

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003517.D
 Acq On : 20 Jul 2018 18:45
 Operator : JC/SP
 Sample : J3170-14DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW02-071118DL

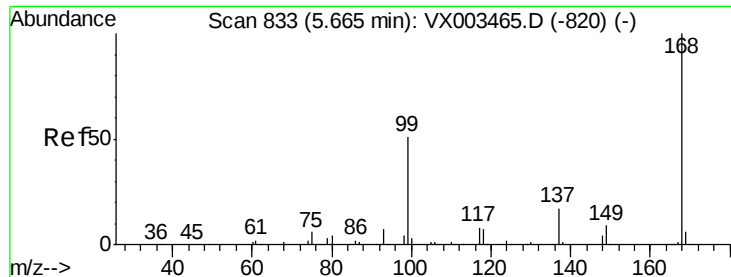
Quant Time: Jul 20 23:20:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	260213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	382454	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	375502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	220871	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	162232	52.67	ug/l	0.00
Spiked Amount			Recovery	=	105.34%	
35) Dibromofluoromethane	5.51	113	141118	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
50) Toluene-d8	8.72	98	556242	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	11.14	95	203773	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	303	Below Cal		99
3) Chloromethane	1.32	50	773	Below Cal		96
5) Bromomethane	1.64	94	2100	Below Cal		100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3935	1.36	ug/l	95
10) Methyl Iodide	2.51	142	2117	0.61	ug/l	91
11) Tert butyl alcohol	3.02	59	3746	6.15	ug/l #	76
12) 1,1-Dichloroethene	2.36	96	2526	0.95	ug/l	86
13) Acrolein	2.29	56	109	0.40	ug/l	97
16) Acetone	2.46	43	1217	1.05	ug/l #	89
17) Carbon Disulfide	2.56	76	1603	0.22	ug/l	96
18) Methyl Acetate	2.78	43	1725	0.47	ug/l	99
20) Methylene Chloride	2.85	84	1063	Below Cal	#	71
24) 1,1-Dichloroethane	3.69	63	1342	0.26	ug/l #	92
25) 2-Butanone	4.71	43	453	0.23	ug/l #	52
27) cis-1,2-Dichloroethene	4.59	96	1187	0.36	ug/l	95
29) Tetrahydrofuran	5.18	42	1023	0.79	ug/l #	72
36) 1,1-Dichloropropene	5.67	75	16028	3.88	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22587	5.58	ug/l #	17
44) Trichloroethene	7.21	130	226938	61.04	ug/l	99
49) 1,4-Dioxane	7.77	88	182	2.56	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	97758	24.64	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	97758	69.03	ug/l #	7
91) 1,2-Dichlorobenzene	12.40	146	2677	0.34	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX003517.D

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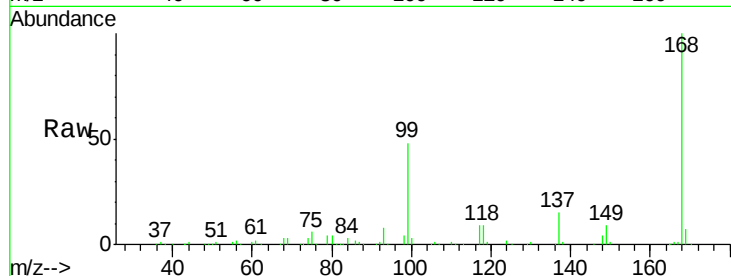
GW02-071118DL

Tot Ion:168 Resp: 260213

Ion Ratio Lower Upper

168 100

99 48.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

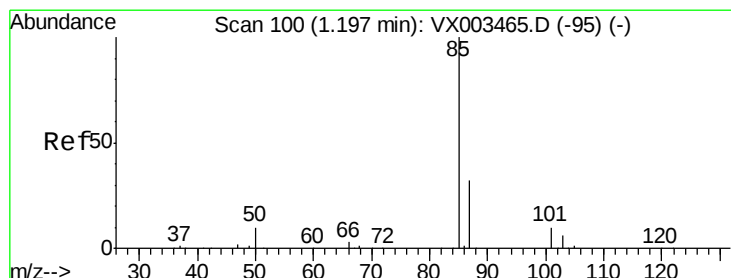
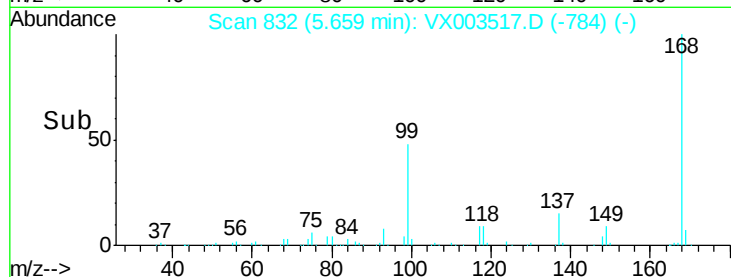
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003517.D

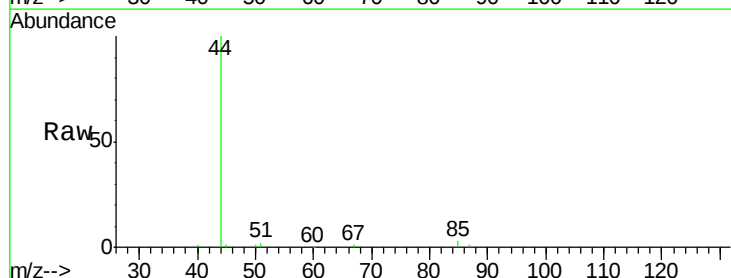
Acq: 20 Jul 2018 18:45

Tgt Ion: 85 Resp: 303

Ion Ratio Lower Upper

85 100

87 32.5 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

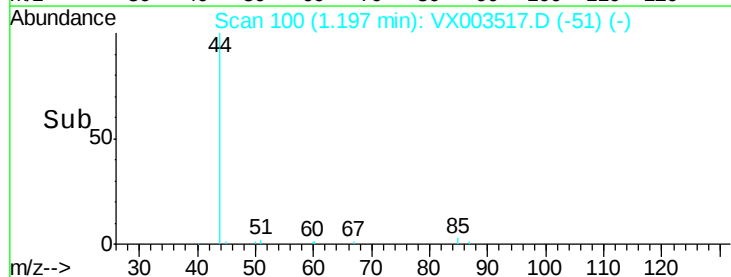
200

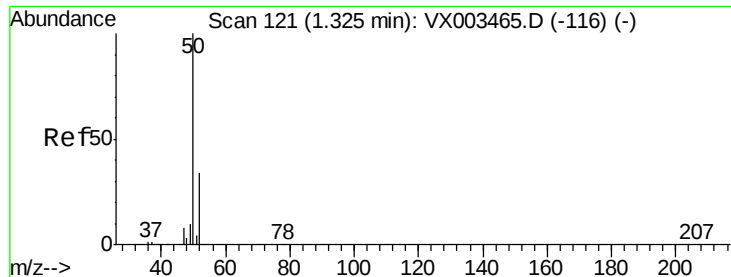
100

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

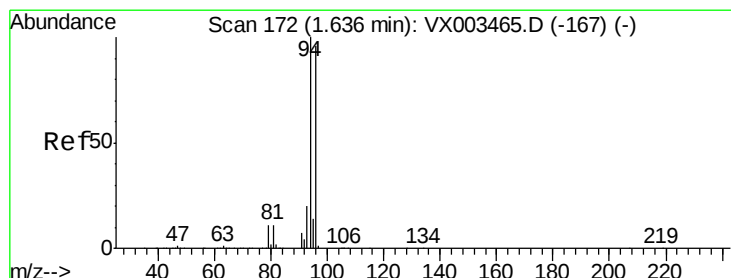
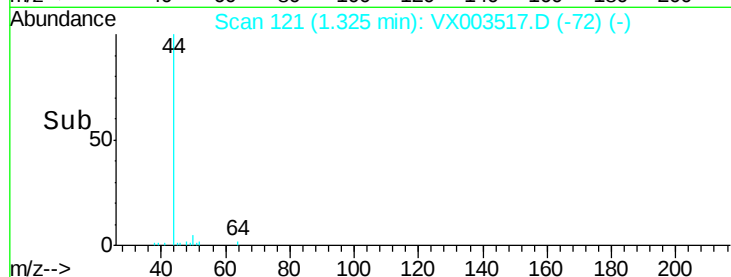
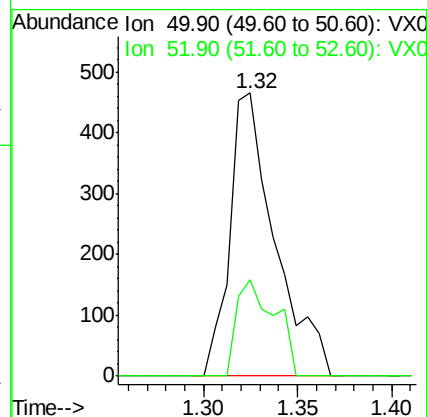
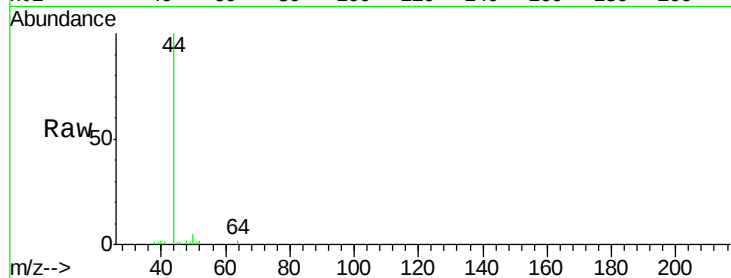
GW02-071118DL

