

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006677.D
 Acq On : 20 Dec 2018 15:47
 Operator : JC/MD
 Sample : J6484-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 971-MW-15(17)

Quant Time: Dec 21 03:32:01 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	620134	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	979825	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	894608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	426454	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	343620	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
35) Dibromofluoromethane	5.50	113	287867	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	
50) Toluene-d8	8.71	98	1160129	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	11.13	95	414460	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	

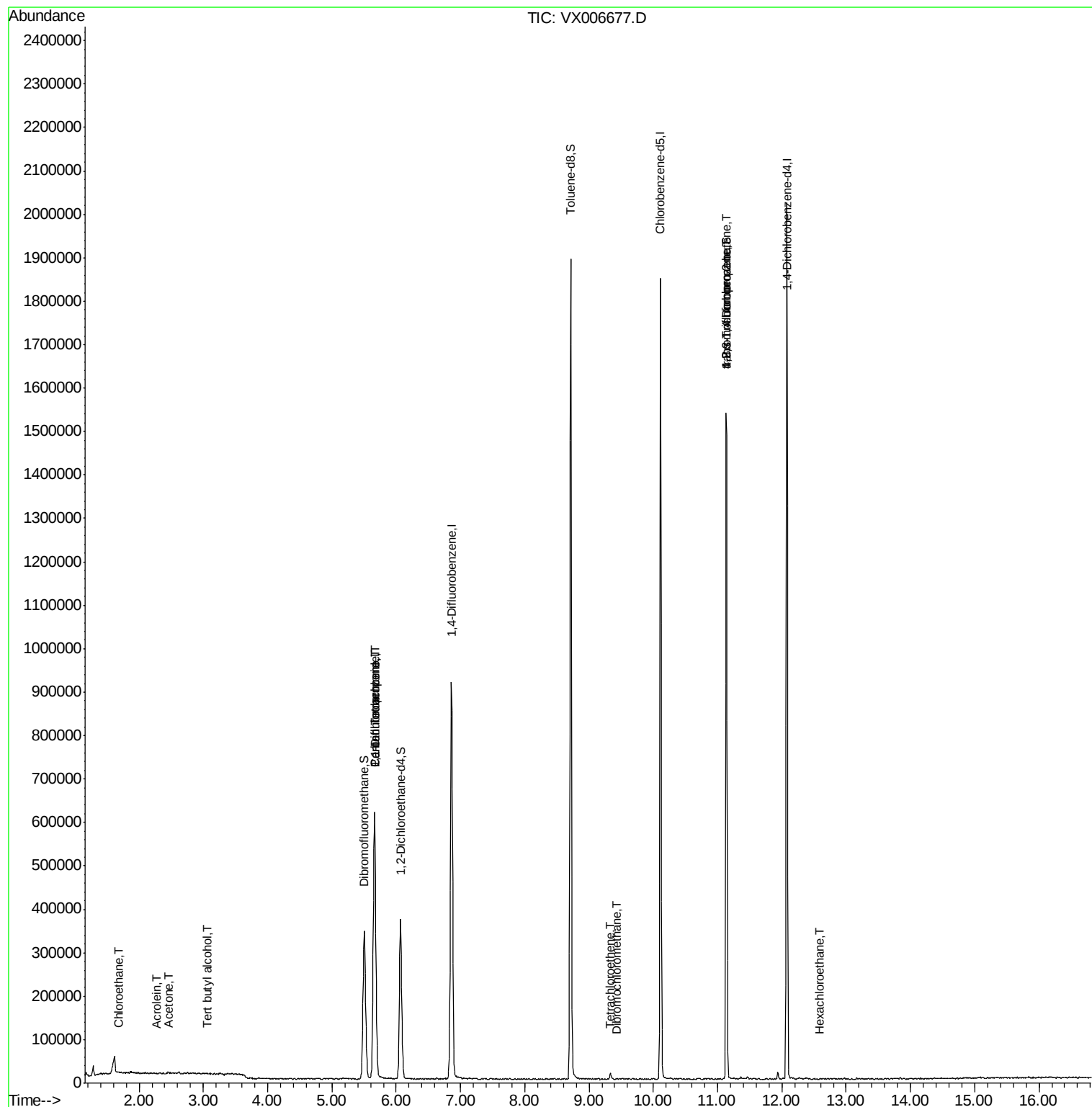
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1429	Below Cal	#	44
6) Chloroethane	1.69	64	1049	0.237	ug/l #	70
11) Tert butyl alcohol	3.07	59	1016	0.681	ug/l	95
13) Acrolein	2.28	56	309	0.307	ug/l	83
16) Acetone	2.45	43	2944	0.959	ug/l	96
28) Bromochloromethane	5.00	49	466	Below Cal	#	37
36) 1,1-Dichloropropene	5.67	75	42389	5.223	ug/l #	49
38) Carbon Tetrachloride	5.67	117	57866	7.337	ug/l #	15
49) 1,4-Dioxane	7.76	88	47	Below Cal	#	1
60) Dibromochloromethane	9.42	129	117	2.341	ug/l	85
64) Tetrachloroethene	9.34	164	2476	0.350	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	193544	24.421	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	193544	72.261	ug/l #	10
90) Hexachloroethane	12.59	117	30	3.300	ug/l #	6

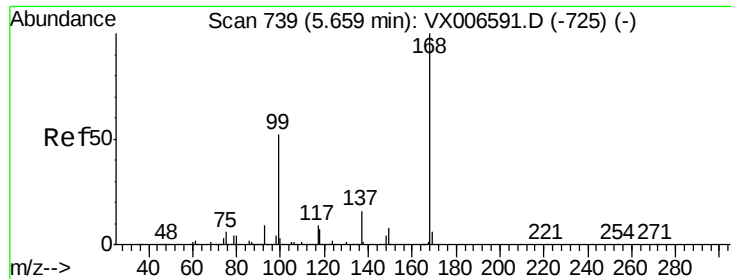
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

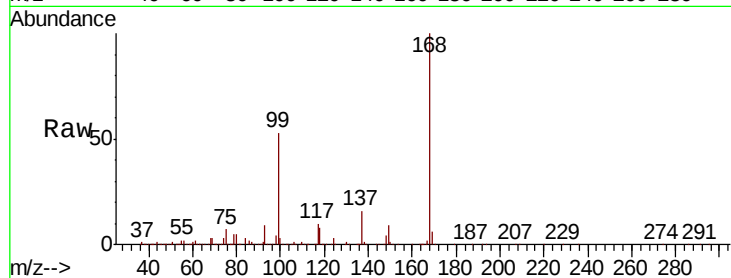
971-MW-15(17)

Tot Ion:168 Resp: 620134

Ion Ratio Lower Upper

168 100

99 52.8 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

200000

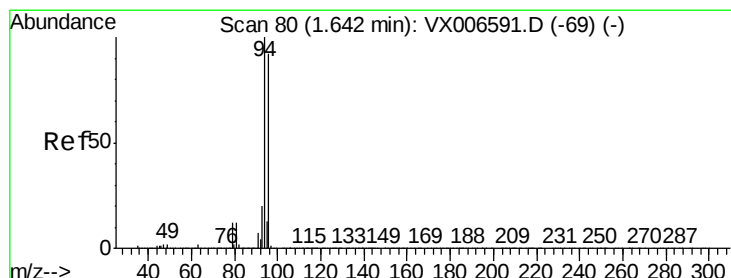
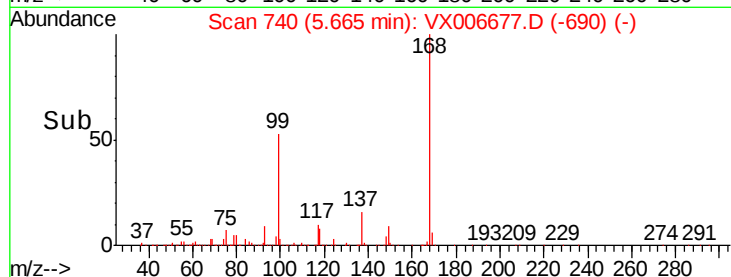
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006677.D

