

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062419\
 Data File : VX010415.D
 Acq On : 24 Jun 2019 16:37
 Operator : JC/SP
 Sample : K3164-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BAT-B02

Quant Time: Jun 25 03:39:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	288108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	440021	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	399555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185097	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	135174	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
35) Dibromofluoromethane	5.50	113	133969	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
50) Toluene-d8	8.71	98	516953	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.13	95	175941	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	

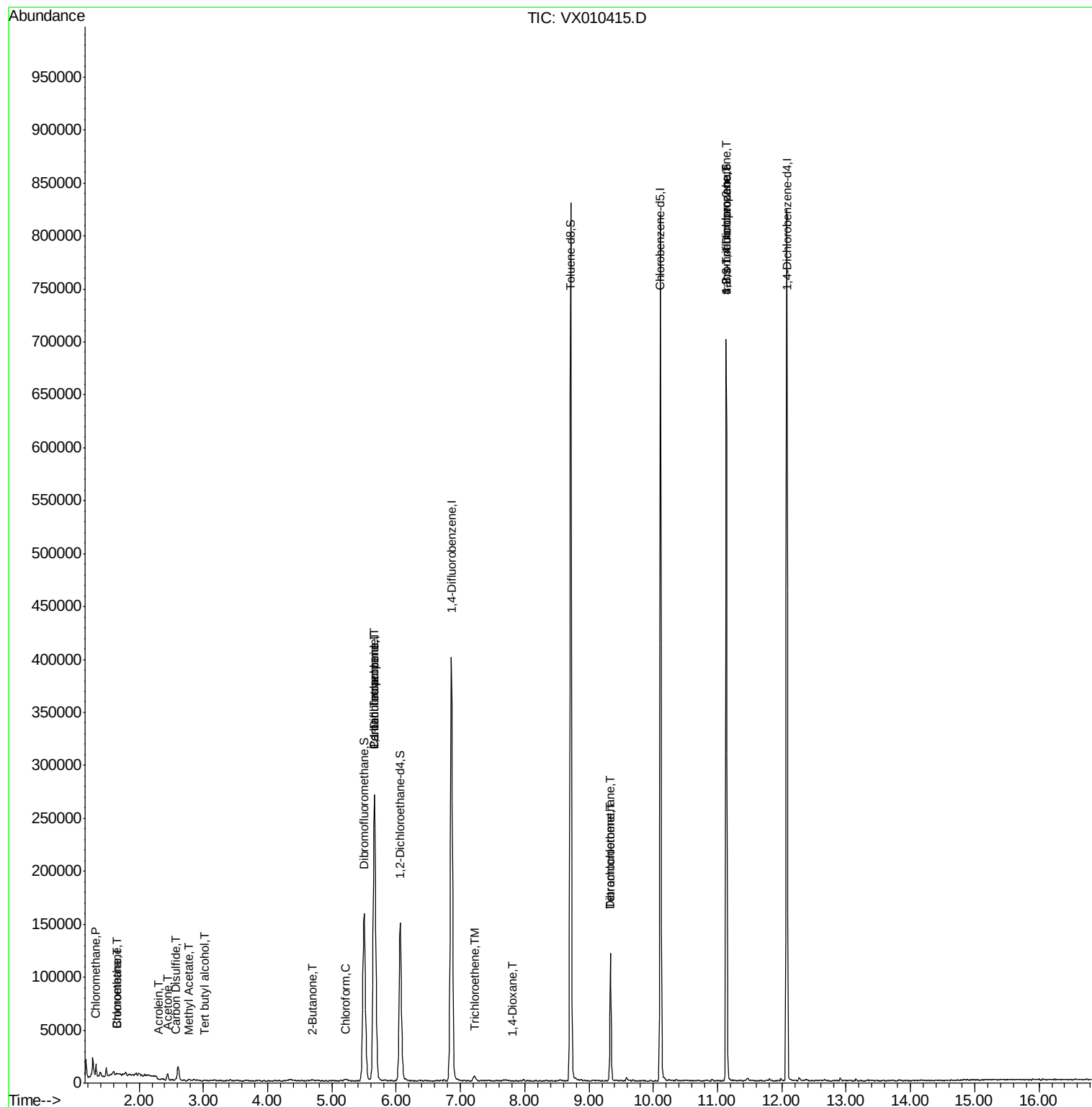
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	6893	2.955	ug/l	95
5) Bromomethane	1.65	94	325	0.261	ug/l	82
6) Chloroethane	1.67	64	525	0.348	ug/l #	49
11) Tert butyl alcohol	3.03	59	411	0.581	ug/l #	91
13) Acrolein	2.30	56	387	0.825	ug/l #	14
16) Acetone	2.45	43	6647	4.910	ug/l	88
17) Carbon Disulfide	2.57	76	1489	0.222	ug/l #	77
18) Methyl Acetate	2.78	43	934	0.346	ug/l #	73
25) 2-Butanone	4.69	43	603	0.304	ug/l #	79
30) Chloroform	5.21	83	1993	0.432	ug/l	85
36) 1,1-Dichloropropene	5.66	75	17273	4.940	ug/l #	49
38) Carbon Tetrachloride	5.67	117	25643	6.772	ug/l #	15
44) Trichloroethene	7.22	130	2123	0.651	ug/l	83
49) 1,4-Dioxane	7.81	88	21	0.264	ug/l #	1
60) Dibromochloromethane	9.34	129	20952	6.325	ug/l #	11
64) Tetrachloroethene	9.34	164	24351	7.535	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	81572	24.184	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	81572	56.419	ug/l #	16

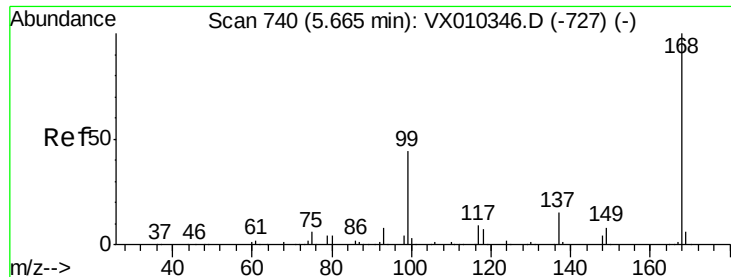
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampleId :

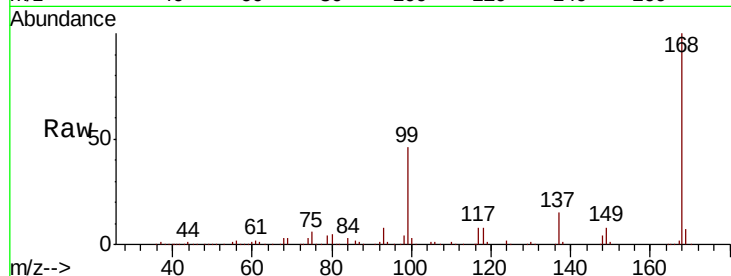
BAT-B02

Tot Ion:168 Resp: 288108

Ion Ratio Lower Upper

168 100

99 45.7 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

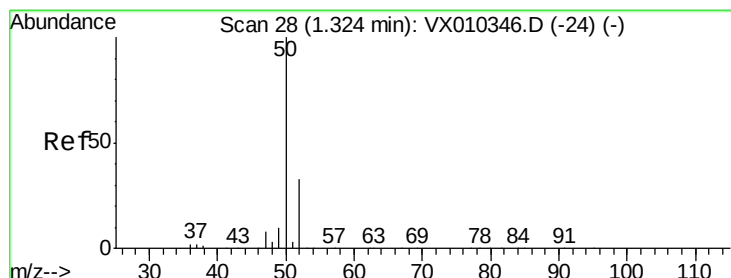
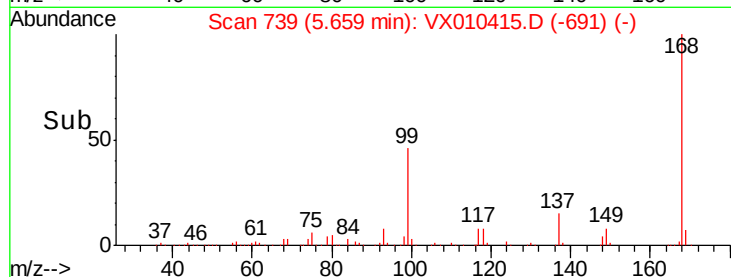
20000

0

5.66

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 2.955 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010415.D

