

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071318\
 Data File : VX003383.D
 Acq On : 14 Jul 2018 01:07
 Operator : JC/MD
 Sample : J3831-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-04-071218

Quant Time: Jul 14 02:50:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071318W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 13 17:01:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	280105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	415174	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	382936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212054	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	183007	59.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.96%	
35) Dibromofluoromethane	5.51	113	156749	51.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.60%	
50) Toluene-d8	8.72	98	578728	58.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.00%	
62) 4-Bromofluorobenzene	11.14	95	202038	47.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.96%	

Target Compounds

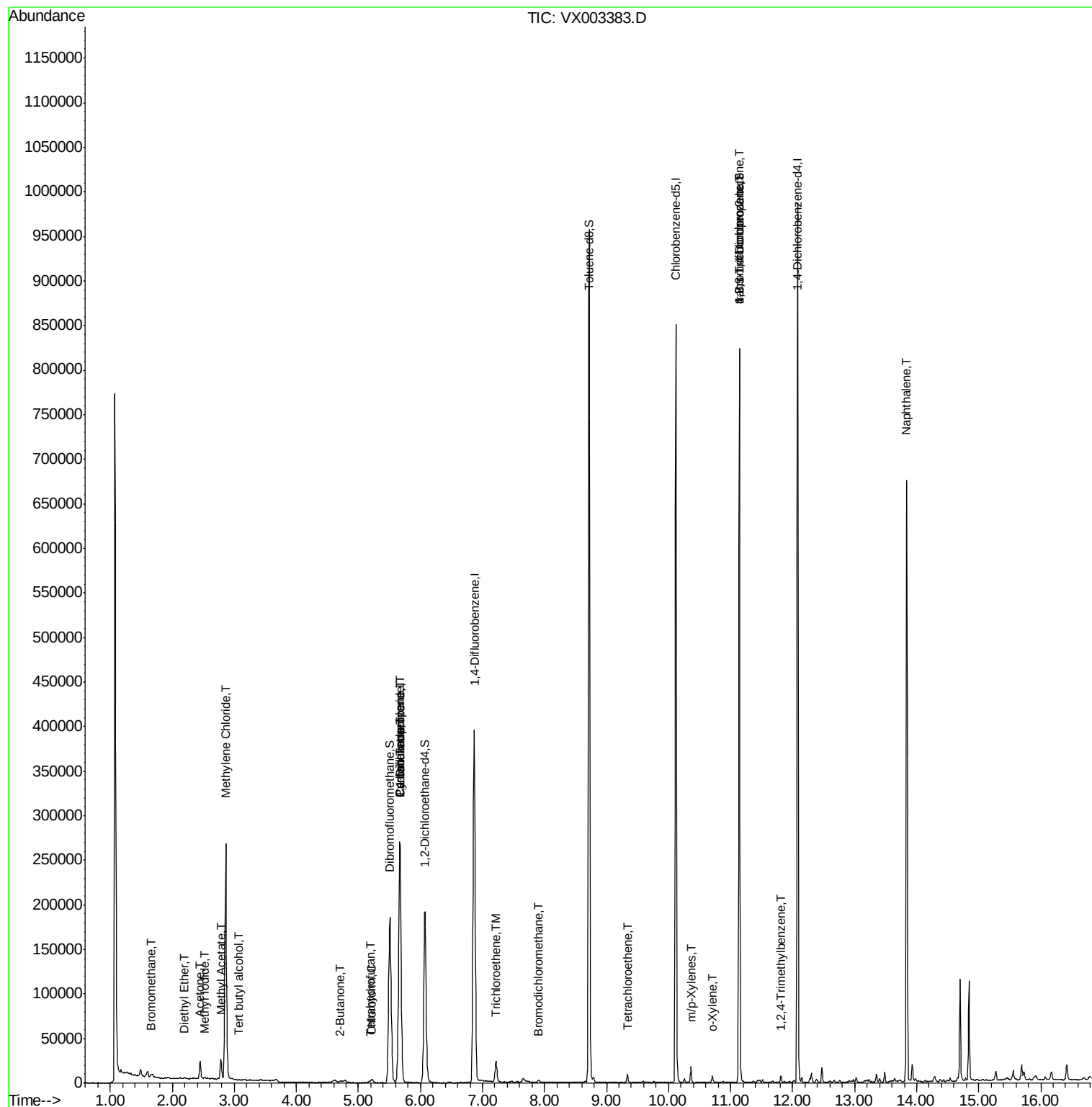
						Qvalue
2) Dichlorodifluoromethane	1.20	85	22	Below Cal	#	43
3) Chloromethane	1.33	50	1046	Below Cal		93
5) Bromomethane	1.66	94	2473	1.21	ug/l	95
6) Chloroethane	1.71	64	99	Below Cal	#	43
8) Diethyl Ether	2.19	74	582	0.25	ug/l	80
10) Methyl Iodide	2.52	142	1715	0.50	ug/l	94
11) Tert butyl alcohol	3.08	59	419	0.52	ug/l	# 89
13) Acrolein	2.29	56	290	Below Cal	#	55
16) Acetone	2.45	43	21604	13.74	ug/l	91
18) Methyl Acetate	2.78	43	26237	5.37	ug/l	93
20) Methylene Chloride	2.86	84	127166	37.67	ug/l	94
25) 2-Butanone	4.71	43	3735	1.53	ug/l	98
29) Tetrahydrofuran	5.18	42	1207	0.78	ug/l	# 60
30) Chloroform	5.21	83	4164	0.69	ug/l	89
31) Cyclohexane	5.67	56	4784	0.99	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18361	4.16	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	24927	5.54	ug/l	# 17
44) Trichloroethene	7.21	130	9508	2.43	ug/l	94
47) Bromodichloromethane	7.91	83	1181	0.27	ug/l	# 90
64) Tetrachloroethene	9.34	164	1860	0.45	ug/l	93
68) m/p-Xylenes	10.36	106	3986	0.65	ug/l	98
69) o-Xylene	10.70	106	1584	0.26	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	98978	23.63	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	98978	78.77	ug/l	# 7
84) 1,2,4-Trimethylbenzene	11.81	105	3478	0.28	ug/l	99
95) Naphthalene	13.84	128	438042	29.51	ug/l	100

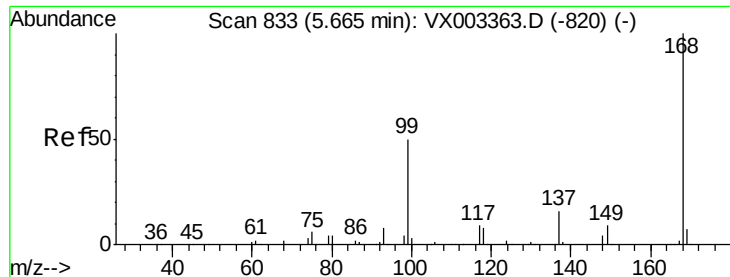
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 13 17:01:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

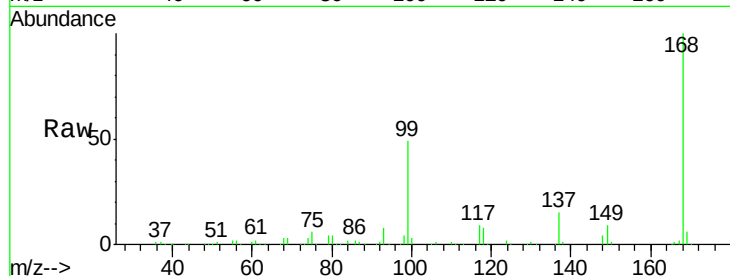
SU-04-071218

Tot Ion:168 Resp: 280105

Ion Ratio Lower Upper

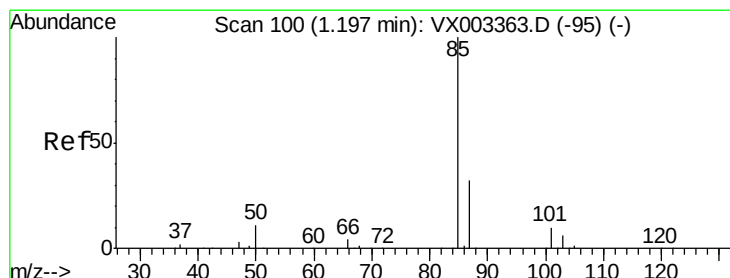
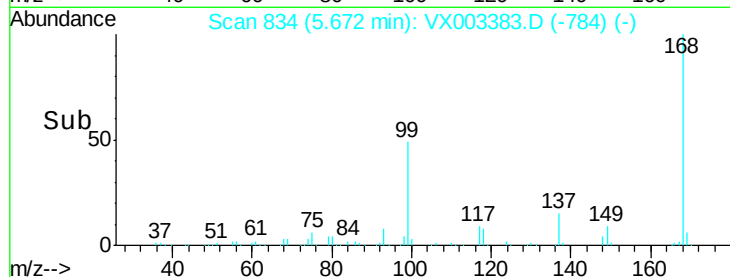
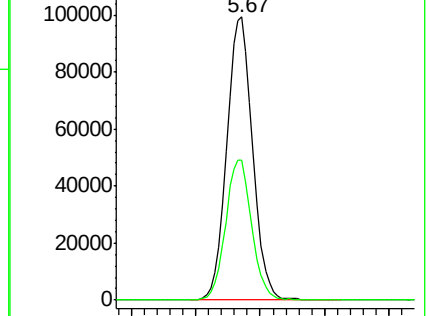
168 100

99 49.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003383.D

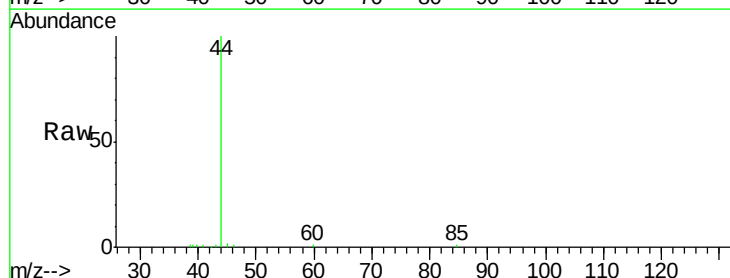
Acq: 14 Jul 2018 01:07

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

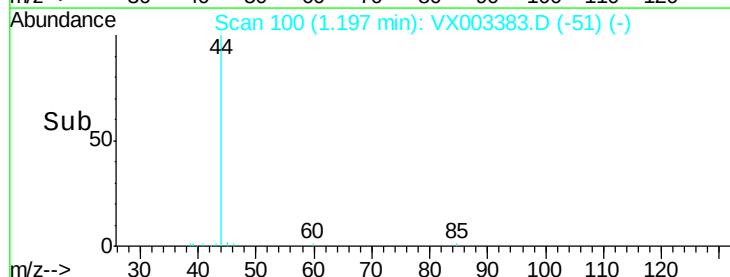
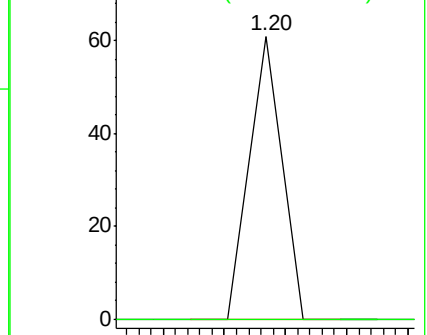
85 100

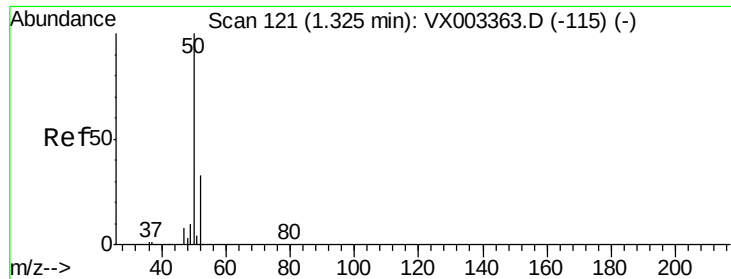
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

