

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072318\
 Data File : VX003633.D
 Acq On : 24 Jul 2018 05:23
 Operator : JC/SP
 Sample : J4073-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 24 08:55:27 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	5.67	168	250563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	354577	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190667	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	140845	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
35) Dibromofluoromethane	5.51	113	134637	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	8.72	98	503219	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.14	95	171516	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	

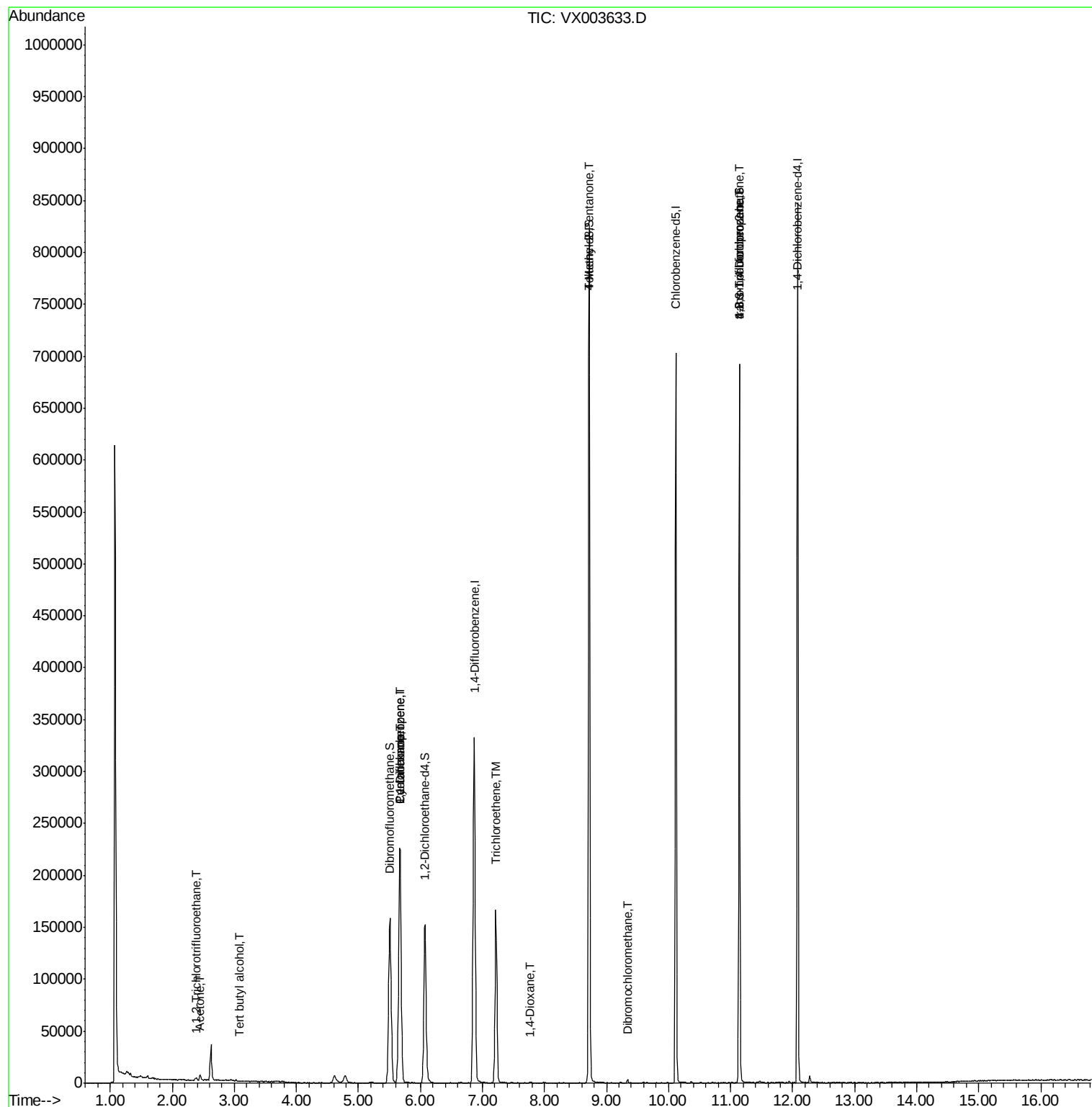
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	162	Below Cal		96
3) Chloromethane	1.32	50	963	Below Cal	#	81
5) Bromomethane	1.65	94	371	Below Cal		98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	927	0.33	ug/l #	86
11) Tert butyl alcohol	3.08	59	346	0.59	ug/l #	73
16) Acetone	2.45	43	5449	4.86	ug/l #	75
20) Methylene Chloride	2.85	84	222	Below Cal	#	67
31) Cyclohexane	5.67	56	3427	0.77	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14192	3.71	ug/l #	50
44) Trichloroethene	7.21	130	72699	21.09	ug/l	98
49) 1,4-Dioxane	7.77	88	631	9.58	ug/l	94
51) 4-Methyl-2-Pentanone	8.72	43	1818	0.50	ug/l #	1
60) Dibromochloromethane	9.34	129	630	0.22	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	77156	22.53	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	77156	63.31	ug/l #	7

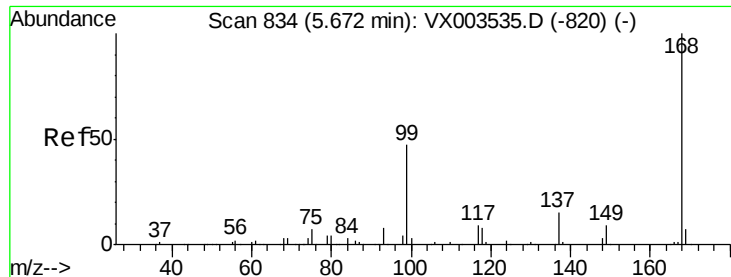
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003633.D

Acq: 24 Jul 2018 05:23

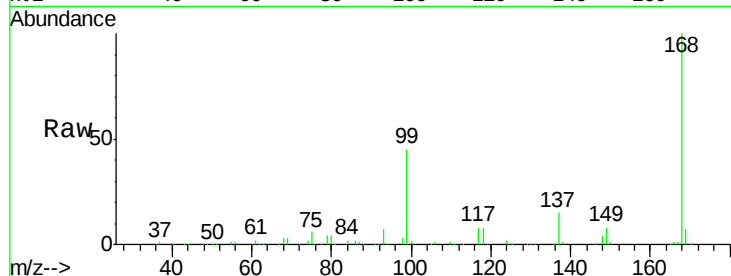
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 250563

Ion Ratio Lower Upper

168 100

99 44.6 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

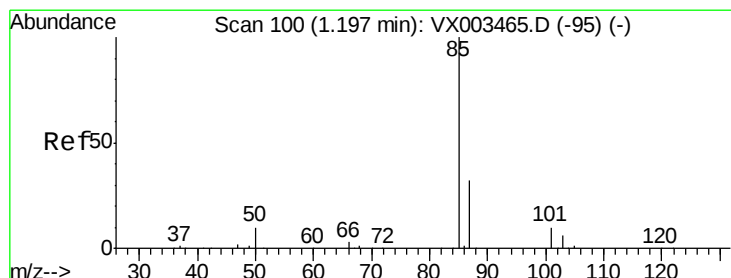
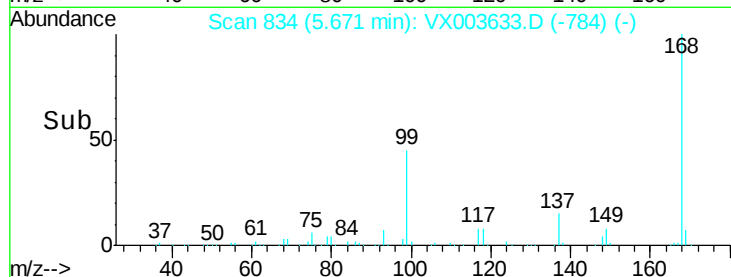
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003633.D