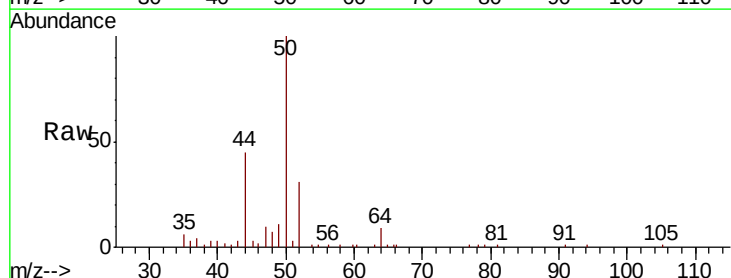
Acq: 24 Jun 2019 16:37

Tgt Ion: 50 Resp: 6893

Ion Ratio Lower Upper

50 100

52 30.4 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

8000

6000

4000

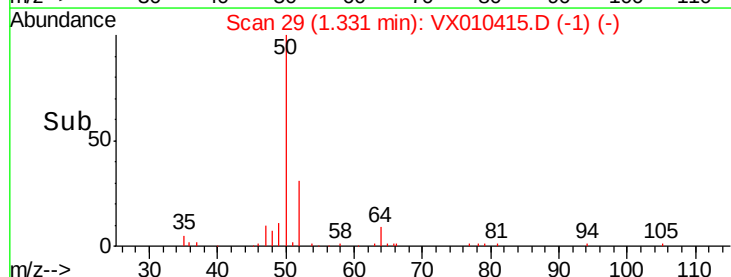
2000

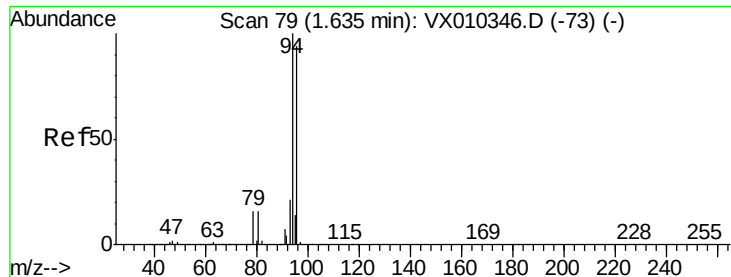
0

1.33

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.261 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampled :

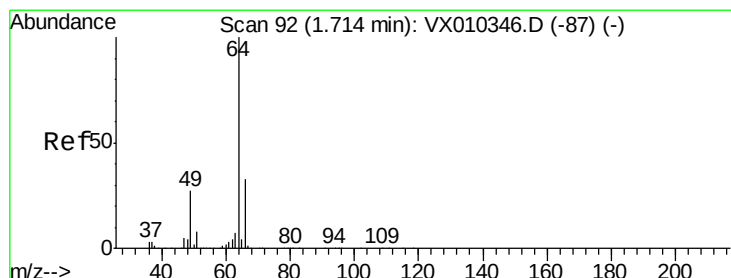
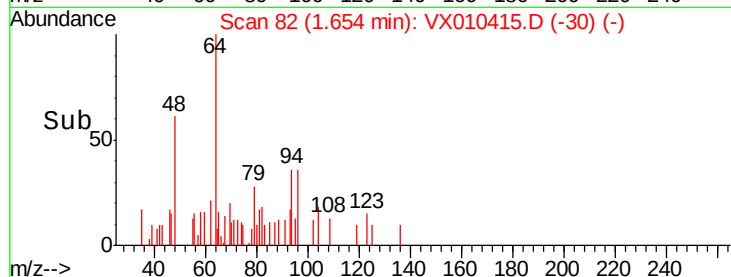
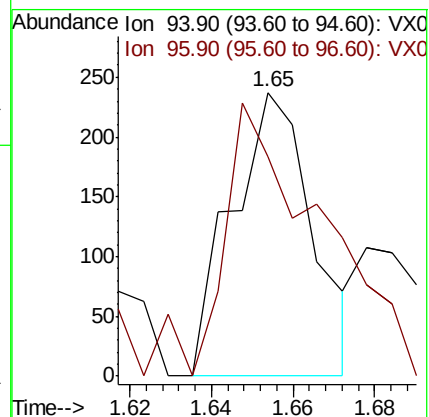
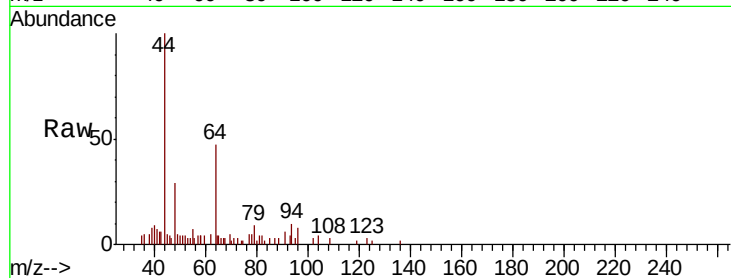
BAT-B02

Tot Ion: 94 Resp: 325

Ion Ratio Lower Upper

94 100

96 77.2 75.5 113.3



#6

Chloroethane

Concen: 0.348 ug/l

RT: 1.67 min Scan# 84

Delta R.T. -0.05 min

Lab File: VX010415.D

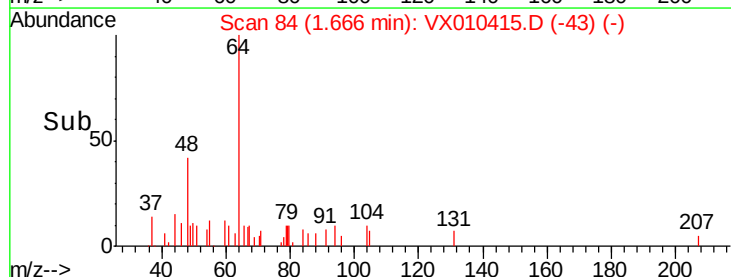
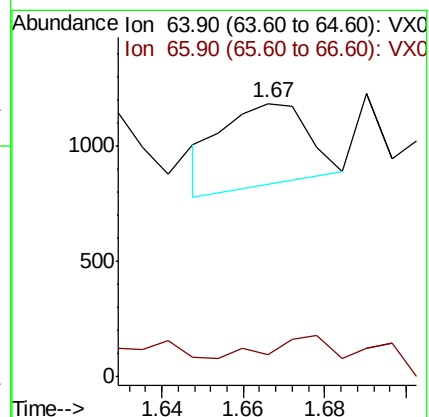
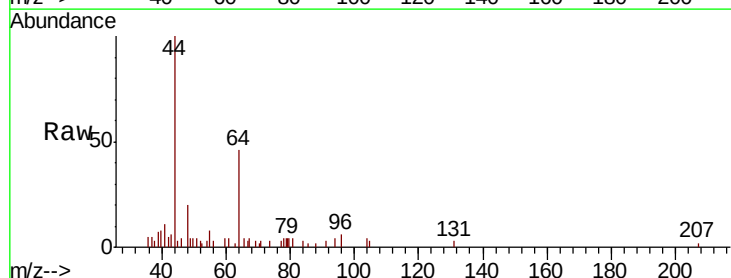
Acq: 24 Jun 2019 16:37

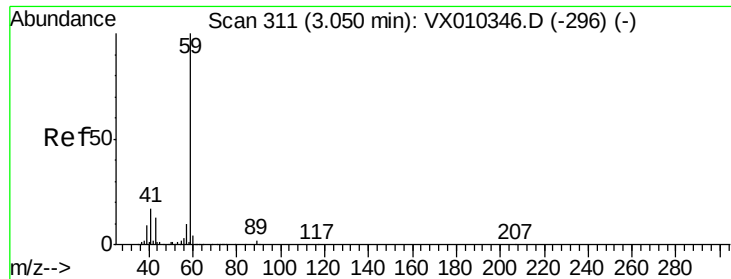
Tgt Ion: 64 Resp: 525

Ion Ratio Lower Upper

64 100

66 4.1 26.6 40.0#



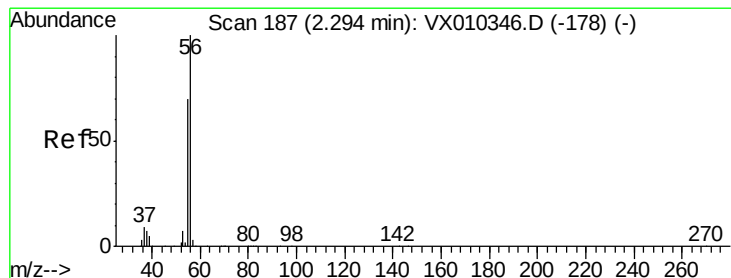
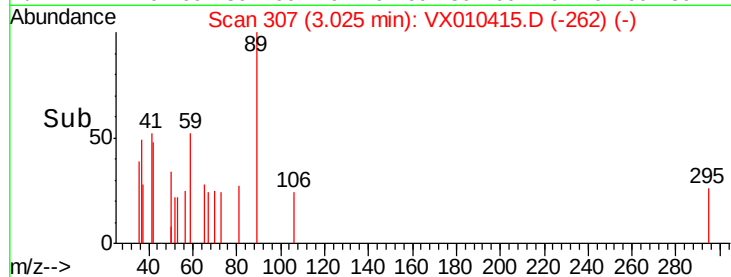
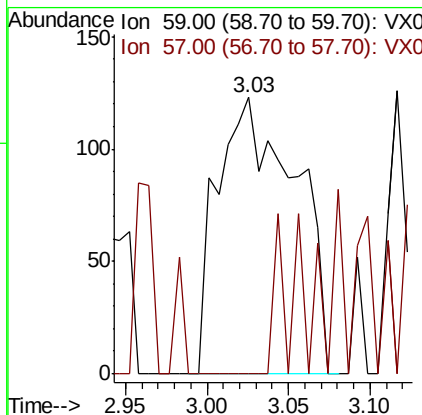
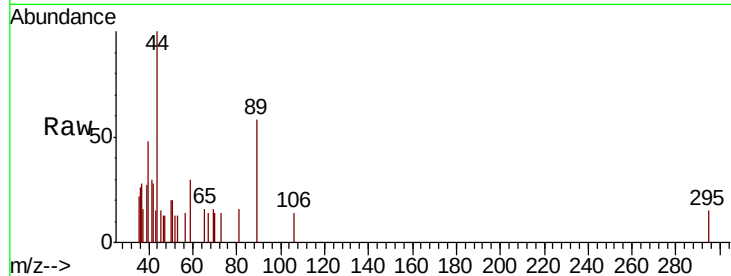