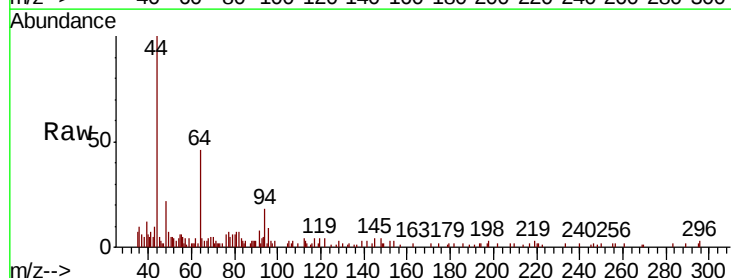
Acq: 20 Dec 2018 15:47

Tgt Ion: 94 Resp: 1429

Ion Ratio Lower Upper

94 100

96 38.2 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

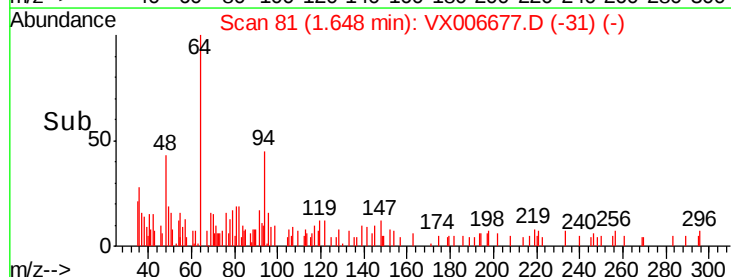
600

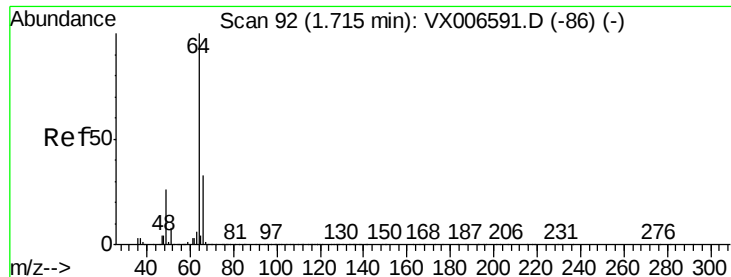
400

200

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.237 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

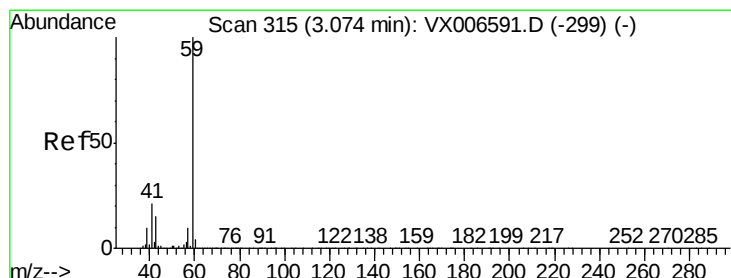
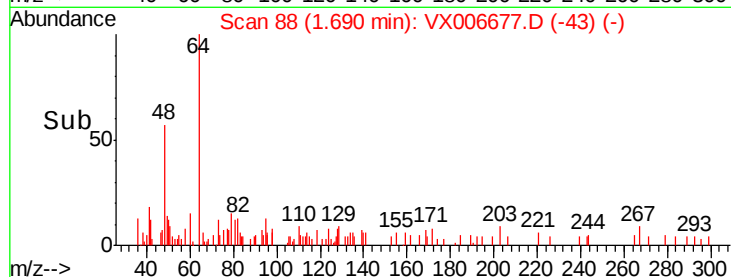
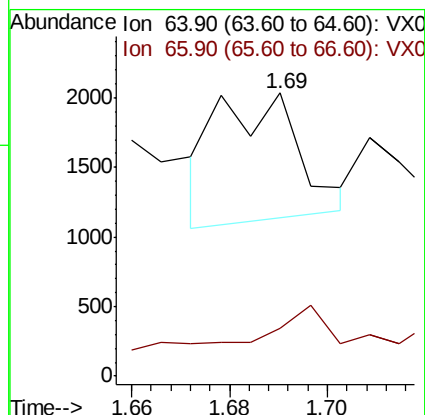
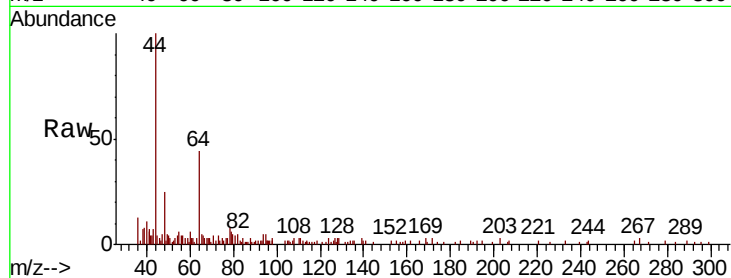
971-MW-15(17)

Tot Ion: 64 Resp: 1049

Ion Ratio Lower Upper

64 100

66 16.0 26.4 39.6#



#11

Tert butyl alcohol

Concen: 0.681 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006677.D

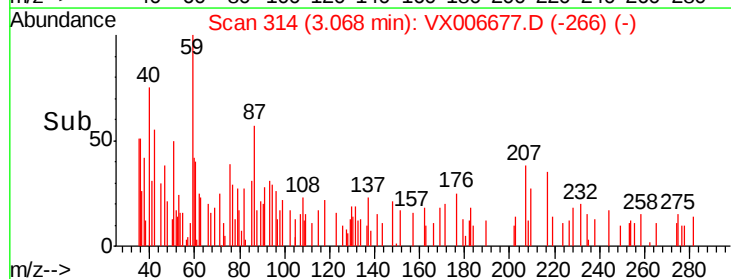
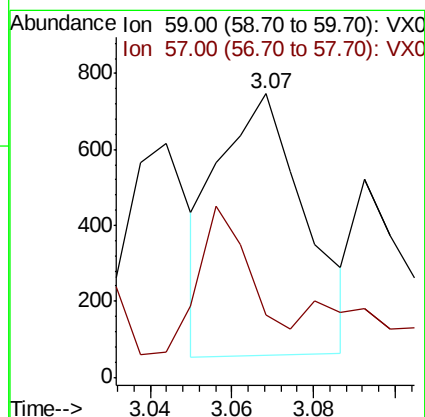
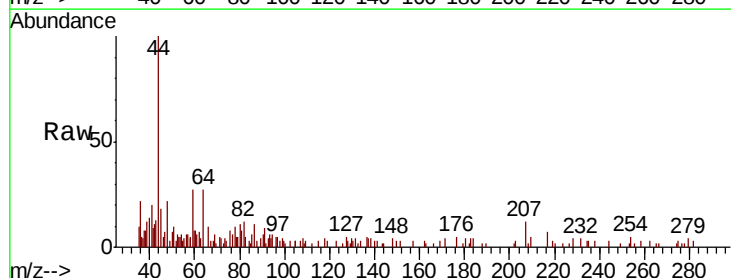
Acq: 20 Dec 2018 15:47

