

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002773.D
 Acq On : 21 Jun 2018 06:04
 Operator : JC/MD
 Sample : PB110408ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 07:42:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	223098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	321370	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167982	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	155002	45.72	ug/l	0.00
Spiked Amount			Recovery	=	91.44%	
35) Dibromofluoromethane	5.51	113	123597	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
50) Toluene-d8	8.72	98	453686	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
62) 4-Bromofluorobenzene	11.14	95	158311	42.90	ug/l	0.00
Spiked Amount			Recovery	=	85.80%	

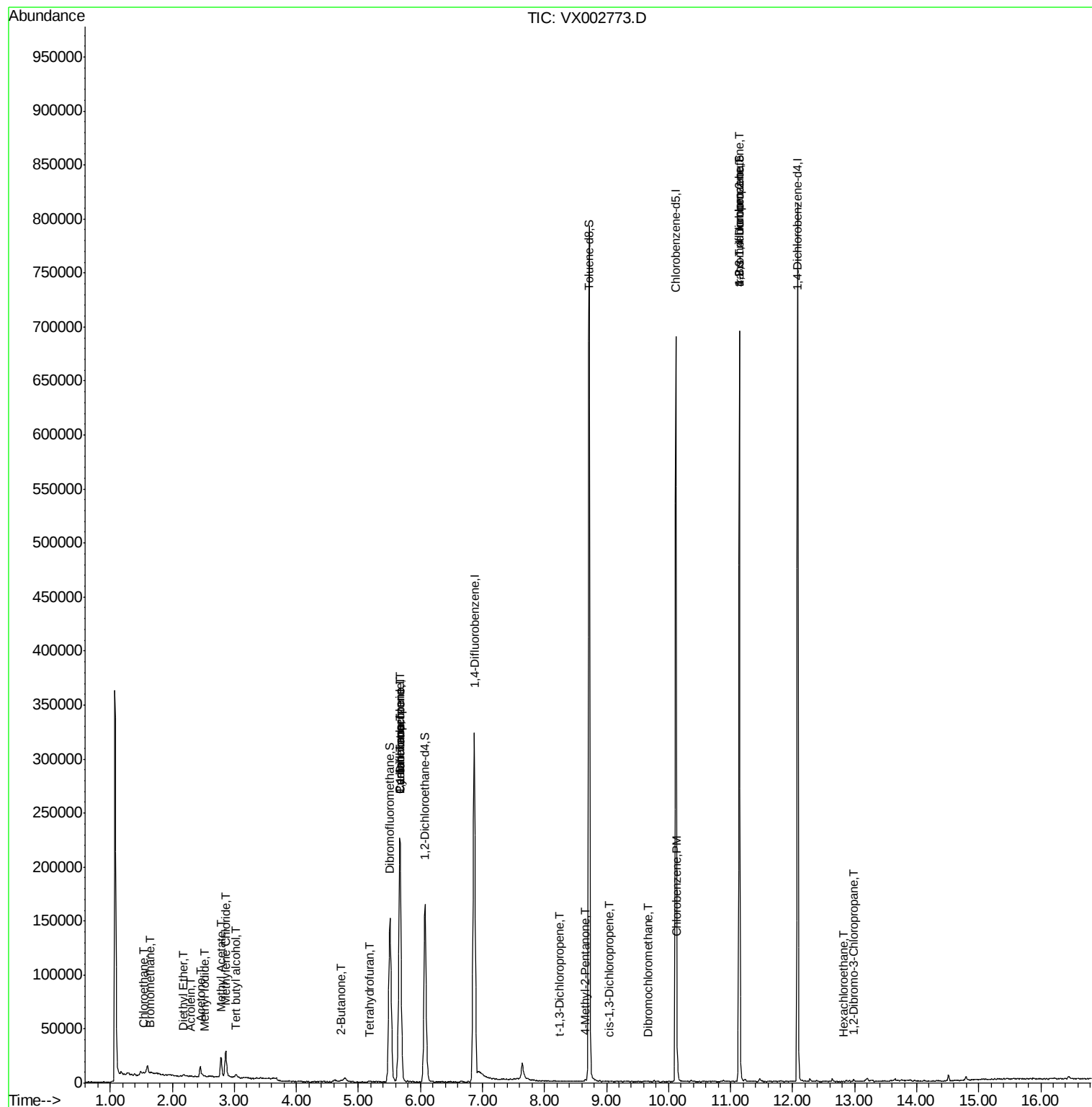
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1108	0.63	ug/l	92
6) Chloroethane	1.54	64	5323	2.76	ug/l	# 68
8) Diethyl Ether	2.18	74	500	0.28	ug/l	87
10) Methyl Iodide	2.52	142	781	5.38	ug/l	# 86
11) Tert butyl alcohol	3.03	59	2066	2.95	ug/l	95
13) Acrolein	2.29	56	147	7.30	ug/l	# 73
16) Acetone	2.45	43	11053	7.39	ug/l	100
18) Methyl Acetate	2.78	43	24023	6.03	ug/l	100
20) Methylene Chloride	2.86	84	11649	3.80	ug/l	98
25) 2-Butanone	4.71	43	1834	0.93	ug/l	97
29) Tetrahydrofuran	5.18	42	730	0.57	ug/l	# 81
31) Cyclohexane	5.67	56	4576	1.14	ug/l	# 9
36) 1,1-Dichloropropene	5.67	75	15323	4.49	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	21155	6.22	ug/l	# 15
51) 4-Methyl-2-Pentanone	8.65	43	975	0.24	ug/l	# 70
53) t-1,3-Dichloropropene	8.25	75	21	2.40	ug/l	# 43
54) cis-1,3-Dichloropropene	9.04	75	22	3.22	ug/l	# 66
60) Dibromochloromethane	9.67	129	21	3.77	ug/l	# 11
65) Chlorobenzene	10.14	112	3677	0.50	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	84621	26.70	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	84621	82.46	ug/l	# 7
90) Hexachloroethane	12.82	117	19	2.64	ug/l	# 1
92) 1,2-Dibromo-3-Chloropropan	12.98	75	284	0.41	ug/l	# 1

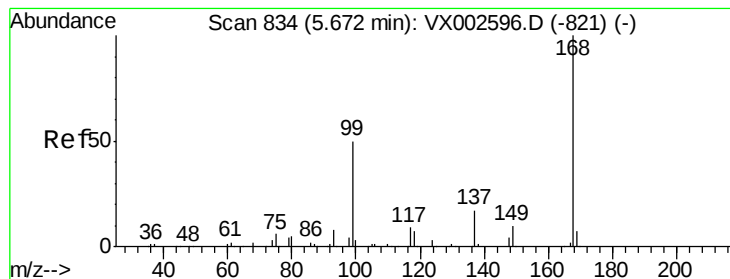
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062018\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

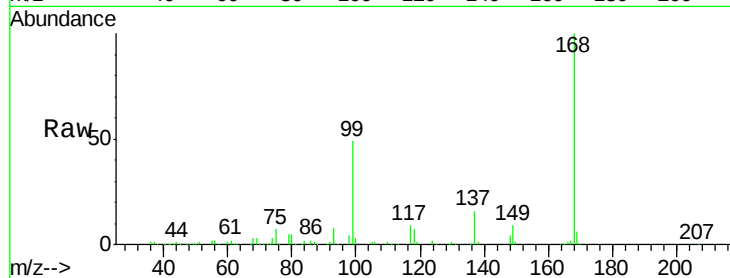
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 223098

Ion Ratio Lower Upper

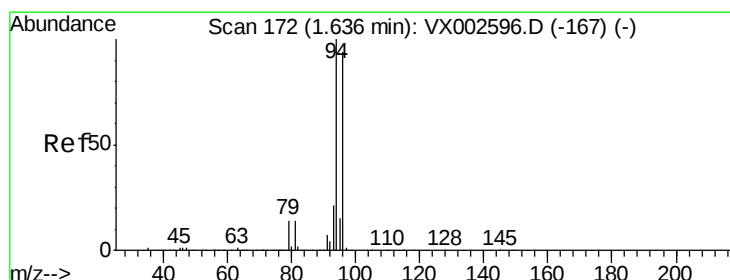
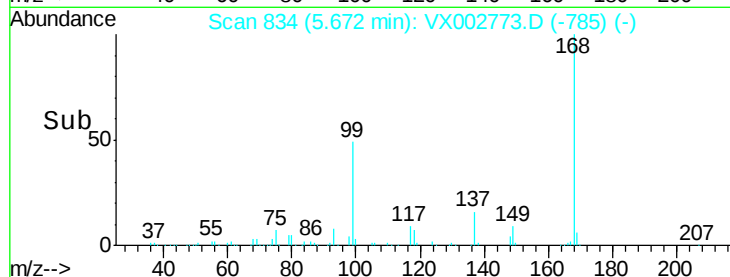
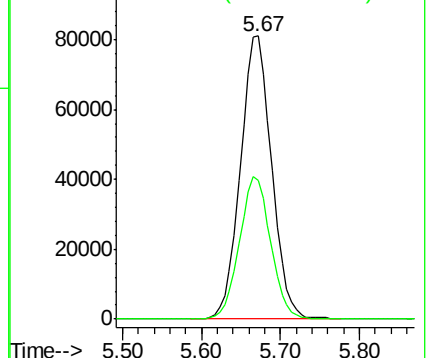
168 100

99 48.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.63 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002773.D

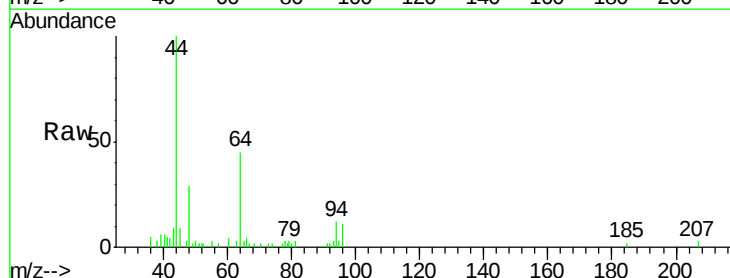
Acq: 21 Jun 2018 06:04

Tgt Ion: 94 Resp: 1108

Ion Ratio Lower Upper

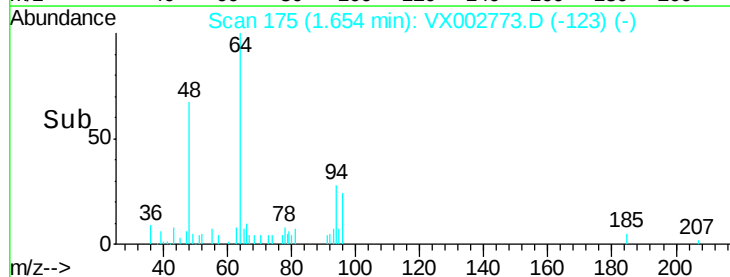
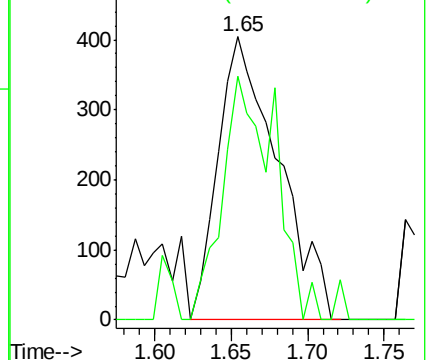
94 100

