

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011190.D
 Acq On : 30 Jul 2019 13:23
 Operator : JC/SP
 Sample : K4043-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-243-245

Quant Time: Aug 08 05:22:36 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	227273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	326670	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	288601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136524	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	112447	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
35) Dibromofluoromethane	5.50	113	98389	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
50) Toluene-d8	8.71	98	382647	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	11.13	95	125092	43.76	ug/l	0.00
Spiked Amount			Recovery	=	87.52%	

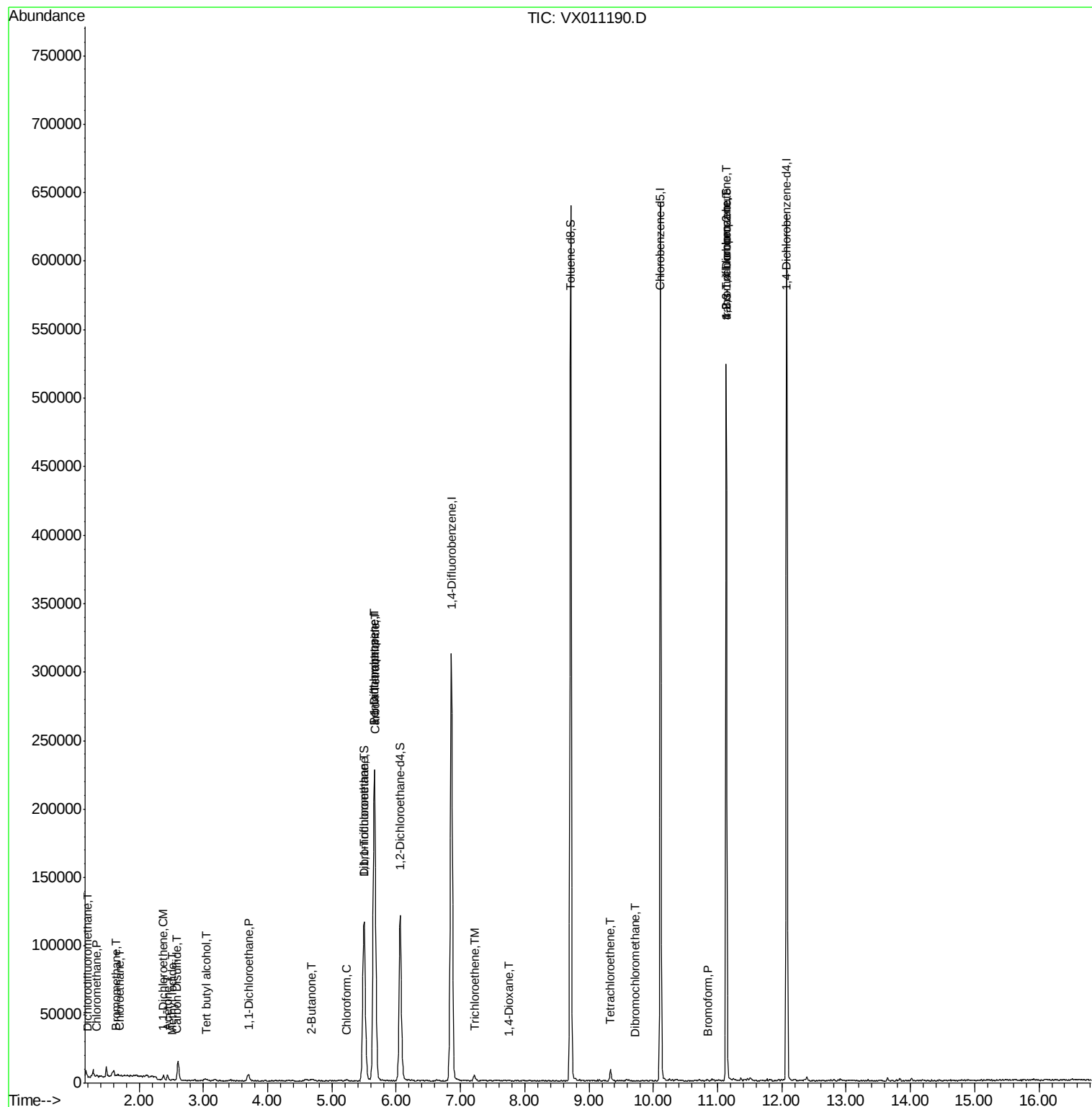
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	86	0.581	ug/l #	62
3) Chloromethane	1.33	50	511	0.244	ug/l #	83
5) Bromomethane	1.65	94	777	0.647	ug/l	83
6) Chloroethane	1.71	64	359	0.265	ug/l #	50
10) Methyl Iodide	2.52	142	610	0.226	ug/l #	86
11) Tert butyl alcohol	3.04	59	1359	2.413	ug/l #	94
12) 1,1-Dichloroethene	2.38	96	1049	0.518	ug/l	91
16) Acetone	2.45	43	3899	3.570	ug/l	96
17) Carbon Disulfide	2.57	76	1535	0.296	ug/l #	86
24) 1,1-Dichloroethane	3.70	63	5219	1.449	ug/l	97
25) 2-Butanone	4.68	43	537	0.343	ug/l #	81
30) Chloroform	5.22	83	947	0.243	ug/l	90
32) 1,1,1-Trichloroethane	5.49	97	882	0.262	ug/l #	45
36) 1,1-Dichloropropene	5.66	75	15915	5.931	ug/l #	48
38) Carbon Tetrachloride	5.67	117	20946	7.491	ug/l #	18
44) Trichloroethene	7.22	130	1544	0.635	ug/l	83
49) 1,4-Dioxane	7.75	88	19	0.309	ug/l #	1
60) Dibromochloromethane	9.71	129	44	2.544	ug/l #	11
64) Tetrachloroethene	9.34	164	1508	0.664	ug/l #	86
71) Bromoform	10.86	173	56	2.577	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	63745	25.874	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	63745	64.316	ug/l #	11

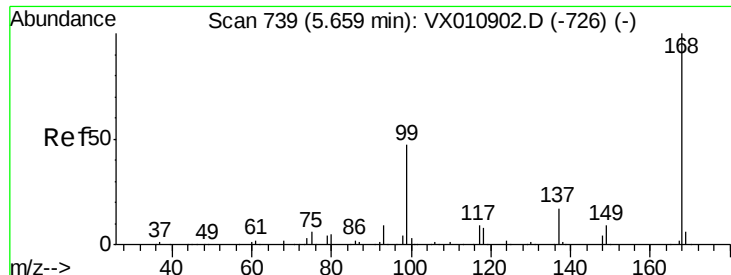
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
Data File : VX011190.D
Acq On : 30 Jul 2019 13:23
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Instrument :
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ClientSampleId :
BP-VPB203-GW-243-245

Quant Time: Aug 08 05:22:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

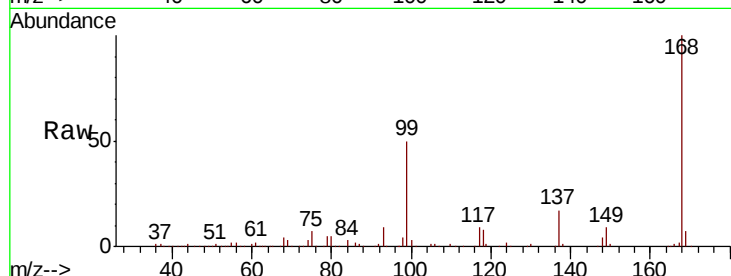
BP-VPB203-GW-243-245

Tgt Ion:168 Resp: 227273

Ion Ratio Lower Upper

168 100

99 50.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): VX011190.D (-690) (-)

Ion 98.90 (98.60 to 99.60): VX011190.D (-690) (-)

