

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003584.D
 Acq On : 22 Jul 2018 05:28
 Operator : JC/SP
 Sample : J4050-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SP011-180717

Quant Time: Jul 23 03:50:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267183	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	424289	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	373689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202118	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	175415	55.46	ug/l	0.00
Spiked Amount			Recovery	=	110.92%	
35) Dibromofluoromethane	5.51	113	154960	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
50) Toluene-d8	8.72	98	568854	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
62) 4-Bromofluorobenzene	11.14	95	192492	43.42	ug/l	0.00
Spiked Amount			Recovery	=	86.84%	

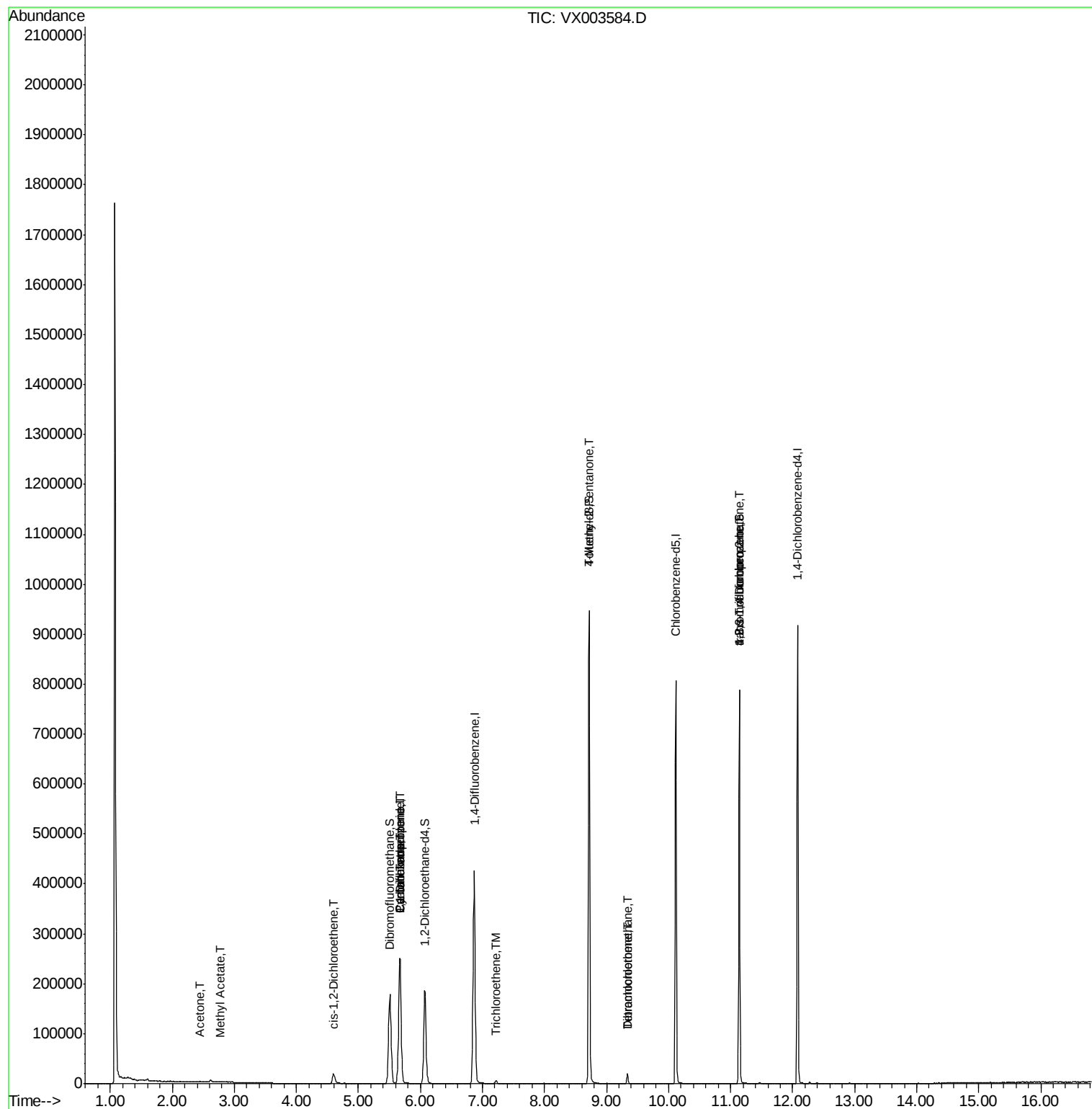
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	39	Below Cal	#	43
3) Chloromethane	1.32	50	418	Below Cal	#	81
5) Bromomethane	1.65	94	911	Below Cal		91
16) Acetone	2.45	43	1075	0.90	ug/l #	79
18) Methyl Acetate	2.78	43	986	0.26	ug/l #	85
20) Methylene Chloride	2.86	84	125	Below Cal	#	65
27) cis-1,2-Dichloroethene	4.60	96	9058	2.68	ug/l #	9
31) Cyclohexane	5.67	56	4070	0.85	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16921	3.69	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23247	5.17	ug/l #	16
44) Trichloroethene	7.22	130	2353	0.57	ug/l	95
51) 4-Methyl-2-Pentanone	8.72	43	2357	0.54	ug/l #	1
60) Dibromochloromethane	9.34	129	3700	1.08	ug/l #	11
64) Tetrachloroethene	9.34	164	4377	0.96	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	91135	25.10	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91135	70.28	ug/l #	6

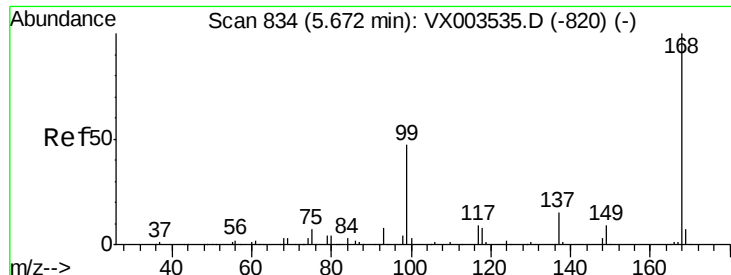
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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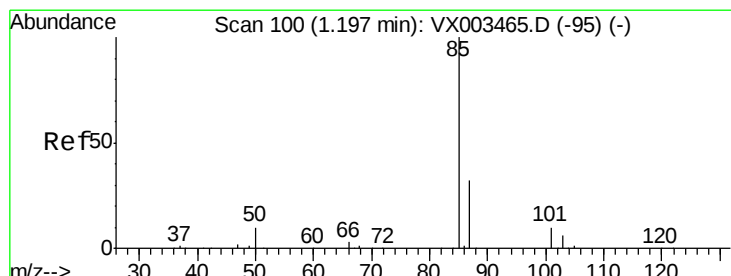
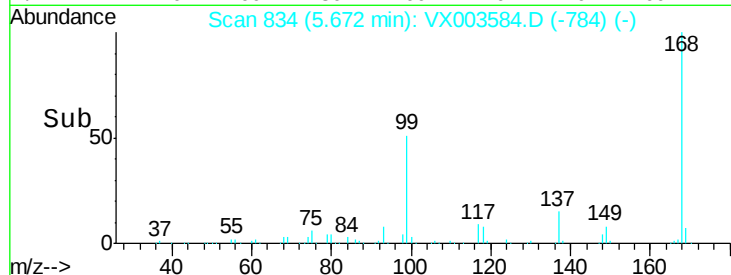
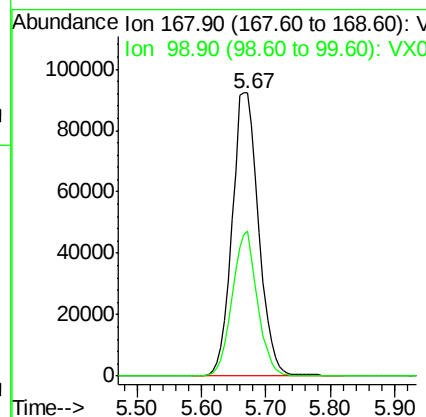
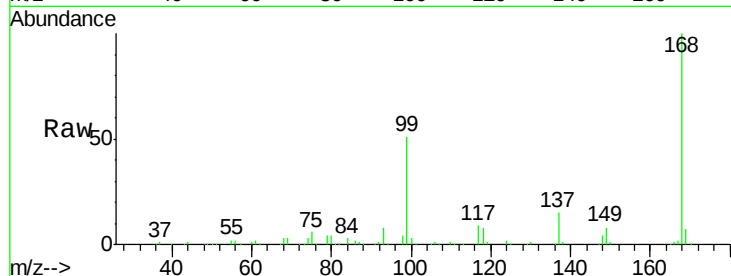