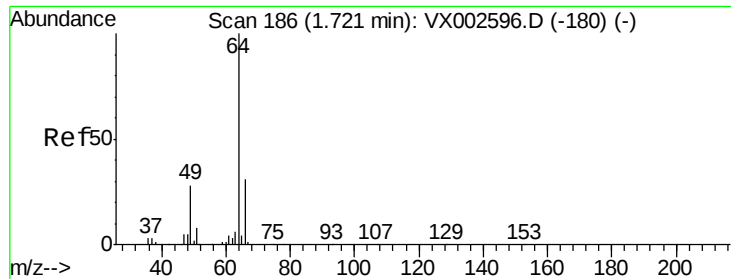
96 86.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.76 ug/l

RT: 1.54 min Scan# 157

Delta R.T. -0.18 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

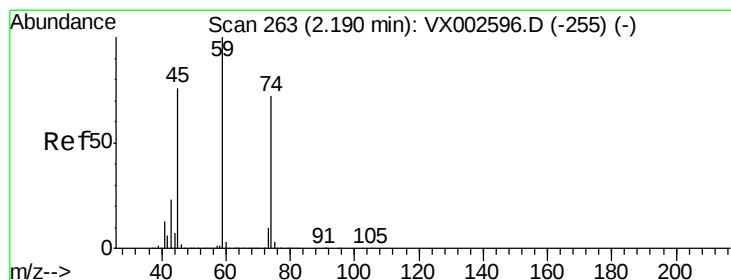
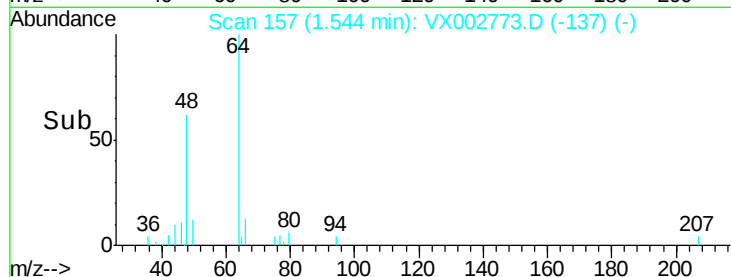
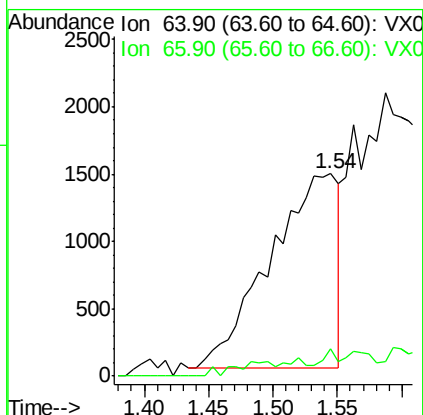
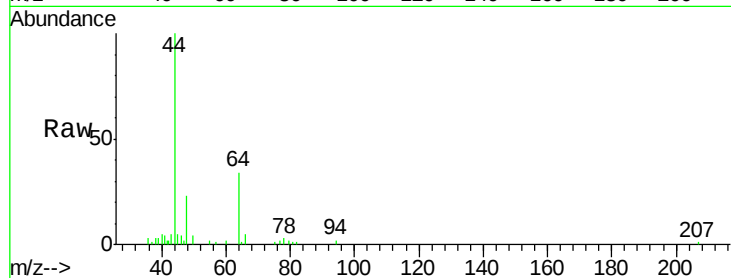
ClientSampleId :

Tot Ion: 64 Resp: 5323

Ion Ratio Lower Upper

64 100

66 14.0 25.5 38.3#



#8

Diethyl Ether

Concen: 0.28 ug/l

RT: 2.18 min Scan# 261

Delta R.T. -0.01 min

Lab File: VX002773.D

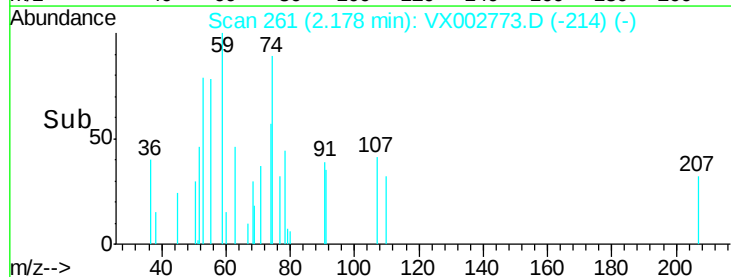
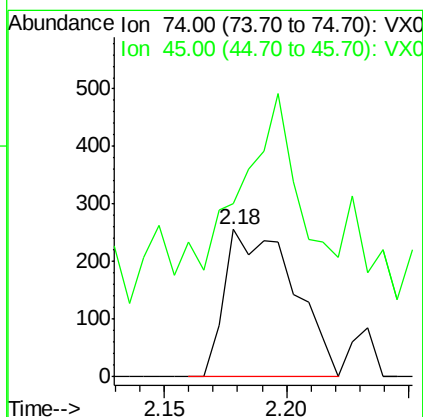
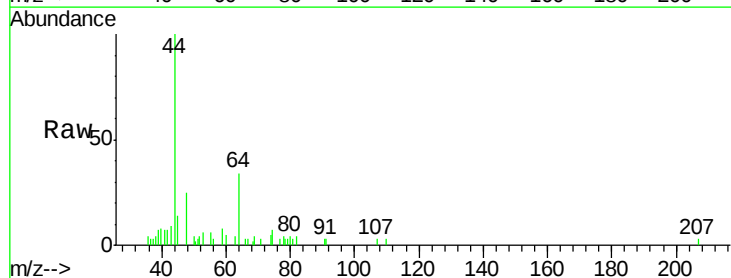
Acq: 21 Jun 2018 06:04

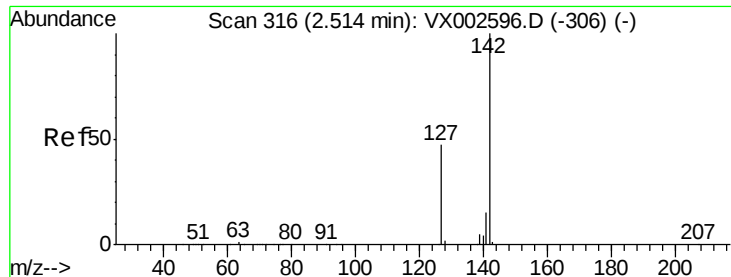
Tgt Ion: 74 Resp: 500

Ion Ratio Lower Upper

74 100

45 92.8 53.1 159.4





#10

Methyl Iodide

Concen: 5.38 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

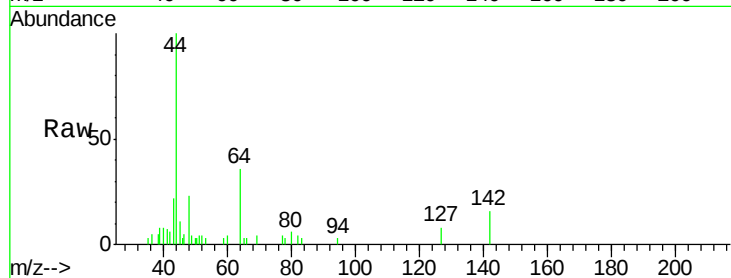
Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 781

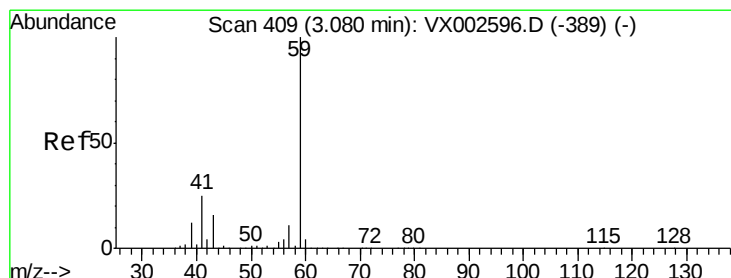
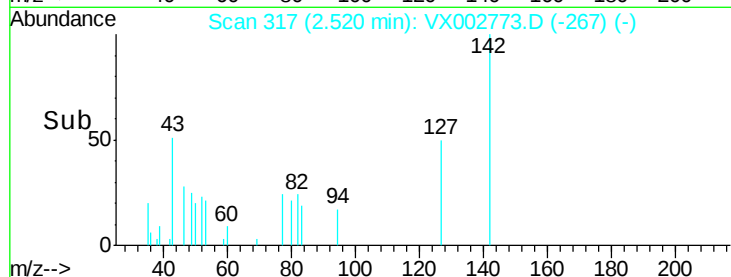
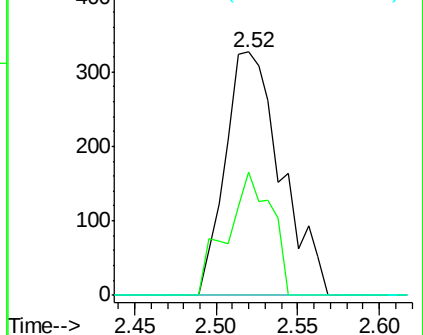
Ion	Ratio	Lower	Upper
142	100		
127	40.3	36.6	55.0
141	0.0	11.3	16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.95 ug/l

RT: 3.03 min Scan# 401

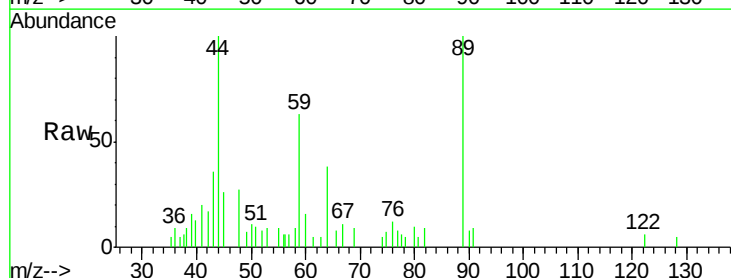
Delta R.T. -0.05 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

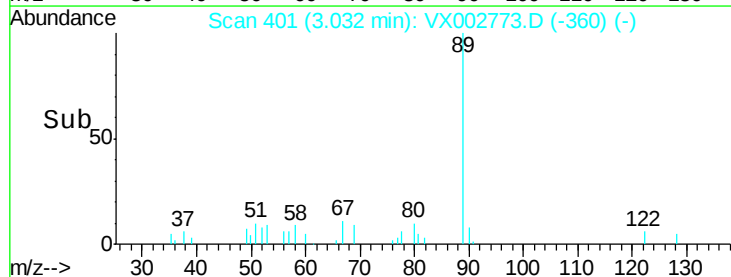
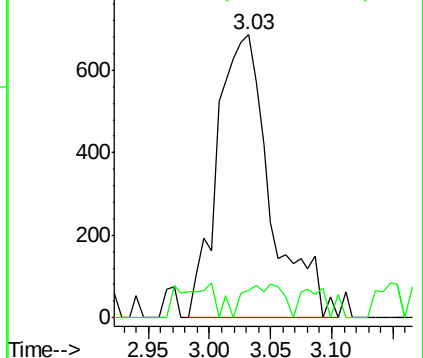
Tgt Ion: 59 Resp: 2066

