

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004081.D
 Acq On : 15 Aug 2018 19:07
 Operator : JC/MD
 Sample : J4473-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS033-180813

Quant Time: Aug 16 05:52:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	255658	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	389526	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187156	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	184519	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	5.51	113	155064	53.19	ug/l	0.00
Spiked Amount			Recovery	=	106.38%	
50) Toluene-d8	8.72	98	557257	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
62) 4-Bromofluorobenzene	11.14	95	187202	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	

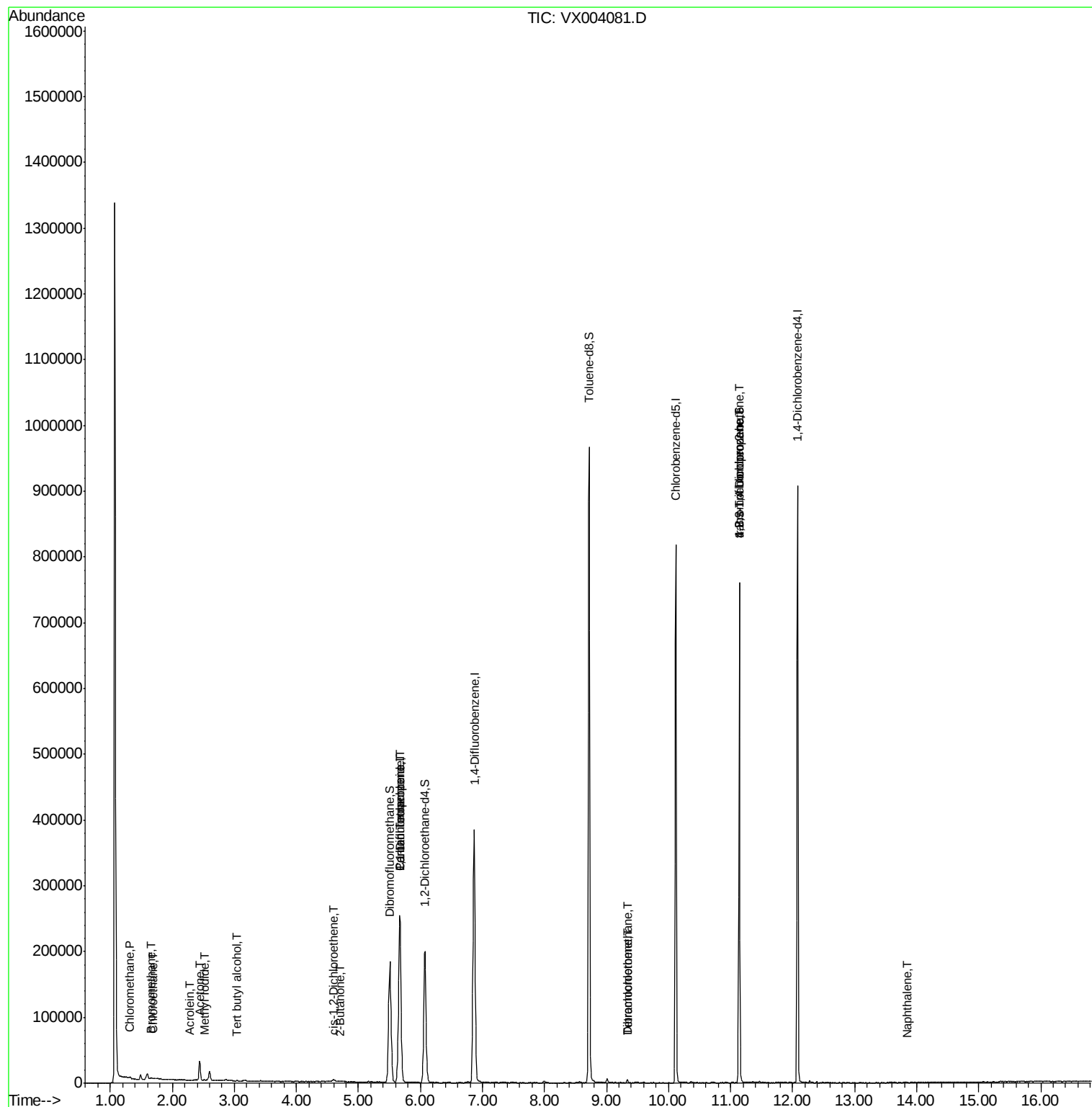
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1359	0.44	ug/l	90
5) Bromomethane	1.65	94	1213	0.55	ug/l	93
6) Chloroethane	1.68	64	7160	1.57	ug/l #	55
10) Methyl Iodide	2.52	142	806	5.24	ug/l	94
11) Tert butyl alcohol	3.04	59	539	0.74	ug/l #	88
13) Acrolein	2.29	56	169	11.28	ug/l #	70
16) Acetone	2.44	43	33158	17.70	ug/l	98
20) Methylene Chloride	2.86	84	638	Below Cal	#	70
25) 2-Butanone	4.70	43	2096	0.69	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	1854	0.54	ug/l	28
36) 1,1-Dichloropropene	5.67	75	17479	3.94	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22801	5.29	ug/l #	16
60) Dibromochloromethane	9.34	129	765	0.23	ug/l #	11
64) Tetrachloroethene	9.34	164	943	0.28	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	90737	24.18	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	90737	74.84	ug/l #	9
95) Naphthalene	13.84	128	273	1.16	ug/l #	81

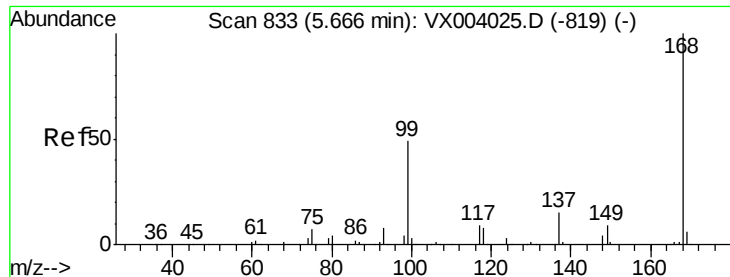
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

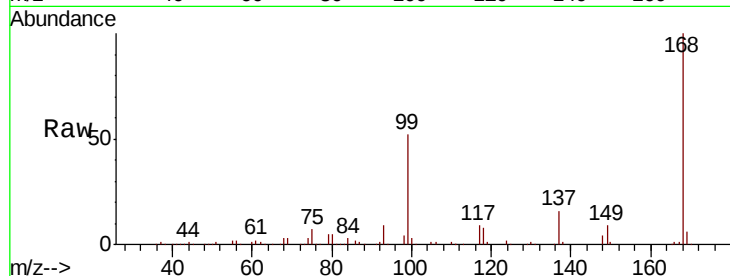
KY038PS033-180813

Tot Ion:168 Resp: 255658

Ion Ratio Lower Upper

168 100

99 51.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

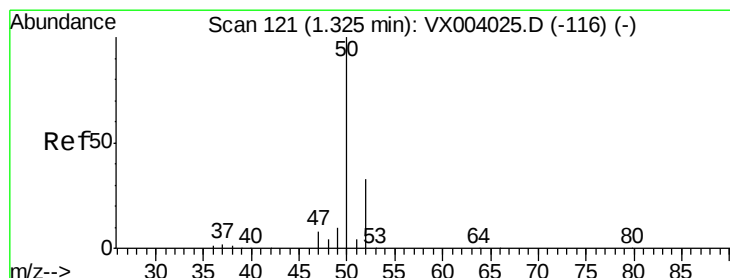
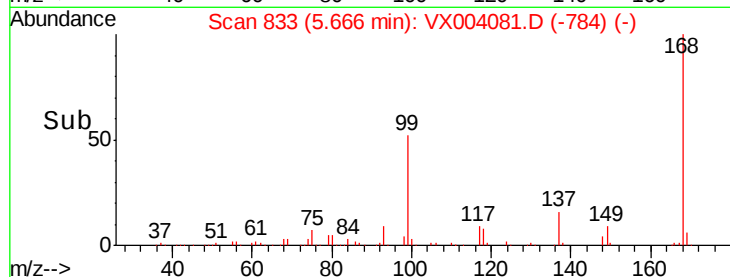
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004081.D