Tot Ion: 50 Resp: 773

Ion Ratio Lower Upper

50 100

52 34.2 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003517.D

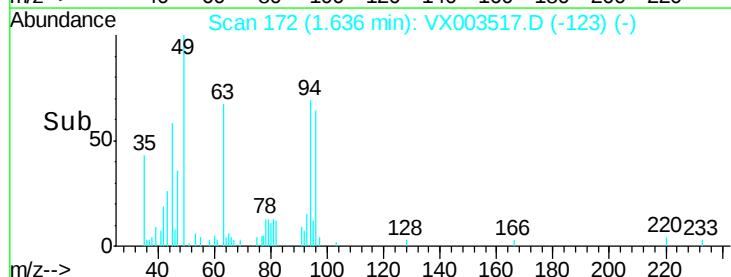
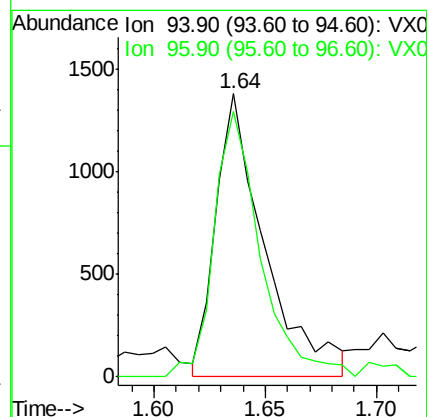
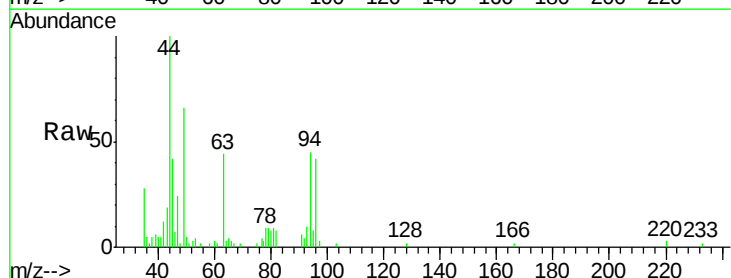
Acq: 20 Jul 2018 18:45

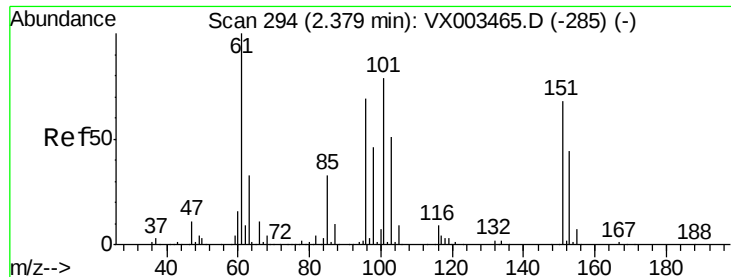
Tgt Ion: 94 Resp: 2100

Ion Ratio Lower Upper

94 100

96 93.8 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.36 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.01 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

GW02-071118DL

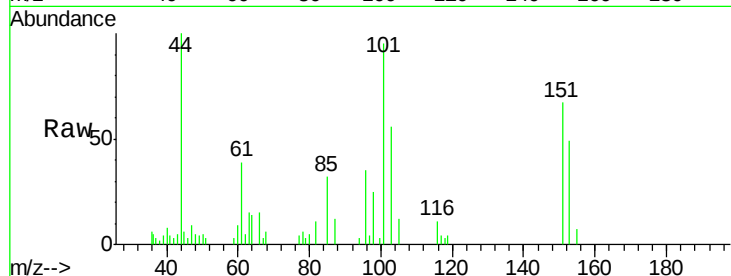
Tot Ion:101 Resp: 3935

Ion Ratio Lower Upper

101 100

85 40.1 36.0 54.0

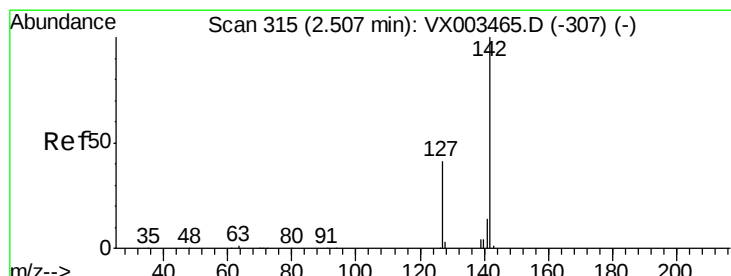
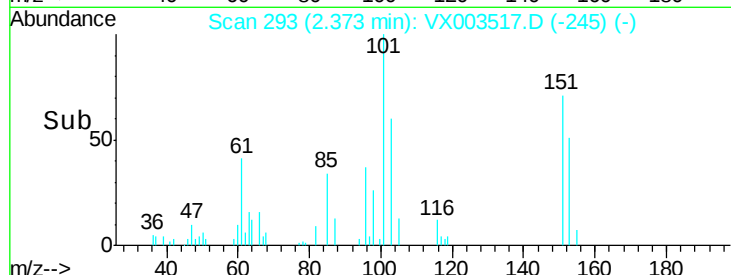
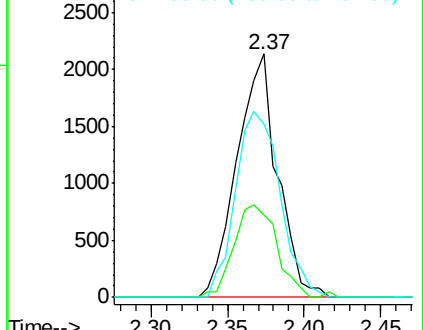
151 84.5 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.61 ug/l

RT: 2.51 min Scan# 315

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

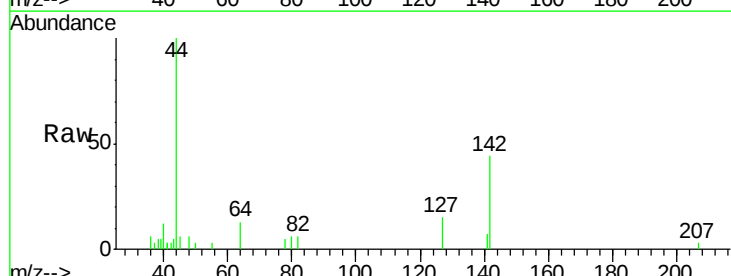
Tgt Ion:142 Resp: 2117

Ion Ratio Lower Upper

142 100

127 39.3 36.6 55.0

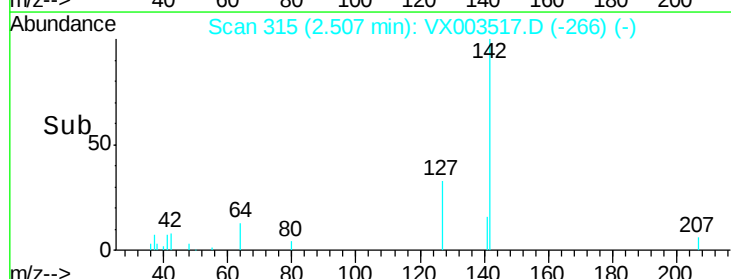
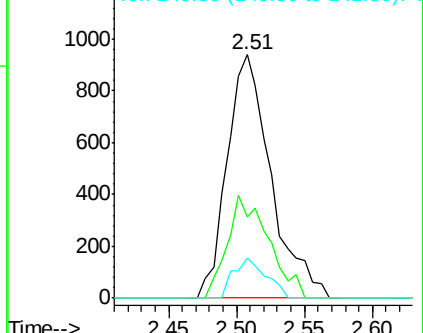
141 12.1 11.3 16.9

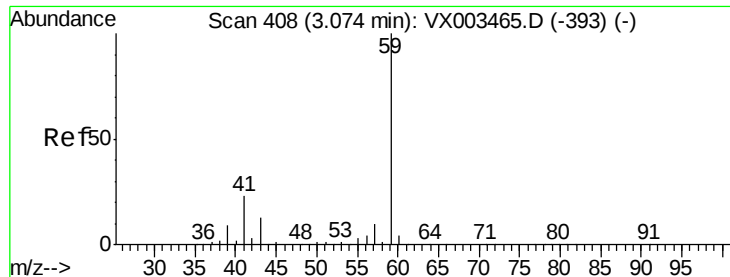


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



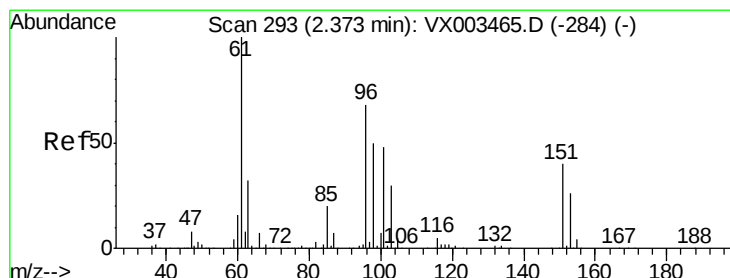
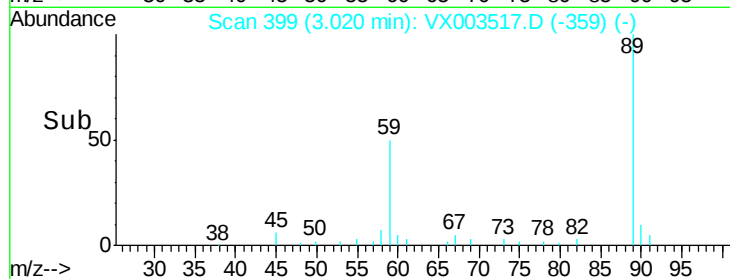
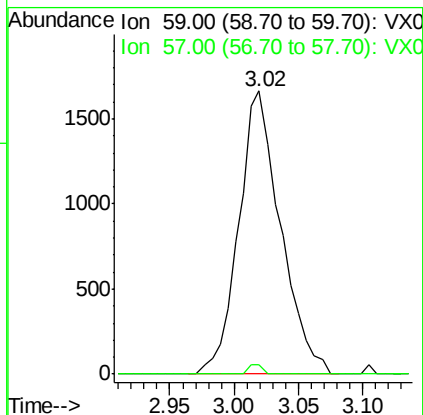
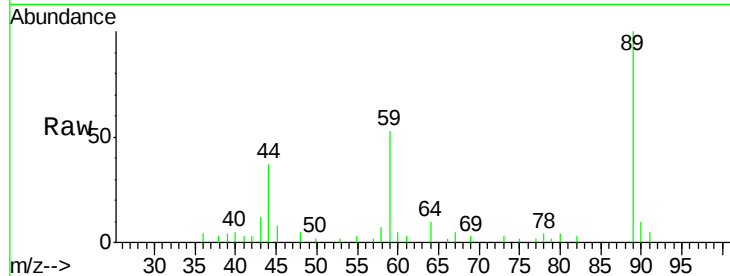


#11

Tert butyl alcohol
 Concen: 6.15 ug/l
 RT: 3.02 min Scan# 399
 Delta R.T. -0.05 min
 Lab File: VX003517.D
 Acq: 20 Jul 2018 18:45