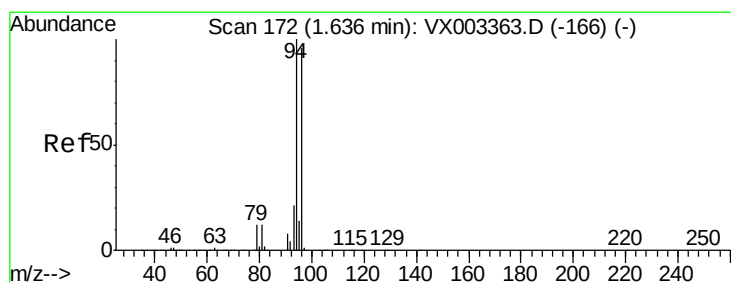
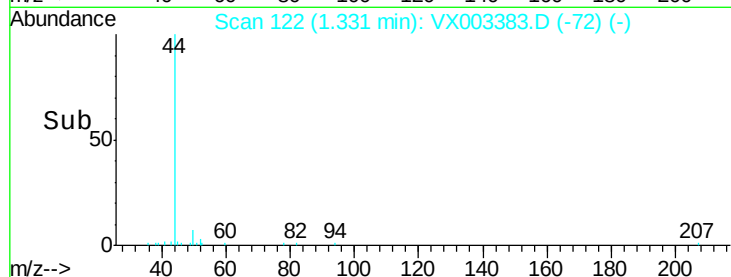
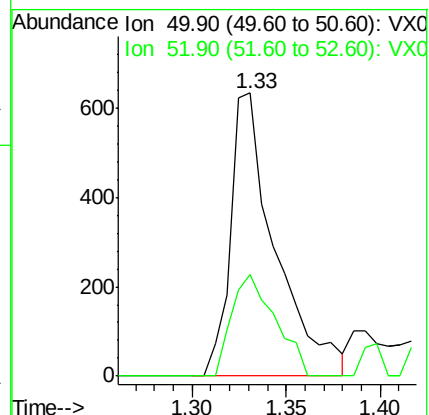
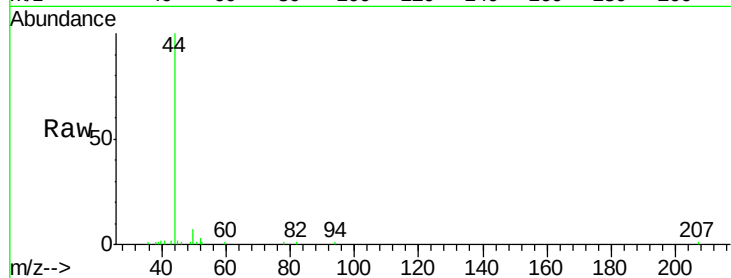
SU-04-071218

Tot Ion: 50 Resp: 1046

Ion Ratio Lower Upper

50 100

52 35.9 25.7 38.5



#5

Bromomethane

Concen: 1.21 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX003383.D

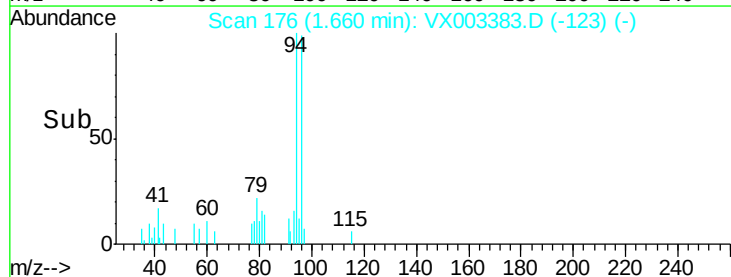
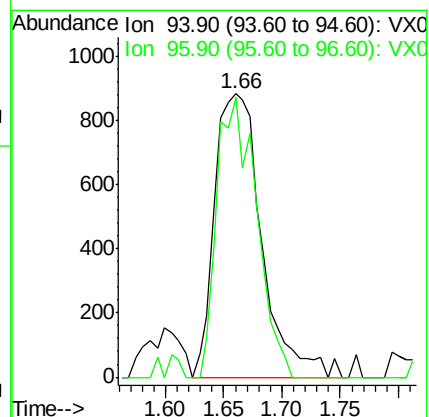
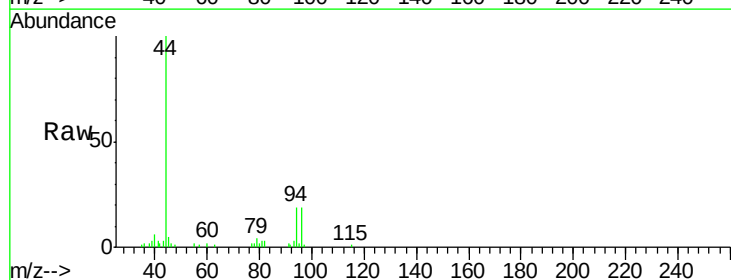
Acq: 14 Jul 2018 01:07

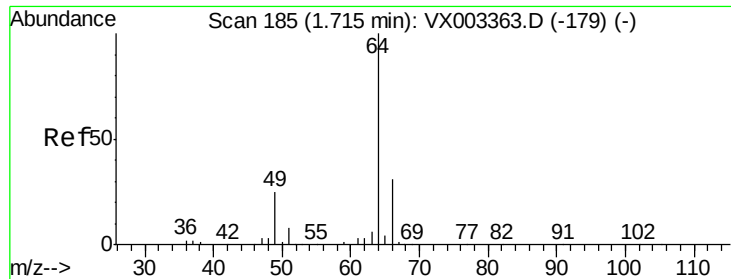
Tgt Ion: 94 Resp: 2473

Ion Ratio Lower Upper

94 100

96 98.9 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

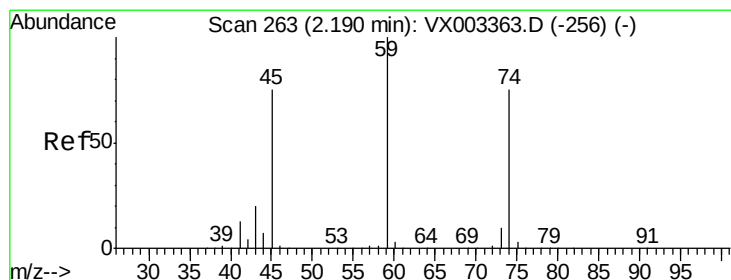
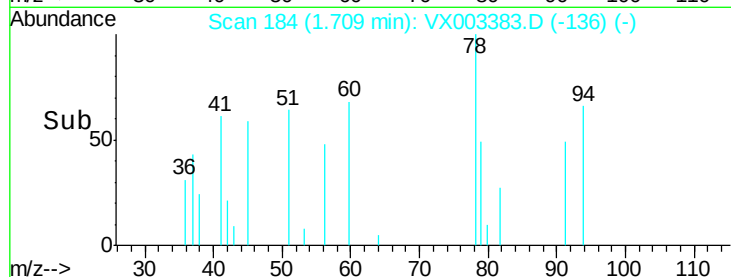
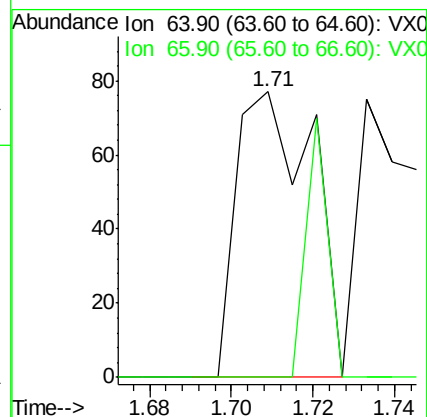
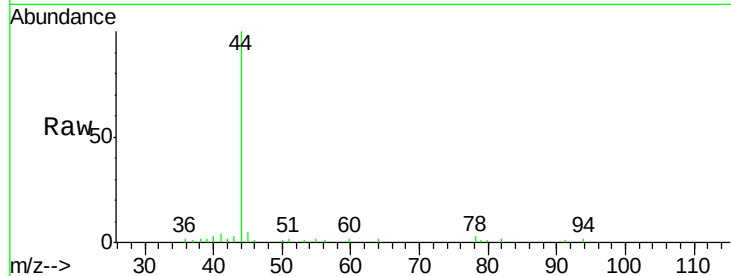
SU-04-071218

Tot Ion: 64 Resp: 99

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: 0.25 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003383.D

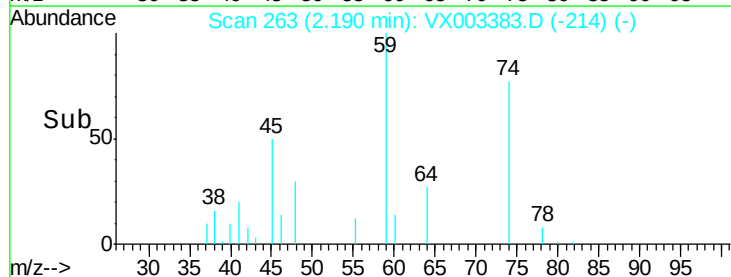
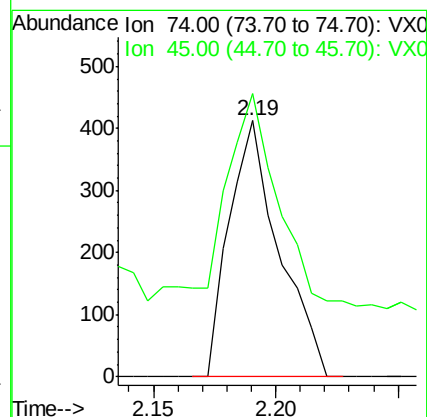
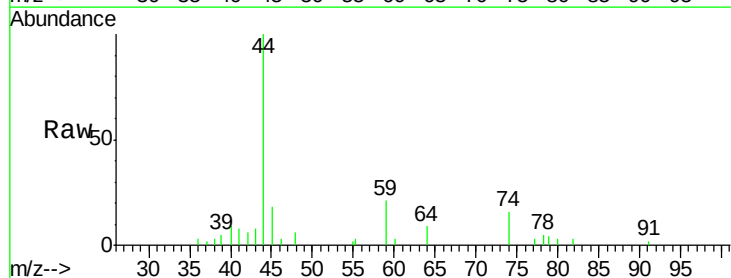
Acq: 14 Jul 2018 01:07

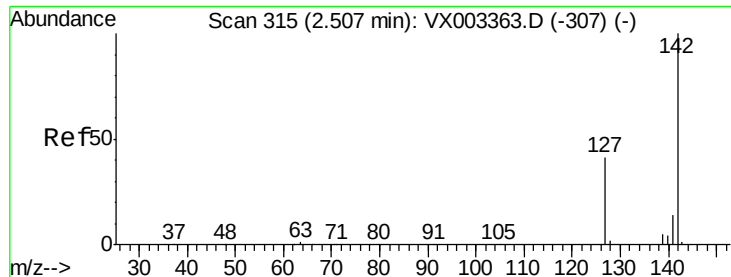
Tgt Ion: 74 Resp: 582

Ion Ratio Lower Upper

74 100

45 86.1 53.1 159.4

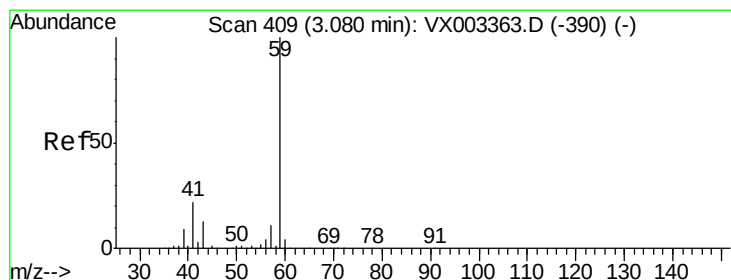
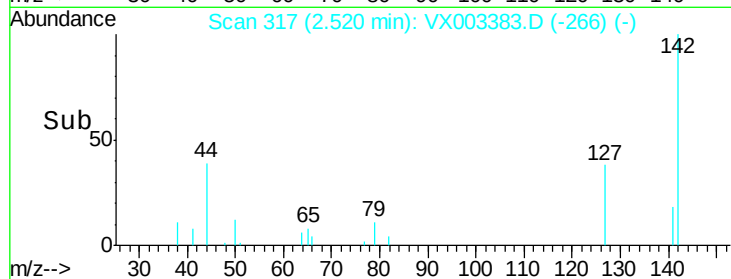
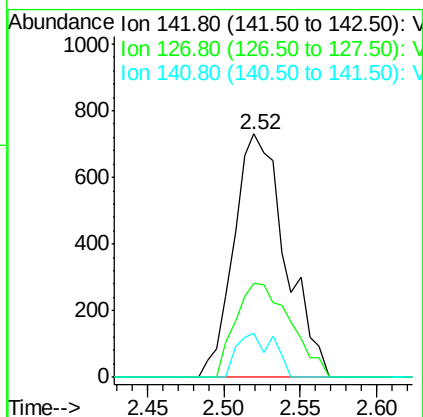
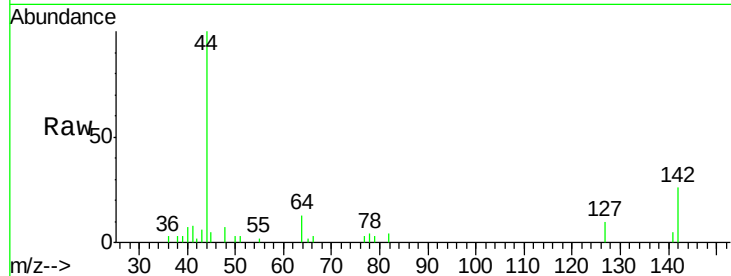




