

Data Path : W:\HPCHEM1\MSVOA X\DATA\WX051818\
 Data File : VX001824.D
 Acq On : 18 May 2018 14:27
 Operator : JC/MD
 Sample : J2853-06DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 02:22:30 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	314679	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	232006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	100329	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	135168	42.06	ug/l	0.00
Spiked Amount			Recovery	=	84.12%	
35) Dibromofluoromethane	5.51	113	119012	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	
50) Toluene-d8	8.72	98	428802	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	
62) 4-Bromofluorobenzene	11.14	95	106567	31.12	ug/l	0.00
Spiked Amount			Recovery	=	62.24%	

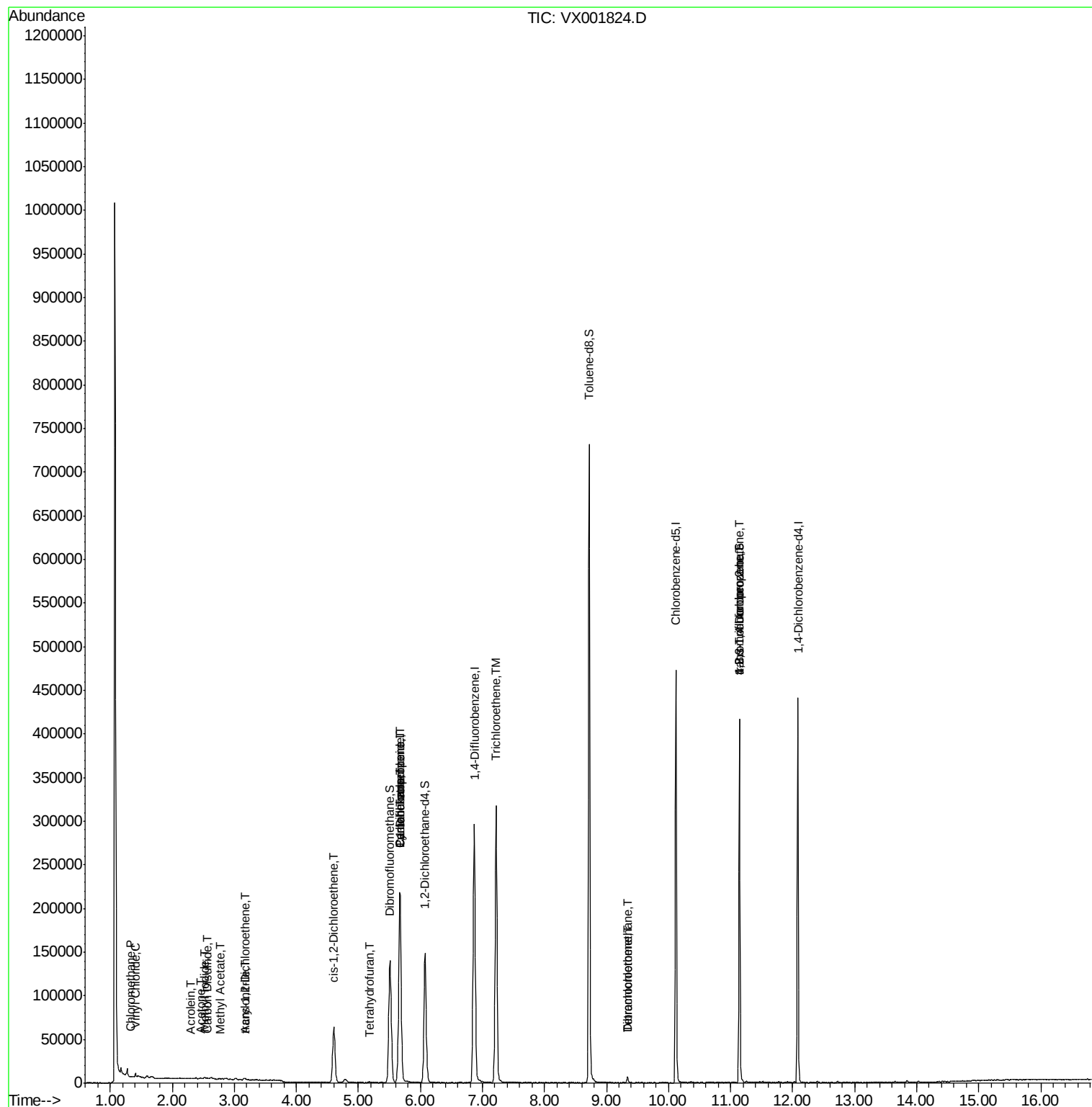
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	526	0.20	ug/l	# 77
4) Vinyl Chloride	1.40	62	2810	1.00	ug/l	97
5) Bromomethane	1.66	94	1355	Below Cal	#	69
10) Methyl Iodide	2.53	142	2570	1.14	ug/l	95
13) Acrolein	2.29	56	326	0.81	ug/l	# 38
15) Acrylonitrile	3.16	53	648	0.45	ug/l	# 52
16) Acetone	2.45	43	778	0.62	ug/l	# 45
17) Carbon Disulfide	2.57	76	1330	0.22	ug/l	# 82
18) Methyl Acetate	2.78	43	833	0.23	ug/l	# 80
21) trans-1,2-Dichloroethene	3.16	96	560	0.21	ug/l	93
27) cis-1,2-Dichloroethene	4.60	96	42997	14.47	ug/l	91
29) Tetrahydrofuran	5.18	42	896	0.71	ug/l	# 60
31) Cyclohexane	5.67	56	3687	0.91	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	13925	3.84	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	19443	5.12	ug/l	# 16
44) Trichloroethene	7.22	130	135198	40.81	ug/l	99
60) Dibromochloromethane	9.34	129	1433	0.53	ug/l	# 11
64) Tetrachloroethene	9.34	164	1624	0.54	ug/l	# 88
76) 1,2,3-Trichloropropane	11.14	75	49465	25.93	ug/l	# 40
81) trans-1,4-Dichloro-2-buten	11.14	75	49465	75.46	ug/l	# 10

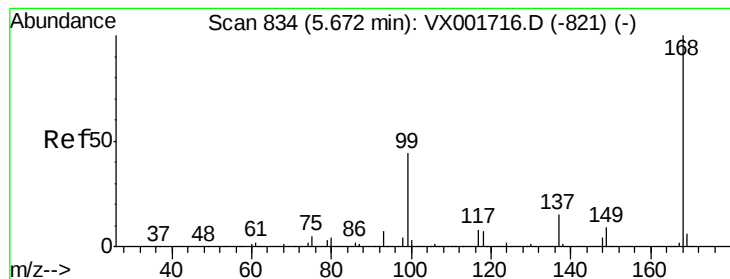
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

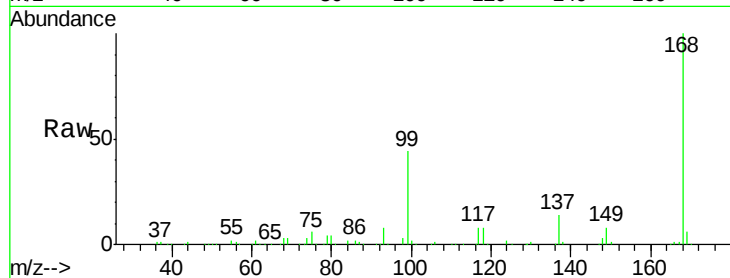
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 239758

Ion Ratio Lower Upper

168 100

99 43.6 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

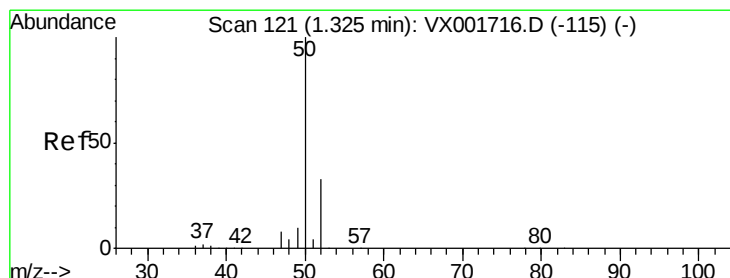
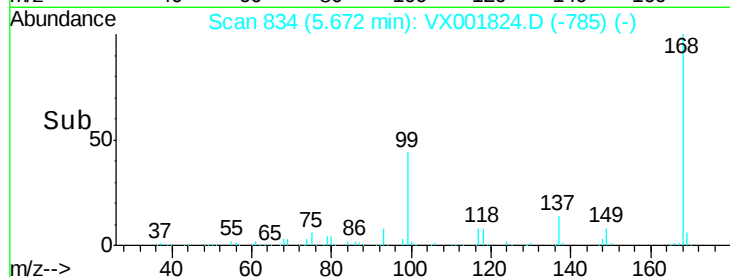
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.20 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX001824.D

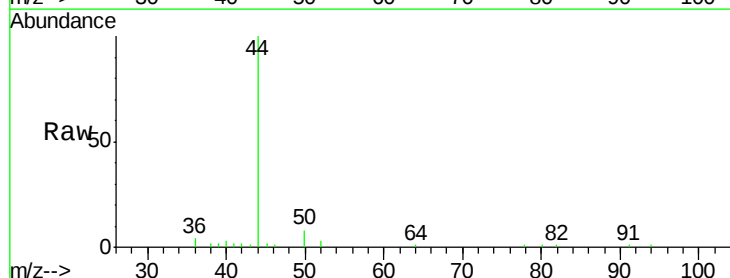
Acq: 18 May 2018 14:27

Tgt Ion: 50 Resp: 526

Ion Ratio Lower Upper

50 100

52 45.9 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

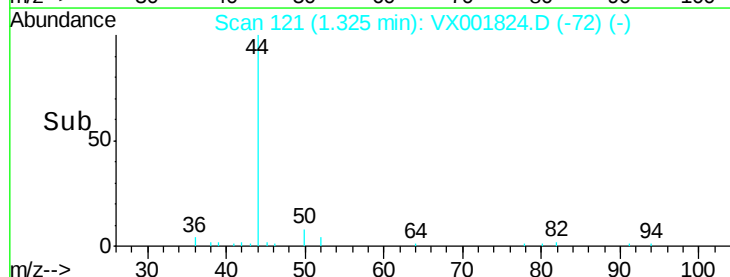
300

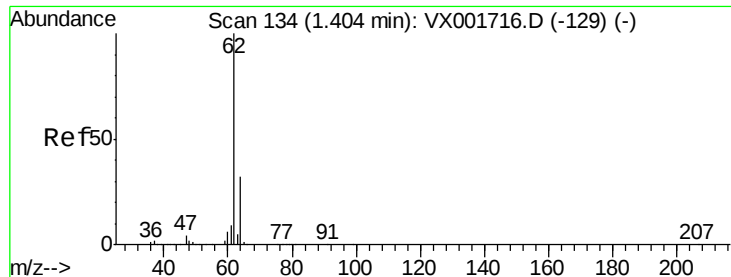
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 1.00 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

