

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\
 Data File : VX003204.D
 Acq On : 06 Jul 2018 06:21
 Operator : JC/MD
 Sample : J3844-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0493-180702

Quant Time: Jul 06 07:36:17 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	268233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	372737	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	347058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194813	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	173109	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
35) Dibromofluoromethane	5.51	113	144466	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
50) Toluene-d8	8.72	98	521542	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
62) 4-Bromofluorobenzene	11.14	95	180835	43.50	ug/l	0.00
Spiked Amount			Recovery	=	87.00%	

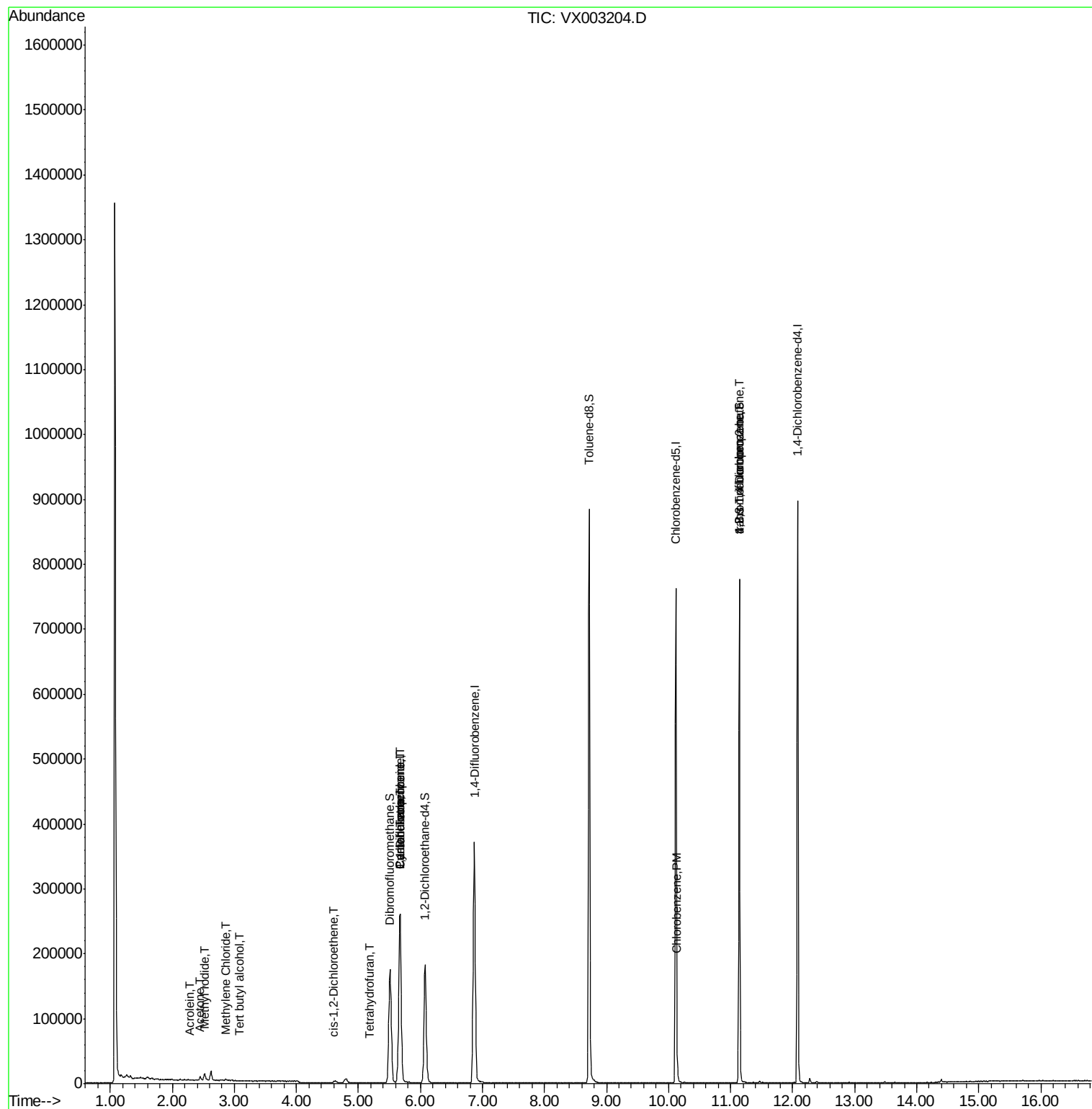
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	40	Below Cal	#	43
3) Chloromethane	1.32	50	2307	Below Cal		93
5) Bromomethane	1.65	94	728	Below Cal	#	29
6) Chloroethane	1.72	64	108	Below Cal		89
10) Methyl Iodide	2.52	142	11853	9.68	ug/l	98
11) Tert butyl alcohol	3.07	59	271	0.37	ug/l	# 1
13) Acrolein	2.29	56	259	4.85	ug/l	# 82
16) Acetone	2.45	43	6150	4.01	ug/l	91
20) Methylene Chloride	2.86	84	770	0.26	ug/l	# 88
27) cis-1,2-Dichloroethene	4.60	96	734	0.23	ug/l	# 1
29) Tetrahydrofuran	5.18	42	427	0.29	ug/l	# 46
31) Cyclohexane	5.67	56	4727	1.02	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17332	4.24	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23986	5.35	ug/l	# 16
65) Chlorobenzene	10.14	112	5029	0.57	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	90918	25.76	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	90918	73.09	ug/l	# 7

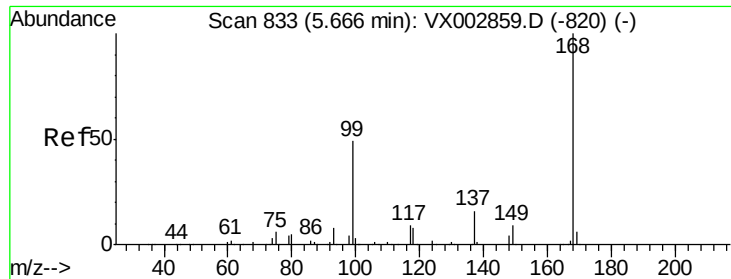
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

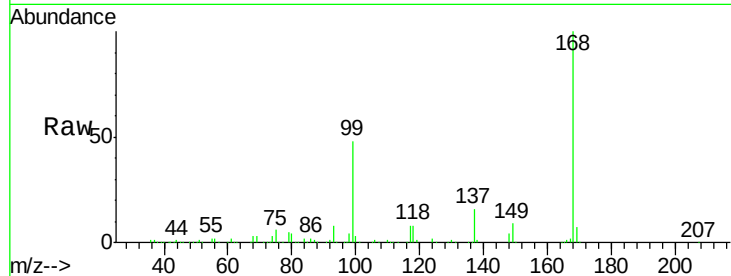
DUP-0493-180702

Tot Ion:168 Resp: 268233

Ion Ratio Lower Upper

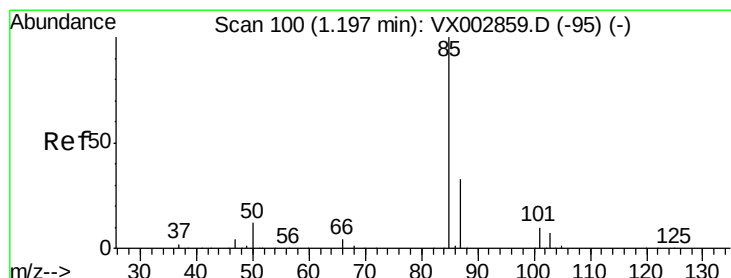
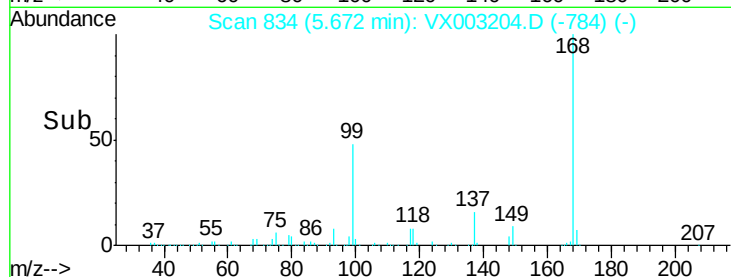
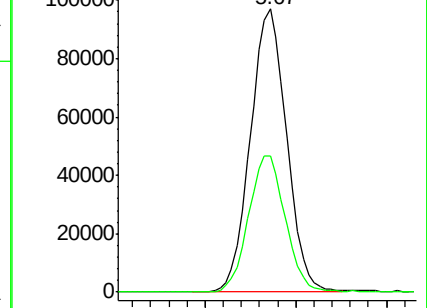
168 100