#10
Methvl Iodide
Concen: 0.50 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

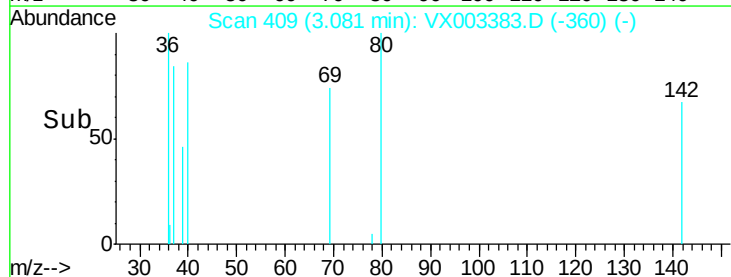
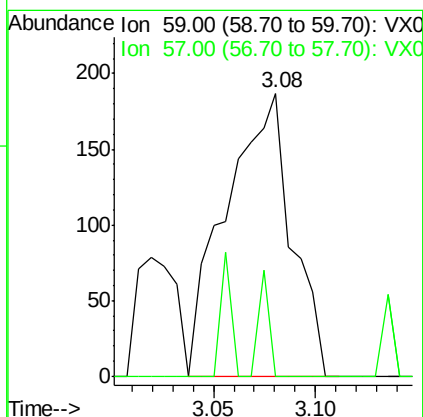
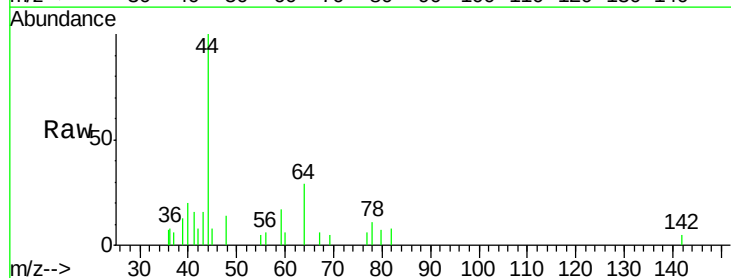
Instrument :
MSVOA_X
ClientSampleId :
SU-04-071218

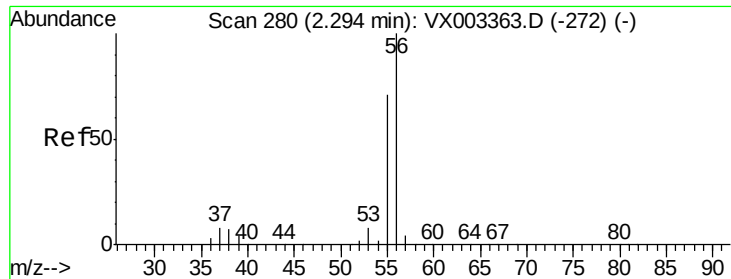
Tot Ion:142 Resp: 1715
Ion Ratio Lower Upper
142 100
127 40.9 36.6 55.0
141 13.0 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.52 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

Tgt Ion: 59 Resp: 419
Ion Ratio Lower Upper
59 100
57 6.2 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampled :

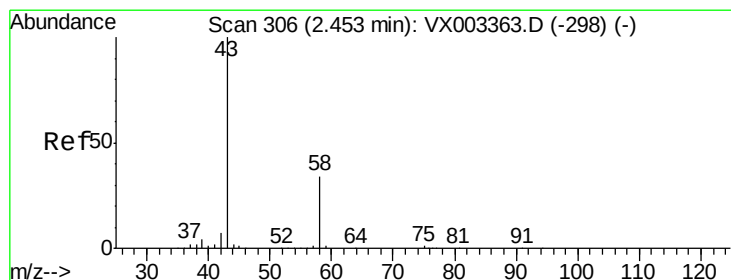
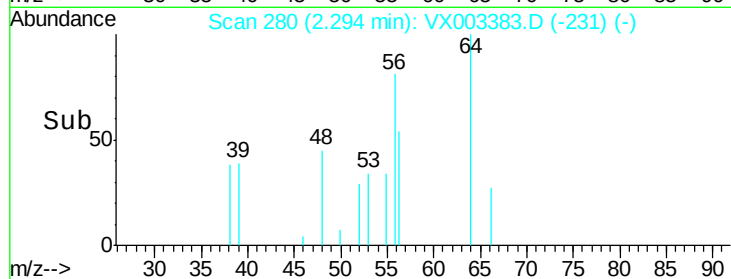
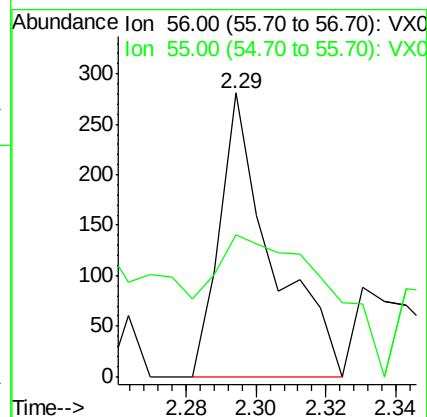
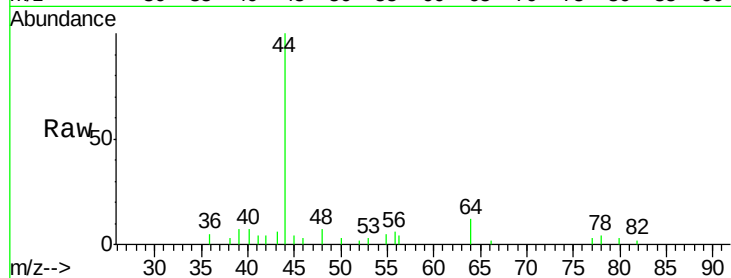
SU-04-071218

Tot Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

55 108.6 57.0 85.4#



#16

Acetone

Concen: 13.74 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003383.D

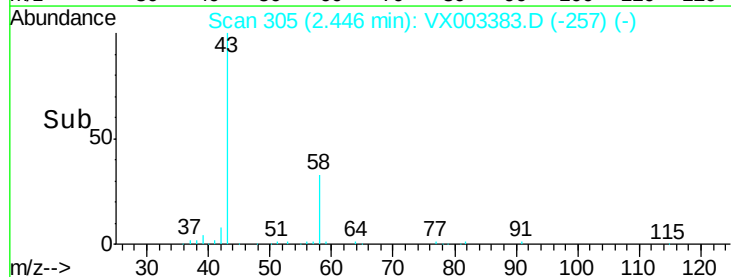
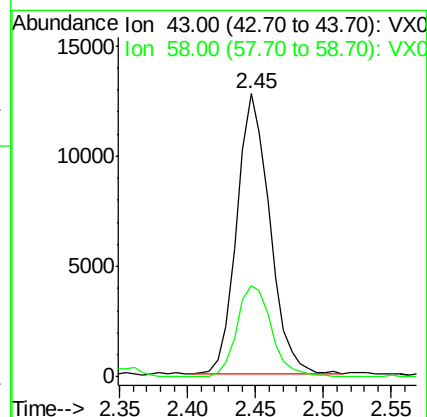
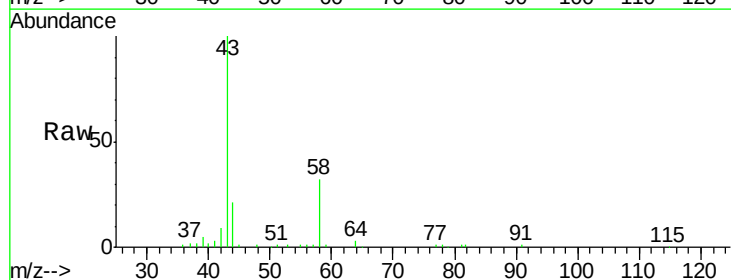
Acq: 14 Jul 2018 01:07

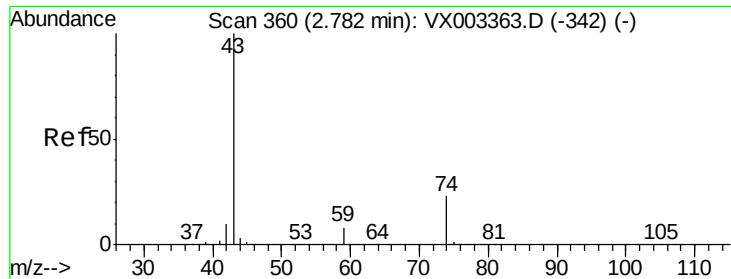
Tgt Ion: 43 Resp: 21604

Ion Ratio Lower Upper

43 100

58 32.6 22.1 33.1

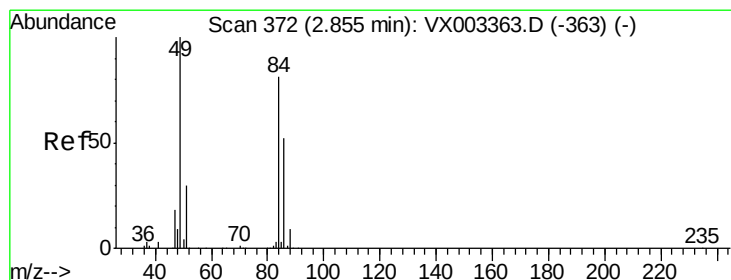
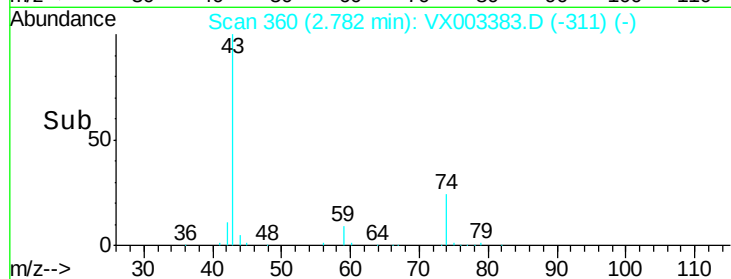
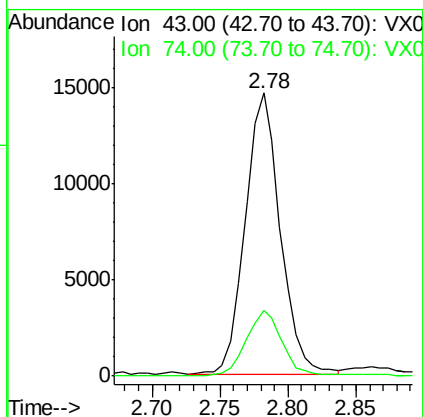
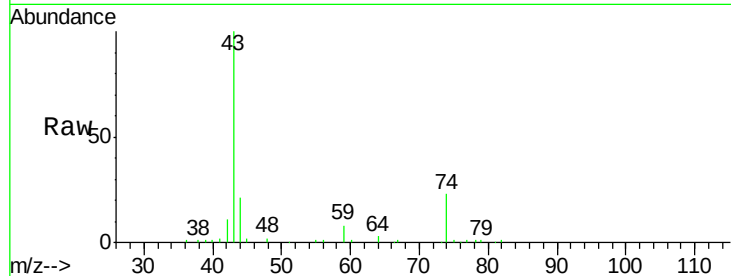




