

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062218\
 Data File : VX002848.D
 Acq On : 22 Jun 2018 23:05
 Operator : JC/MD
 Sample : J3631-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S83-0018

Quant Time: Jun 23 00:28:40 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	244192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	339651	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	183151	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	164737	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	
35) Dibromofluoromethane	5.51	113	128500	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
50) Toluene-d8	8.72	98	479676	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
62) 4-Bromofluorobenzene	11.14	95	172429	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1452	0.75	ug/l #	70
6) Chloroethane	1.70	64	439	0.21	ug/l #	44
10) Methyl Iodide	2.51	142	1575	5.54	ug/l #	84
11) Tert butyl alcohol	3.03	59	1184	1.54	ug/l	96
13) Acrolein	2.29	56	140	7.24	ug/l	89
16) Acetone	2.45	43	8287	5.06	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	1126	0.38	ug/l #	77
27) cis-1,2-Dichloroethene	4.61	96	857	0.28	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16909	4.69	ug/l #	51
38) Carbon Tetrachloride	5.67	117	22308	6.21	ug/l #	16
39) Methylcyclohexane	7.46	83	895	0.21	ug/l #	75
40) Benzene	6.15	78	4182	0.39	ug/l #	87
44) Trichloroethene	7.21	130	3913	1.25	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	44	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.06	75	56	3.22	ug/l #	48
60) Dibromochloromethane	9.34	129	293	3.85	ug/l #	11
67) Ethyl Benzene	10.26	91	5907	0.45	ug/l	97
68) m/p-Xylenes	10.36	106	3532	0.70	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	89660	25.94	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	2310	0.22	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.14	75	89660	80.25	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	5349	0.51	ug/l	92
90) Hexachloroethane	12.61	117	277	2.77	ug/l #	1
95) Naphthalene	13.83	128	3035	0.25	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

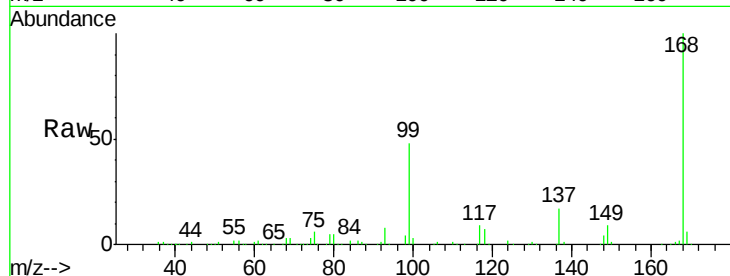
S83-0018

Tot Ion:168 Resp: 244192

Ion Ratio Lower Upper

168 100

99 48.5 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

80000

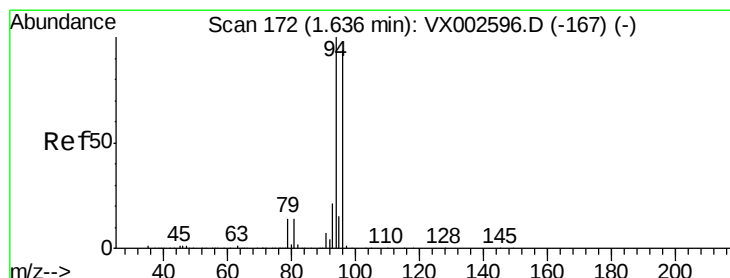
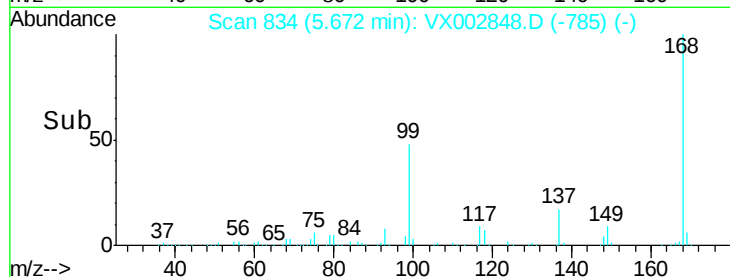
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.75 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002848.D

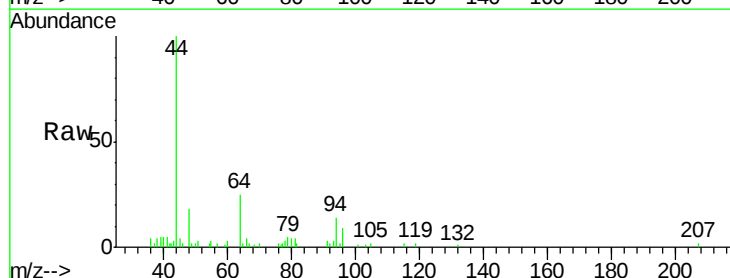
Acq: 22 Jun 2018 23:05

Tgt Ion: 94 Resp: 1452

Ion Ratio Lower Upper

94 100

96 65.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

600

500

400

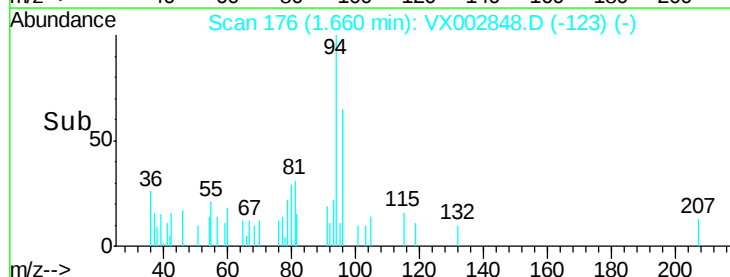
300

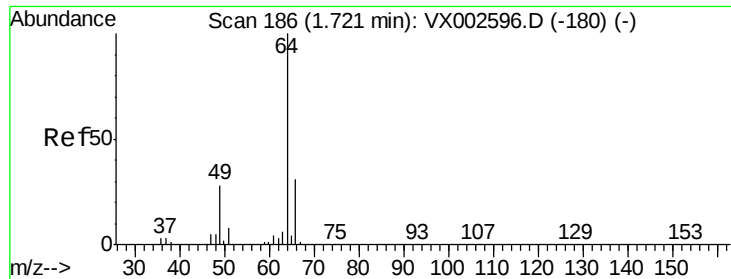
200

100

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.21 ug/l

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

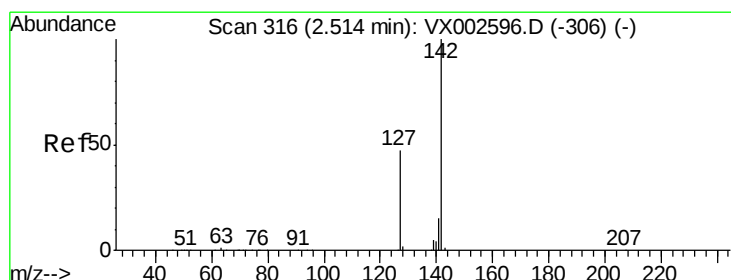
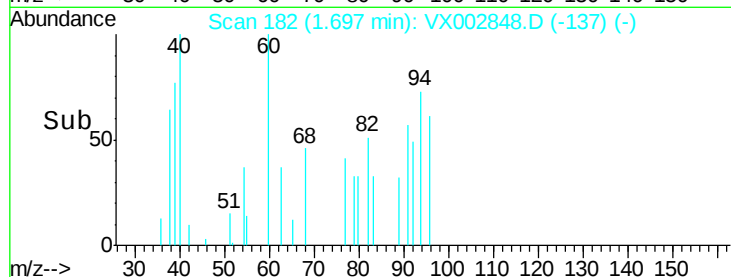
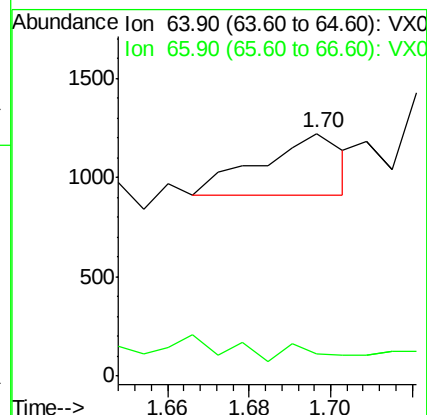
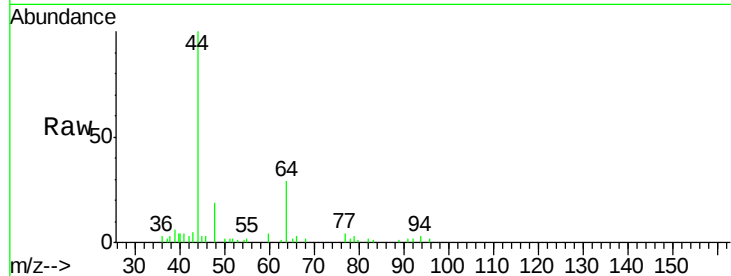
S83-0018

Tot Ion: 64 Resp: 439

Ion Ratio Lower Upper

64 100

66 1.0 25.5 38.3#



#10

Methyl Iodide

Concen: 5.54 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

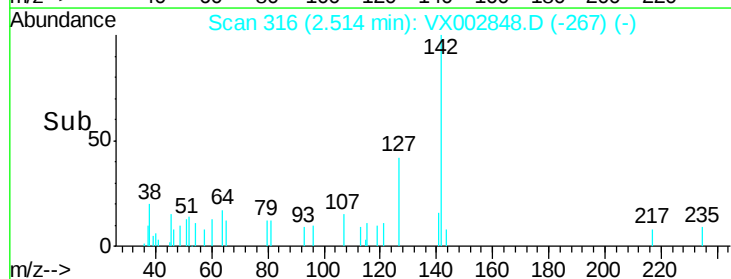
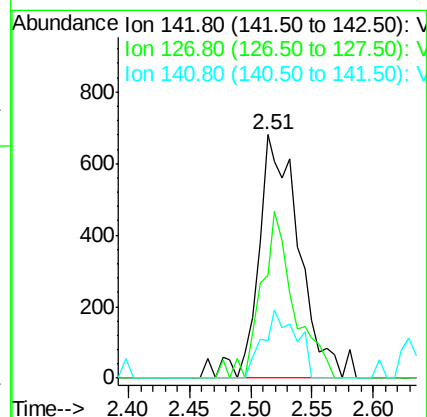
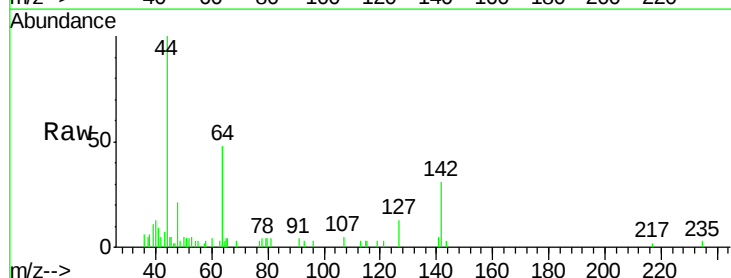
Tgt Ion:142 Resp: 1575

