

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011191.D
 Acq On : 30 Jul 2019 13:46
 Operator : JC/SP
 Sample : K4043-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-278-280

Quant Time: Aug 08 05:22:58 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	5.66	168	234781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	333170	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	298280	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141301	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	114505	45.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.68%	
35) Dibromofluoromethane	5.49	113	100319	47.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.88%	
50) Toluene-d8	8.71	98	389902	49.16	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	11.13	95	129406	44.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	88.78%	

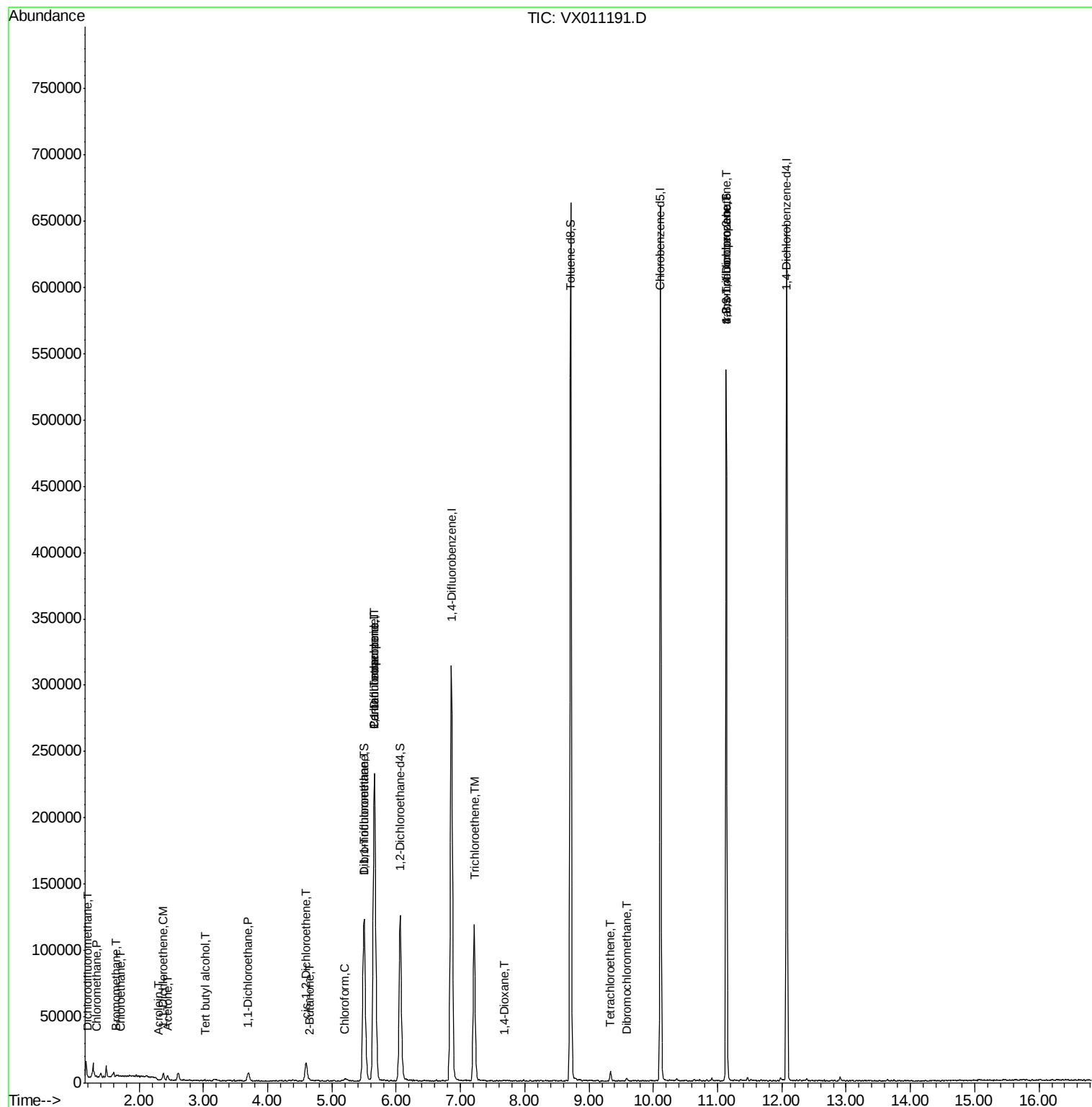
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	29	0.558	ug/l #	43
3) Chloromethane	1.33	50	806	0.373	ug/l #	87
5) Bromomethane	1.65	94	716	0.577	ug/l #	70
6) Chloroethane	1.71	64	498	0.356	ug/l	90
11) Tert butyl alcohol	3.04	59	839	1.442	ug/l #	87
12) 1,1-Dichloroethene	2.37	96	1912	0.914	ug/l #	79
13) Acrolein	2.31	56	255	0.759	ug/l #	76
16) Acetone	2.44	43	4038	3.580	ug/l	93
24) 1,1-Dichloroethane	3.70	63	6345	1.705	ug/l	97
25) 2-Butanone	4.66	43	354	0.219	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	8950	3.485	ug/l	90
30) Chloroform	5.20	83	1532	0.381	ug/l #	61
32) 1,1,1-Trichloroethane	5.50	97	1642	0.472	ug/l #	41
36) 1,1-Dichloropropene	5.66	75	15644	5.716	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21285	7.464	ug/l #	17
44) Trichloroethene	7.21	130	46641	18.796	ug/l	97
49) 1,4-Dioxane	7.68	88	19	0.303	ug/l #	1
60) Dibromochloromethane	9.59	129	53	2.547	ug/l #	11
64) Tetrachloroethene	9.34	164	1351	0.576	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	65590	25.723	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	65590	63.963	ug/l #	11

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

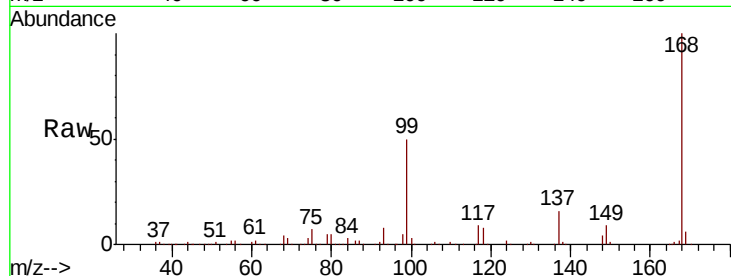
BP-VPB203-GW-278-280

Tgt Ion:168 Resp: 234781

Ion Ratio Lower Upper

168 100

99 50.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

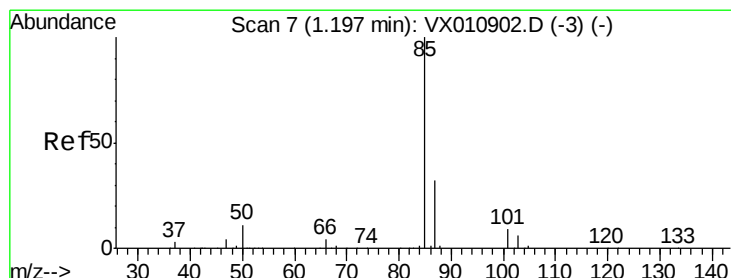
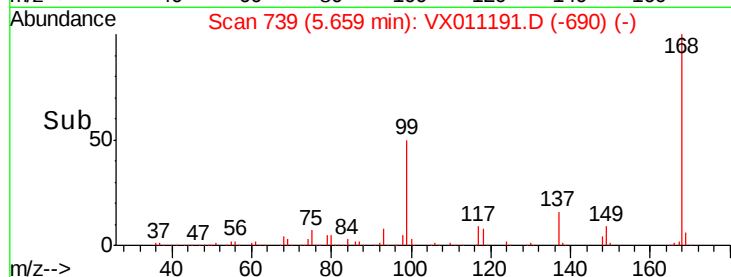
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.558 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011191.D

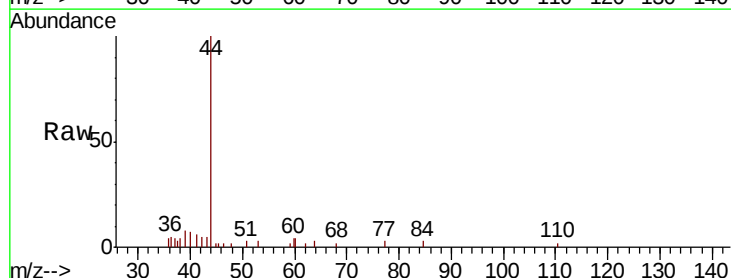
Acq: 30 Jul 2019 13:46

Tgt Ion: 85 Resp: 29

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

1.20

80

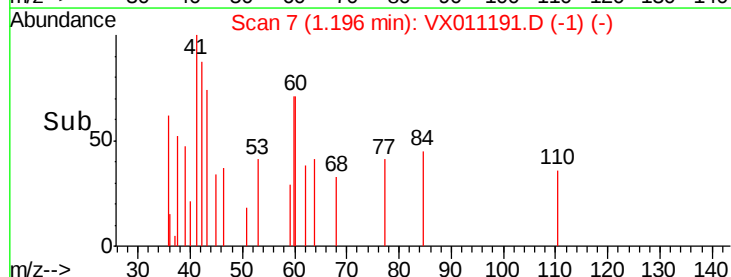
60

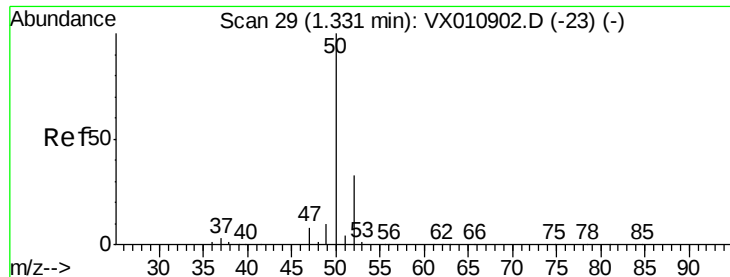
40

20

0

Time--> 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: 0.373 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

