

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080718\
 Data File : VX003903.D
 Acq On : 08 Aug 2018 02:45
 Operator : JC/MD
 Sample : VX0807WBL03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0807WBL03

Quant Time: Aug 08 04:52:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	289228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	455686	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	430167	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219511	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	203934	53.19	ug/l	0.00
Spiked Amount			Recovery	=	106.38%	
35) Dibromofluoromethane	5.51	113	171268	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.72	98	643289	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
62) 4-Bromofluorobenzene	11.14	95	219464	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	

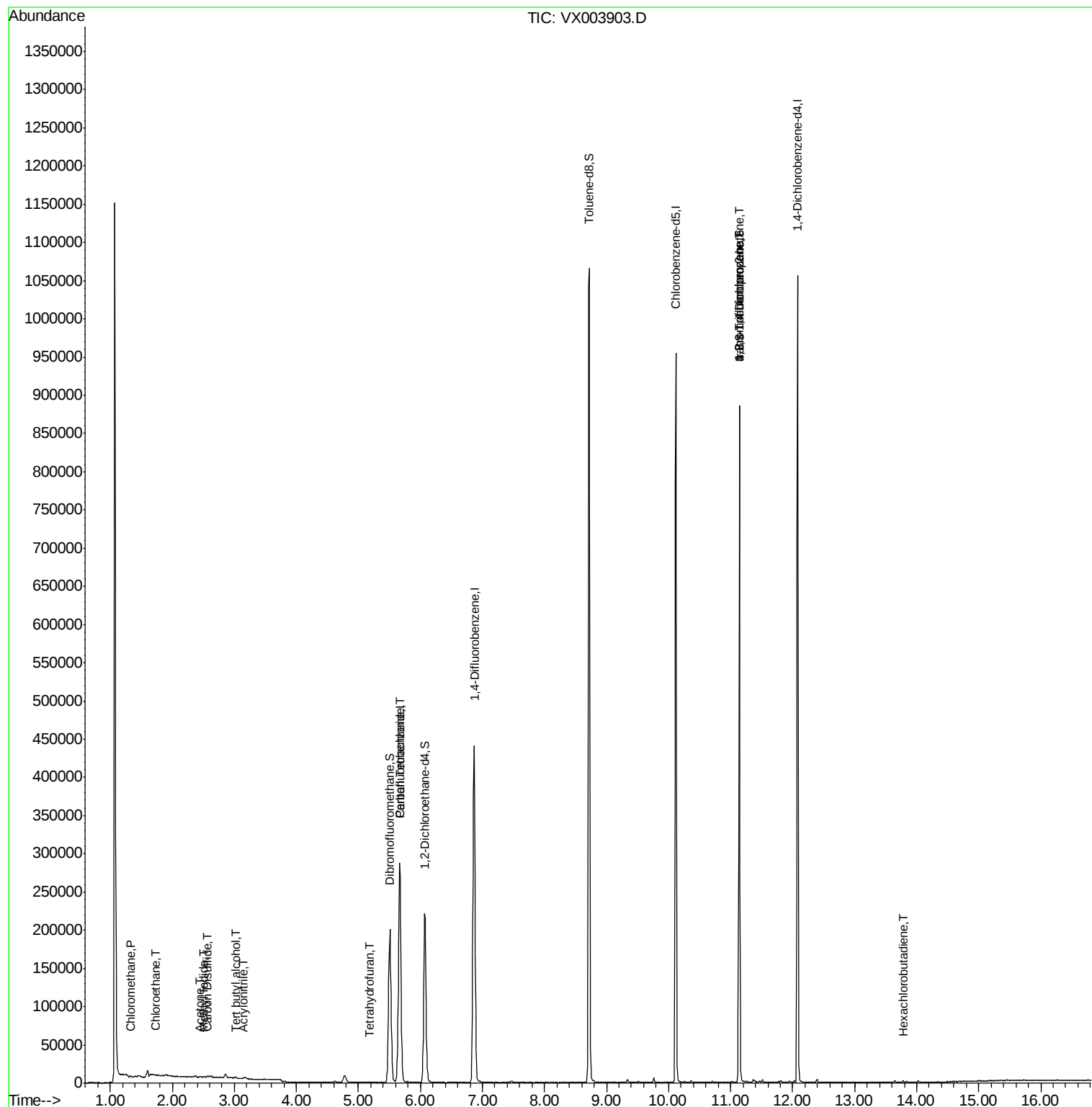
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	818	0.21	ug/l #	86
5) Bromomethane	1.65	94	1146	Below Cal		97
6) Chloroethane	1.73	64	10947	4.30	ug/l #	42
10) Methyl Iodide	2.51	142	872	0.21	ug/l #	86
11) Tert butyl alcohol	3.02	59	672	0.73	ug/l #	73
13) Acrolein	2.30	56	331	Below Cal	#	50
15) Acrylonitrile	3.15	53	653	0.30	ug/l #	51
16) Acetone	2.45	43	1090	0.48	ug/l	90
17) Carbon Disulfide	2.57	76	2496	0.72	ug/l #	91
20) Methylene Chloride	2.85	84	2067	Below Cal		88
29) Tetrahydrofuran	5.18	42	846	0.48	ug/l	92
38) Carbon Tetrachloride	5.67	117	25560	5.26	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	107231	22.12	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	107231	59.71	ug/l #	9
88) 1,4-Dichlorobenzene	12.03	146	864	Below Cal		95
94) Hexachlorobutadiene	13.79	225	417	0.60	ug/l	88

(#) = 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: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

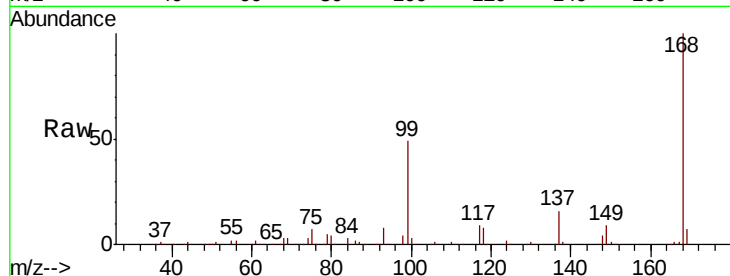
VX0807WBL03

Tot Ion:168 Resp: 289228

Ion Ratio Lower Upper

168 100

99 49.4 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

120000

100000

80000

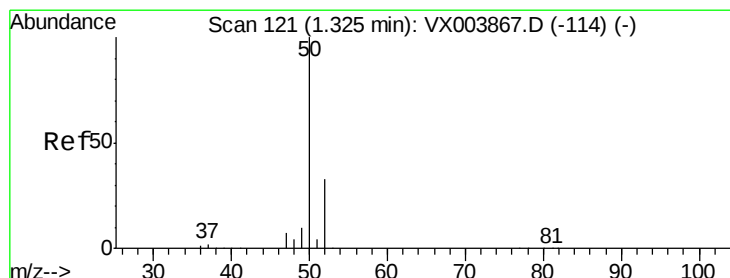
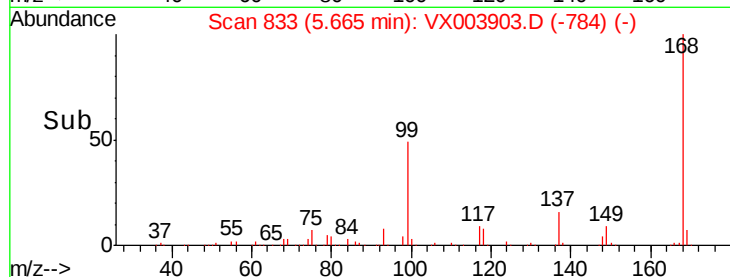
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003903.D