99 48.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003204.D

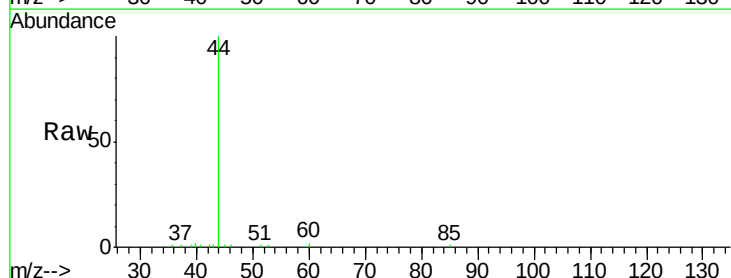
Acq: 06 Jul 2018 06:21

Tgt Ion: 85 Resp: 40

Ion Ratio Lower Upper

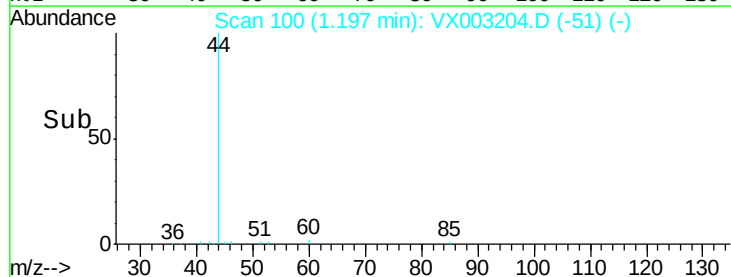
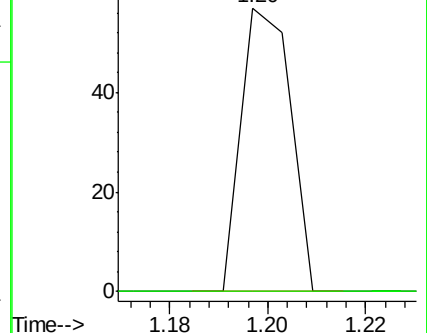
85 100

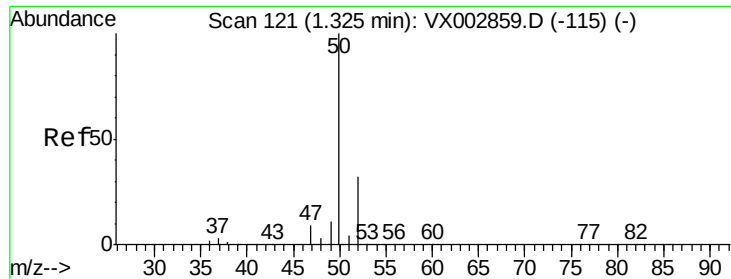
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

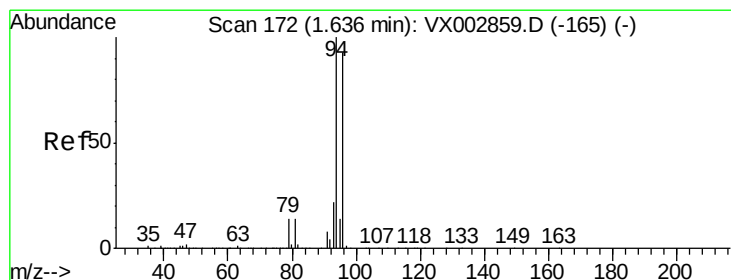
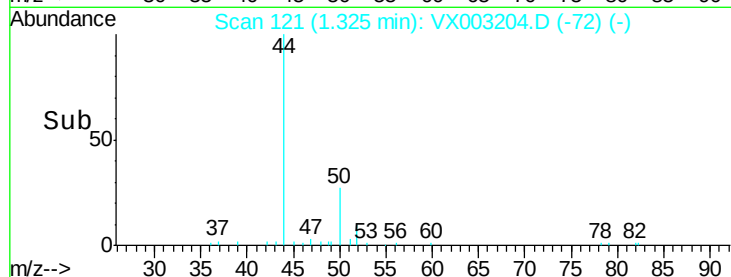
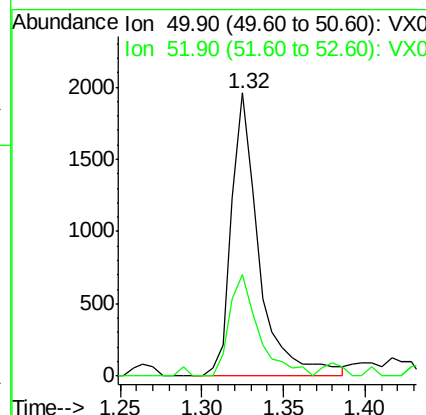
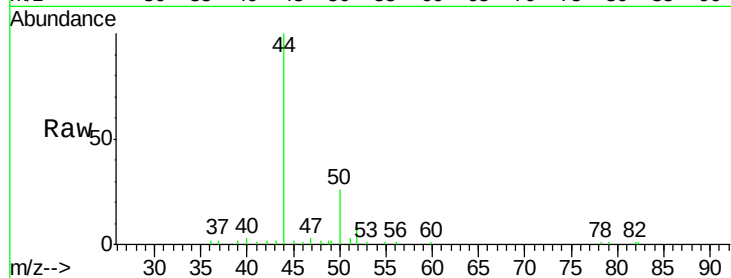




#3
Chloromethane
Concen: Below Cal
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX003204.D
Acq: 06 Jul 2018 06:21

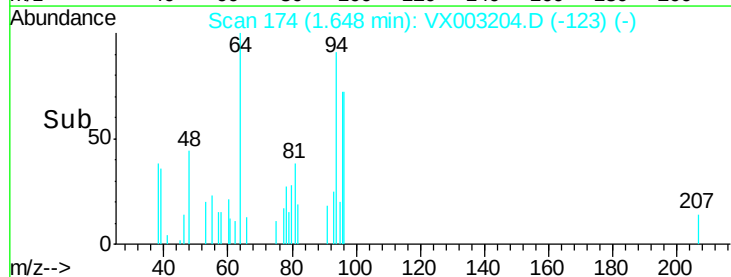
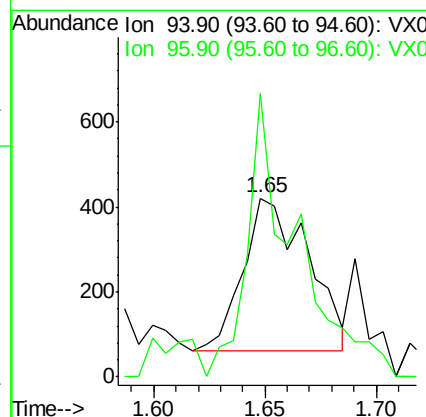
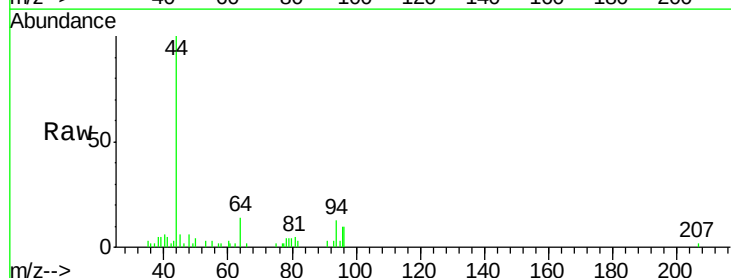
Instrument :
MSVOA_X
ClientSampleId :
DUP-0493-180702

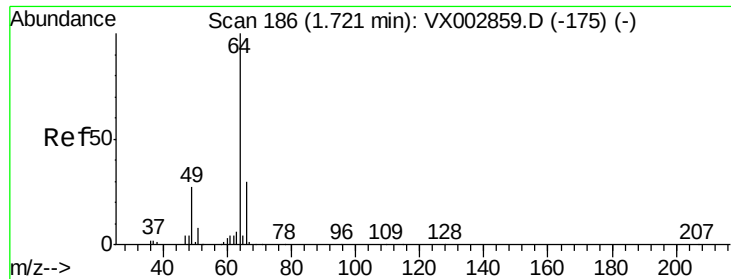
Tot Ion: 50 Resp: 2307
Ion Ratio Lower Upper
50 100
52 36.1 25.7 38.5



#5
Bromomethane
Concen: Below Cal
RT: 1.65 min Scan# 174
Delta R.T. 0.01 min
Lab File: VX003204.D
Acq: 06 Jul 2018 06:21

Tgt Ion: 94 Resp: 728
Ion Ratio Lower Upper
94 100
96 161.7 74.9 112.3#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