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.01 min
Lab File: VX003584.D
Acq: 22 Jul 2018 05:28

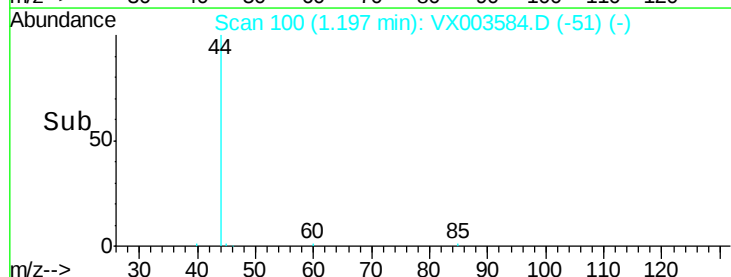
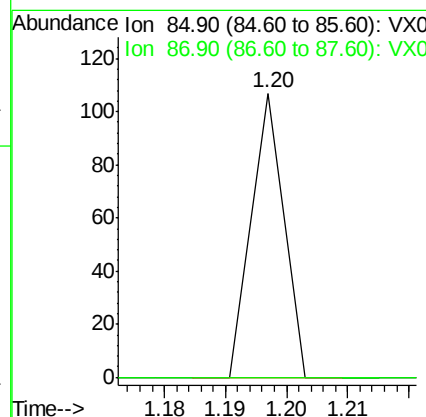
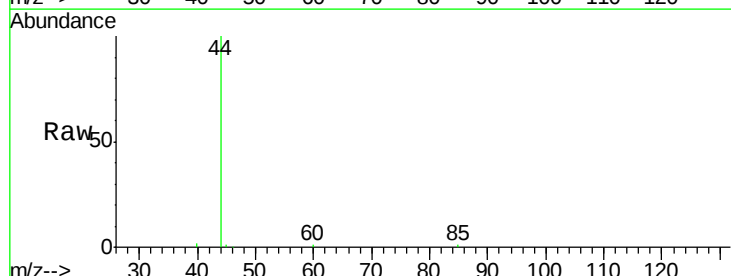
Instrument :
MSVOA_X
ClientSampleId :
KY030SP011-180717

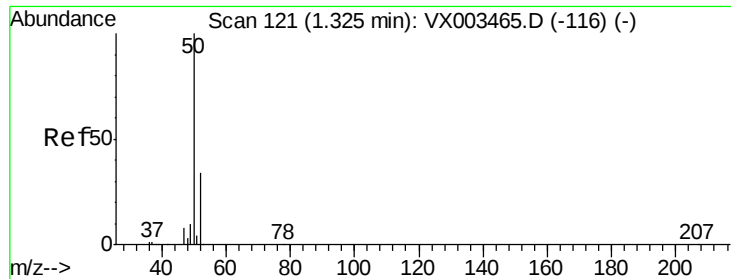
Tot Ion:168 Resp: 267183
Ion Ratio Lower Upper
168 100
99 51.1 39.3 58.9



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.20 min Scan# 100
Delta R.T. 0.00 min
Lab File: VX003584.D
Acq: 22 Jul 2018 05:28

Tgt Ion: 85 Resp: 39
Ion Ratio Lower Upper
85 100
87 0.0 16.0 47.9#





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

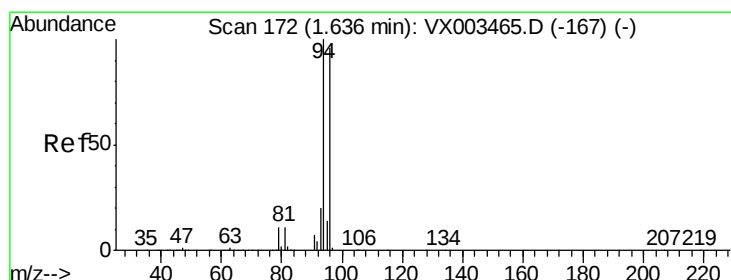
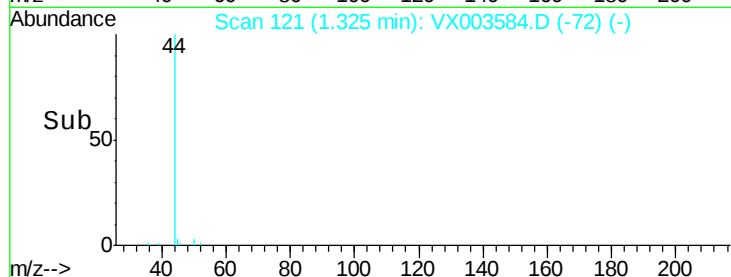
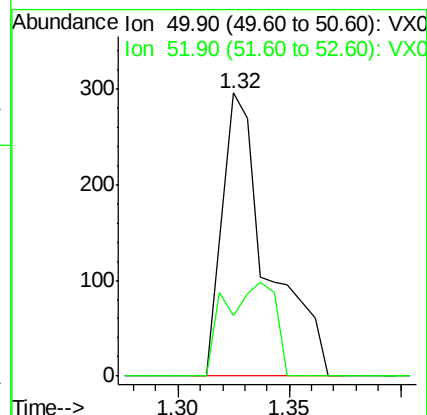
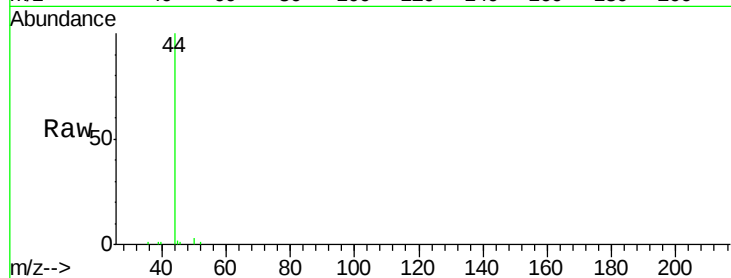
KY030SP011-180717

Tot Ion: 50 Resp: 418

Ion Ratio Lower Upper

50 100

52 21.3 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003584.D

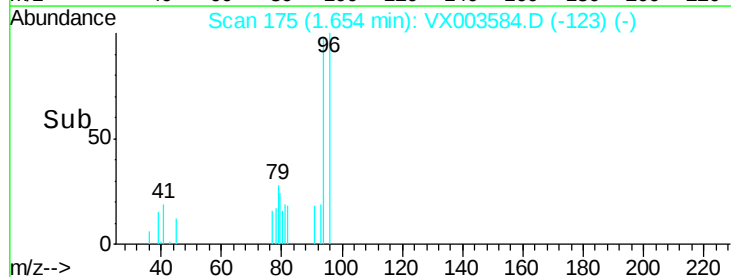
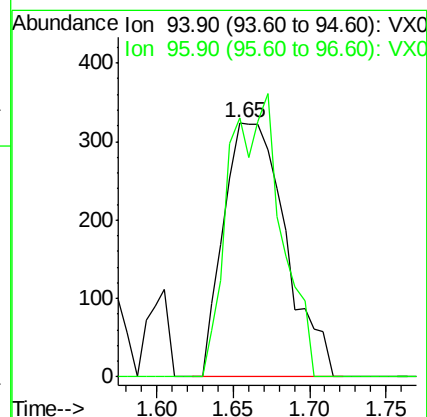
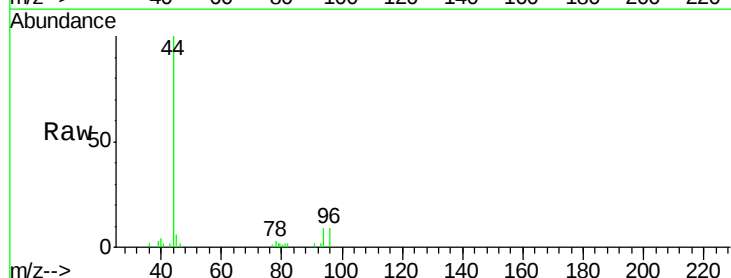
Acq: 22 Jul 2018 05:28