5.66

80000

60000

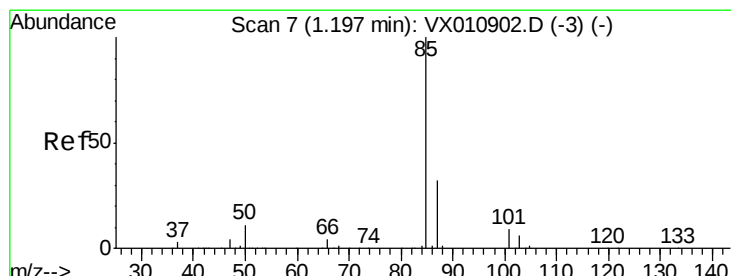
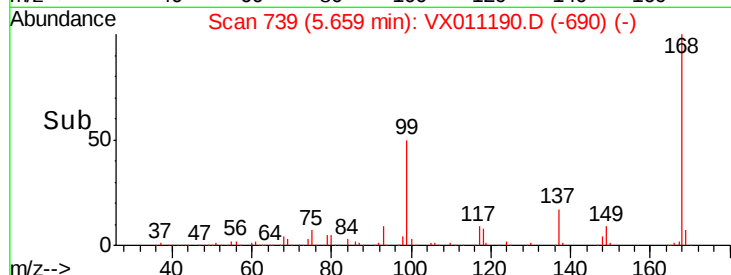
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.581 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011190.D

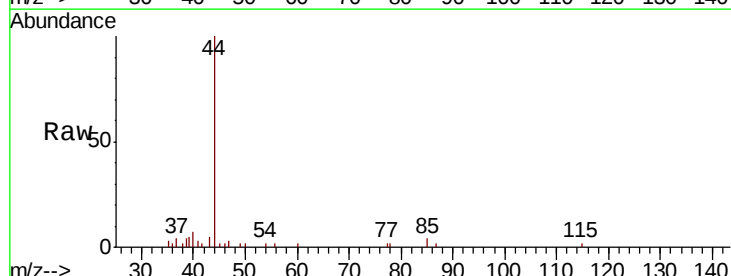
Acq: 30 Jul 2019 13:23

Tgt Ion: 85 Resp: 86

Ion Ratio Lower Upper

85 100

87 52.9 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX011190.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VX011190.D (-1) (-)

1.20

120

100

80

60

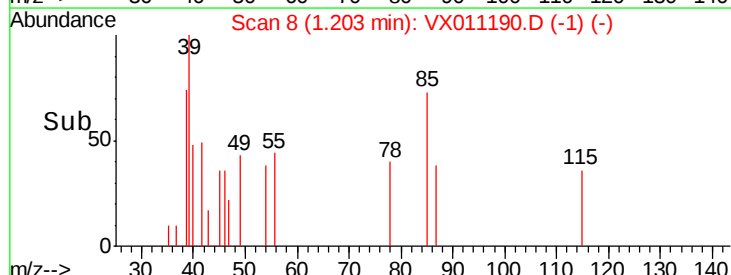
40

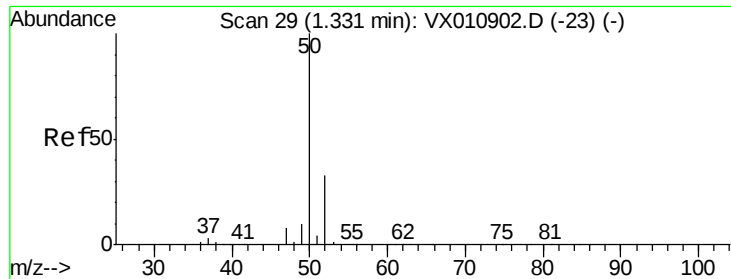
20

0

Time-->

1.18 1.20





#3

Chloromethane

Concen: 0.244 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

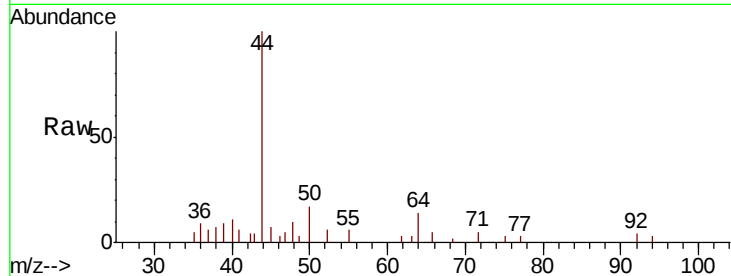
BP-VPB203-GW-243-245

Tgt Ion: 50 Resp: 511

Ion Ratio Lower Upper

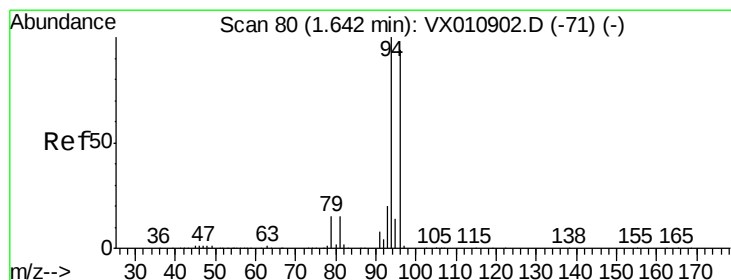
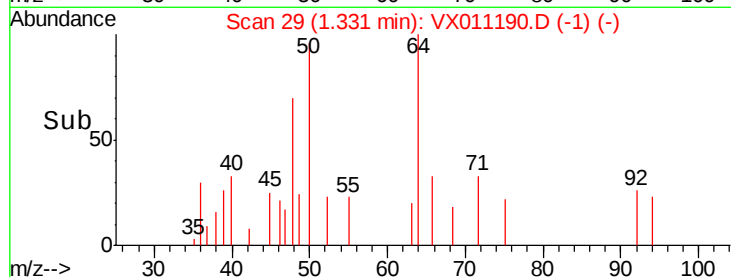
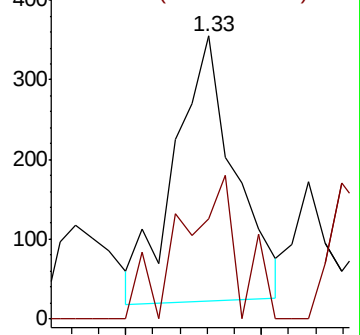
50 100

52 42.7 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: 0.647 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011190.D

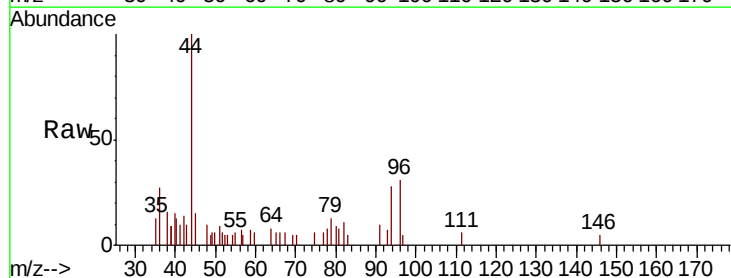
Acq: 30 Jul 2019 13:23

Tgt Ion: 94 Resp: 777

Ion Ratio Lower Upper

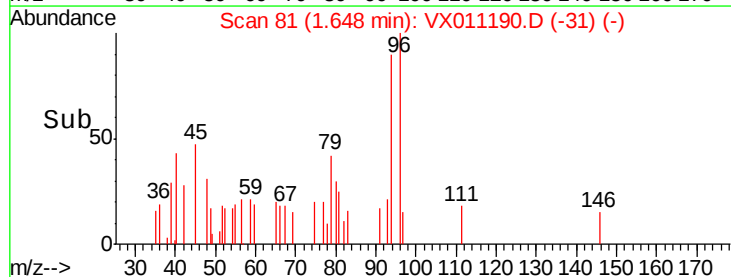
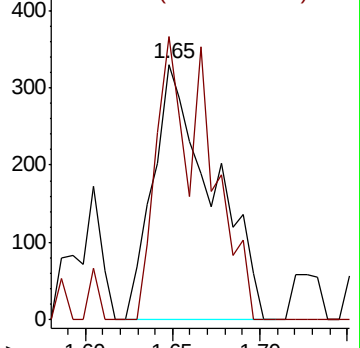
94 100

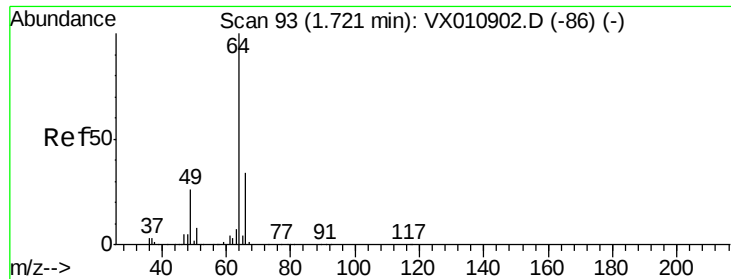
96 110.9 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.265 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