#11

Tert butyl alcohol
 Concen: 0.581 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.02 min
 Lab File: VX010415.D
 Acq: 24 Jun 2019 16:37

Instrument :
 MSVOA_X
 ClientSampled :
 BAT-B02

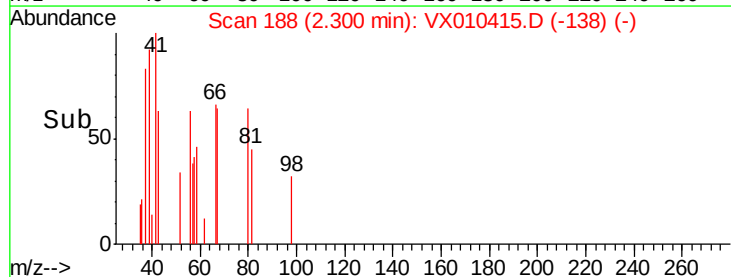
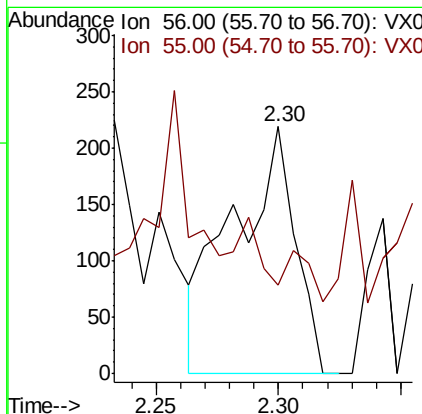
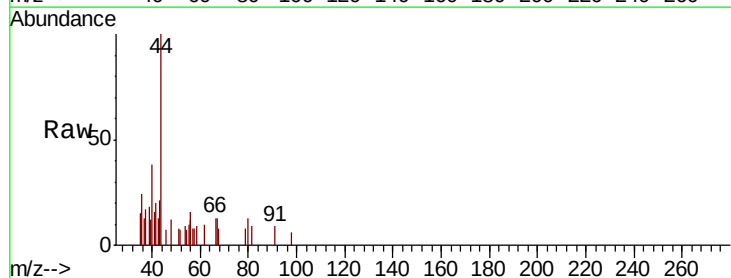
Tot Ion: 59 Resp: 411
 Ion Ratio Lower Upper
 59 100
 57 6.3 7.7 11.5#

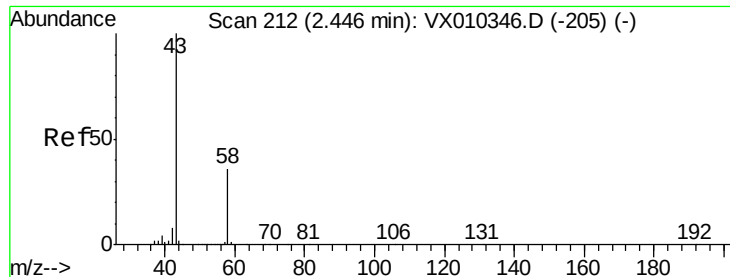


#13

Acrolein
 Concen: 0.825 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX010415.D
 Acq: 24 Jun 2019 16:37

Tgt Ion: 56 Resp: 387
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.9 85.3#





#16

Acetone

Concen: 4.910 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampled :

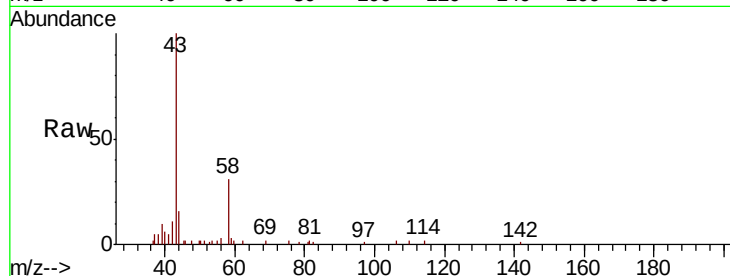
BAT-B02

Tot Ion: 43 Resp: 6647

Ion Ratio Lower Upper

43 100

58 29.3 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

4000

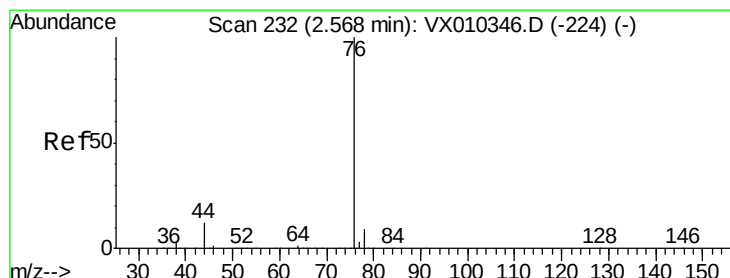
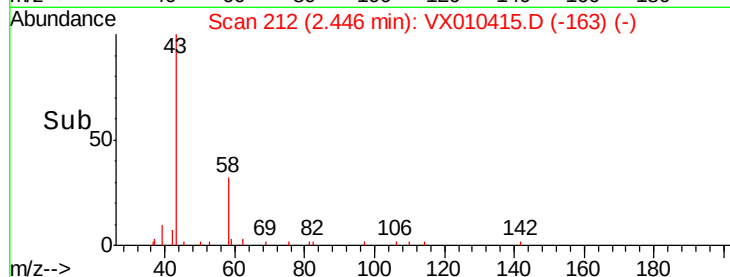
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.222 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010415.D

