

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032519\
 Data File : VX008436.D
 Acq On : 26 Mar 2019 01:38
 Operator : JC/SP
 Sample : K2059-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB032119

Quant Time: Mar 26 06:08:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 04:58:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	231526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	393488	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	335576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138154	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	165475	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
35) Dibromofluoromethane	5.50	113	121834	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
50) Toluene-d8	8.71	98	491468	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
62) 4-Bromofluorobenzene	11.13	95	165856	43.63	ug/l	0.00
Spiked Amount			Recovery	=	87.26%	

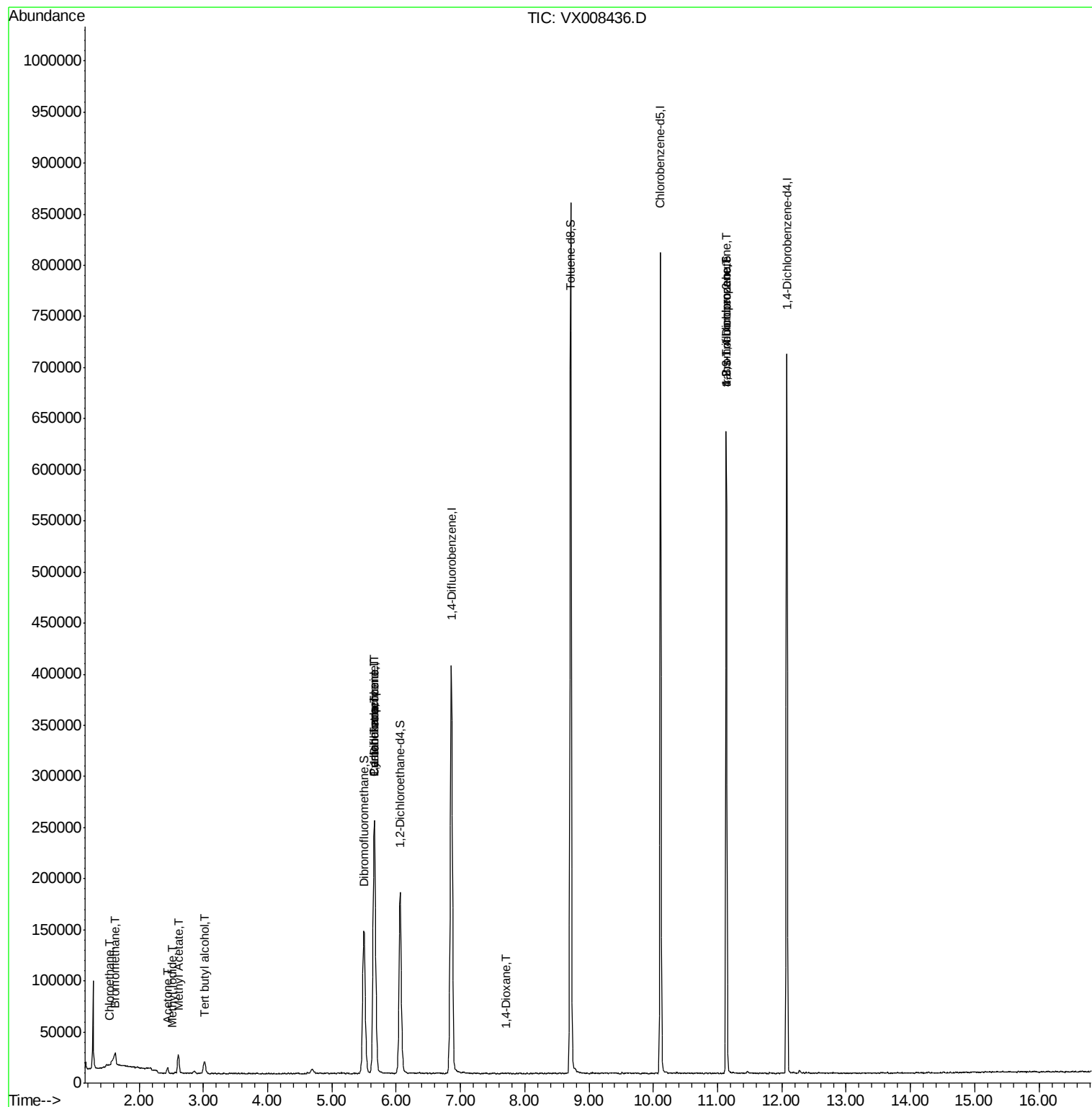
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	455	Below Cal	#	76
5) Bromomethane	1.64	94	383	1.992	ug/l	82
6) Chloroethane	1.55	64	9619	4.261	ug/l #	47
10) Methyl Iodide	2.52	142	26	4.139	ug/l #	42
11) Tert butyl alcohol	3.01	59	7996	10.282	ug/l #	88
16) Acetone	2.44	43	6168	3.362	ug/l	99
18) Methyl Acetate	2.60	43	4893	1.111	ug/l #	56
20) Methylene Chloride	2.86	84	1088	Below Cal	#	71
21) trans-1,2-Dichloroethene	3.15	96	21	Below Cal	#	1
31) Cyclohexane	5.67	56	5548	0.986	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19851	4.732	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22833	6.521	ug/l #	15
49) 1,4-Dioxane	7.71	88	20	0.231	ug/l #	19
76) 1,2,3-Trichloropropane	11.13	75	84787	20.643	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84787	66.118	ug/l #	9

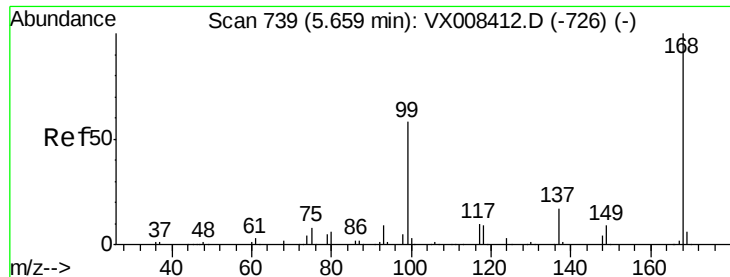
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 04:58:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

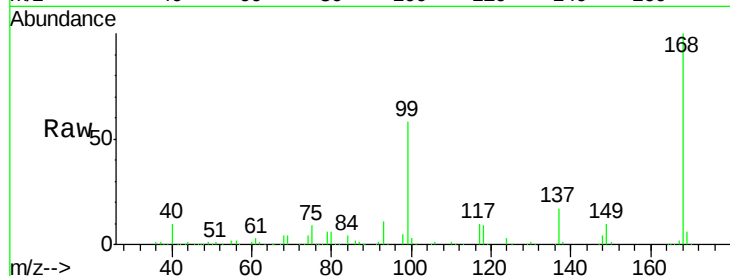
FB032119

Tot Ion:168 Resp: 231526

Ion Ratio Lower Upper

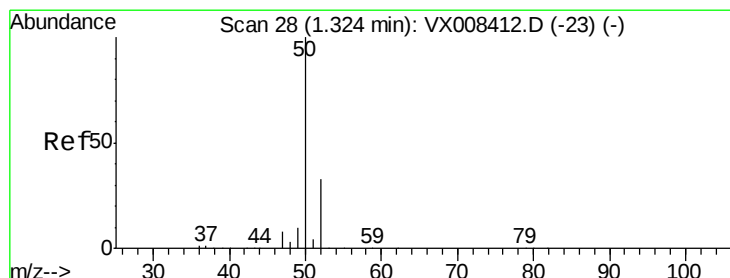
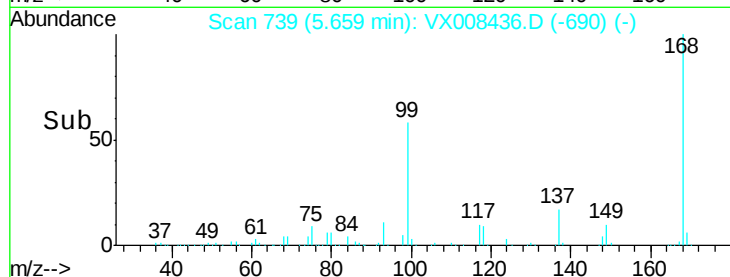
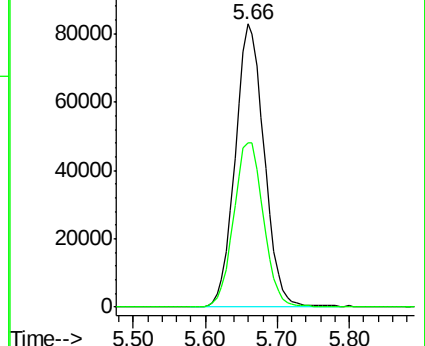
168 100

