

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006774.D
 Acq On : 22 Dec 2018 16:09
 Operator : JC/MD
 Sample : J6533-16 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 24 04:26:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	637019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	983803	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	894816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	430345	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	334986	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	5.51	113	296276	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	8.71	98	1150906	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
62) 4-Bromofluorobenzene	11.13	95	410957	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	

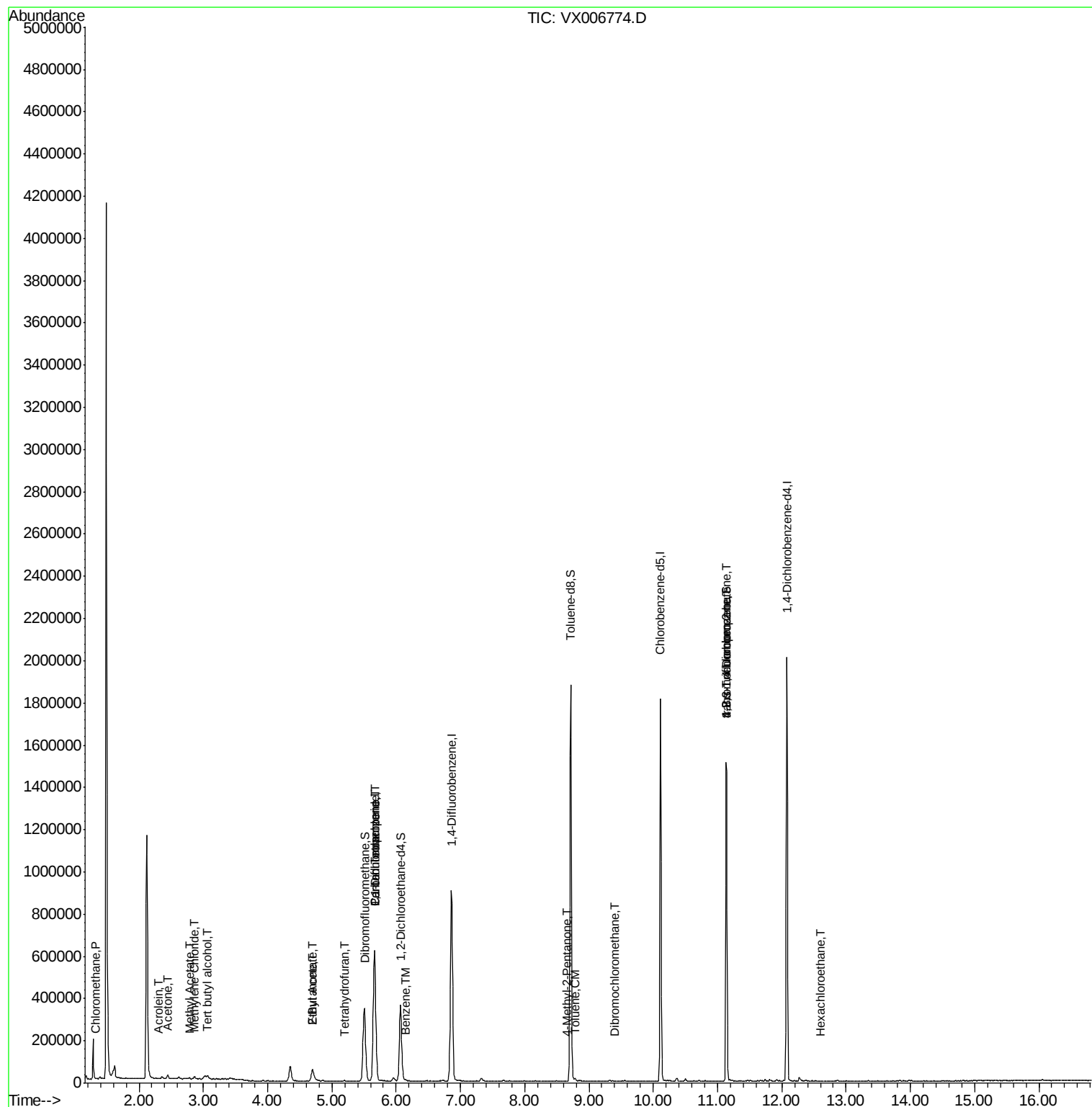
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	1577	0.251	ug/l #	84
5) Bromomethane	1.65	94	1325	Below Cal	#	28
11) Tert butyl alcohol	3.06	59	22567	14.729	ug/l	97
13) Acrolein	2.29	56	527	0.510	ug/l #	44
16) Acetone	2.45	43	18211	5.774	ug/l	92
18) Methyl Acetate	2.79	43	5174	0.558	ug/l #	79
20) Methylene Chloride	2.86	84	6176	0.947	ug/l #	95
25) 2-Butanone	4.70	43	100062	22.553	ug/l	96
28) Bromochloromethane	5.03	49	300	Below Cal	#	23
29) Tetrahydrofuran	5.19	42	668	0.229	ug/l #	23
36) 1,1-Dichloropropene	5.67	75	41264	5.064	ug/l #	50
37) Ethyl Acetate	4.70	43	100062	11.799	ug/l #	67
38) Carbon Tetrachloride	5.67	117	58704	7.413	ug/l #	14
40) Benzene	6.14	78	6250	0.252	ug/l	91
49) 1,4-Dioxane	7.76	88	312	Below Cal	#	3
51) 4-Methyl-2-Pentanone	8.65	43	1665	0.203	ug/l	99
52) Toluene	8.79	92	3830	0.239	ug/l	83
60) Dibromochloromethane	9.41	129	74	2.334	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	193371	24.179	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	193371	71.586	ug/l #	10
90) Hexachloroethane	12.60	117	162	3.330	ug/l	56

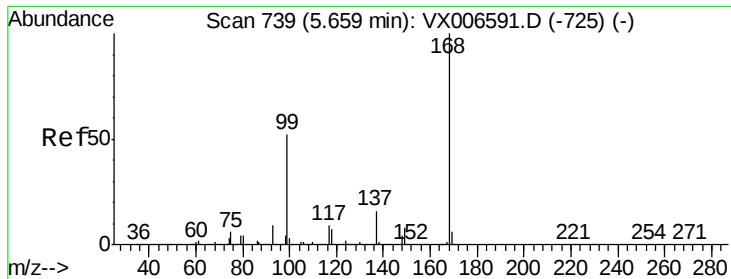
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

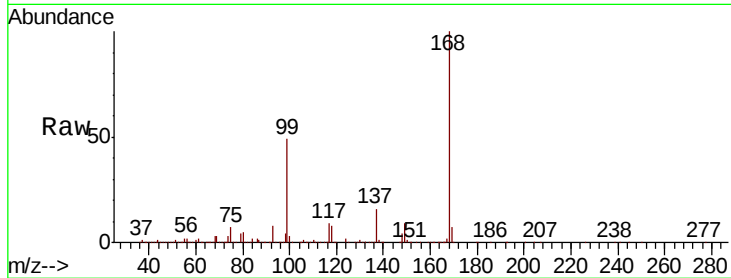
ClientSampleId :

Tot Ion:168 Resp: 637019

Ion Ratio Lower Upper

168 100

99 49.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

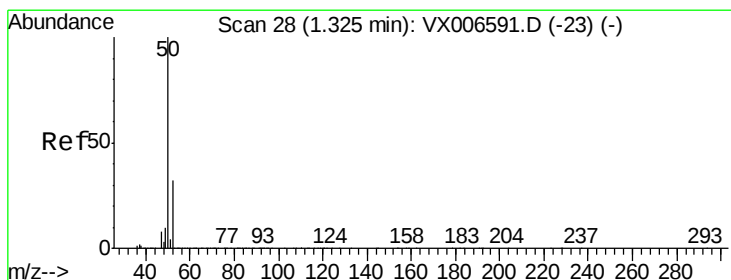
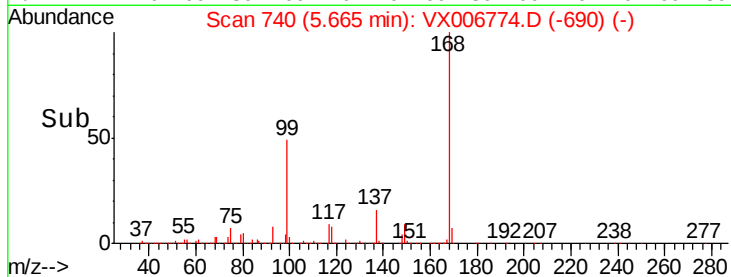
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.251 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX006774.D

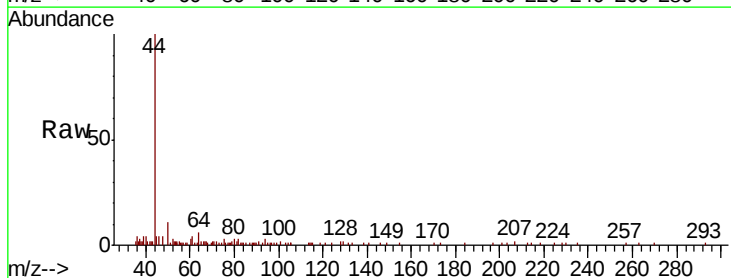
Acq: 22 Dec 2018 16:09

Tgt Ion: 50 Resp: 1577

Ion Ratio Lower Upper

50 100

52 22.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

1000

800

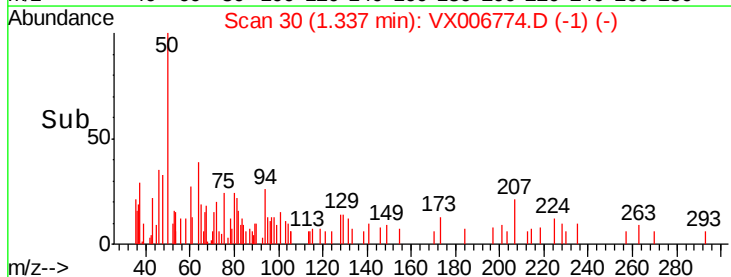
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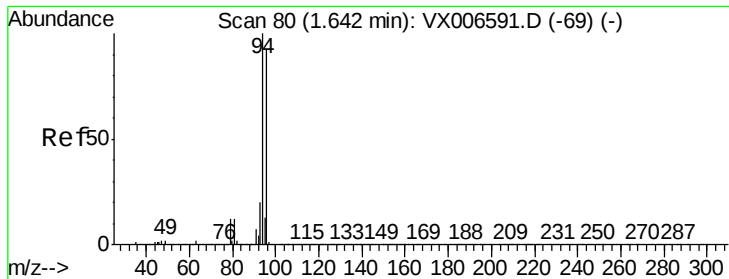
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