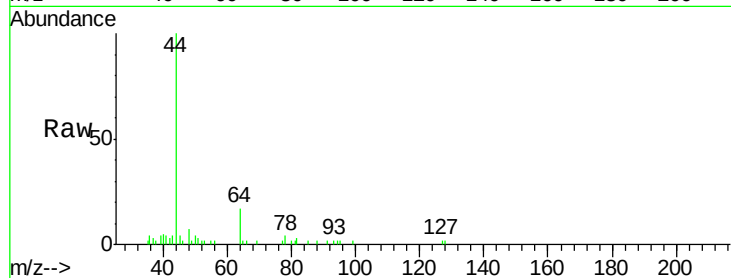
DUP-0493-180702

Tot Ion: 64 Resp: 108

Ion Ratio Lower Upper

64 100

66 38.0 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

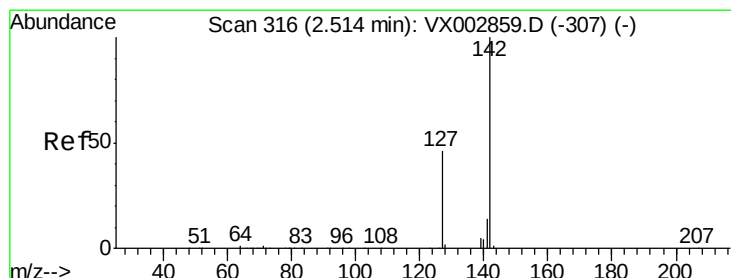
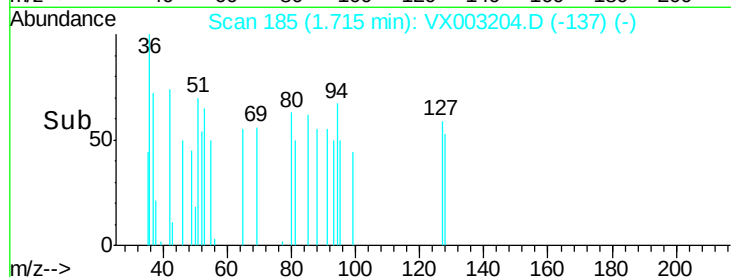
400

200

0

1.70 1.72 1.74

Time-->



#10

Methyl Iodide

Concen: 9.68 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

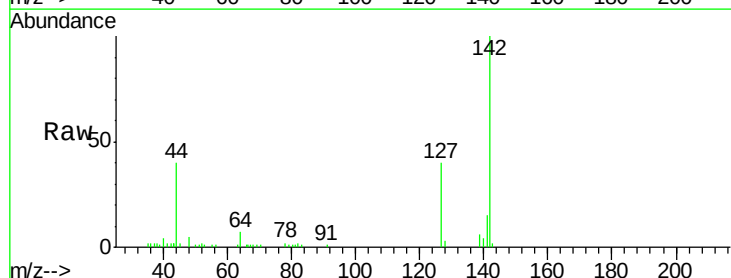
Tgt Ion: 142 Resp: 11853

Ion Ratio Lower Upper

142 100

127 43.8 36.6 55.0

141 13.8 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

2.52

6000

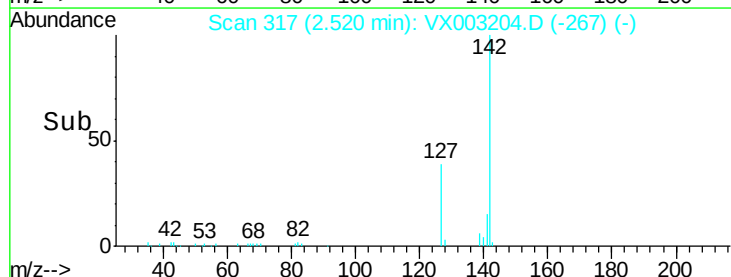
4000

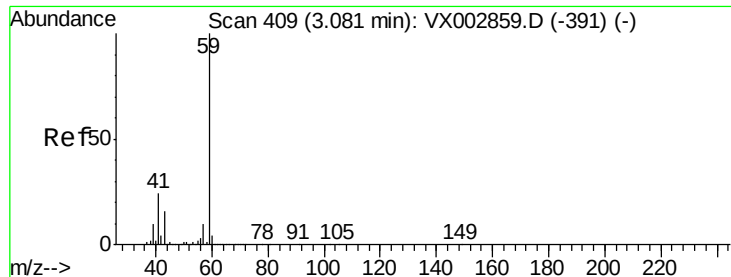
2000

0

2.45 2.50 2.55 2.60

Time-->



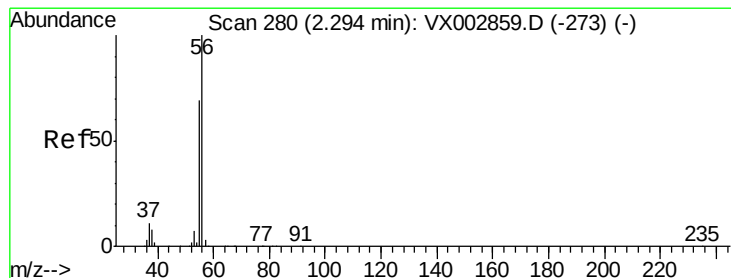
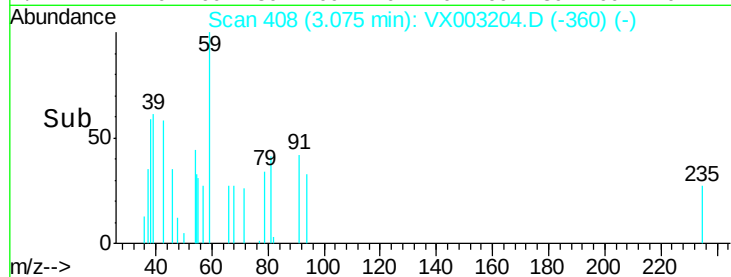
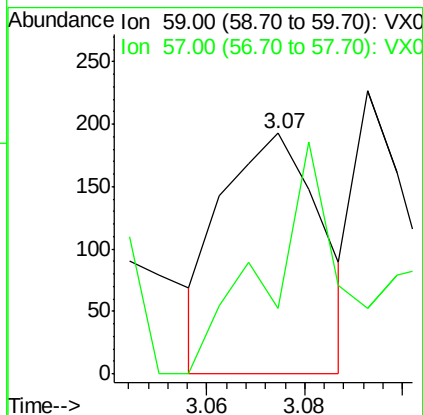
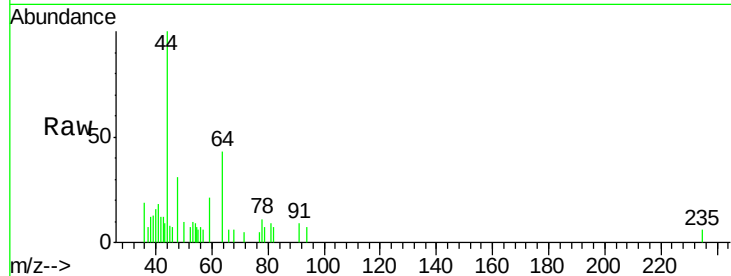


#11

Tert butyl alcohol
 Concen: 0.37 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003204.D
 Acq: 06 Jul 2018 06:21

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0493-180702

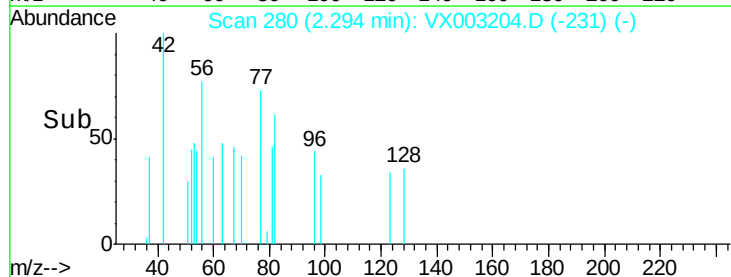
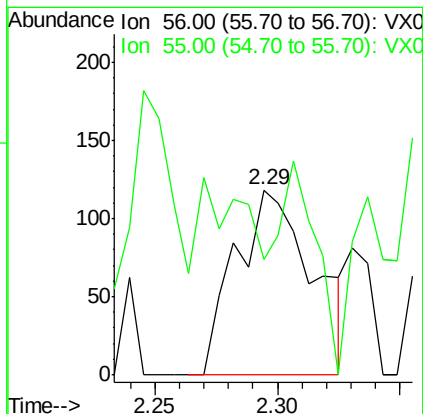
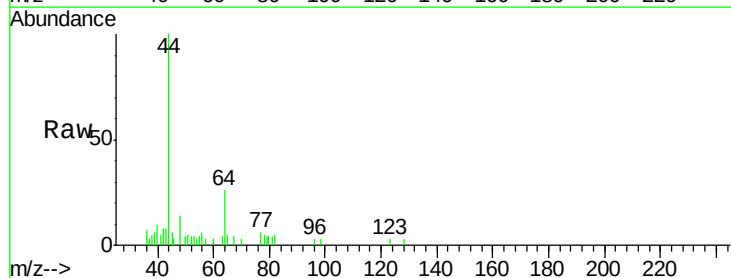
Tot Ion: 59 Resp: 271
 Ion Ratio Lower Upper
 59 100
 57 68.3 8.2 12.2#

