

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004394.D
 Acq On : 06 Sep 2018 19:20
 Operator : JC/MD
 Sample : J4781-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-STONES

Quant Time: Sep 07 04:48:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	291520	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	471249	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	452118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	247329	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	202295	53.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.48%	
35) Dibromofluoromethane	5.50	113	180025	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
50) Toluene-d8	8.72	98	672693	50.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.66%	
62) 4-Bromofluorobenzene	11.14	95	236199	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	

Target Compounds

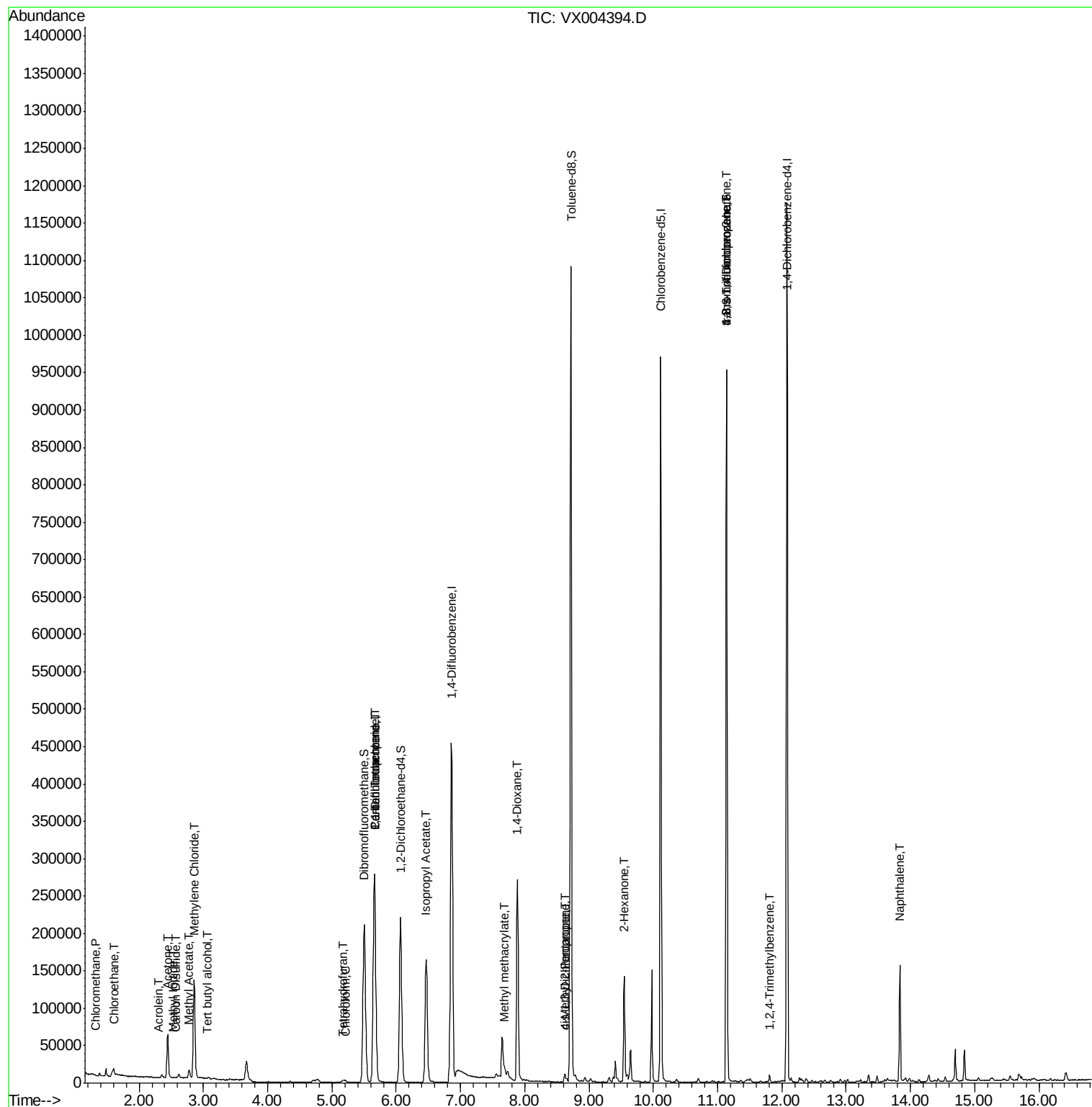
						Qvalue
3) Chloromethane	1.32	50	792	0.50	ug/l	95
5) Bromomethane	1.65	94	973	Below	Cal	85
6) Chloroethane	1.60	64	3718	2.17	ug/l #	73
10) Methyl Iodide	2.52	142	323	4.34	ug/l #	79
11) Tert butyl alcohol	3.07	59	2216	2.74	ug/l #	81
13) Acrolein	2.30	56	324	1.66	ug/l #	35
16) Acetone	2.45	43	62122	33.04	ug/l	100
17) Carbon Disulfide	2.57	76	695	0.88	ug/l #	64
18) Methyl Acetate	2.78	43	13637	2.42	ug/l	97
20) Methylene Chloride	2.85	84	62928	17.20	ug/l	100
25) 2-Butanone	4.71	43	5997	Below	Cal	90
29) Tetrahydrofuran	5.16	42	2475	1.52	ug/l	88
30) Chloroform	5.21	83	2400	0.39	ug/l	90
36) 1,1-Dichloropropene	5.67	75	18723	3.53	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25517	5.12	ug/l #	16
43) Isopropyl Acetate	6.46	43	213821	26.71	ug/l	100
48) Methyl methacrylate	7.69	41	11811	2.76	ug/l #	21
49) 1,4-Dioxane	7.88	88	52	0.53	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	3676	0.63	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1667	0.28	ug/l #	71
59) 2-Hexanone	9.55	43	15337	3.46	ug/l #	51
76) 1,2,3-Trichloropropane	11.14	75	110966	22.06	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	110966	71.58	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	4416	0.32	ug/l	98
94) Hexachlorobutadiene	13.78	225	169	Below	Cal #	28
95) Naphthalene	13.83	128	98372	6.10	ug/l	99

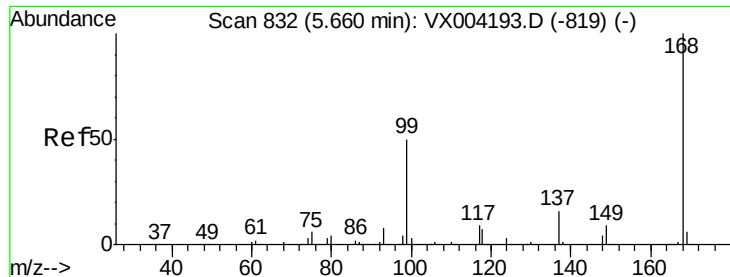
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

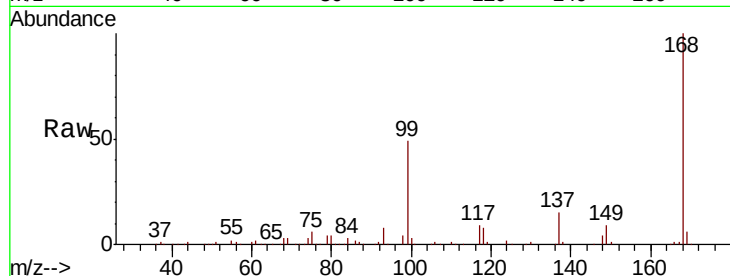
BS-STONES

Tot Ion:168 Resp: 291520

Ion Ratio Lower Upper

168 100

99 48.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

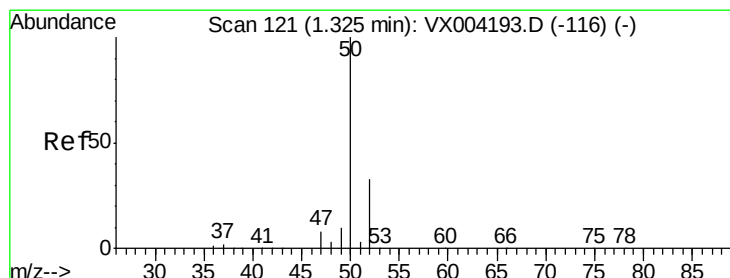
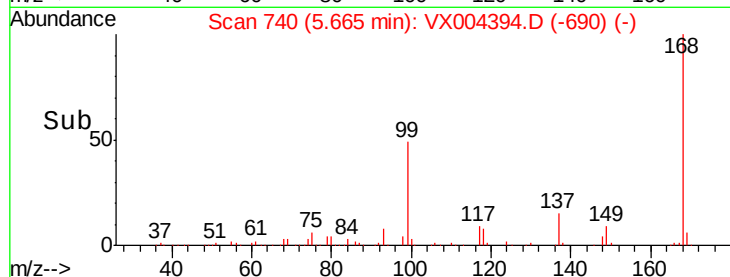
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.50 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004394.D

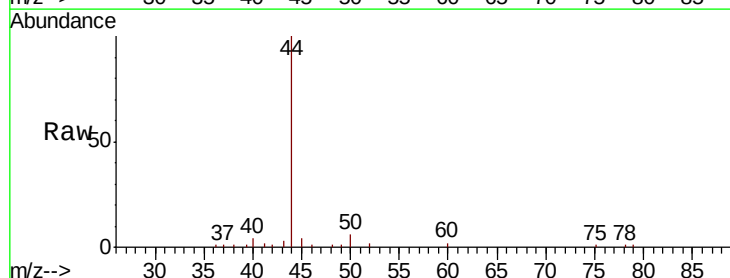
Acq: 06 Sep 2018 19:20

Tgt Ion: 50 Resp: 792

Ion Ratio Lower Upper

50 100

52 30.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

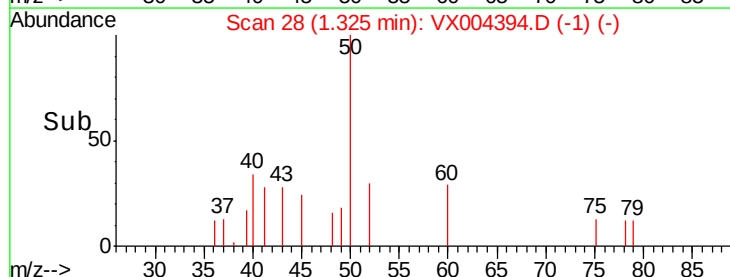
300

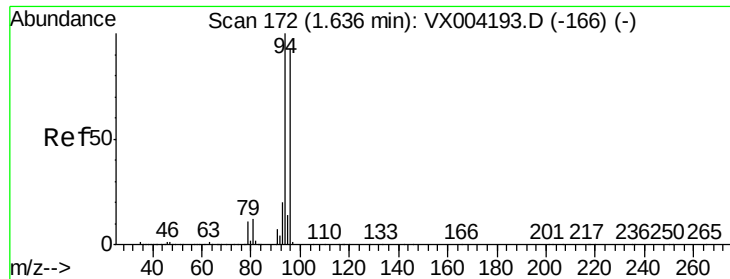
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