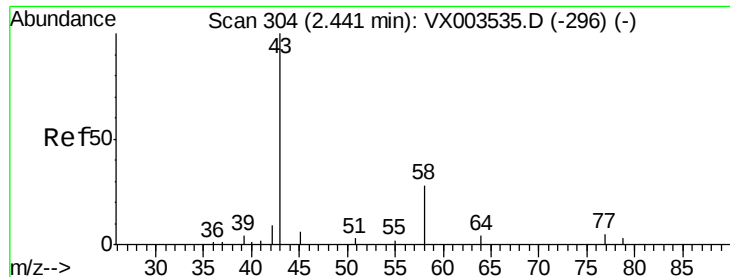
Tgt Ion: 94 Resp: 911

Ion Ratio Lower Upper

94 100

96 101.9 74.9 112.3





#16

Acetone

Concen: 0.90 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

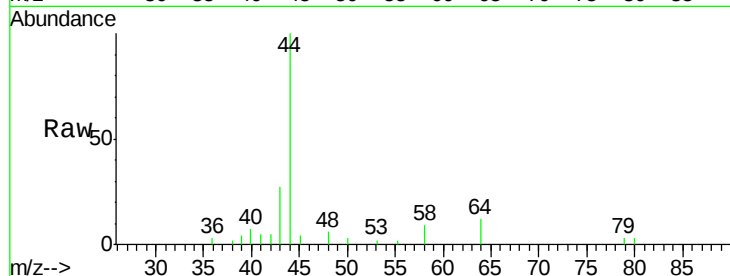
KY030SP011-180717

Tot Ion: 43 Resp: 1075

Ion Ratio Lower Upper

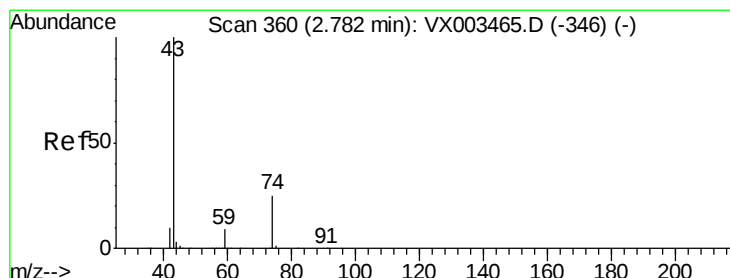
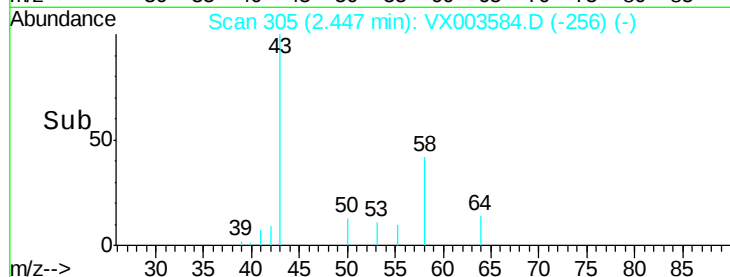
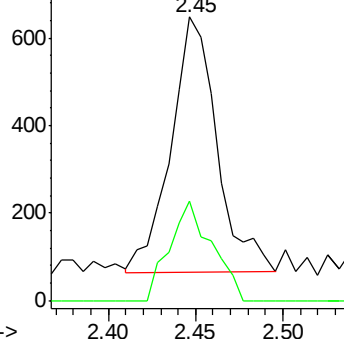
43 100

58 38.8 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.26 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX003584.D

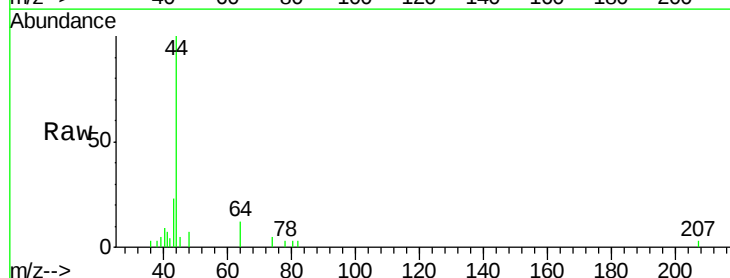
Acq: 22 Jul 2018 05:28

Tgt Ion: 43 Resp: 986

Ion Ratio Lower Upper

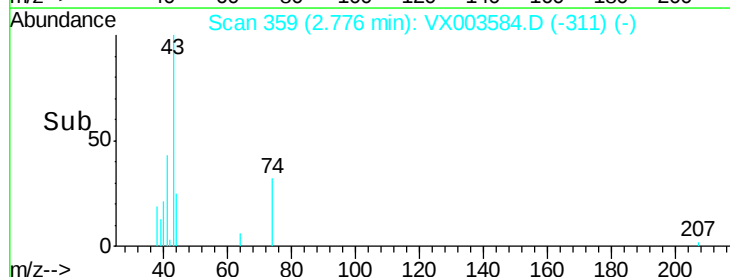
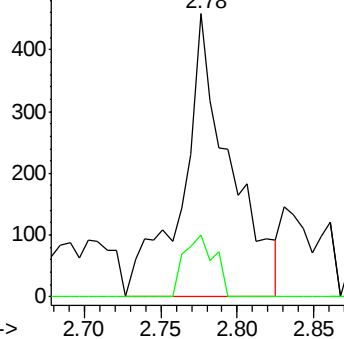
43 100

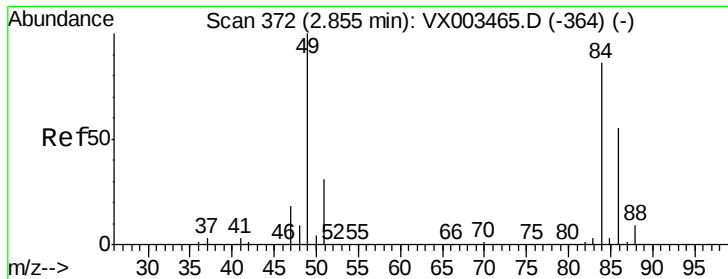
74 14.1 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

KY030SP011-180717

Tot Ion: 84 Resp: 125

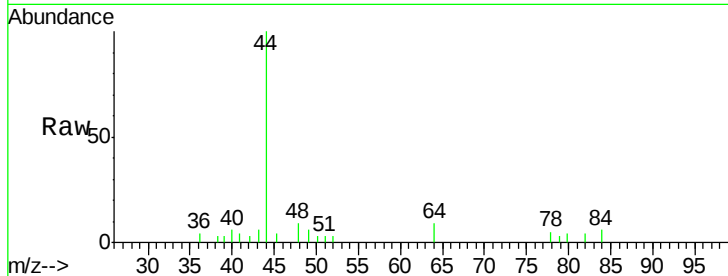
Ion Ratio Lower Upper

84 100

49 108.7 107.8 161.6

51 43.7 32.8 49.2

86 0.0 52.5 78.7#

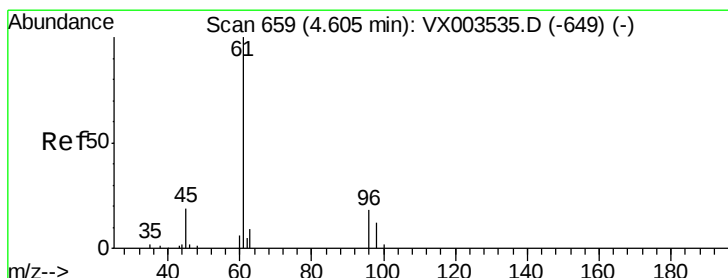
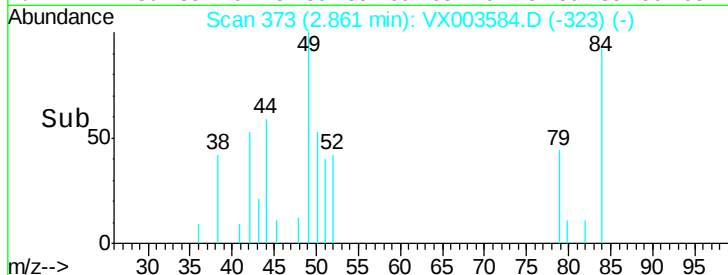
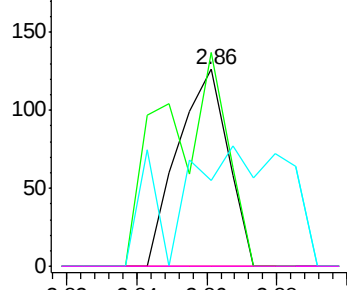