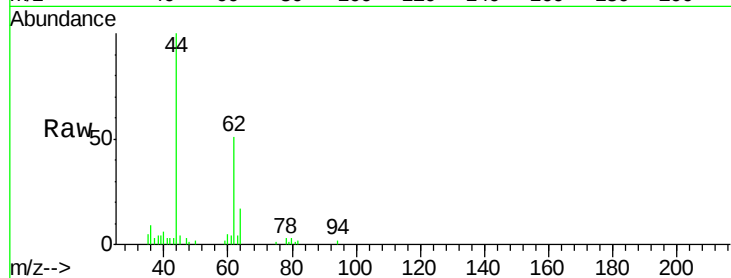
ClientSampled :

Tot Ion: 62 Resp: 2810

Ion Ratio Lower Upper

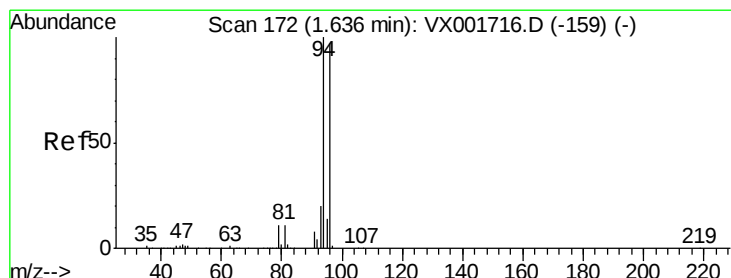
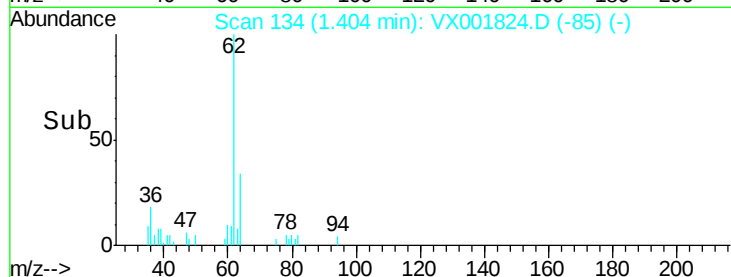
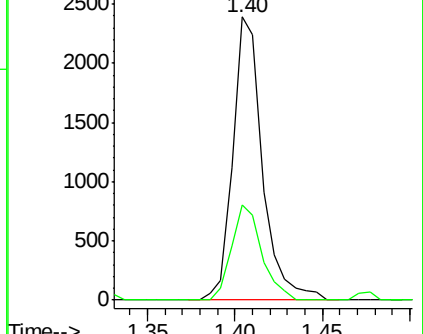
62 100

64 33.7 25.6 38.4



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: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001824.D

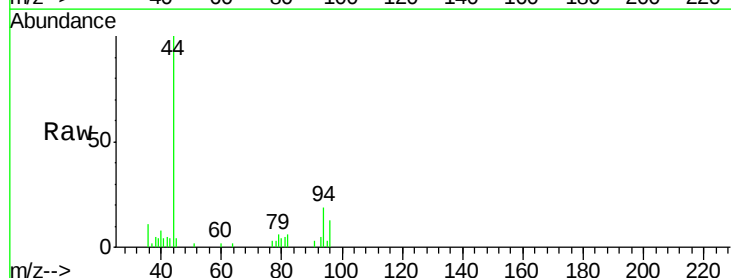
Acq: 18 May 2018 14:27

Tgt Ion: 94 Resp: 1355

Ion Ratio Lower Upper

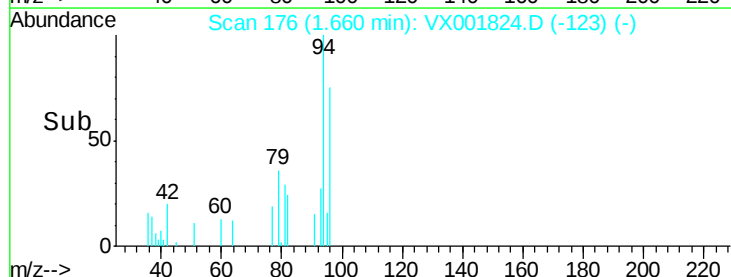
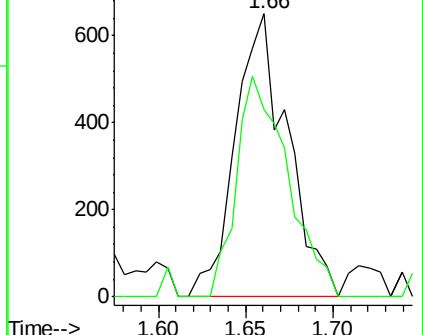
94 100

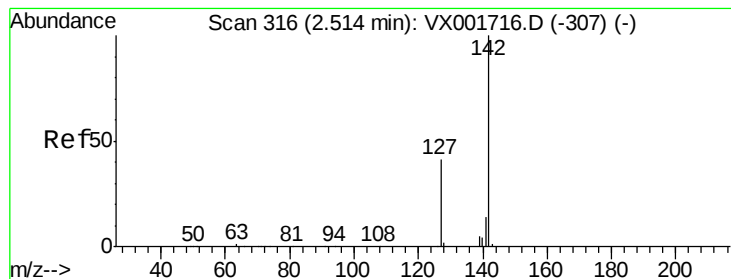
96 66.4 77.4 116.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methvl Iodide

Concen: 1.14 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :
MSVOA_X
ClientSampleId :

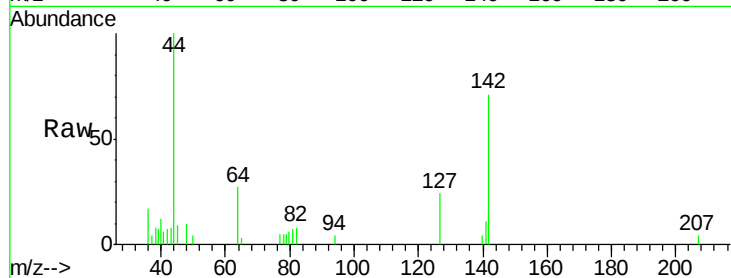
Tot Ion:142 Resp: 2570

Ion Ratio Lower Upper

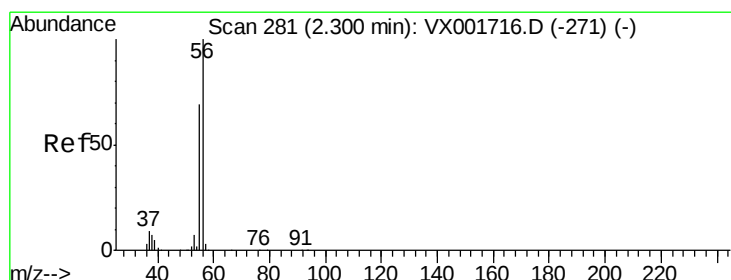
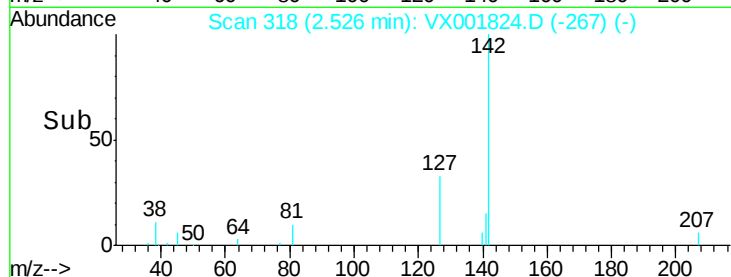
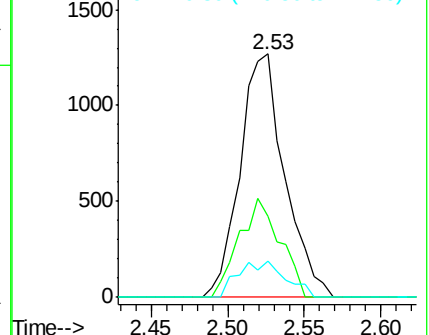
142 100

