

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082318\
 Data File : VX004217.D
 Acq On : 23 Aug 2018 11:01
 Operator : JC/MD
 Sample : J4295-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPBLANK

Quant Time: Aug 24 09:35:56 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	319830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	495711	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	448655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	259476	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	214434	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
35) Dibromofluoromethane	5.50	113	186224	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	8.71	98	693870	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.14	95	246641	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	

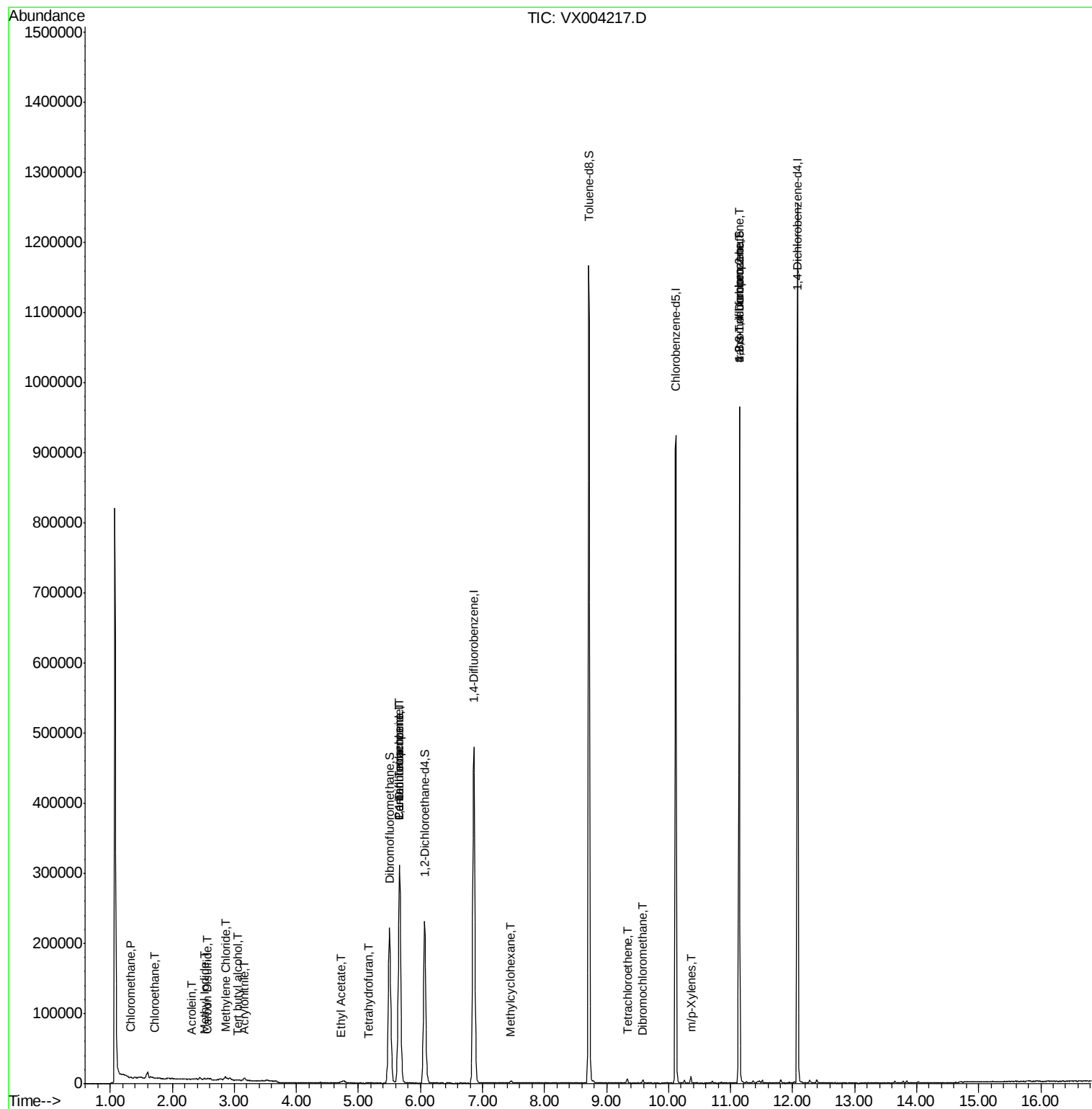
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1519	0.66	ug/l	98
5) Bromomethane	1.65	94	1282	Below Cal		97
6) Chloroethane	1.72	64	1286	1.35	ug/l #	44
10) Methyl Iodide	2.52	142	1766	4.66	ug/l	97
11) Tert butyl alcohol	3.06	59	774	0.87	ug/l	99
13) Acrolein	2.30	56	153	0.71	ug/l #	1
15) Acrylonitrile	3.15	53	801	0.36	ug/l #	74
16) Acetone	2.44	43	3174	Below Cal		90
17) Carbon Disulfide	2.57	76	2409	1.05	ug/l #	93
20) Methylene Chloride	2.86	84	1559	0.39	ug/l	91
25) 2-Butanone	4.71	43	2727	Below Cal		99
29) Tetrahydrofuran	5.17	42	676	0.38	ug/l #	61
36) 1,1-Dichloropropene	5.67	75	21133	3.79	ug/l #	49
37) Ethyl Acetate	4.71	43	2727	0.50	ug/l #	67
38) Carbon Tetrachloride	5.66	117	27708	5.29	ug/l #	17
39) Methylcyclohexane	7.46	83	1319	0.21	ug/l	92
60) Dibromochloromethane	9.58	129	830	0.20	ug/l	97
64) Tetrachloroethene	9.34	164	1194	0.27	ug/l	89
68) m/p-Xylenes	10.36	106	2341	0.33	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	118390	22.43	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	118390	72.79	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

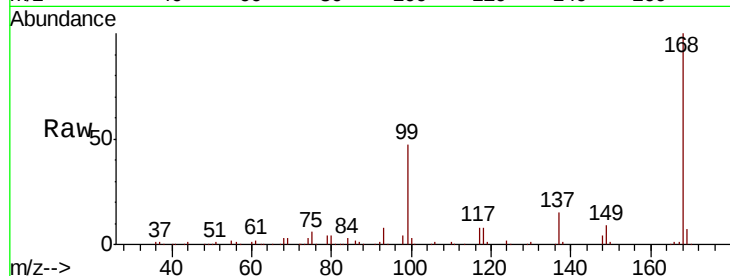
TRIPBLANK

Tot Ion:168 Resp: 319830

Ion Ratio Lower Upper

168 100

99 47.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

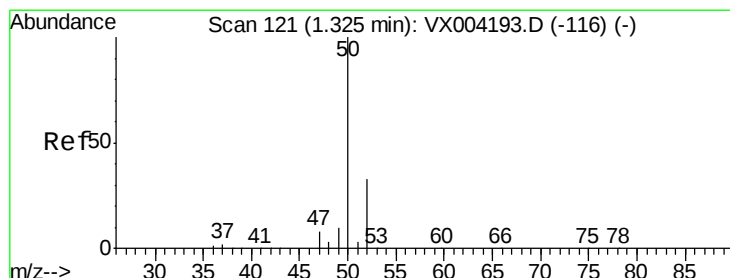
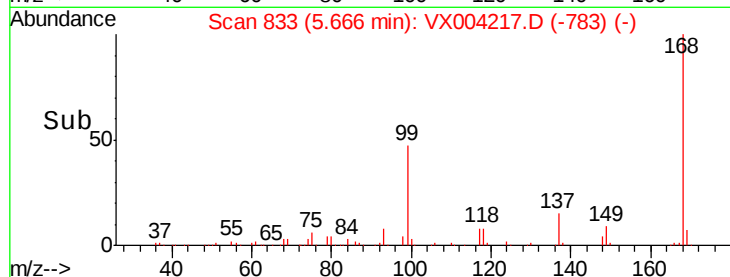
5.67

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.66 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004217.D

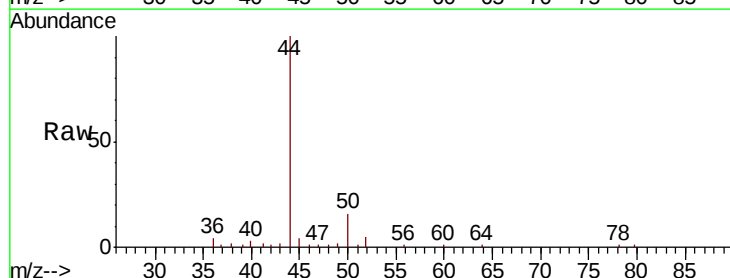
Acq: 23 Aug 2018 11:01

Tgt Ion: 50 Resp: 1519

Ion Ratio Lower Upper

50 100

52 33.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

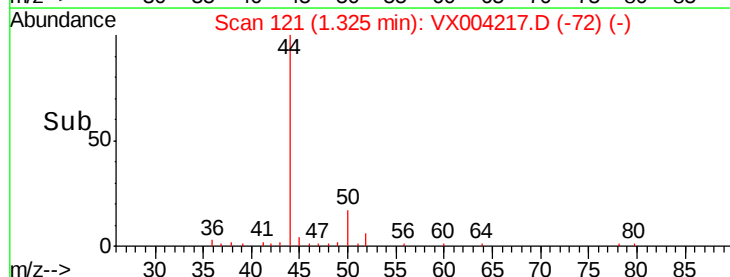
600

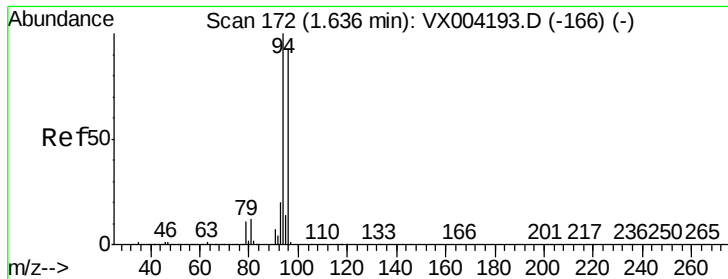
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

