

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071818\
 Data File : VX003440.D
 Acq On : 18 Jul 2018 11:54
 Operator : JC/MD
 Sample : VX0718WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 18 13:53:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	288434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	404500	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	384466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	222021	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	172592	45.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.38%	
35) Dibromofluoromethane	5.51	113	157486	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
50) Toluene-d8	8.71	98	588840	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.14	95	206249	47.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.66%	

Target Compounds

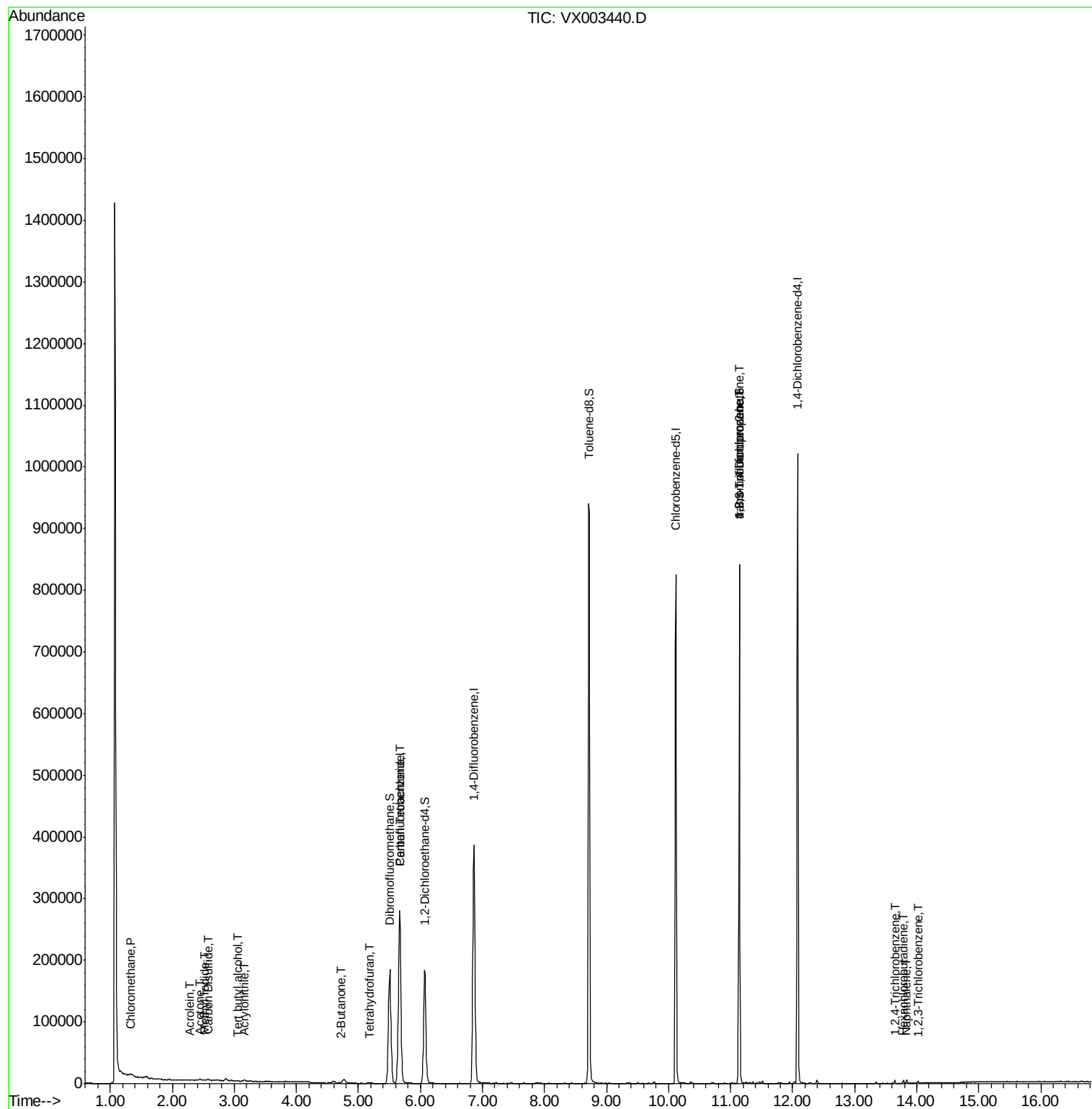
						Qvalue
3) Chloromethane	1.33	50	725	0.21	ug/l	100
5) Bromomethane	1.61	94	79	Below	Cal #	3
6) Chloroethane	1.68	64	21	Below	Cal #	43
10) Methyl Iodide	2.53	142	1159	0.34	ug/l	95
11) Tert butyl alcohol	3.06	59	227	0.27	ug/l #	58
13) Acrolein	2.29	56	355	0.87	ug/l #	24
15) Acrylonitrile	3.15	53	757	0.39	ug/l #	65
16) Acetone	2.45	43	1757	1.12	ug/l	95
17) Carbon Disulfide	2.57	76	3661	0.44	ug/l #	90
20) Methylene Chloride	2.86	84	1465	Below	Cal #	83
25) 2-Butanone	4.71	43	623	0.25	ug/l #	52
29) Tetrahydrofuran	5.17	42	923	0.59	ug/l #	88
38) Carbon Tetrachloride	5.67	117	24603	5.90	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	96808	24.09	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	96808	78.25	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.65	180	1427	0.28	ug/l	91
94) Hexachlorobutadiene	13.79	225	886	0.36	ug/l	97
95) Naphthalene	13.84	128	3315	0.23	ug/l	98
96) 1,2,3-Trichlorobenzene	14.02	180	1142	0.22	ug/l	97

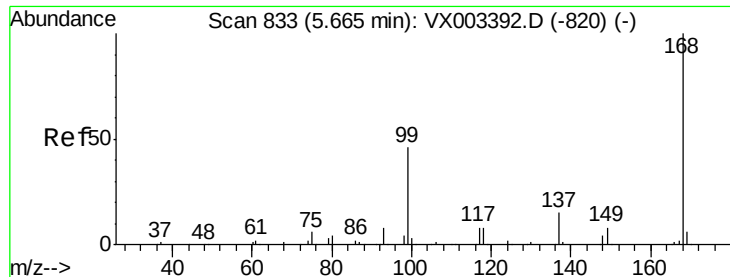
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

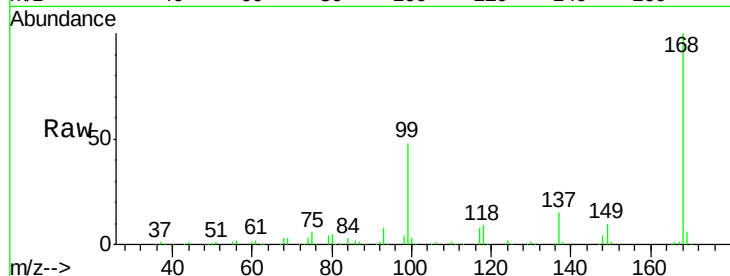
ClientSampleId :

Tot Ion:168 Resp: 288434

Ion Ratio Lower Upper

168 100

99 48.2 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

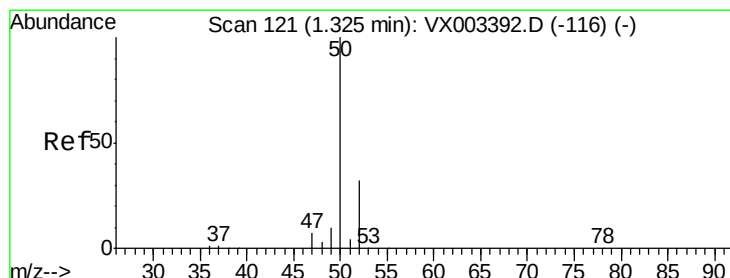
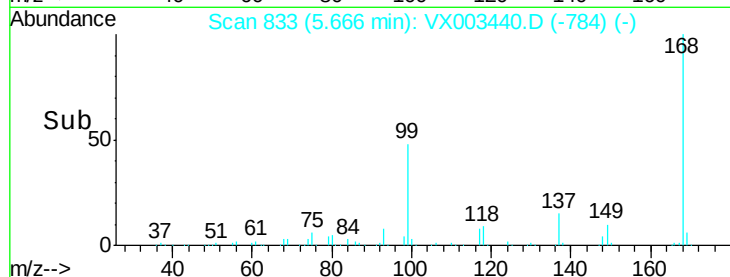
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003440.D

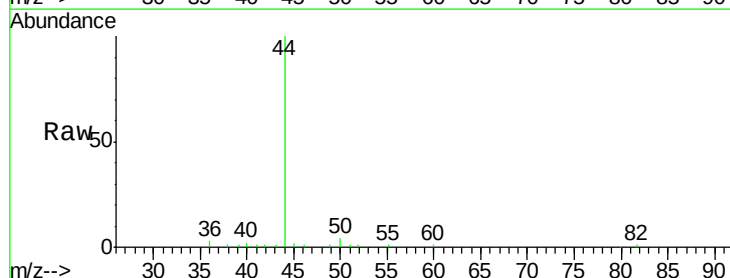
Acq: 18 Jul 2018 11:54

Tgt Ion: 50 Resp: 725

Ion Ratio Lower Upper

50 100

52 32.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

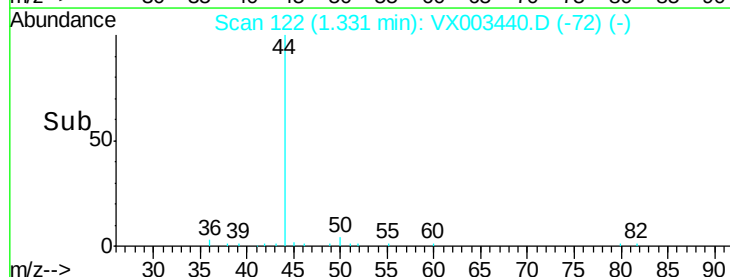
300

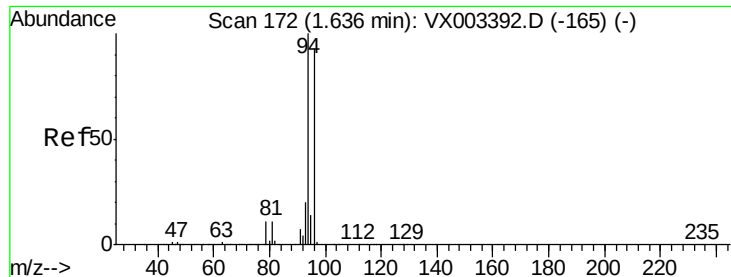
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