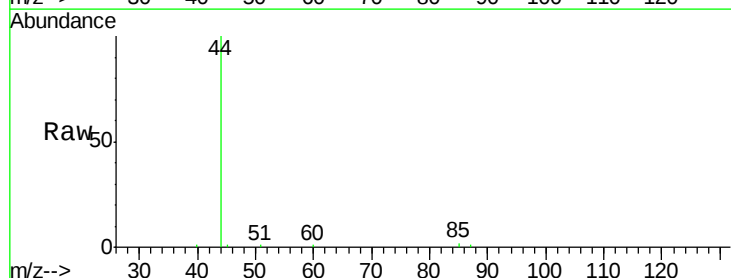
Acq: 24 Jul 2018 05:23

Tgt Ion: 85 Resp: 162

Ion Ratio Lower Upper

85 100

87 29.5 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

200

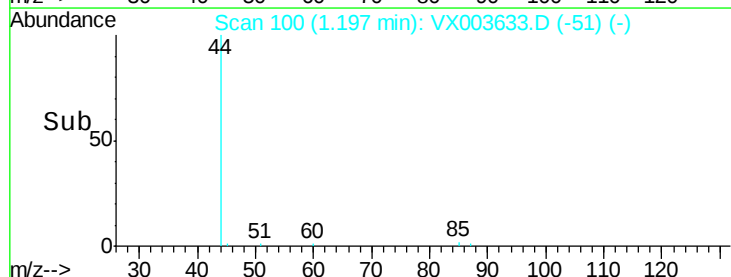
150

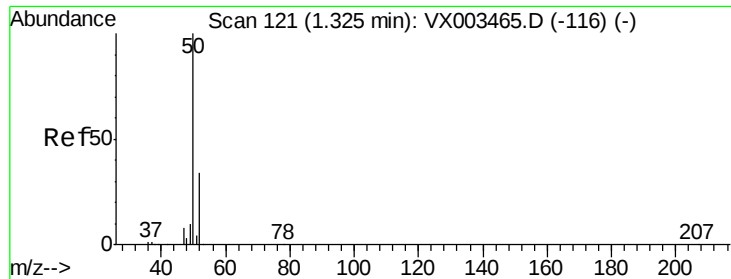
100

50

0

Time--> 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: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

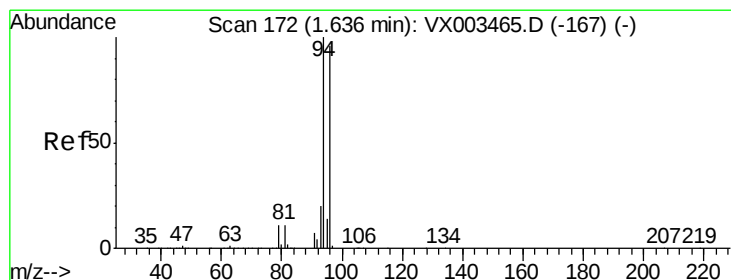
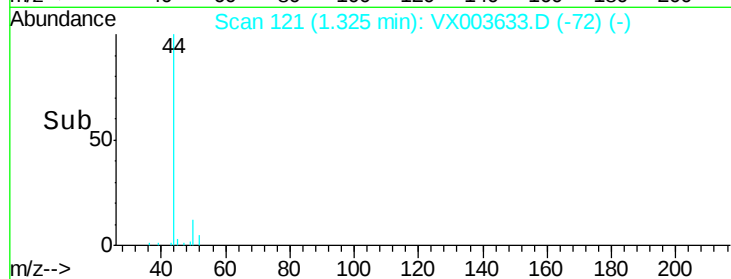
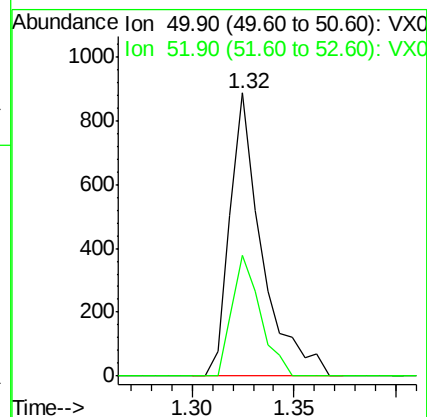
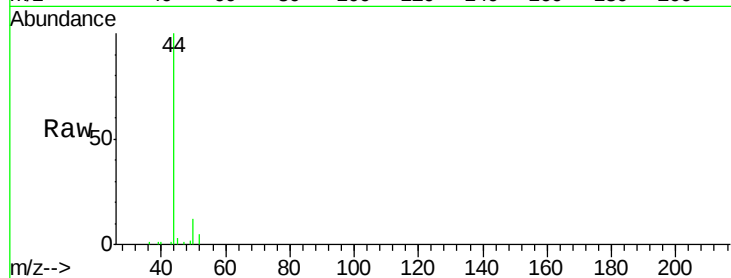
ClientSampleId :

Tot Ion: 50 Resp: 963

Ion Ratio Lower Upper

50 100

52 42.8 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003633.D

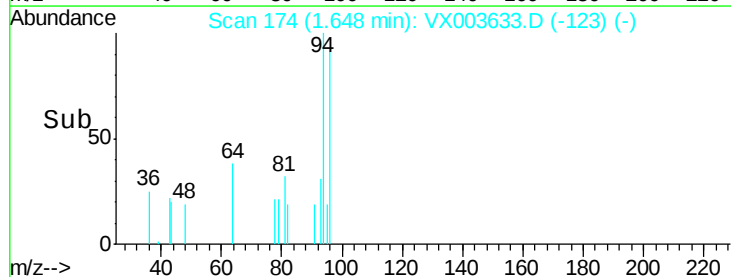
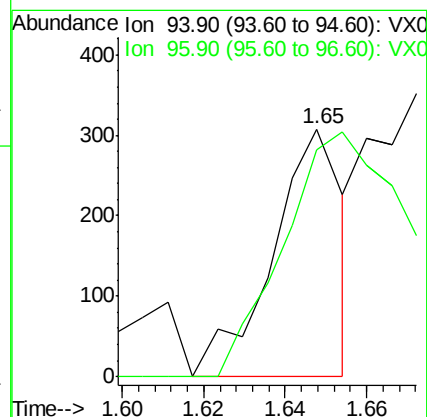
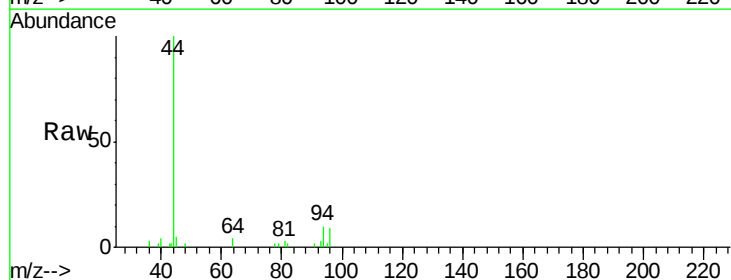
Acq: 24 Jul 2018 05:23

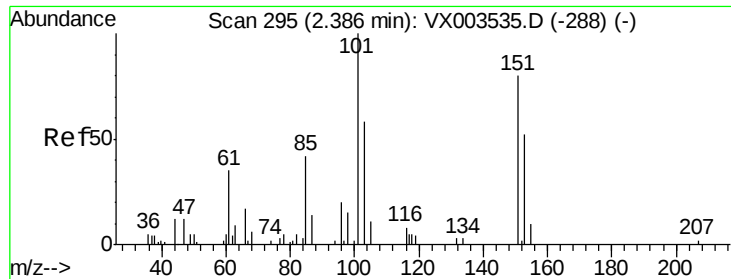
Tgt Ion: 94 Resp: 371

Ion Ratio Lower Upper

94 100

96 91.6 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.33 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003633.D

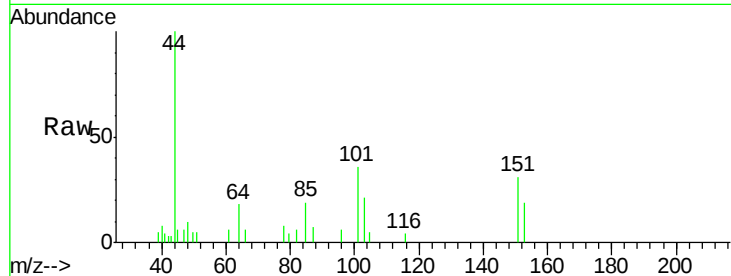
Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

ClientSampleId :