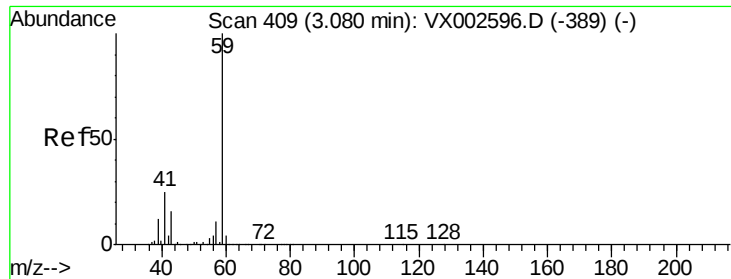
Ion Ratio Lower Upper

142 100

127 54.8 36.6 55.0

141 23.0 11.3 16.9#



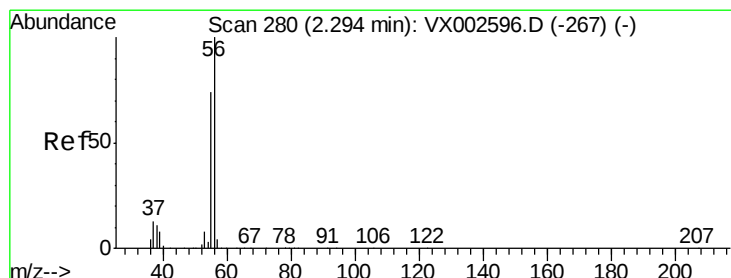
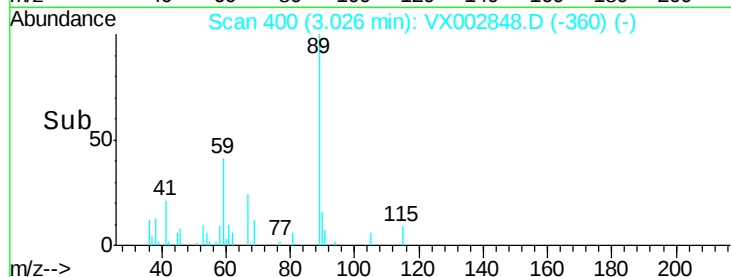
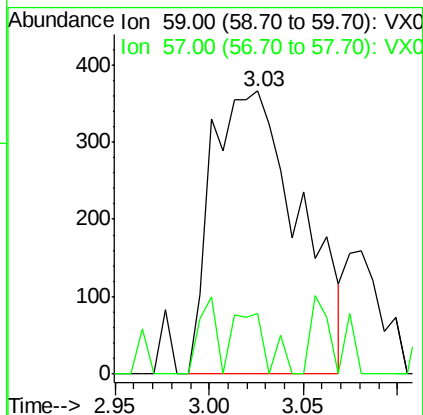
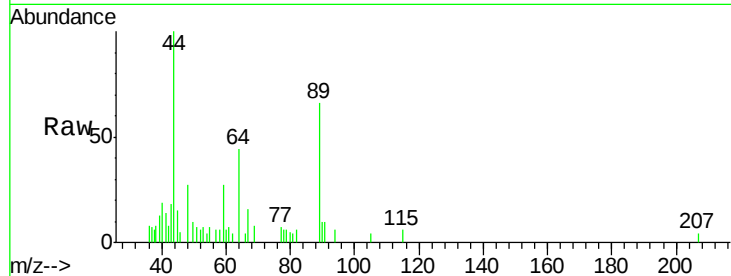


#11

Tert butvl alcohol
 Concen: 1.54 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.05 min
 Lab File: VX002848.D
 Acq: 22 Jun 2018 23:05

Instrument :
 MSVOA_X
 ClientSampled :
 S83-0018

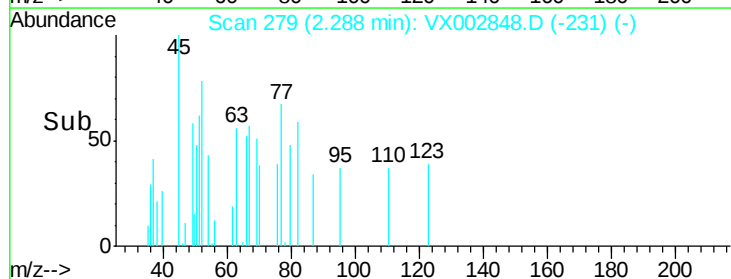
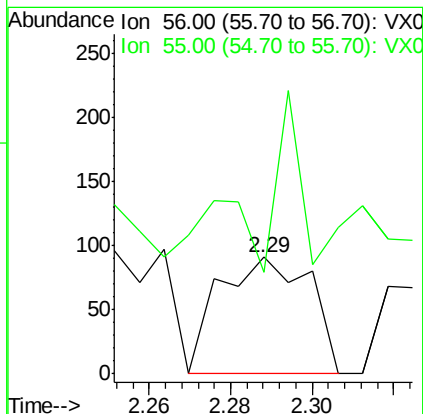
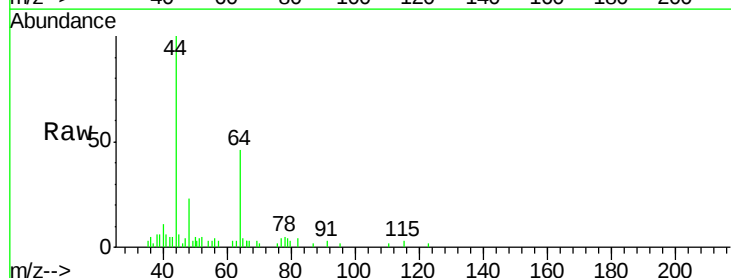
Tot Ion: 59 Resp: 1184
 Ion Ratio Lower Upper
 59 100
 57 8.6 8.2 12.2

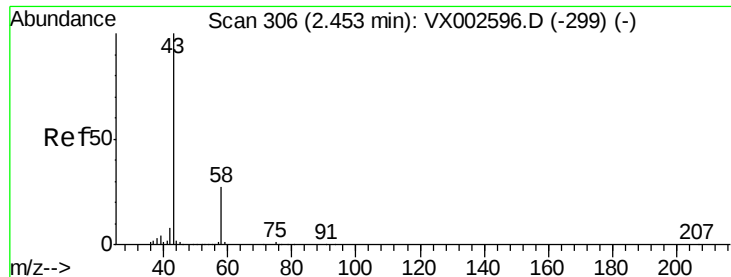


#13

Acrolein
 Concen: 7.24 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX002848.D
 Acq: 22 Jun 2018 23:05

Tgt Ion: 56 Resp: 140
 Ion Ratio Lower Upper
 56 100
 55 62.1 57.0 85.4





#16

Acetone

Concen: 5.06 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampled :

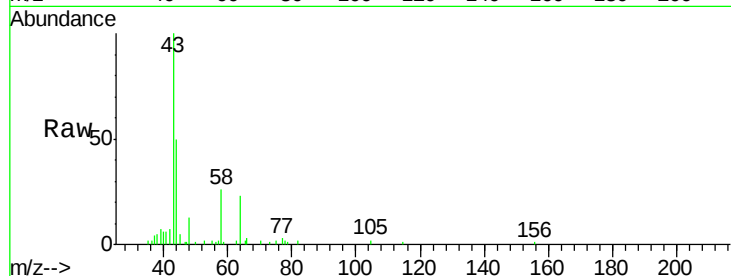
S83-0018

Tot Ion: 43 Resp: 8287

Ion Ratio Lower Upper

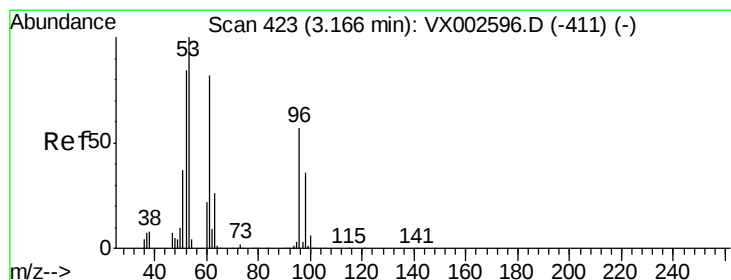
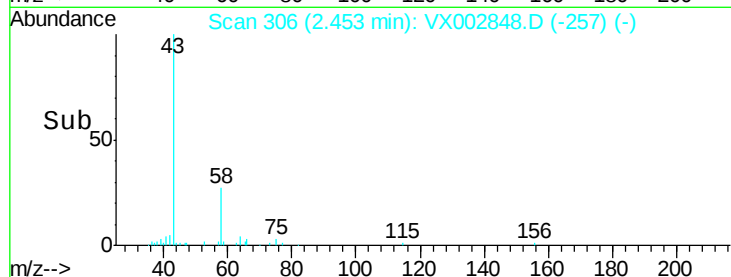
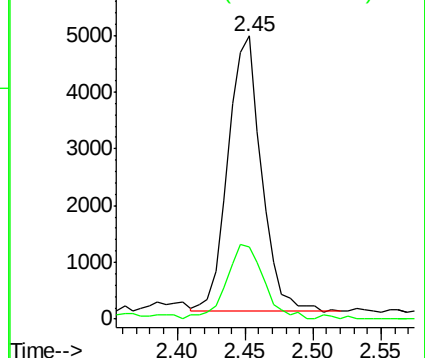
43 100

58 26.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.38 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

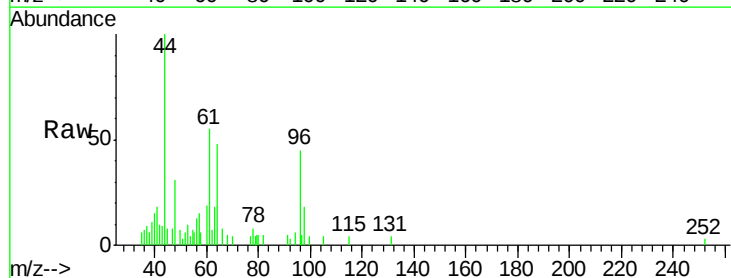
Tgt Ion: 96 Resp: 1126

Ion Ratio Lower Upper

96 100

61 121.9 117.0 175.4

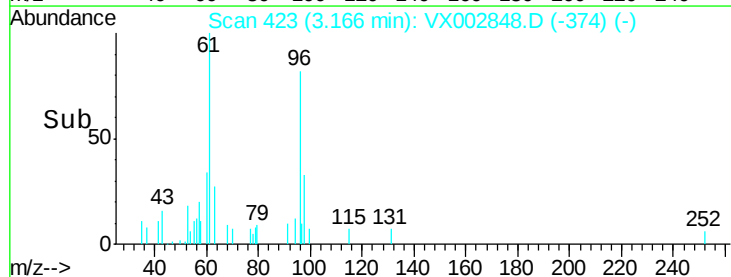
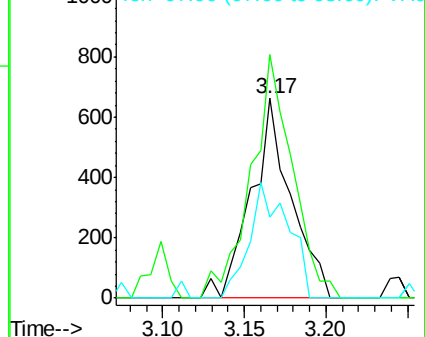
98 40.8 52.4 78.6#