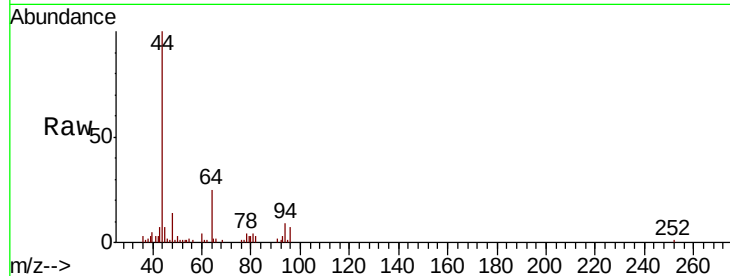
BS-STONES

Tot Ion: 94 Resp: 973

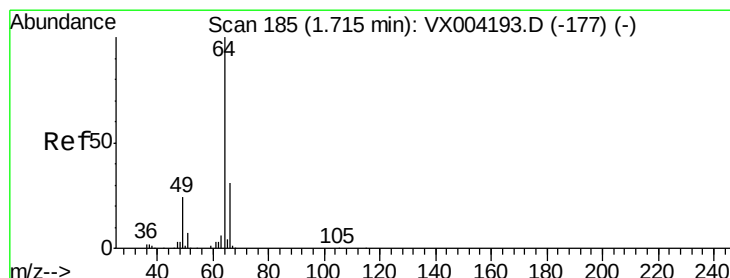
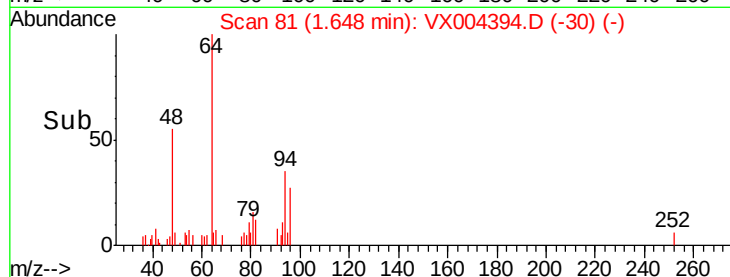
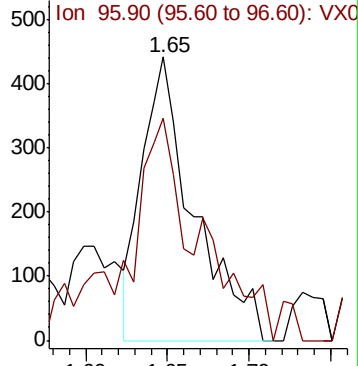
Ion Ratio Lower Upper

94 100

96 78.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 2.17 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX004394.D

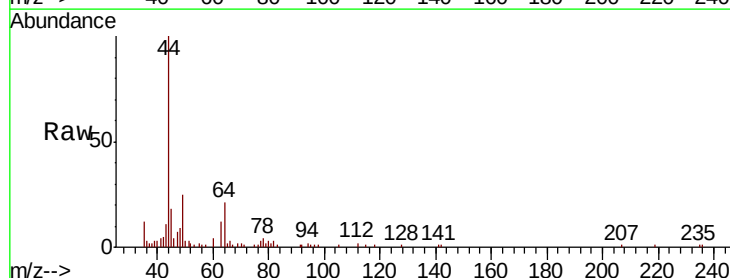
Acq: 06 Sep 2018 19:20

Tgt Ion: 64 Resp: 3718

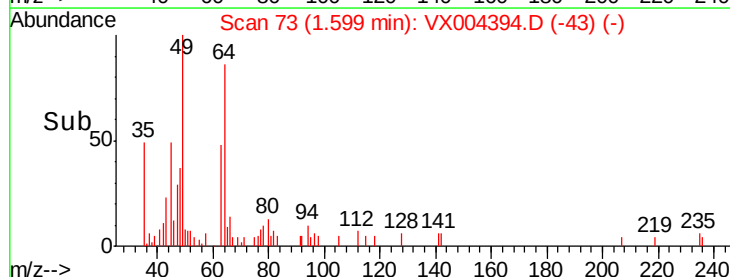
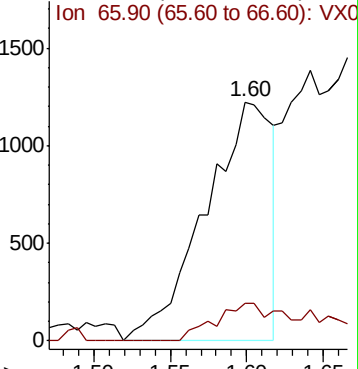
Ion Ratio Lower Upper

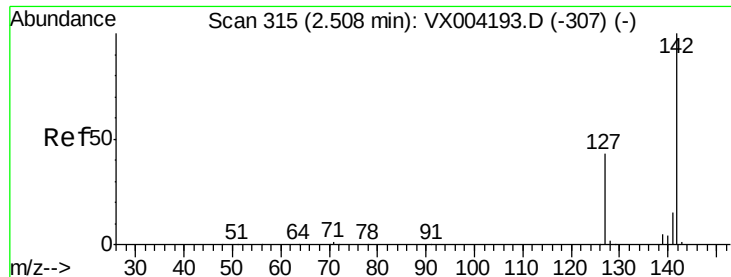
64 100

66 15.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

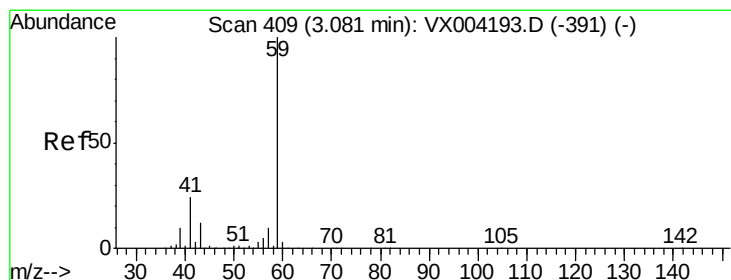
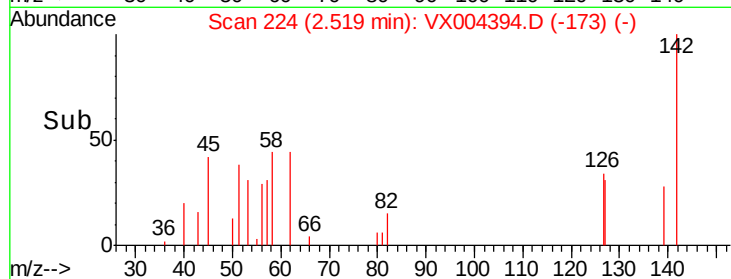
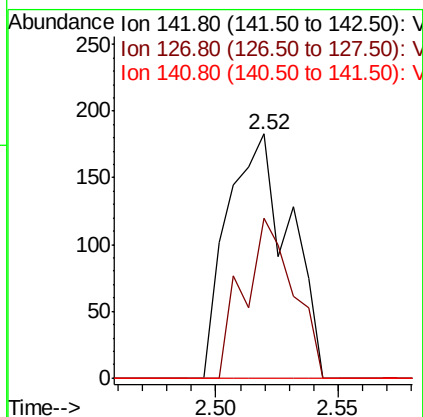
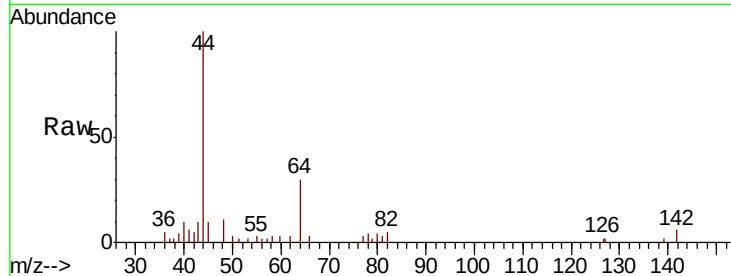




#10
Methyl Iodide
Concen: 4.34 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

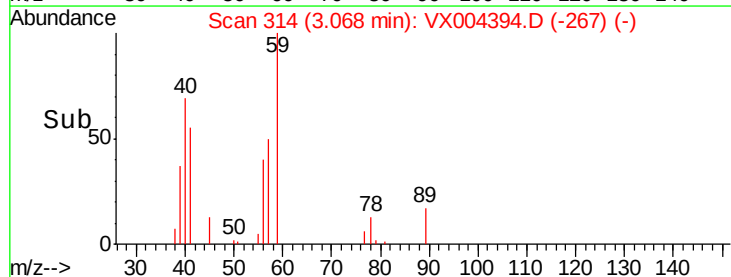
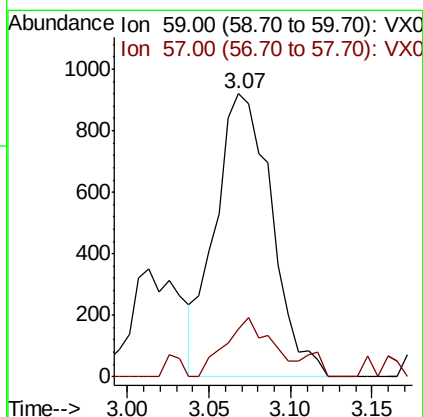
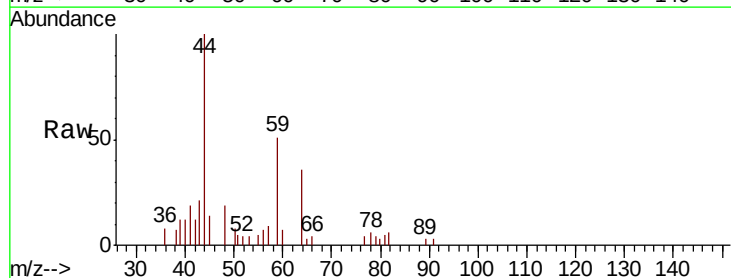
Instrument :
MSVOA_X
ClientSampleId :
BS-STONES

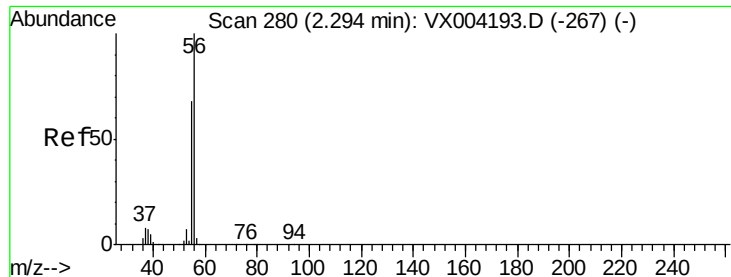
Tot Ion:142 Resp: 323
Ion Ratio Lower Upper
142 100
127 52.6 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.74 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

Tgt Ion: 59 Resp: 2216
Ion Ratio Lower Upper
59 100
57 17.6 8.2 12.4#





#13

Acrolein

Concen: 1.66 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

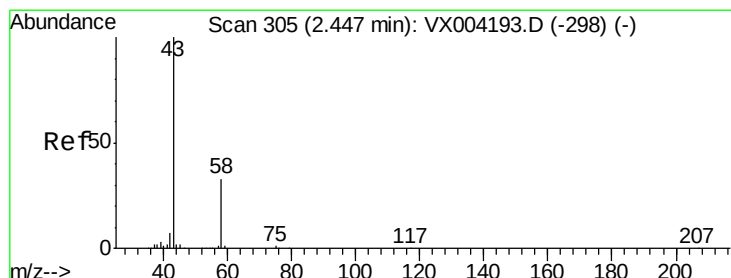
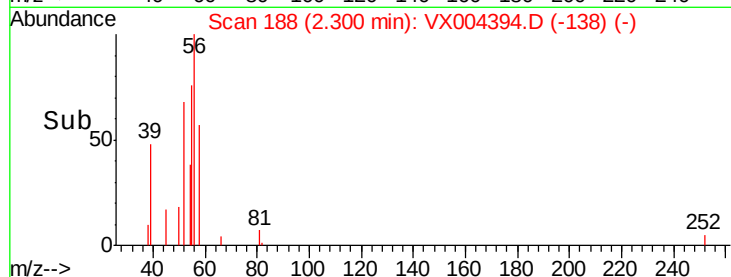
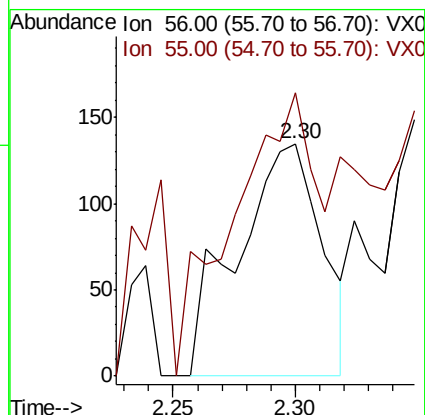
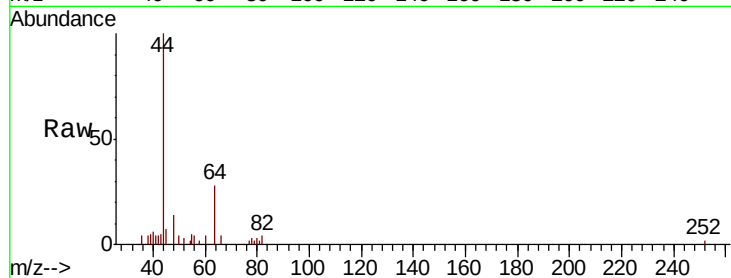
BS-STONES