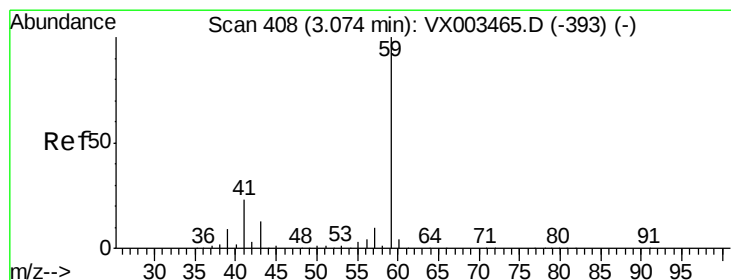
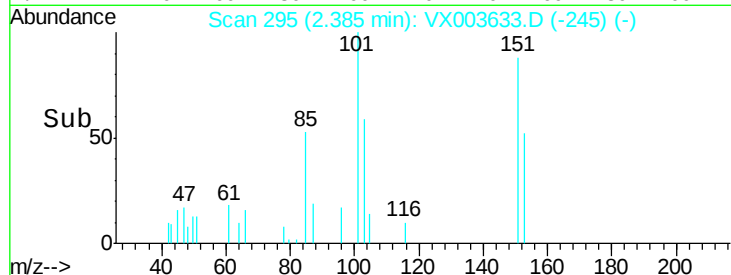
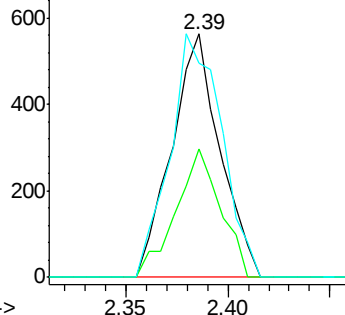
Tot Ion:	101	Resp:	927
Ion	Ratio	Lower	Upper
101	100		
85	48.4	36.0	54.0
151	106.4	70.9	106.3#



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



#11

Tert butyl alcohol

Concen: 0.59 ug/l

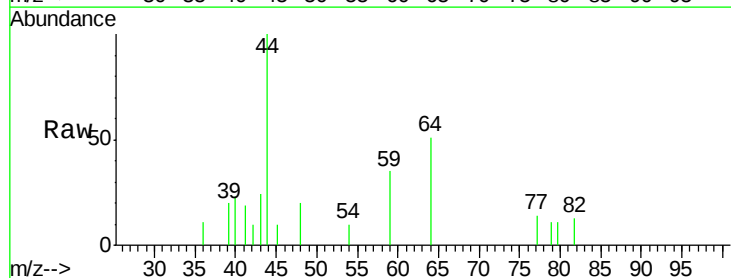
RT: 3.08 min Scan# 409

Delta R.T. 0.01 min

Lab File: VX003633.D

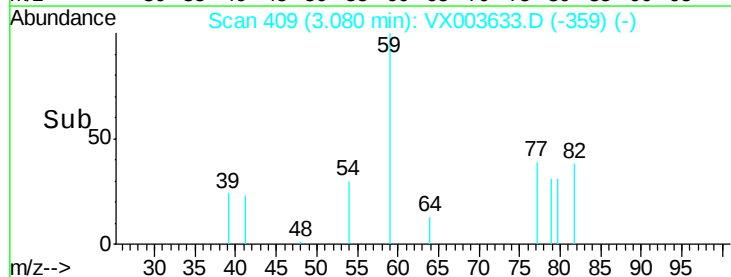
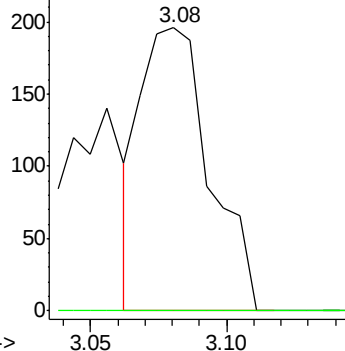
Acq: 24 Jul 2018 05:23

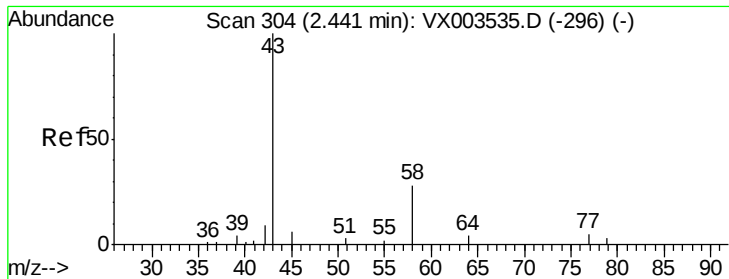
Tgt Ion:	59	Resp:	346
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.86 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

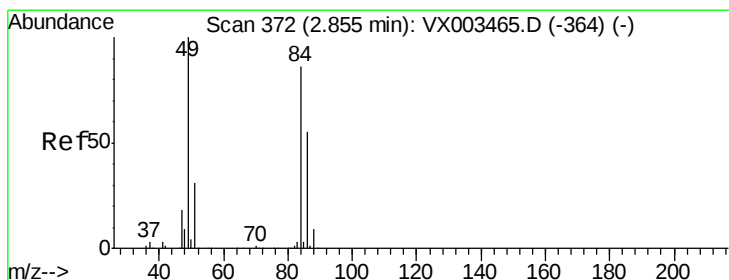
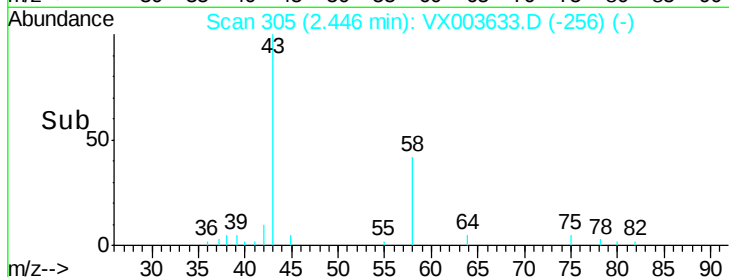
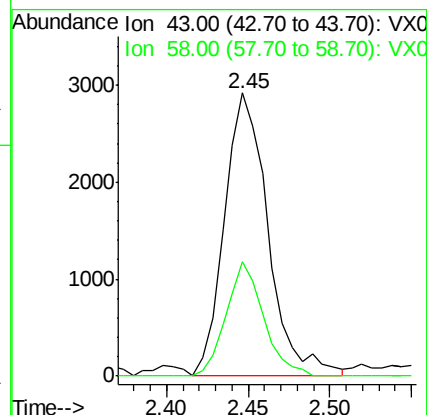
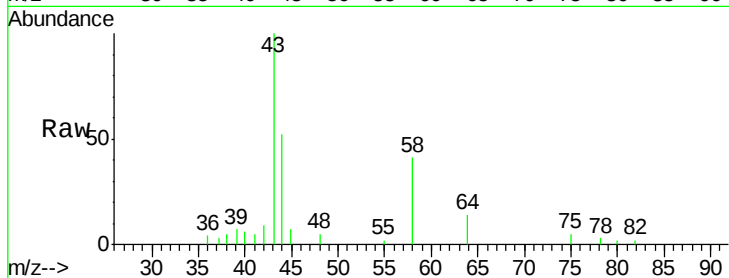
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 5449