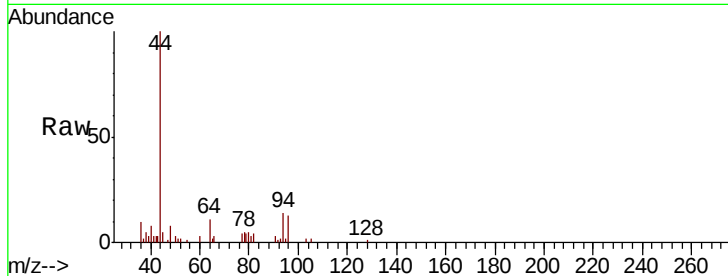
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Tot Ion: 94 Resp: 1282

Ion Ratio Lower Upper

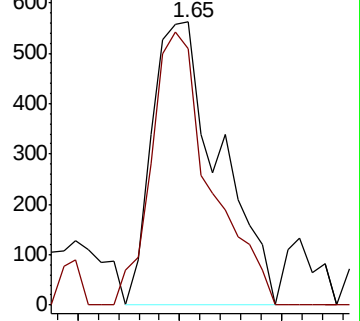
94 100

96 90.4 74.5 111.7

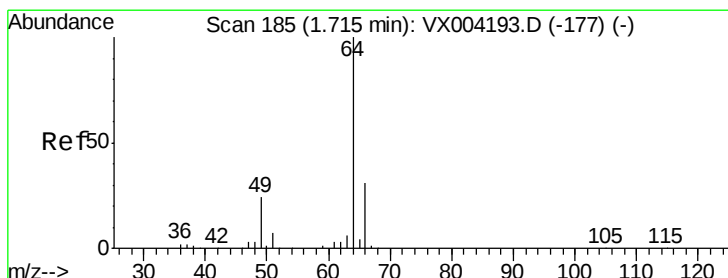
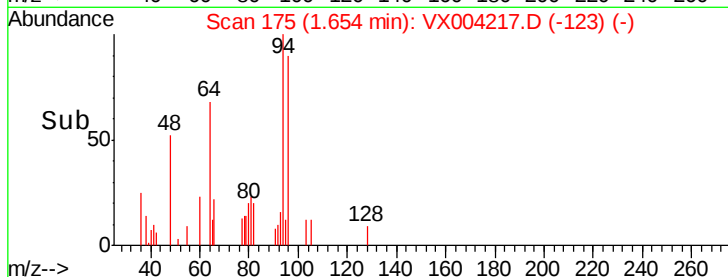


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.35 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX004217.D

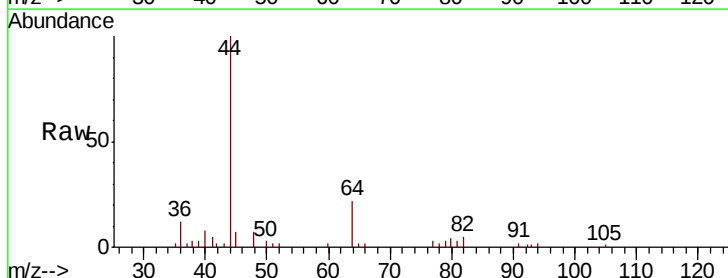
Acq: 23 Aug 2018 11:01

Tgt Ion: 64 Resp: 1286

Ion Ratio Lower Upper

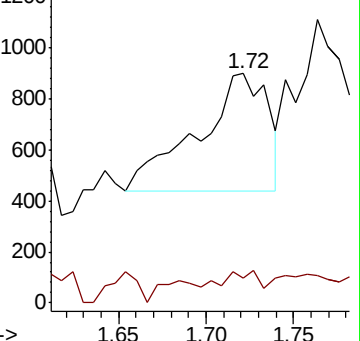
64 100

66 0.0 24.6 36.8#

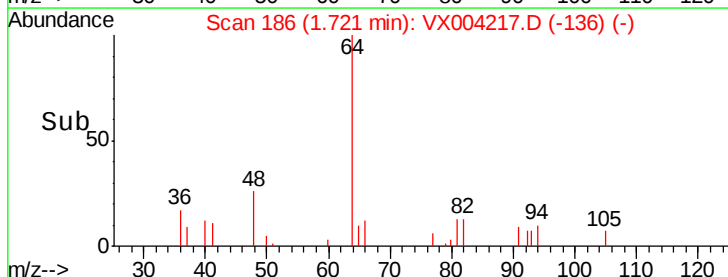


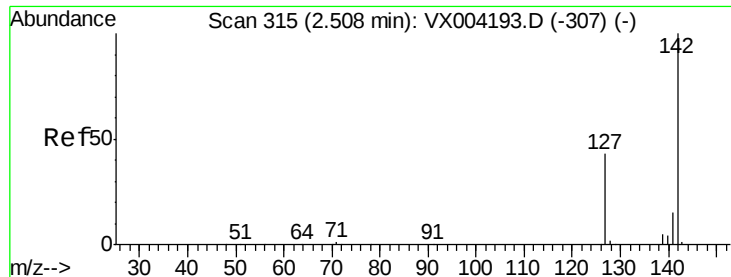
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

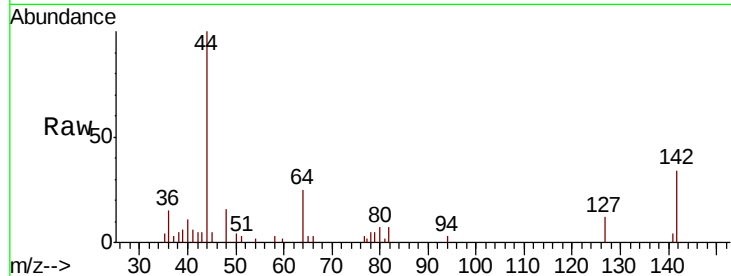




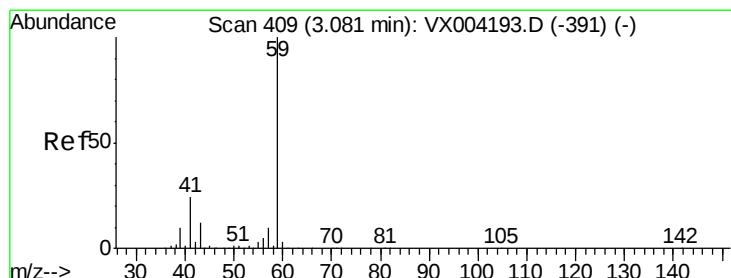
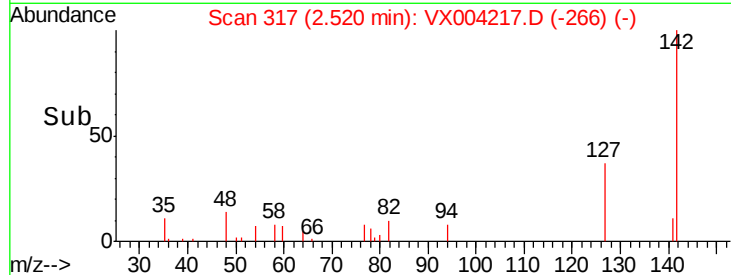
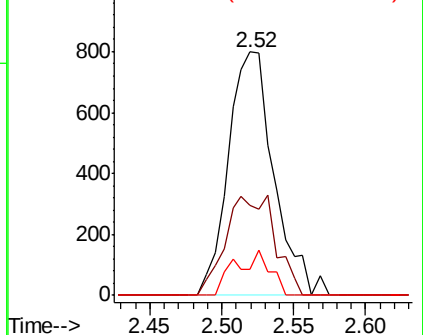
#10
Methyl Iodide
Concen: 4.66 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_X
ClientSampled :
TRIPBLANK

Tot Ion:142 Resp: 1766
Ion Ratio Lower Upper
142 100
127 44.2 33.8 50.6
141 13.8 11.4 17.0

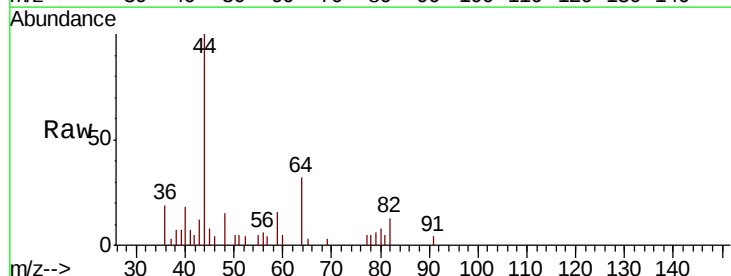


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

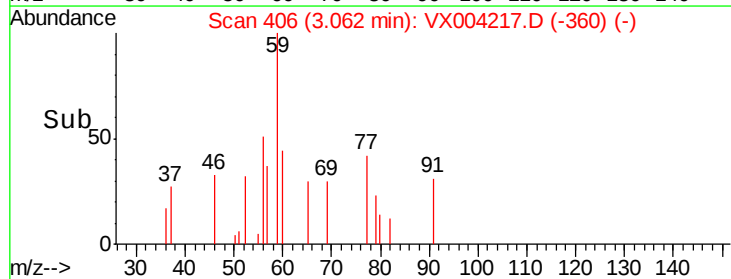
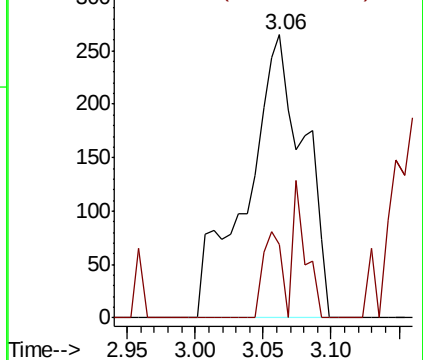


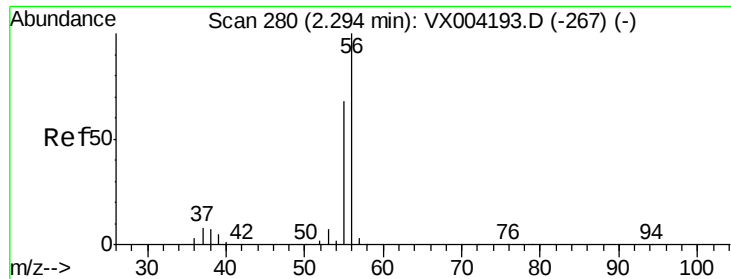
#11
Tert butyl alcohol
Concen: 0.87 ug/l
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Tgt Ion: 59 Resp: 774
Ion Ratio Lower Upper
59 100
57 10.1 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.71 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