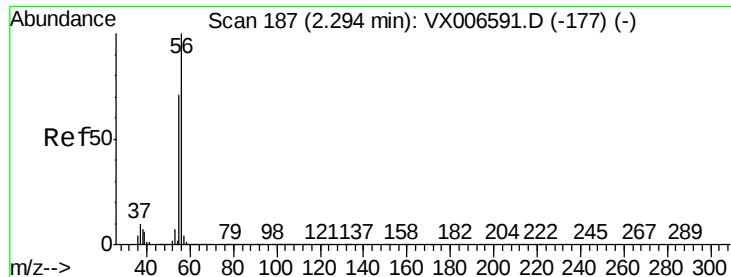
Tgt Ion: 59 Resp: 1016

Ion Ratio Lower Upper

59 100

57 12.6 8.5 12.7





#13

Acrolein

Concen: 0.307 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

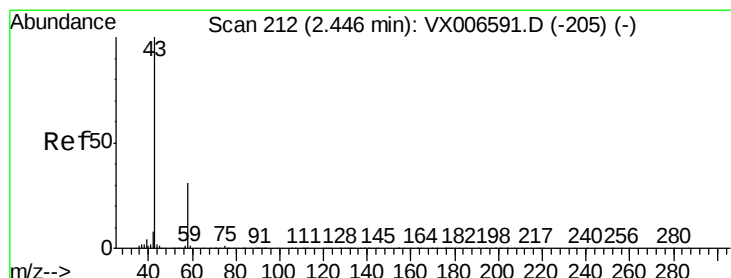
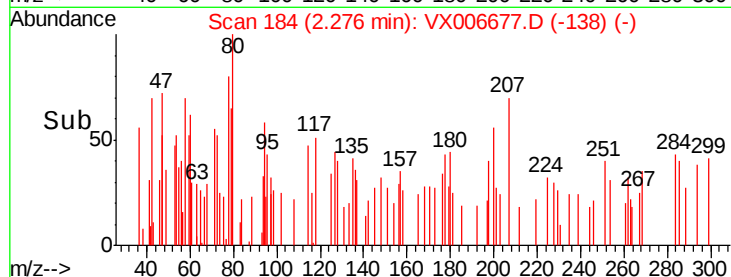
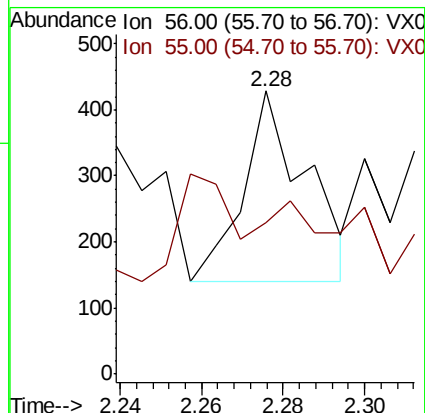
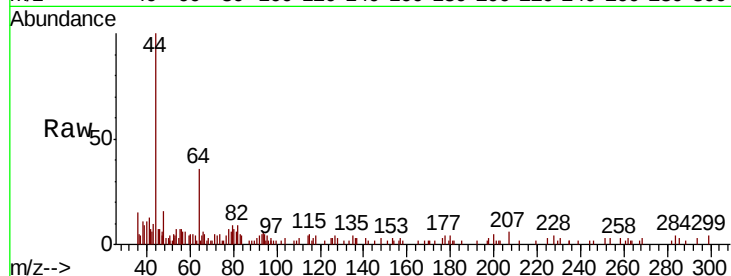
971-MW-15(17)

Tot Ion: 56 Resp: 309

Ion Ratio Lower Upper

56 100

55 58.3 58.2 87.4



#16

Acetone

Concen: 0.959 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006677.D

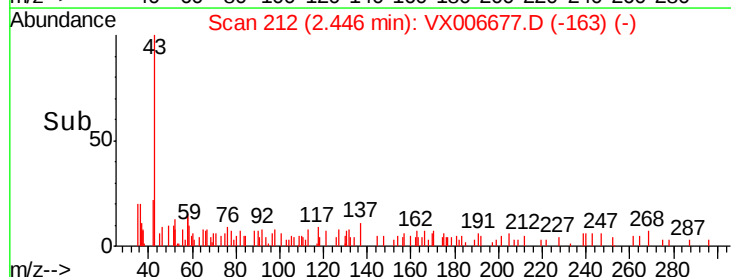
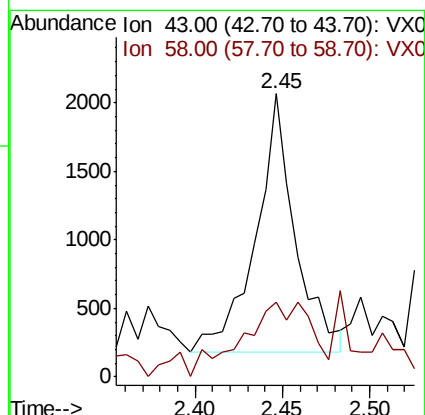
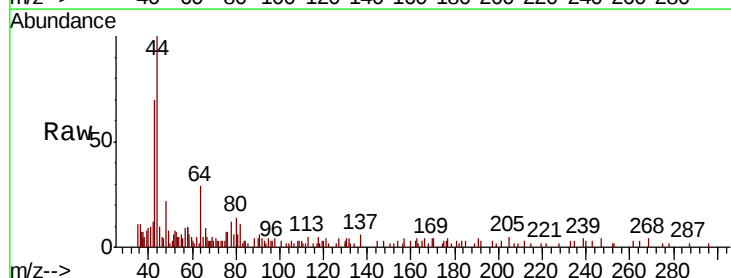
Acq: 20 Dec 2018 15:47

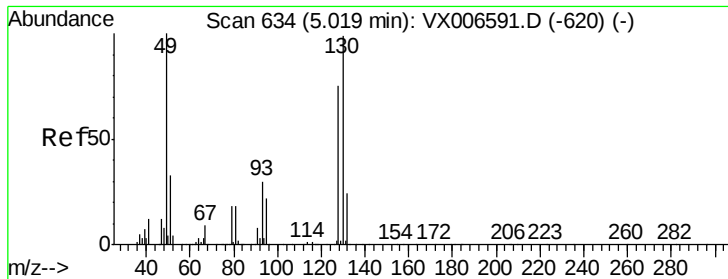
Tgt Ion: 43 Resp: 2944

Ion Ratio Lower Upper

43 100

58 29.0 25.0 37.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

971-MW-15(17)

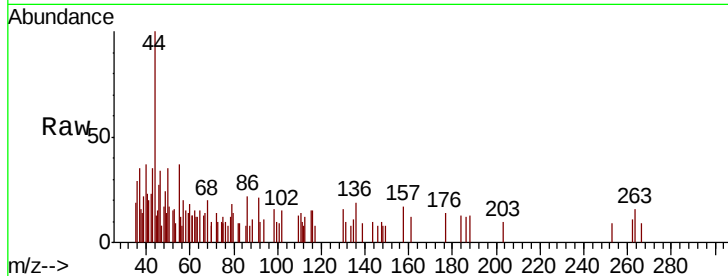
Tot Ion: 49 Resp: 466

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

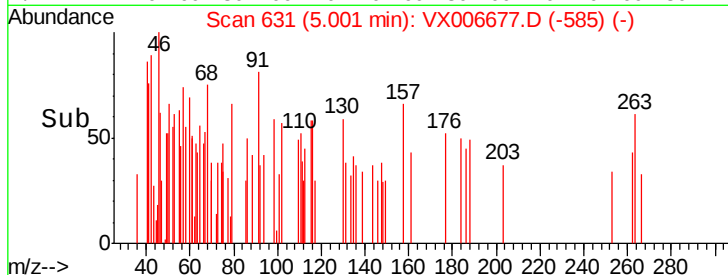
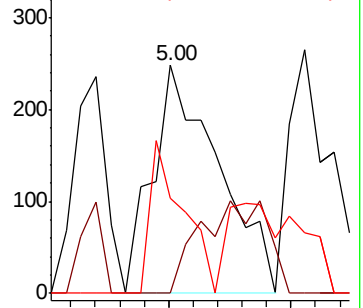
130 33.5 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 51.413 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006677.D