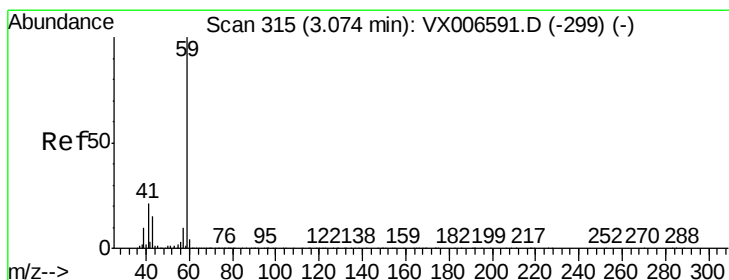
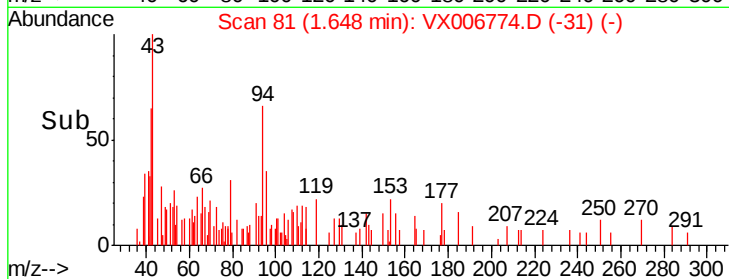
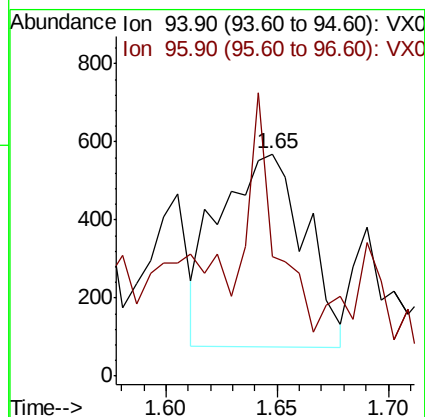
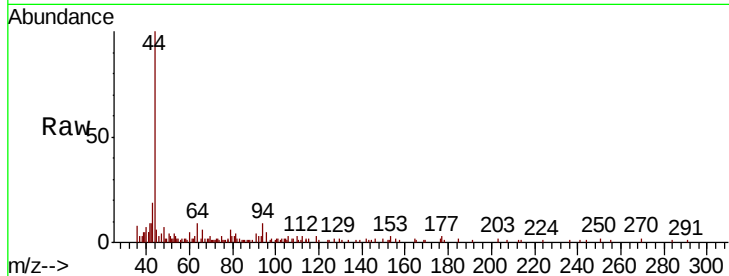
ClientSampled :

Tot Ion: 94 Resp: 1325

Ion Ratio Lower Upper

94 100

96 23.2 73.4 110.2#



#11

Tert butyl alcohol

Concen: 14.729 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006774.D

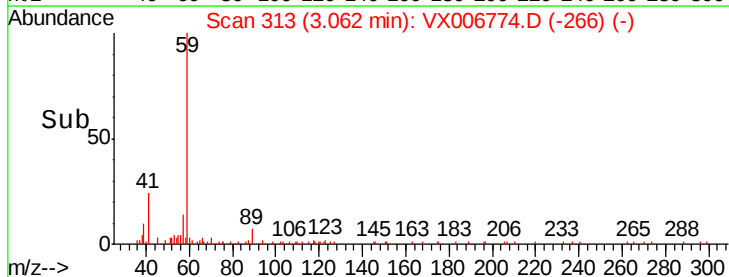
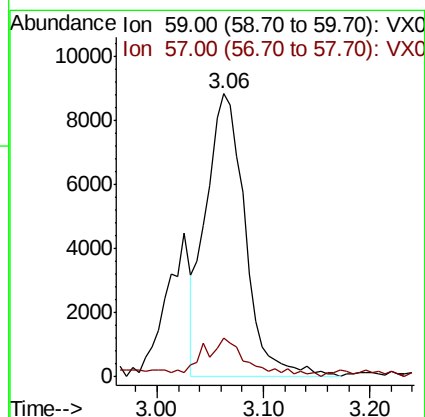
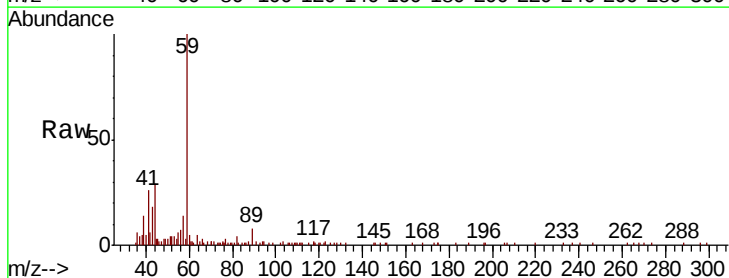
Acq: 22 Dec 2018 16:09

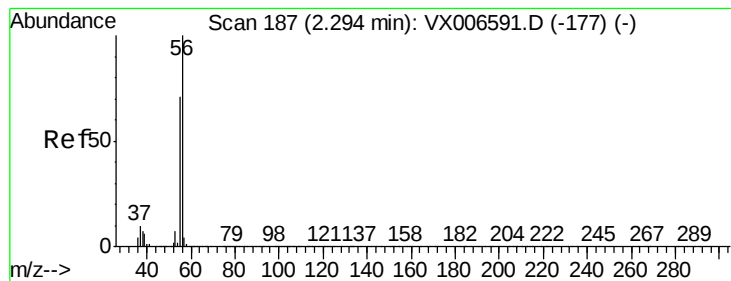
Tgt Ion: 59 Resp: 22567

Ion Ratio Lower Upper

59 100

57 11.7 8.5 12.7





#13

Acrolein

Concen: 0.510 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

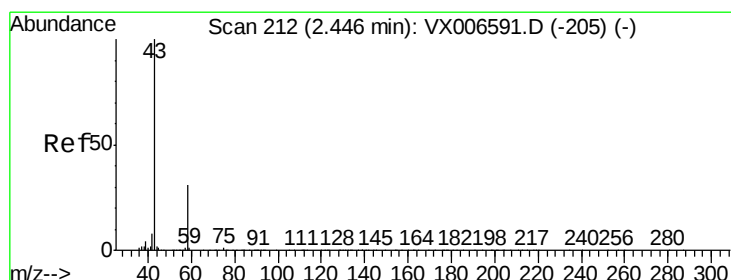
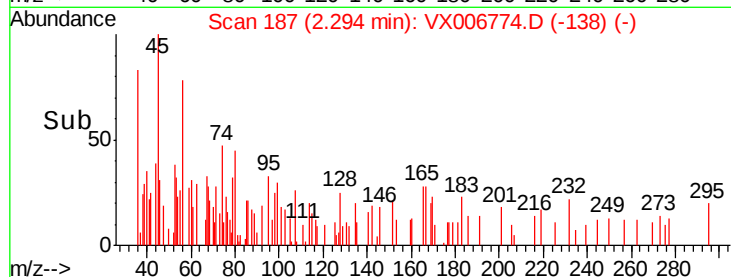
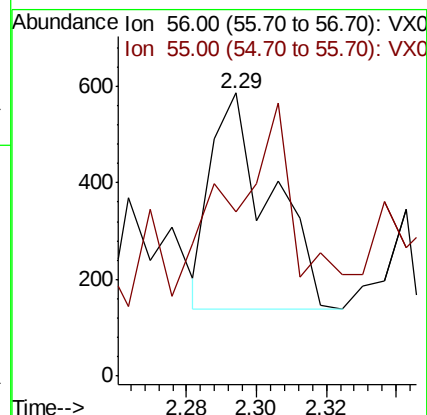
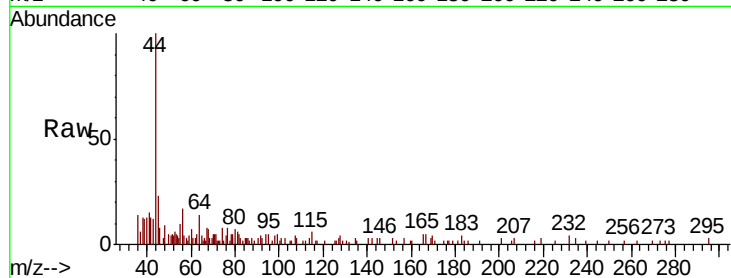
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 527

Ion Ratio Lower Upper

56 100

55 119.7 58.2 87.4#



#16

Acetone

Concen: 5.774 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006774.D

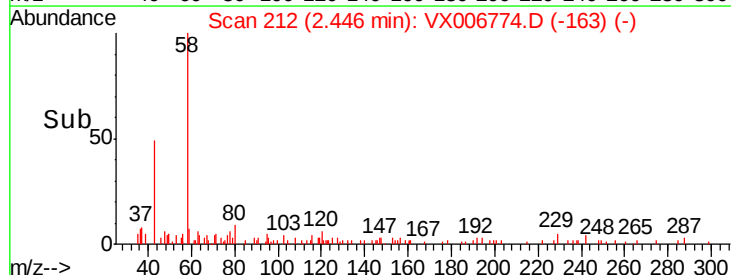
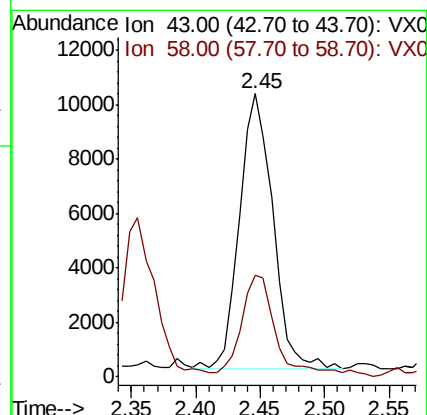
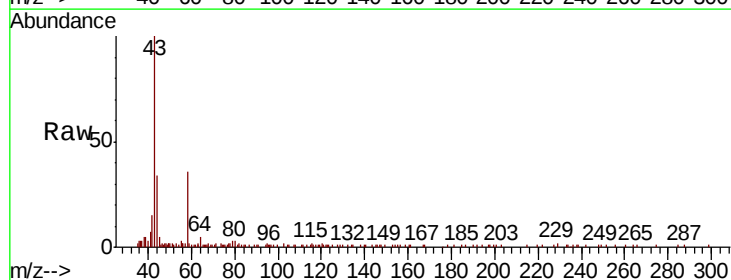
Acq: 22 Dec 2018 16:09

