

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011192.D
 Acq On : 30 Jul 2019 14:10
 Operator : JC/SP
 Sample : K4043-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-DUP-20190724

Quant Time: Aug 08 05:23:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218794	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	317898	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	278178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	130056	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	108622	46.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.34%	
35) Dibromofluoromethane	5.50	113	95287	47.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.44%	
50) Toluene-d8	8.71	98	367658	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.13	95	120100	43.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.34%	

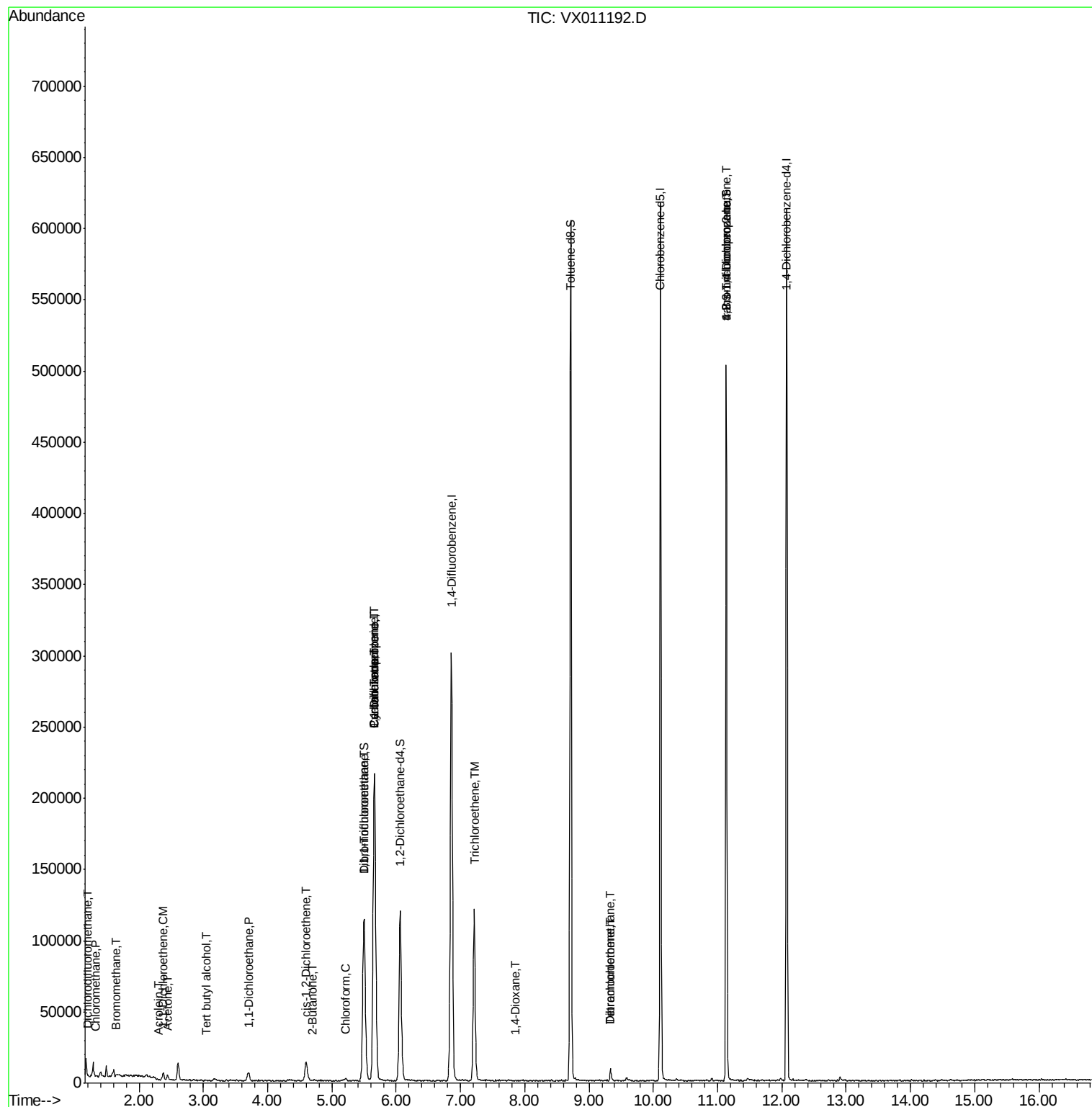
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	22	0.556	ug/l #	43
3) Chloromethane	1.33	50	1056	0.525	ug/l	98
5) Bromomethane	1.65	94	773	0.668	ug/l	89
11) Tert butyl alcohol	3.05	59	560	1.033	ug/l #	89
12) 1,1-Dichloroethene	2.37	96	1877	0.963	ug/l #	86
13) Acrolein	2.29	56	227	0.725	ug/l	100
16) Acetone	2.44	43	3656	3.478	ug/l	93
24) 1,1-Dichloroethane	3.70	63	5897	1.701	ug/l #	91
25) 2-Butanone	4.70	43	500	0.331	ug/l #	85
27) cis-1,2-Dichloroethene	4.60	96	8987	3.755	ug/l	89
30) Chloroform	5.21	83	1630	0.435	ug/l #	73
31) Cyclohexane	5.65	56	4528	1.433	ug/l #	37
32) 1,1,1-Trichloroethane	5.50	97	1612	0.497	ug/l #	24
36) 1,1-Dichloropropene	5.66	75	14545	5.570	ug/l #	51
38) Carbon Tetrachloride	5.66	117	20861	7.667	ug/l #	18
44) Trichloroethene	7.21	130	47412	20.025	ug/l	95
49) 1,4-Dioxane	7.85	88	46	0.768	ug/l #	1
60) Dibromochloromethane	9.34	129	1388	3.057	ug/l #	11
64) Tetrachloroethene	9.34	164	1417	0.648	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	60535	25.793	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60535	64.127	ug/l #	11

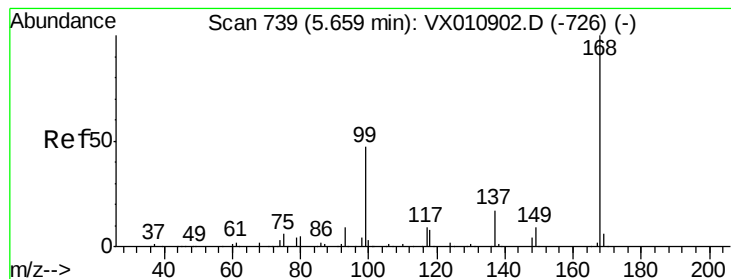
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

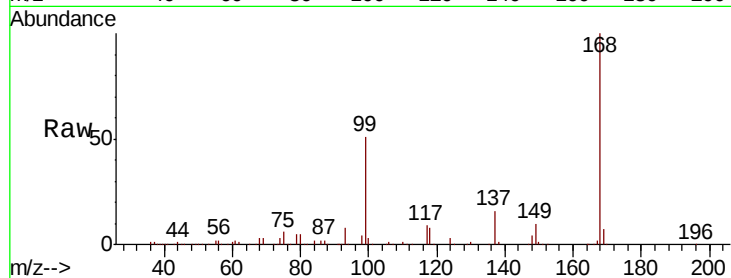
BP-VPB203-DUP-20190724

Tgt Ion: 168 Resp: 218794

Ion Ratio Lower Upper

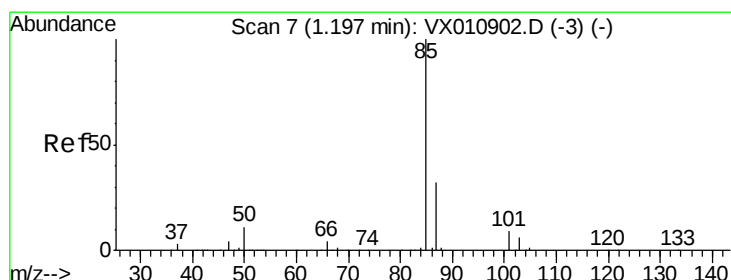
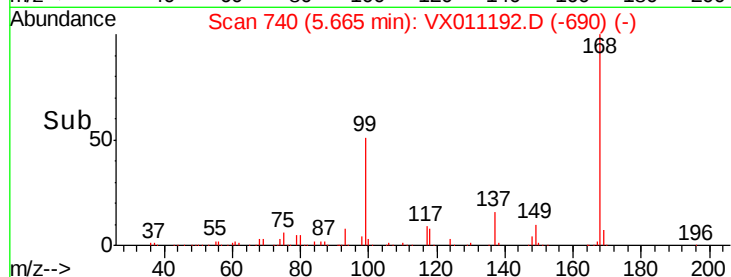
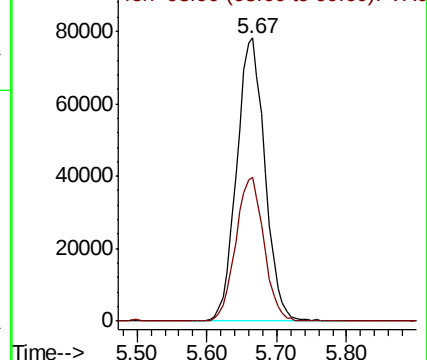
168 100

99 50.7 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.556 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011192.D

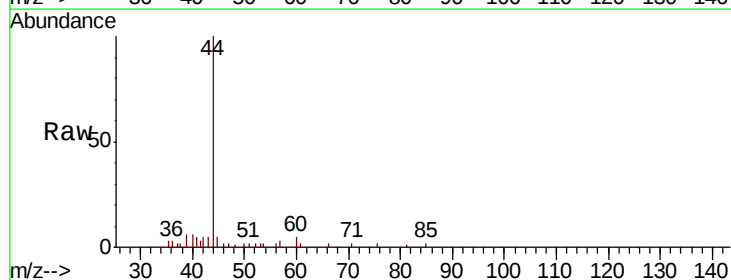
Acq: 30 Jul 2019 14:10

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

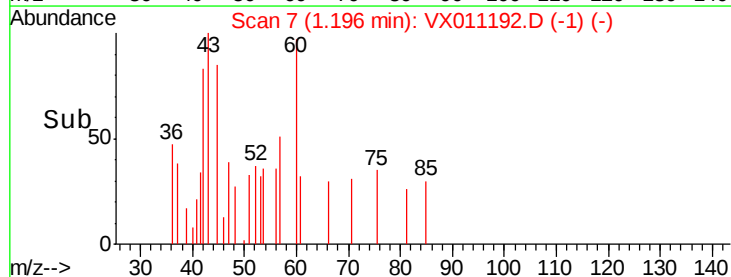
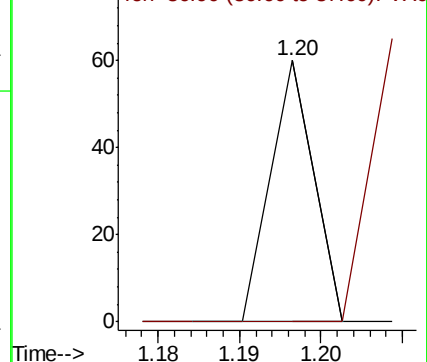
85 100