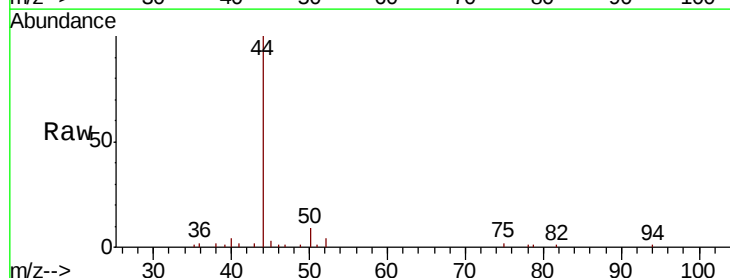
Acq: 08 Aug 2018 02:45

Tgt Ion: 50 Resp: 818

Ion Ratio Lower Upper

50 100

52 41.2 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

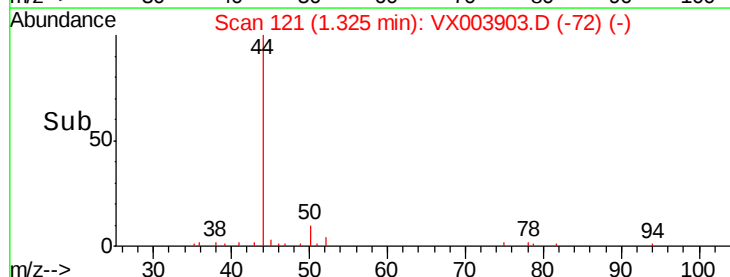
600

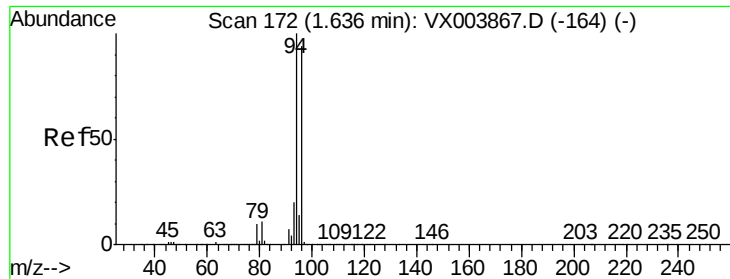
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

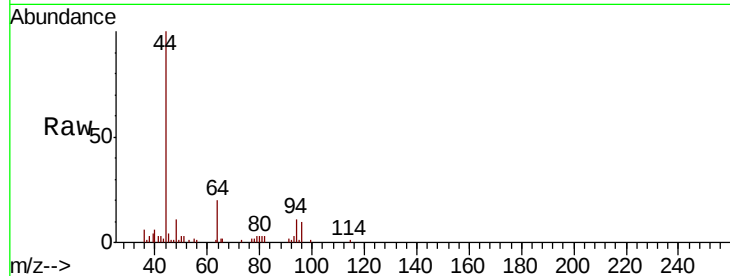
VX0807WBL03

Tot Ion: 94 Resp: 1146

Ion Ratio Lower Upper

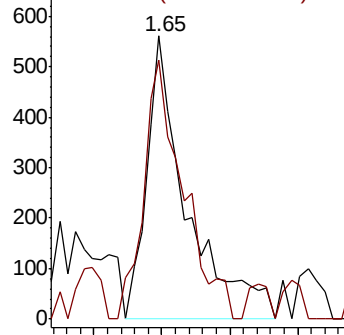
94 100

96 91.3 75.2 112.8

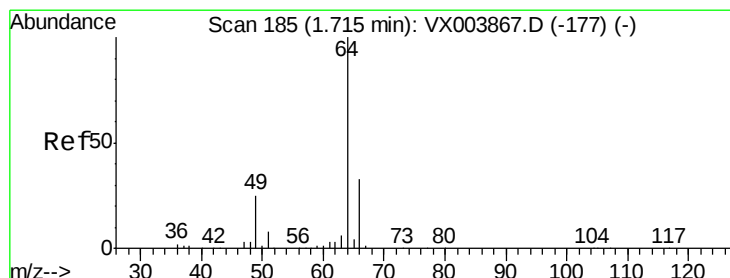
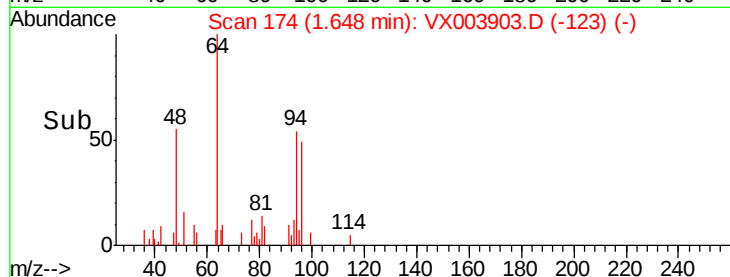


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 4.30 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003903.D

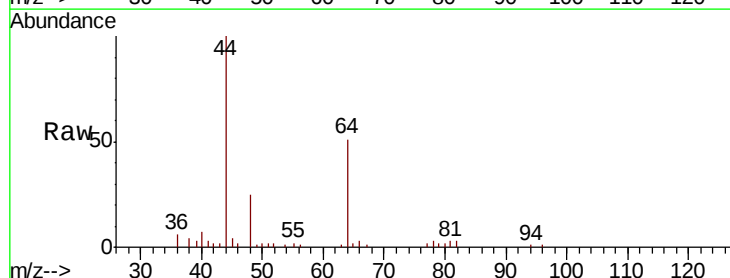
Acq: 08 Aug 2018 02:45

Tgt Ion: 64 Resp: 10947

Ion Ratio Lower Upper

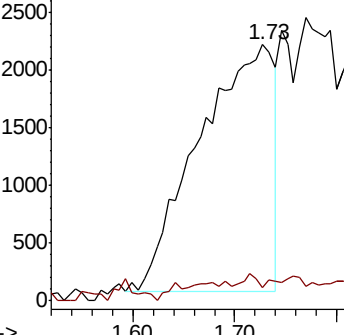
64 100

66 0.0 26.5 39.7#

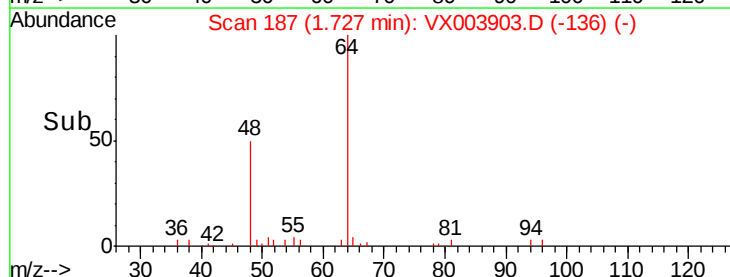


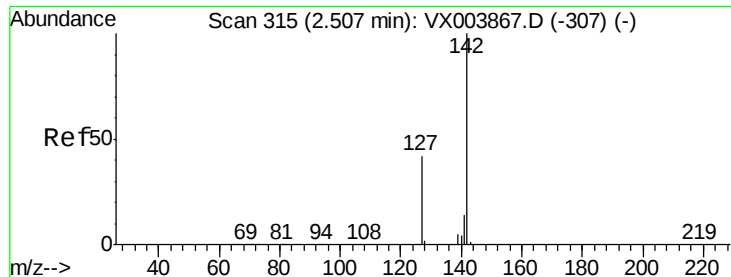
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

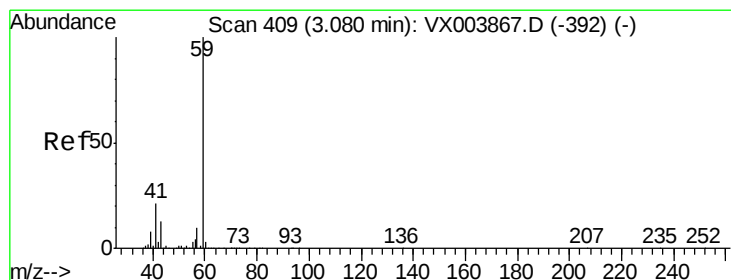
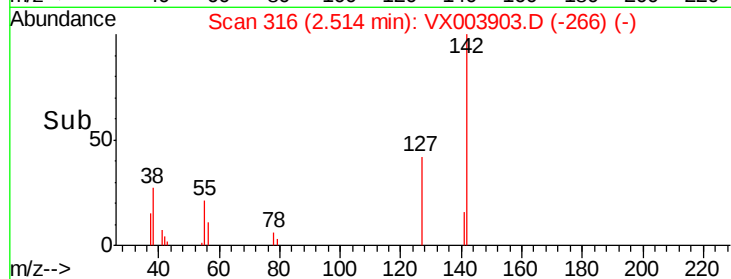
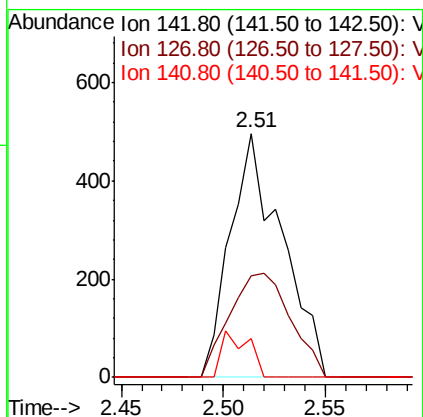
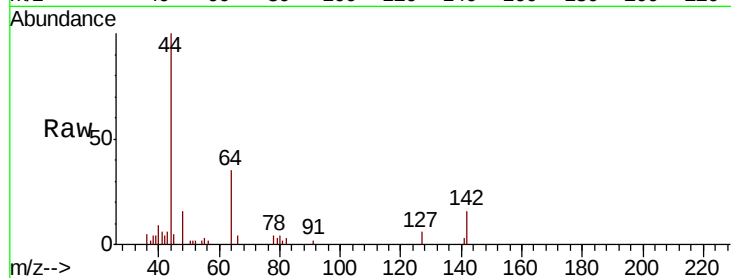




