

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002965.D
 Acq On : 28 Jun 2018 04:52
 Operator : JC/MD
 Sample : J3618-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-16

Quant Time: Jun 28 06:52:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	271035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	379437	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	357788	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208845	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	181982	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
35) Dibromofluoromethane	5.51	113	147956	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
50) Toluene-d8	8.72	98	530544	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.14	95	194163	45.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.76%	

Target Compounds

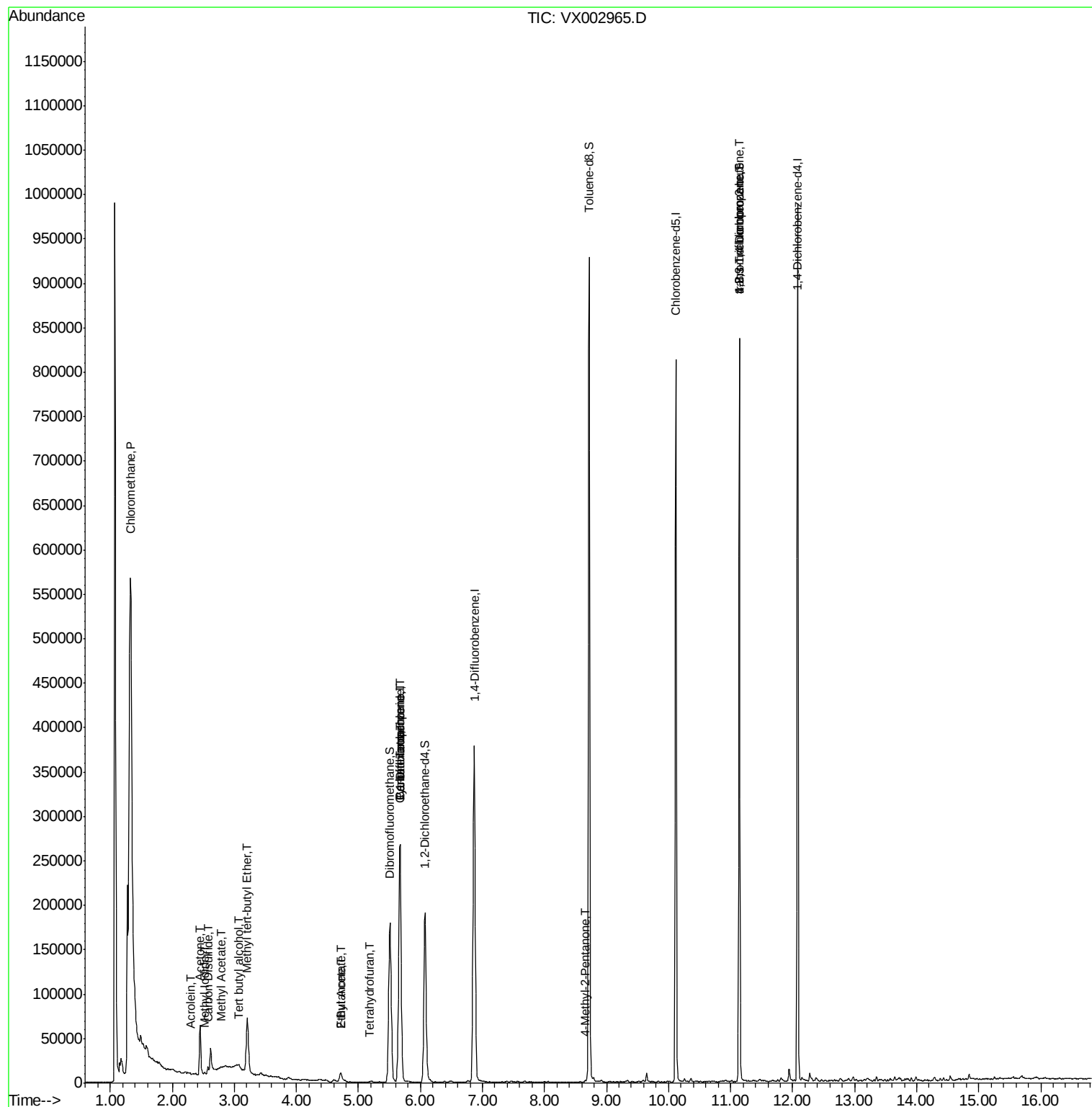
						Qvalue
2) Dichlorodifluoromethane	1.20	85	74	Below Cal	#	43
3) Chloromethane	1.32	50	30090	11.05	ug/l #	47
5) Bromomethane	1.65	94	1331	Below Cal		85
10) Methyl Iodide	2.52	142	3305	7.18	ug/l #	92
11) Tert butyl alcohol	3.07	59	5593	7.49	ug/l #	73
13) Acrolein	2.30	56	355	5.07	ug/l #	14
16) Acetone	2.45	43	59451	38.32	ug/l	98
17) Carbon Disulfide	2.57	76	12396	1.74	ug/l	97
18) Methyl Acetate	2.79	43	897	0.21	ug/l #	74
19) Methyl tert-butyl Ether	3.21	73	66060	6.87	ug/l	98
25) 2-Butanone	4.71	43	19368	8.41	ug/l	94
29) Tetrahydrofuran	5.17	42	335	0.23	ug/l #	54
31) Cyclohexane	5.66	56	5180	1.10	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	18207	4.38	ug/l #	51
37) Ethyl Acetate	4.71	43	19368	4.32	ug/l #	72
38) Carbon Tetrachloride	5.67	117	24654	5.40	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	1319	0.28	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	101863	26.93	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	101863	76.23	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampled :

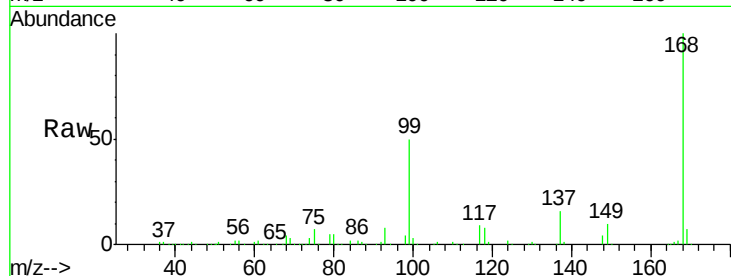
W-16

Tot Ion:168 Resp: 271035

Ion Ratio Lower Upper

168 100

99 49.6 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

100000

80000

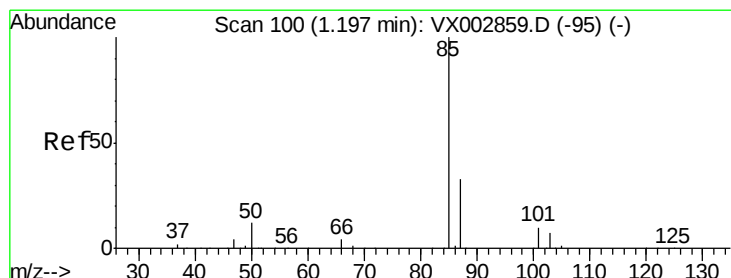
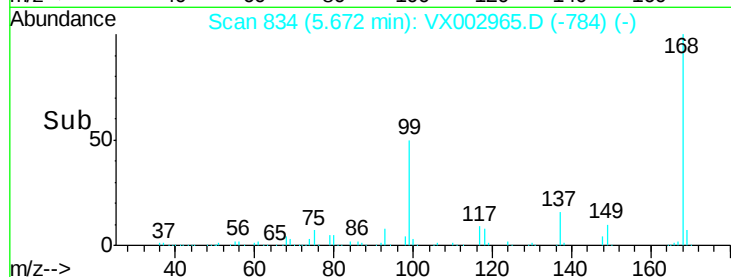
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX002965.D

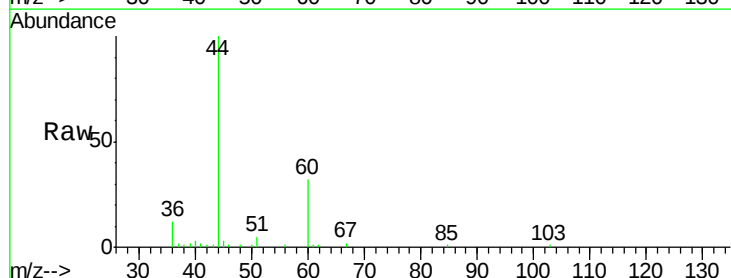
Acq: 28 Jun 2018 04:52

Tgt Ion: 85 Resp: 74

Ion Ratio Lower Upper

85 100

87 0.0 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

100

80

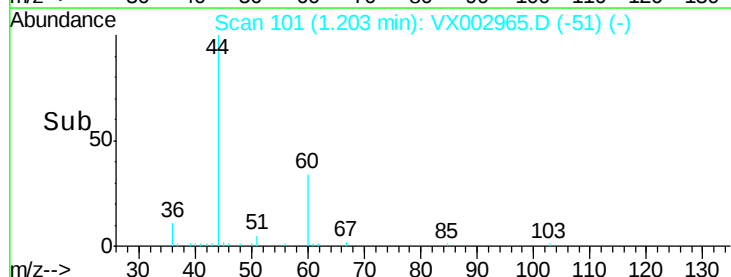
60

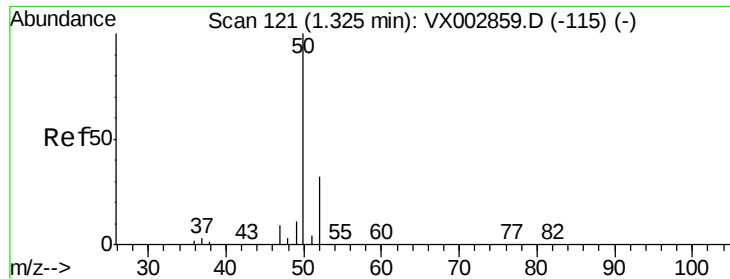
40

20

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 11.05 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