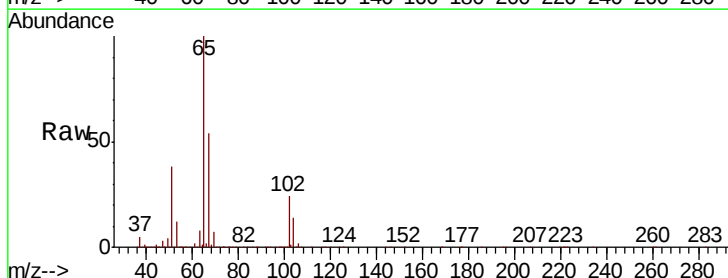
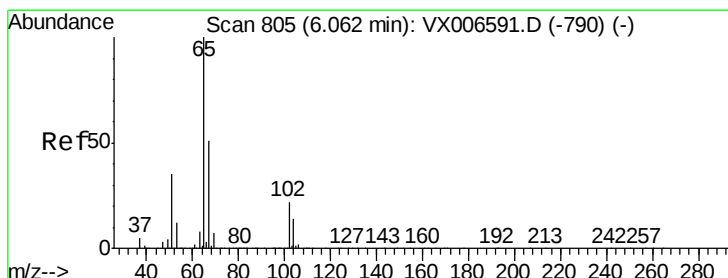
Acq: 20 Dec 2018 15:47

Tgt Ion: 65 Resp: 343620

Ion Ratio Lower Upper

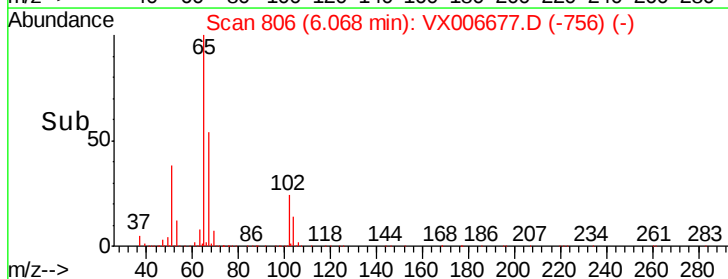
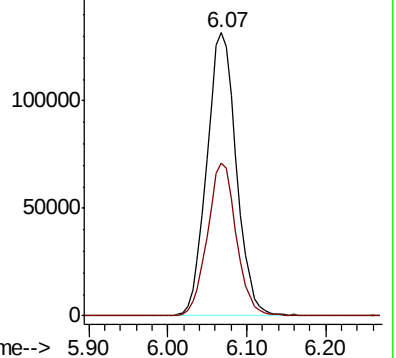
65 100

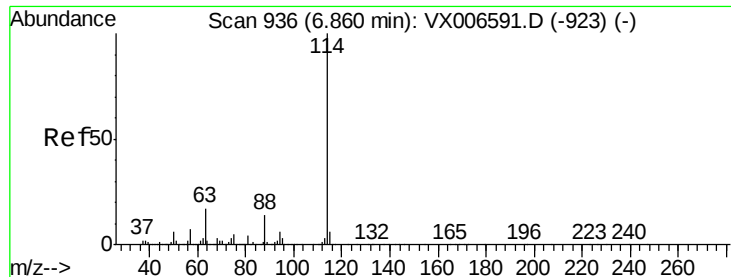
67 52.7 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

971-MW-15(17)

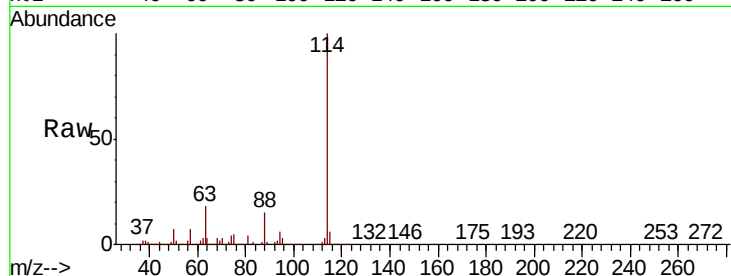
Tot Ion:114 Resp: 979825

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

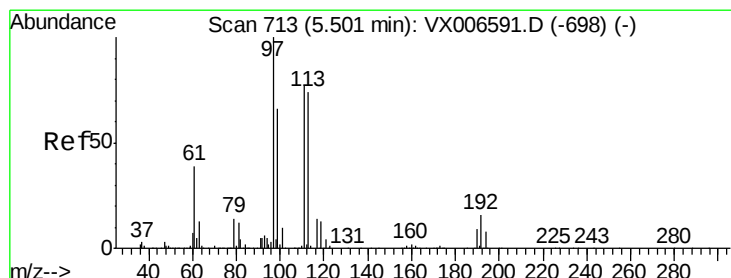
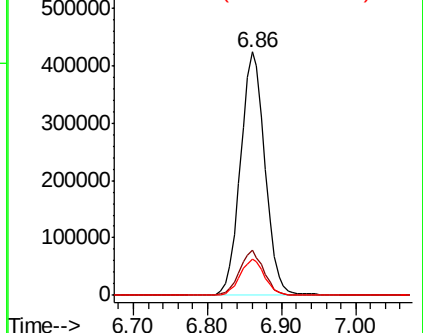
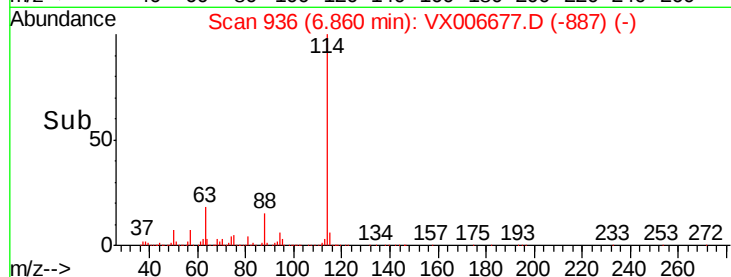
88 14.7 0.0 28.8



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: 46.458 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

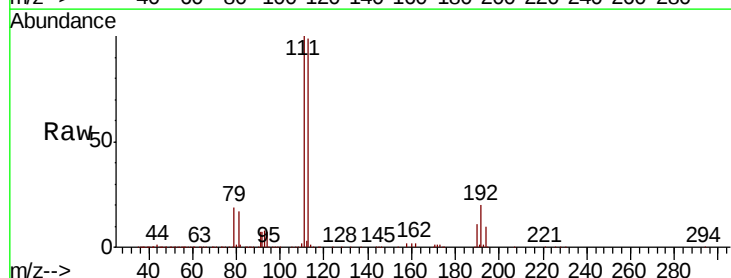
Tgt Ion:113 Resp: 287867

Ion Ratio Lower Upper

113 100

111 103.5 81.6 122.4

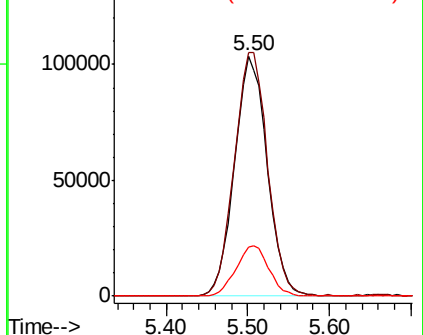
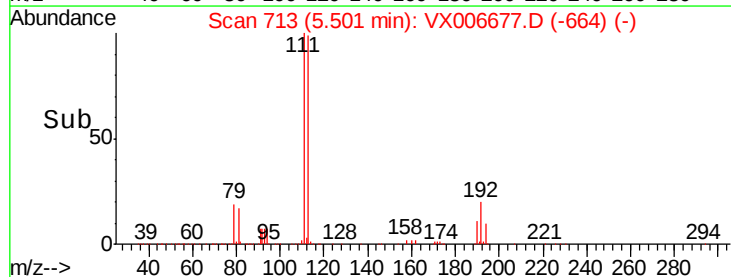
192 21.0 16.7 25.1