#10
Methyl Iodide
Concen: 0.21 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX003903.D
Acq: 08 Aug 2018 02:45

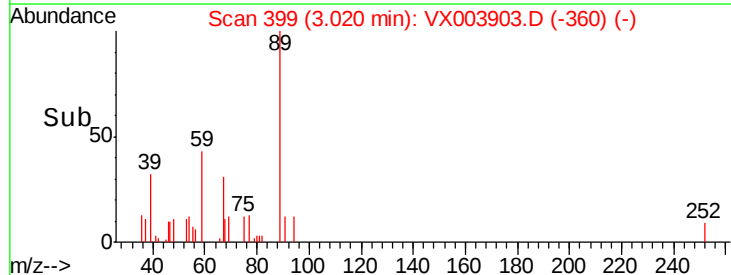
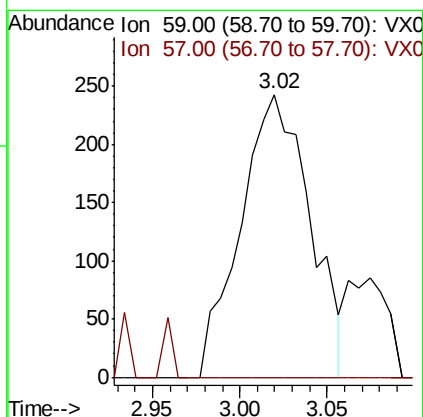
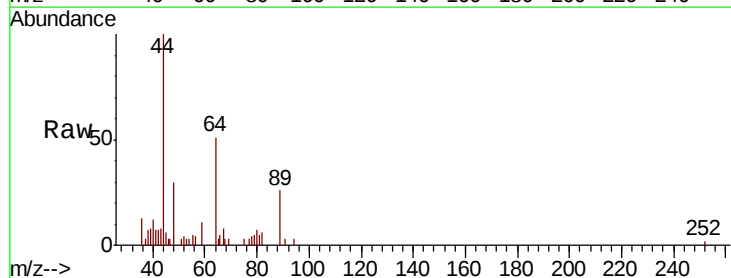
Instrument :
MSVOA_X
ClientSampleId :
VX0807WBL03

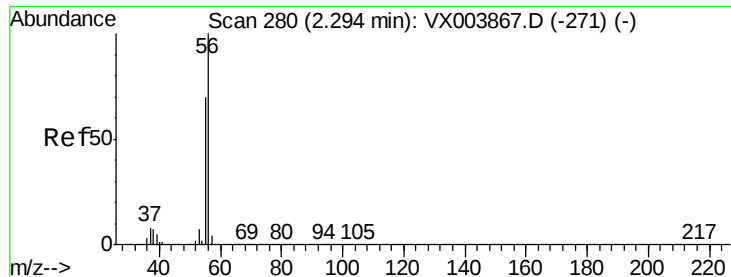
Tot Ion:142 Resp: 872
Ion Ratio Lower Upper
142 100
127 50.6 33.1 49.7#
141 9.7 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.73 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX003903.D
Acq: 08 Aug 2018 02:45

Tgt Ion: 59 Resp: 672
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

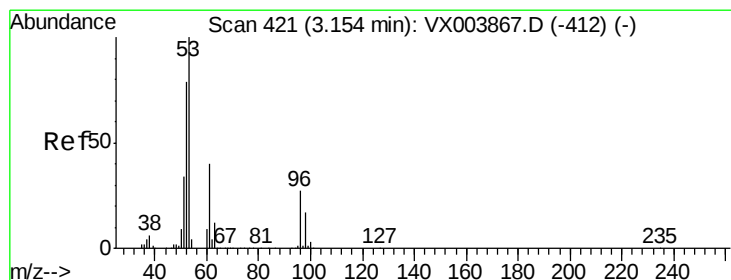
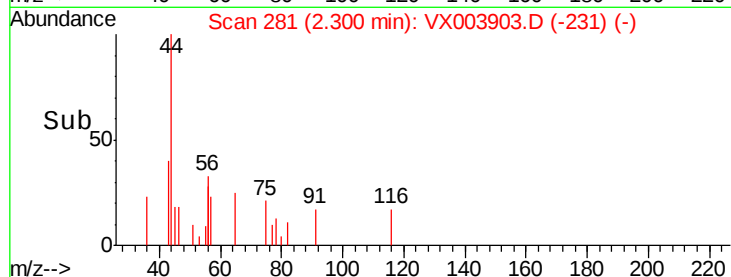
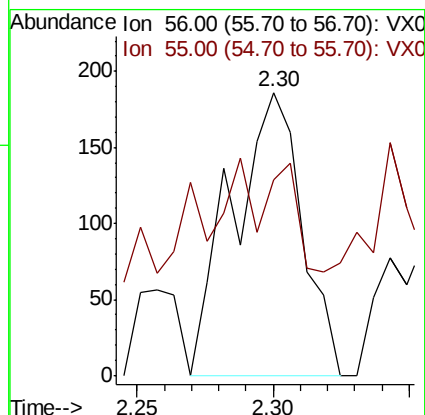
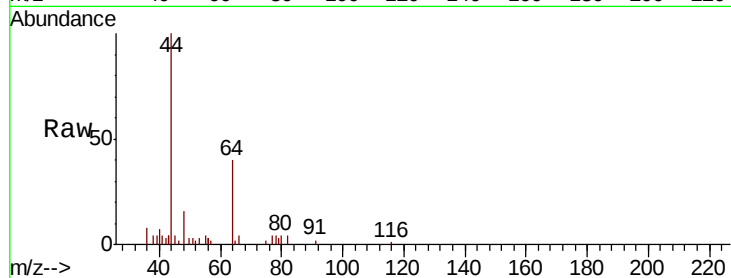
VX0807WBL03

Tot Ion: 56 Resp: 331

Ion Ratio Lower Upper

56 100

55 111.2 56.1 84.1#



#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

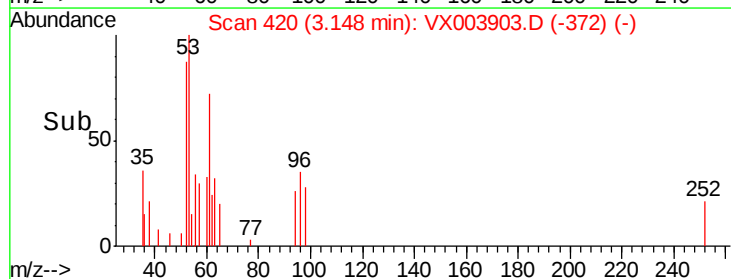
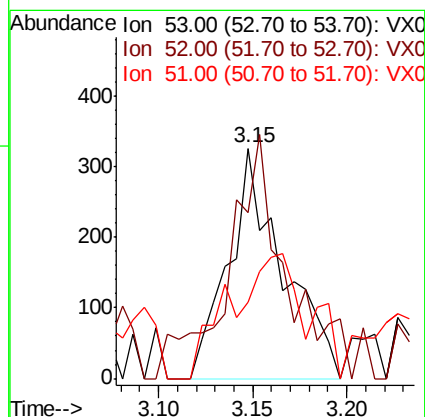
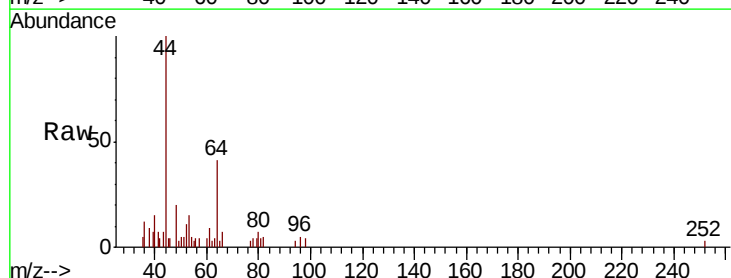
Tgt Ion: 53 Resp: 653