Ion Ratio Lower Upper

43 100

58 40.5 22.1 33.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

Tgt Ion: 84 Resp: 222

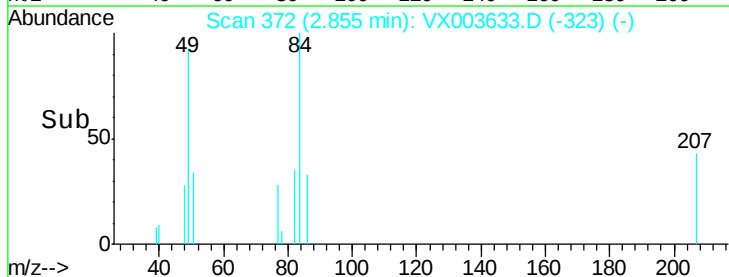
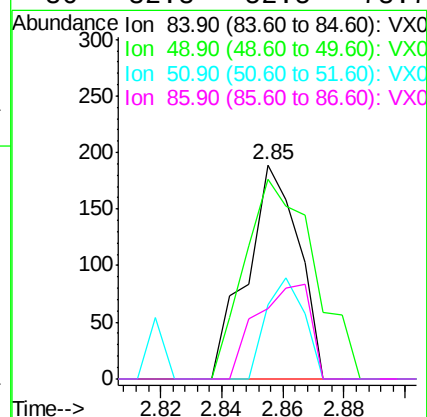
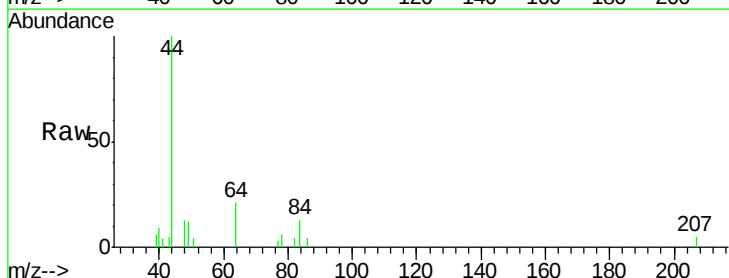
Ion Ratio Lower Upper

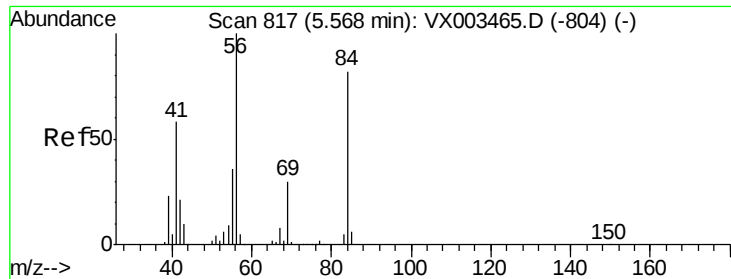
84 100

49 93.1 107.8 161.6#

51 34.4 32.8 49.2

86 32.8 52.5 78.7#





#31

Cyclohexane

Concen: 0.77 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :
MSVOA_X
ClientSampleId :

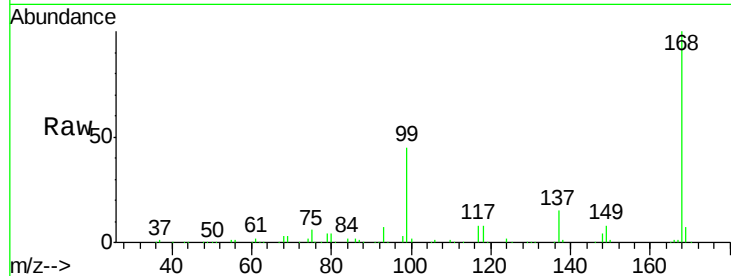
Tot Ion: 56 Resp: 3427

Ion Ratio Lower Upper

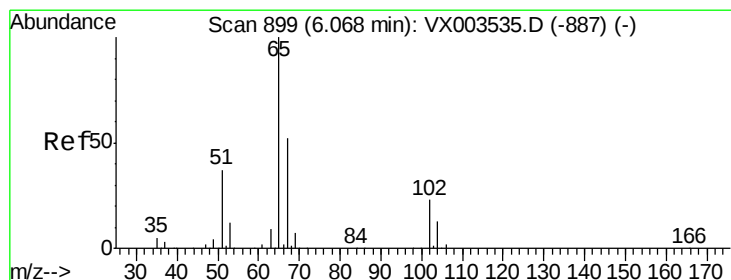
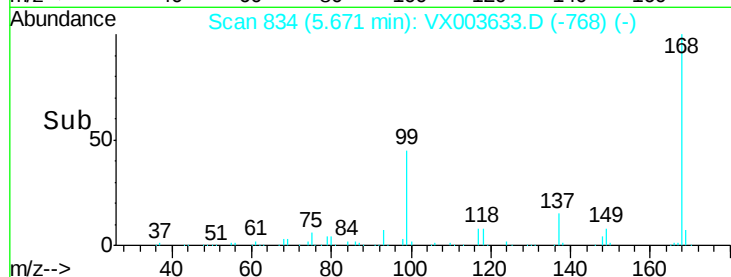
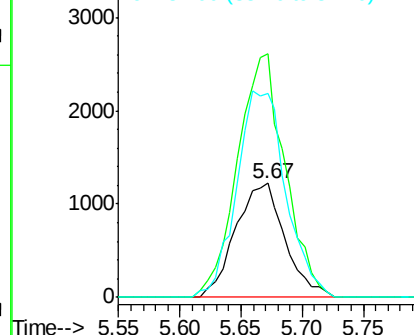
56 100

69 213.9 23.7 35.5#

84 179.4 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: 47.49 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003633.D

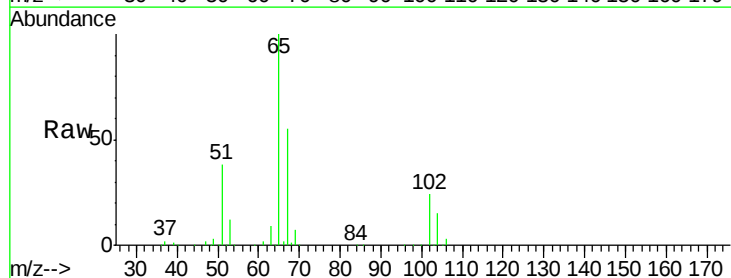
Acq: 24 Jul 2018 05:23

Tgt Ion: 65 Resp: 140845

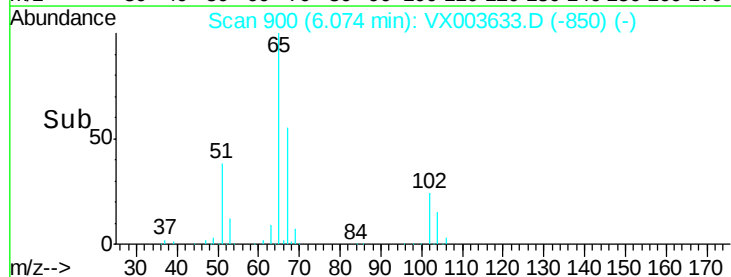
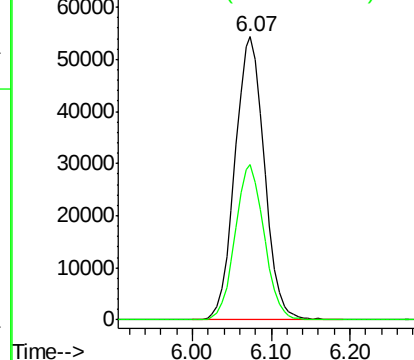
Ion Ratio Lower Upper

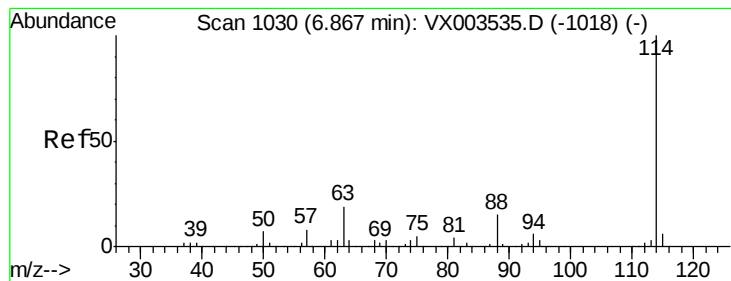
65 100

67 54.3 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: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

ClientSampleId :