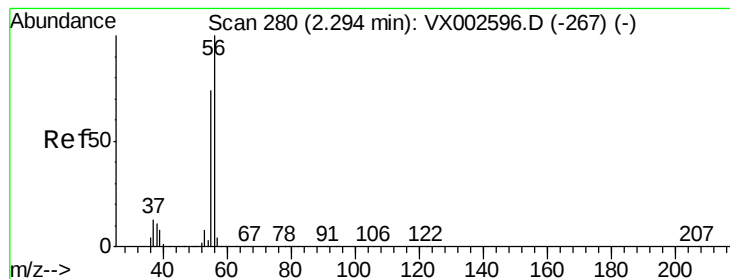
Ion	Ratio	Lower	Upper
59	100		
57	8.3	8.2	12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 7.30 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

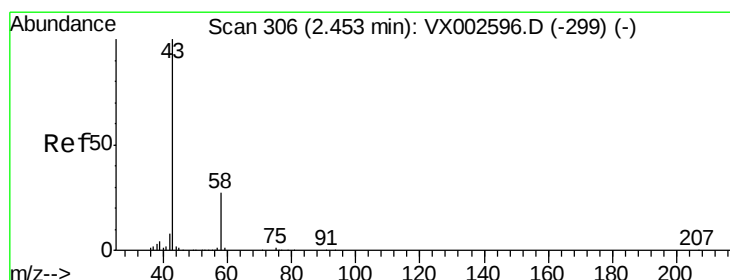
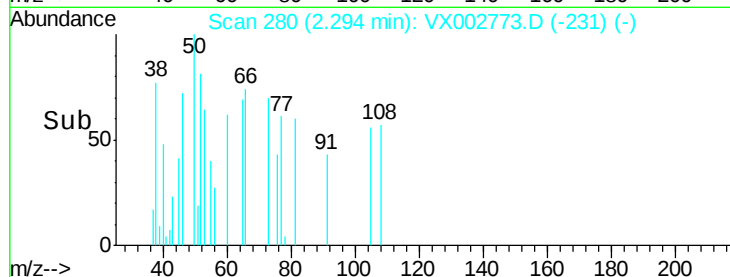
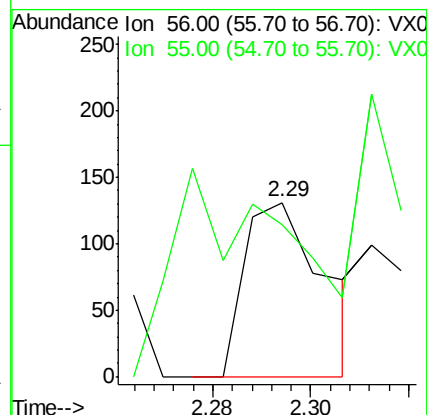
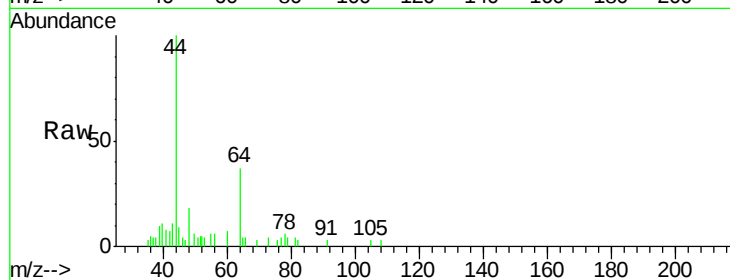
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 147

Ion Ratio Lower Upper

56 100

55 93.2 57.0 85.4#



#16

Acetone

Concen: 7.39 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002773.D

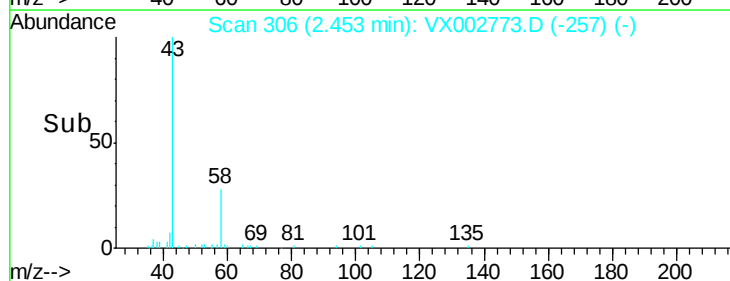
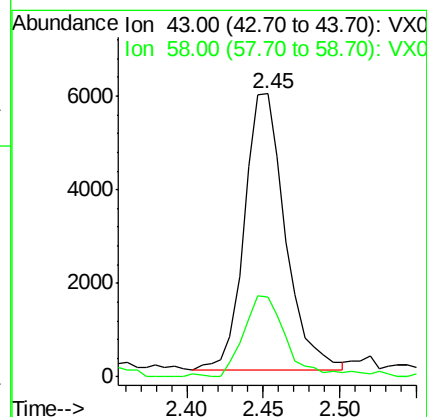
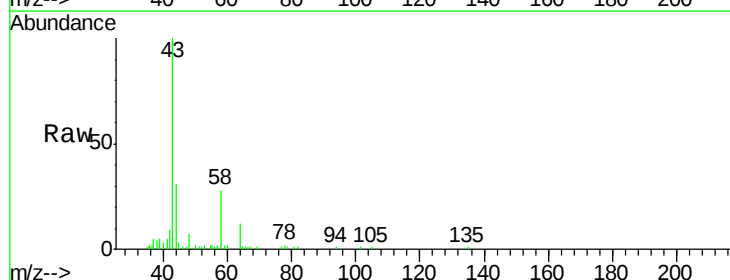
Acq: 21 Jun 2018 06:04

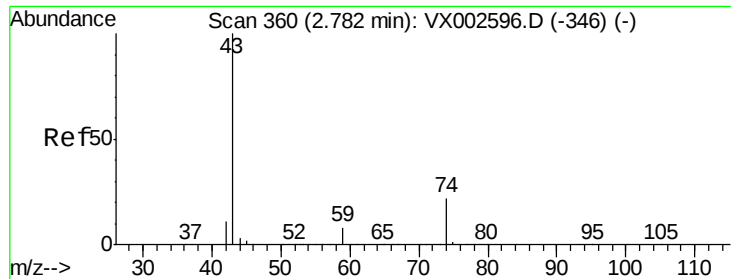
Tgt Ion: 43 Resp: 11053

Ion Ratio Lower Upper

43 100

58 27.8 22.1 33.1

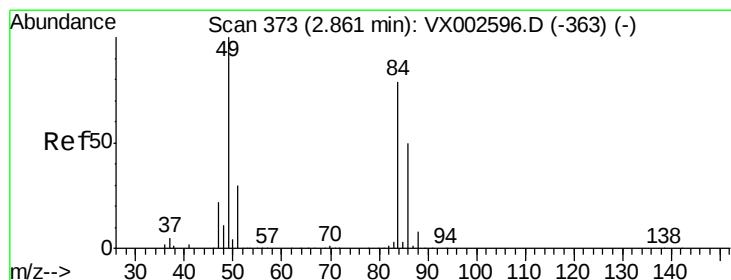
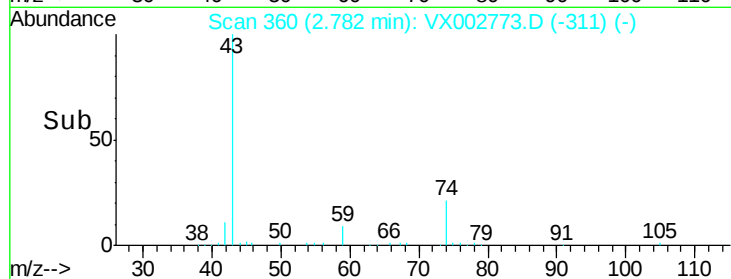
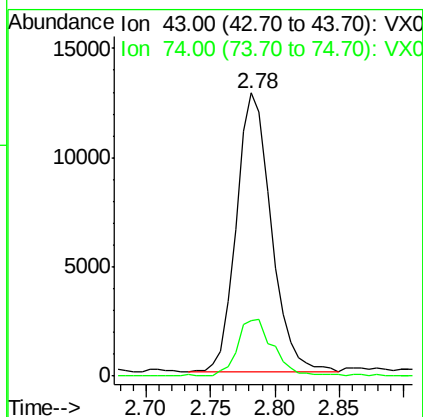
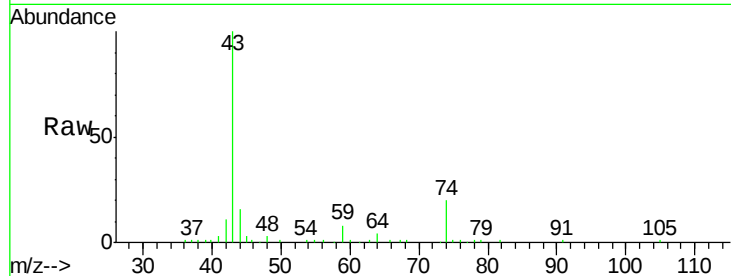




#18
Methyl Acetate
Concen: 6.03 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

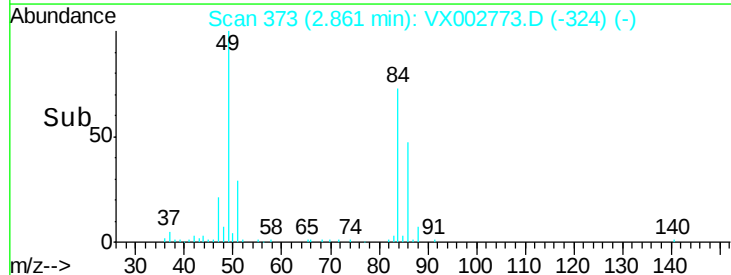
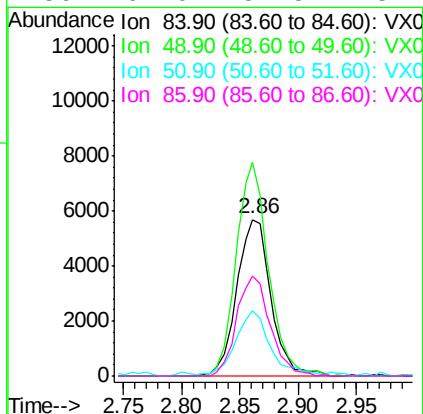
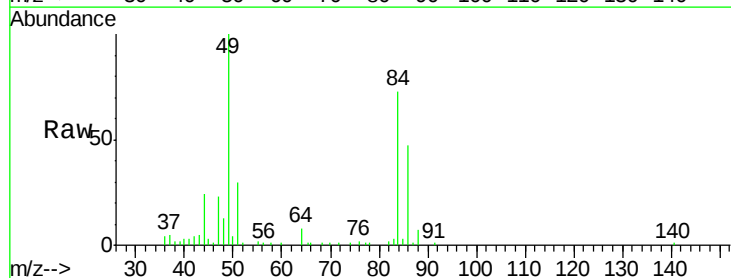
Instrument :
MSVOA_X
ClientSampled :

