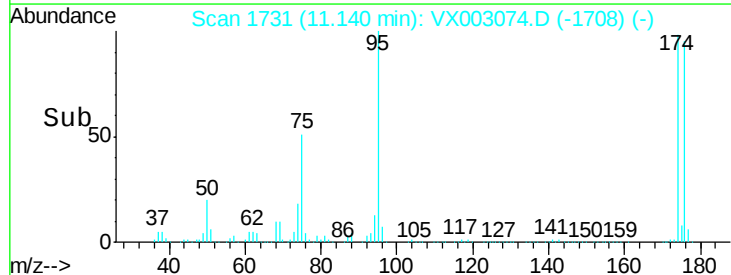
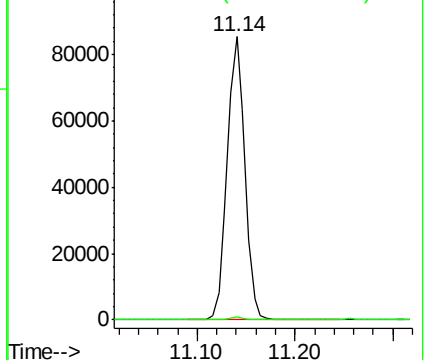
75 100

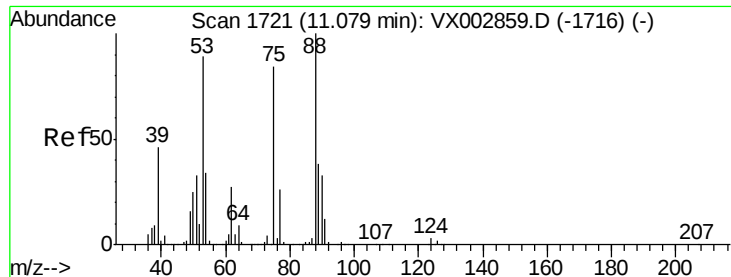
77 1.2 22.8 68.3#



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: 75.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

Instrument :

MSVOA_X

ClientSampleId :

WP021RW245-180620DL

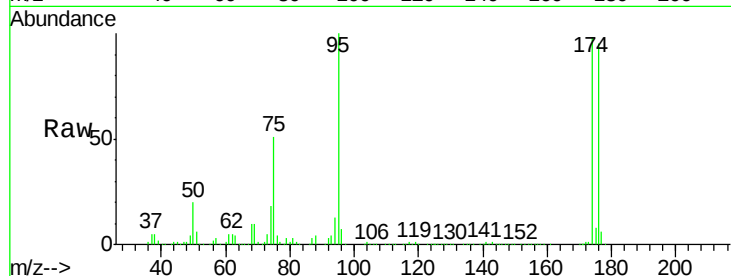
Tot Ion: 75 Resp: 107501

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

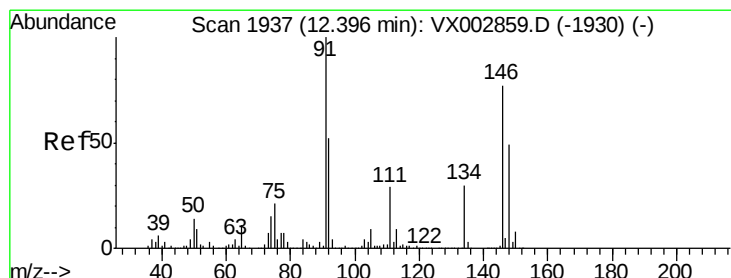
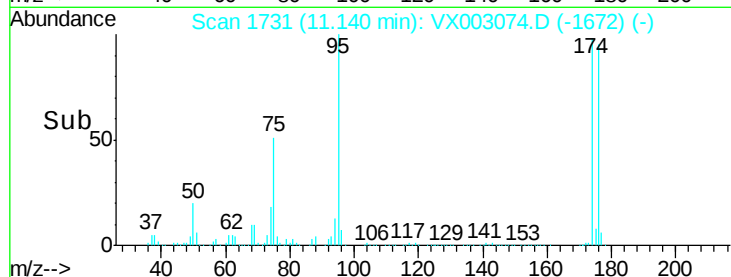
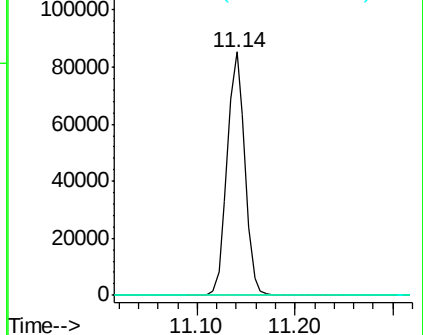
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#91

1,2-Dichlorobenzene

Concen: 0.24 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX003074.D

Acq: 30 Jun 2018 13:10

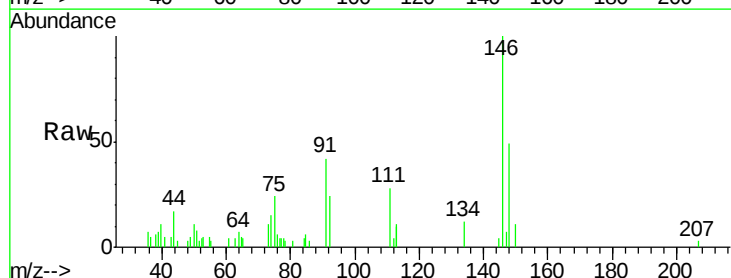
Tgt Ion:146 Resp: 1878

Ion Ratio Lower Upper

146 100

111 32.6 19.4 58.1

148 65.4 31.7 95.1



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