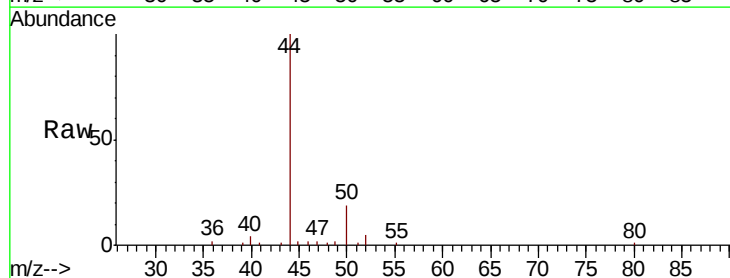
Acq: 15 Aug 2018 19:07

Tgt Ion: 50 Resp: 1359

Ion Ratio Lower Upper

50 100

52 27.8 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

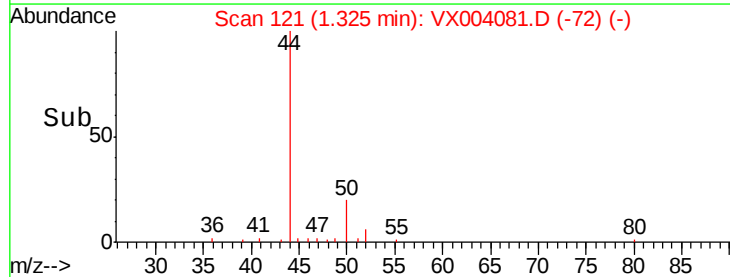
600

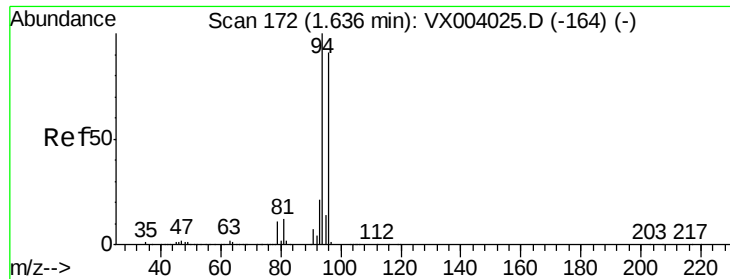
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.55 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

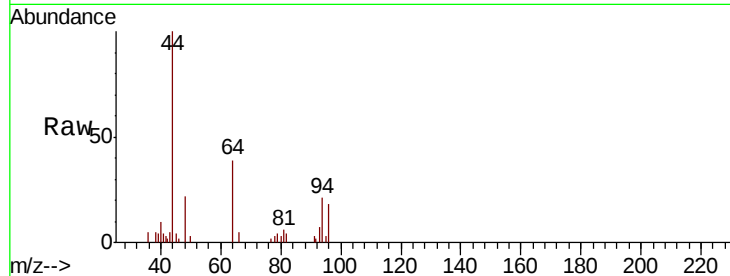
KY038PS033-180813

Tot Ion: 94 Resp: 1213

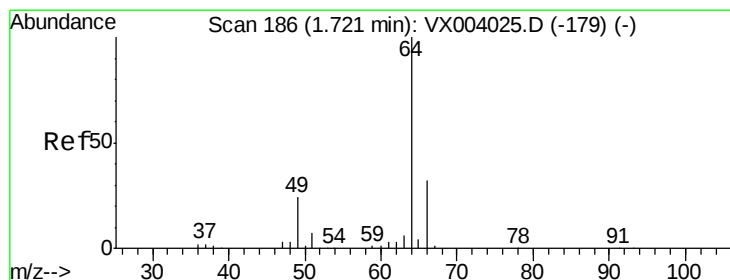
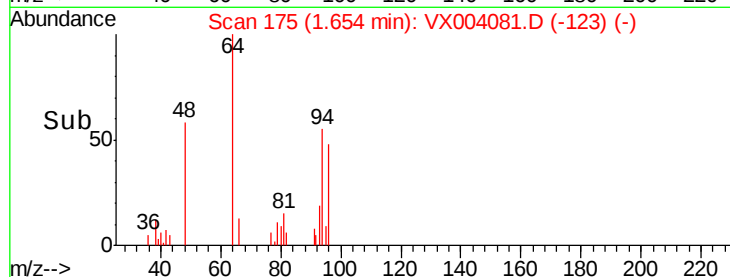
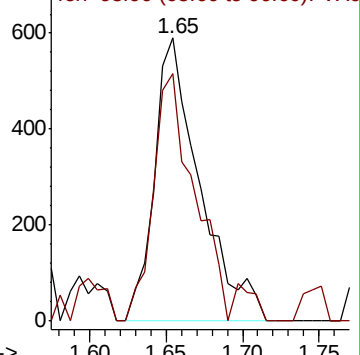
Ion Ratio Lower Upper

94 100

96 87.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 1.57 ug/l

RT: 1.68 min Scan# 180

Delta R.T. -0.04 min

Lab File: VX004081.D

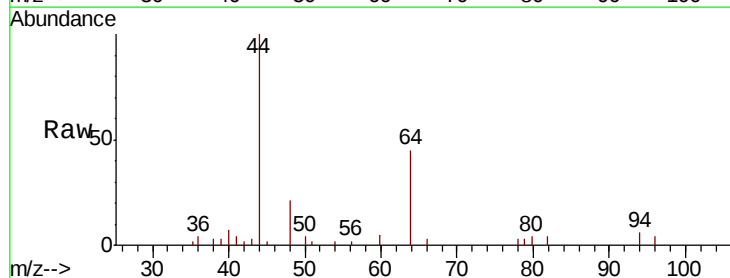
Acq: 15 Aug 2018 19:07

Tgt Ion: 64 Resp: 7160

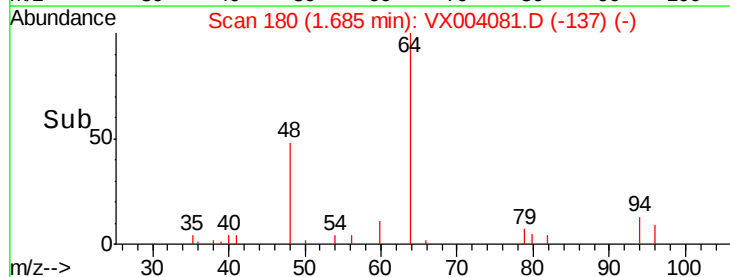
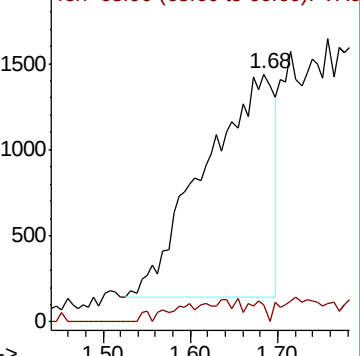
Ion Ratio Lower Upper

64 100

66 7.6 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

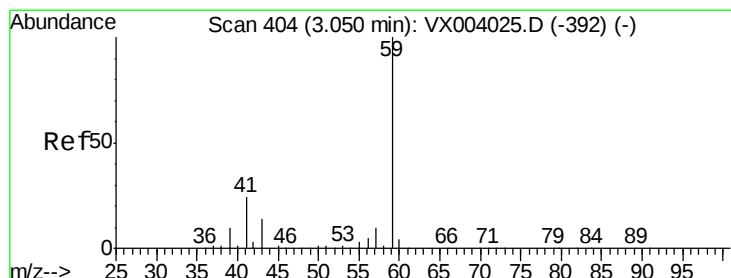
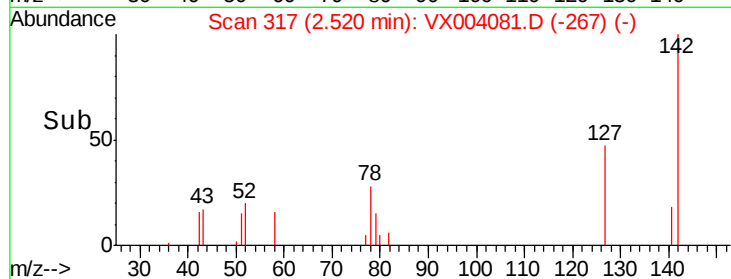
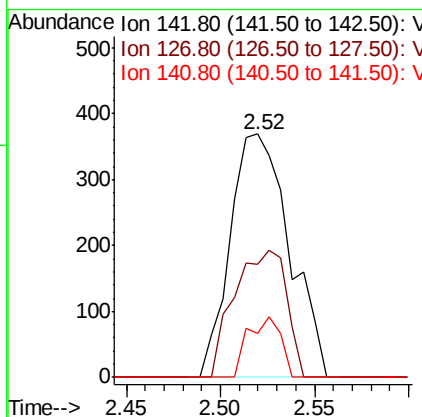
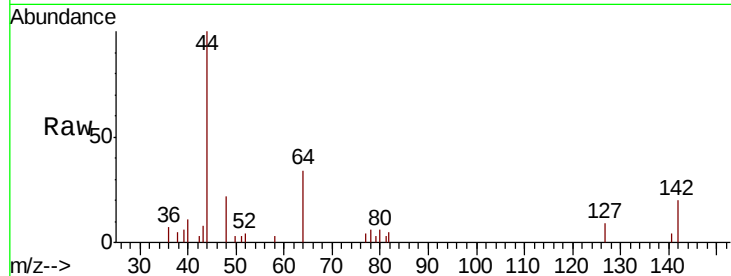