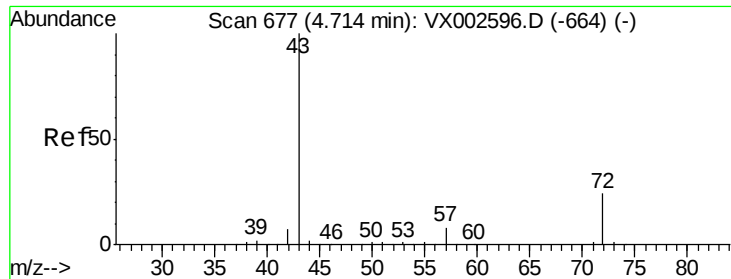
Tot Ion: 43 Resp: 24023
Ion Ratio Lower Upper
43 100
74 21.1 16.7 25.1



#20
Methylene Chloride
Concen: 3.80 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

Tgt Ion: 84 Resp: 11649
Ion Ratio Lower Upper
84 100
49 136.6 107.8 161.6
51 40.1 32.8 49.2
86 64.0 52.5 78.7





#25

2-Butanone

Concen: 0.93 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

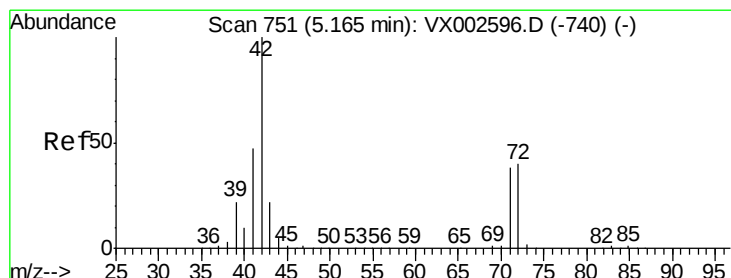
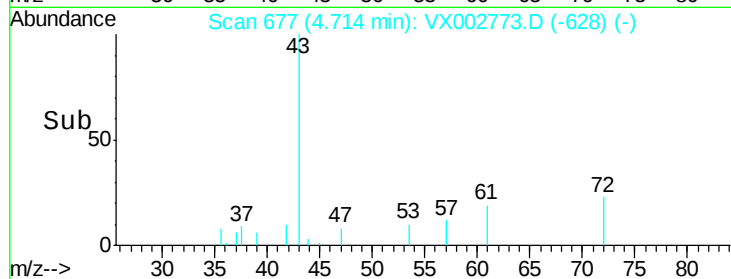
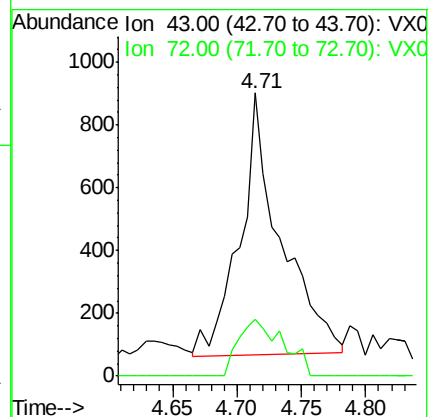
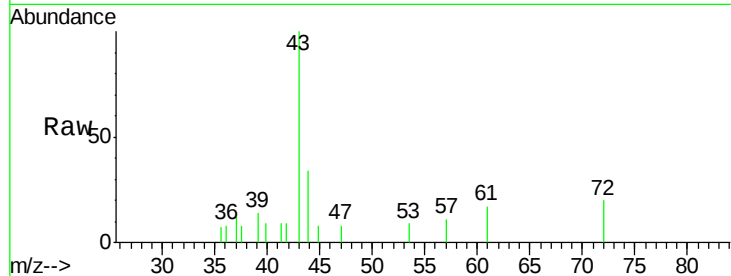
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1834

Ion Ratio Lower Upper

43 100

72 21.9 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.57 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

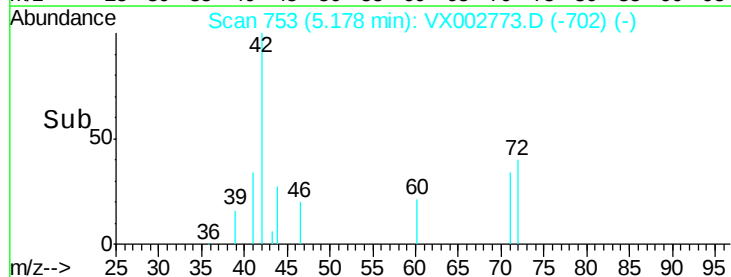
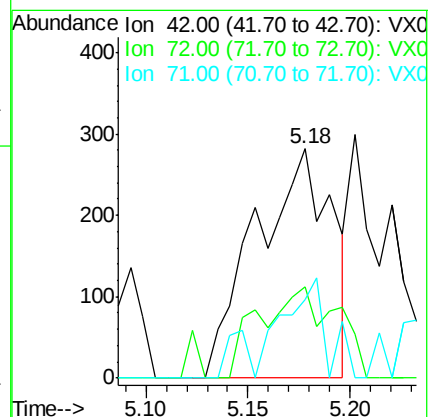
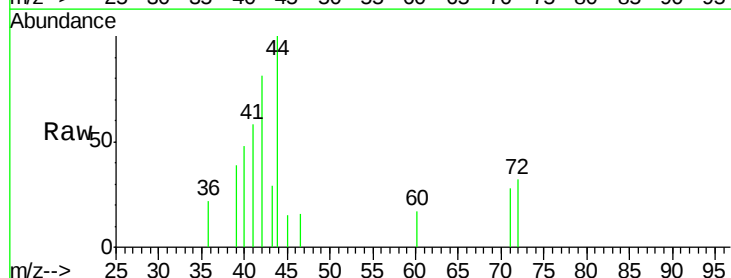
Tgt Ion: 42 Resp: 730

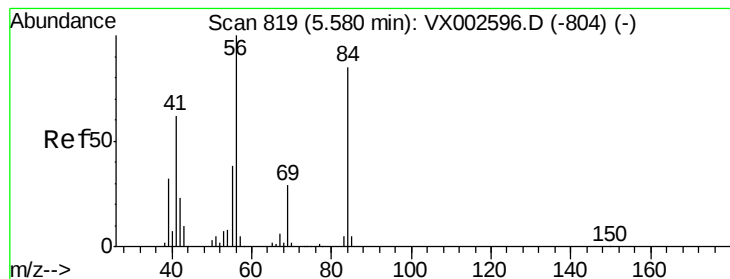
Ion Ratio Lower Upper

42 100

72 29.0 32.0 48.0#

71 25.1 30.1 45.1#





#31

Cyclohexane

Concen: 1.14 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

ClientSampleId :

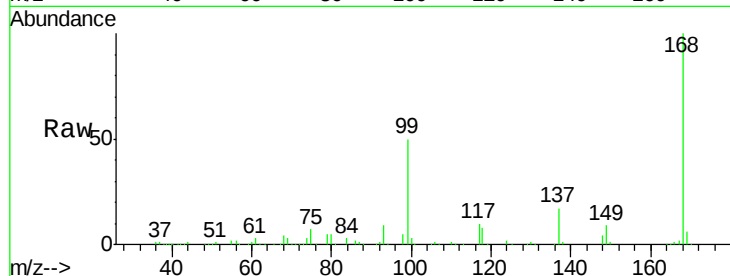
Tot Ion: 56 Resp: 4576

Ion Ratio Lower Upper

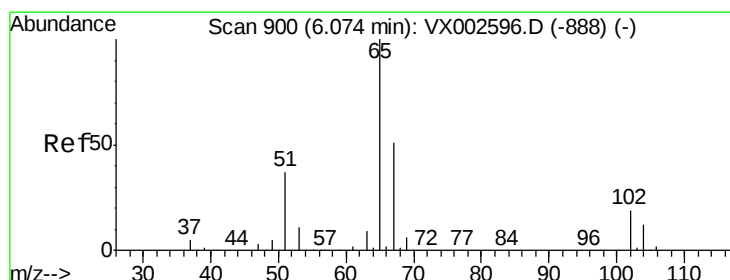
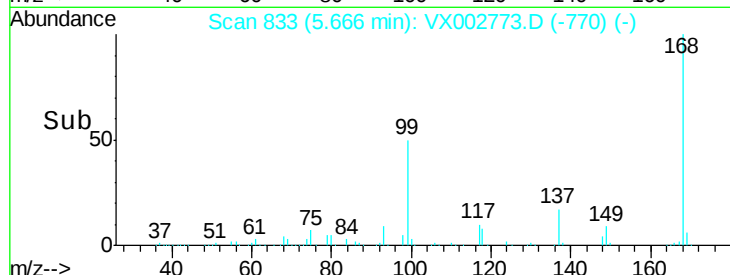
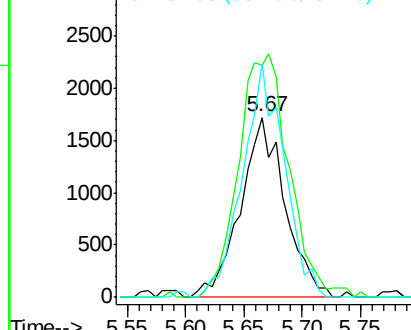
56 100

69 129.4 23.7 35.5#

84 129.7 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: 45.72 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002773.D

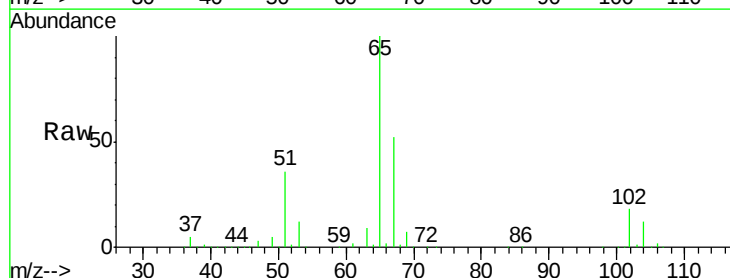
Acq: 21 Jun 2018 06:04

Tgt Ion: 65 Resp: 155002

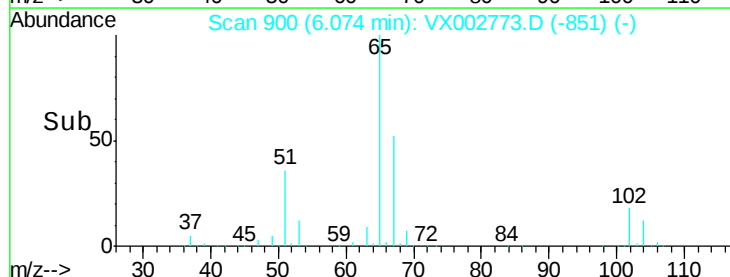
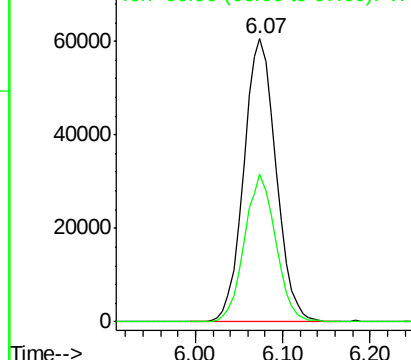
Ion Ratio Lower Upper