99 57.9 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008436.D

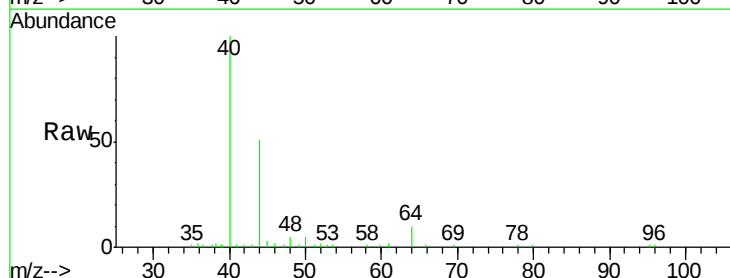
Acq: 26 Mar 2019 01:38

Tgt Ion: 50 Resp: 455

Ion Ratio Lower Upper

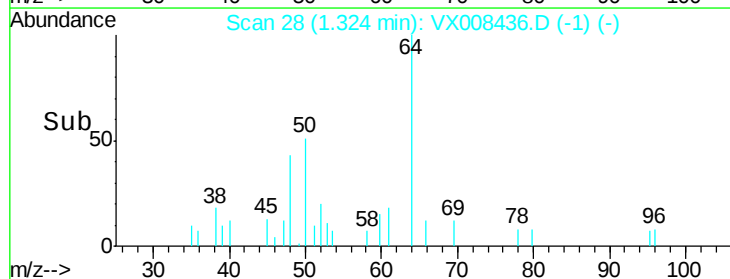
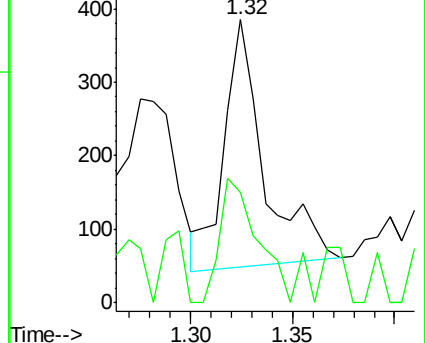
50 100

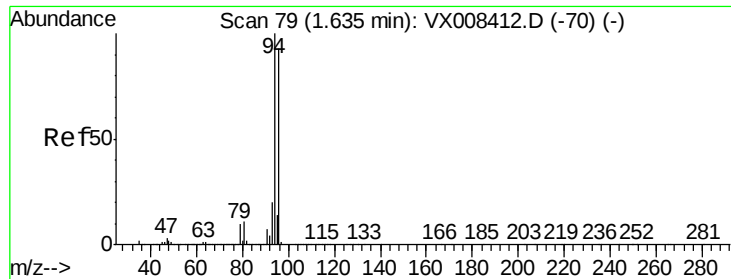
52 46.4 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.992 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampled :

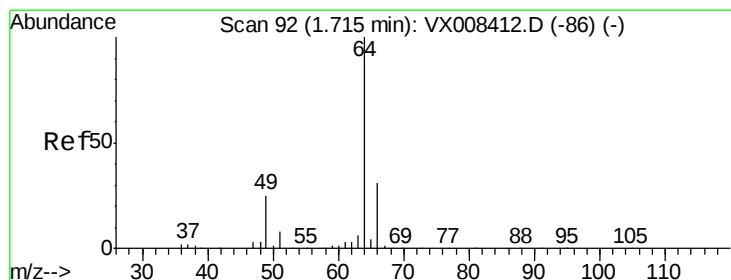
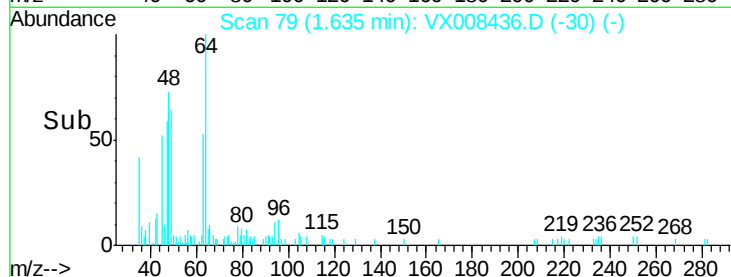
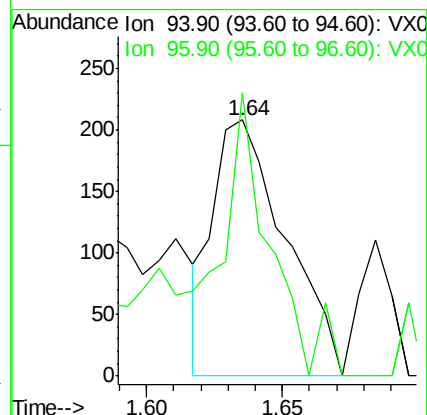
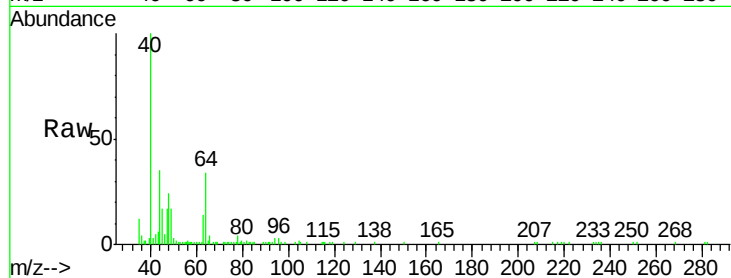
FB032119

Tot Ion: 94 Resp: 383

Ion Ratio Lower Upper

94 100

96 110.6 74.8 112.2



#6

Chloroethane

Concen: 4.261 ug/l

RT: 1.55 min Scan# 65

Delta R.T. -0.16 min

Lab File: VX008436.D

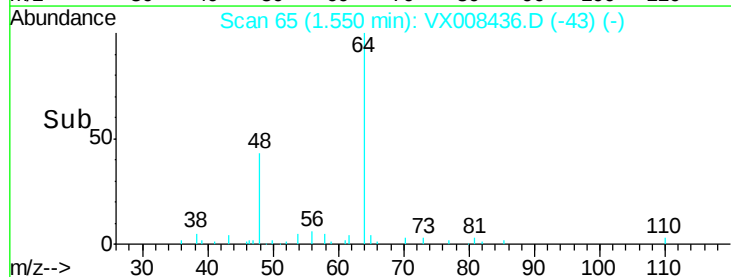
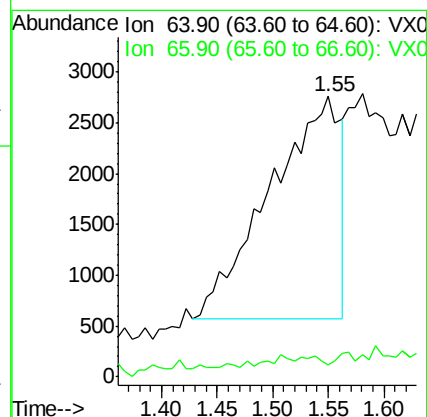
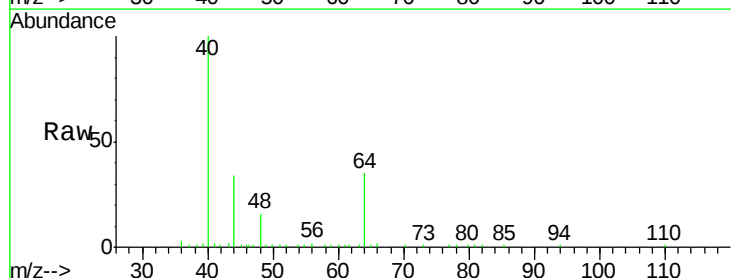
Acq: 26 Mar 2019 01:38

