

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003263.D
 Acq On : 10 Jul 2018 00:04
 Operator : JC/MD
 Sample : PB110911TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911TB

Quant Time: Jul 10 01:06:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	330076	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175797	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	153862	40.53	ug/l	0.00
Spiked Amount			Recovery	=	81.06%	
35) Dibromofluoromethane	5.51	113	128138	36.13	ug/l	0.00
Spiked Amount			Recovery	=	72.26%	
50) Toluene-d8	8.72	98	457214	36.30	ug/l	0.00
Spiked Amount			Recovery	=	72.60%	
62) 4-Bromofluorobenzene	11.14	95	163158	35.06	ug/l	0.00
Spiked Amount			Recovery	=	70.12%	

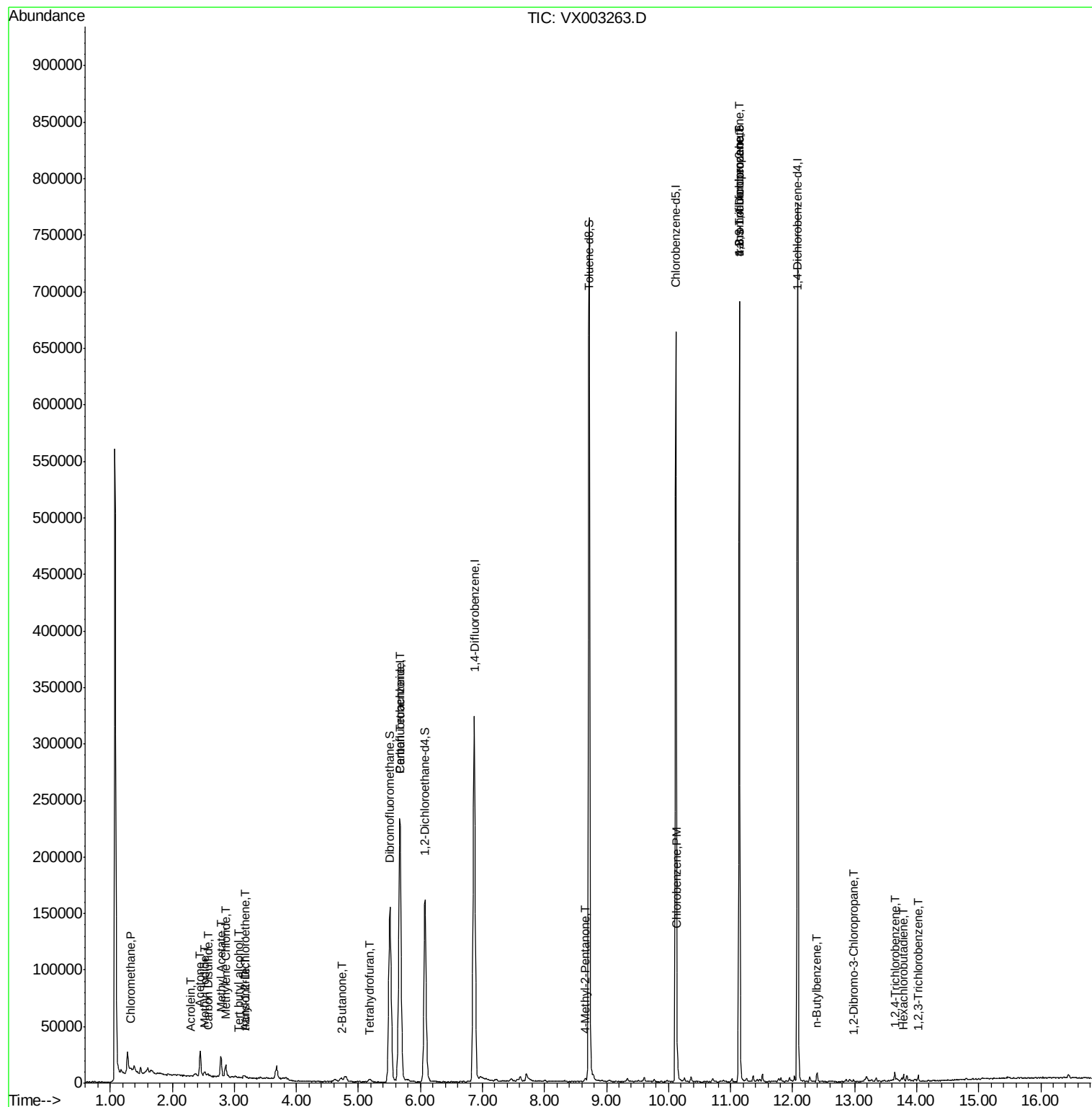
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1017	0.31	ug/l	97
5) Bromomethane	1.65	94	2825	Below Cal		82
10) Methyl Iodide	2.52	142	4832	6.95	ug/l	97
11) Tert butyl alcohol	3.08	59	814	1.18	ug/l #	90
13) Acrolein	2.29	56	548	0.99	ug/l #	50
15) Acrylonitrile	3.17	53	798	0.52	ug/l #	23
16) Acetone	2.45	43	24474	18.16	ug/l	98
17) Carbon Disulfide	2.57	76	3117	0.41	ug/l #	92
18) Methyl Acetate	2.78	43	21653	5.70	ug/l	95
20) Methylene Chloride	2.86	84	5318	1.24	ug/l	90
21) trans-1,2-Dichloroethene	3.16	96	798	0.28	ug/l #	68
25) 2-Butanone	4.73	43	5648	2.37	ug/l #	87
29) Tetrahydrofuran	5.19	42	2263	1.46	ug/l	92
38) Carbon Tetrachloride	5.67	117	21127	4.13	ug/l #	17
51) 4-Methyl-2-Pentanone	8.65	43	1882	0.38	ug/l #	86
65) Chlorobenzene	10.14	112	2736	0.26	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	78659	20.70	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	78659	67.67	ug/l #	7
89) n-Butylbenzene	12.39	91	2347	0.23	ug/l	88
92) 1,2-Dibromo-3-Chloropropan	12.98	75	276	0.30	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	1620	0.30	ug/l	95
94) Hexachlorobutadiene	13.79	225	790	0.30	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1225	0.23	ug/l	89

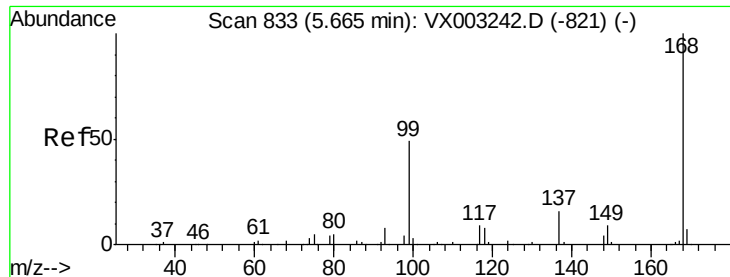
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070918\
Data File : VX003263.D
Acq On : 10 Jul 2018 00:04
Operator : JC/MD
Sample : PB110911TB
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB110911TB

Quant Time: Jul 10 01:06:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 09 15:24:16 2018
Response via : Initial Calibration

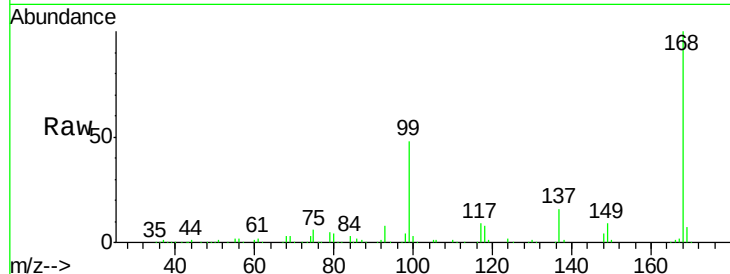




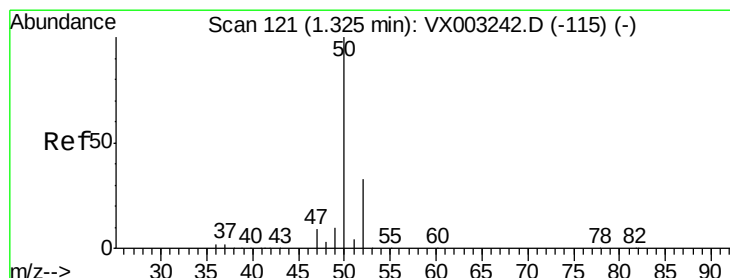
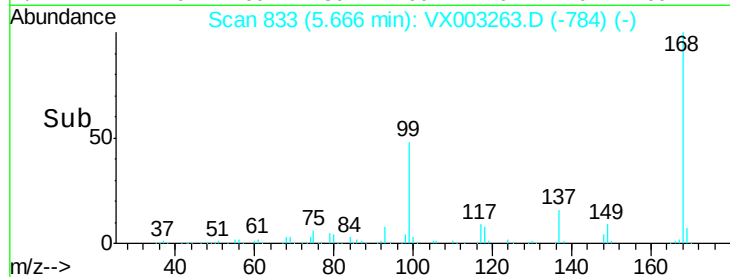
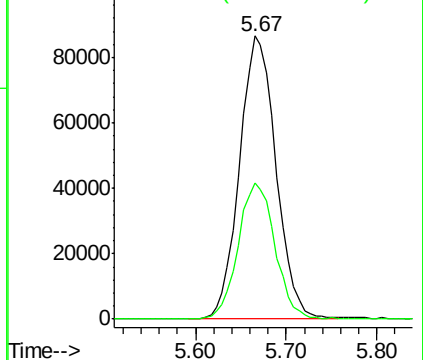
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

Instrument :
MSVOA_X
ClientSampleId :
PB110911TB

Tot Ion:168 Resp: 241217
Ion Ratio Lower Upper
168 100
99 47.9 39.3 58.9

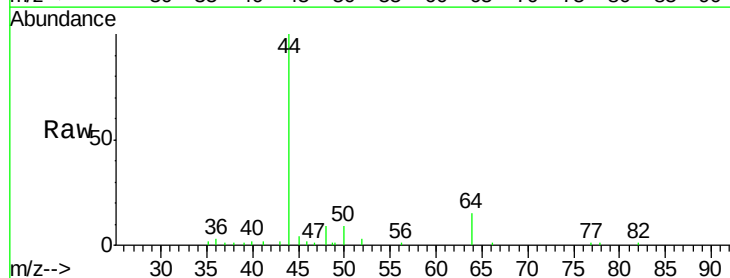


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0

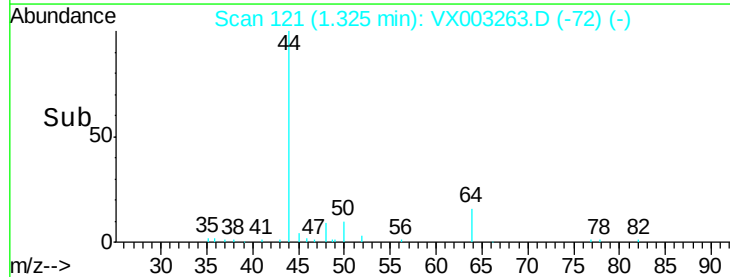
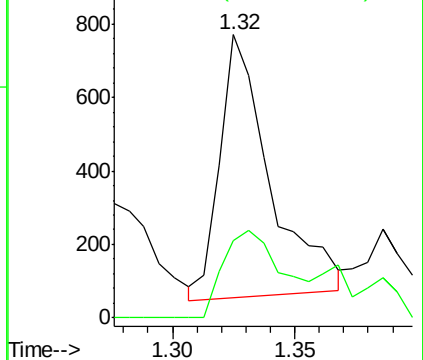