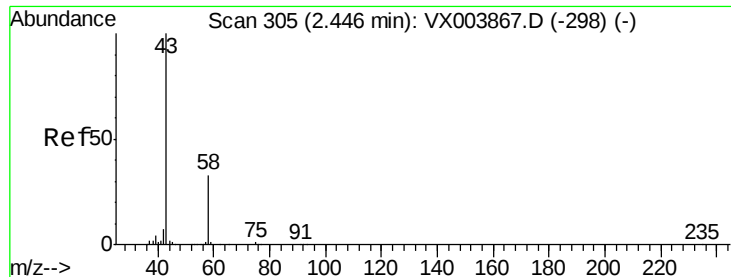
Ion Ratio Lower Upper

53 100

52 116.8 65.3 97.9#

51 76.7 27.9 41.9#





#16

Acetone

Concen: 0.48 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

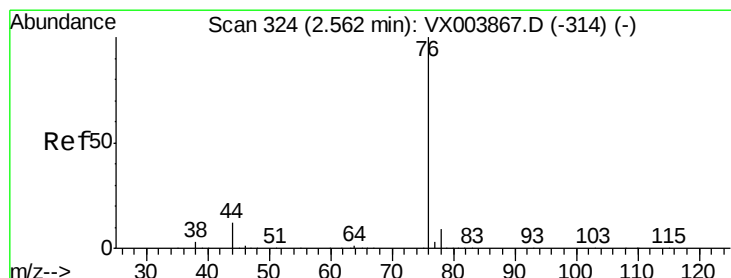
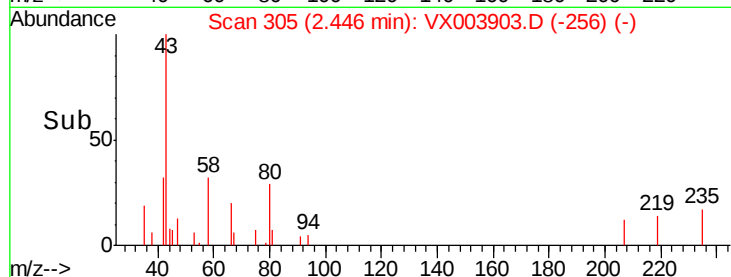
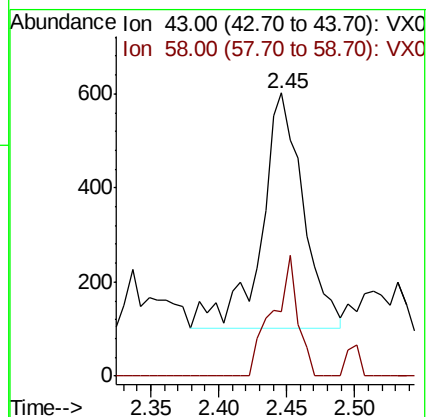
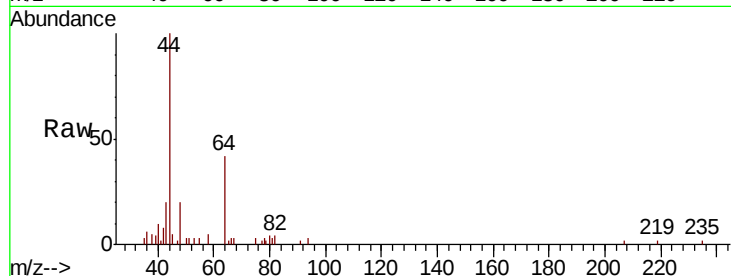
VX0807WBL03

Tot Ion: 43 Resp: 1090

Ion Ratio Lower Upper

43 100

58 27.5 26.4 39.6



#17

Carbon Disulfide

Concen: 0.72 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003903.D

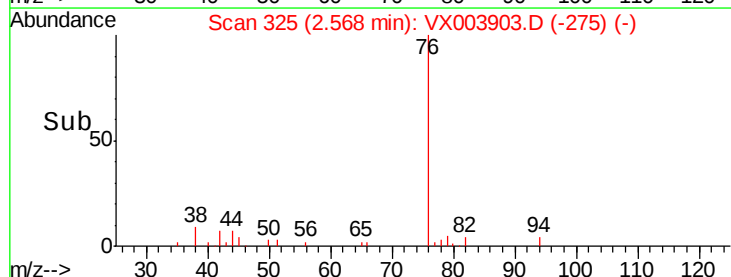
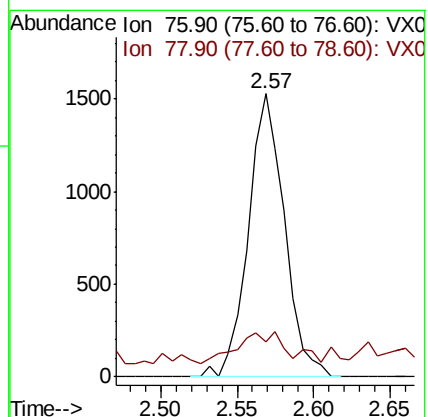
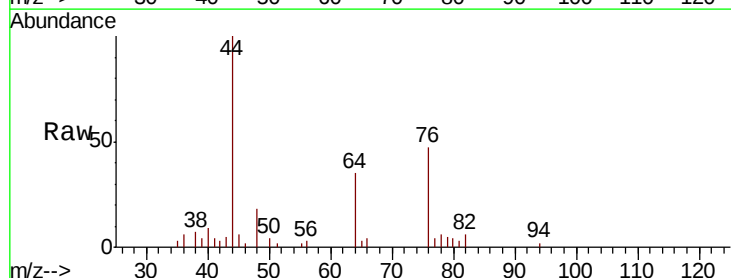
Acq: 08 Aug 2018 02:45

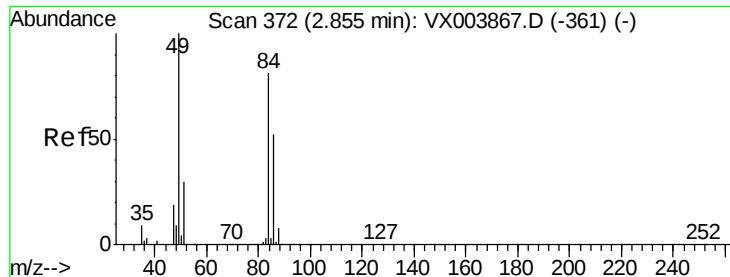
Tgt Ion: 76 Resp: 2496

Ion Ratio Lower Upper

76 100

78 6.2 7.5 11.3#

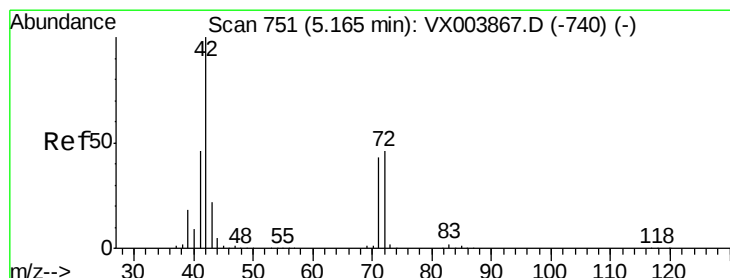
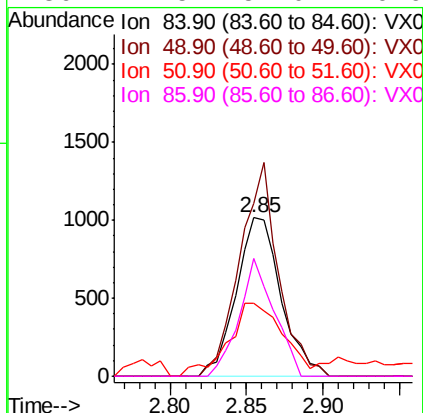
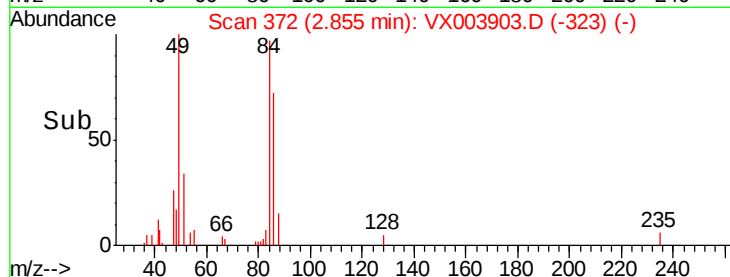
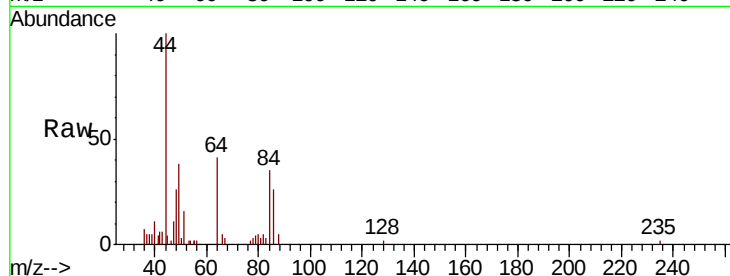