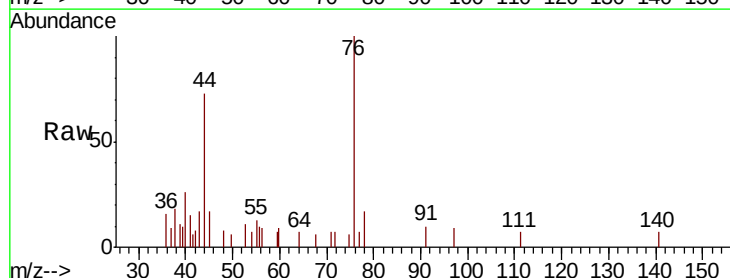
Acq: 24 Jun 2019 16:37

Tgt Ion: 76 Resp: 1489

Ion Ratio Lower Upper

76 100

78 17.5 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

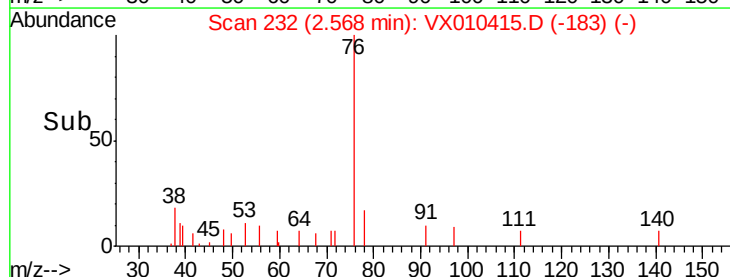
600

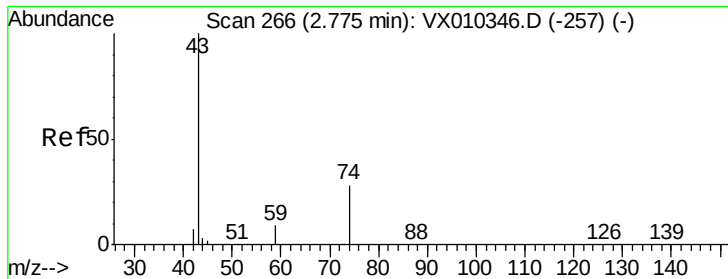
400

200

0

Time--> 2.55 2.60

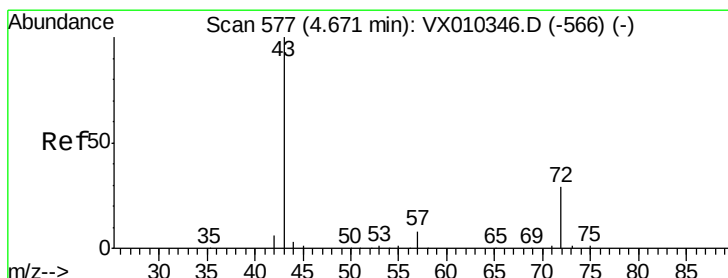
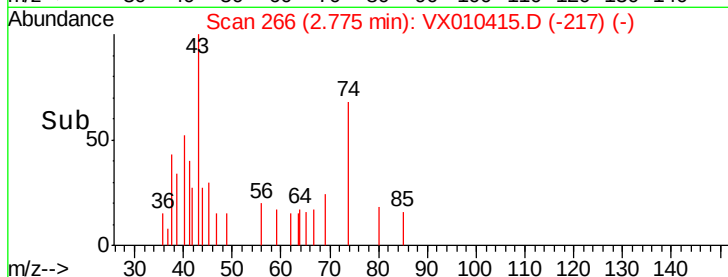
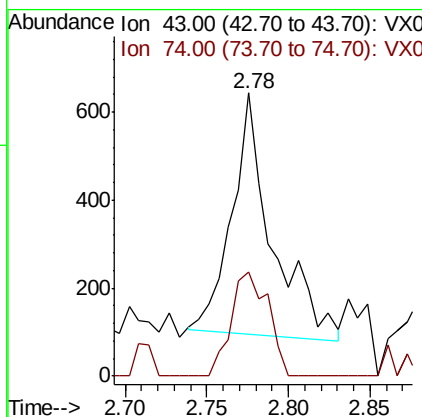
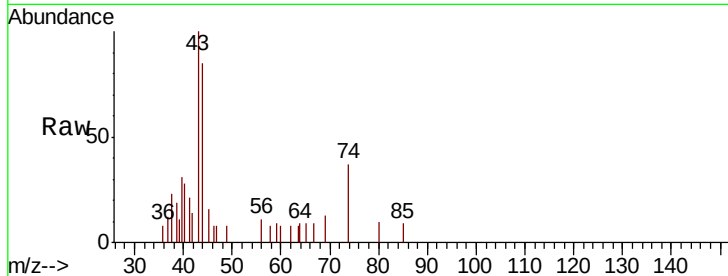




#18
Methvl Acetate
Concen: 0.346 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010415.D
Acq: 24 Jun 2019 16:37

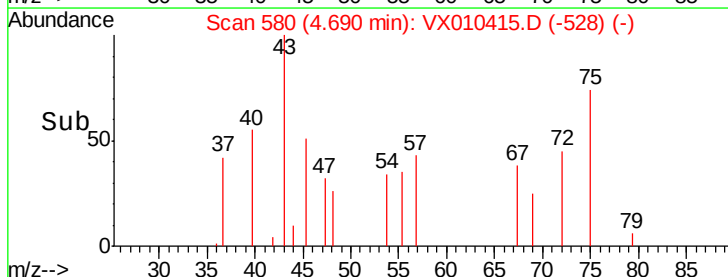
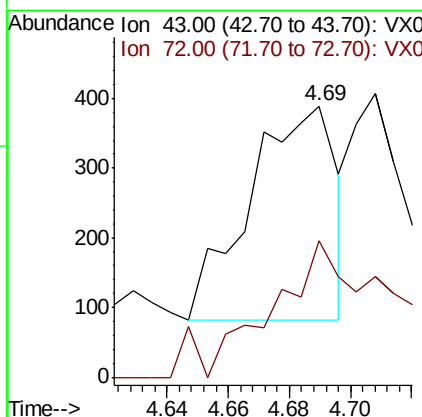
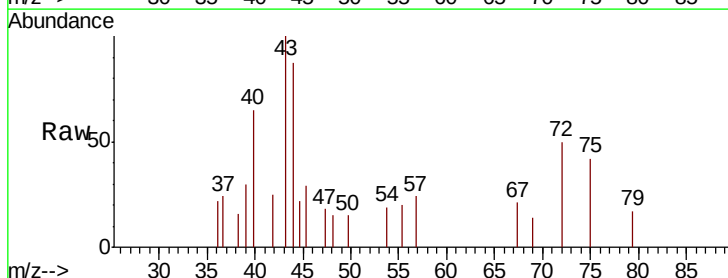
Instrument :
MSVOA_X
ClientSampled :
BAT-B02

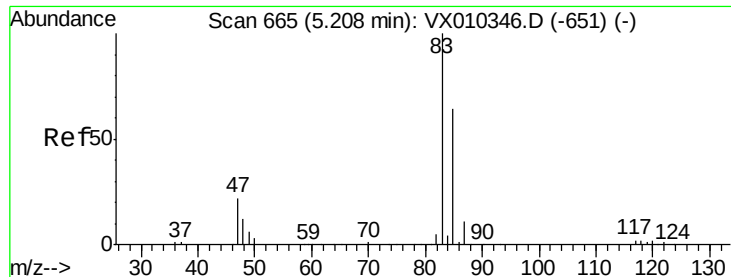
Tot Ion: 43 Resp: 934
Ion Ratio Lower Upper
43 100
74 40.3 21.3 31.9#



#25
2-Butanone
Concen: 0.304 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX010415.D
Acq: 24 Jun 2019 16:37

Tgt Ion: 43 Resp: 603
Ion Ratio Lower Upper
43 100
72 40.1 23.3 34.9#





#30

Chloroform

Concen: 0.432 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.01 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampleId :

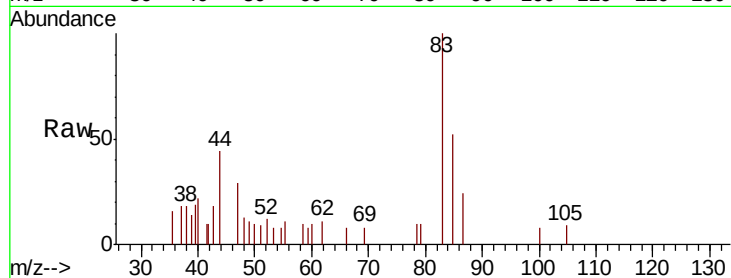
BAT-B02

Tot Ion: 83 Resp: 1993

Ion Ratio Lower Upper

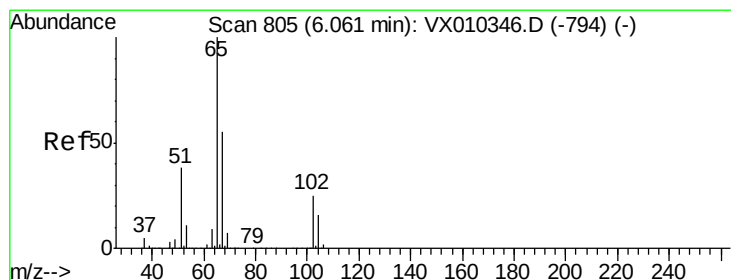
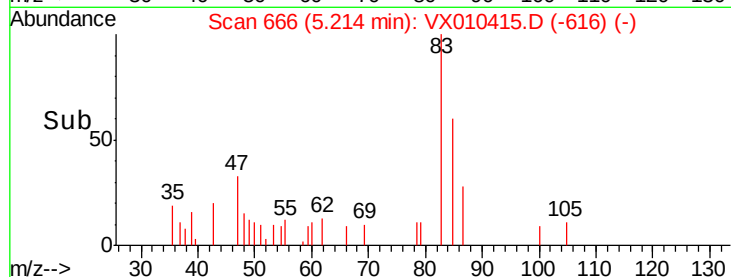
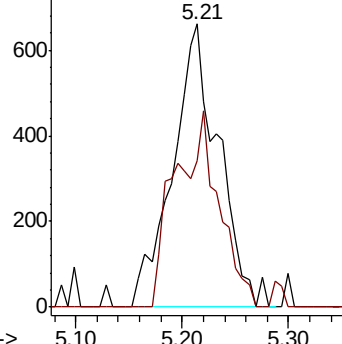
83 100

85 51.9 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.040 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010415.D

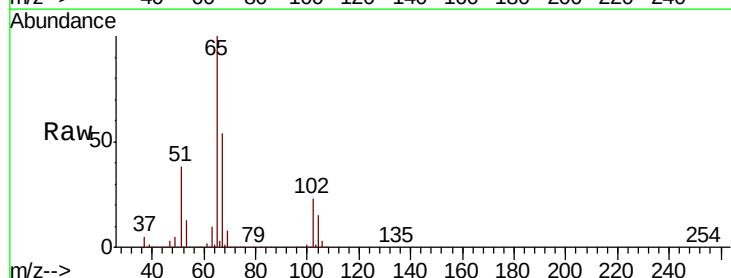
Acq: 24 Jun 2019 16:37

Tgt Ion: 65 Resp: 135174

Ion Ratio Lower Upper

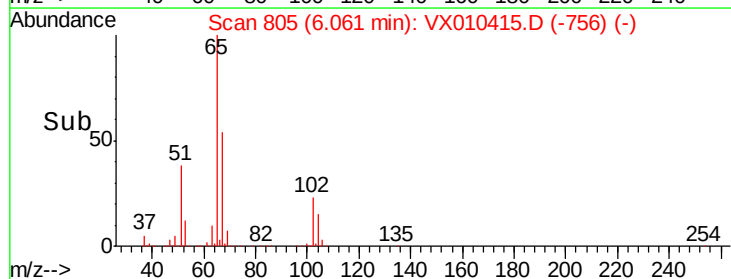
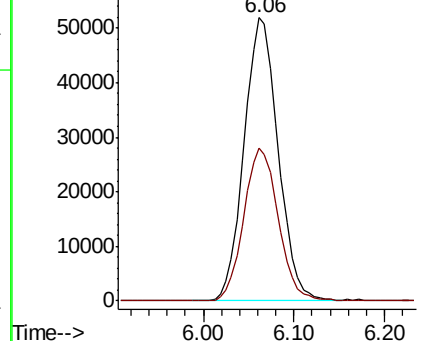
65 100