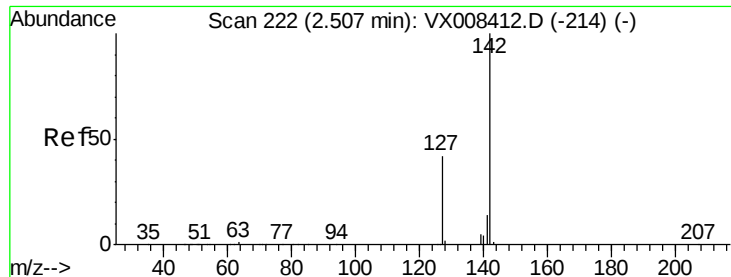
Tgt Ion: 64 Resp: 9619

Ion Ratio Lower Upper

64 100

66 1.8 25.1 37.7#

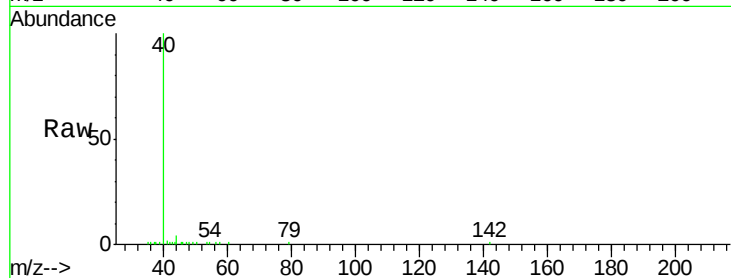




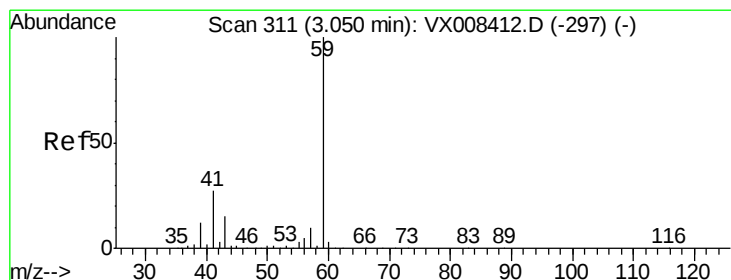
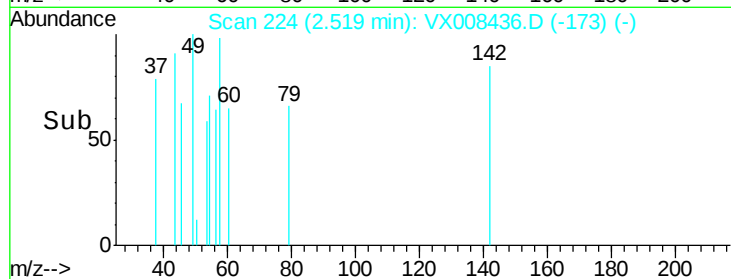
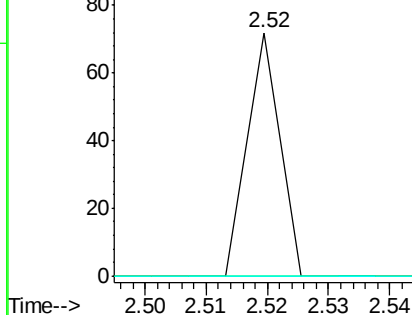
#10
Methvl Iodide
Concen: 4.139 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008436.D
Acq: 26 Mar 2019 01:38

Instrument :
MSVOA_X
ClientSampleId :
FB032119

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.6	50.4#
141	0.0	11.3	16.9#

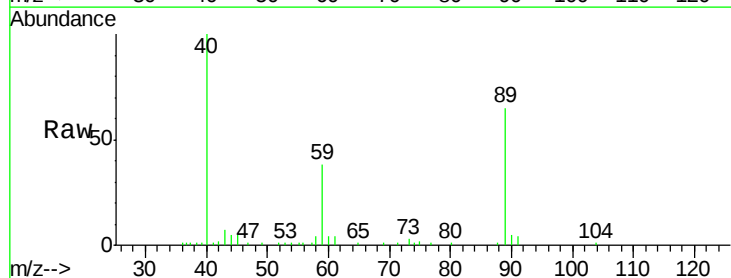


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

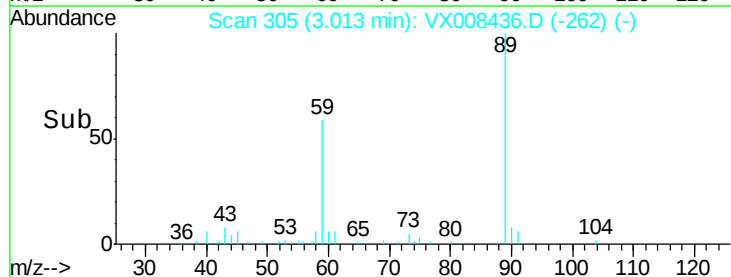
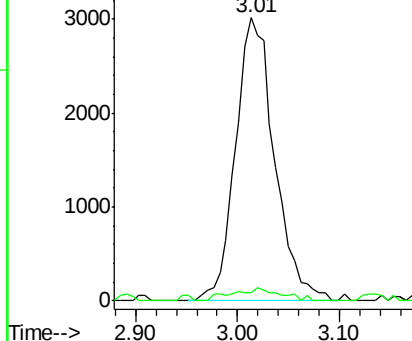


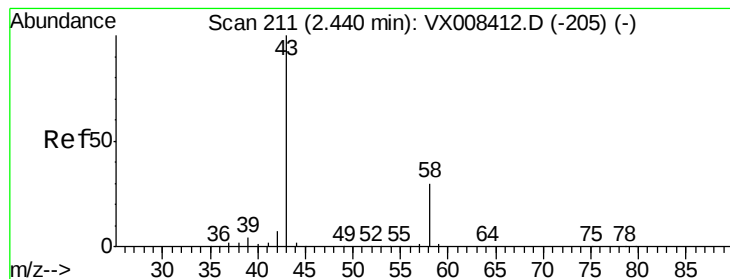
#11
Tert butyl alcohol
Concen: 10.282 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008436.D
Acq: 26 Mar 2019 01:38

Tgt Ion	Ratio	Lower	Upper
59	100		
57	5.8	8.2	12.4#



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





#16

Acetone

Concen: 3.362 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

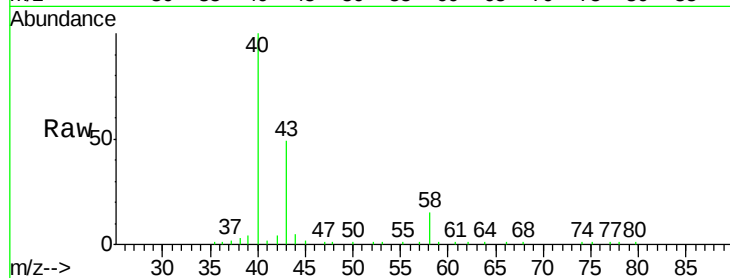
FB032119

Tot Ion: 43 Resp: 6168

Ion Ratio Lower Upper

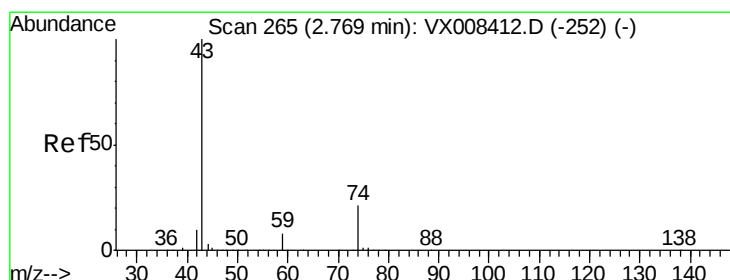
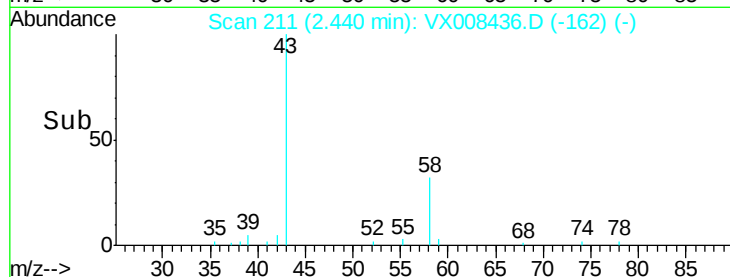
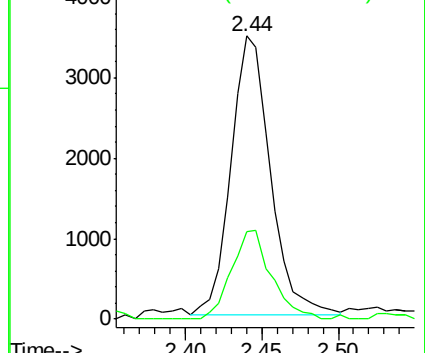
43 100