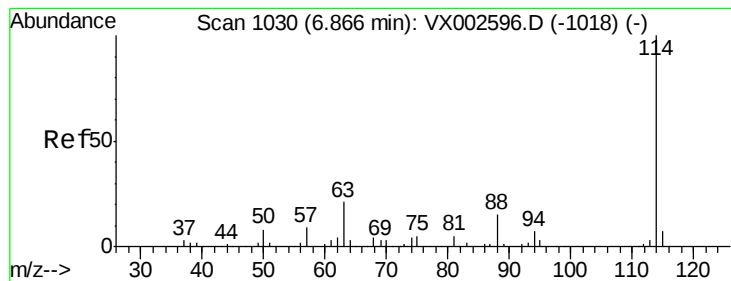
65 100

67 50.7 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: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

ClientSampleId :

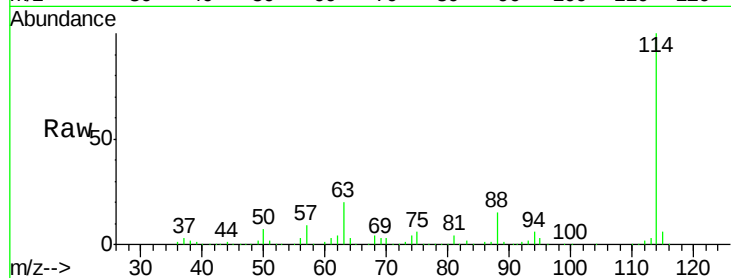
Tot Ion:114 Resp: 321370

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

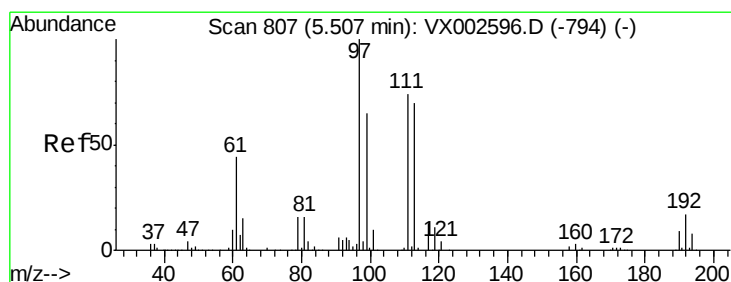
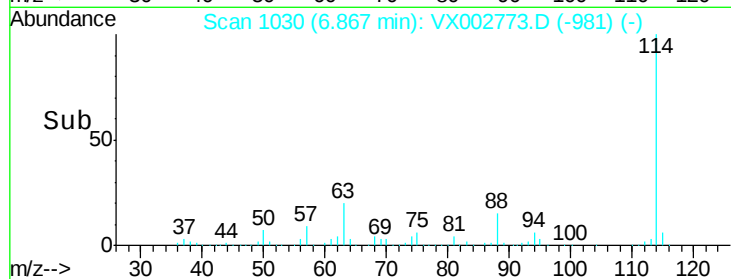
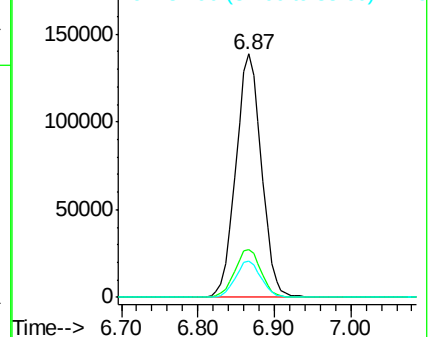
88 14.7 0.0 30.0



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: 48.19 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

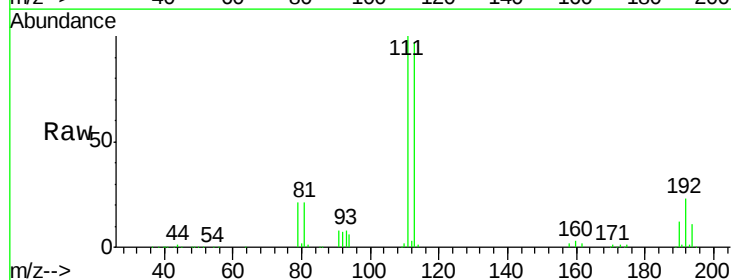
Tgt Ion:113 Resp: 123597

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

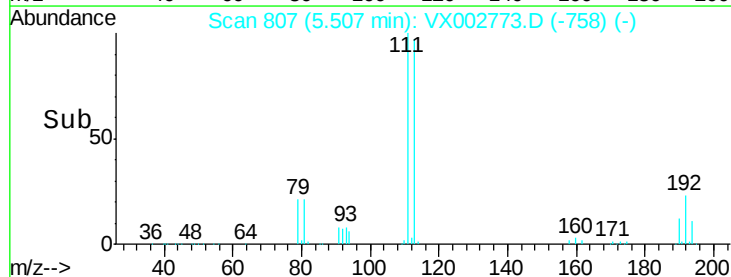
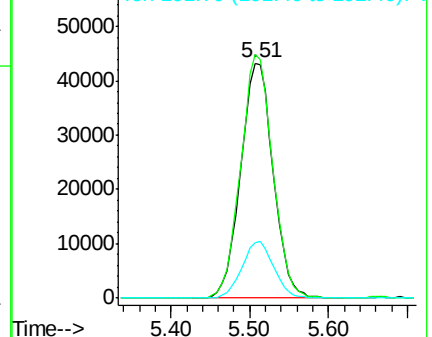
192 23.7 19.1 28.7

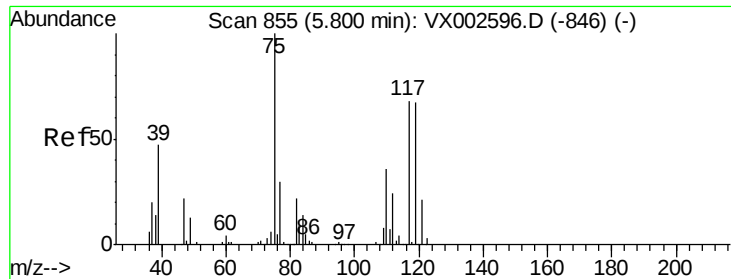


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

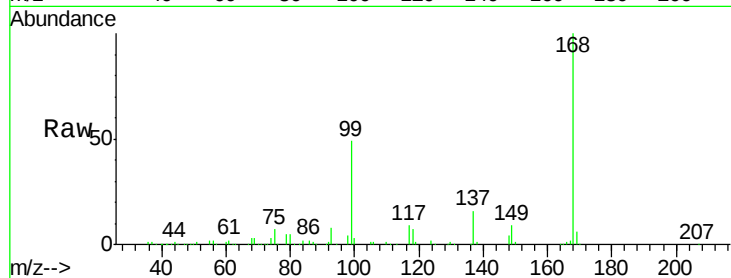




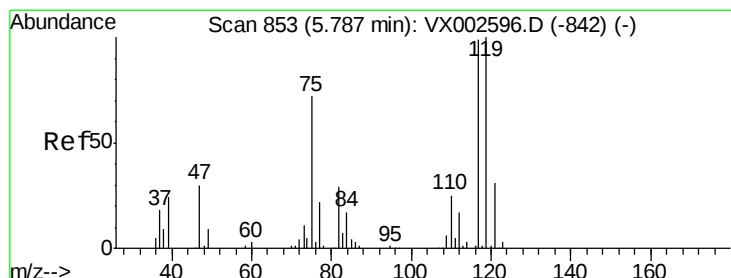
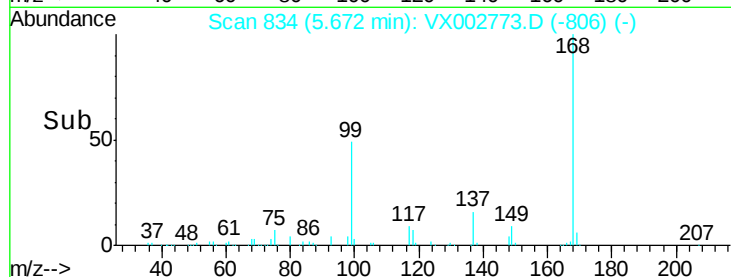
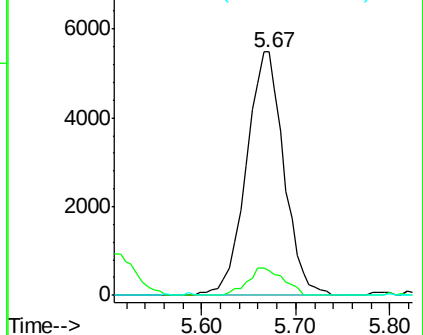
#36
 1,1-Dichloropropene
 Concen: 4.49 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002773.D
 Acq: 21 Jun 2018 06:04

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 15323
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.1 54.4#
 77 0.0 24.3 36.5#

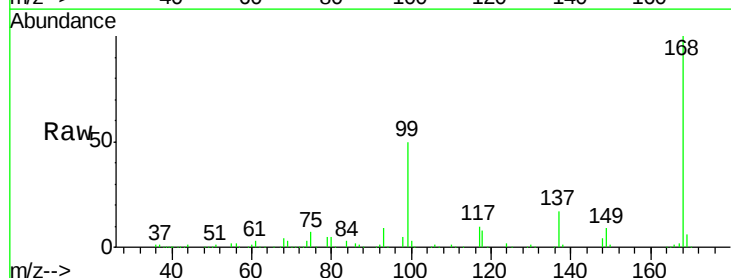


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

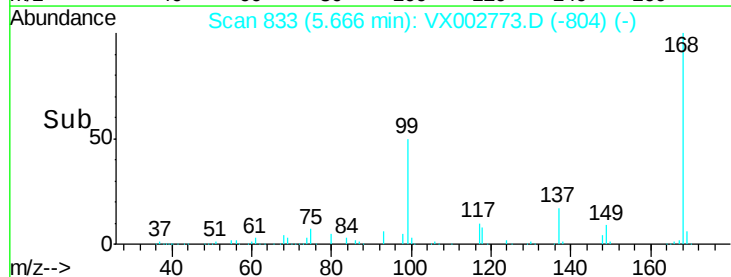
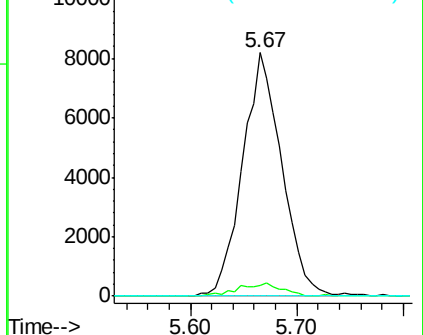


