

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003270.D
 Acq On : 10 Jul 2018 03:10
 Operator : JC/MD
 Sample : J3585-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01RE

Quant Time: Jul 10 03:37:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	271840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	373048	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	333540	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	185592	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	166782	38.98	ug/l	0.00
Spiked Amount			Recovery	=	77.96%	
35) Dibromofluoromethane	5.51	113	144395	36.03	ug/l	0.00
Spiked Amount			Recovery	=	72.06%	
50) Toluene-d8	8.72	98	510958	35.89	ug/l	0.00
Spiked Amount			Recovery	=	71.78%	
62) 4-Bromofluorobenzene	11.14	95	171666	32.64	ug/l	0.00
Spiked Amount			Recovery	=	65.28%	

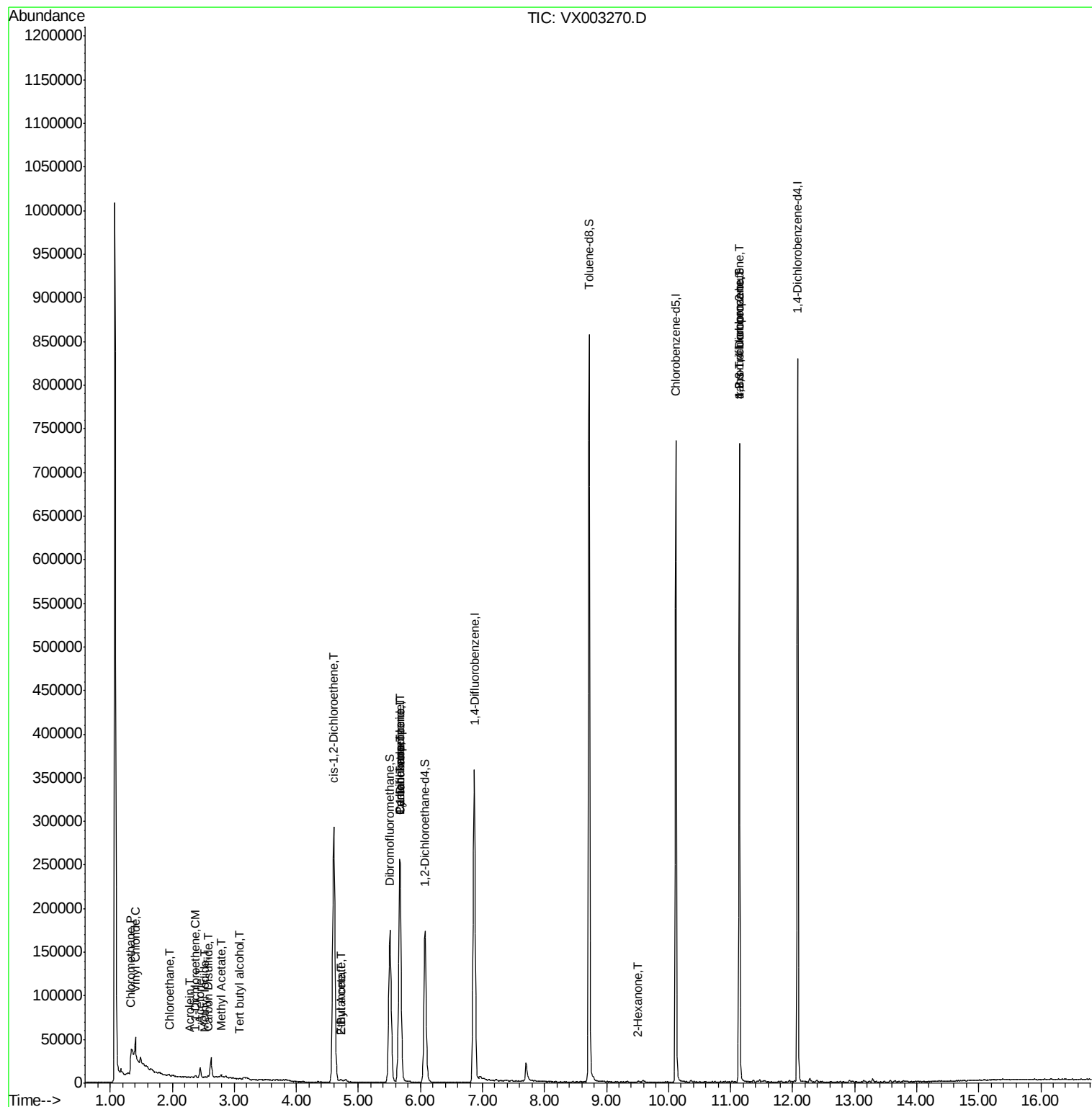
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2078	0.55	ug/l #	73
4) Vinyl Chloride	1.40	62	13542	3.51	ug/l #	64
5) Bromomethane	1.65	94	1970	Below Cal		82
6) Chloroethane	1.95	64	865	0.40	ug/l #	57
10) Methyl Iodide	2.52	142	1535	6.02	ug/l	98
11) Tert butyl alcohol	3.07	59	352	0.45	ug/l #	39
12) 1,1-Dichloroethene	2.38	96	631	0.21	ug/l #	68
13) Acrolein	2.29	56	150	0.24	ug/l #	1
16) Acetone	2.45	43	13702	9.02	ug/l	96
17) Carbon Disulfide	2.57	76	4516	0.53	ug/l	99
18) Methyl Acetate	2.78	43	3771	0.88	ug/l #	90
20) Methylene Chloride	2.86	84	1073	Below Cal	#	71
25) 2-Butanone	4.72	43	4546	1.69	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	192185	48.02	ug/l	79
31) Cyclohexane	5.67	56	4542	0.81	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16473	3.12	ug/l #	51
37) Ethyl Acetate	4.72	43	4546	0.79	ug/l #	70
38) Carbon Tetrachloride	5.67	117	23336	4.04	ug/l #	16
59) 2-Hexanone	9.51	43	860	0.20	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	85976	21.44	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85976	70.06	ug/l #	7

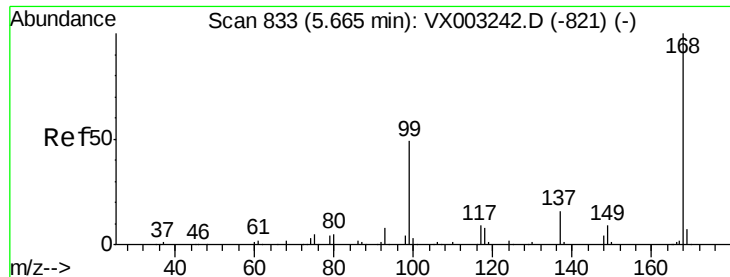
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 09 15:24:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

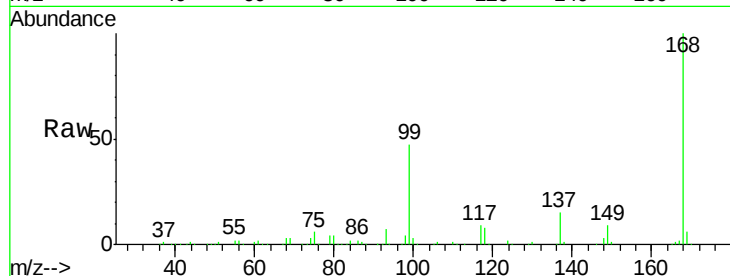
DUP-01RE

Tot Ion:168 Resp: 271840

Ion Ratio Lower Upper

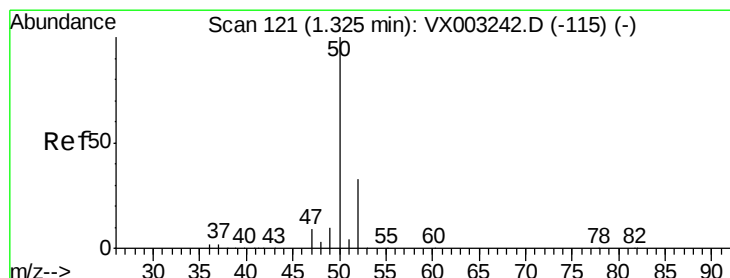
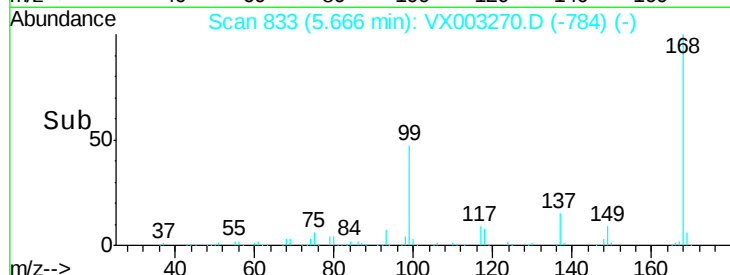
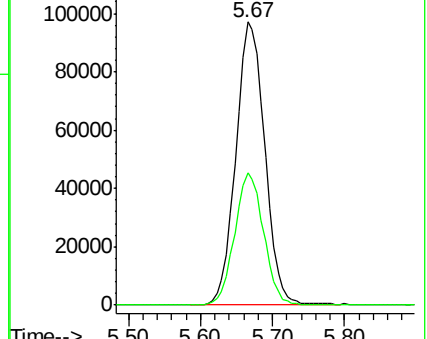
168 100

99 46.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.55 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003270.D

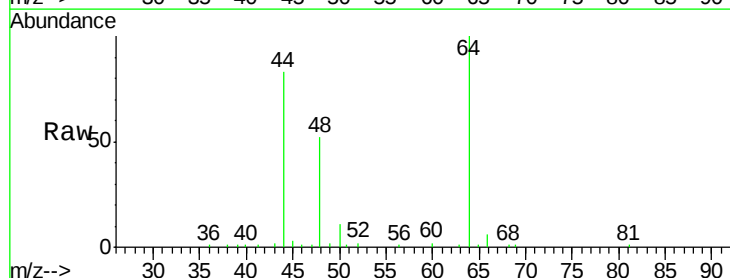
Acq: 10 Jul 2018 03:10

Tgt Ion: 50 Resp: 2078

Ion Ratio Lower Upper

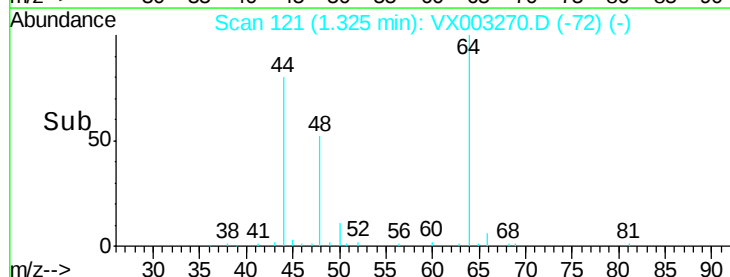
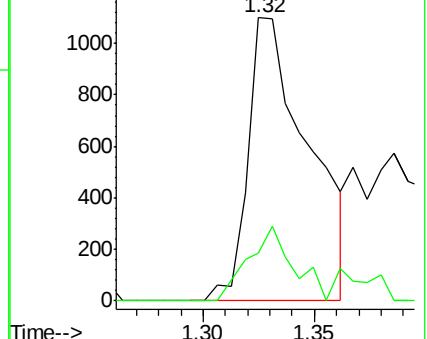
50 100