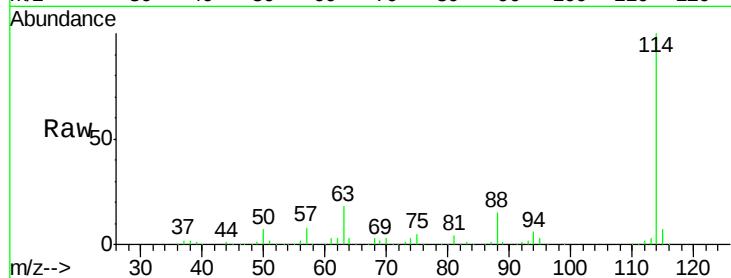
Tot Ion:114 Resp: 354577

Ion Ratio Lower Upper

114 100

63 18.2 0.0 41.4

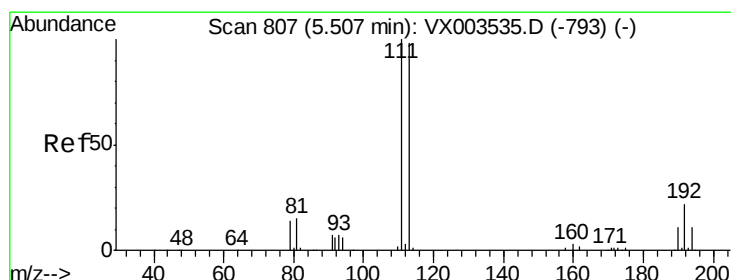
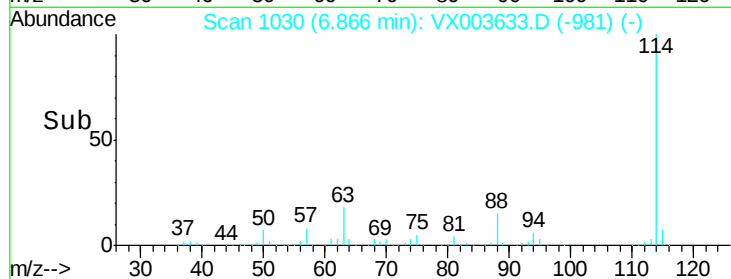
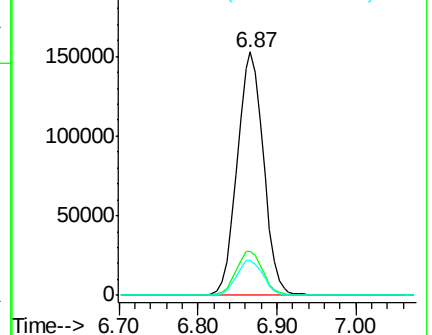
88 14.6 0.0 30.0



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: 49.85 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

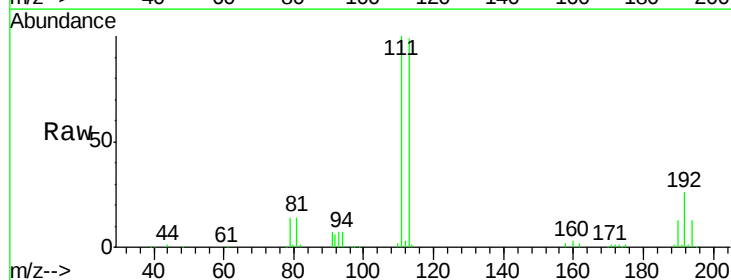
Tgt Ion:113 Resp: 134637

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

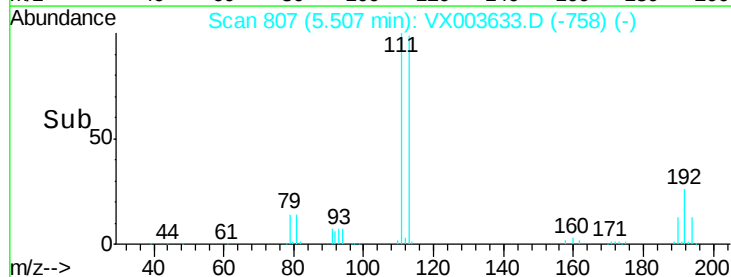
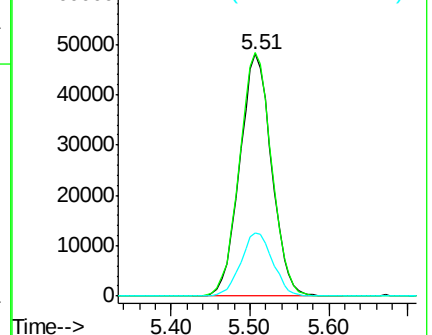
192 26.2 19.1 28.7

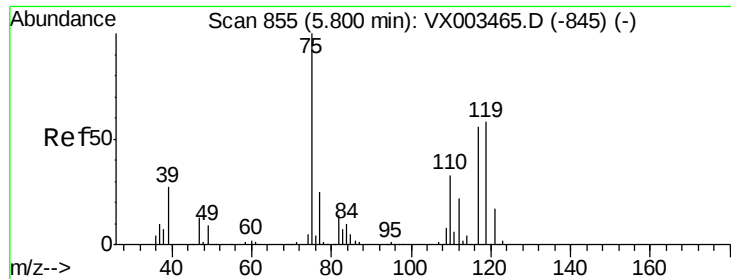


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.71 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

ClientSampleId :

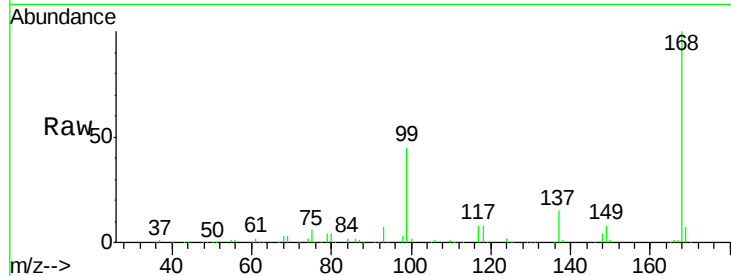
Tot Ion: 75 Resp: 14192

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

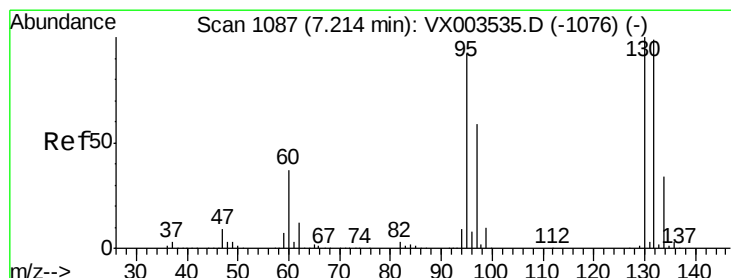
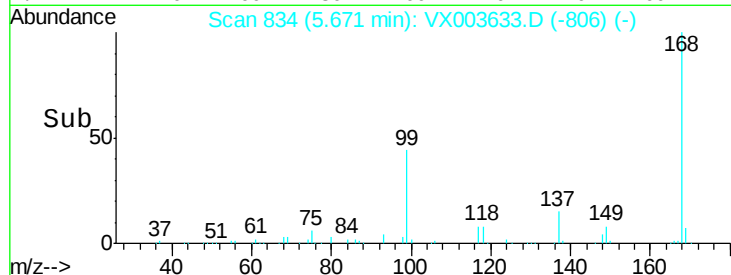
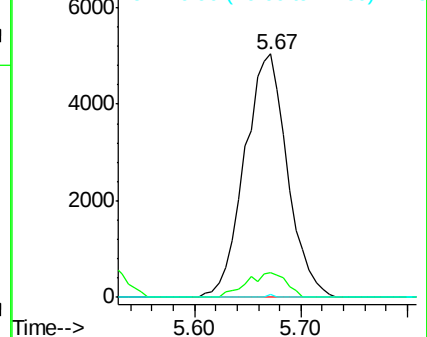
77 0.1 24.3 36.5#



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



#44

Trichloroethene

Concen: 21.09 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX003633.D

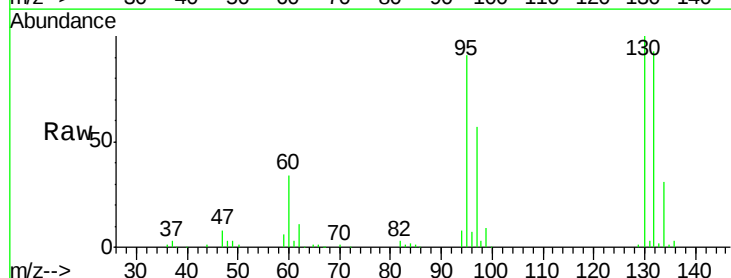
Acq: 24 Jul 2018 05:23

Tgt Ion:130 Resp: 72699

Ion Ratio Lower Upper

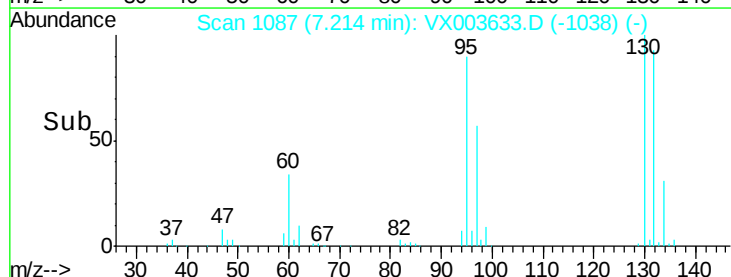
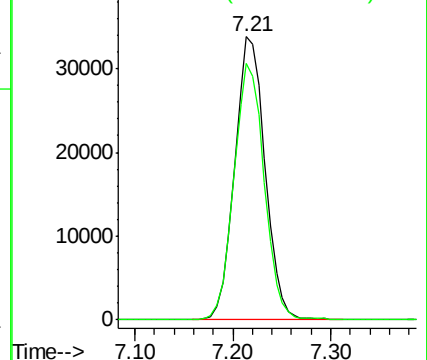
130 100