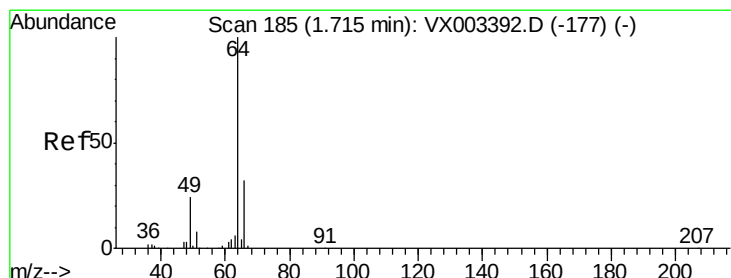
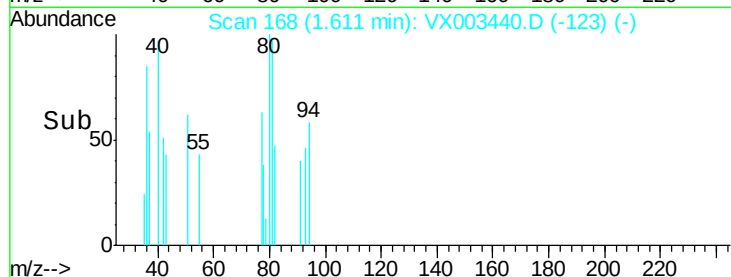
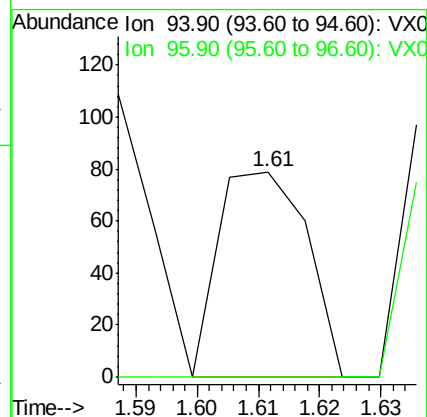
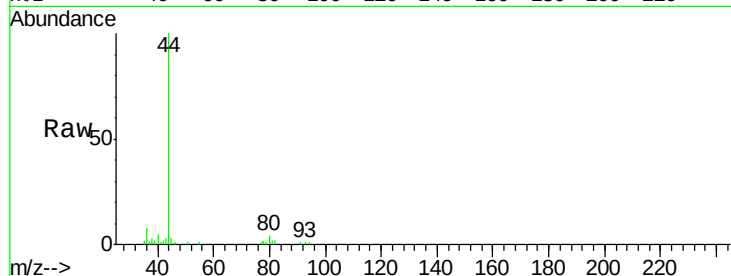
ClientSampleId :

Tot Ion: 94 Resp: 79

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 179

Delta R.T. -0.04 min

Lab File: VX003440.D

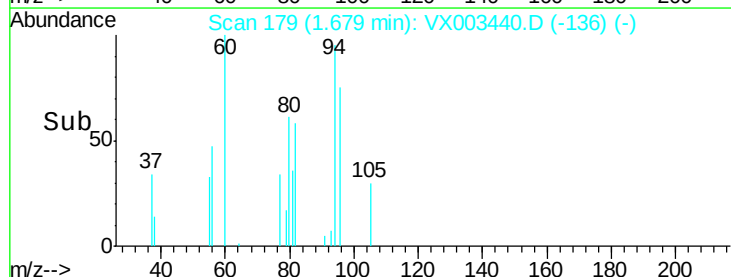
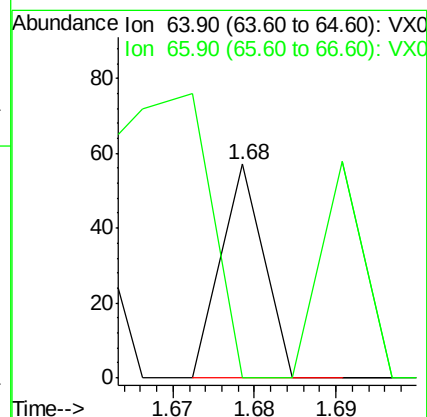
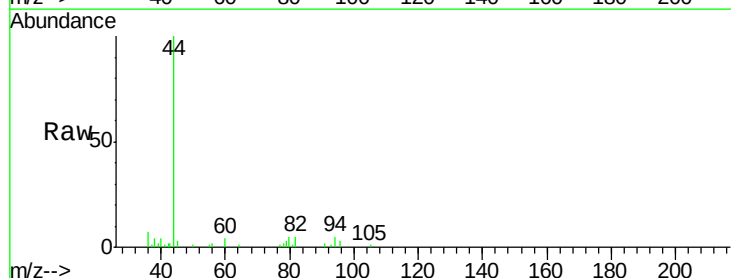
Acq: 18 Jul 2018 11:54

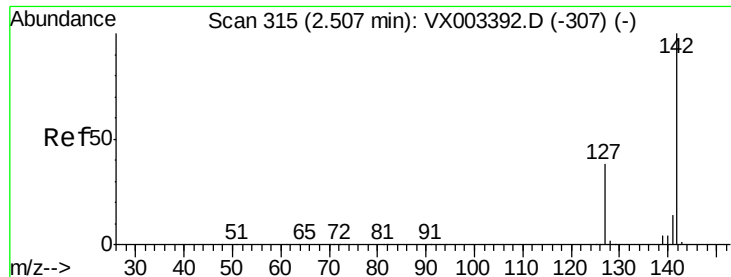
Tgt Ion: 64 Resp: 21

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

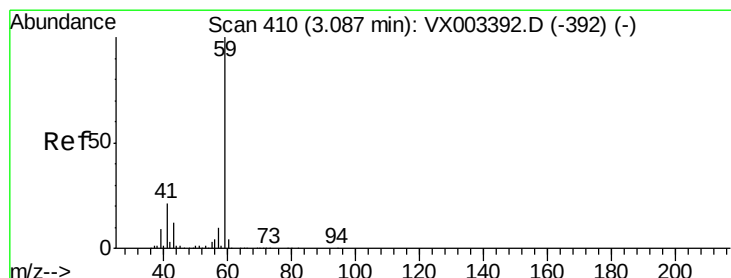
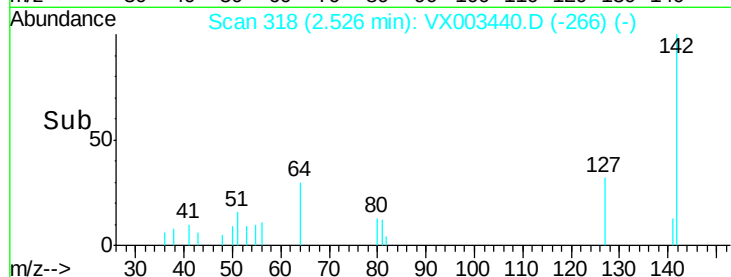
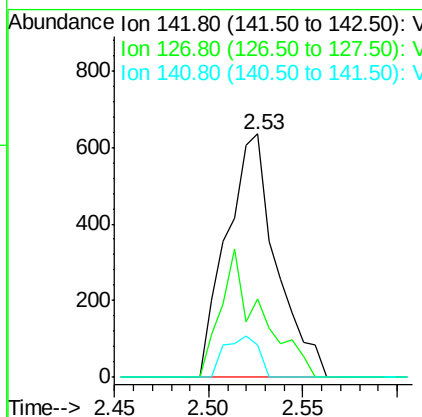
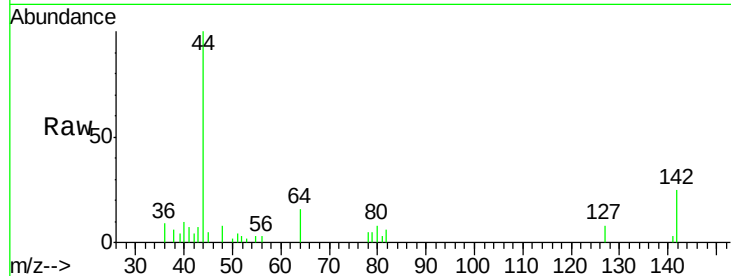




#10
Methvl Iodide
Concen: 0.34 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