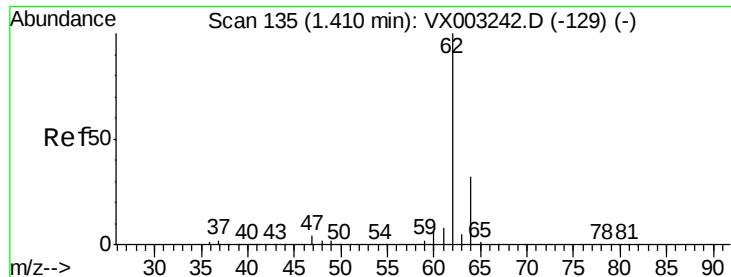
52 16.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 3.51 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampled :

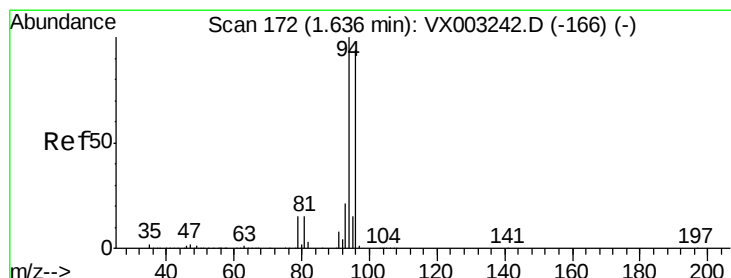
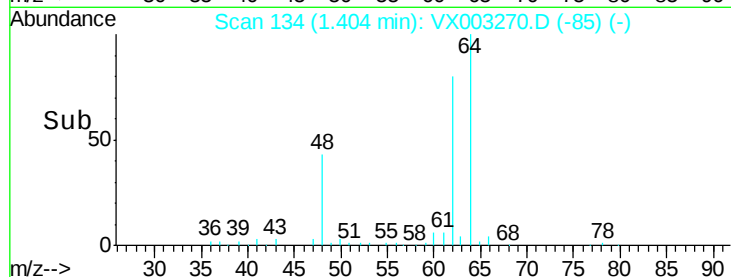
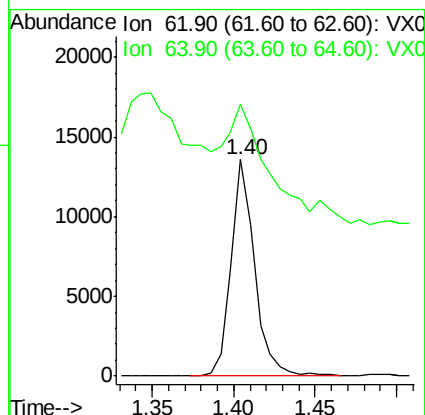
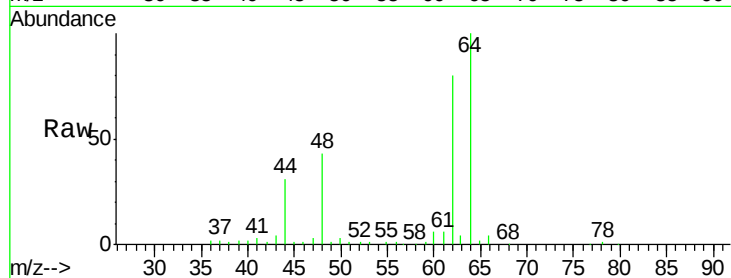
DUP-01RE

Tot Ion: 62 Resp: 13542

Ion Ratio Lower Upper

62 100

64 51.8 25.4 38.2#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003270.D

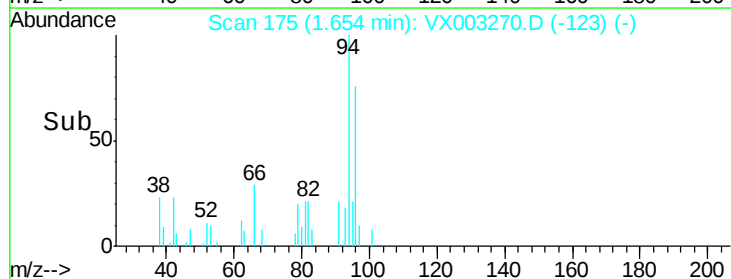
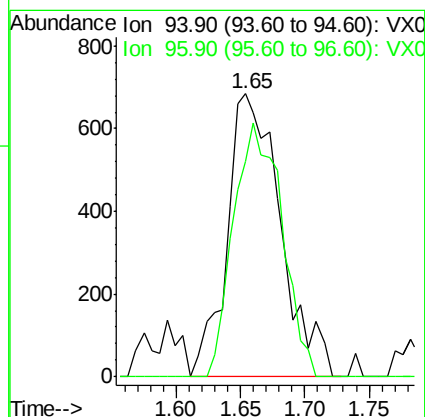
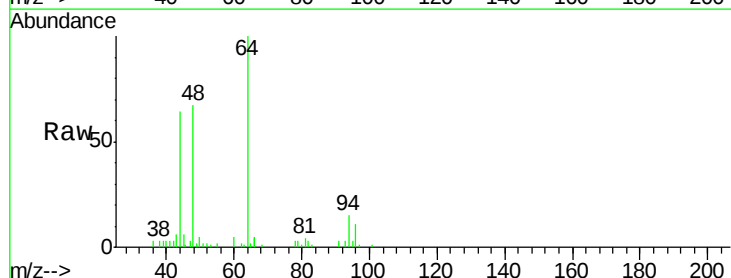
Acq: 10 Jul 2018 03:10

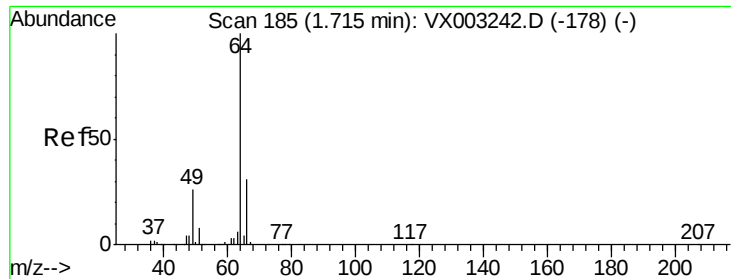
Tgt Ion: 94 Resp: 1970

Ion Ratio Lower Upper

94 100

96 76.2 74.9 112.3





#6

Chloroethane

Concen: 0.40 ug/l

RT: 1.95 min Scan# 224

Delta R.T. 0.24 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

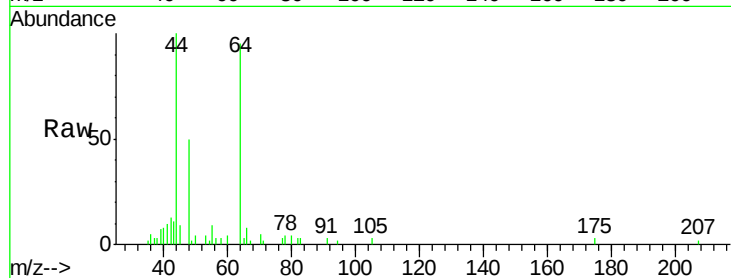
DUP-01RE

Tot Ion: 64 Resp: 865

Ion Ratio Lower Upper

64 100

66 7.9 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX003270.D (-135) (-)

Ion 65.90 (65.60 to 66.60): VX003270.D (-135) (-)

1.95

2500

2000

1500

1000

500

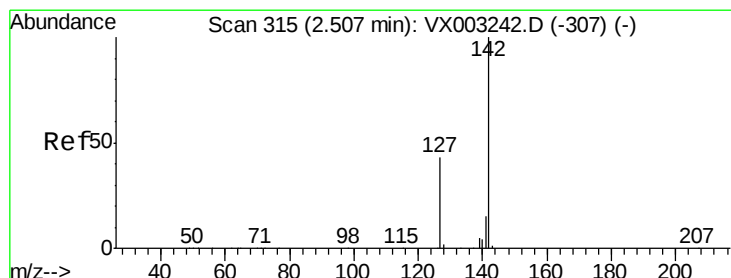
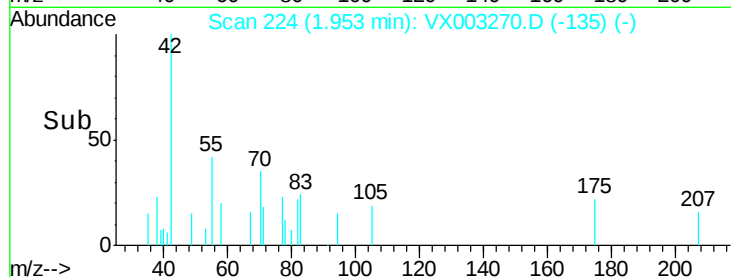
0

1.94

1.96

1.98

Time-->



#10

Methyl Iodide

Concen: 6.02 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

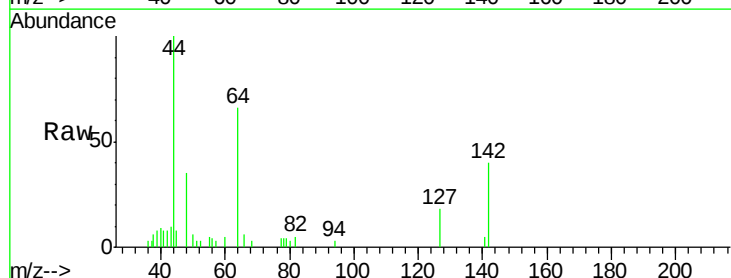
Tgt Ion: 142 Resp: 1535

Ion Ratio Lower Upper

142 100

127 46.4 36.6 55.0

141 15.5 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): VX003270.D (-266) (-)