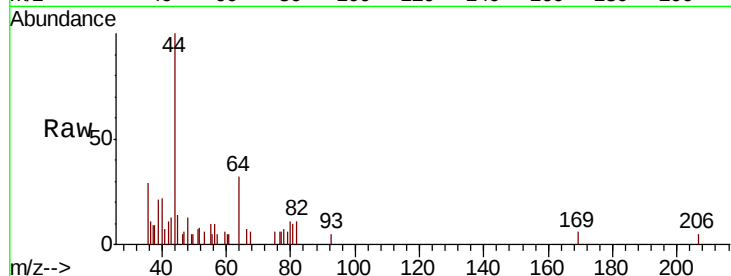
BP-VPB203-GW-243-245

Tgt Ion: 64 Resp: 359

Ion Ratio Lower Upper

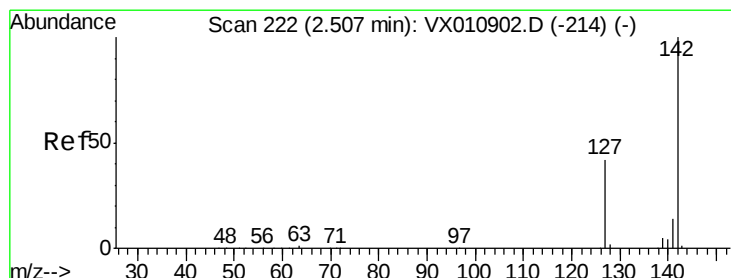
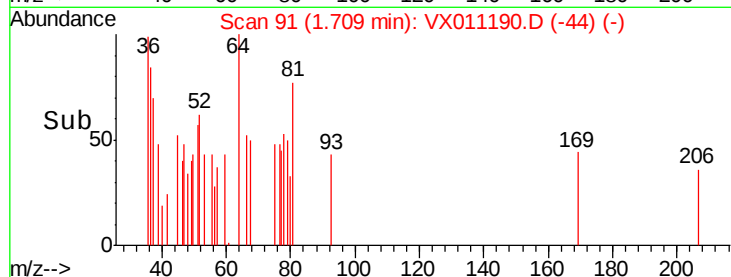
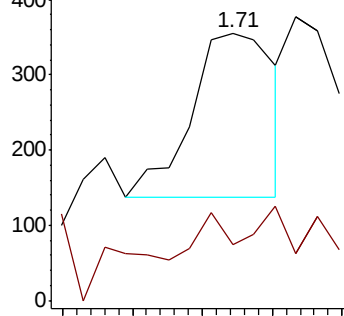
64 100

66 5.5 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.226 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

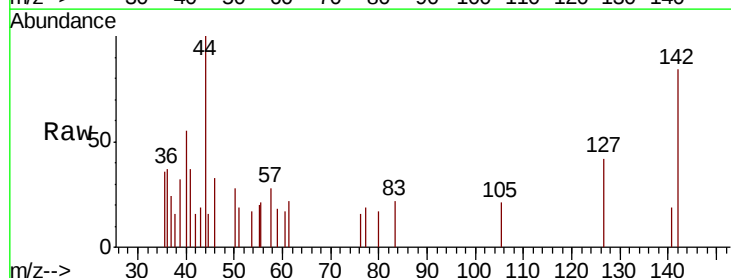
Tgt Ion: 142 Resp: 610

Ion Ratio Lower Upper

142 100

127 53.3 34.2 51.4#

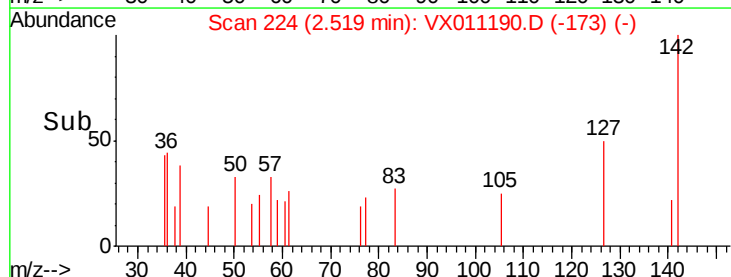
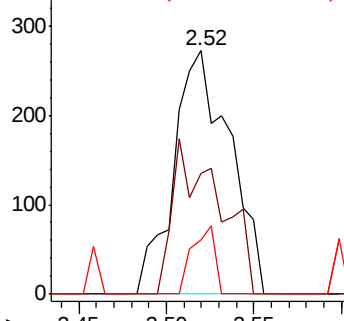
141 11.3 11.7 17.5#

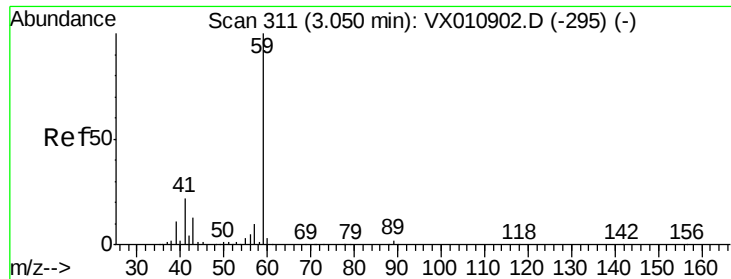


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

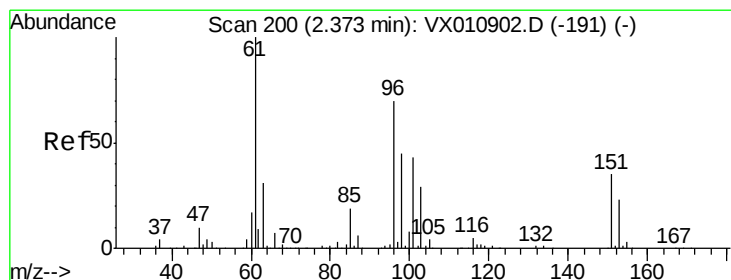
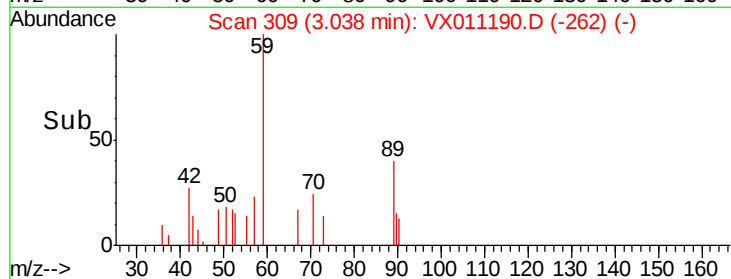
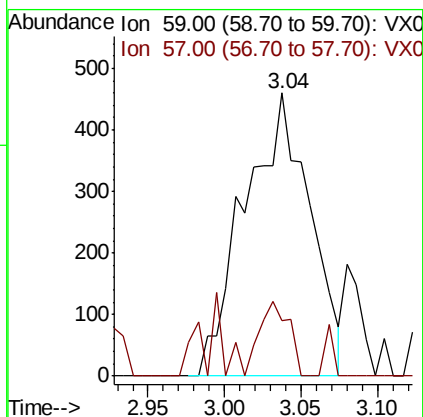
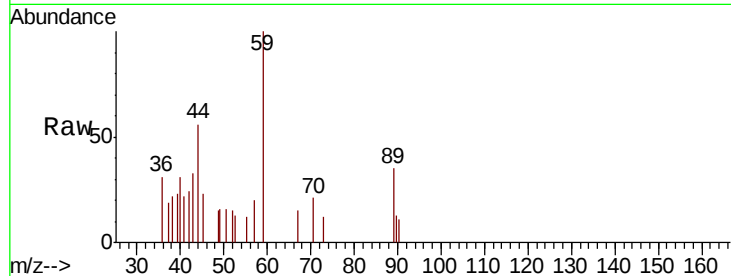




#11
Tert butyl alcohol
Concen: 2.413 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