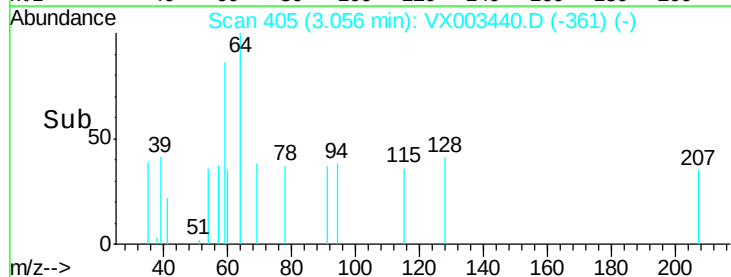
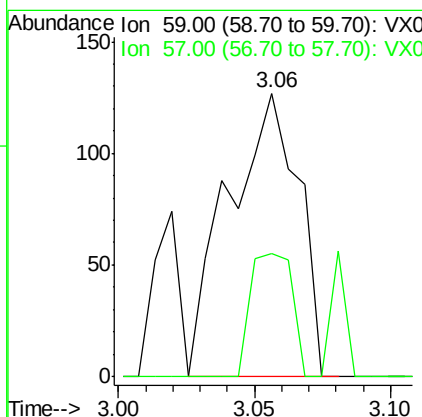
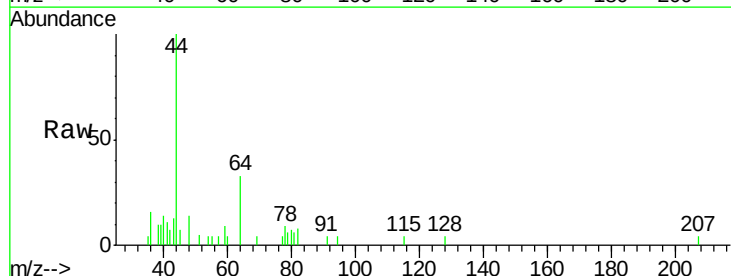
Instrument :
MSVOA_X
ClientSampleId :

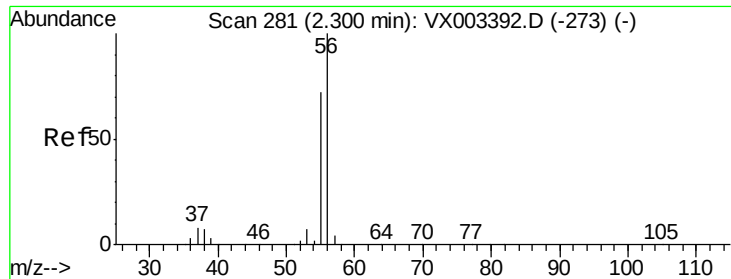
Tot Ion:142 Resp: 1159
Ion Ratio Lower Upper
142 100
127 42.6 36.6 55.0
141 11.5 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.27 ug/l
RT: 3.06 min Scan# 405
Delta R.T. -0.03 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

Tgt Ion: 59 Resp: 227
Ion Ratio Lower Upper
59 100
57 26.0 8.2 12.2#





#13

Acrolein

Concen: 0.87 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

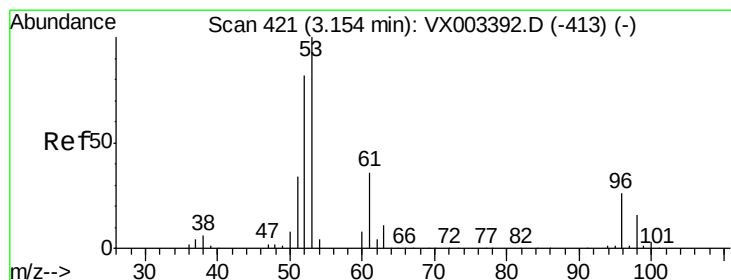
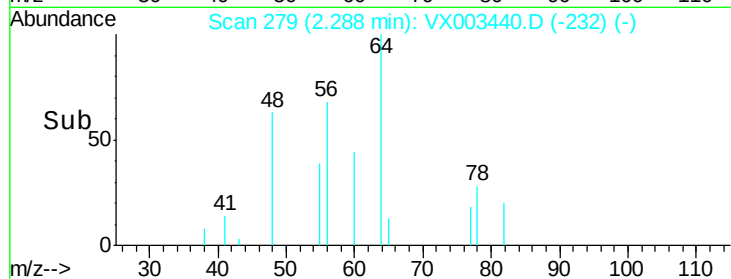
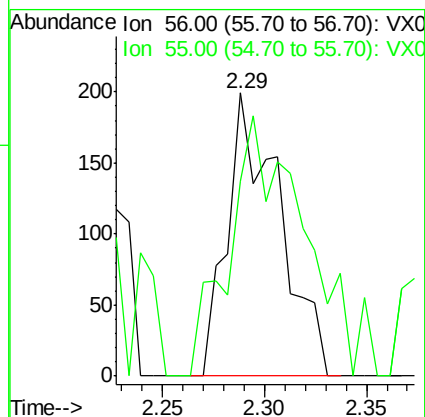
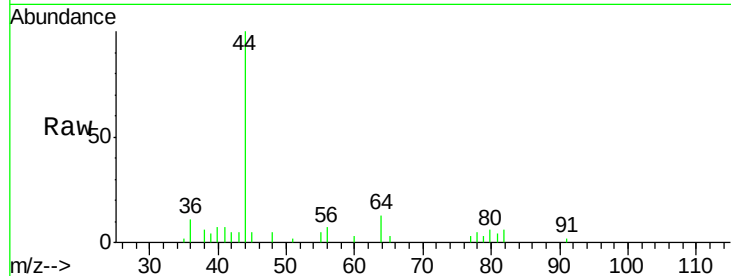
ClientSampled :

Tot Ion: 56 Resp: 355

Ion Ratio Lower Upper

56 100

55 133.8 57.0 85.4#



#15

Acrylonitrile

Concen: 0.39 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

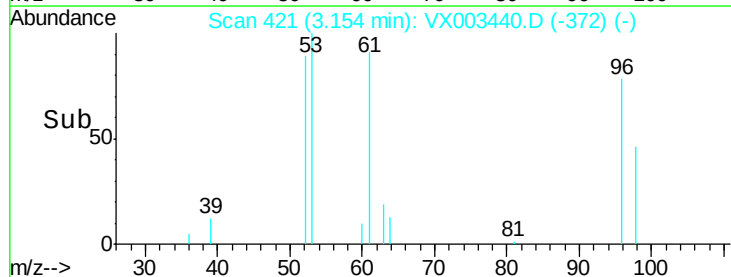
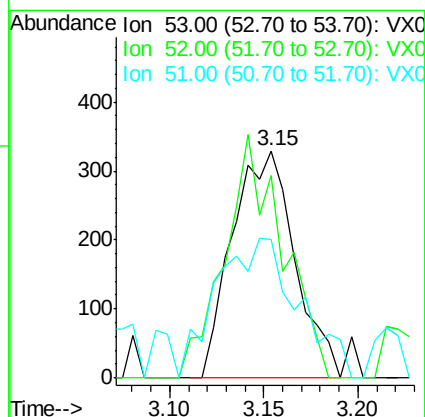
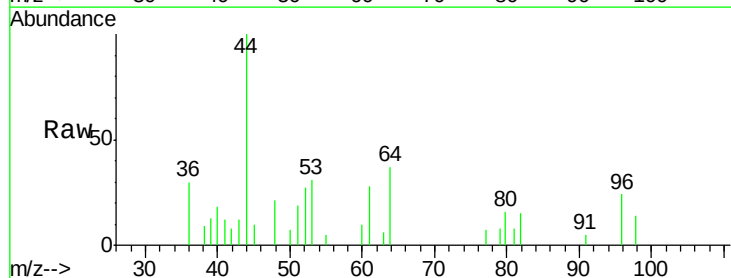
Tgt Ion: 53 Resp: 757

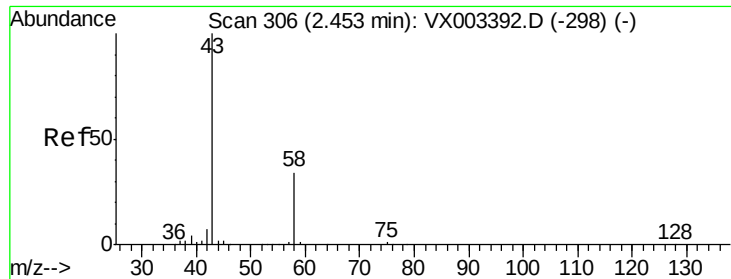
Ion Ratio Lower Upper

53 100

52 99.6 66.7 100.1

51 80.4 29.9 44.9#





#16

Acetone

Concen: 1.12 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

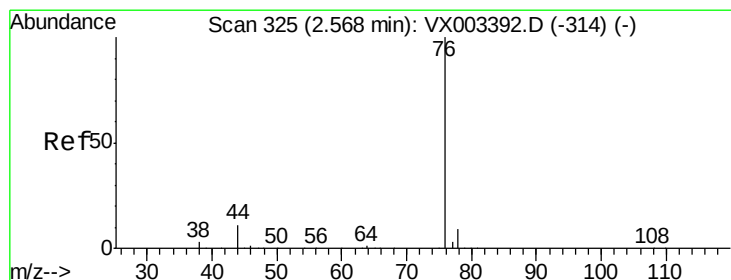
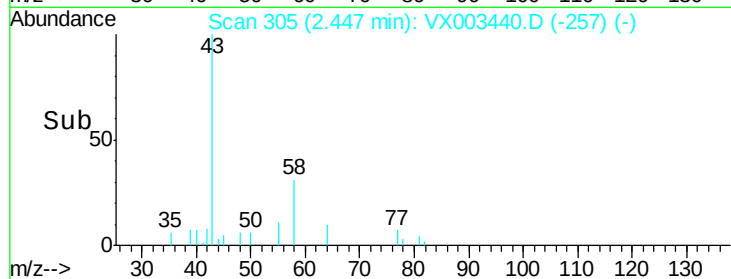
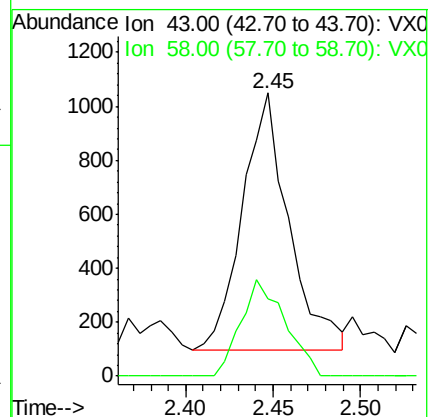
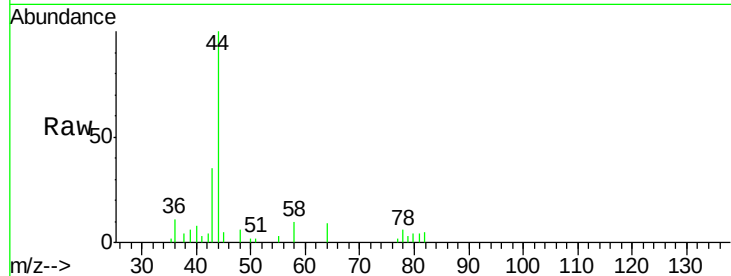
ClientSampled :