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#27

cis-1,2-Dichloroethene

Concen: 2.68 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

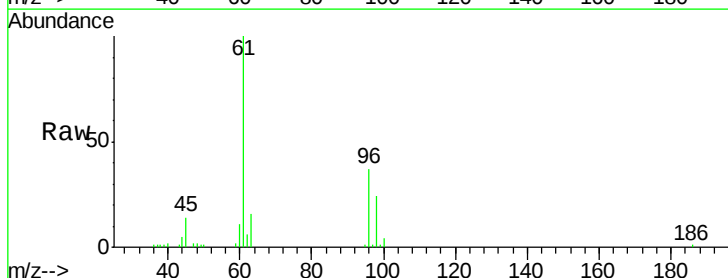
Tgt Ion: 96 Resp: 9058

Ion Ratio Lower Upper

96 100

61 333.3 0.0 330.2#

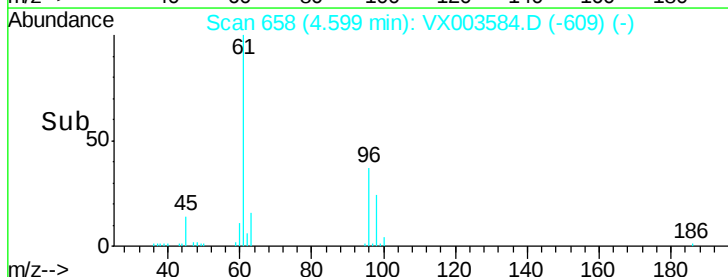
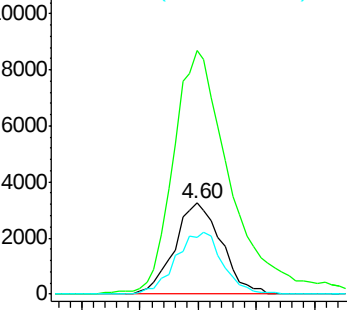
98 67.6 0.0 130.2

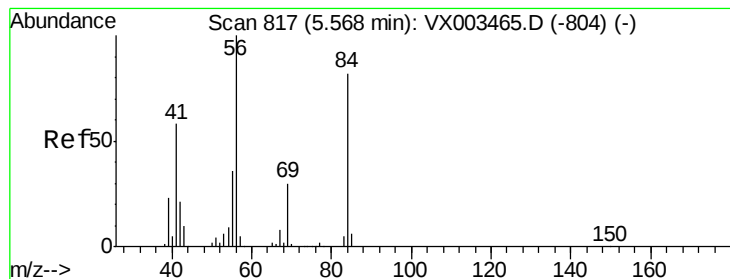


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 0.85 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

KY030SP011-180717

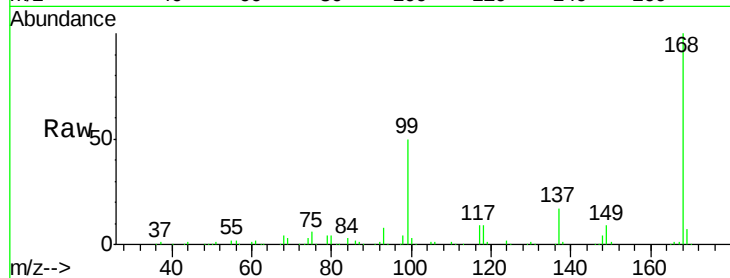
Tot Ion: 56 Resp: 4070

Ion Ratio Lower Upper

56 100

69 201.5 23.7 35.5#

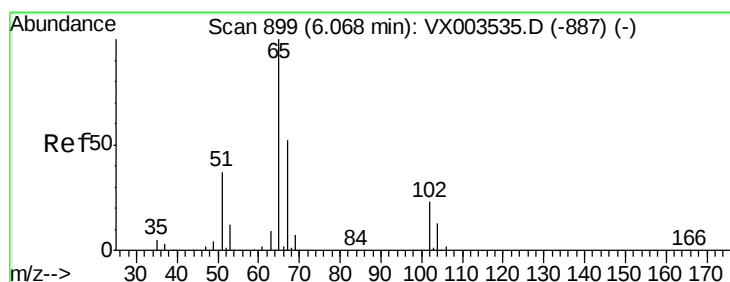
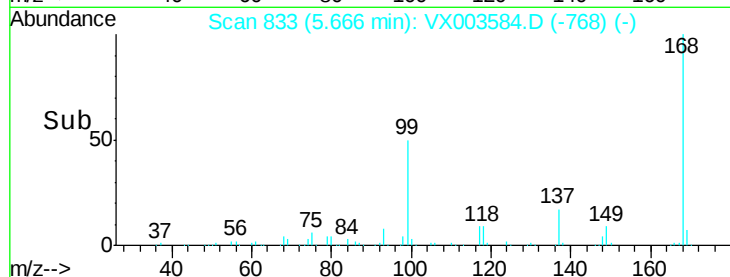
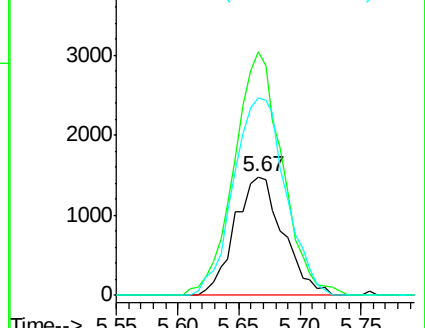
84 167.0 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 55.46 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003584.D

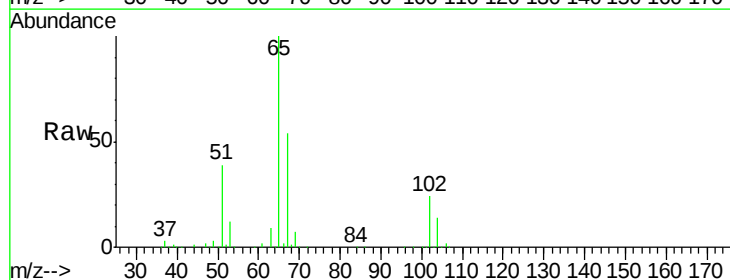
Acq: 22 Jul 2018 05:28

Tgt Ion: 65 Resp: 175415

Ion Ratio Lower Upper

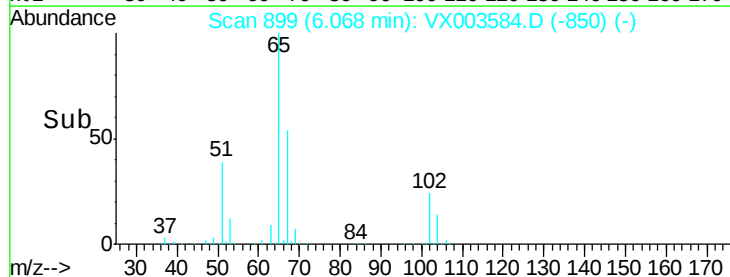
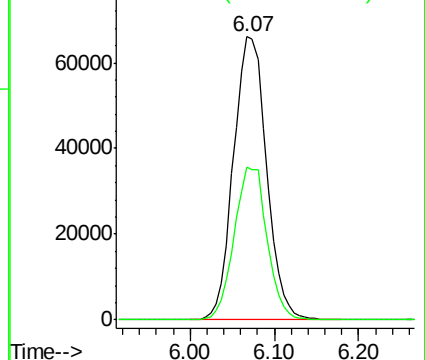
65 100

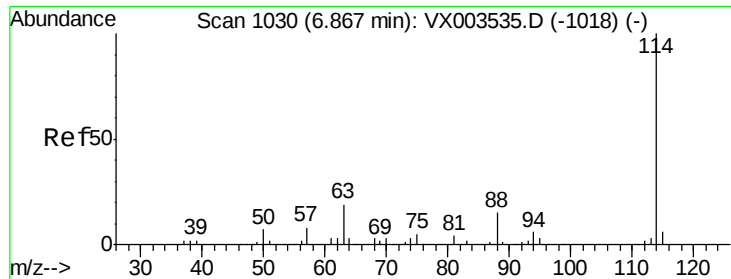
67 53.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

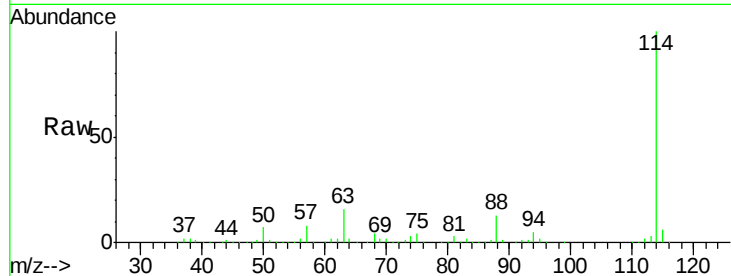




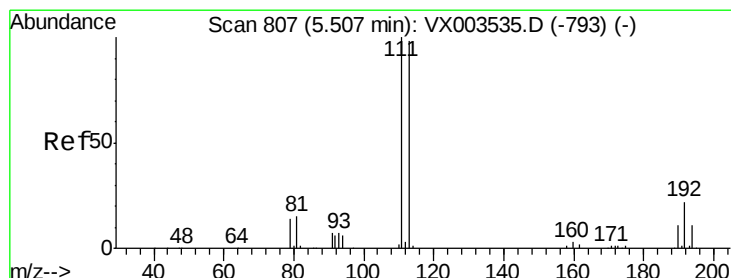
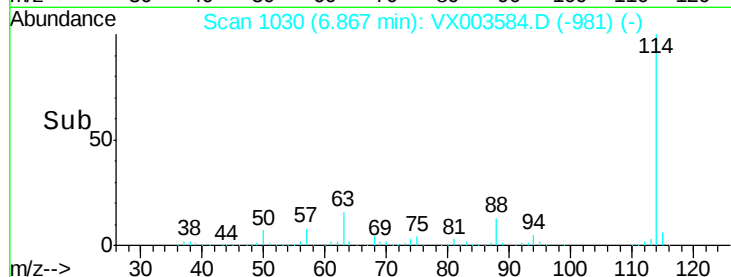
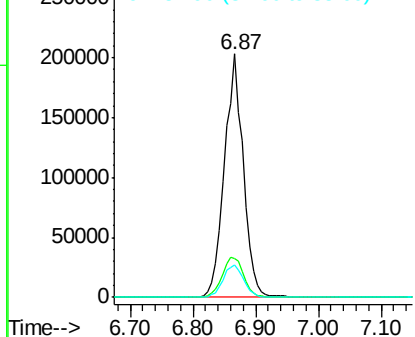
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003584.D
 Acq: 22 Jul 2018 05:28