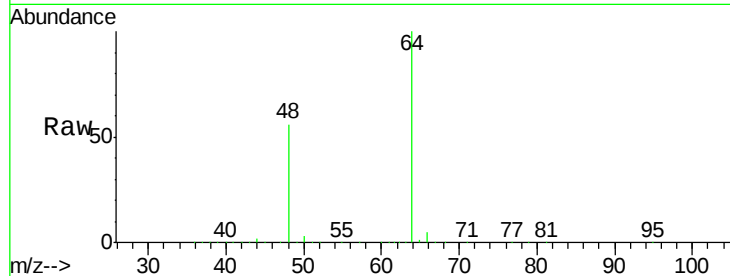
W-16

Tot Ion: 50 Resp: 30090

Ion Ratio Lower Upper

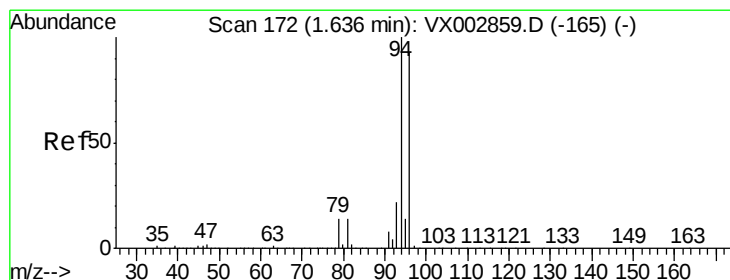
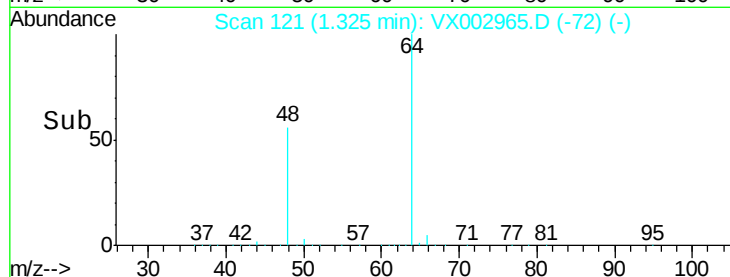
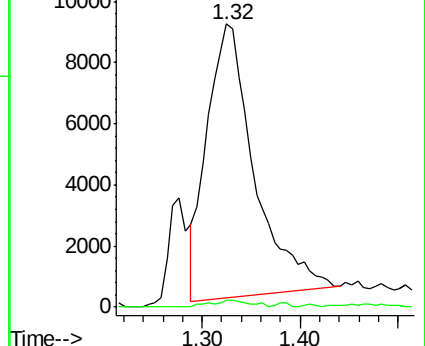
50 100

52 2.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002965.D

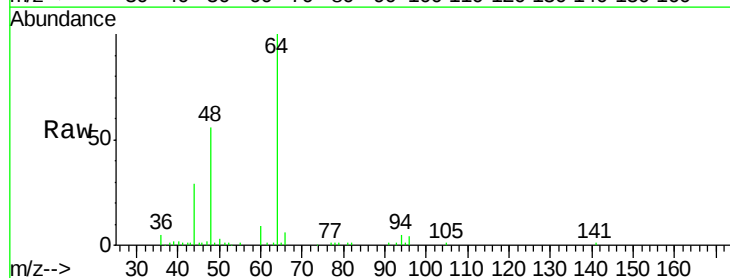
Acq: 28 Jun 2018 04:52

Tgt Ion: 94 Resp: 1331

Ion Ratio Lower Upper

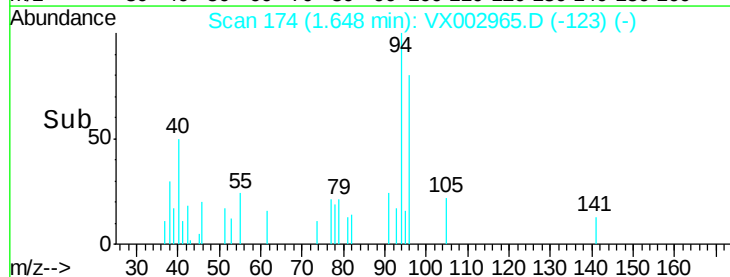
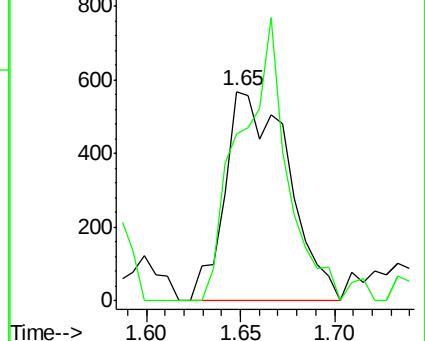
94 100

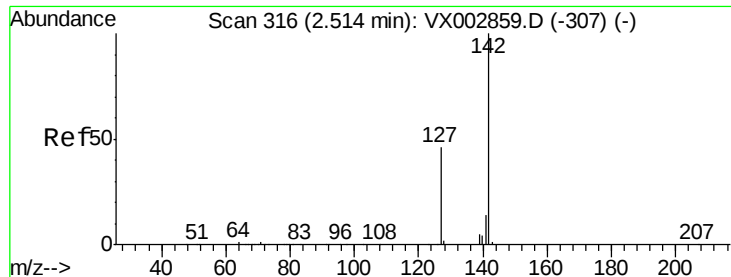
96 79.6 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

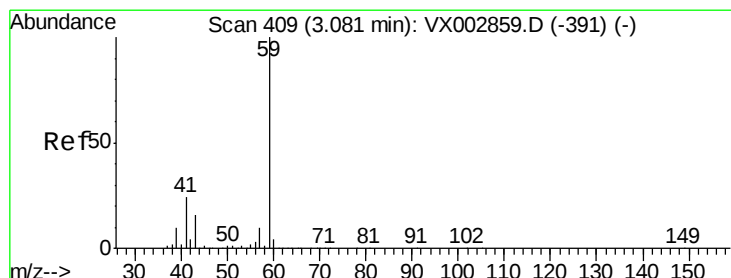
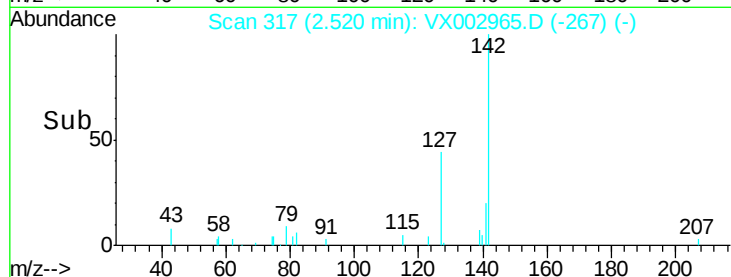
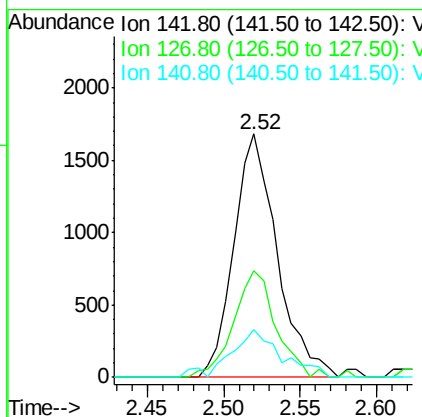
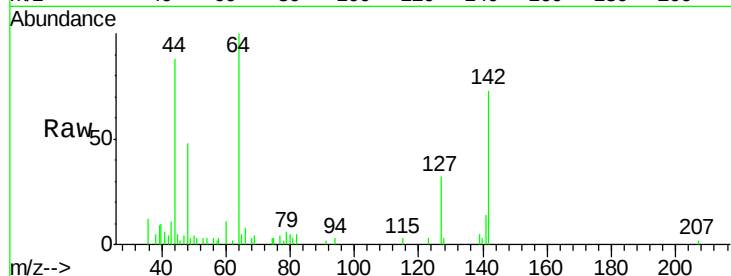




#10
Methyl Iodide
Concen: 7.18 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