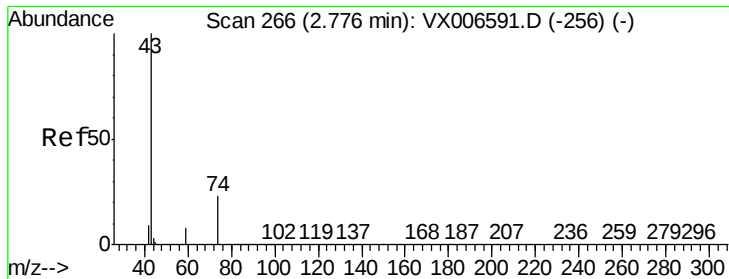
Tgt Ion: 43 Resp: 18211

Ion Ratio Lower Upper

43 100

58 35.6 25.0 37.6

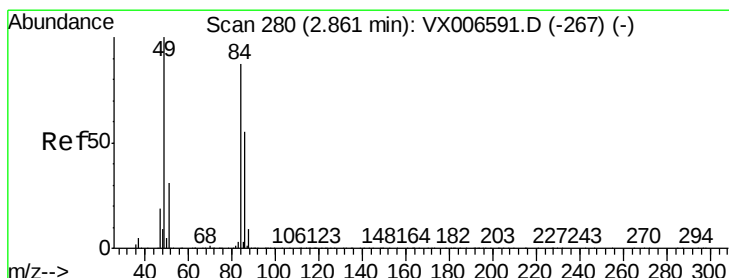
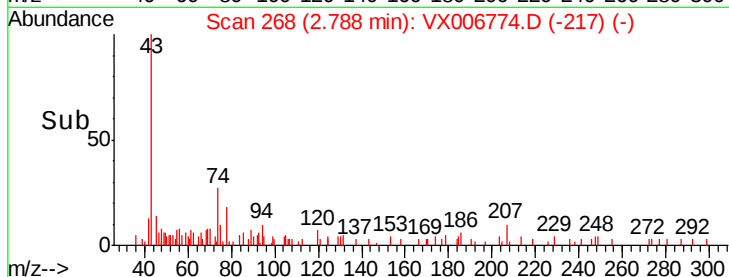
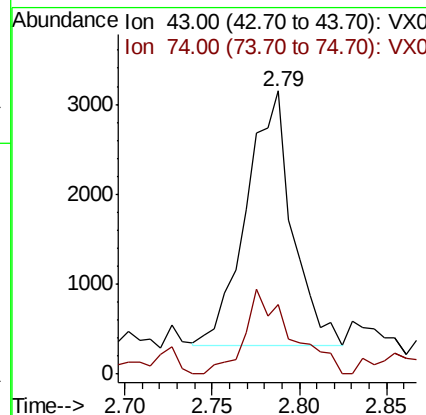
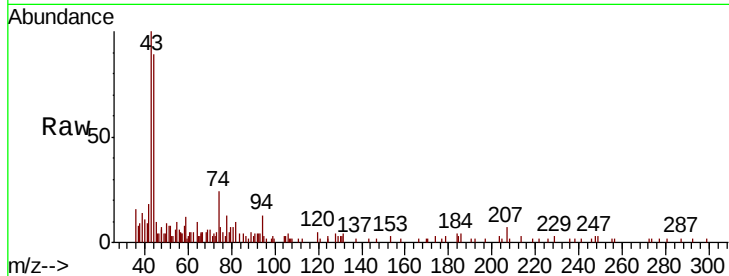




#18
Methyl Acetate
Concen: 0.558 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

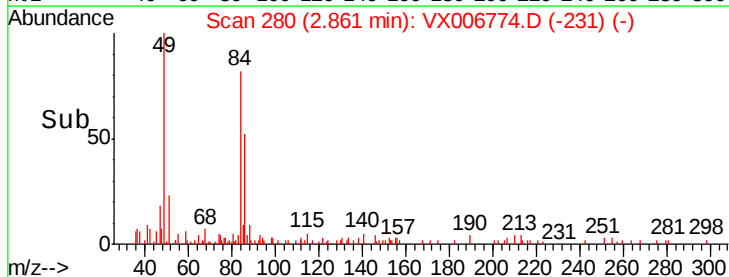
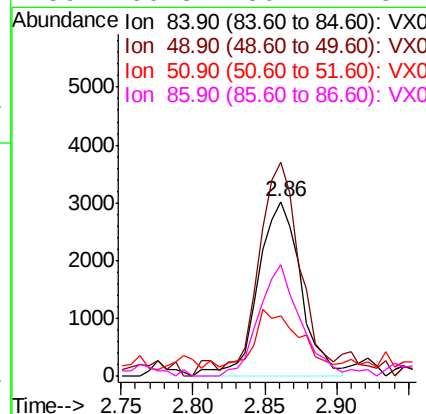
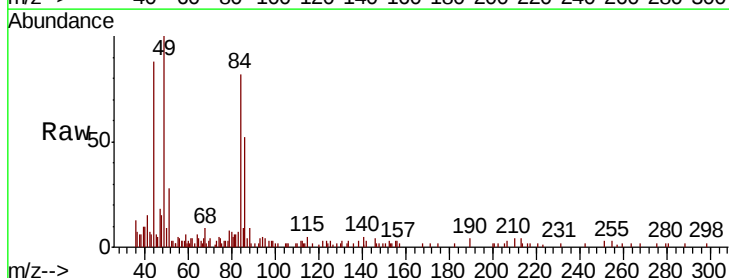
Instrument :
MSVOA_X
ClientSampleId :

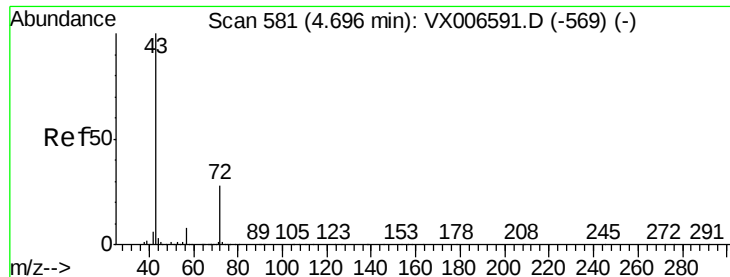
Tot Ion: 43 Resp: 5174
Ion Ratio Lower Upper
43 100
74 33.7 18.6 28.0#



#20
Methylene Chloride
Concen: 0.947 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

Tgt Ion: 84 Resp: 6176
Ion Ratio Lower Upper
84 100
49 117.6 91.8 137.6
51 28.3 28.5 42.7#
86 66.3 50.2 75.2





#25

2-Butanone

Concen: 22.553 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

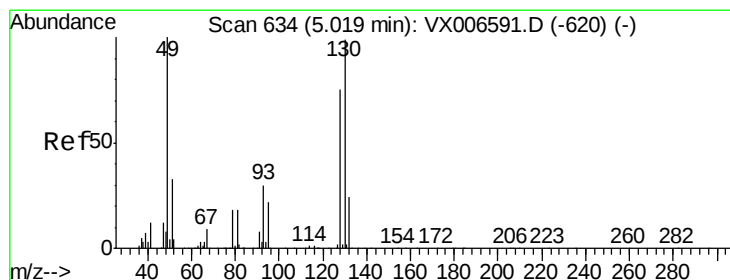
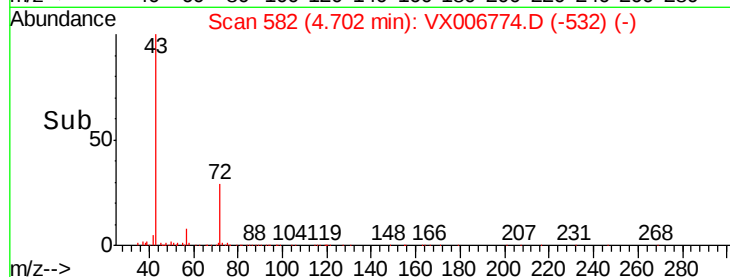
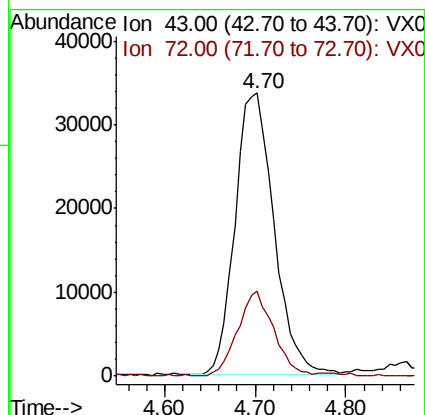
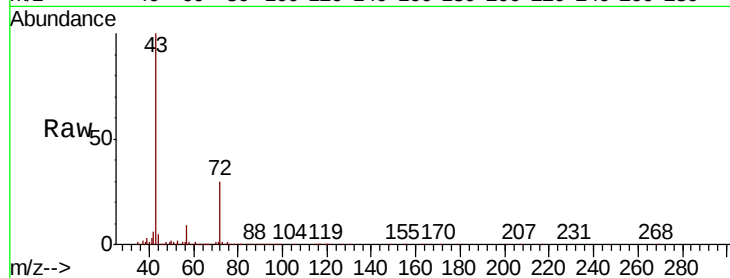
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 100062