Tot Ion: 43 Resp: 1757

Ion Ratio Lower Upper

43 100

58 30.4 22.1 33.1



#17

Carbon Disulfide

Concen: 0.44 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003440.D

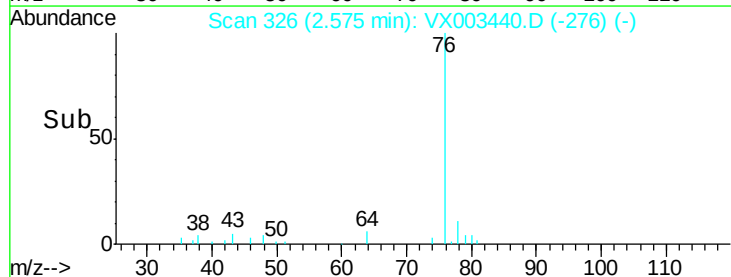
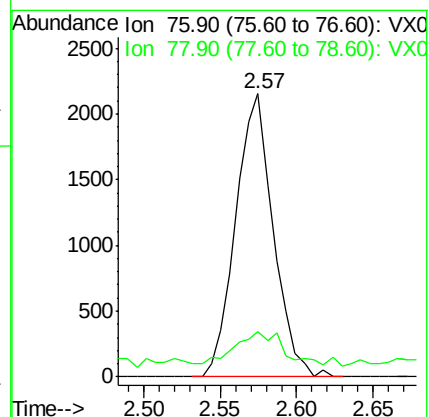
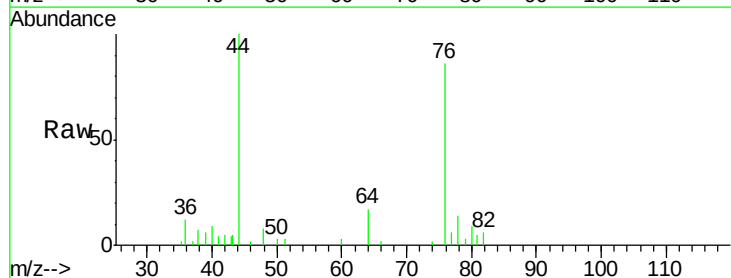
Acq: 18 Jul 2018 11:54

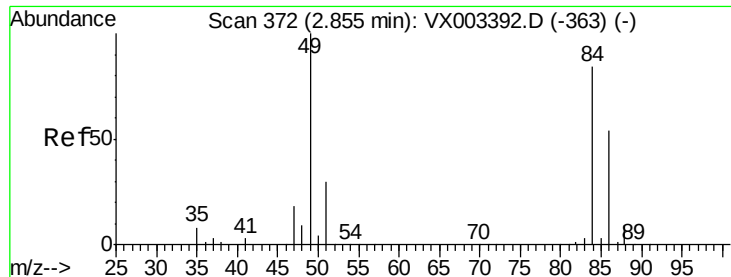
Tgt Ion: 76 Resp: 3661

Ion Ratio Lower Upper

76 100

78 12.1 6.9 10.3#

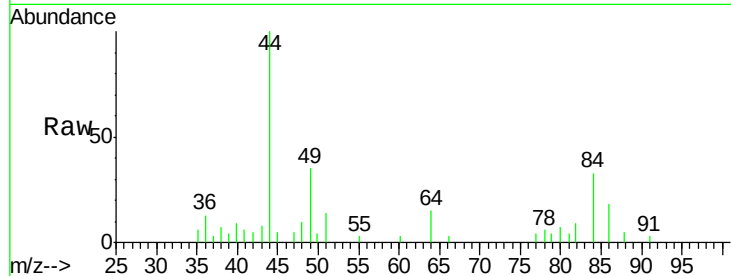




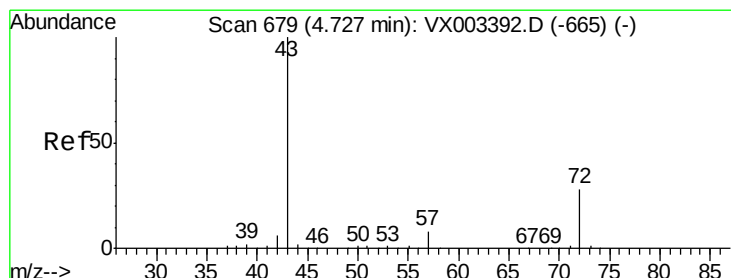
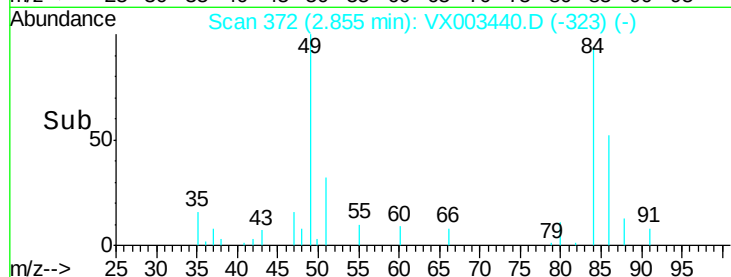
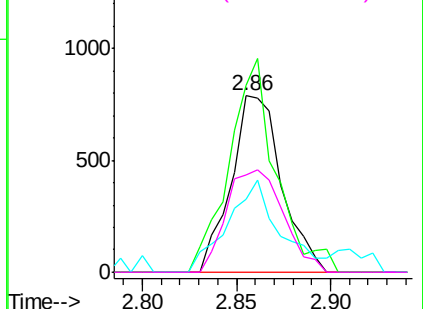
#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 1465
Ion Ratio Lower Upper
84 100
49 106.2 107.8 161.6#
51 41.6 32.8 49.2
86 55.3 52.5 78.7

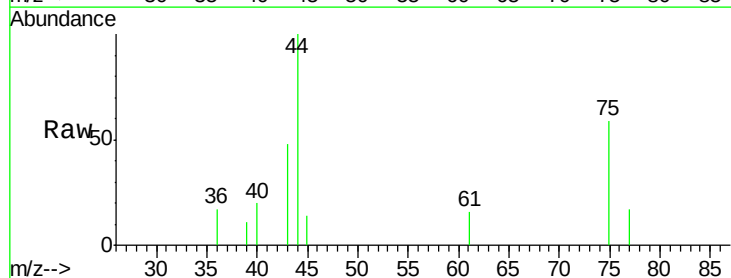


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

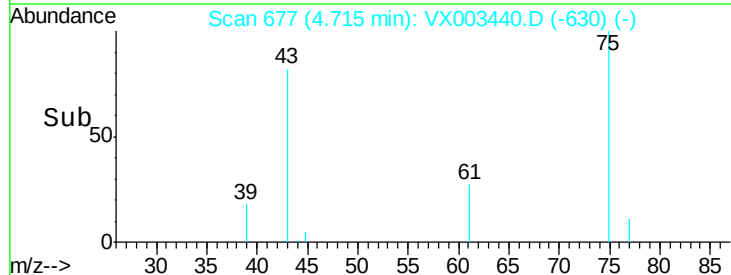
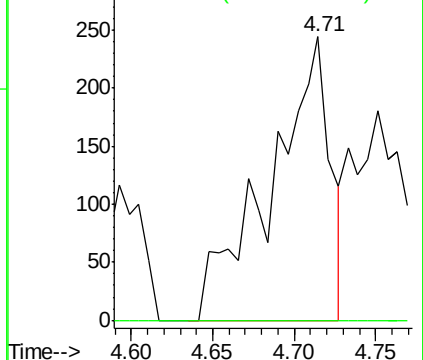


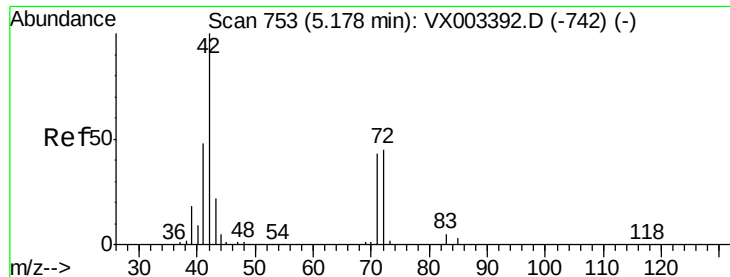
#25
2-Butanone
Concen: 0.25 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.01 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