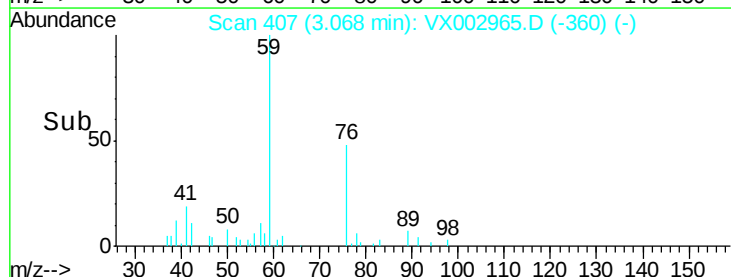
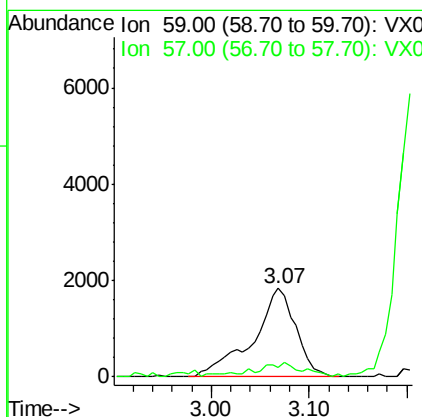
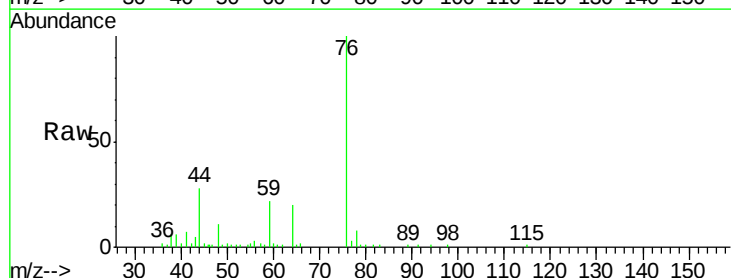
Instrument :
MSVOA_X
ClientSampled :
W-16

Tot Ion:142 Resp: 3305
Ion Ratio Lower Upper
142 100
127 42.9 36.6 55.0
141 23.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 7.49 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

Tgt Ion: 59 Resp: 5593
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 5.07 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

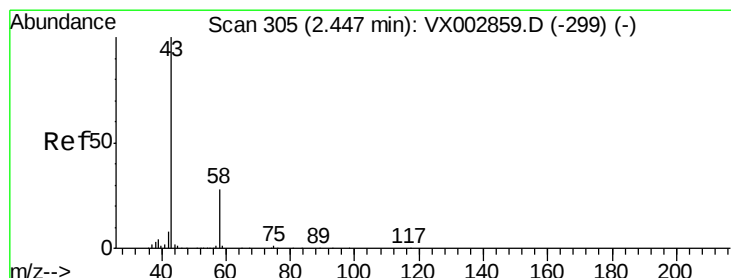
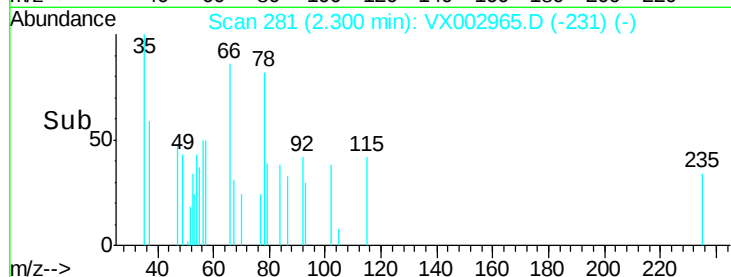
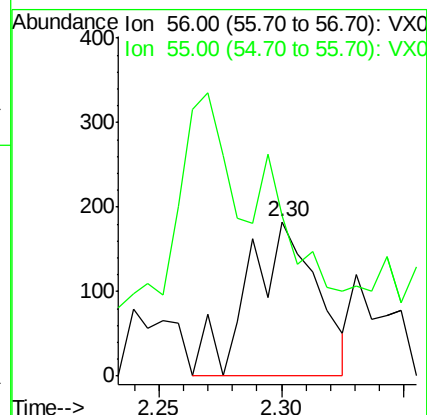
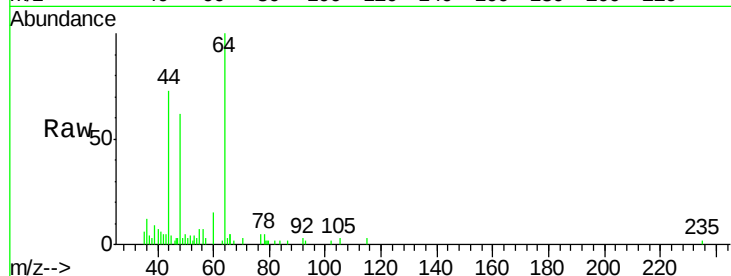
W-16

Tot Ion: 56 Resp: 355

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 38.32 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002965.D

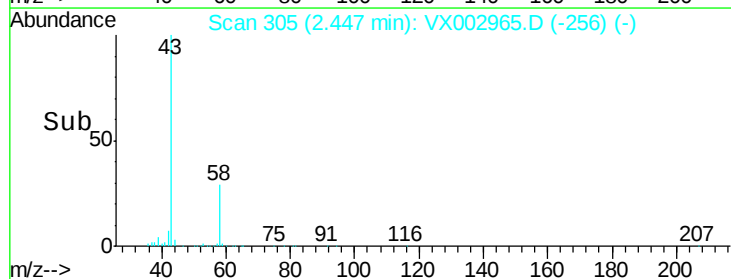
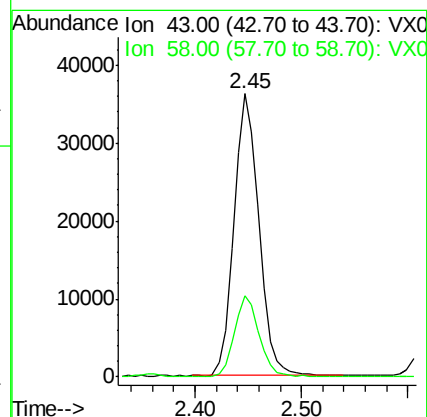
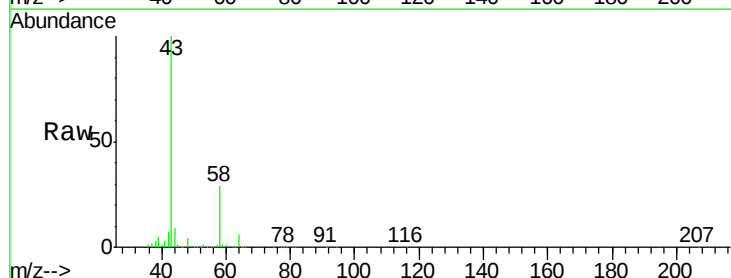
Acq: 28 Jun 2018 04:52

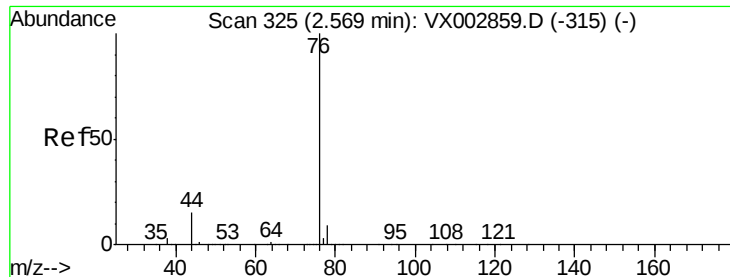
Tgt Ion: 43 Resp: 59451

Ion Ratio Lower Upper

43 100

58 28.9 22.1 33.1

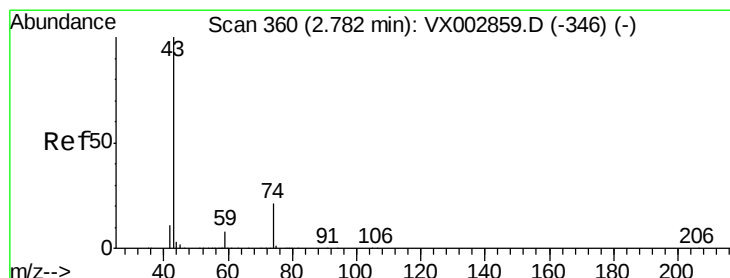
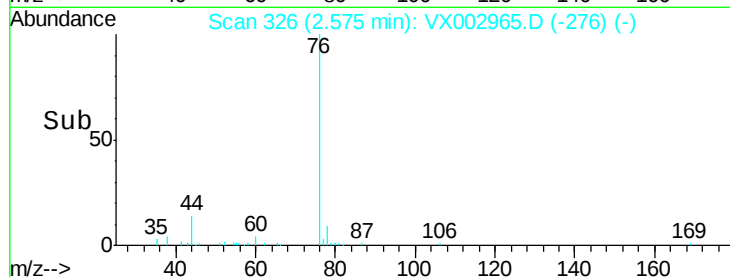
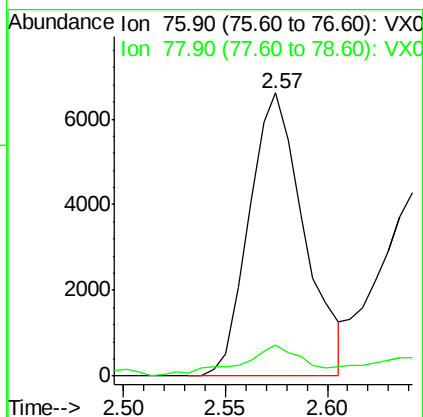
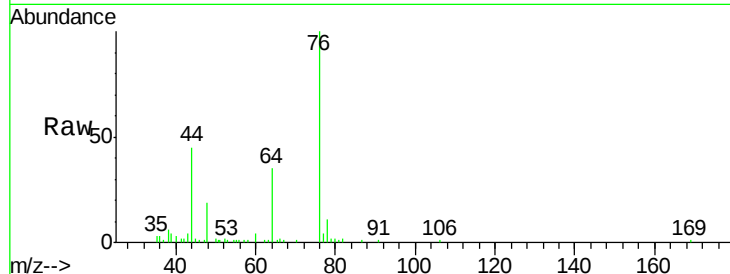