Tot Ion: 56 Resp: 324

Ion Ratio Lower Upper

56 100

55 120.7 54.7 82.1#



#16

Acetone

Concen: 33.04 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004394.D

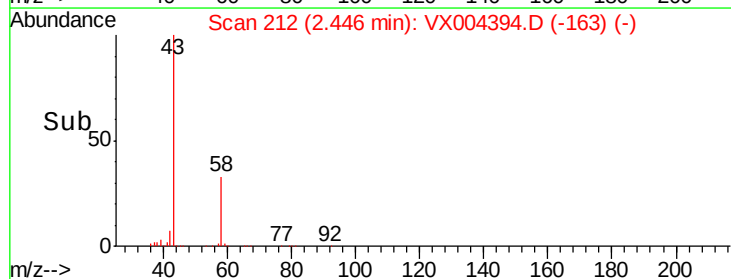
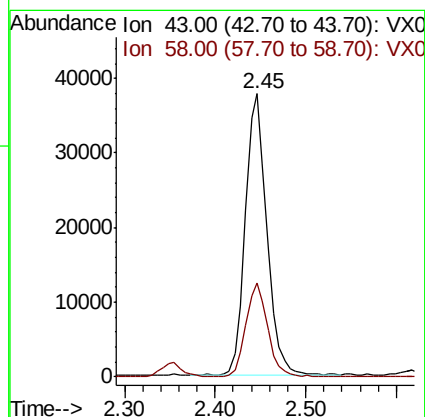
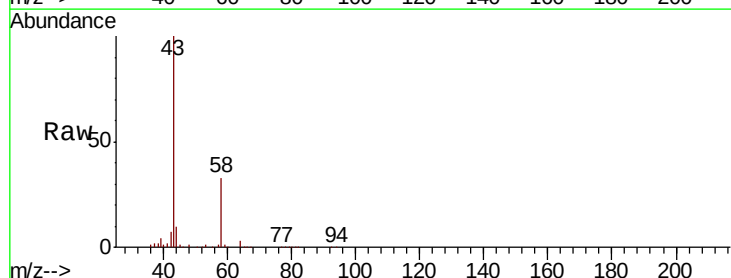
Acq: 06 Sep 2018 19:20

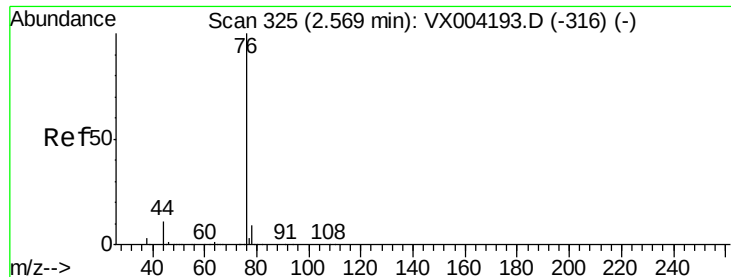
Tgt Ion: 43 Resp: 62122

Ion Ratio Lower Upper

43 100

58 33.0 26.2 39.4





#17

Carbon Disulfide

Concen: 0.88 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

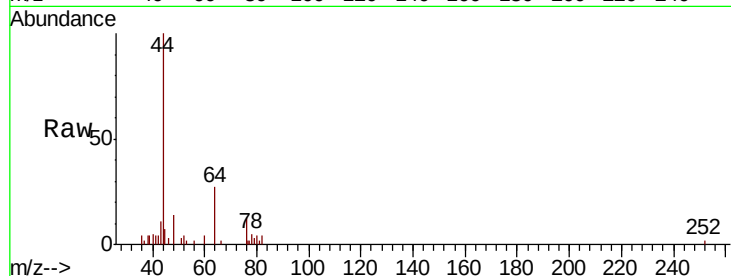
BS-STONES

Tot Ion: 76 Resp: 695

Ion Ratio Lower Upper

76 100

78 21.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

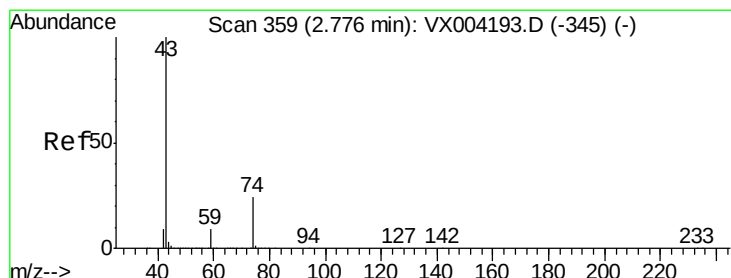
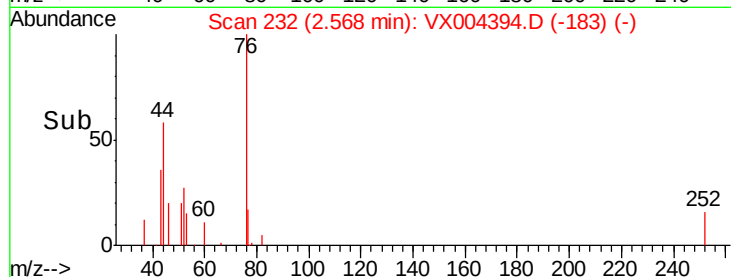
300

200

100

0

Time--> 2.50 2.55 2.60



#18

Methyl Acetate

Concen: 2.42 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004394.D

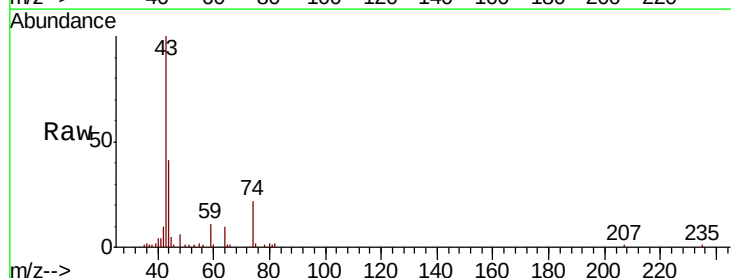
Acq: 06 Sep 2018 19:20

Tgt Ion: 43 Resp: 13637

Ion Ratio Lower Upper

43 100

74 25.6 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

8000

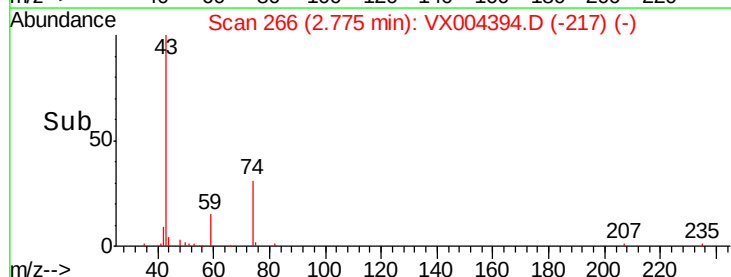
6000

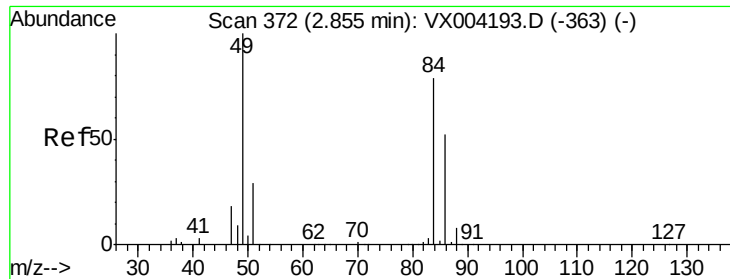
4000

2000

0

Time--> 2.70 2.75 2.80 2.85

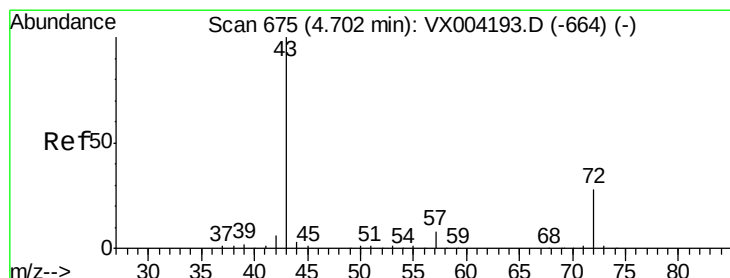
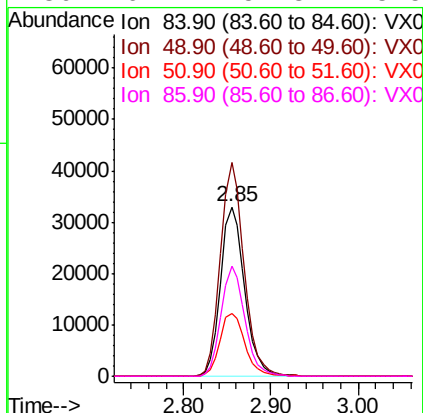
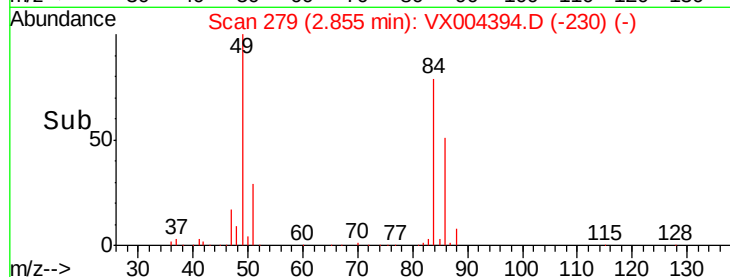
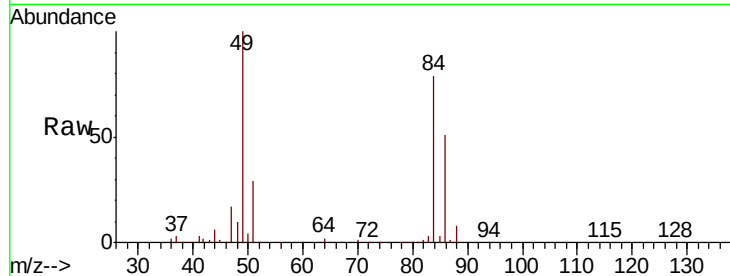




#20
Methylene Chloride
Concen: 17.20 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