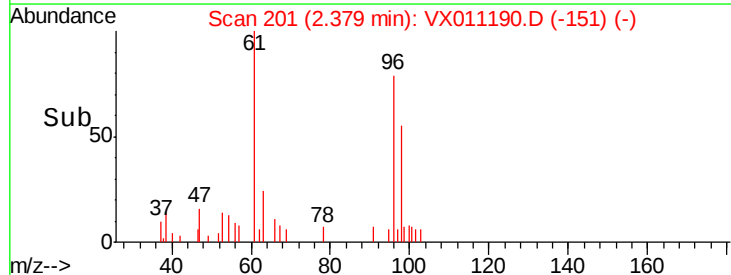
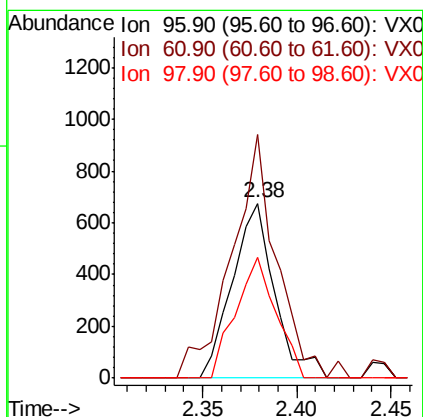
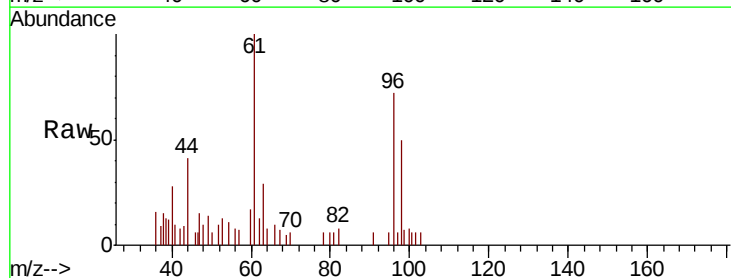
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-243-245

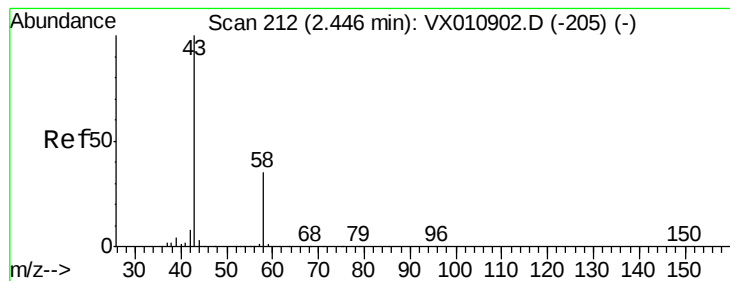
Tgt Ion: 59 Resp: 1359
Ion Ratio Lower Upper
59 100
57 12.1 7.9 11.9#



#12
1,1-Dichloroethene
Concen: 0.518 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

Tgt Ion: 96 Resp: 1049
Ion Ratio Lower Upper
96 100
61 129.6 115.0 172.4
98 69.2 52.2 78.2





#16

Acetone

Concen: 3.570 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

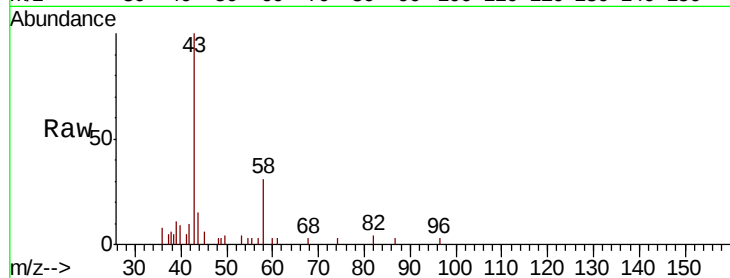
BP-VPB203-GW-243-245

Tgt Ion: 43 Resp: 3899

Ion Ratio Lower Upper

43 100

58 32.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

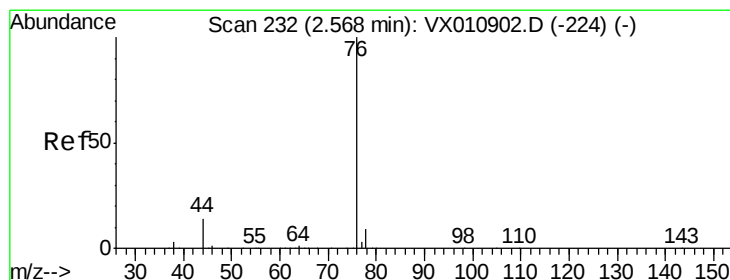
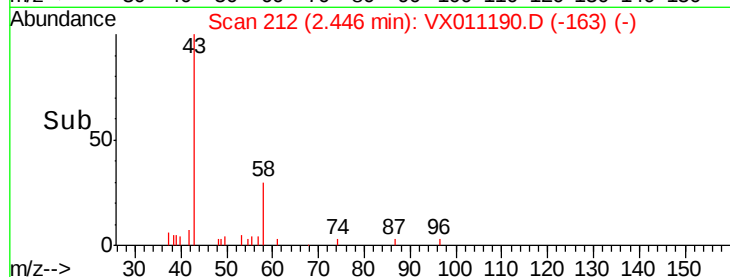
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX011190.D