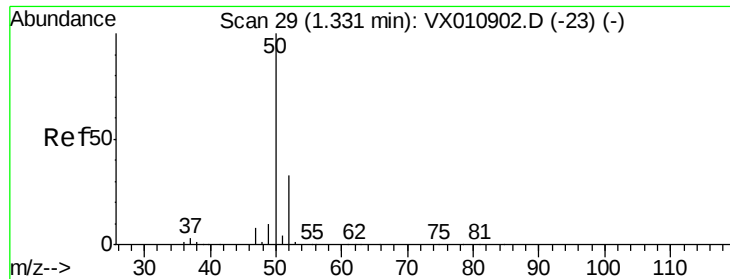
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.525 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

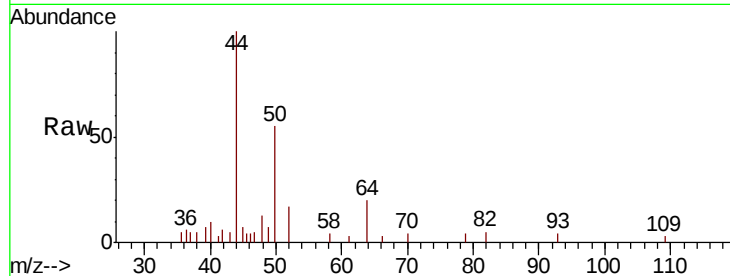
BP-VPB203-DUP-20190724

Tgt Ion: 50 Resp: 1056

Ion Ratio Lower Upper

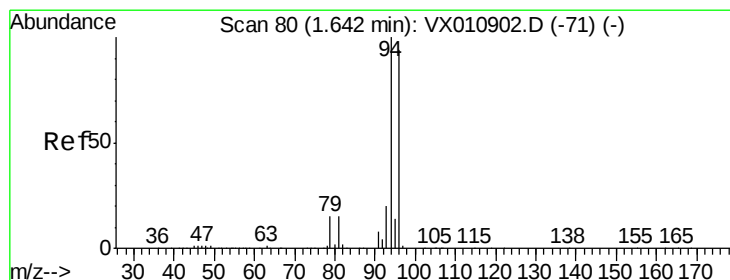
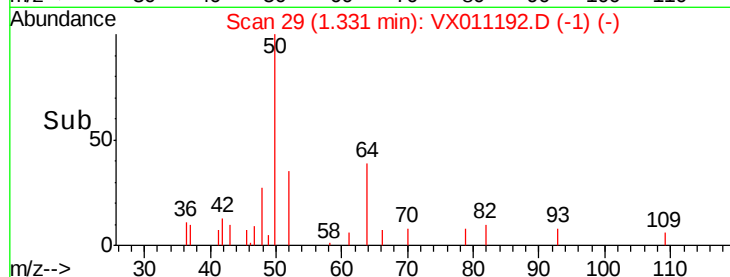
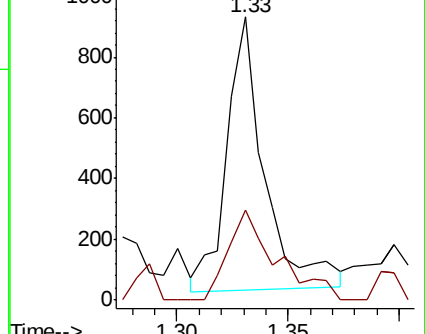
50 100

52 34.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.668 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011192.D

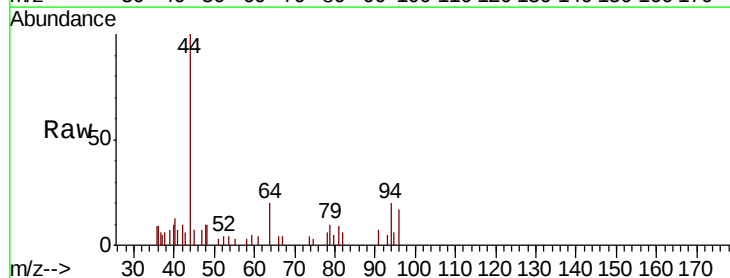
Acq: 30 Jul 2019 14:10

Tgt Ion: 94 Resp: 773

Ion Ratio Lower Upper

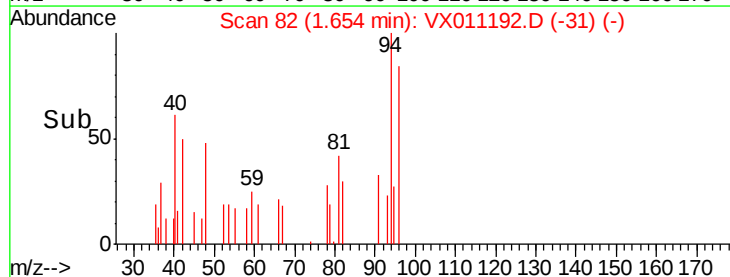
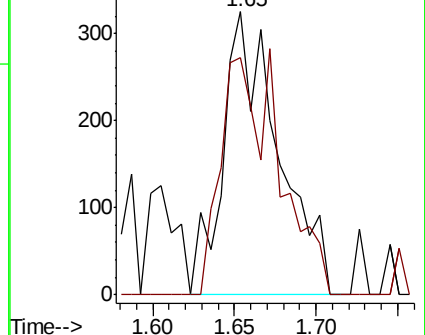
94 100

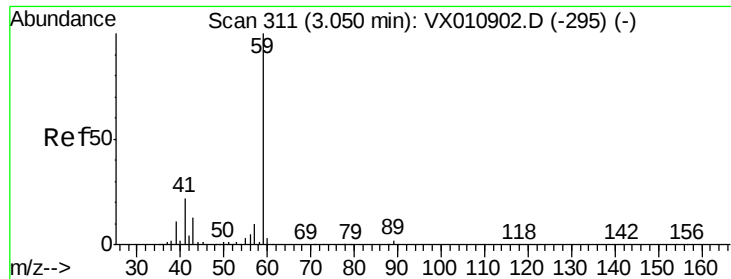
96 83.7 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

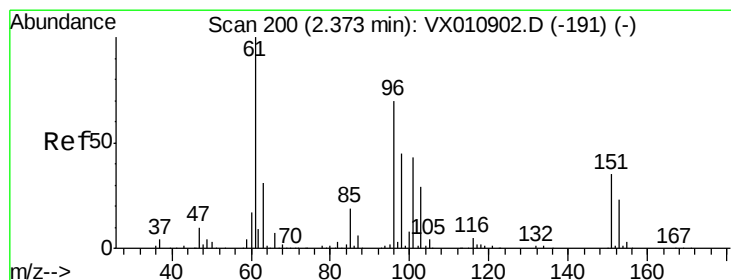
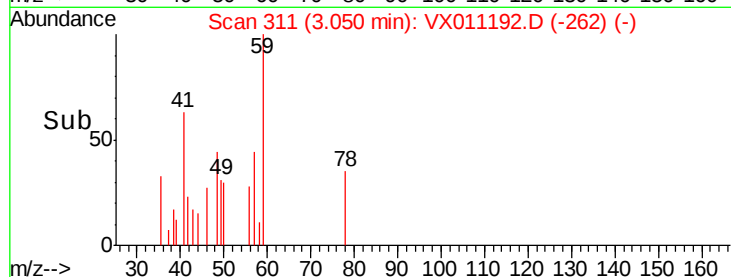
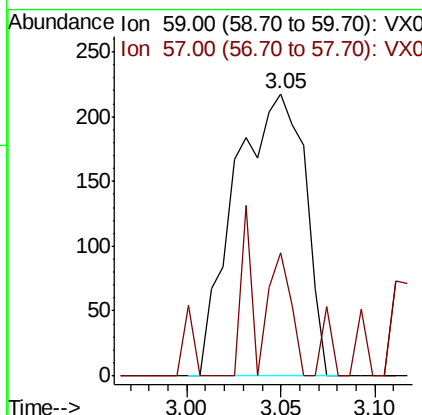
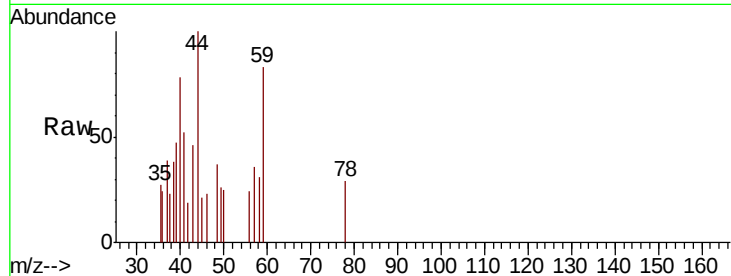




#11
Tert butyl alcohol
Concen: 1.033 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.00 min
Lab File: VX011192.D
Acq: 30 Jul 2019 14:10