#10
Methvl Iodide
Concen: 5.24 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

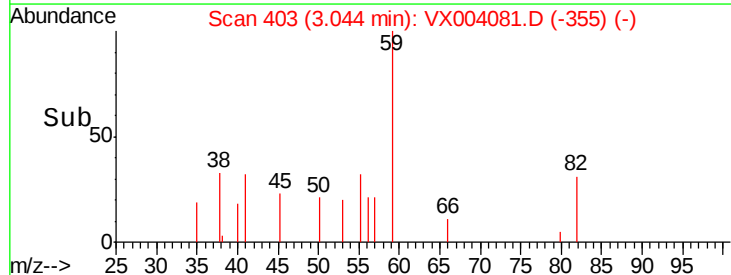
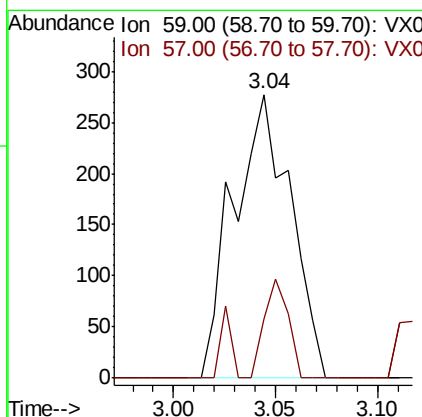
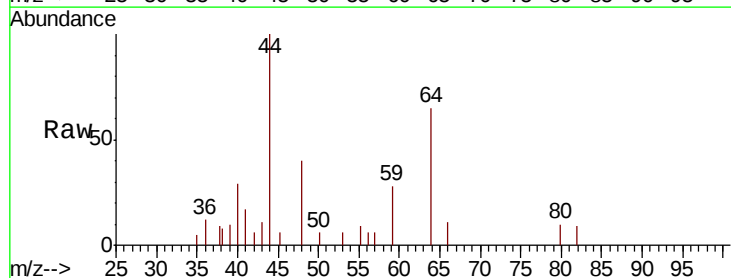
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180813

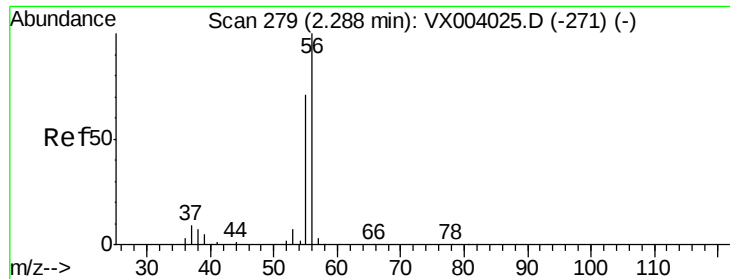
Tot Ion:142 Resp: 806
Ion Ratio Lower Upper
142 100
127 46.0 33.1 49.7
141 13.5 11.1 16.7



#11
Tert butyl alcohol
Concen: 0.74 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

Tgt Ion: 59 Resp: 539
Ion Ratio Lower Upper
59 100
57 14.7 8.1 12.1#





#13

Acrolein

Concen: 11.28 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

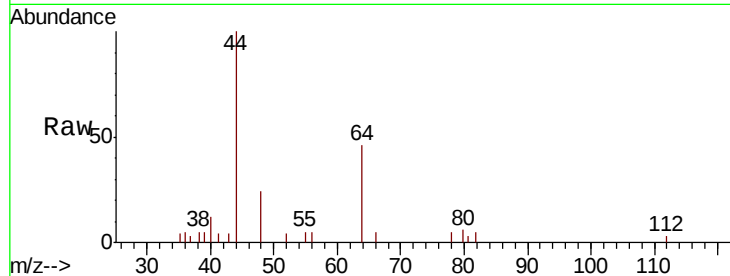
KY038PS033-180813

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

56 100

55 45.6 56.1 84.1#

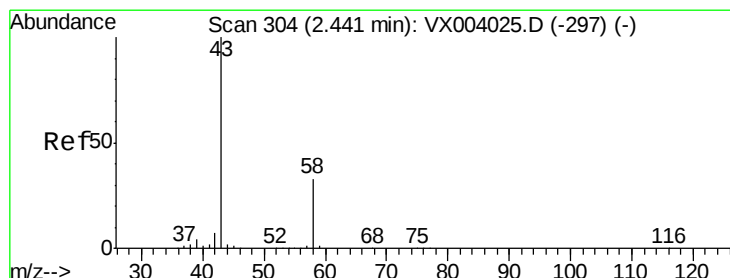
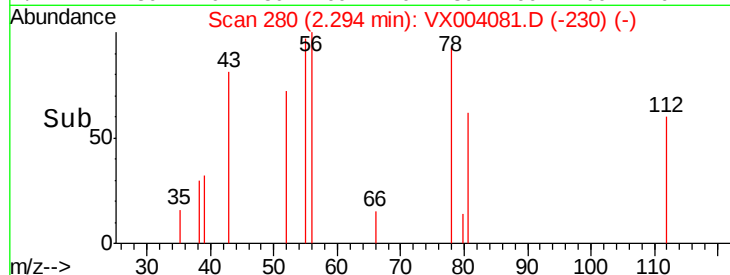


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

Time-->



#16

Acetone

Concen: 17.70 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004081.D

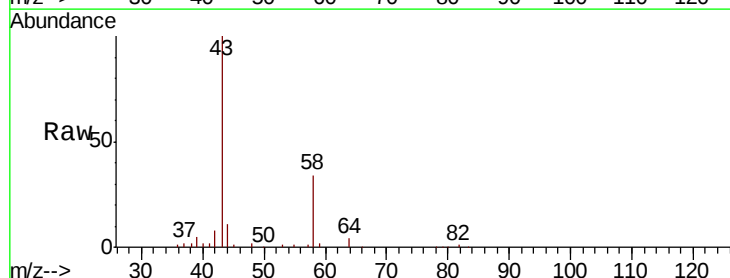
Acq: 15 Aug 2018 19:07

Tgt Ion: 43 Resp: 33158

Ion Ratio Lower Upper

43 100

58 33.9 26.4 39.6

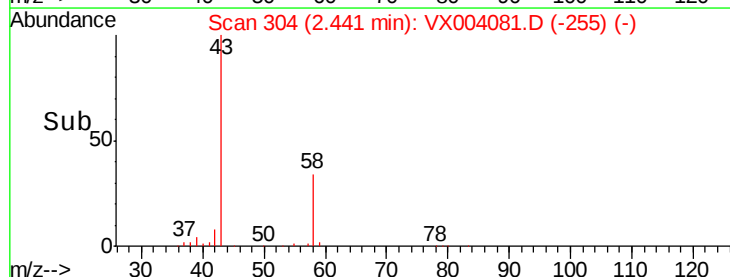


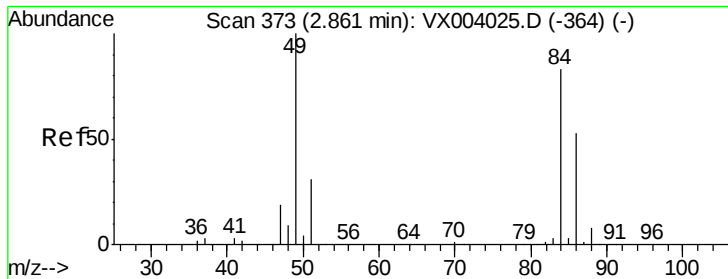
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