#18
Methyl Acetate
Concen: 5.37 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

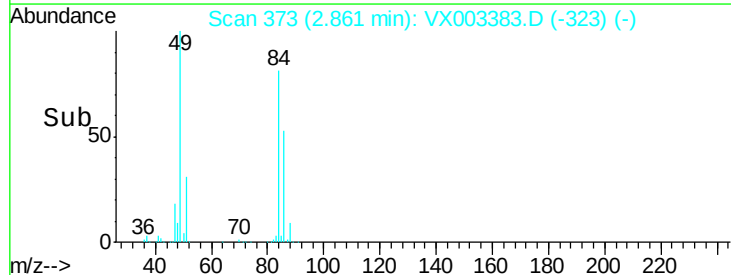
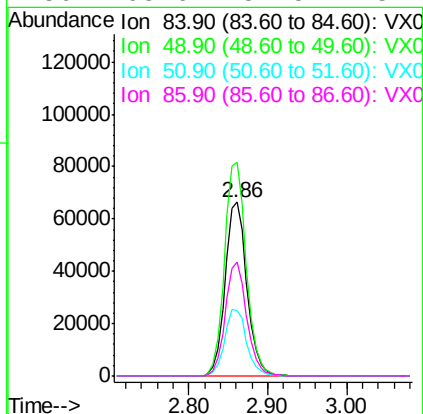
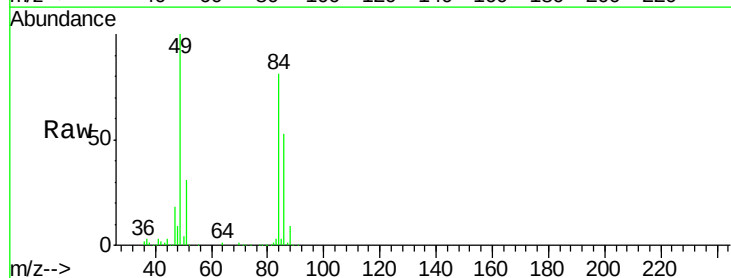
Instrument :
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ClientSampleId :
SU-04-071218

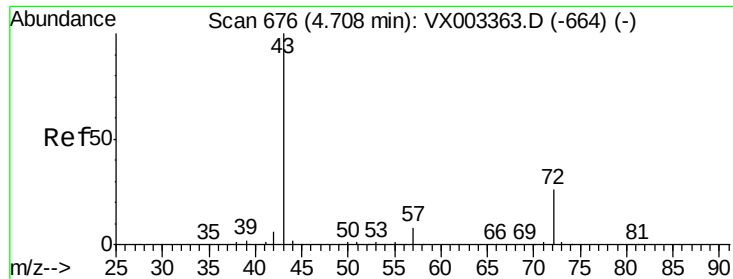
Tot Ion: 43 Resp: 26237
Ion Ratio Lower Upper
43 100
74 24.3 16.7 25.1



#20
Methylene Chloride
Concen: 37.67 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

Tgt Ion: 84 Resp: 127166
Ion Ratio Lower Upper
84 100
49 123.0 107.8 161.6
51 37.6 32.8 49.2
86 65.6 52.5 78.7





#25

2-Butanone

Concen: 1.53 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

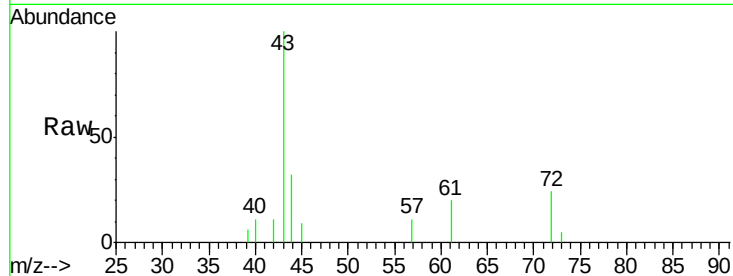
SU-04-071218

Tot Ion: 43 Resp: 3735

Ion Ratio Lower Upper

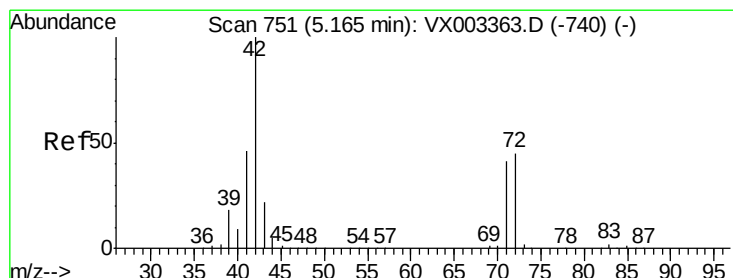
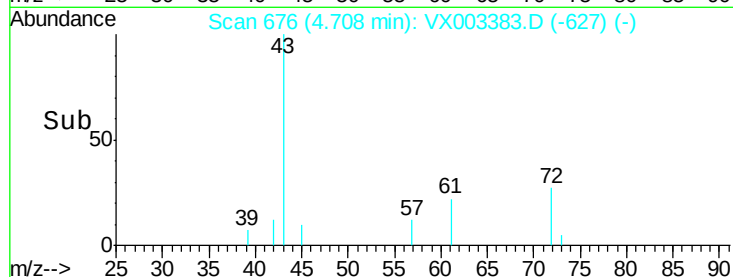
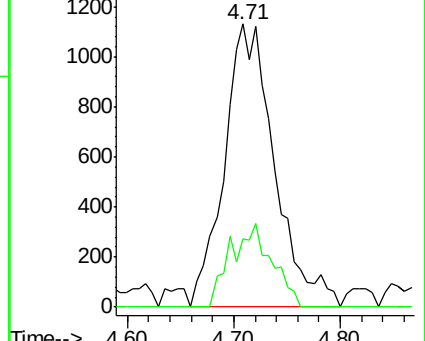
43 100

72 24.1 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.78 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

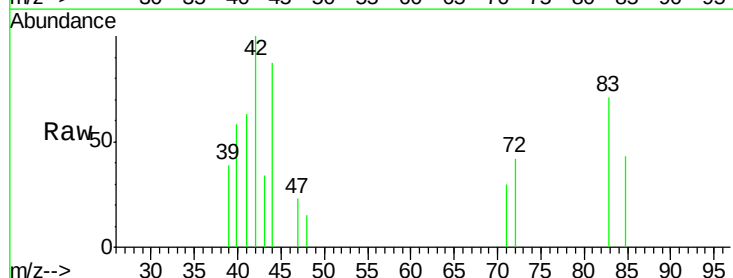
Tgt Ion: 42 Resp: 1207

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

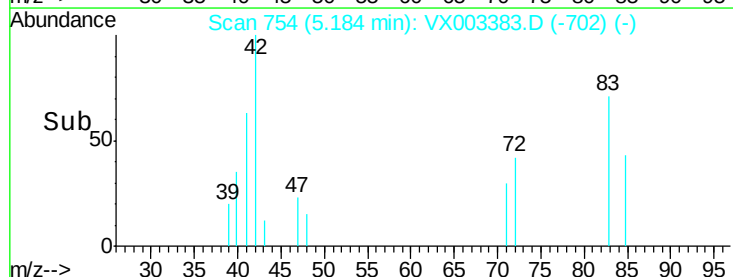
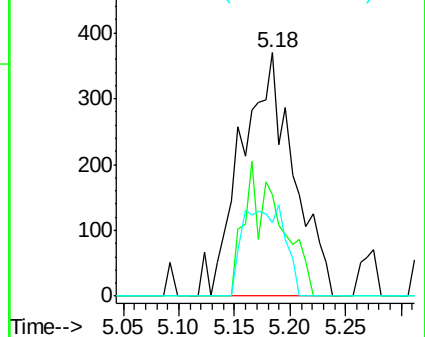
71 29.5 30.1 45.1#

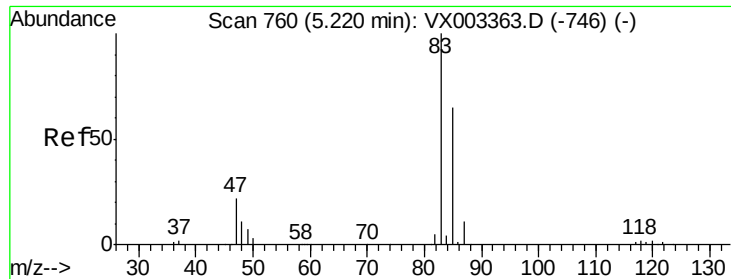


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

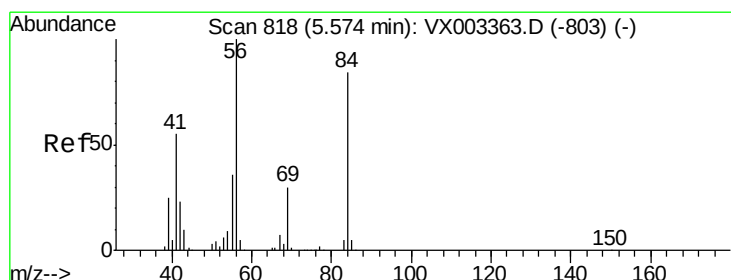
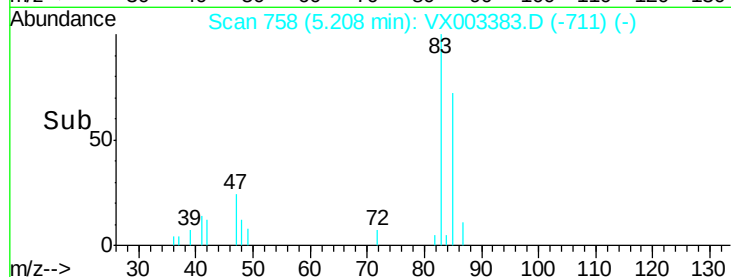
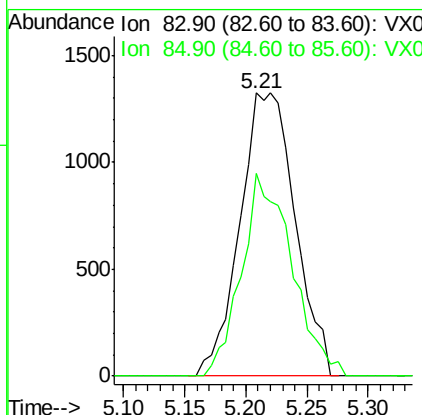
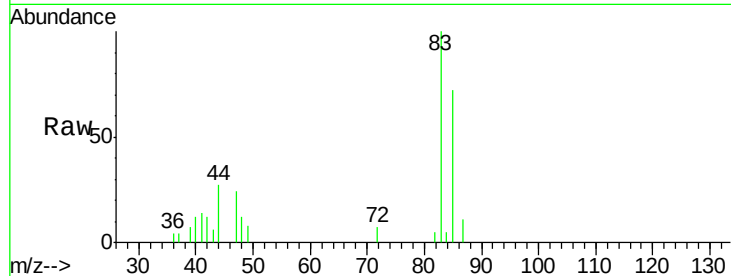




#30
Chloroform
Concen: 0.69 ug/l
RT: 5.21 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

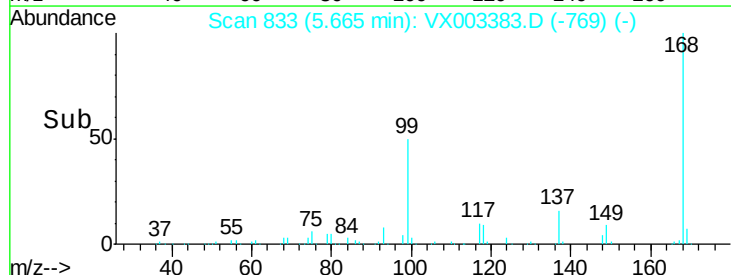
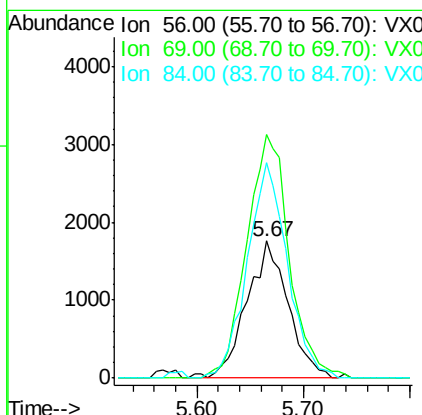
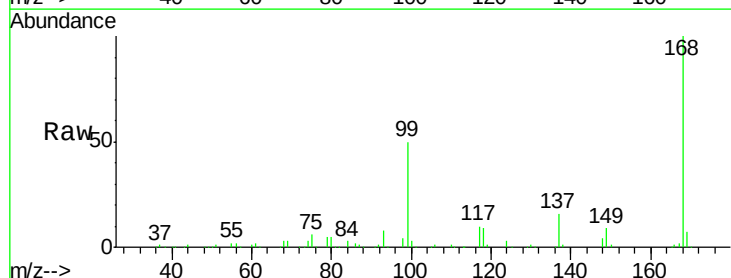
Instrument :
MSVOA_X
ClientSampleId :
SU-04-071218