Tgt Ion: 43 Resp: 623
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

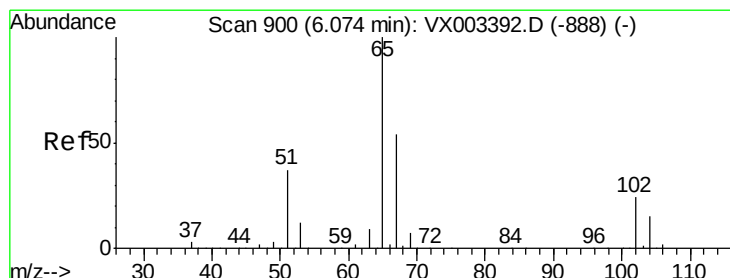
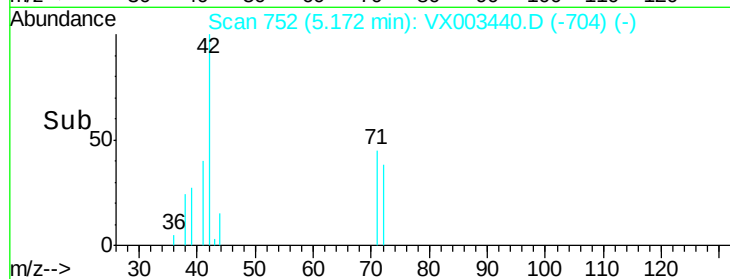
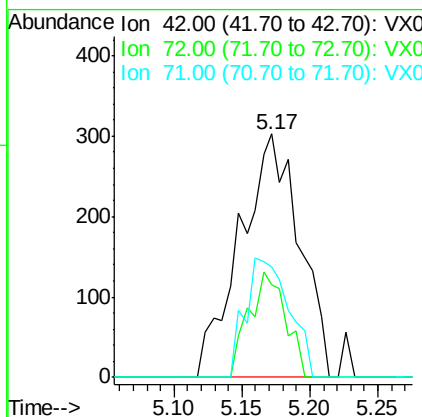
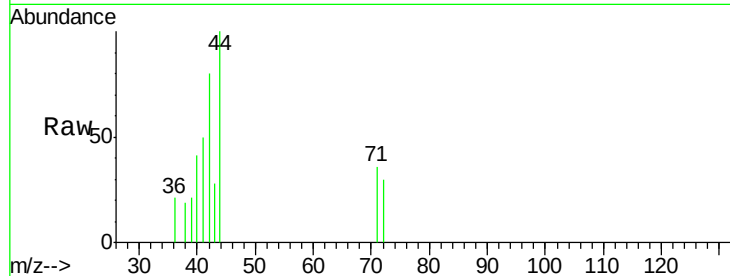




#29
Tetrahydrofuran
Concen: 0.59 ug/l
RT: 5.17 min Scan# 752
Delta R.T. -0.01 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

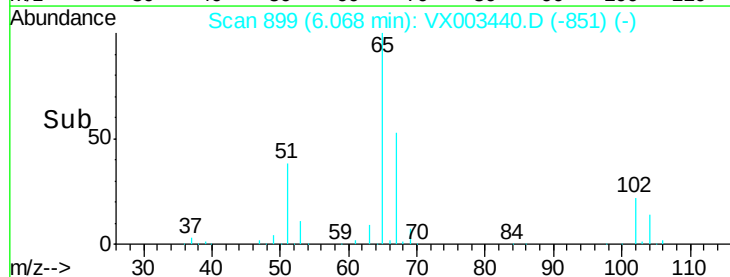
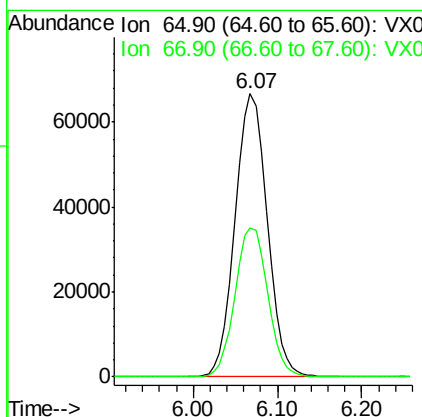
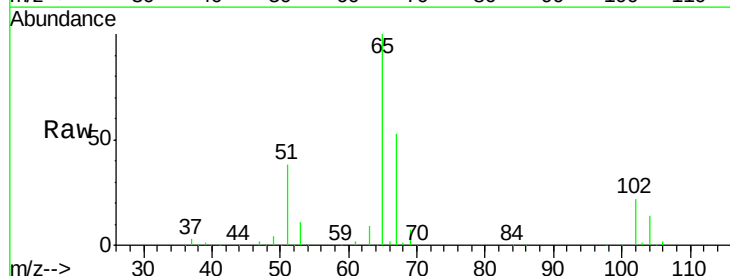
Instrument :
MSVOA_X
ClientSampleId :

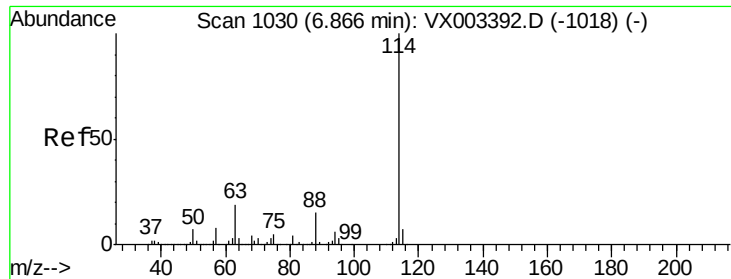
Tot Ion: 42 Resp: 923
Ion Ratio Lower Upper
42 100
72 27.0 32.0 48.0#
71 36.2 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 45.69 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.01 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

Tgt Ion: 65 Resp: 172592
Ion Ratio Lower Upper
65 100
67 53.6 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

ClientSampleId :

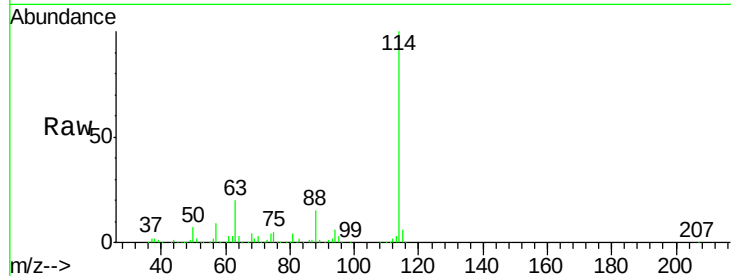
Tot Ion:114 Resp: 404500

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

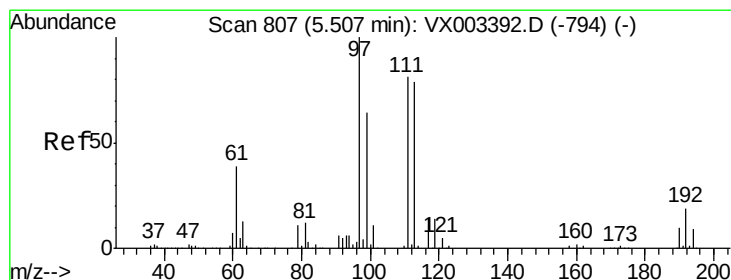
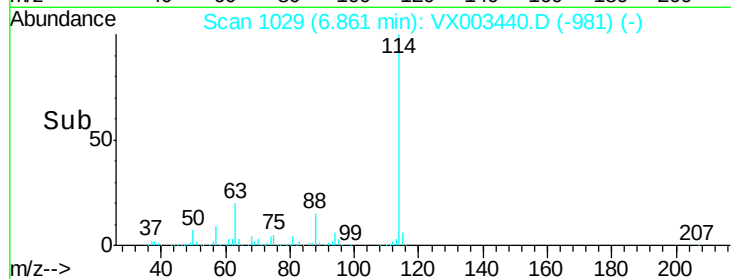
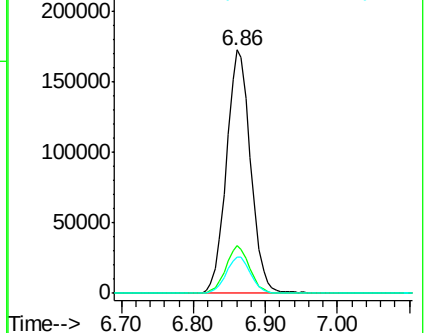
88 15.1 0.0 30.0



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: 48.12 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

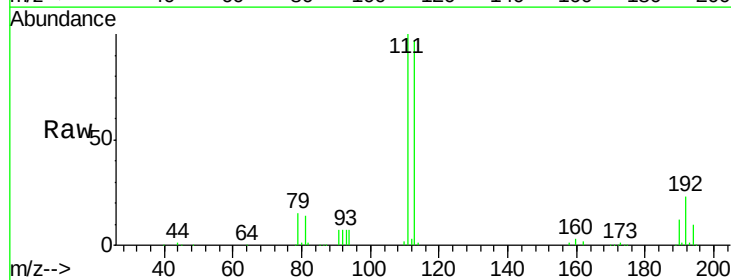
Tgt Ion:113 Resp: 157486

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

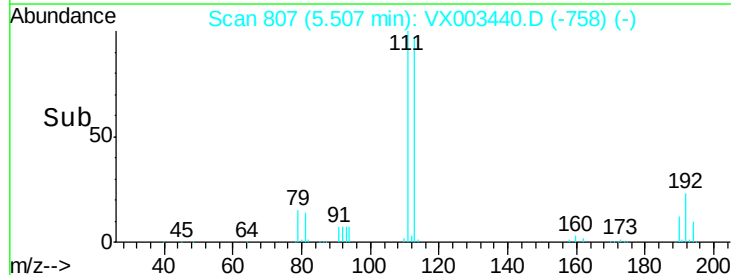
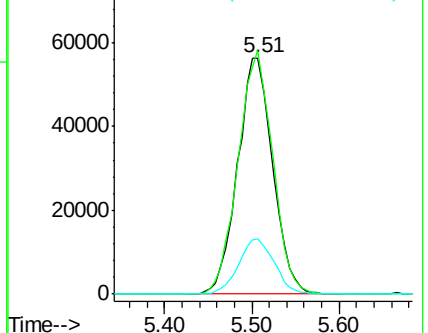
192 23.8 19.1 28.7