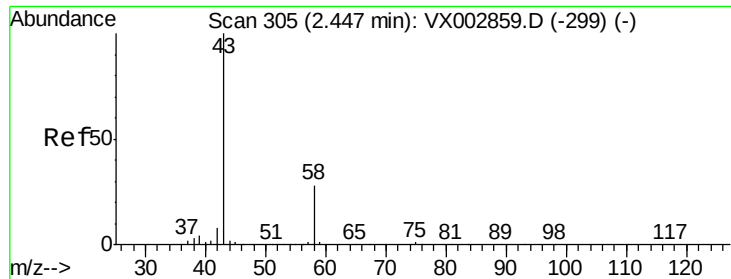


#13

Acrolein
 Concen: 4.85 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003204.D
 Acq: 06 Jul 2018 06:21

Tgt Ion: 56 Resp: 259
 Ion Ratio Lower Upper
 56 100
 55 56.4 57.0 85.4#





#16

Acetone

Concen: 4.01 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

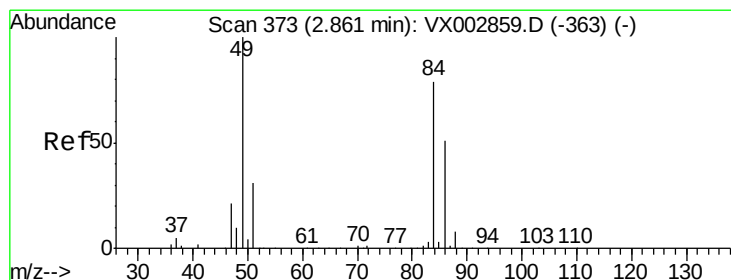
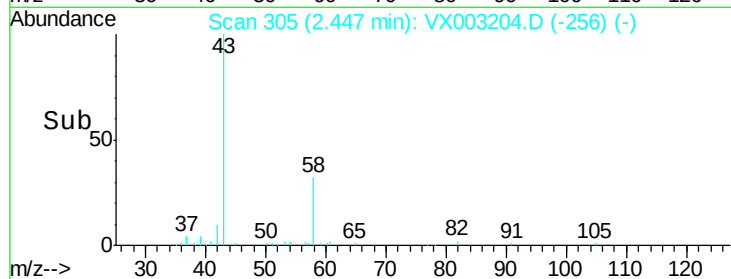
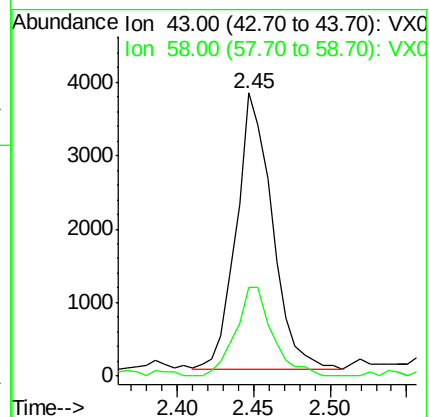
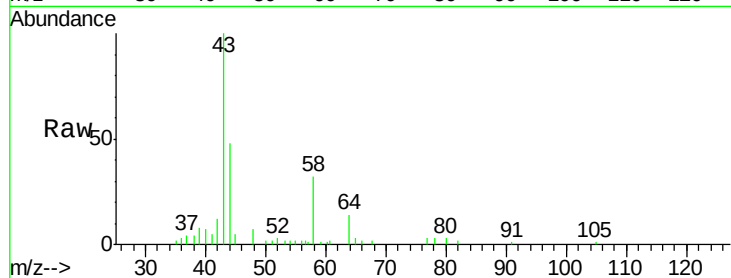
DUP-0493-180702

Tot Ion: 43 Resp: 6150

Ion Ratio Lower Upper

43 100

58 32.3 22.1 33.1



#20

Methylene Chloride

Concen: 0.26 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Tgt Ion: 84 Resp: 770

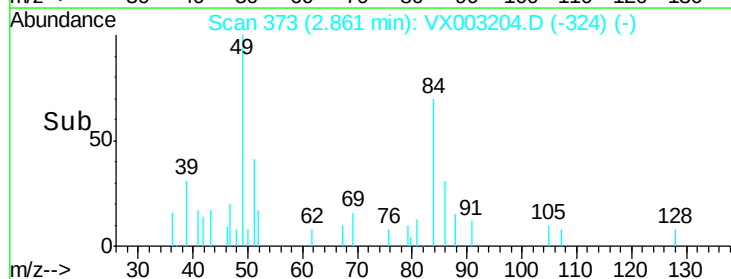
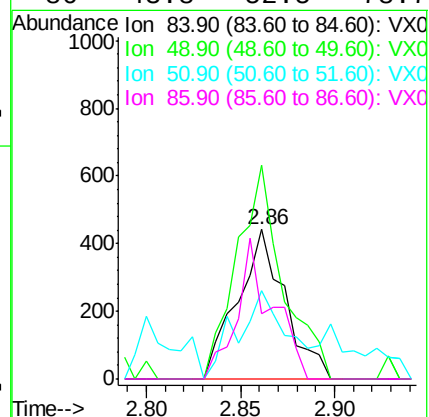
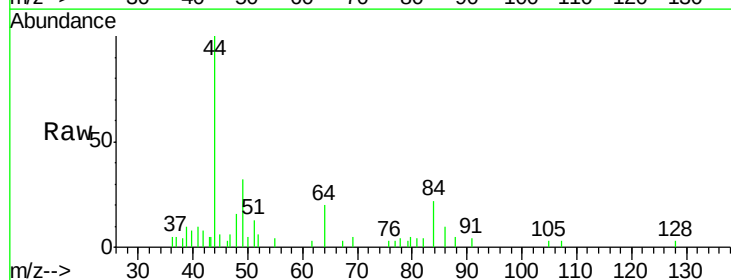
Ion Ratio Lower Upper

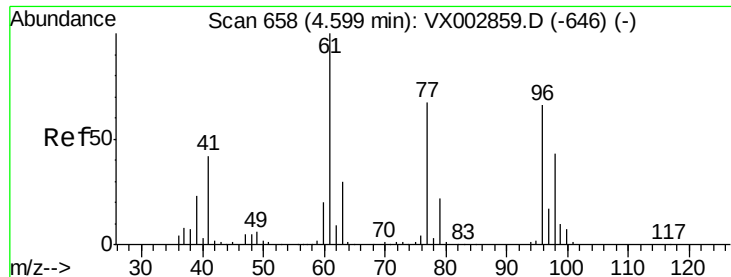
84 100

49 143.1 107.8 161.6

51 40.6 32.8 49.2

86 43.8 52.5 78.7#





#27

cis-1,2-Dichloroethene

Concen: 0.23 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

DUP-0493-180702

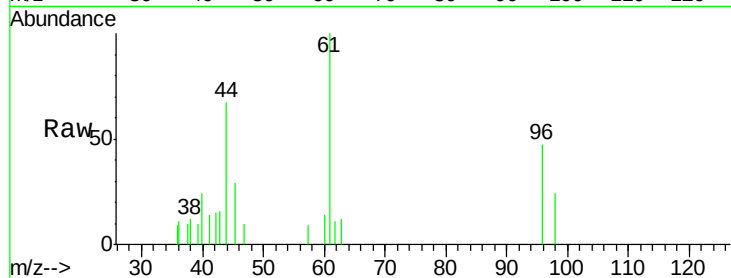
Tot Ion: 96 Resp: 734

Ion Ratio Lower Upper

96 100

61 0.0 0.0 330.2

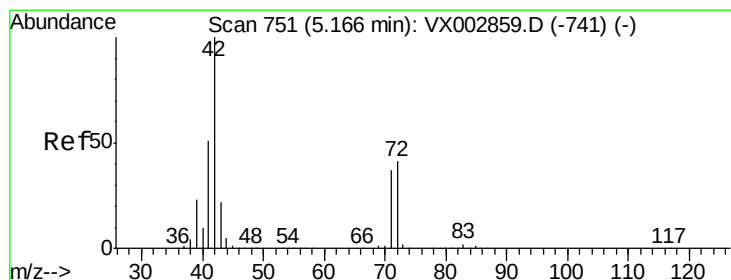
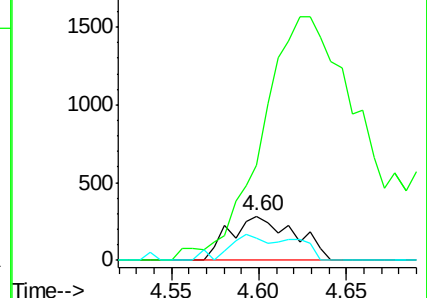
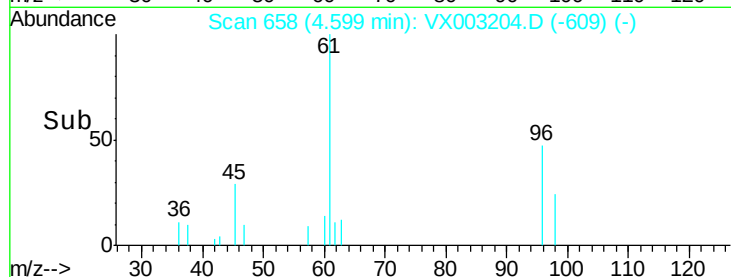
98 33.8 0.0 130.2