Ion Ratio Lower Upper

43 100

72 30.1 22.4 33.6



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

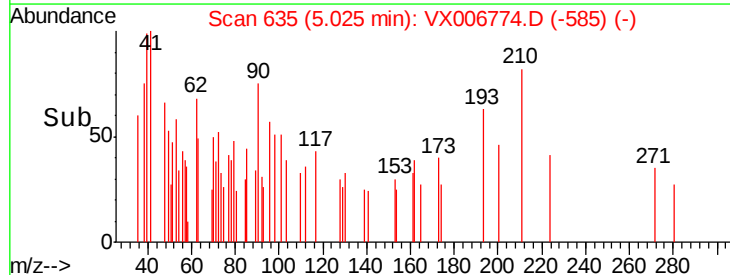
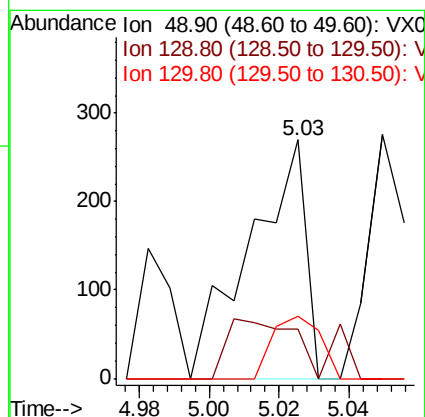
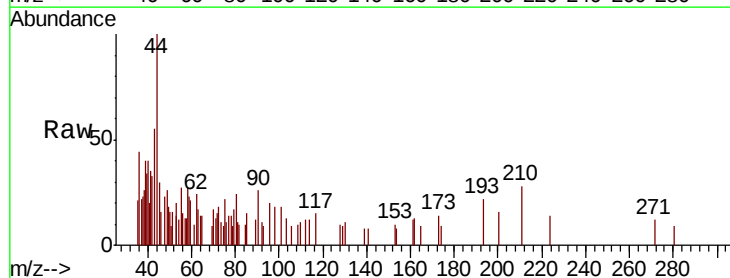
Tgt Ion: 49 Resp: 300

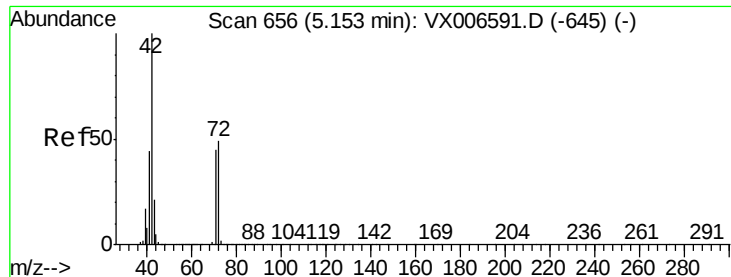
Ion Ratio Lower Upper

49 100

129 37.0 0.0 5.4#

130 22.3 77.7 116.5#

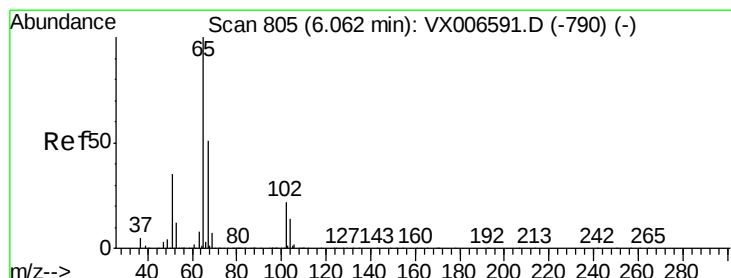
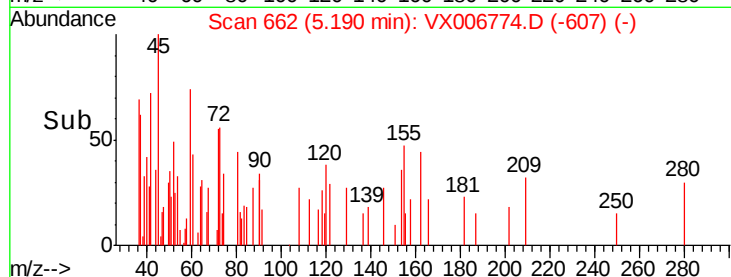
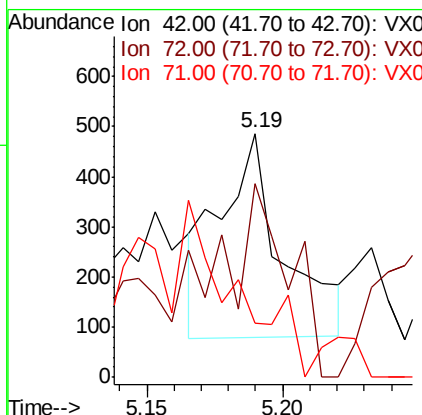
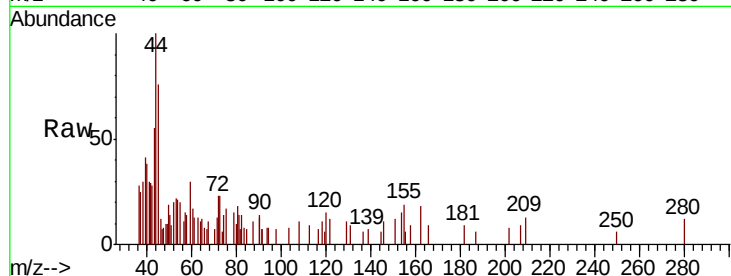




#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 5.19 min Scan# 662
Delta R.T. 0.04 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

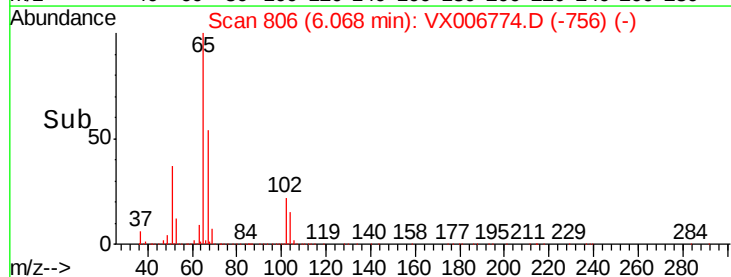
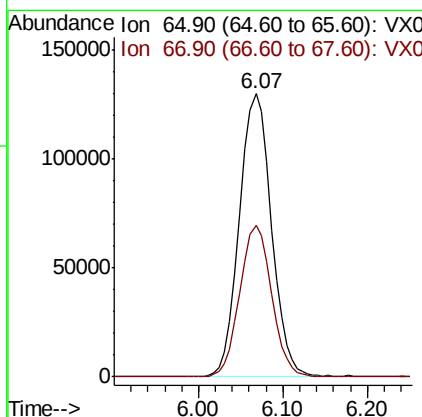
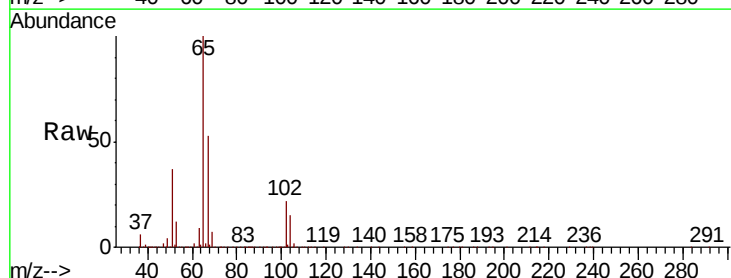
Instrument :
MSVOA_X
ClientSampled :

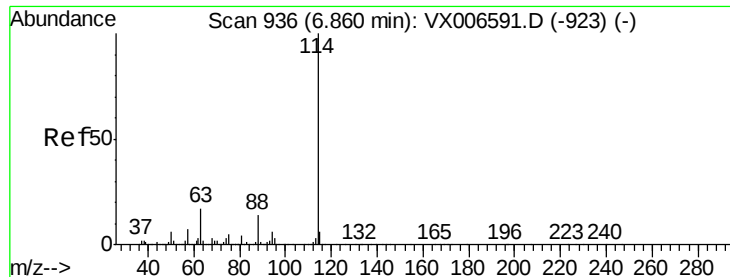
Tot Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
72 106.3 38.9 58.3#
71 0.0 36.2 54.4#



#33
1,2-Dichloroethane-d4
Concen: 48.793 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

Tgt Ion: 65 Resp: 334986
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

ClientSampled :

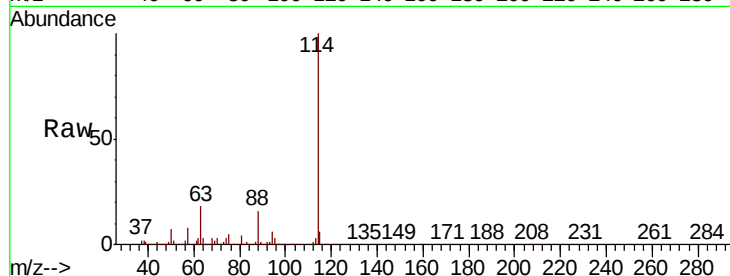
Tot Ion:114 Resp: 983803

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

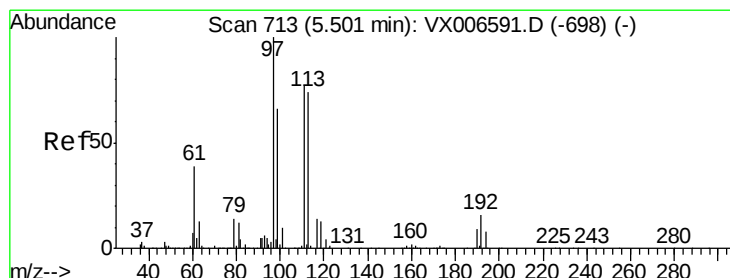
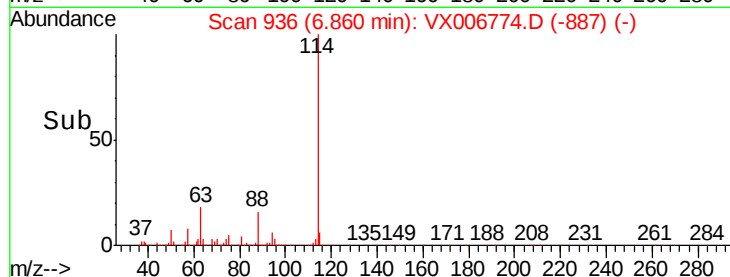
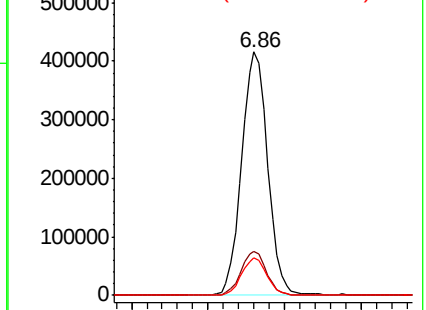
88 15.5 0.0 28.8