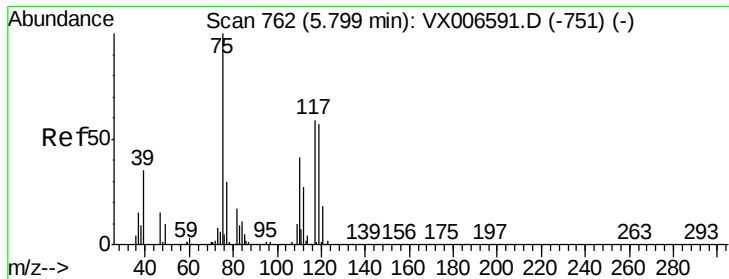


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

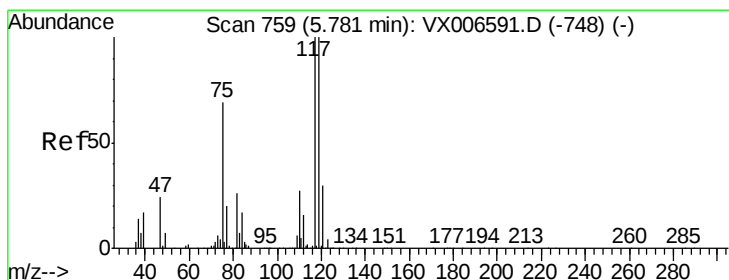
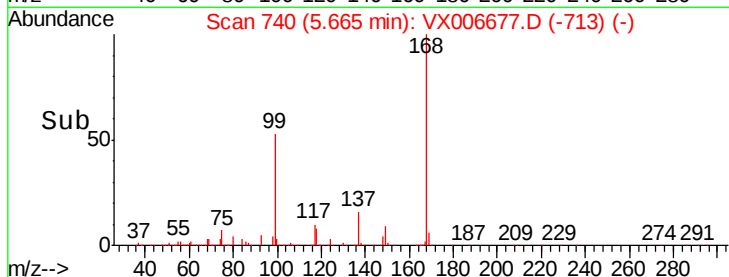
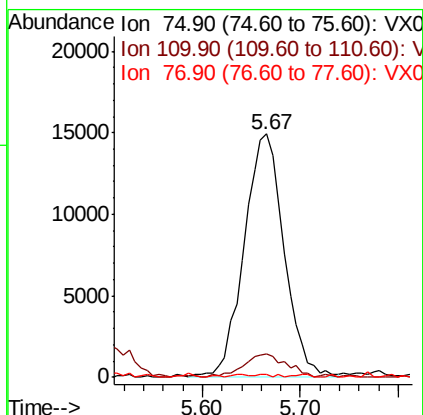
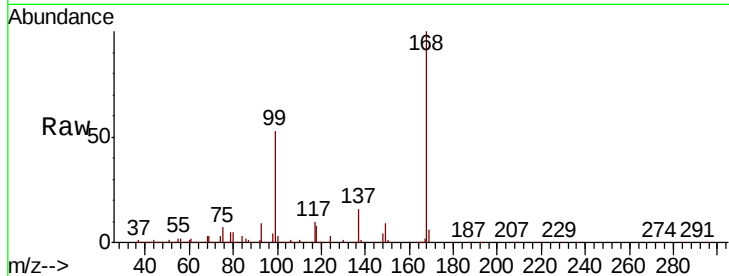




#36
 1,1-Dichloropropene
 Concen: 5.223 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006677.D
 Acq: 20 Dec 2018 15:47

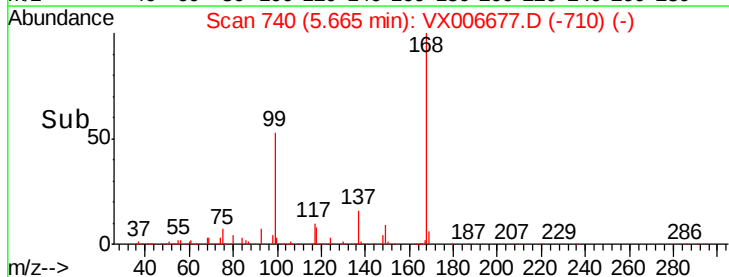
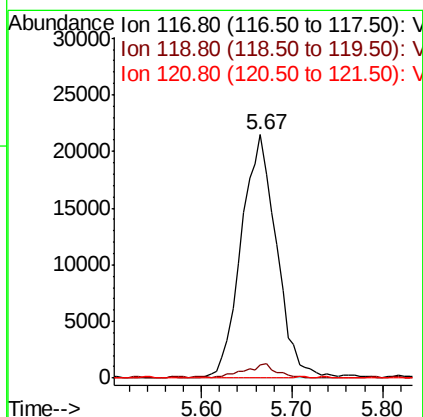
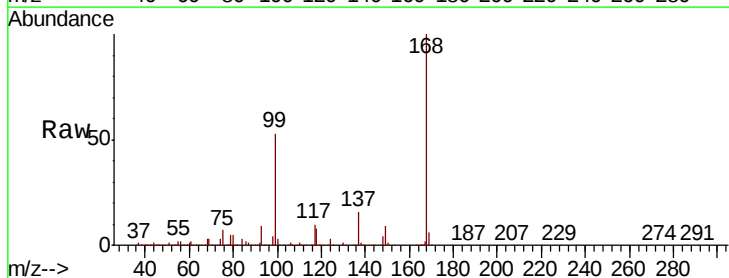
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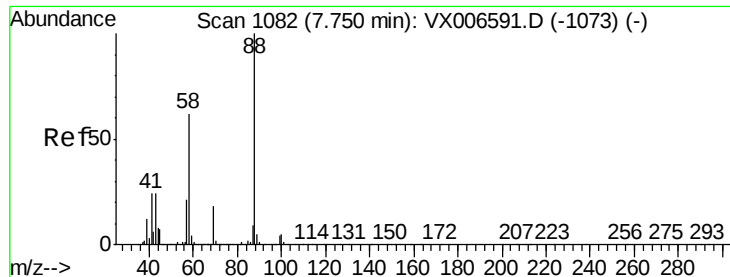
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.4	20.2	60.5#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.337 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006677.D
 Acq: 20 Dec 2018 15:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	79.4	119.2#
121	0.4	24.0	36.0#

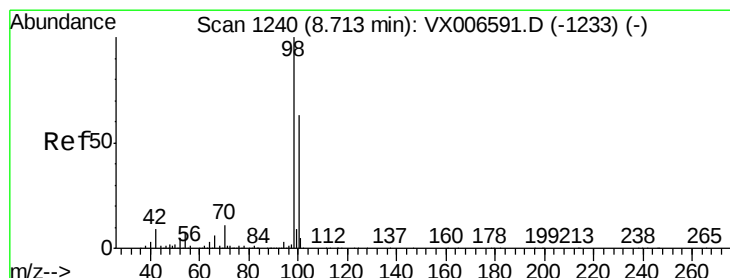
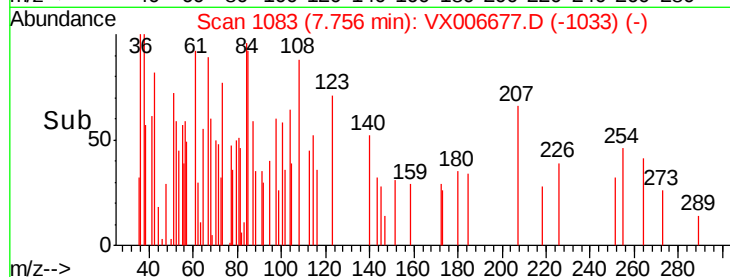
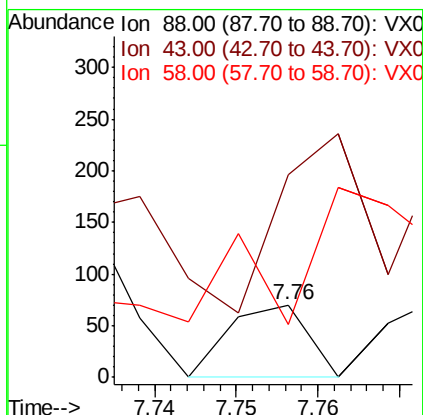
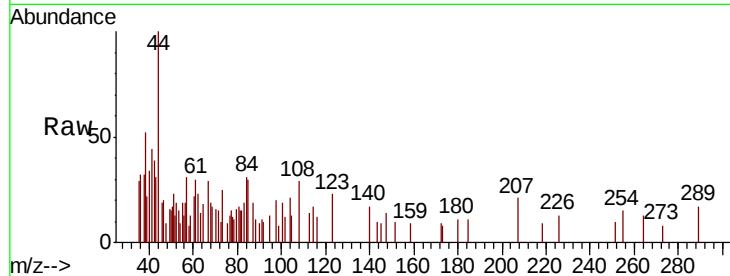