Ion 126.80 (126.50 to 127.50): VX003270.D (-266) (-)

Ion 140.80 (140.50 to 141.50): VX003270.D (-266) (-)

1000

800

600

400

200

0

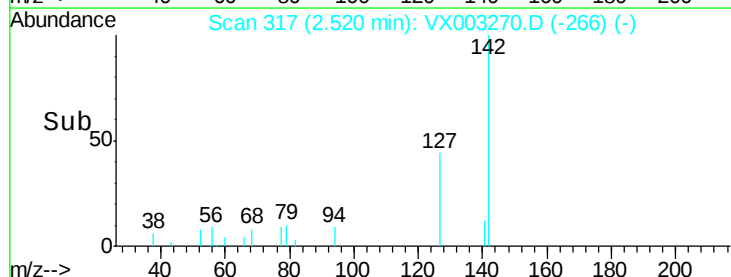
2.45

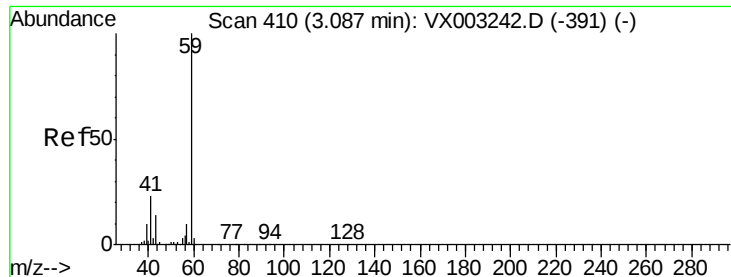
2.50

2.55

2.60

Time-->



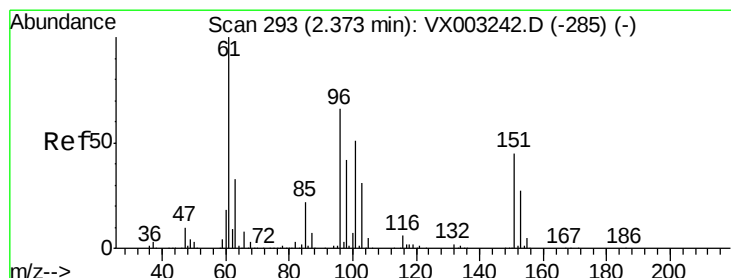
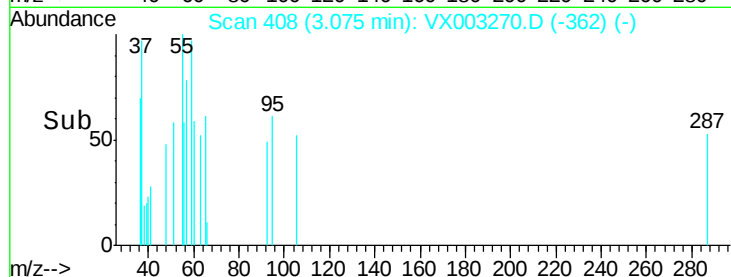
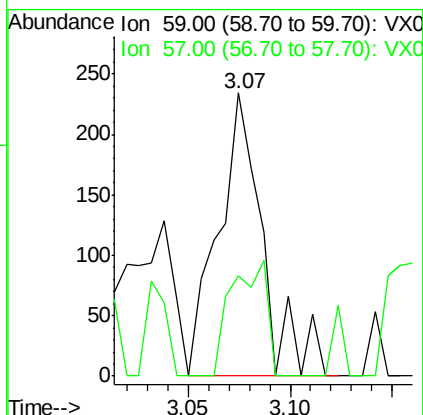
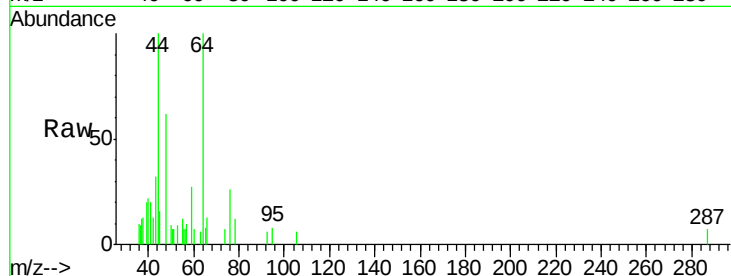


#11

Tert butyl alcohol
 Concen: 0.45 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.02 min
 Lab File: VX003270.D
 Acq: 10 Jul 2018 03:10

Instrument :
 MSVOA_X
 ClientSampled :
 DUP-01RE

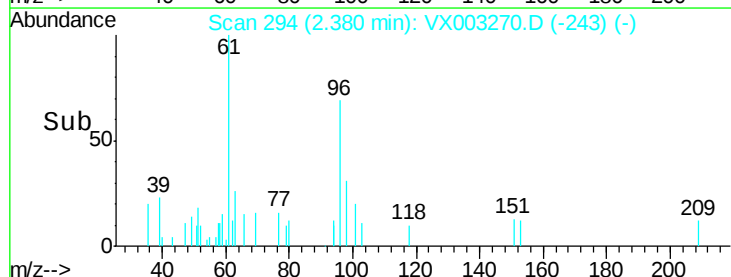
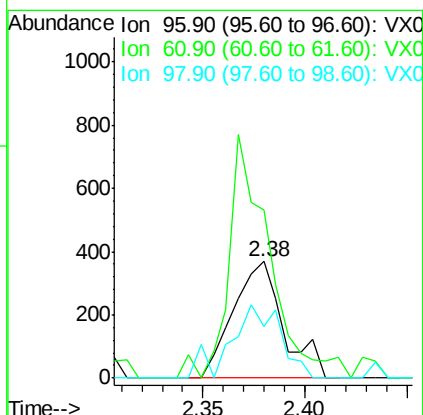
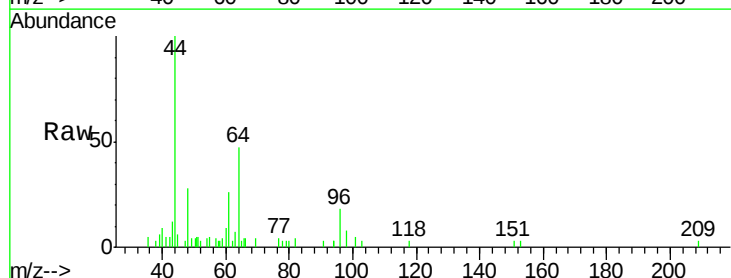
Tot Ion: 59 Resp: 352
 Ion Ratio Lower Upper
 59 100
 57 33.0 8.2 12.2#

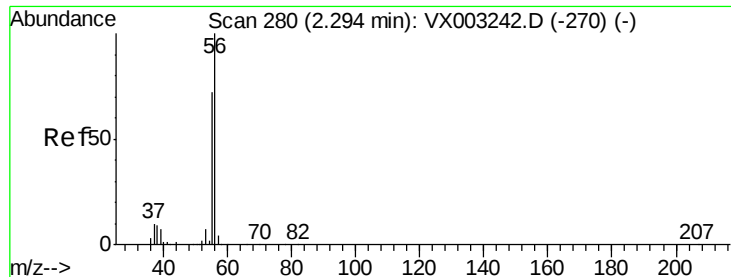


#12

1,1-Dichloroethene
 Concen: 0.21 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX003270.D
 Acq: 10 Jul 2018 03:10

Tgt Ion: 96 Resp: 631
 Ion Ratio Lower Upper
 96 100
 61 125.7 137.9 206.9#
 98 44.2 51.6 77.4#





#13

Acrolein

Concen: 0.24 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

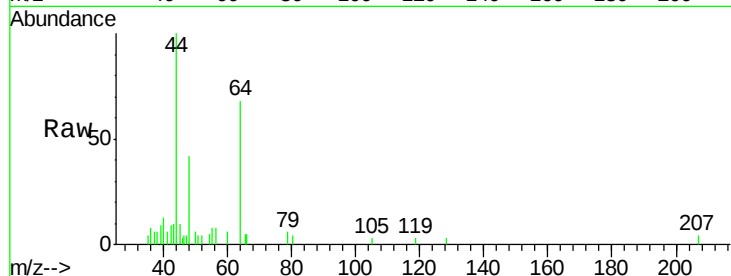
DUP-01RE

Tot Ion: 56 Resp: 150

Ion Ratio Lower Upper

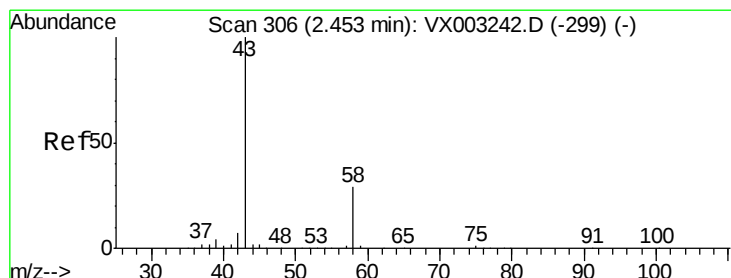
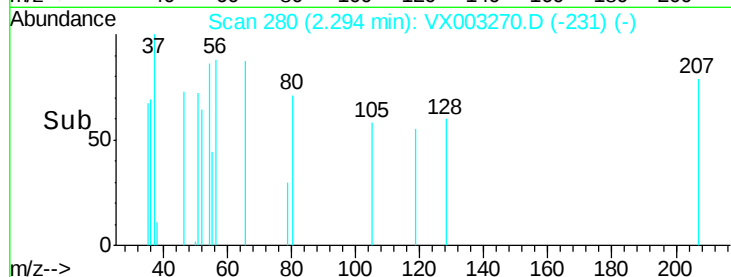
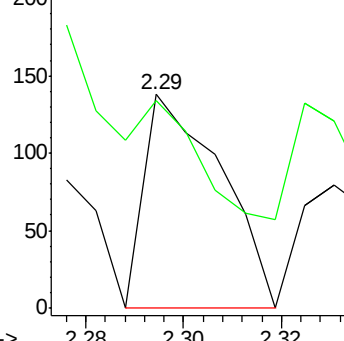
56 100

55 210.0 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: 9.02 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003270.D