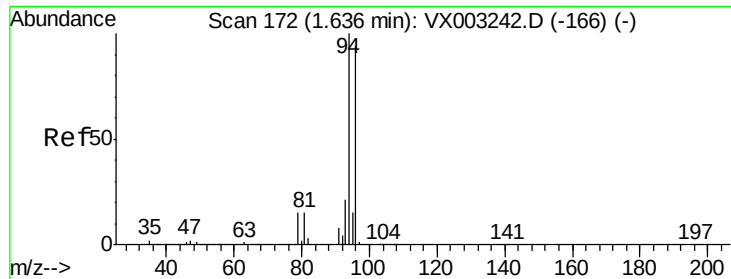
#3
Chloromethane
Concen: 0.31 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

Tgt Ion: 50 Resp: 1017
Ion Ratio Lower Upper
50 100
52 30.5 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0
Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampled :

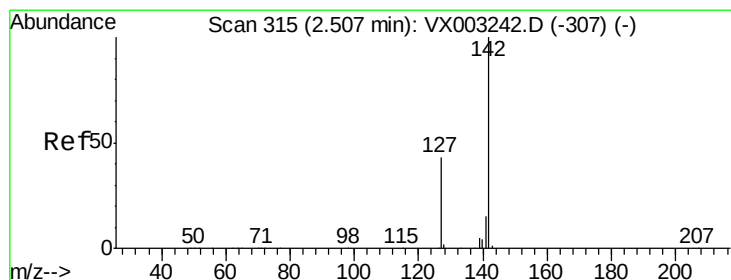
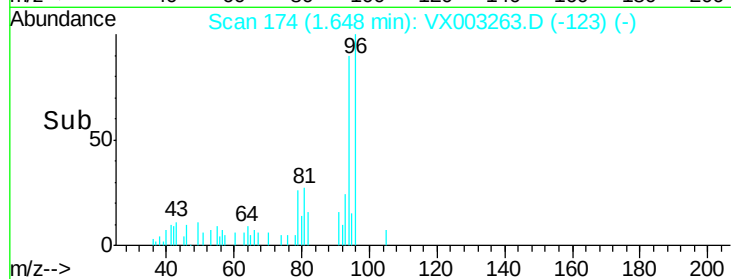
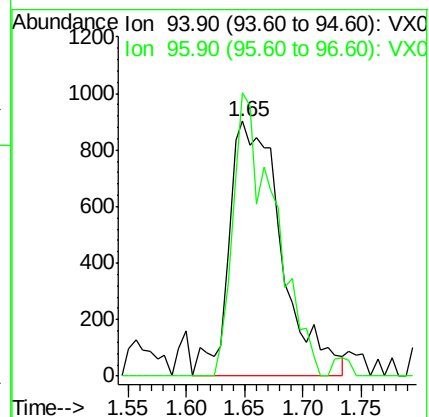
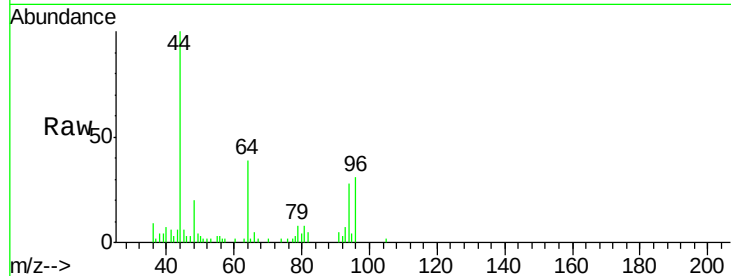
PB110911TB

Tot Ion: 94 Resp: 2825

Ion Ratio Lower Upper

94 100

96 111.0 74.9 112.3



#10

Methyl Iodide

Concen: 6.95 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

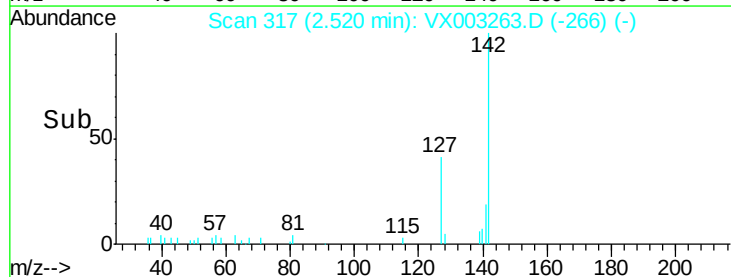
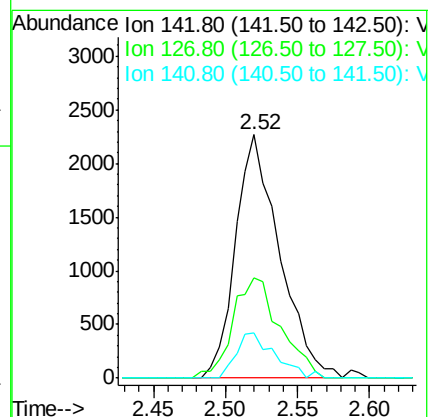
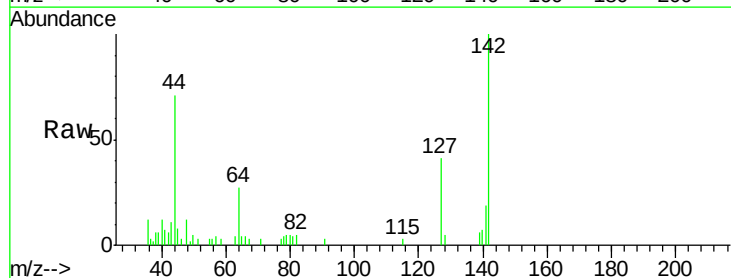
Tgt Ion: 142 Resp: 4832

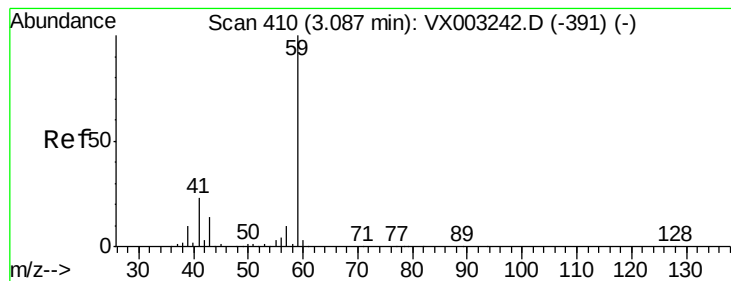
Ion Ratio Lower Upper

142 100

127 44.4 36.6 55.0

141 16.4 11.3 16.9





#11

Tert butyl alcohol

Concen: 1.18 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

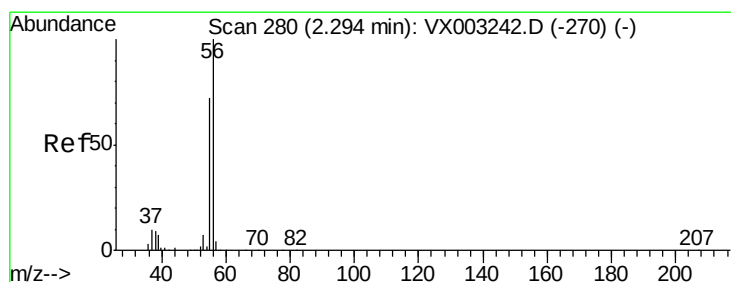
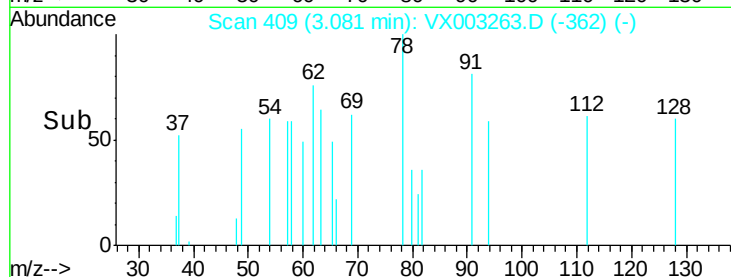
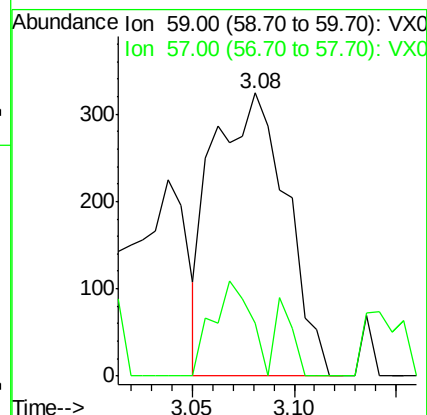
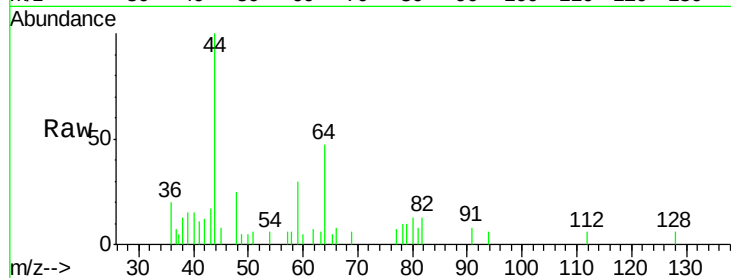
PB110911TB

Tot Ion: 59 Resp: 814

Ion Ratio Lower Upper

59 100

57 6.5 8.2 12.2#



#13

Acrolein

Concen: 0.99 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003263.D

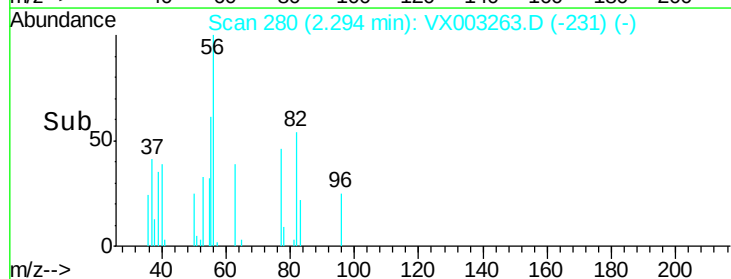
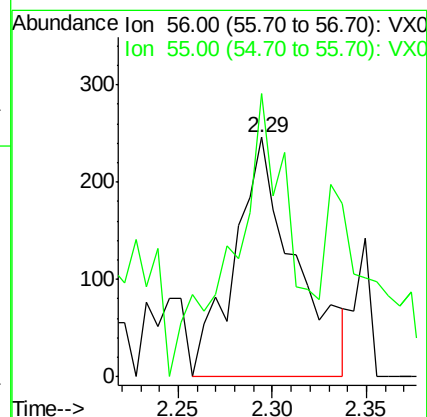
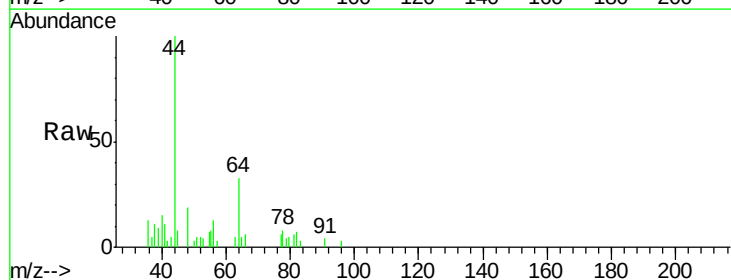
Acq: 10 Jul 2018 00:04