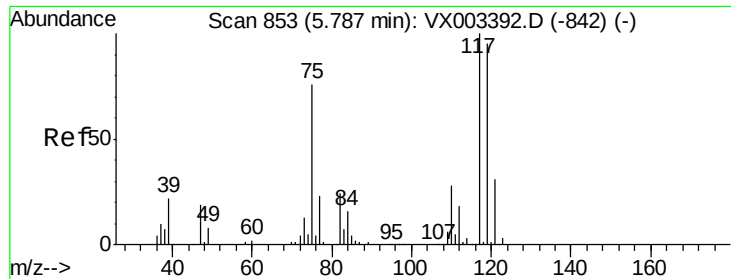


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

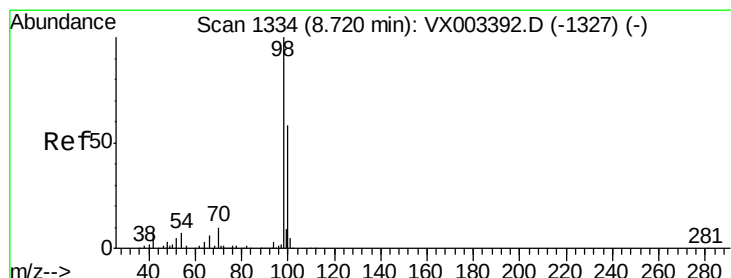
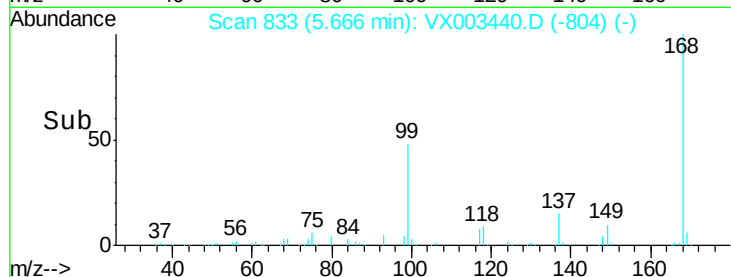
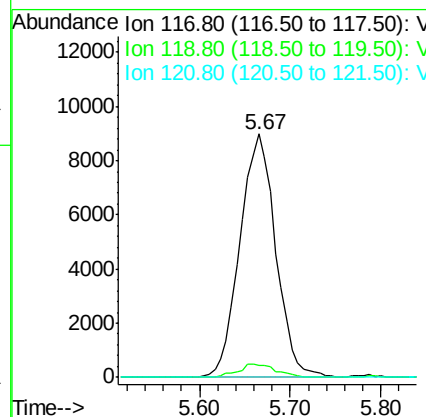
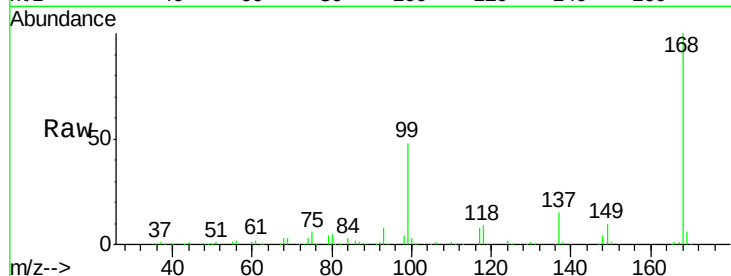




#38
Carbon Tetrachloride
Concen: 5.90 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

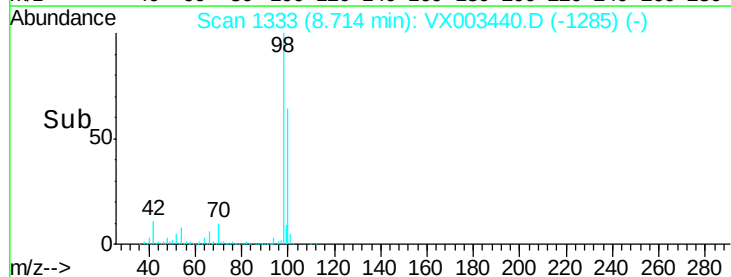
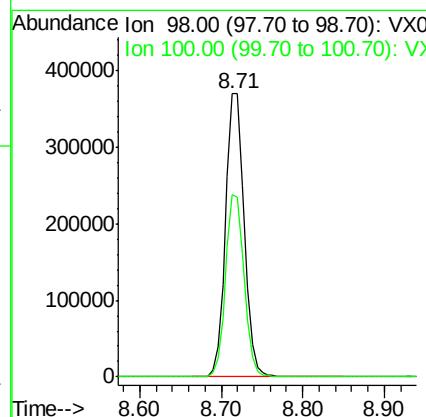
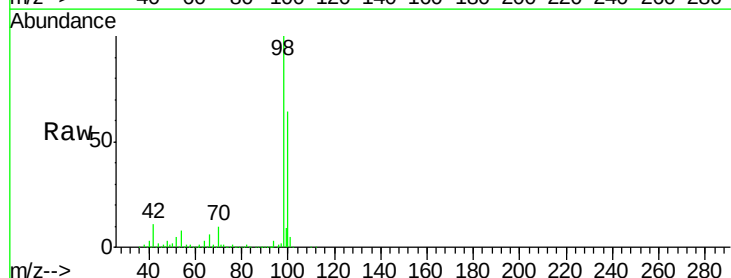
Instrument :
MSVOA_X
ClientSampleId :

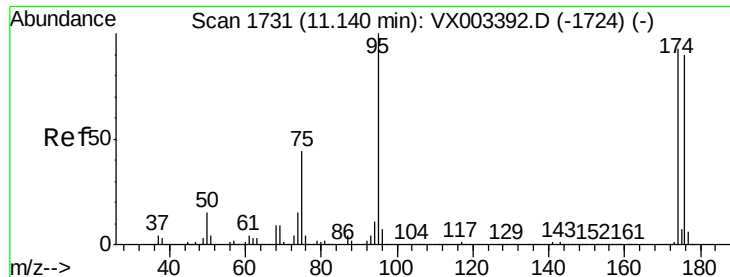
Tot Ion:117 Resp: 24603
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 24.4 36.6#



#50
Toluene-d8
Concen: 48.75 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

Tgt Ion: 98 Resp: 588840
Ion Ratio Lower Upper
98 100
100 64.1 50.9 76.3

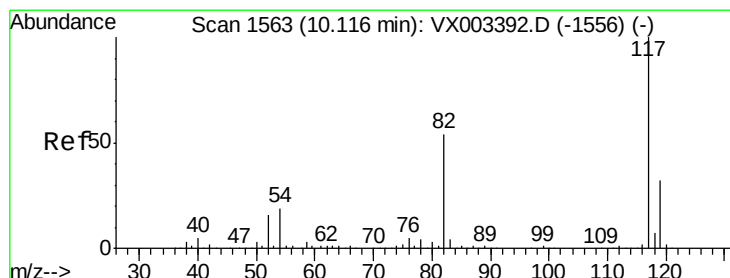
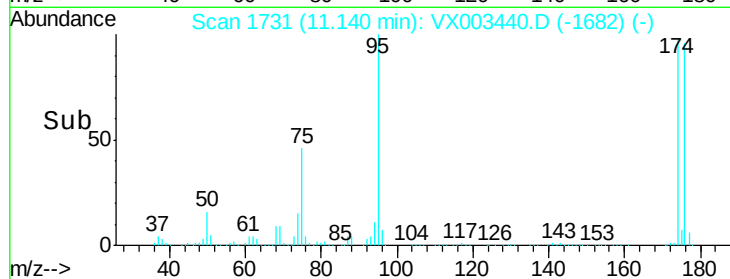
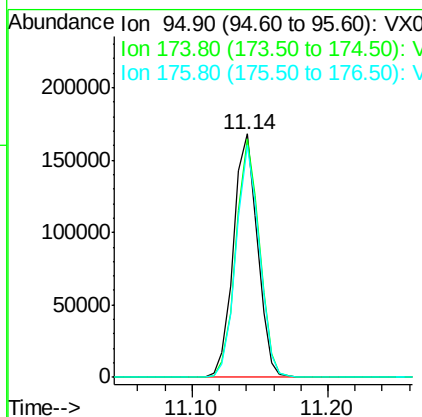
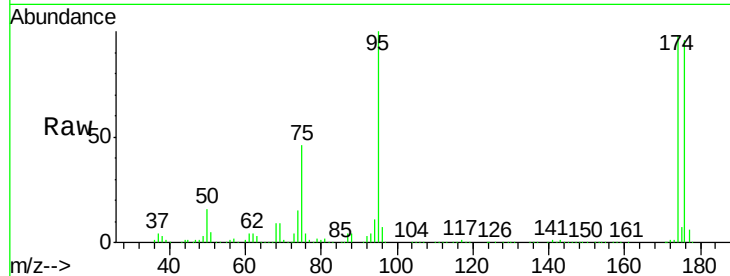




#62
4-Bromofluorobenzene
Concen: 47.83 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

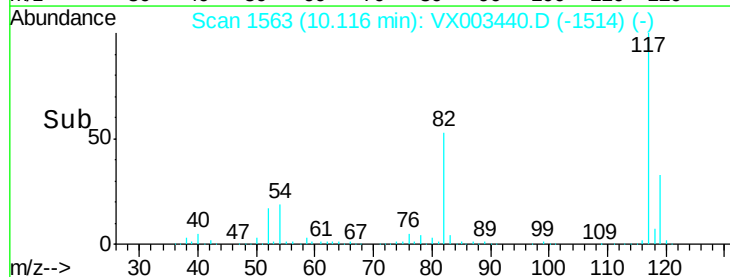
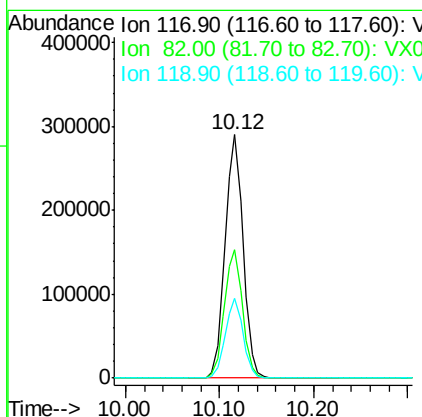
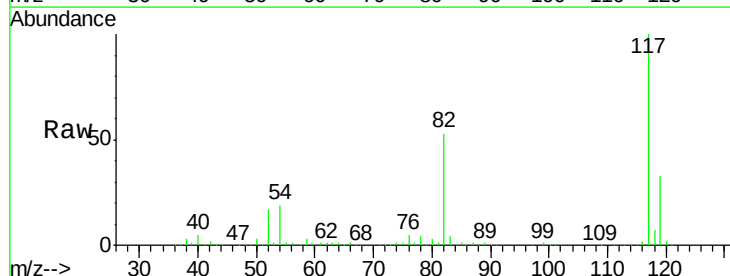
Instrument :
MSVOA_X
ClientSampleId :