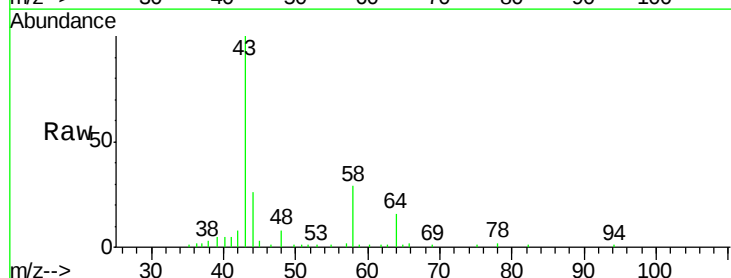
Acq: 10 Jul 2018 03:10

Tgt Ion: 43 Resp: 13702

Ion Ratio Lower Upper

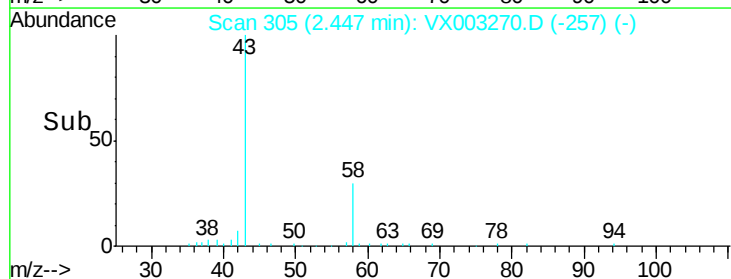
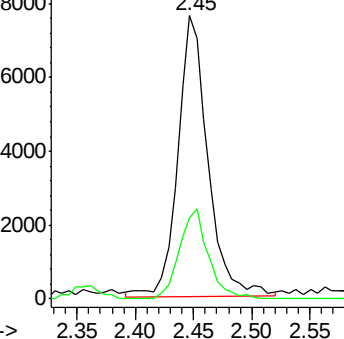
43 100

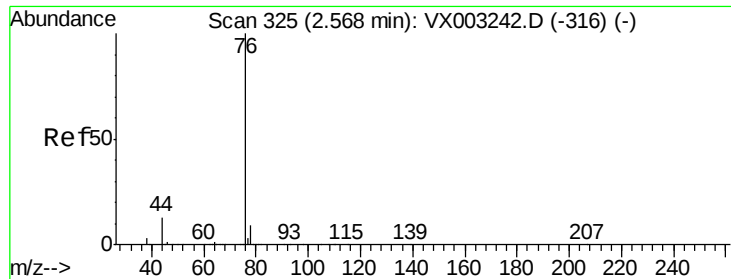
58 29.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.53 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

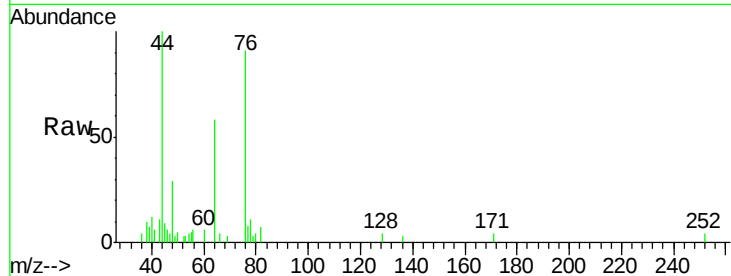
DUP-01RE

Tot Ion: 76 Resp: 4516

Ion Ratio Lower Upper

76 100

78 8.3 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2000

1500

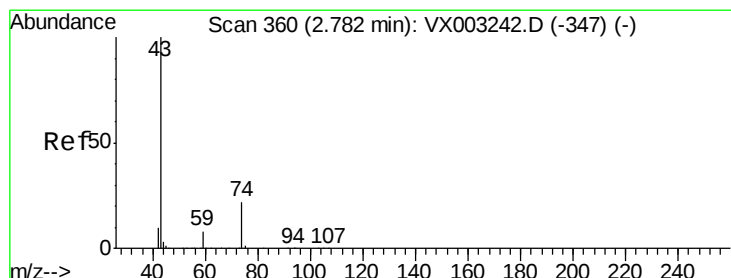
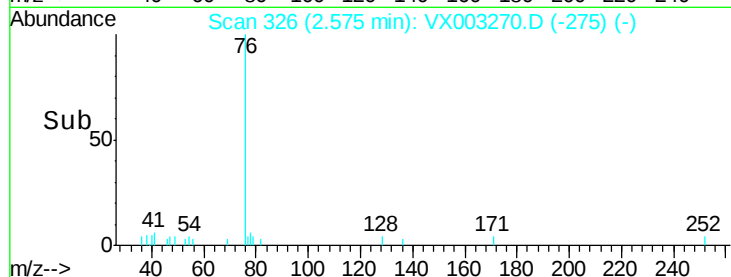
1000

500

0

2.50 2.55 2.60 2.65

Time-->



#18

Methyl Acetate

Concen: 0.88 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003270.D

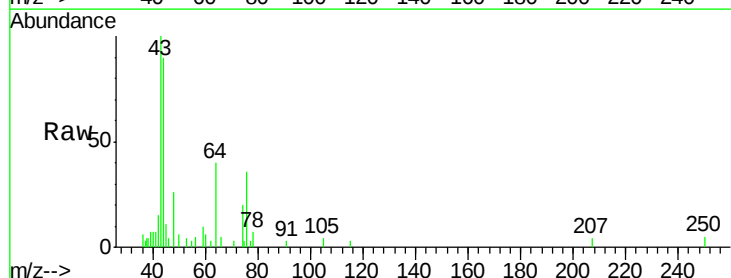
Acq: 10 Jul 2018 03:10

Tgt Ion: 43 Resp: 3771

Ion Ratio Lower Upper

43 100

74 25.6 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2000

1500

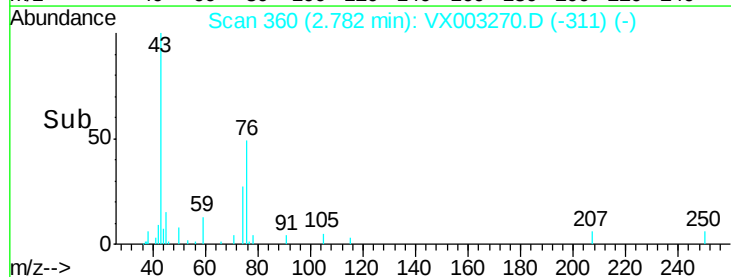
1000

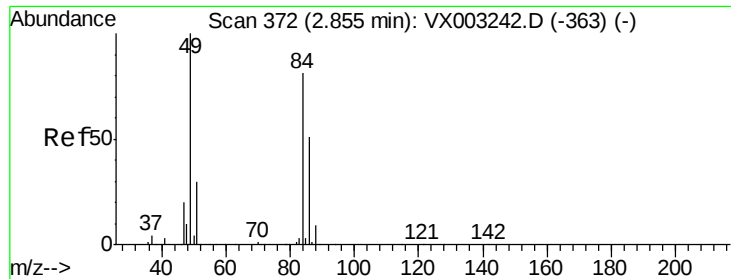
500

0

2.70 2.75 2.80 2.85

Time-->

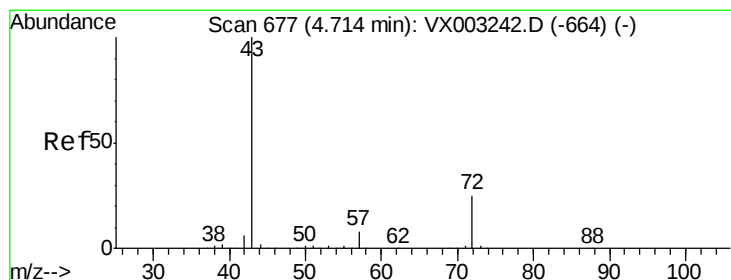
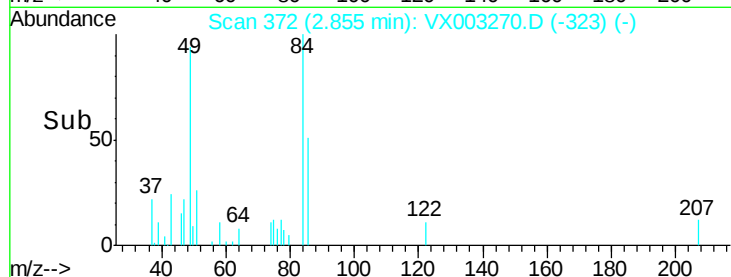
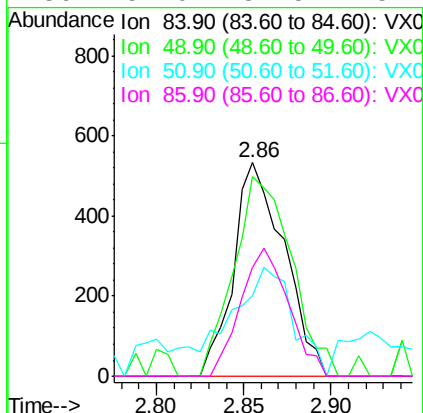
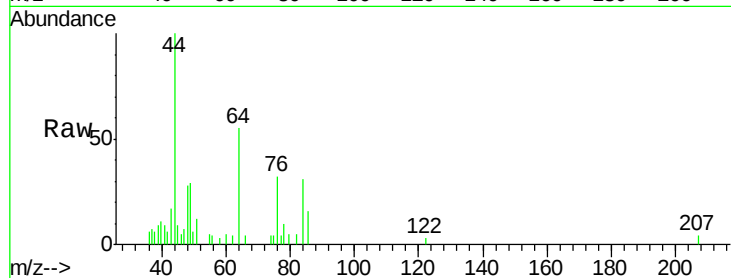




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003270.D
Acq: 10 Jul 2018 03:10