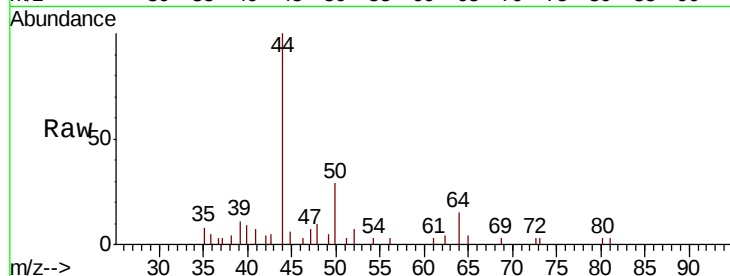
BP-VPB203-GW-278-280

Tgt Ion: 50 Resp: 806

Ion Ratio Lower Upper

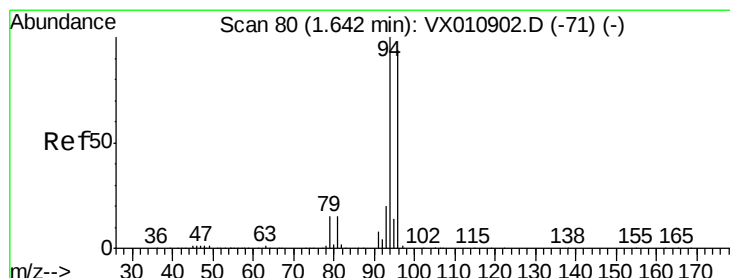
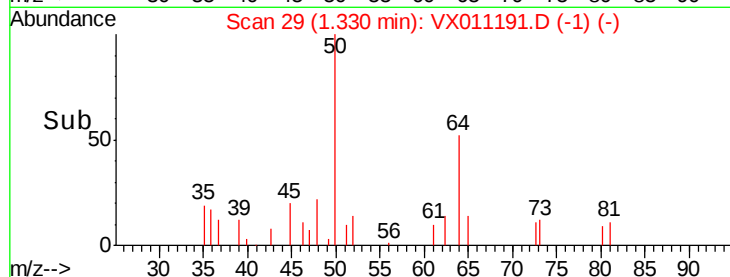
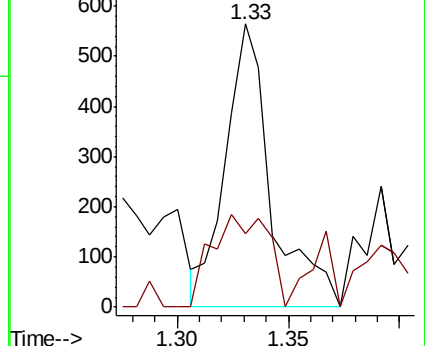
50 100

52 25.9 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: 0.577 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011191.D

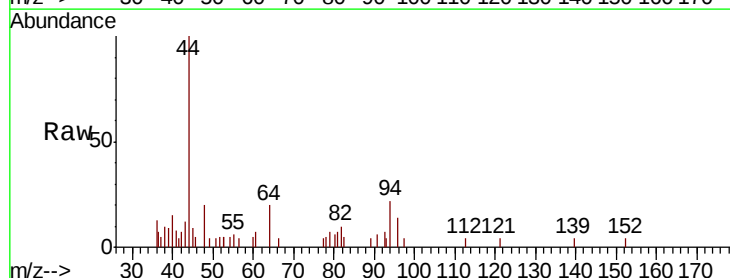
Acq: 30 Jul 2019 13:46

Tgt Ion: 94 Resp: 716

Ion Ratio Lower Upper

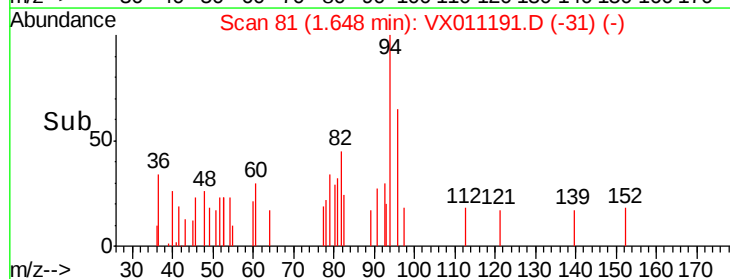
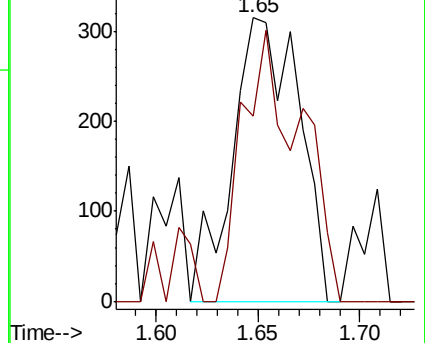
94 100

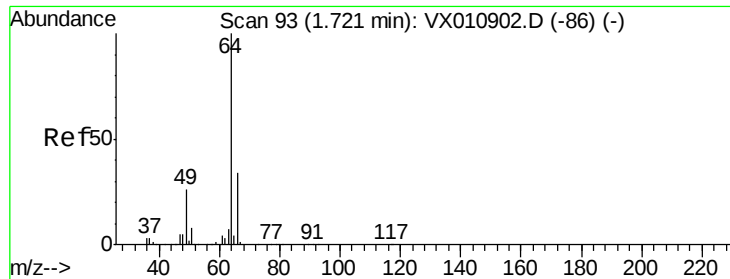
96 65.4 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.356 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.01 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

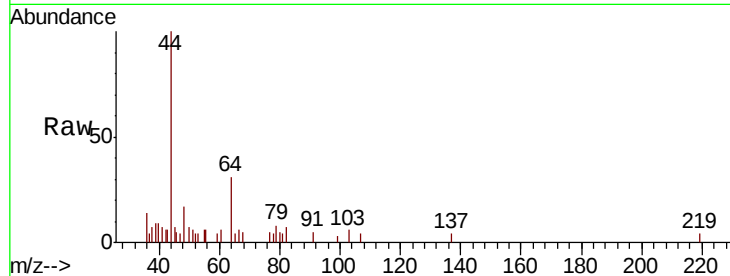
BP-VPB203-GW-278-280

Tgt Ion: 64 Resp: 498

Ion Ratio Lower Upper

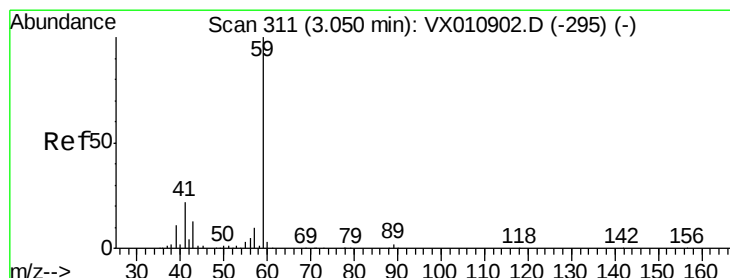
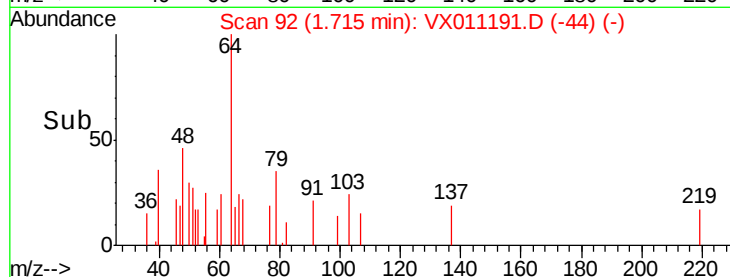
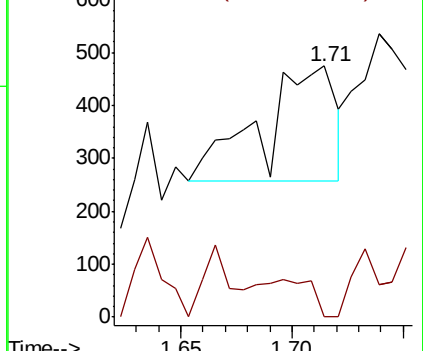
64 100

66 39.6 27.0 40.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 1.442 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX011191.D

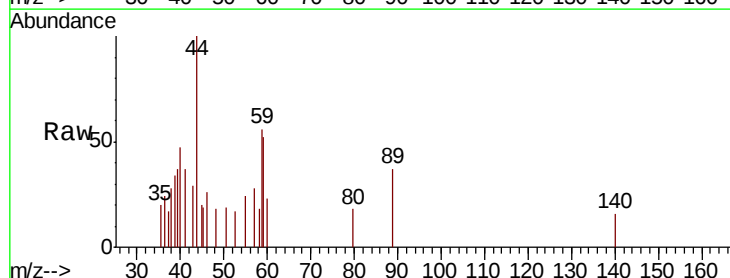
Acq: 30 Jul 2019 13:46

Tgt Ion: 59 Resp: 839

Ion Ratio Lower Upper

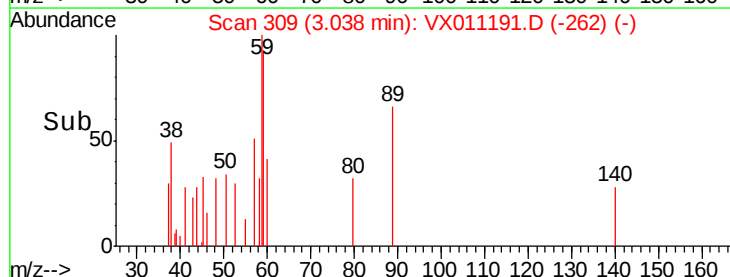
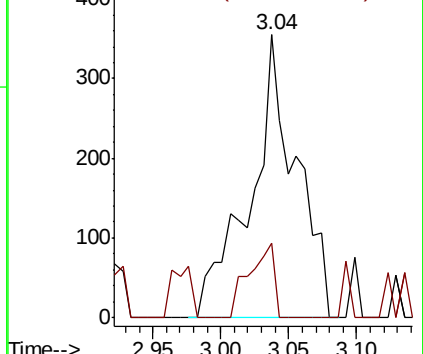
59 100