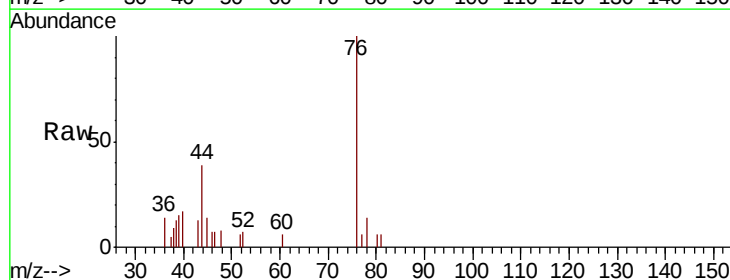
Acq: 30 Jul 2019 13:23

Tgt Ion: 76 Resp: 1535

Ion Ratio Lower Upper

76 100

78 14.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1000

800

600

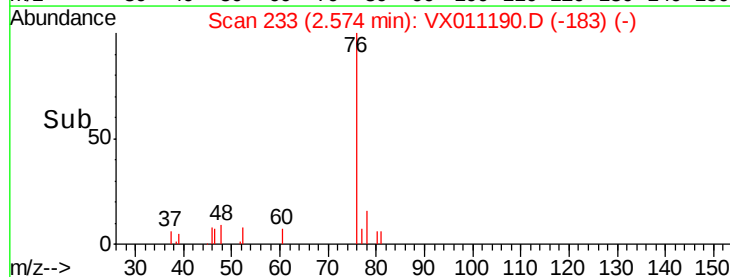
400

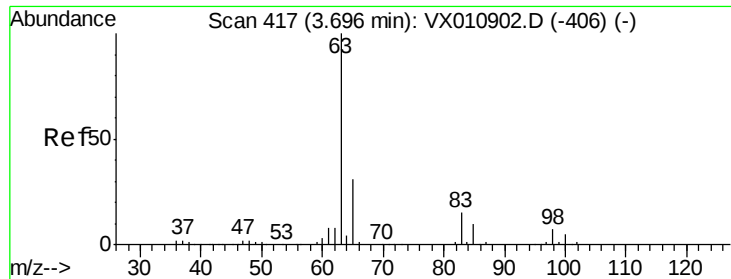
200

0

2.50 2.55 2.60 2.65

Time-->





#24

1,1-Dichloroethane

Concen: 1.449 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-243-245

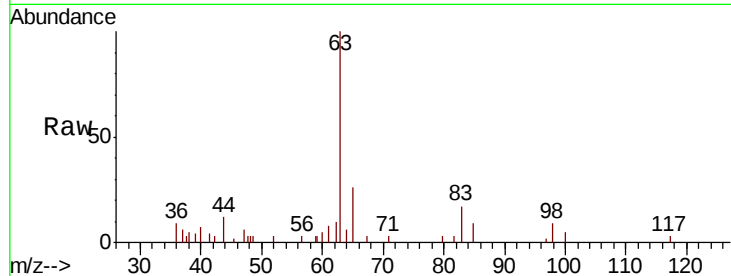
Tgt Ion: 63 Resp: 5219

Ion Ratio Lower Upper

63 100

98 9.1 3.6 10.9

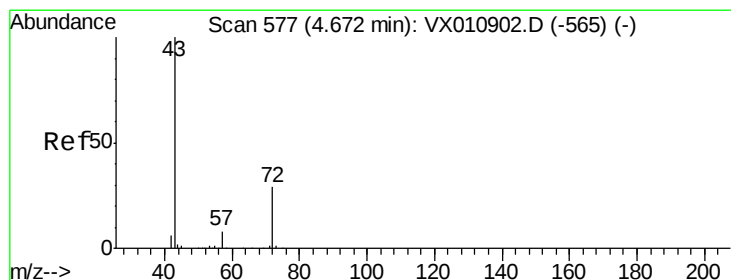
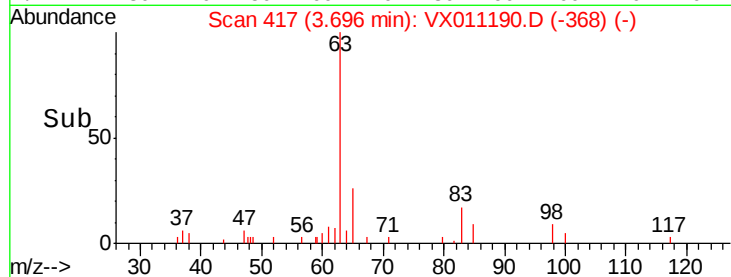
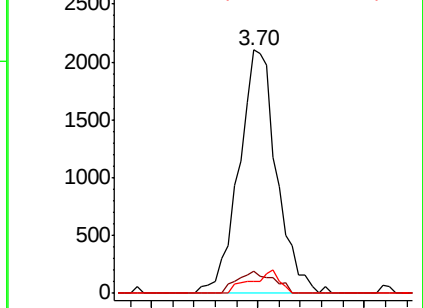
100 4.8 2.4 7.2



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: 0.343 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX011190.D

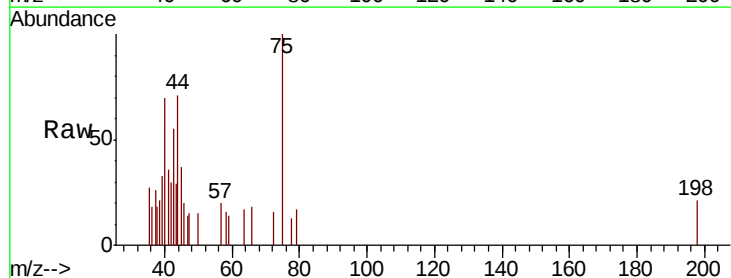
Acq: 30 Jul 2019 13:23

Tgt Ion: 43 Resp: 537

Ion Ratio Lower Upper

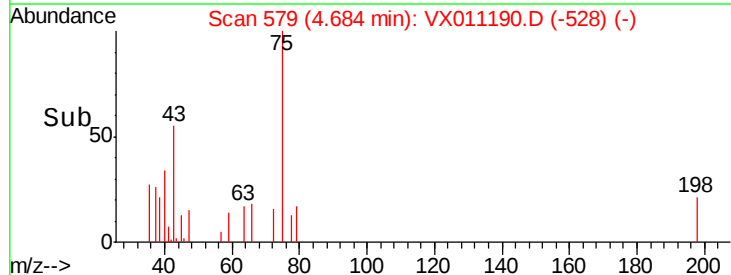
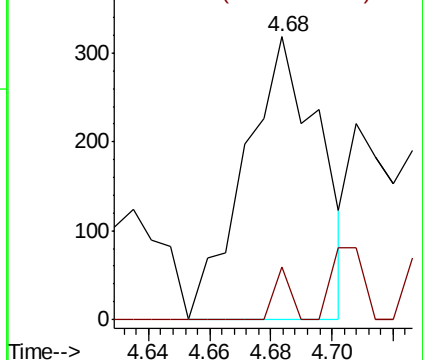
43 100

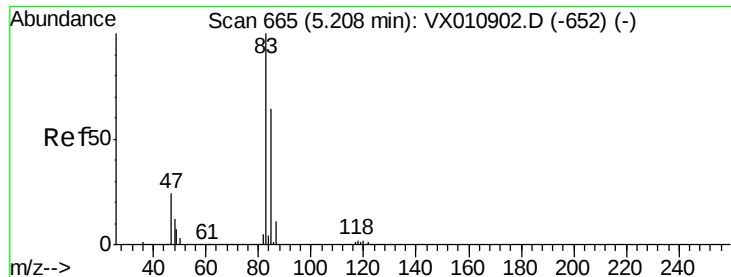
72 18.6 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

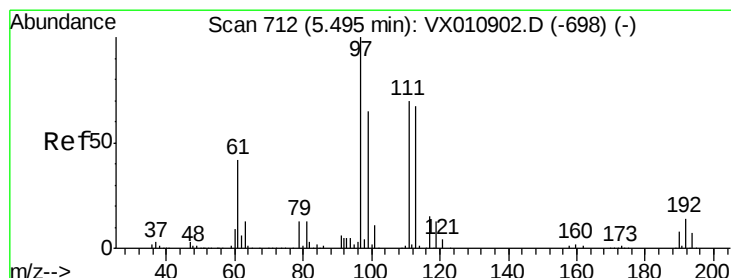
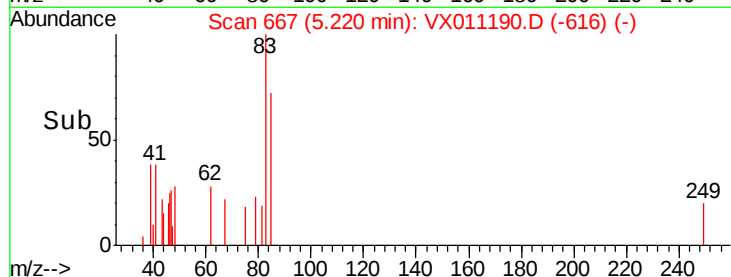
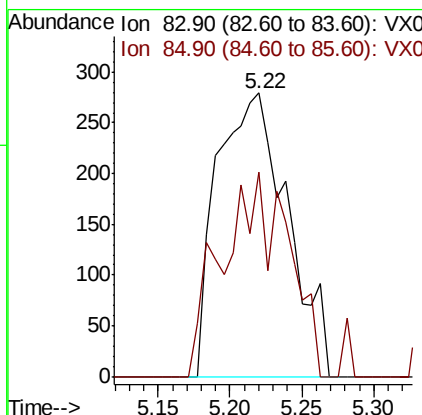
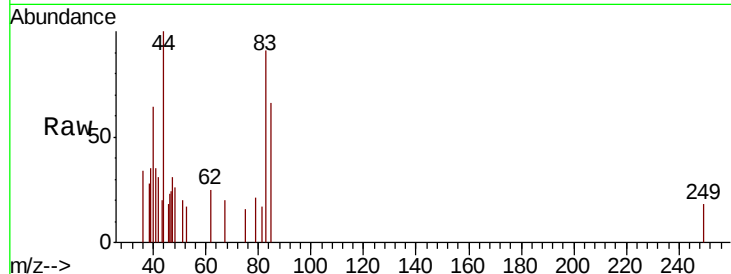




#30
Chloroform
Concen: 0.243 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

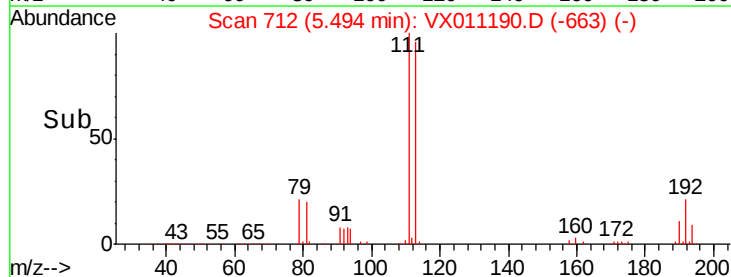
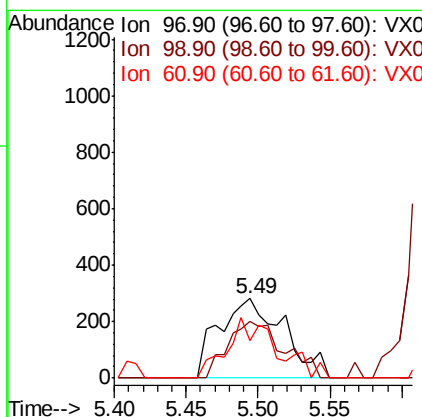
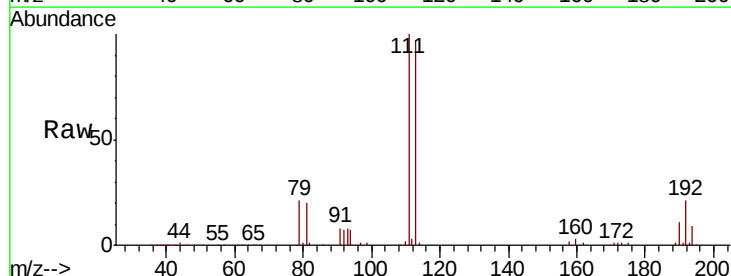
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-243-245