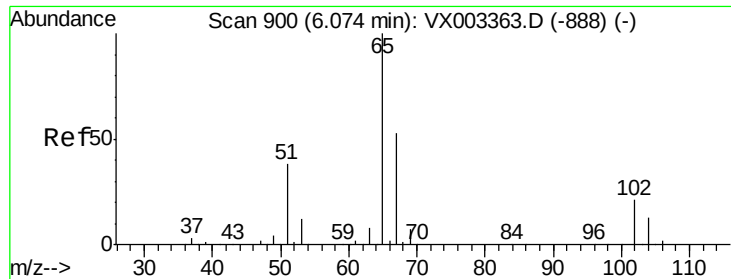
Tot Ion: 83 Resp: 4164
Ion Ratio Lower Upper
83 100
85 71.8 50.4 75.6



#31
Cyclohexane
Concen: 0.99 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

Tgt Ion: 56 Resp: 4784
Ion Ratio Lower Upper
56 100
69 177.3 23.7 35.5#
84 156.6 64.1 96.1#

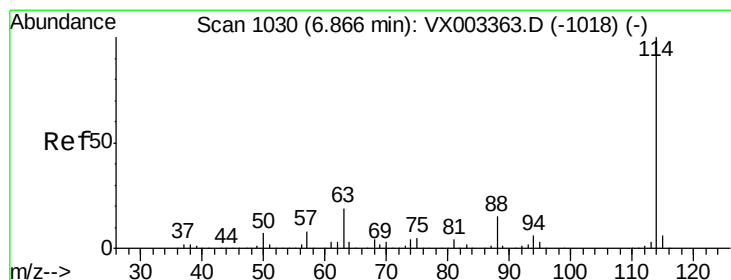
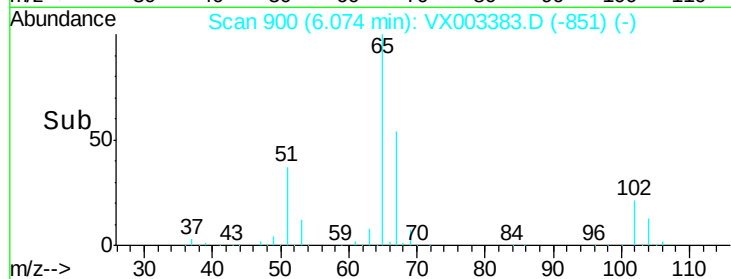
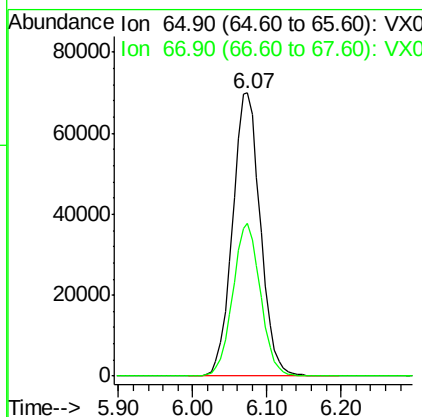
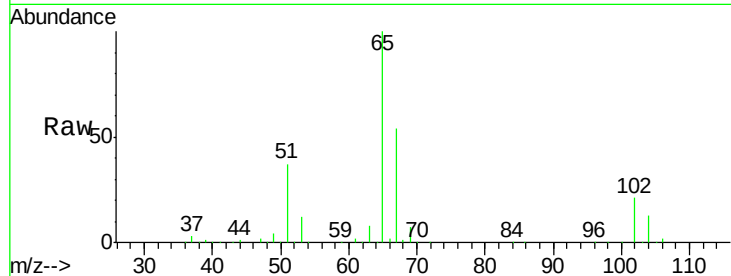




#33
 1,2-Dichloroethane-d4
 Concen: 59.98 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003383.D
 Acq: 14 Jul 2018 01:07

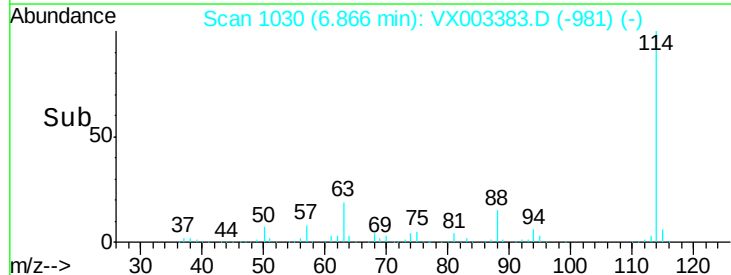
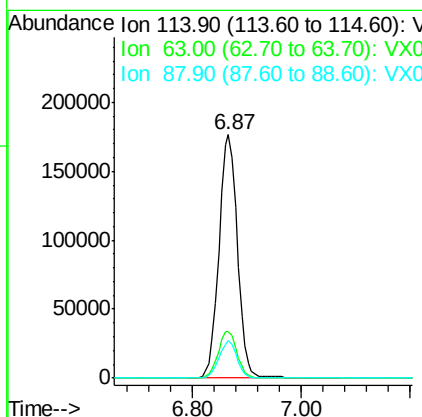
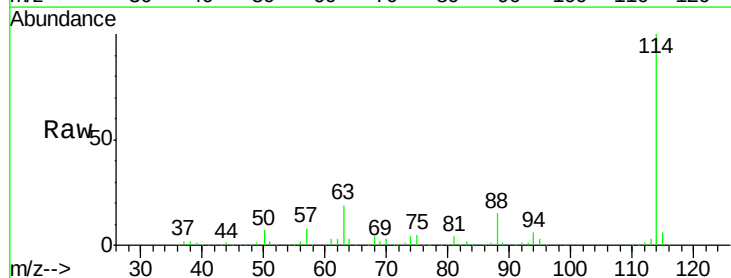
Instrument :
 MSVOA_X
 ClientSampleId :
 SU-04-071218

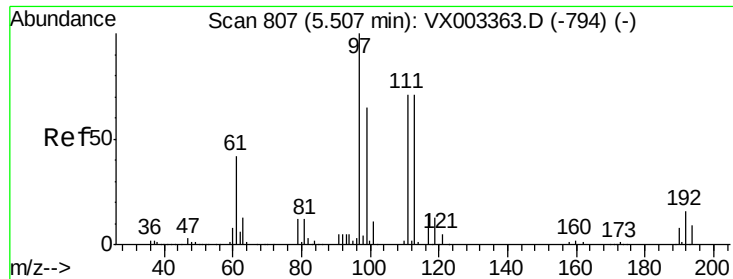
Tot Ion: 65 Resp: 183007
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003383.D
 Acq: 14 Jul 2018 01:07

Tgt Ion: 114 Resp: 415174
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 41.4
 88 15.3 0.0 30.0

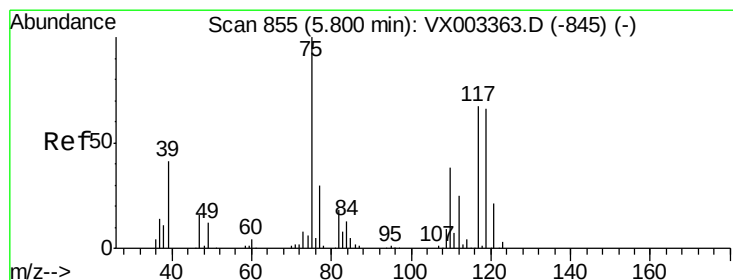
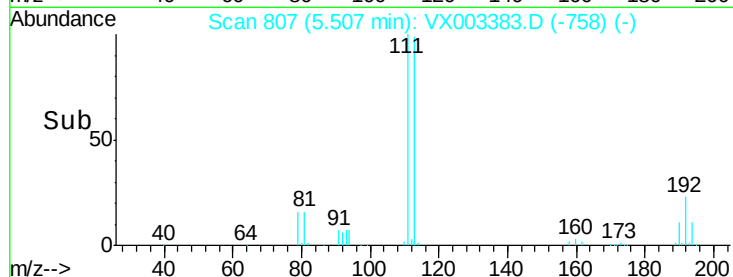
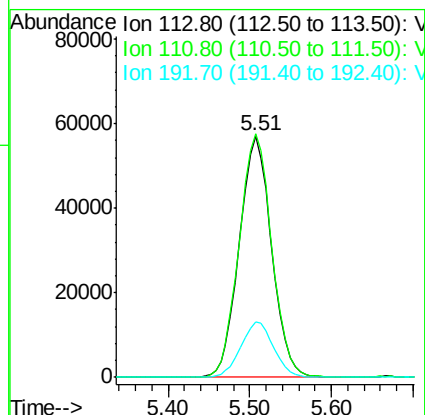
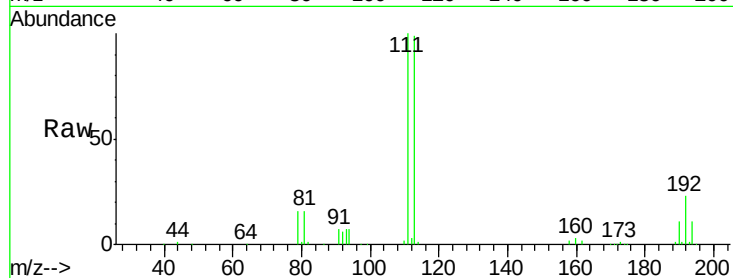




#35
Dibromofluoromethane
Concen: 51.30 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

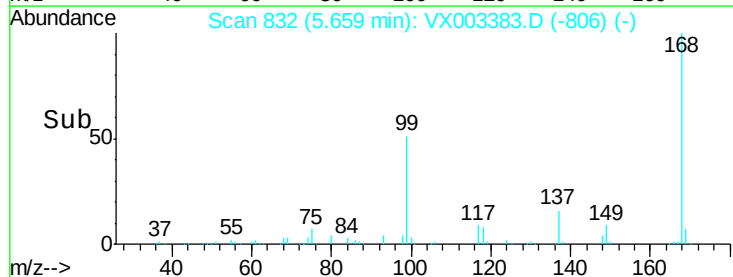
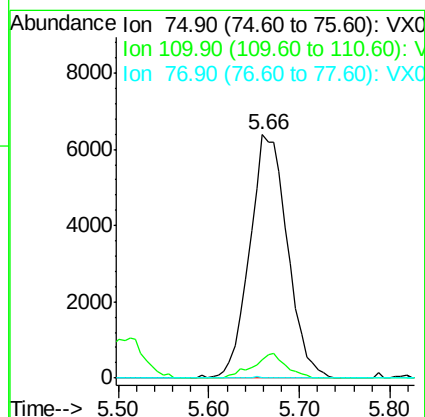
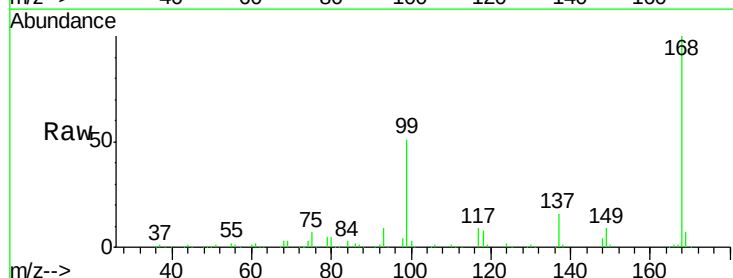
Instrument :
MSVOA_X
ClientSampleId :
SU-04-071218