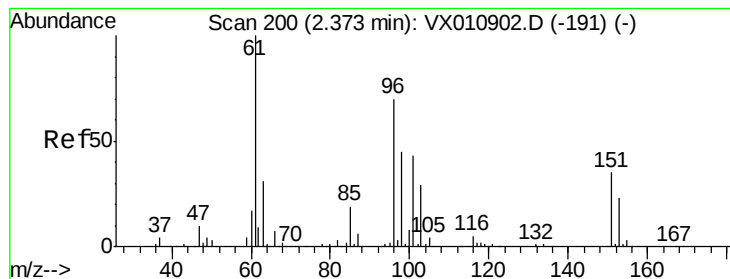
57 14.7 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.914 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-278-280

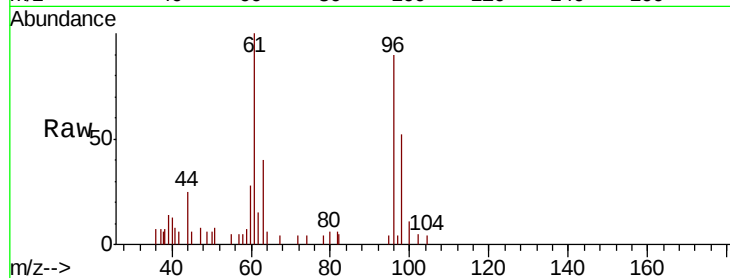
Tgt Ion: 96 Resp: 1912

Ion Ratio Lower Upper

96 100

61 111.1 115.0 172.4#

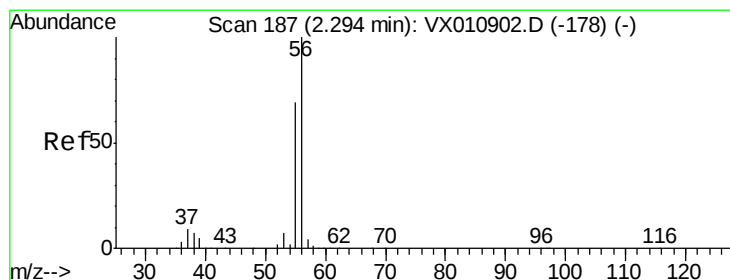
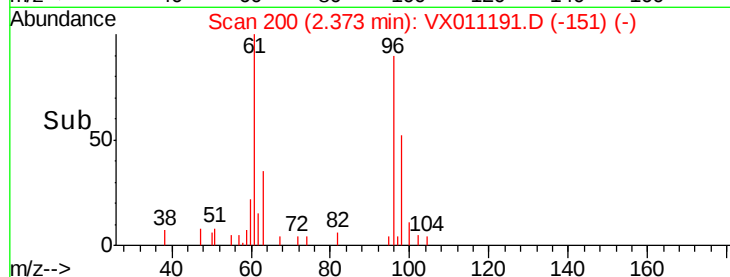
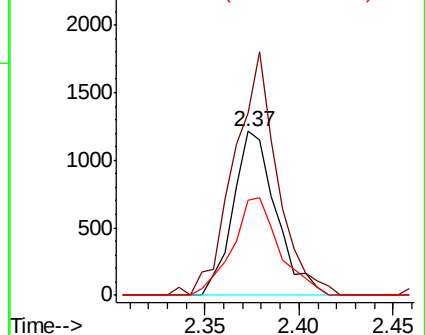
98 58.3 52.2 78.2



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



#13

Acrolein

Concen: 0.759 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX011191.D

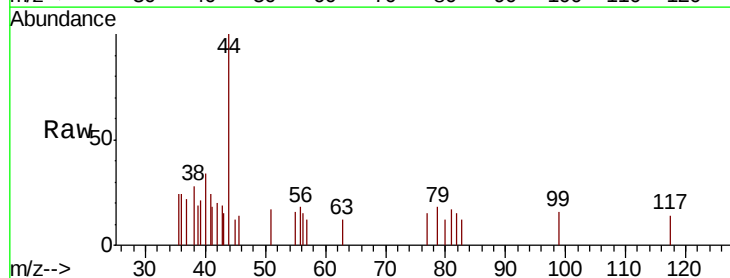
Acq: 30 Jul 2019 13:46

Tgt Ion: 56 Resp: 255

Ion Ratio Lower Upper

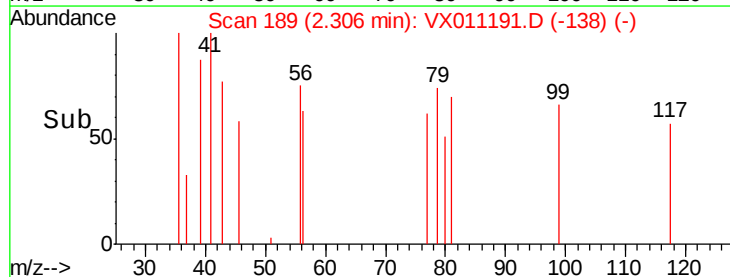
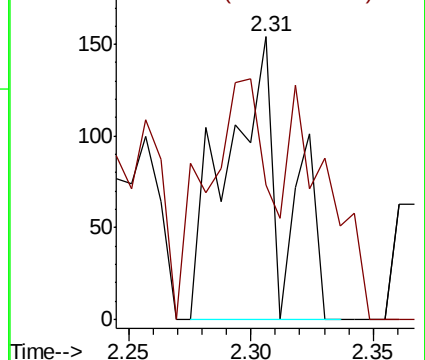
56 100

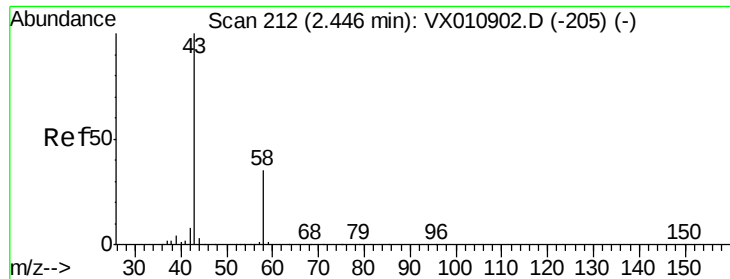
55 89.4 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 3.580 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

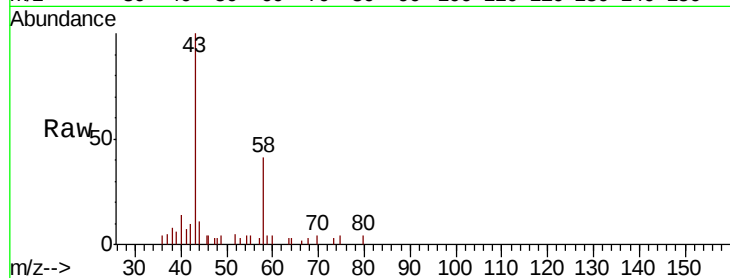
BP-VPB203-GW-278-280

Tgt Ion: 43 Resp: 4038

Ion Ratio Lower Upper

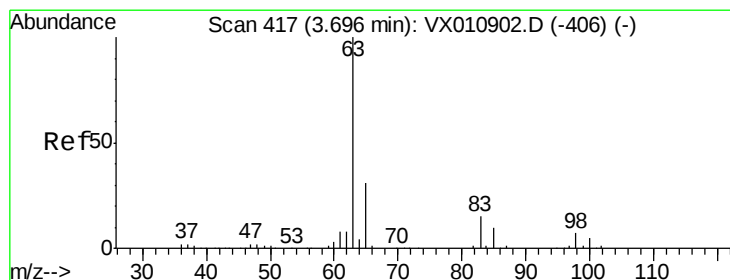
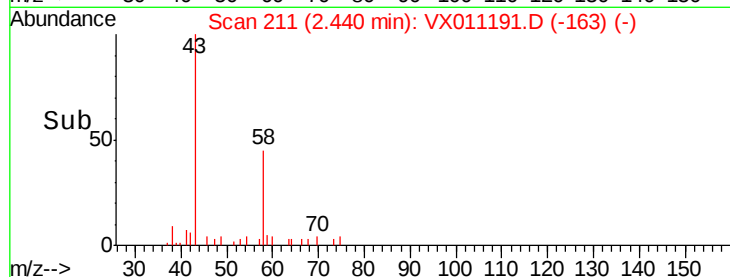
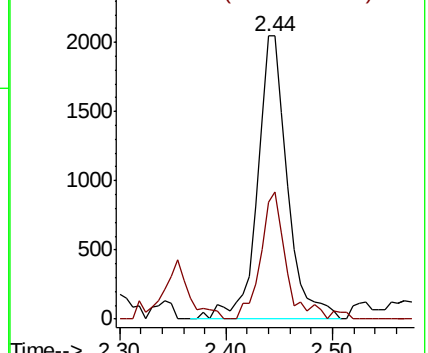
43 100

58 38.6 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: 1.705 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

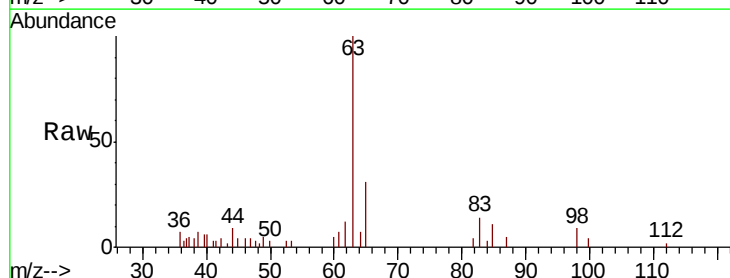
Tgt Ion: 63 Resp: 6345

Ion Ratio Lower Upper

63 100

98 8.8 3.6 10.9

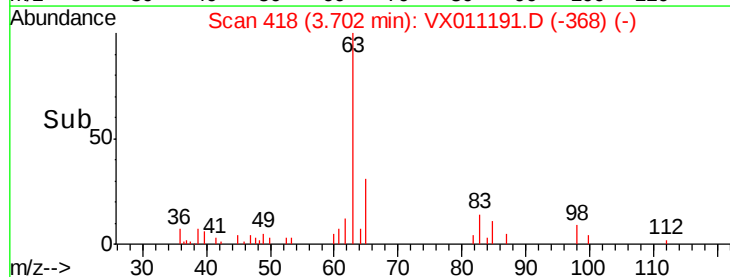
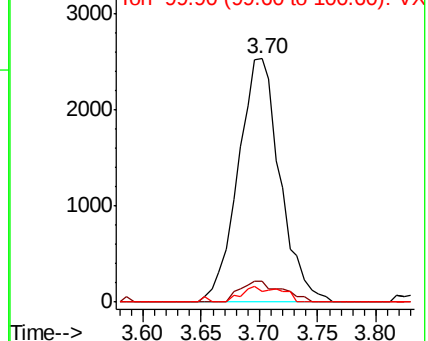
100 4.4 2.4 7.2