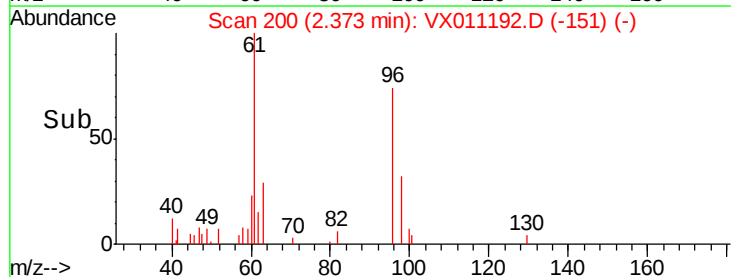
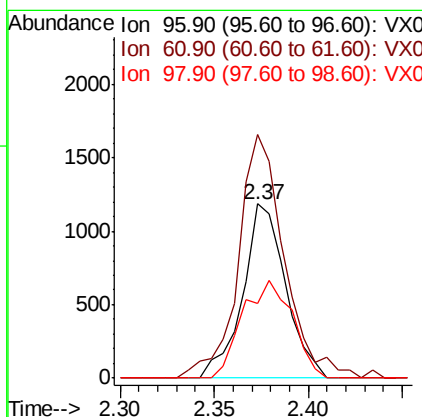
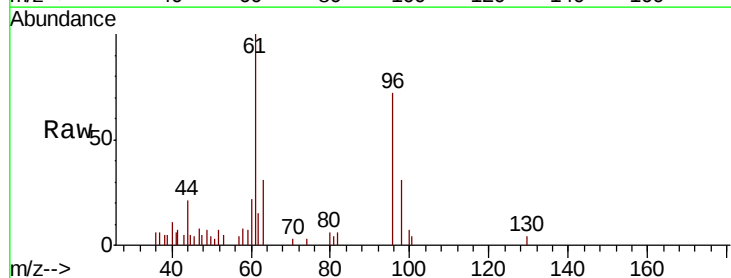
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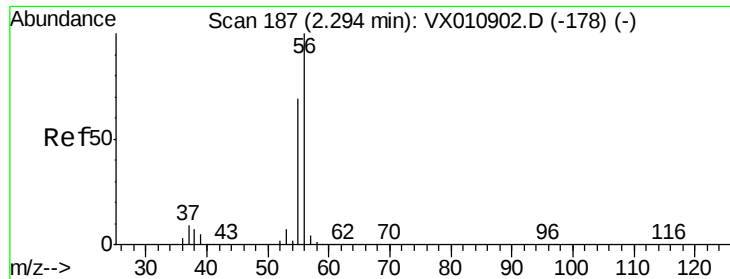
Tgt Ion: 59 Resp: 560
Ion Ratio Lower Upper
59 100
57 14.1 7.9 11.9#



#12
1,1-Dichloroethene
Concen: 0.963 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX011192.D
Acq: 30 Jul 2019 14:10

Tgt Ion: 96 Resp: 1877
Ion Ratio Lower Upper
96 100
61 135.2 115.0 172.4
98 43.0 52.2 78.2#





#13

Acrolein

Concen: 0.725 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

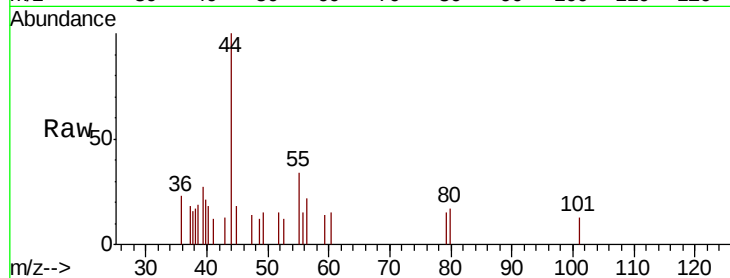
BP-VPB203-DUP-20190724

Tgt Ion: 56 Resp: 227

Ion Ratio Lower Upper

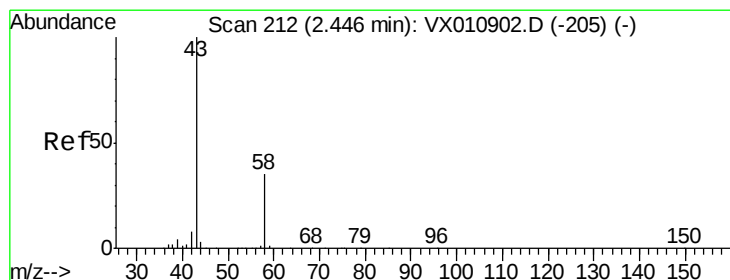
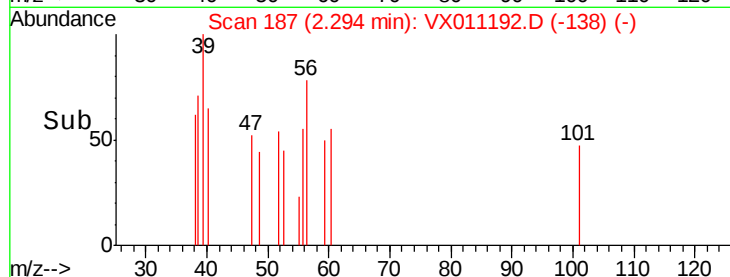
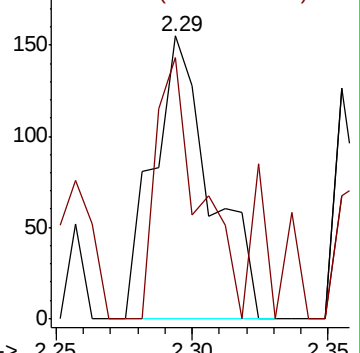
56 100

55 69.6 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.478 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011192.D

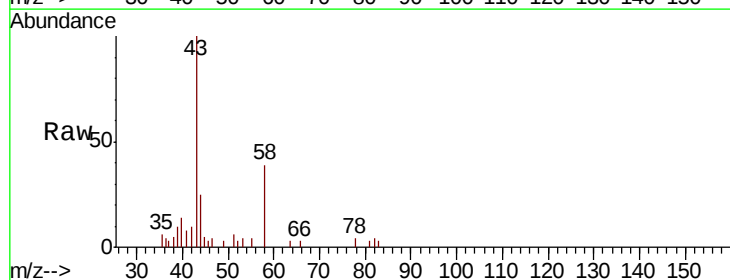
Acq: 30 Jul 2019 14:10

Tgt Ion: 43 Resp: 3656

Ion Ratio Lower Upper

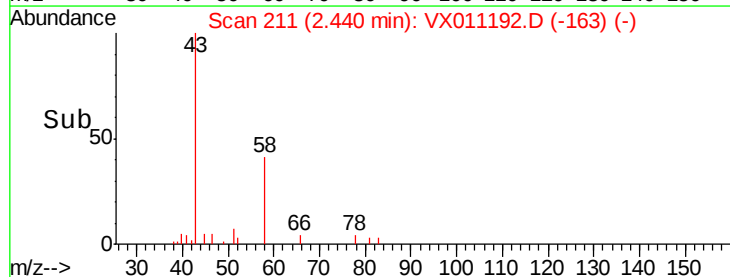
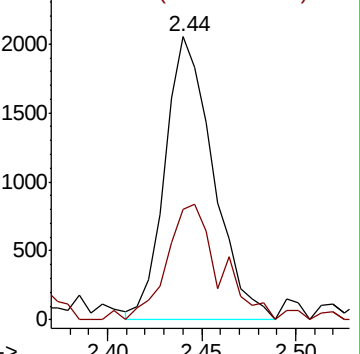
43 100

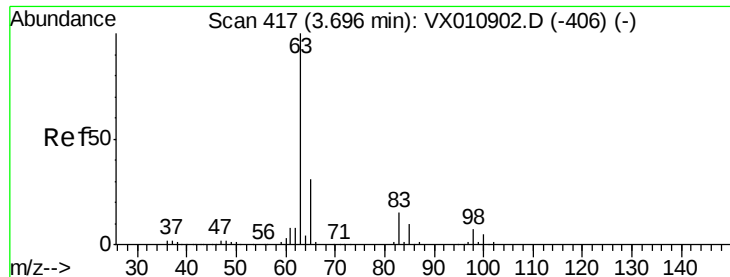
58 38.9 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#24

1,1-Dichloroethane

Concen: 1.701 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

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ClientSampleId :

BP-VPB203-DUP-20190724

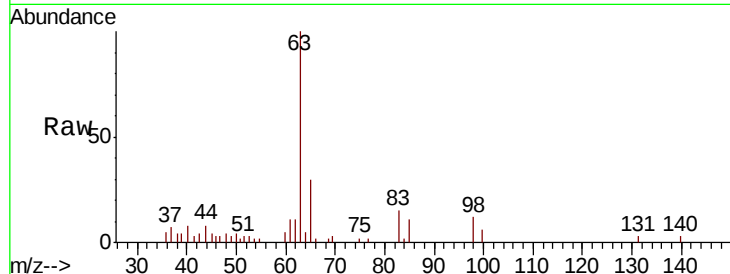
Tgt Ion: 63 Resp: 5897

Ion Ratio Lower Upper

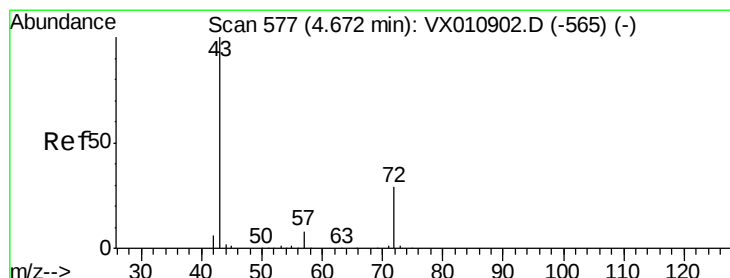
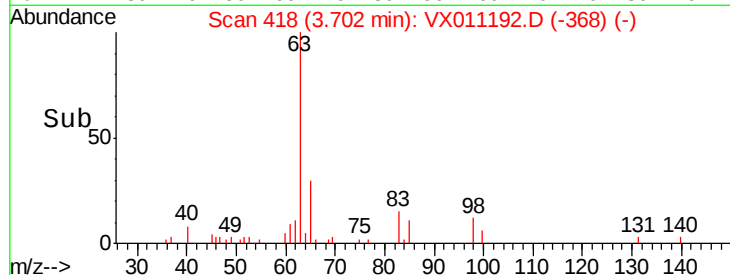
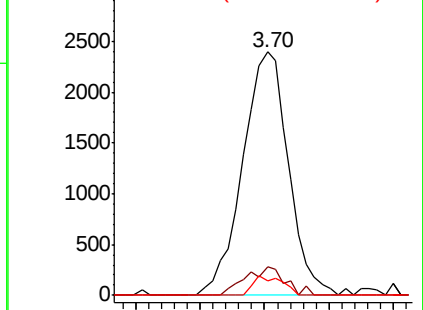
63 100

98 11.9 3.6 10.9#

100 5.8 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.331 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX011192.D