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



#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

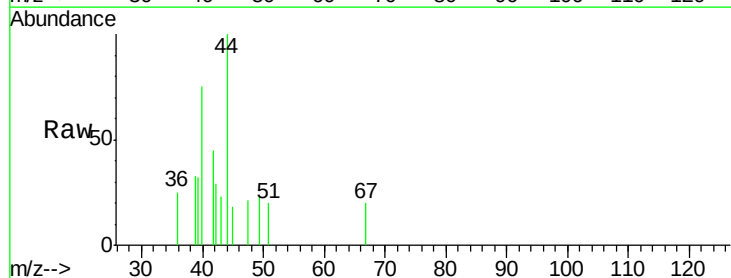
Tgt Ion: 42 Resp: 427

Ion Ratio Lower Upper

42 100

72 6.3 32.0 48.0#

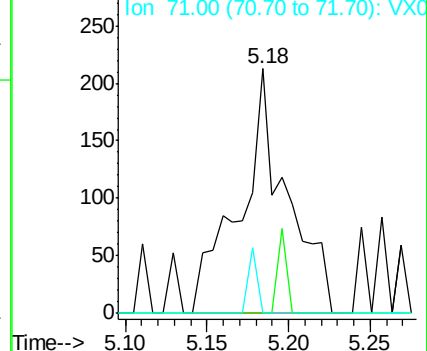
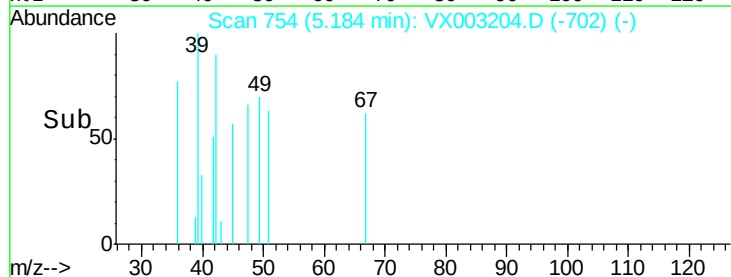
71 4.9 30.1 45.1#

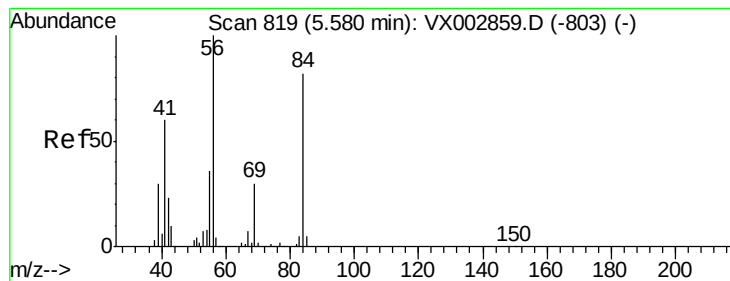


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.02 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

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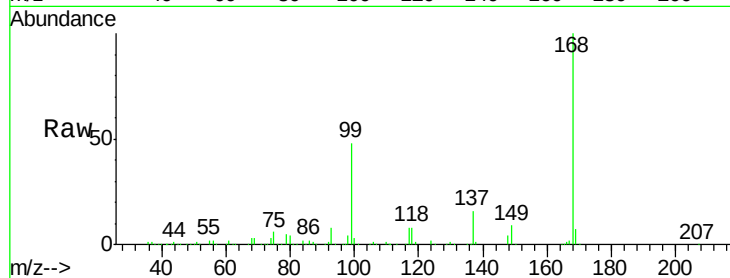
Tot Ion: 56 Resp: 4727

Ion Ratio Lower Upper

56 100

69 158.9 23.7 35.5#

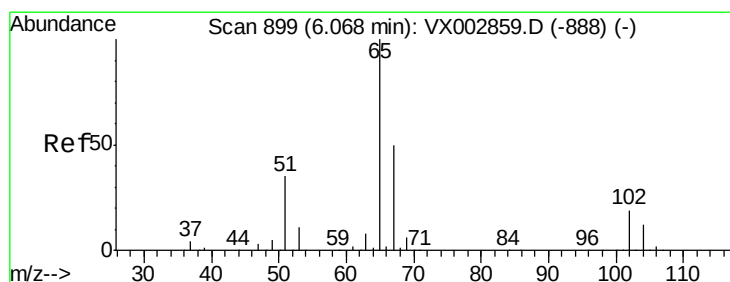
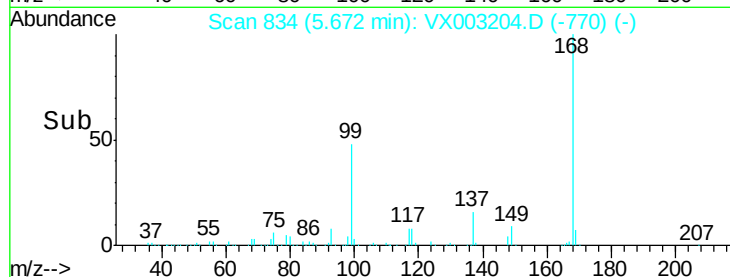
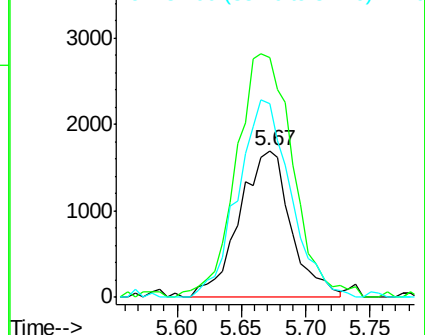
84 132.1 64.1 96.1#



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: 46.69 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003204.D

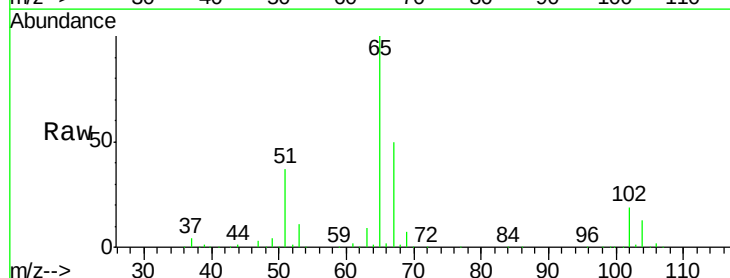
Acq: 06 Jul 2018 06:21

Tgt Ion: 65 Resp: 173109

Ion Ratio Lower Upper

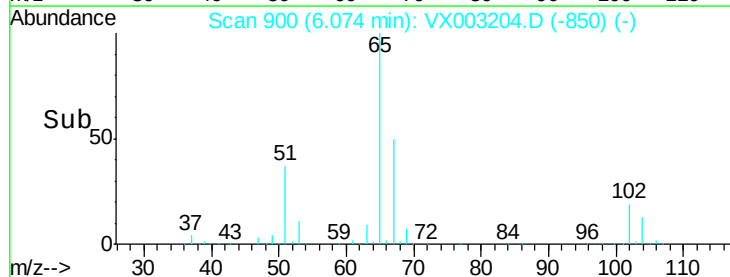
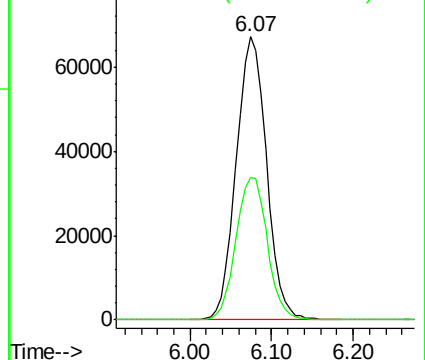
65 100

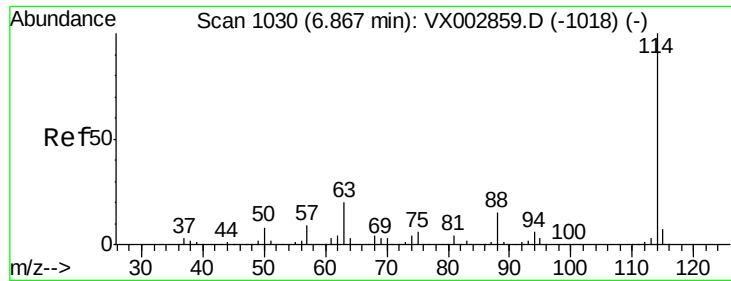
67 52.1 0.0 102.6



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: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