#17
Carbon Disulfide
Concen: 1.74 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

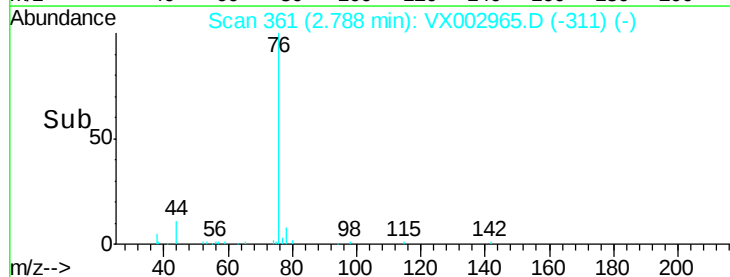
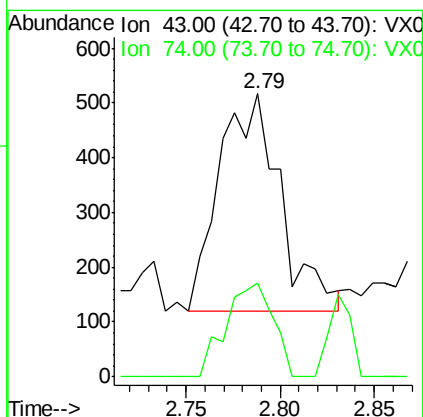
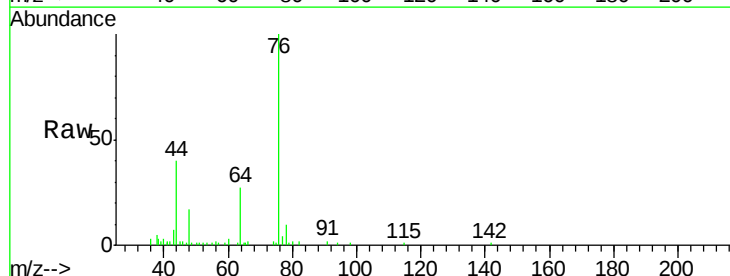
Instrument :
MSVOA_X
ClientSampleId :
W-16

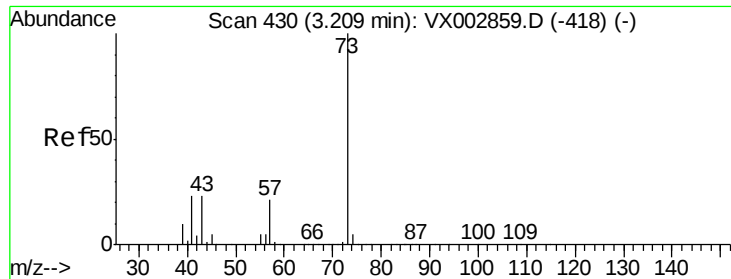
Tot Ion: 76 Resp: 12396
Ion Ratio Lower Upper
76 100
78 9.7 6.9 10.3



#18
Methyl Acetate
Concen: 0.21 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

Tgt Ion: 43 Resp: 897
Ion Ratio Lower Upper
43 100
74 33.1 16.7 25.1#

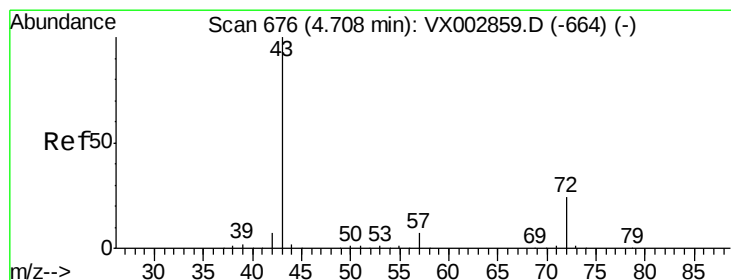
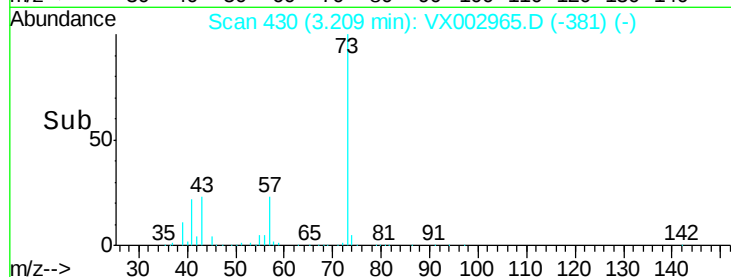
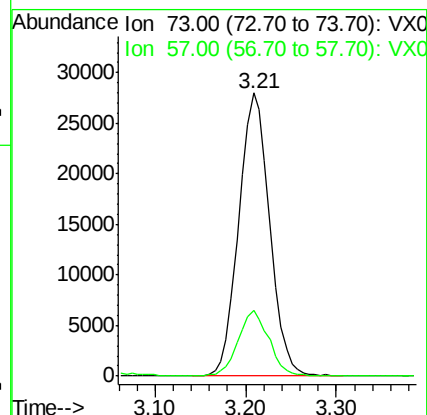
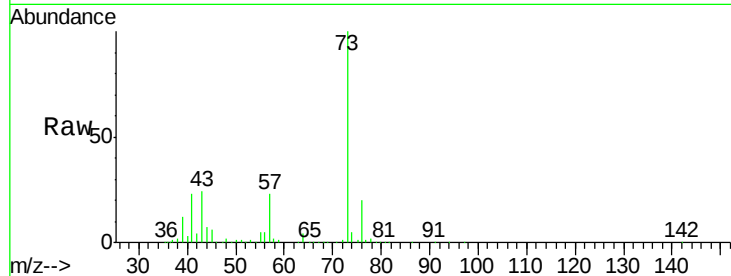




#19
Methvl tert-butvl Ether
Concen: 6.87 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

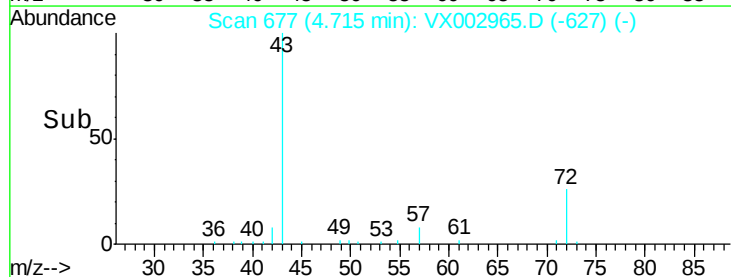
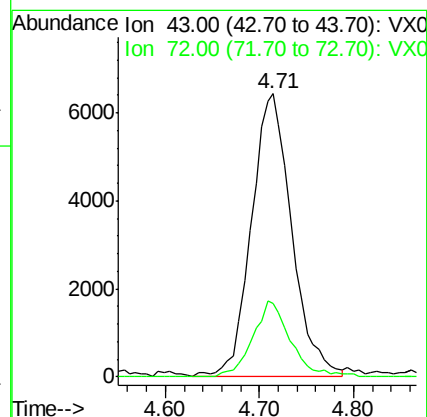
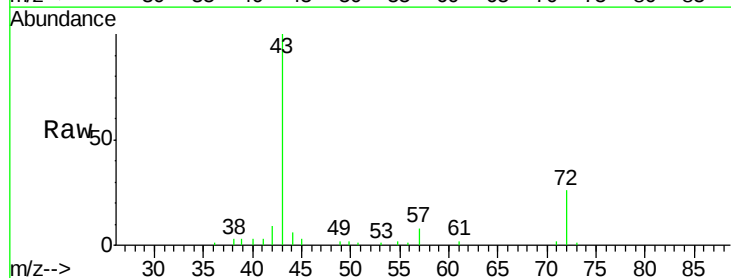
Instrument :
MSVOA_X
ClientSampleId :
W-16

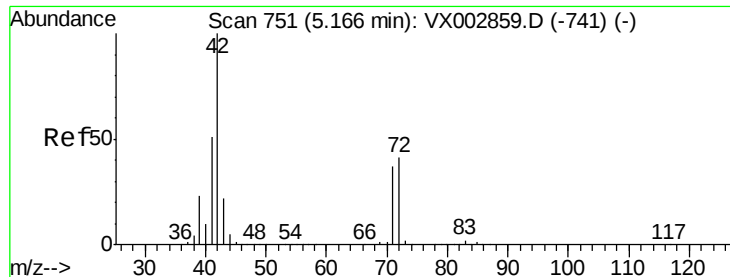
Tot Ion: 73 Resp: 66060
Ion Ratio Lower Upper
73 100
57 23.2 17.7 26.5