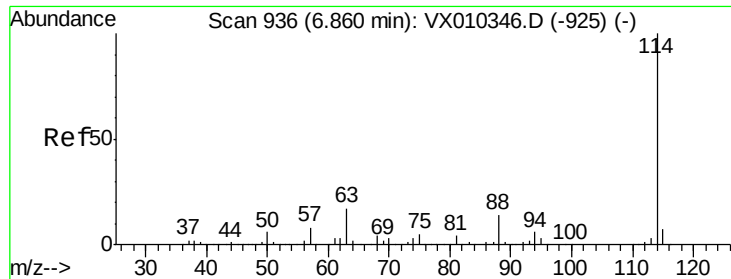
67 54.6 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

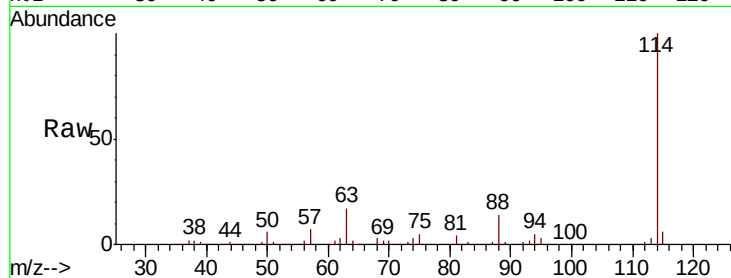




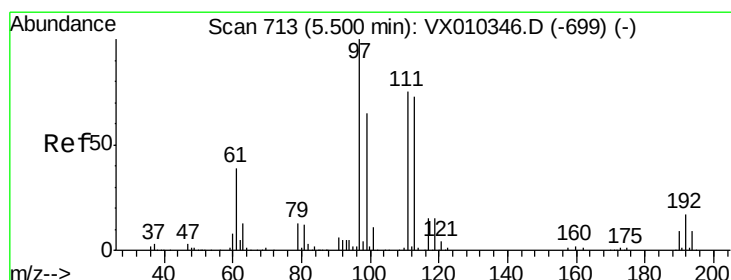
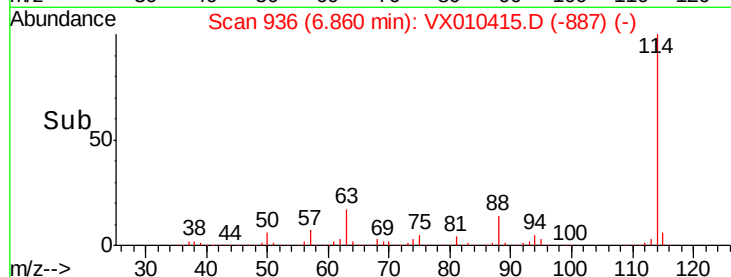
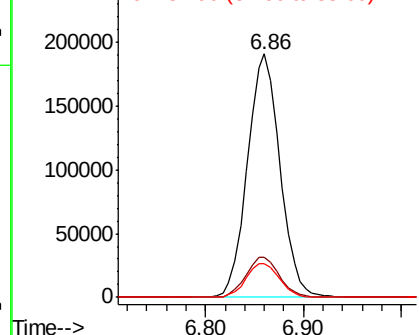
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX010415.D
Acq: 24 Jun 2019 16:37

Instrument :
MSVOA_X
ClientSampleId :
BAT-B02

Tot Ion:114 Resp: 440021
Ion Ratio Lower Upper
114 100
63 16.7 0.0 33.8
88 13.9 0.0 27.6

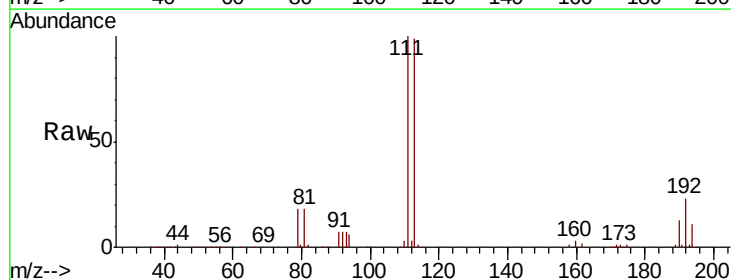


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

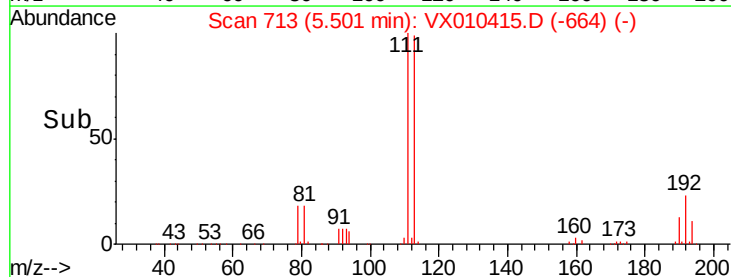
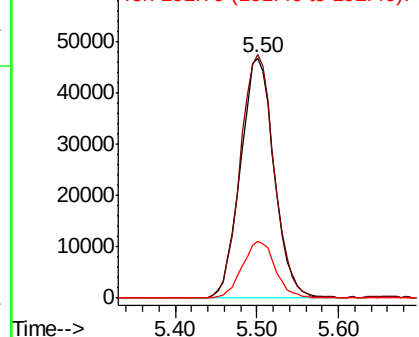


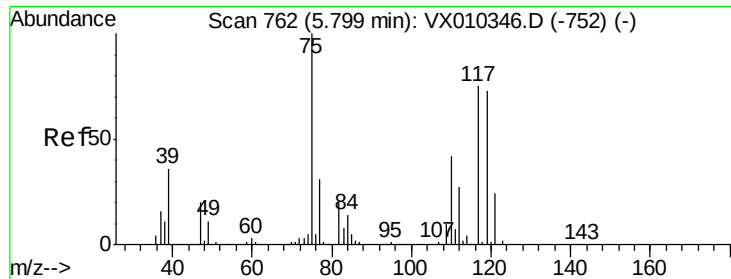
#35
Dibromofluoromethane
Concen: 49.762 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010415.D
Acq: 24 Jun 2019 16:37

Tgt Ion:113 Resp: 133969
Ion Ratio Lower Upper
113 100
111 102.2 81.2 121.8
192 23.4 18.6 27.8



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

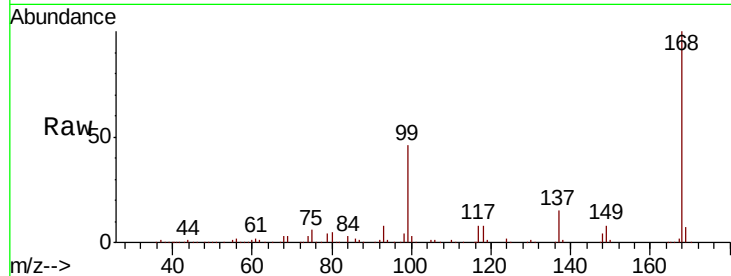




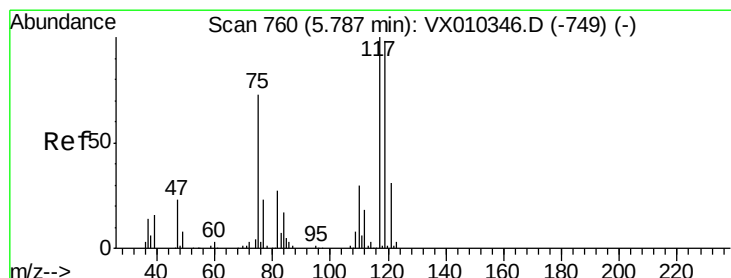
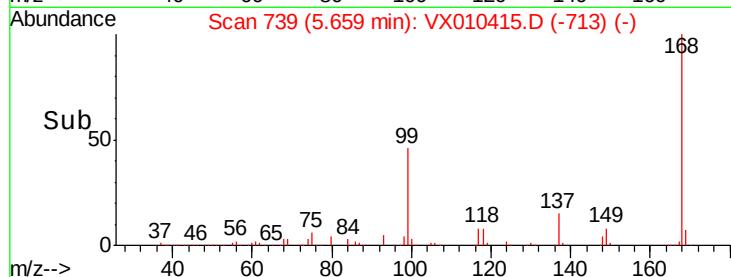
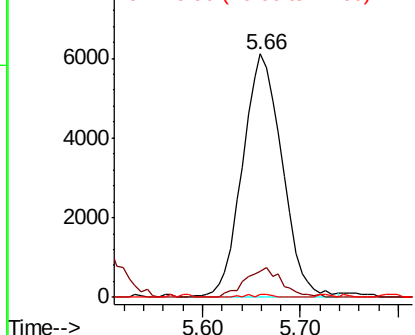
#36
 1,1-Dichloropropene
 Concen: 4.940 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010415.D
 Acq: 24 Jun 2019 16:37