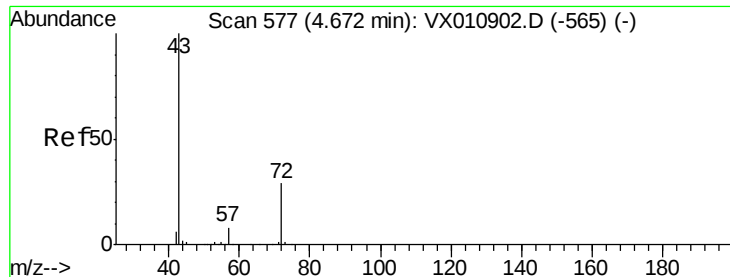


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 0.219 ug/l

RT: 4.66 min Scan# 575

Delta R.T. -0.01 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

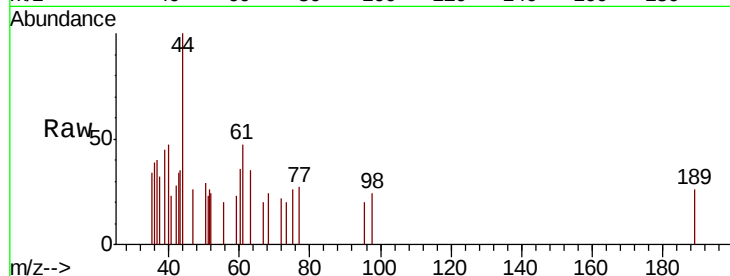
BP-VPB203-GW-278-280

Tgt Ion: 43 Resp: 354

Ion Ratio Lower Upper

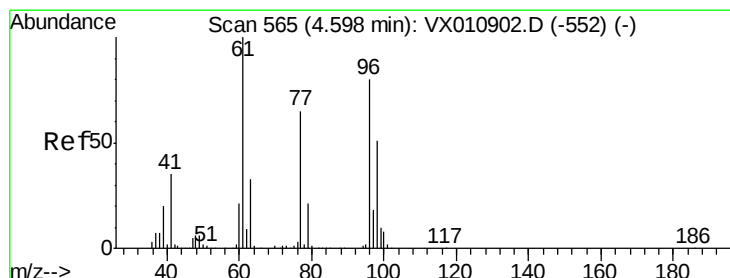
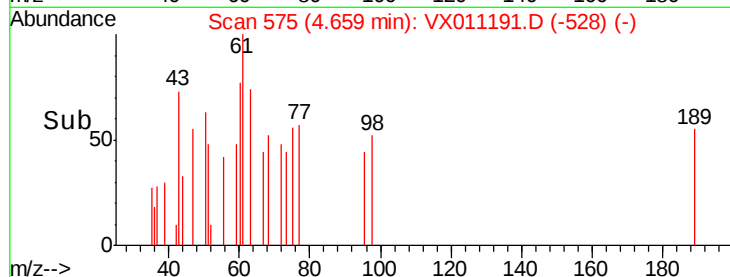
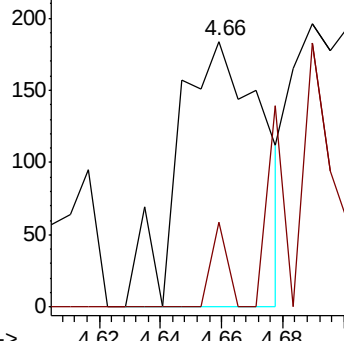
43 100

72 32.1 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: 3.485 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

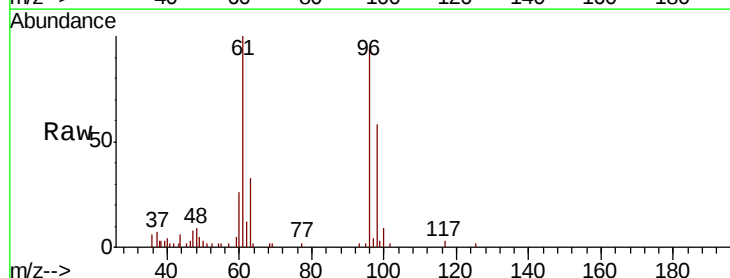
Tgt Ion: 96 Resp: 8950

Ion Ratio Lower Upper

96 100

61 116.5 0.0 269.0

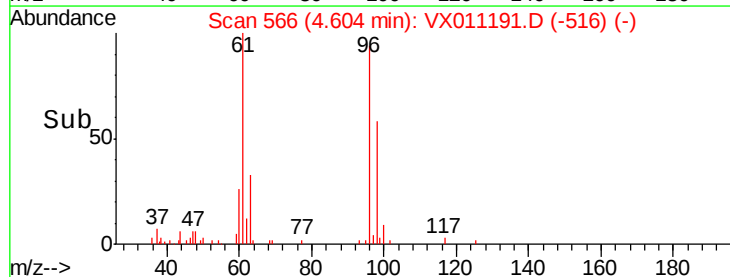
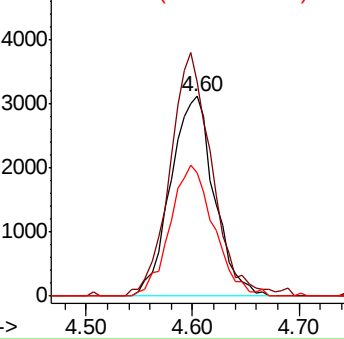
98 65.7 0.0 131.4

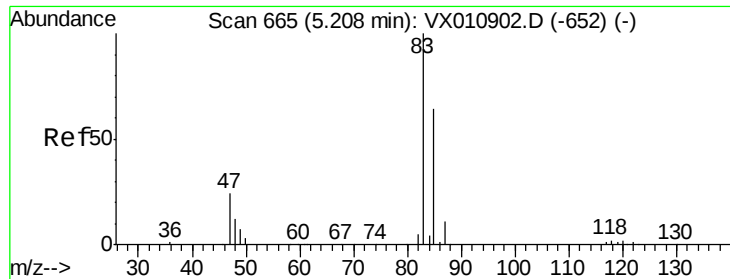


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

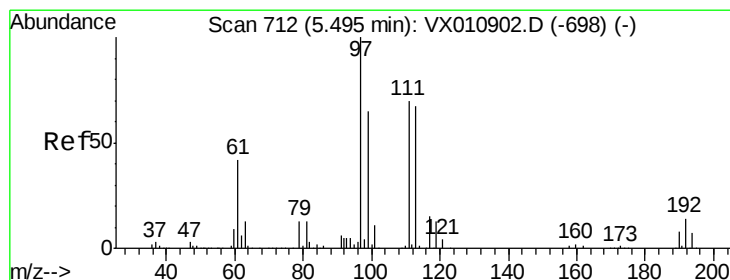
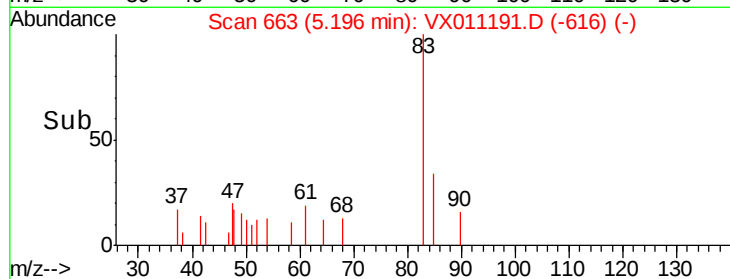
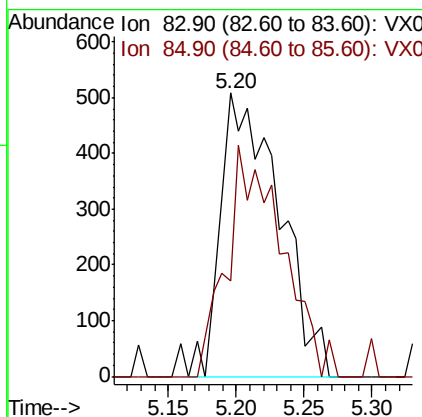
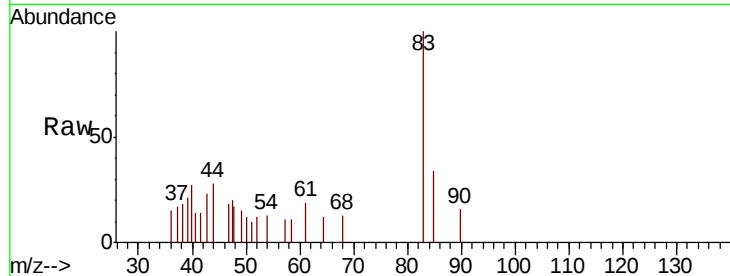




#30
Chloroform
Concen: 0.381 ug/l
RT: 5.20 min Scan# 663
Delta R.T. -0.01 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

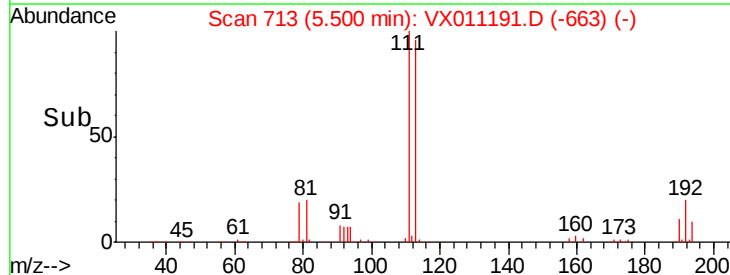
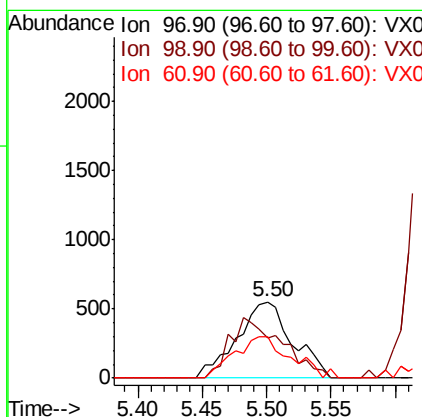
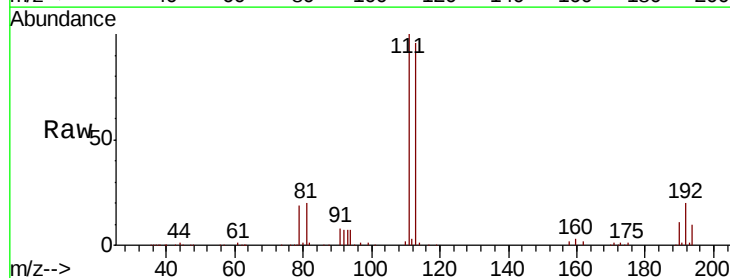
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-278-280