Instrument :
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 KY030SP011-180717

Tot Ion:114 Resp: 424289
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 41.4
 88 13.4 0.0 30.0

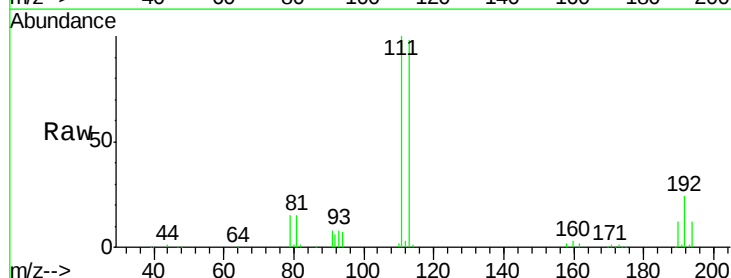


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

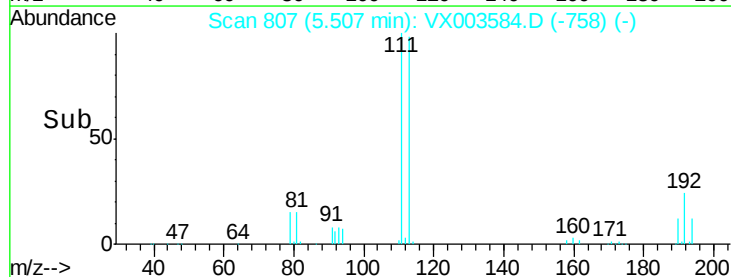
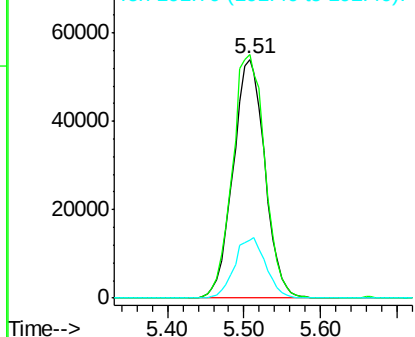


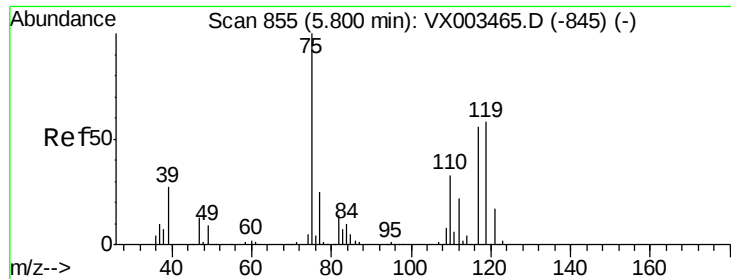
#35
 Dibromofluoromethane
 Concen: 47.95 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003584.D
 Acq: 22 Jul 2018 05:28

Tgt Ion:113 Resp: 154960
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.4 122.0
 192 24.9 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.69 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

KY030SP011-180717

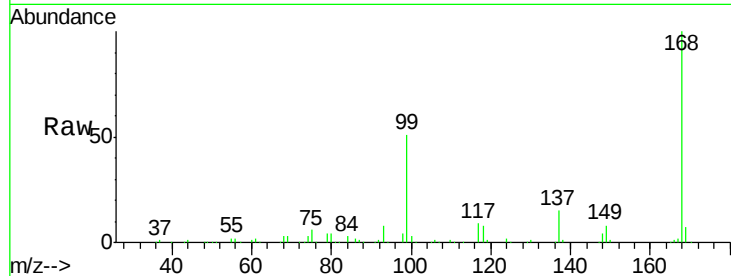
Tot Ion: 75 Resp: 16921

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.4#

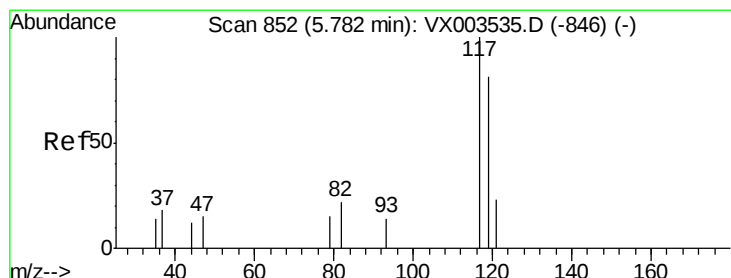
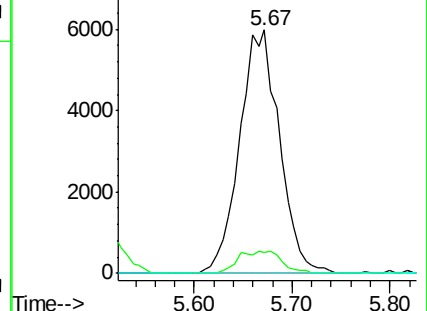
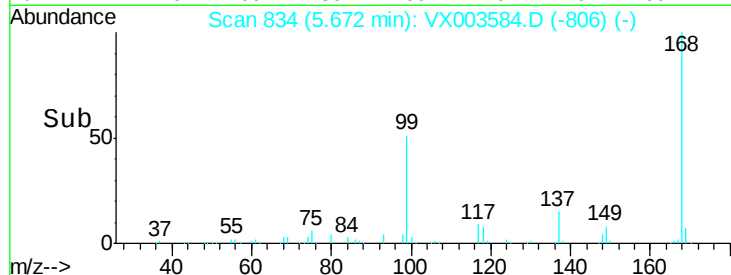
77 0.0 24.3 36.5#



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: 5.17 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

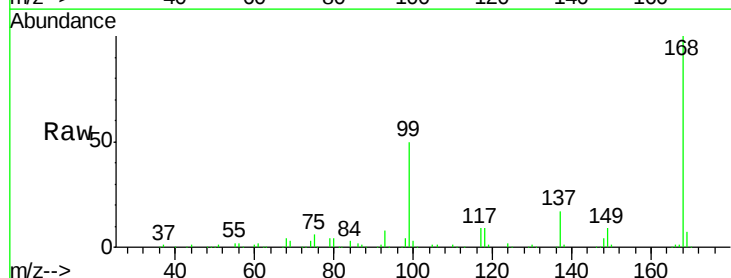
Tgt Ion: 117 Resp: 23247

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

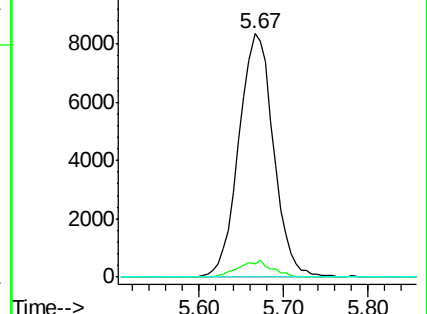
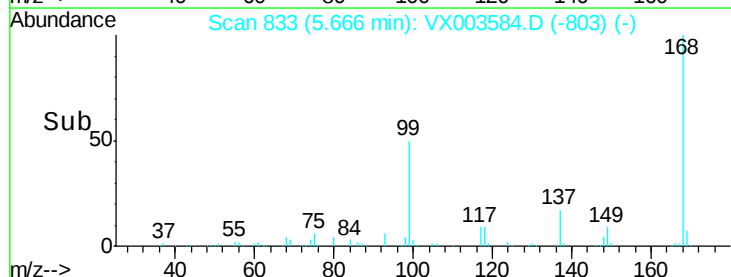
121 0.0 24.4 36.6#