Instrument :
 MSVOA_X
 ClientSampleId :
 BAT-B02

Tot Ion: 75 Resp: 17273
 Ion Ratio Lower Upper
 75 100
 110 11.6 20.8 62.2#
 77 0.6 25.4 38.0#

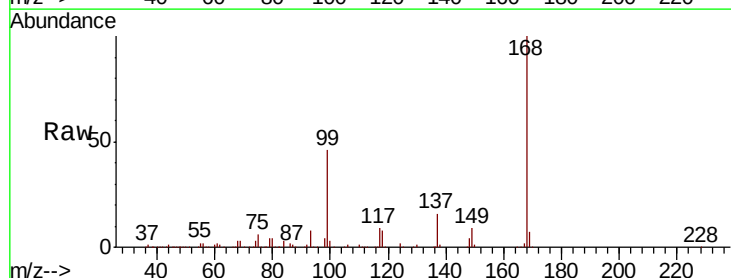


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

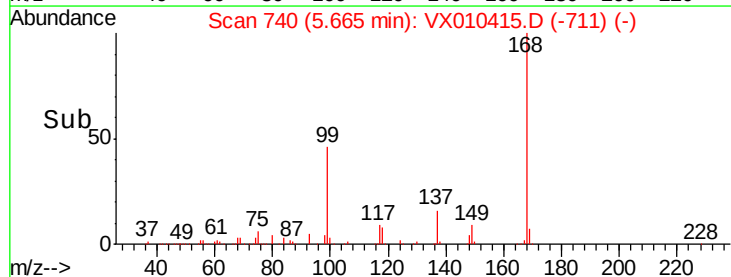
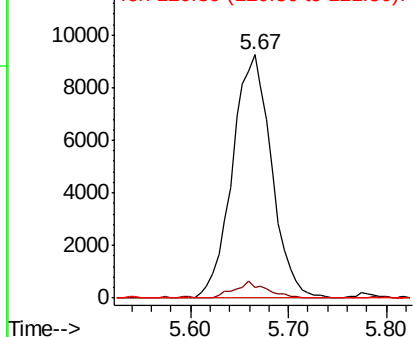


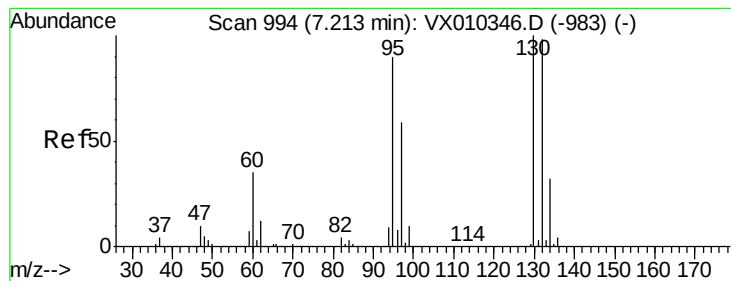
#38
 Carbon Tetrachloride
 Concen: 6.772 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010415.D
 Acq: 24 Jun 2019 16:37

Tgt Ion:117 Resp: 25643
 Ion Ratio Lower Upper
 117 100
 119 4.6 78.2 117.4#
 121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.651 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampleId :

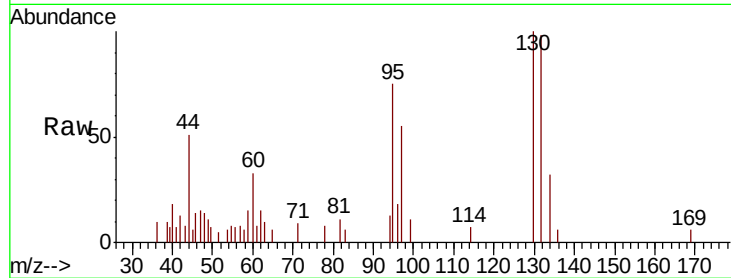
BAT-B02

Tot Ion:130 Resp: 2123

Ion Ratio Lower Upper

130 100

95 74.8 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

1000

800

600

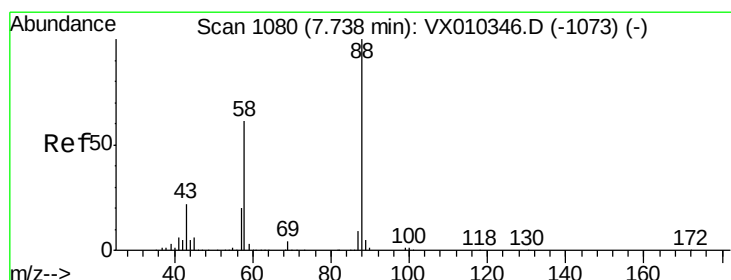
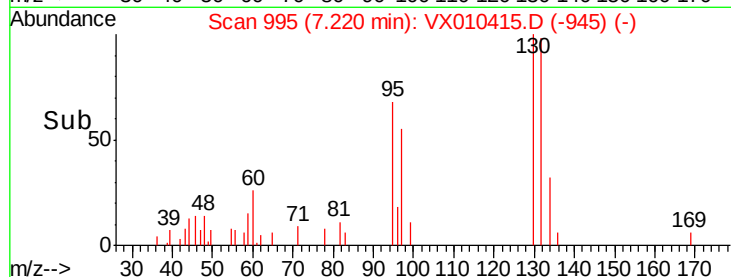
400

200

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 0.264 ug/l

RT: 7.81 min Scan# 1091

Delta R.T. 0.07 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

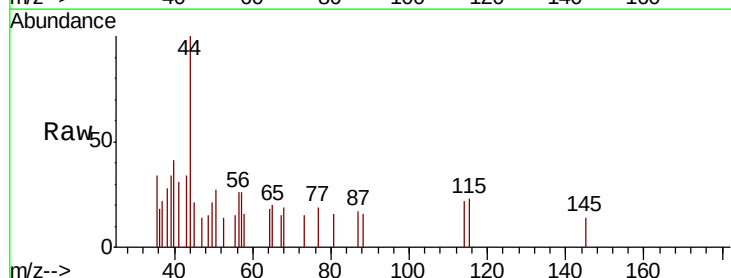
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 1304.8 20.2 30.2#

58 0.0 49.5 74.3#



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

150

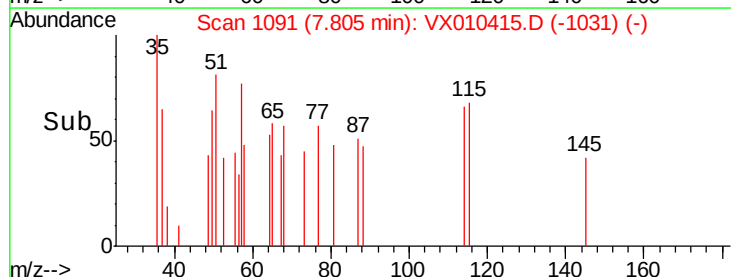
100

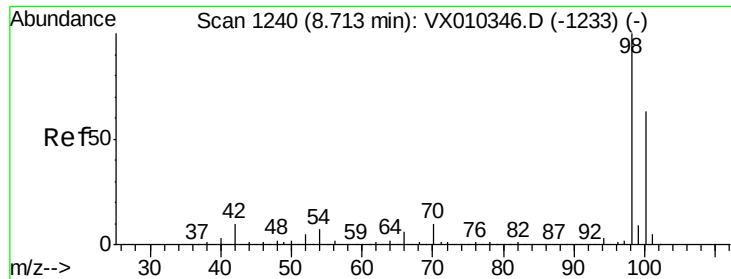
50

0

7.79 7.80 7.81 7.82

Time-->

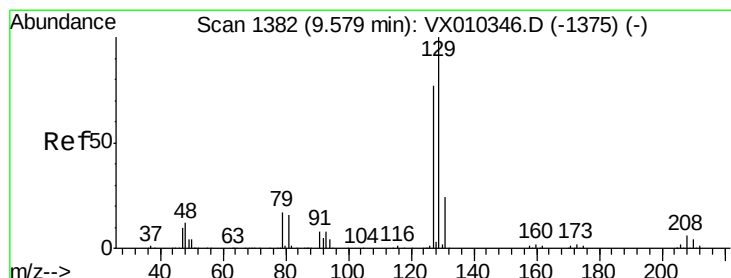
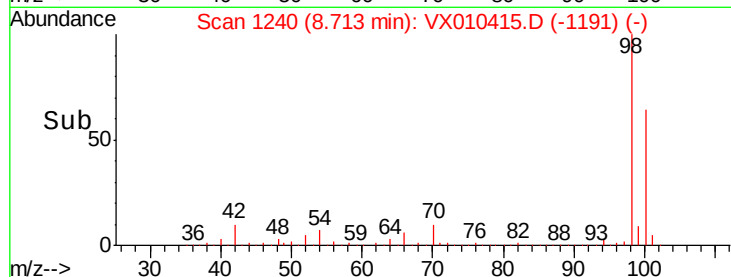
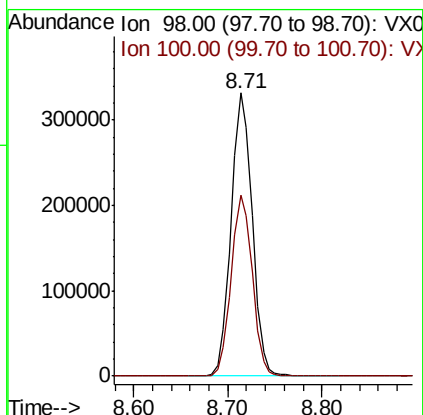
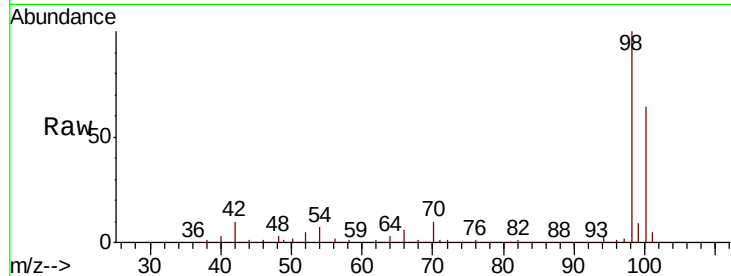