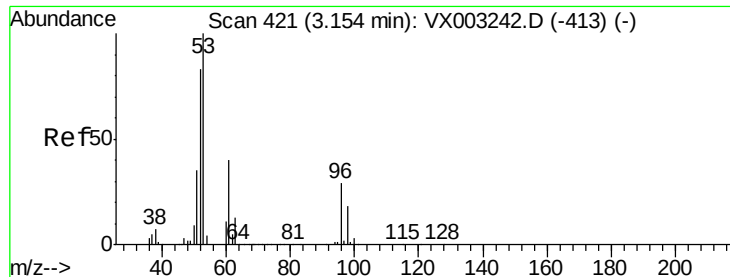
Tgt Ion: 56 Resp: 548

Ion Ratio Lower Upper

56 100

55 112.4 57.0 85.4#





#15

Acrylonitrile

Concen: 0.52 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampled :

PB110911TB

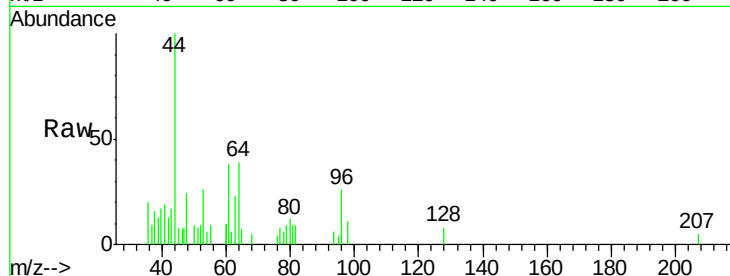
Tot Ion: 53 Resp: 798

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

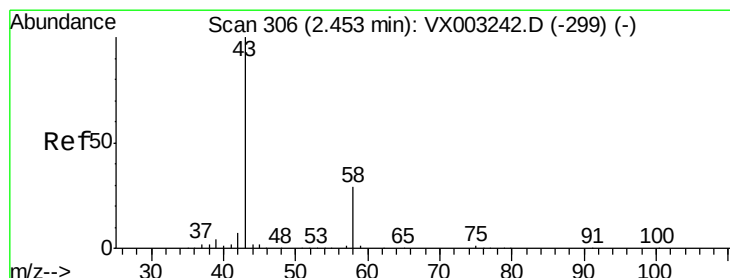
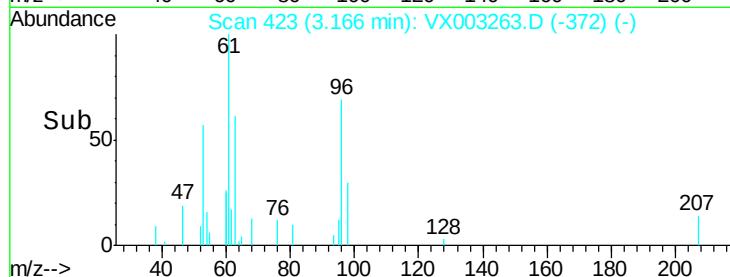
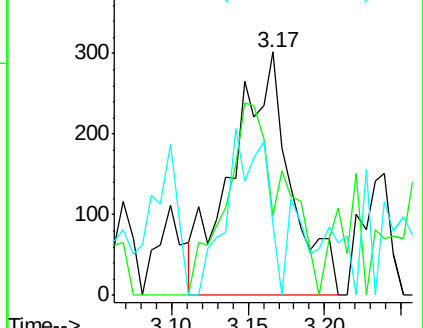
51 11.9 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 18.16 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003263.D

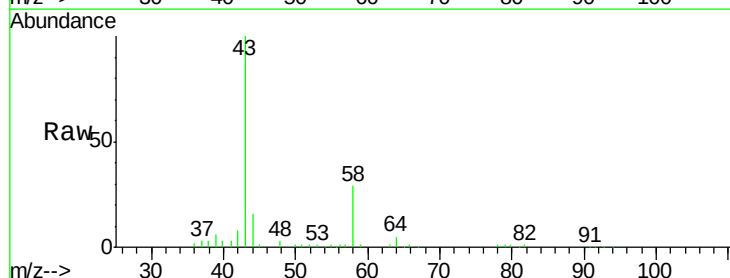
Acq: 10 Jul 2018 00:04

Tgt Ion: 43 Resp: 24474

Ion Ratio Lower Upper

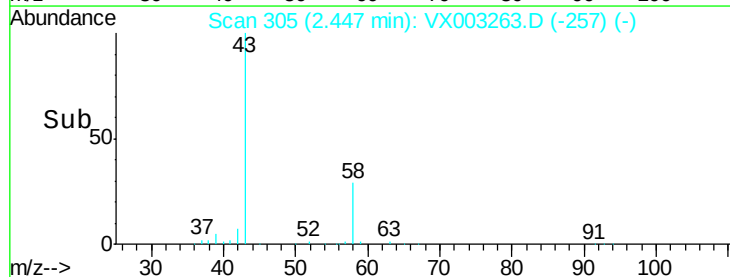
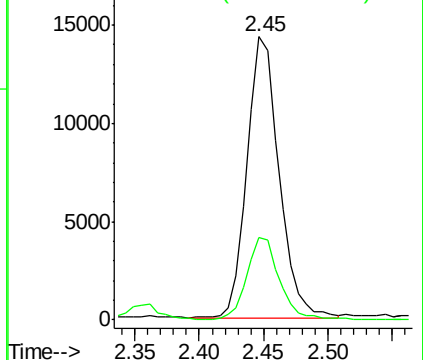
43 100

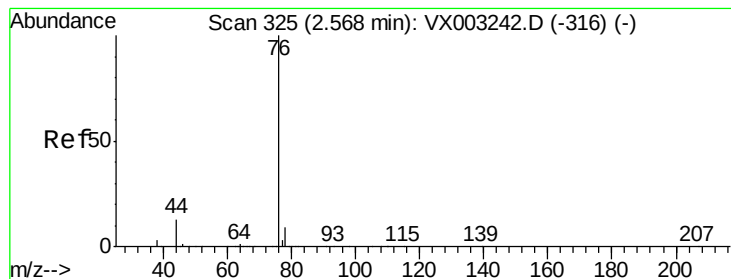
58 28.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.41 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

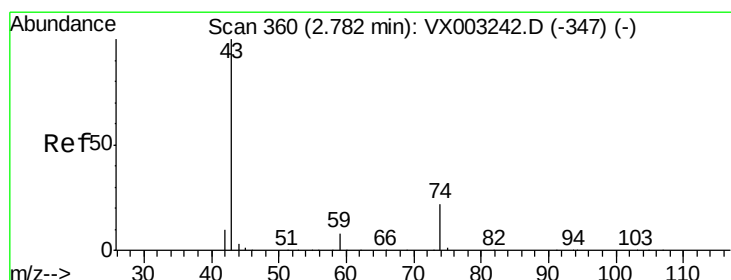
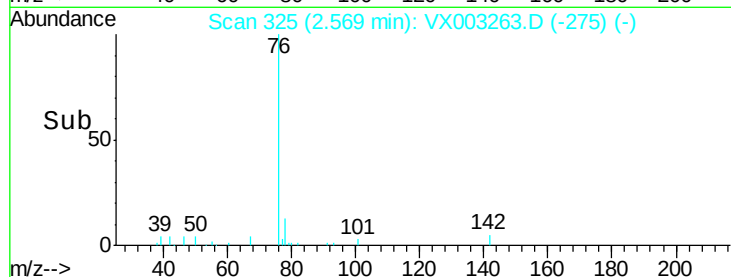
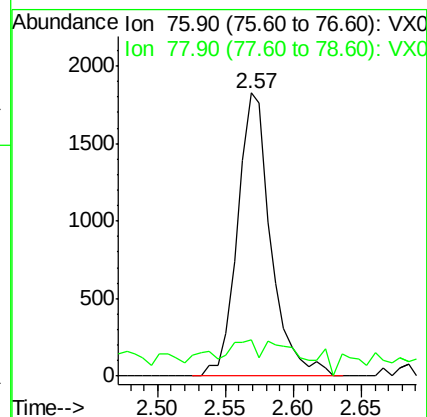
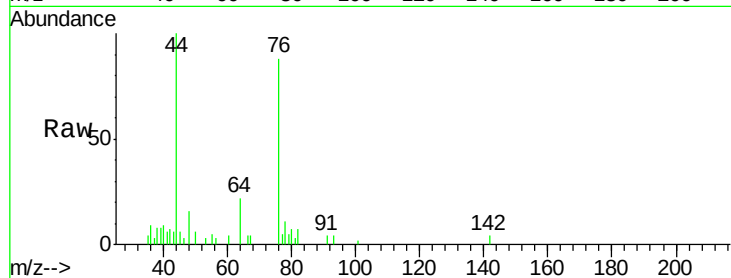
PB110911TB

Tot Ion: 76 Resp: 3117

Ion Ratio Lower Upper

76 100

78 5.6 6.9 10.3#



#18

Methyl Acetate

Concen: 5.70 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003263.D

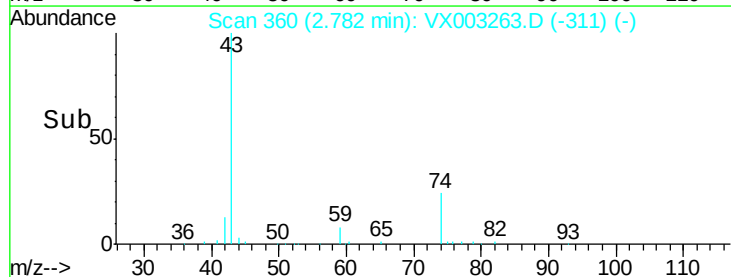
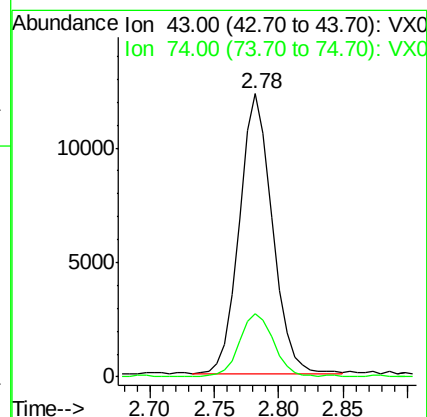
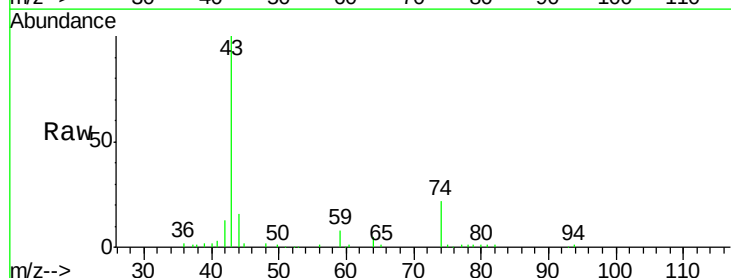
Acq: 10 Jul 2018 00:04