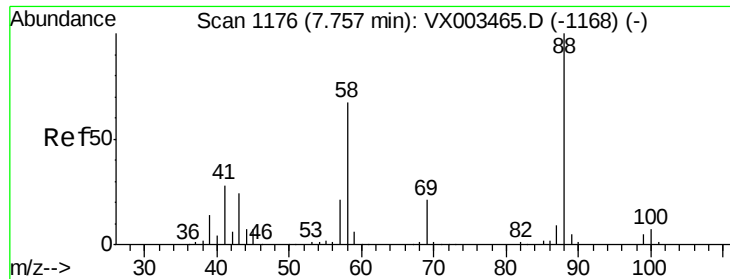
95 90.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

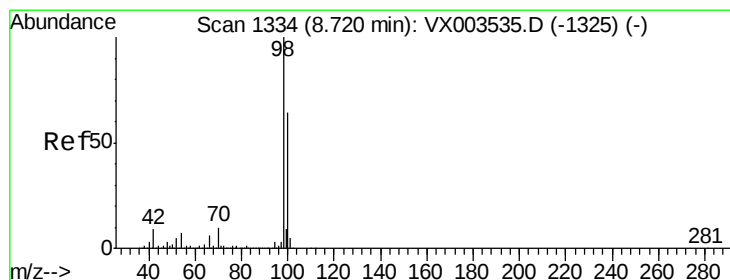
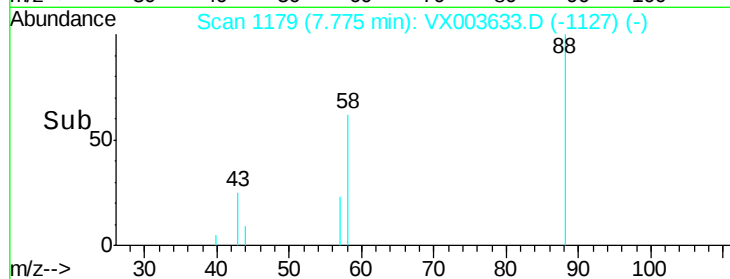
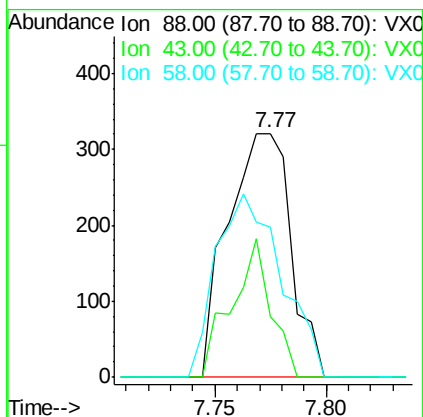
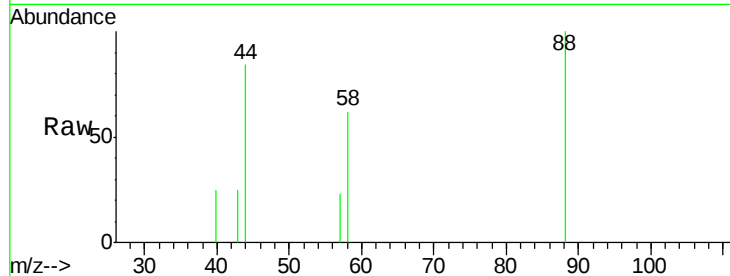




#49
 1,4-Dioxane
 Concen: 9.58 ug/l
 RT: 7.77 min Scan# 1179
 Delta R.T. 0.02 min
 Lab File: VX003633.D
 Acq: 24 Jul 2018 05:23

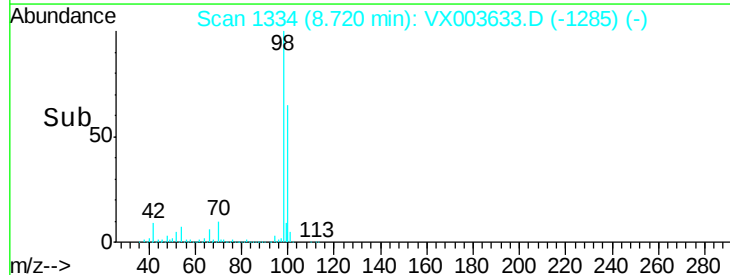
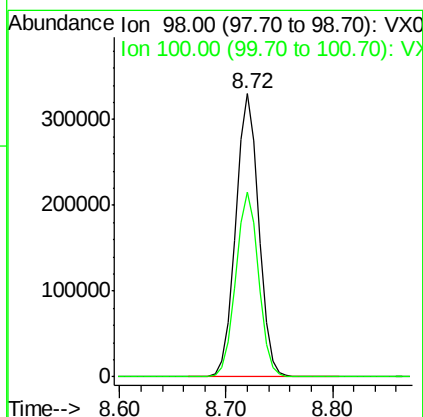
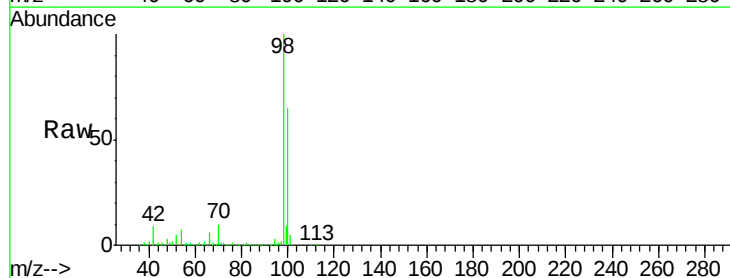
Instrument :
 MSVOA_X
 ClientSampleId :

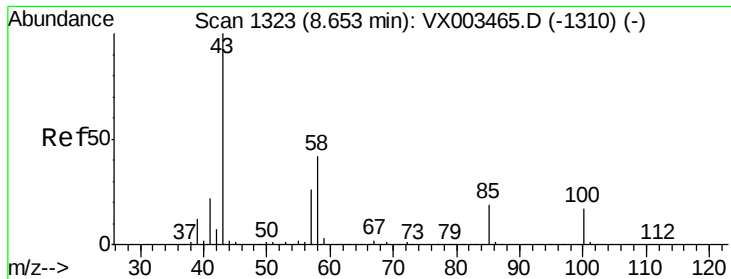
Tot Ion: 88 Resp: 631
 Ion Ratio Lower Upper
 88 100
 43 35.3 29.8 44.6
 58 78.1 57.1 85.7



#50
 Toluene-d8
 Concen: 49.57 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003633.D
 Acq: 24 Jul 2018 05:23