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003903.D
Acq: 08 Aug 2018 02:45

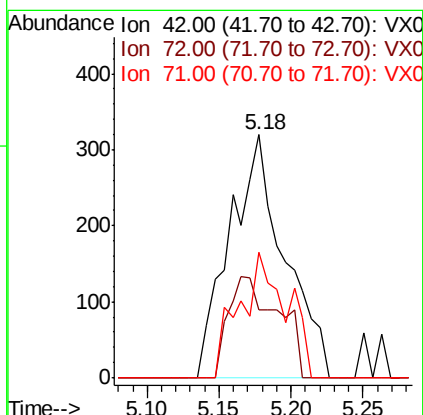
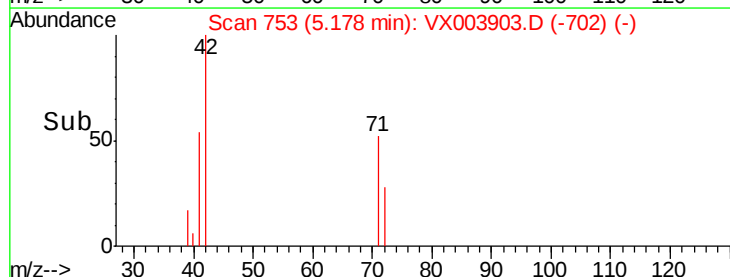
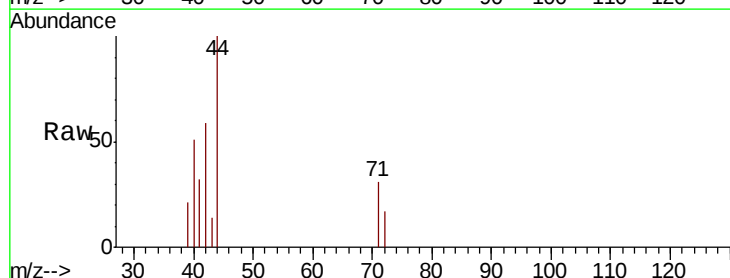
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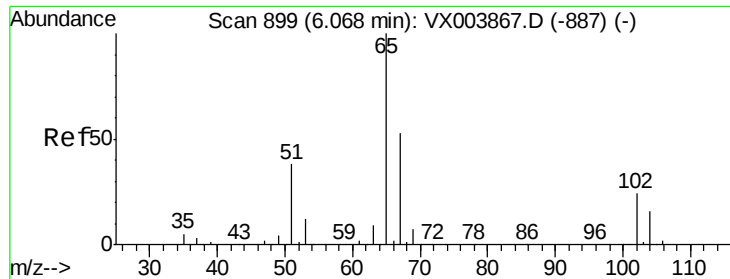
Tot Ion:	84	Resp:	2067
Ion	Ratio	Lower	Upper
84	100		
49	109.3	98.9	148.3
51	40.0	29.9	44.9
86	74.5	51.0	76.6



#29
Tetrahydrofuran
Concen: 0.48 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003903.D
Acq: 08 Aug 2018 02:45

Tgt Ion:	42	Resp:	846
Ion	Ratio	Lower	Upper
42	100		
72	37.9	37.7	56.5
71	44.6	35.0	52.6

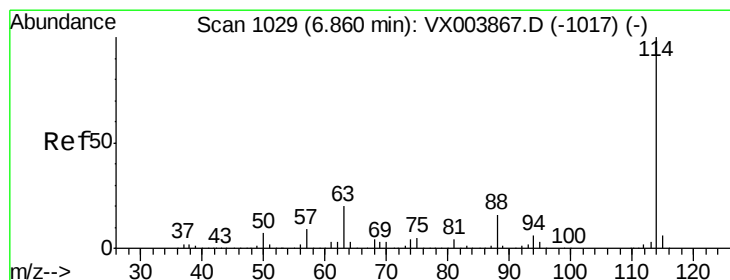
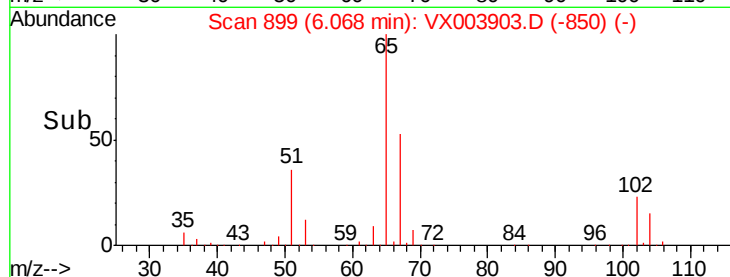
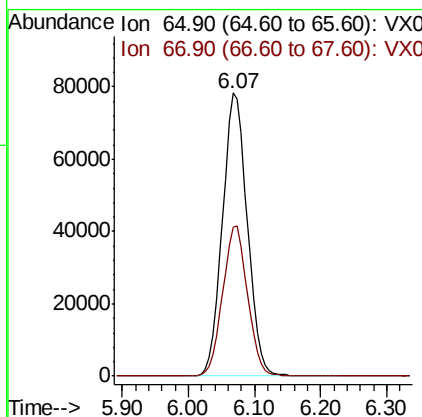
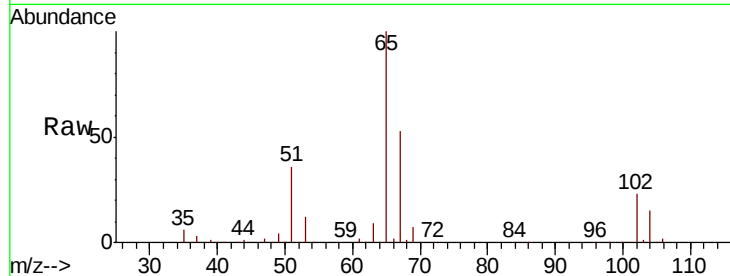




#33
 1,2-Dichloroethane-d4
 Concen: 53.19 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003903.D
 Acq: 08 Aug 2018 02:45

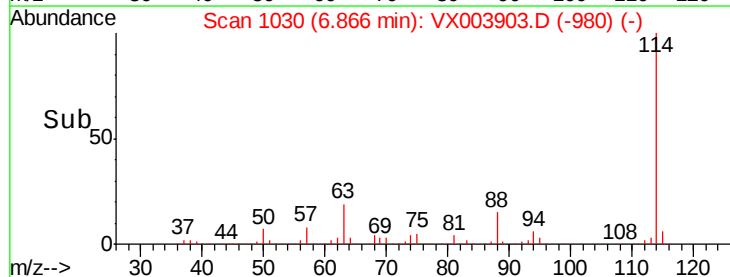
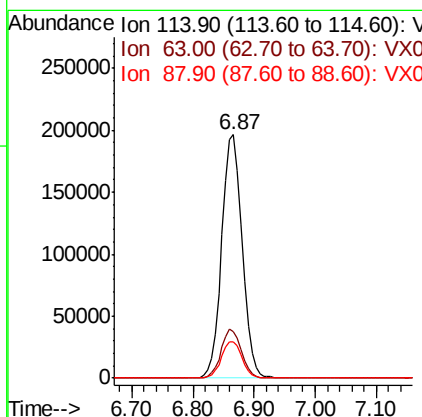
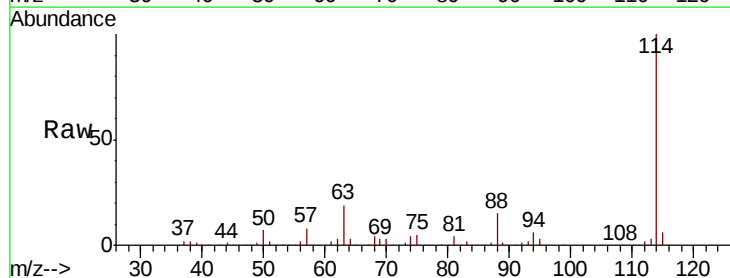
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 VX0807WBL03