58 29.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.111 ug/l

RT: 2.60 min Scan# 238

Delta R.T. -0.16 min

Lab File: VX008436.D

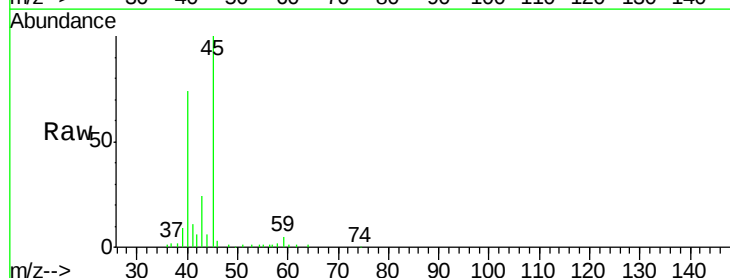
Acq: 26 Mar 2019 01:38

Tgt Ion: 43 Resp: 4893

Ion Ratio Lower Upper

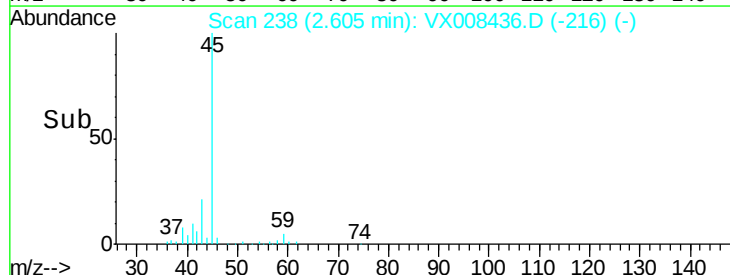
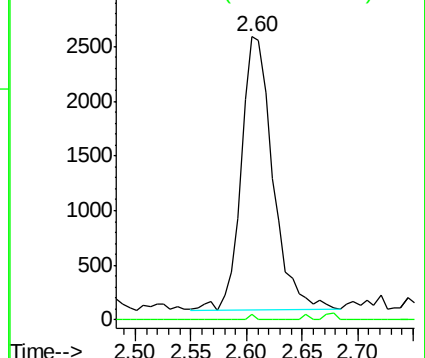
43 100

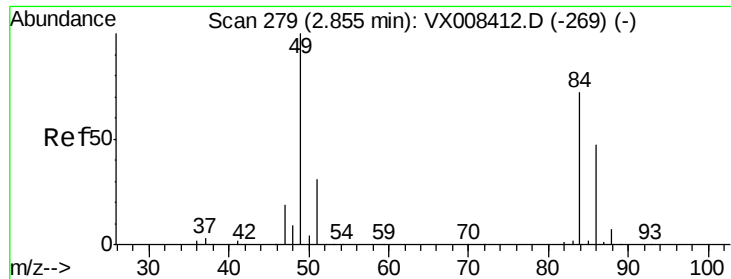
74 0.4 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

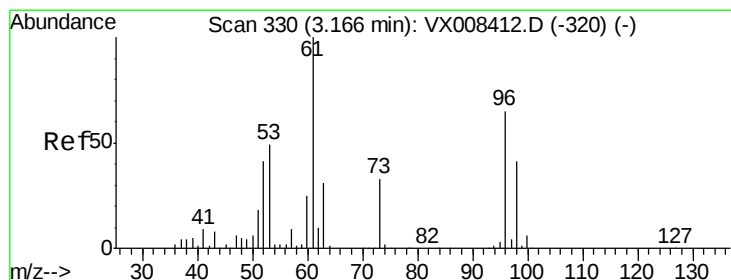
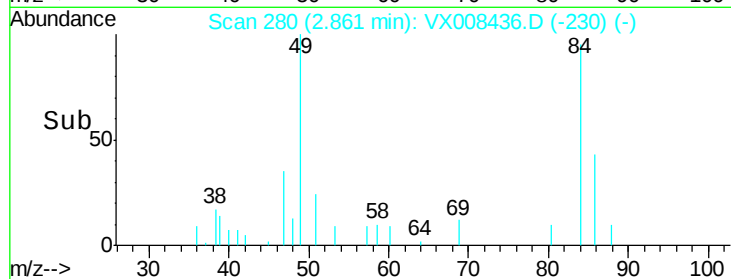
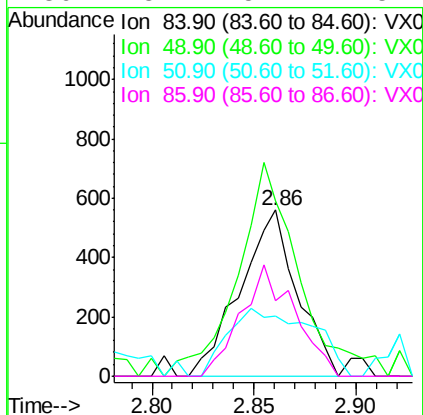
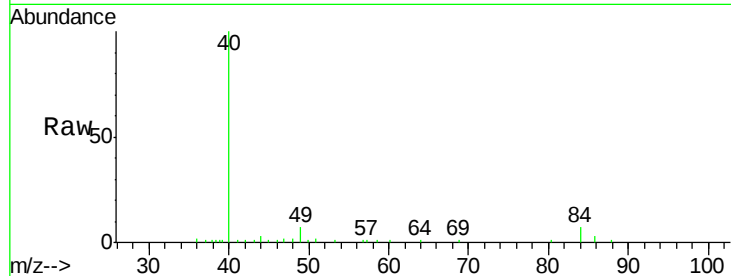




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX008436.D
Acq: 26 Mar 2019 01:38

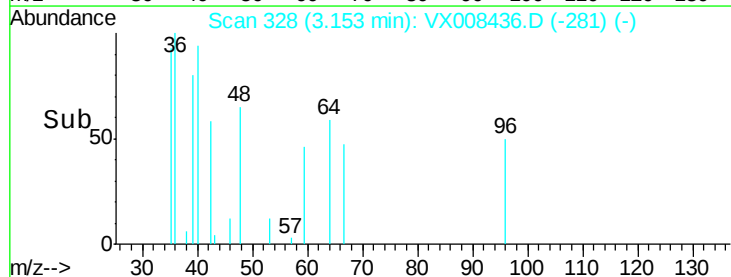
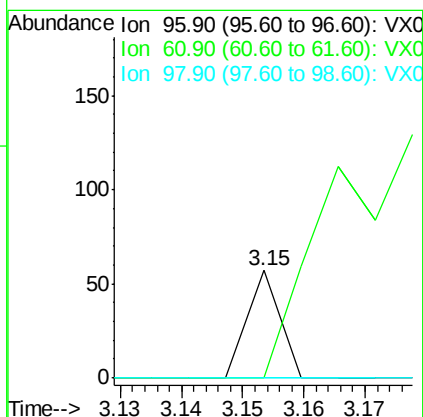
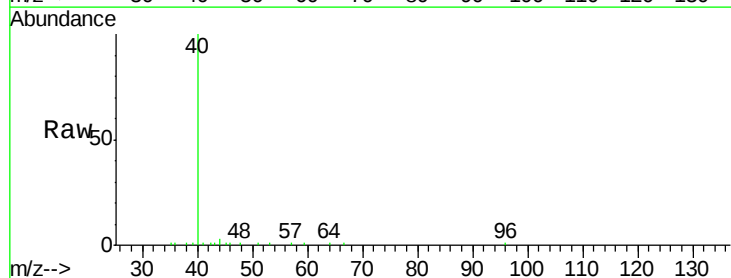
Instrument :
MSVOA_X
ClientSampled :
FB032119

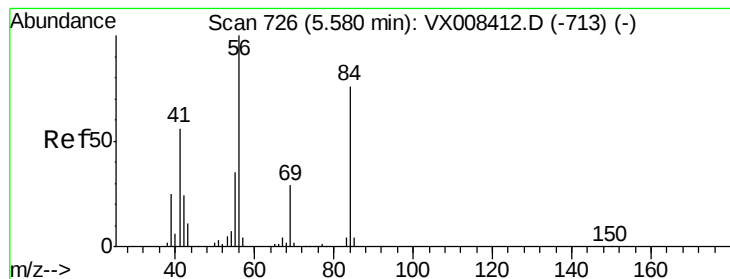
Tot Ion: 84 Resp: 1088
Ion Ratio Lower Upper
84 100
49 94.3 110.6 165.8#
51 35.9 33.9 50.9
86 45.2 52.2 78.2#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.15 min Scan# 328
Delta R.T. -0.01 min
Lab File: VX008436.D
Acq: 26 Mar 2019 01:38

Tgt Ion: 96 Resp: 21
Ion Ratio Lower Upper
96 100
61 0.0 122.6 184.0#
98 0.0 50.9 76.3#