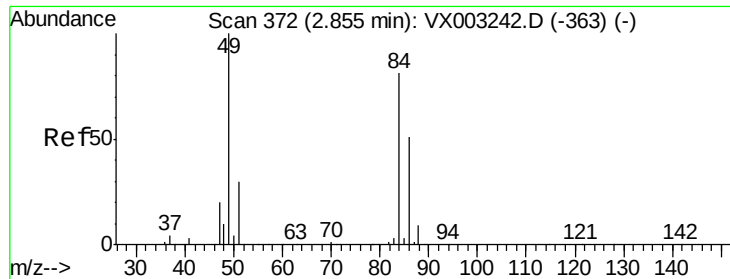
Tgt Ion: 43 Resp: 21653

Ion Ratio Lower Upper

43 100

74 23.4 16.7 25.1

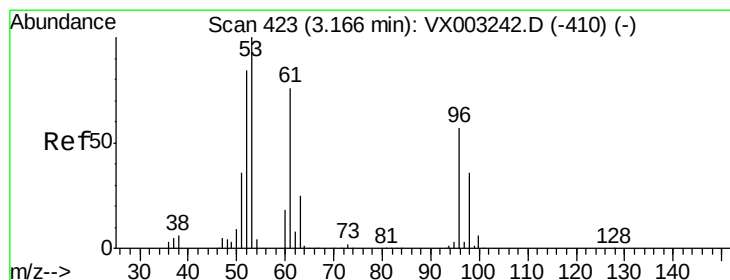
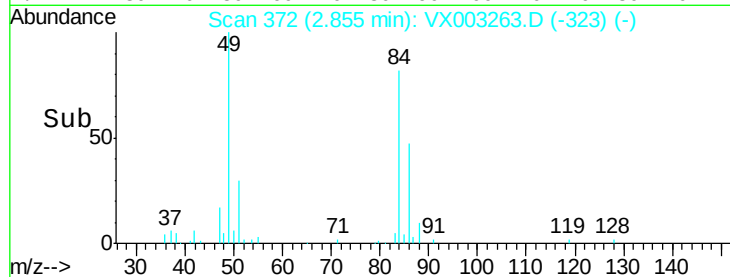
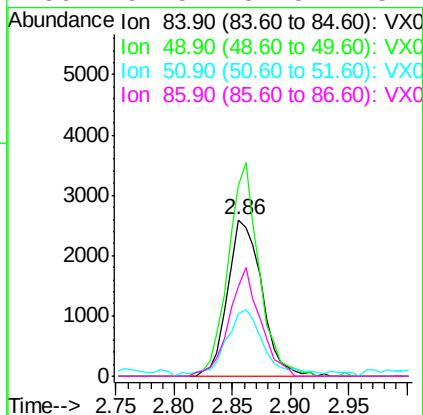
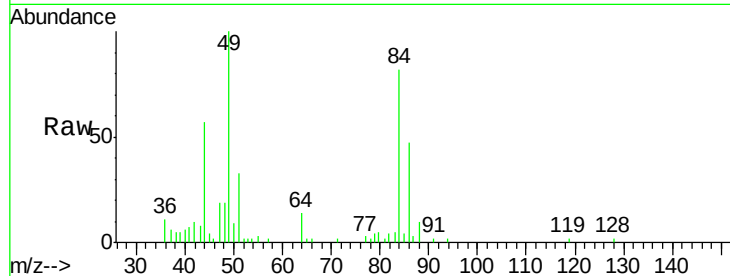




#20
Methylene Chloride
Concen: 1.24 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

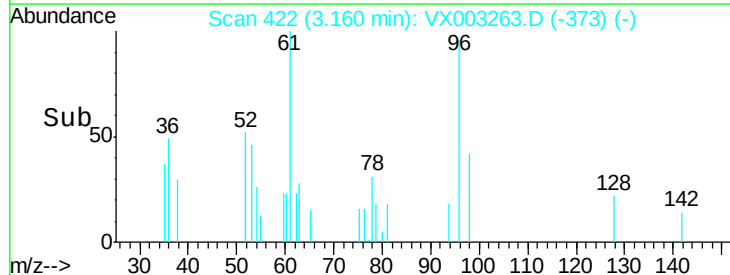
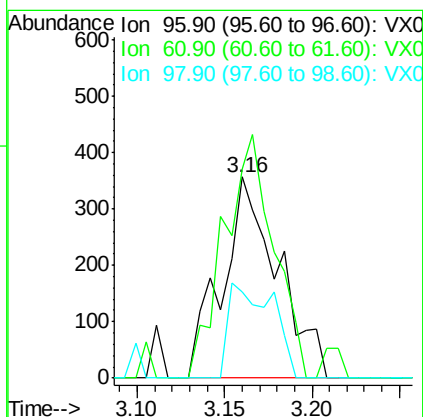
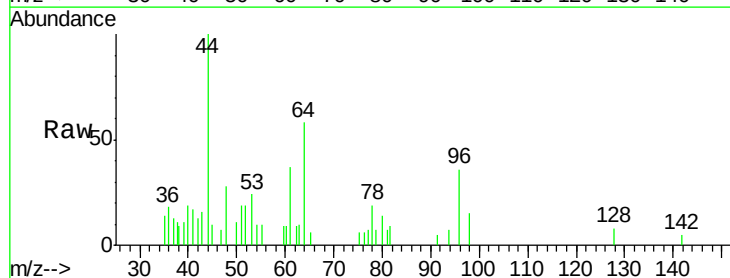
Instrument :
MSVOA_X
ClientSampled :
PB110911TB

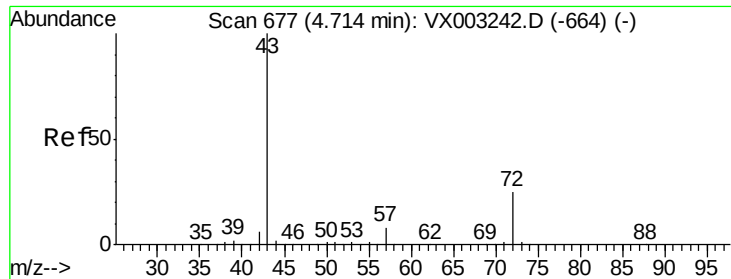
Tot Ion: 84 Resp: 5318
Ion Ratio Lower Upper
84 100
49 121.6 107.8 161.6
51 38.2 32.8 49.2
86 57.5 52.5 78.7



#21
trans-1,2-Dichloroethene
Concen: 0.28 ug/l
RT: 3.16 min Scan# 422
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

Tgt Ion: 96 Resp: 798
Ion Ratio Lower Upper
96 100
61 103.9 117.0 175.4#
98 43.1 52.4 78.6#





#25

2-Butanone

Concen: 2.37 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

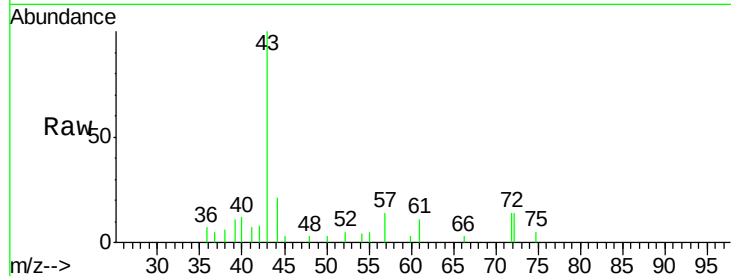
PB110911TB

Tot Ion: 43 Resp: 5648

Ion Ratio Lower Upper

43 100

72 29.2 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

2000

1500

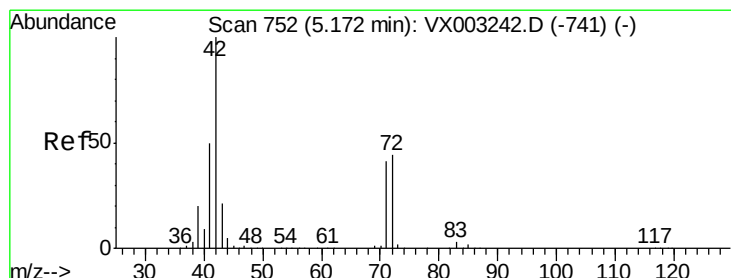
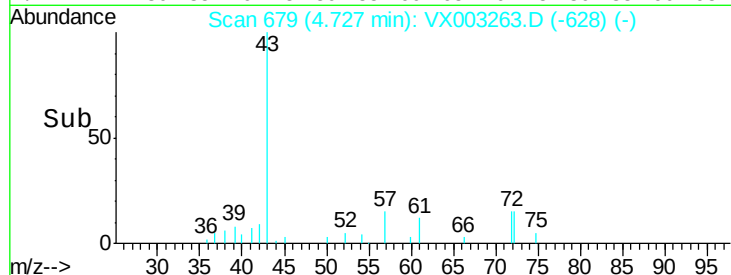
1000

500

0

4.60 4.70 4.80

Time-->



#29

Tetrahydrofuran

Concen: 1.46 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

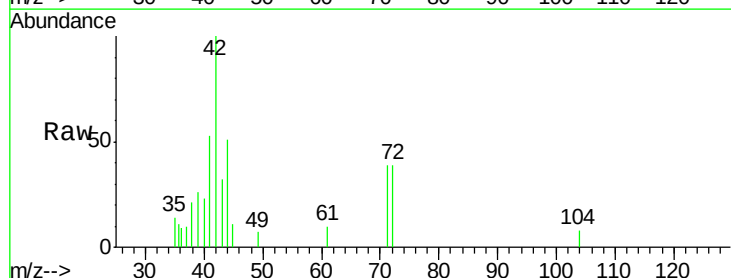
Tgt Ion: 42 Resp: 2263

Ion Ratio Lower Upper

42 100

72 37.2 32.0 48.0

71 44.2 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

800

600

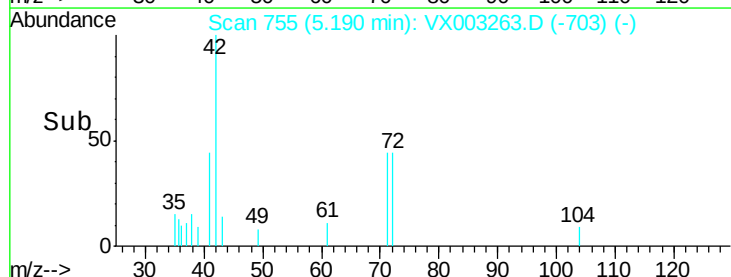
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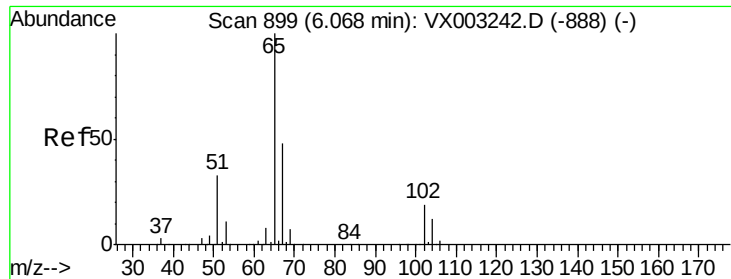
200