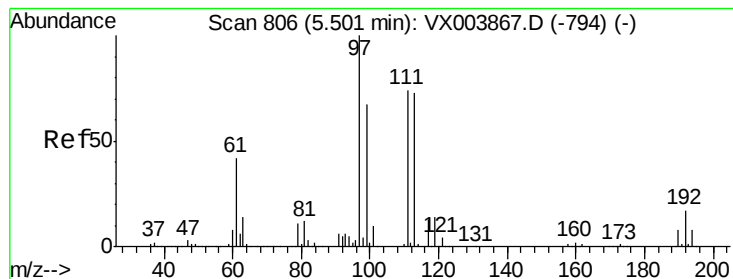
Tot Ion: 65 Resp: 203934
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003903.D
 Acq: 08 Aug 2018 02:45

Tgt Ion: 114 Resp: 455686
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.0
 88 15.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.61 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

VX0807WBL03

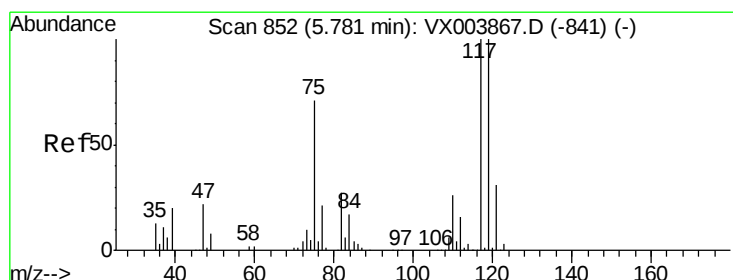
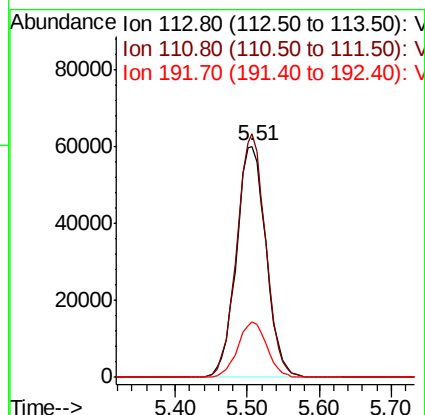
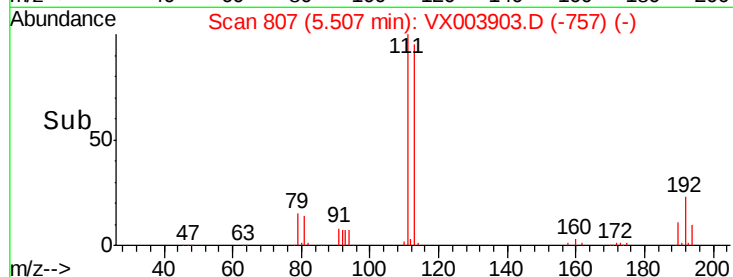
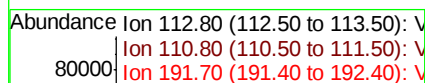
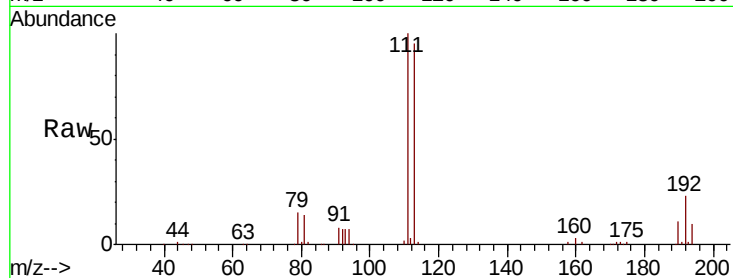
Tot Ion:113 Resp: 171268

Ion Ratio Lower Upper

113 100

111 102.8 82.0 123.0

192 23.5 19.0 28.4



#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

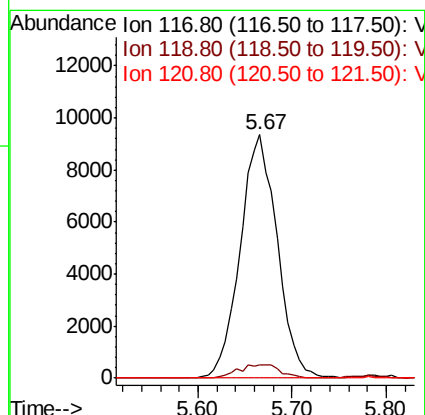
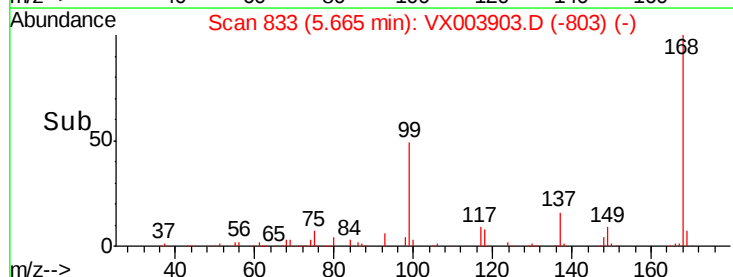
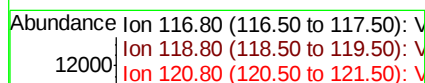
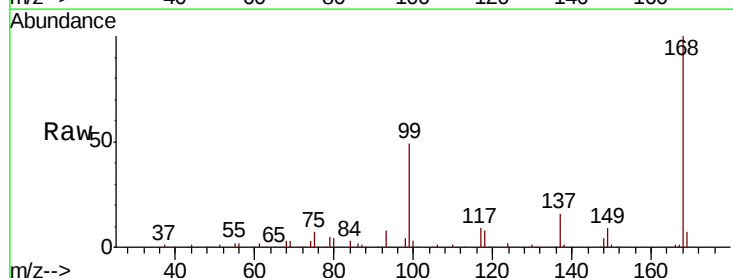
Tgt Ion:117 Resp: 25560

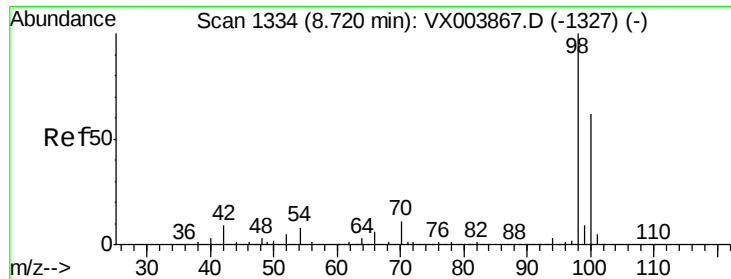
Ion Ratio Lower Upper

117 100

119 5.5 79.5 119.3#

121 0.0 25.0 37.4#





#50

Toluene-d8

Concen: 47.92 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

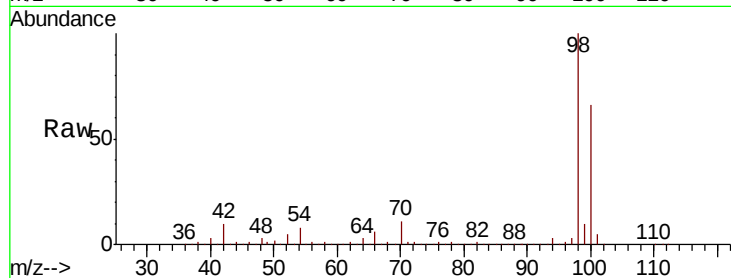
VX0807WBL03

Tot Ion: 98 Resp: 643289

Ion Ratio Lower Upper

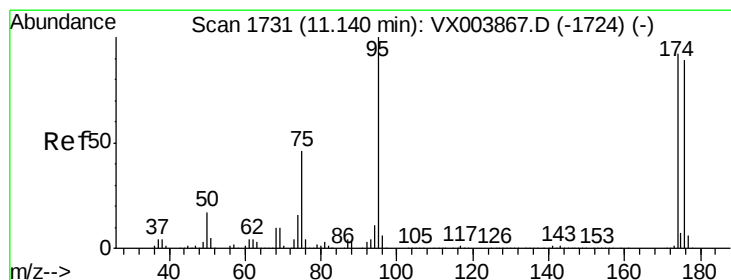
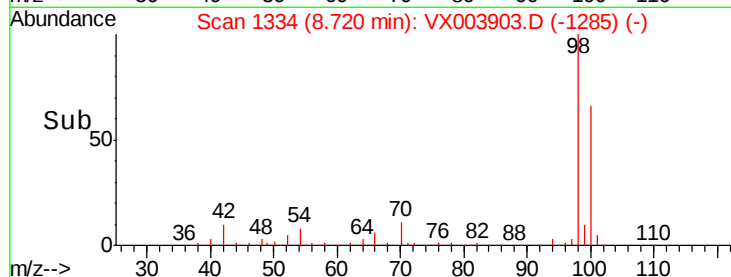
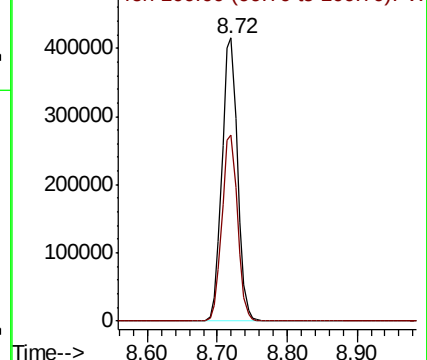
98 100