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006677.D
Acq: 20 Dec 2018 15:47

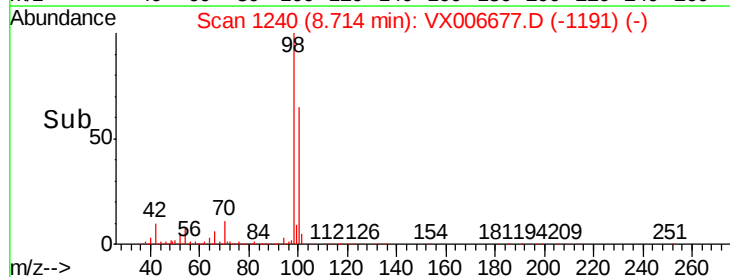
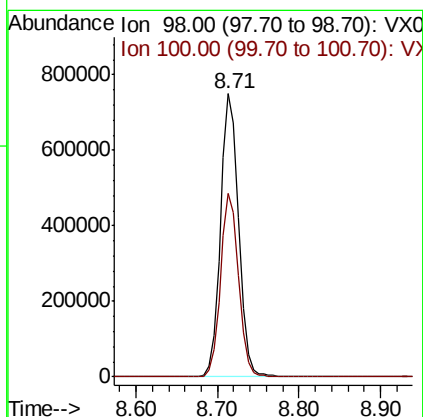
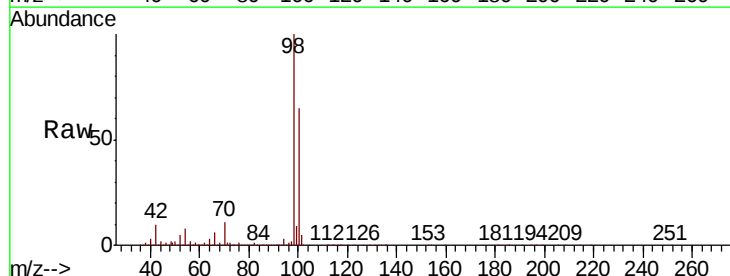
Instrument :
MSVOA_X
ClientSampleId :
971-MW-15(17)

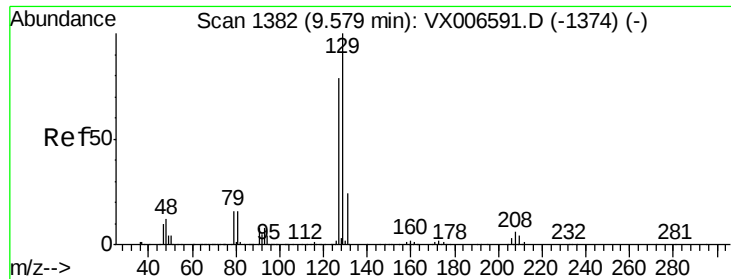
Tot Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 270.2 22.2 33.4#
58 438.3 51.0 76.4#



#50
Toluene-d8
Concen: 49.663 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006677.D
Acq: 20 Dec 2018 15:47

Tgt Ion: 98 Resp: 1160129
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0





#60

Dibromochloromethane

Concen: 2.341 ug/l

RT: 9.42 min Scan# 1356

Delta R.T. -0.16 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

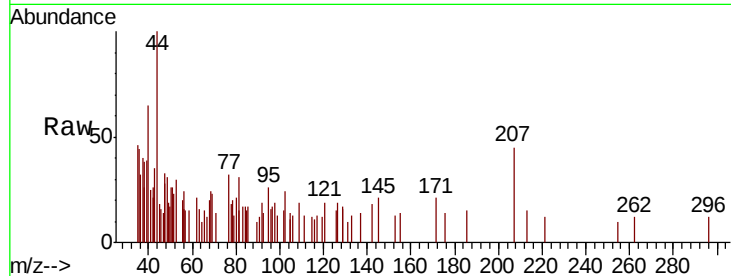
971-MW-15(17)

Tot Ion:129 Resp: 117

Ion Ratio Lower Upper

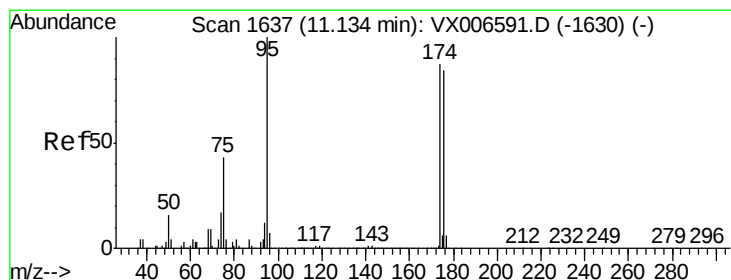
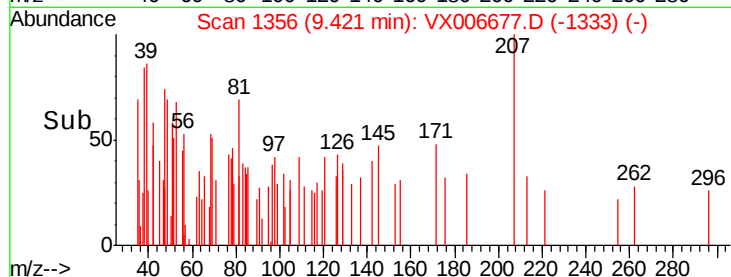
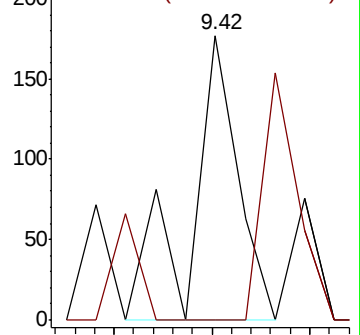
129 100

127 65.8 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: 48.444 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

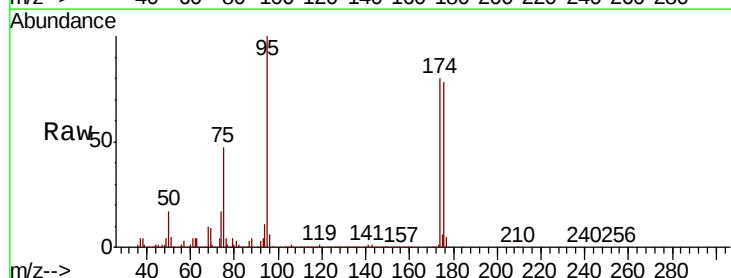
Tgt Ion: 95 Resp: 414460

Ion Ratio Lower Upper

95 100

174 87.8 0.0 182.2

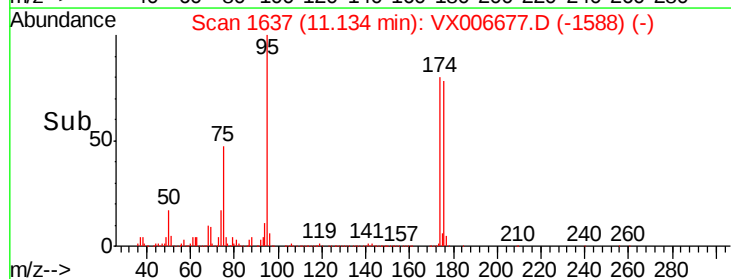
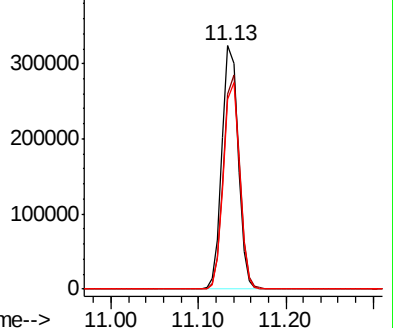
176 84.8 0.0 178.8