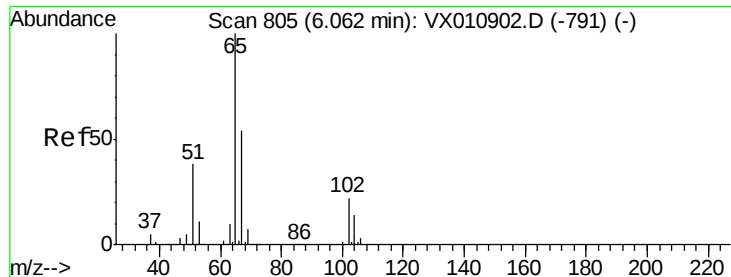
Tgt Ion: 83 Resp: 1532
Ion Ratio Lower Upper
83 100
85 33.7 51.4 77.0#



#32
1,1,1-Trichloroethane
Concen: 0.472 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

Tgt Ion: 97 Resp: 1642
Ion Ratio Lower Upper
97 100
99 0.0 51.4 77.0#
61 55.3 33.0 49.6#





#33

1,2-Dichloroethane-d4

Concen: 45.844 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

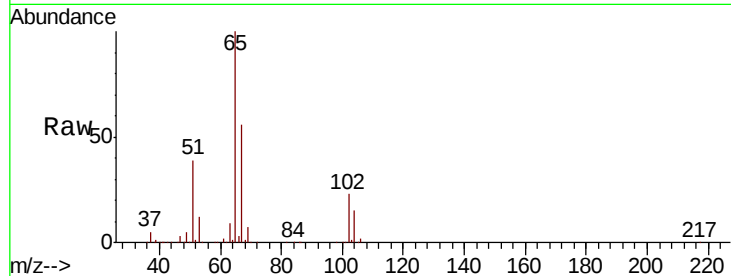
BP-VPB203-GW-278-280

Tgt Ion: 65 Resp: 114505

Ion Ratio Lower Upper

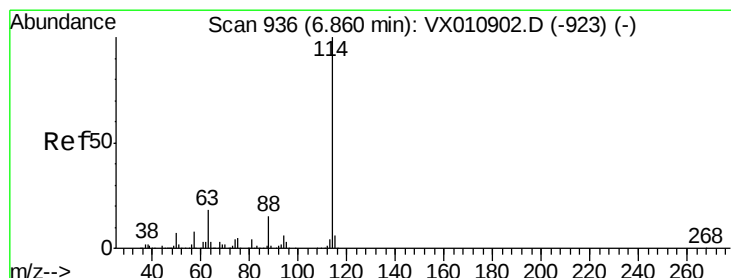
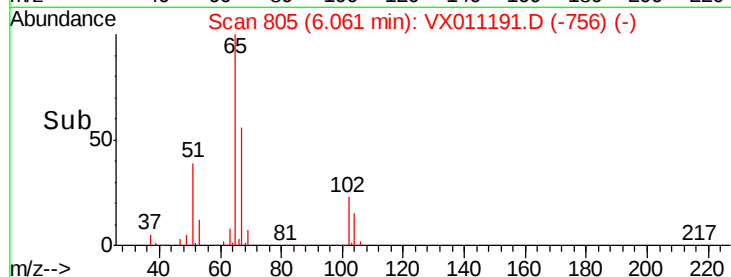
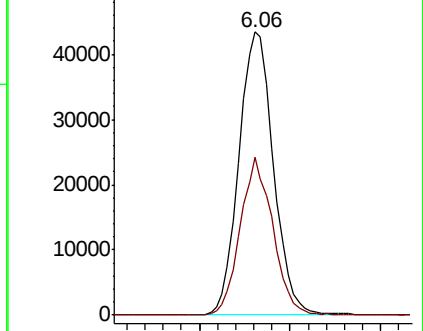
65 100

67 52.6 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

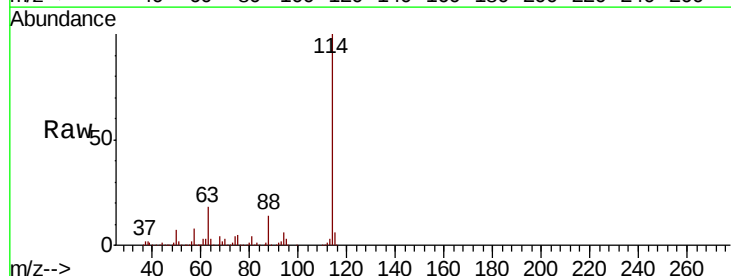
Tgt Ion: 114 Resp: 333170

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

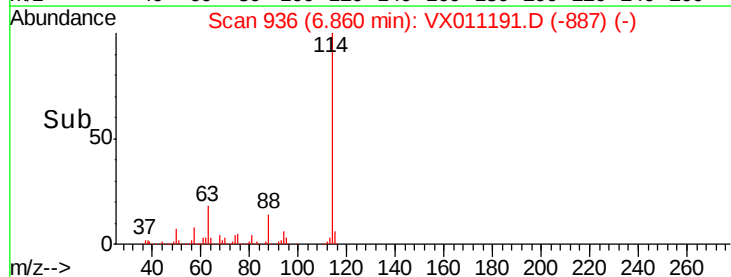
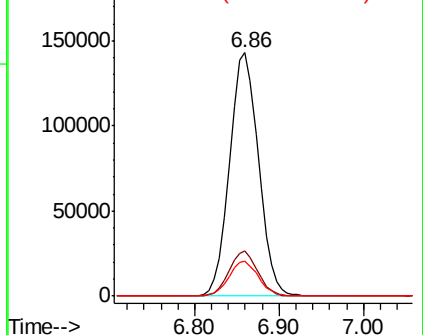
88 14.2 0.0 29.8

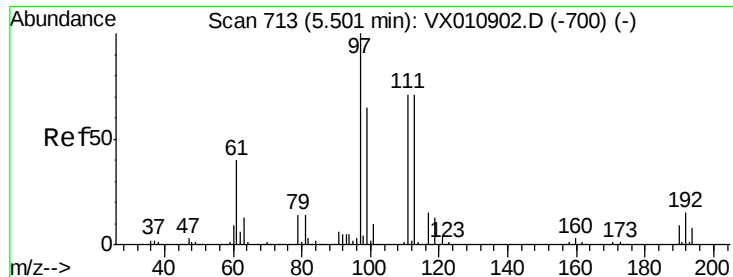


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

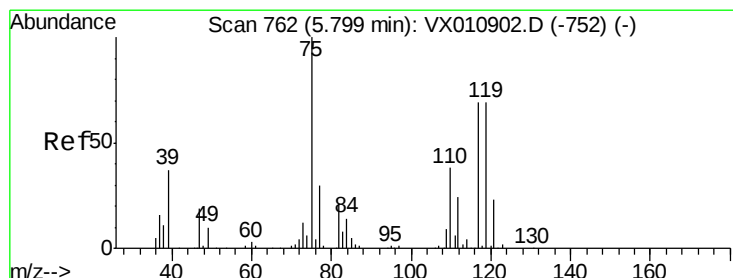
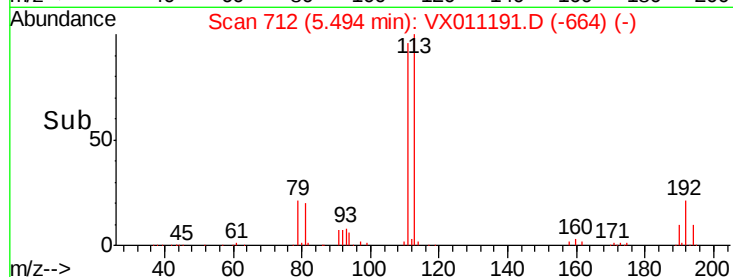
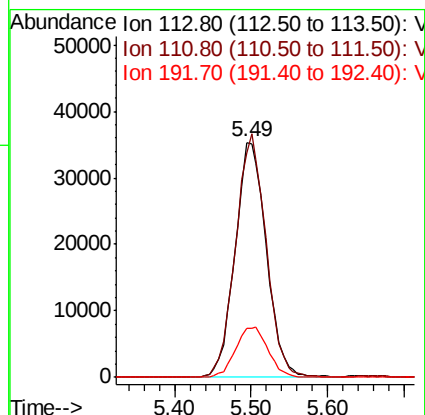
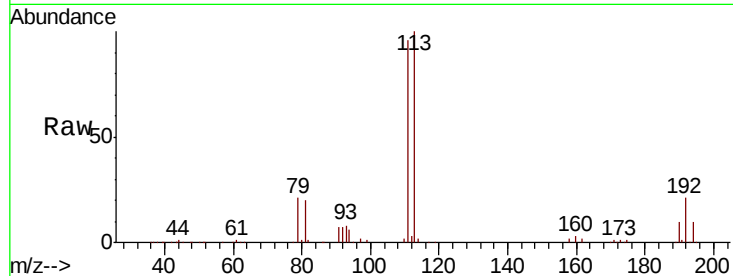




#35
 Dibromofluoromethane
 Concen: 47.439 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX011191.D
 Acq: 30 Jul 2019 13:46