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: 47.622 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

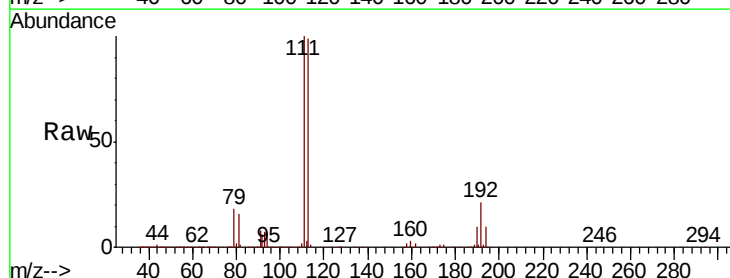
Tgt Ion:113 Resp: 296276

Ion Ratio Lower Upper

113 100

111 100.5 81.6 122.4

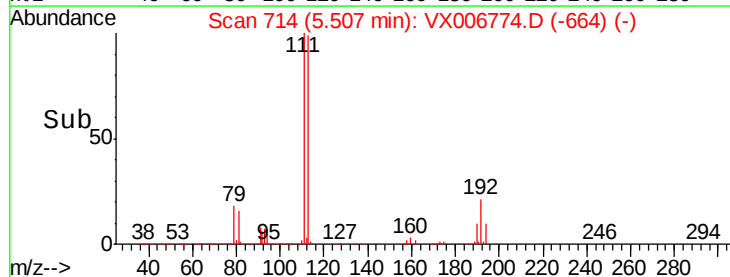
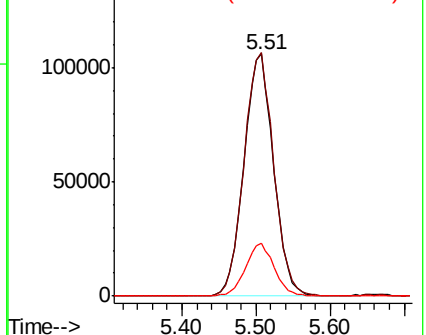
192 21.1 16.7 25.1

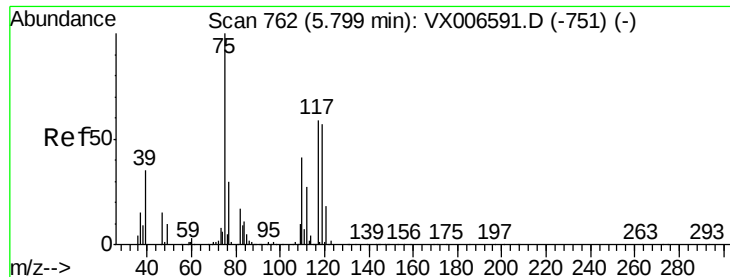


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.064 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

ClientSampleId :

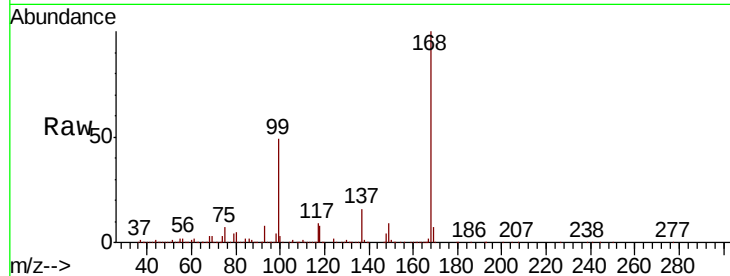
Tot Ion: 75 Resp: 41264

Ion Ratio Lower Upper

75 100

110 11.2 20.2 60.5#

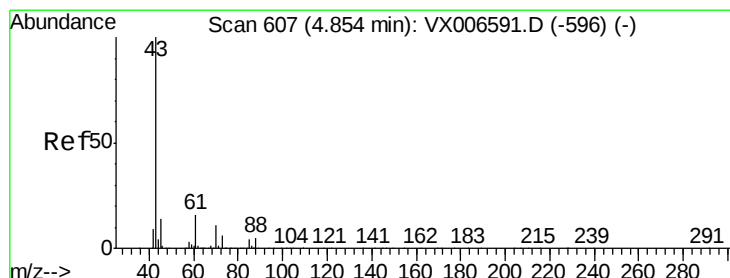
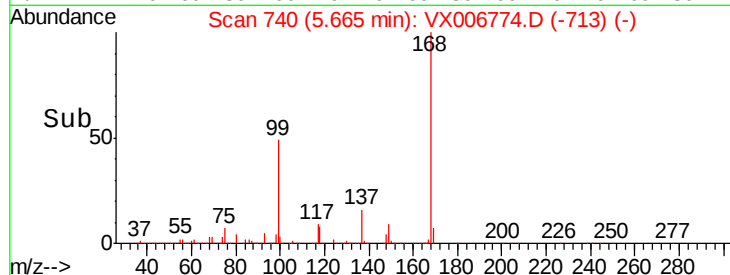
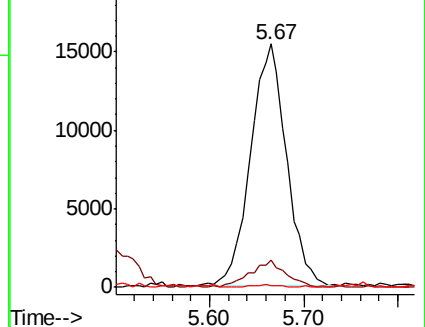
77 0.9 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 11.799 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.15 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

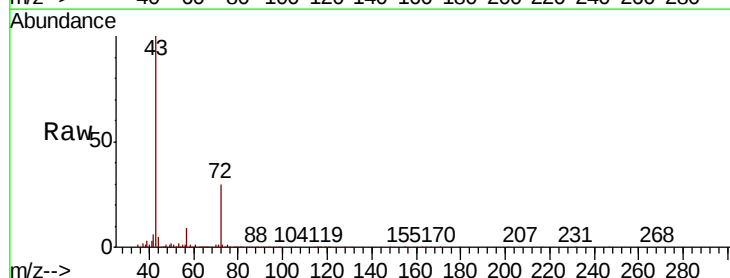
Tgt Ion: 43 Resp: 100062

Ion Ratio Lower Upper

43 100

61 0.3 11.9 17.9#

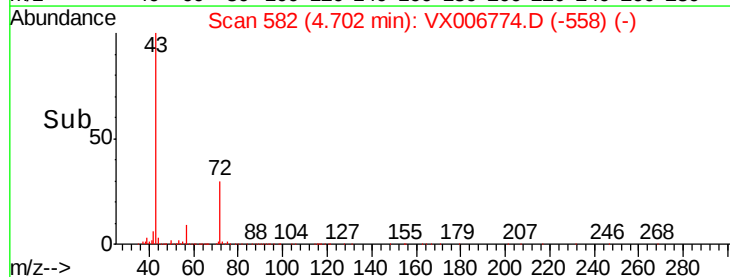
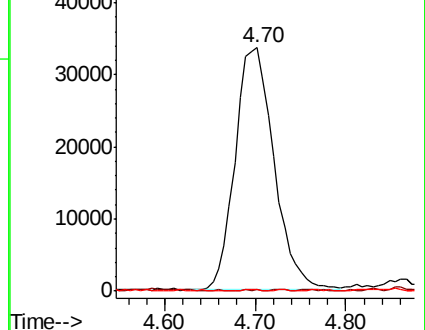
70 0.4 9.7 14.5#

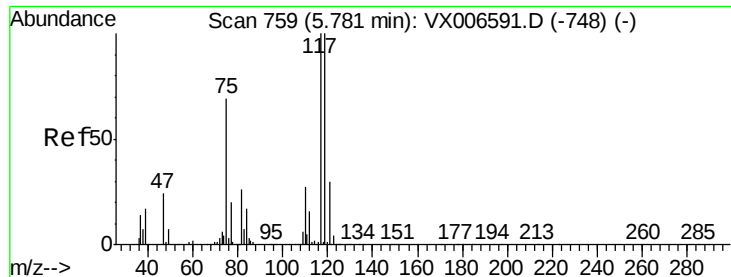


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.413 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

ClientSampled :

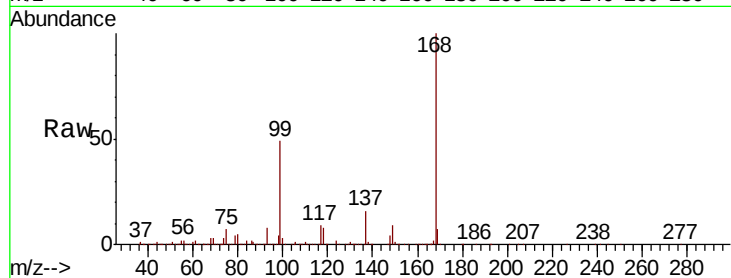
Tot Ion:117 Resp: 58704

Ion Ratio Lower Upper

117 100

119 3.9 79.4 119.2#

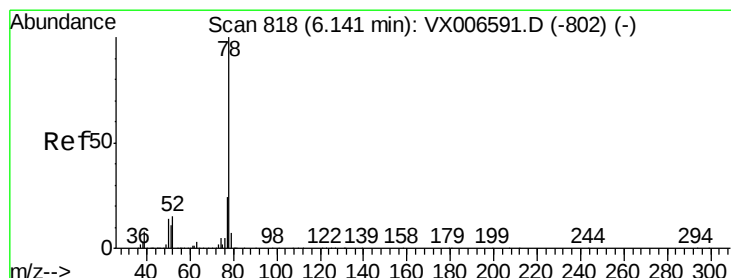
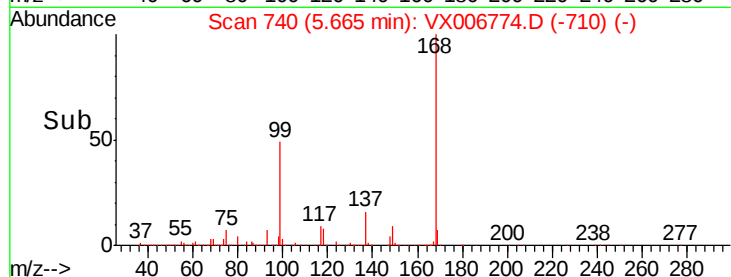
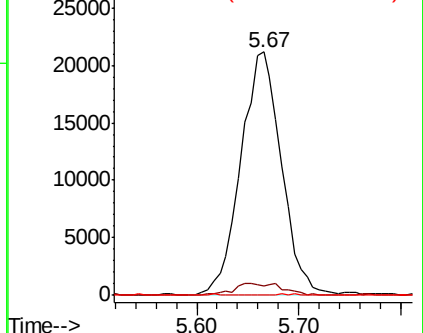
121 0.0 24.0 36.0#