Tgt Ion: 98 Resp: 503219
 Ion Ratio Lower Upper
 98 100
 100 64.7 50.9 76.3

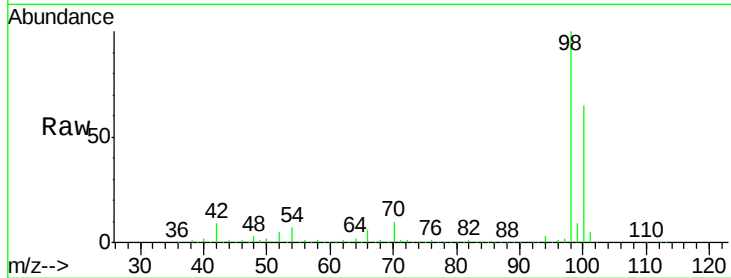




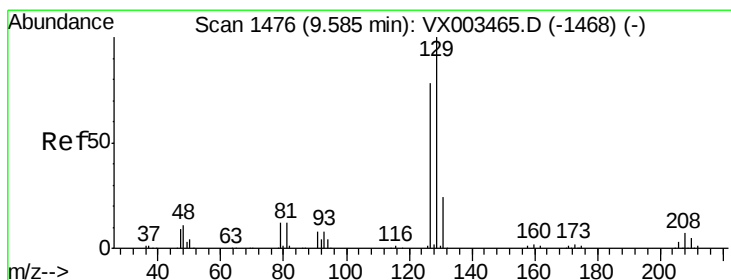
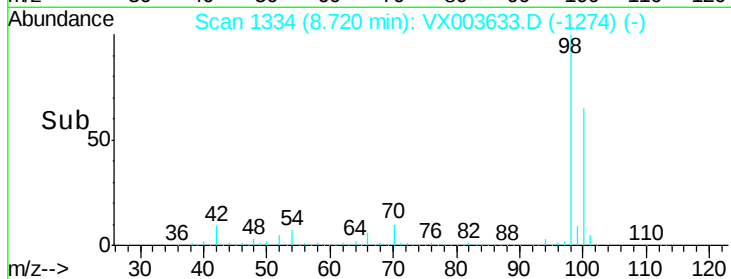
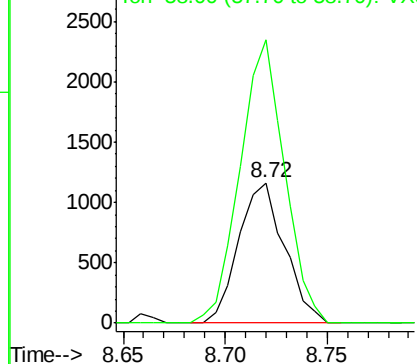
#51
4-Methyl-2-Pentanone
Concen: 0.50 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.07 min
Lab File: VX003633.D
Acq: 24 Jul 2018 05:23

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1818
Ion Ratio Lower Upper
43 100
58 196.0 28.6 42.8#

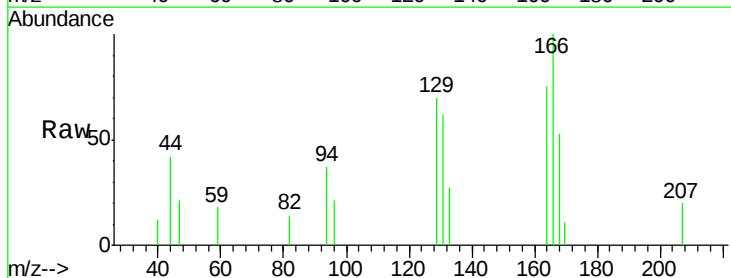


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

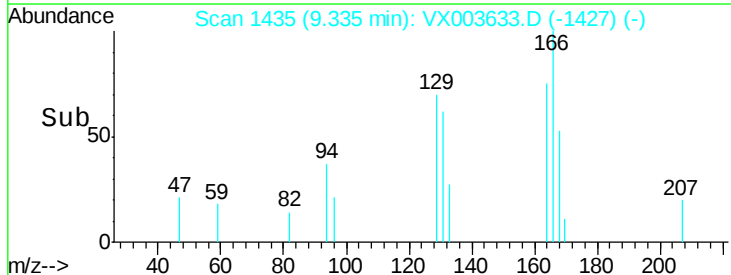
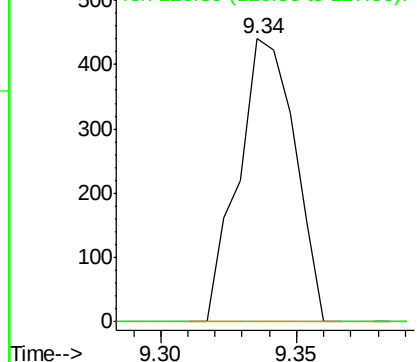


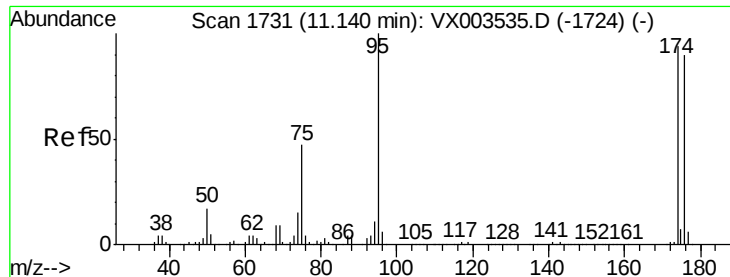
#60
Dibromochloromethane
Concen: 0.22 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX003633.D
Acq: 24 Jul 2018 05:23

Tgt Ion: 129 Resp: 630
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 46.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

ClientSampleId :

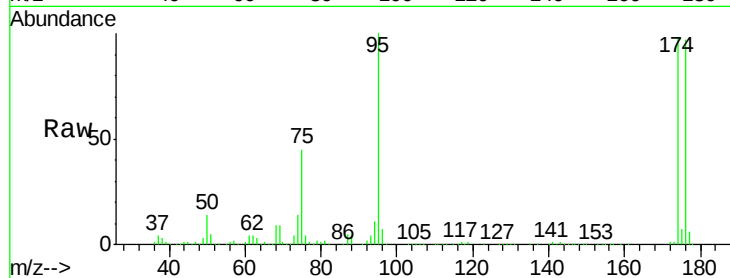
Tot Ion: 95 Resp: 171516

Ion Ratio Lower Upper

95 100

174 102.4 0.0 187.4

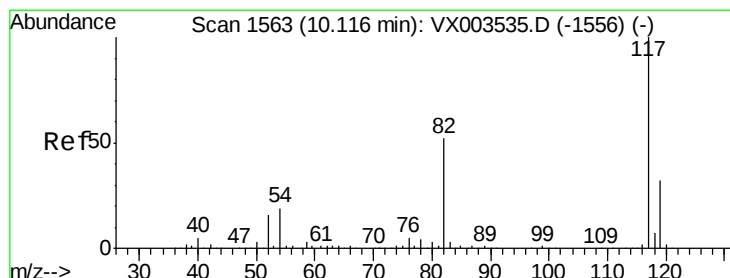
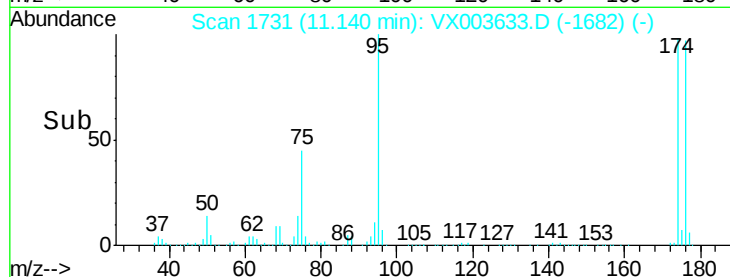
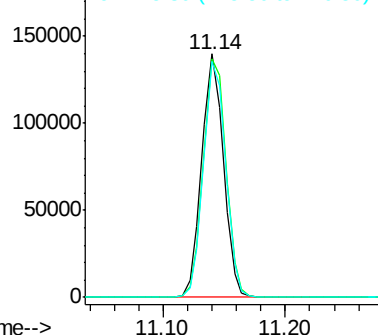
176 99.2 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003633.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003633.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003633.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