#25
2-Butanone
Concen: 8.41 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

Tgt Ion: 43 Resp: 19368
Ion Ratio Lower Upper
43 100
72 26.0 18.5 27.7

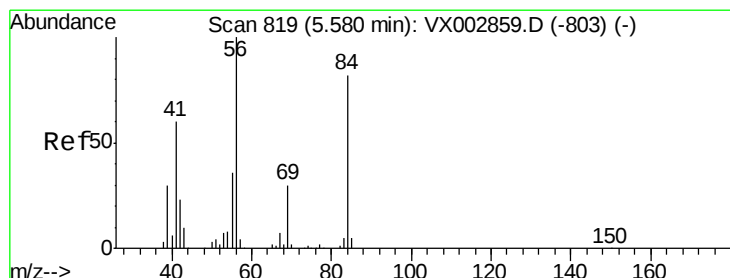
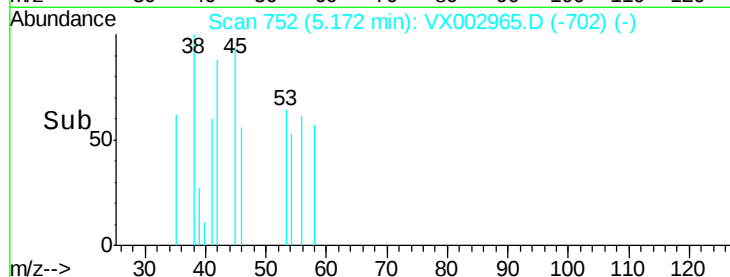
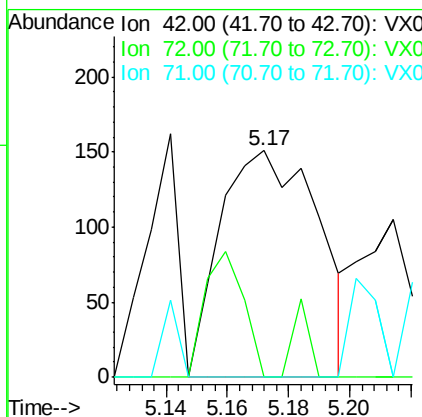
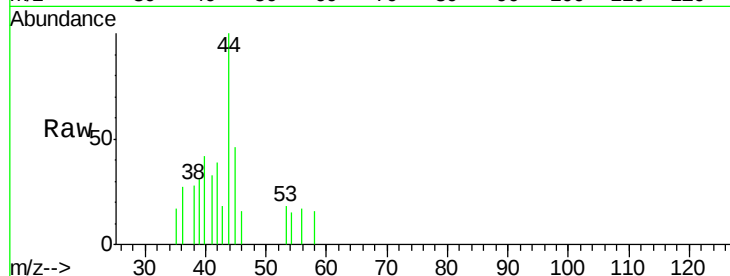




#29
Tetrahydrofuran
Concen: 0.23 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

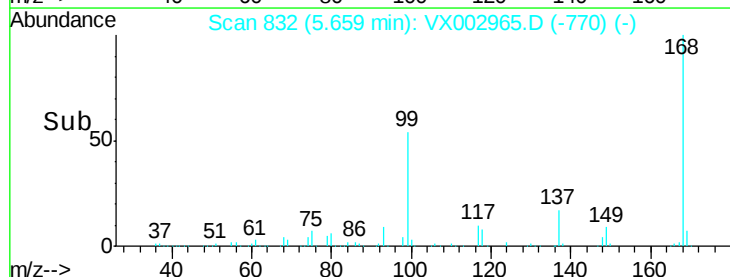
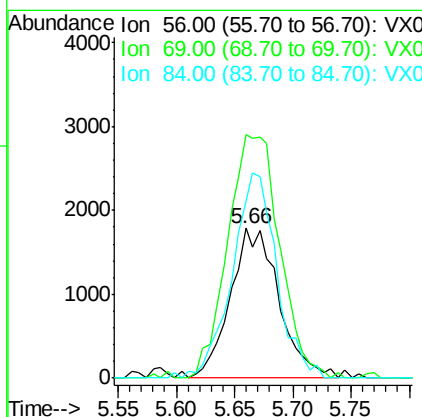
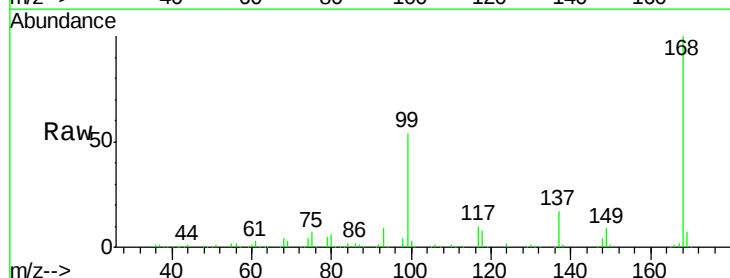
Instrument :
MSVOA_X
ClientSampled :
W-16

Tot Ion: 42 Resp: 335
Ion Ratio Lower Upper
42 100
72 21.8 32.0 48.0#
71 0.0 30.1 45.1#



#31
Cyclohexane
Concen: 1.10 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX002965.D
Acq: 28 Jun 2018 04:52

Tgt Ion: 56 Resp: 5180
Ion Ratio Lower Upper
56 100
69 162.3 23.7 35.5#
84 118.1 64.1 96.1#

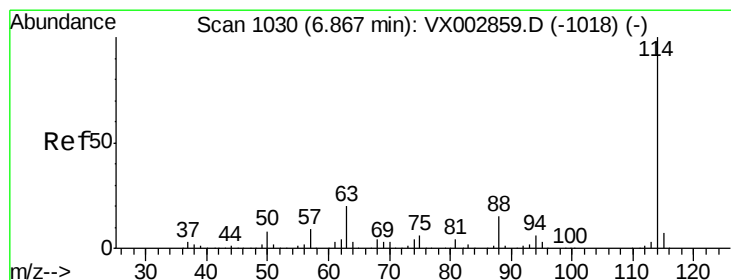
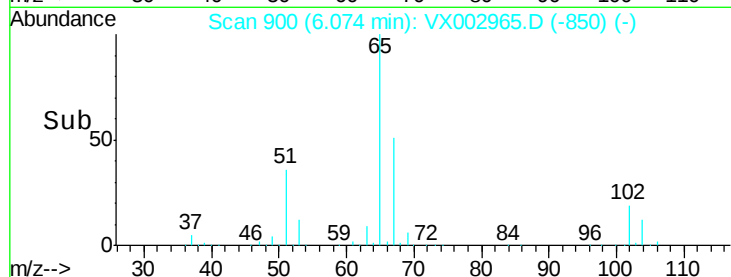
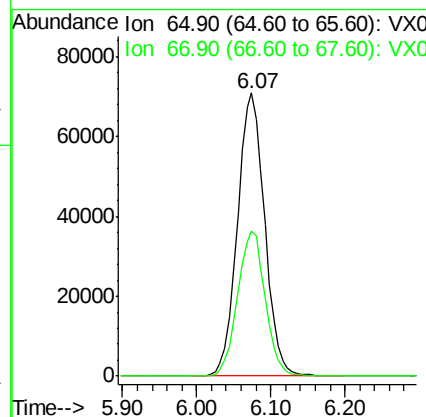
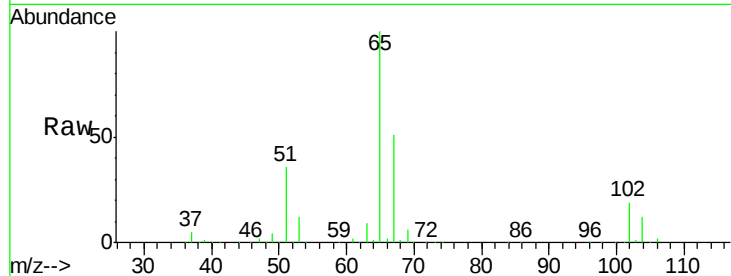




#33
 1,2-Dichloroethane-d4
 Concen: 48.58 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002965.D
 Acq: 28 Jun 2018 04:52

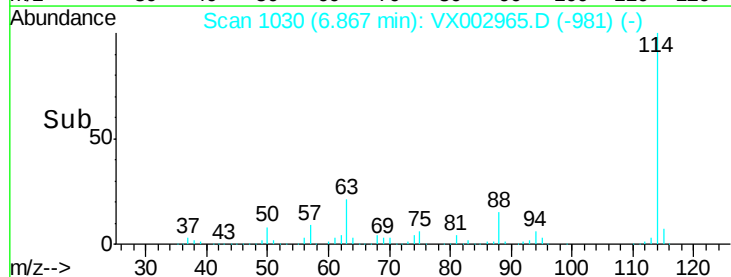
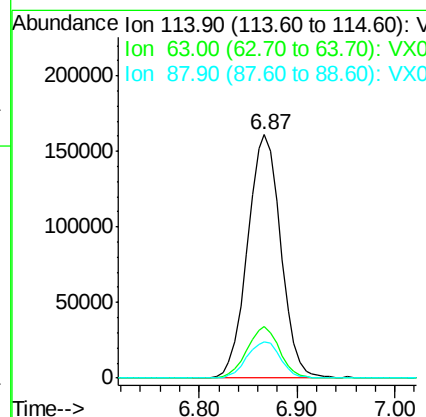
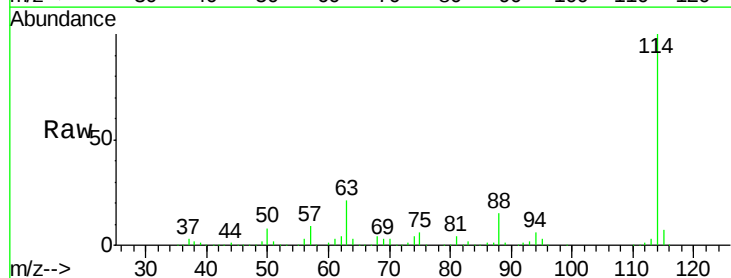
Instrument :
 MSVOA_X
 ClientSampleId :
 W-16