#31

Cyclohexane

Concen: 0.986 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

FB032119

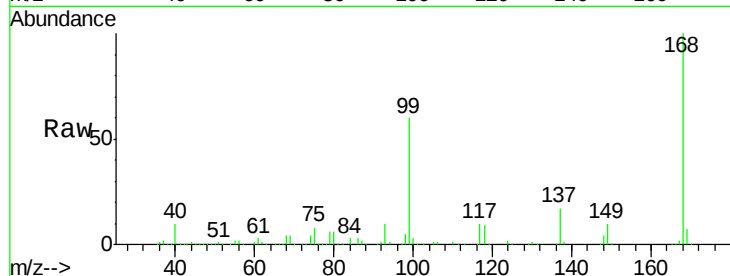
Tot Ion: 56 Resp: 5548

Ion Ratio Lower Upper

56 100

69 169.4 23.2 34.8#

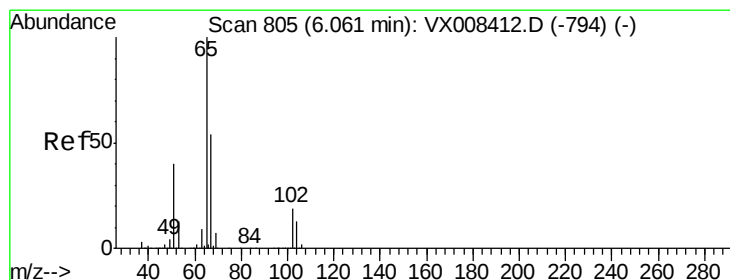
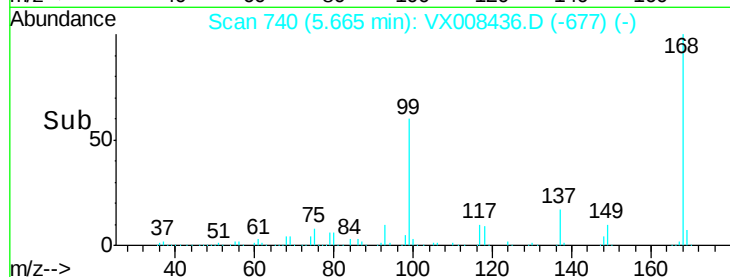
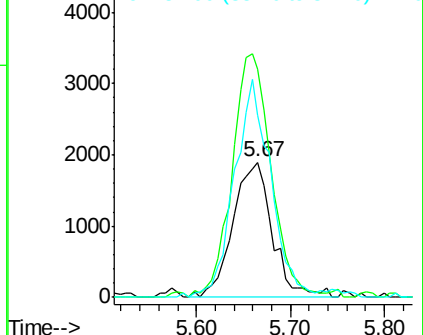
84 134.8 60.7 91.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.144 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008436.D

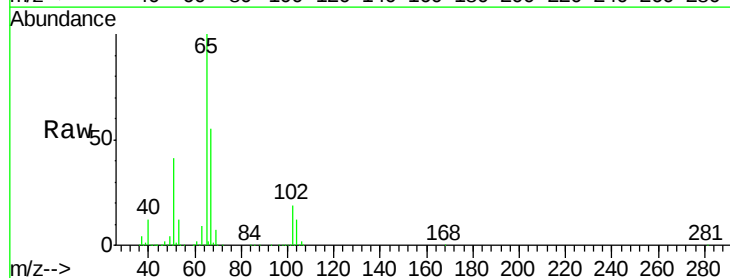
Acq: 26 Mar 2019 01:38

Tgt Ion: 65 Resp: 165475

Ion Ratio Lower Upper

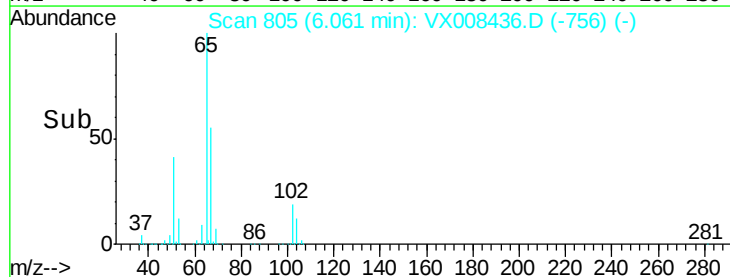
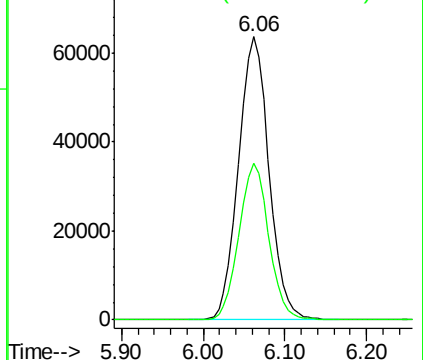
65 100

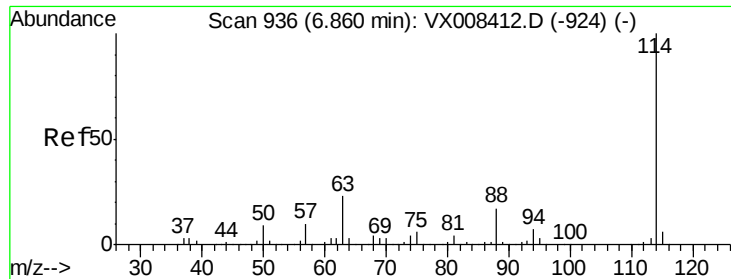
67 54.4 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

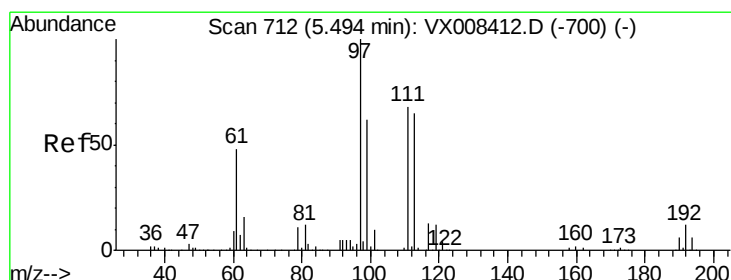
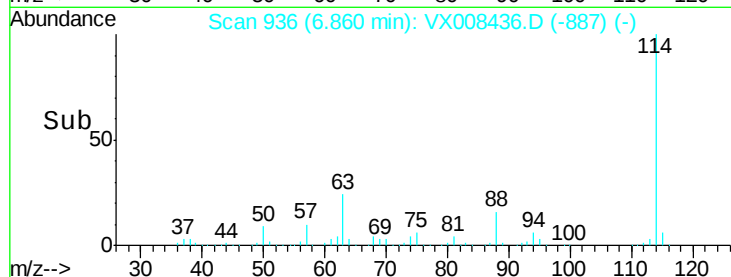
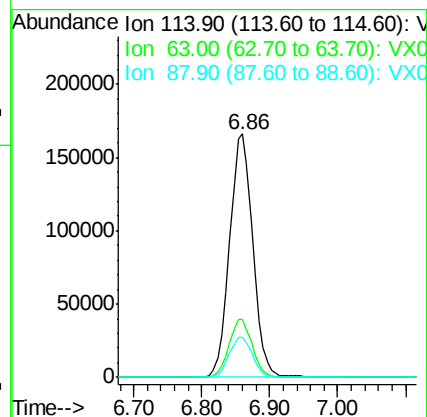
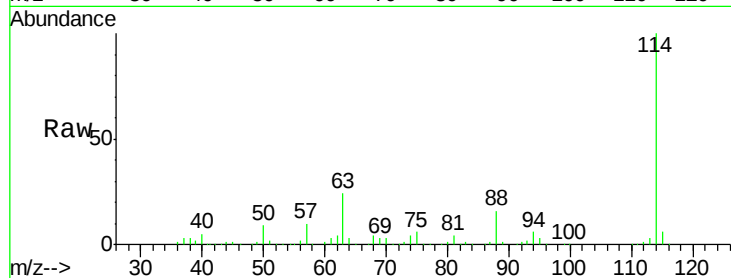




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX008436.D
Acq: 26 Mar 2019 01:38