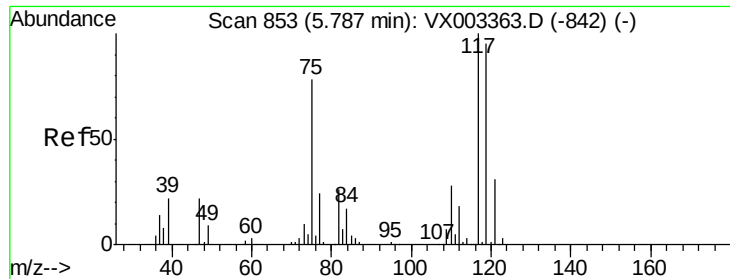
Tot Ion:113 Resp: 156749
Ion Ratio Lower Upper
113 100
111 102.1 81.4 122.0
192 23.3 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.16 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.14 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

Tgt Ion: 75 Resp: 18361
Ion Ratio Lower Upper
75 100
110 8.9 18.1 54.4#
77 0.1 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.54 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

SU-04-071218

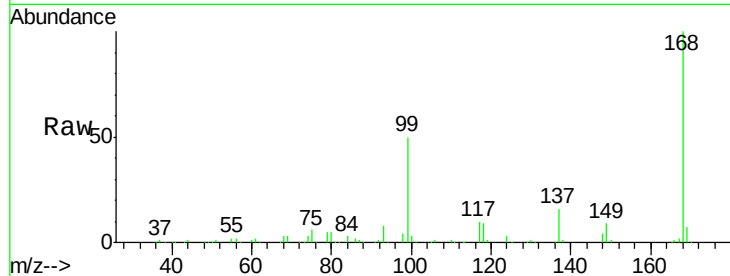
Tot Ion:117 Resp: 24927

Ion Ratio Lower Upper

117 100

119 6.4 77.4 116.0#

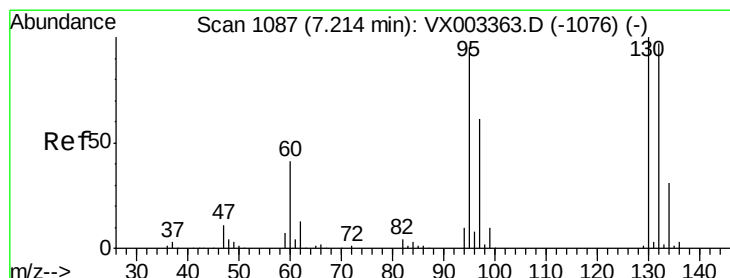
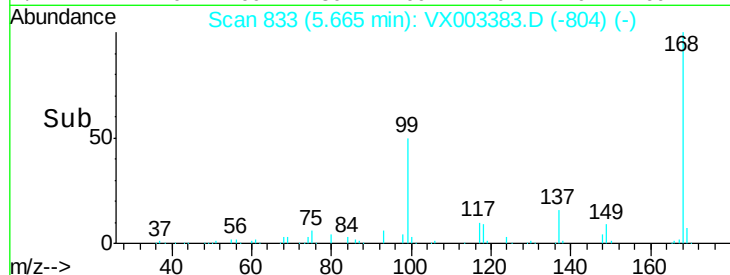
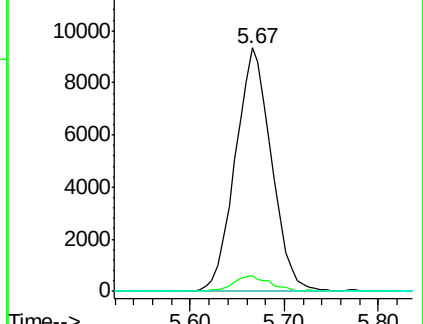
121 0.0 24.4 36.6#



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



#44

Trichloroethene

Concen: 2.43 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003383.D

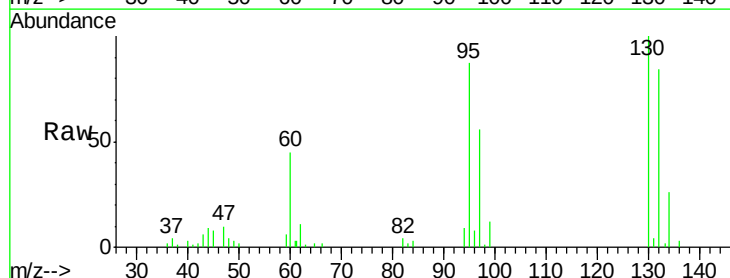
Acq: 14 Jul 2018 01:07

Tgt Ion:130 Resp: 9508

Ion Ratio Lower Upper

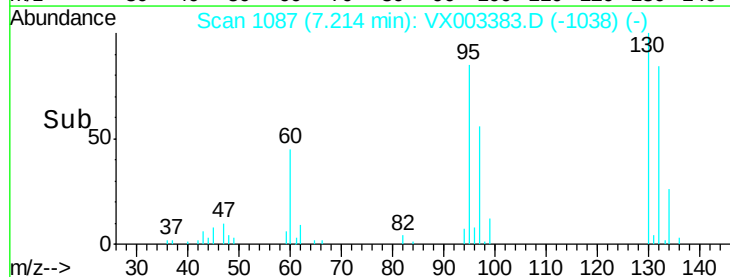
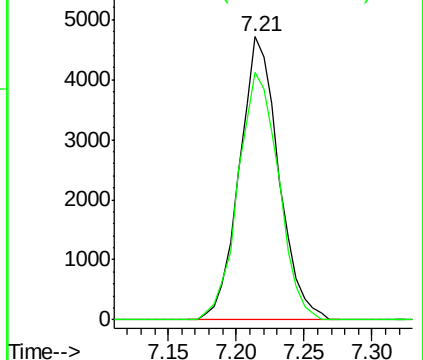
130 100

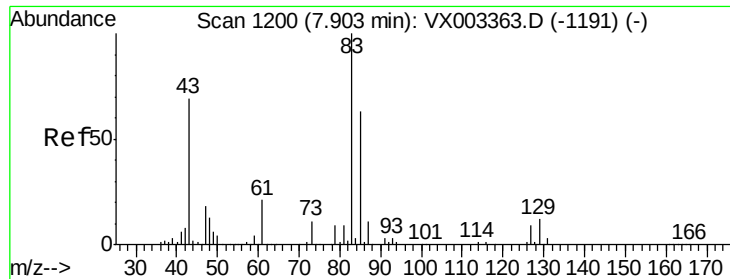
95 87.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.27 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

SU-04-071218

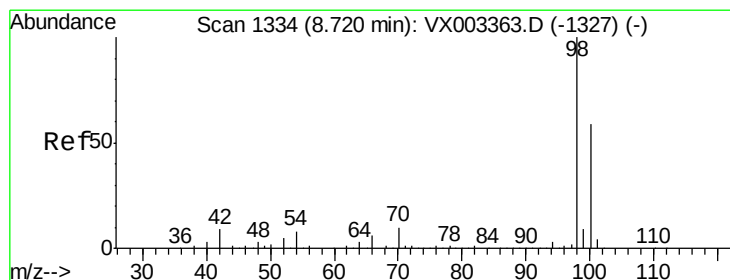
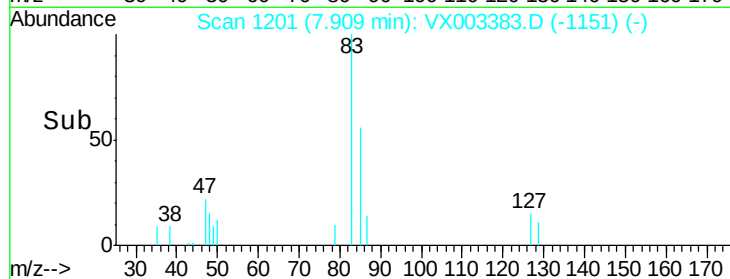
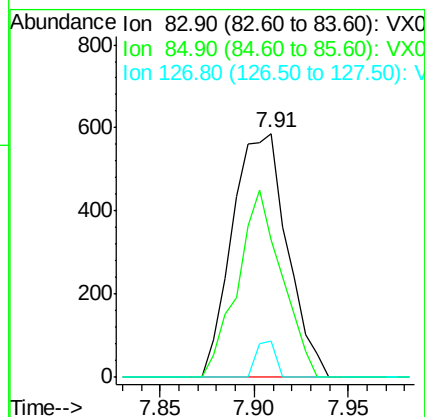
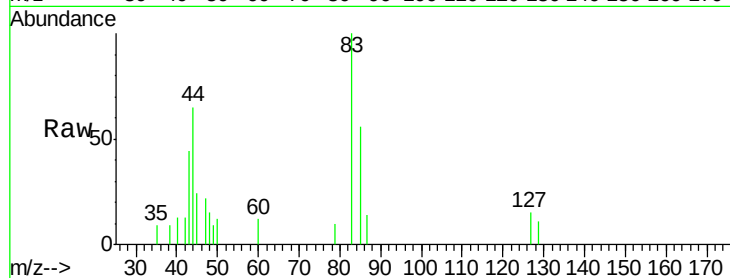
Tot Ion: 83 Resp: 1181

Ion Ratio Lower Upper

83 100

85 56.3 50.3 75.5

127 15.0 7.0 10.4#



#50

Toluene-d8

Concen: 58.00 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003383.D

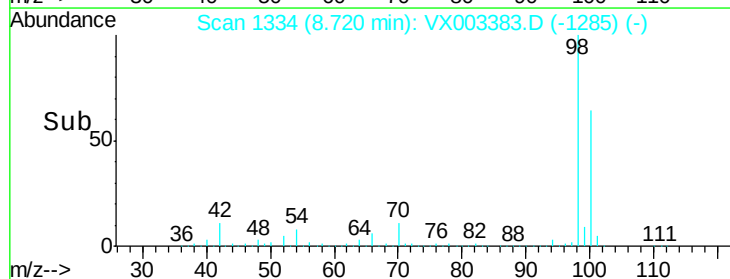
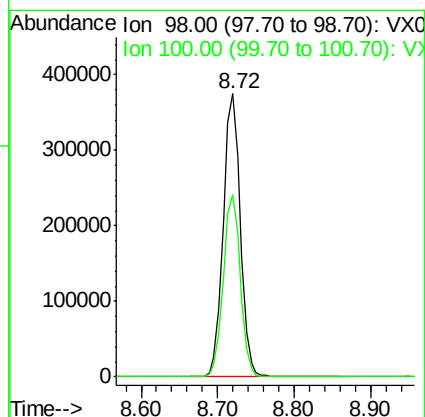
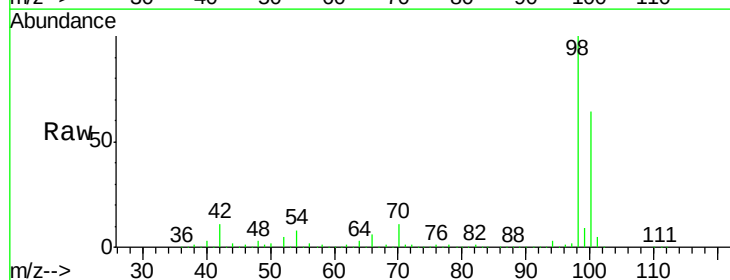
Acq: 14 Jul 2018 01:07

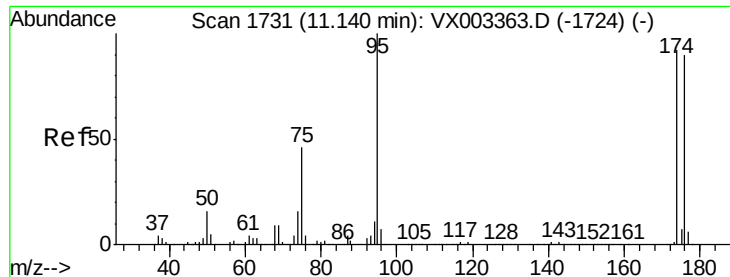
Tgt Ion: 98 Resp: 578728

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 47.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