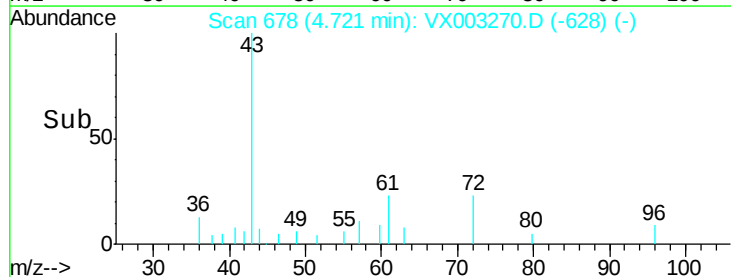
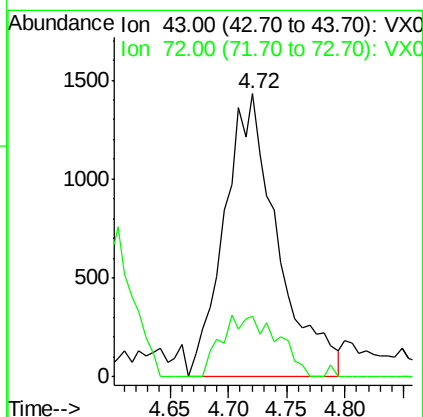
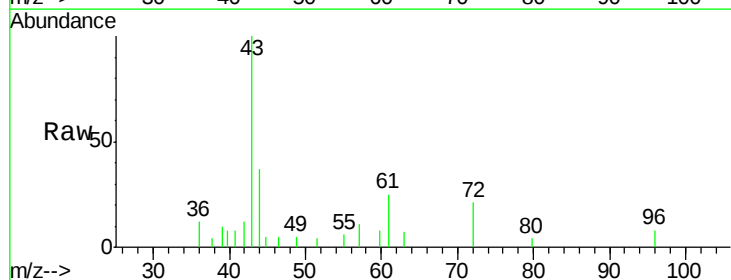
Instrument :
MSVOA_X
ClientSampleId :
DUP-01RE

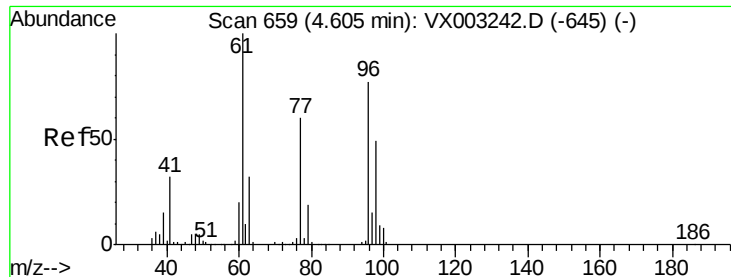
Tot Ion: 84 Resp: 1073
Ion Ratio Lower Upper
84 100
49 93.8 107.8 161.6#
51 23.8 32.8 49.2#
86 51.0 52.5 78.7#



#25
2-Butanone
Concen: 1.69 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003270.D
Acq: 10 Jul 2018 03:10

Tgt Ion: 43 Resp: 4546
Ion Ratio Lower Upper
43 100
72 21.4 18.5 27.7





#27

cis-1,2-Dichloroethene

Concen: 48.02 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

DUP-01RE

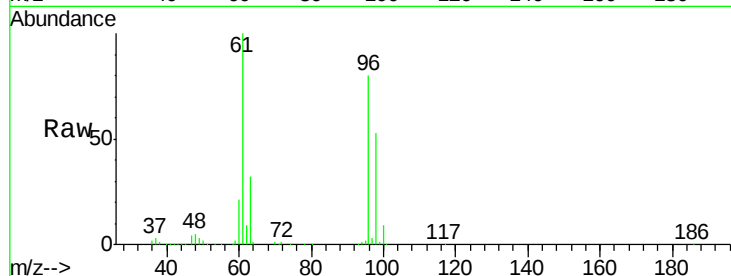
Tot Ion: 96 Resp: 192185

Ion Ratio Lower Upper

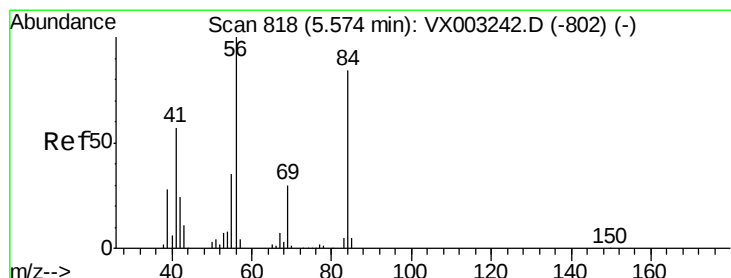
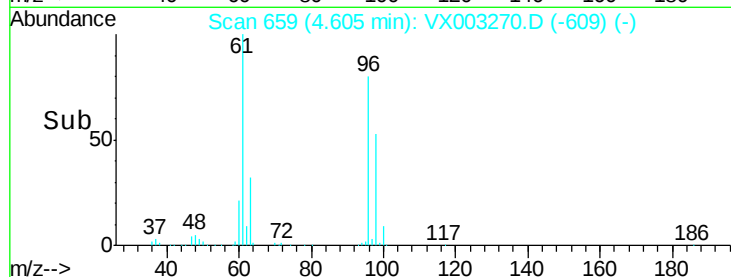
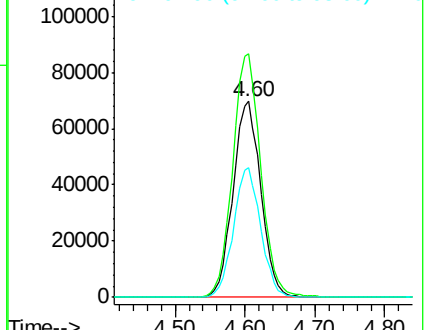
96 100

61 125.9 0.0 330.2

98 64.6 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 0.81 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

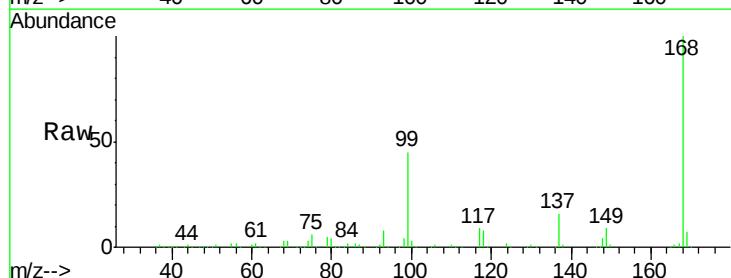
Tgt Ion: 56 Resp: 4542

Ion Ratio Lower Upper

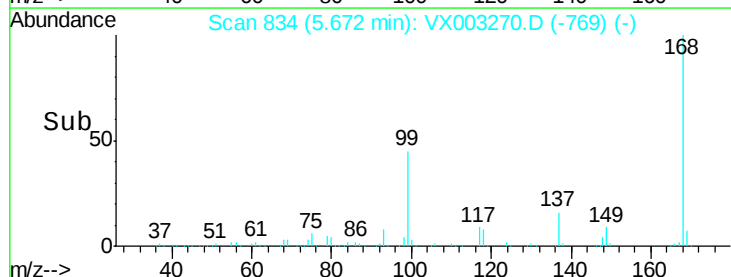
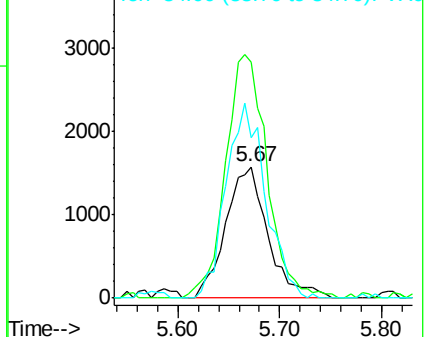
56 100

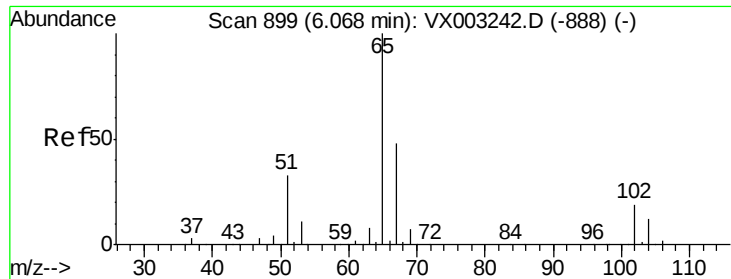
69 179.7 23.7 35.5#

84 121.8 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 38.98 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

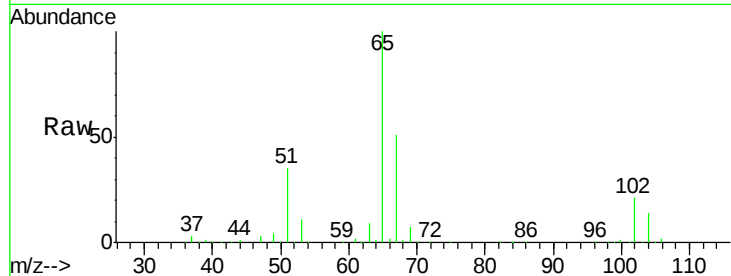
DUP-01RE

Tot Ion: 65 Resp: 166782

Ion Ratio Lower Upper

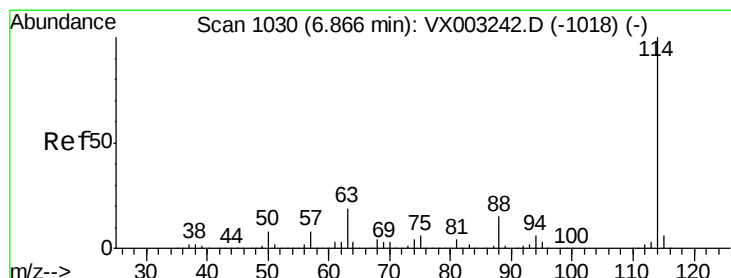
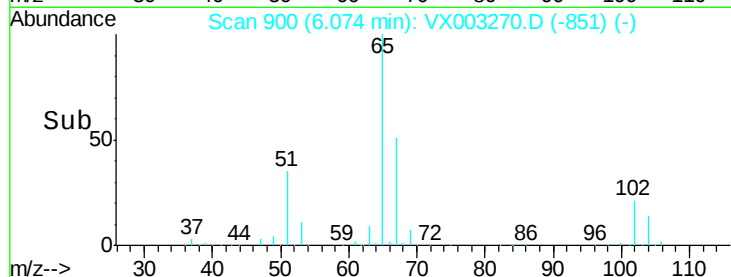
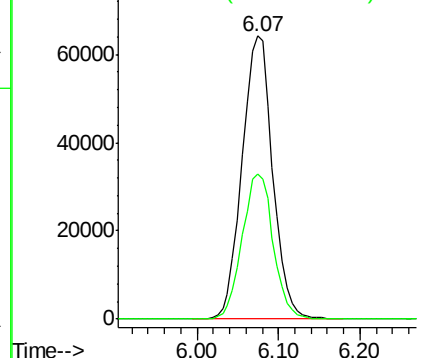
65 100