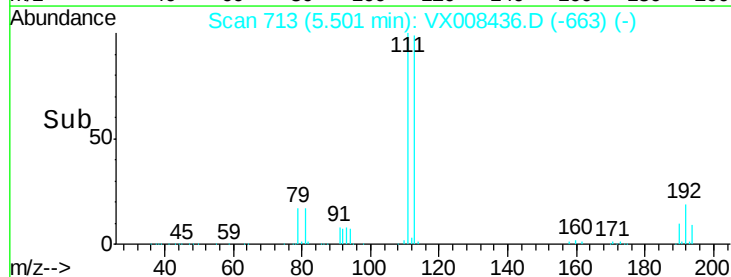
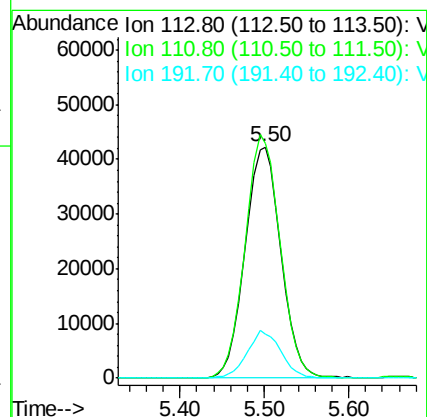
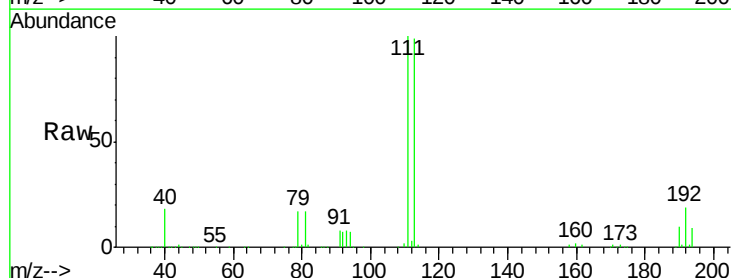
Instrument :
MSVOA_X
ClientSampleId :
FB032119

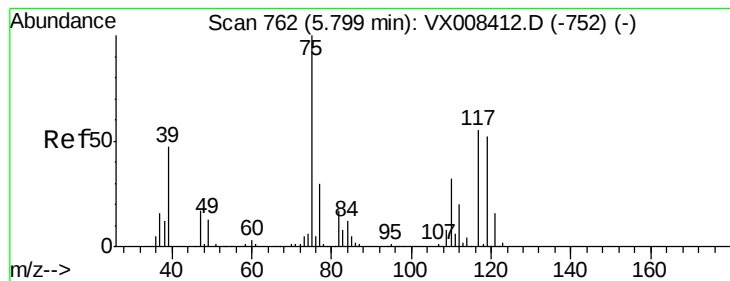
Tot Ion:114 Resp: 393488
Ion Ratio Lower Upper
114 100
63 23.8 0.0 46.4
88 16.5 0.0 33.2



#35
Dibromofluoromethane
Concen: 47.485 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX008436.D
Acq: 26 Mar 2019 01:38

Tgt Ion:113 Resp: 121834
Ion Ratio Lower Upper
113 100
111 103.3 83.0 124.4
192 19.4 15.6 23.4





#36

1,1-Dichloropropene

Concen: 4.732 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

FB032119

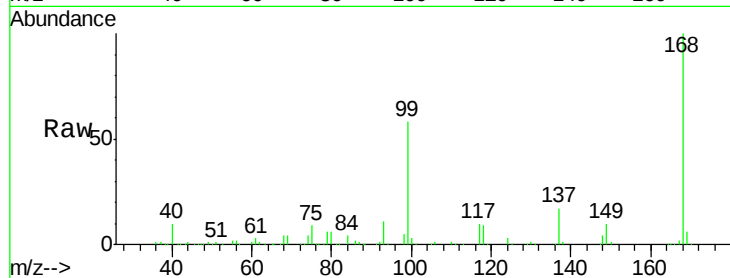
Tot Ion: 75 Resp: 19851

Ion Ratio Lower Upper

75 100

110 8.8 16.6 49.7#

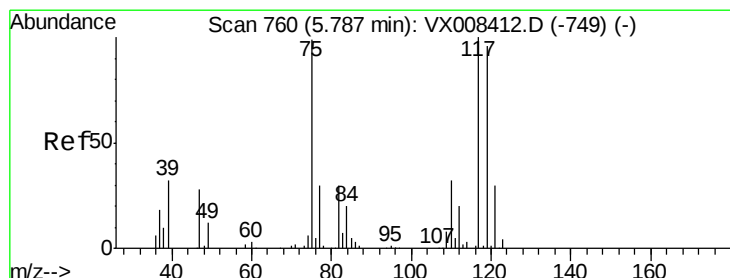
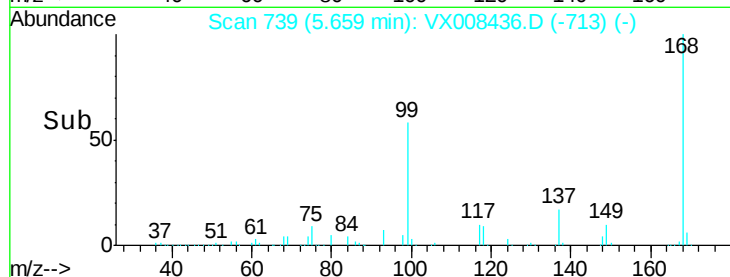
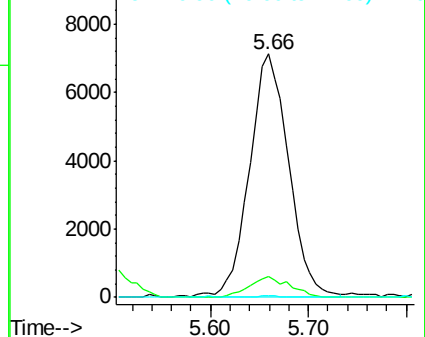
77 0.3 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.521 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

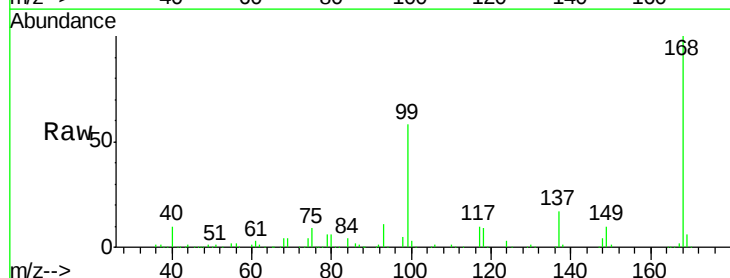
Tgt Ion: 117 Resp: 22833

Ion Ratio Lower Upper

117 100

119 3.9 76.7 115.1#

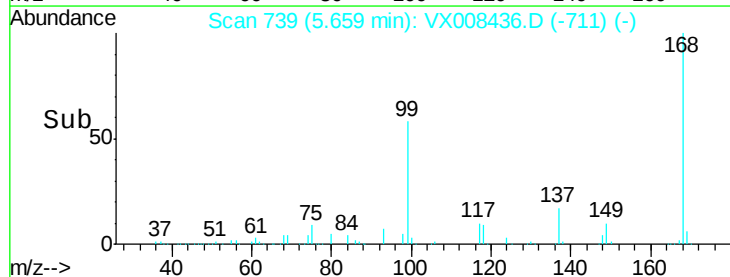
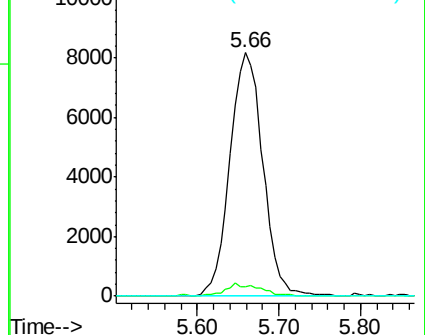
121 0.0 24.3 36.5#

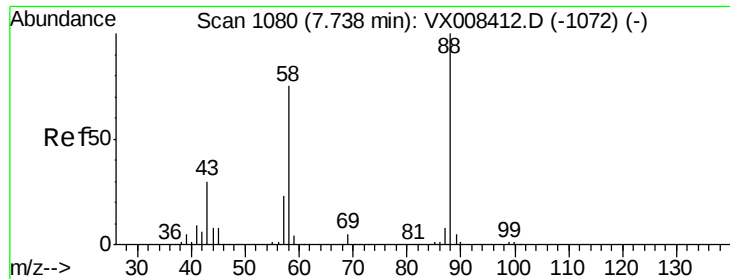


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.231 ug/l

RT: 7.71 min Scan# 1075

Delta R.T. -0.03 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

FB032119

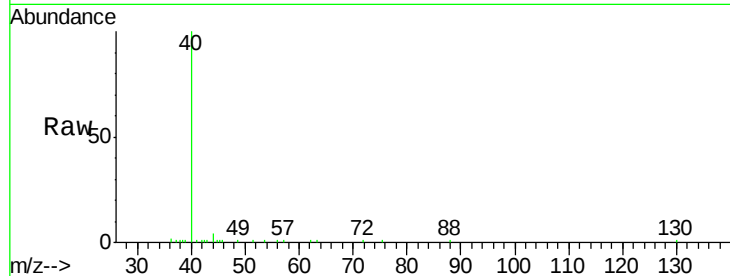
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