Instrument :
 MSVOA_X
 ClientSampleId :
 GW02-071118DL

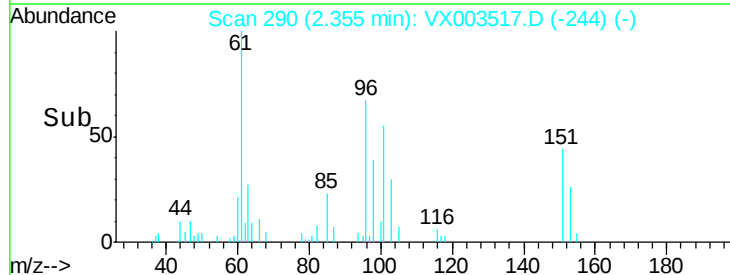
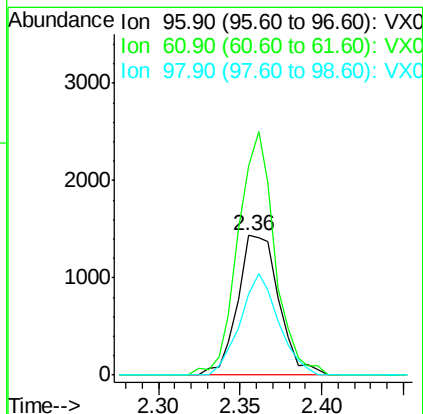
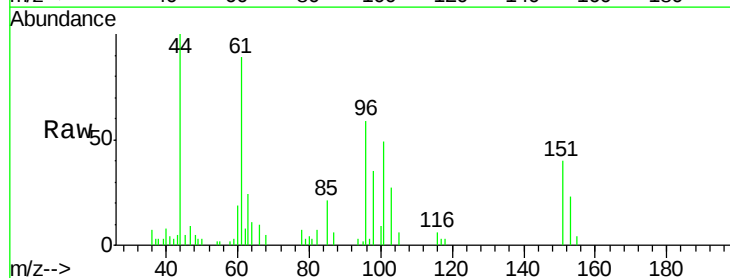
Tot Ion: 59 Resp: 3746
 Ion Ratio Lower Upper
 59 100
 57 1.1 8.2 12.2#

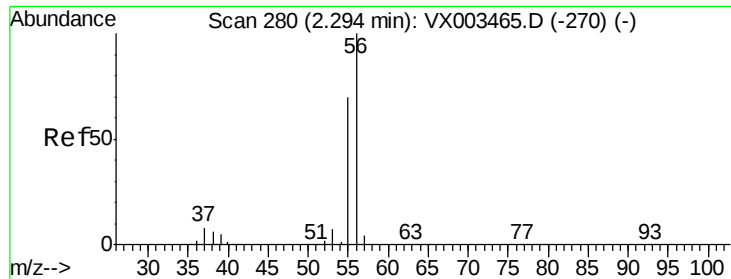


#12

1,1-Dichloroethene
 Concen: 0.95 ug/l
 RT: 2.36 min Scan# 290
 Delta R.T. -0.02 min
 Lab File: VX003517.D
 Acq: 20 Jul 2018 18:45

Tgt Ion: 96 Resp: 2526
 Ion Ratio Lower Upper
 96 100
 61 150.0 137.9 206.9
 98 58.1 51.6 77.4





#13

Acrolein

Concen: 0.40 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

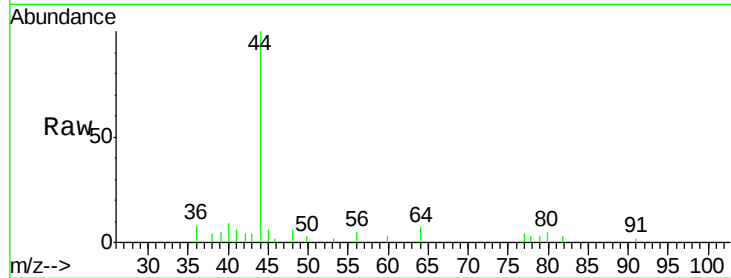
GW02-071118DL

Tot Ion: 56 Resp: 109

Ion Ratio Lower Upper

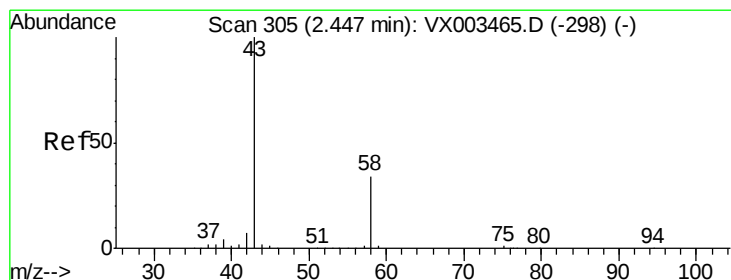
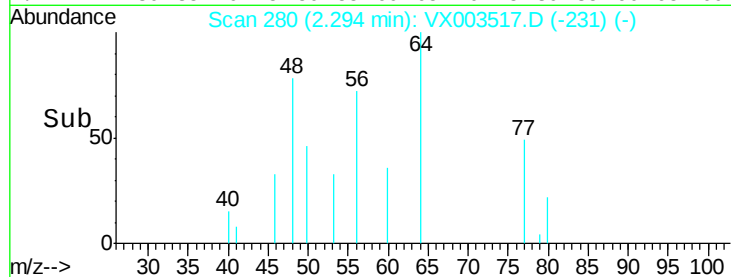
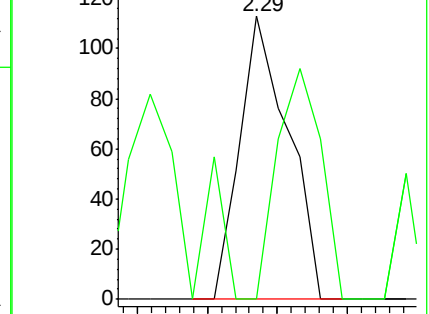
56 100

55 73.4 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.05 ug/l

RT: 2.46 min Scan# 307

Delta R.T. 0.01 min

Lab File: VX003517.D

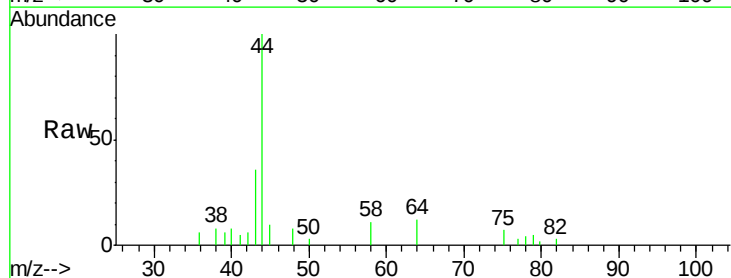
Acq: 20 Jul 2018 18:45

Tgt Ion: 43 Resp: 1217

Ion Ratio Lower Upper

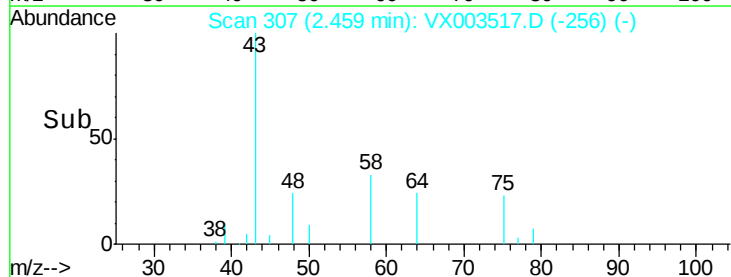
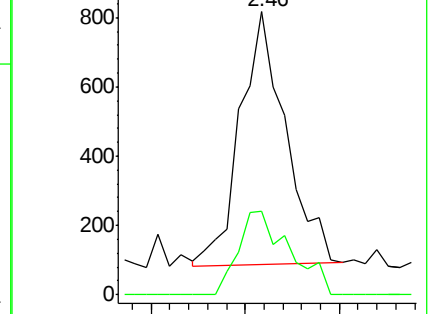
43 100

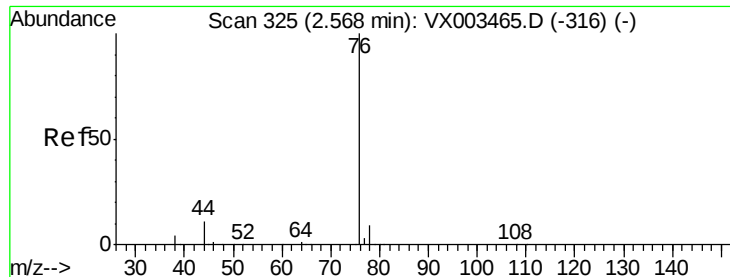
58 33.2 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.56 min Scan# 323

Delta R.T. -0.01 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

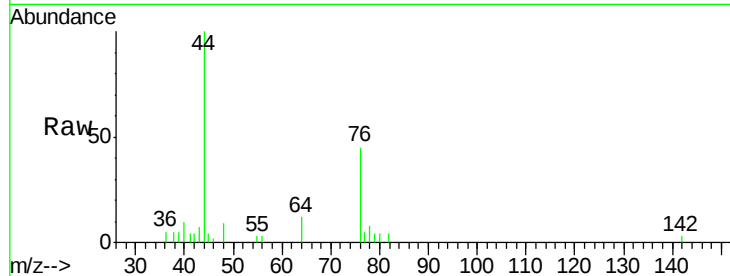
GW02-071118DL

Tot Ion: 76 Resp: 1603

Ion Ratio Lower Upper

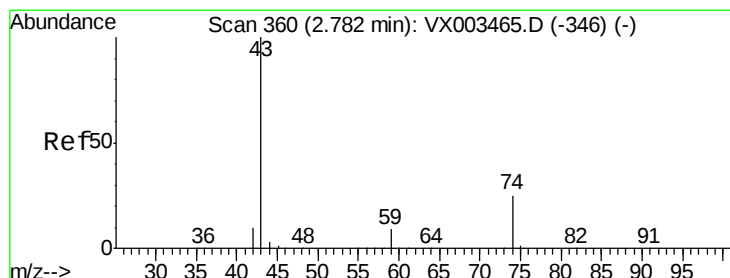
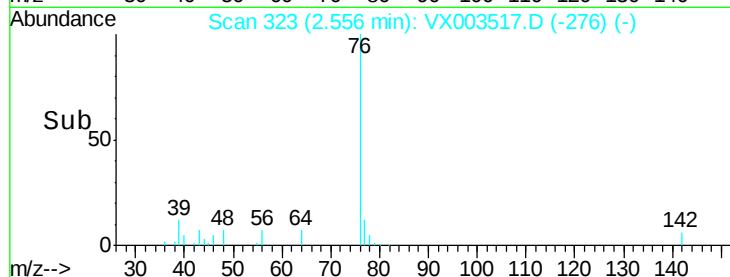
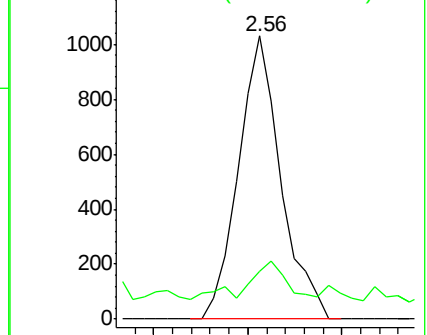
76 100