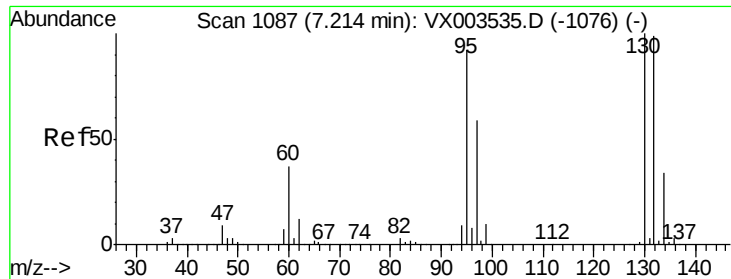


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.57 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

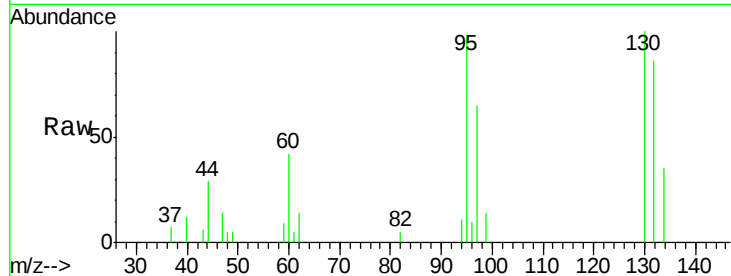
KY030SP011-180717

Tot Ion:130 Resp: 2353

Ion Ratio Lower Upper

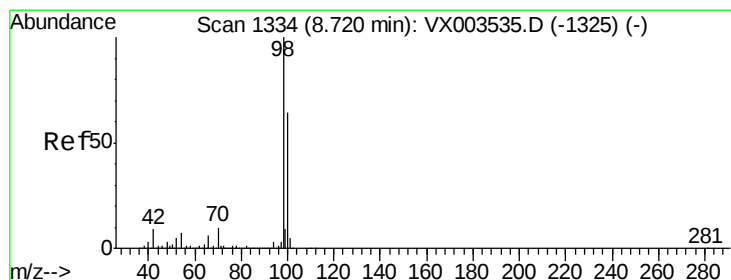
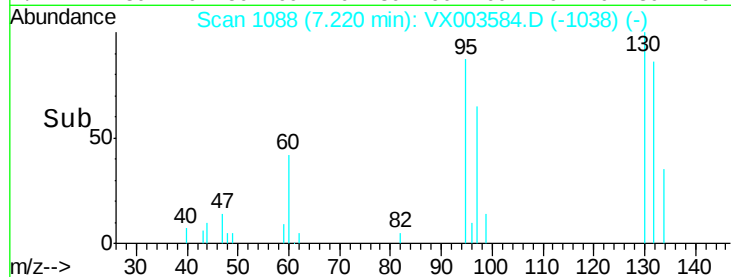
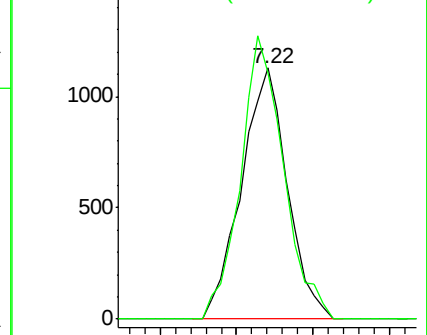
130 100

95 98.0 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 46.83 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003584.D

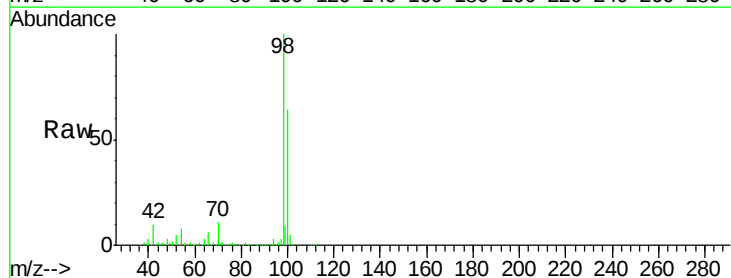
Acq: 22 Jul 2018 05:28

Tgt Ion: 98 Resp: 568854

Ion Ratio Lower Upper

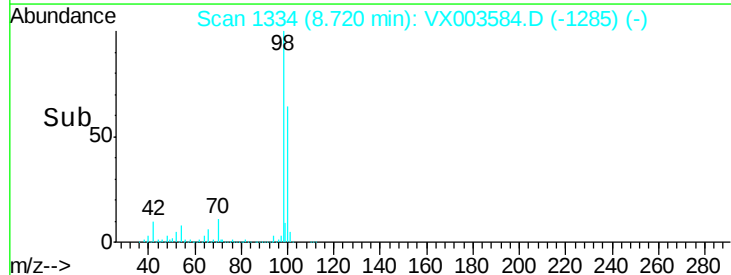
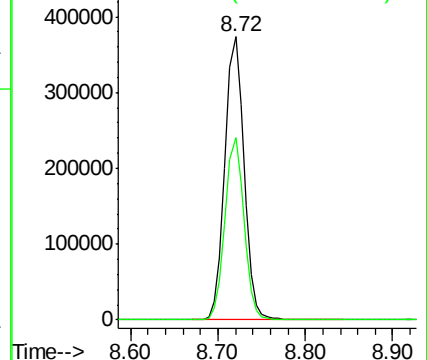
98 100

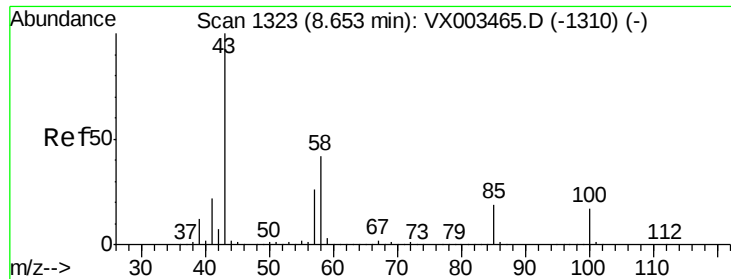
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.54 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

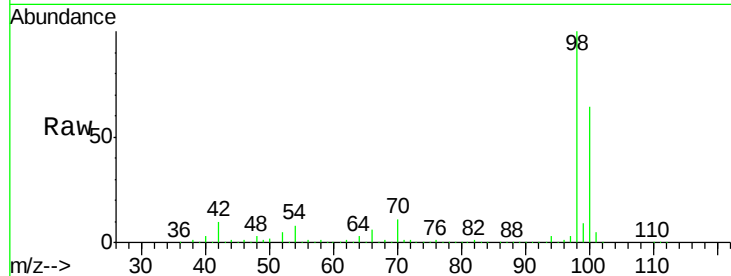
KY030SP011-180717

Tot Ion: 43 Resp: 2357

Ion Ratio Lower Upper

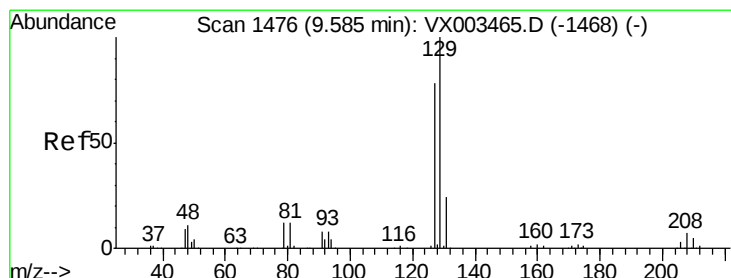
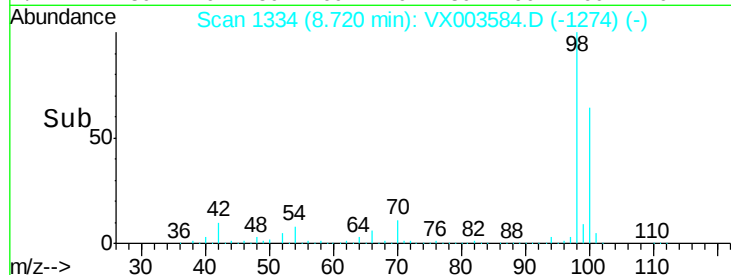
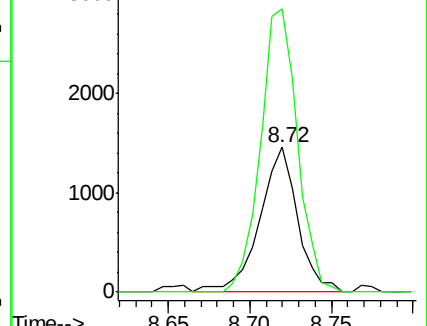
43 100