Time-->

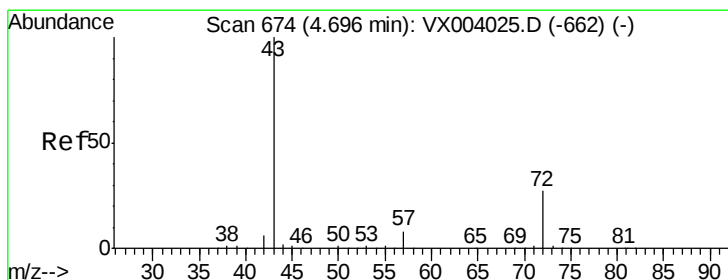
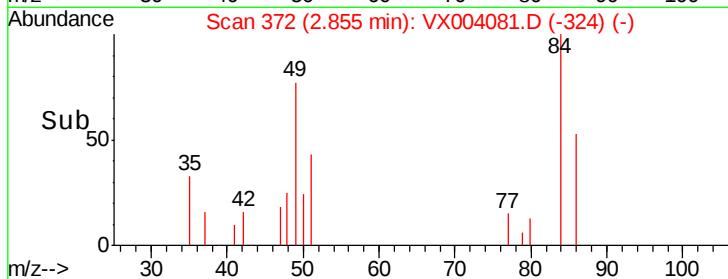
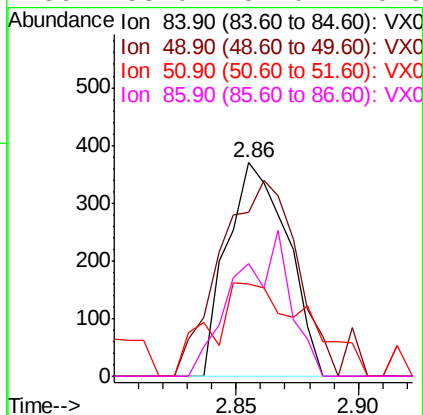
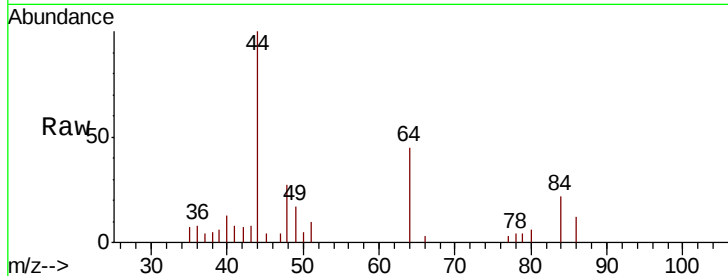




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

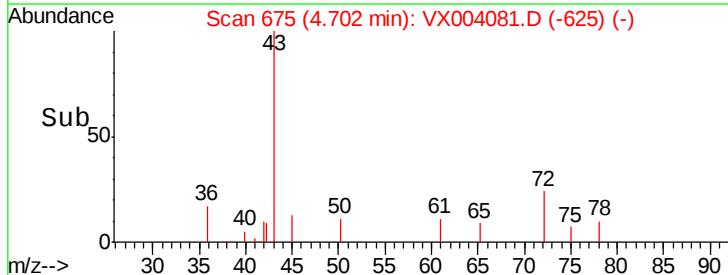
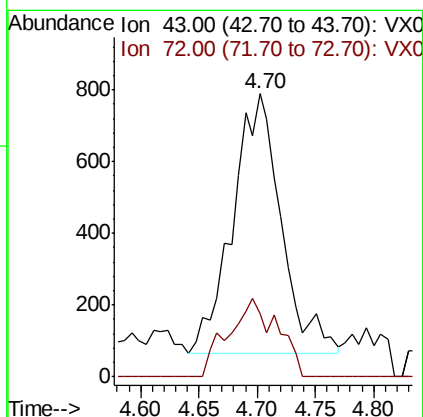
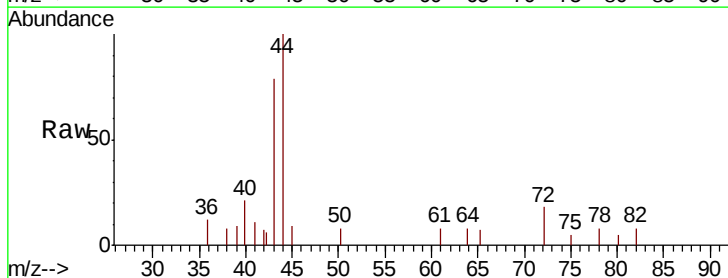
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180813

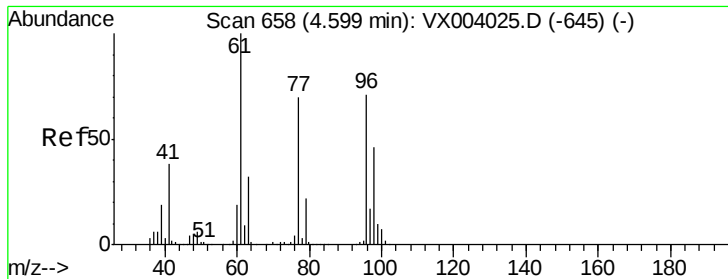
Tot Ion: 84 Resp: 638
Ion Ratio Lower Upper
84 100
49 76.8 98.9 148.3#
51 27.3 29.9 44.9#
86 53.0 51.0 76.6



#25
2-Butanone
Concen: 0.69 ug/l
RT: 4.70 min Scan# 675
Delta R.T. 0.01 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

Tgt Ion: 43 Resp: 2096
Ion Ratio Lower Upper
43 100
72 24.3 21.4 32.0





#27

cis-1,2-Dichloroethene

Concen: 0.54 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

KY038PS033-180813

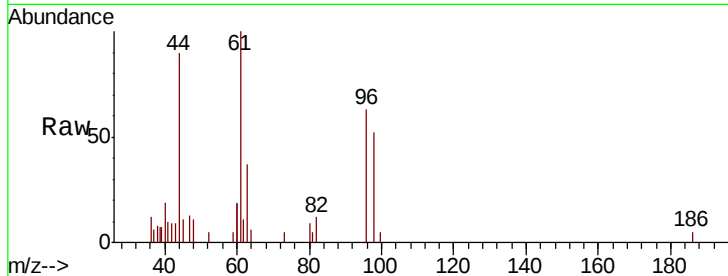
Tot Ion: 96 Resp: 1854

Ion Ratio Lower Upper

96 100

61 271.5 0.0 293.0

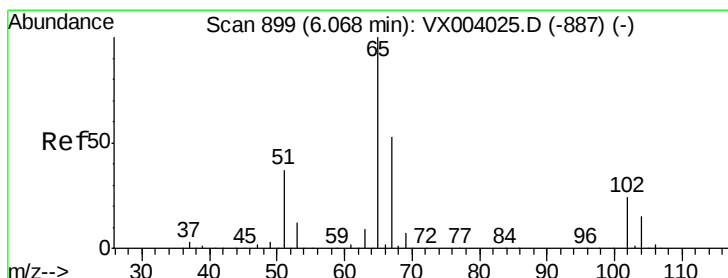
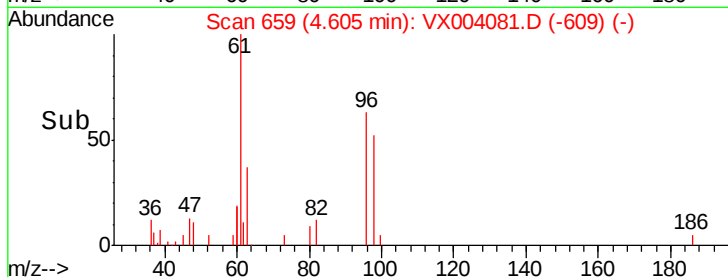
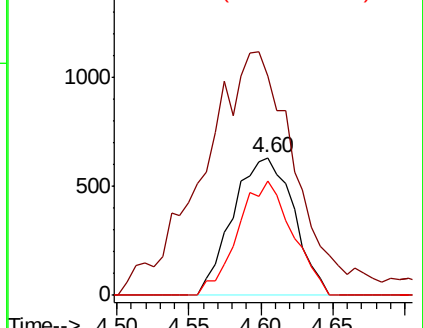
98 74.5 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.23 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004081.D