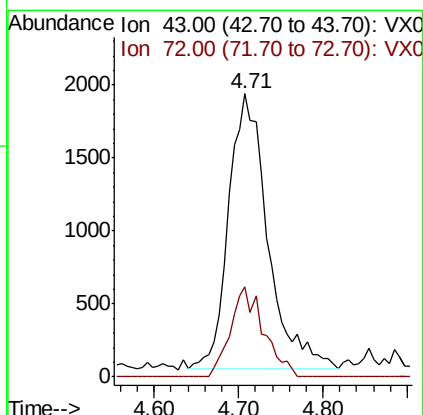
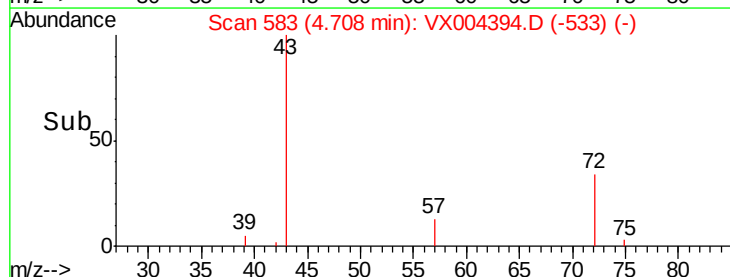
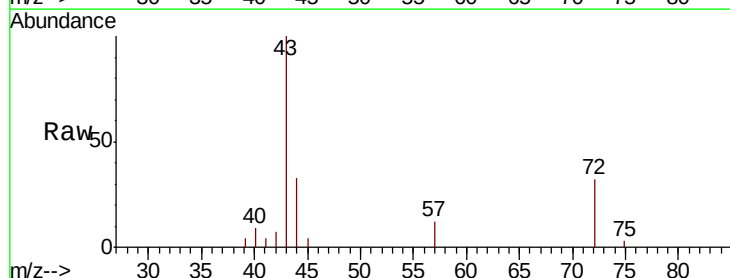
Instrument :
MSVOA_X
ClientSampled :
BS-STONES

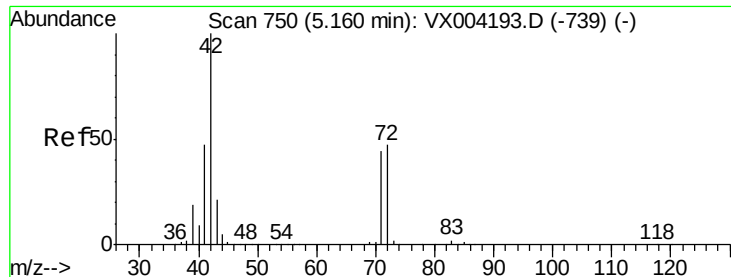
Tot Ion: 84 Resp: 62928
Ion Ratio Lower Upper
84 100
49 126.3 101.2 151.8
51 36.5 29.5 44.3
86 64.7 52.3 78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

Tgt Ion: 43 Resp: 5997
Ion Ratio Lower Upper
43 100
72 32.6 22.0 33.0





#29

Tetrahydrofuran

Concen: 1.52 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampled :

BS-STONES

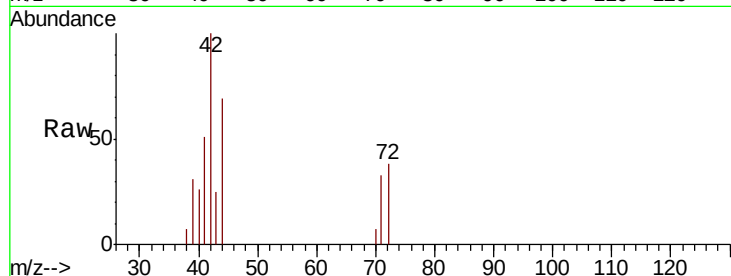
Tot Ion: 42 Resp: 2475

Ion Ratio Lower Upper

42 100

72 38.3 37.4 56.0

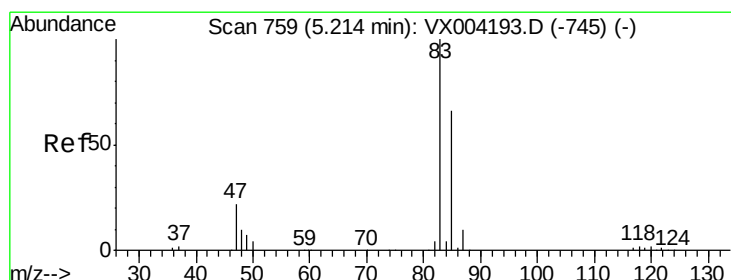
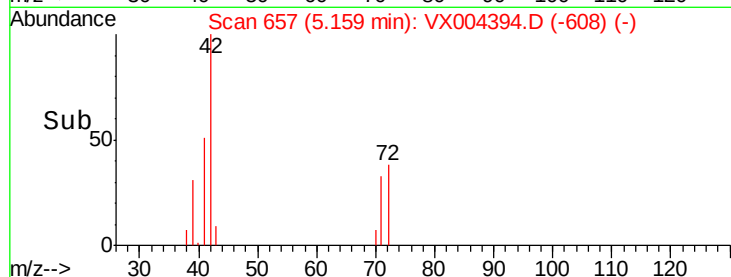
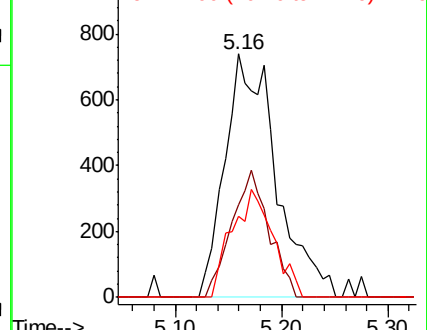
71 36.0 34.5 51.7



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: 0.39 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX004394.D

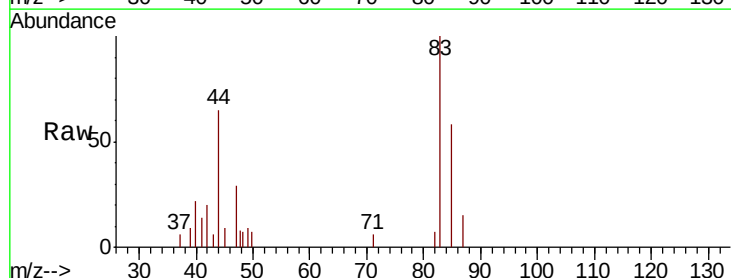
Acq: 06 Sep 2018 19:20

Tgt Ion: 83 Resp: 2400

Ion Ratio Lower Upper

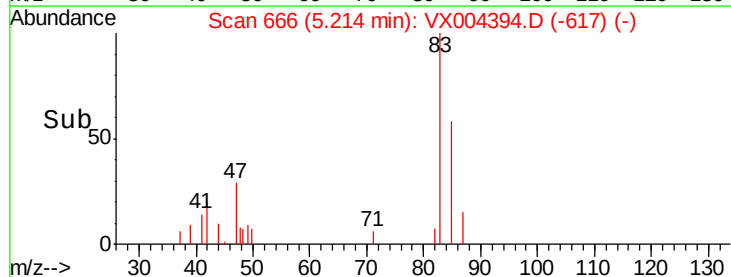
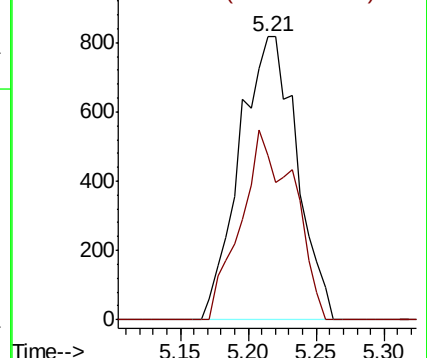
83 100

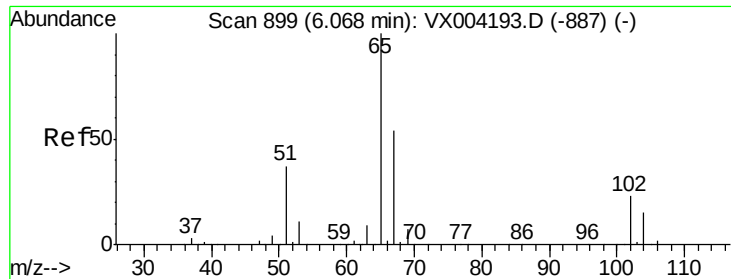
85 57.9 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

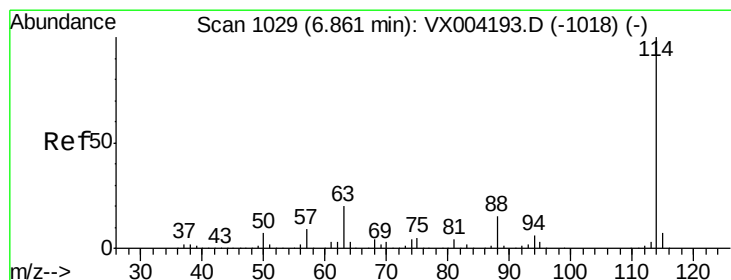
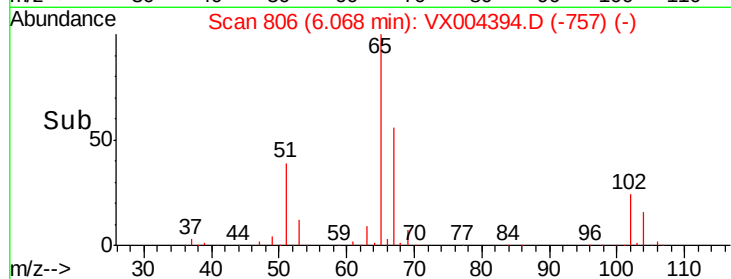
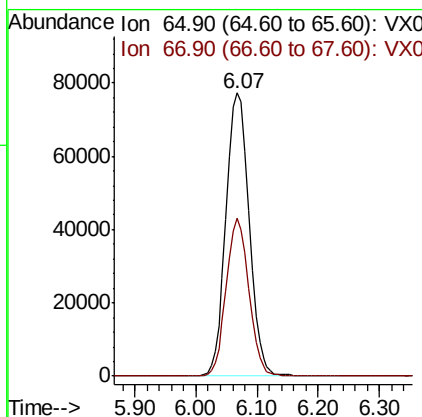
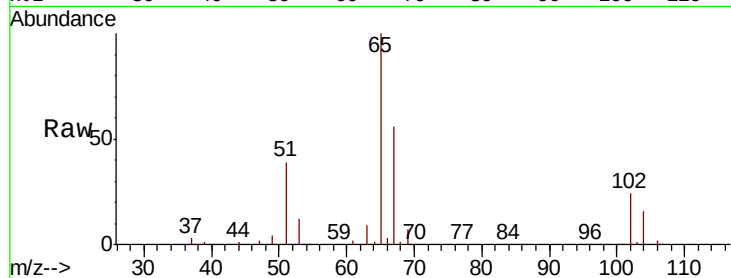




#33
 1,2-Dichloroethane-d4
 Concen: 53.24 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