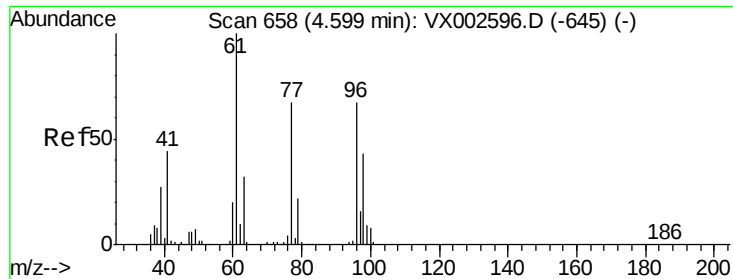


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.28 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

S83-0018

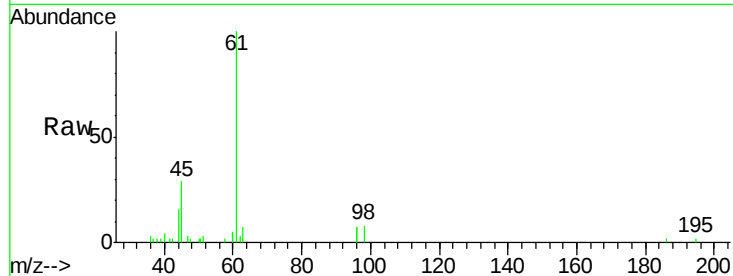
Tot Ion: 96 Resp: 857

Ion Ratio Lower Upper

96 100

61 1327.7 0.0 330.2#

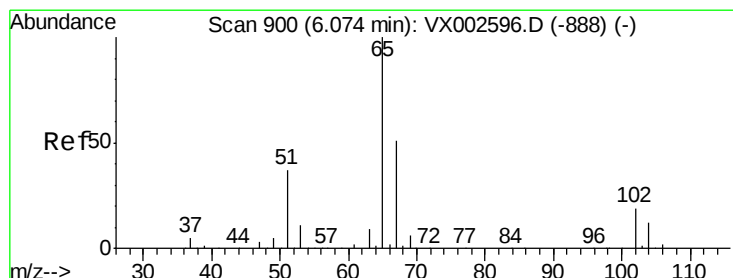
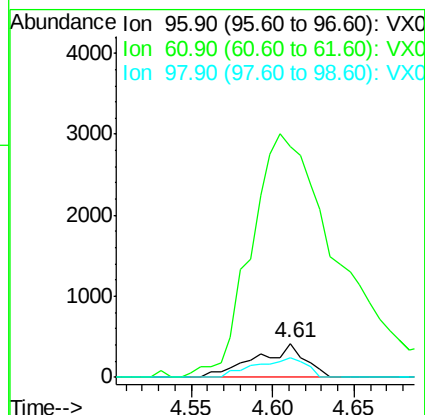
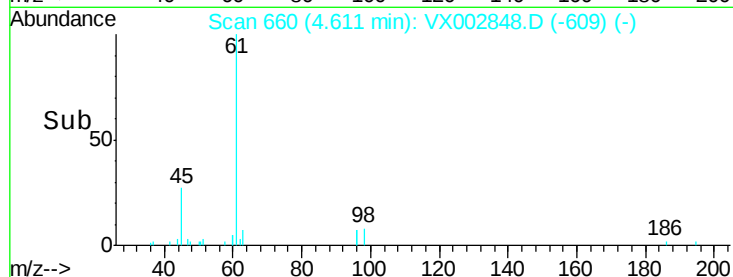
98 59.9 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 44.39 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002848.D

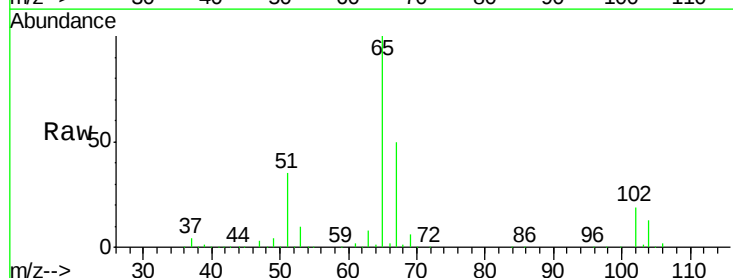
Acq: 22 Jun 2018 23:05

Tgt Ion: 65 Resp: 164737

Ion Ratio Lower Upper

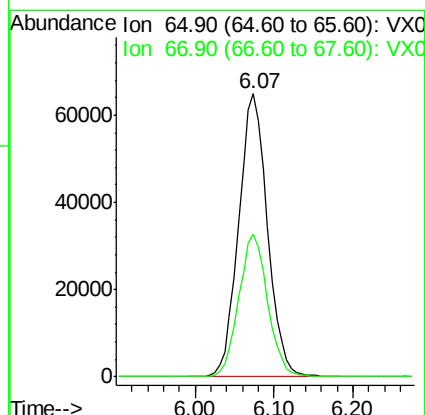
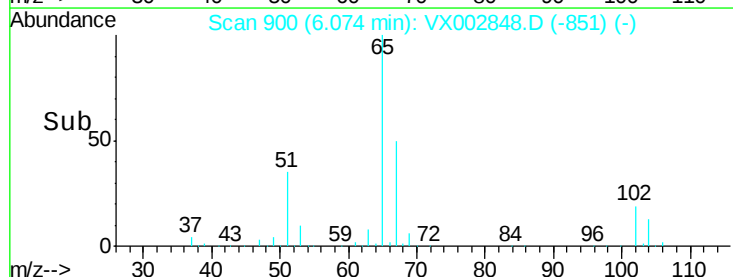
65 100

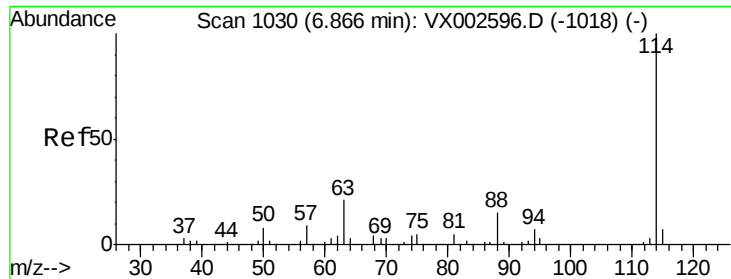
67 50.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

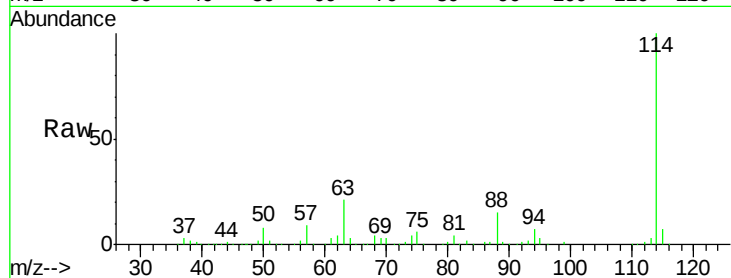




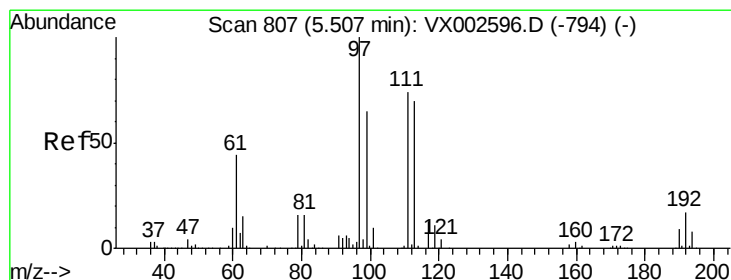
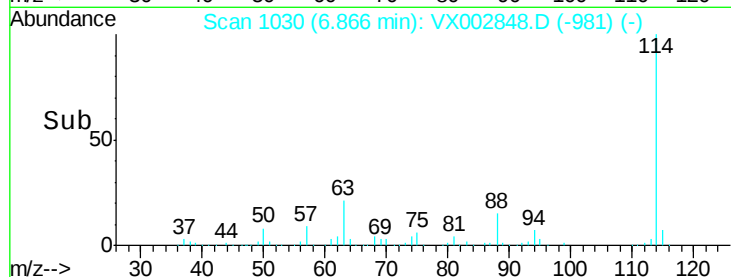
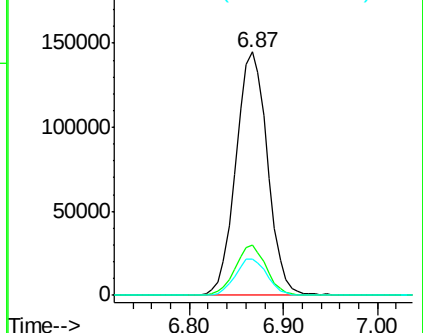
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002848.D
 Acq: 22 Jun 2018 23:05

Instrument :
 MSVOA_X
 ClientSampleId :
 S83-0018

Tot Ion:114 Resp: 339651
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 14.8 0.0 30.0

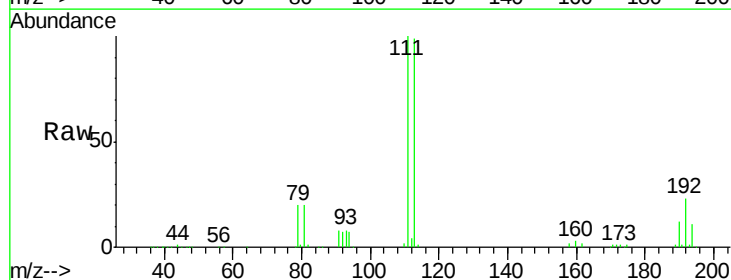


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

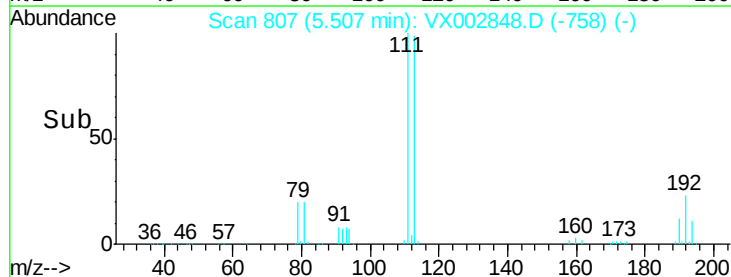
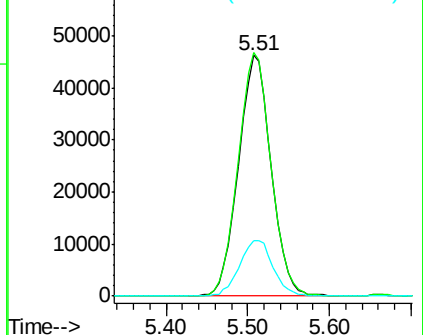