78 10.1 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.47 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003517.D

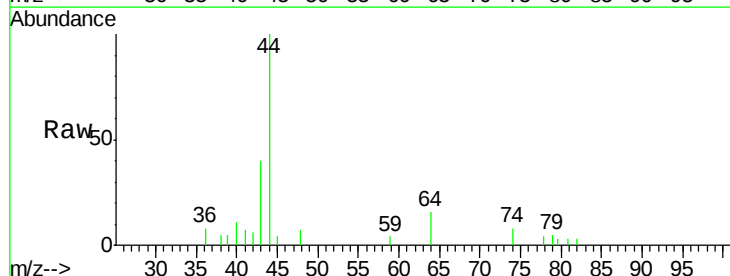
Acq: 20 Jul 2018 18:45

Tgt Ion: 43 Resp: 1725

Ion Ratio Lower Upper

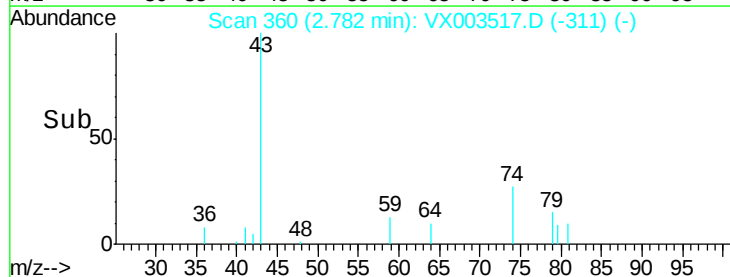
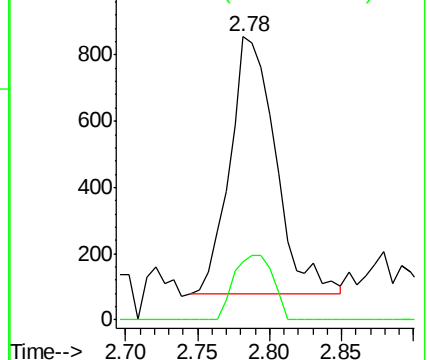
43 100

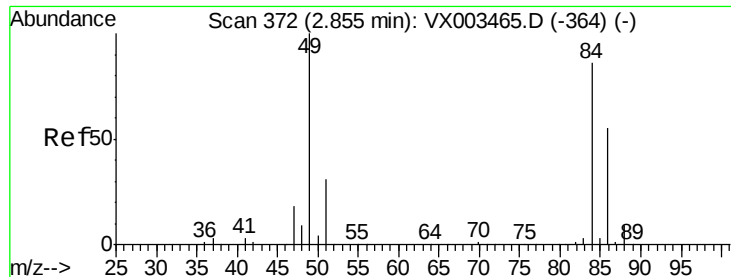
74 21.4 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

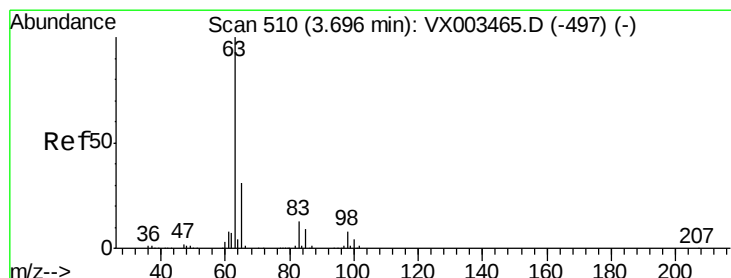
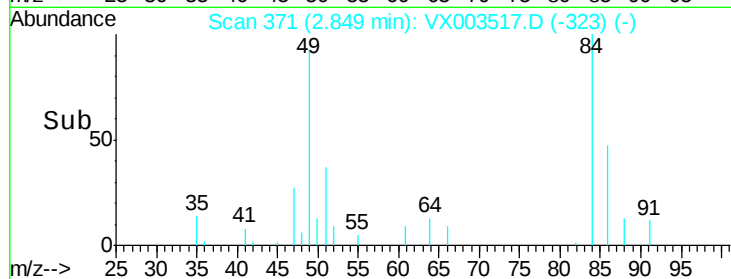
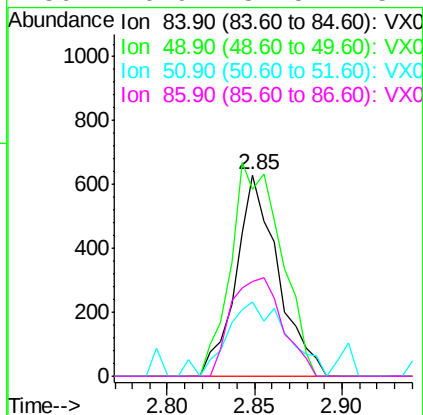
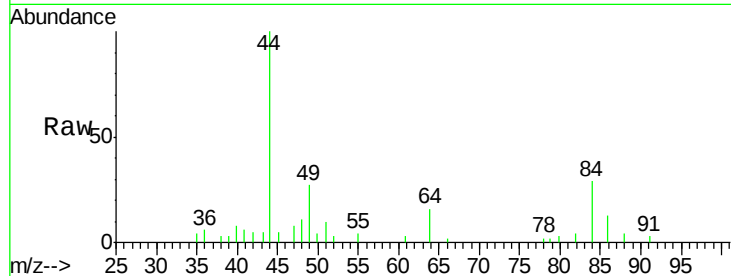




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 371
Delta R.T. -0.01 min
Lab File: VX003517.D
Acq: 20 Jul 2018 18:45

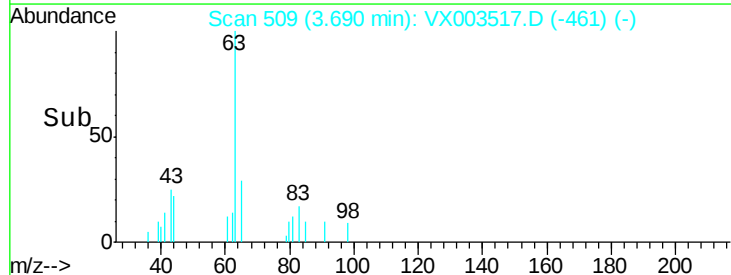
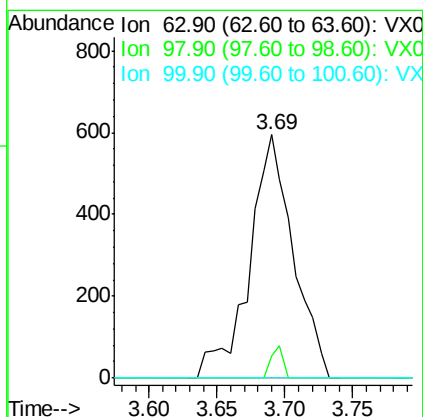
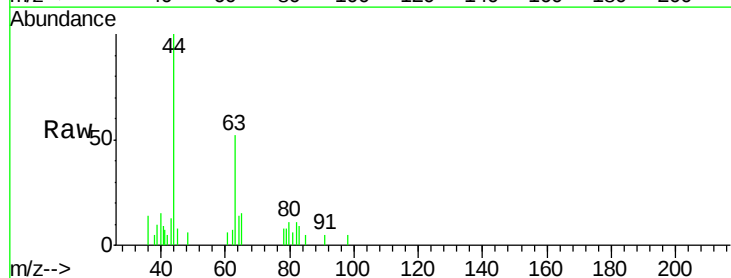
Instrument :
MSVOA_X
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GW02-071118DL

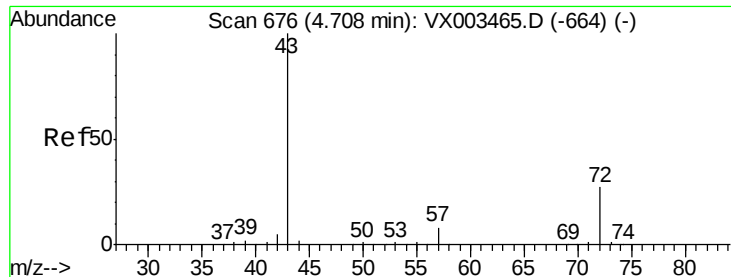
Tot Ion: 84 Resp: 1063
Ion Ratio Lower Upper
84 100
49 93.0 107.8 161.6#
51 28.2 32.8 49.2#
86 46.9 52.5 78.7#



#24
1,1-Dichloroethane
Concen: 0.26 ug/l
RT: 3.69 min Scan# 509
Delta R.T. -0.01 min
Lab File: VX003517.D
Acq: 20 Jul 2018 18:45

Tgt Ion: 63 Resp: 1342
Ion Ratio Lower Upper
63 100
98 8.9 3.4 10.2
100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 0.23 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

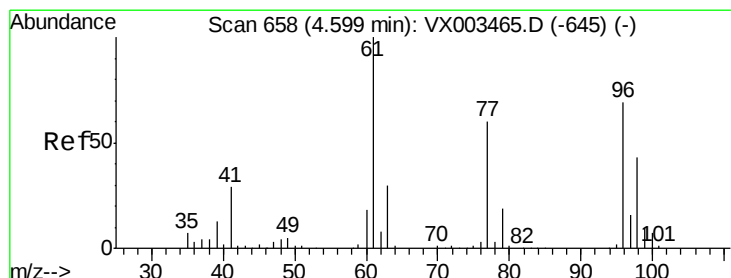
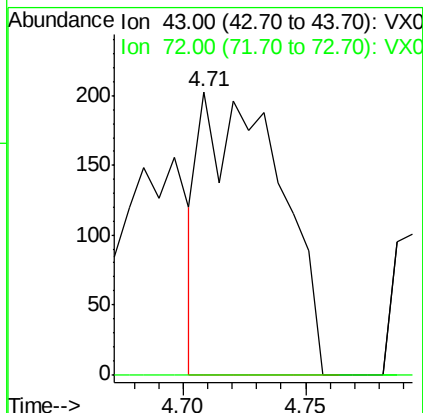
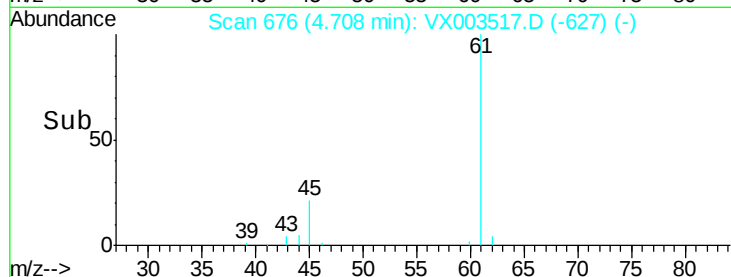
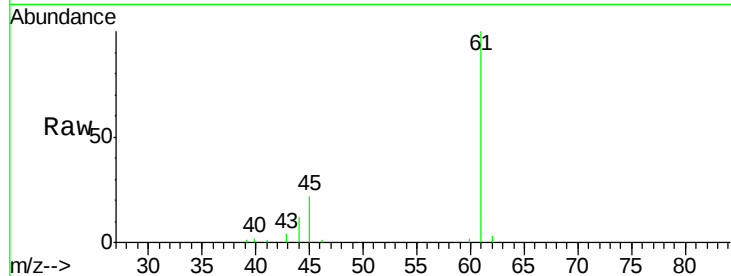
GW02-071118DL