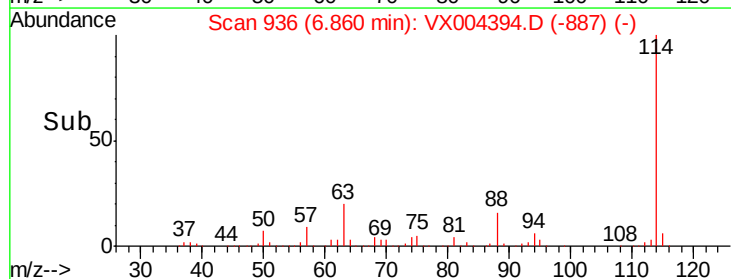
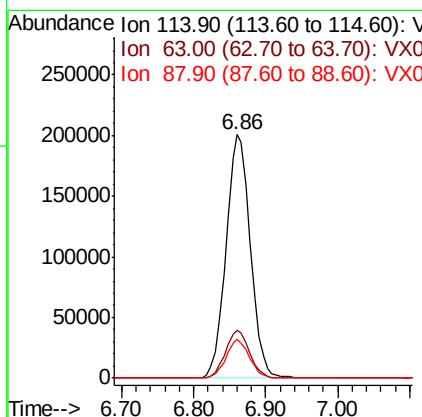
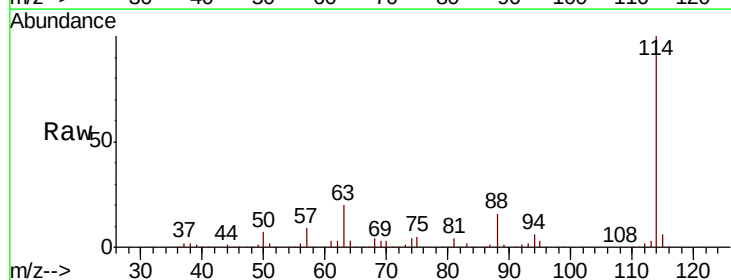
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-STONES

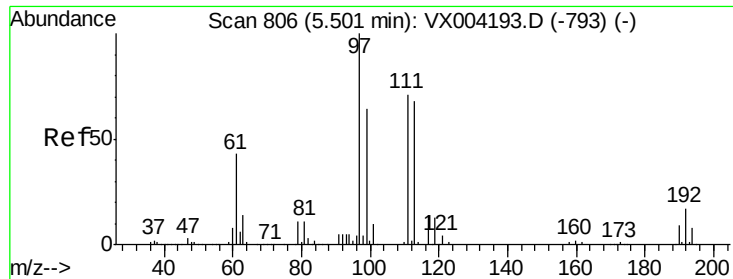
Tot Ion: 65 Resp: 202295
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

Tgt Ion: 114 Resp: 471249
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.9 0.0 30.4

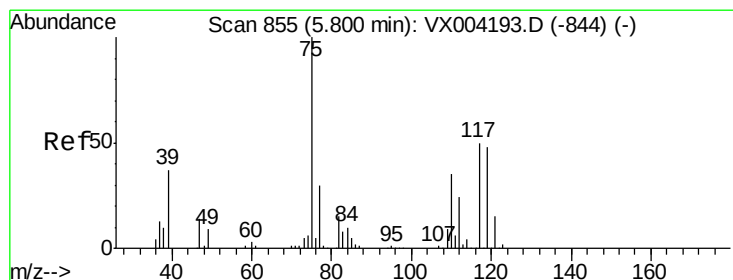
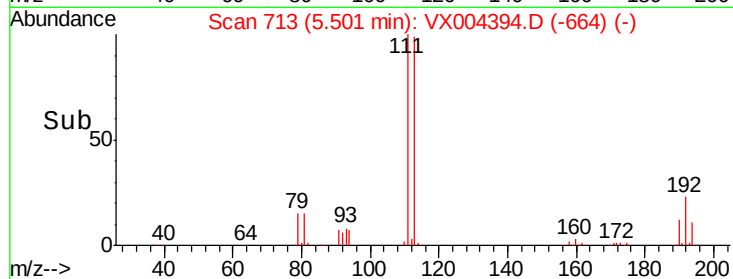
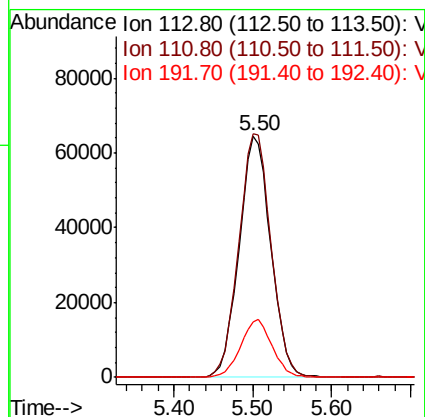
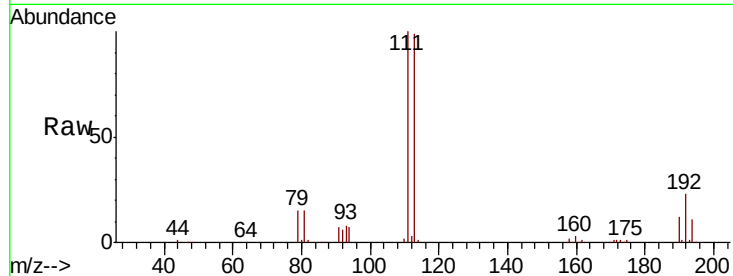




#35
 Dibromofluoromethane
 Concen: 51.35 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

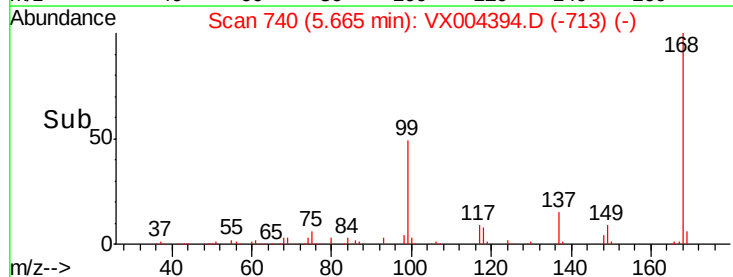
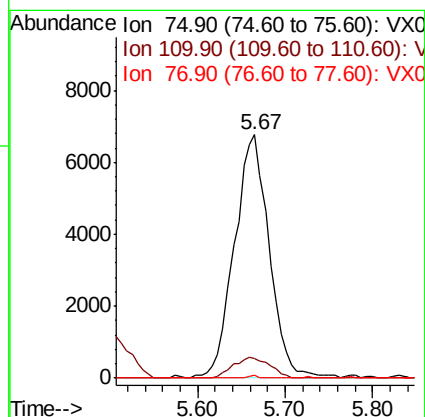
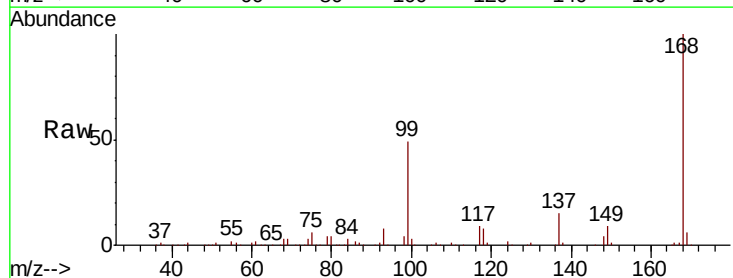
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-STONES

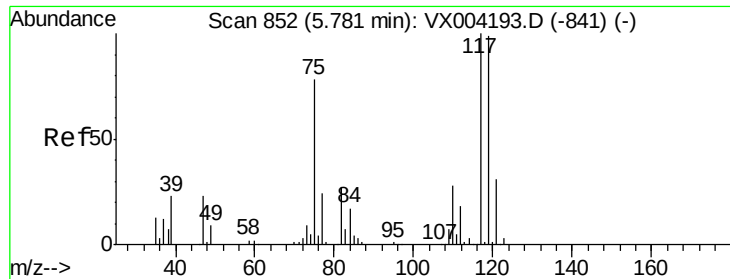
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	23.9	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.53 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.0	54.0#
77	0.2	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampled :

BS-STONES

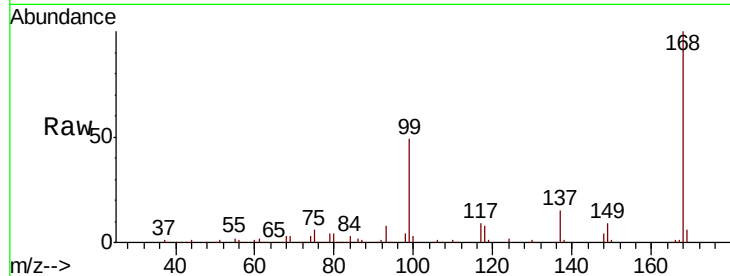
Tot Ion:117 Resp: 25517

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

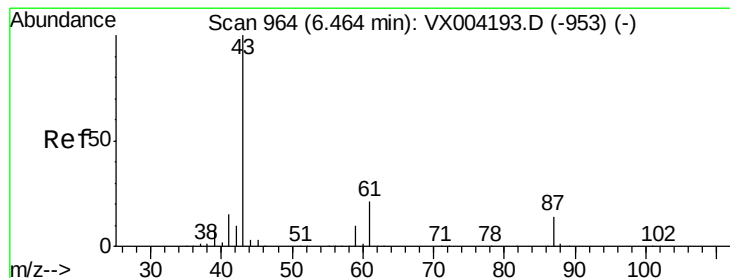
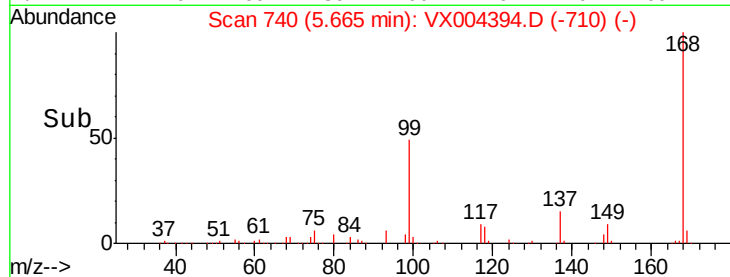
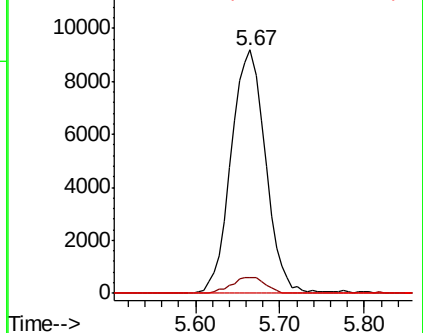
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 26.71 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

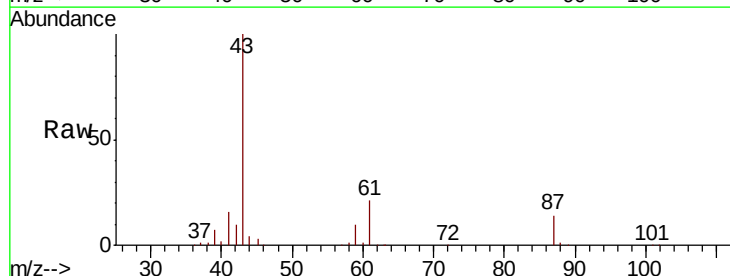
Tgt Ion: 43 Resp: 213821

Ion Ratio Lower Upper

43 100

61 21.1 17.0 25.4

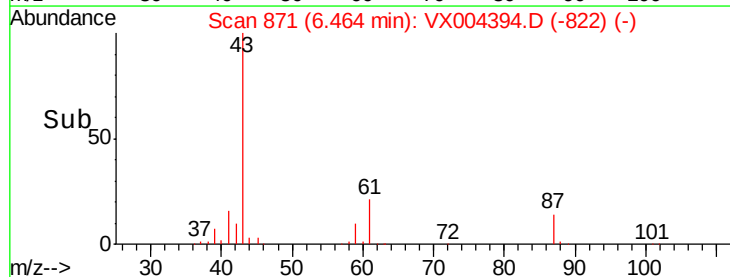
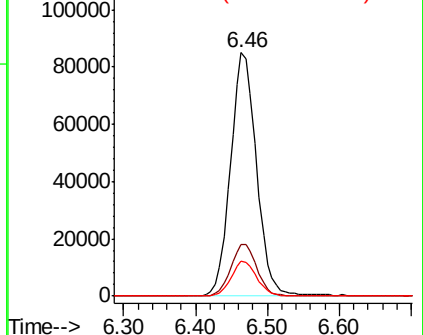
87 14.0 11.4 17.2