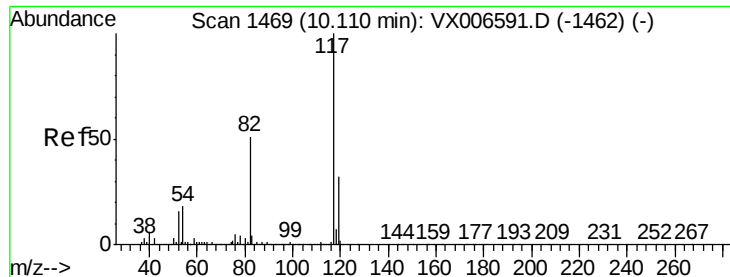


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

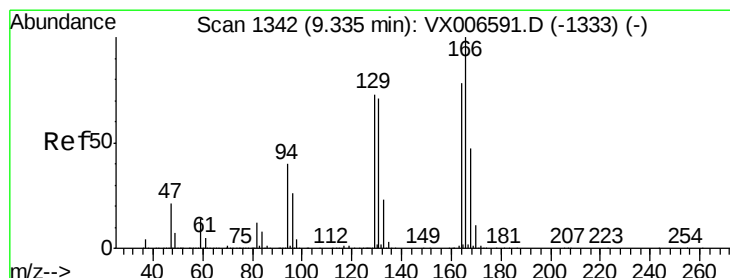
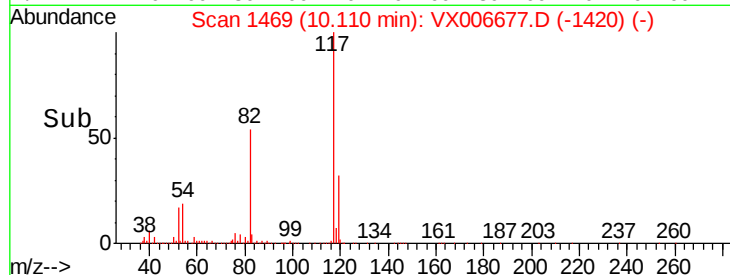
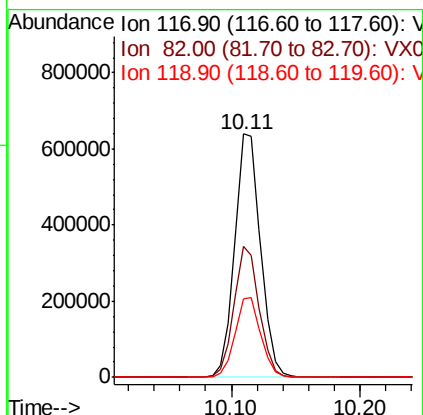
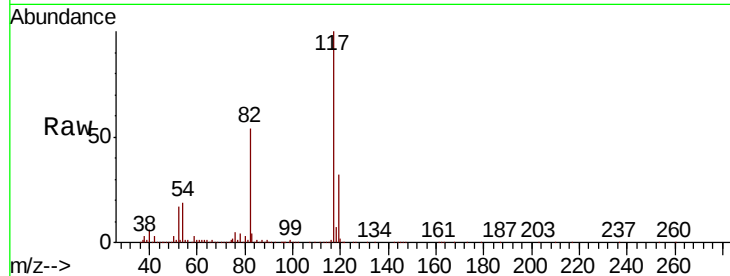




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006677.D
Acq: 20 Dec 2018 15:47

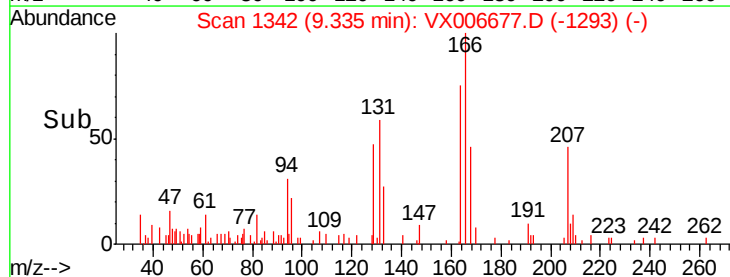
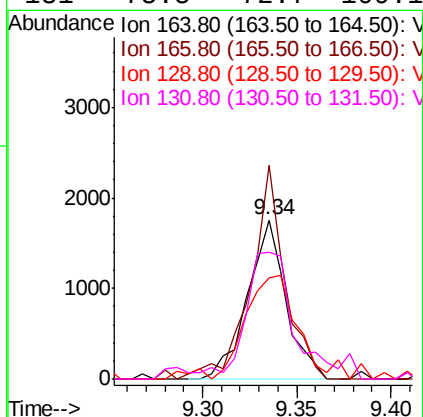
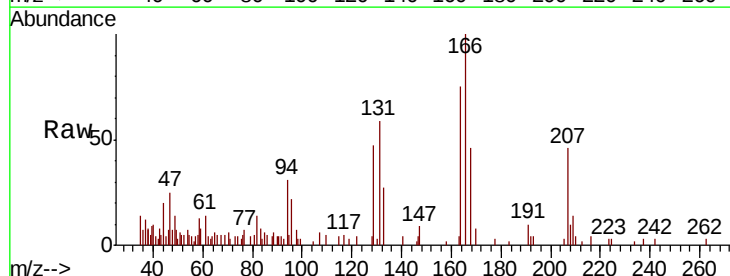
Instrument :
MSVOA_X
ClientSampleId :
971-MW-15(17)

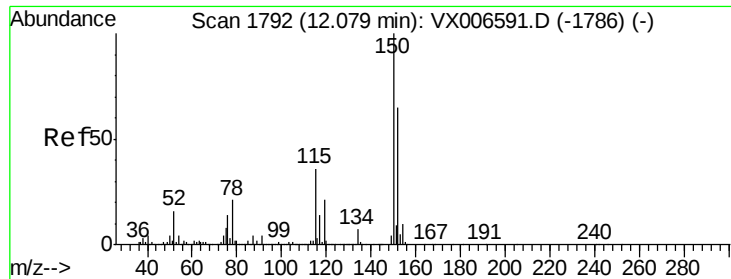
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	41.0	61.6
119	32.5	25.4	38.0



#64
Tetrachloroethene
Concen: 0.350 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006677.D
Acq: 20 Dec 2018 15:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.1	102.5	153.7
129	60.1	75.1	112.7#
131	75.5	72.7	109.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

971-MW-15(17)