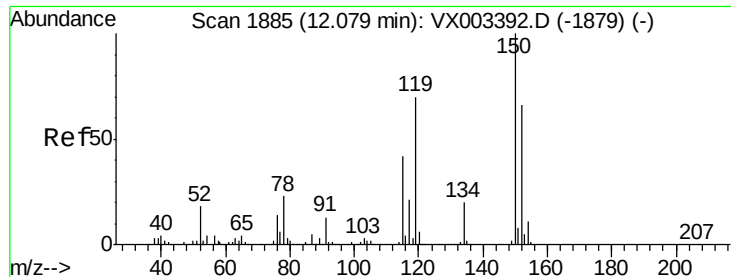
Tot Ion: 95 Resp: 206249
Ion Ratio Lower Upper
95 100
174 96.4 0.0 187.4
176 93.1 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003440.D
Acq: 18 Jul 2018 11:54

Tgt Ion: 117 Resp: 384466
Ion Ratio Lower Upper
117 100
82 52.7 45.0 67.4
119 32.6 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

ClientSampleId :

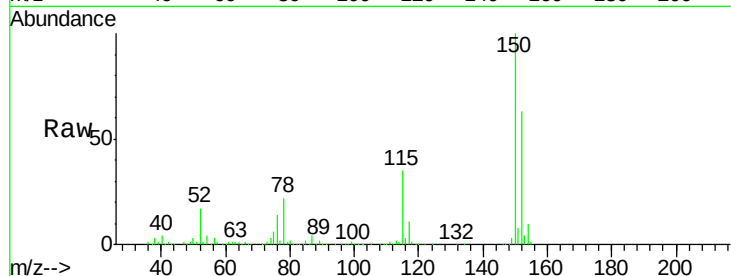
Tot Ion:152 Resp: 222021

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

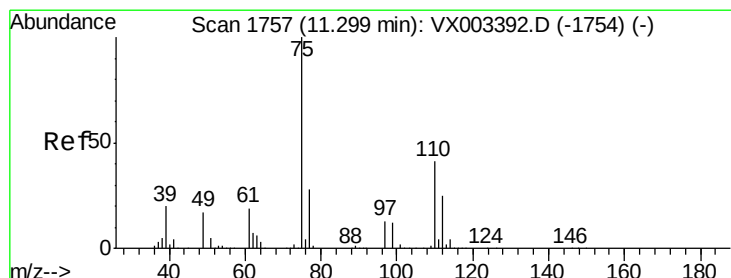
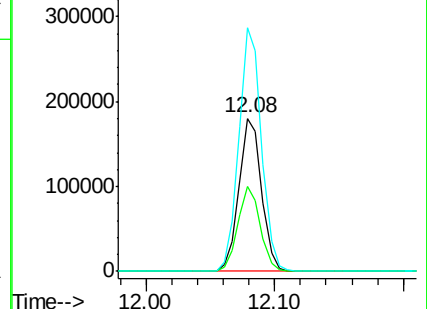
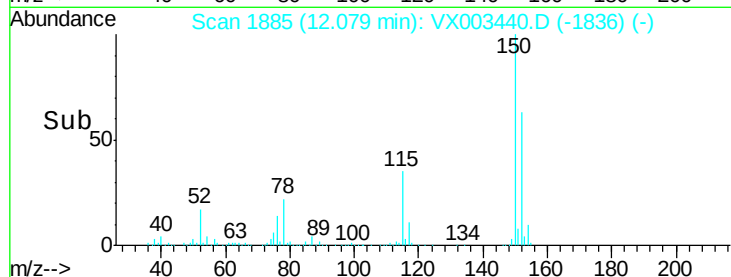
150 158.0 0.0 347.2



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: 24.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003440.D

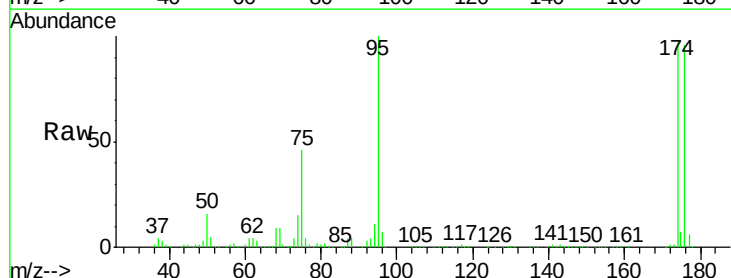
Acq: 18 Jul 2018 11:54

Tgt Ion: 75 Resp: 96808

Ion Ratio Lower Upper

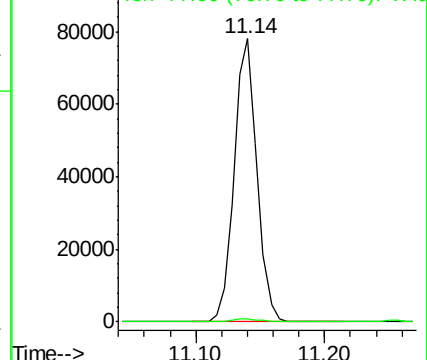
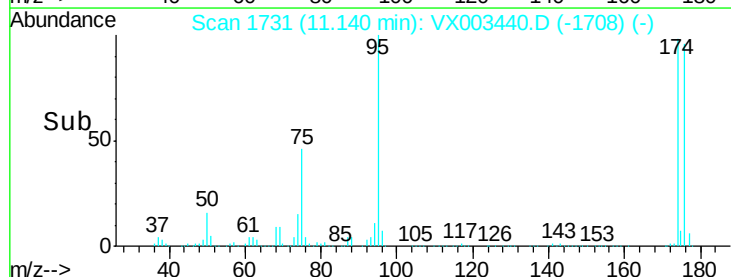
75 100

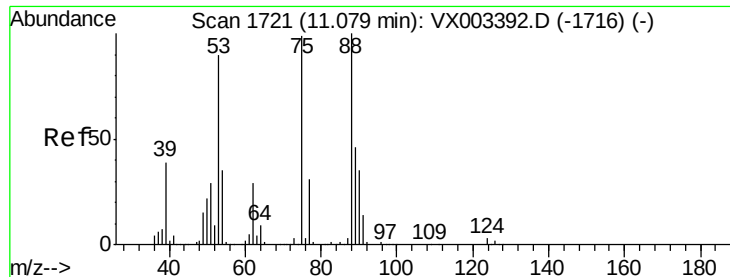
77 1.3 22.8 68.3#



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: 78.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Instrument :

MSVOA_X

ClientSampleId :

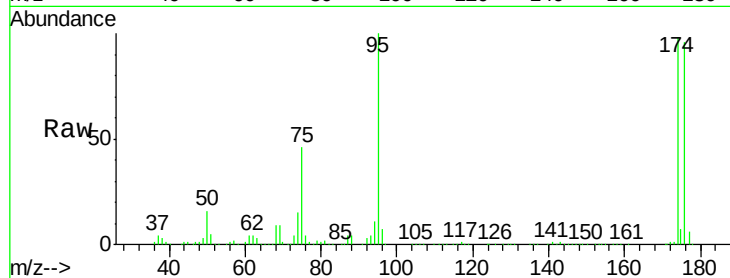
Tot Ion: 75 Resp: 96808

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

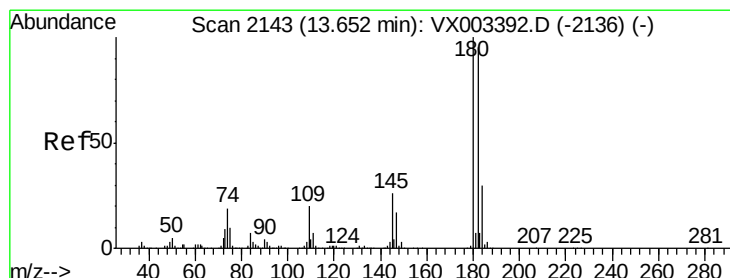
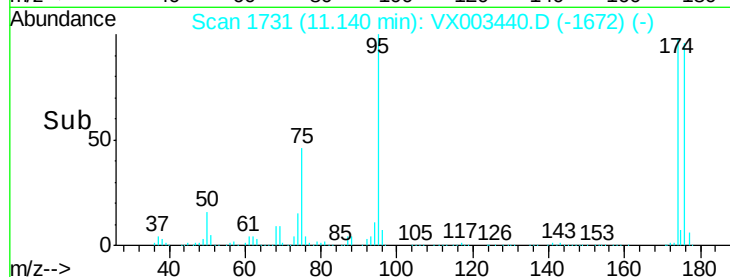
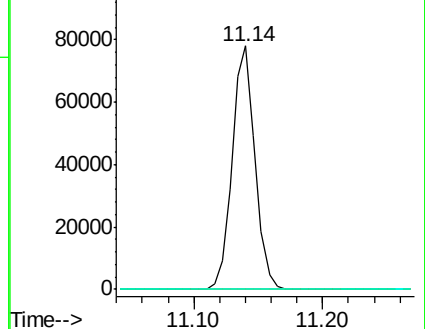
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX003392.D (-1716) (-)