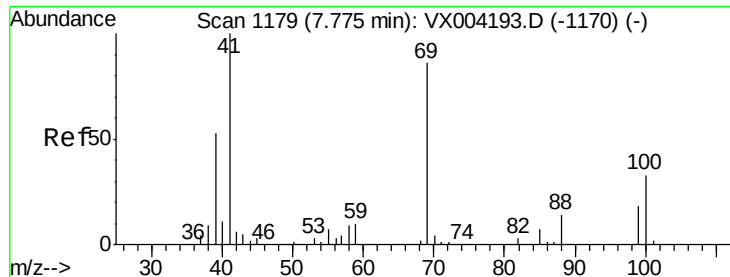


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

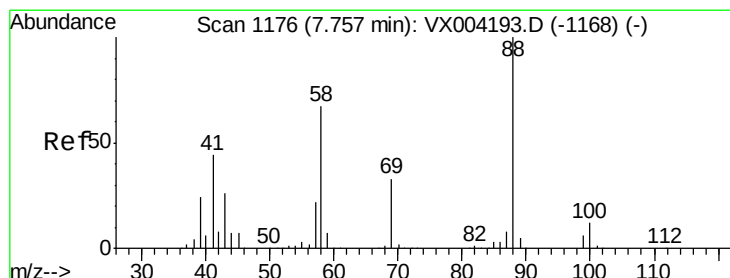
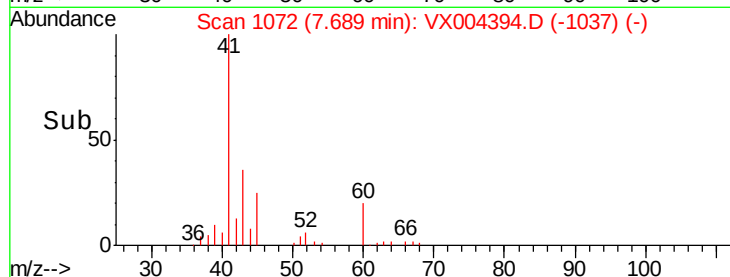
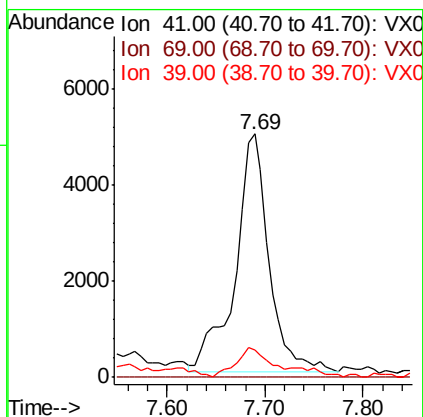
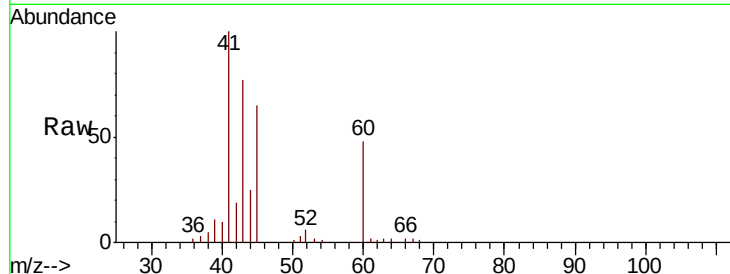




#48
Methvl methacrylate
Concen: 2.76 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

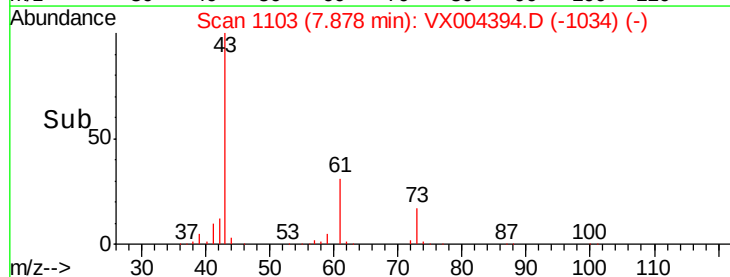
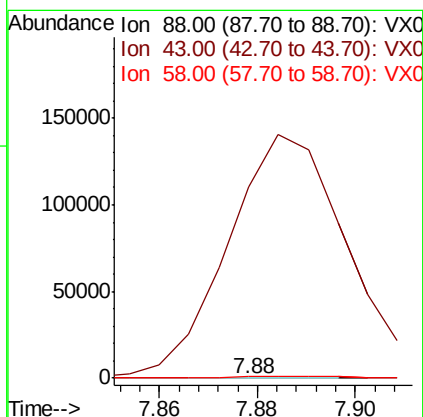
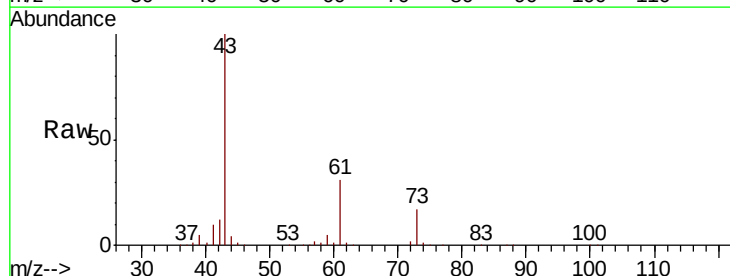
Instrument :
MSVOA_X
ClientSampleId :
BS-STONES

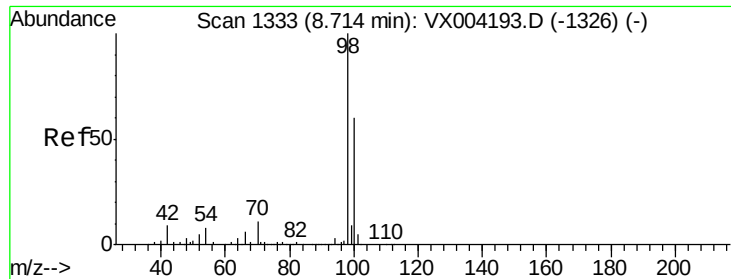
Tot Ion: 41 Resp: 11811
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 15.9 42.7 64.1#



#49
1,4-Dioxane
Concen: 0.53 ug/l
RT: 7.88 min Scan# 1103
Delta R.T. 0.12 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

Tgt Ion: 88 Resp: 52
Ion Ratio Lower Upper
88 100
43 460494.2 24.7 37.1#
58 3584.6 55.3 82.9#

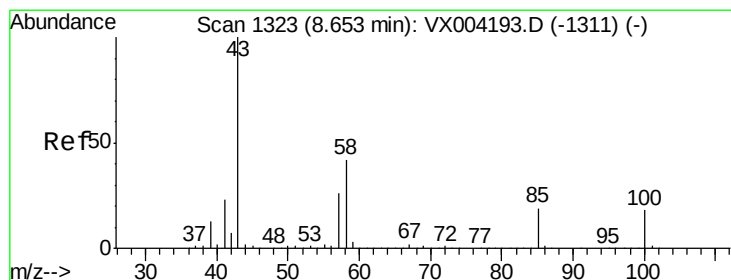
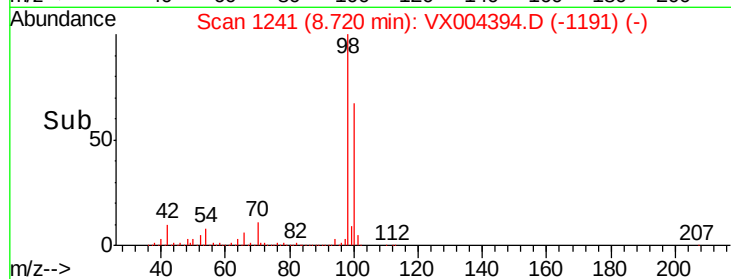
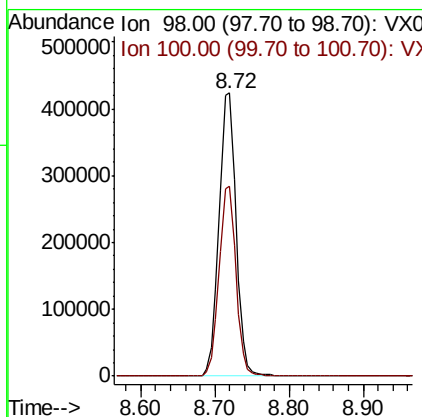
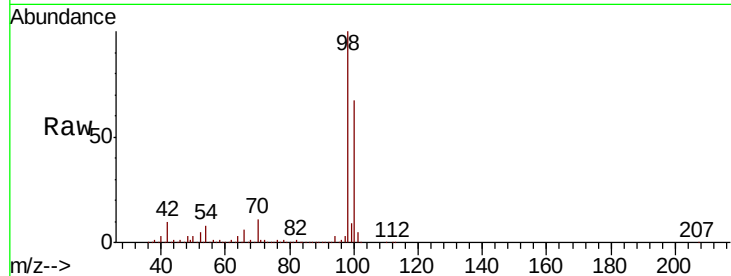




#50
Toluene-d8
Concen: 50.83 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

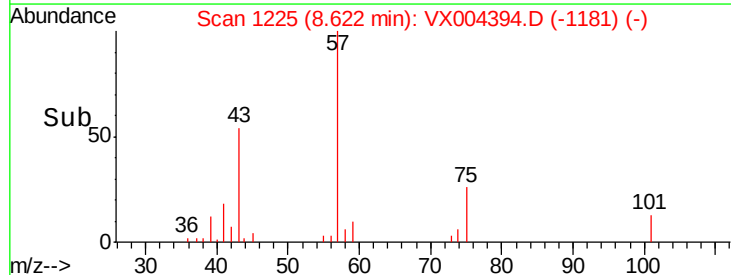
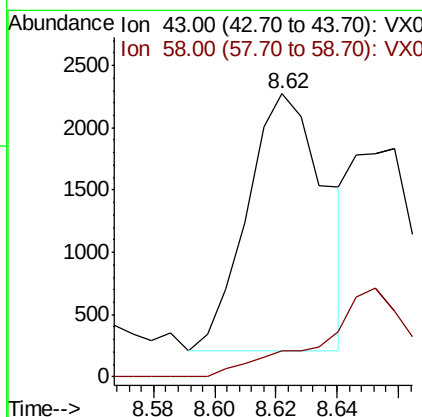
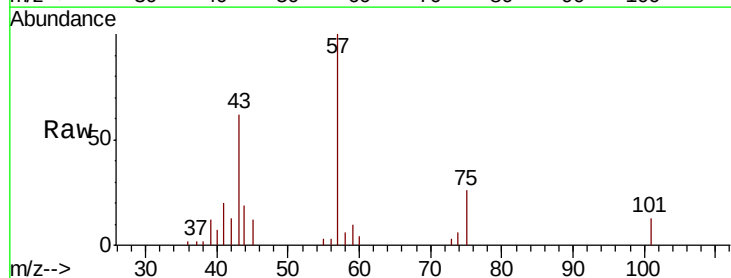
Instrument :
MSVOA_X
ClientSampleId :
BS-STONES