Tot Ion: 43 Resp: 453

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#27

cis-1,2-Dichloroethene

Concen: 0.36 ug/l

RT: 4.59 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

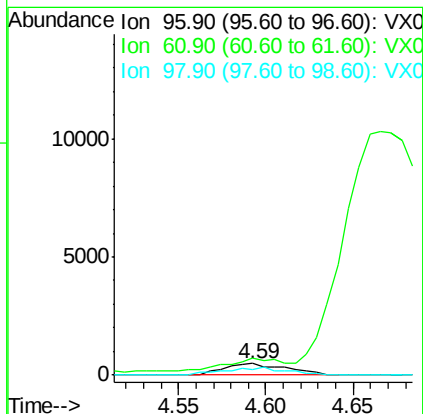
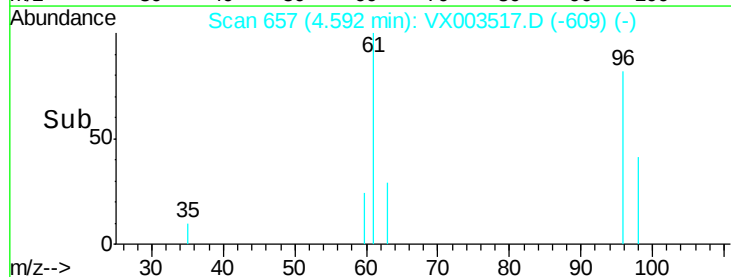
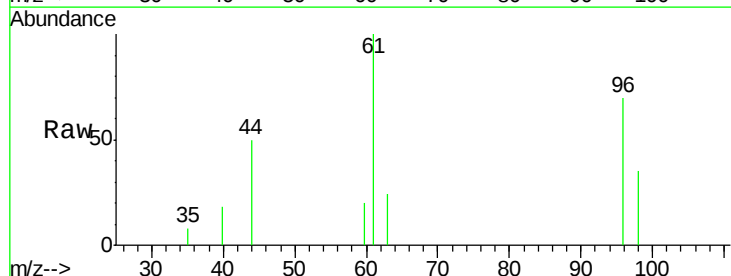
Tgt Ion: 96 Resp: 1187

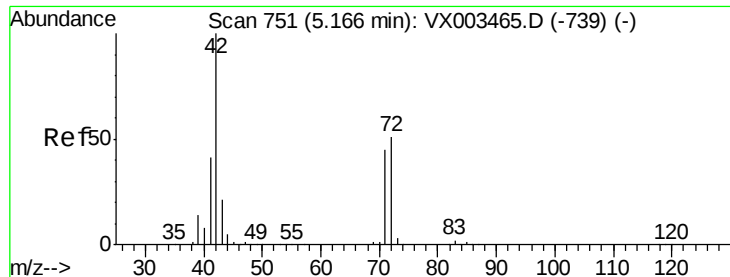
Ion Ratio Lower Upper

96 100

61 157.2 0.0 330.2

98 67.6 0.0 130.2





#29

Tetrahydrofuran

Concen: 0.79 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

GW02-071118DL

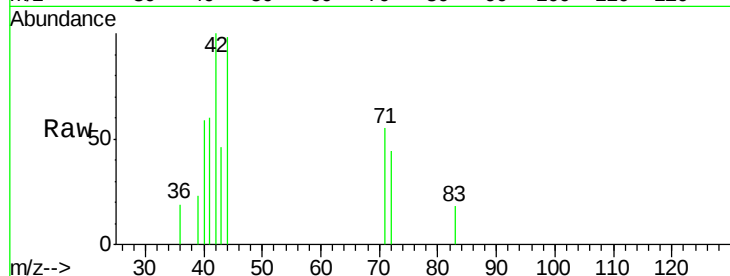
Tot Ion: 42 Resp: 1023

Ion Ratio Lower Upper

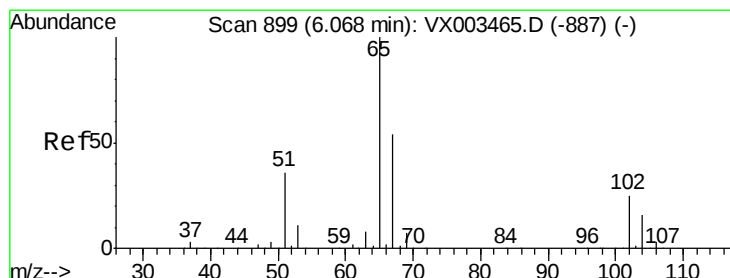
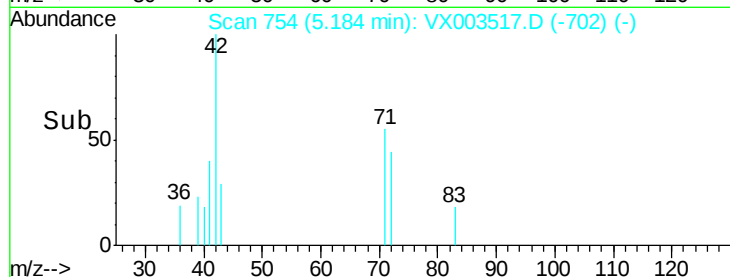
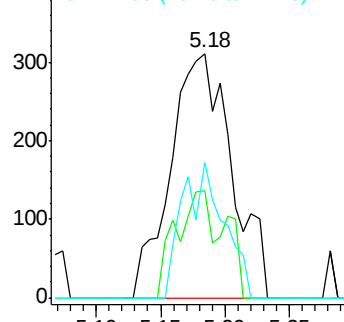
42 100

72 27.4 32.0 48.0#

71 15.9 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.67 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003517.D

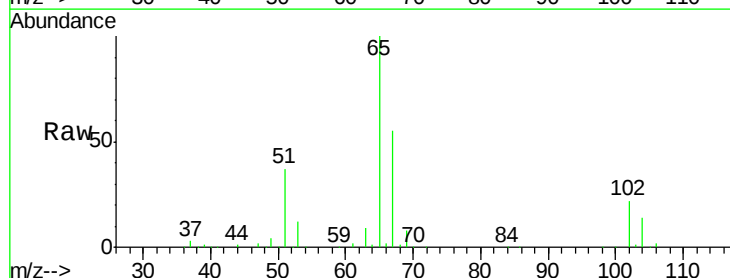
Acq: 20 Jul 2018 18:45

Tgt Ion: 65 Resp: 162232

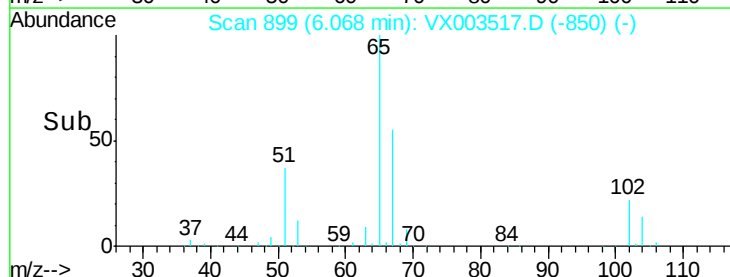
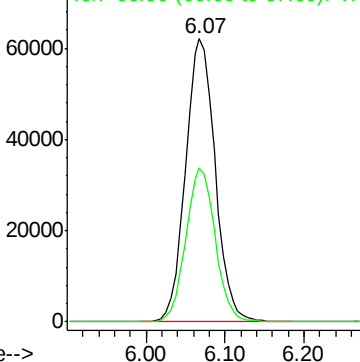
Ion Ratio Lower Upper

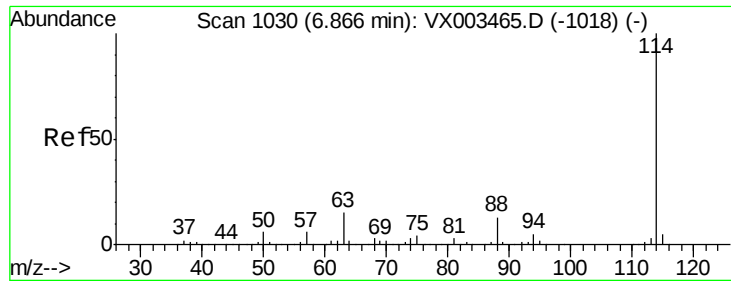
65 100

67 54.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

GW02-071118DL

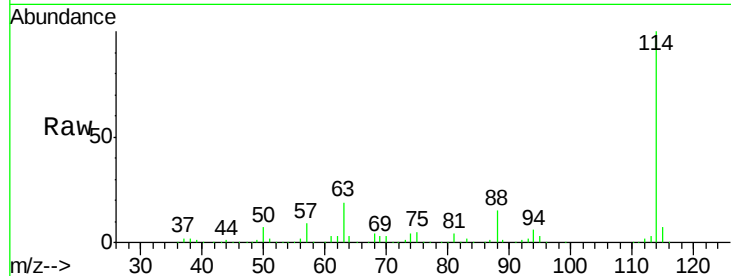
Tot Ion:114 Resp: 382454

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.4

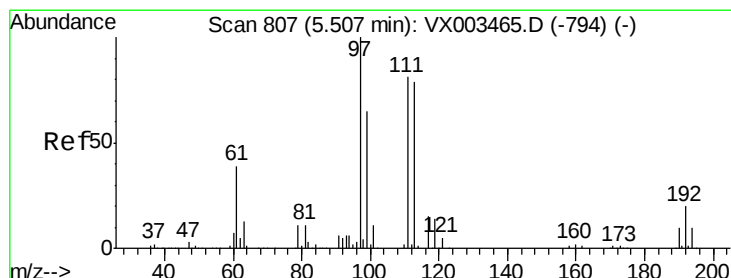
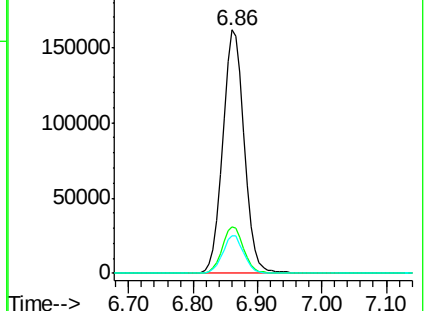
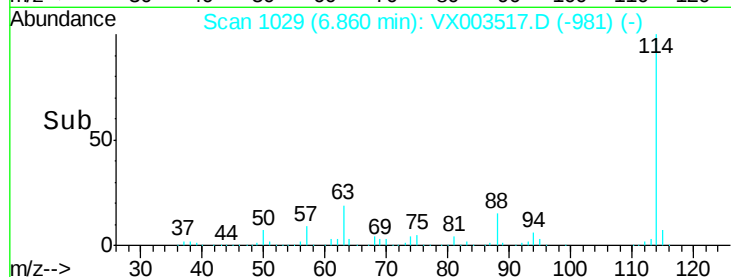
88 15.4 0.0 30.0