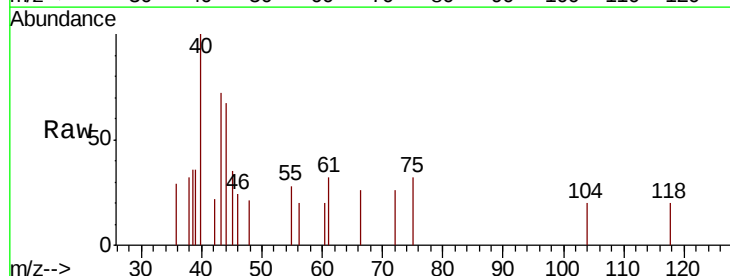
Acq: 30 Jul 2019 14:10

Tgt Ion: 43 Resp: 500

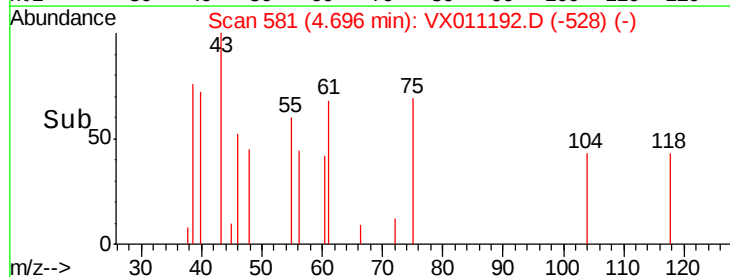
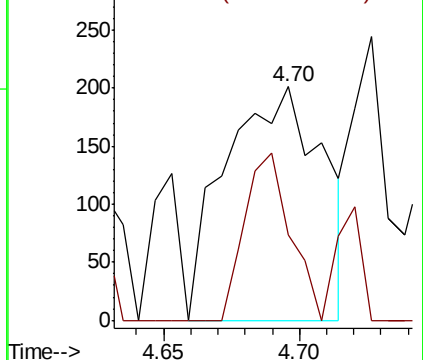
Ion Ratio Lower Upper

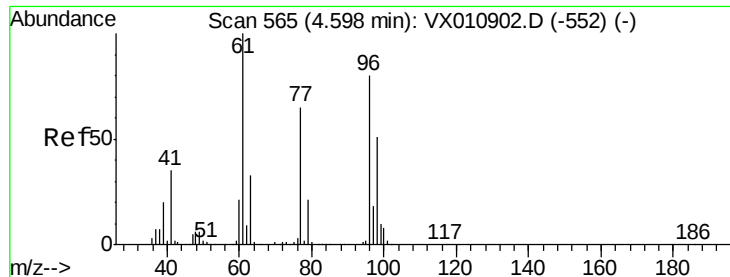
43 100

72 36.8 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



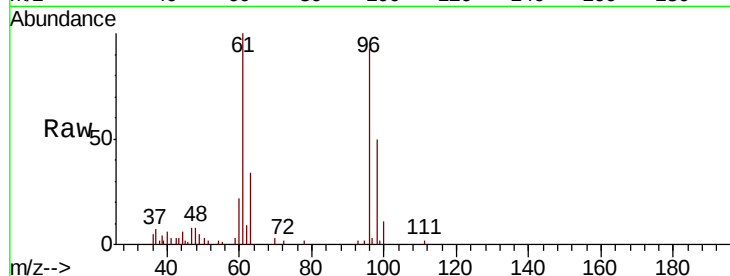


#27

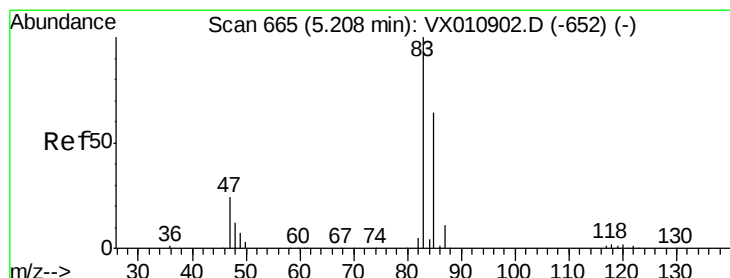
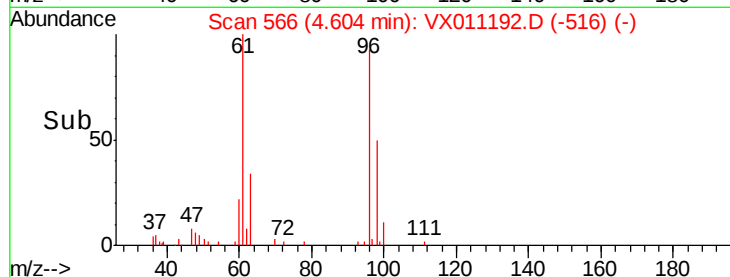
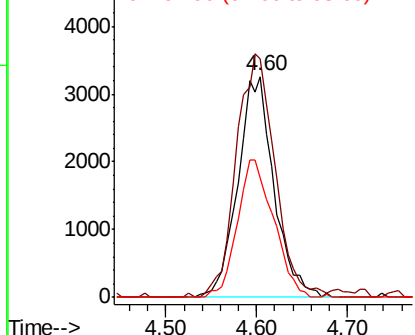
cis-1,2-Dichloroethene
 Concen: 3.755 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX011192.D
 Acq: 30 Jul 2019 14:10

Instrument :
 MSVOA_X
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 BP-VPB203-DUP-20190724

Tgt Ion: 96 Resp: 8987
 Ion Ratio Lower Upper
 96 100
 61 118.0 0.0 269.0
 98 62.5 0.0 131.4



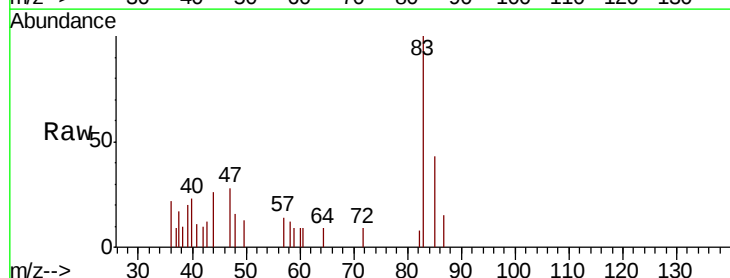
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



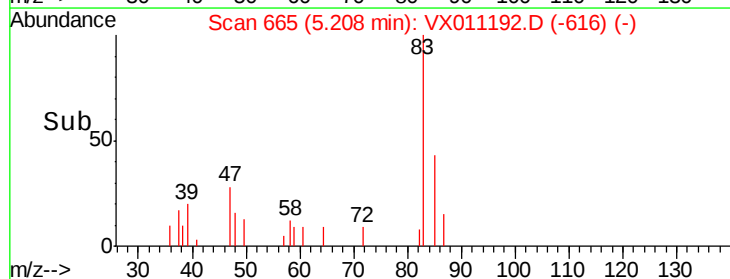
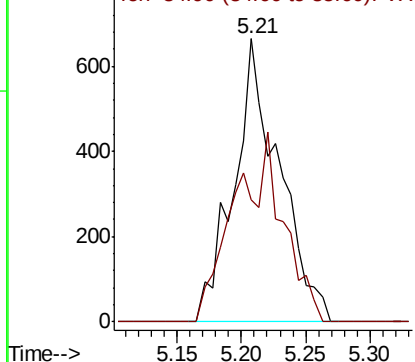
#30

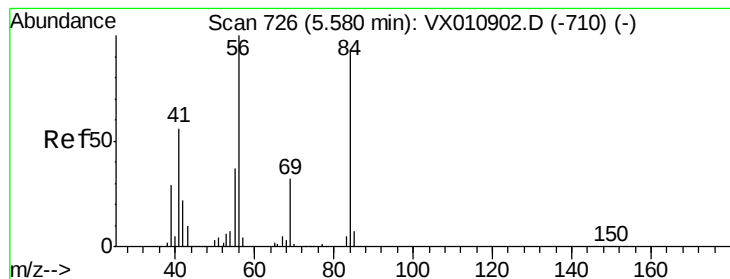
Chloroform
 Concen: 0.435 ug/l
 RT: 5.21 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VX011192.D
 Acq: 30 Jul 2019 14:10

Tgt Ion: 83 Resp: 1630
 Ion Ratio Lower Upper
 83 100
 85 43.1 51.4 77.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.433 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

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ClientSampleId :

BP-VPB203-DUP-20190724

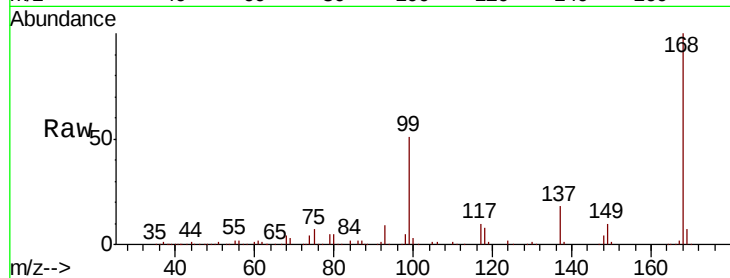
Tgt Ion: 56 Resp: 4528

Ion Ratio Lower Upper

56 100

69 130.0 25.8 38.8#

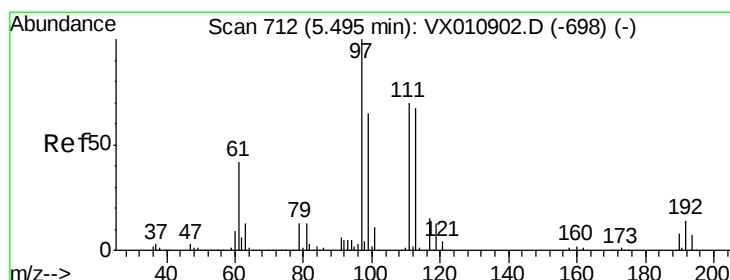
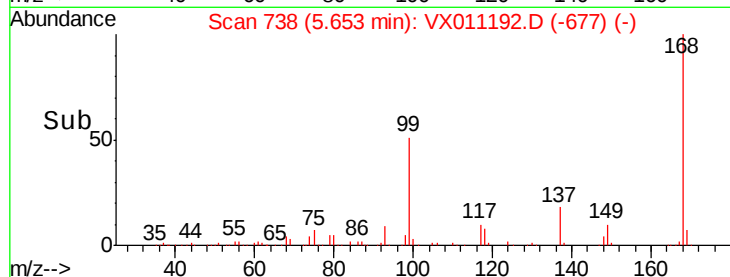
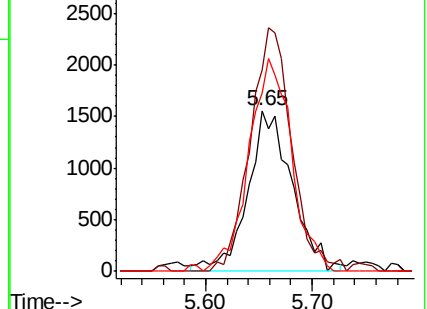
84 115.5 73.8 110.6#