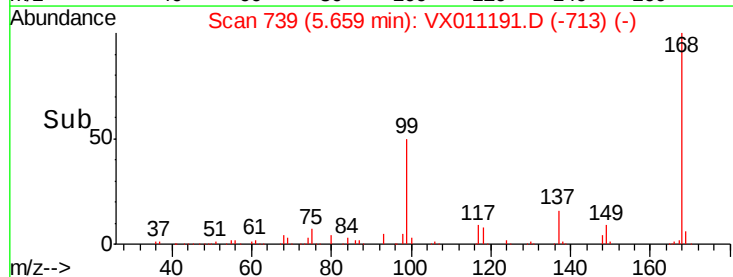
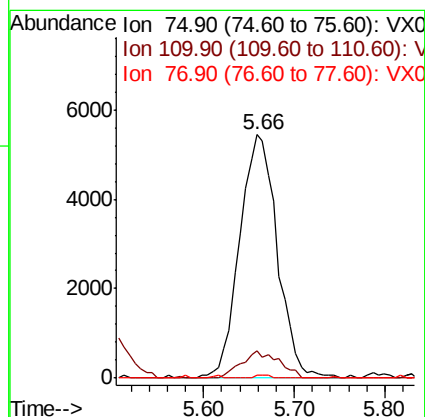
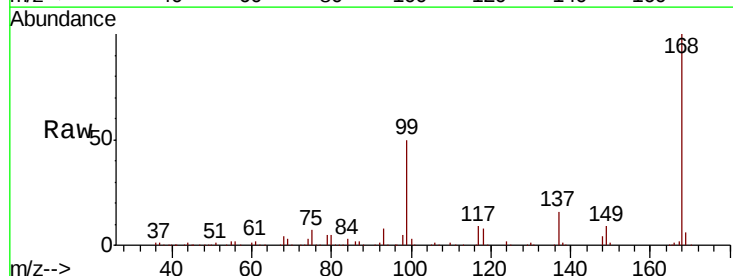
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-278-280

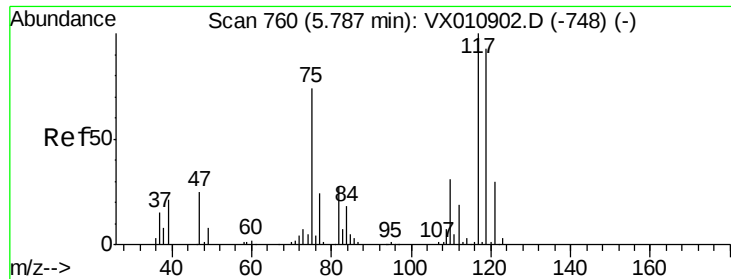
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.3	123.5
192	22.2	17.4	26.2



#36
 1,1-Dichloropropene
 Concen: 5.716 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011191.D
 Acq: 30 Jul 2019 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	19.9	59.7#
77	0.5	25.0	37.4#

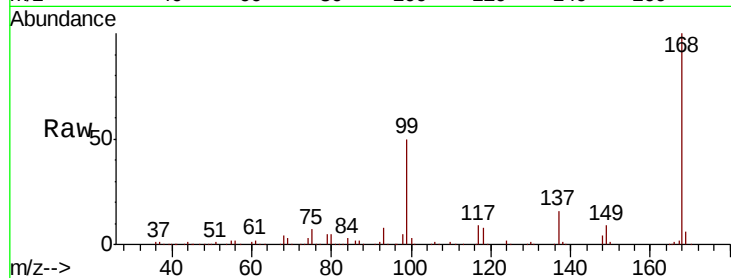




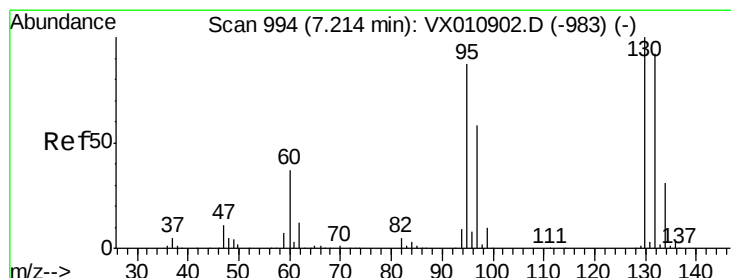
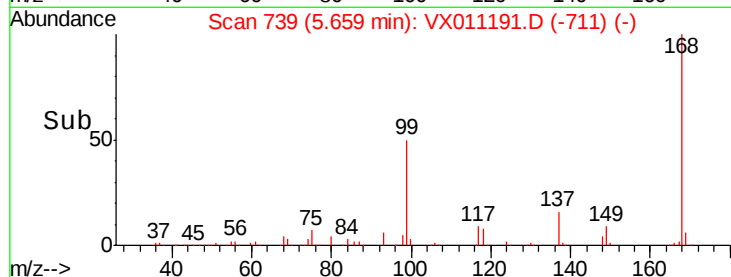
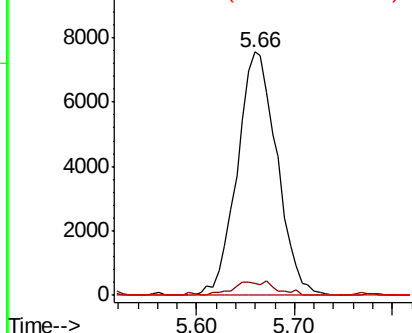
#38
Carbon Tetrachloride
Concen: 7.464 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-278-280

Tgt Ion:117 Resp: 21285
Ion Ratio Lower Upper
117 100
119 5.0 74.2 111.2#
121 0.0 24.2 36.2#

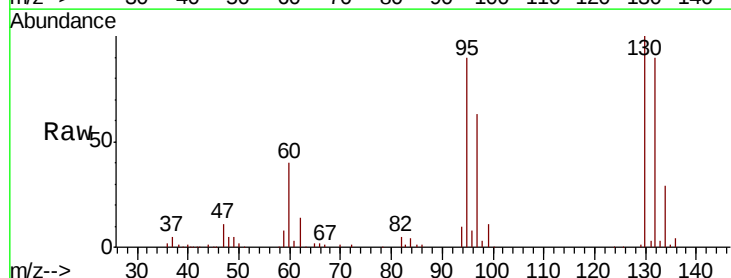


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

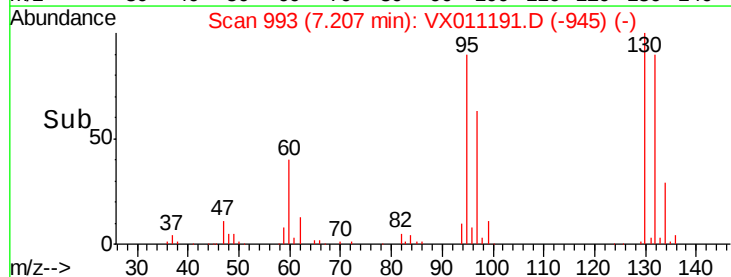
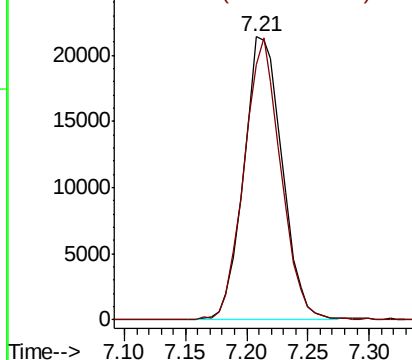


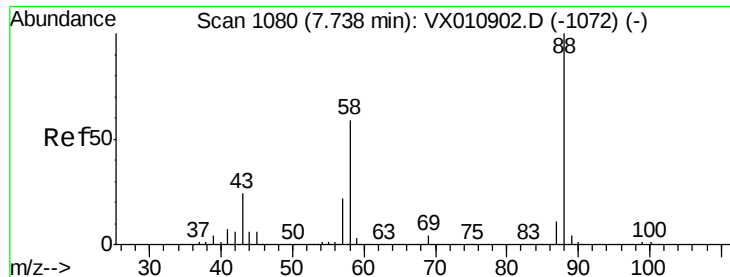
#44
Trichloroethene
Concen: 18.796 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.01 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

Tgt Ion:130 Resp: 46641
Ion Ratio Lower Upper
130 100
95 90.2 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

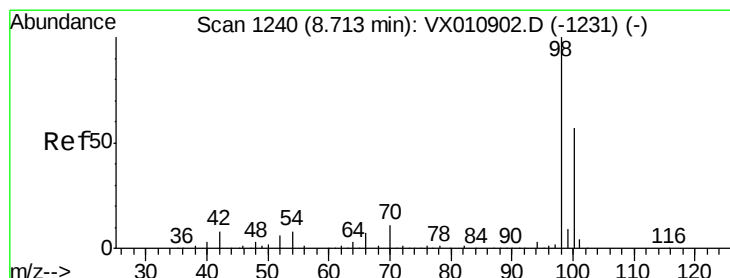
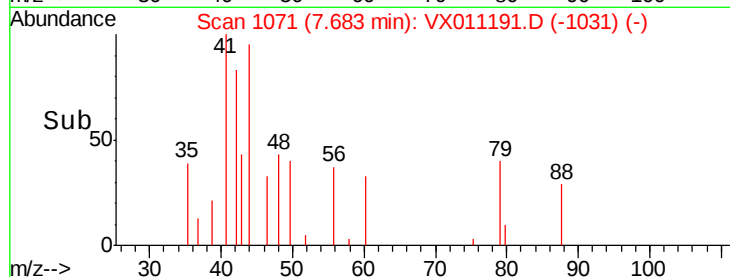
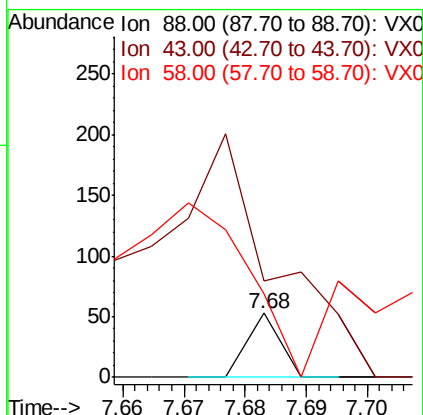
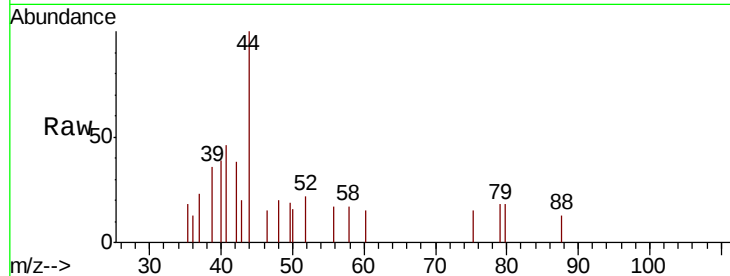