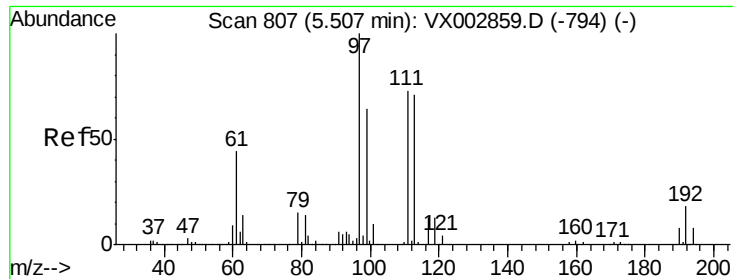
Tot Ion: 65 Resp: 181982
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002965.D
 Acq: 28 Jun 2018 04:52

Tgt Ion: 114 Resp: 379437
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 41.4
 88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.24 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

W-16

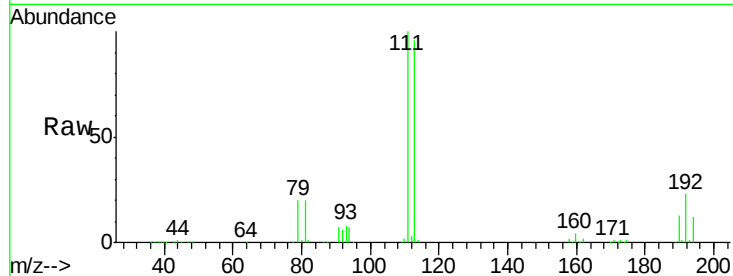
Tot Ion:113 Resp: 147956

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

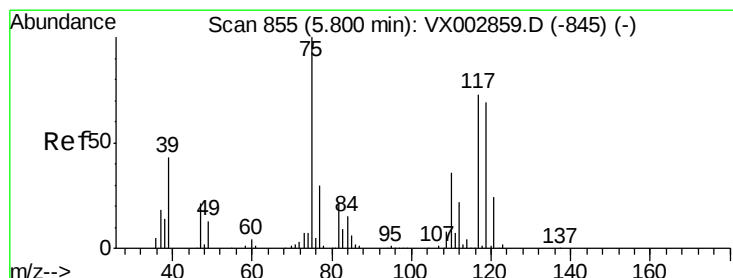
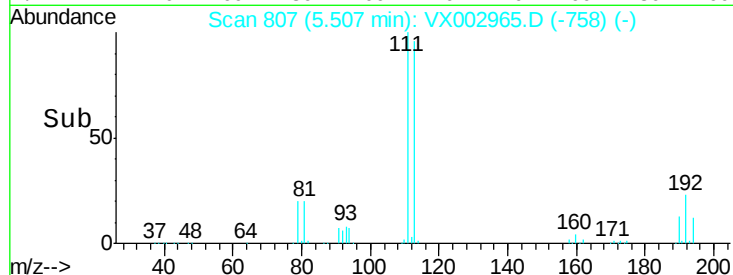
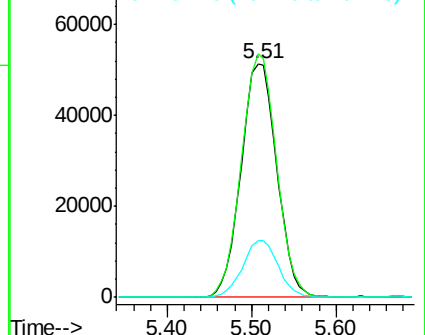
192 24.3 19.1 28.7



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: 4.38 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

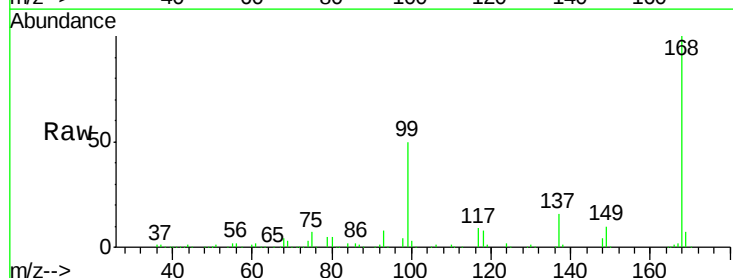
Tgt Ion: 75 Resp: 18207

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

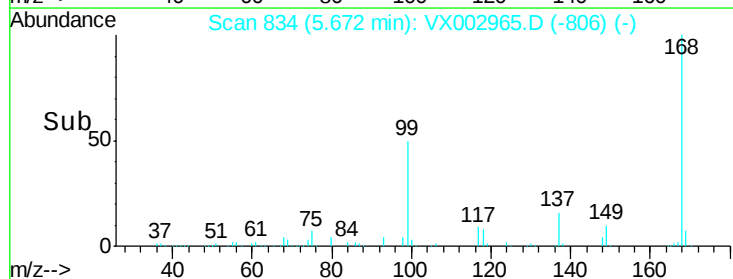
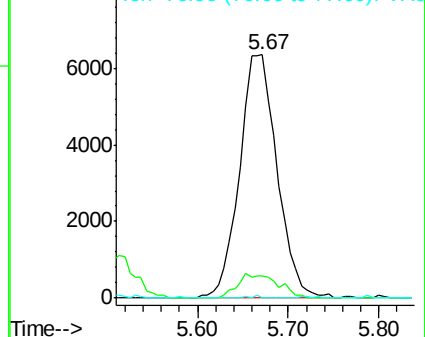
77 0.1 24.3 36.5#

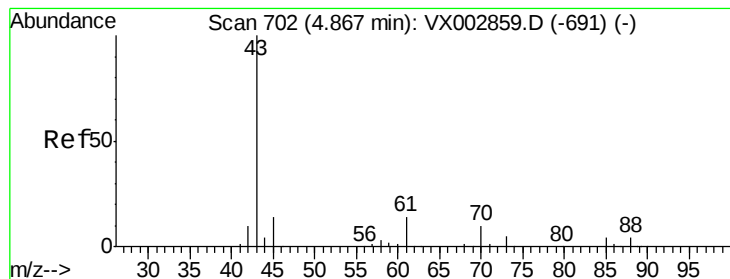


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 4.32 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

W-16

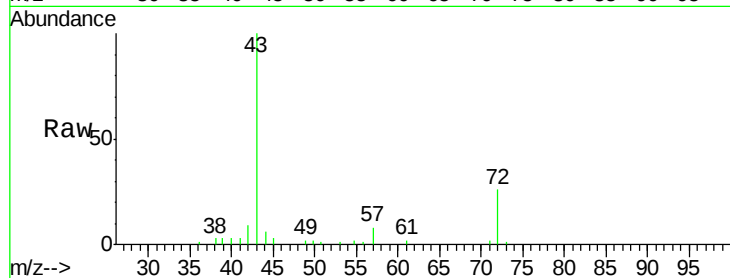
Tot Ion: 43 Resp: 19368

Ion Ratio Lower Upper

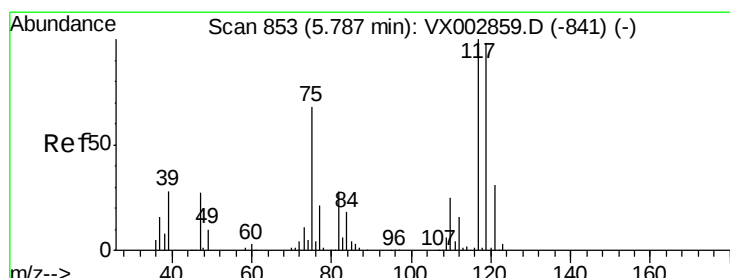
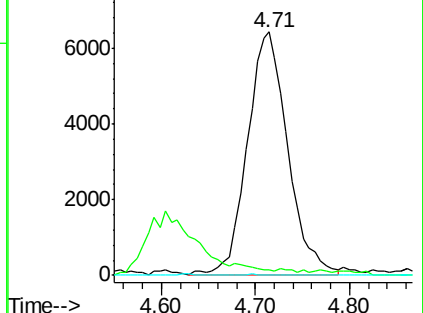
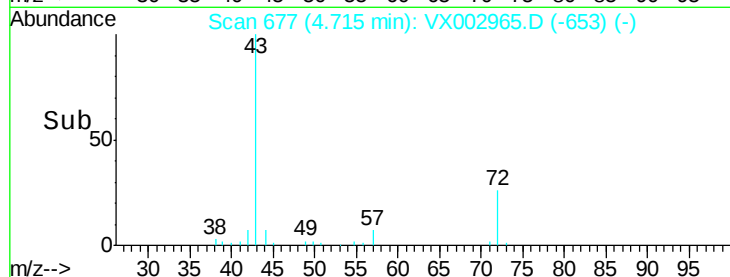
43 100