127 37.6 32.5 48.7

141 15.7 11.4 17.0



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



#13

Acrolein

Concen: 0.81 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001824.D

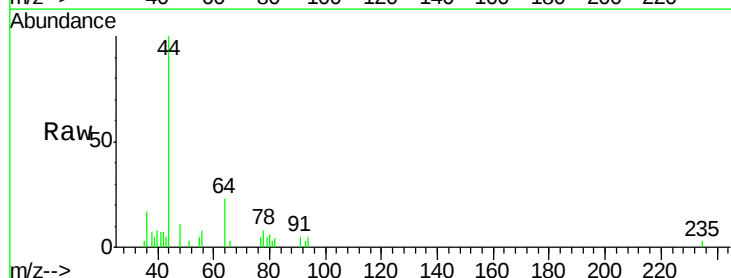
Acq: 18 May 2018 14:27

Tgt Ion: 56 Resp: 326

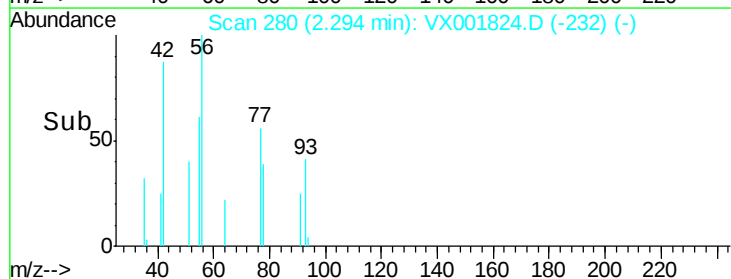
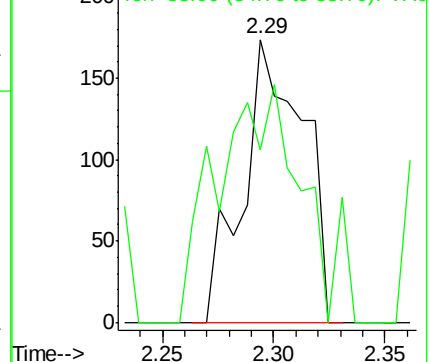
Ion Ratio Lower Upper

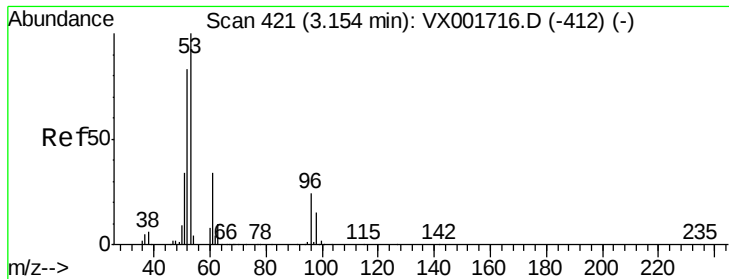
56 100

55 120.9 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.45 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

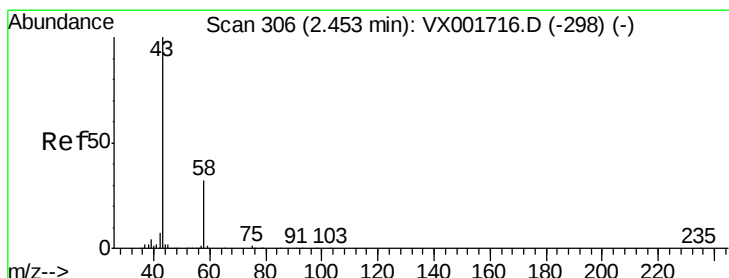
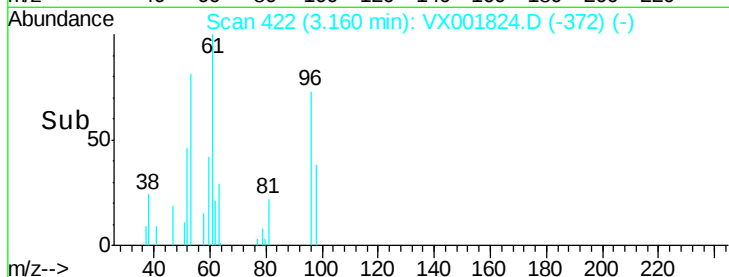
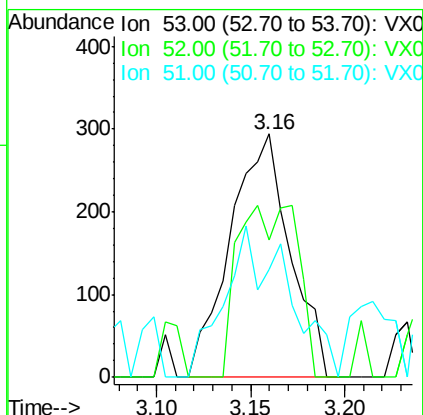
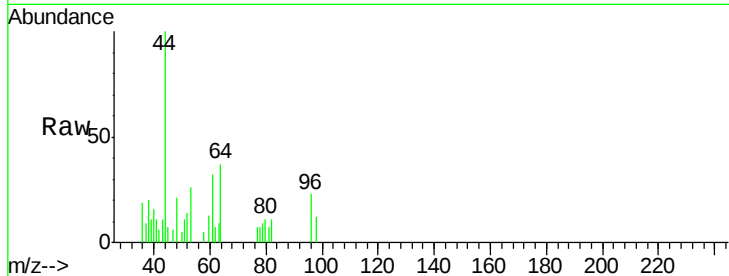
Tot Ion: 53 Resp: 648

Ion Ratio Lower Upper

53 100

52 40.9 65.6 98.4#

51 65.9 28.1 42.1#



#16

Acetone

Concen: 0.62 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001824.D

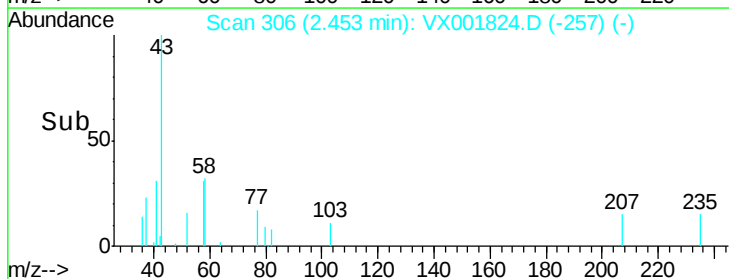
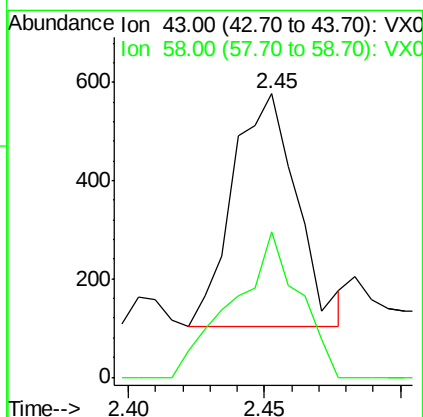
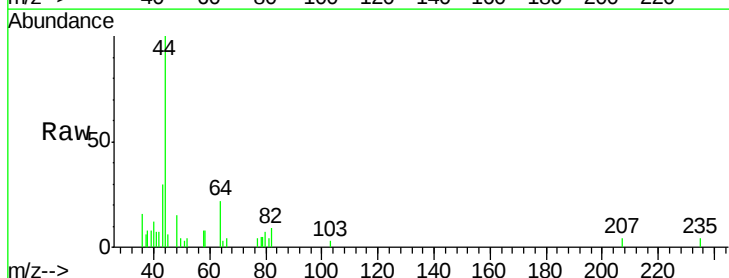
Acq: 18 May 2018 14:27

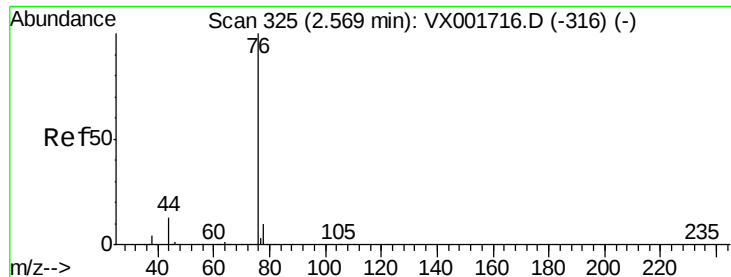
Tgt Ion: 43 Resp: 778

Ion Ratio Lower Upper

43 100

58 62.1 25.3 37.9#





#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

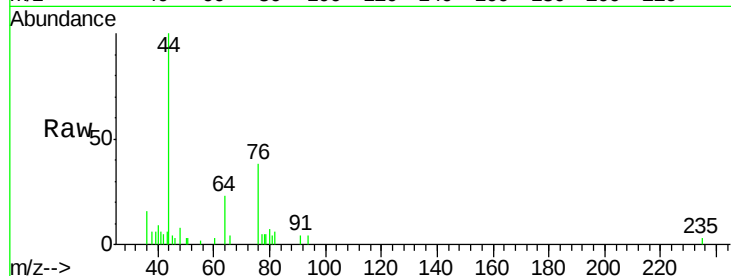
ClientSampleId :

Tot Ion: 76 Resp: 1330

Ion Ratio Lower Upper

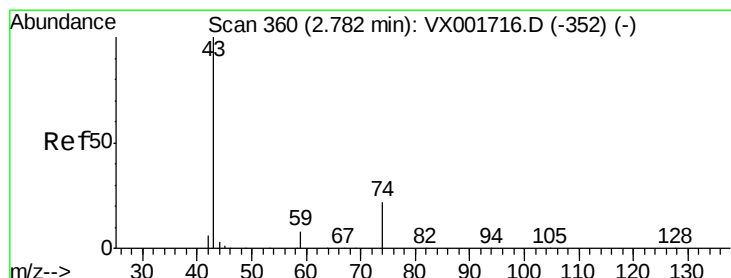
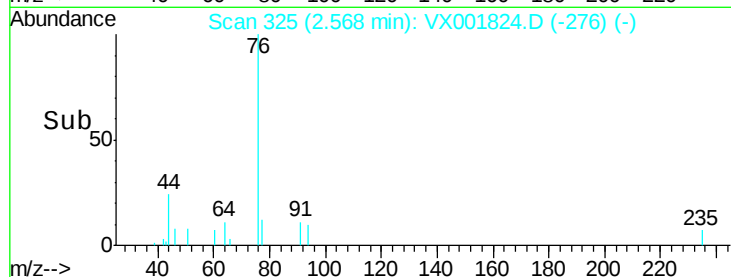
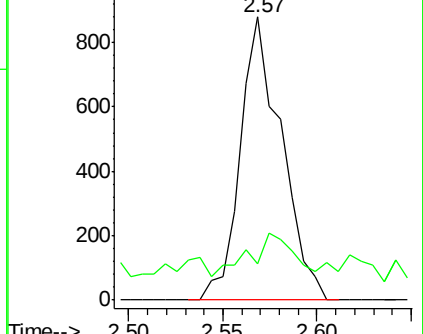
76 100