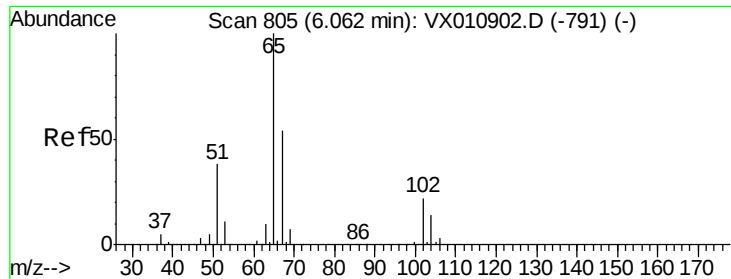
Tgt Ion: 83 Resp: 947
Ion Ratio Lower Upper
83 100
85 72.4 51.4 77.0



#32
1,1,1-Trichloroethane
Concen: 0.262 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

Tgt Ion: 97 Resp: 882
Ion Ratio Lower Upper
97 100
99 0.0 51.4 77.0#
61 48.9 33.0 49.6

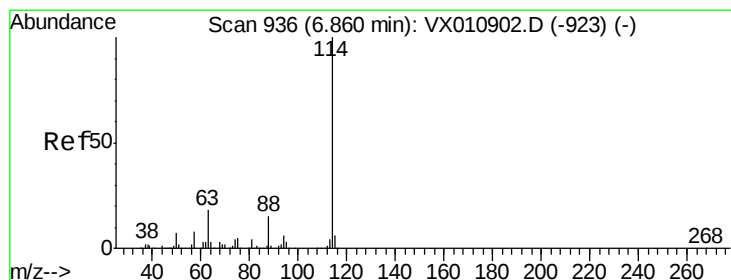
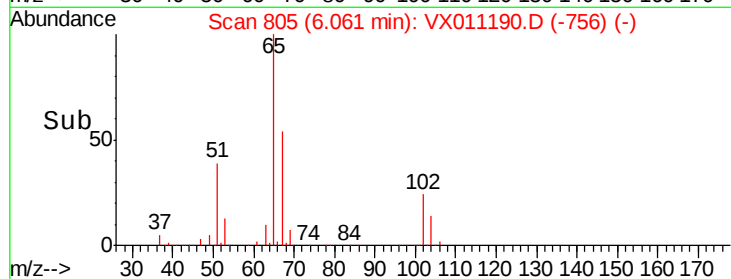
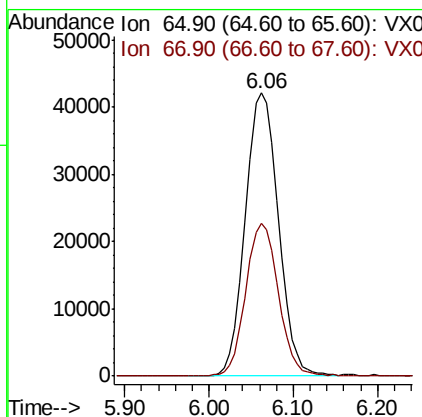
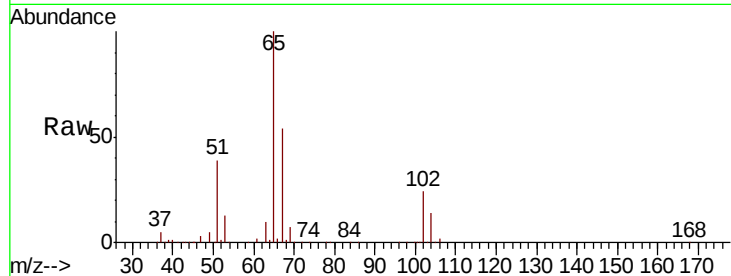




#33
 1,2-Dichloroethane-d4
 Concen: 46.507 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011190.D
 Acq: 30 Jul 2019 13:23

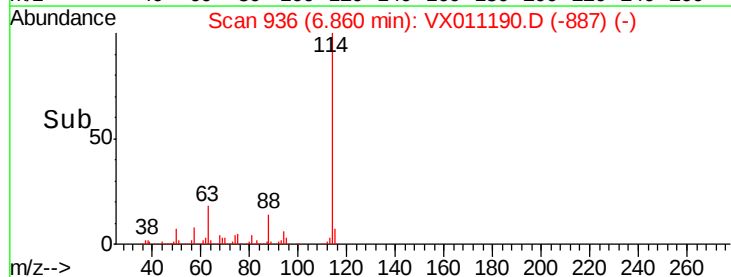
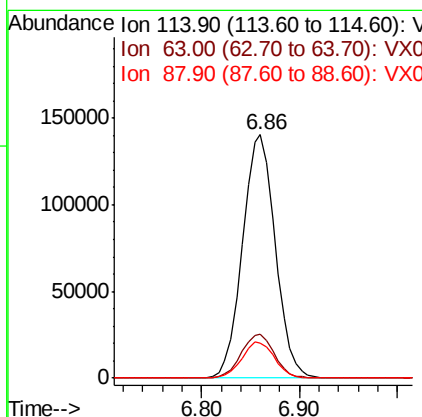
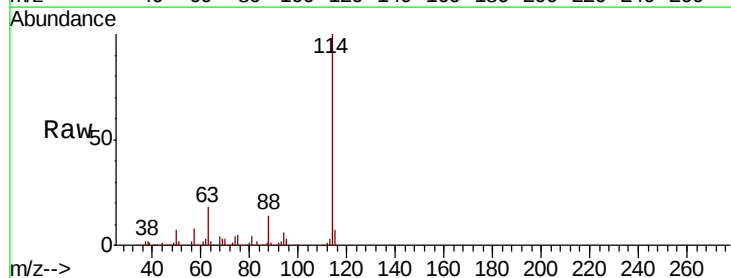
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-243-245

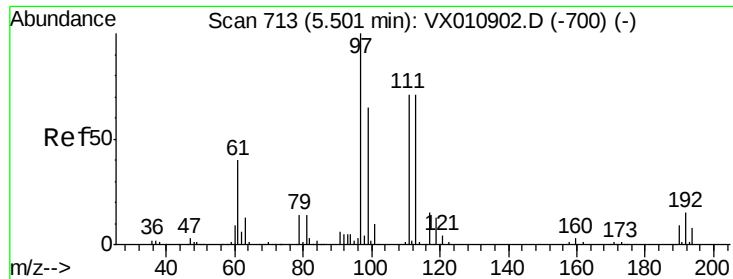
Tgt Ion: 65 Resp: 112447
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX011190.D
 Acq: 30 Jul 2019 13:23

Tgt Ion: 114 Resp: 326670
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.6
 88 14.1 0.0 29.8