100 65.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 50.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

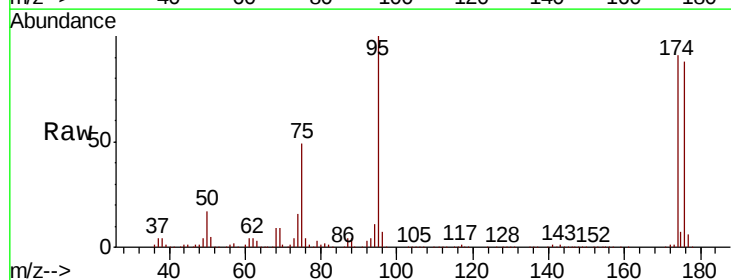
Tgt Ion: 95 Resp: 219464

Ion Ratio Lower Upper

95 100

174 91.4 0.0 182.8

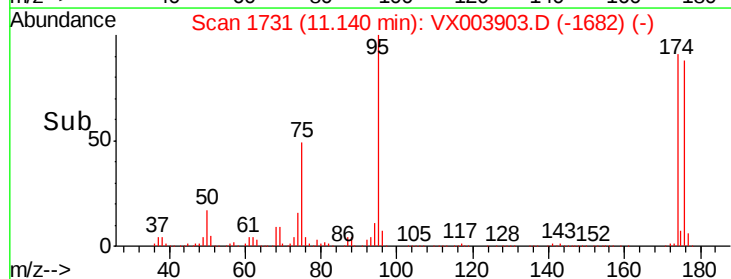
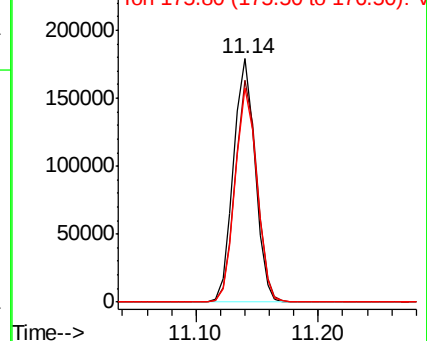
176 88.1 0.0 179.0

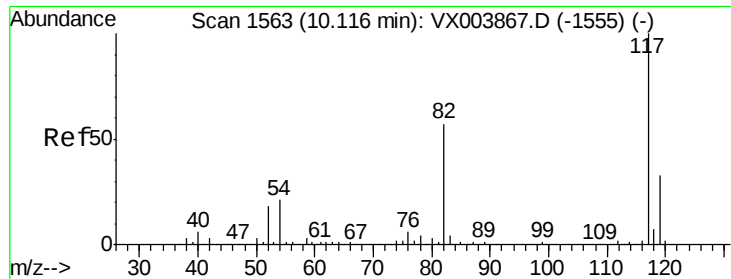


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

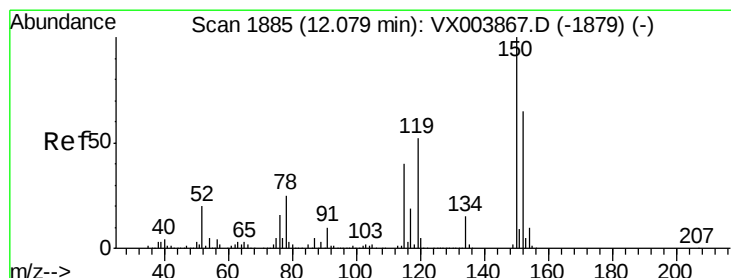
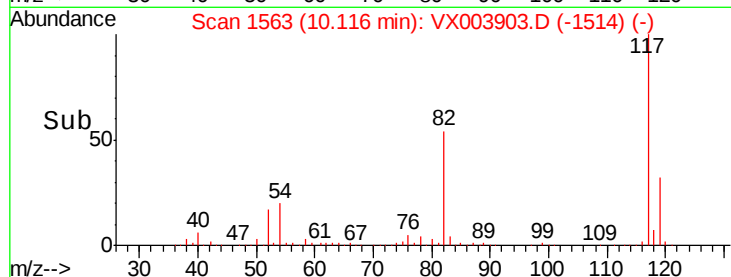
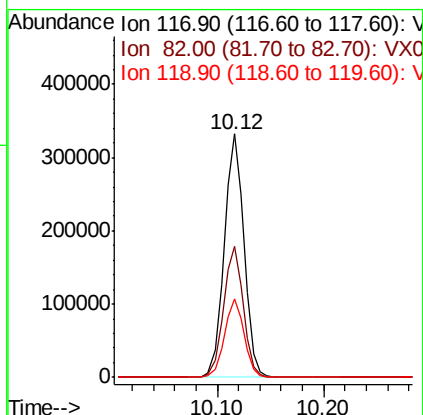
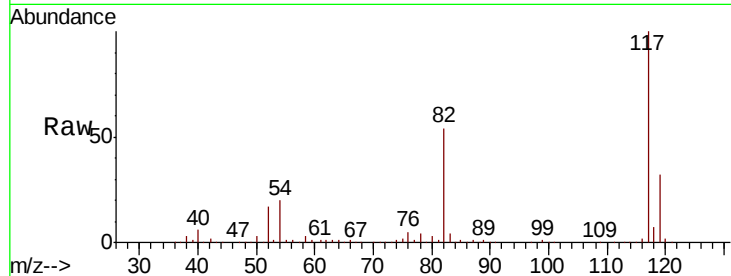




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003903.D
Acq: 08 Aug 2018 02:45

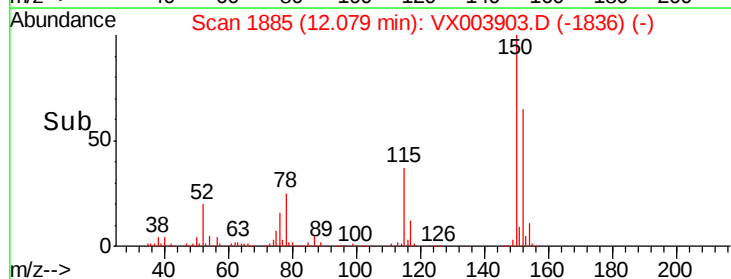
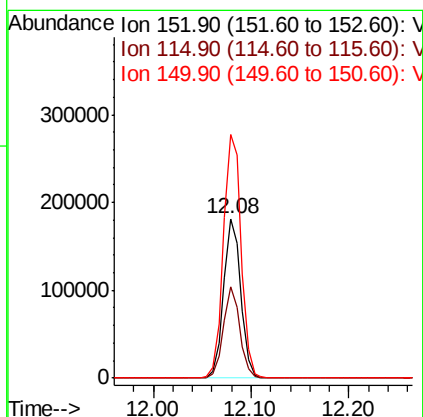
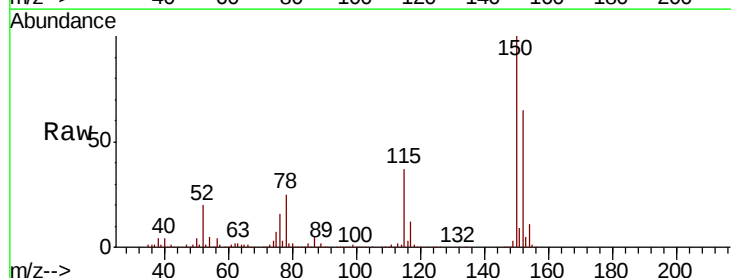
Instrument :
MSVOA_X
ClientSampleId :
VX0807WBL03