78 2.7 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.23 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX001824.D

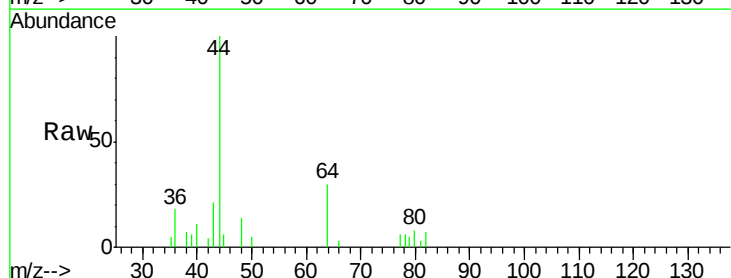
Acq: 18 May 2018 14:27

Tgt Ion: 43 Resp: 833

Ion Ratio Lower Upper

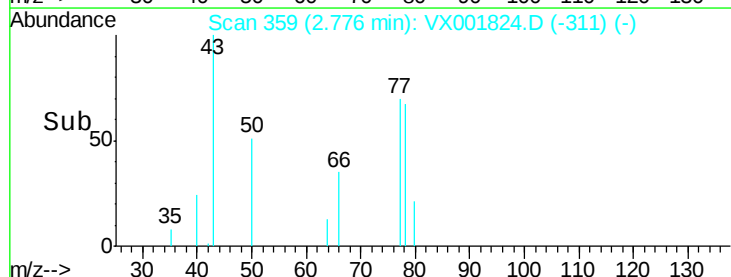
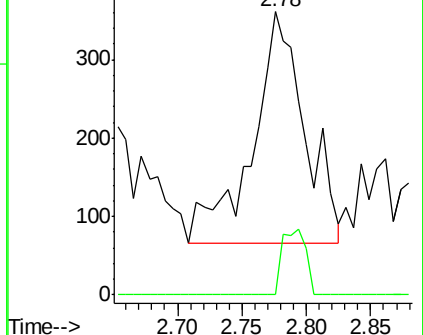
43 100

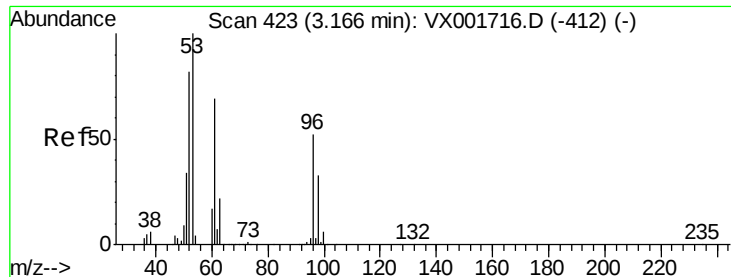
74 13.1 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.21 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

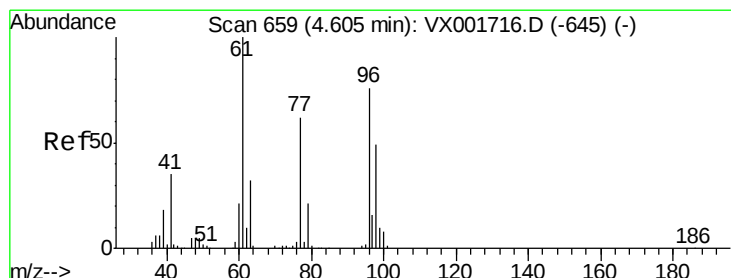
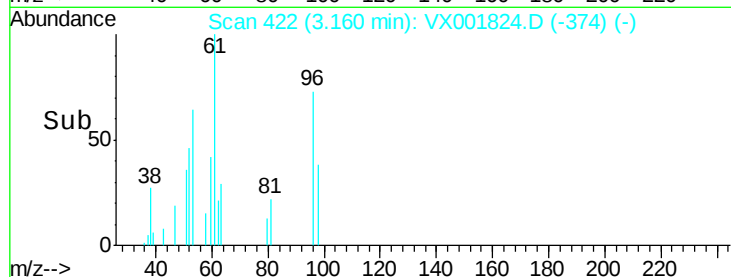
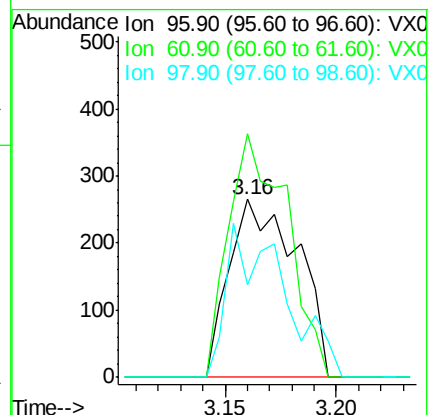
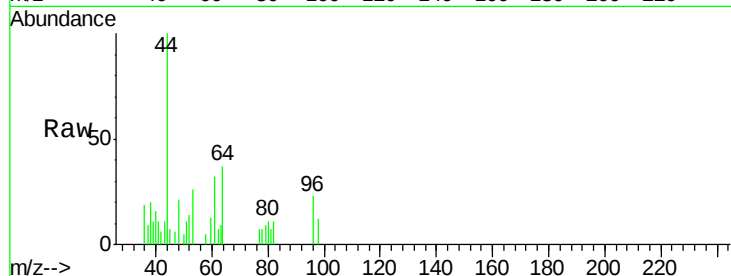
Tot Ion: 96 Resp: 560

Ion Ratio Lower Upper

96 100

61 137.0 105.8 158.8

98 51.7 50.2 75.4



#27

cis-1,2-Dichloroethene

Concen: 14.47 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

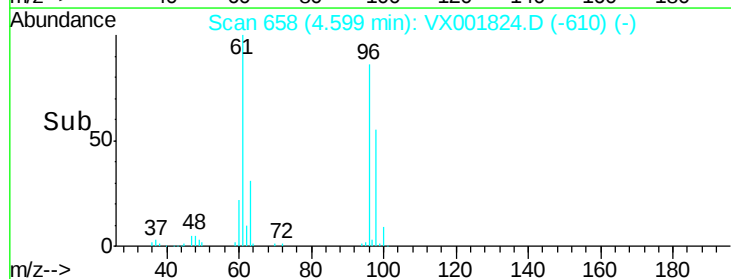
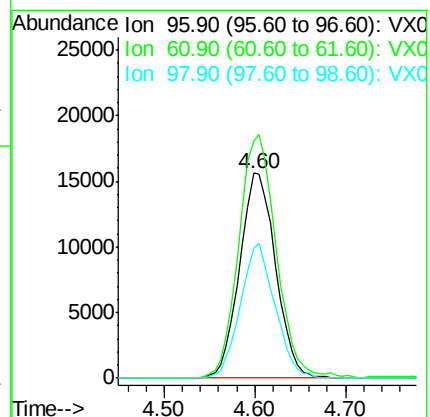
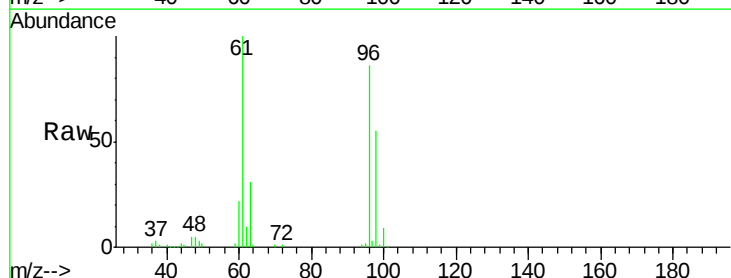
Tgt Ion: 96 Resp: 42997

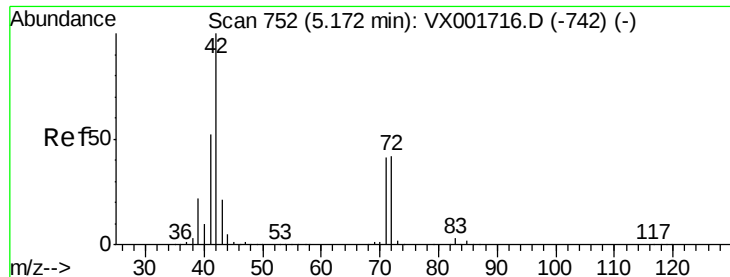
Ion Ratio Lower Upper

96 100

61 124.3 0.0 280.4

98 63.3 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.71 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