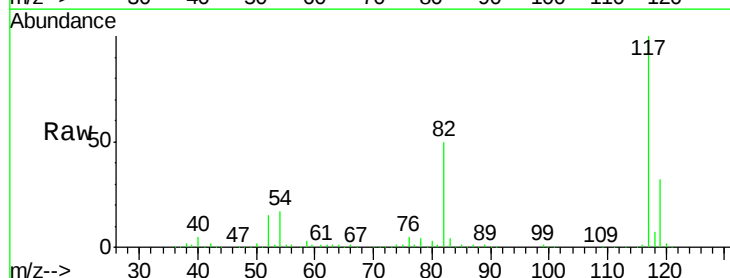
Tgt Ion: 117 Resp: 340906

Ion Ratio Lower Upper

117 100

82 50.3 45.0 67.4

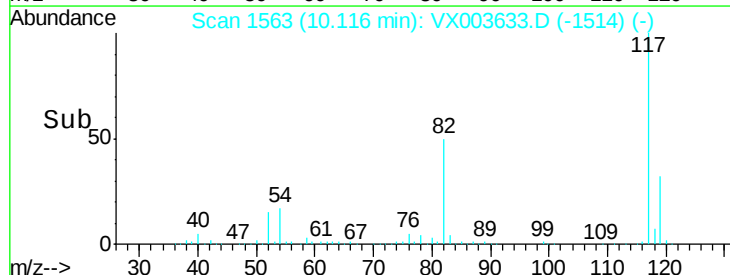
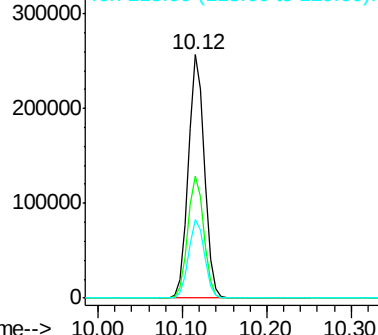
119 32.2 25.8 38.6

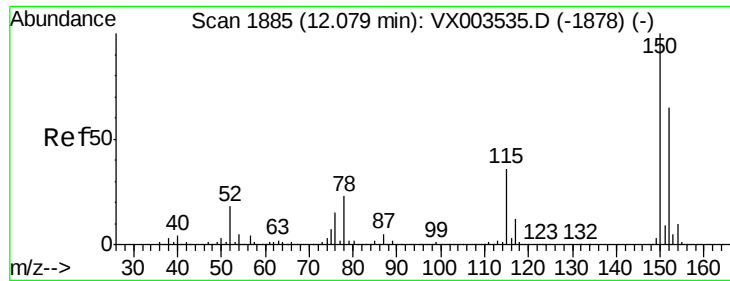


Abundance Ion 116.90 (116.60 to 117.60): VX003633.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003633.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003633.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

ClientSampleId :

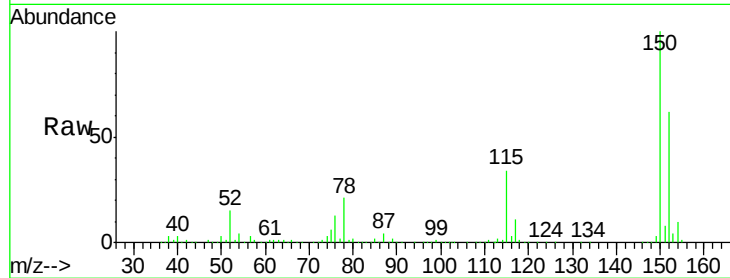
Tot Ion:152 Resp: 190667

Ion Ratio Lower Upper

152 100

115 52.2 40.1 120.2

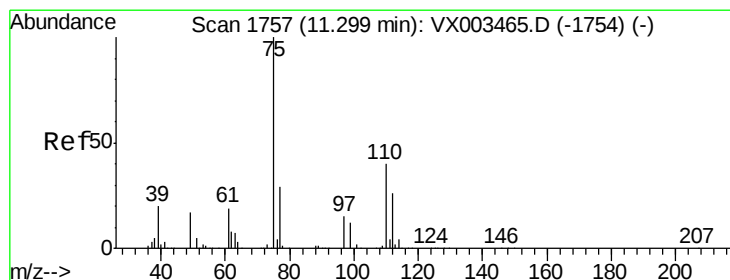
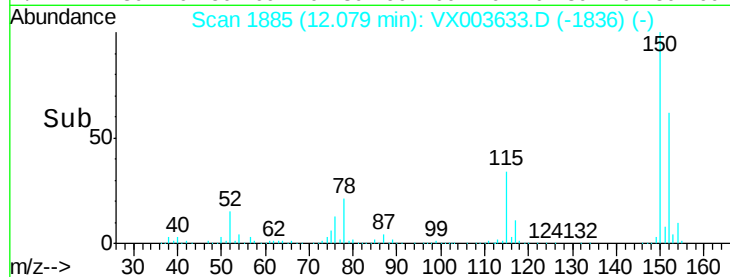
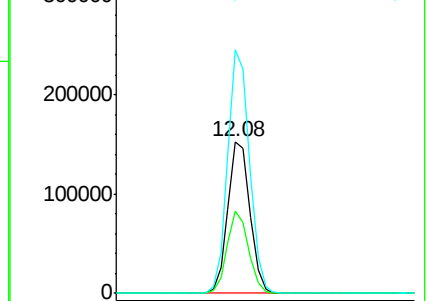
150 158.5 0.0 347.2



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: 22.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003633.D

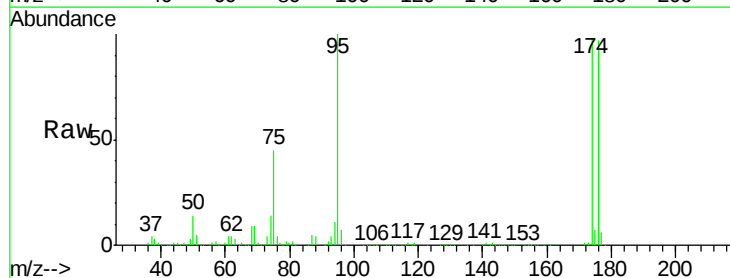
Acq: 24 Jul 2018 05:23

Tgt Ion: 75 Resp: 77156

Ion Ratio Lower Upper

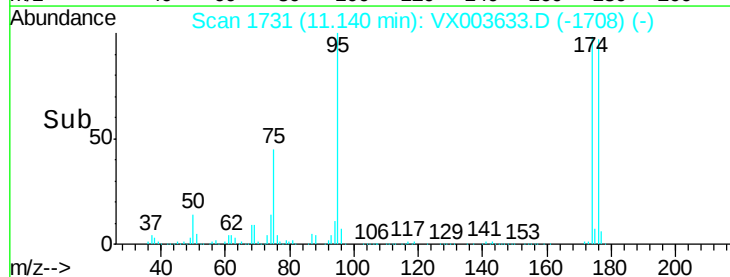
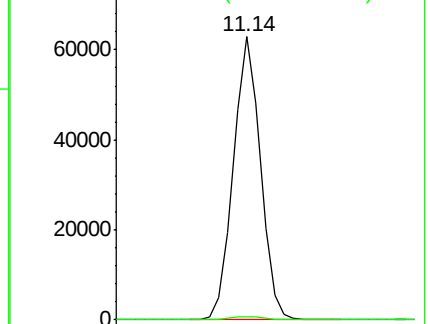
75 100

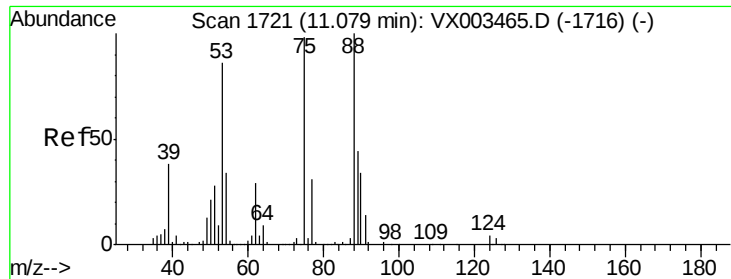
77 1.4 22.8 68.3#



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: 63.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003633.D

Acq: 24 Jul 2018 05:23

Instrument :

MSVOA_X

ClientSampleId :

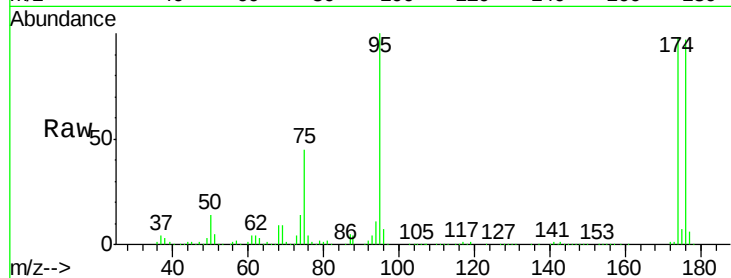
Tot Ion: 75 Resp: 77156

Ion Ratio Lower Upper

75 100

53 0.1 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