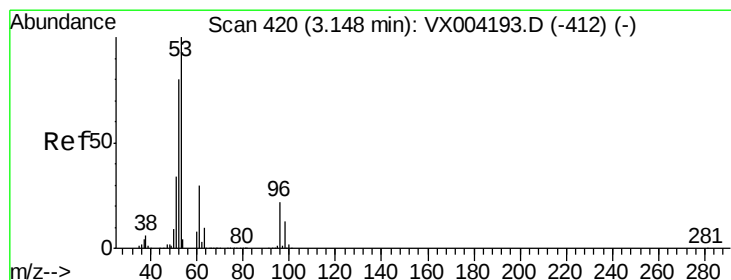
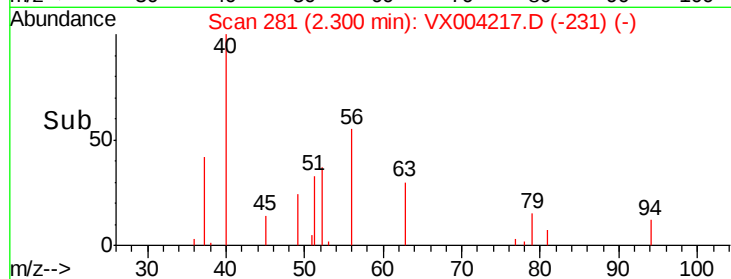
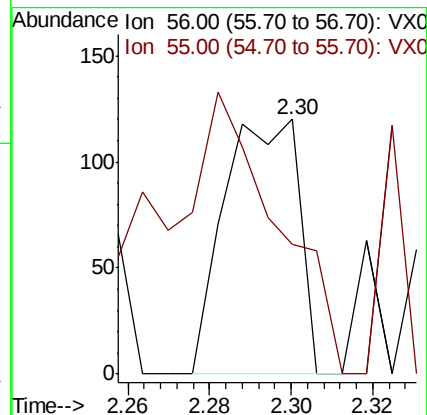
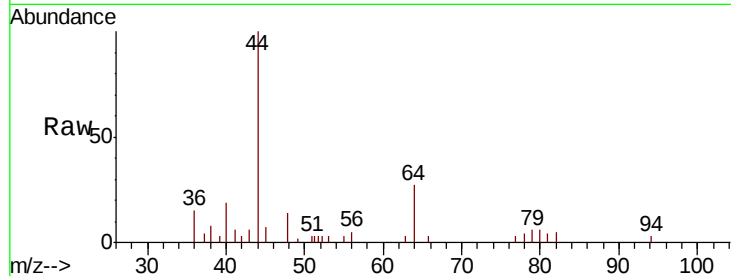
TRIPBLANK

Tot Ion: 56 Resp: 153

Ion Ratio Lower Upper

56 100

55 171.9 54.7 82.1#



#15

Acrylonitrile

Concen: 0.36 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.00 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

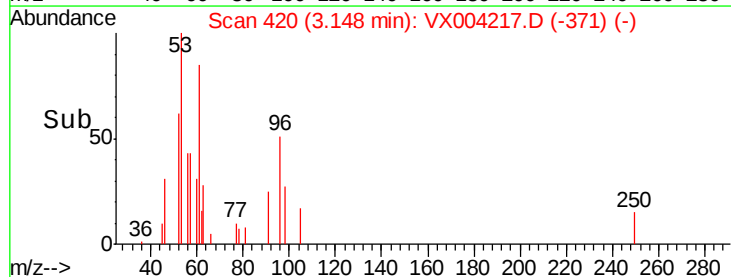
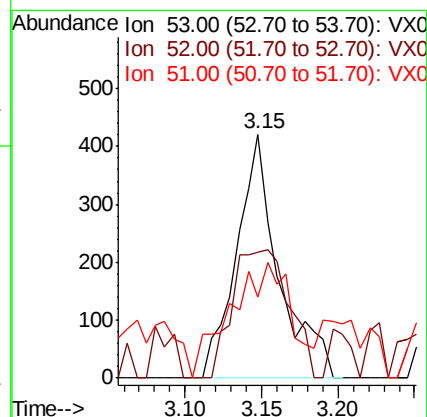
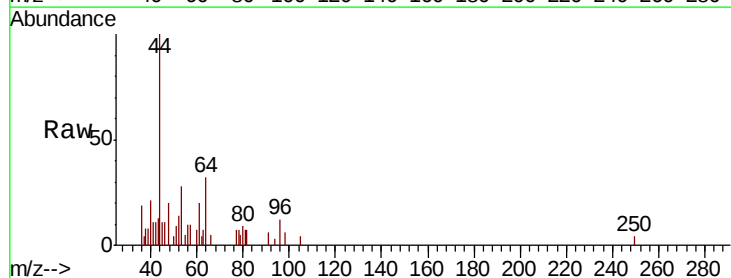
Tgt Ion: 53 Resp: 801

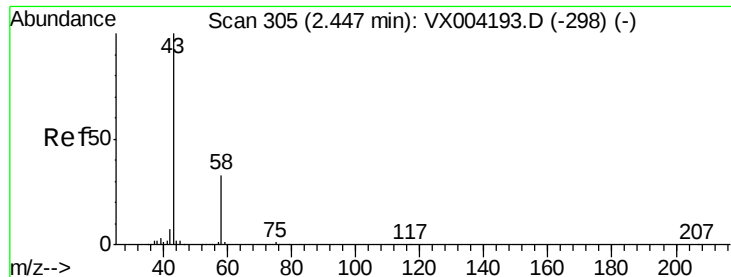
Ion Ratio Lower Upper

53 100

52 71.2 65.2 97.8

51 69.3 28.2 42.2#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

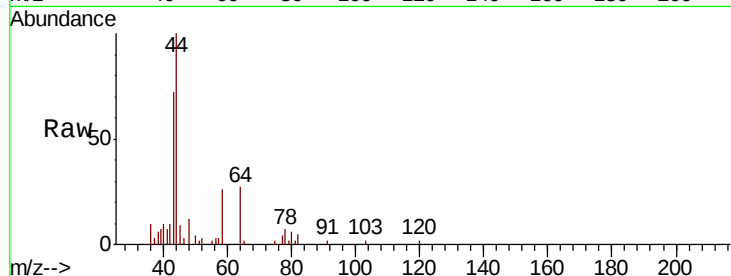
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Tot Ion: 43 Resp: 3174

Ion Ratio Lower Upper

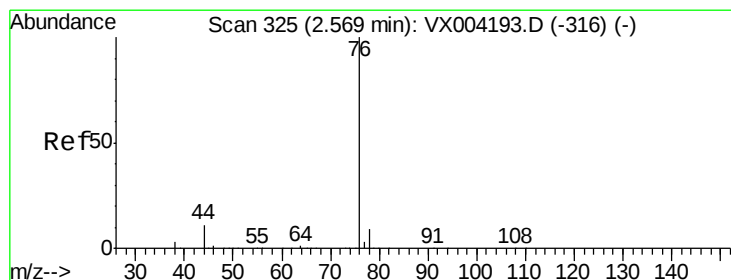
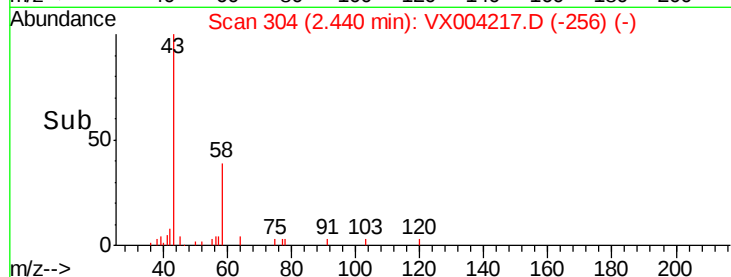
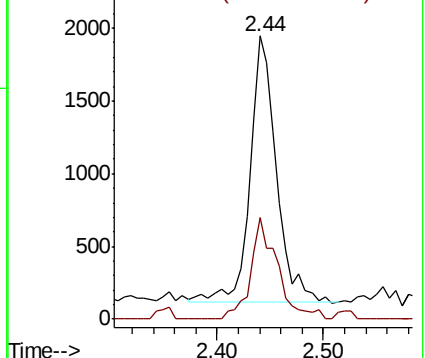
43 100

58 38.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.05 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004217.D

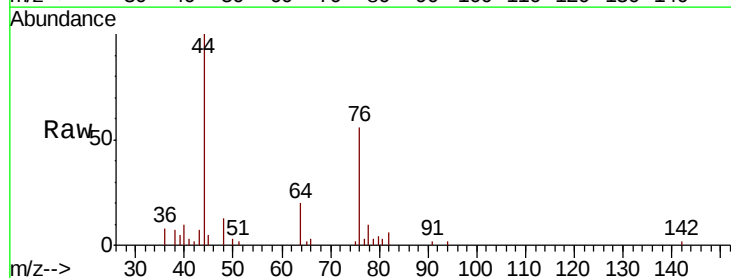
Acq: 23 Aug 2018 11:01

Tgt Ion: 76 Resp: 2409

Ion Ratio Lower Upper

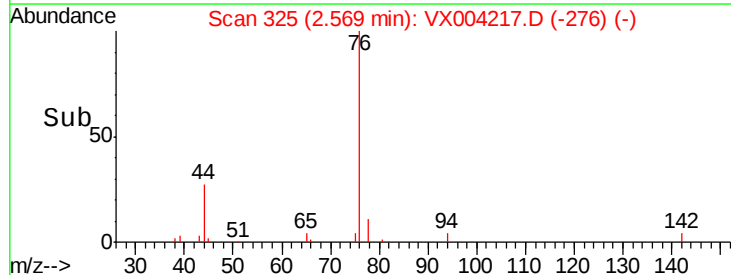
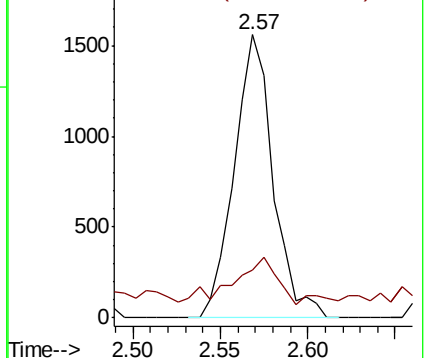
76 100