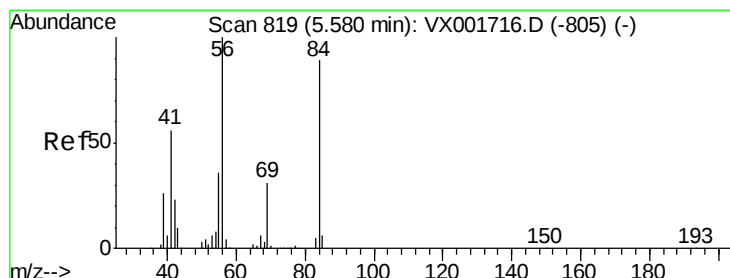
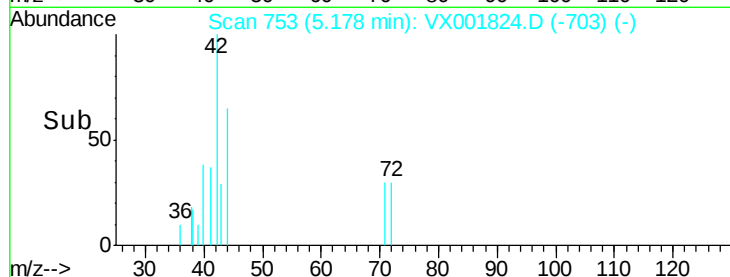
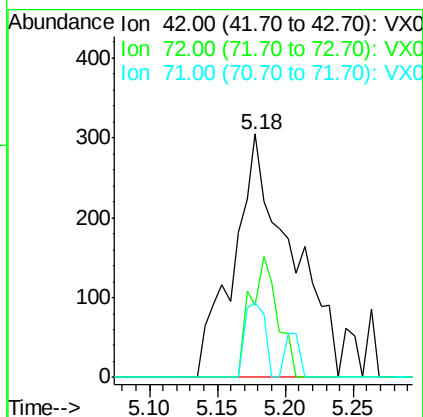
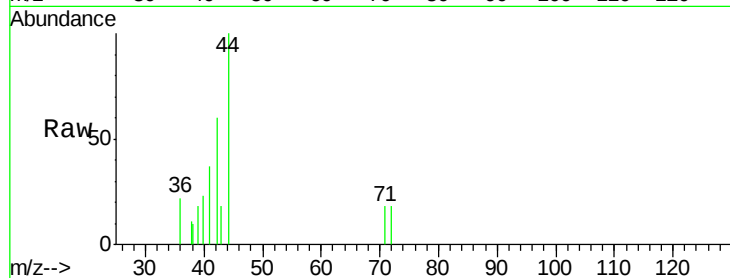
Tot Ion: 42 Resp: 896

Ion Ratio Lower Upper

42 100

72 23.8 35.4 53.2#

71 10.6 33.2 49.8#



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

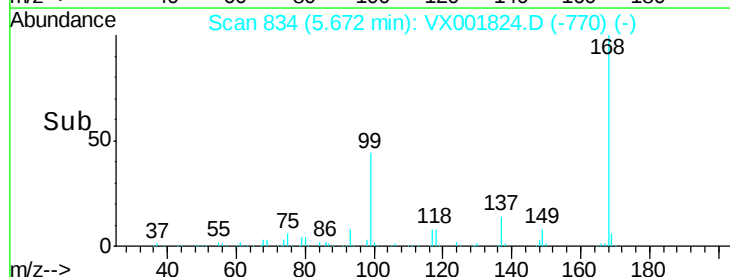
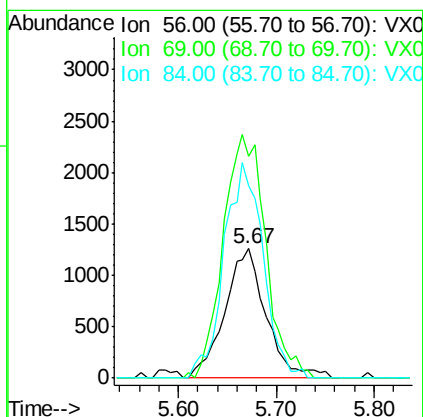
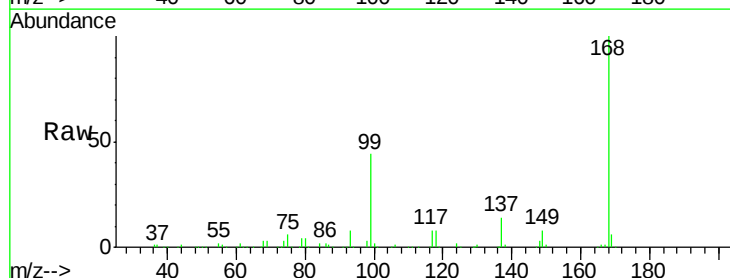
Tgt Ion: 56 Resp: 3687

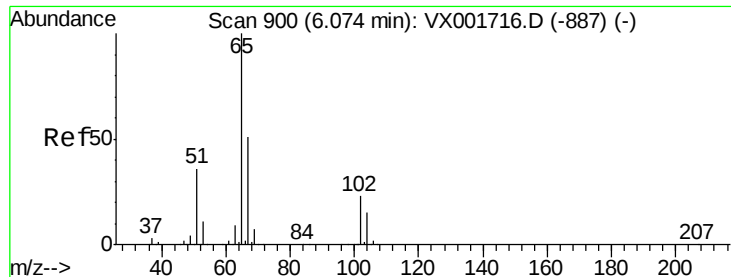
Ion Ratio Lower Upper

56 100

69 172.0 25.0 37.6#

84 148.8 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 42.06 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

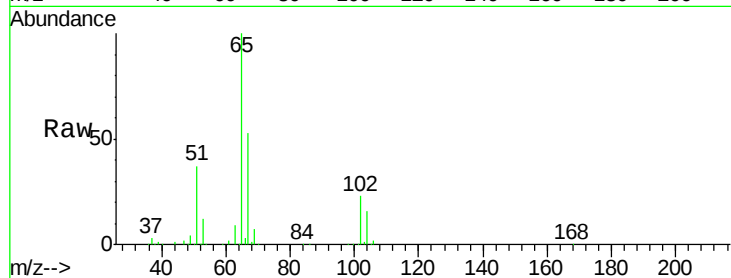
ClientSampleId :

Tot Ion: 65 Resp: 135168

Ion Ratio Lower Upper

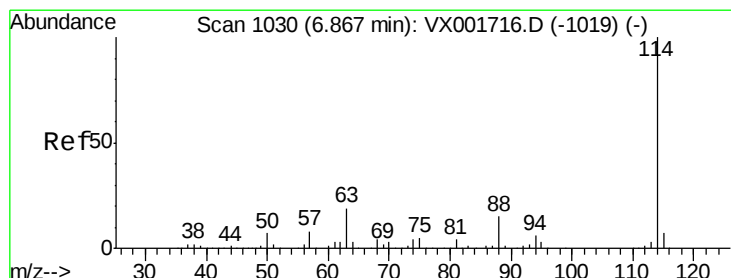
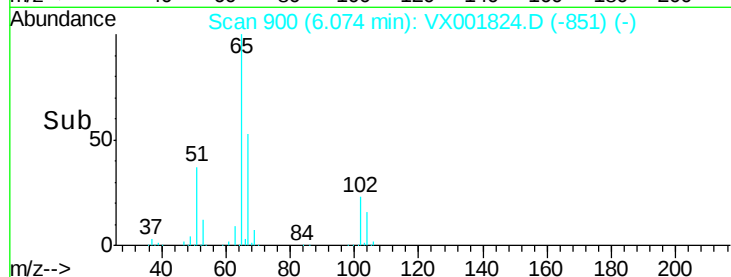
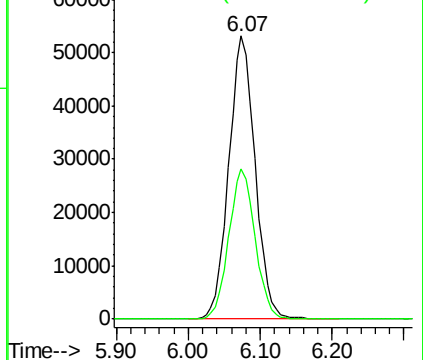
65 100

67 53.0 0.0 102.8



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: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

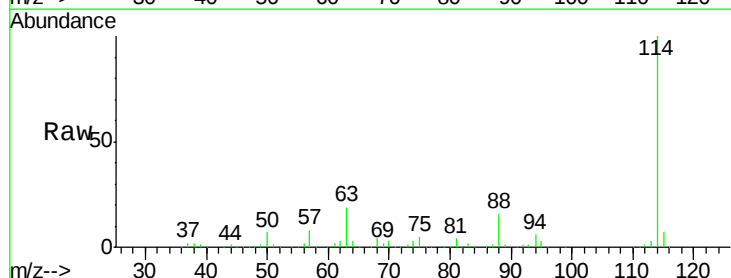
Tgt Ion: 114 Resp: 314679

Ion Ratio Lower Upper

114 100

63 19.5 0.0 37.0

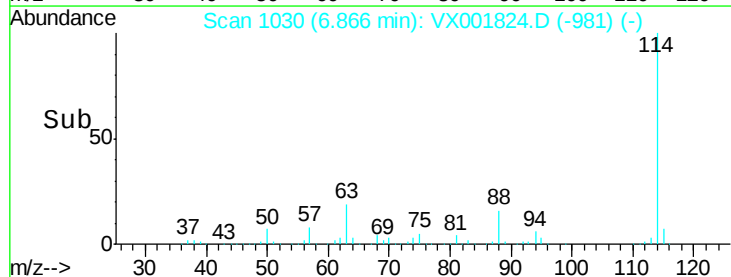
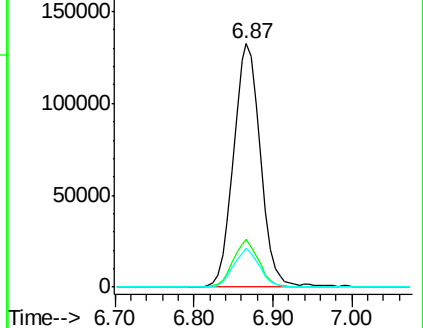
88 15.9 0.0 29.8

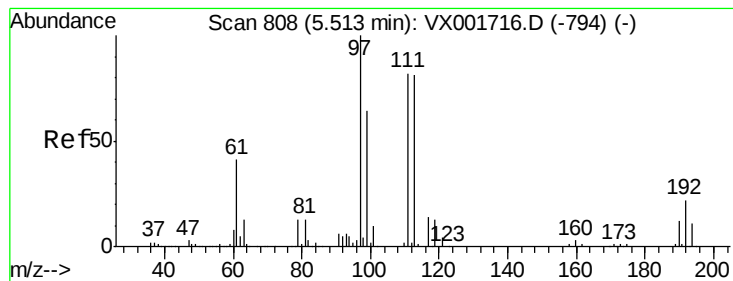


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 44.82 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :
MSVOA_X
ClientSampled :