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



#40

Benzene

Concen: 0.252 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX006774.D

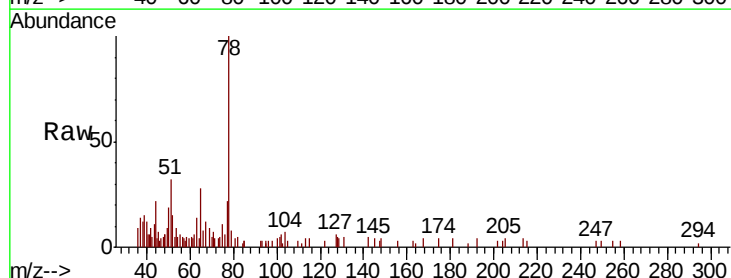
Acq: 22 Dec 2018 16:09

Tgt Ion: 78 Resp: 6250

Ion Ratio Lower Upper

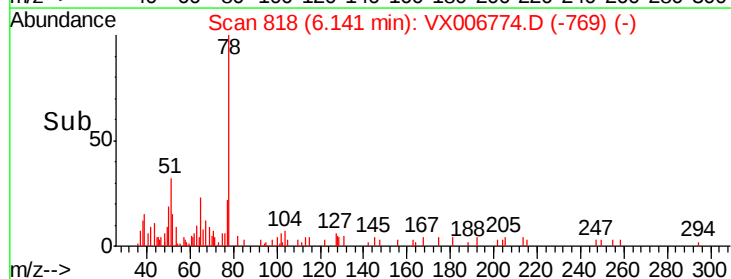
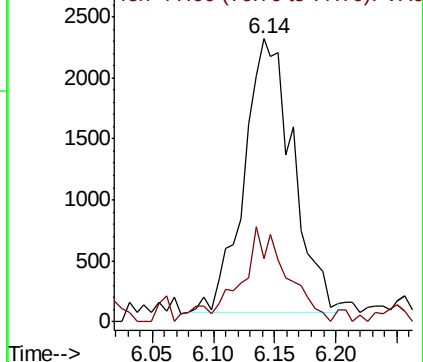
78 100

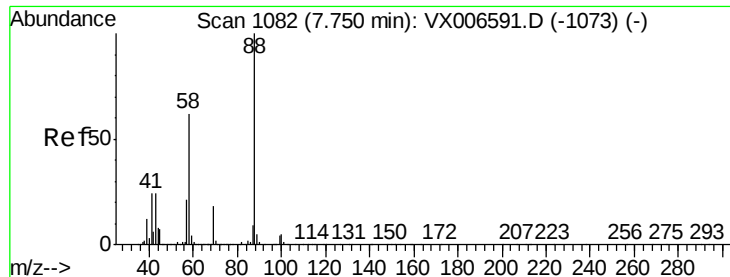
77 19.5 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

ClientSampled :

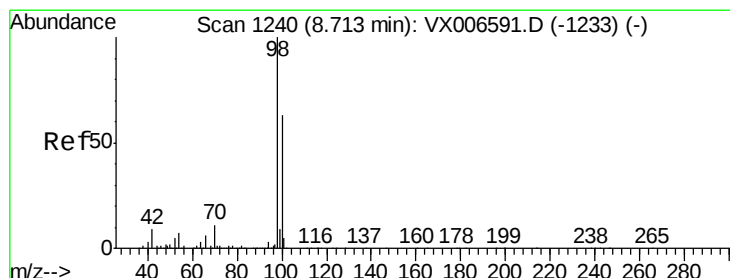
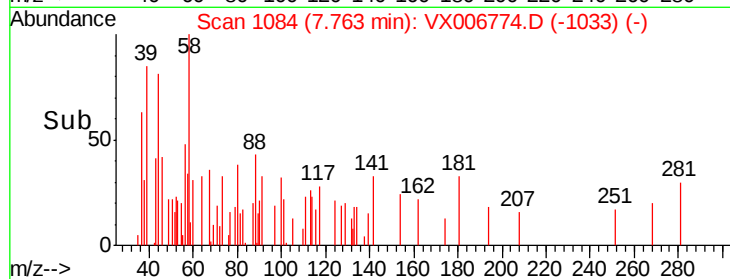
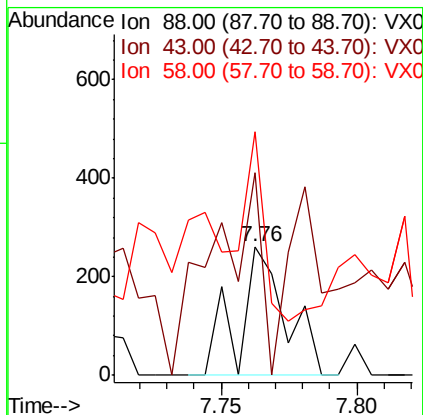
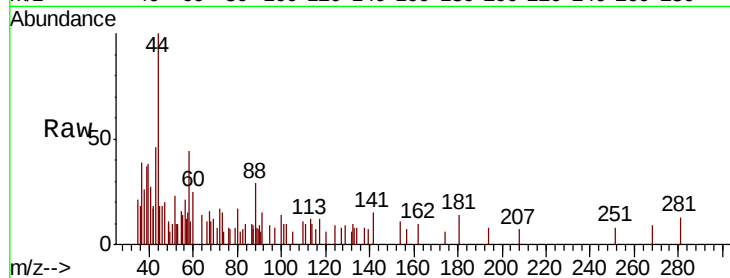
Tot Ion: 88 Resp: 312

Ion Ratio Lower Upper

88 100

43 159.9 22.2 33.4#

58 86.9 51.0 76.4#



#50

Toluene-d8

Concen: 49.069 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006774.D

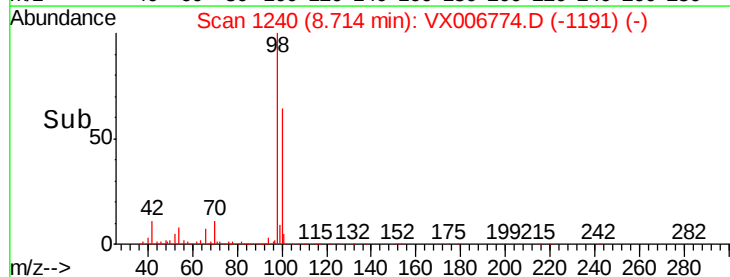
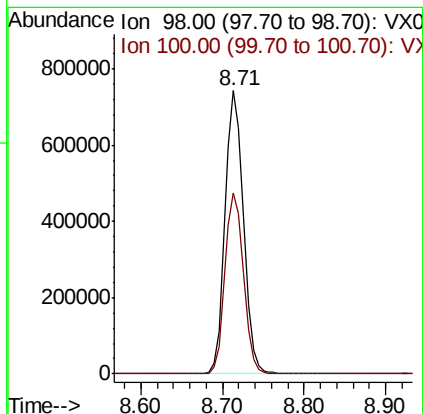
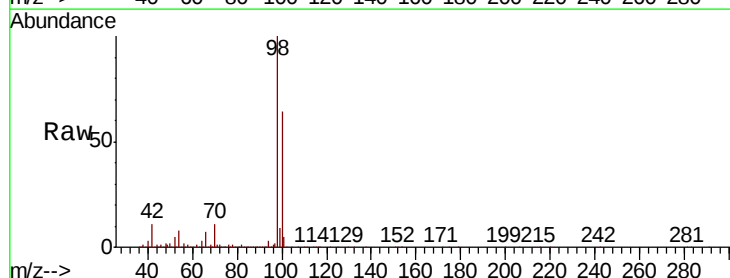
Acq: 22 Dec 2018 16:09

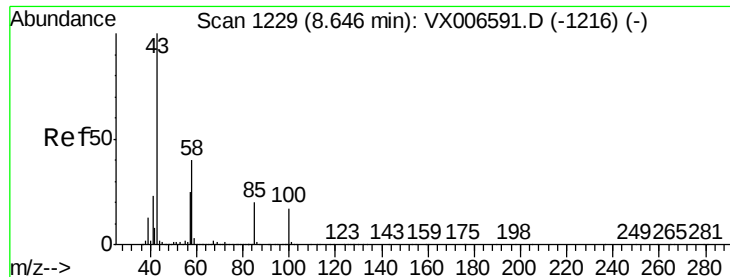
Tgt Ion: 98 Resp: 1150906

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0

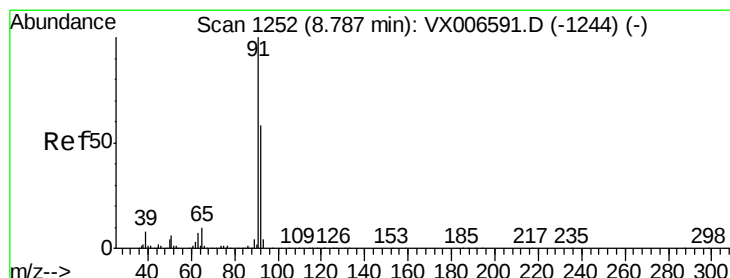
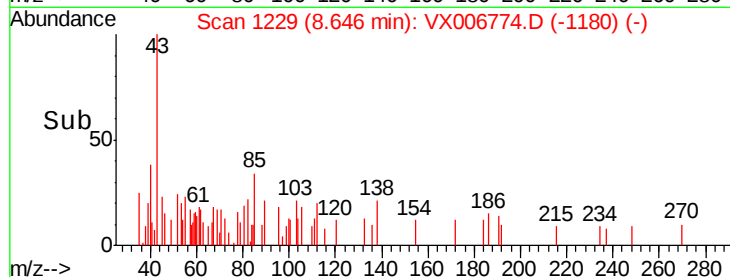
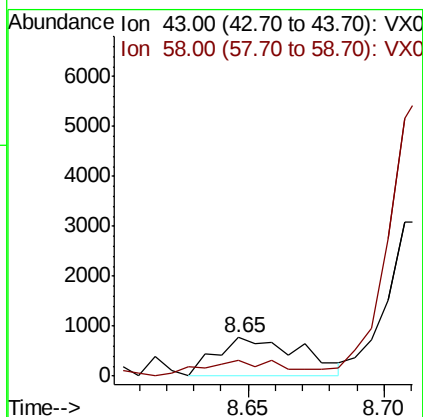
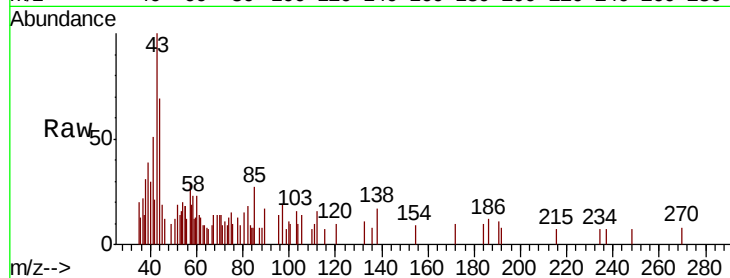