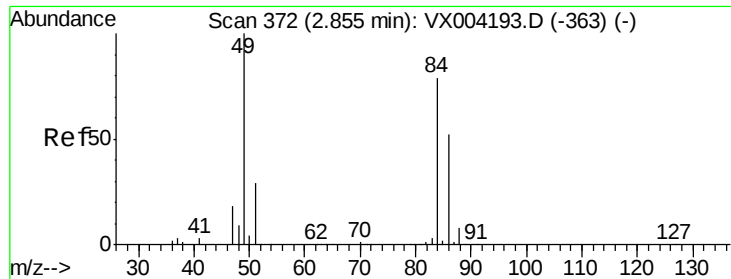
78 11.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methvlene Chloride

Concen: 0.39 ua/l

RT: 2.86 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

TRIPBLANK

Tot Ion: 84 Resp: 1559

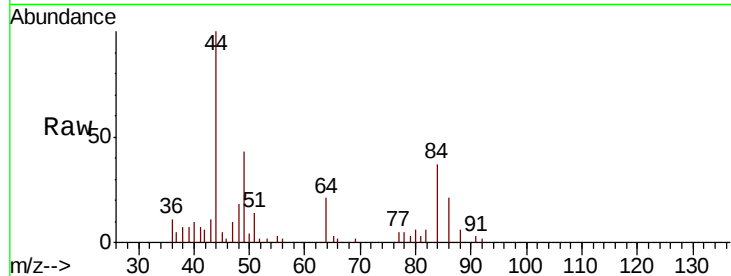
Ion Ratio Lower Upper

84 100

49 117.0 101.2 151.8

51 31.2 29.5 44.3

86 56.3 52.3 78.5

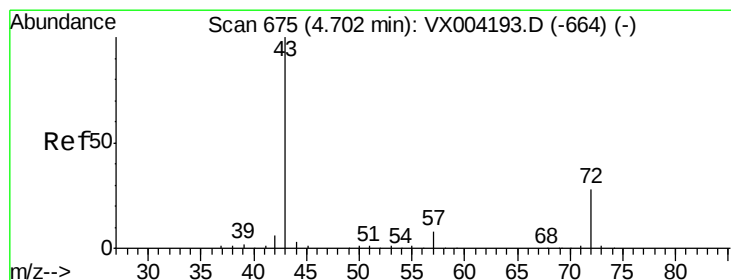
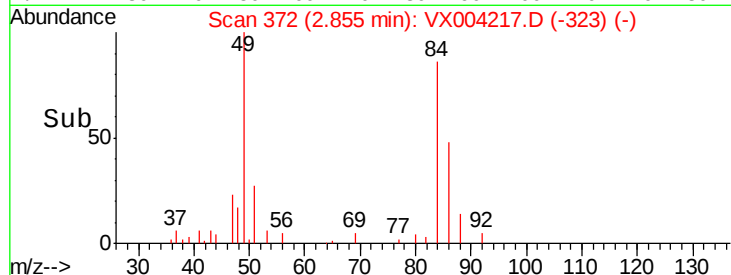
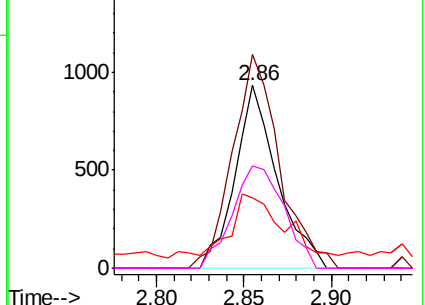


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004217.D

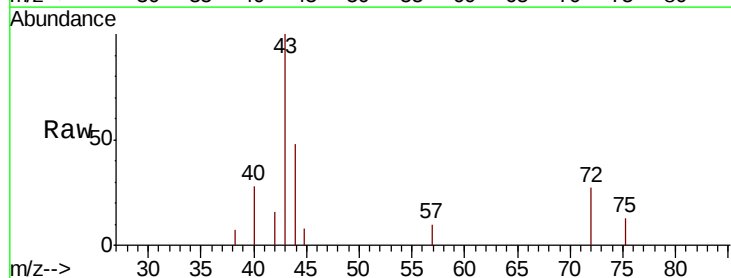
Acq: 23 Aug 2018 11:01

Tgt Ion: 43 Resp: 2727

Ion Ratio Lower Upper

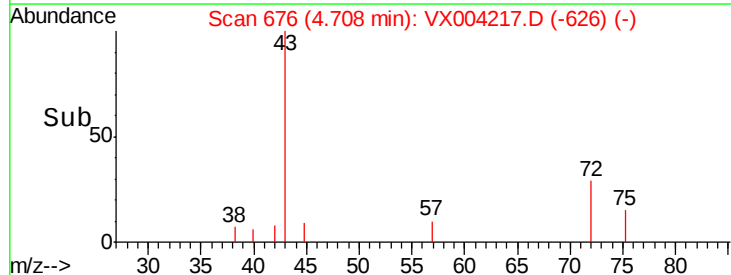
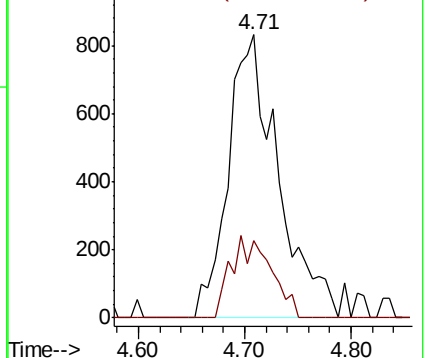
43 100

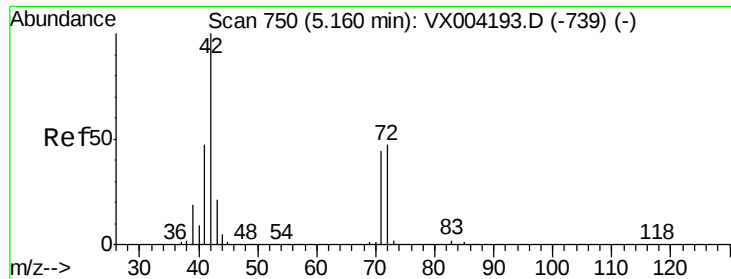
72 27.2 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

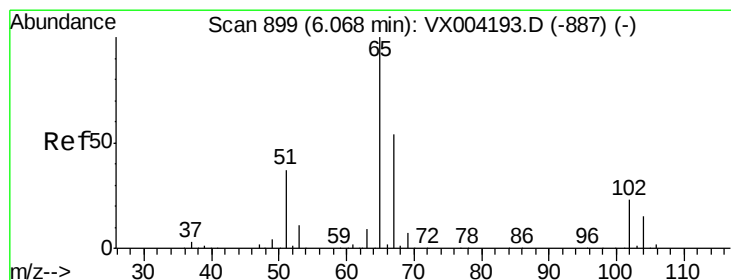
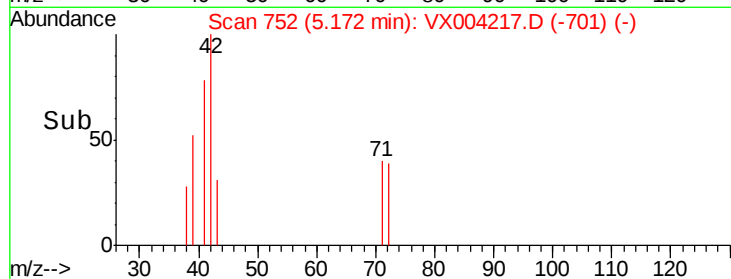
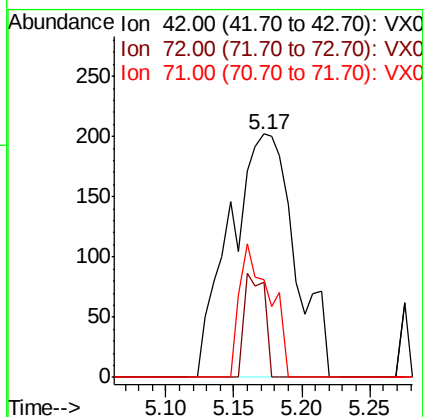
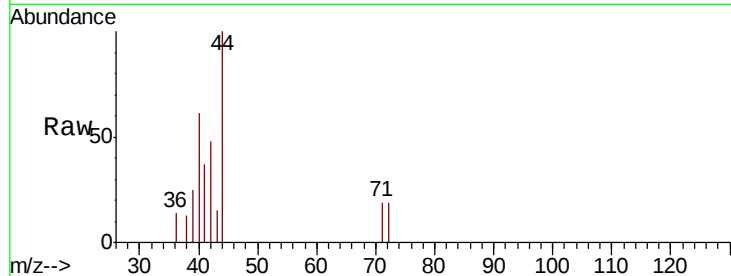




#29
Tetrahydrofuran
Concen: 0.38 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

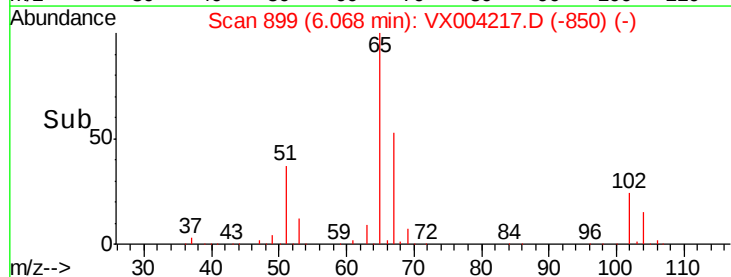
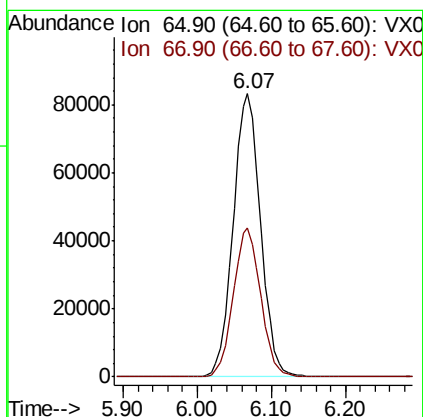
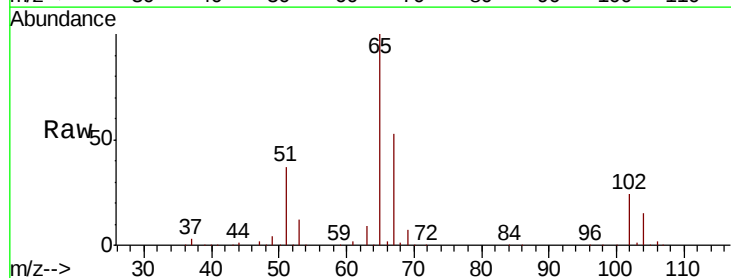
Instrument :
MSVOA_X
ClientSampleId :
TRIPBLANK