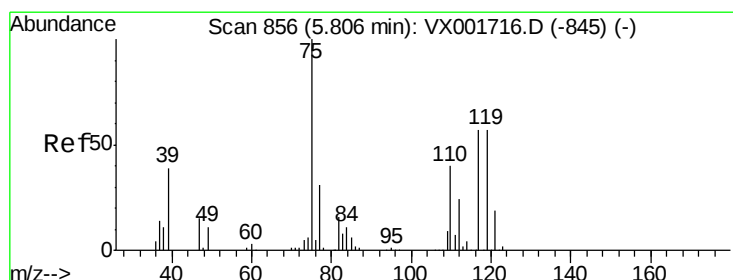
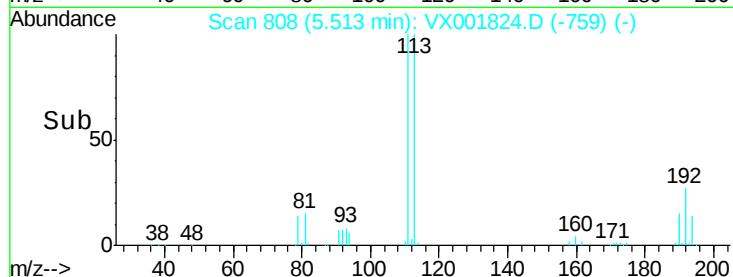
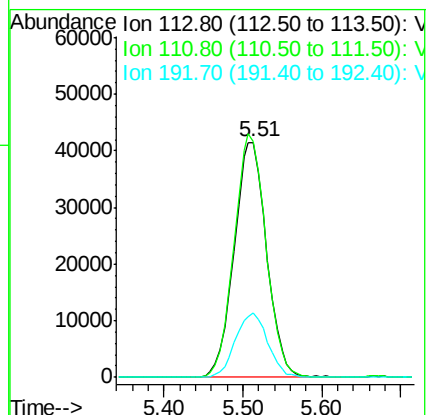
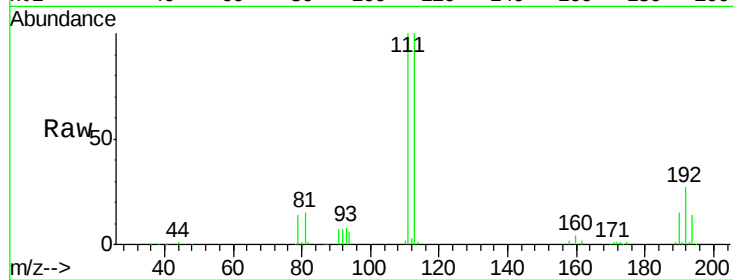
Tot Ion:113 Resp: 119012

Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

192 27.3 21.6 32.4



#36

1,1-Dichloropropene

Concen: 3.84 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

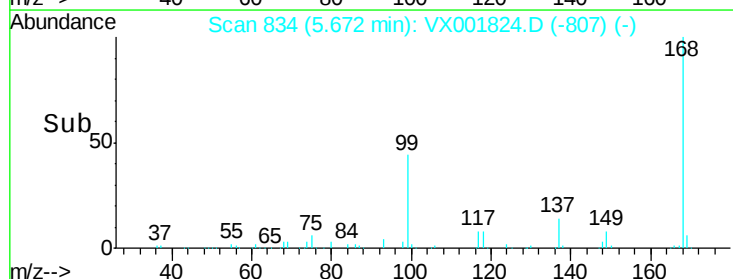
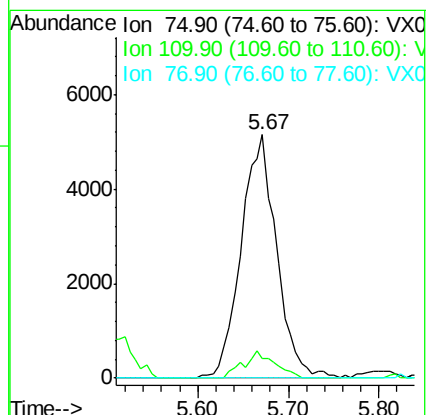
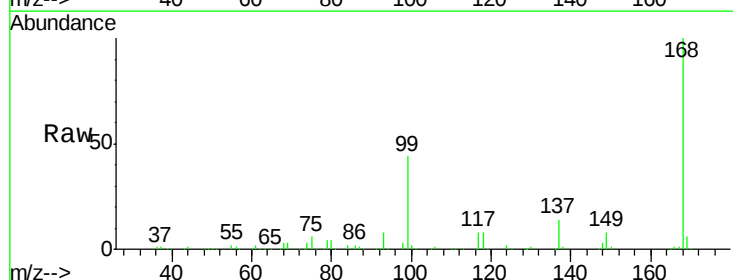
Tgt Ion: 75 Resp: 13925

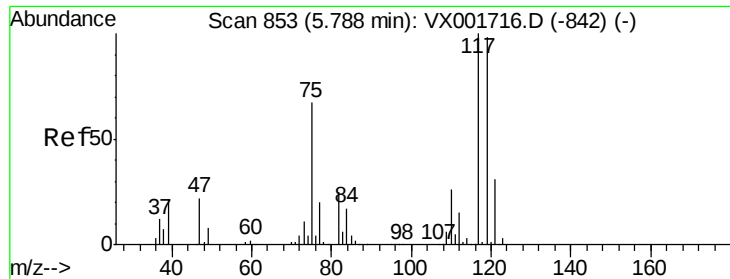
Ion Ratio Lower Upper

75 100

110 9.9 19.1 57.1#

77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

ClientSampleId :

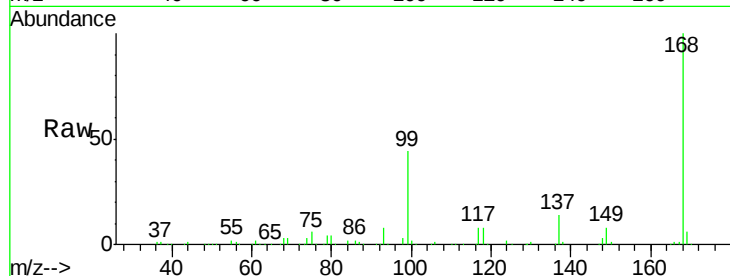
Tot Ion:117 Resp: 19443

Ion Ratio Lower Upper

117 100

119 5.5 77.6 116.4#

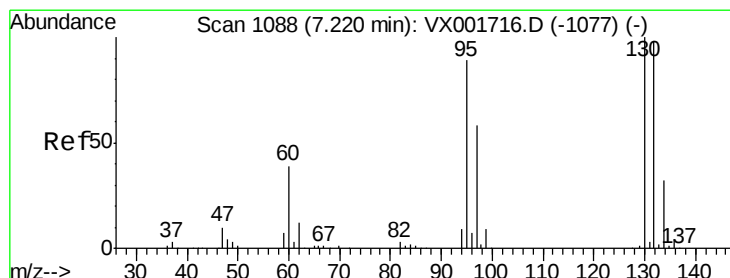
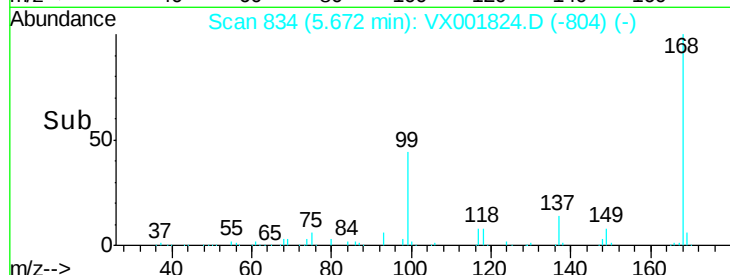
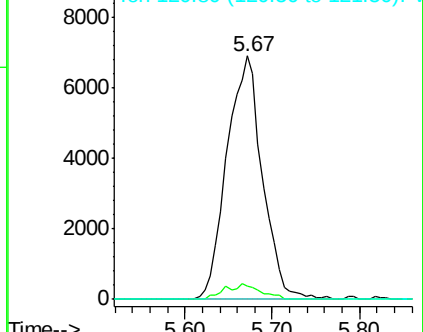
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 40.81 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX001824.D

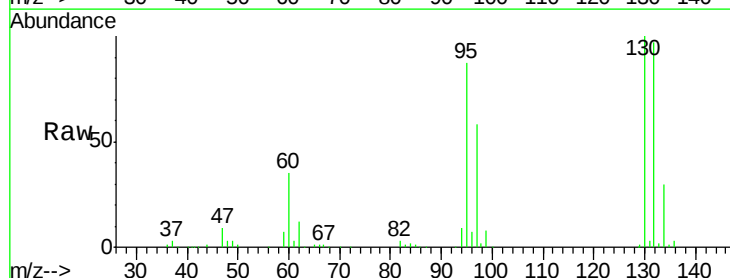
Acq: 18 May 2018 14:27

Tgt Ion:130 Resp: 135198

Ion Ratio Lower Upper

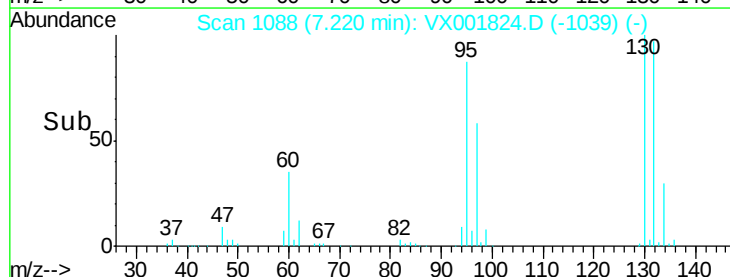
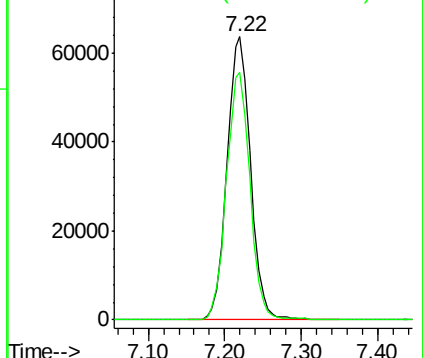
130 100