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



#32

1,1,1-Trichloroethane

Concen: 0.497 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

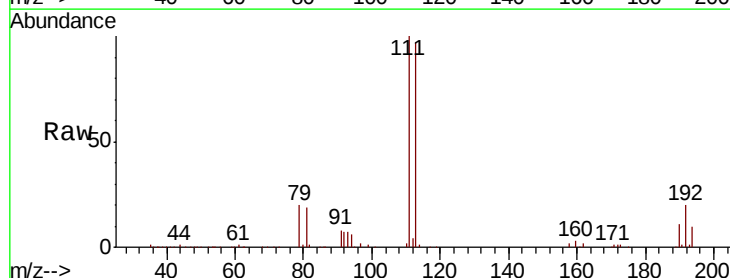
Tgt Ion: 97 Resp: 1612

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

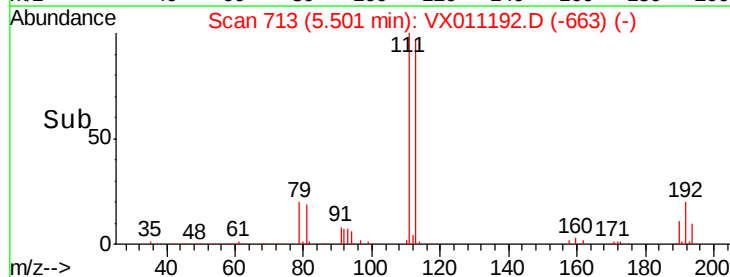
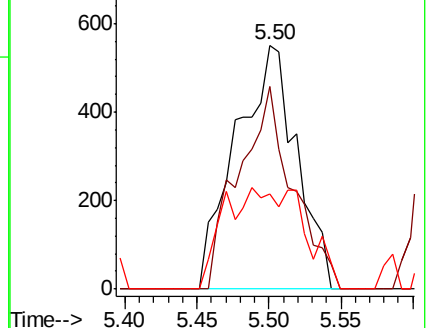
61 0.0 33.0 49.6#

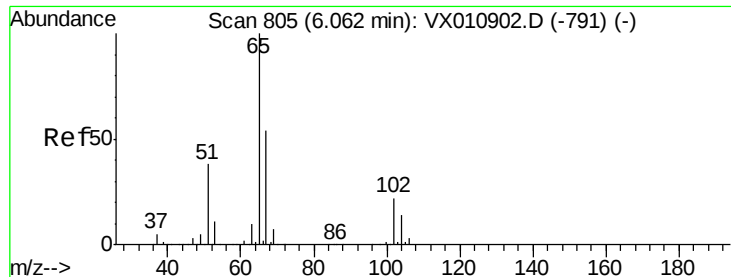


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.666 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

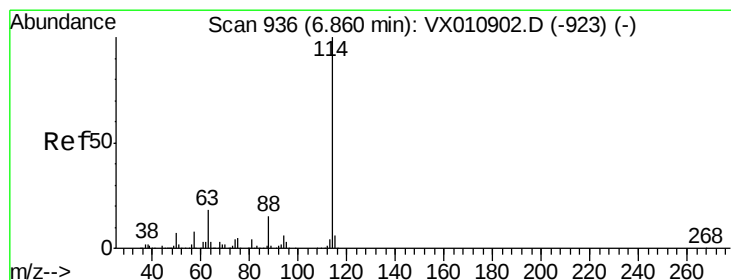
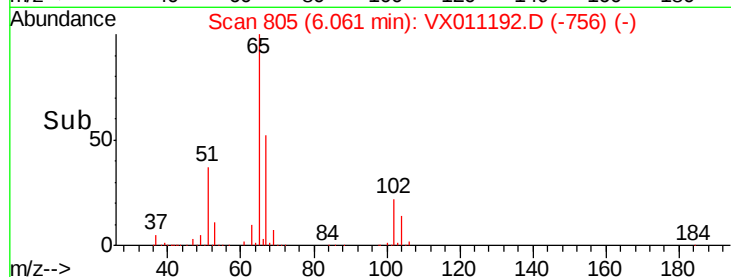
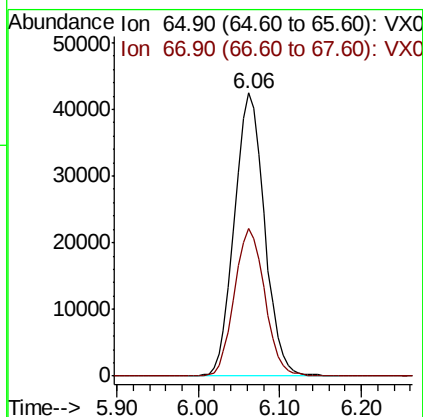
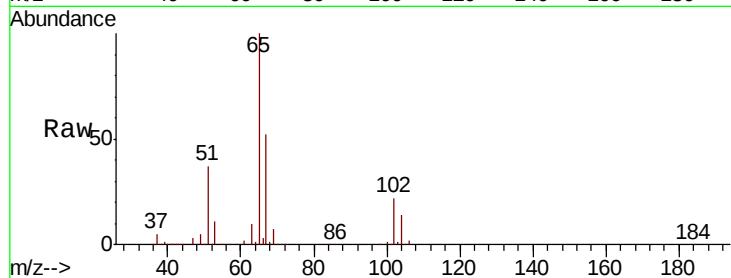
BP-VPB203-DUP-20190724

Tgt Ion: 65 Resp: 108622

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

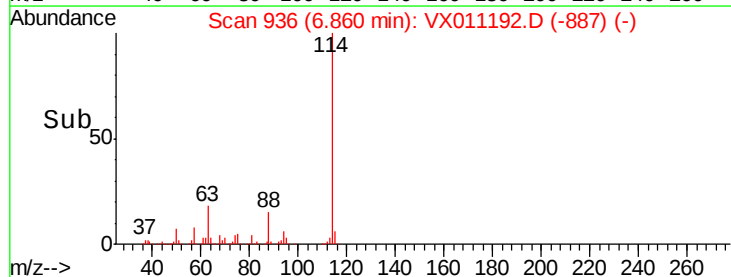
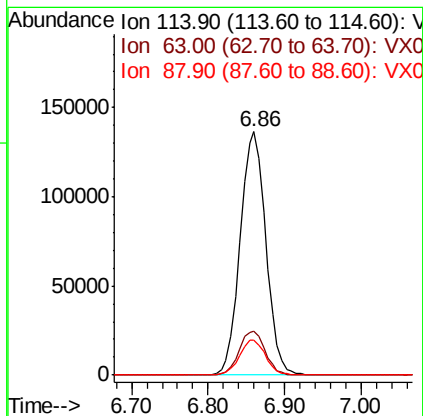
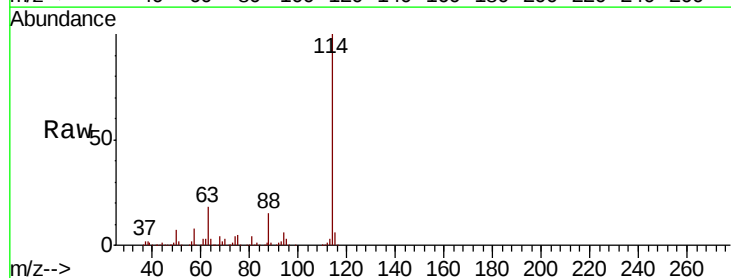
Tgt Ion: 114 Resp: 317898

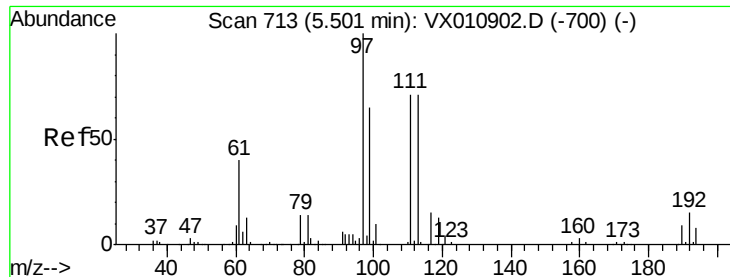
Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

88 14.6 0.0 29.8

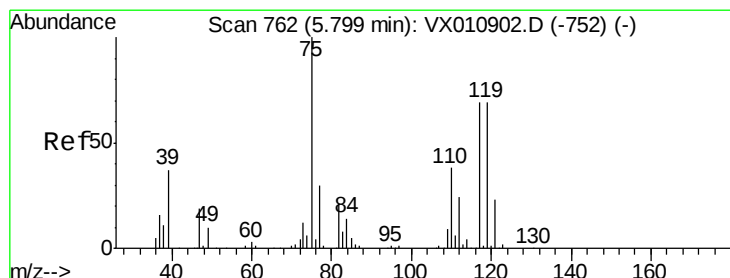
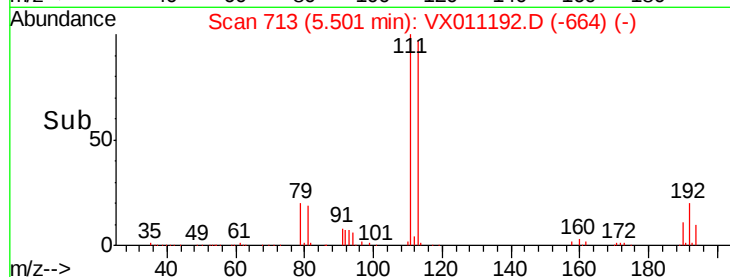
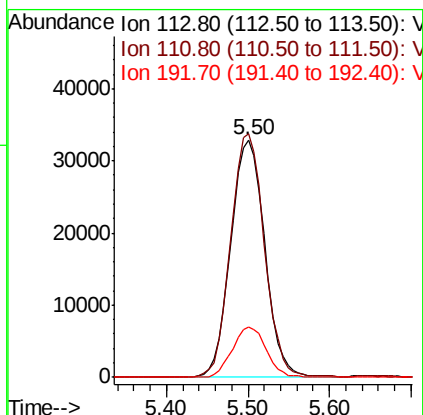
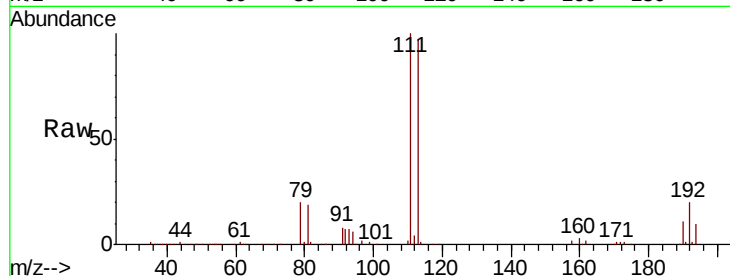