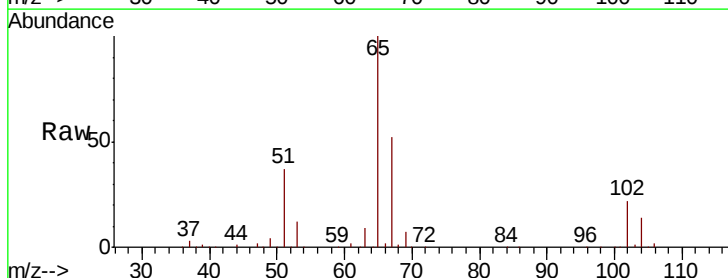
Acq: 15 Aug 2018 19:07

Tgt Ion: 65 Resp: 184519

Ion Ratio Lower Upper

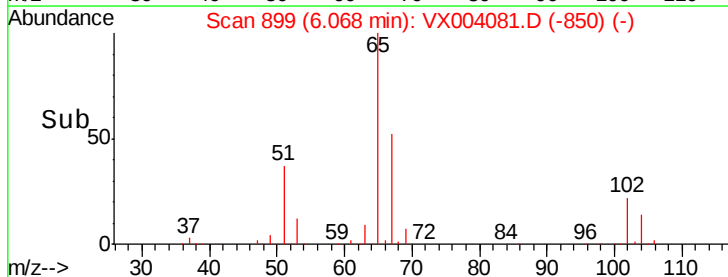
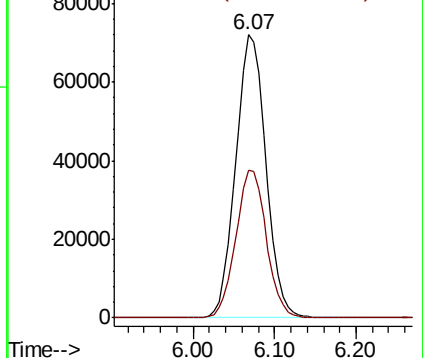
65 100

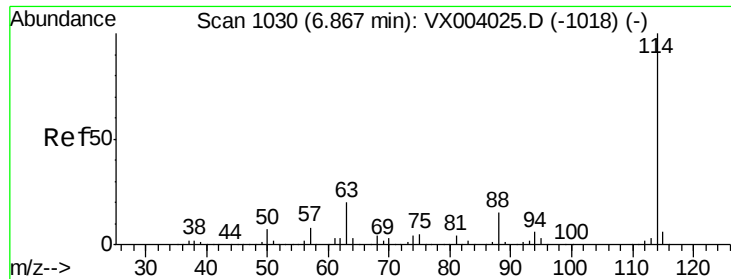
67 52.8 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

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KY038PS033-180813

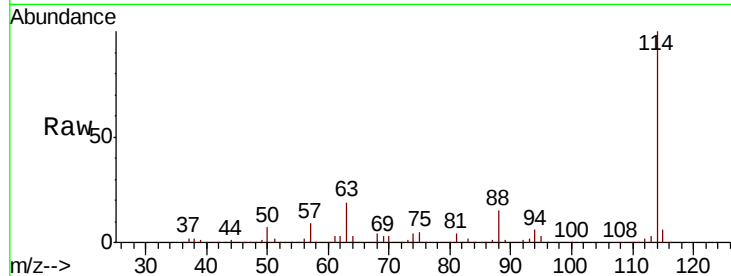
Tot Ion:114 Resp: 389526

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

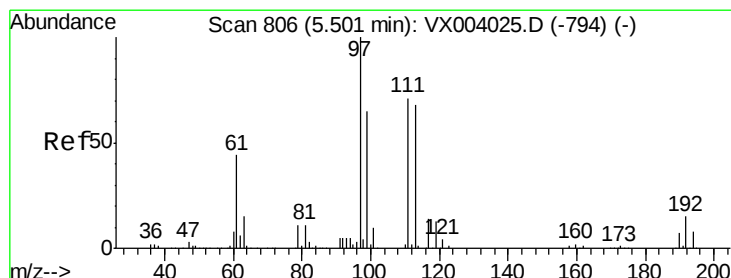
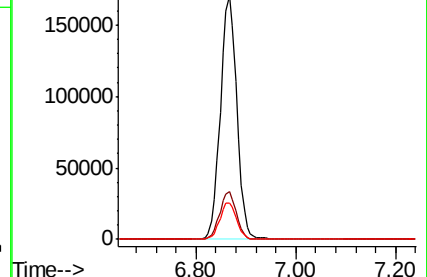
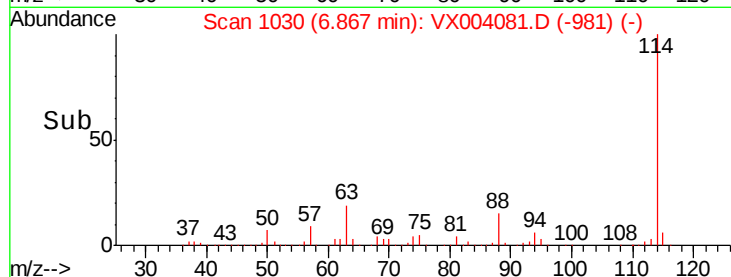
88 14.7 0.0 32.0



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: 53.19 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

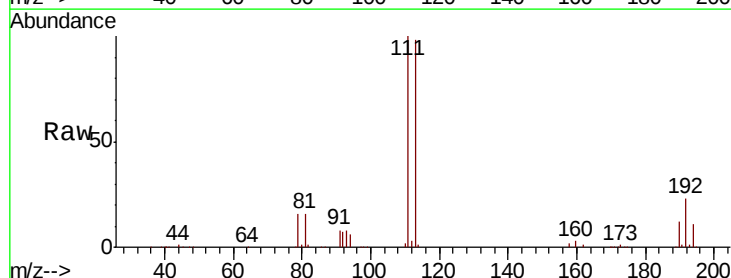
Tgt Ion:113 Resp: 155064

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

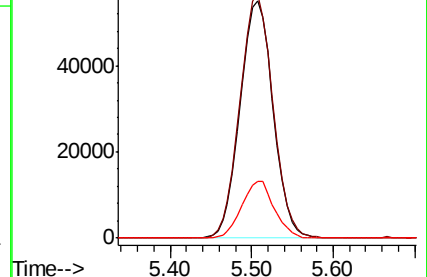
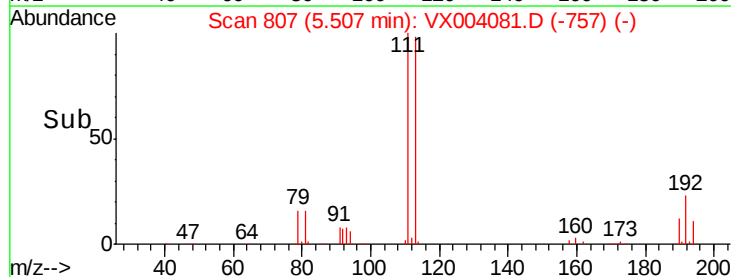
192 23.5 19.0 28.4

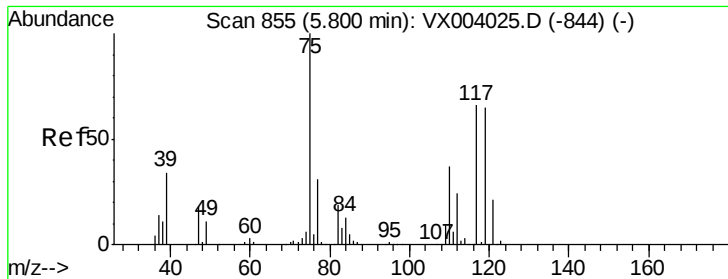


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.94 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