#49
1,4-Dioxane
Concen: 0.303 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.06 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

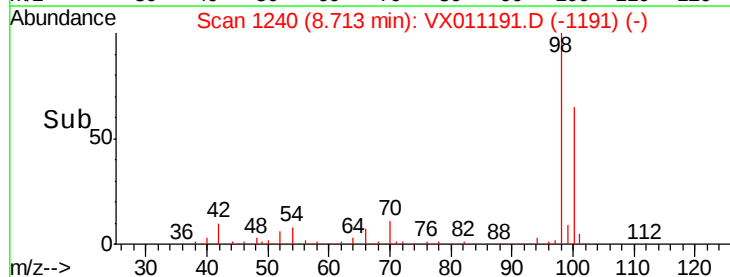
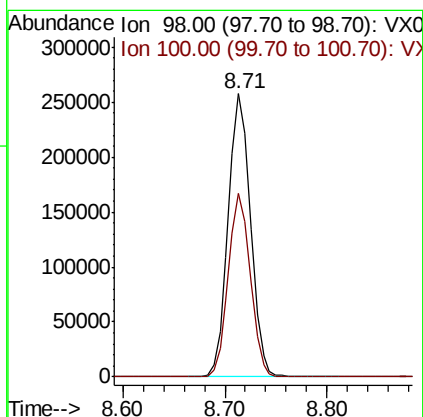
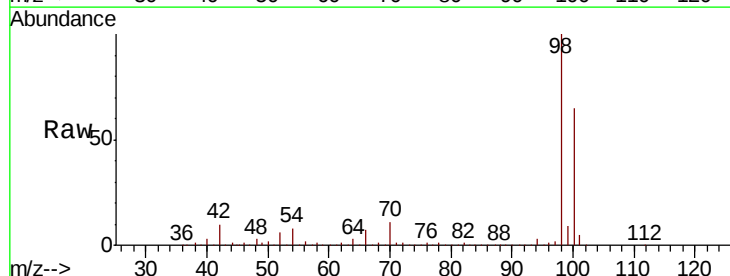
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-278-280

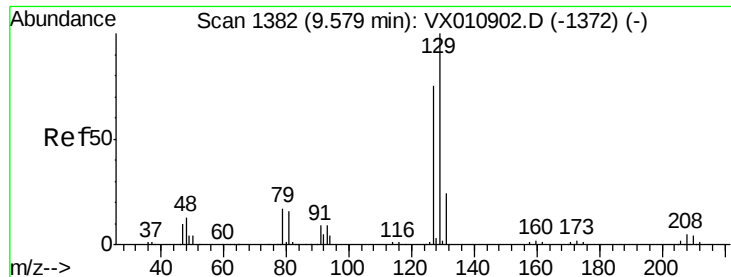
Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1057.9 22.9 34.3#
58 1189.5 49.8 74.8#



#50
Toluene-d8
Concen: 49.159 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

Tgt Ion: 98 Resp: 389902
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8





#60

Dibromochloromethane

Concen: 2.547 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

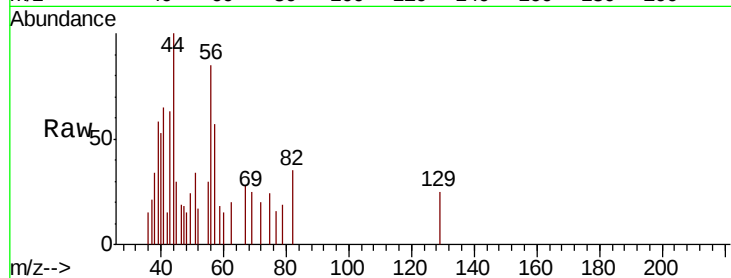
BP-VPB203-GW-278-280

Tgt Ion:129 Resp: 53

Ion Ratio Lower Upper

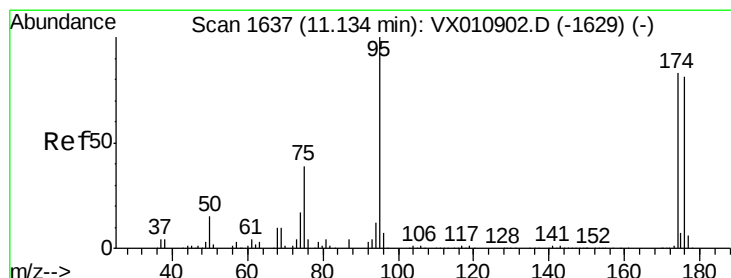
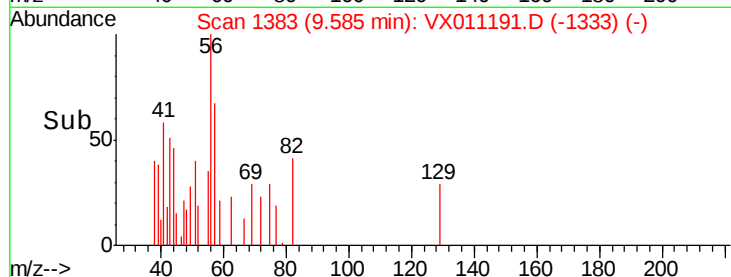
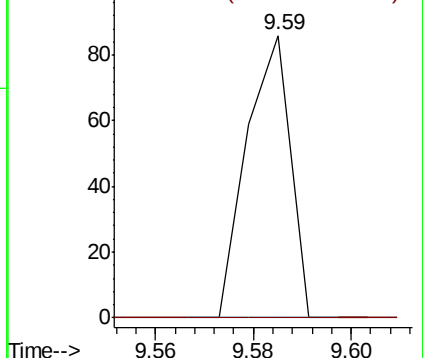
129 100

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: 44.388 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

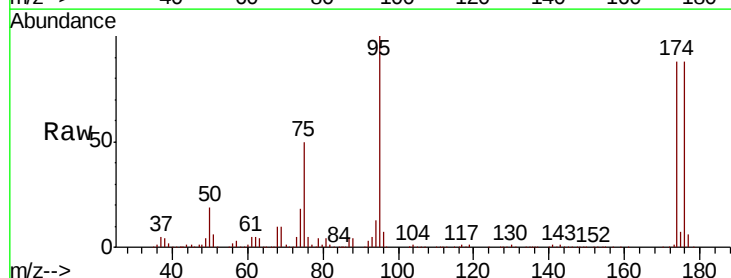
Tgt Ion: 95 Resp: 129406

Ion Ratio Lower Upper

95 100

174 91.8 0.0 180.6

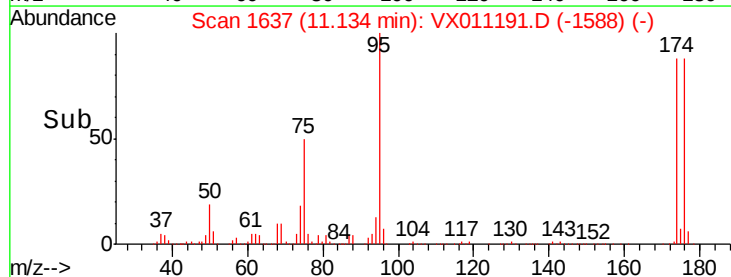
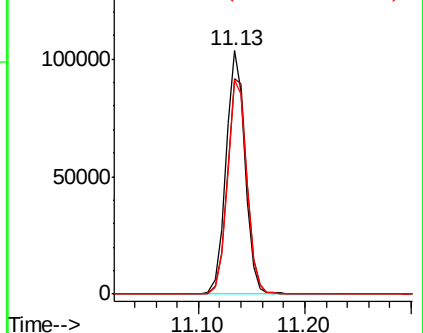
176 89.2 0.0 173.8

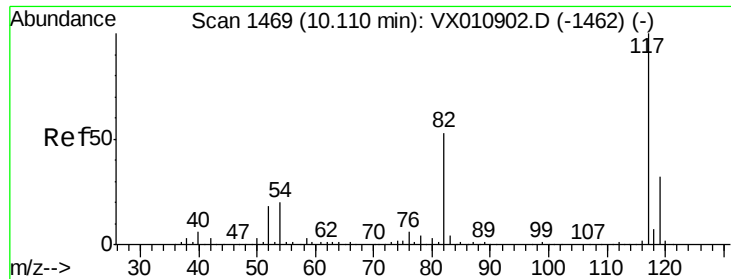


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

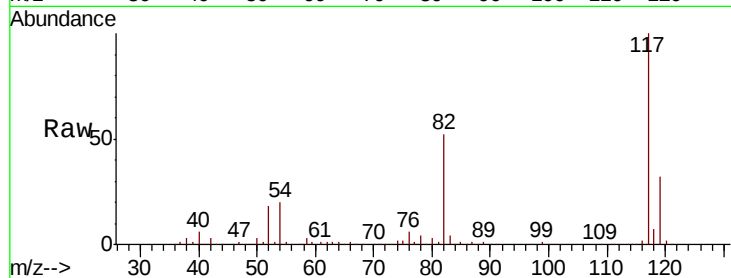




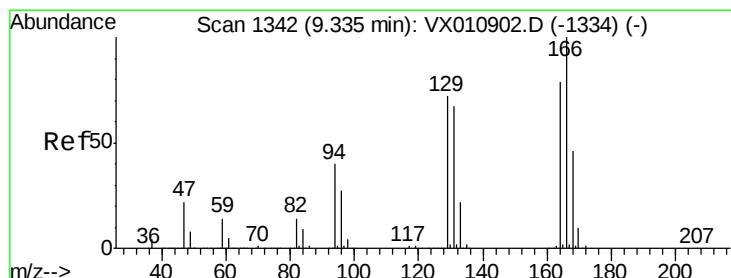
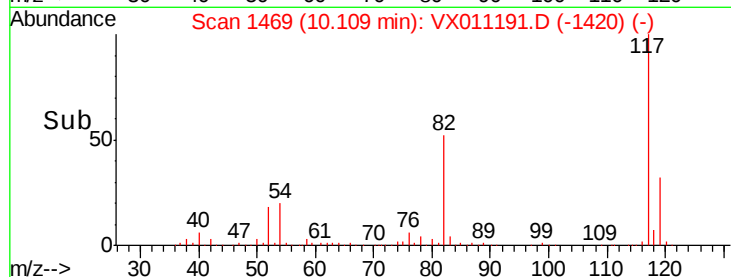
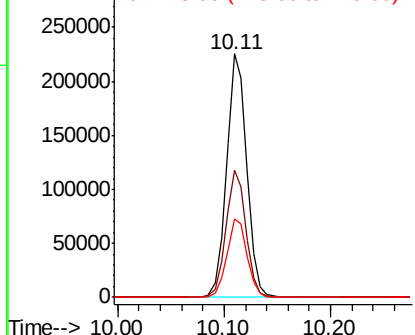
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-278-280