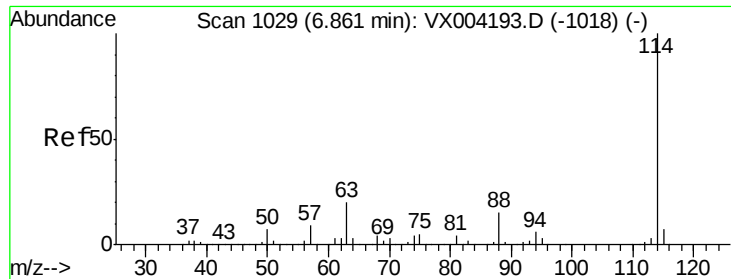
Tot Ion: 42 Resp: 676
Ion Ratio Lower Upper
42 100
72 13.2 37.4 56.0#
71 25.6 34.5 51.7#



#33
1,2-Dichloroethane-d4
Concen: 51.44 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Tgt Ion: 65 Resp: 214434
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.8

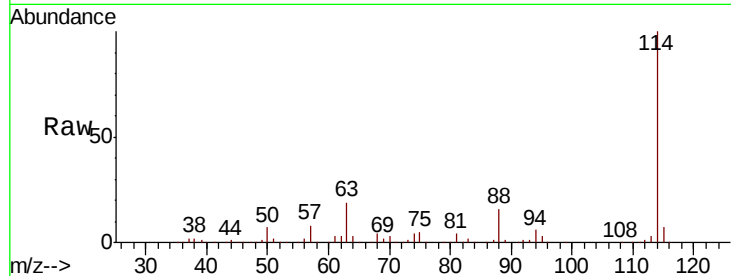




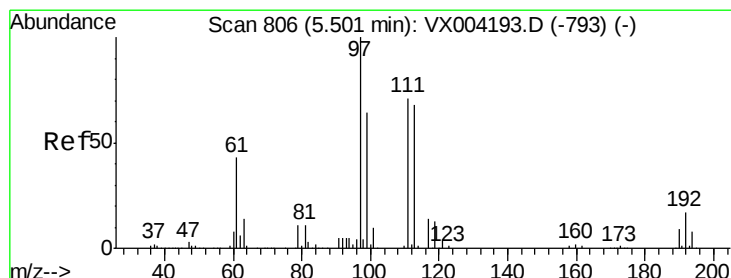
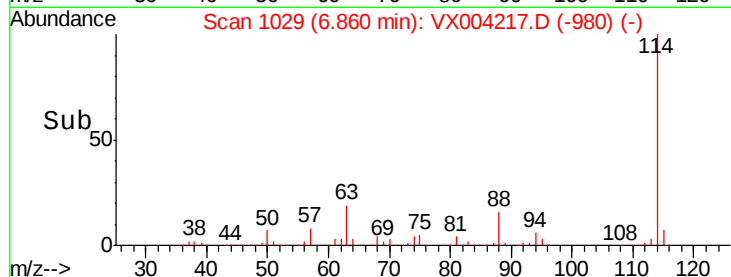
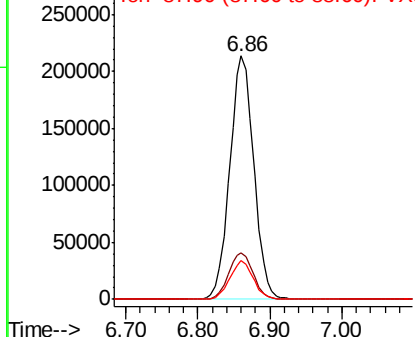
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004217.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIPBLANK

Tot Ion:114 Resp: 495711
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.0
 88 15.7 0.0 30.4

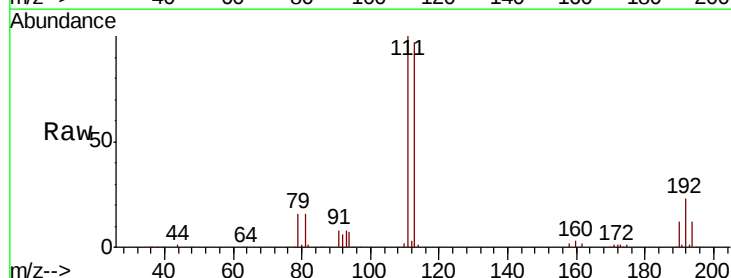


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

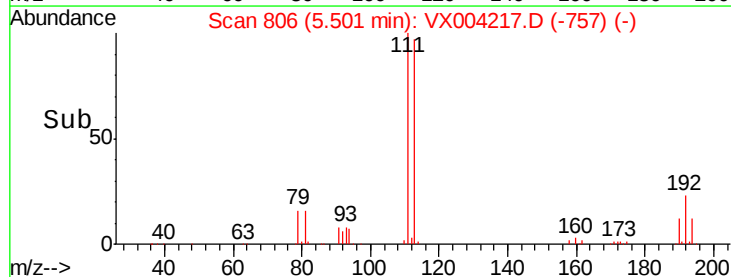
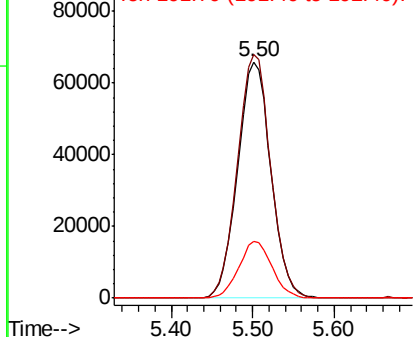


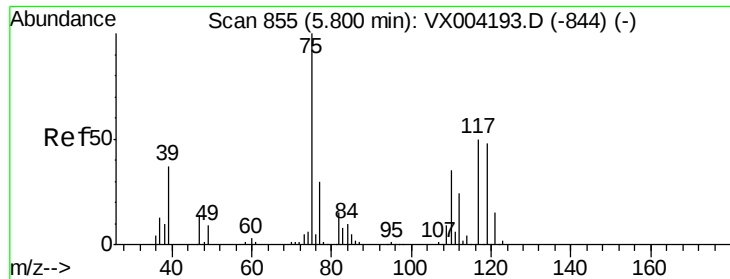
#35
 Dibromofluoromethane
 Concen: 50.50 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004217.D
 Acq: 23 Aug 2018 11:01

Tgt Ion:113 Resp: 186224
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 24.2 19.4 29.2



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: 3.79 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

TRIPBLANK

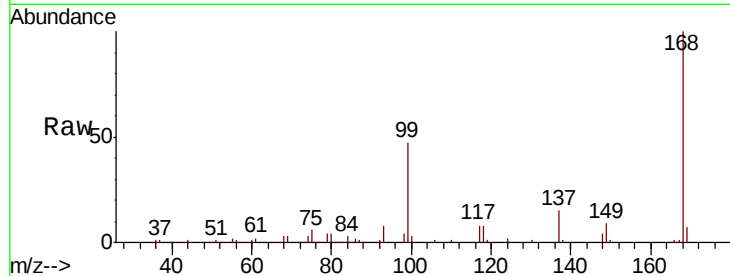
Tot Ion: 75 Resp: 21133

Ion Ratio Lower Upper

75 100

110 8.9 18.0 54.0#

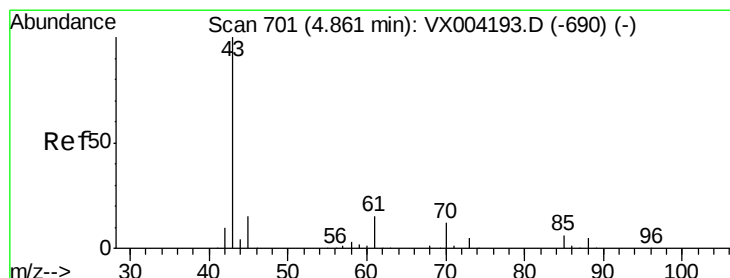
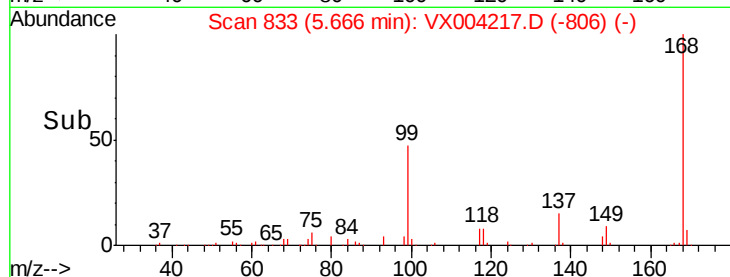
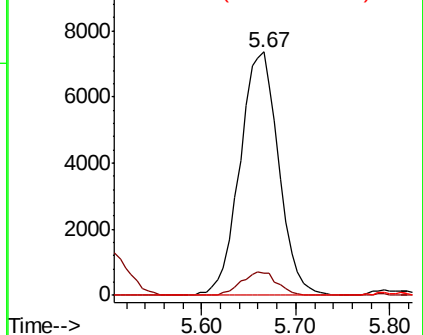
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.50 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.15 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