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: 48.44 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

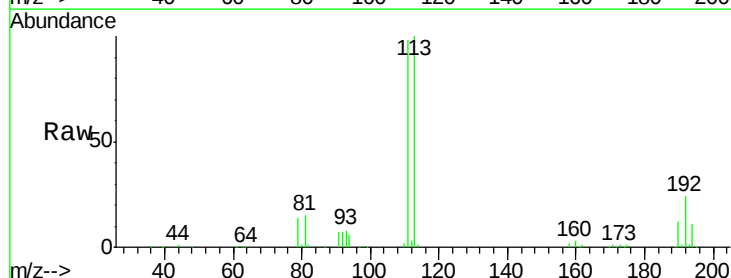
Tgt Ion:113 Resp: 141118

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

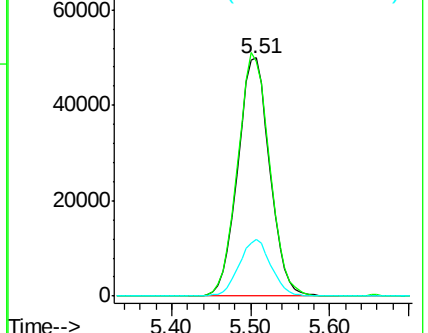
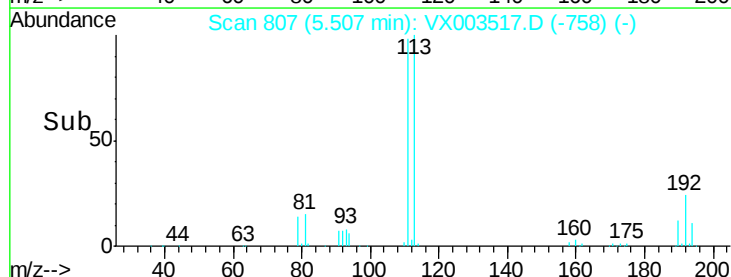
192 23.7 19.1 28.7

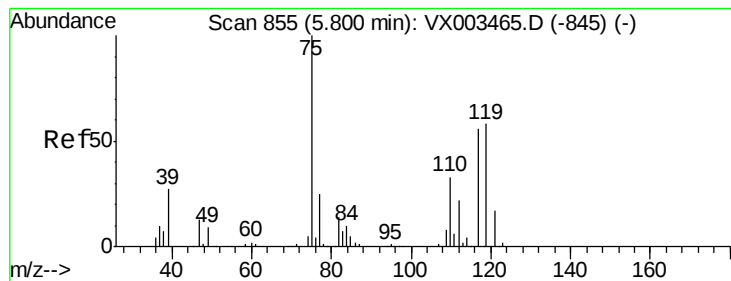


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.88 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

GW02-071118DL

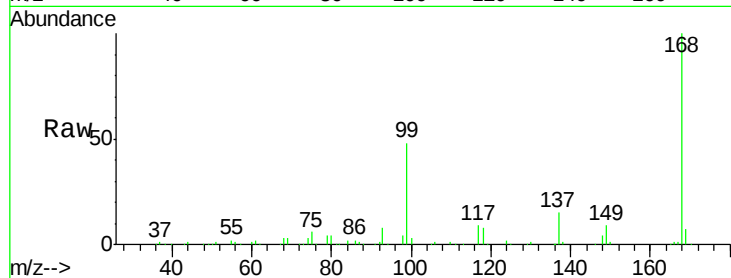
Tot Ion: 75 Resp: 16028

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

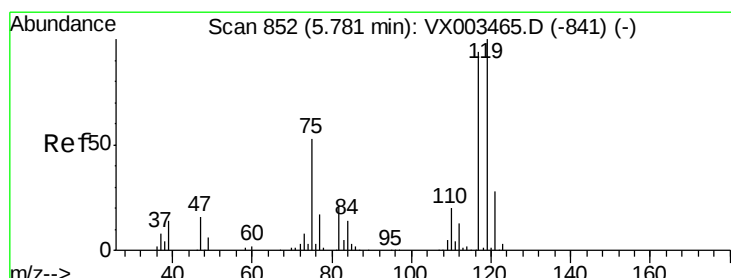
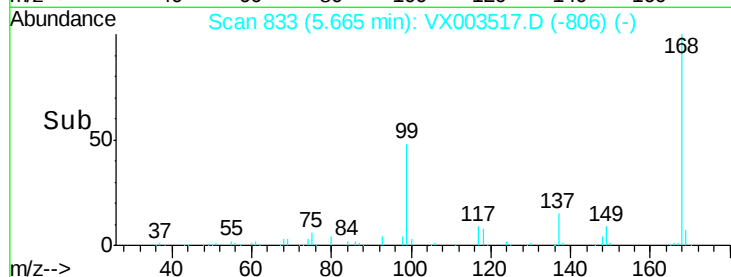
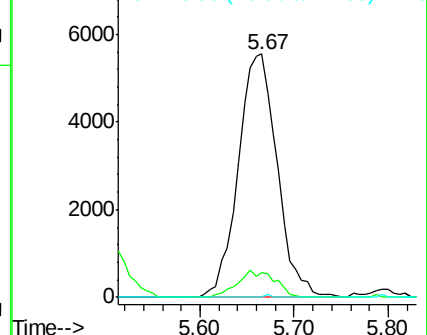
77 0.1 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.58 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

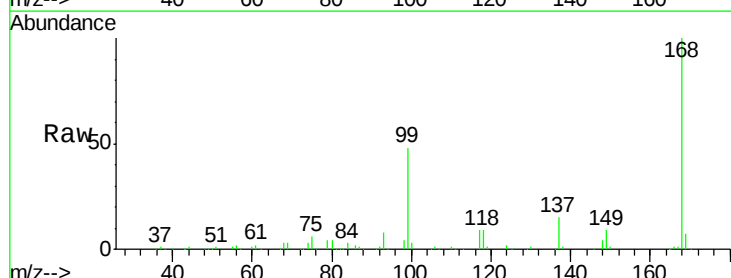
Tgt Ion: 117 Resp: 22587

Ion Ratio Lower Upper

117 100

119 6.5 77.4 116.0#

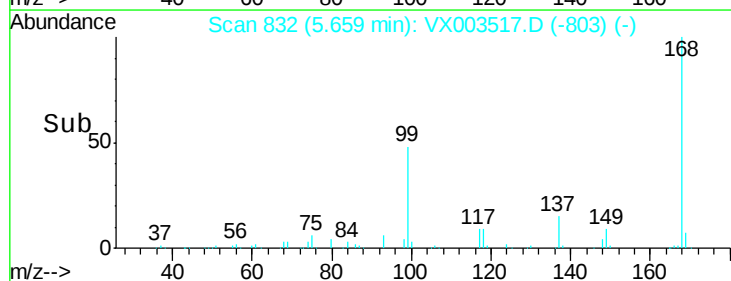
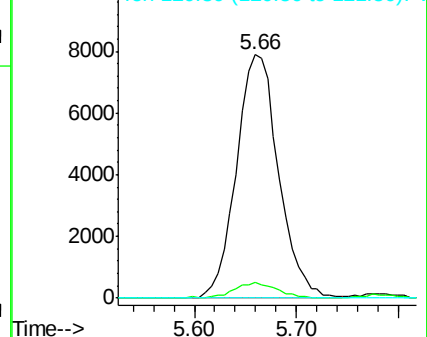
121 0.0 24.4 36.6#

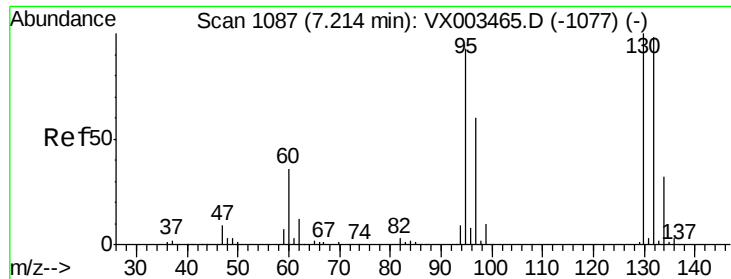


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 61.04 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

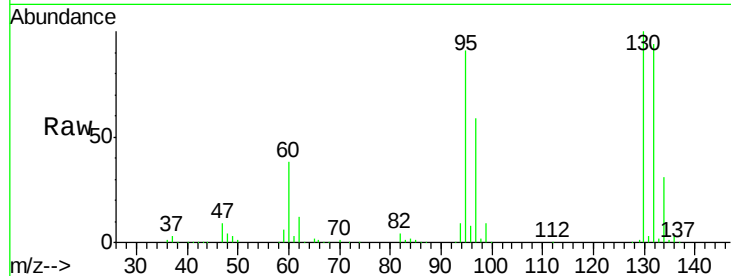
GW02-071118DL

Tot Ion:130 Resp: 226938

Ion Ratio Lower Upper

130 100

95 91.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

120000

100000

80000

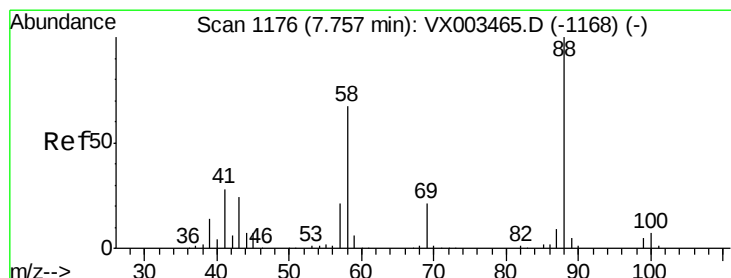
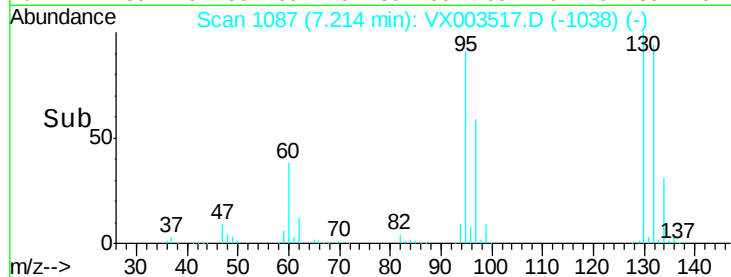
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 2.56 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