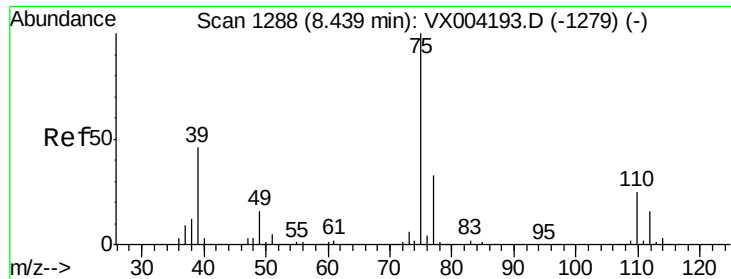
Tot Ion: 98 Resp: 672693
Ion Ratio Lower Upper
98 100
100 66.5 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.63 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

Tgt Ion: 43 Resp: 3676
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

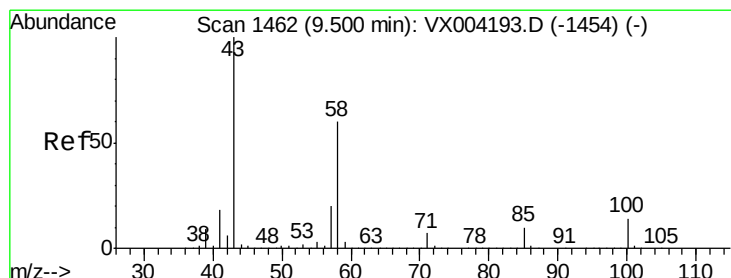
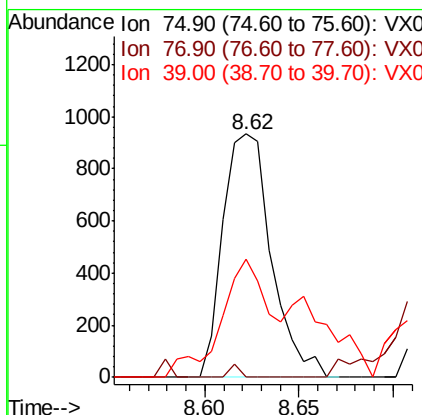
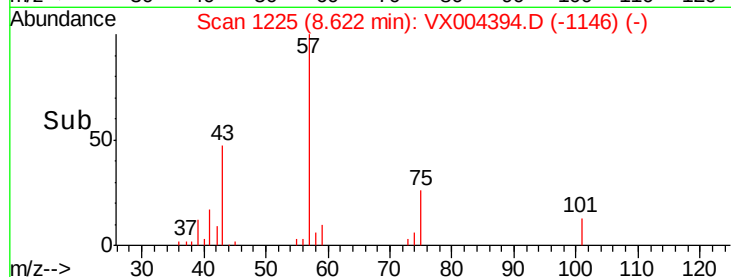
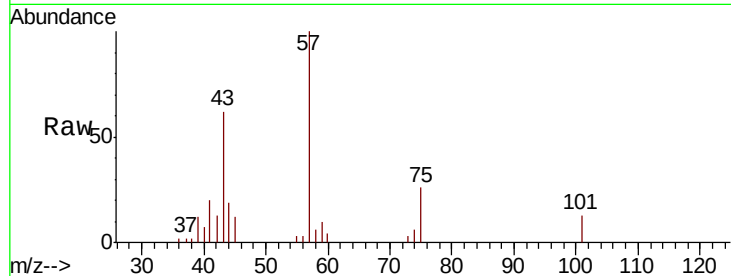




#54
 cis-1,3-Dichloropropene
 Concen: 0.28 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

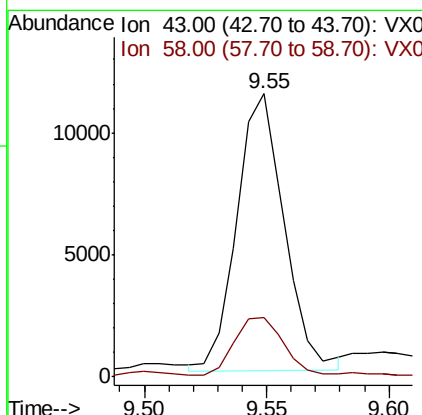
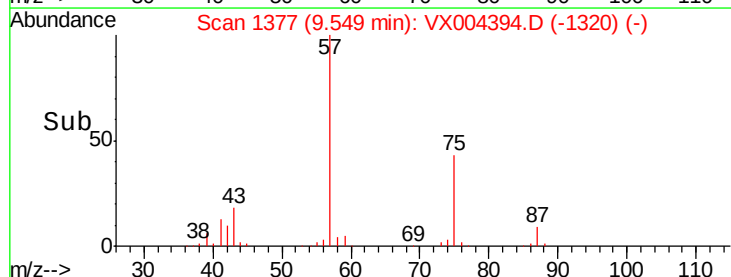
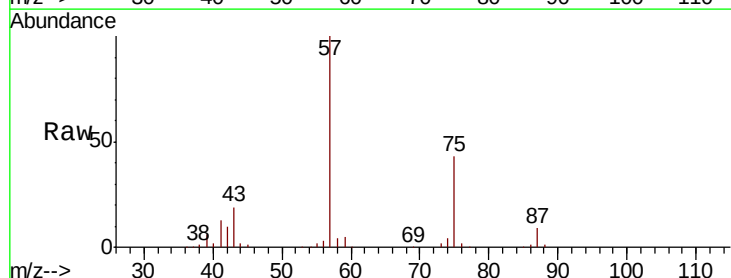
Instrument :
 MSVOA_X
 ClientSampled :
 BS-STONES

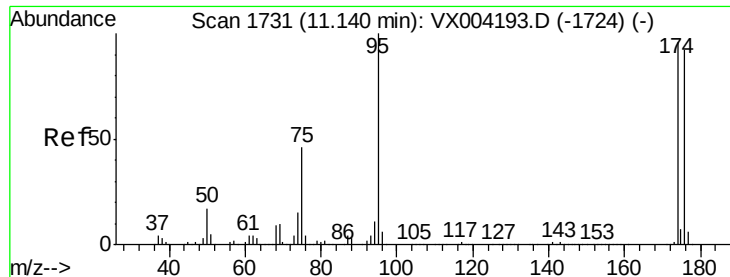
Tot Ion: 75 Resp: 1667
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 40.0 36.4 54.6



#59
 2-Hexanone
 Concen: 3.46 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

Tgt Ion: 43 Resp: 15337
 Ion Ratio Lower Upper
 43 100
 58 21.3 29.0 87.0#

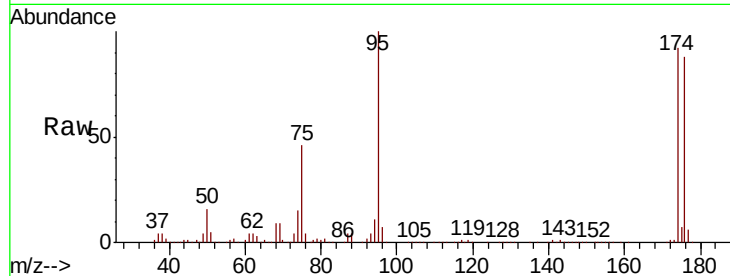




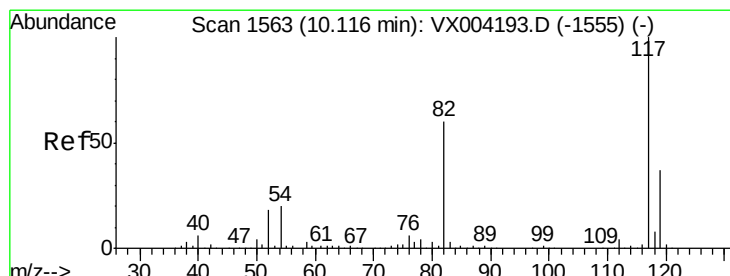
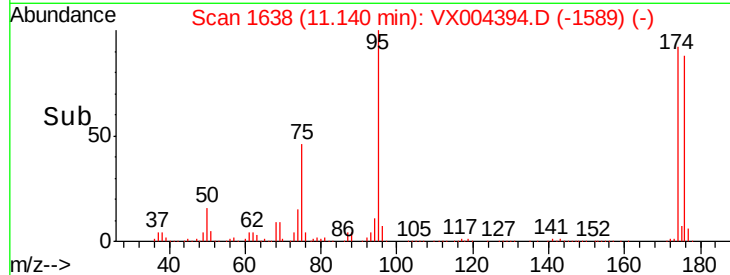
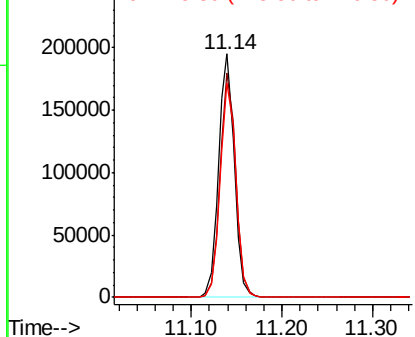
#62
 4-Bromofluorobenzene
 Concen: 47.84 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

Instrument :
 MSVOA_X
 ClientSampled :
 BS-STONES

Tot Ion: 95 Resp: 236199
 Ion Ratio Lower Upper
 95 100
 174 92.0 0.0 185.2
 176 88.5 0.0 178.6

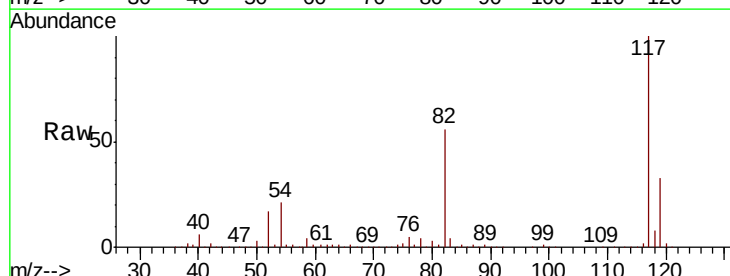


Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

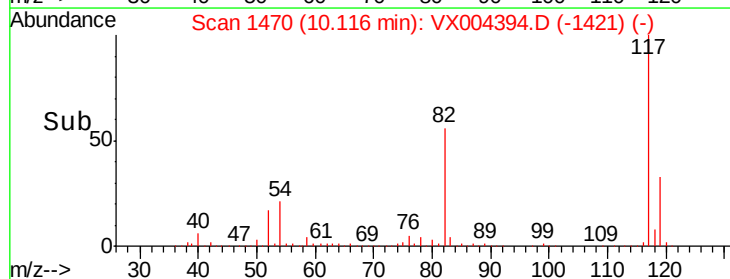
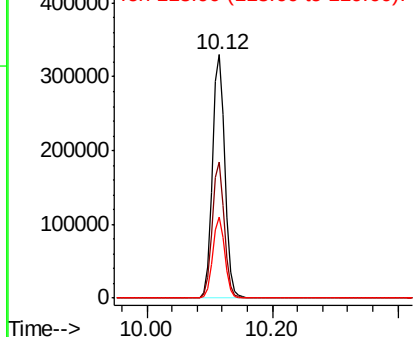


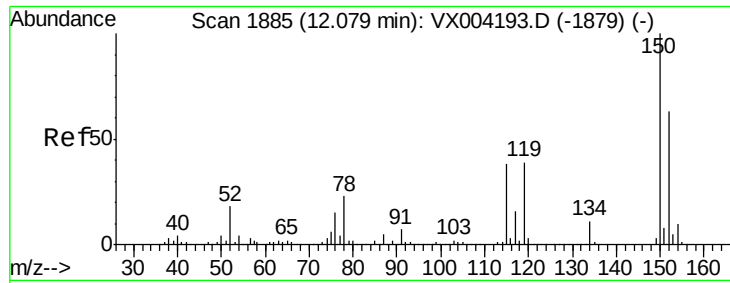
#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1470
 Delta R.T. -0.00 min
 Lab File: VX004394.D
 Acq: 06 Sep 2018 19:20