KY038PS033-180813

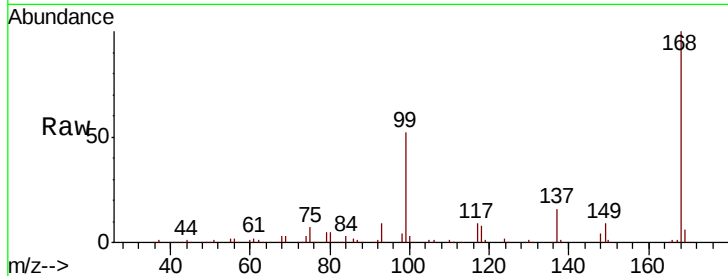
Tot Ion: 75 Resp: 17479

Ion Ratio Lower Upper

75 100

110 9.1 18.2 54.6#

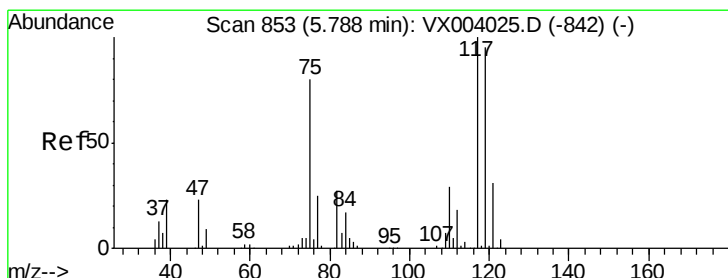
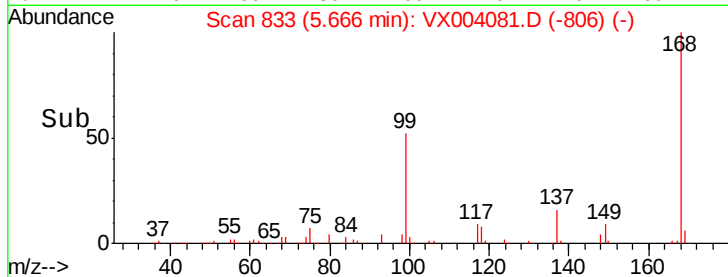
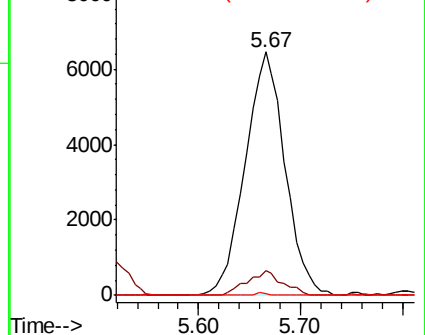
77 0.3 25.0 37.4#



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



#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

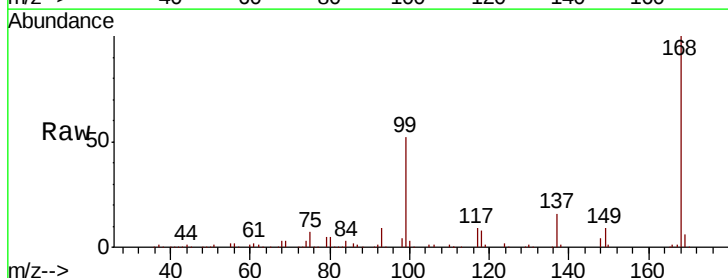
Tgt Ion: 117 Resp: 22801

Ion Ratio Lower Upper

117 100

119 6.9 79.5 119.3#

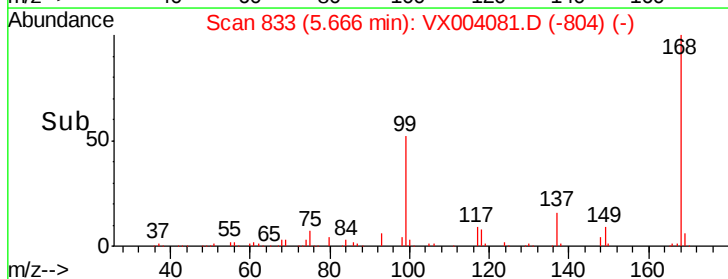
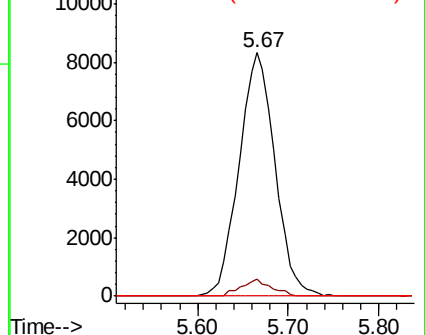
121 0.0 25.0 37.4#

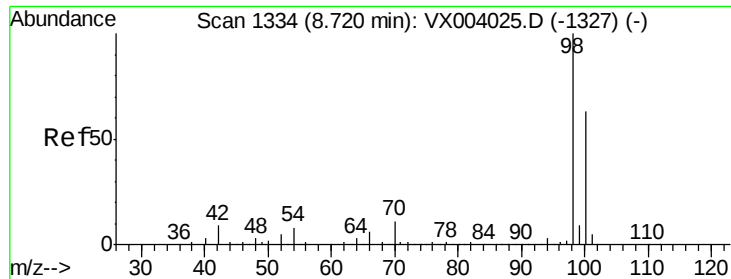


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

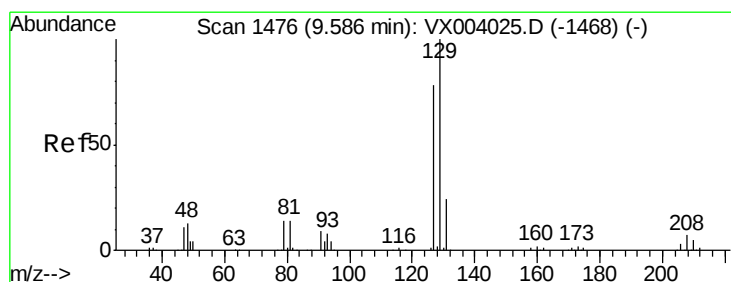
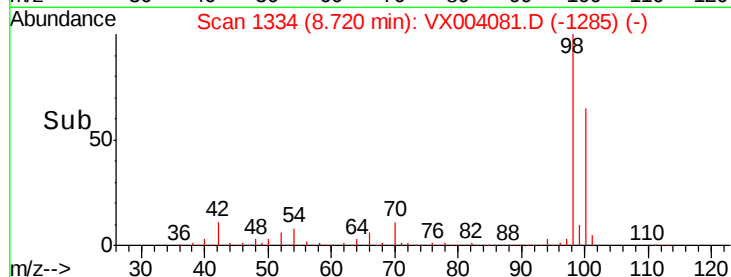
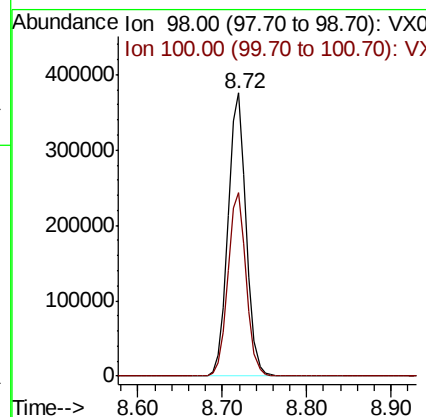
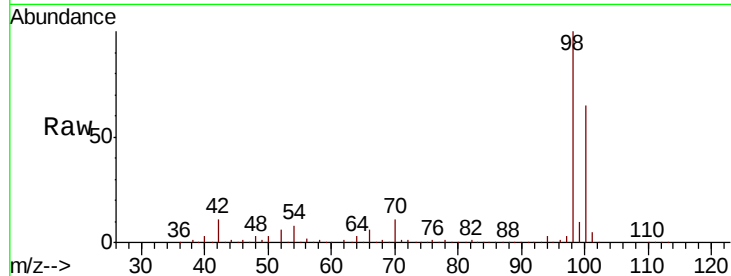




#50
Toluene-d8
Concen: 47.15 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

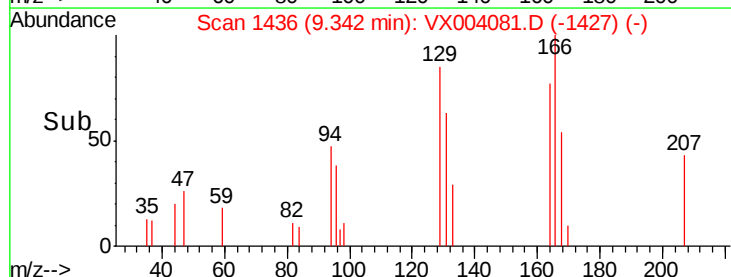
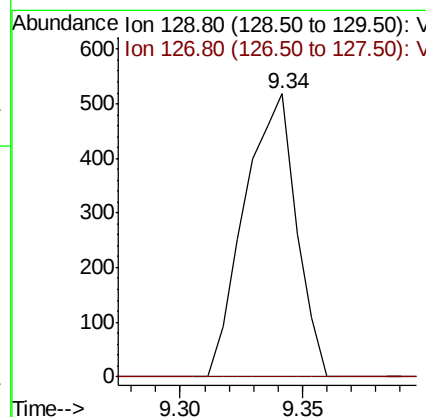
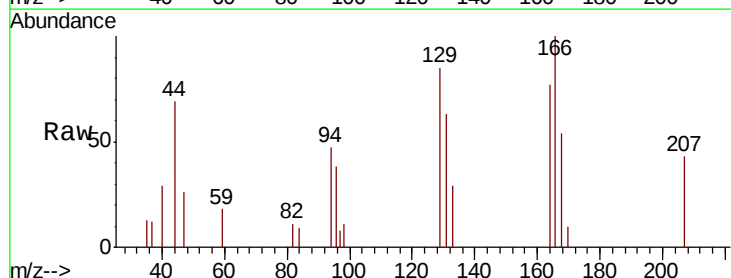
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180813