67 52.1 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: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

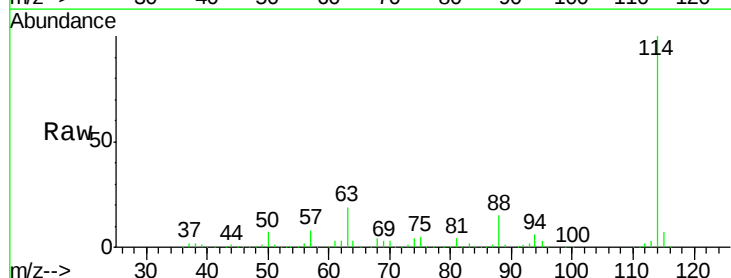
Tgt Ion: 114 Resp: 373048

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.4

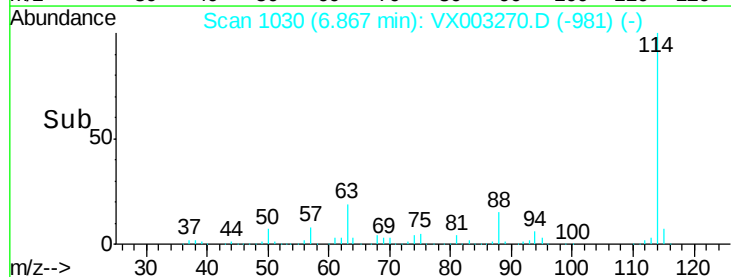
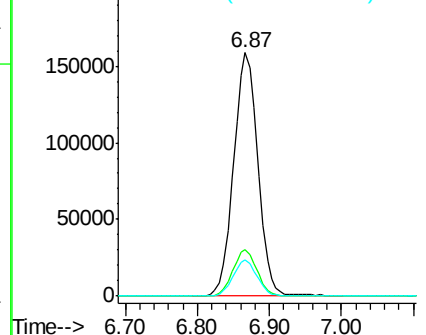
88 14.7 0.0 30.0

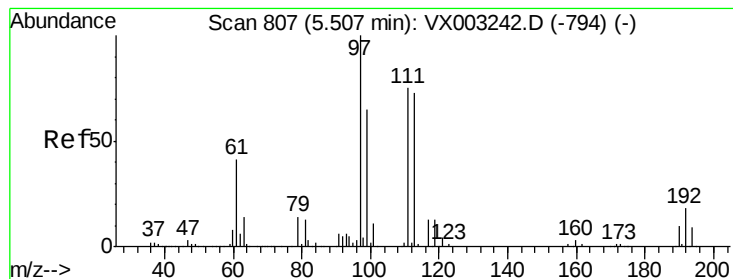


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 36.03 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

DUP-01RE

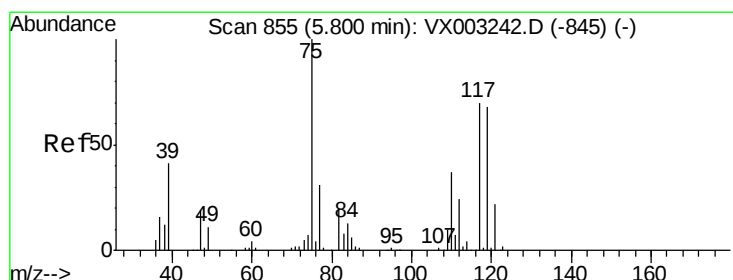
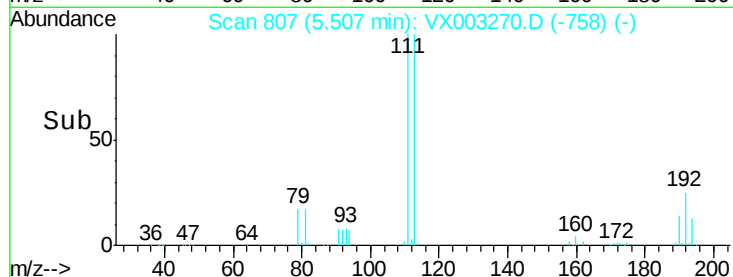
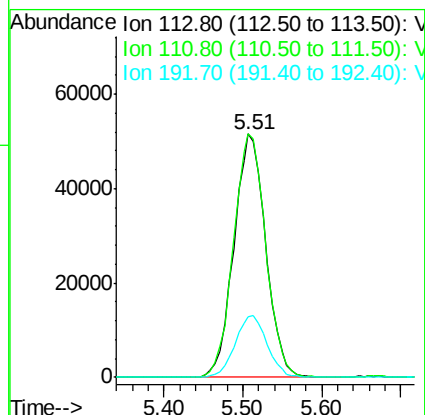
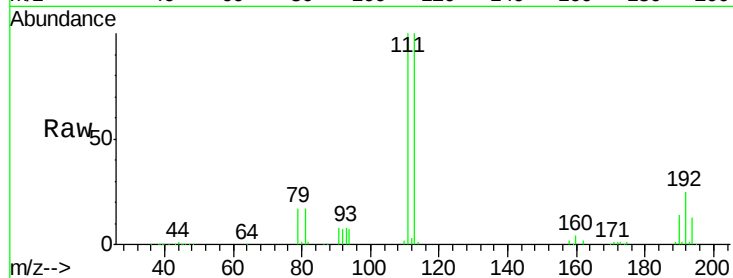
Tot Ion:113 Resp: 144395

Ion Ratio Lower Upper

113 100

111 101.3 81.4 122.0

192 25.5 19.1 28.7



#36

1,1-Dichloropropene

Concen: 3.12 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

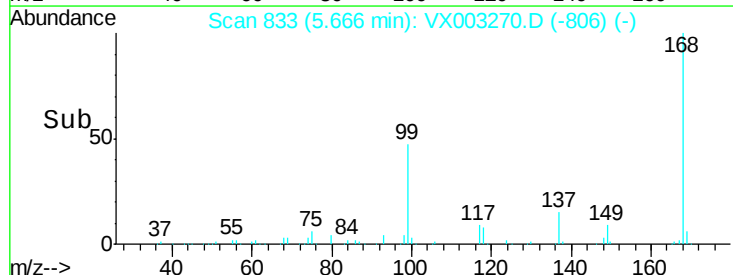
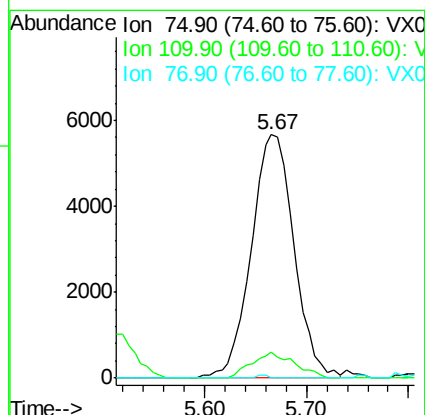
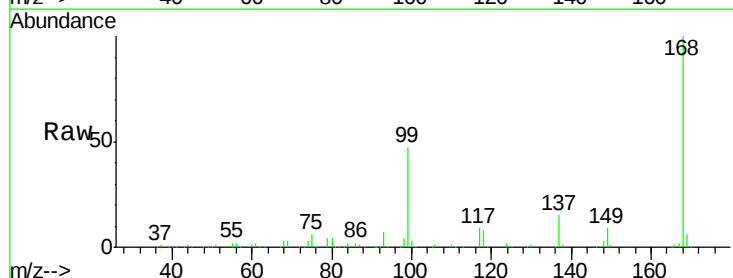
Tgt Ion: 75 Resp: 16473

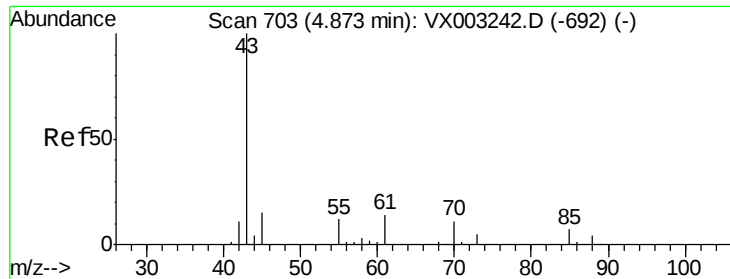
Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.4#

77 0.3 24.3 36.5#





#37

Ethyl Acetate

Concen: 0.79 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.15 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampled :

DUP-01RE

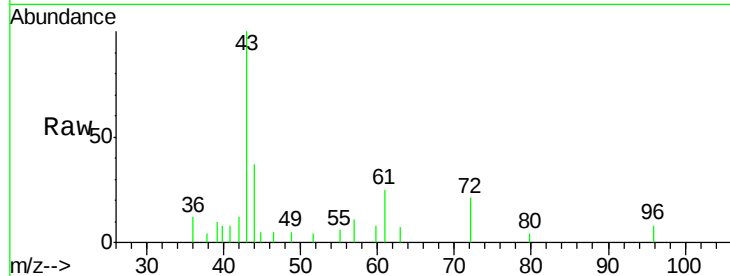
Tot Ion: 43 Resp: 4546

Ion Ratio Lower Upper

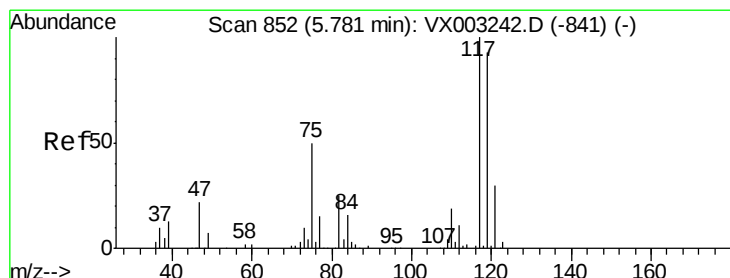
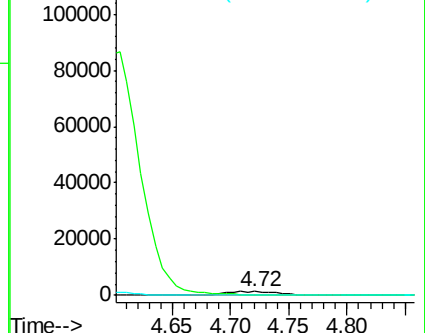
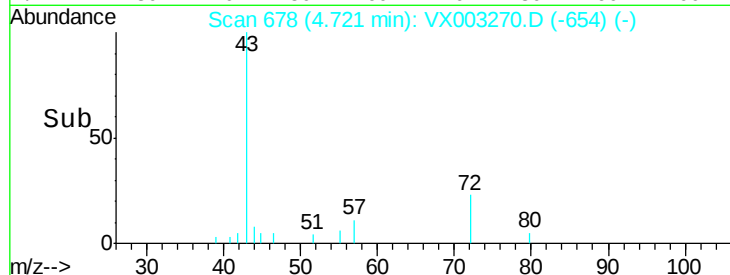
43 100