DUP-0493-180702

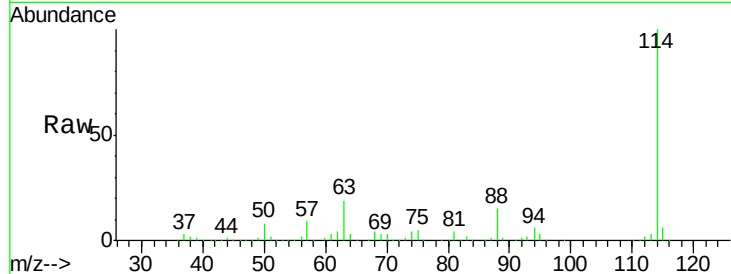
Tot Ion:114 Resp: 372737

Ion Ratio Lower Upper

114 100

63 19.1 0.0 41.4

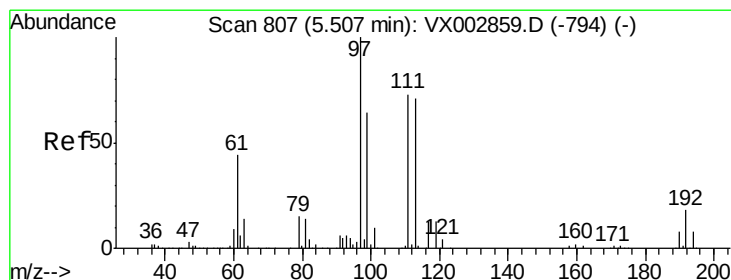
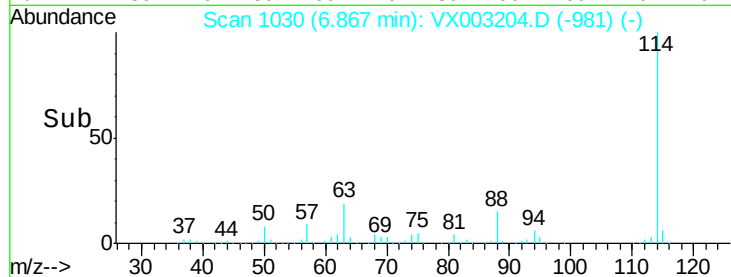
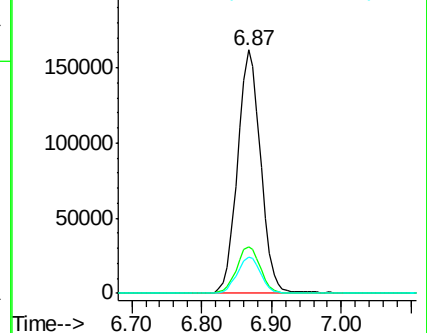
88 15.0 0.0 30.0



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: 48.94 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

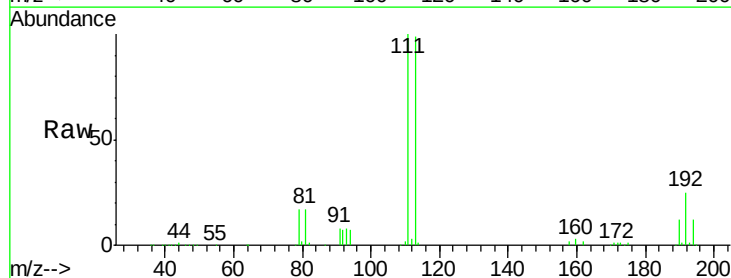
Tgt Ion:113 Resp: 144466

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

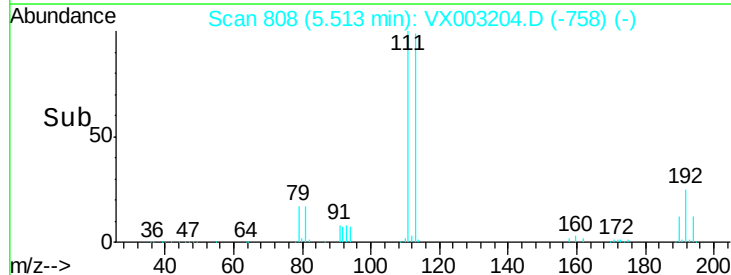
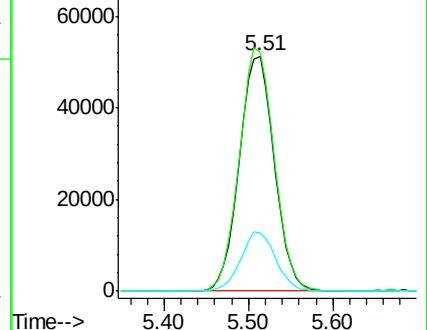
192 24.9 19.1 28.7

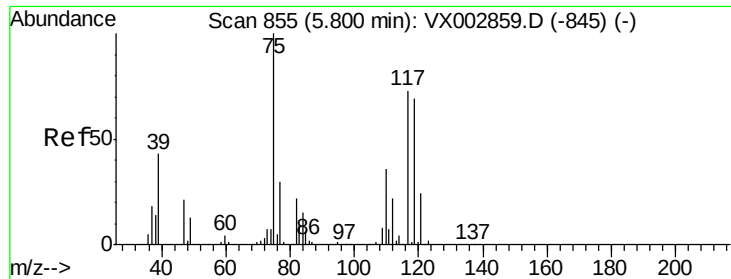


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.24 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

DUP-0493-180702

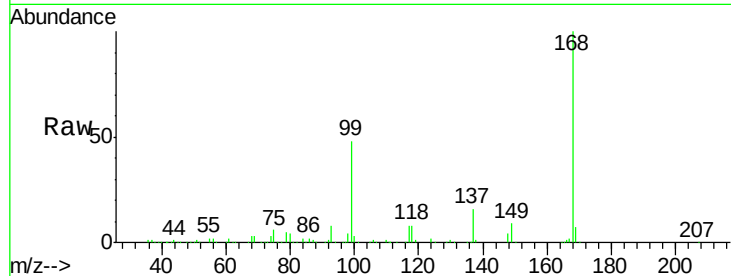
Tot Ion: 75 Resp: 17332

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

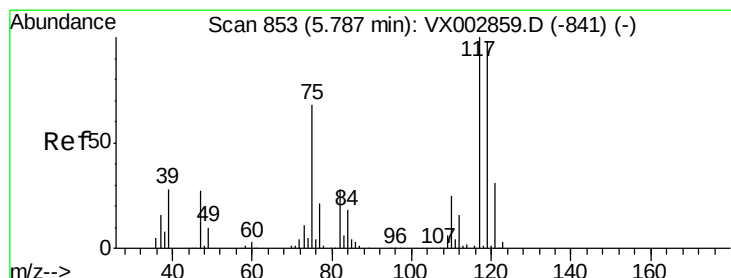
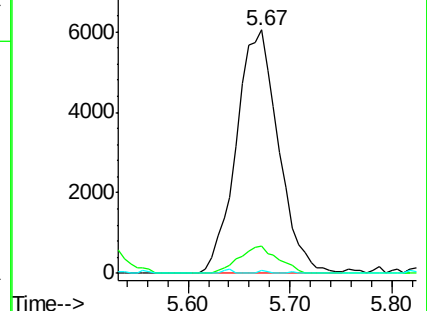
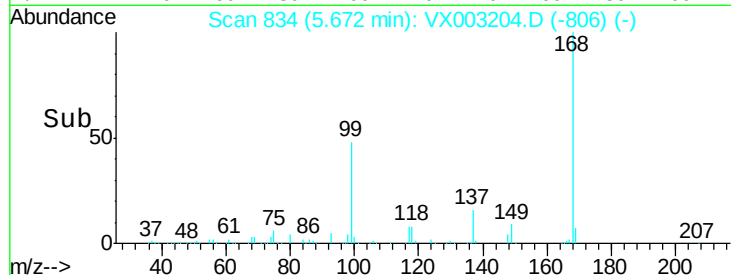
77 0.3 24.3 36.5#



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: 5.35 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

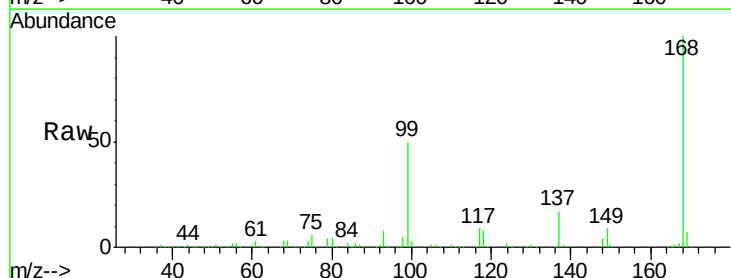
Tgt Ion: 117 Resp: 23986

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

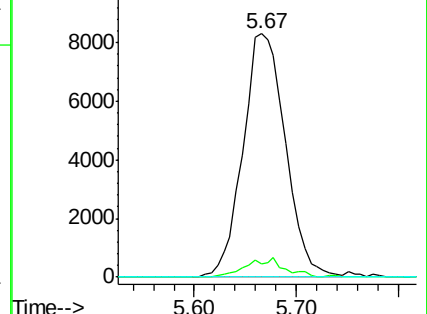
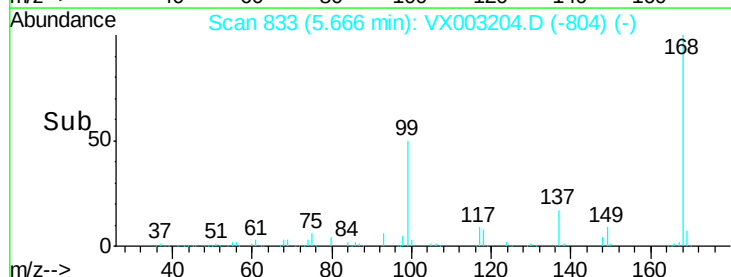
121 0.0 24.4 36.6#