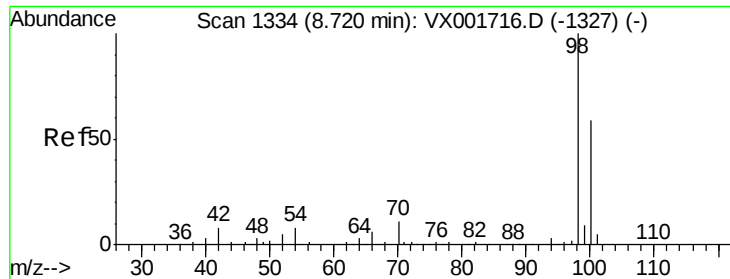
95 87.5 0.0 177.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 45.09 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

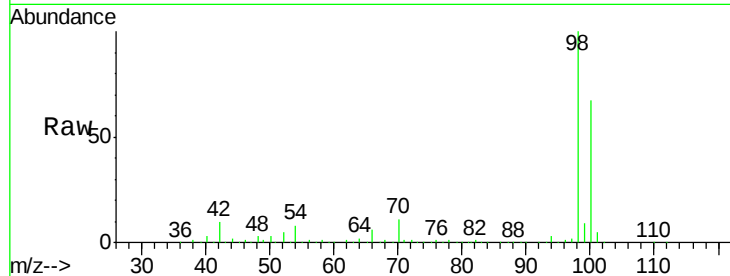
ClientSampleId :

Tot Ion: 98 Resp: 428802

Ion Ratio Lower Upper

98 100

100 67.1 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX001716.D (-1327) (-)

Ion 100.00 (99.70 to 100.70): VX001824.D (-1285) (-)

8.72

300000

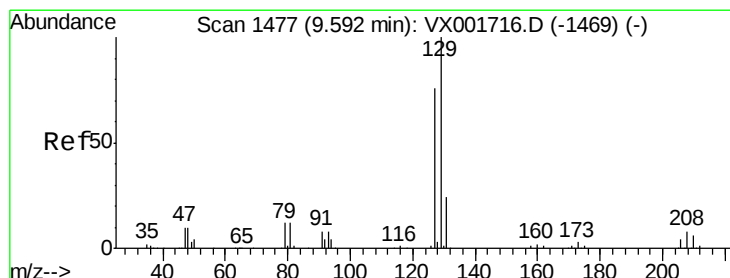
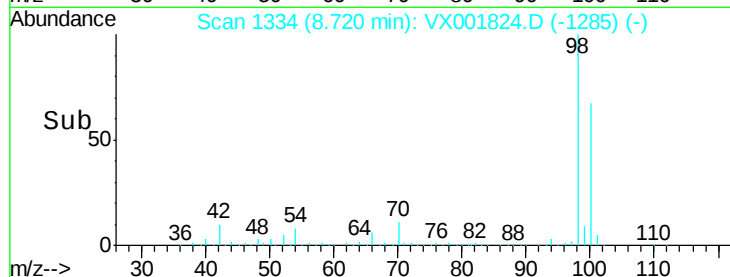
200000

100000

0

8.60 8.70 8.80

Time-->



#60

Dibromochloromethane

Concen: 0.53 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX001824.D

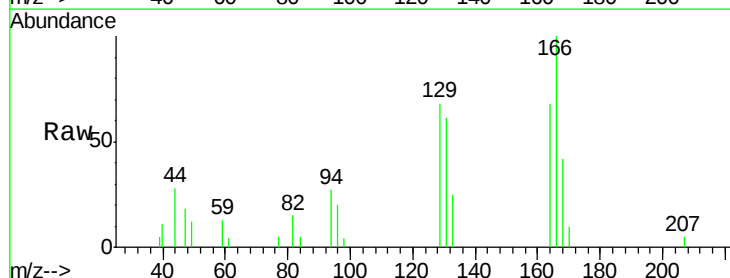
Acq: 18 May 2018 14:27

Tgt Ion: 129 Resp: 1433

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): VX001716.D (-1469) (-)

Ion 126.80 (126.50 to 127.50): VX001824.D (-1428) (-)

9.34

1000

800

600

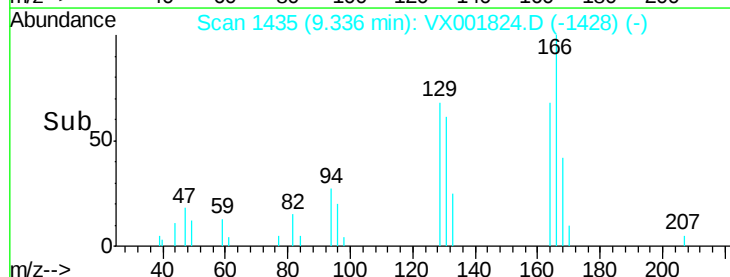
400

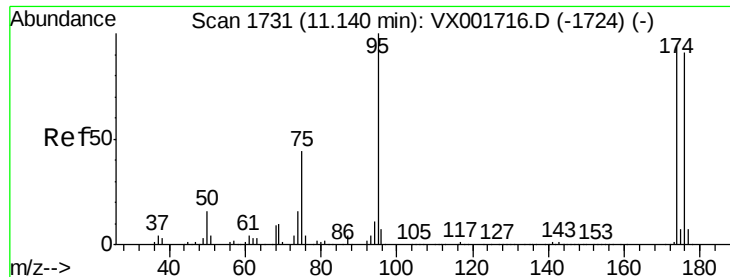
200

0

9.30 9.35 9.40

Time-->

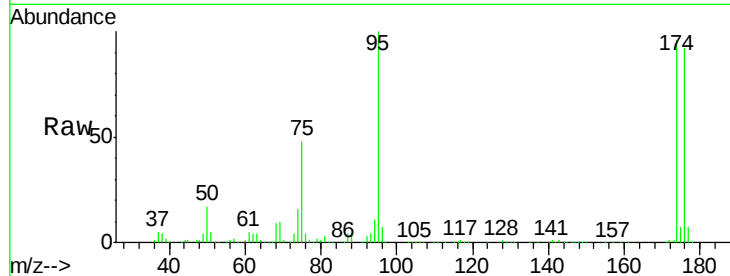




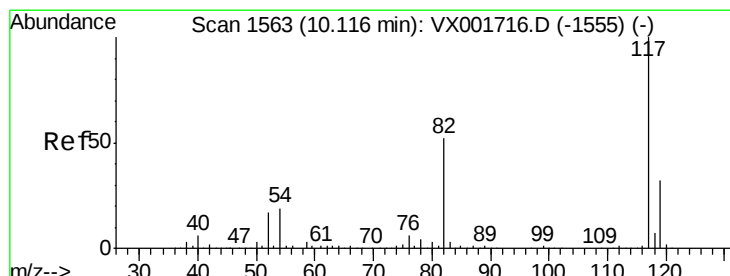
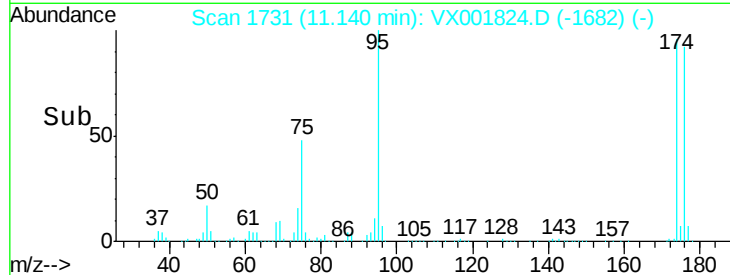
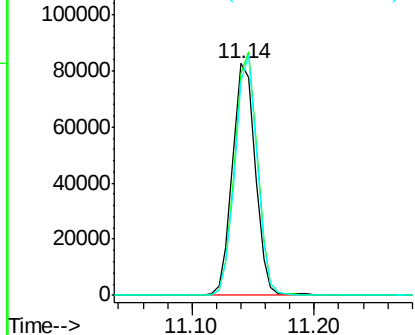
#62
4-Bromofluorobenzene
Concen: 31.12 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX001824.D
Acq: 18 May 2018 14:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	95	Resp	106567
Ion	Ratio	Lower	Upper
95	100		
174	103.9	0.0	201.8
176	99.8	0.0	196.8

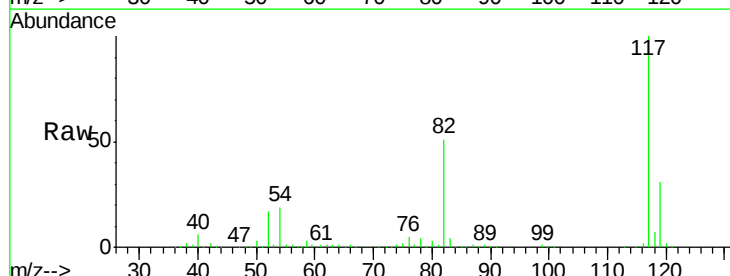


Abundance Ion 94.90 (94.60 to 95.60): VX001716.D (-1724) (-)
Ion 173.80 (173.50 to 174.50): VX001716.D (-1724) (-)
Ion 175.80 (175.50 to 176.50): VX001716.D (-1724) (-)