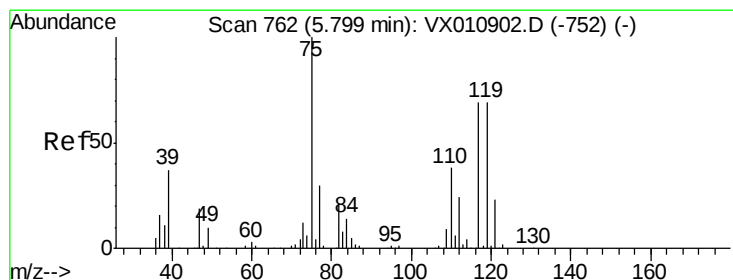
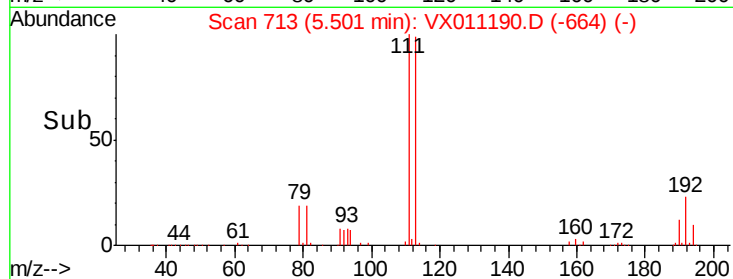
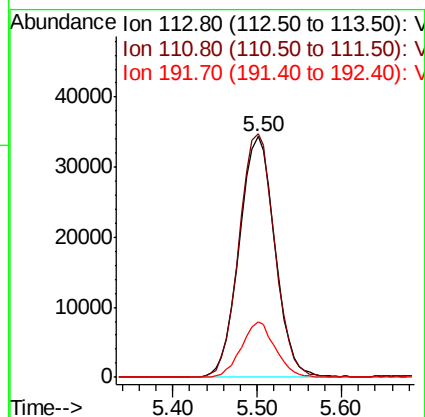
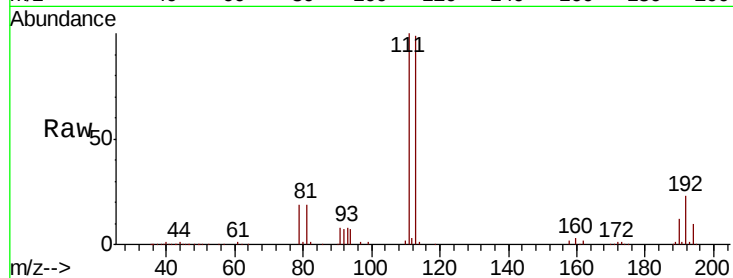




#35
 Dibromofluoromethane
 Concen: 47.452 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX011190.D
 Acq: 30 Jul 2019 13:23

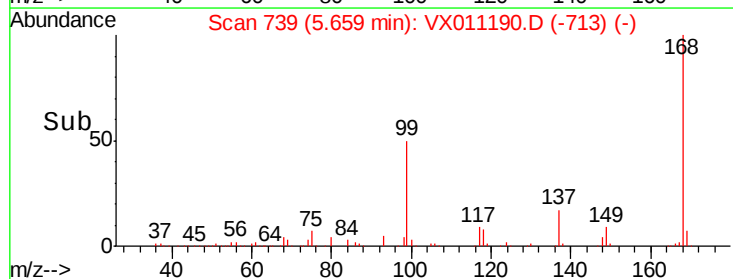
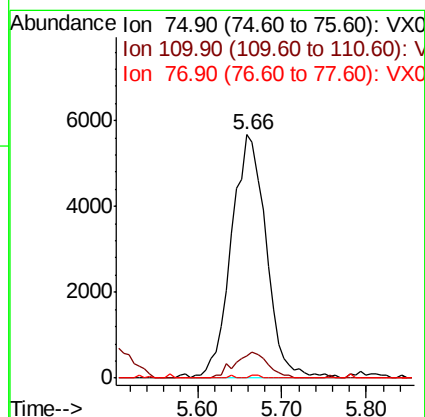
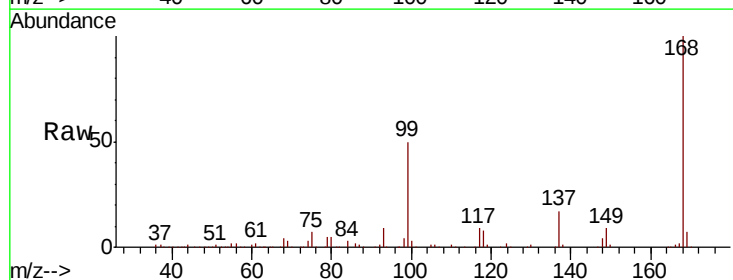
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-243-245

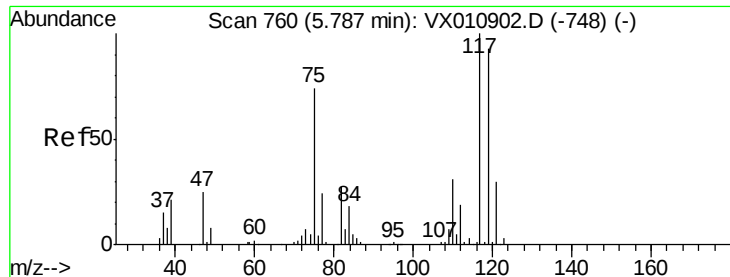
Tgt Ion: 113 Resp: 98389
 Ion Ratio Lower Upper
 113 100
 111 101.0 82.3 123.5
 192 21.9 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.931 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011190.D
 Acq: 30 Jul 2019 13:23

Tgt Ion: 75 Resp: 15915
 Ion Ratio Lower Upper
 75 100
 110 10.1 19.9 59.7#
 77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 7.491 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-243-245

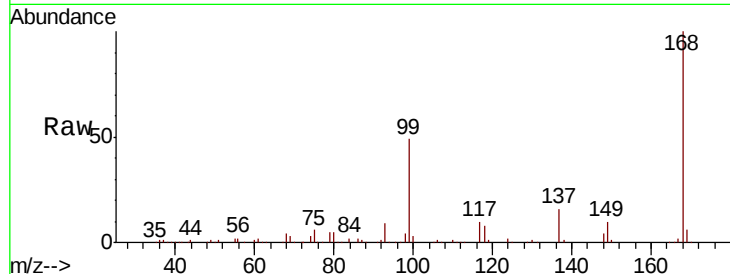
Tgt Ion:117 Resp: 20946

Ion Ratio Lower Upper

117 100

119 5.6 74.2 111.2#

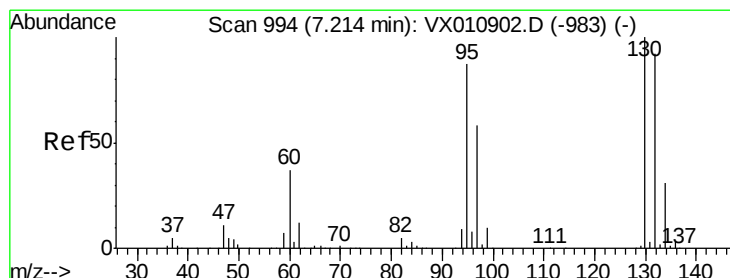
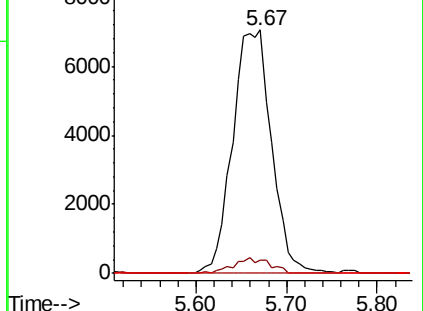
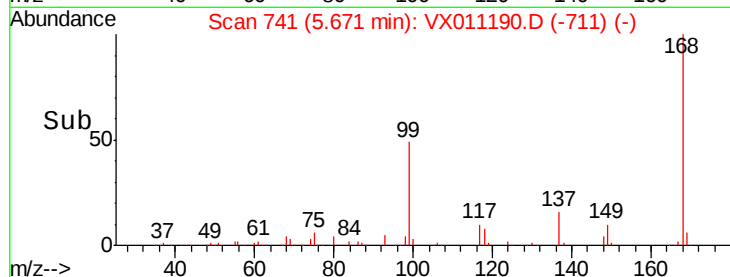
121 0.0 24.2 36.2#



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: 0.635 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX011190.D

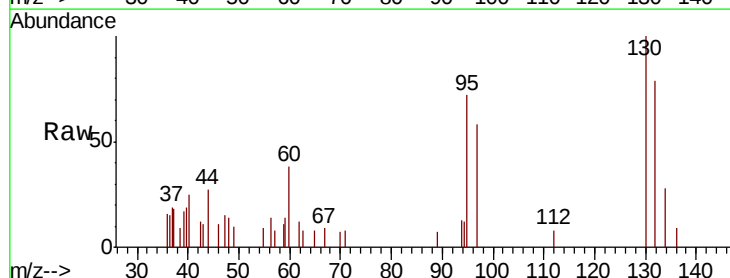
Acq: 30 Jul 2019 13:23

Tgt Ion:130 Resp: 1544

Ion Ratio Lower Upper

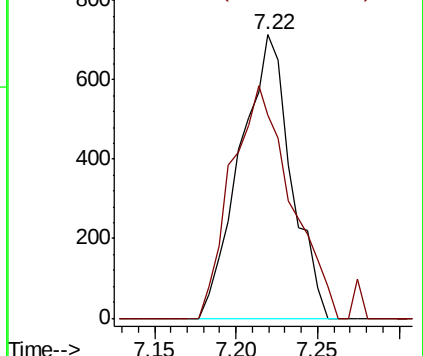
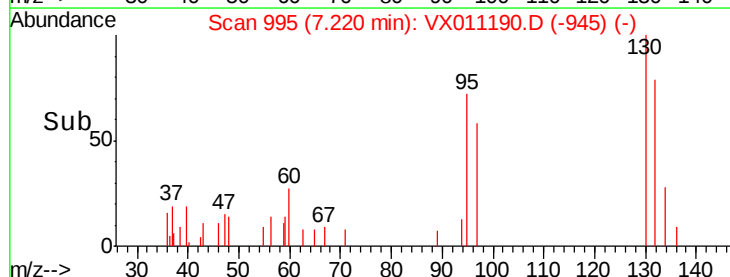
130 100