SU-04-071218

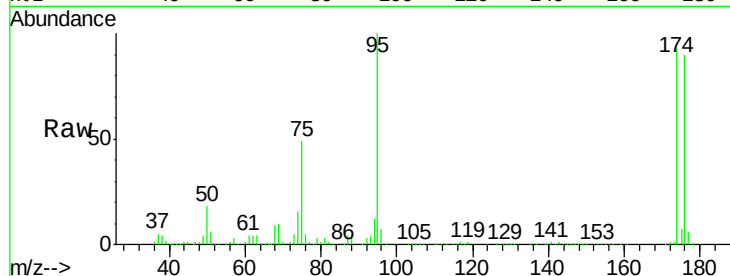
Tot Ion: 95 Resp: 202038

Ion Ratio Lower Upper

95 100

174 93.3 0.0 187.4

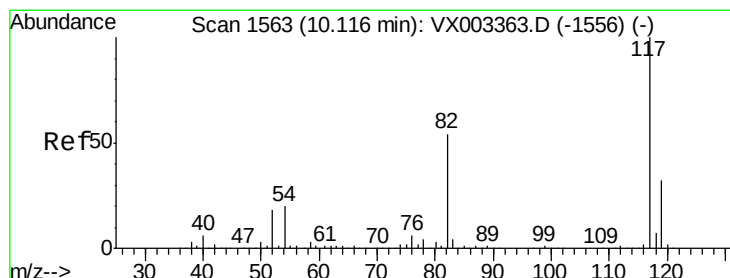
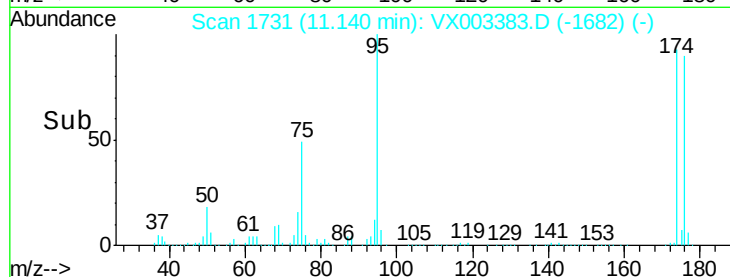
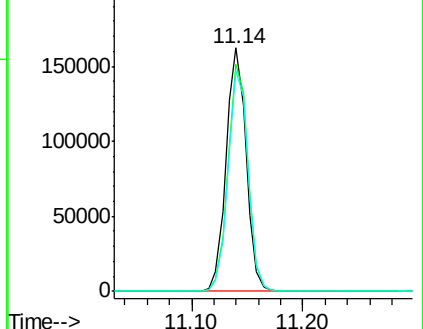
176 90.6 0.0 181.0



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: VX003383.D

Acq: 14 Jul 2018 01:07

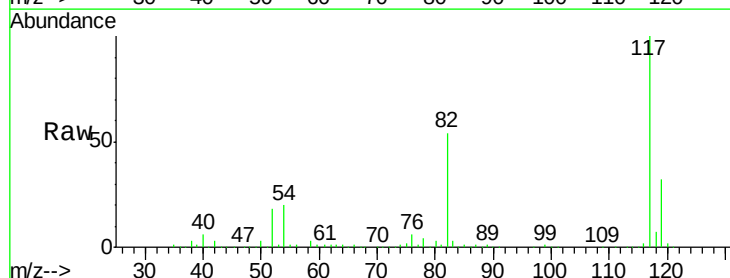
Tgt Ion: 117 Resp: 382936

Ion Ratio Lower Upper

117 100

82 53.6 45.0 67.4

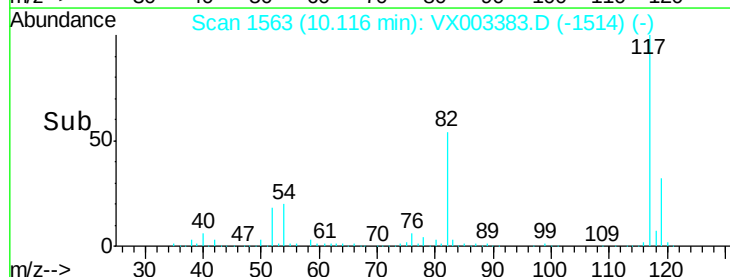
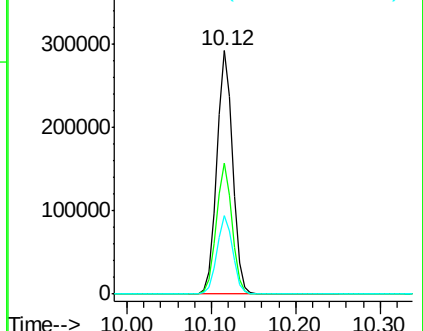
119 32.1 25.8 38.6

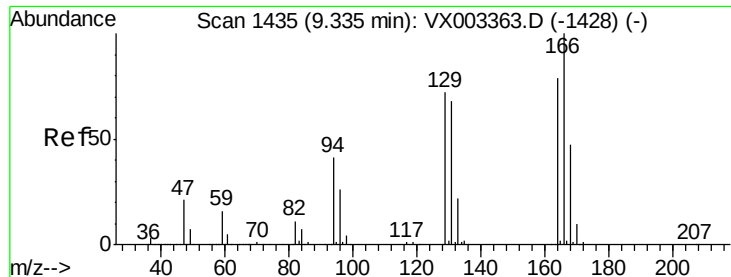


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.45 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.01 min

Lab File: VX003383.D

Acq: 14 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

SU-04-071218

Tot Ion:164 Resp: 1860

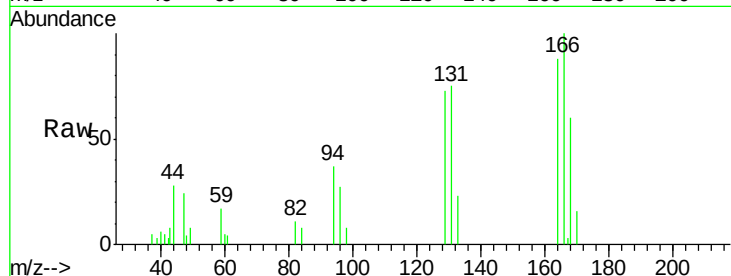
Ion Ratio Lower Upper

164 100

166 114.0 102.9 154.3

129 83.7 68.6 102.8

131 85.5 66.8 100.2

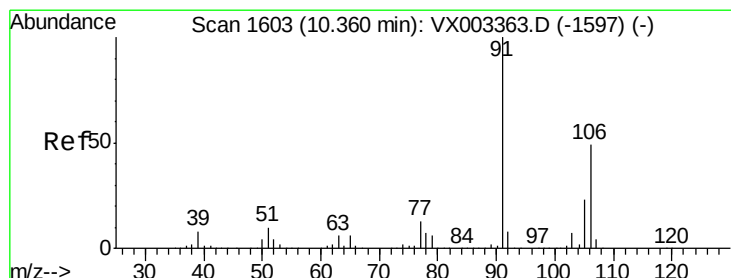
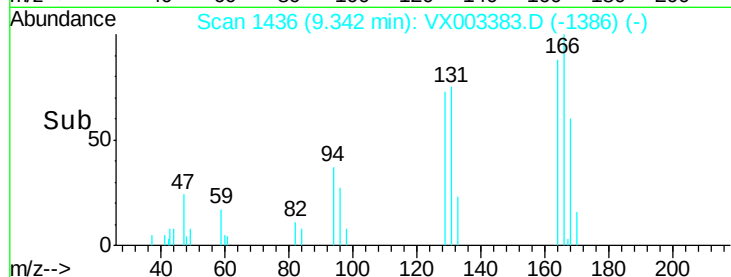
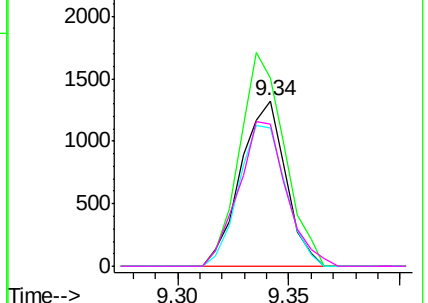


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#68

m/p-Xylenes

Concen: 0.65 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003383.D

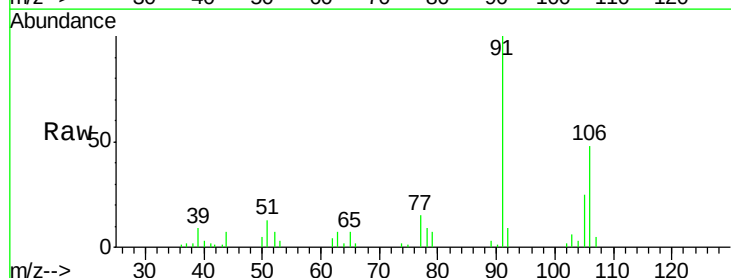
Acq: 14 Jul 2018 01:07

Tgt Ion:106 Resp: 3986

Ion Ratio Lower Upper

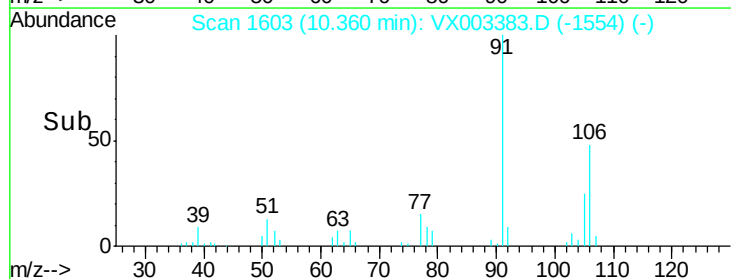
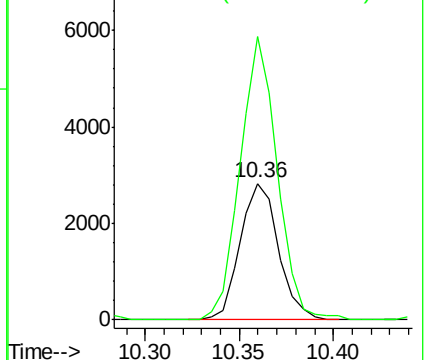
106 100

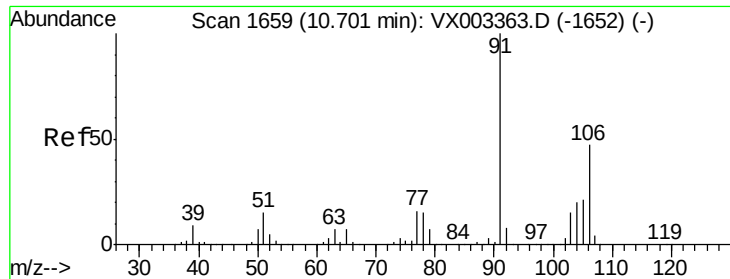
91 200.8 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

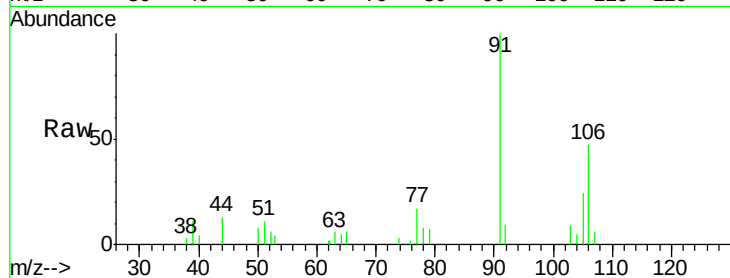




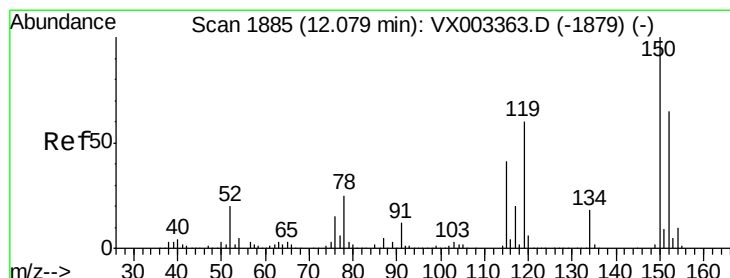
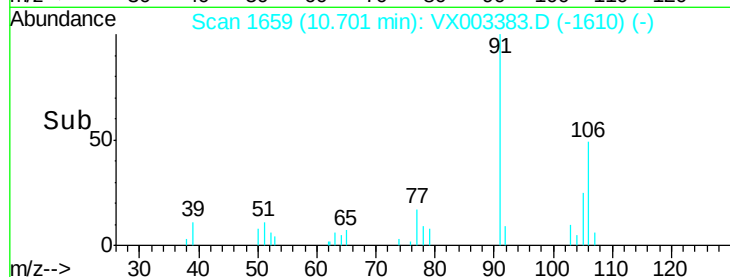
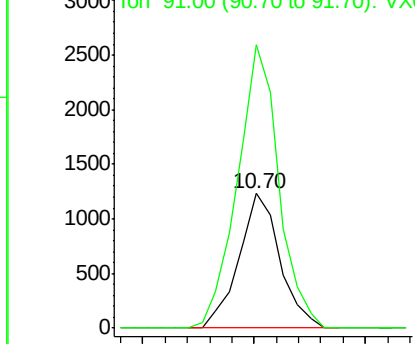
#69
o-Xylene
Concen: 0.26 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