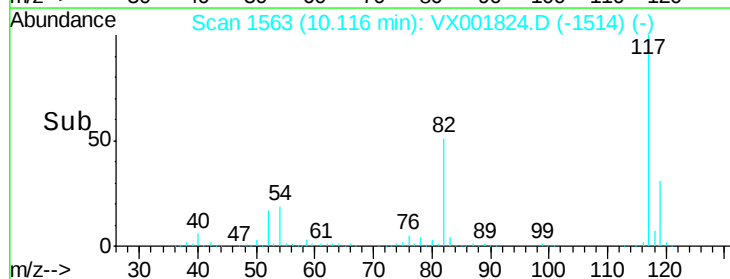
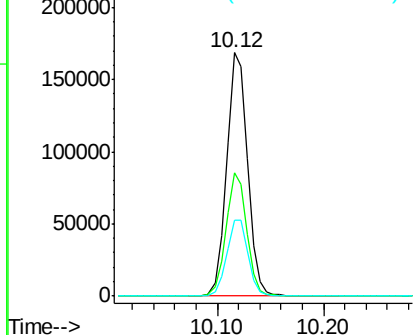


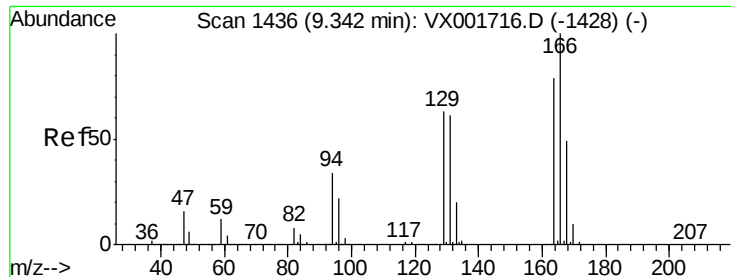
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX001824.D
Acq: 18 May 2018 14:27

Tgt Ion	117	Resp	232006
Ion	Ratio	Lower	Upper
117	100		
82	50.6	41.4	62.2
119	31.2	25.6	38.4



Abundance Ion 116.90 (116.60 to 117.60): VX001716.D (-1555) (-)
Ion 82.00 (81.70 to 82.70): VX001716.D (-1555) (-)
Ion 118.90 (118.60 to 119.60): VX001716.D (-1555) (-)





#64

Tetrachloroethene

Concen: 0.54 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

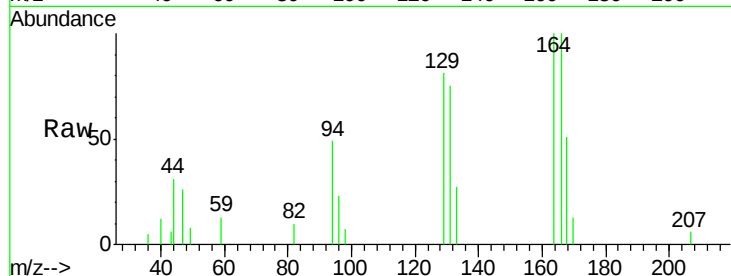
Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

ClientSampled :



Tot Ion:164 Resp: 1624

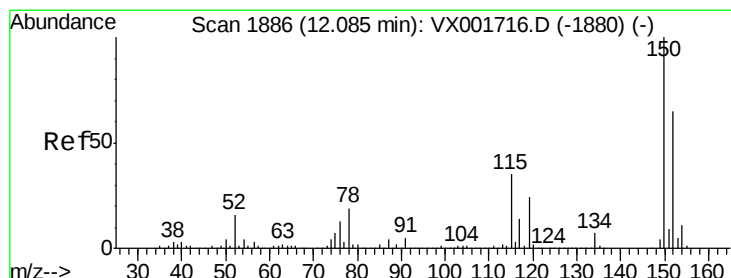
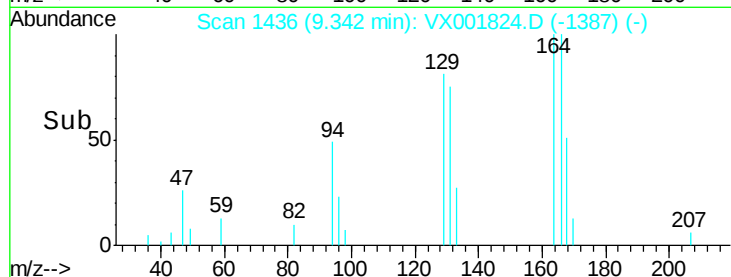
Ion Ratio Lower Upper

164 100

166 99.8 101.8 152.8#

129 81.4 63.8 95.6

131 74.6 62.2 93.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

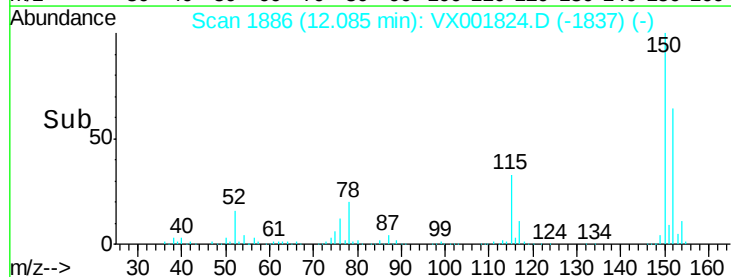
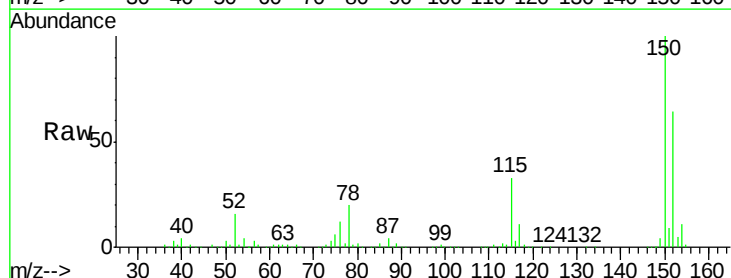
Tgt Ion:152 Resp: 100329

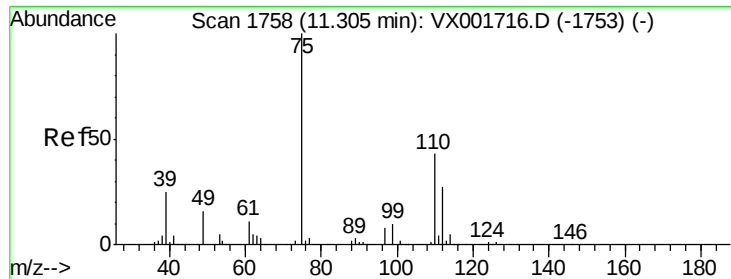
Ion Ratio Lower Upper

152 100

115 51.7 37.4 112.2

150 154.5 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 25.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

Instrument :

MSVOA_X

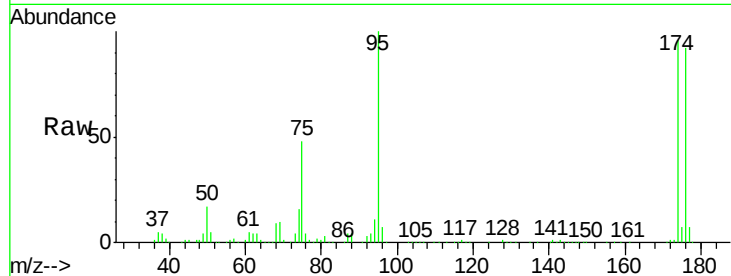
ClientSampled :

Tot Ion: 75 Resp: 49465

Ion Ratio Lower Upper

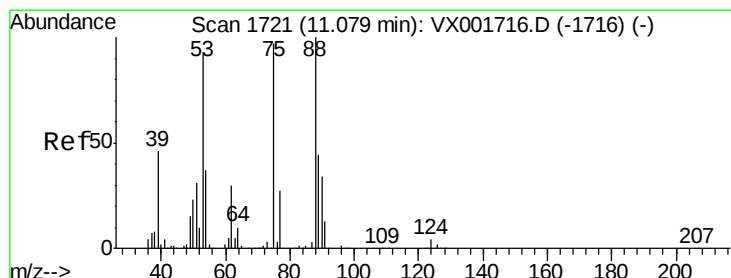
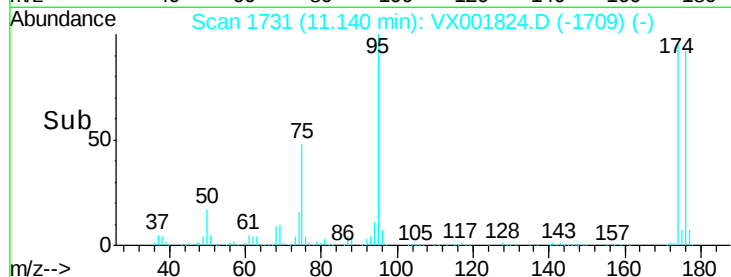
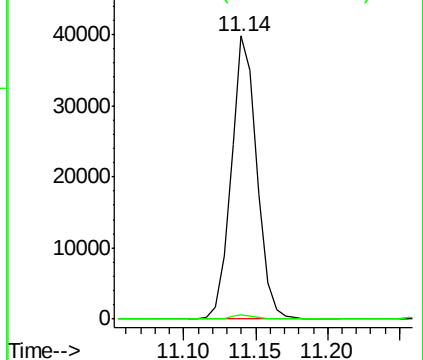
75 100

77 1.4 18.9 56.7#



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: 75.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001824.D

Acq: 18 May 2018 14:27

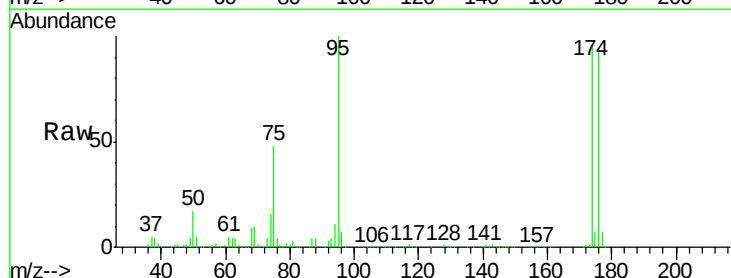
Tgt Ion: 75 Resp: 49465

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.2#

89 0.0 38.8 58.2#



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