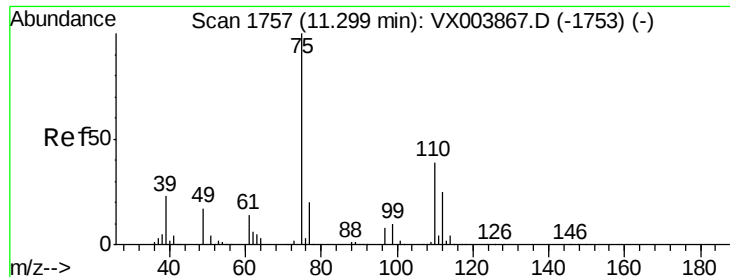
Tot Ion:117 Resp: 430167
Ion Ratio Lower Upper
117 100
82 53.7 45.4 68.0
119 32.1 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003903.D
Acq: 08 Aug 2018 02:45

Tgt Ion:152 Resp: 219511
Ion Ratio Lower Upper
152 100
115 55.2 39.1 117.3
150 158.7 0.0 349.2

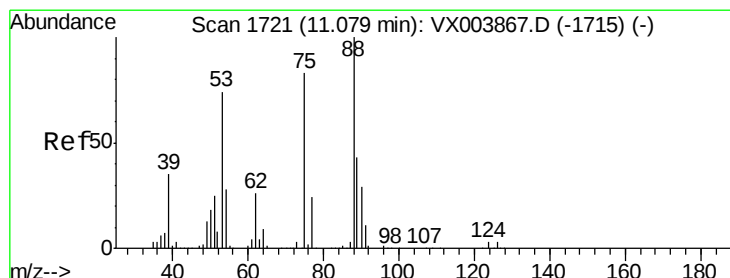
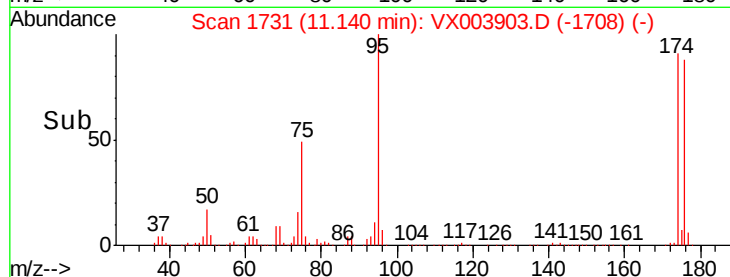
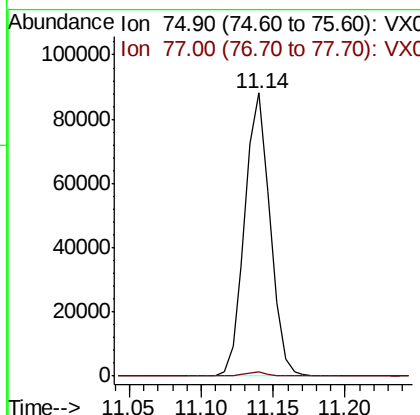
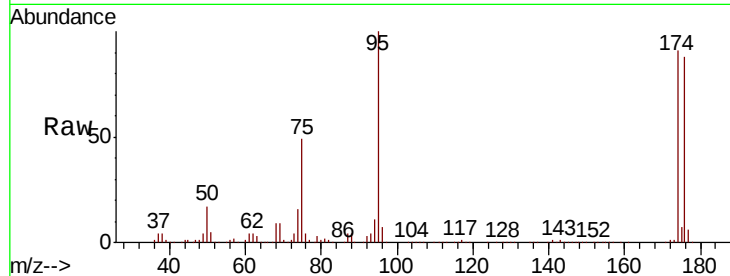




#76
 1,2,3-Trichloropropane
 Concen: 22.12 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003903.D
 Acq: 08 Aug 2018 02:45

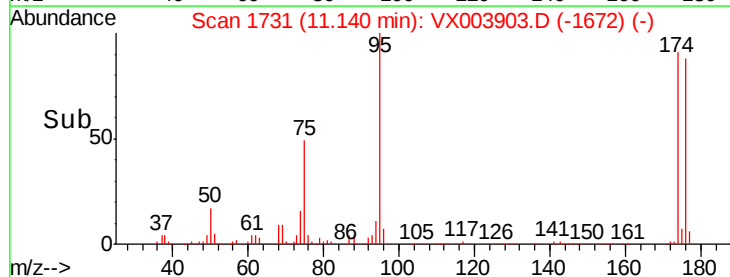
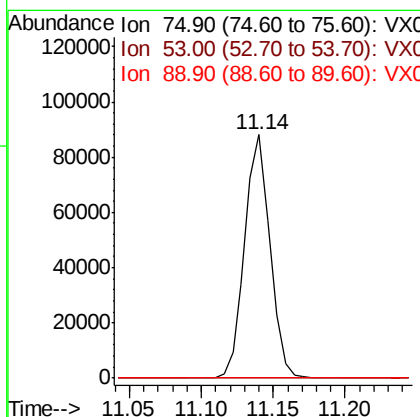
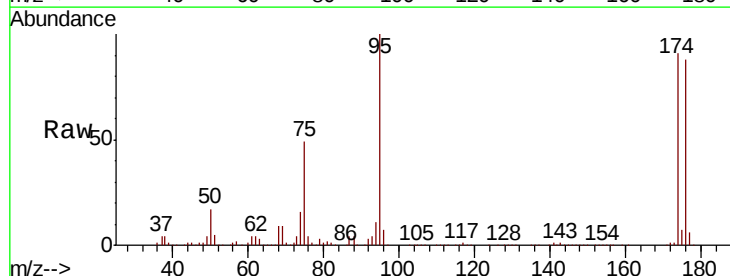
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0807WBL03

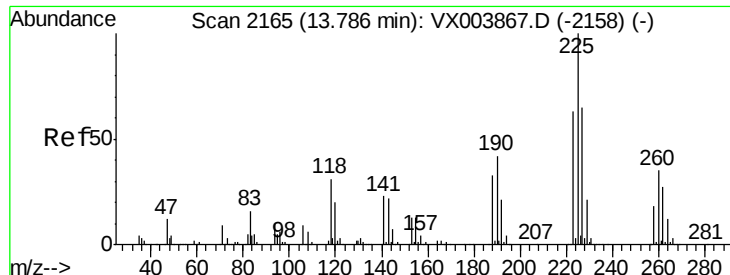
Tot Ion: 75 Resp: 107231
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.71 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003903.D
 Acq: 08 Aug 2018 02:45

Tgt Ion: 75 Resp: 107231
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.3 120.5#
 89 0.1 37.8 56.8#





#94

Hexachlorobutadiene

Concen: 0.60 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003903.D

Acq: 08 Aug 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

VX0807WBL03

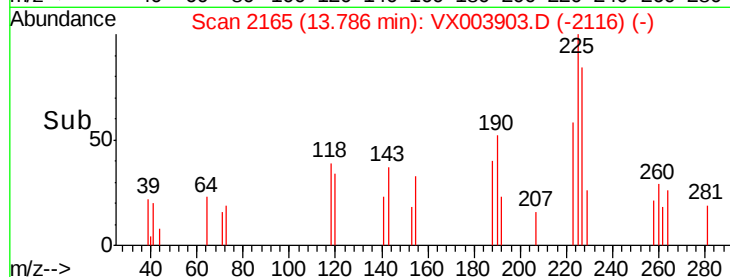
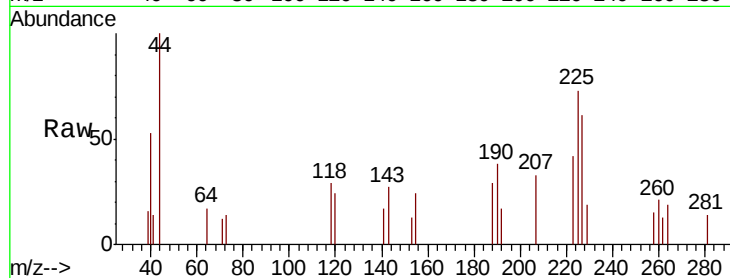
Tot Ion:225 Resp: 417

Ion Ratio Lower Upper

225 100

223 73.1 31.4 94.0

227 72.9 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