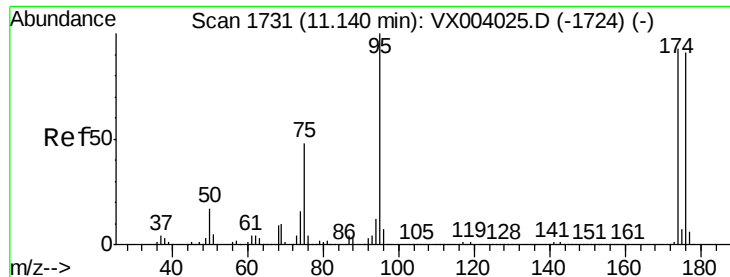
Tot Ion: 98 Resp: 557257
Ion Ratio Lower Upper
98 100
100 65.3 53.3 79.9



#60
Dibromochloromethane
Concen: 0.23 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

Tgt Ion: 129 Resp: 765
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#

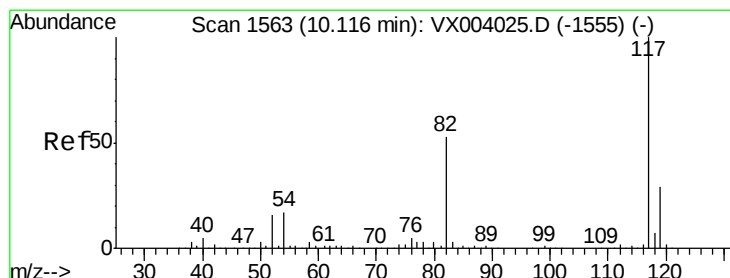
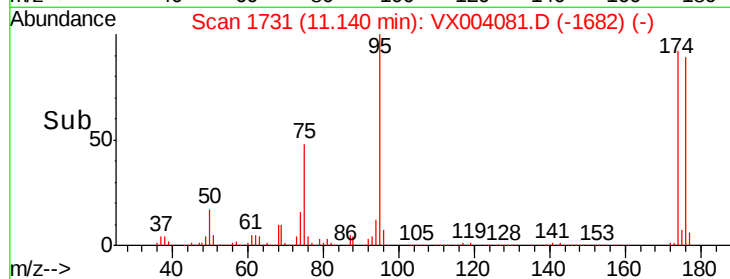
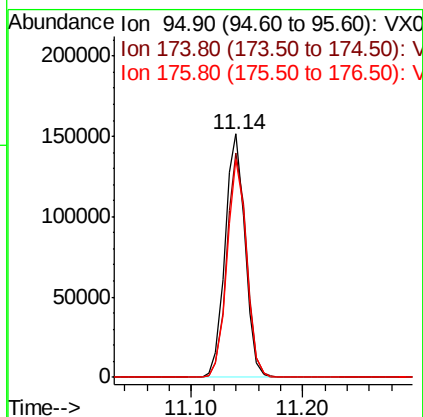
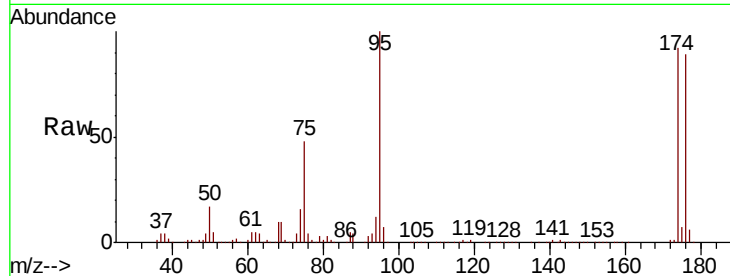




#62
4-Bromofluorobenzene
Concen: 43.67 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

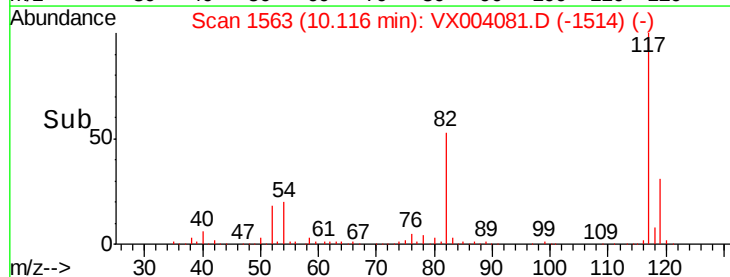
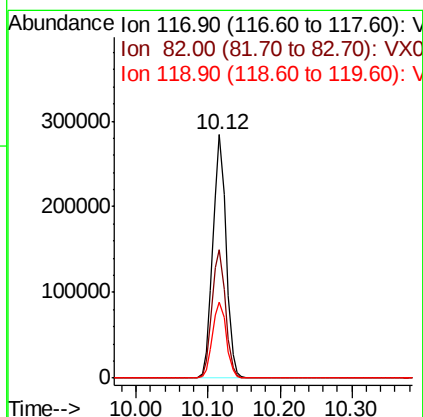
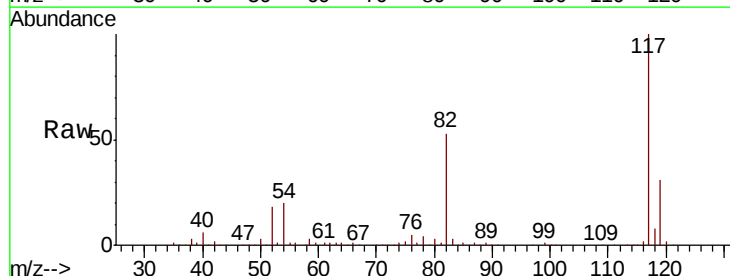
Instrument :
MSVOA_X
ClientSampleId :
KY038PS033-180813

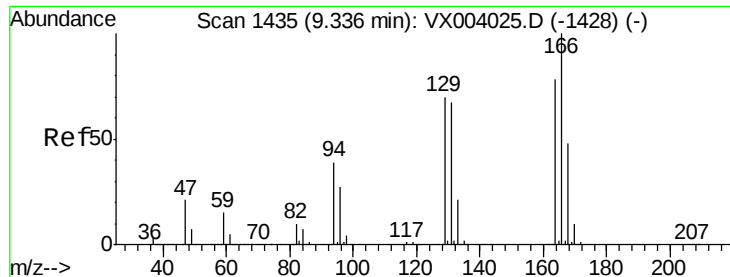
Tot Ion: 95 Resp: 187202
Ion Ratio Lower Upper
95 100
174 91.5 0.0 182.8
176 87.6 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004081.D
Acq: 15 Aug 2018 19:07

Tgt Ion: 117 Resp: 361098
Ion Ratio Lower Upper
117 100
82 52.6 45.4 68.0
119 31.4 26.6 40.0