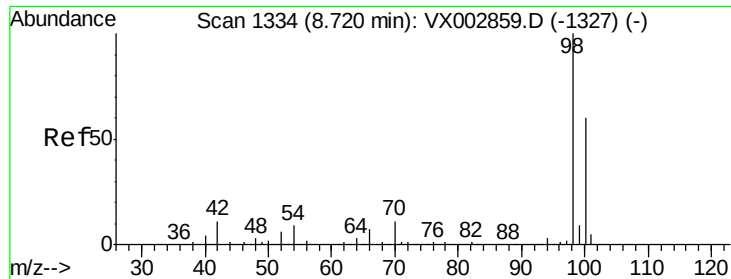


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.39 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

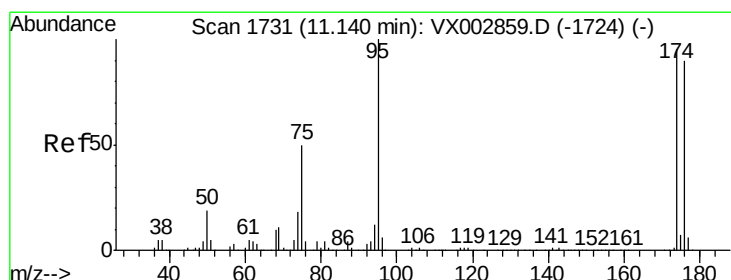
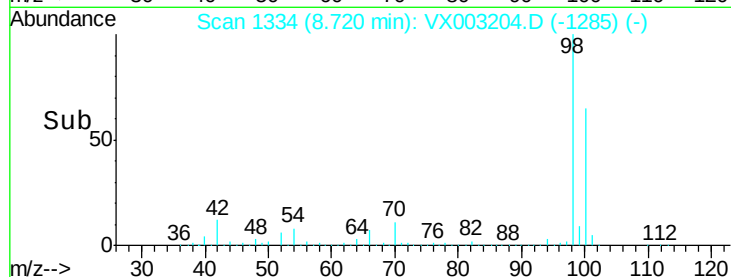
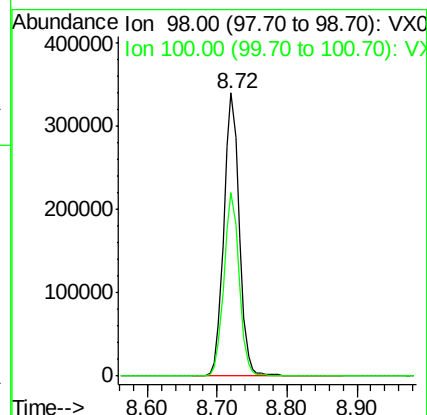
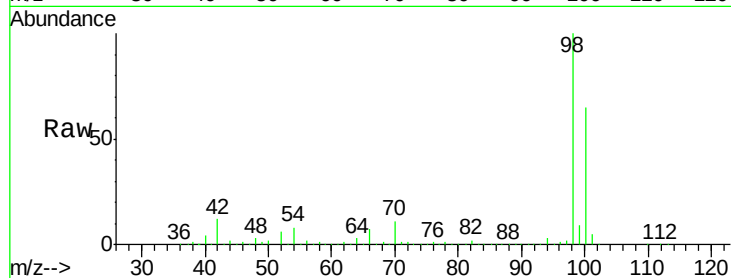
DUP-0493-180702

Tot Ion: 98 Resp: 521542

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



#62

4-Bromofluorobenzene

Concen: 43.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

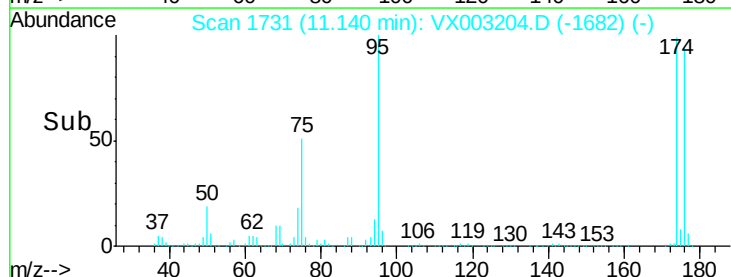
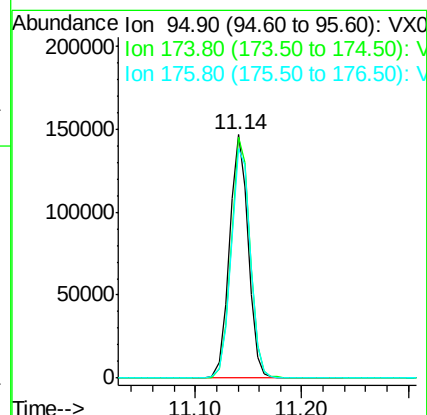
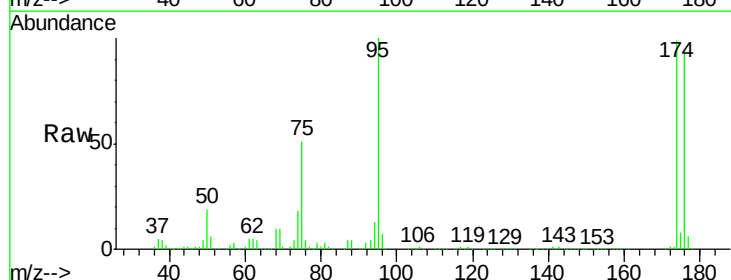
Tgt Ion: 95 Resp: 180835

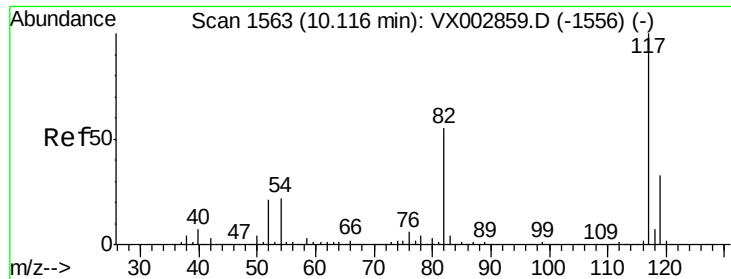
Ion Ratio Lower Upper

95 100

174 100.1 0.0 187.4

176 97.3 0.0 181.0

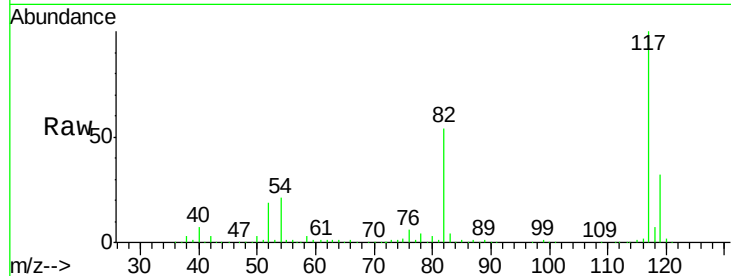




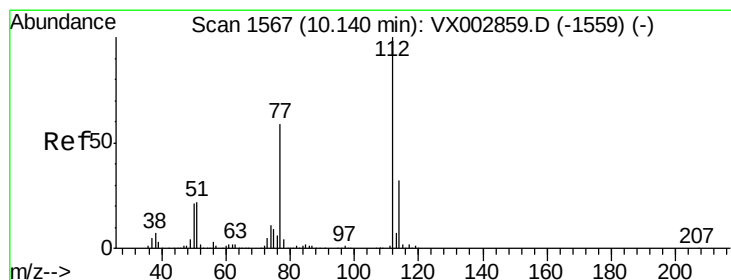
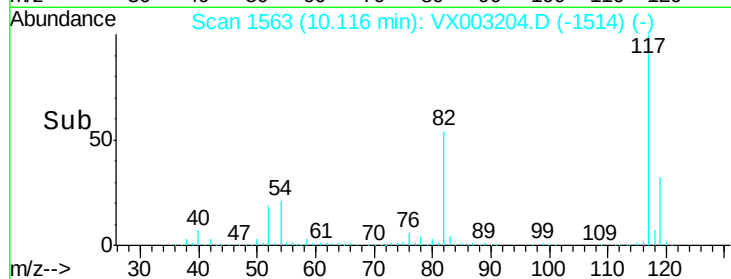
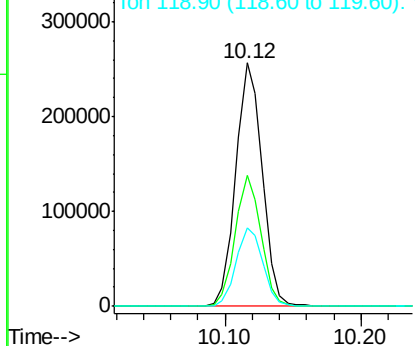
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003204.D
Acq: 06 Jul 2018 06:21