#51
4-Methyl-2-Pentanone
Concen: 0.203 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

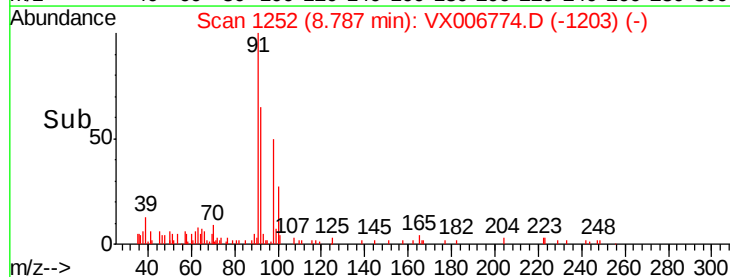
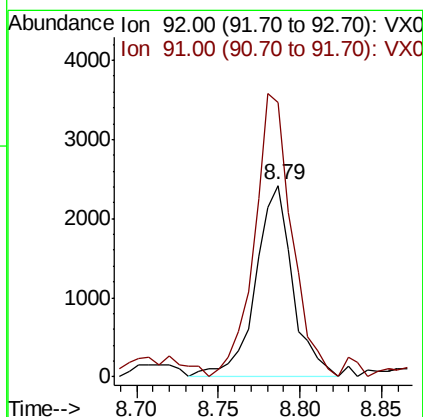
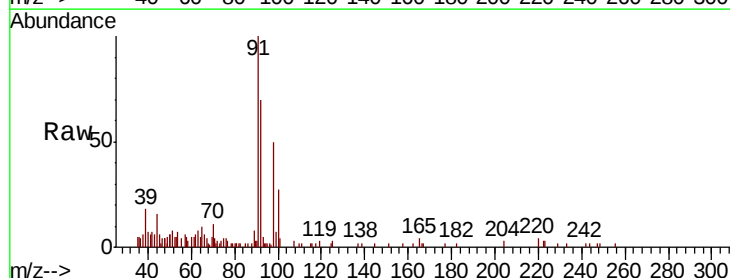
Instrument :
MSVOA_X
ClientSampleId :

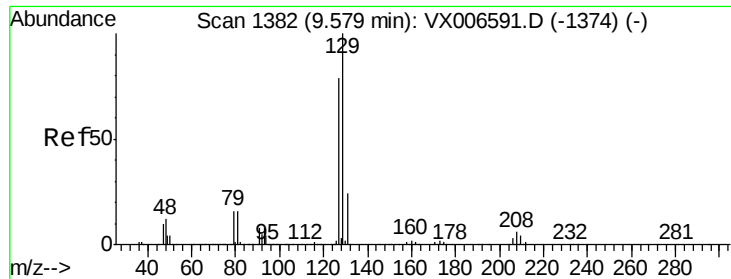
Tot Ion: 43 Resp: 1665
Ion Ratio Lower Upper
43 100
58 39.0 31.8 47.6



#52
Toluene
Concen: 0.239 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

Tgt Ion: 92 Resp: 3830
Ion Ratio Lower Upper
92 100
91 149.2 137.6 206.4





#60

Dibromochloromethane

Concen: 2.334 ug/l

RT: 9.41 min Scan# 1354

Delta R.T. -0.17 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

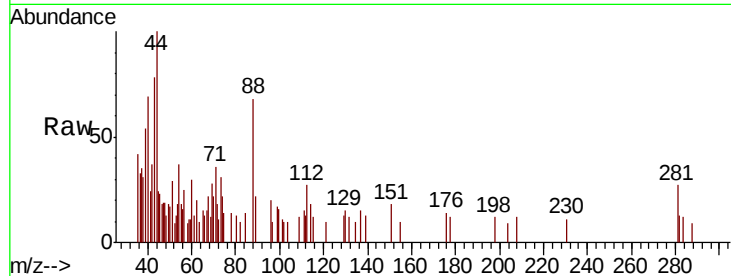
ClientSampled :

Tot Ion:129 Resp: 74

Ion Ratio Lower Upper

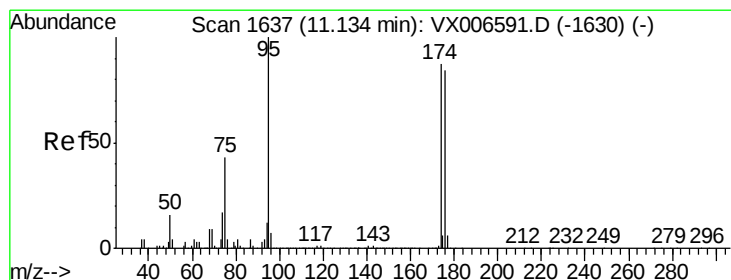
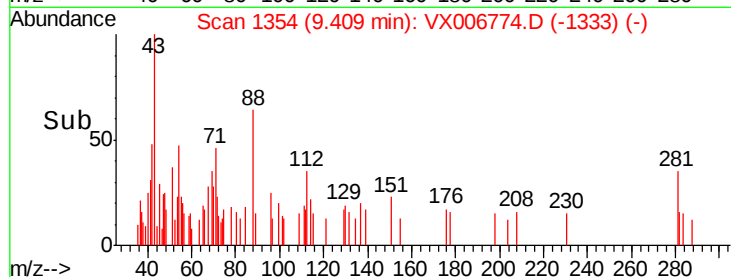
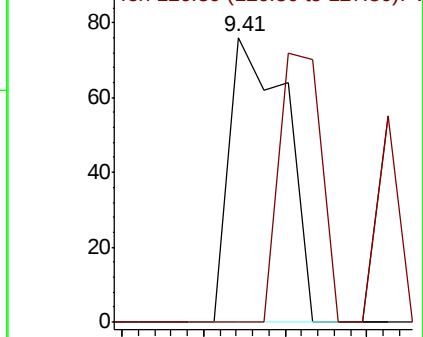
129 100

127 70.3 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.841 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

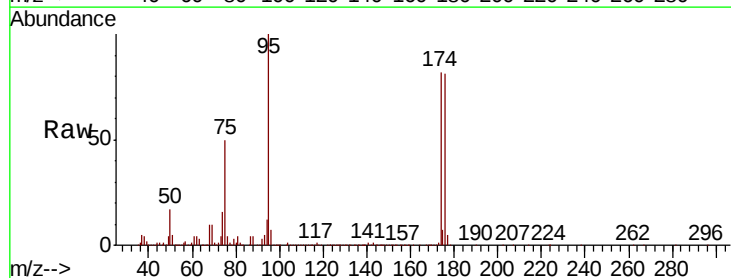
Tgt Ion: 95 Resp: 410957

Ion Ratio Lower Upper

95 100

174 87.0 0.0 182.2

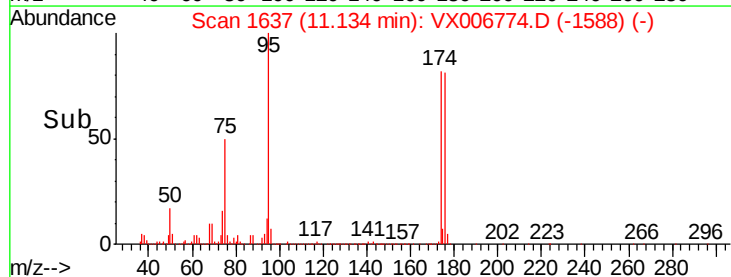
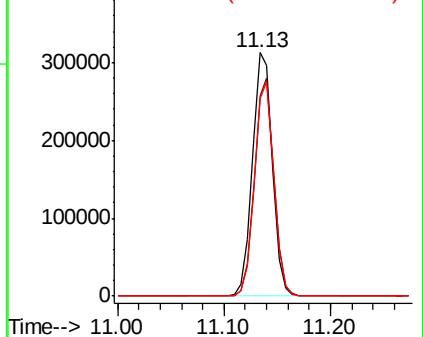
176 85.8 0.0 178.8

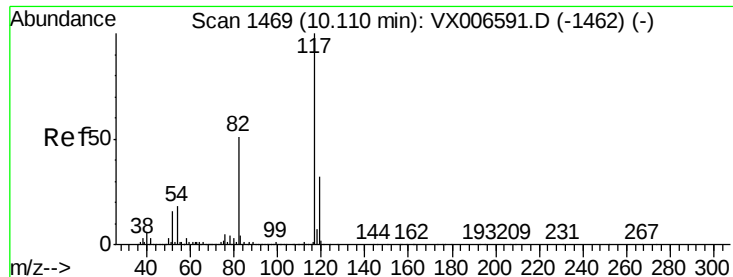


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

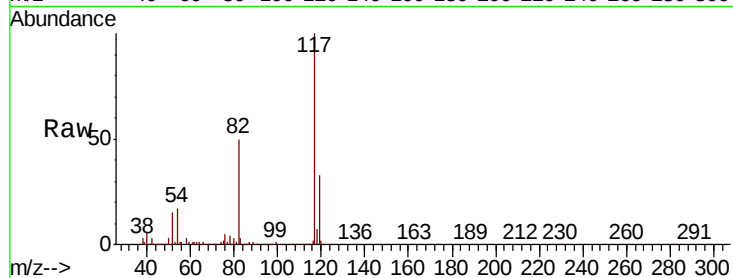




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.8	41.0	61.6
119	32.7	25.4	38.0