61 0.0 10.4 15.6#

70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX003270.D (-654) (-)



#38

Carbon Tetrachloride

Concen: 4.04 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

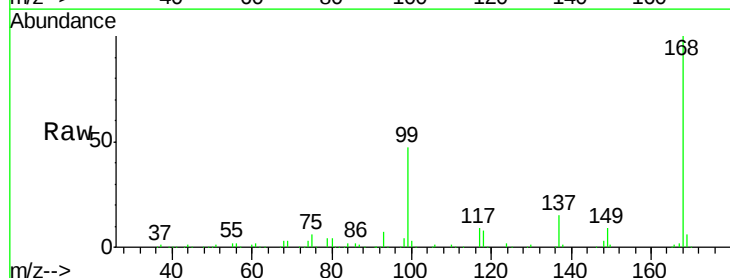
Tgt Ion: 117 Resp: 23336

Ion Ratio Lower Upper

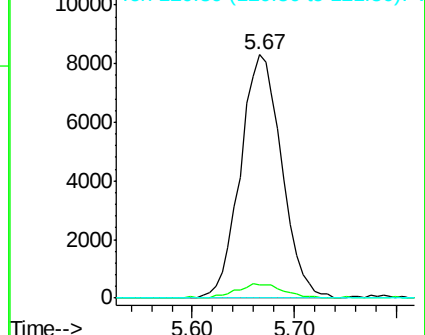
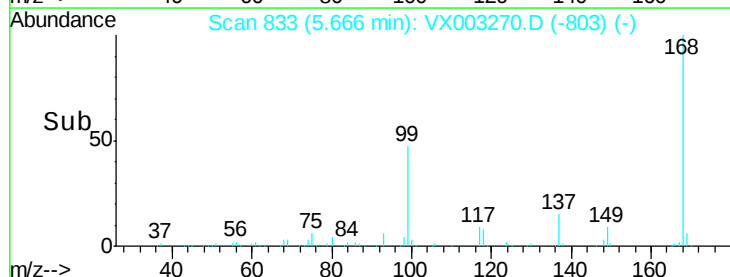
117 100

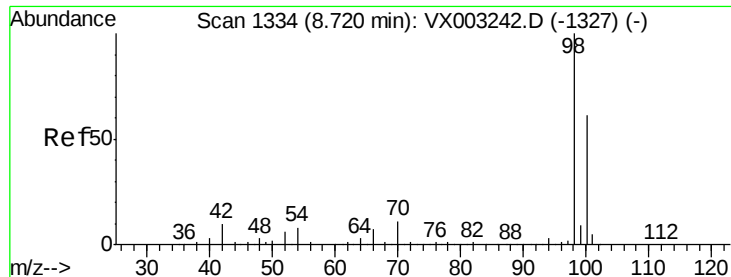
119 5.6 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX003270.D (-803) (-)





#50

Toluene-d8

Concen: 35.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

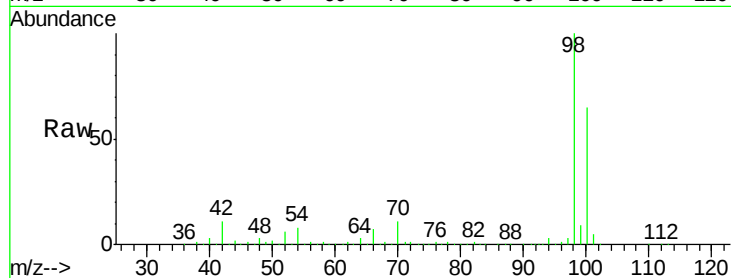
DUP-01RE

Tot Ion: 98 Resp: 510958

Ion Ratio Lower Upper

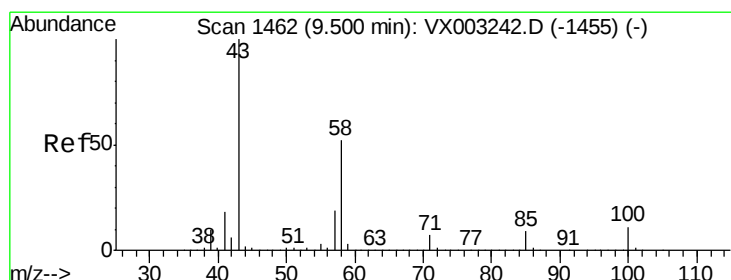
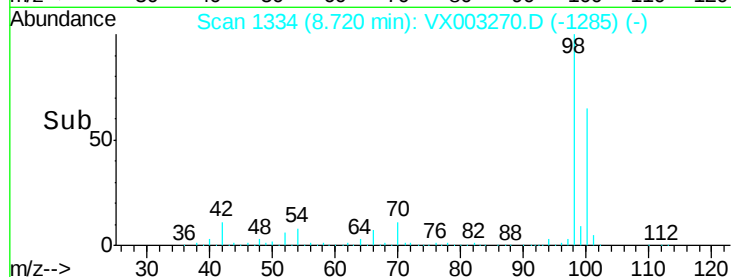
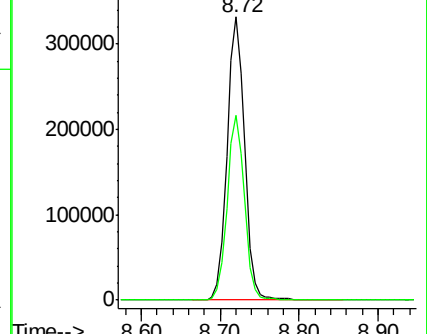
98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#59

2-Hexanone

Concen: 0.20 ug/l

RT: 9.51 min Scan# 1463

Delta R.T. 0.01 min

Lab File: VX003270.D

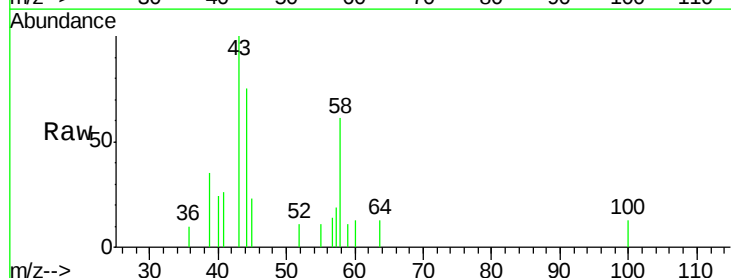
Acq: 10 Jul 2018 03:10

Tgt Ion: 43 Resp: 860

Ion Ratio Lower Upper

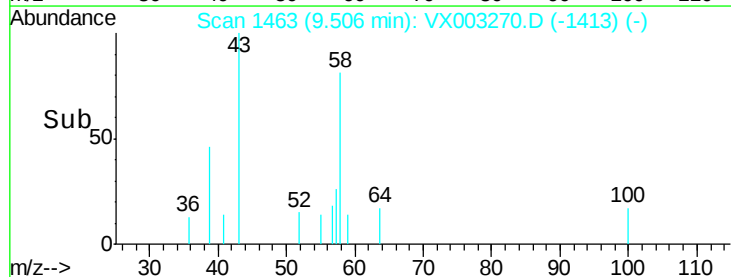
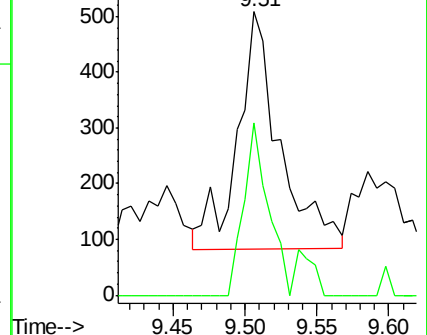
43 100

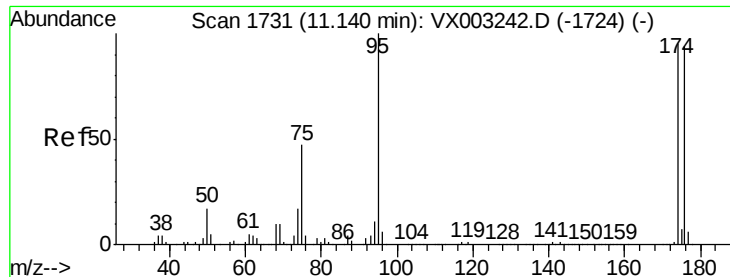
58 42.7 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 32.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

DUP-01RE

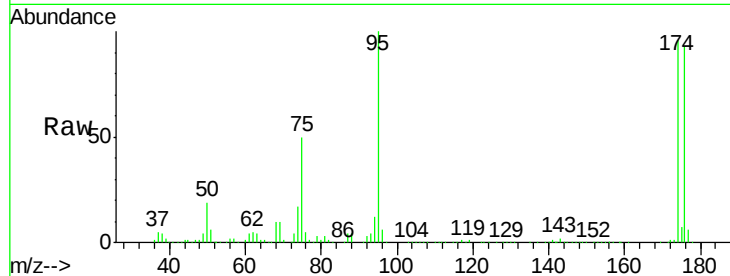
Tot Ion: 95 Resp: 171666

Ion Ratio Lower Upper

95 100

174 100.5 0.0 187.4

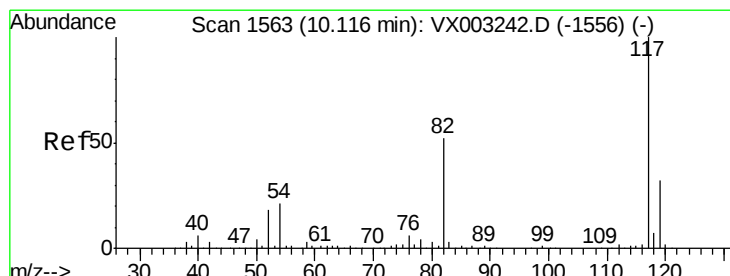
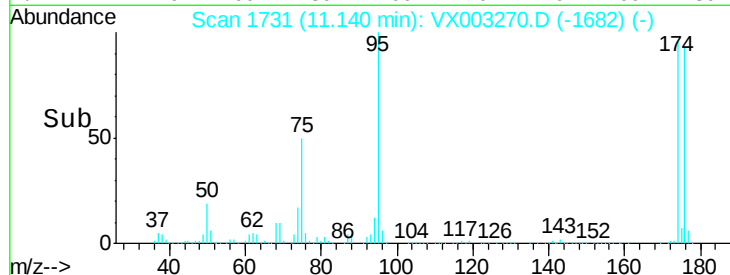
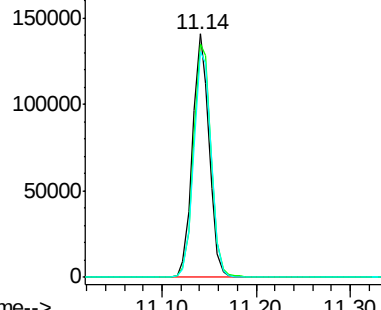
176 97.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003270.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003270.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003270.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