#35
 Dibromofluoromethane
 Concen: 47.224 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX011192.D
 Acq: 30 Jul 2019 14:10

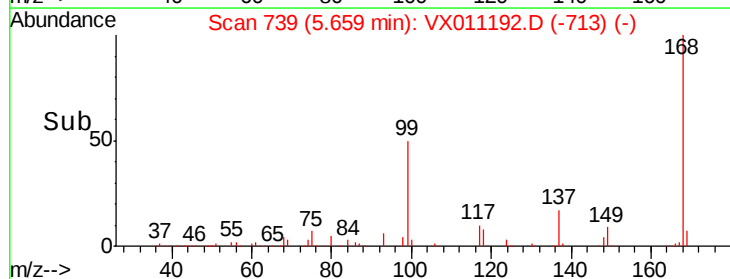
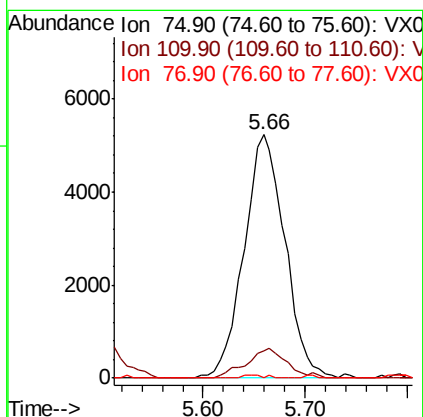
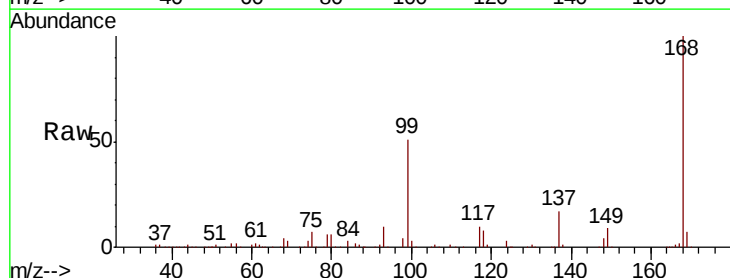
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-DUP-20190724

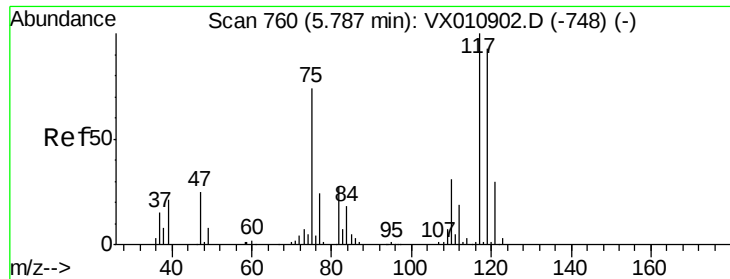
Tgt Ion:113 Resp: 95287
 Ion Ratio Lower Upper
 113 100
 111 101.3 82.3 123.5
 192 21.0 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.570 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011192.D
 Acq: 30 Jul 2019 14:10

Tgt Ion: 75 Resp: 14545
 Ion Ratio Lower Upper
 75 100
 110 12.3 19.9 59.7#
 77 0.7 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 7.667 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-DUP-20190724

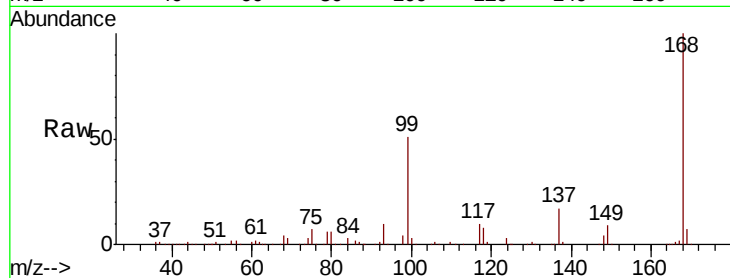
Tgt Ion:117 Resp: 20861

Ion Ratio Lower Upper

117 100

119 5.8 74.2 111.2#

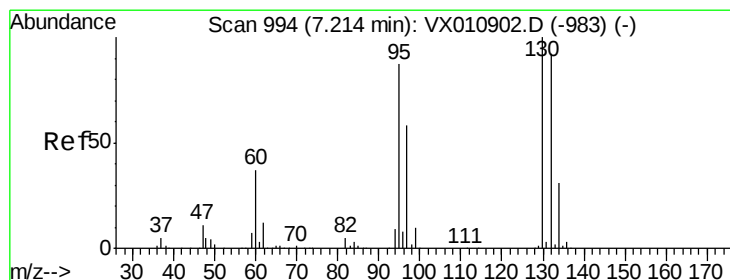
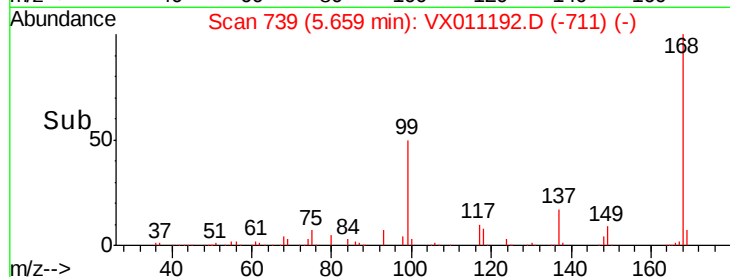
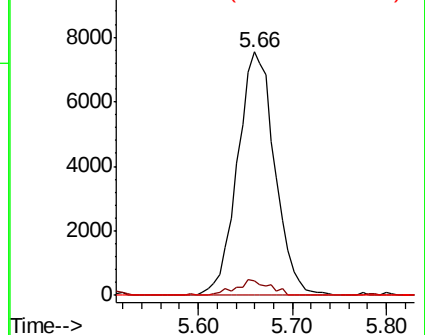
121 0.0 24.2 36.2#



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: 20.025 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX011192.D

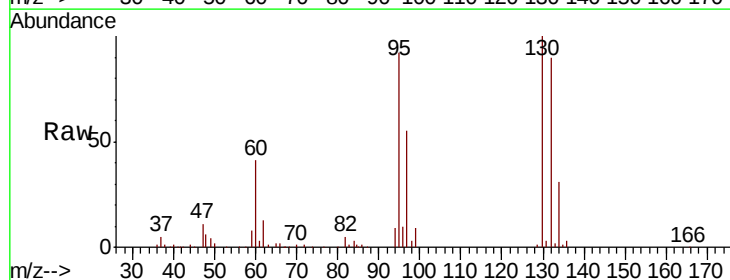
Acq: 30 Jul 2019 14:10

Tgt Ion:130 Resp: 47412

Ion Ratio Lower Upper

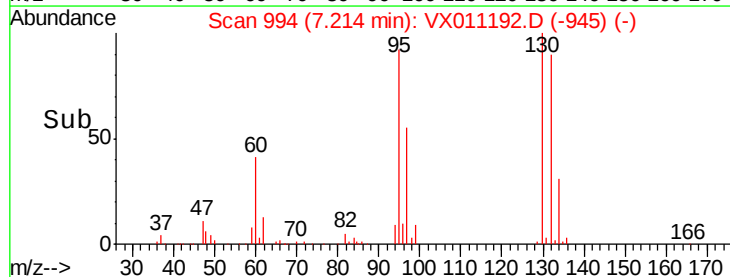
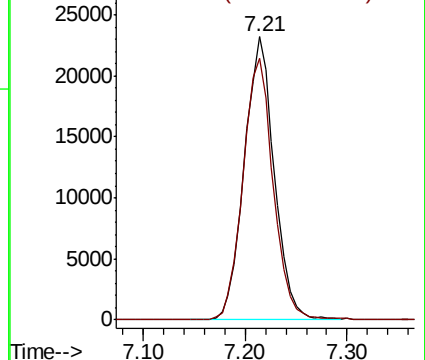
130 100

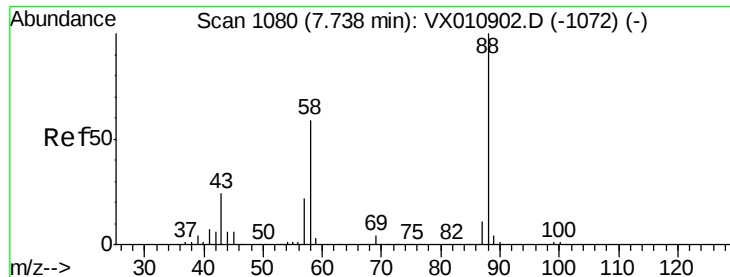
95 92.4 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.768 ug/l

RT: 7.85 min Scan# 1099

Delta R.T. 0.12 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-DUP-20190724

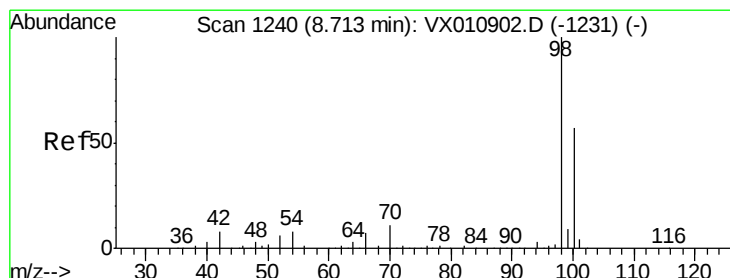
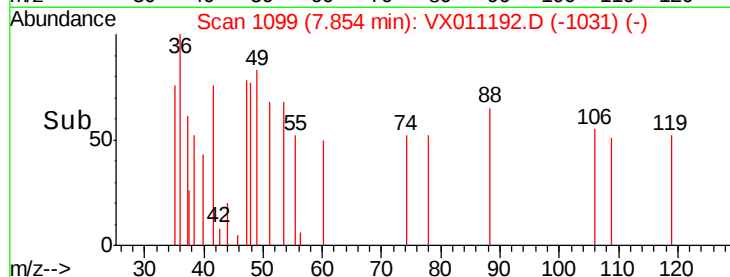
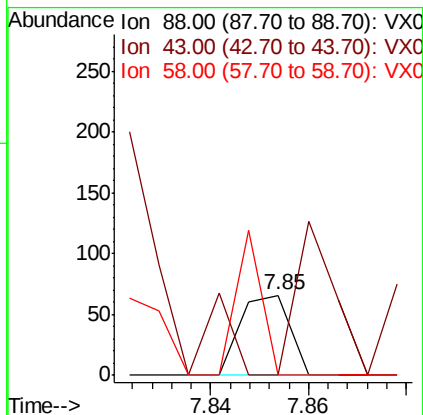
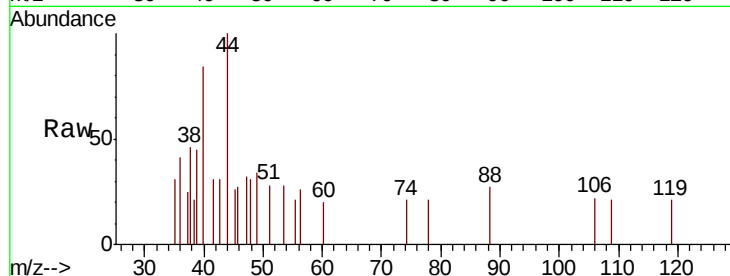
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 150.0 22.9 34.3#