0

5.05 5.10 5.15 5.20 5.25

Time-->





#33

1,2-Dichloroethane-d4

Concen: 40.53 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

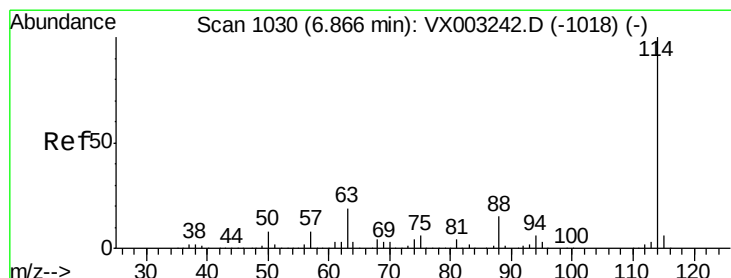
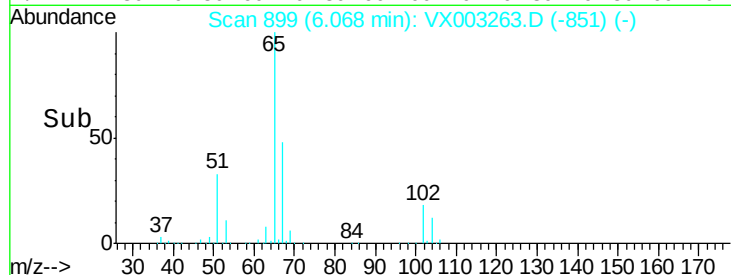
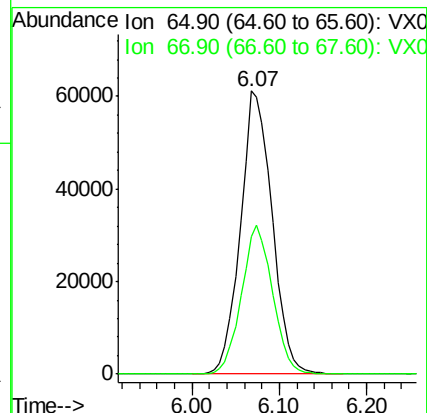
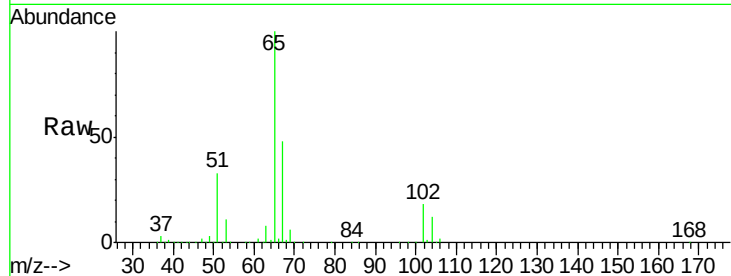
PB110911TB

Tot Ion: 65 Resp: 153862

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

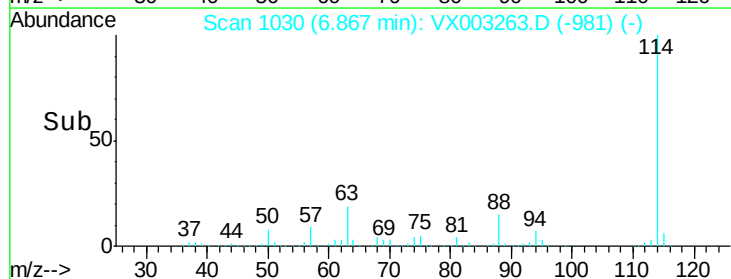
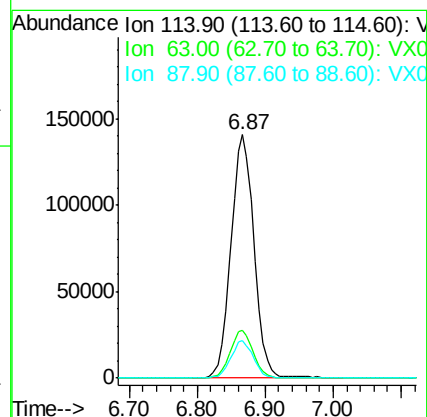
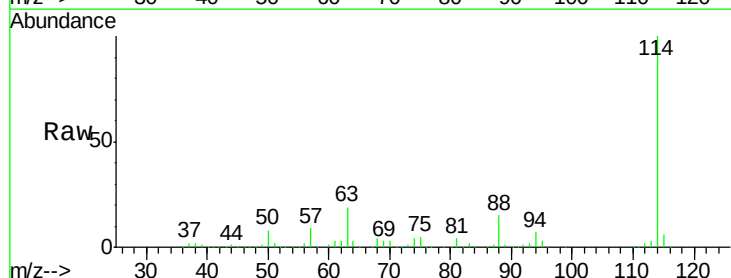
Tgt Ion: 114 Resp: 330076

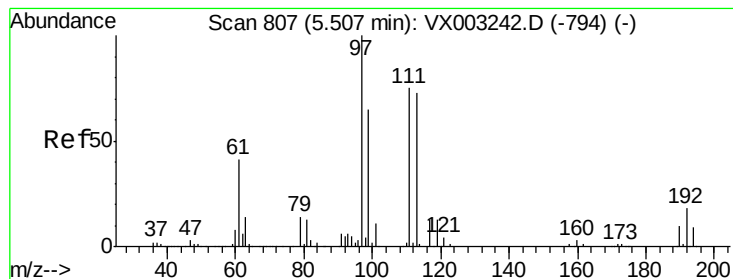
Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 36.13 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

PB110911TB

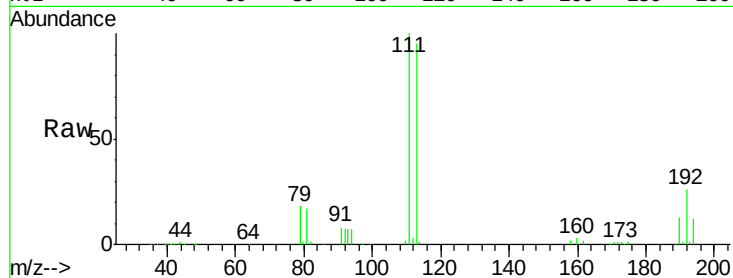
Tot Ion:113 Resp: 128138

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

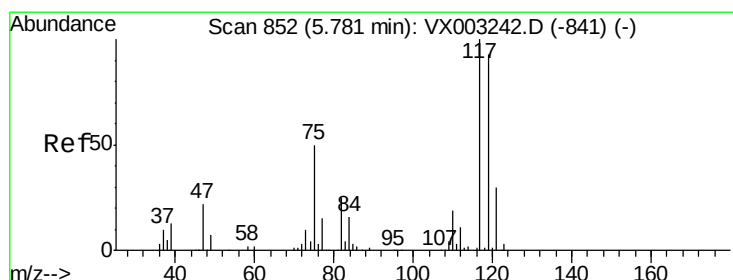
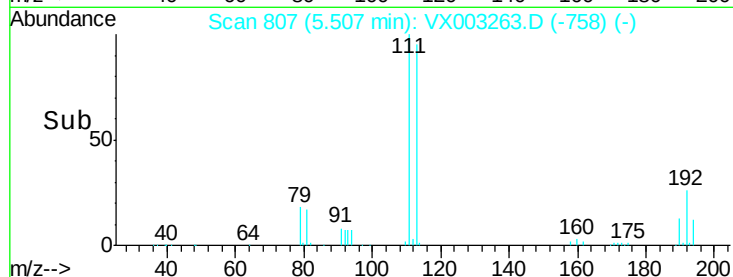
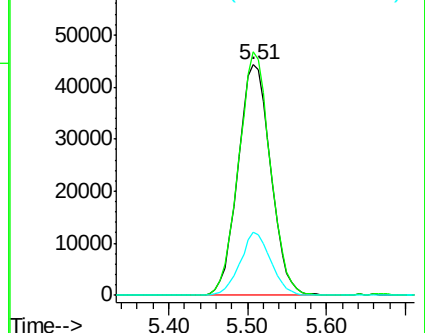
192 25.6 19.1 28.7



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



#38

Carbon Tetrachloride

Concen: 4.13 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

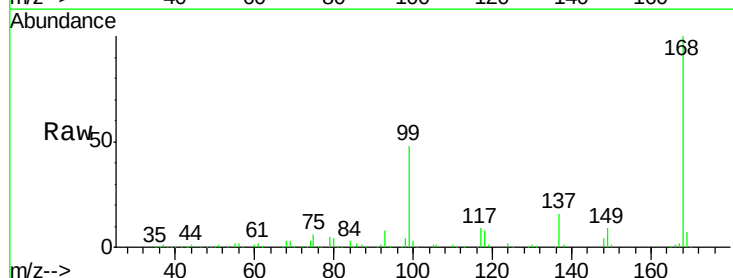
Tgt Ion:117 Resp: 21127

Ion Ratio Lower Upper

117 100

119 6.9 77.4 116.0#

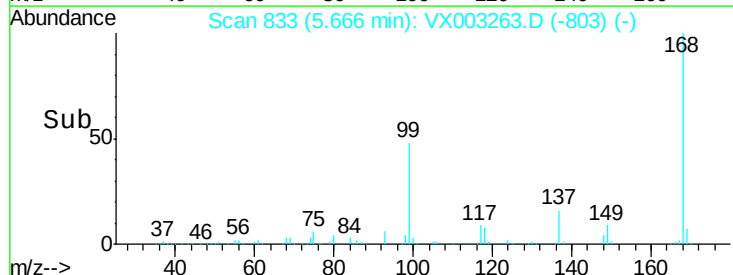
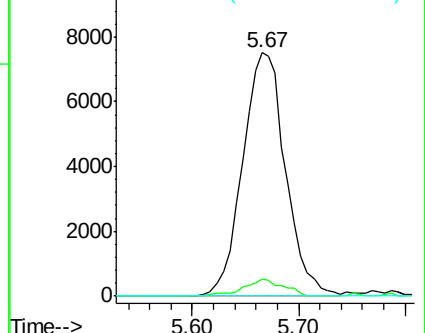
121 0.0 24.4 36.6#

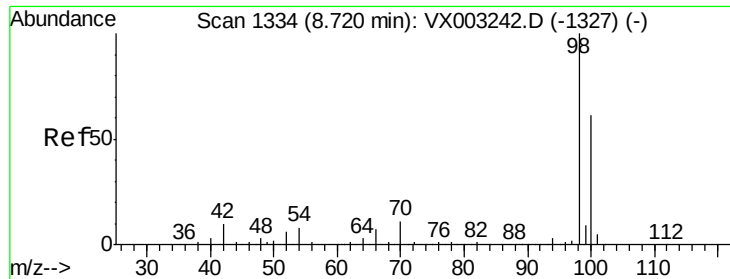


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 36.30 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