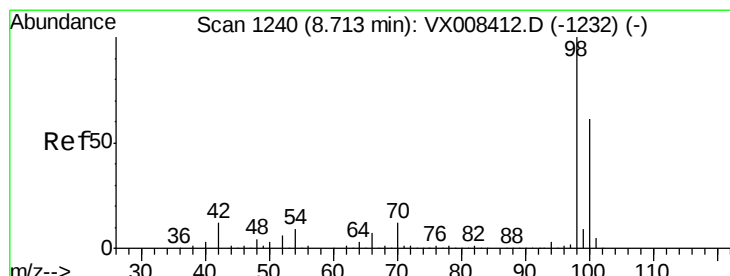
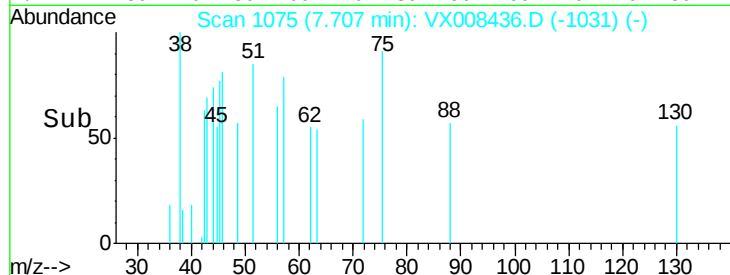
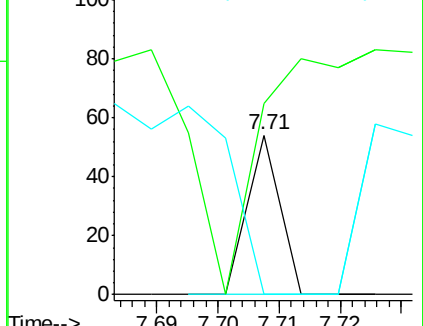
58 0.0 63.0 94.4#



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: 47.905 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008436.D

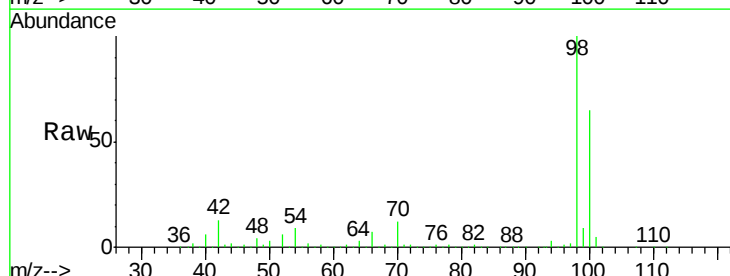
Acq: 26 Mar 2019 01:38

Tgt Ion: 98 Resp: 491468

Ion Ratio Lower Upper

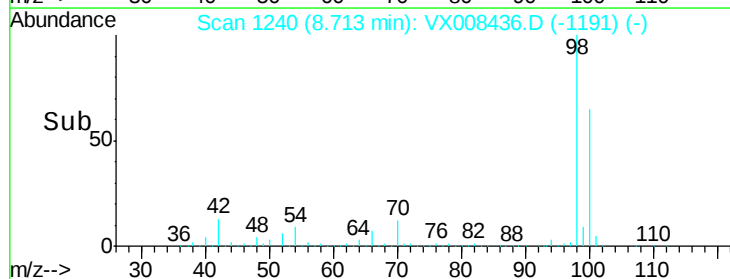
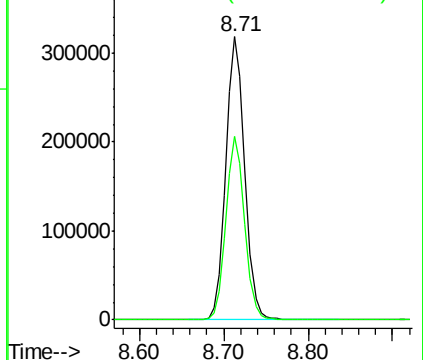
98 100

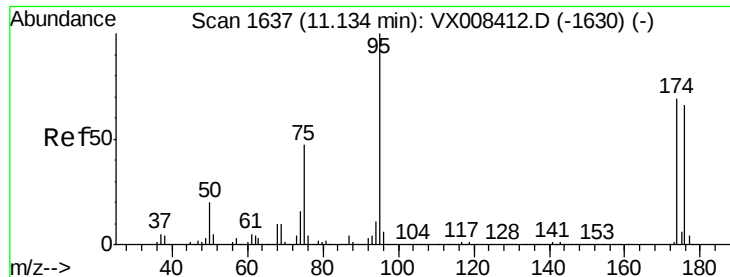
100 64.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.627 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

FB032119

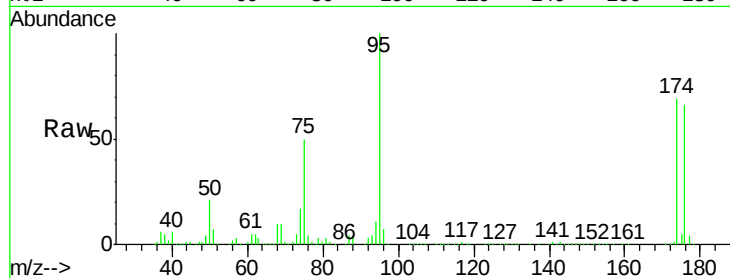
Tot Ion: 95 Resp: 165856

Ion Ratio Lower Upper

95 100

174 73.8 0.0 147.2

176 70.9 0.0 142.4

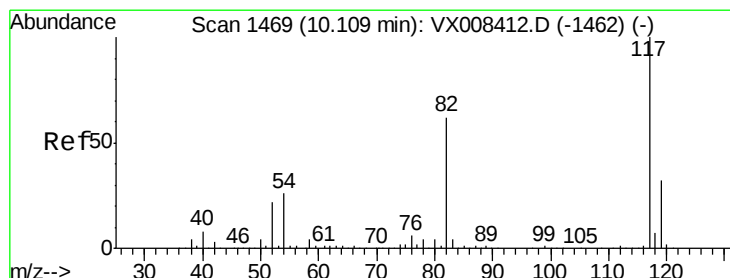
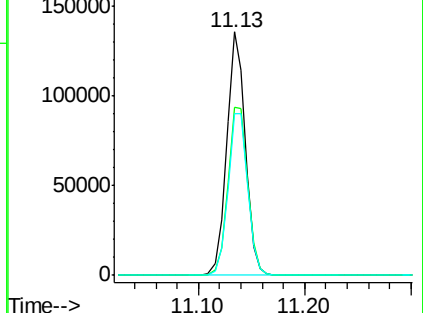
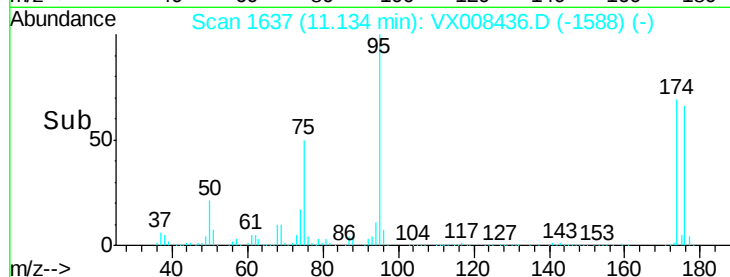


Abundance Ion 94.90 (94.60 to 95.60): VX008412.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008412.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008412.D (-1630) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