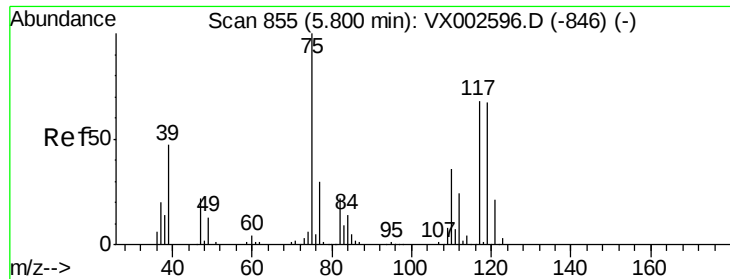
#35
 Dibromofluoromethane
 Concen: 47.40 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002848.D
 Acq: 22 Jun 2018 23:05

Tgt Ion:113 Resp: 128500
 Ion Ratio Lower Upper
 113 100
 111 101.8 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

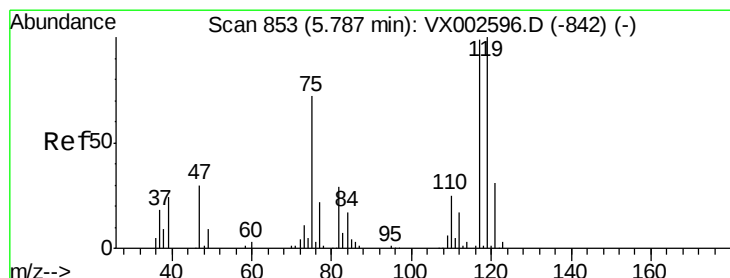
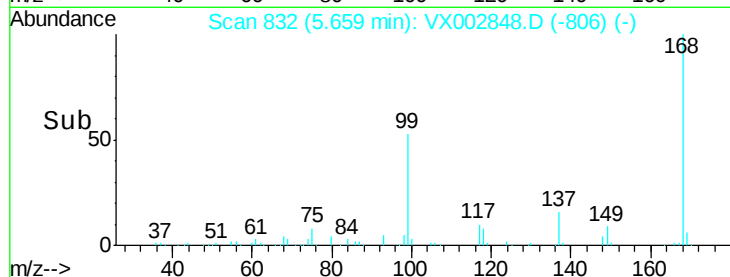
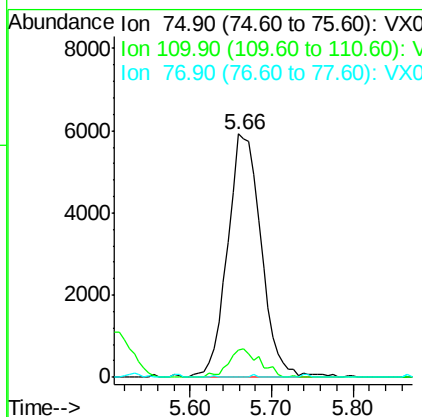
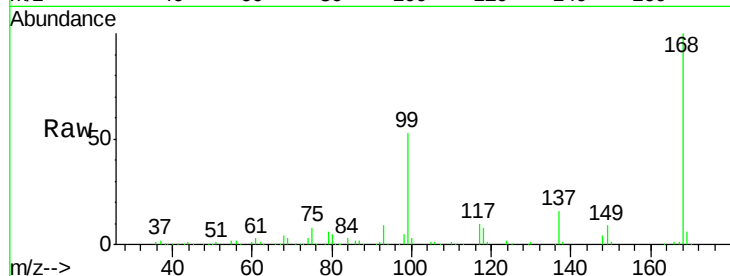




#36
 1,1-Dichloropropene
 Concen: 4.69 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX002848.D
 Acq: 22 Jun 2018 23:05

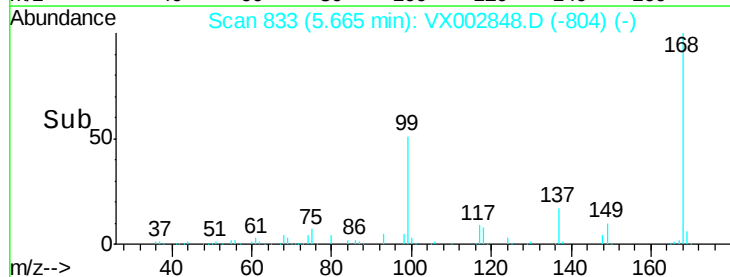
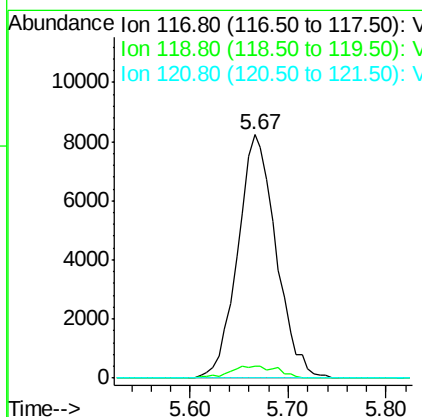
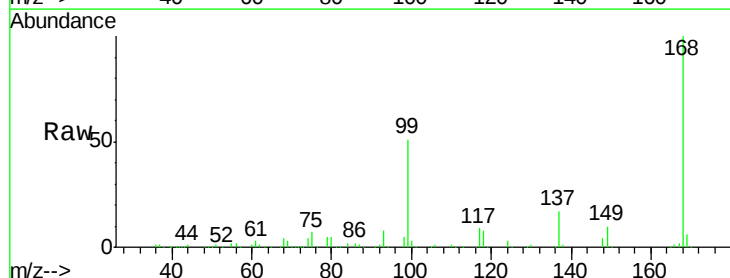
Instrument :
 MSVOA_X
 ClientSampleId :
 S83-0018

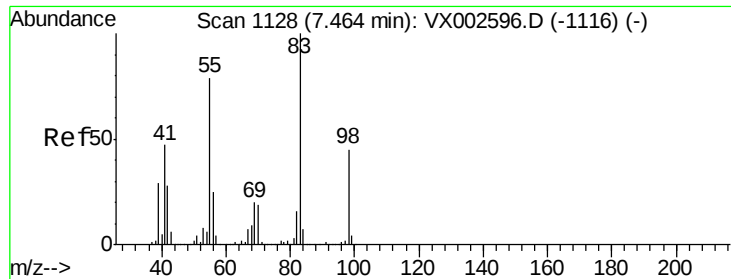
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.4#
77	0.2	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 6.21 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002848.D
 Acq: 22 Jun 2018 23:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.4	116.0#
121	0.0	24.4	36.6#

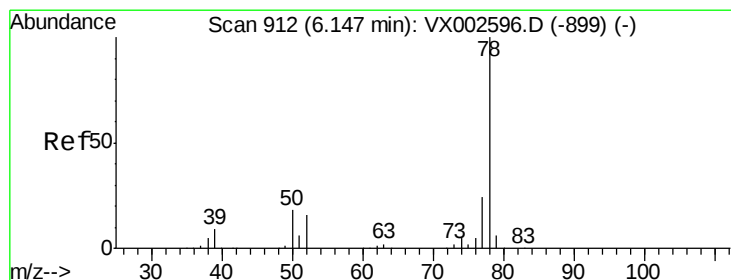
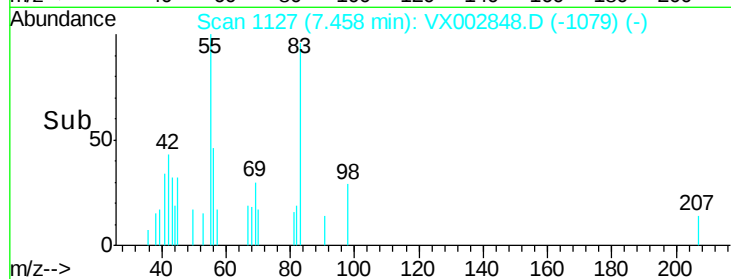
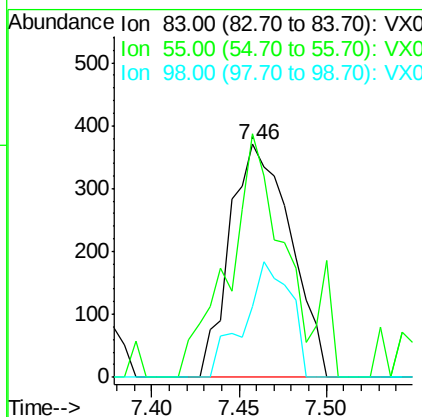
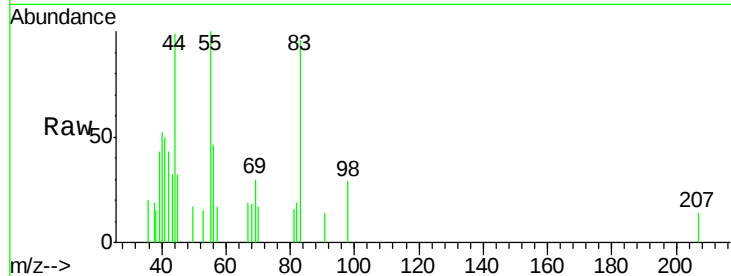




#39
Methvlcvclohexane
Concen: 0.21 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002848.D
Acq: 22 Jun 2018 23:05