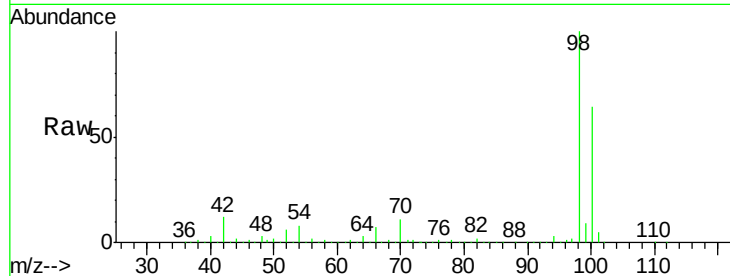
PB110911TB

Tot Ion: 98 Resp: 457214

Ion Ratio Lower Upper

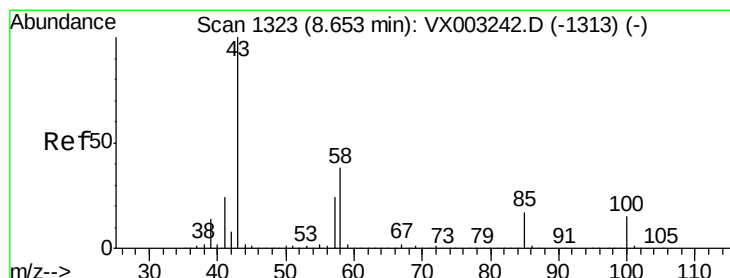
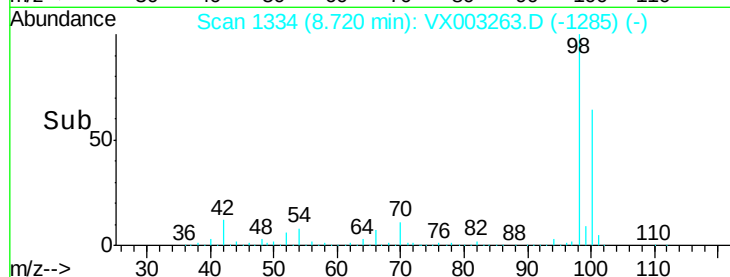
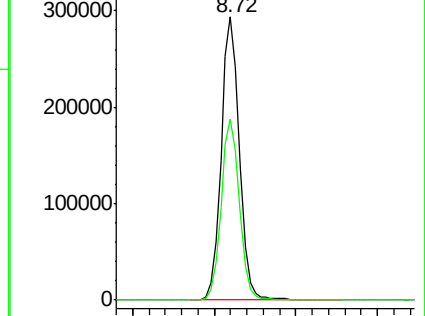
98 100

100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.38 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003263.D

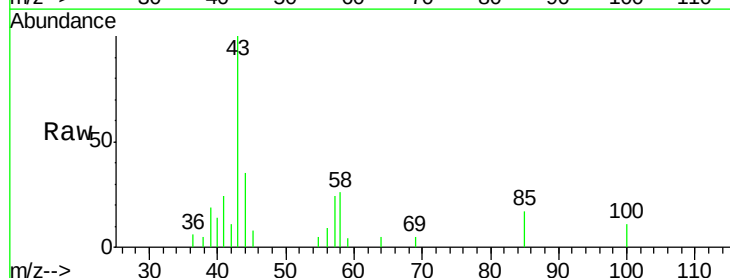
Acq: 10 Jul 2018 00:04

Tgt Ion: 43 Resp: 1882

Ion Ratio Lower Upper

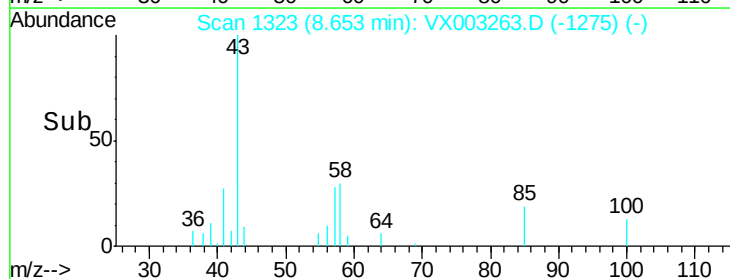
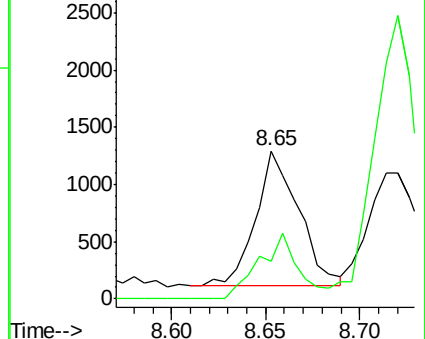
43 100

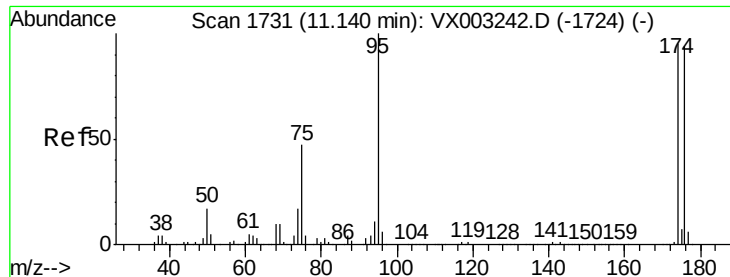
58 44.2 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

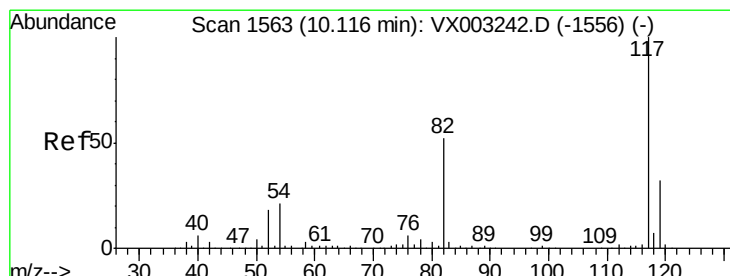
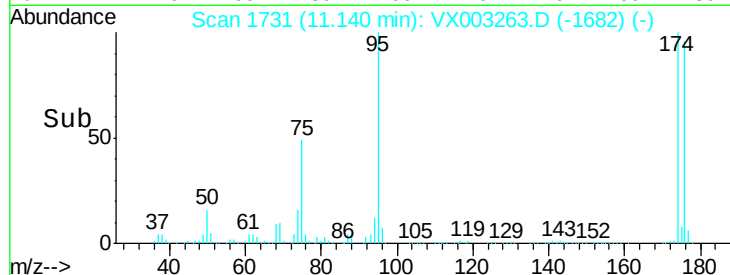
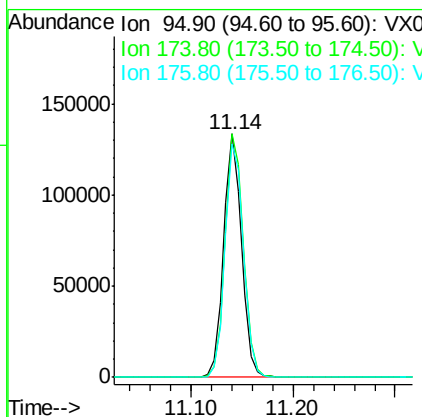
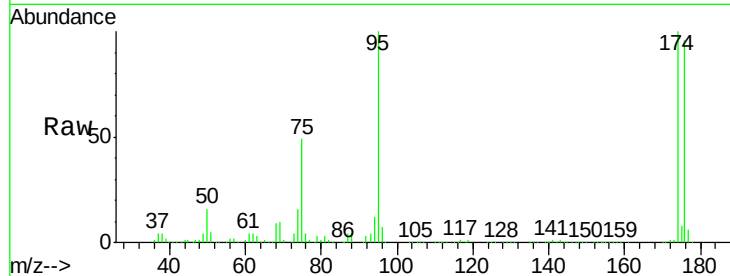




#62
4-Bromofluorobenzene
Concen: 35.06 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

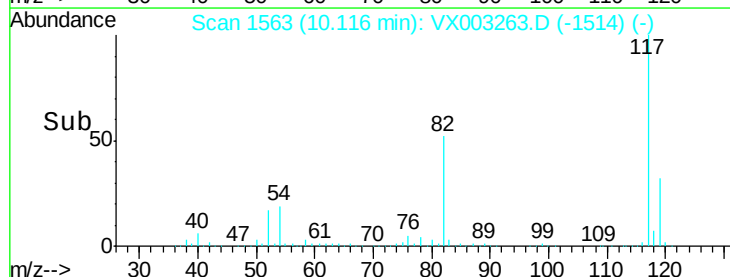
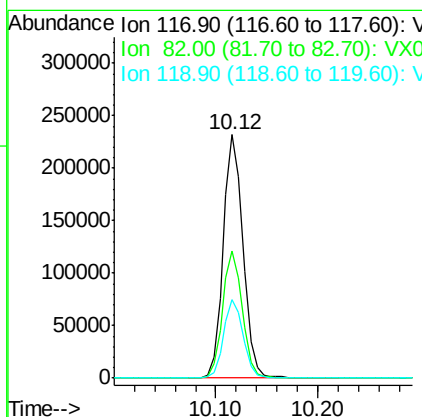
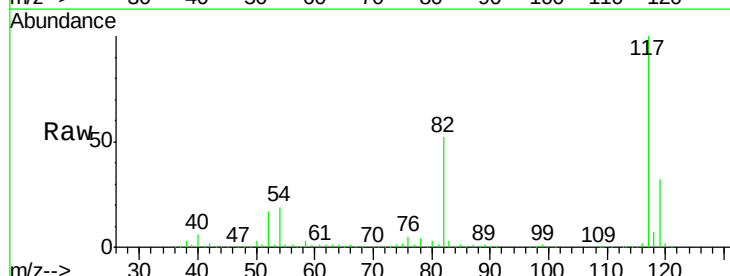
Instrument :
MSVOA_X
ClientSampled :
PB110911TB

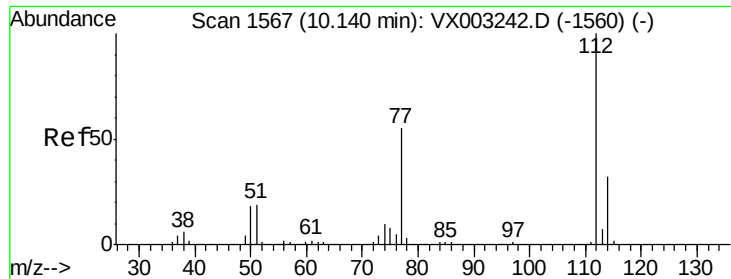
Tot Ion: 95 Resp: 163158
Ion Ratio Lower Upper
95 100
174 101.9 0.0 187.4
176 98.6 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

Tgt Ion: 117 Resp: 313284
Ion Ratio Lower Upper
117 100
82 52.0 45.0 67.4
119 32.4 25.8 38.6