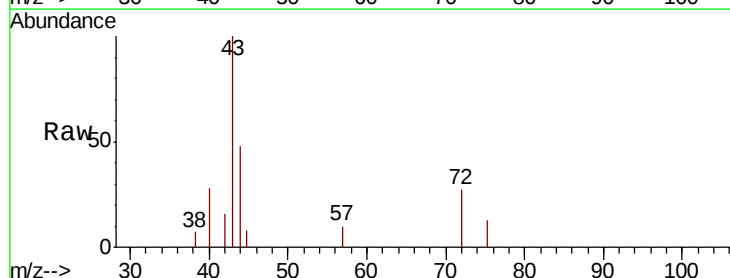
Tgt Ion: 43 Resp: 2727

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

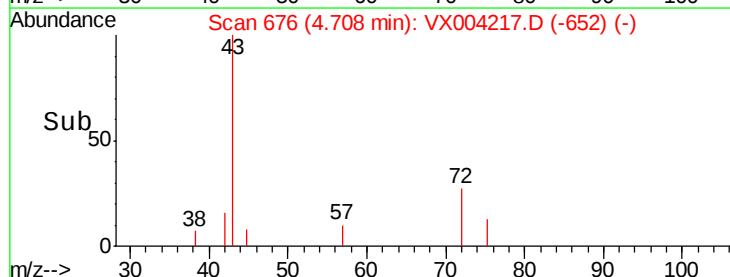
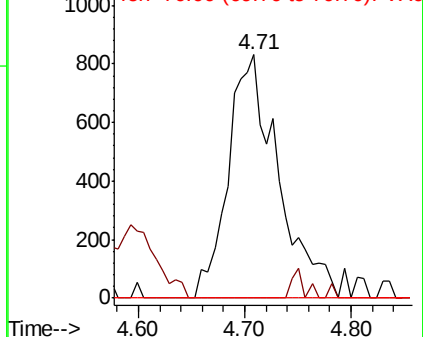
70 0.0 9.0 13.6#

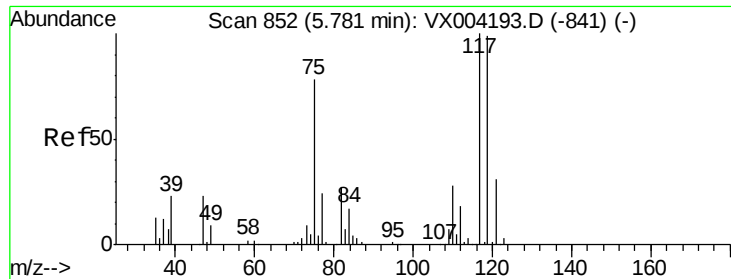


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

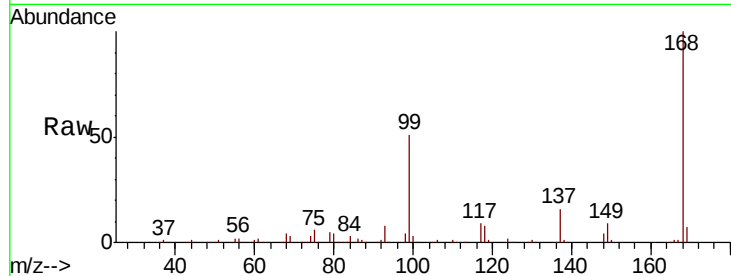




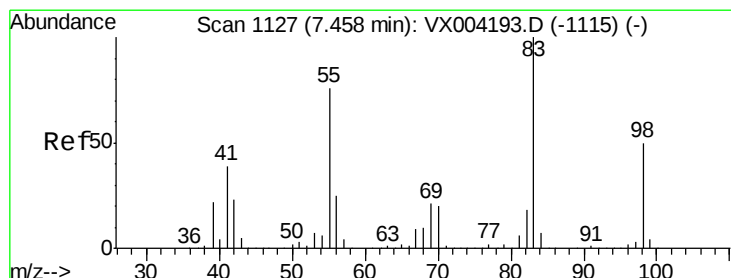
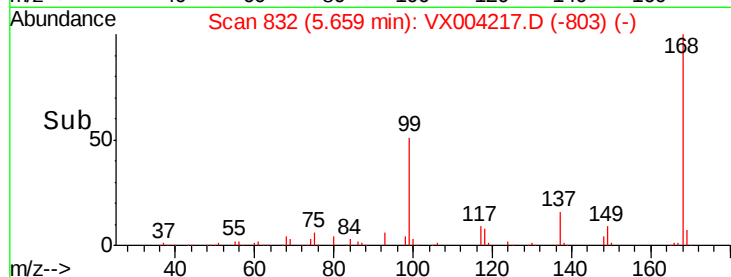
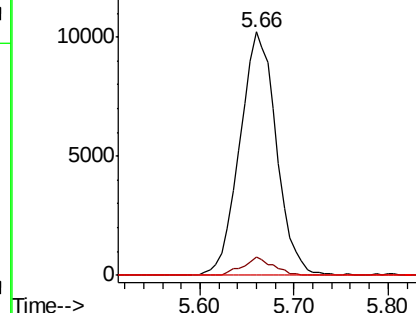
#38
Carbon Tetrachloride
Concen: 5.29 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.12 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_X
ClientSampleId :
TRIPBLANK

Tot Ion:117 Resp: 27708
Ion Ratio Lower Upper
117 100
119 7.5 78.8 118.2#
121 0.0 24.9 37.3#

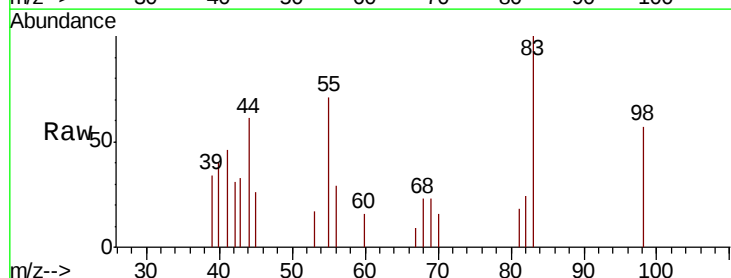


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

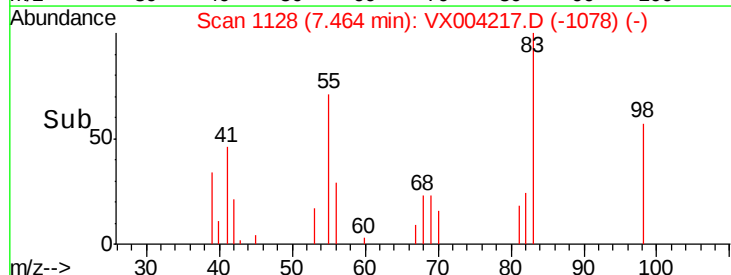
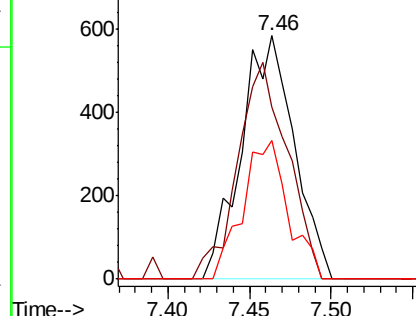


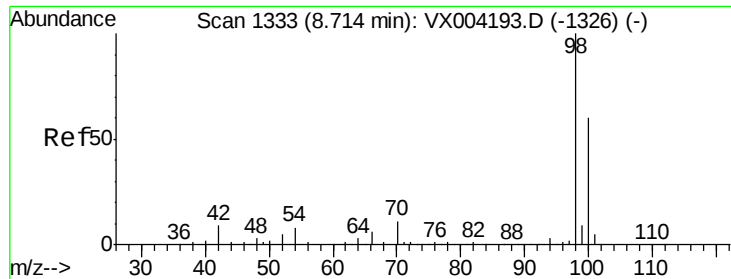
#39
Methylcyclohexane
Concen: 0.21 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Tgt Ion: 83 Resp: 1319
Ion Ratio Lower Upper
83 100
55 70.7 61.0 91.4
98 56.9 39.6 59.4



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

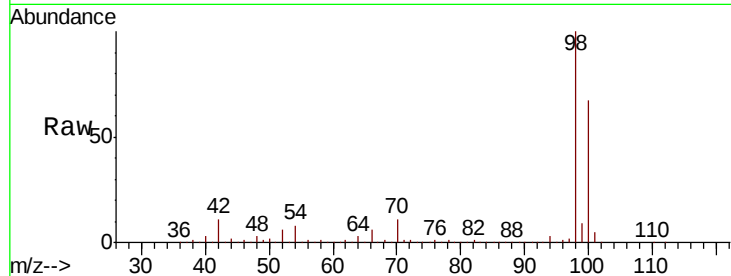




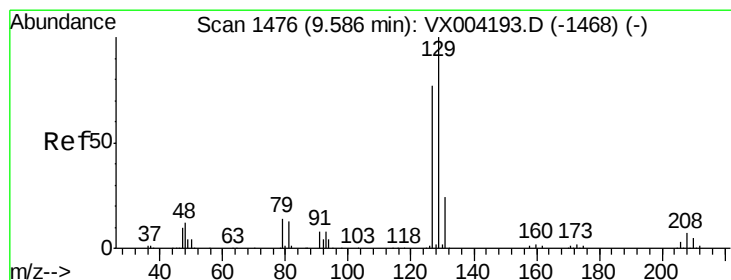
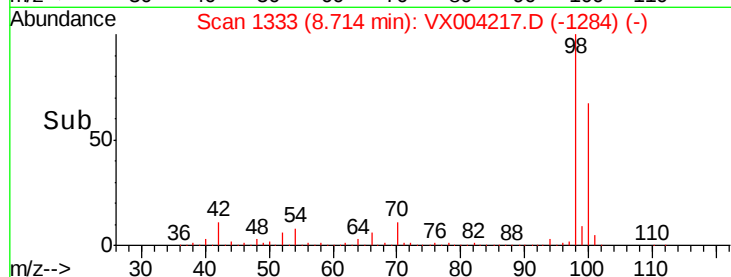
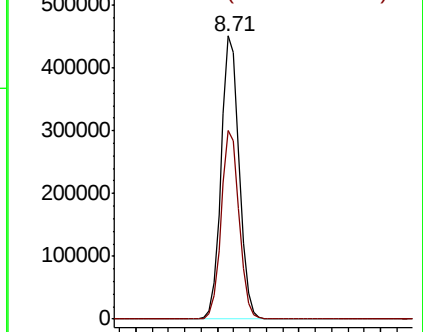
#50
Toluene-d8
Concen: 49.85 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Instrument :
MSVOA_X
ClientSampled :
TRIPBLANK