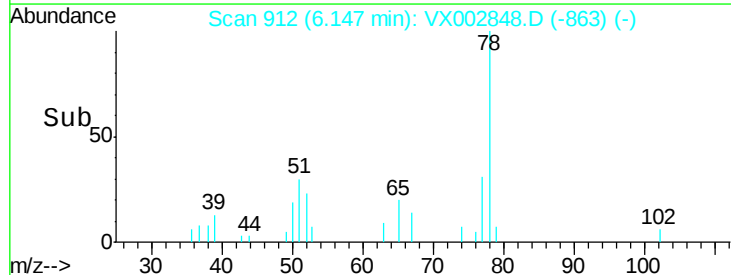
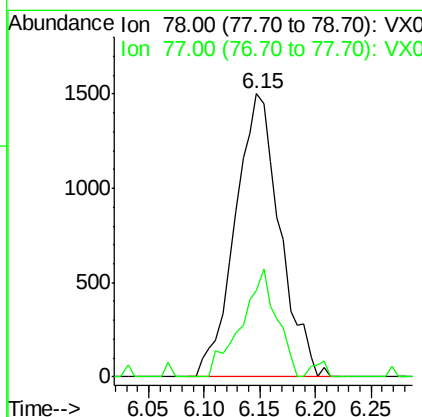
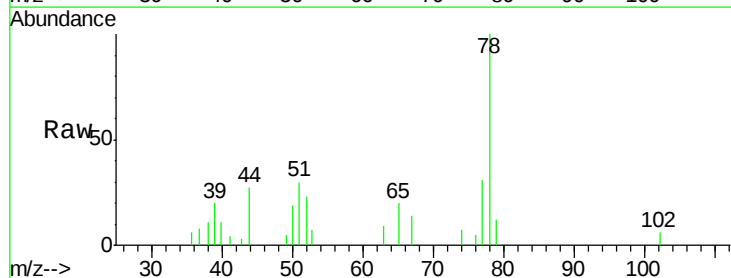
Instrument :
MSVOA_X
ClientSampleId :
S83-0018

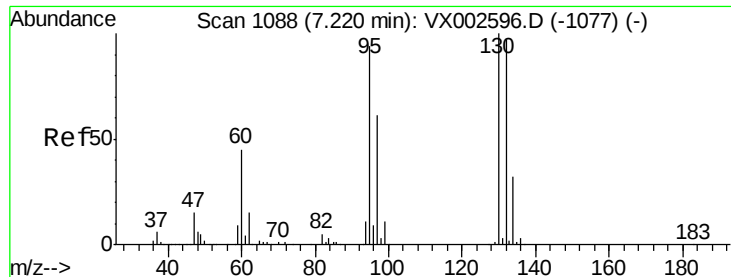
Tot Ion: 83 Resp: 895
Ion Ratio Lower Upper
83 100
55 104.6 65.4 98.0#
98 30.3 37.4 56.0#



#40
Benzene
Concen: 0.39 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX002848.D
Acq: 22 Jun 2018 23:05

Tgt Ion: 78 Resp: 4182
Ion Ratio Lower Upper
78 100
77 30.5 19.1 28.7#





#44

Trichloroethene

Concen: 1.25 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

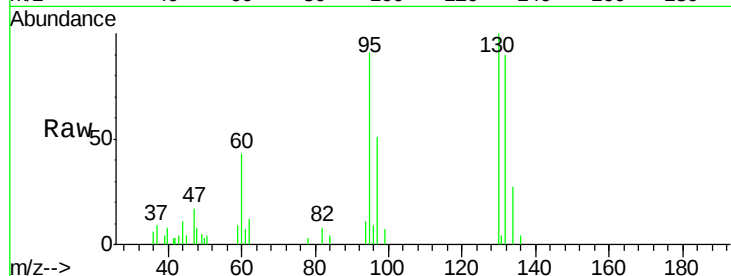
S83-0018

Tot Ion:130 Resp: 3913

Ion Ratio Lower Upper

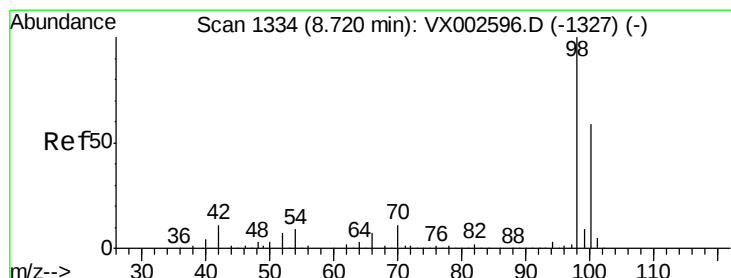
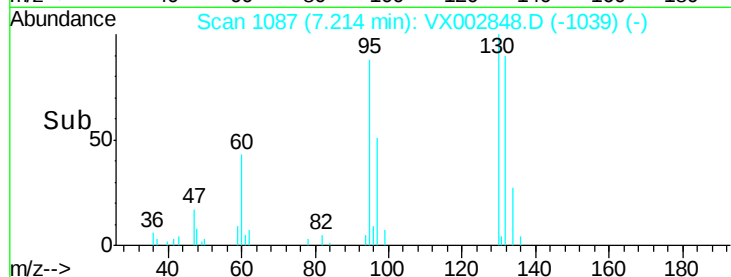
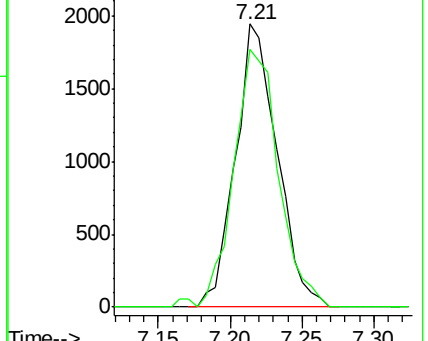
130 100

95 91.1 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 46.60 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002848.D

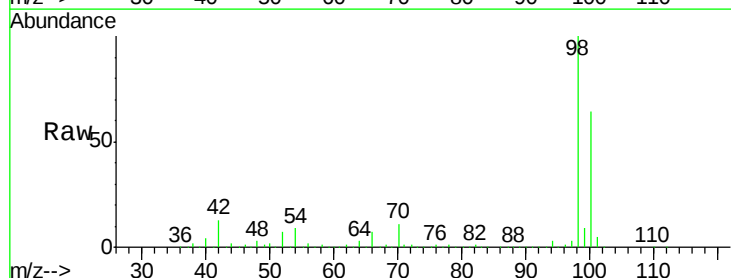
Acq: 22 Jun 2018 23:05

Tgt Ion: 98 Resp: 479676

Ion Ratio Lower Upper

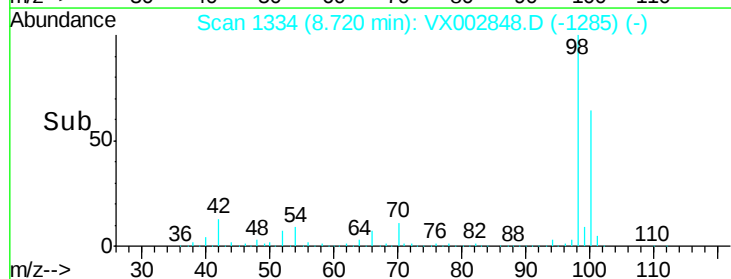
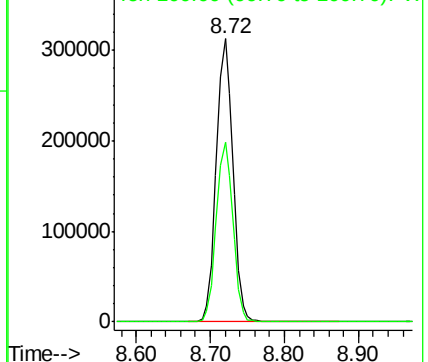
98 100

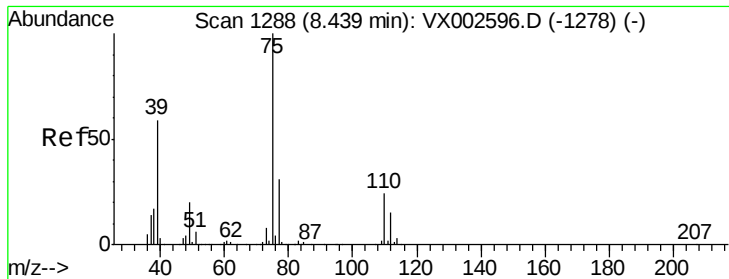
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampled :

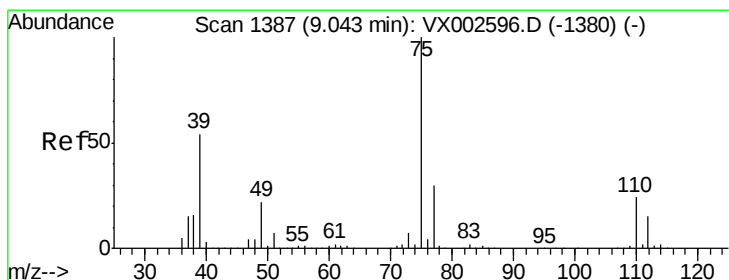
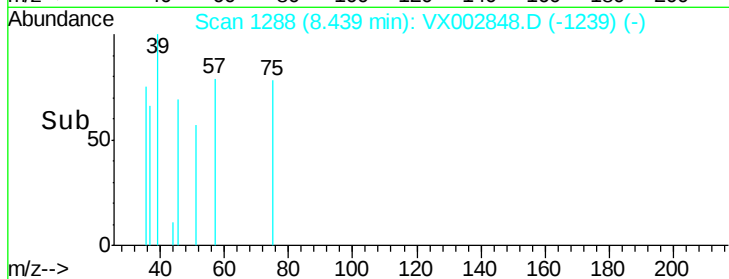
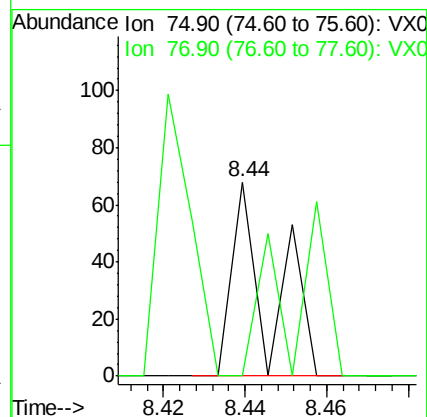
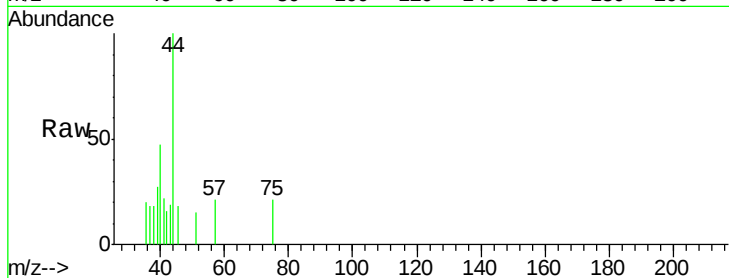
S83-0018