#65

Chlorobenzene

Concen: 0.26 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

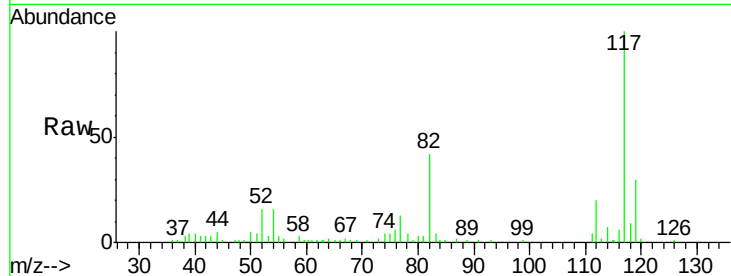
PB110911TB

Tot Ion:112 Resp: 2736

Ion Ratio Lower Upper

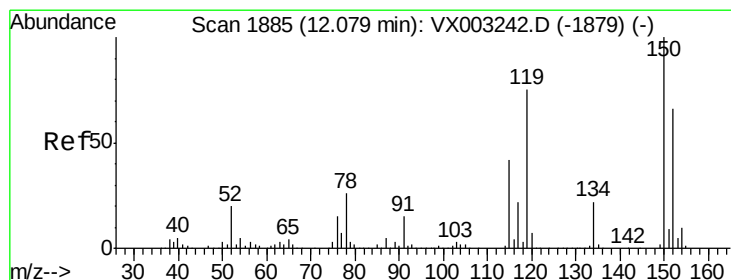
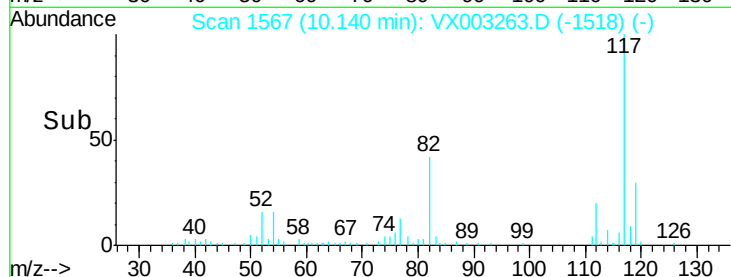
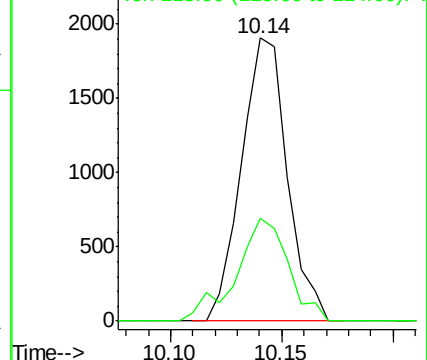
112 100

114 36.6 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX003263.D

Acq: 10 Jul 2018 00:04

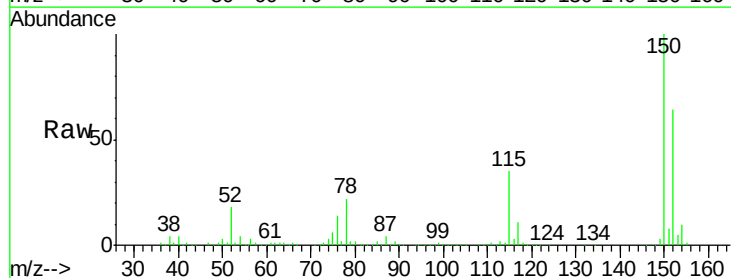
Tgt Ion:152 Resp: 175797

Ion Ratio Lower Upper

152 100

115 52.5 40.1 120.2

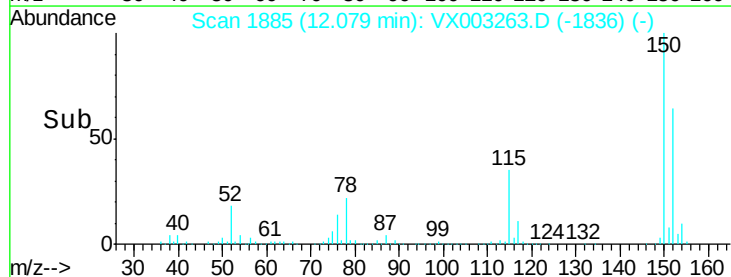
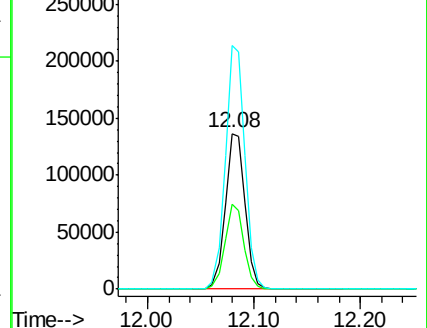
150 155.6 0.0 347.2

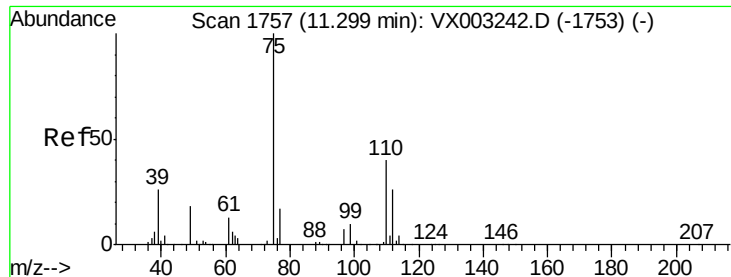


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

Instrument :

MSVOA_X

ClientSampled :

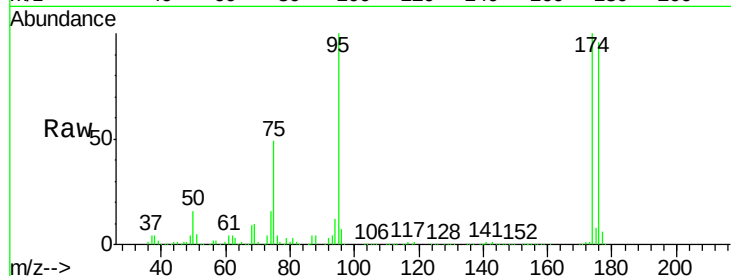
PB110911TB

Tot Ion: 75 Resp: 78659

Ion Ratio Lower Upper

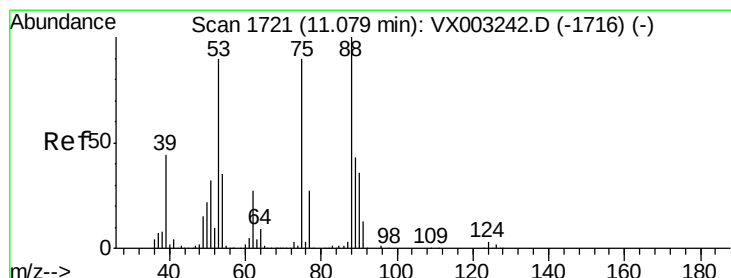
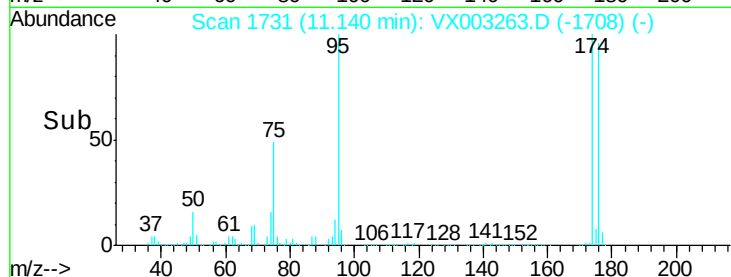
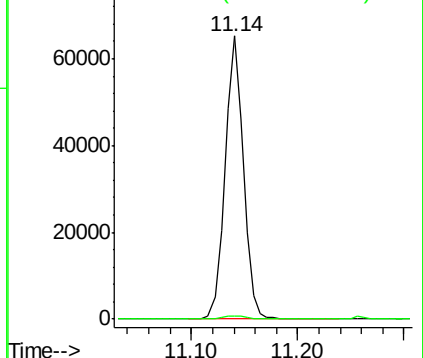
75 100

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: 67.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003263.D

Acq: 10 Jul 2018 00:04

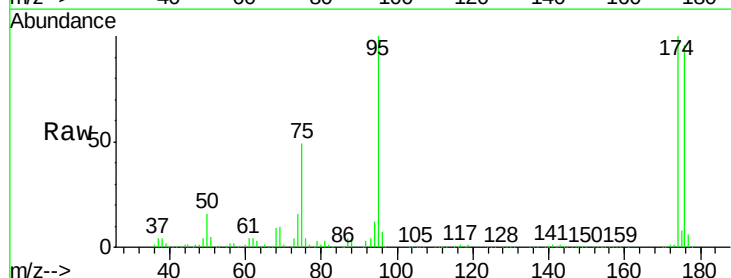
Tgt Ion: 75 Resp: 78659

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

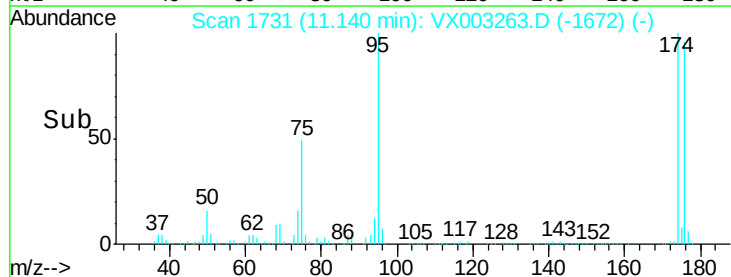
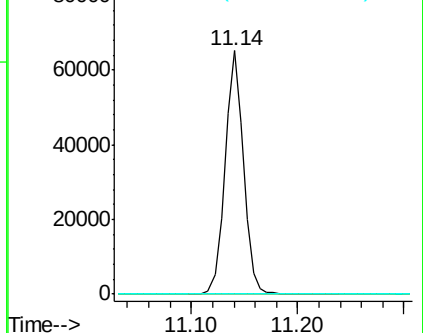
89 0.0 38.2 57.2#