Instrument :
MSVOA_X
ClientSampleId :
DUP-0493-180702

Tot Ion:117 Resp: 347058
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 32.4 25.8 38.6

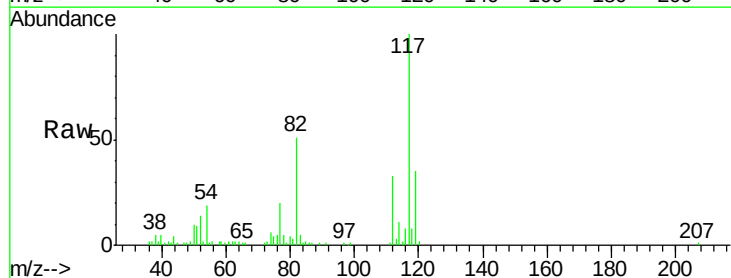


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

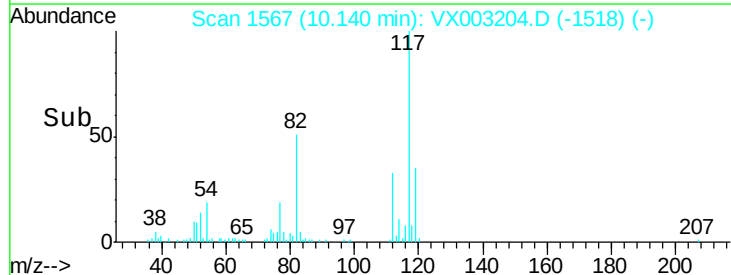
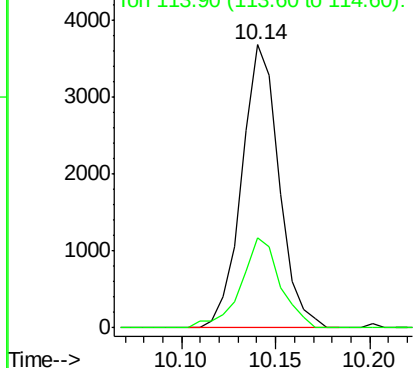


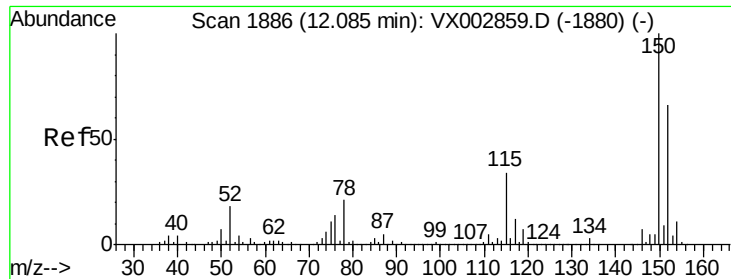
#65
Chlorobenzene
Concen: 0.57 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX003204.D
Acq: 06 Jul 2018 06:21

Tgt Ion:112 Resp: 5029
Ion Ratio Lower Upper
112 100
114 31.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003204.D

Acq: 06 Jul 2018 06:21

Instrument :

MSVOA_X

ClientSampleId :

DUP-0493-180702

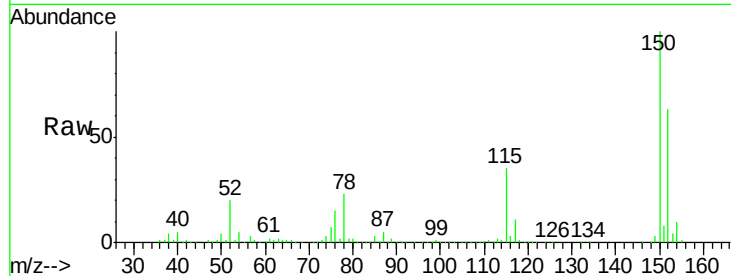
Tot Ion:152 Resp: 194813

Ion Ratio Lower Upper

152 100

115 53.8 40.1 120.2

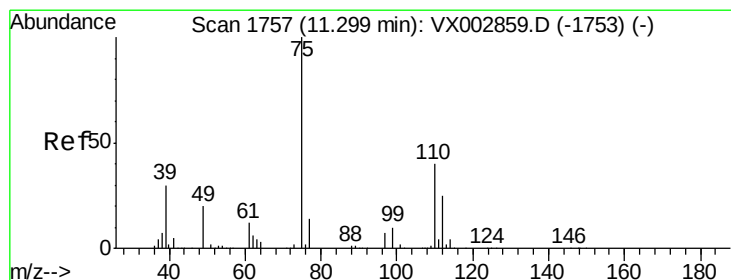
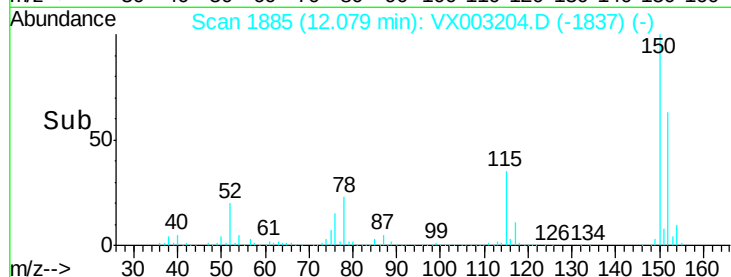
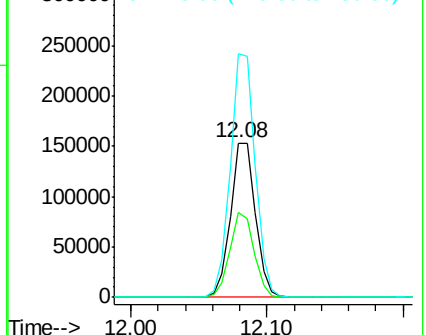
150 157.8 0.0 347.2



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: 25.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003204.D

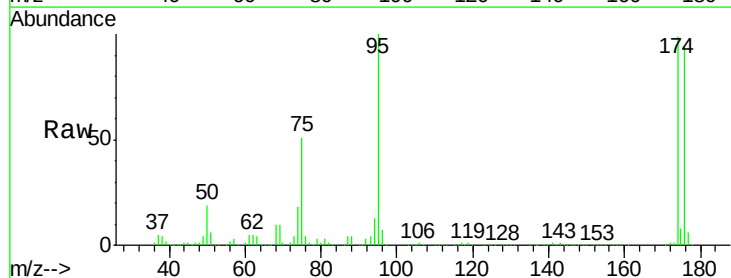
Acq: 06 Jul 2018 06:21

Tgt Ion: 75 Resp: 90918

Ion Ratio Lower Upper

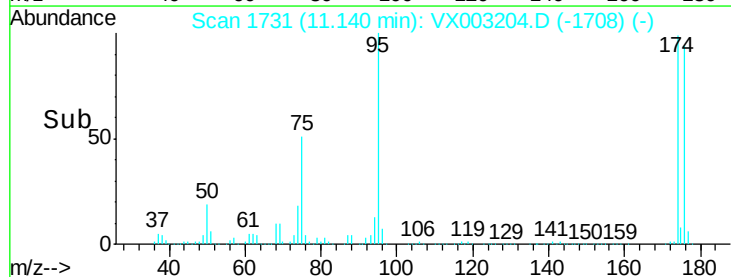
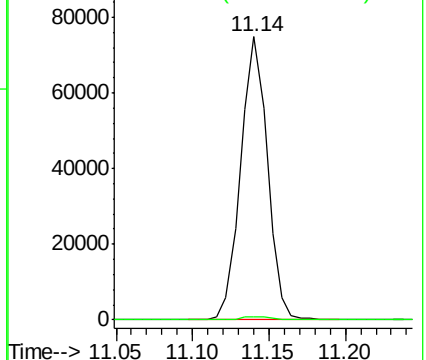
75 100

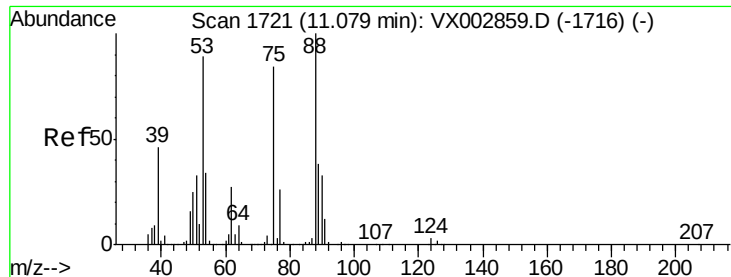
77 1.2 22.8 68.3#



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: 73.09 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003204.D
 Acq: 06 Jul 2018 06:21

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0493-180702

Tot Ion: 75 Resp: 90918
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#