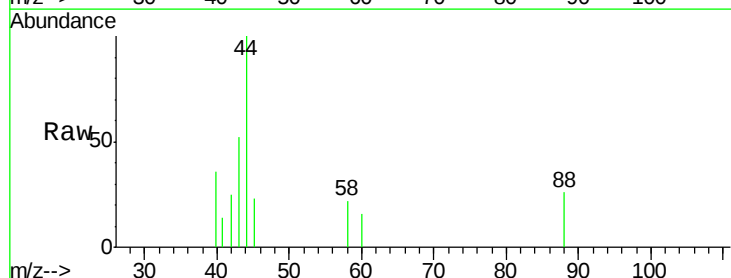
Tgt Ion: 88 Resp: 182

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

58 43.4 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

300

250

200

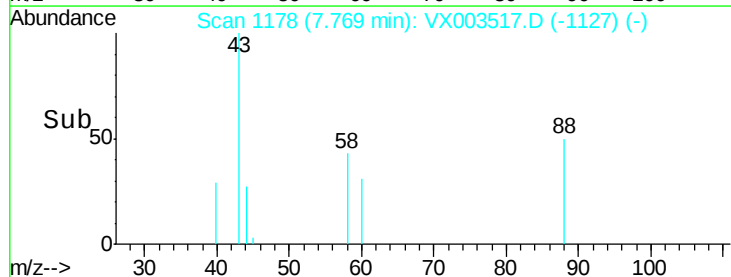
150

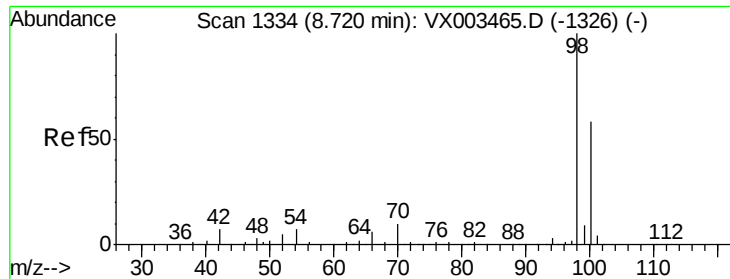
100

50

0

Time-->

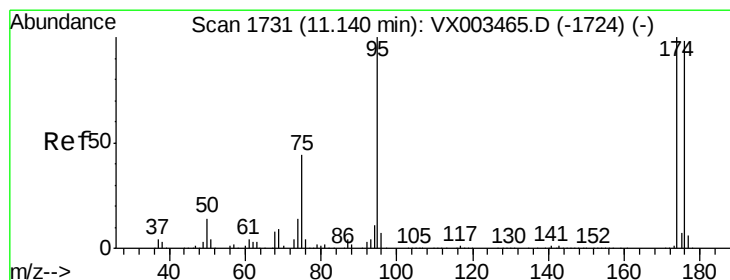
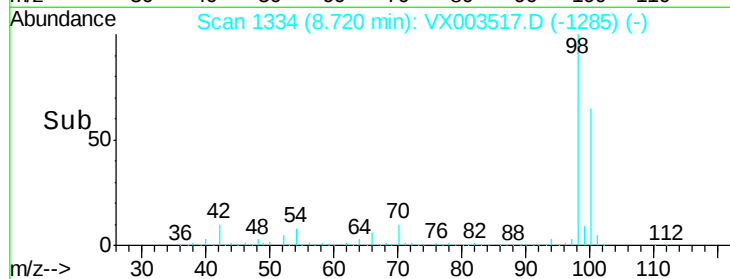
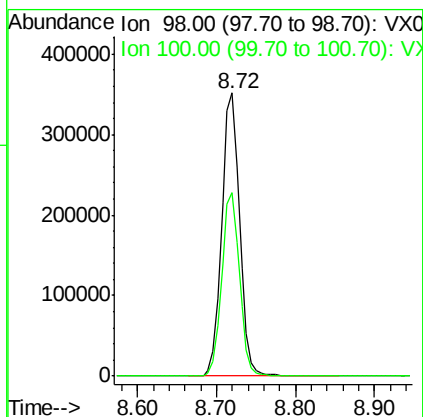
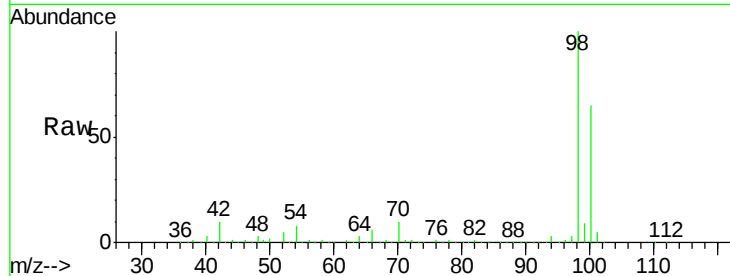




#50
Toluene-d8
Concen: 50.80 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003517.D
Acq: 20 Jul 2018 18:45

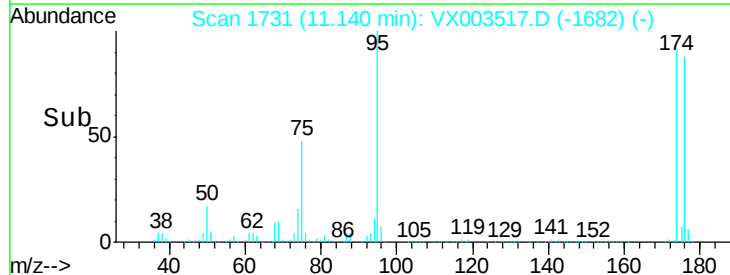
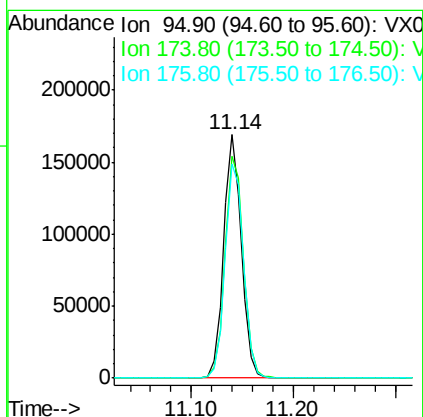
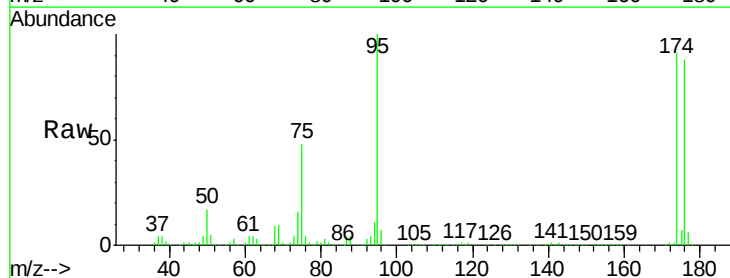
Instrument :
MSVOA_X
ClientSampleId :
GW02-071118DL

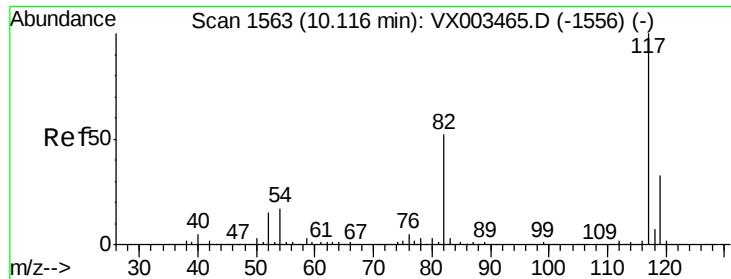
Tot Ion: 98 Resp: 556242
Ion Ratio Lower Upper
98 100
100 64.5 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 51.00 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003517.D
Acq: 20 Jul 2018 18:45

Tgt Ion: 95 Resp: 203773
Ion Ratio Lower Upper
95 100
174 94.5 0.0 187.4
176 91.4 0.0 181.0

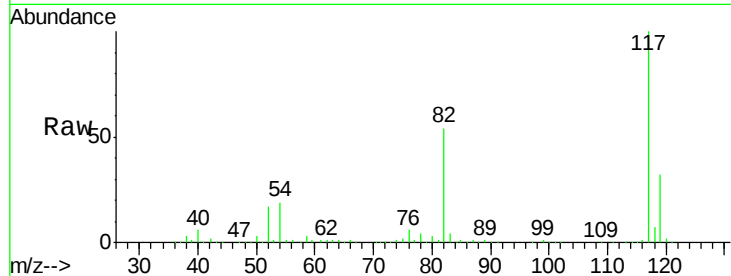




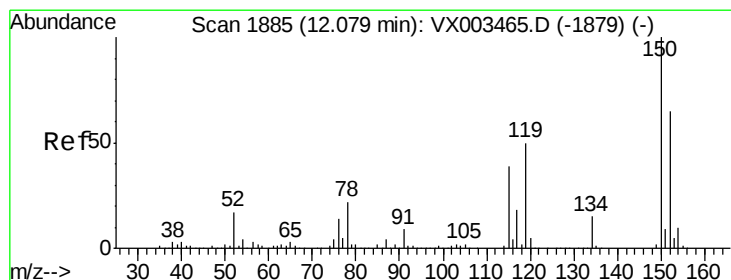
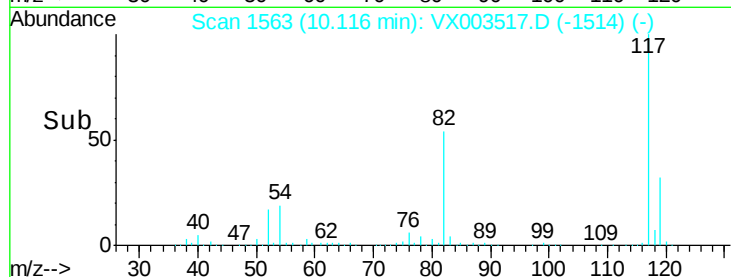
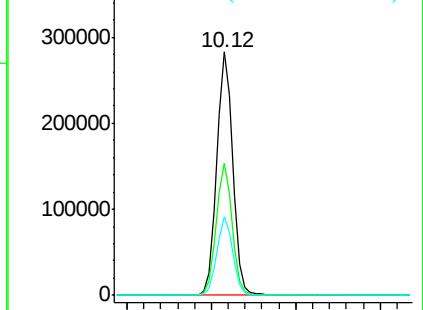
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003517.D
Acq: 20 Jul 2018 18:45