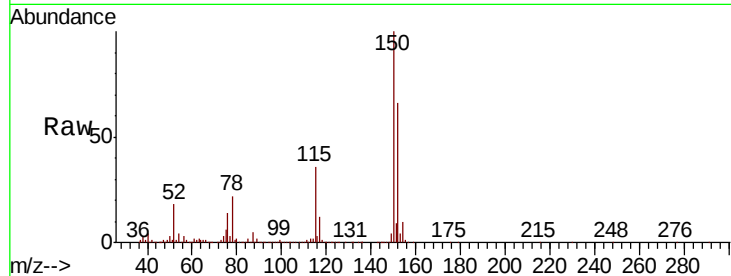
Tot Ion:152 Resp: 426454

Ion Ratio Lower Upper

152 100

115 56.3 39.1 117.2

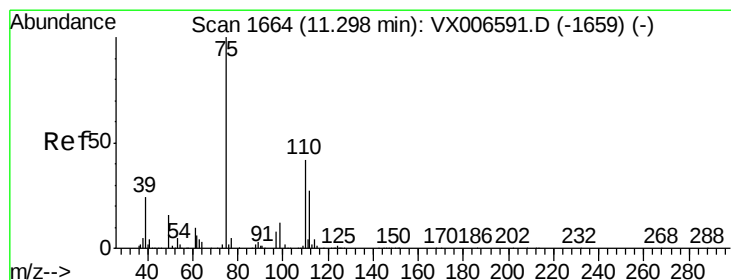
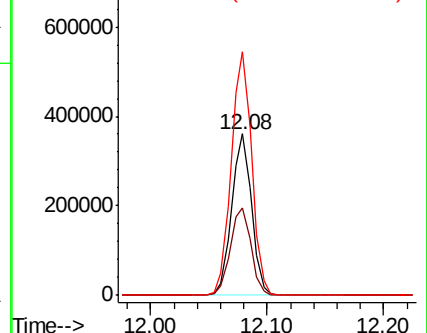
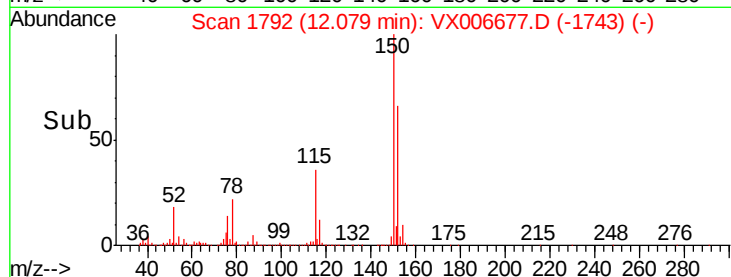
150 154.8 0.0 344.8



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: 24.421 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006677.D

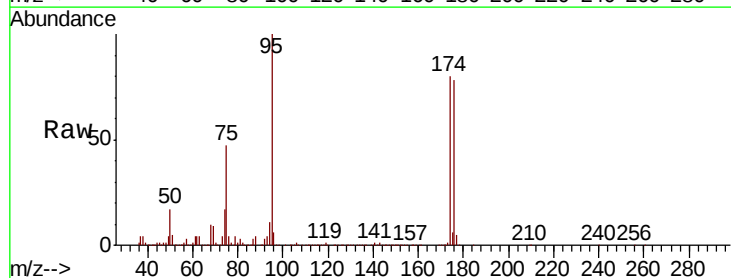
Acq: 20 Dec 2018 15:47

Tgt Ion: 75 Resp: 193544

Ion Ratio Lower Upper

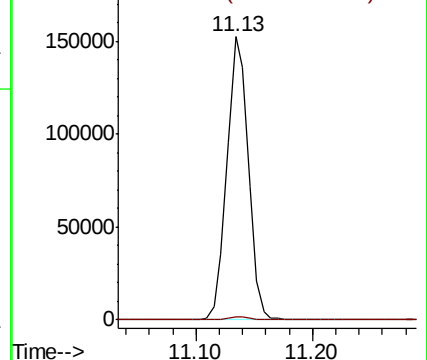
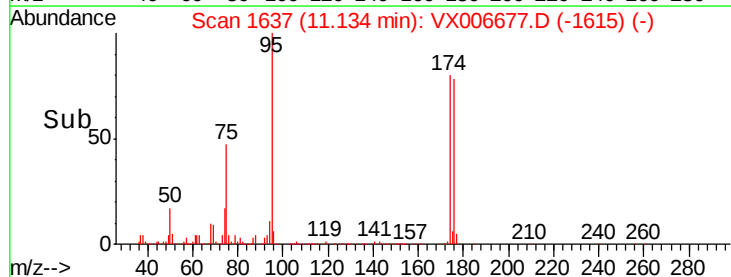
75 100

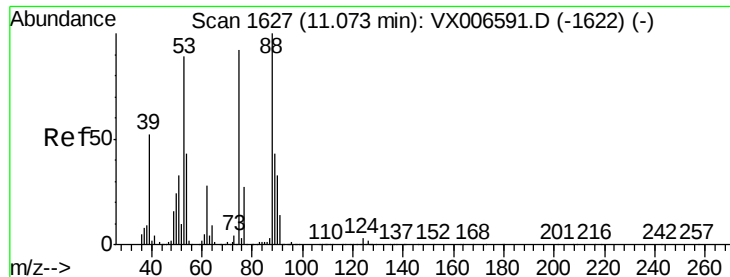
77 1.3 18.5 55.5#



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: 72.261 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006677.D

Acq: 20 Dec 2018 15:47

Instrument :

MSVOA_X

ClientSampleId :

971-MW-15(17)

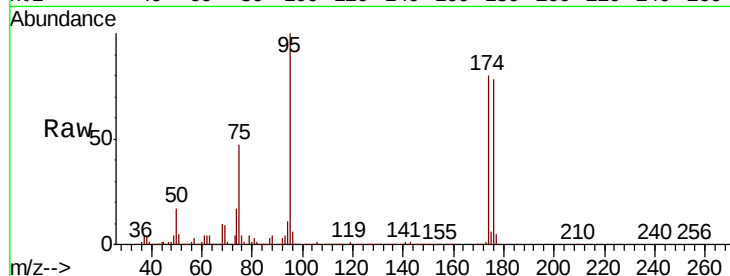
Tot Ion: 75 Resp: 193544

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

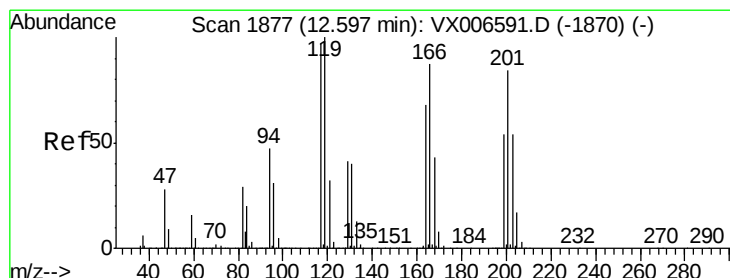
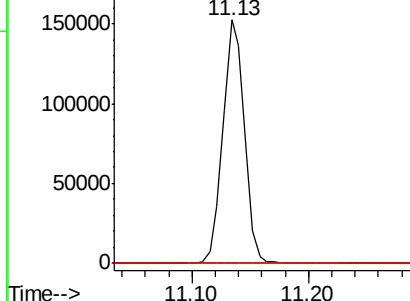
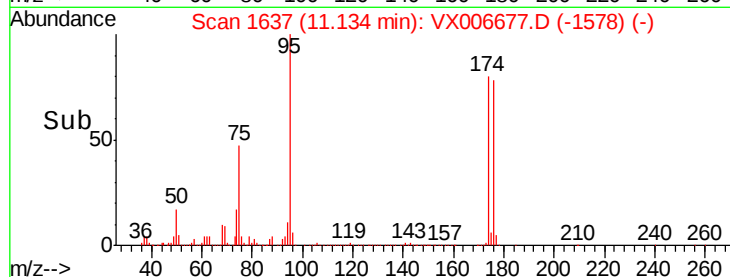
89 0.0 38.0 57.0#



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: 3.300 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006677.D

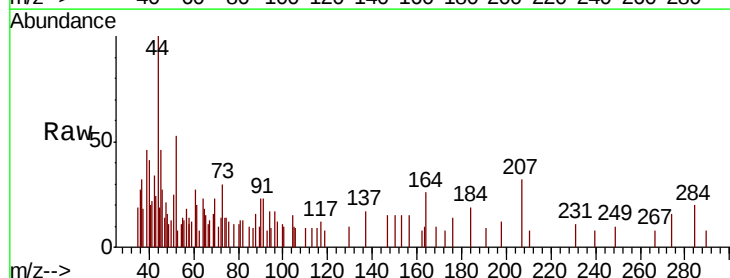
Acq: 20 Dec 2018 15:47

Tgt Ion:117 Resp: 30

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