58 189.5 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 1.08 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX003584.D

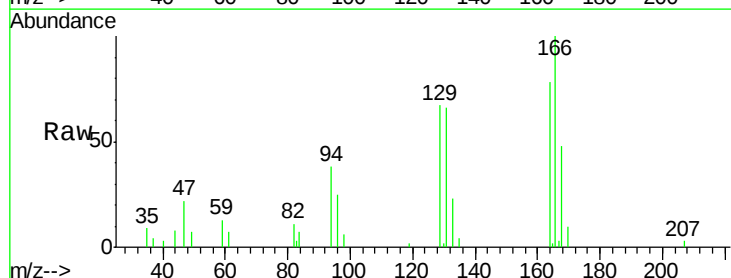
Acq: 22 Jul 2018 05:28

Tgt Ion: 129 Resp: 3700

Ion Ratio Lower Upper

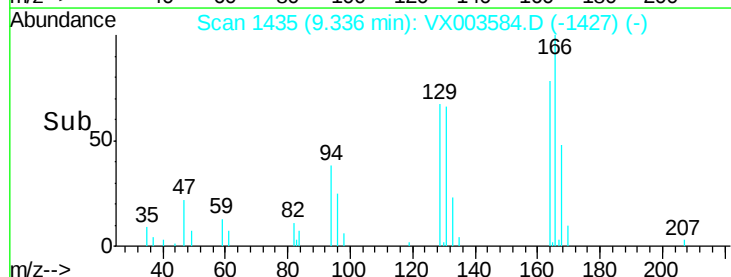
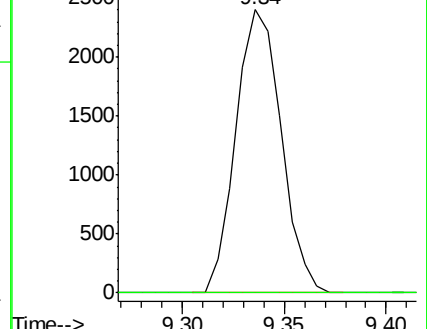
129 100

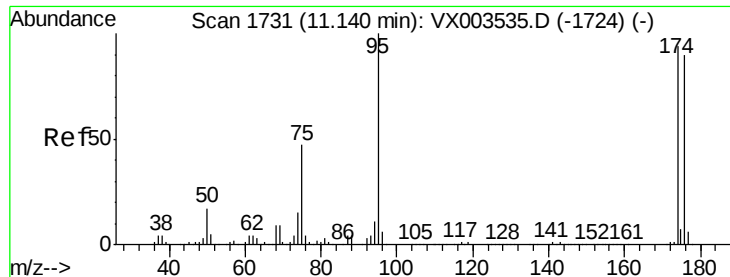
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

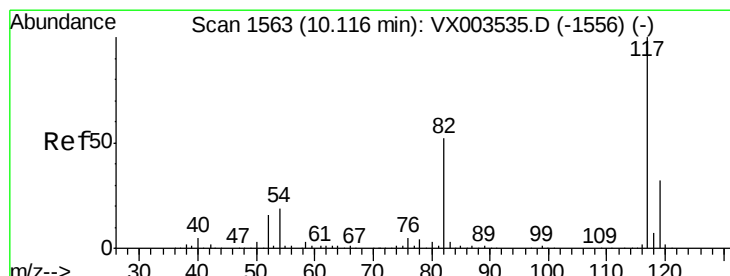
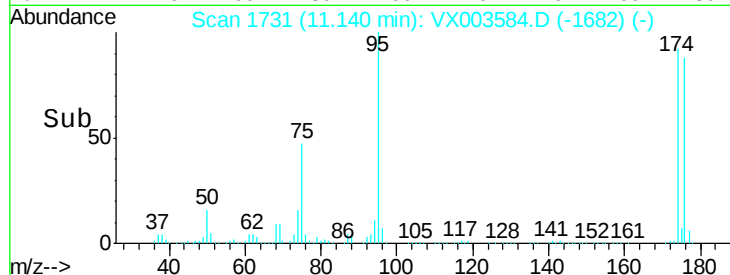
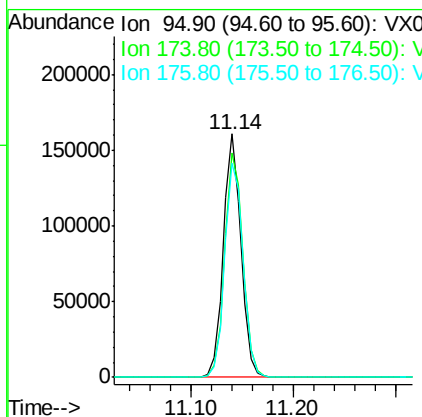
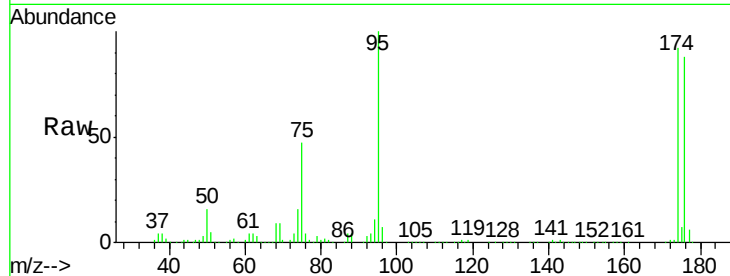




#62
4-Bromofluorobenzene
Concen: 43.42 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003584.D
Acq: 22 Jul 2018 05:28

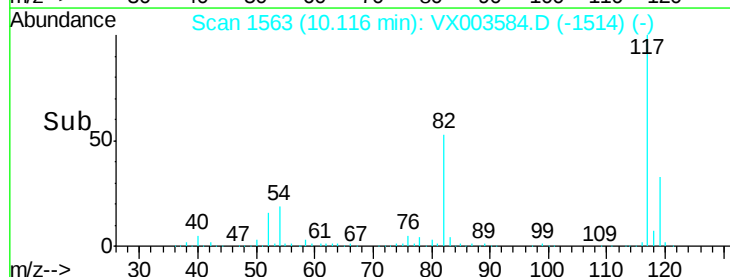
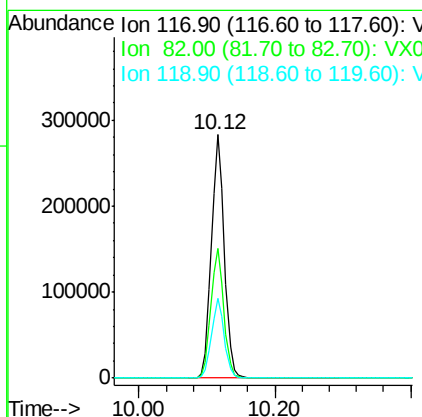
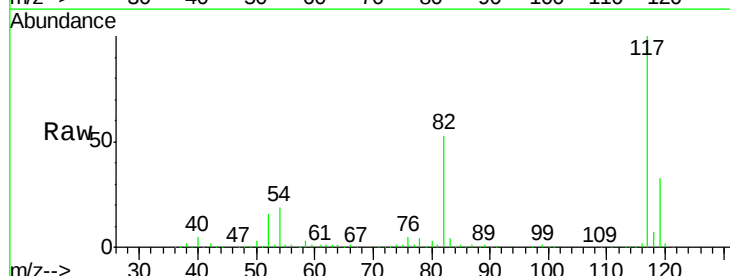
Instrument :
MSVOA_X
ClientSampleId :
KY030SP011-180717

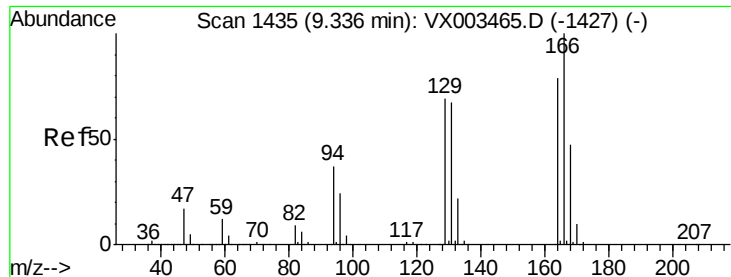
Tot Ion: 95 Resp: 192492
Ion Ratio Lower Upper
95 100
174 95.4 0.0 187.4
176 91.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003584.D
Acq: 22 Jul 2018 05:28

Tgt Ion: 117 Resp: 373689
Ion Ratio Lower Upper
117 100
82 53.5 45.0 67.4
119 32.6 25.8 38.6





#64

Tetrachloroethene

Concen: 0.96 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.01 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