58 95.7 49.8 74.8#



#50

Toluene-d8

Concen: 48.581 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011192.D

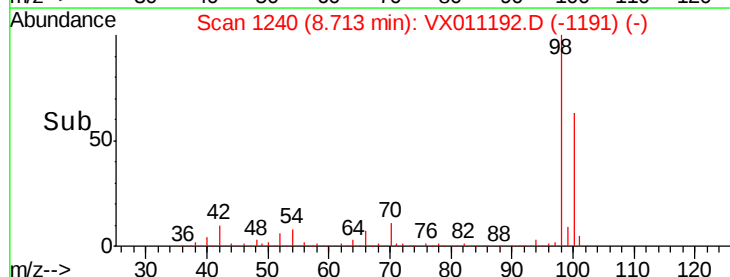
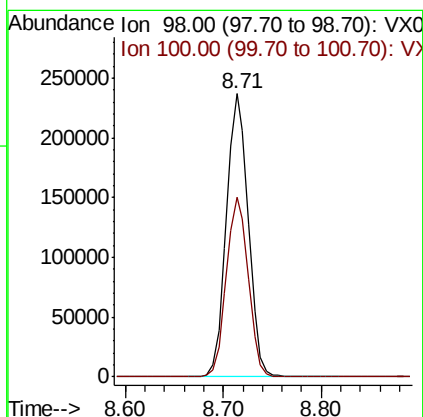
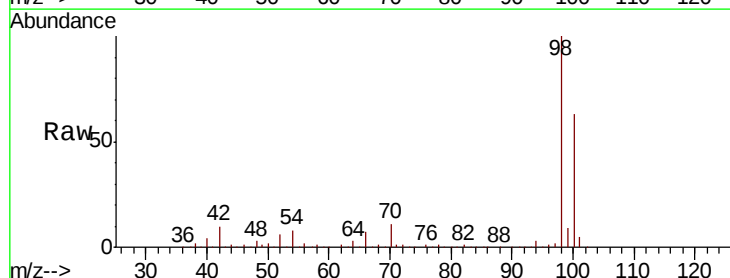
Acq: 30 Jul 2019 14:10

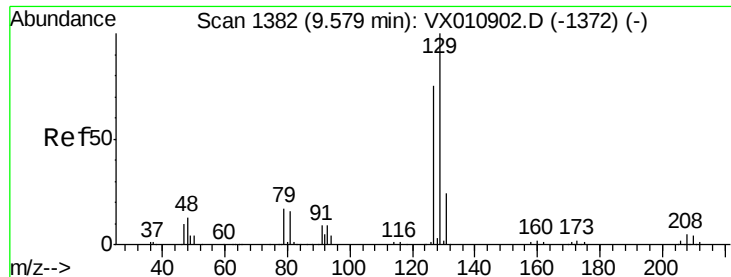
Tgt Ion: 98 Resp: 367658

Ion Ratio Lower Upper

98 100

100 63.6 50.6 75.8





#60

Dibromochloromethane

Concen: 3.057 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

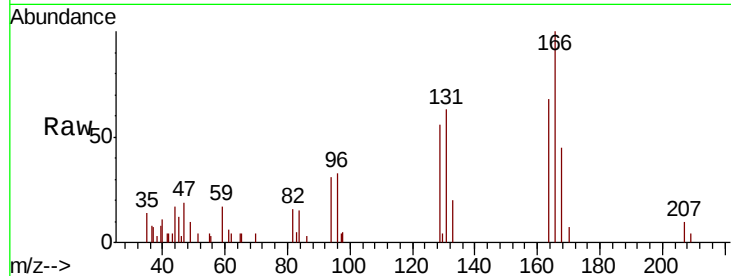
BP-VPB203-DUP-20190724

Tgt Ion: 129 Resp: 1388

Ion Ratio Lower Upper

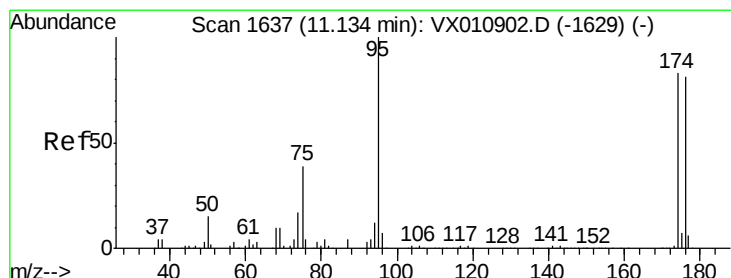
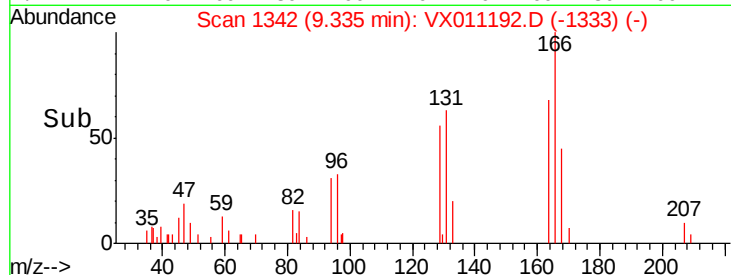
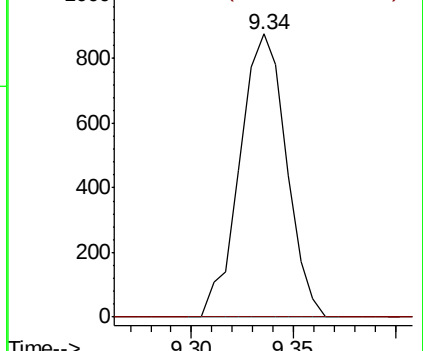
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.175 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

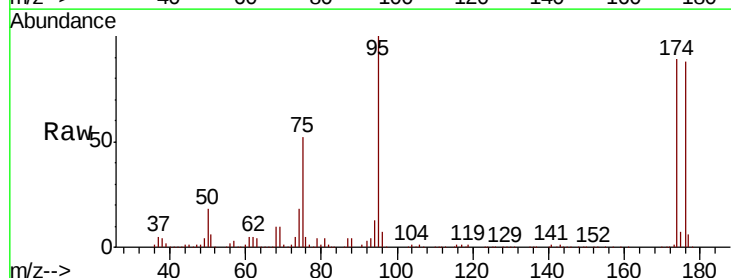
Tgt Ion: 95 Resp: 120100

Ion Ratio Lower Upper

95 100

174 90.9 0.0 180.6

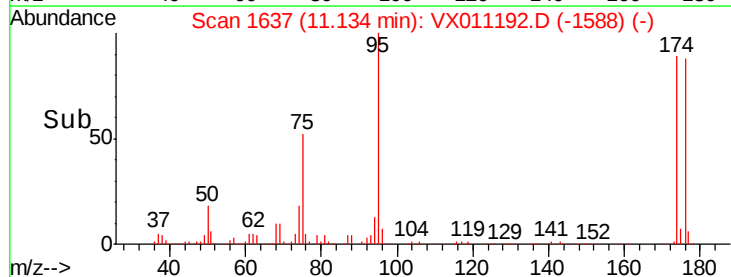
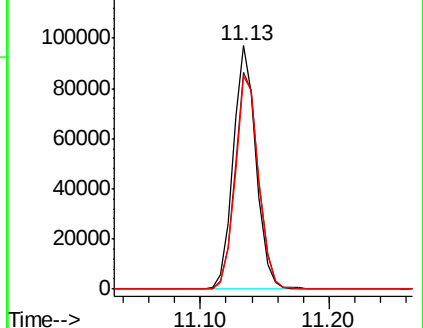
176 89.4 0.0 173.8

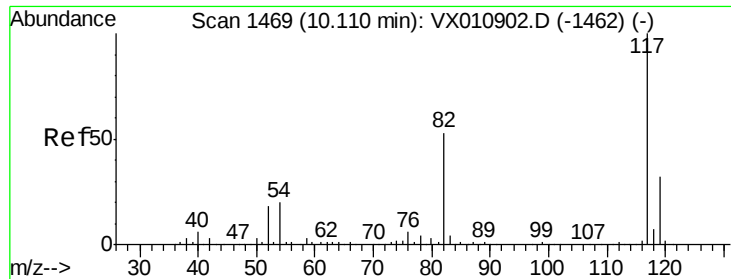


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

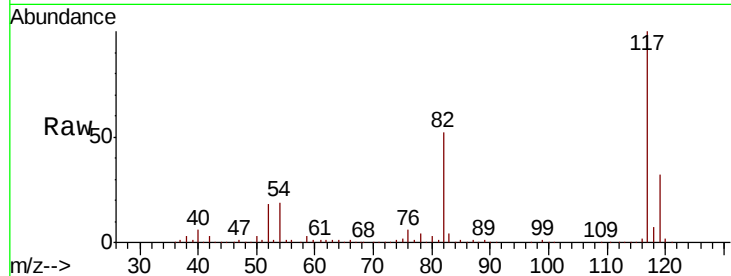




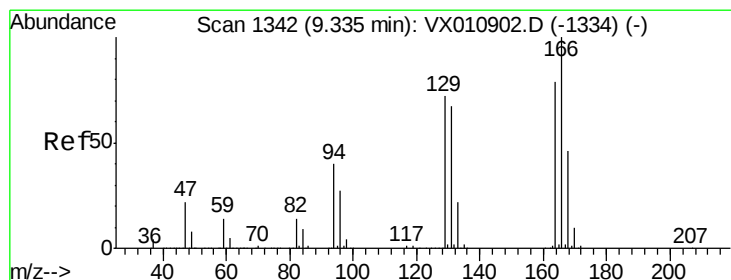
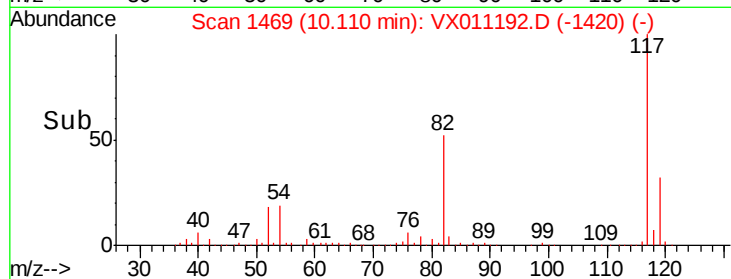
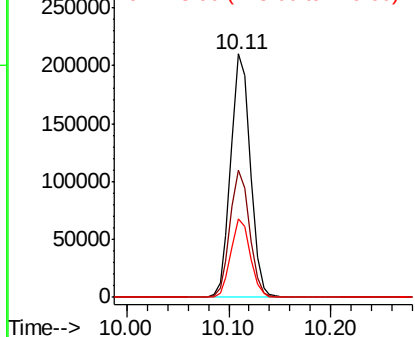
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011192.D
Acq: 30 Jul 2019 14:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-DUP-20190724