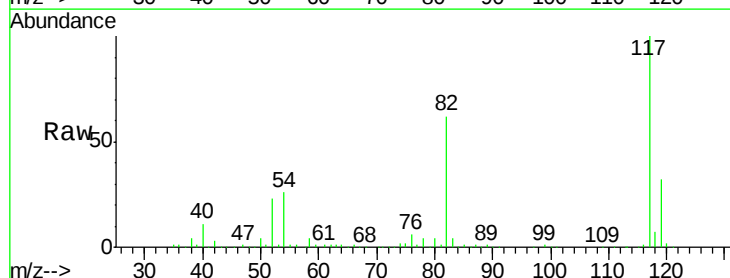
Tgt Ion: 117 Resp: 335576

Ion Ratio Lower Upper

117 100

82 62.3 49.4 74.2

119 31.9 25.4 38.0

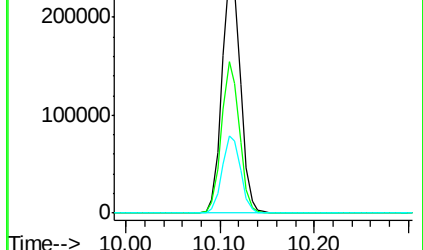
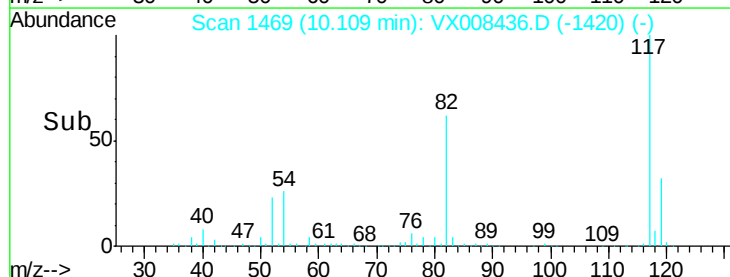


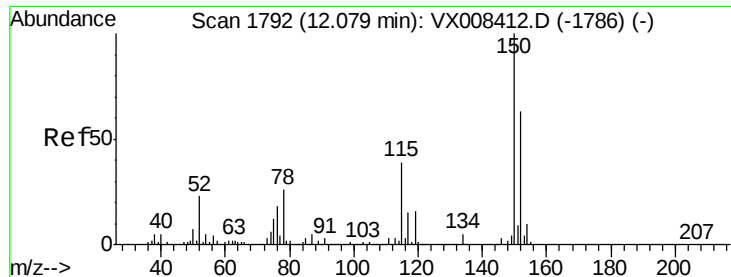
Abundance Ion 116.90 (116.60 to 117.60): VX008412.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008412.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008412.D (-1462) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

FB032119

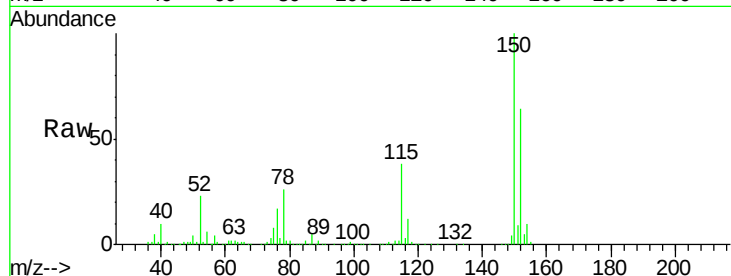
Tot Ion:152 Resp: 138154

Ion Ratio Lower Upper

152 100

115 61.3 43.5 130.5

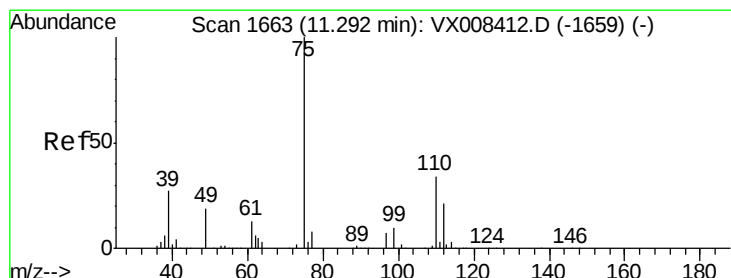
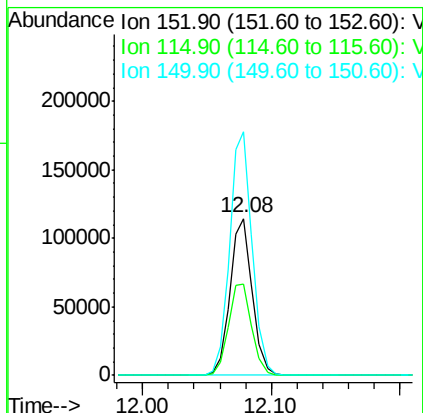
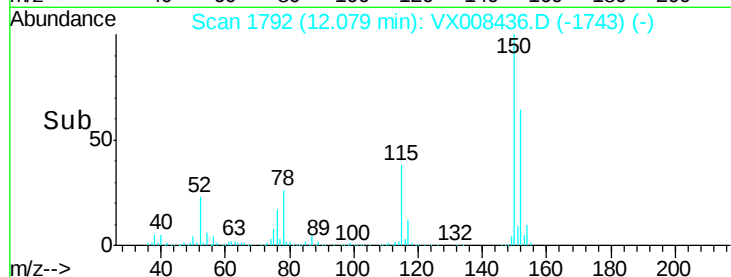
150 157.0 0.0 348.8



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: 20.643 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008436.D

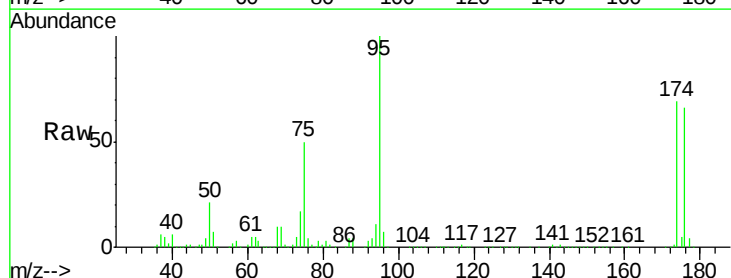
Acq: 26 Mar 2019 01:38

Tgt Ion: 75 Resp: 84787

Ion Ratio Lower Upper

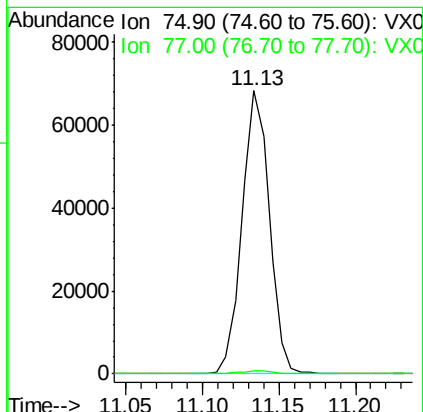
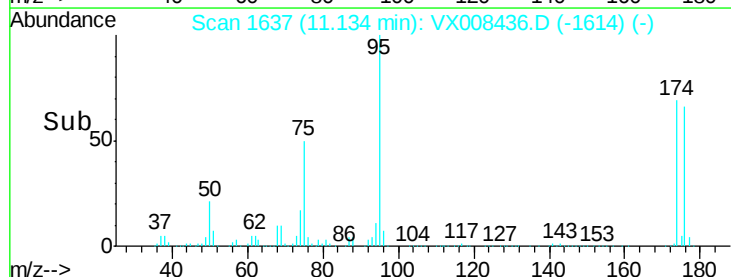
75 100

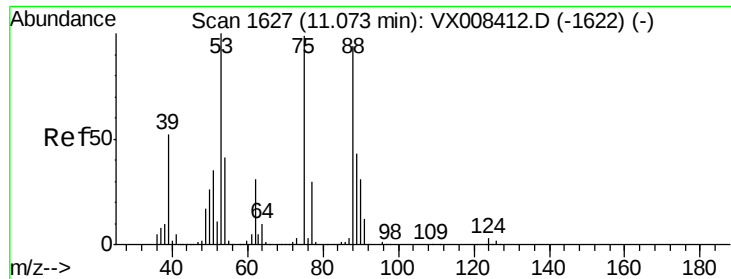
77 1.3 21.9 65.7#



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: 66.118 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008436.D

Acq: 26 Mar 2019 01:38

Instrument :

MSVOA_X

ClientSampleId :

FB032119

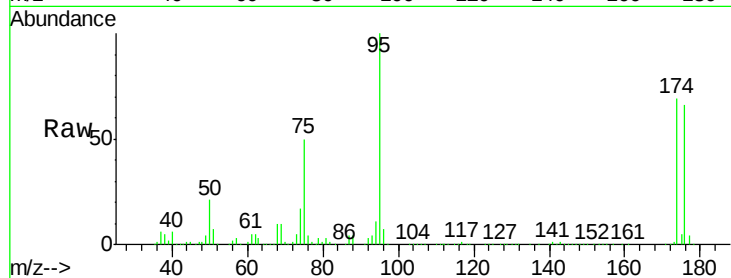
Tot Ion: 75 Resp: 84787

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#



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