#50
Toluene-d8
Concen: 50.190 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010415.D
Acq: 24 Jun 2019 16:37

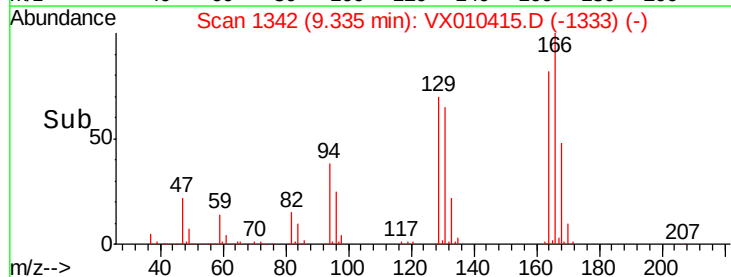
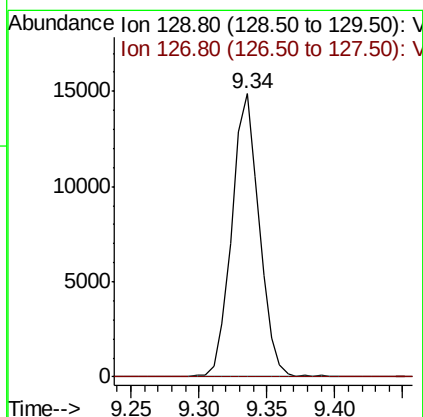
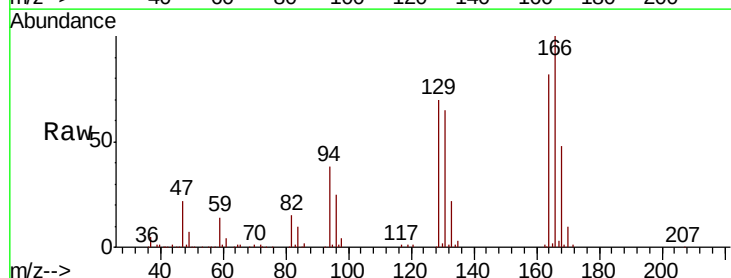
Instrument :
MSVOA_X
ClientSampleId :
BAT-B02

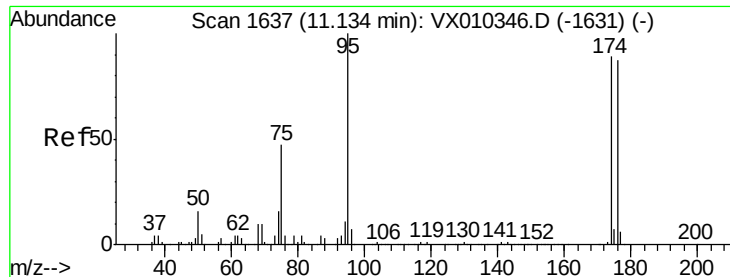
Tot Ion: 98 Resp: 516953
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



#60
Dibromochloromethane
Concen: 6.325 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX010415.D
Acq: 24 Jun 2019 16:37

Tgt Ion: 129 Resp: 20952
Ion Ratio Lower Upper
129 100
127 0.1 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 47.315 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampled :

BAT-B02

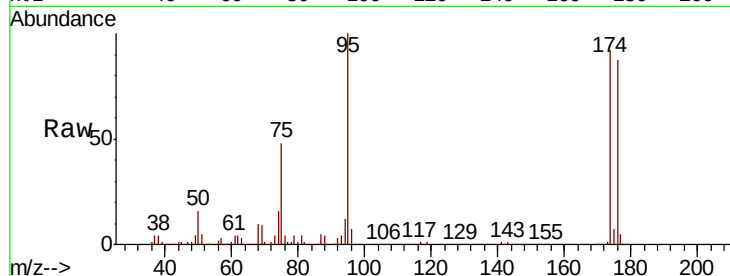
Tot Ion: 95 Resp: 175941

Ion Ratio Lower Upper

95 100

174 94.5 0.0 187.6

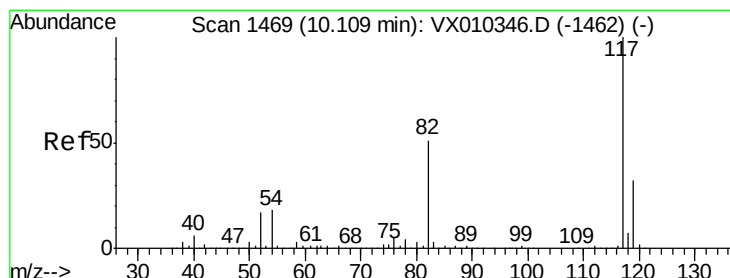
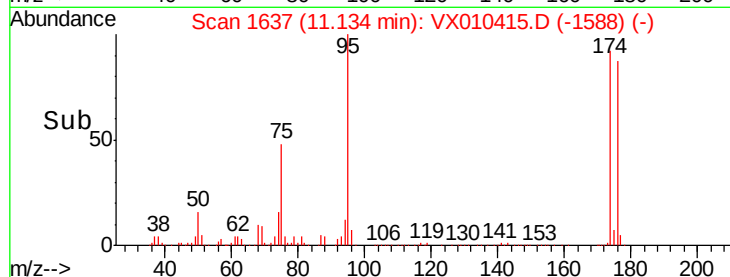
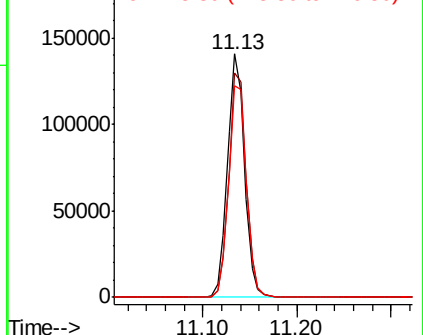
176 91.5 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010415.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010415.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010415.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

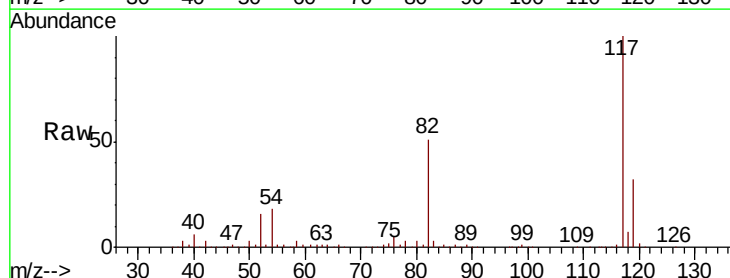
Tgt Ion: 117 Resp: 399555

Ion Ratio Lower Upper

117 100

82 51.4 41.2 61.8

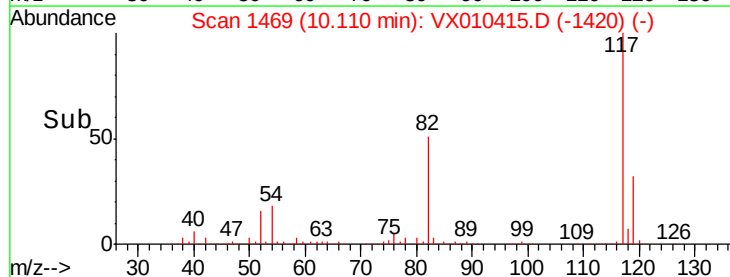
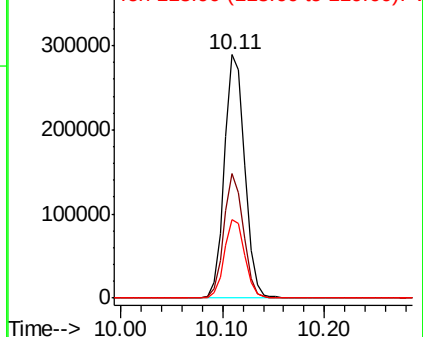
119 32.2 25.5 38.3