Tot Ion: 75 Resp: 44

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.06 min Scan# 1389

Delta R.T. 0.01 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

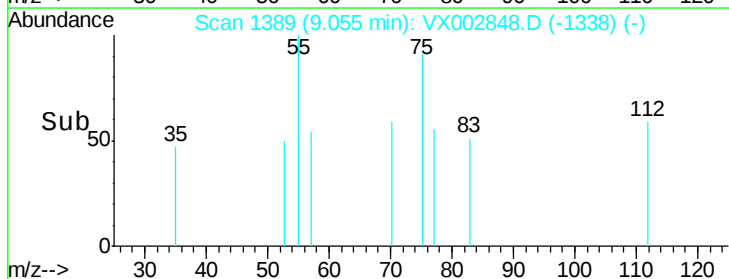
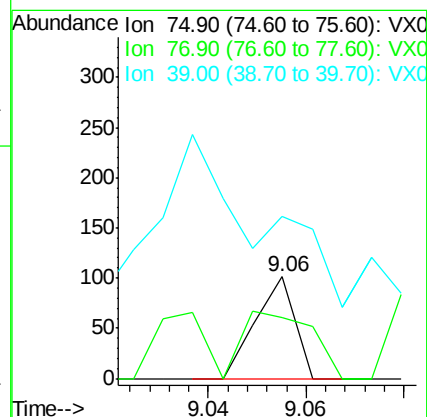
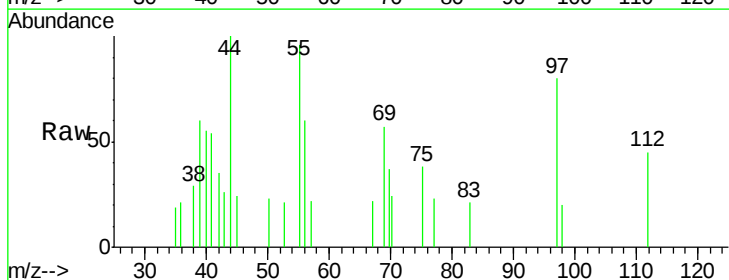
Tgt Ion: 75 Resp: 56

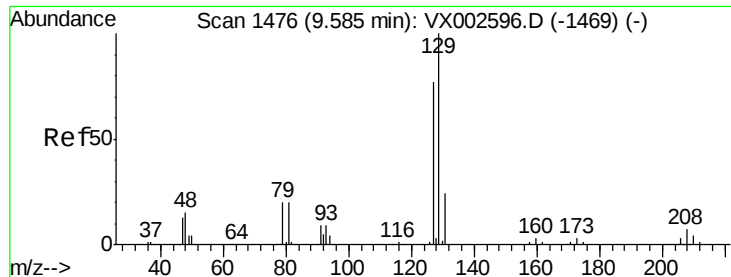
Ion Ratio Lower Upper

75 100

77 60.4 24.8 37.2#

39 89.1 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.85 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

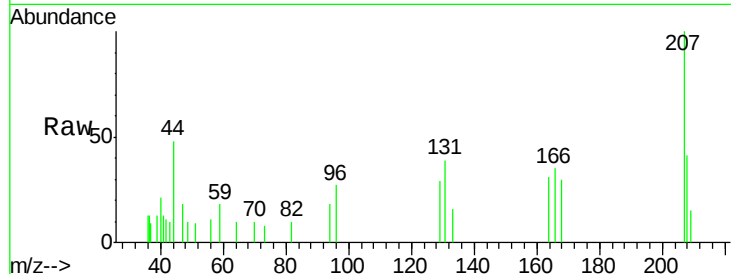
S83-0018

Tot Ion:129 Resp: 293

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

9.34

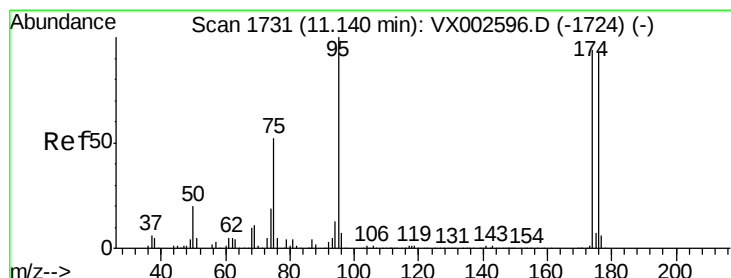
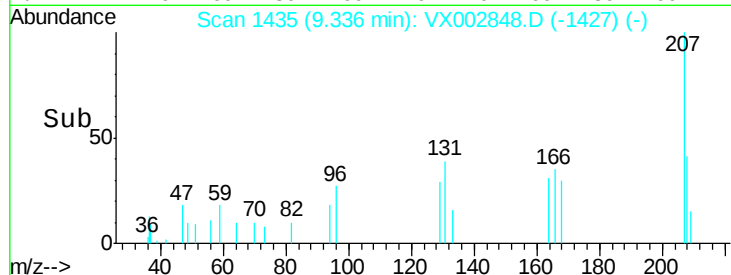
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

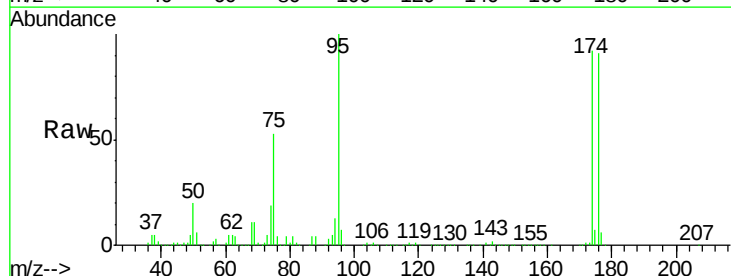
Tgt Ion: 95 Resp: 172429

Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.4

176 92.4 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

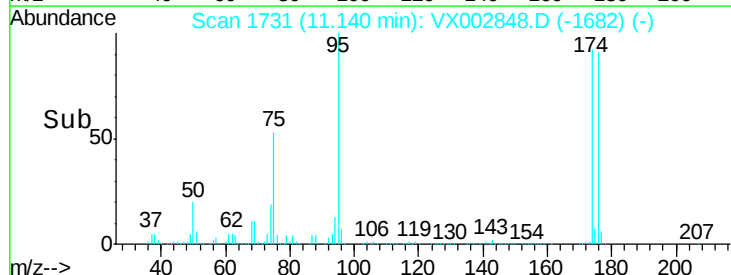
150000

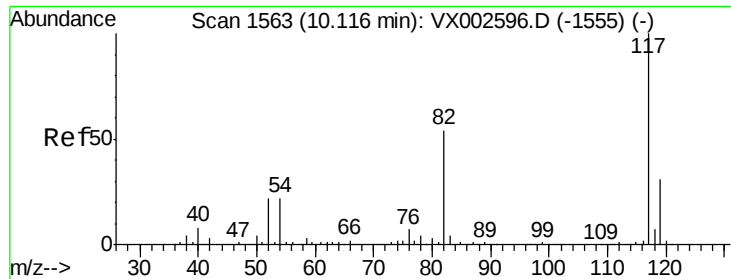
100000

50000

0

Time-->

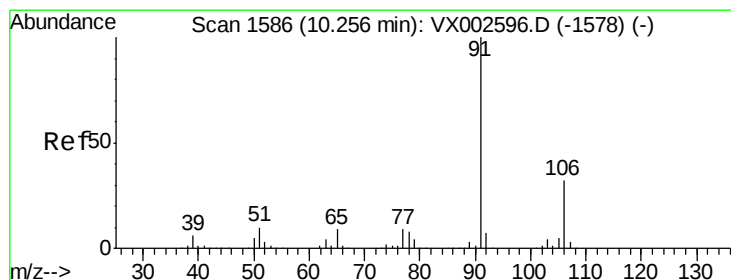
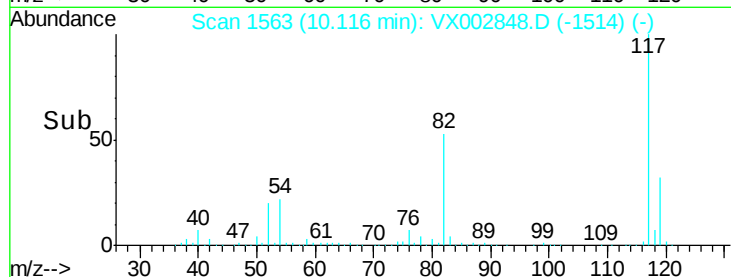
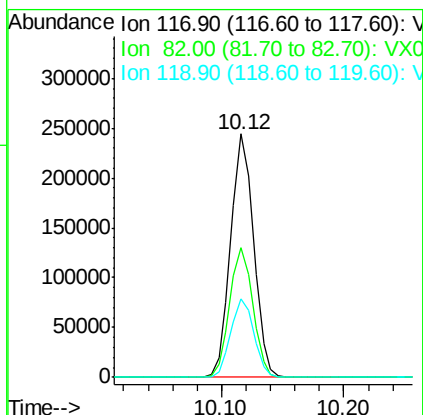
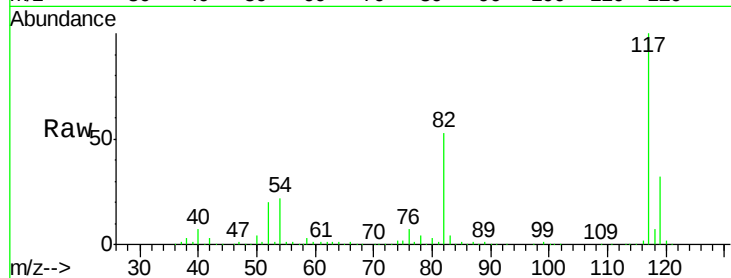




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002848.D
Acq: 22 Jun 2018 23:05

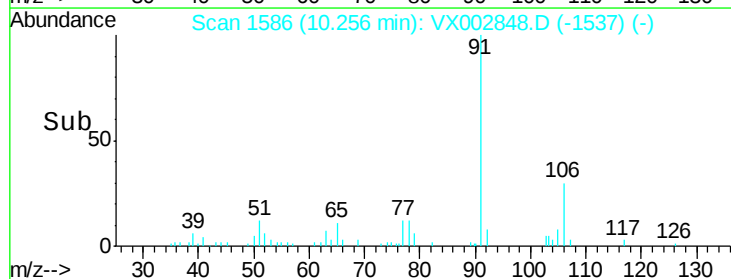
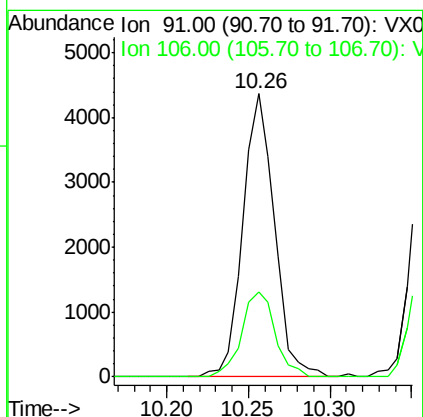
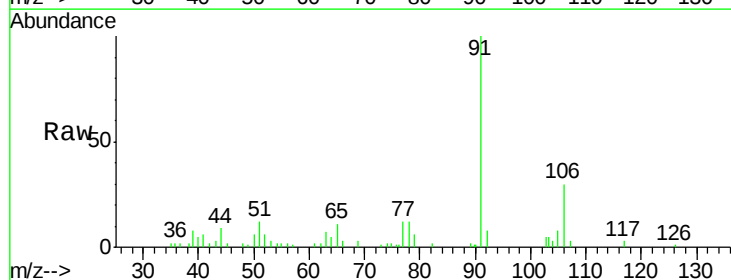
Instrument :
MSVOA_X
ClientSampleId :
S83-0018