KY030SP011-180717

Tot Ion:164 Resp: 4377

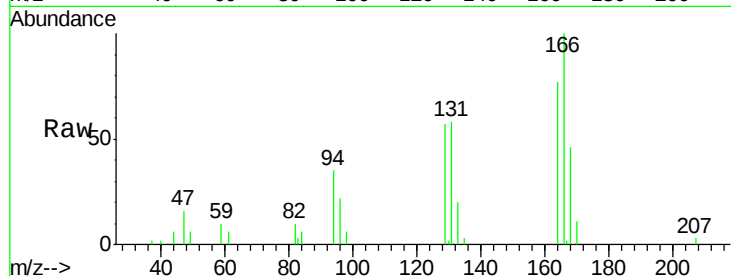
Ion Ratio Lower Upper

164 100

166 130.7 102.9 154.3

129 74.7 68.6 102.8

131 76.4 66.8 100.2

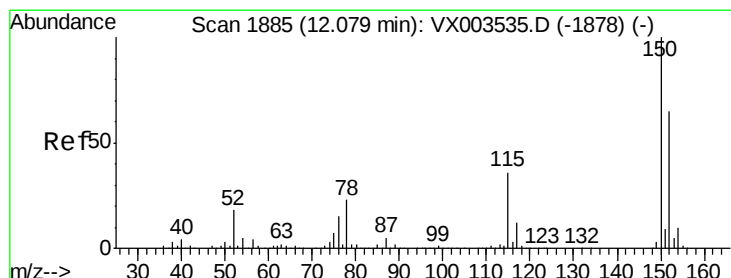
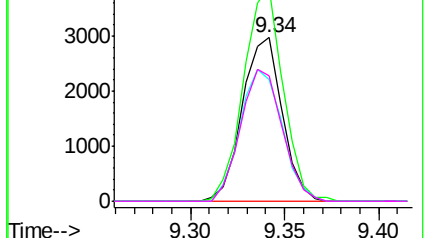
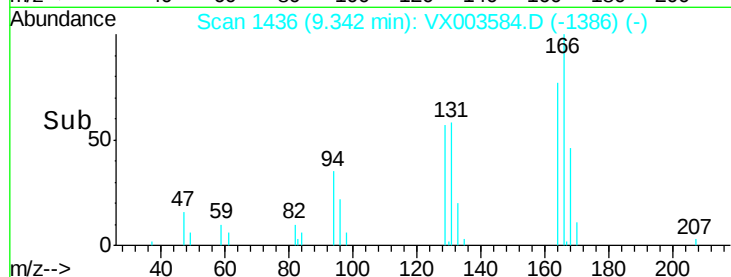


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX003584.D

Acq: 22 Jul 2018 05:28

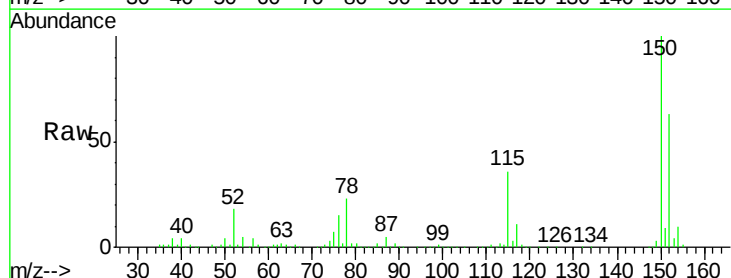
Tgt Ion:152 Resp: 202118

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

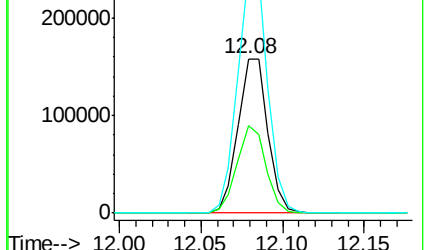
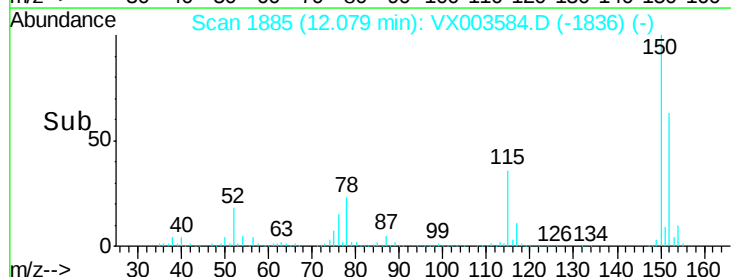
150 157.8 0.0 347.2

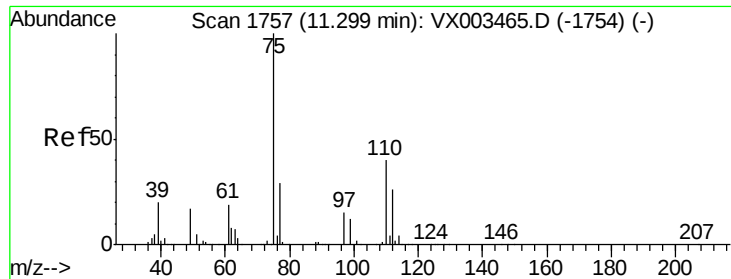


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

Instrument :

MSVOA_X

ClientSampleId :

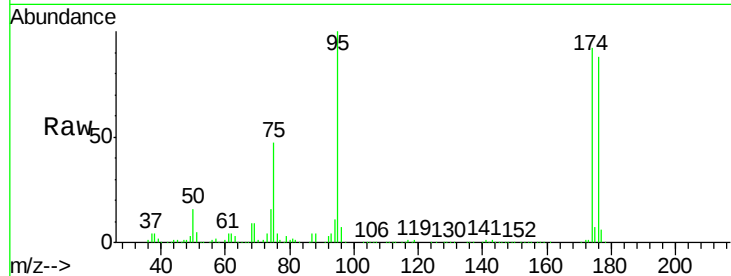
KY030SP011-180717

Tot Ion: 75 Resp: 91135

Ion Ratio Lower Upper

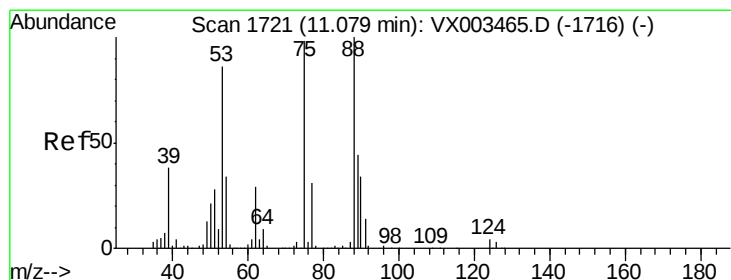
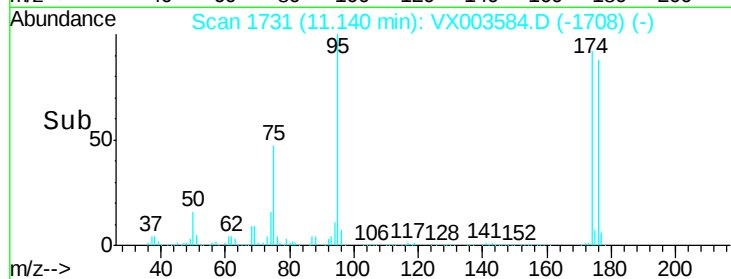
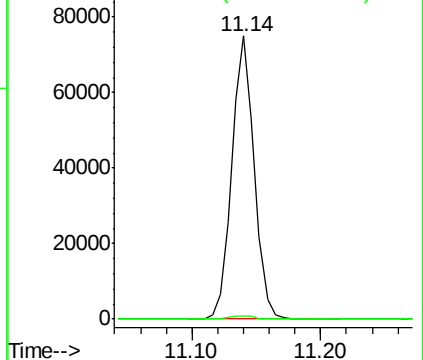
75 100

77 1.3 22.8 68.3#



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: 70.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003584.D

Acq: 22 Jul 2018 05:28

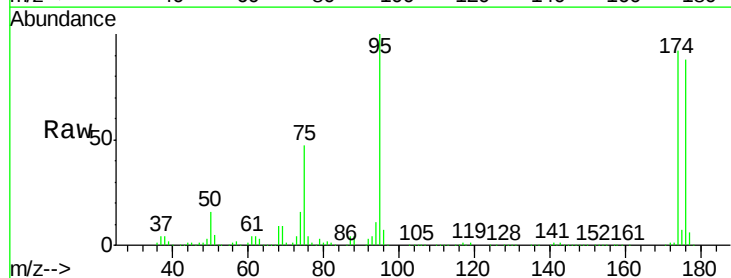
Tgt Ion: 75 Resp: 91135

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