Instrument :
MSVOA_X
ClientSampled :
SU-04-071218

Tot Ion:106 Resp: 1584
Ion Ratio Lower Upper
106 100
91 211.4 108.2 324.6

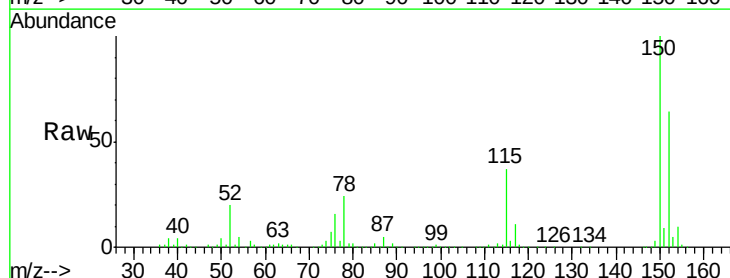


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

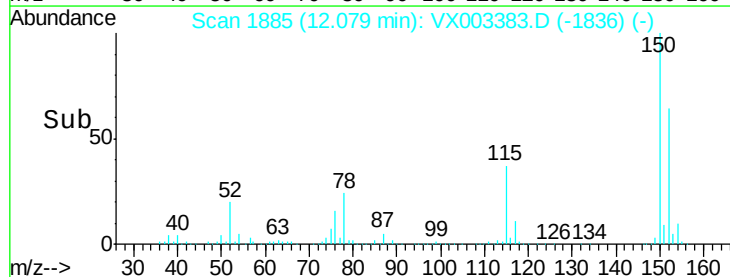
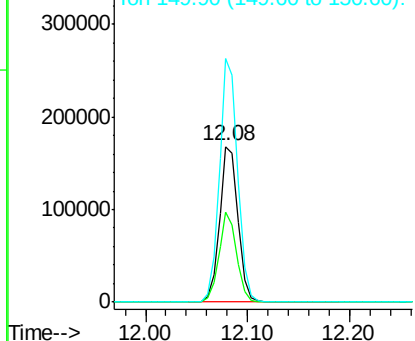


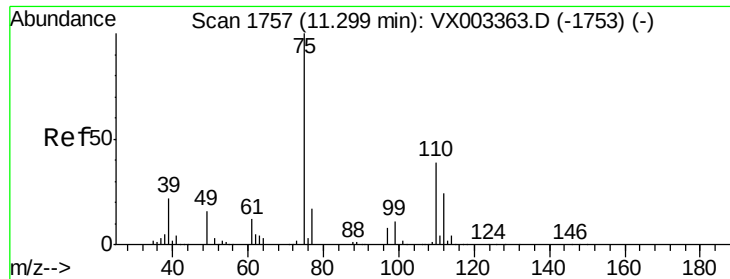
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003383.D
Acq: 14 Jul 2018 01:07

Tgt Ion:152 Resp: 212054
Ion Ratio Lower Upper
152 100
115 55.5 40.1 120.2
150 155.5 0.0 347.2



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

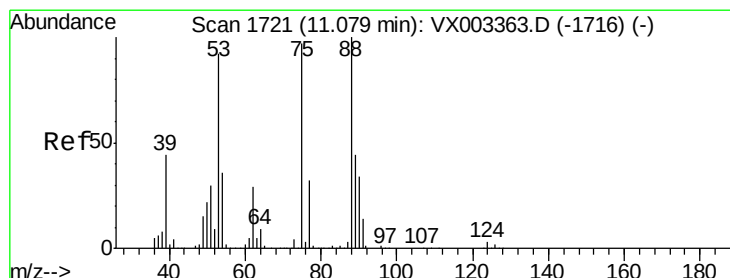
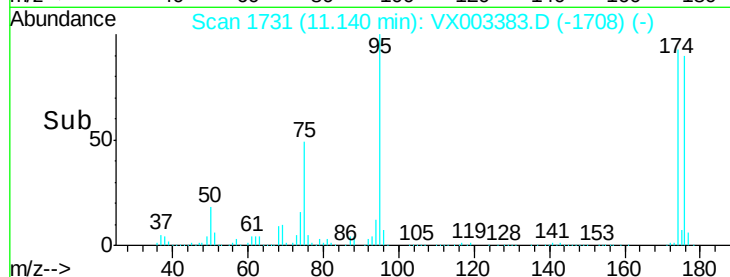
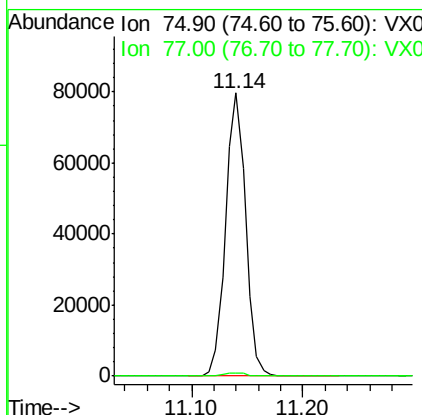
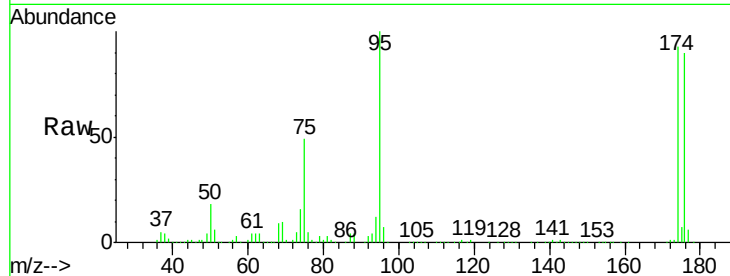




#76
 1,2,3-Trichloropropane
 Concen: 23.63 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003383.D
 Acq: 14 Jul 2018 01:07

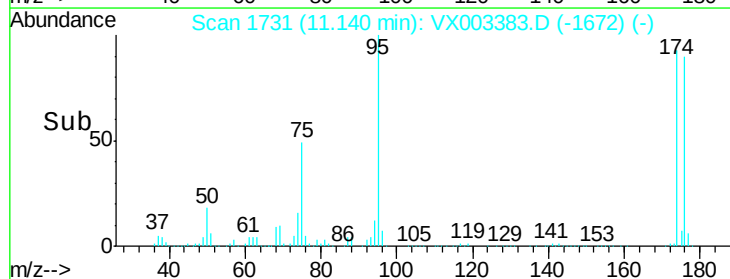
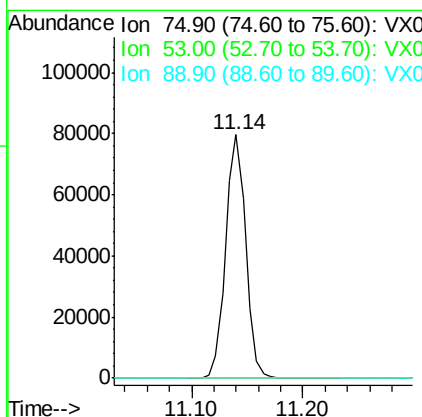
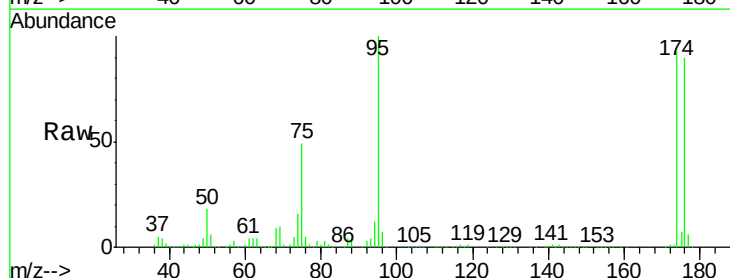
Instrument :
 MSVOA_X
 ClientSampled :
 SU-04-071218

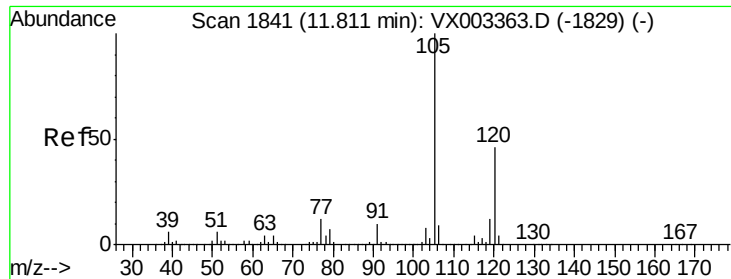
Tot Ion: 75 Resp: 98978
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.77 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003383.D
 Acq: 14 Jul 2018 01:07

Tgt Ion: 75 Resp: 98978
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

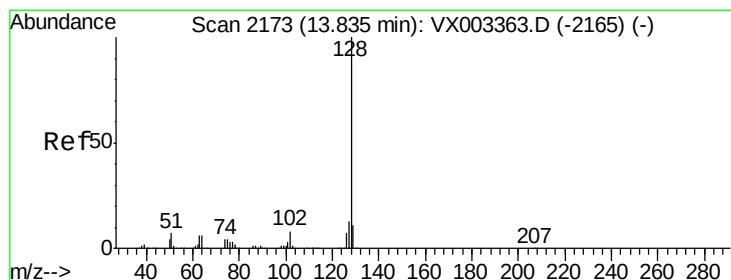
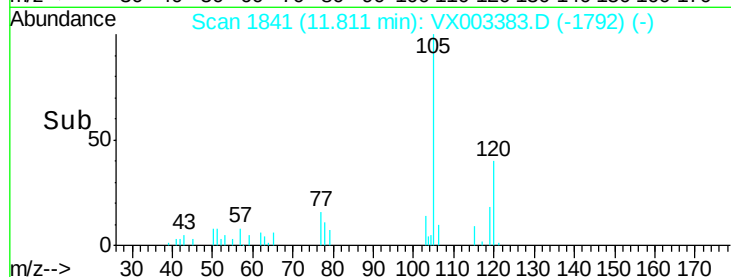
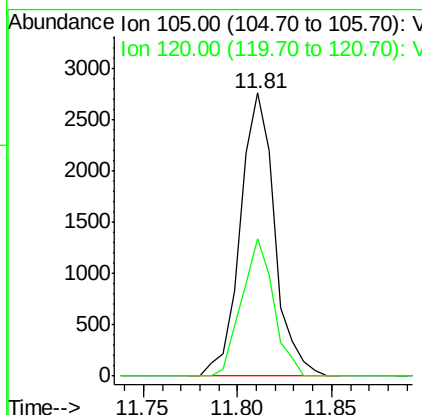
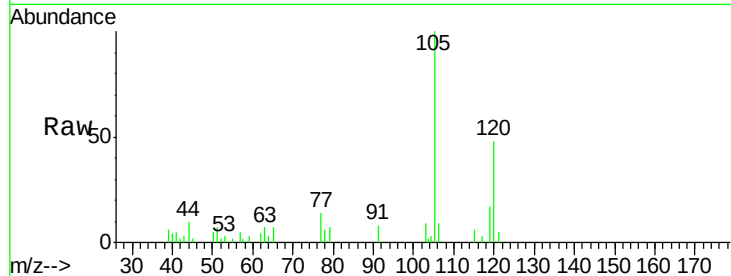




#84
 1,2,4-Trimethylbenzene
 Concen: 0.28 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003383.D
 Acq: 14 Jul 2018 01:07

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-04-071218

Tot Ion:105 Resp: 3478
 Ion Ratio Lower Upper
 105 100
 120 45.0 22.3 66.8



#95
 Naphthalene
 Concen: 29.51 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. 0.01 min
 Lab File: VX003383.D
 Acq: 14 Jul 2018 01:07

Tgt Ion:128 Resp: 438042
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.4 15.6
 129 10.9 8.6 13.0