Tgt Ion:117 Resp: 298280
Ion Ratio Lower Upper
117 100
82 52.3 42.6 63.8
119 32.5 25.9 38.9

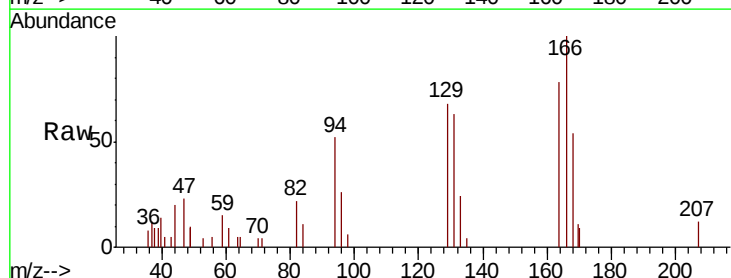


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

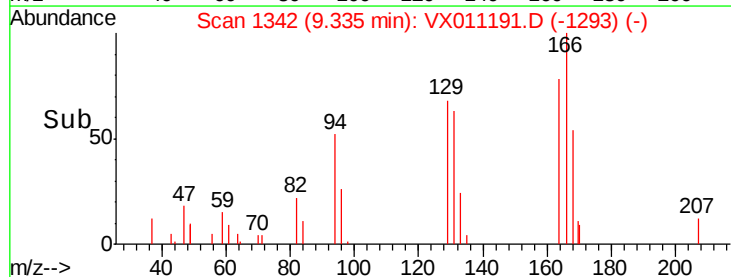
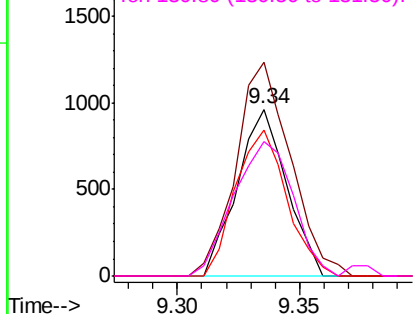


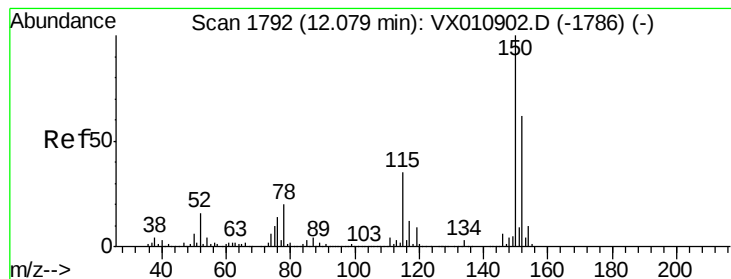
#64
Tetrachloroethene
Concen: 0.576 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX011191.D
Acq: 30 Jul 2019 13:46

Tgt Ion:164 Resp: 1351
Ion Ratio Lower Upper
164 100
166 128.1 100.8 151.2
129 87.3 72.6 109.0
131 80.4 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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-278-280

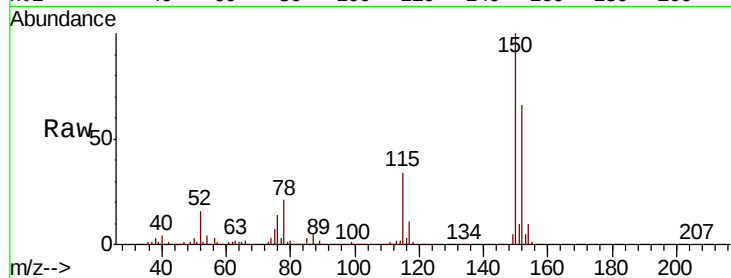
Tgt Ion:152 Resp: 141301

Ion Ratio Lower Upper

152 100

115 54.2 39.7 119.1

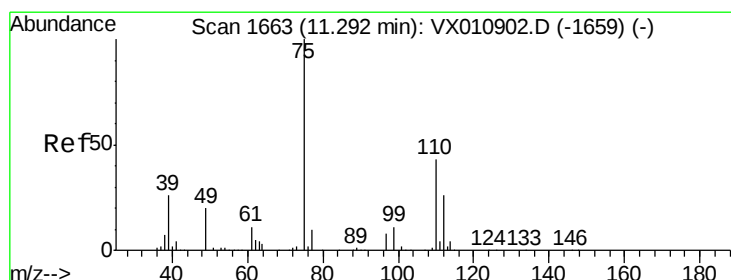
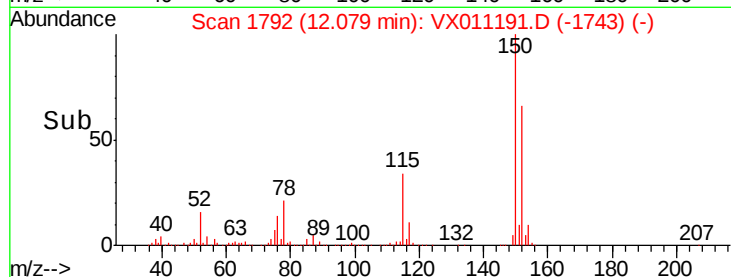
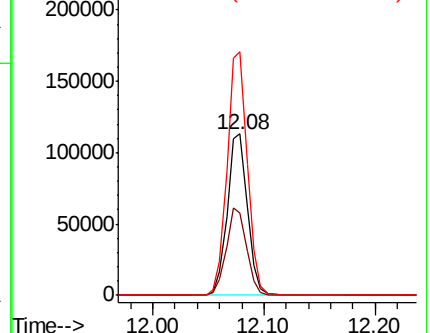
150 152.0 0.0 345.6



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: 25.723 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011191.D

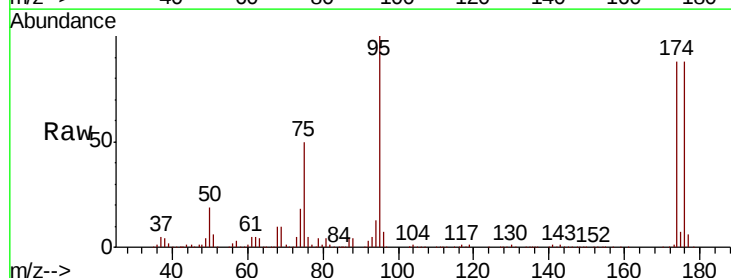
Acq: 30 Jul 2019 13:46

Tgt Ion: 75 Resp: 65590

Ion Ratio Lower Upper

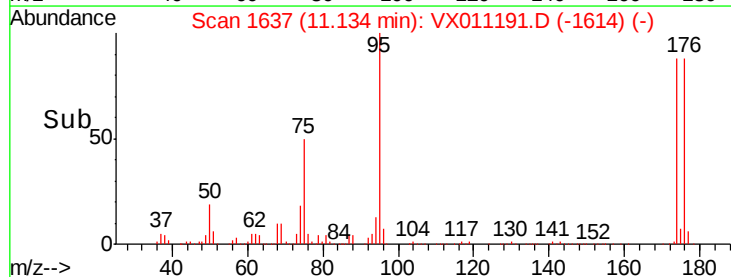
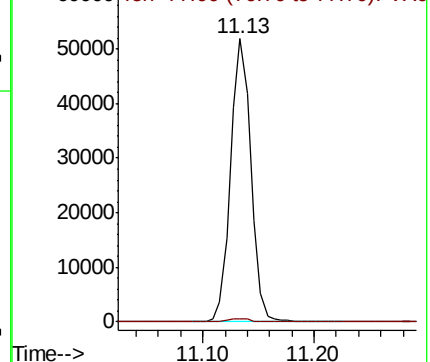
75 100

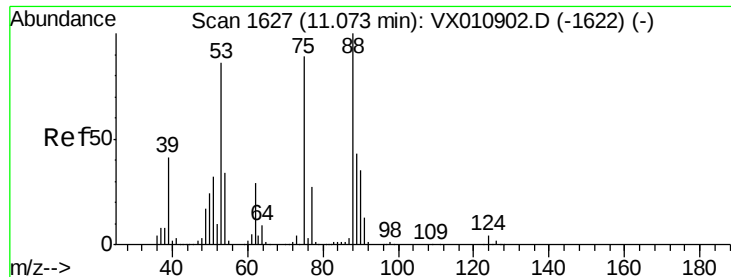
77 1.4 21.3 64.0#



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: 63.963 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011191.D

Acq: 30 Jul 2019 13:46

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-278-280

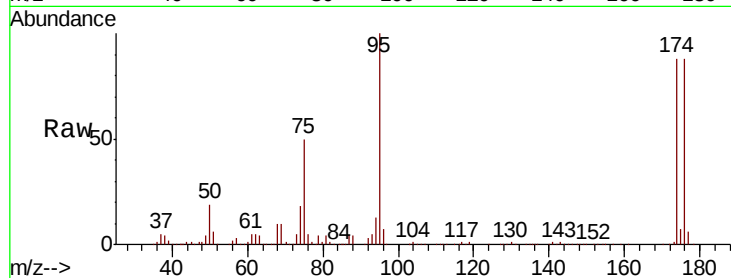
Tgt Ion: 75 Resp: 65590

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