Tgt Ion:117 Resp: 278178
Ion Ratio Lower Upper
117 100
82 52.2 42.6 63.8
119 32.0 25.9 38.9

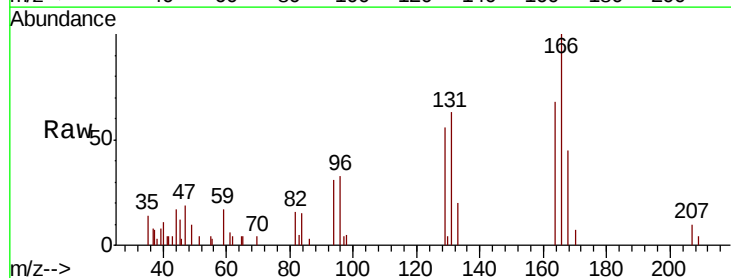


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

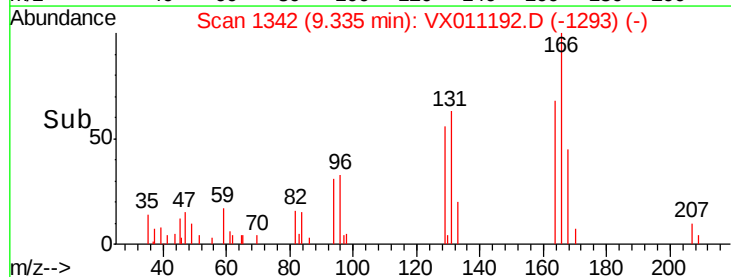
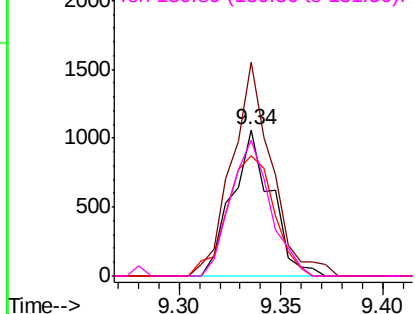


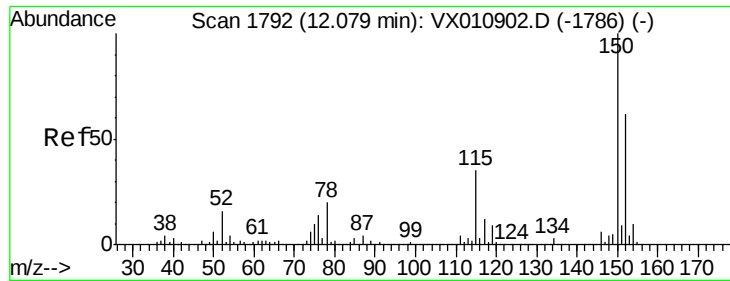
#64
Tetrachloroethene
Concen: 0.648 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX011192.D
Acq: 30 Jul 2019 14:10

Tgt Ion:164 Resp: 1417
Ion Ratio Lower Upper
164 100
166 146.1 100.8 151.2
129 82.5 72.6 109.0
131 92.5 67.7 101.5



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



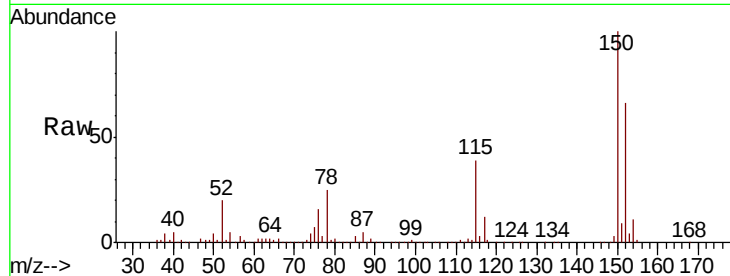


#72

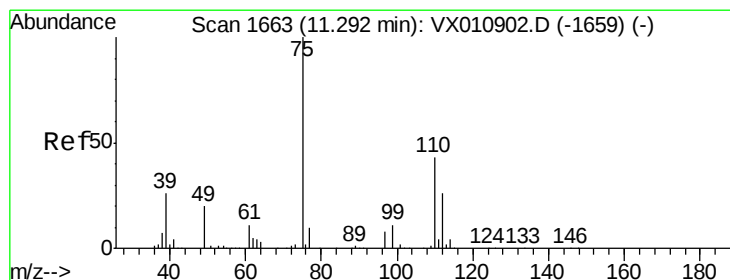
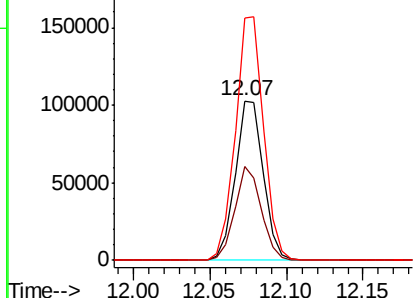
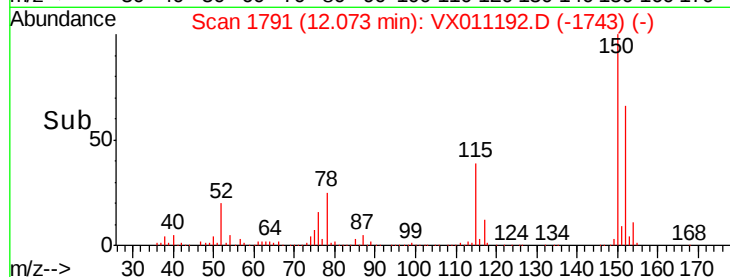
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011192.D
Acq: 30 Jul 2019 14:10

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-DUP-20190724

Tgt Ion:152 Resp: 130056
Ion Ratio Lower Upper
152 100
115 55.8 39.7 119.1
150 154.1 0.0 345.6



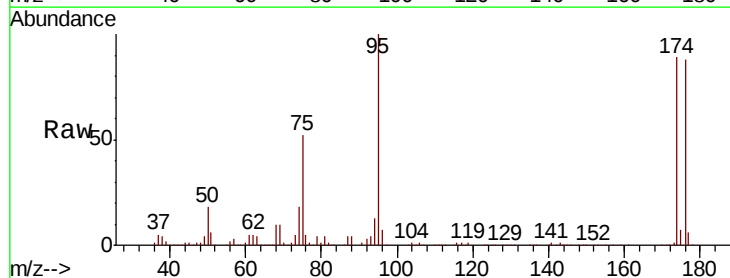
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



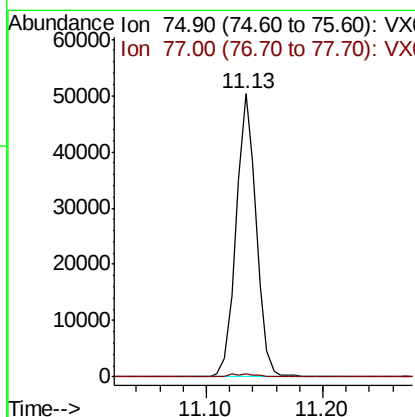
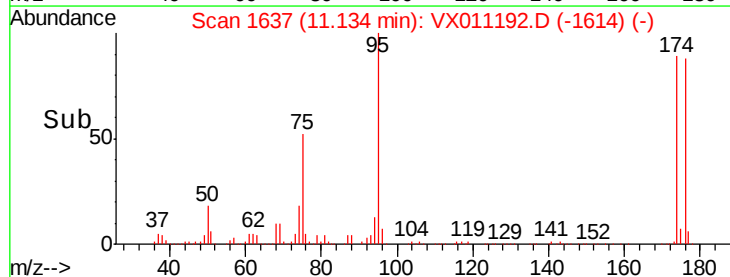
#76

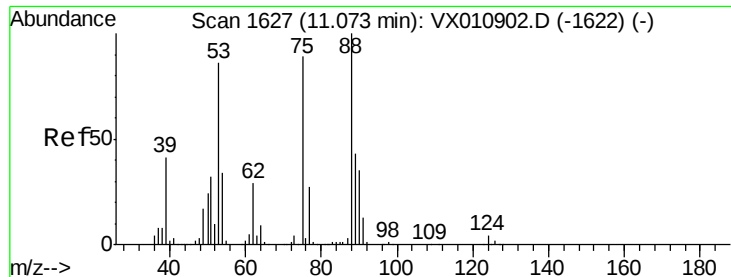
1,2,3-Trichloropropane
Concen: 25.793 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011192.D
Acq: 30 Jul 2019 14:10

Tgt Ion: 75 Resp: 60535
Ion Ratio Lower Upper
75 100
77 1.4 21.3 64.0#



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: 64.127 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011192.D

Acq: 30 Jul 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-DUP-20190724

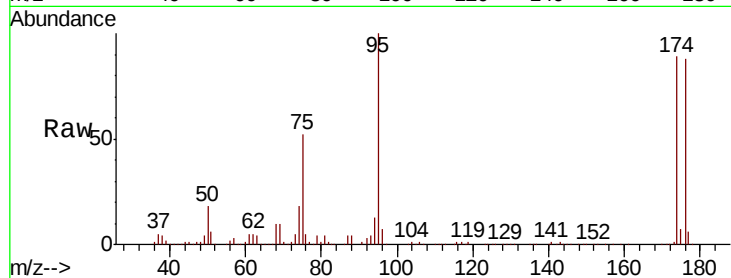
Tgt Ion: 75 Resp: 60535

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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