Instrument :
MSVOA_X
ClientSampled :
GW02-071118DL

Tot Ion:117 Resp: 375502
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 32.1 25.8 38.6

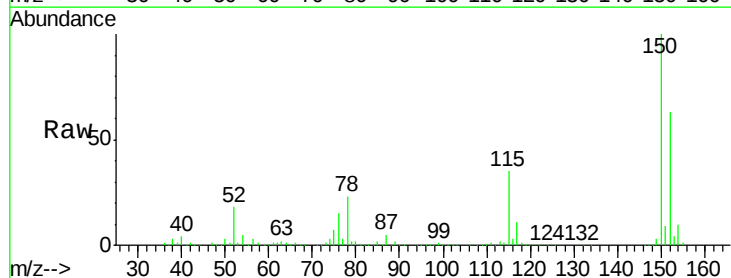


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

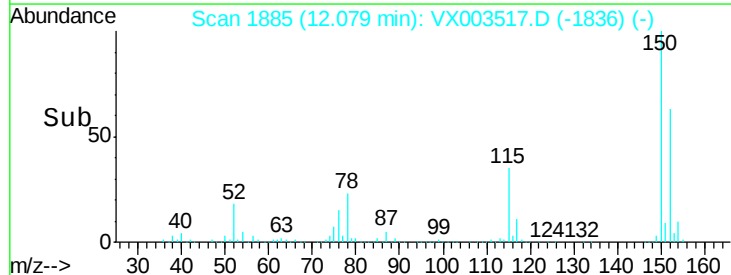
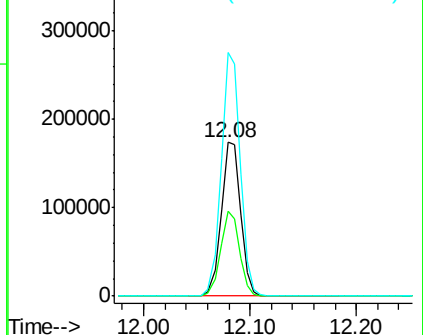


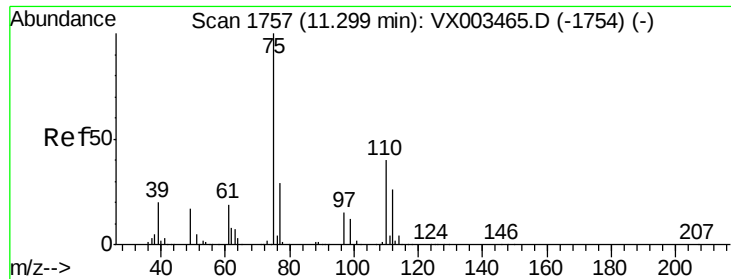
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003517.D
Acq: 20 Jul 2018 18:45

Tgt Ion:152 Resp: 220871
Ion Ratio Lower Upper
152 100
115 53.5 40.1 120.2
150 155.7 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: 24.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

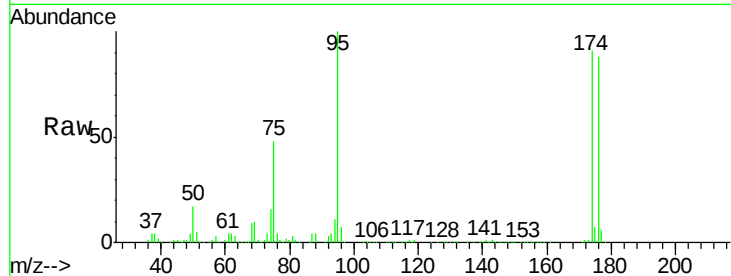
GW02-071118DL

Tot Ion: 75 Resp: 97758

Ion Ratio Lower Upper

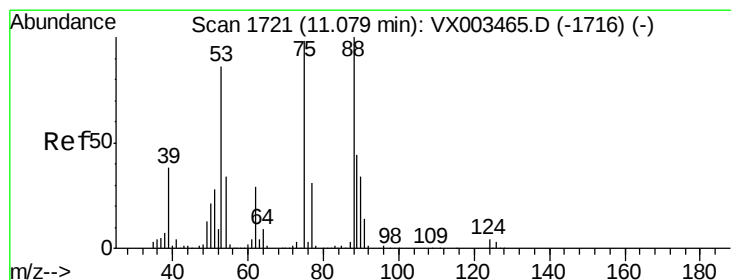
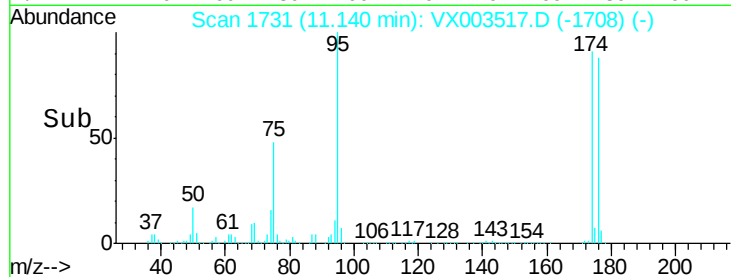
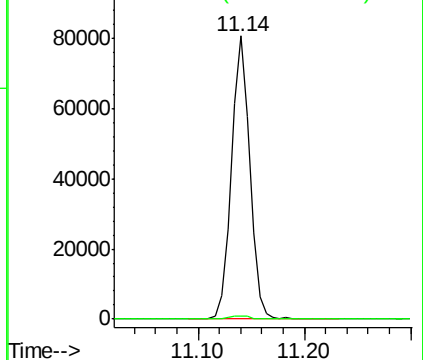
75 100

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: 69.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

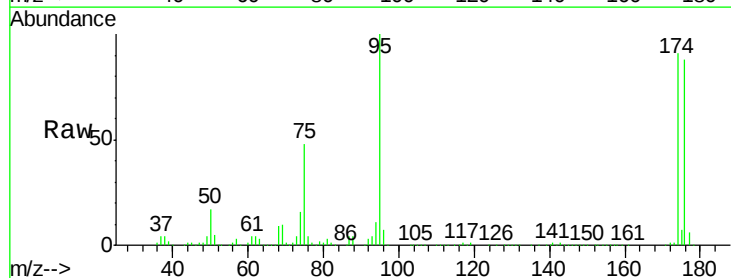
Tgt Ion: 75 Resp: 97758

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

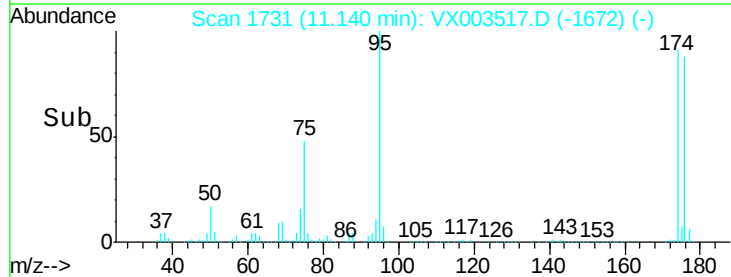
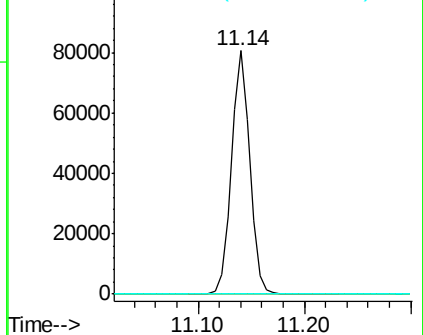
89 0.1 38.2 57.2#

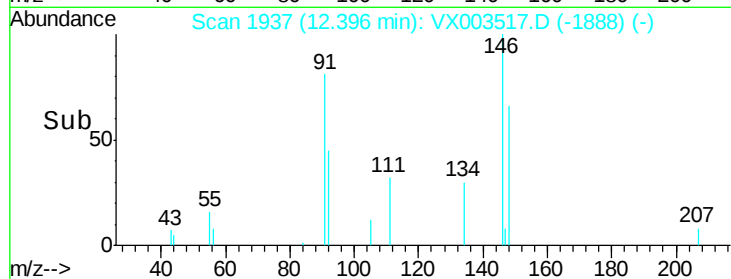
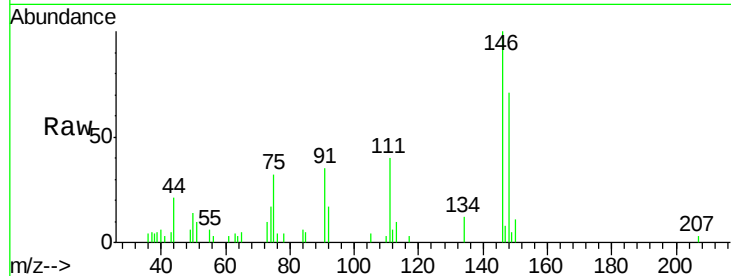
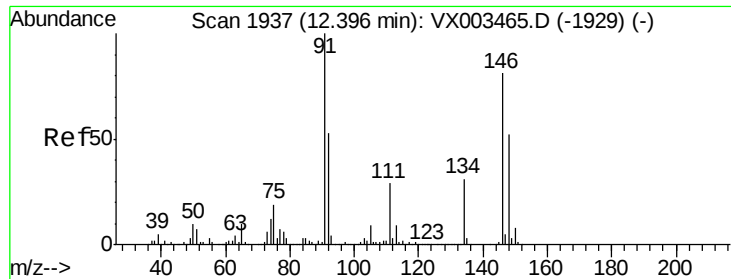


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#91

1,2-Dichlorobenzene

Concen: 0.34 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX003517.D

Acq: 20 Jul 2018 18:45

Instrument :

MSVOA_X

ClientSampleId :

GW02-071118DL

Tot Ion:146 Resp: 2677

Ion Ratio Lower Upper

146 100

111 40.7 19.4 58.1

148 70.0 31.7 95.1