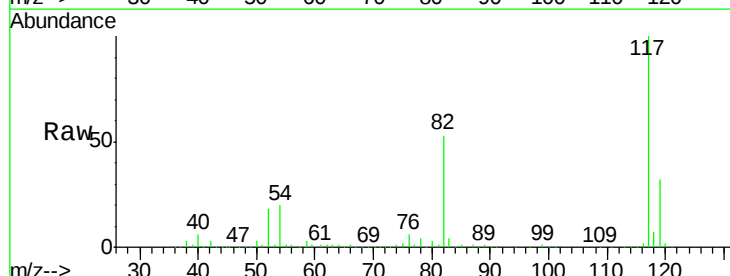
Tgt Ion: 117 Resp: 333540

Ion Ratio Lower Upper

117 100

82 53.2 45.0 67.4

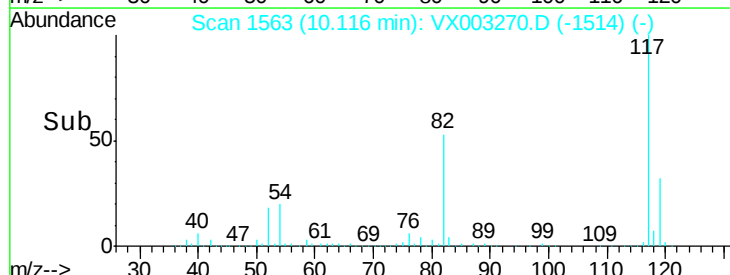
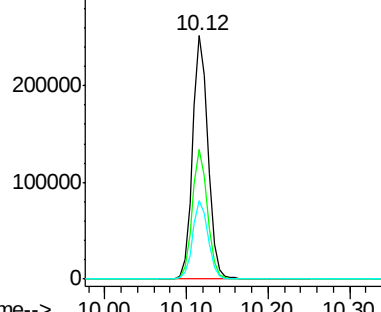
119 32.0 25.8 38.6

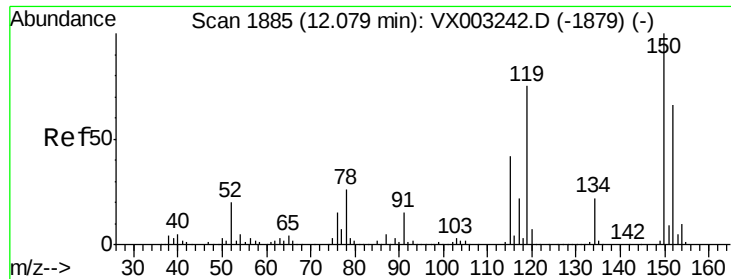


Abundance Ion 116.90 (116.60 to 117.60): VX003270.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003270.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003270.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

DUP-01RE

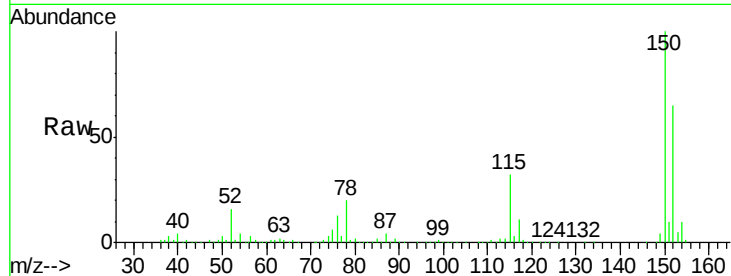
Tot Ion:152 Resp: 185592

Ion Ratio Lower Upper

152 100

115 52.9 40.1 120.2

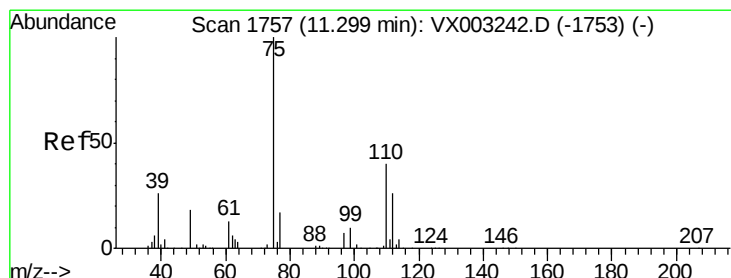
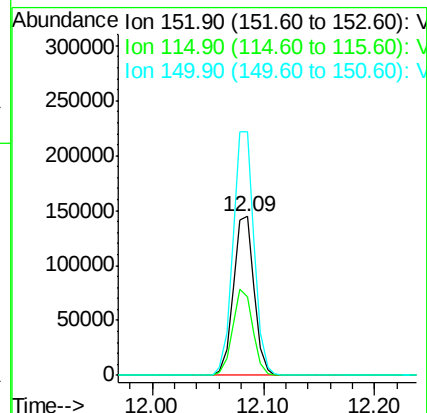
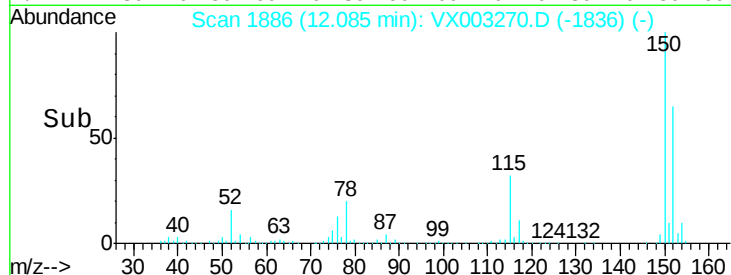
150 155.2 0.0 347.2



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: 21.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003270.D

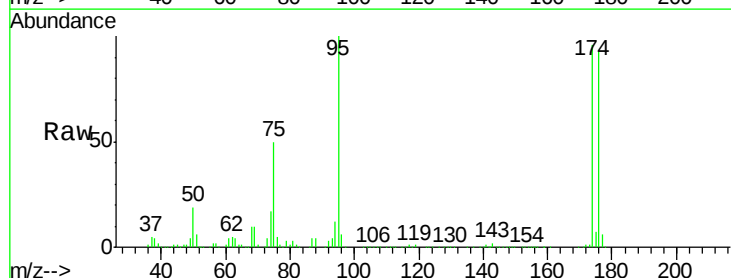
Acq: 10 Jul 2018 03:10

Tgt Ion: 75 Resp: 85976

Ion Ratio Lower Upper

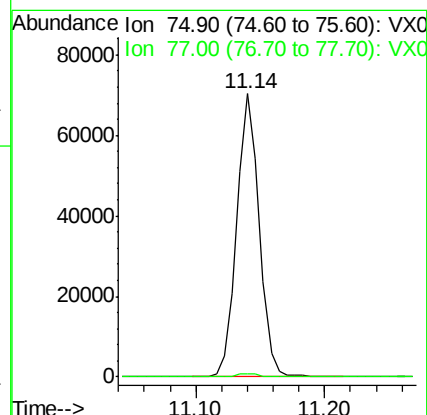
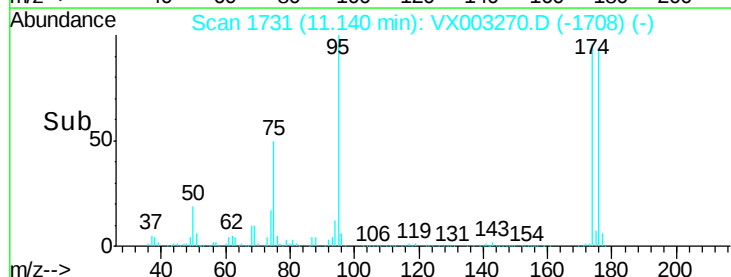
75 100

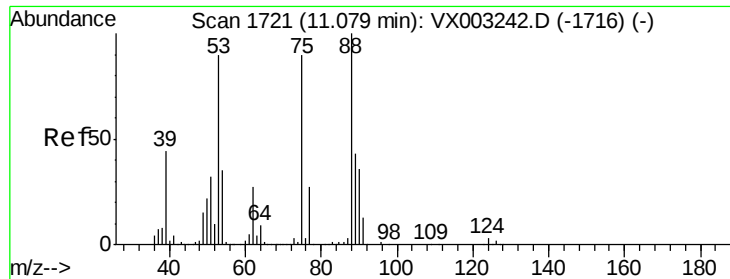
77 1.2 22.8 68.3#



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: 70.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003270.D

Acq: 10 Jul 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

DUP-01RE

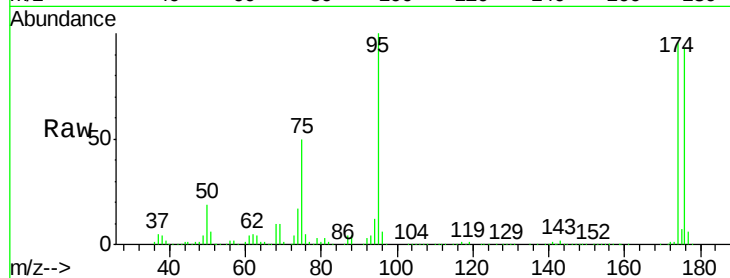
Tot Ion: 75 Resp: 85976

Ion Ratio Lower Upper

75 100

53 0.4 86.8 130.2#

89 0.0 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