61 1.1 10.4 15.6#

70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX002965.D (-653) (-)



#38

Carbon Tetrachloride

Concen: 5.40 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

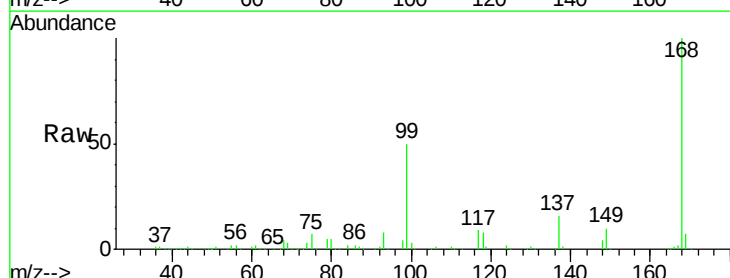
Tgt Ion: 117 Resp: 24654

Ion Ratio Lower Upper

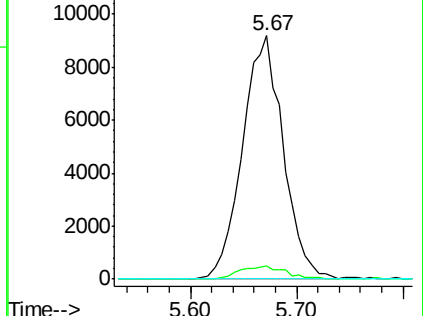
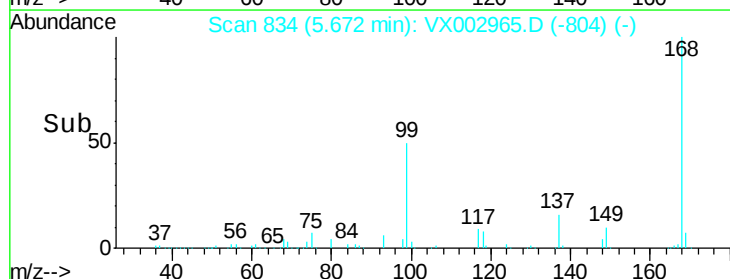
117 100

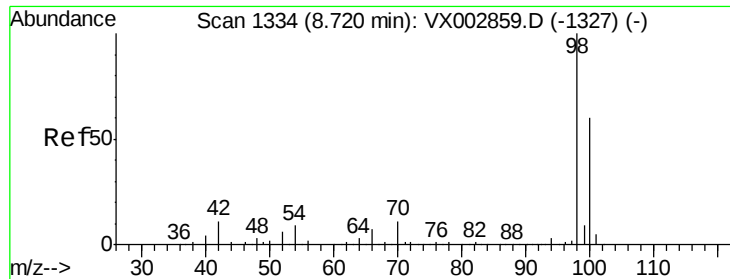
119 5.5 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX002965.D (-804) (-)





#50

Toluene-d8

Concen: 48.35 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

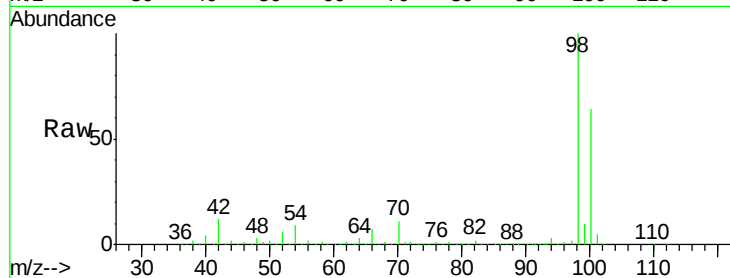
W-16

Tot Ion: 98 Resp: 530544

Ion Ratio Lower Upper

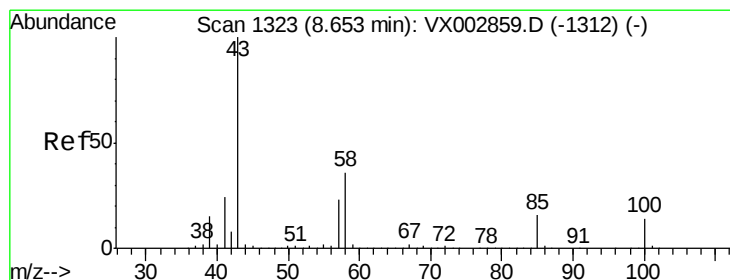
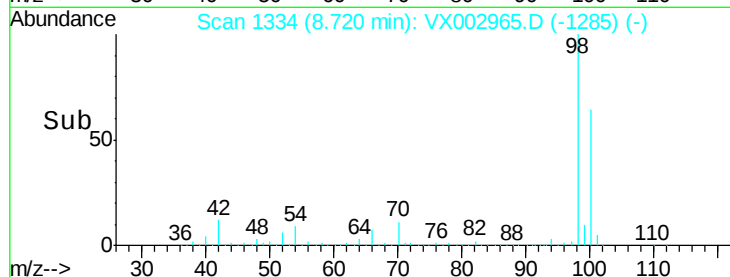
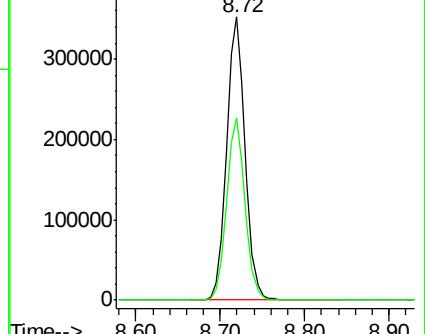
98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.28 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002965.D

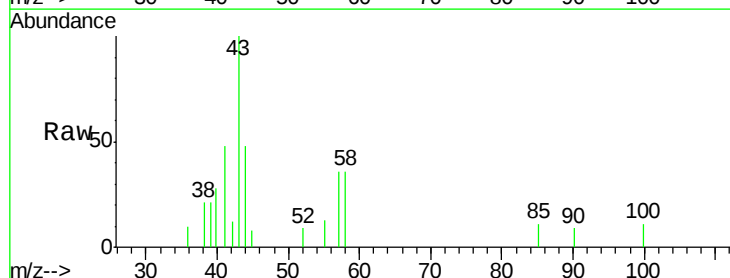
Acq: 28 Jun 2018 04:52

Tgt Ion: 43 Resp: 1319

Ion Ratio Lower Upper

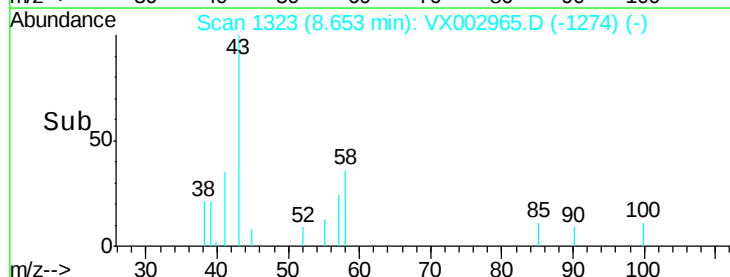
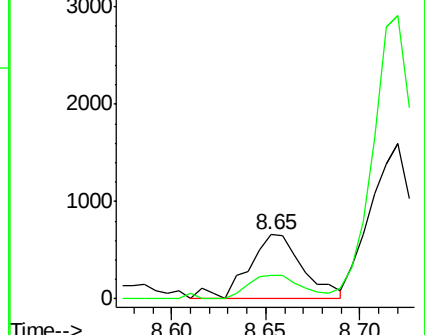
43 100

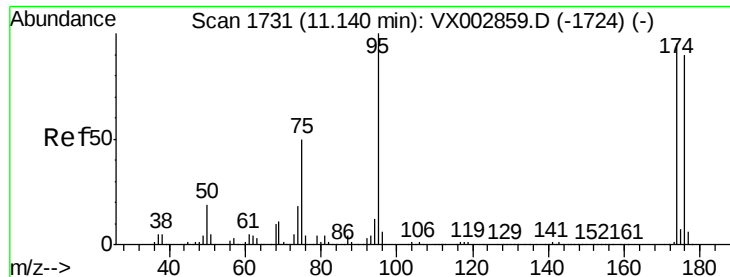
58 36.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampled :

W-16

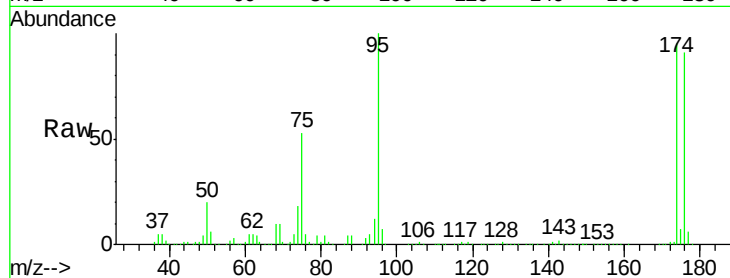
Tot Ion: 95 Resp: 194163

Ion Ratio Lower Upper

95 100

174 96.9 0.0 187.4

176 93.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

11.14

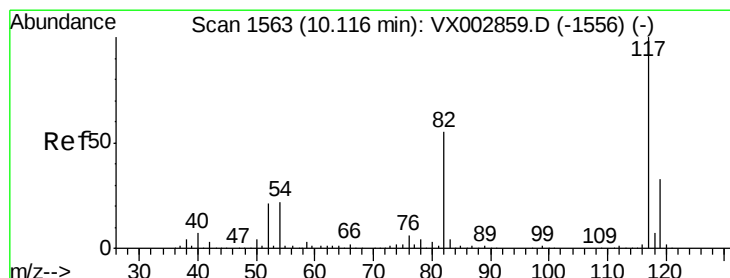
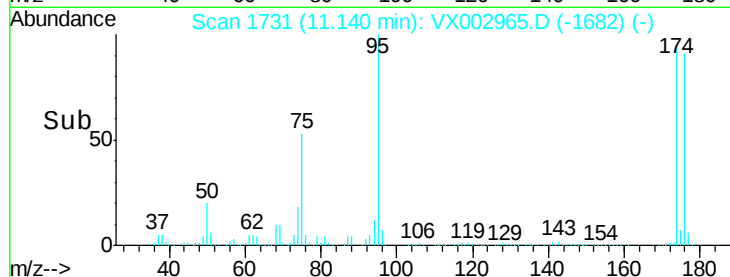
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

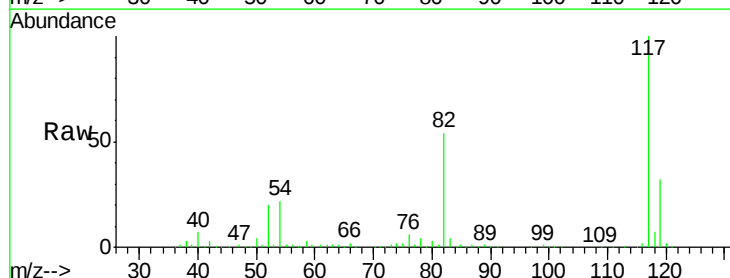
Tgt Ion: 117 Resp: 357788

Ion Ratio Lower Upper

117 100

82 54.2 45.0 67.4

119 32.5 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

10.12

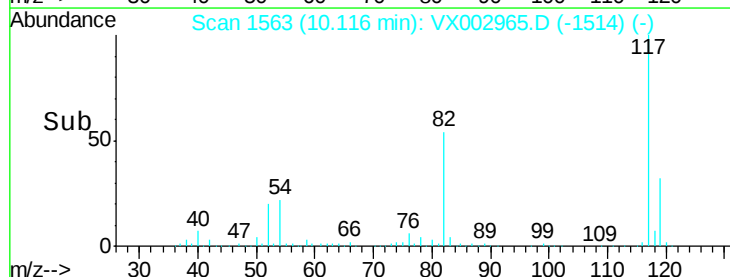
300000

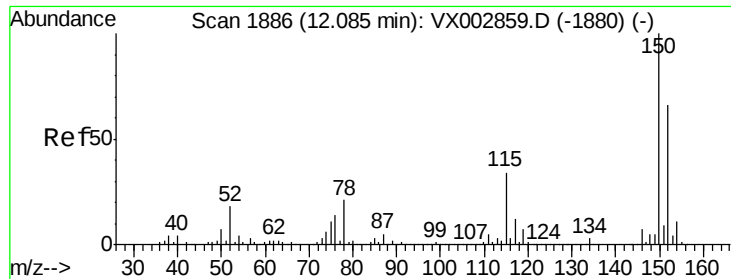
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

W-16

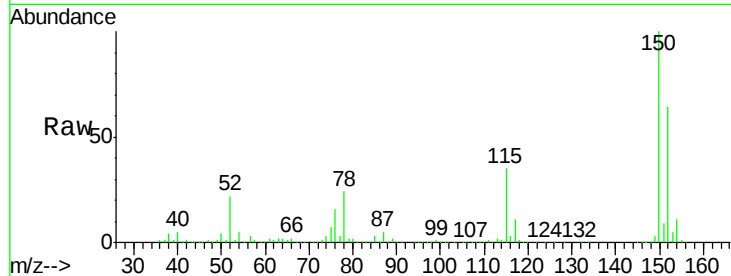
Tot Ion:152 Resp: 208845

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

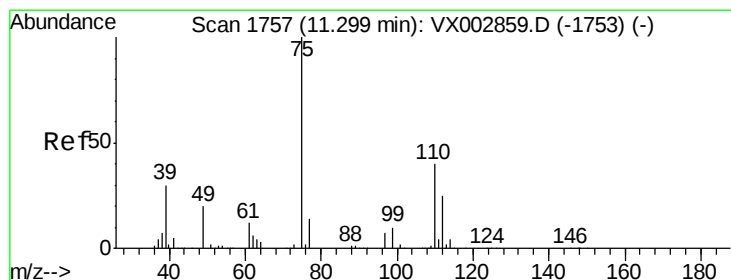
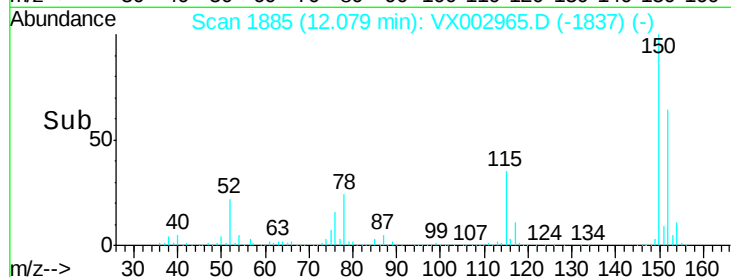
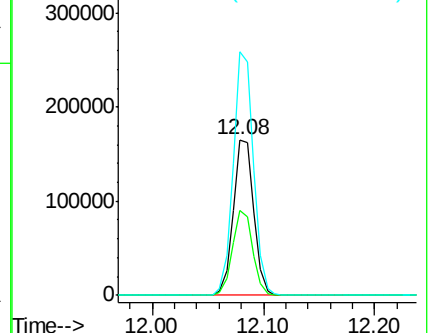
150 155.1 0.0 347.2



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: 26.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002965.D

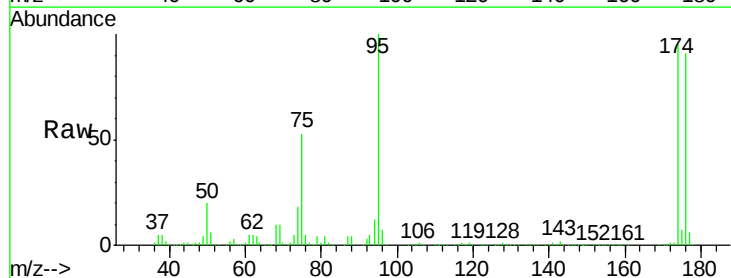
Acq: 28 Jun 2018 04:52

Tgt Ion: 75 Resp: 101863

Ion Ratio Lower Upper

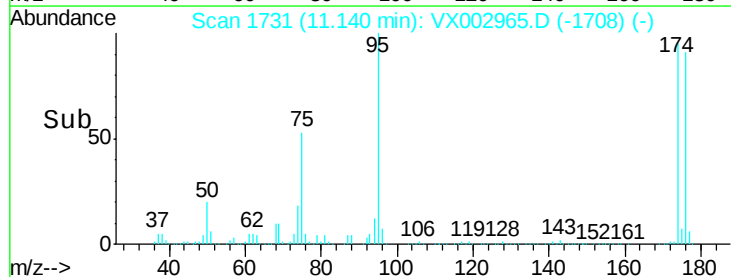
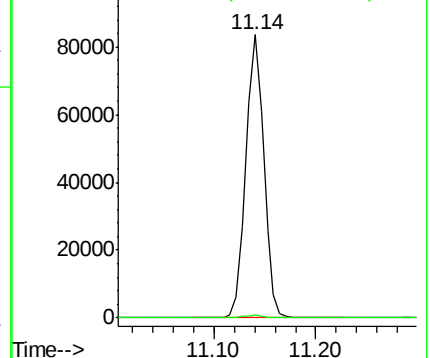
75 100

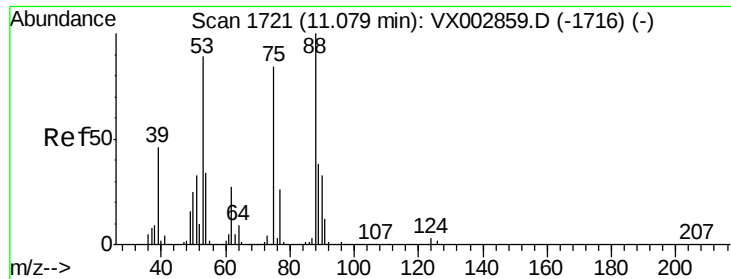
77 1.2 22.8 68.3#



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: 76.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002965.D

Acq: 28 Jun 2018 04:52

Instrument :

MSVOA_X

ClientSampleId :

W-16

Tot Ion: 75 Resp: 101863

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