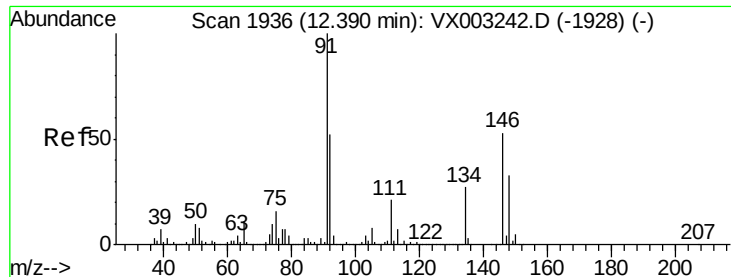


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

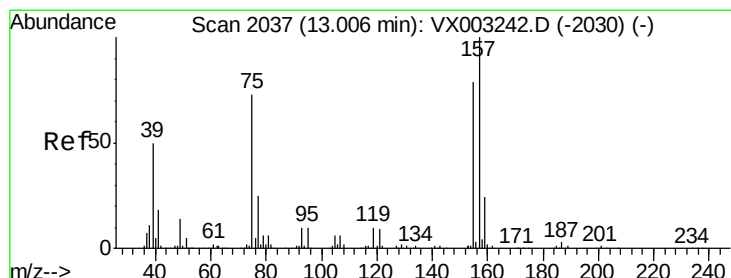
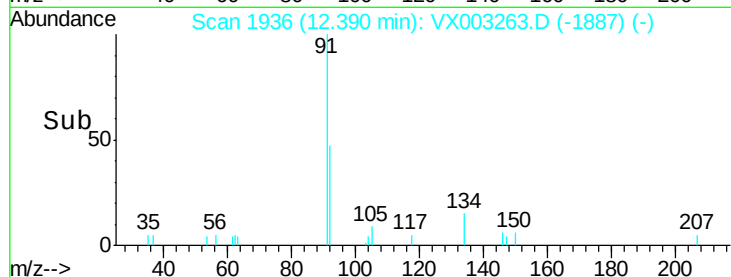
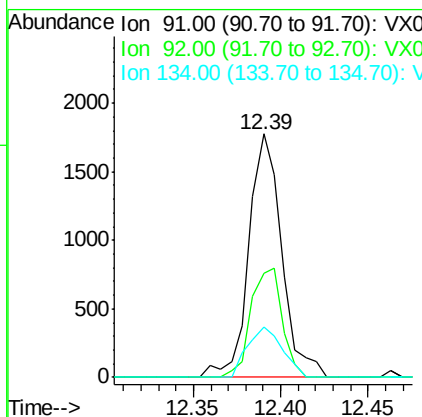
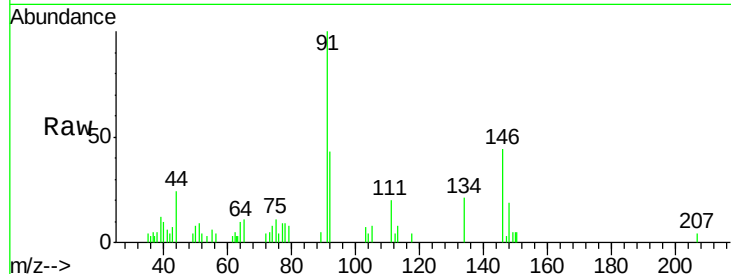




#89
n-Butylbenzene
Concen: 0.23 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

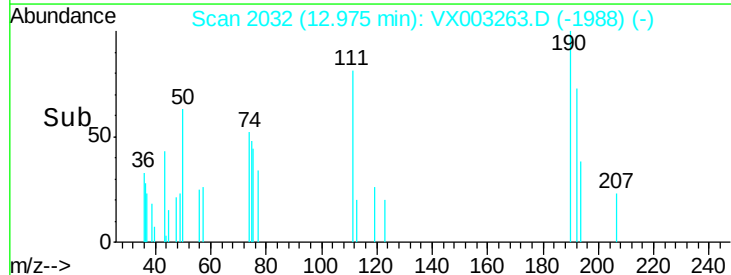
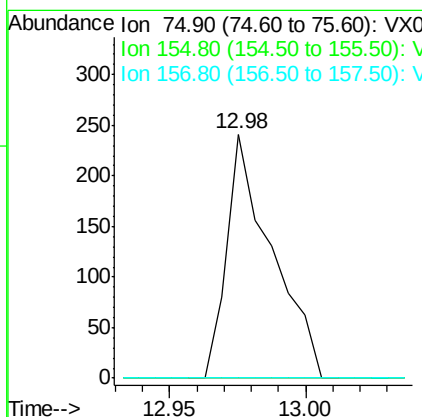
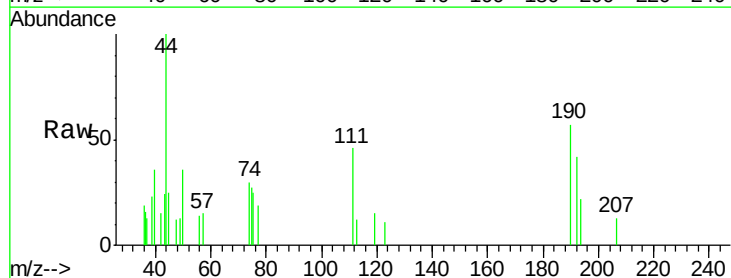
Instrument :
MSVOA_X
ClientSampleId :
PB110911TB

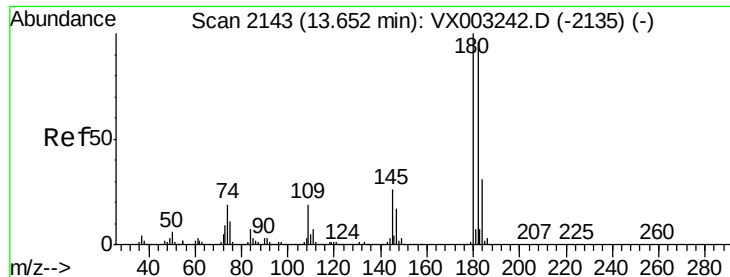
Tot Ion: 91 Resp: 2347
Ion Ratio Lower Upper
91 100
92 42.6 26.0 78.0
134 21.9 13.5 40.5



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.30 ug/l
RT: 12.98 min Scan# 2032
Delta R.T. -0.03 min
Lab File: VX003263.D
Acq: 10 Jul 2018 00:04

Tgt Ion: 75 Resp: 276
Ion Ratio Lower Upper
75 100
155 0.0 45.8 137.4#
157 0.0 60.1 180.3#

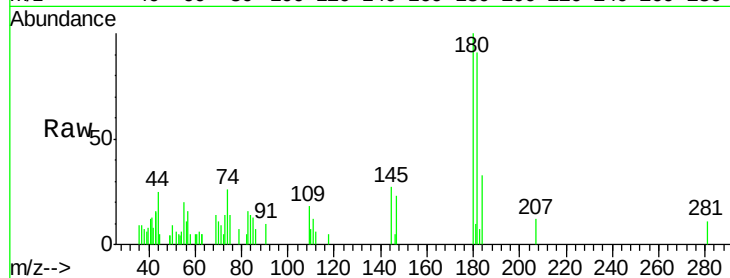




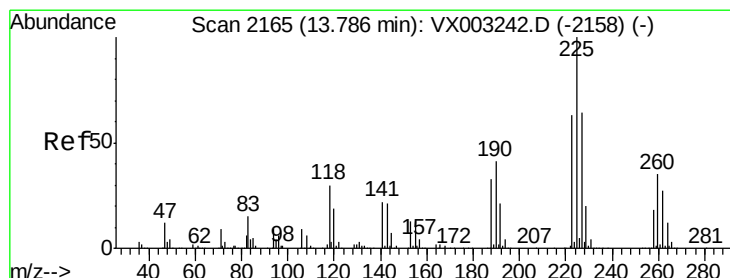
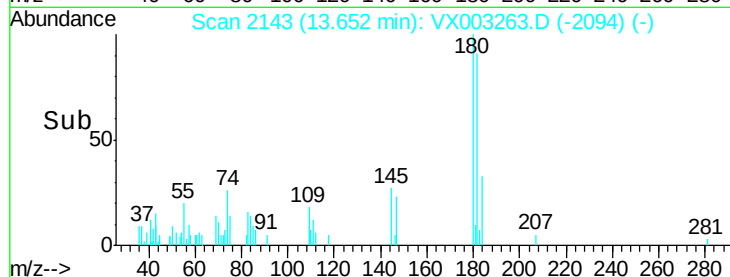
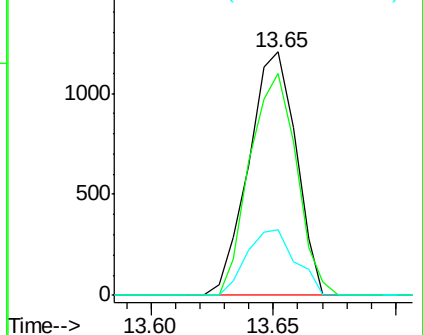
#93
 1,2,4-Trichlorobenzene
 Concen: 0.30 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX003263.D
 Acq: 10 Jul 2018 00:04

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911TB

Tot Ion:180 Resp: 1620
 Ion Ratio Lower Upper
 180 100
 182 89.9 47.7 143.1
 145 27.8 14.1 42.4

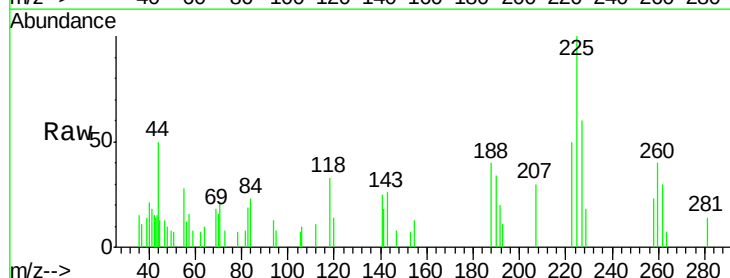


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

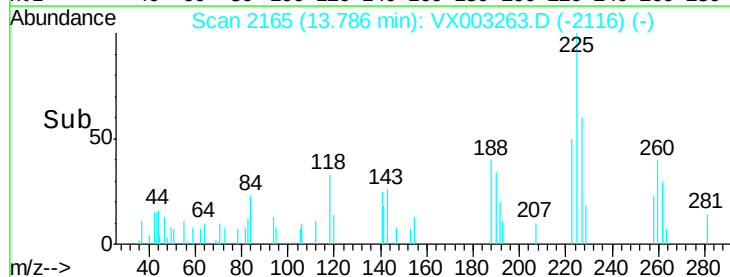
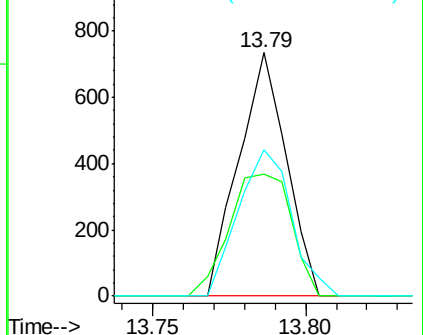


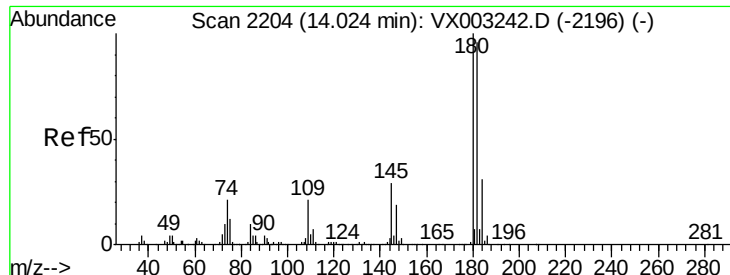
#94
 Hexachlorobutadiene
 Concen: 0.30 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003263.D
 Acq: 10 Jul 2018 00:04

Tgt Ion:225 Resp: 790
 Ion Ratio Lower Upper
 225 100
 223 65.6 31.6 95.0
 227 67.7 32.4 97.2



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.23 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003263.D
 Acq: 10 Jul 2018 00:04

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	106.0	48.0	144.0
145	36.7	14.8	44.3