Ion 53.00 (52.70 to 53.70): VX003392.D (-1716) (-)

Ion 88.90 (88.60 to 89.60): VX003392.D (-1716) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.28 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.01 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

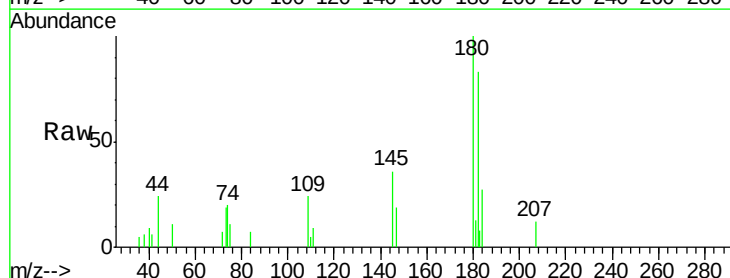
Tgt Ion: 180 Resp: 1427

Ion Ratio Lower Upper

180 100

182 86.8 47.7 143.1

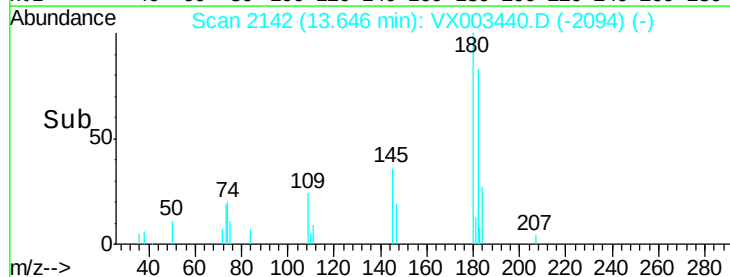
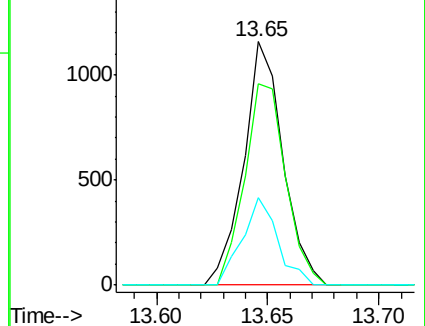
145 32.4 14.1 42.4

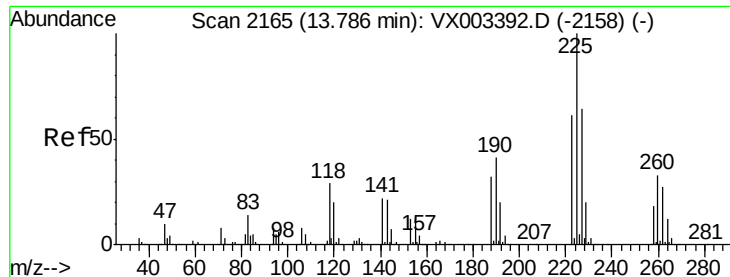


Abundance Ion 179.80 (179.50 to 180.50): VX003392.D (-2136) (-)

Ion 181.80 (181.50 to 182.50): VX003392.D (-2136) (-)

Ion 144.80 (144.50 to 145.50): VX003392.D (-2136) (-)





#94

Hexachlorobutadiene

Concen: 0.36 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

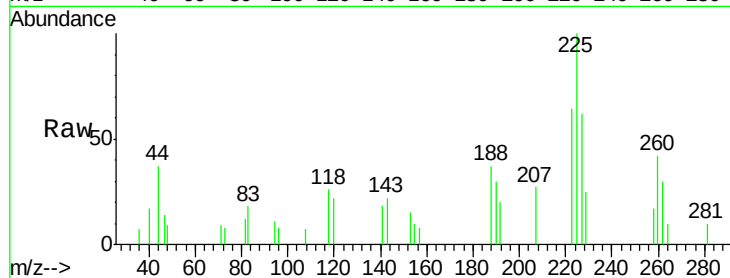
Instrument :

MSVOA_X

ClientSampled :

Tot Ion:225 Resp: 886

Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.6	95.0
227	61.4	32.4	97.2

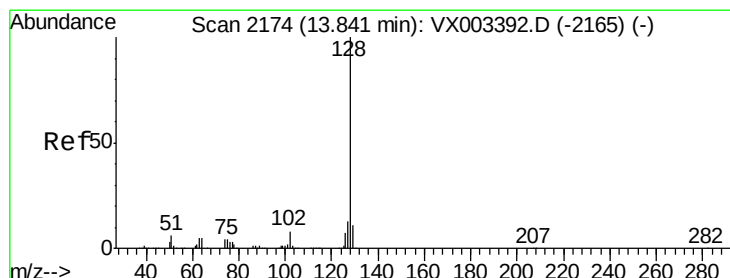
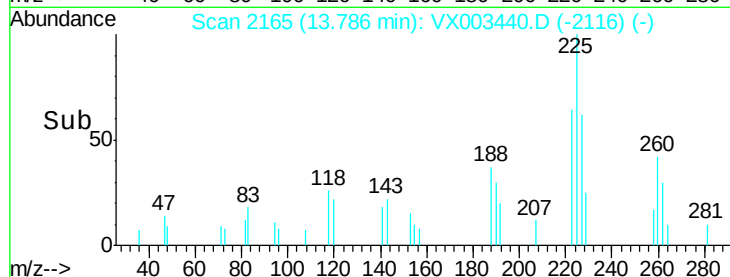
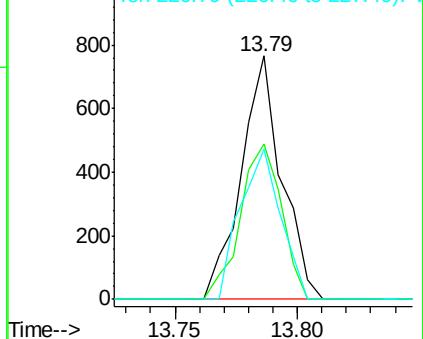


Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.23 ug/l

RT: 13.84 min Scan# 2174

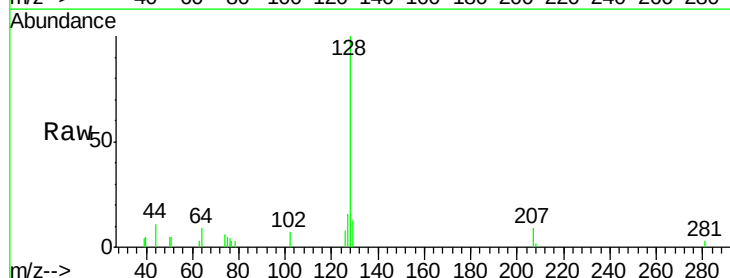
Delta R.T. 0.00 min

Lab File: VX003440.D

Acq: 18 Jul 2018 11:54

Tgt Ion:128 Resp: 3315

Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.4	15.6
129	10.4	8.6	13.0

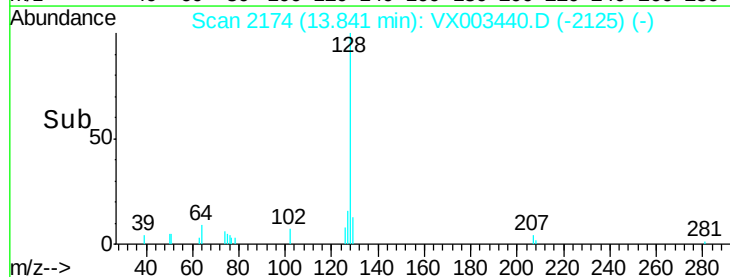
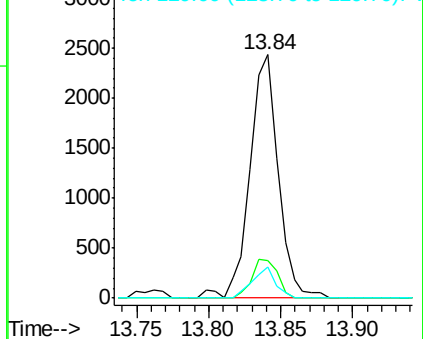


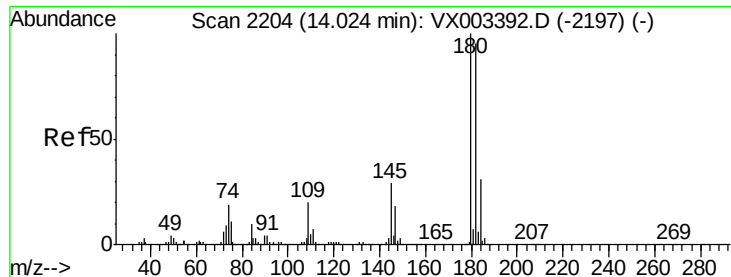
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

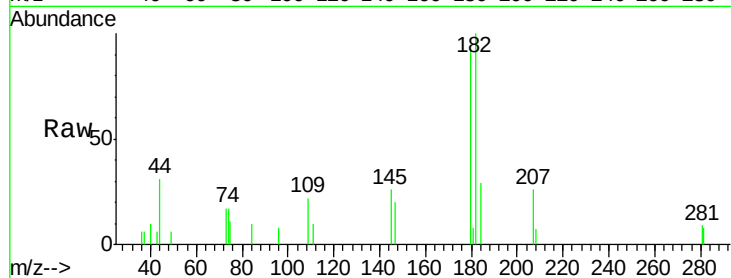




#96
 1,2,3-Trichlorobenzene
 Concen: 0.22 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003440.D
 Acq: 18 Jul 2018 11:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 1142
 Ion Ratio Lower Upper
 180 100
 182 96.9 48.0 144.0
 145 25.4 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