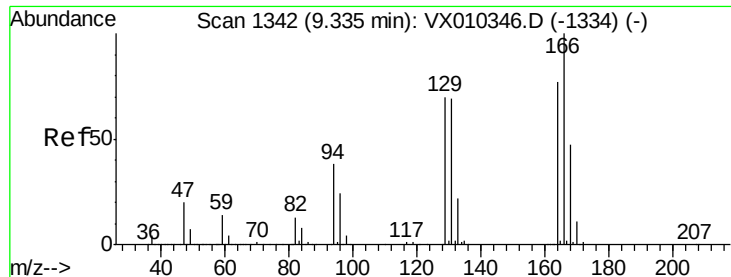


Abundance Ion 116.90 (116.60 to 117.60): VX010415.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010415.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010415.D (-1420) (-)





#64

Tetrachloroethene

Concen: 7.535 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampleId :

BAT-B02

Tot Ion:164 Resp: 24351

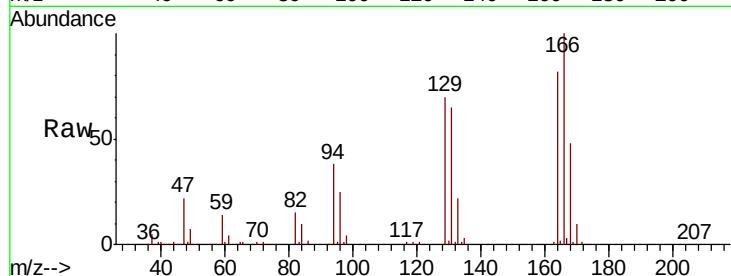
Ion Ratio Lower Upper

164 100

166 121.5 103.6 155.4

129 85.1 73.0 109.4

131 79.2 71.0 106.4

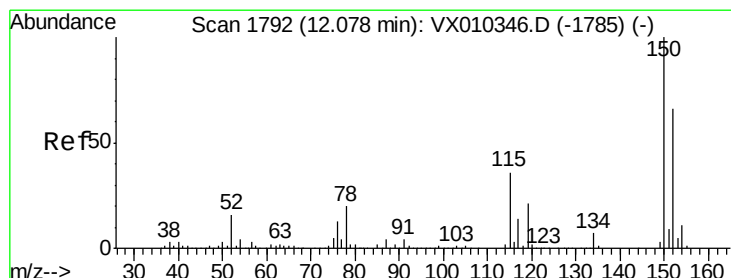
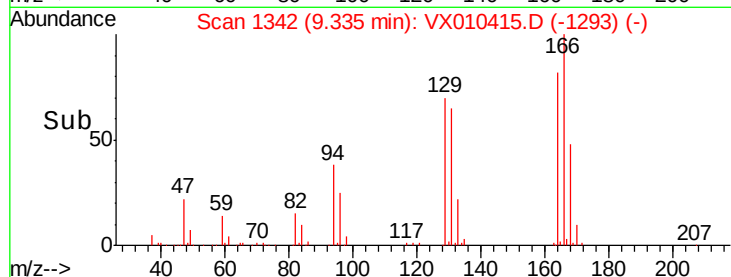
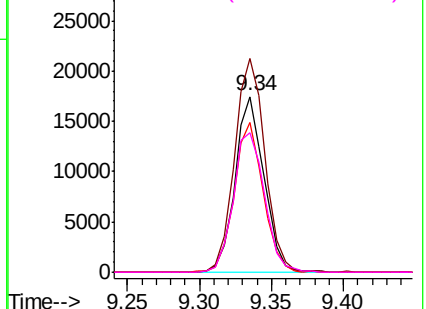


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

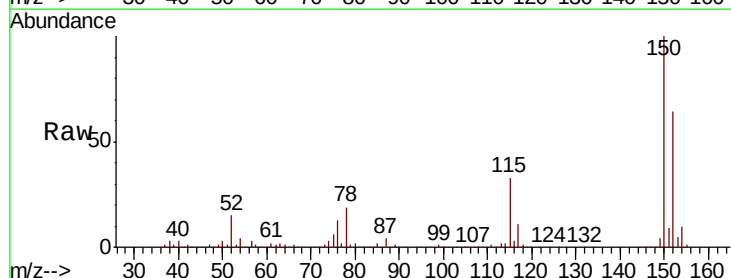
Tgt Ion:152 Resp: 185097

Ion Ratio Lower Upper

152 100

115 54.5 38.6 115.7

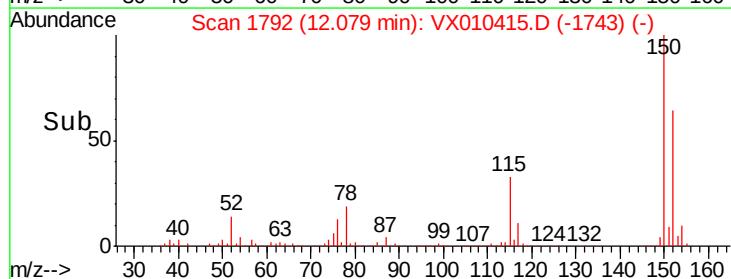
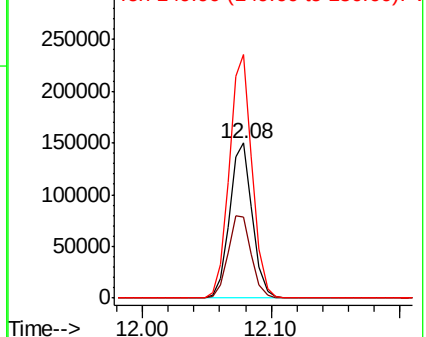
150 157.7 0.0 347.4

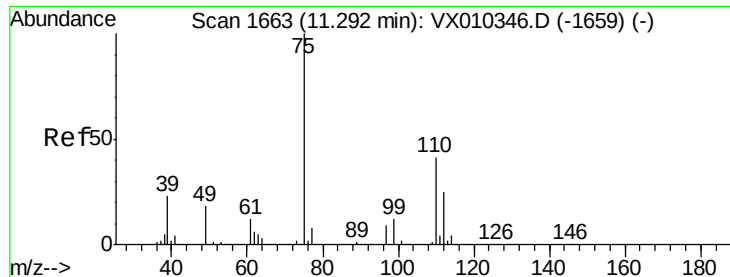


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.184 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Instrument :

MSVOA_X

ClientSampleId :

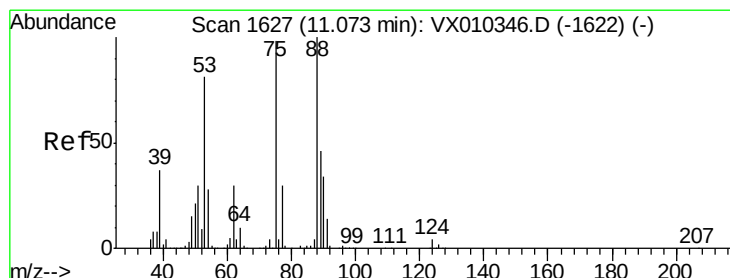
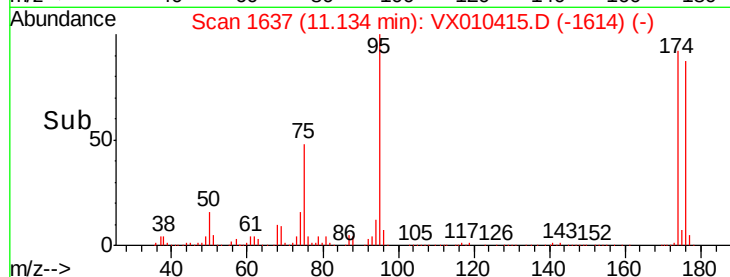
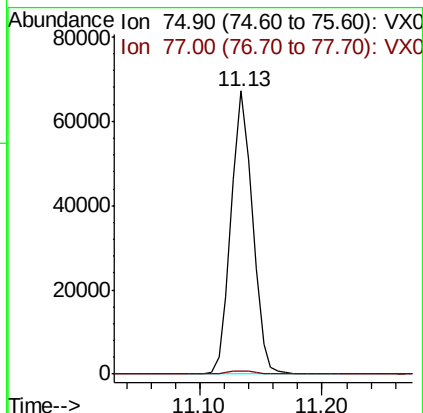
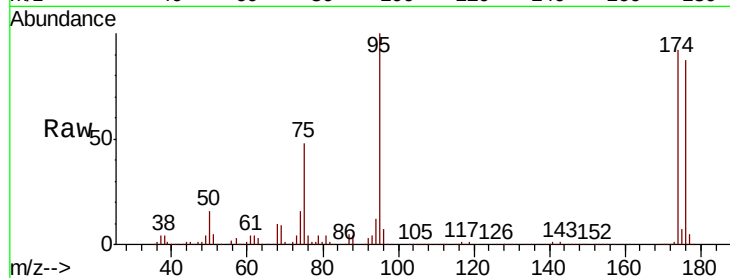
BAT-B02

Tot Ion: 75 Resp: 81572

Ion Ratio Lower Upper

75 100

77 1.3 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.419 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010415.D

Acq: 24 Jun 2019 16:37

Tgt Ion: 75 Resp: 81572

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#