Tot Ion: 98 Resp: 693870
Ion Ratio Lower Upper
98 100
100 66.2 52.9 79.3

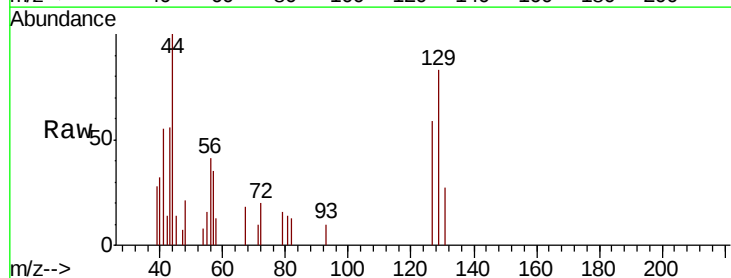


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

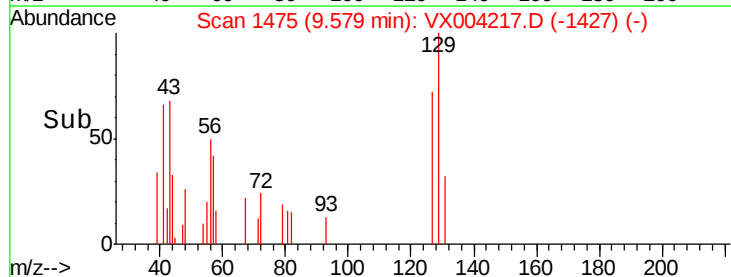
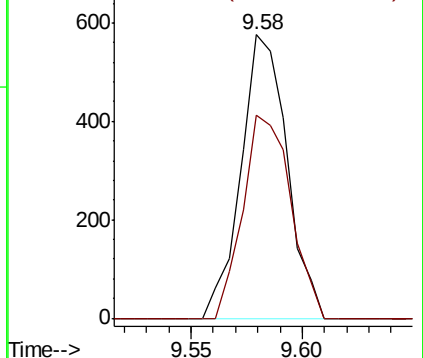


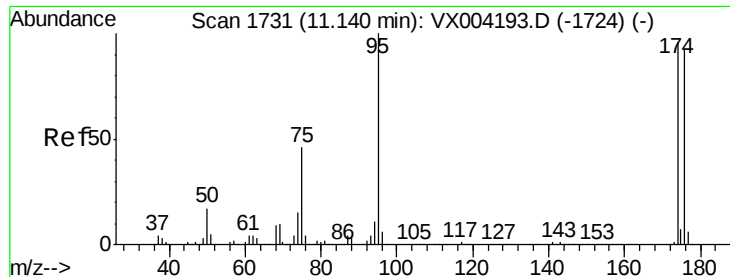
#60
Dibromochloromethane
Concen: 0.20 ug/l
RT: 9.58 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VX004217.D
Acq: 23 Aug 2018 11:01

Tgt Ion:129 Resp: 830
Ion Ratio Lower Upper
129 100
127 74.2 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

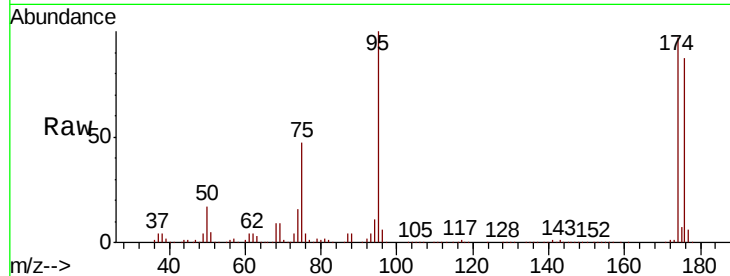




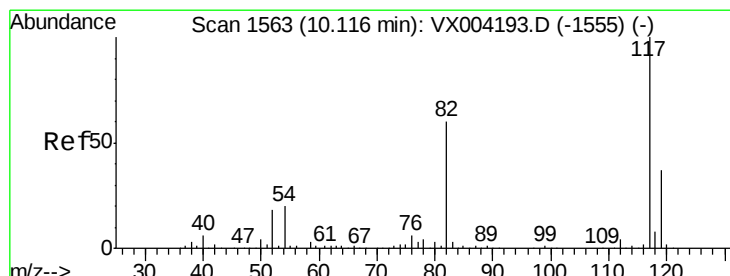
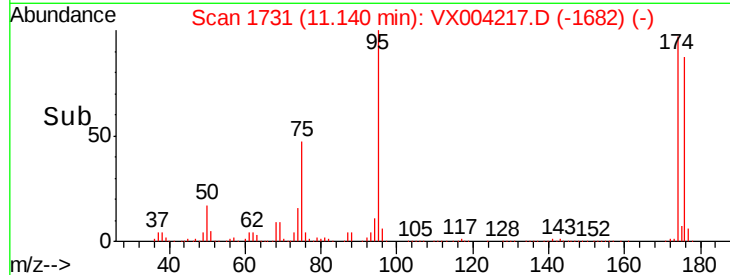
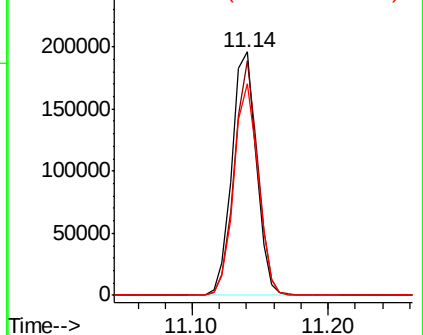
#62
 4-Bromofluorobenzene
 Concen: 47.49 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX004217.D
 Acq: 23 Aug 2018 11:01

Instrument :
 MSVOA_X
 ClientSampled :
 TRIPBLANK

Tot Ion: 95 Resp: 246641
 Ion Ratio Lower Upper
 95 100
 174 92.4 0.0 185.2
 176 86.4 0.0 178.6

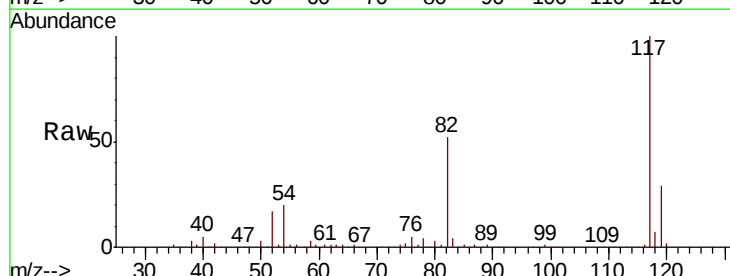


Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

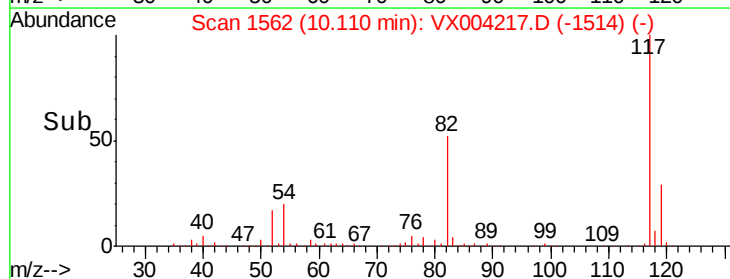
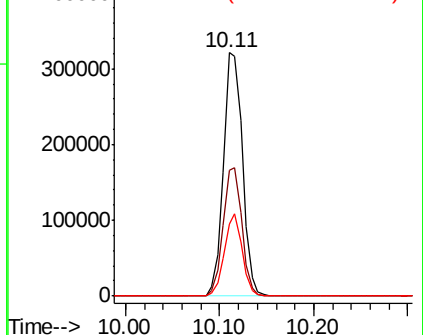


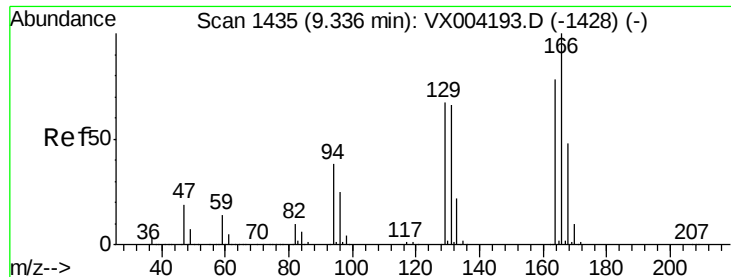
#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.11 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VX004217.D
 Acq: 23 Aug 2018 11:01

Tgt Ion: 117 Resp: 448655
 Ion Ratio Lower Upper
 117 100
 82 51.9 47.8 71.6
 119 29.4 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





#64

Tetrachloroethene

Concen: 0.27 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

TRIPBLANK

Tot Ion:164 Resp: 1194

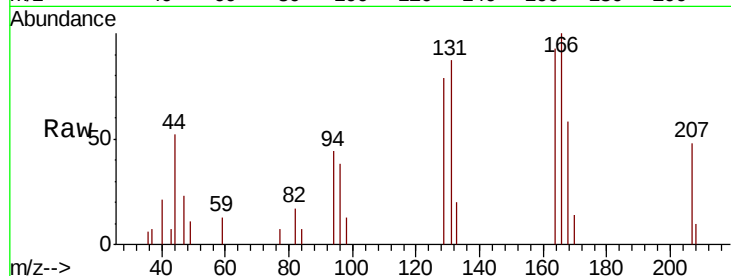
Ion Ratio Lower Upper

164 100

166 108.1 102.8 154.2

129 84.9 69.4 104.0

131 94.4 67.9 101.9

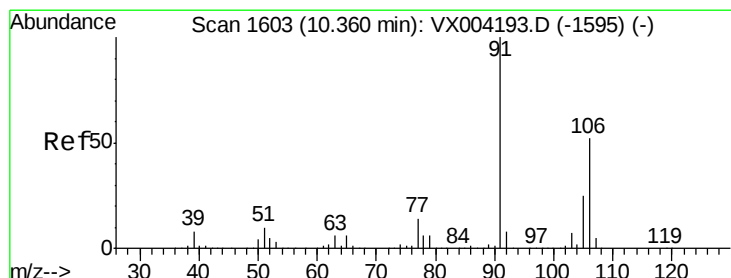
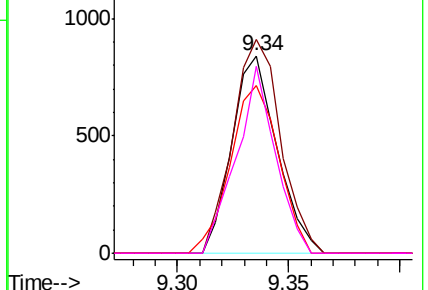
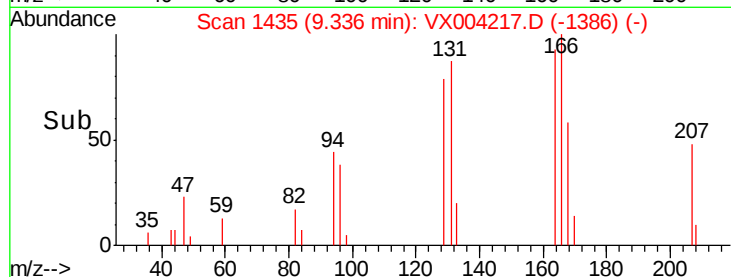