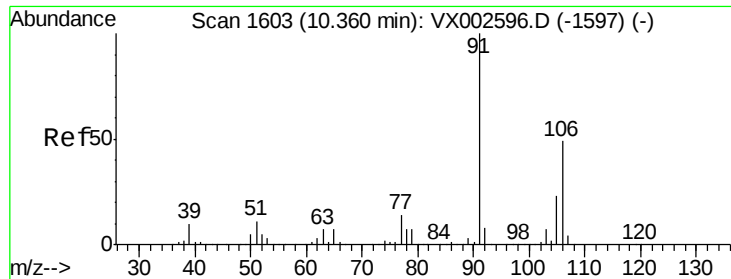
Tot Ion:117 Resp: 317279
Ion Ratio Lower Upper
117 100
82 53.1 45.0 67.4
119 32.1 25.8 38.6



#67
Ethyl Benzene
Concen: 0.45 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX002848.D
Acq: 22 Jun 2018 23:05

Tgt Ion: 91 Resp: 5907
Ion Ratio Lower Upper
91 100
106 30.1 25.5 38.3

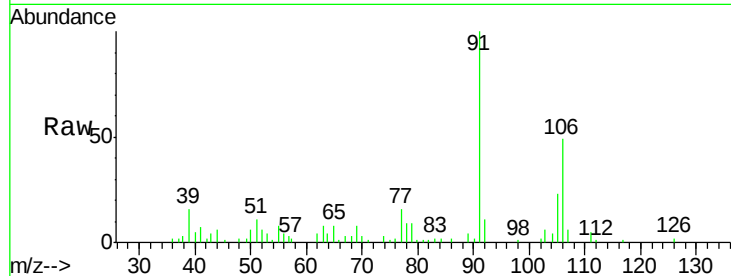




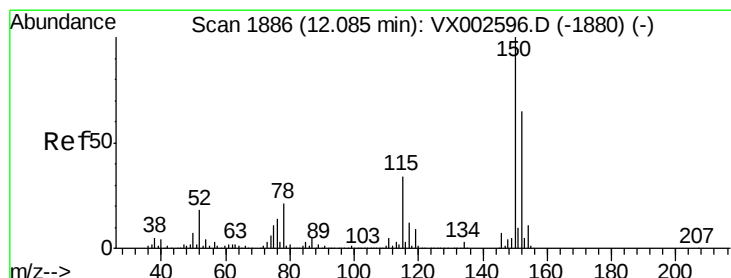
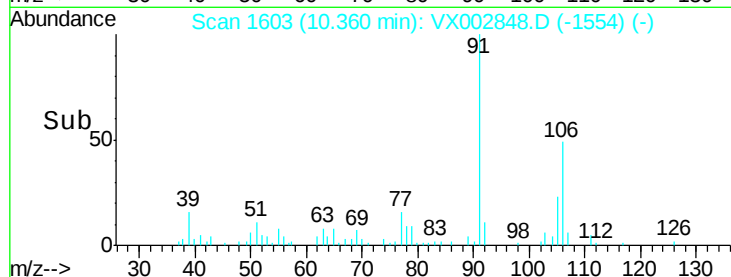
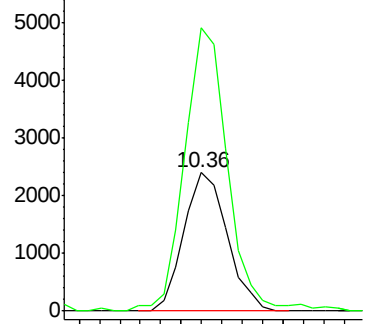
#68
m/p-Xvlenes
Concen: 0.70 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX002848.D
Acq: 22 Jun 2018 23:05

Instrument :
MSVOA_X
ClientSampled :
S83-0018

Tot Ion:106 Resp: 3532
Ion Ratio Lower Upper
106 100
91 203.5 163.4 245.2

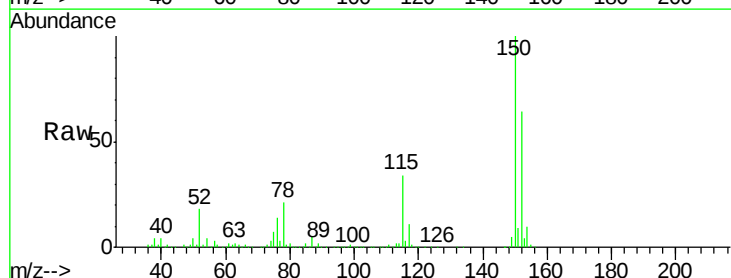


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

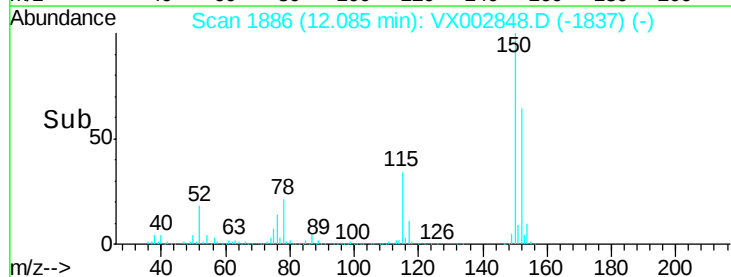
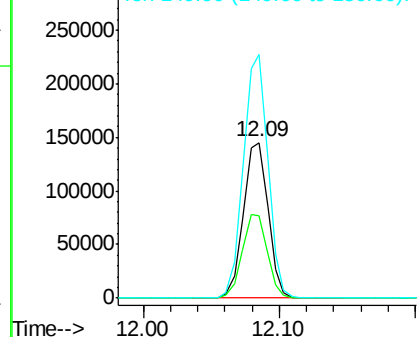


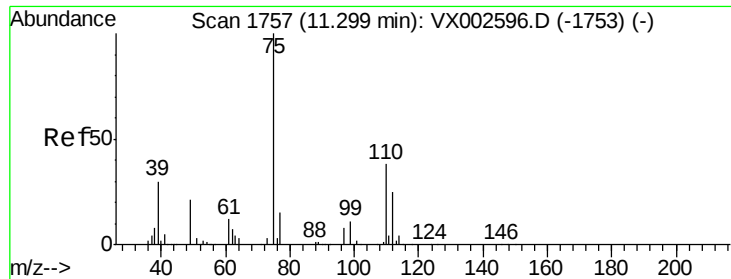
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002848.D
Acq: 22 Jun 2018 23:05

Tgt Ion:152 Resp: 183151
Ion Ratio Lower Upper
152 100
115 54.4 40.1 120.2
150 155.6 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampled :

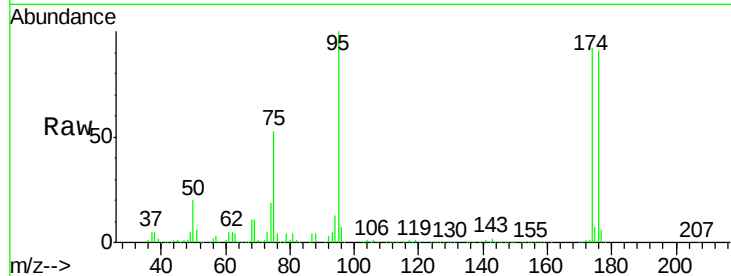
S83-0018

Tot Ion: 75 Resp: 89660

Ion Ratio Lower Upper

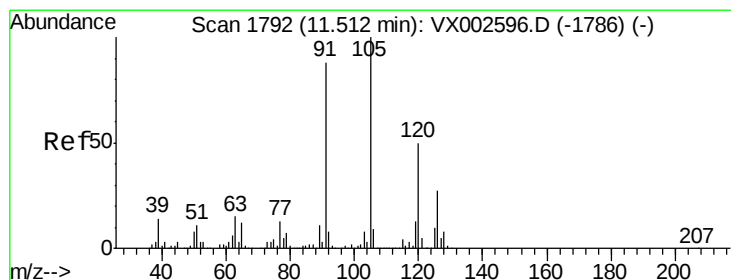
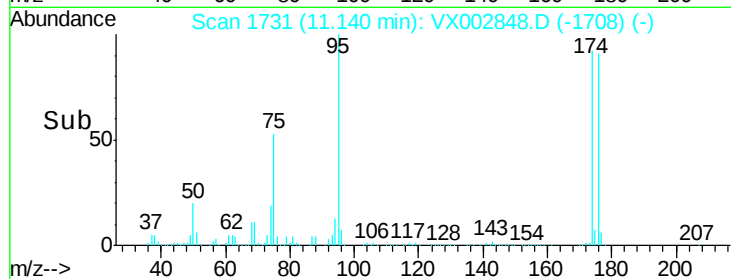
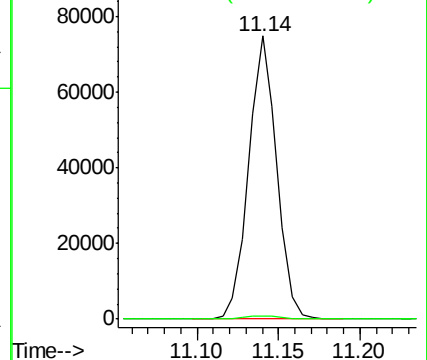
75 100