Tgt Ion: 117 Resp: 452118
 Ion Ratio Lower Upper
 117 100
 82 55.9 47.8 71.6
 119 33.4 29.3 43.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

BS-STONES

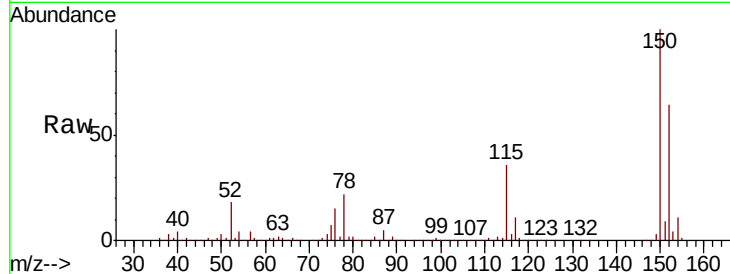
Tot Ion:152 Resp: 247329

Ion Ratio Lower Upper

152 100

115 54.0 39.0 117.0

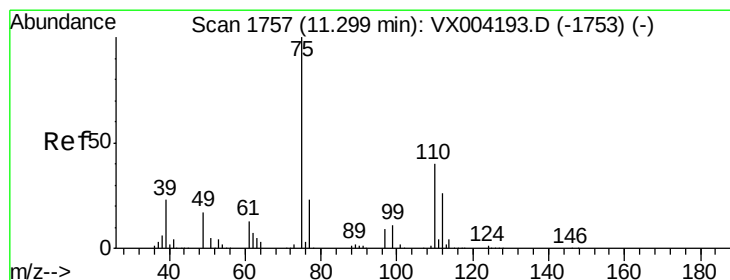
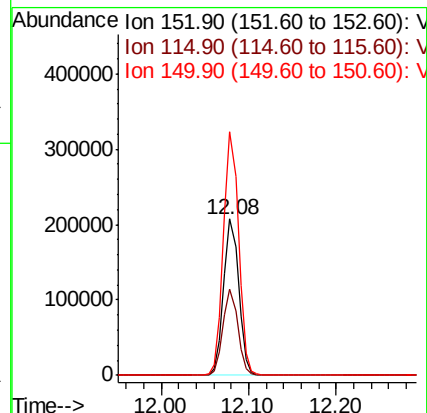
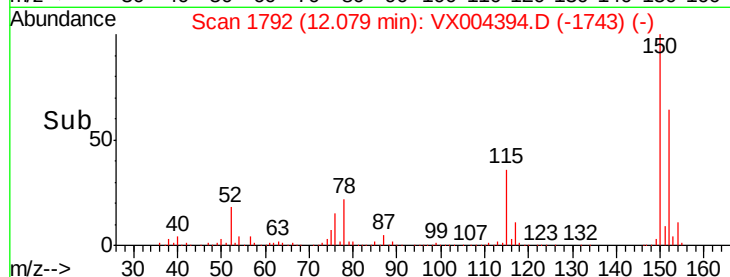
150 156.1 0.0 351.0



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: 22.06 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004394.D

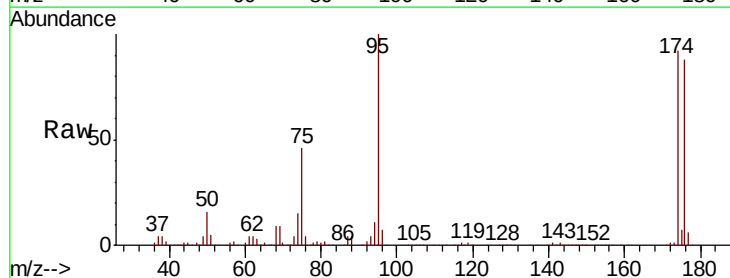
Acq: 06 Sep 2018 19:20

Tgt Ion: 75 Resp: 110966

Ion Ratio Lower Upper

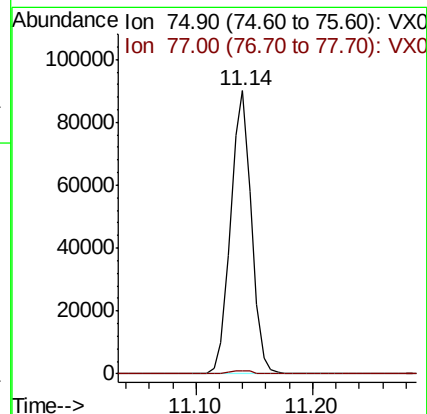
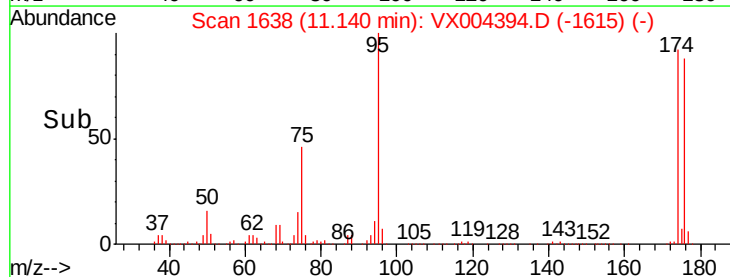
75 100

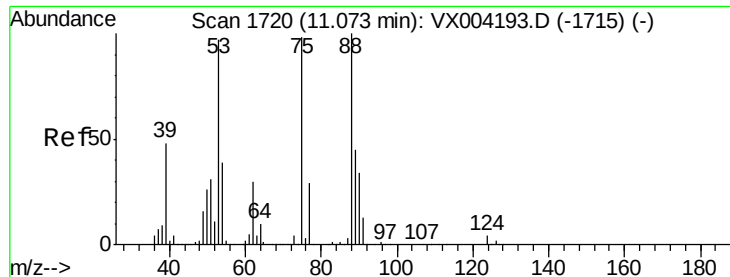
77 1.3 20.2 60.6#



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: 71.58 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004394.D

Acq: 06 Sep 2018 19:20

Instrument :

MSVOA_X

ClientSampled :

BS-STONES

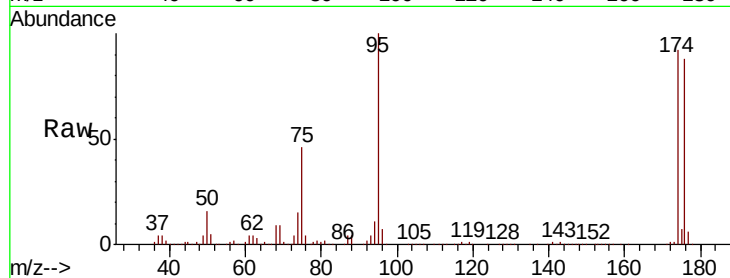
Tot Ion: 75 Resp: 110966

Ion Ratio Lower Upper

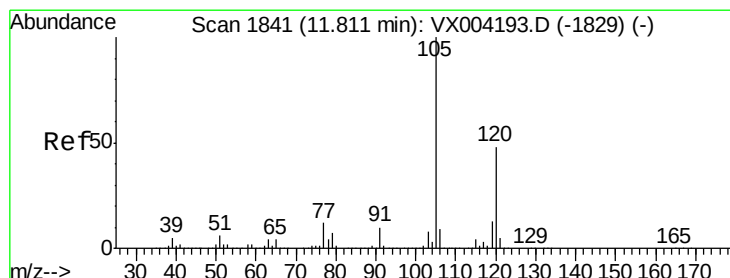
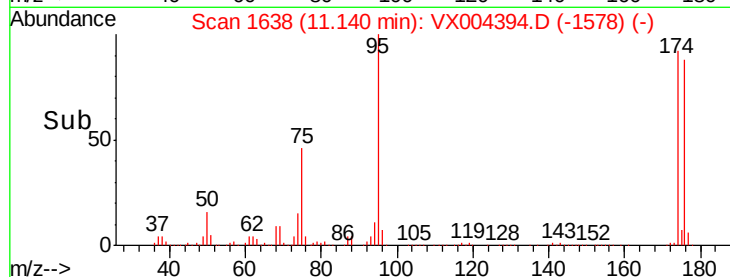
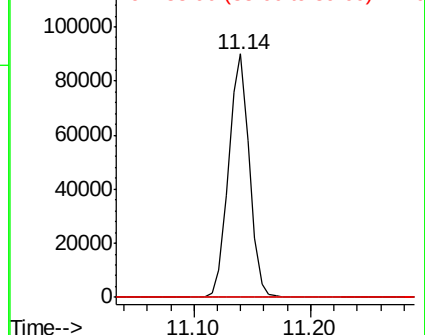
75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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: 0.32 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VX004394.D

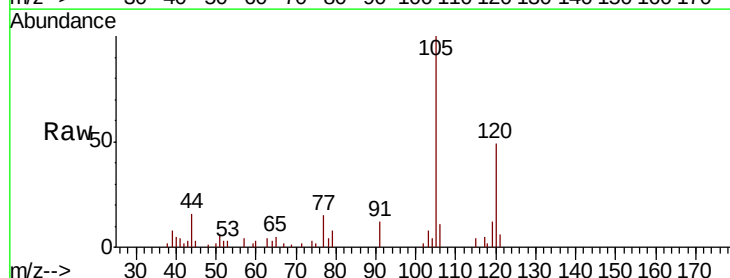
Acq: 06 Sep 2018 19:20

Tgt Ion:105 Resp: 4416

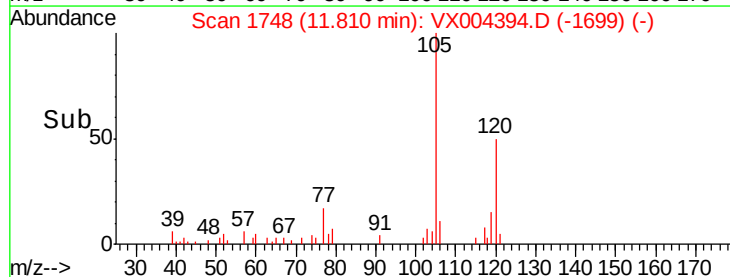
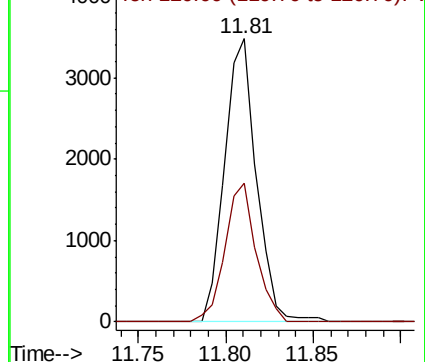
Ion Ratio Lower Upper

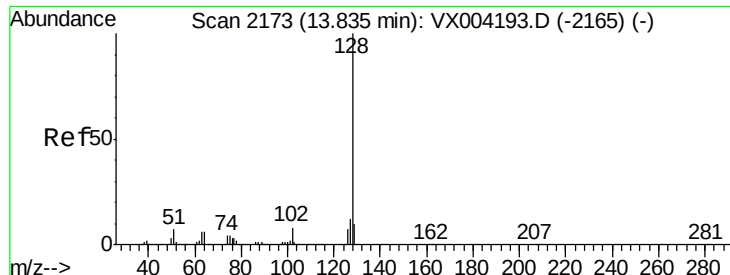
105 100

120 47.7 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 6.10 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX004394.D
Acq: 06 Sep 2018 19:20

Instrument :
MSVOA_X
ClientSampleId :
BS-STONES

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.2	8.6	12.8