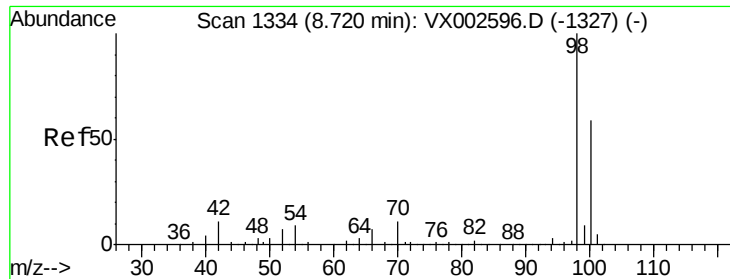
#38
 Carbon Tetrachloride
 Concen: 6.22 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002773.D
 Acq: 21 Jun 2018 06:04

Tgt Ion:117 Resp: 21155
 Ion Ratio Lower Upper
 117 100
 119 4.3 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

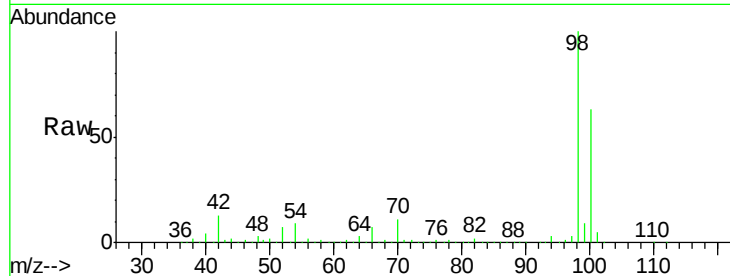




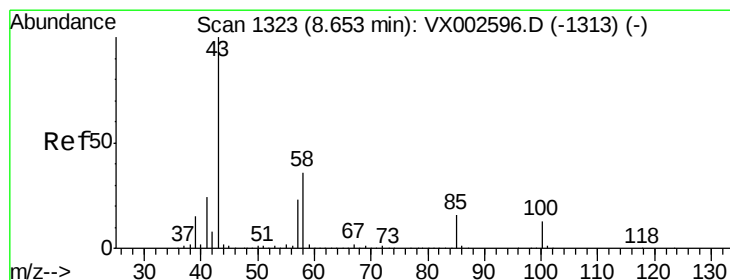
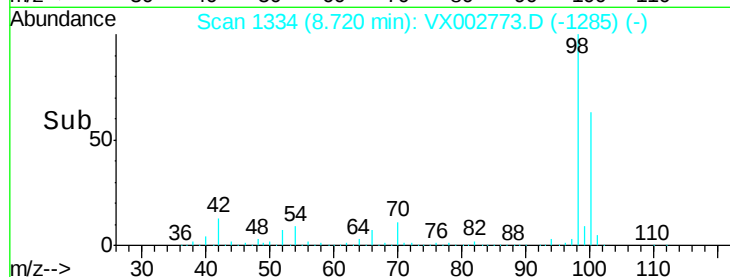
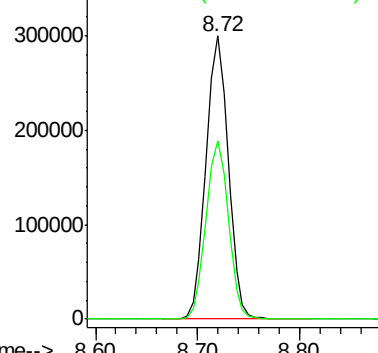
#50
Toluene-d8
Concen: 46.59 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 453686
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3

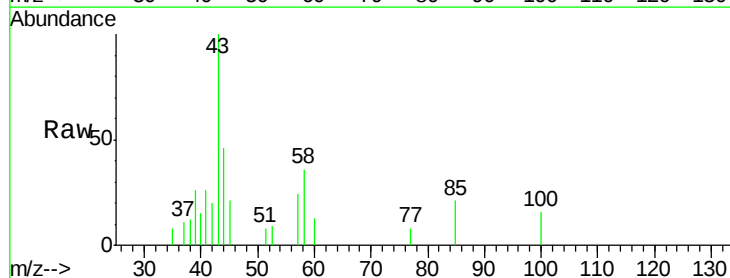


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX

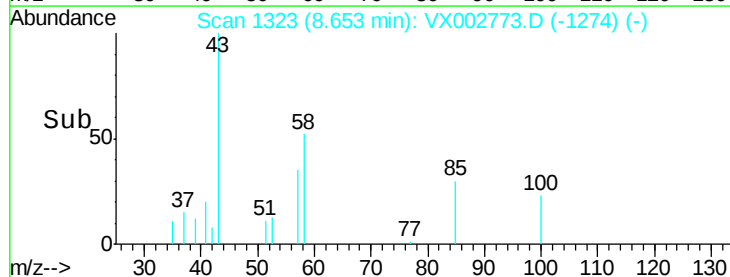
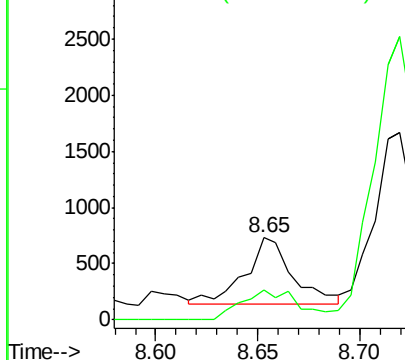


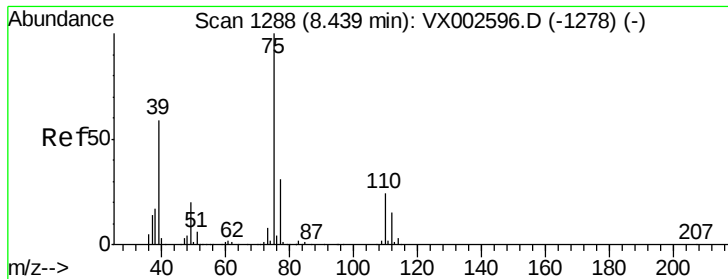
#51
4-Methyl-2-Pentanone
Concen: 0.24 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

Tgt Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
58 53.2 28.6 42.8#



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

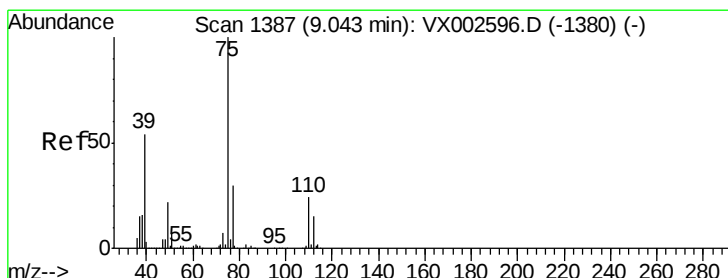
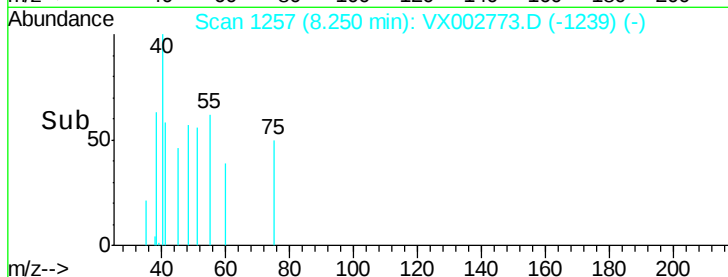
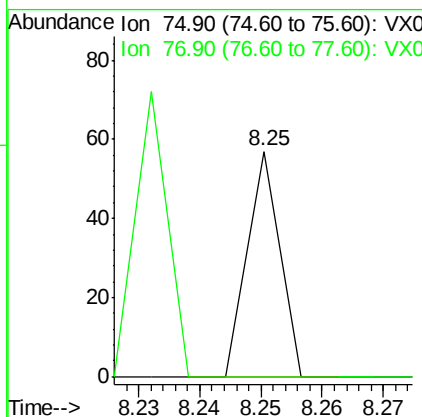
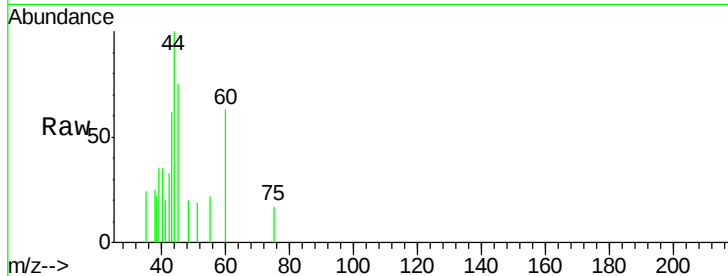




#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.25 min Scan# 1257
Delta R.T. -0.19 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

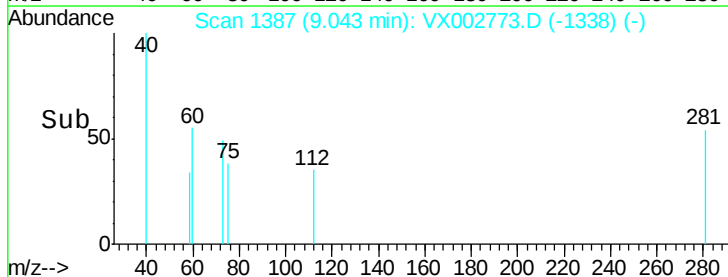
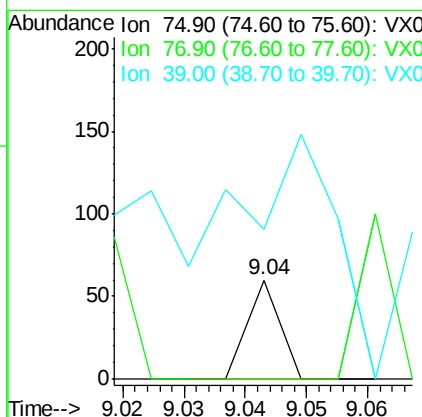
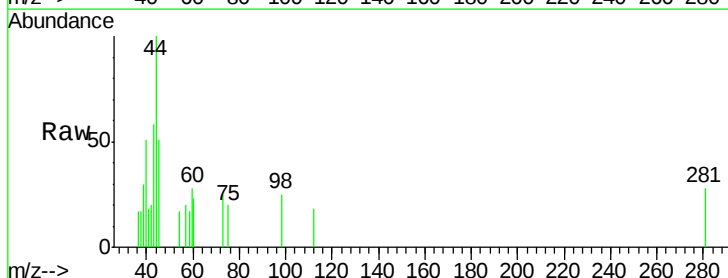
Instrument :
MSVOA_X
ClientSampled :

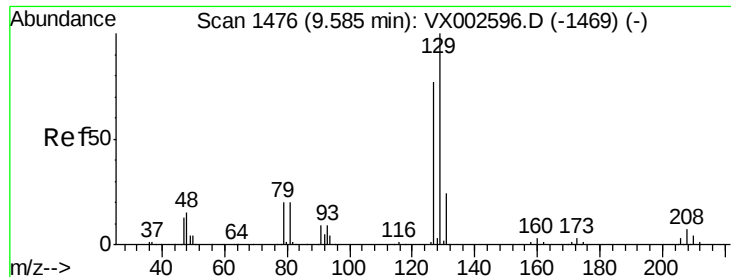
Tot Ion: 75 Resp: 21
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



#54
cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 38.3 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.67 min Scan# 1490