#64

Tetrachloroethene

Concen: 0.28 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

KY038PS033-180813

Tot Ion:164 Resp: 943

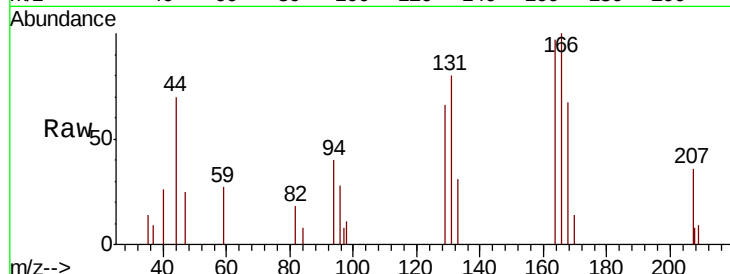
Ion Ratio Lower Upper

164 100

166 103.4 98.0 147.0

129 68.0 64.3 96.5

131 82.6 66.8 100.2

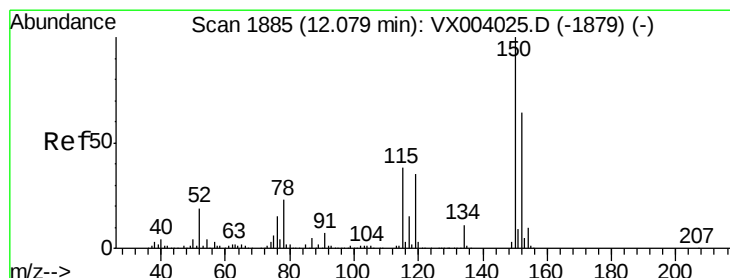
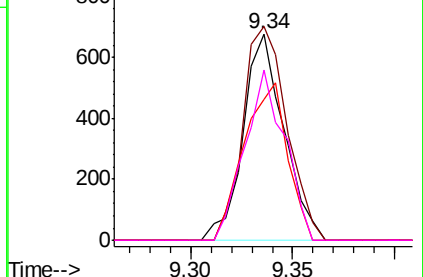
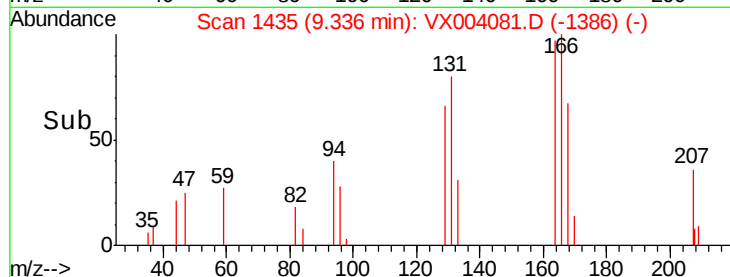


Abundance Ion 163.80 (163.50 to 164.50): V

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

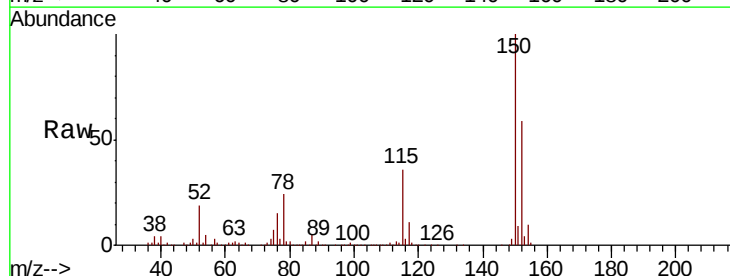
Tgt Ion:152 Resp: 187156

Ion Ratio Lower Upper

152 100

115 56.0 39.1 117.3

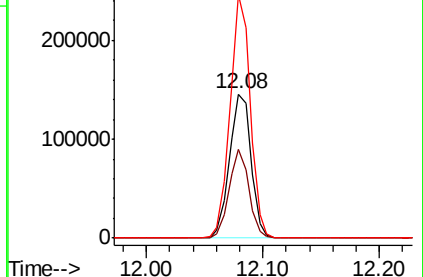
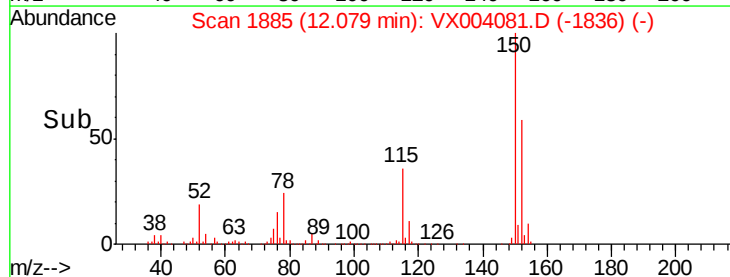
150 158.8 0.0 349.2

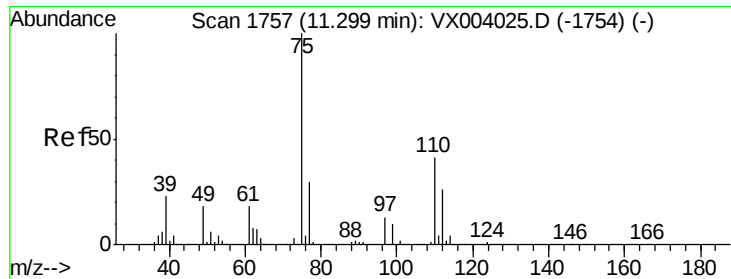


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

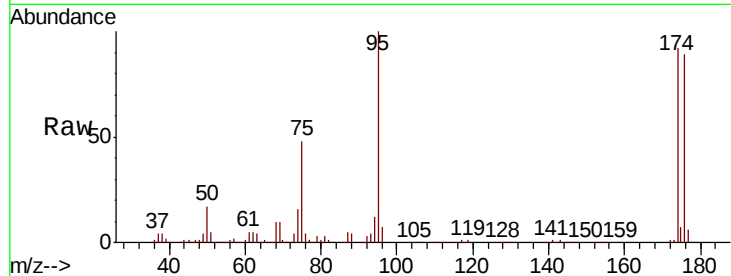
KY038PS033-180813

Tot Ion: 75 Resp: 90737

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

80000

60000

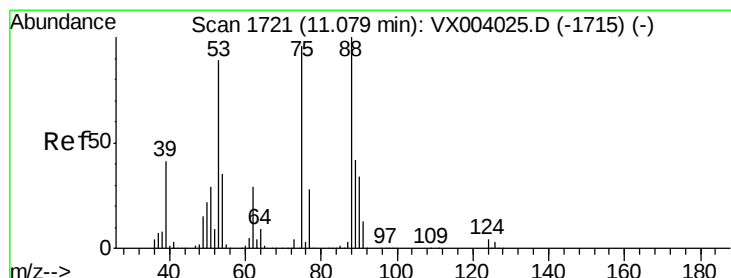
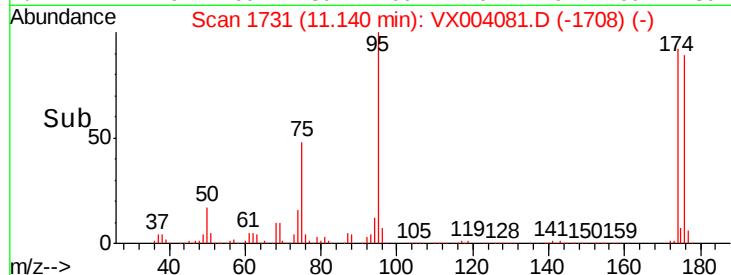
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 74.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

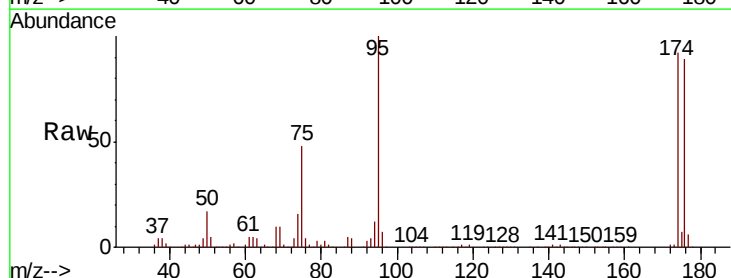
Tgt Ion: 75 Resp: 90737

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



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

100000

80000

60000

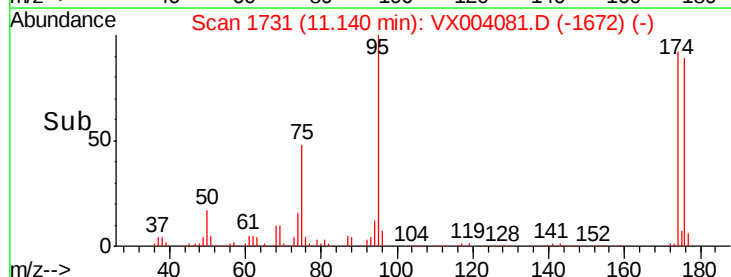
40000

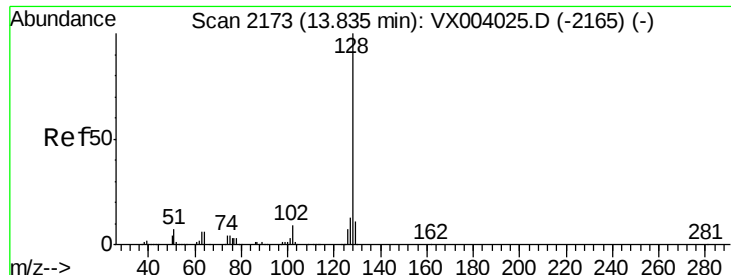
20000

0

11.10 11.20

Time-->





#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004081.D

Acq: 15 Aug 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

KY038PS033-180813

Tot Ion:128 Resp: 273

Ion Ratio Lower Upper

128 100

127 8.4 10.2 15.2#

129 0.0 8.8 13.2#