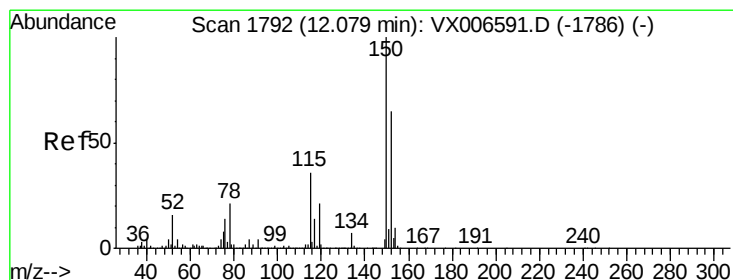
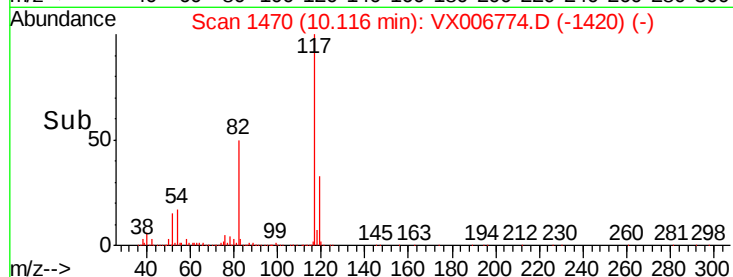
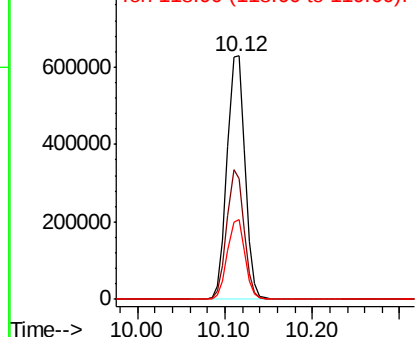


Abundance

Ion 116.90 (116.60 to 117.60): V

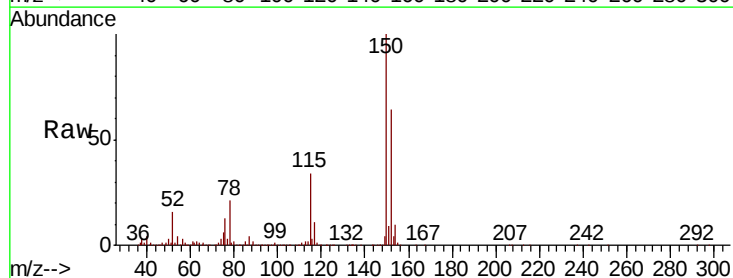
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006774.D
Acq: 22 Dec 2018 16:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	39.1	117.2
150	156.5	0.0	344.8

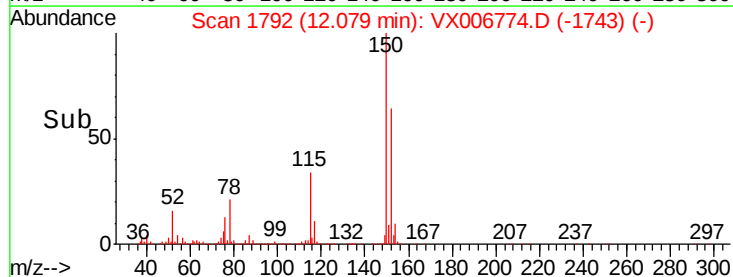
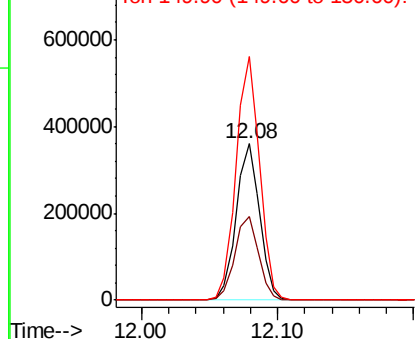


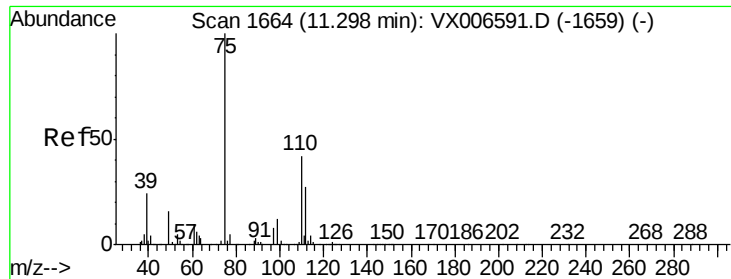
Abundance

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

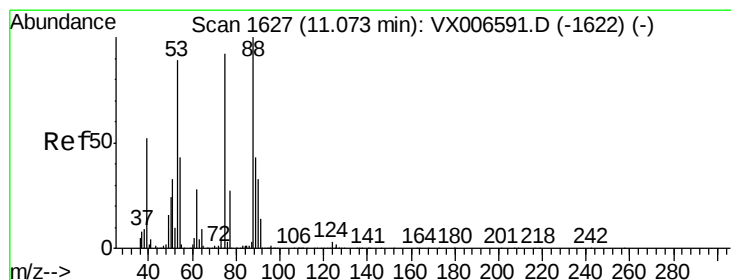
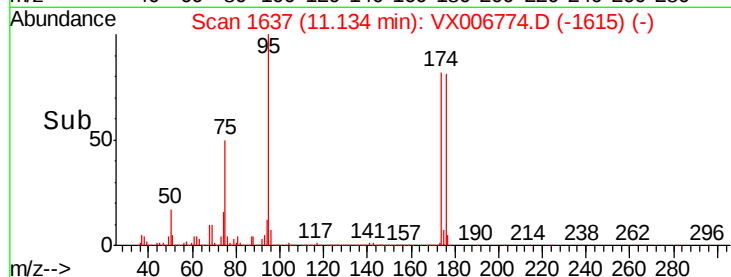
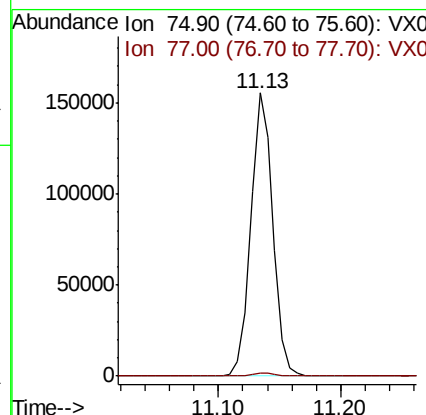
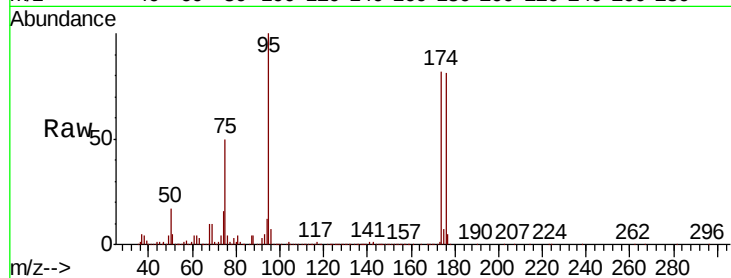




#76
 1,2,3-Trichloropropane
 Concen: 24.179 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006774.D
 Acq: 22 Dec 2018 16:09

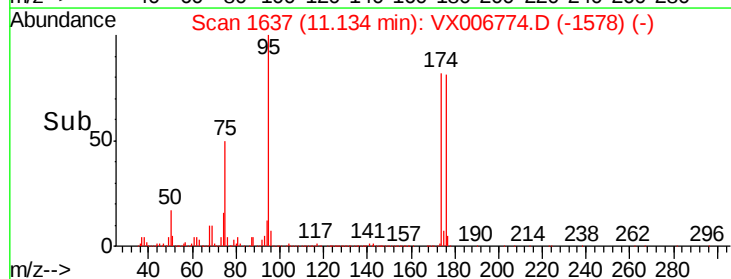
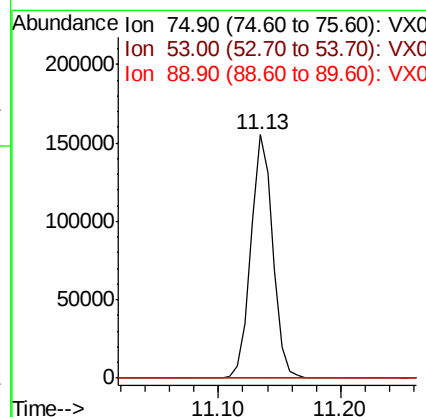
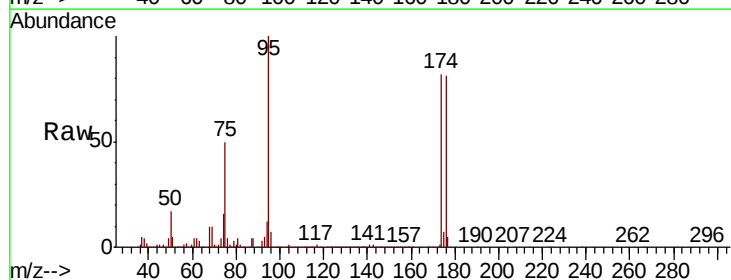
Instrument :
 MSVOA_X
 ClientSampleId :

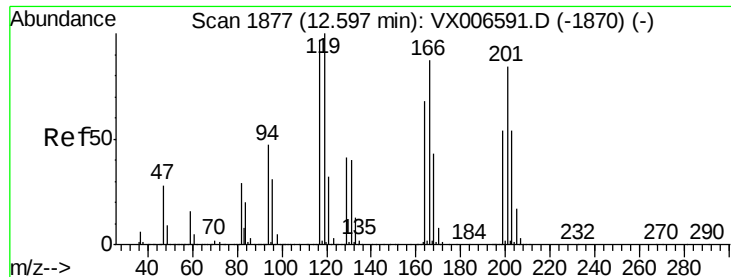
Tot Ion: 75 Resp: 193371
 Ion Ratio Lower Upper
 75 100
 77 1.2 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.586 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006774.D
 Acq: 22 Dec 2018 16:09

Tgt Ion: 75 Resp: 193371
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.330 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX006774.D

Acq: 22 Dec 2018 16:09

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 162

Ion Ratio Lower Upper

117 100

201 45.7 42.9 128.7