Delta R.T. 0.09 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

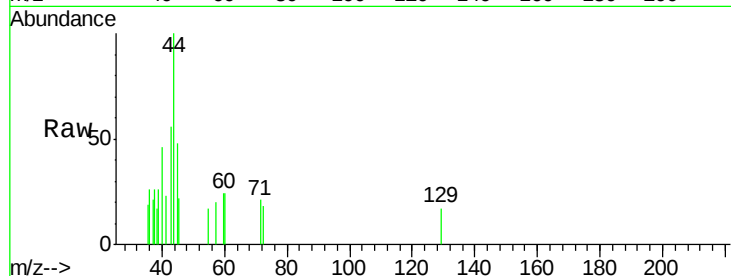
ClientSampleId :

Tot Ion:129 Resp: 21

Ion Ratio Lower Upper

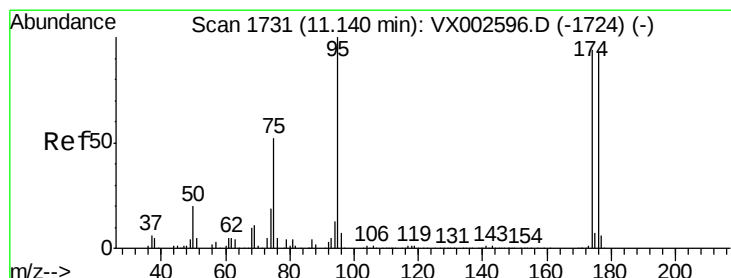
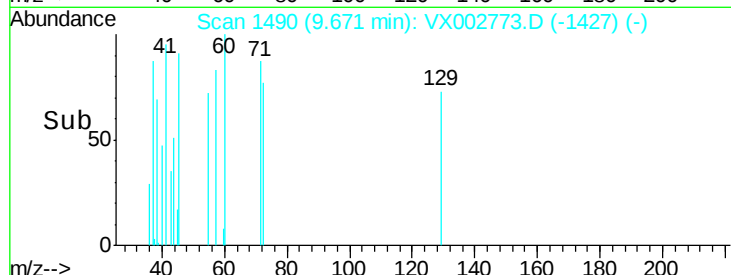
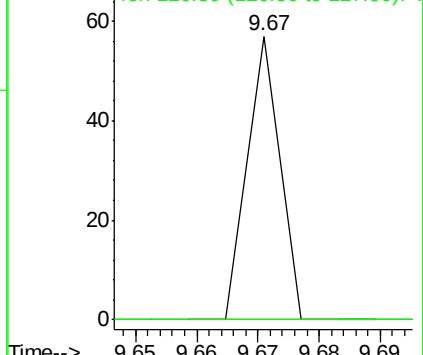
129 100

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: 42.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

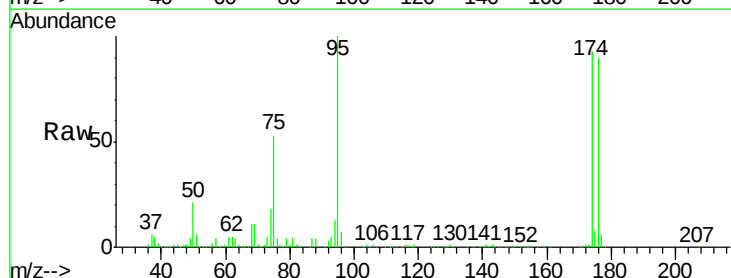
Tgt Ion: 95 Resp: 158311

Ion Ratio Lower Upper

95 100

174 96.9 0.0 187.4

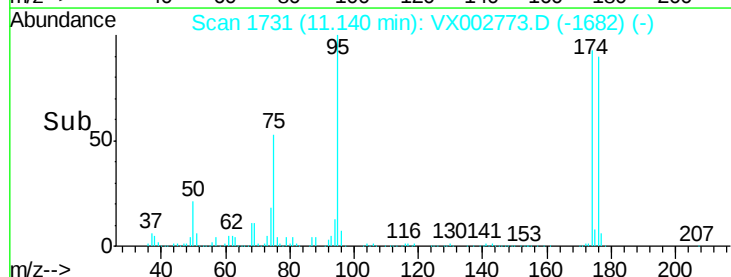
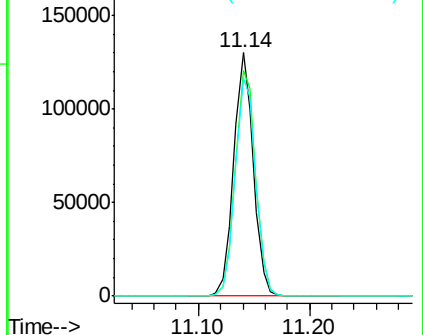
176 94.1 0.0 181.0

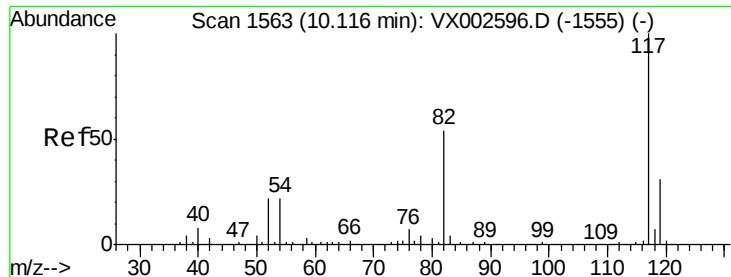


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

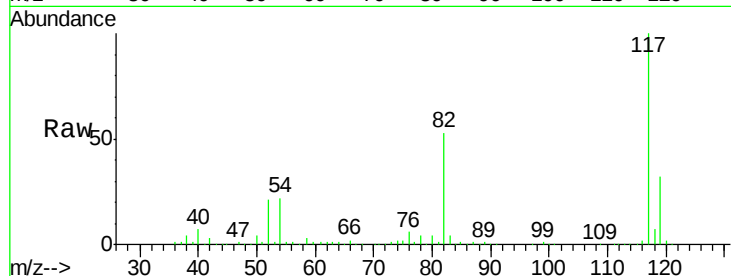




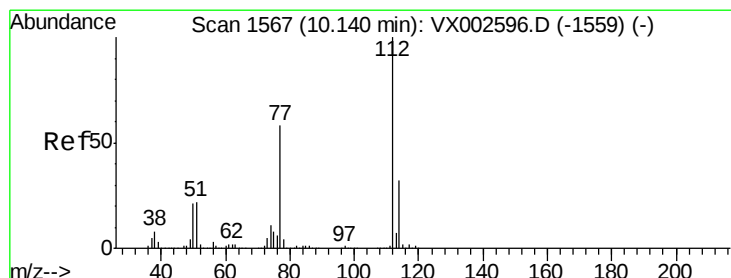
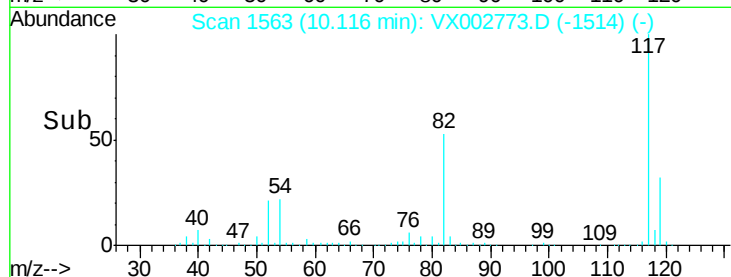
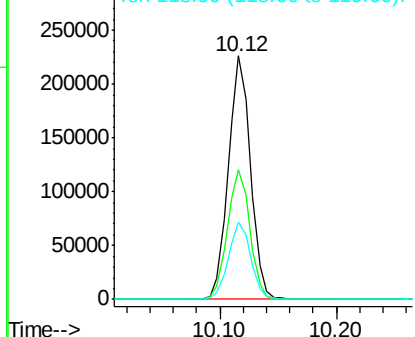
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 298611
Ion Ratio Lower Upper
117 100
82 53.2 45.0 67.4
119 31.7 25.8 38.6

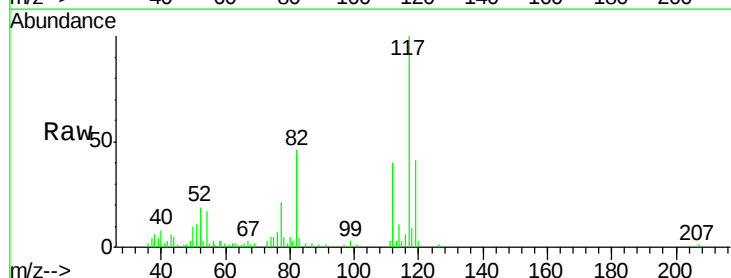


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

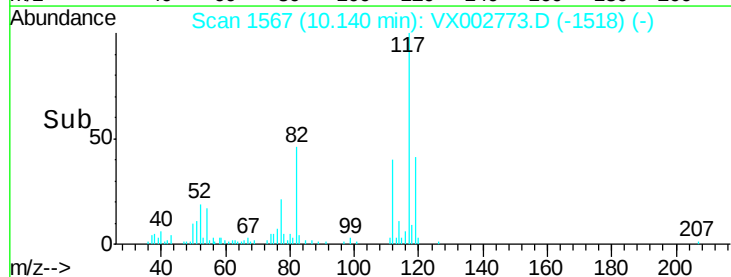
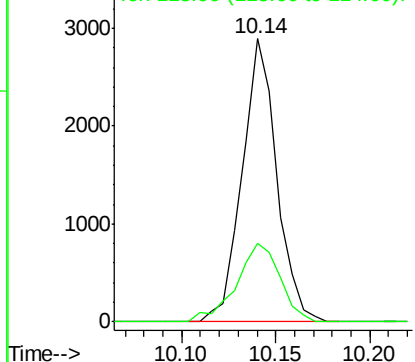


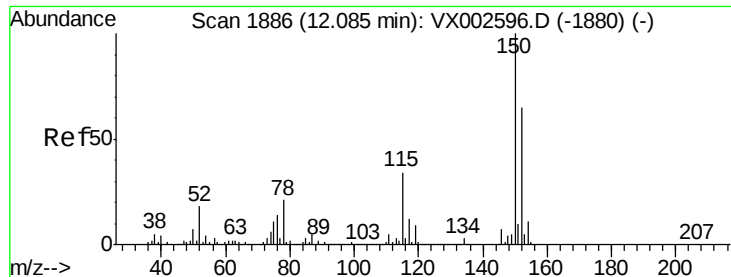
#65
Chlorobenzene
Concen: 0.50 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002773.D
Acq: 21 Jun 2018 06:04

Tgt Ion:112 Resp: 3677
Ion Ratio Lower Upper
112 100
114 28.0 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: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

ClientSampleId :