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.33 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VX004217.D

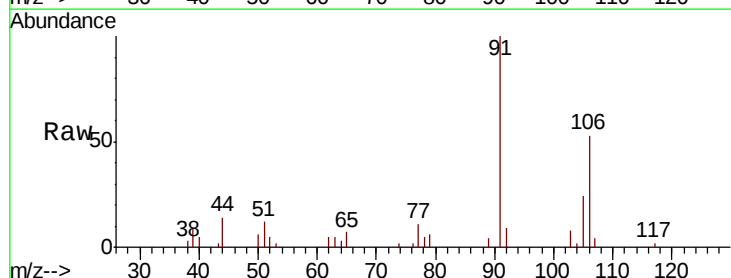
Acq: 23 Aug 2018 11:01

Tgt Ion:106 Resp: 2341

Ion Ratio Lower Upper

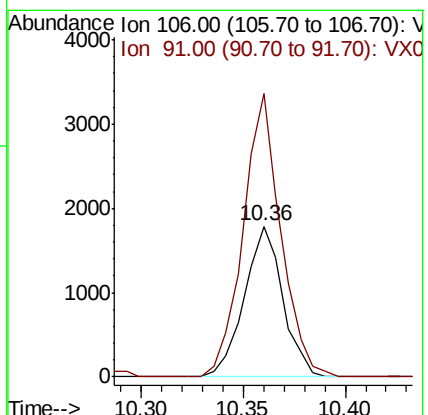
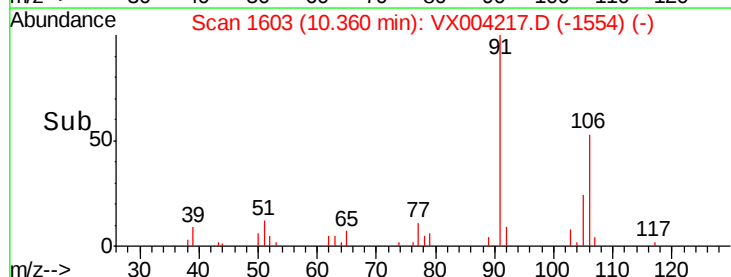
106 100

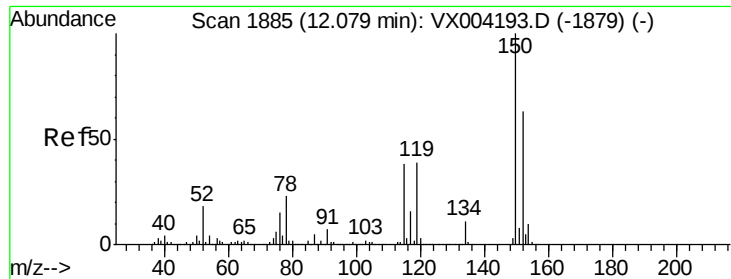
91 184.1 157.1 235.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampled :

TRIPBLANK

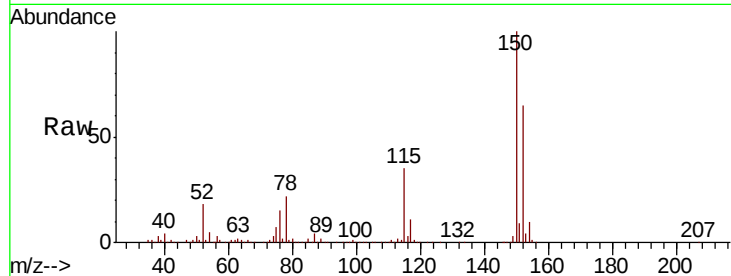
Tot Ion:152 Resp: 259476

Ion Ratio Lower Upper

152 100

115 55.3 39.0 117.0

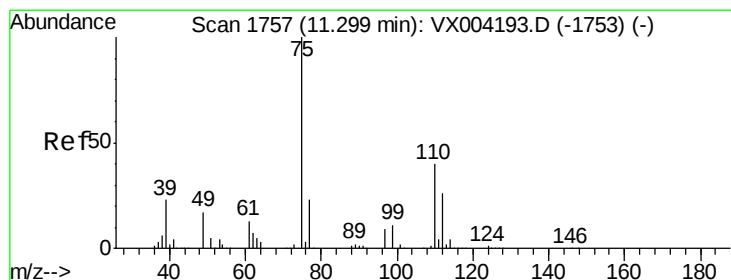
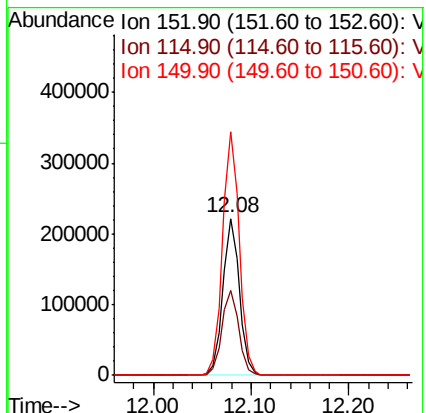
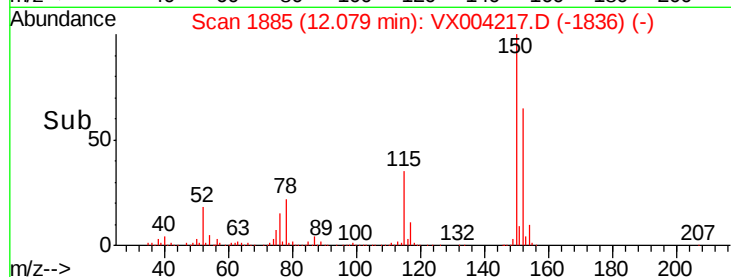
150 156.8 0.0 351.0



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: 22.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004217.D

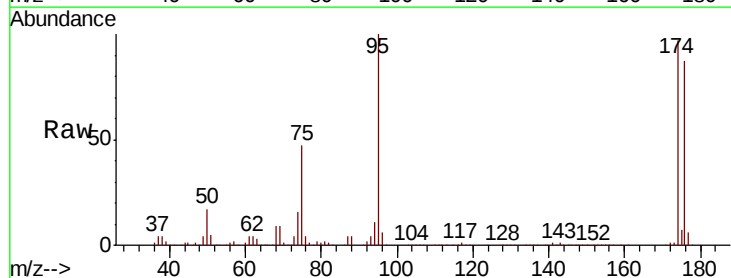
Acq: 23 Aug 2018 11:01

Tgt Ion: 75 Resp: 118390

Ion Ratio Lower Upper

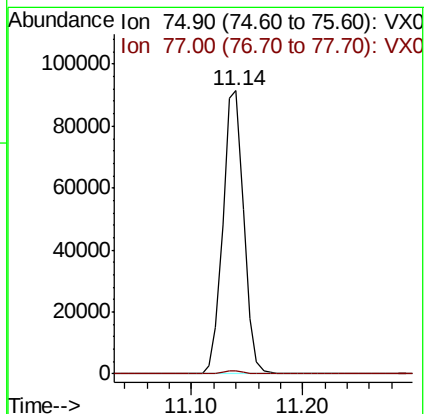
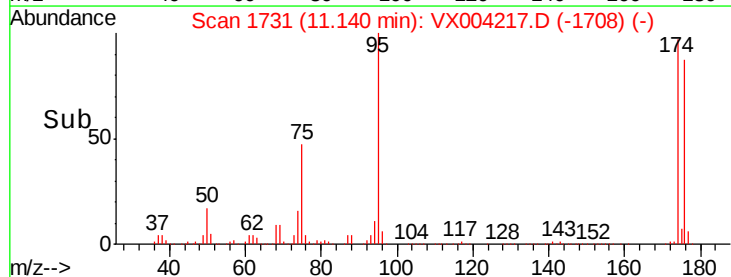
75 100

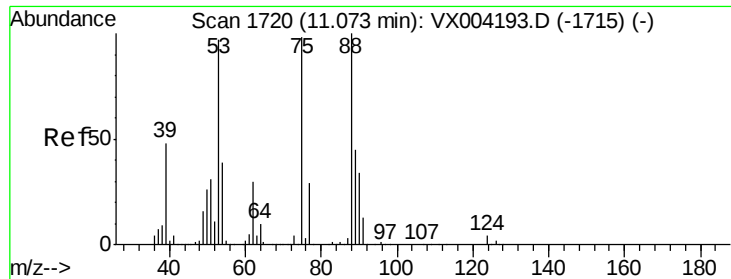
77 1.2 20.2 60.6#



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: 72.79 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004217.D

Acq: 23 Aug 2018 11:01

Instrument :

MSVOA_X

ClientSampleId :

TRIPBLANK

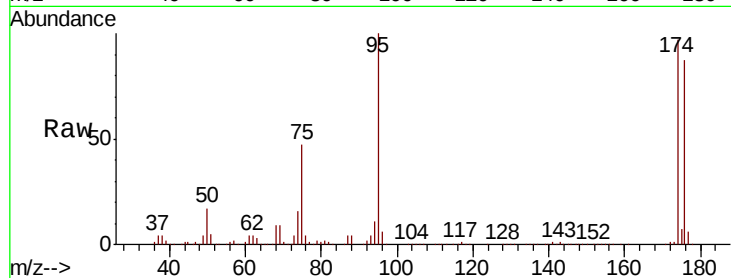
Tot Ion: 75 Resp: 118390

Ion Ratio Lower Upper

75 100

53 0.1 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