77 1.5 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX002848.D

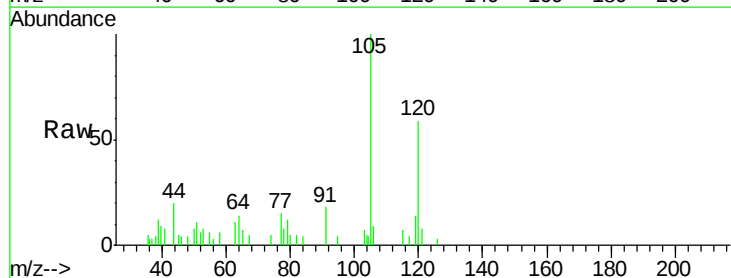
Acq: 22 Jun 2018 23:05

Tgt Ion: 105 Resp: 2310

Ion Ratio Lower Upper

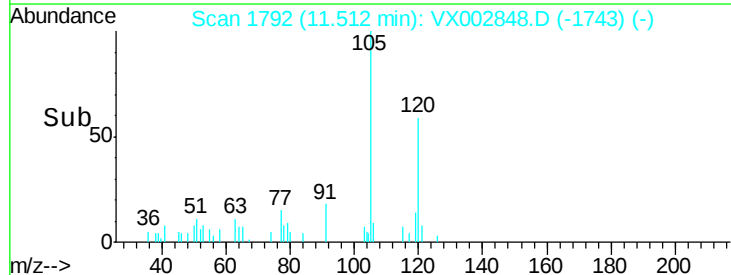
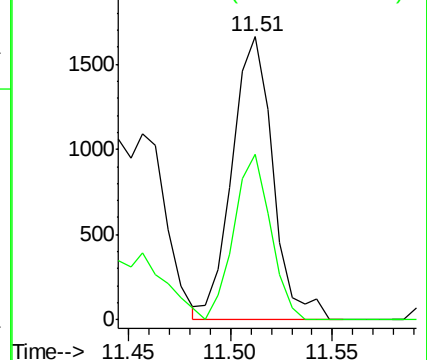
105 100

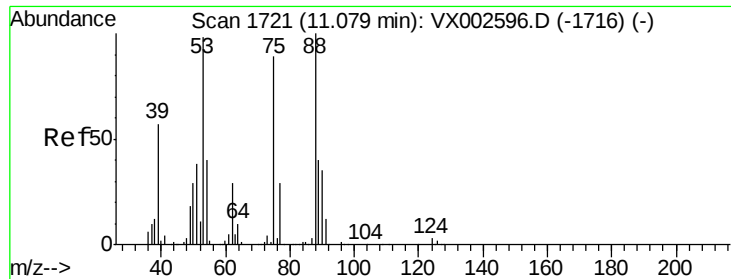
120 52.1 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 80.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

S83-0018

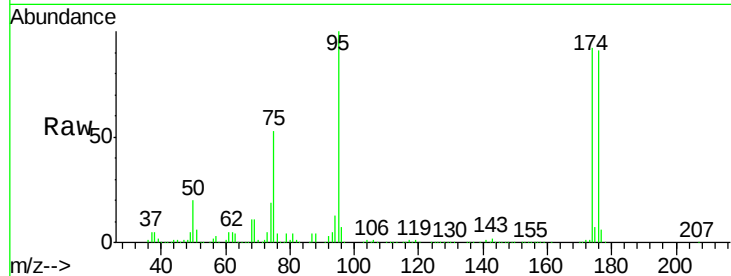
Tot Ion: 75 Resp: 89660

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

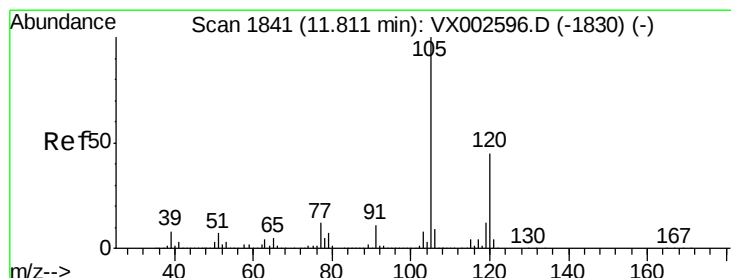
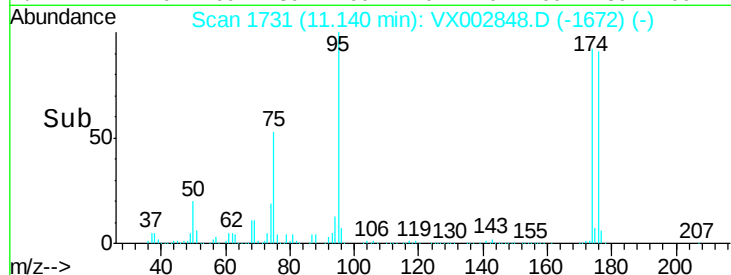
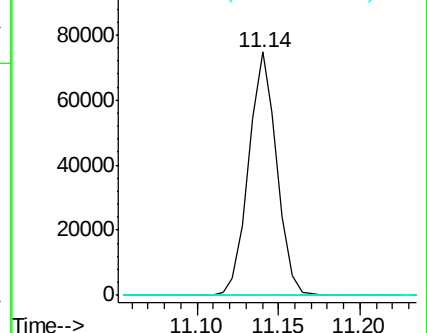
89 0.0 38.2 57.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.51 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002848.D

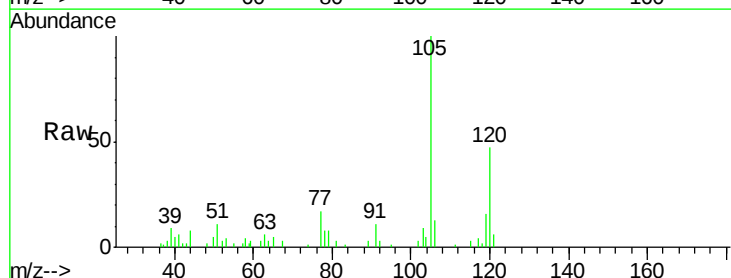
Acq: 22 Jun 2018 23:05

Tgt Ion: 105 Resp: 5349

Ion Ratio Lower Upper

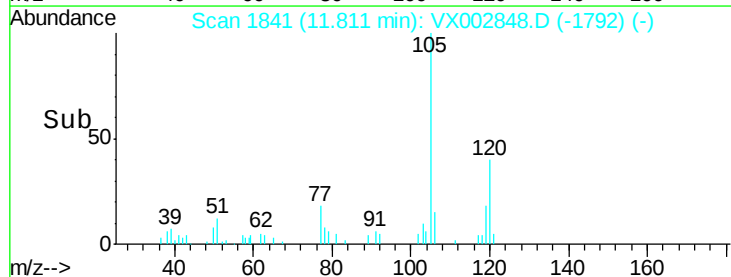
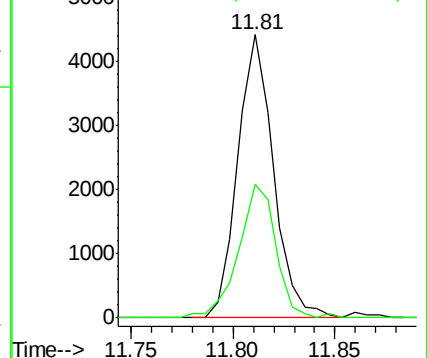
105 100

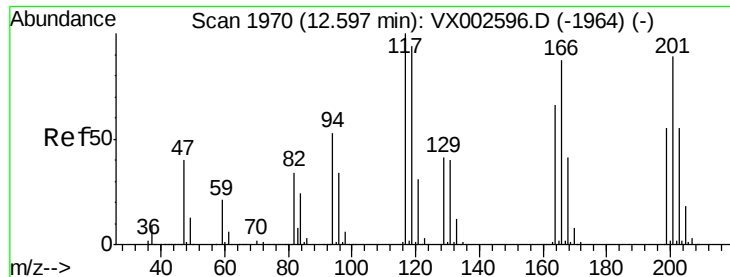
120 49.5 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.77 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

Instrument :

MSVOA_X

ClientSampleId :

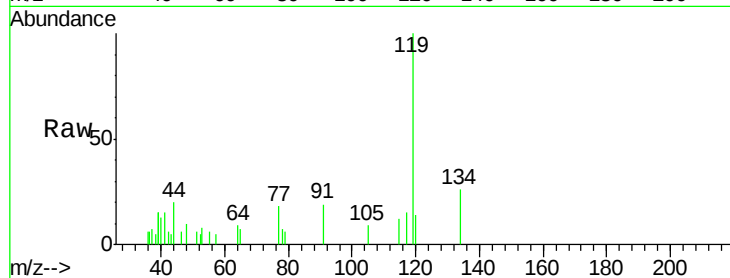
S83-0018

Tot Ion:117 Resp: 277

Ion Ratio Lower Upper

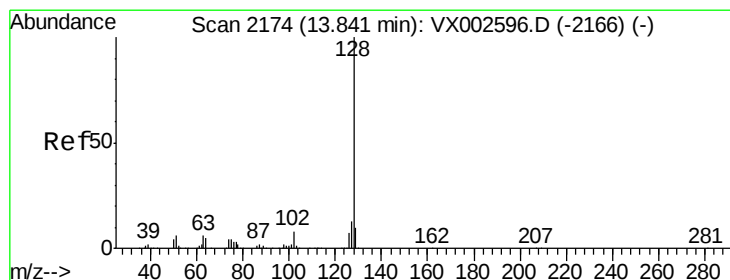
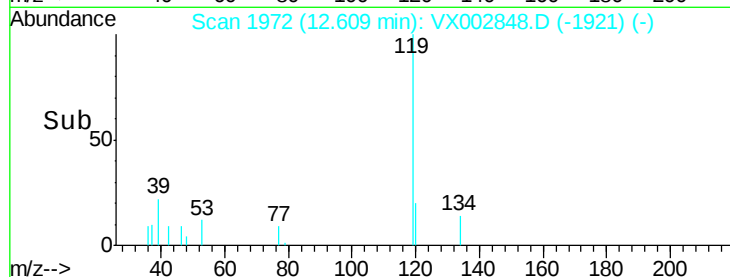
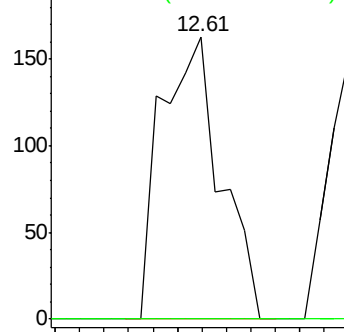
117 100

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



#95

Naphthalene

Concen: 0.25 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX002848.D

Acq: 22 Jun 2018 23:05

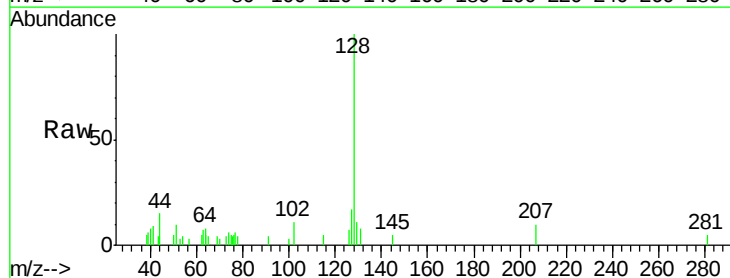
Tgt Ion:128 Resp: 3035

Ion Ratio Lower Upper

128 100

127 18.1 10.4 15.6#

129 14.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