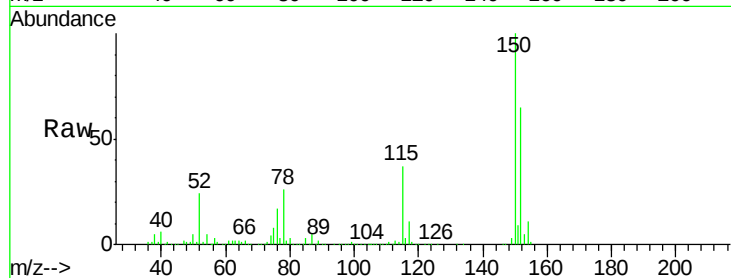
Tot Ion:152 Resp: 167982

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

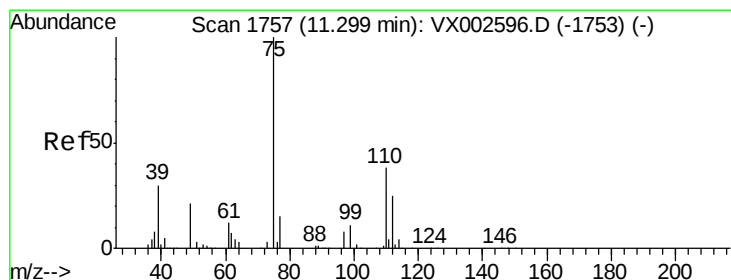
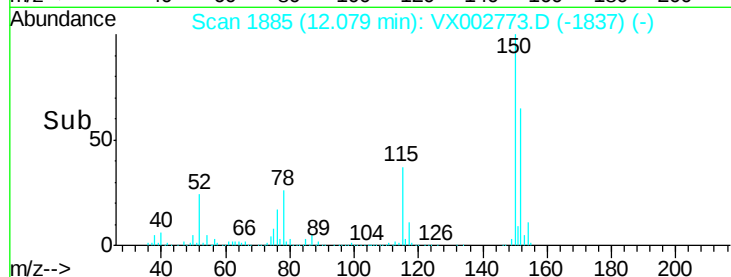
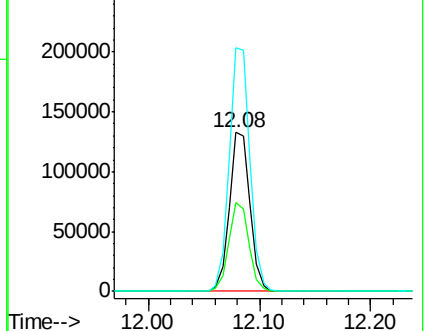
150 154.7 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002773.D

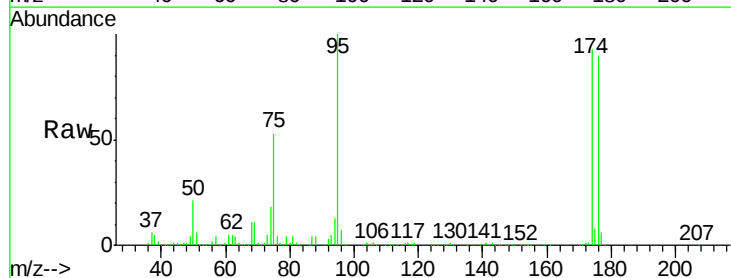
Acq: 21 Jun 2018 06:04

Tgt Ion: 75 Resp: 84621

Ion Ratio Lower Upper

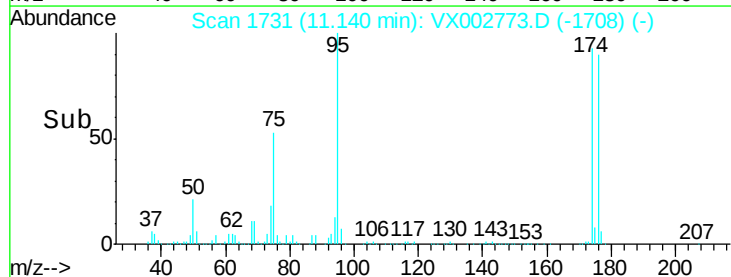
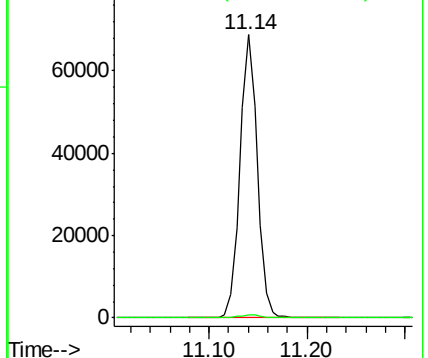
75 100

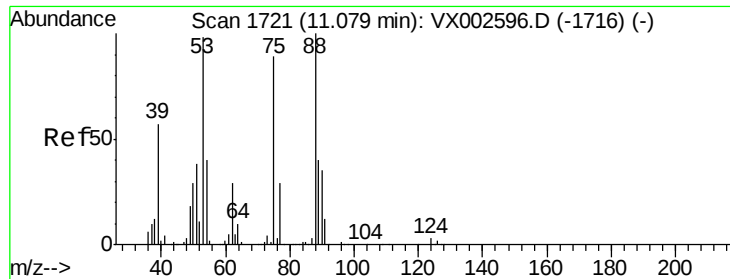
77 1.2 22.8 68.3#



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: 82.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

ClientSampled :

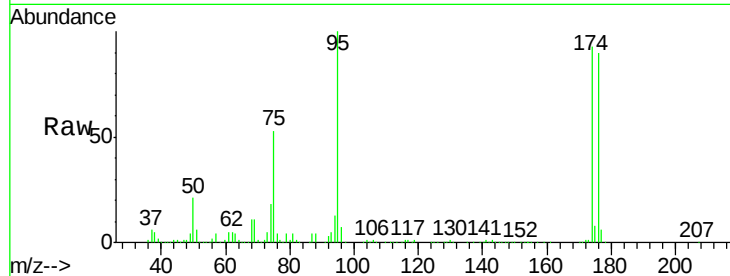
Tot Ion: 75 Resp: 84621

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

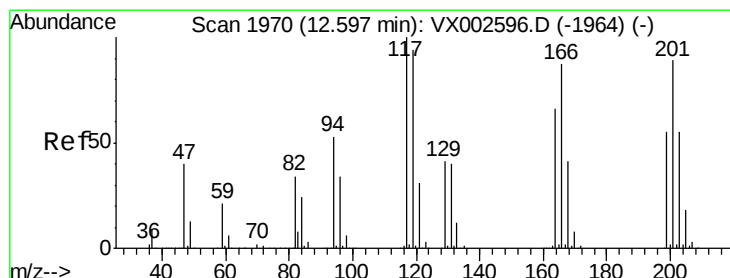
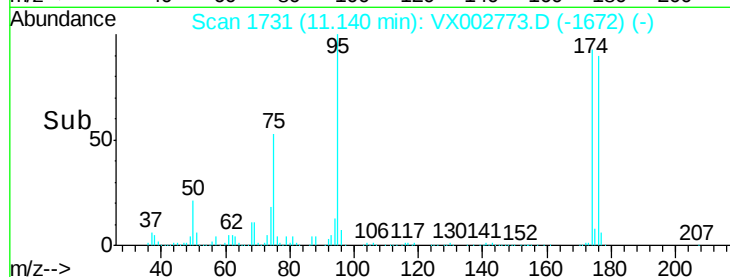
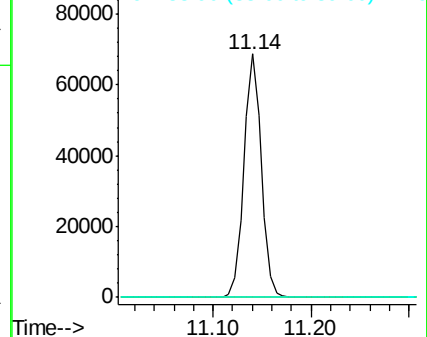
89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.82 min Scan# 2006

Delta R.T. 0.22 min

Lab File: VX002773.D

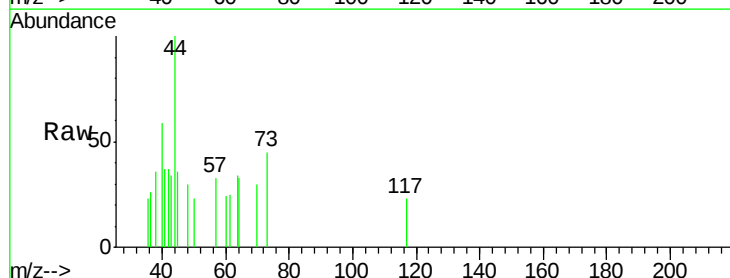
Acq: 21 Jun 2018 06:04

Tgt Ion: 117 Resp: 19

Ion Ratio Lower Upper

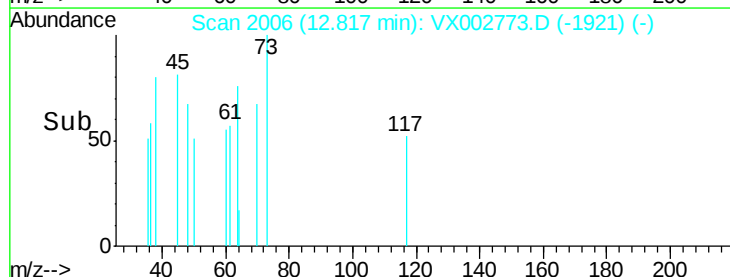
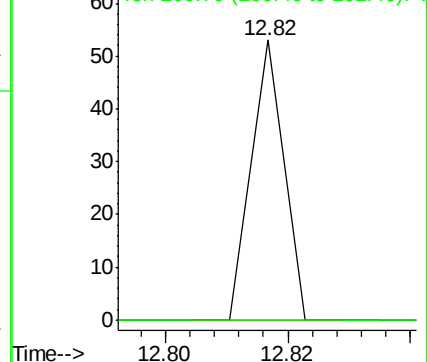
117 100

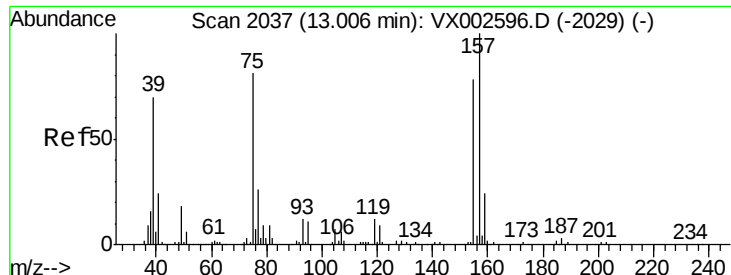
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.41 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002773.D

Acq: 21 Jun 2018 06:04

Instrument :

MSVOA_X

ClientSampleId :

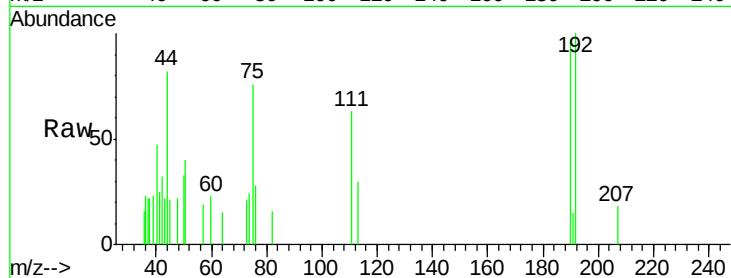
Tot Ion: 75 Resp: 284

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