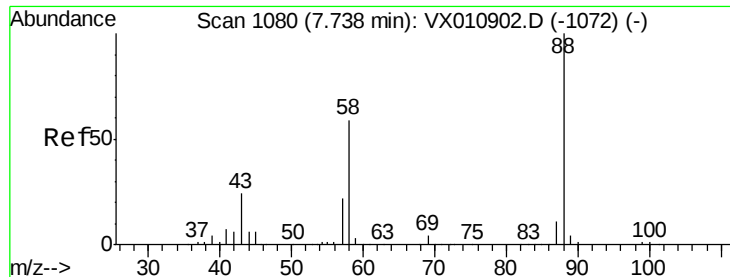
95 71.8 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

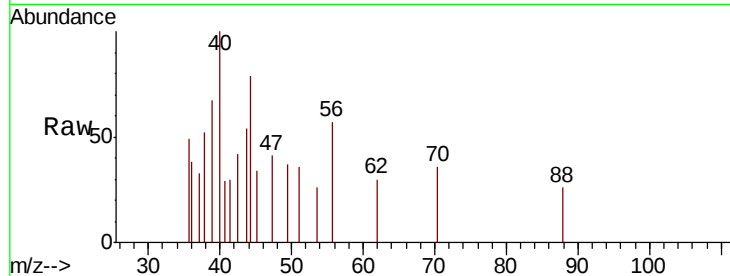




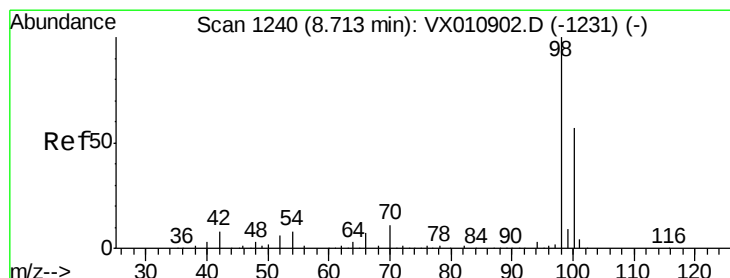
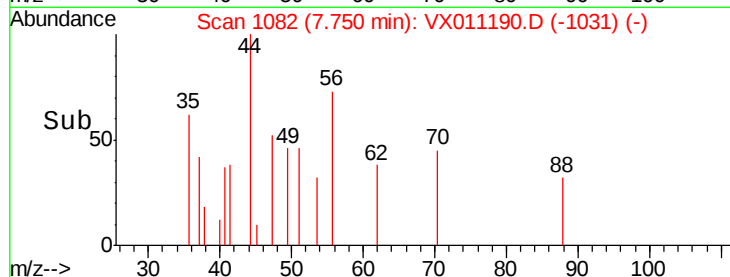
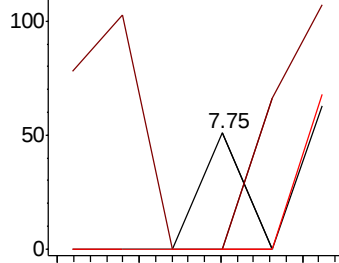
#49
1,4-Dioxane
Concen: 0.309 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-243-245

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 300.0 49.8 74.8#

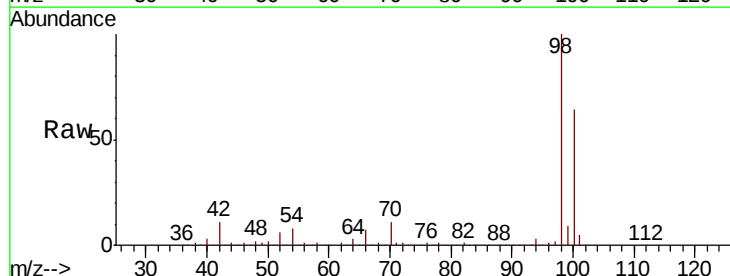


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

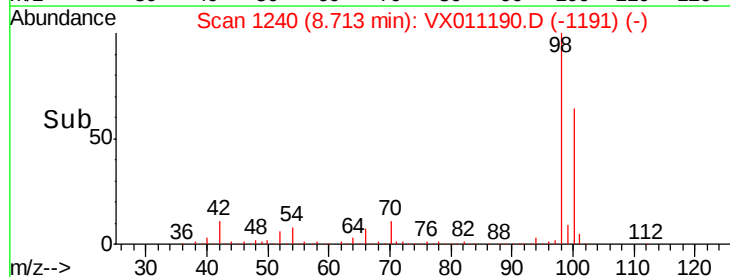
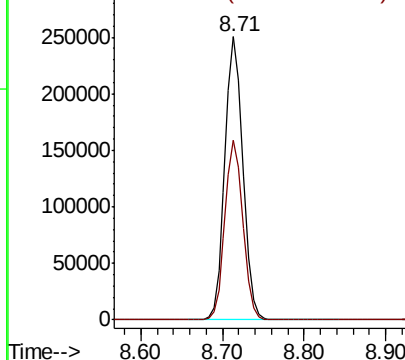


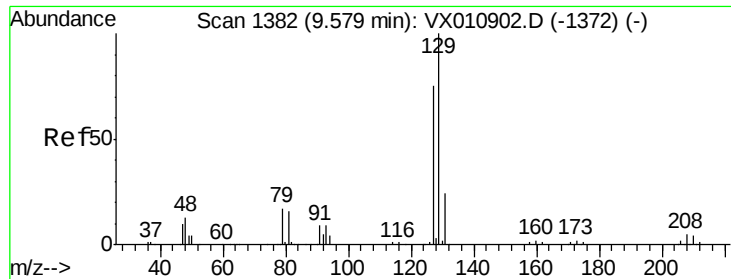
#50
Toluene-d8
Concen: 49.204 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

Tgt Ion: 98 Resp: 382647
Ion Ratio Lower Upper
98 100
100 63.4 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.544 ug/l

RT: 9.71 min Scan# 1404

Delta R.T. 0.13 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

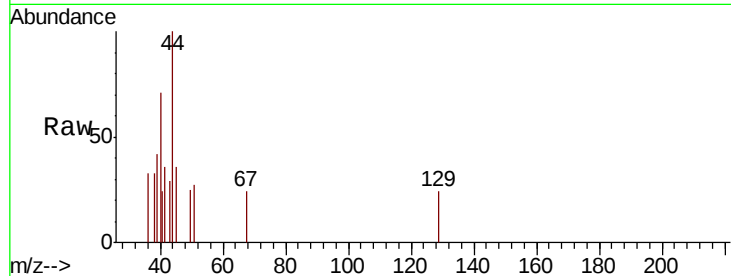
BP-VPB203-GW-243-245

Tgt Ion: 129 Resp: 44

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

9.71

60

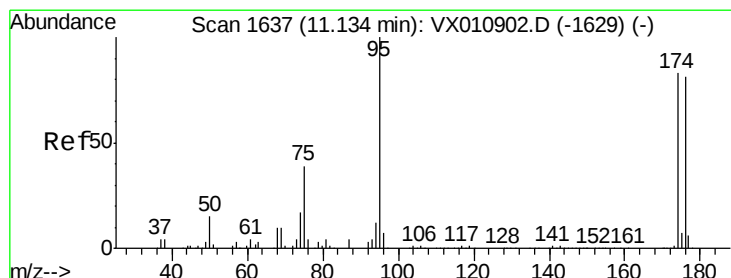
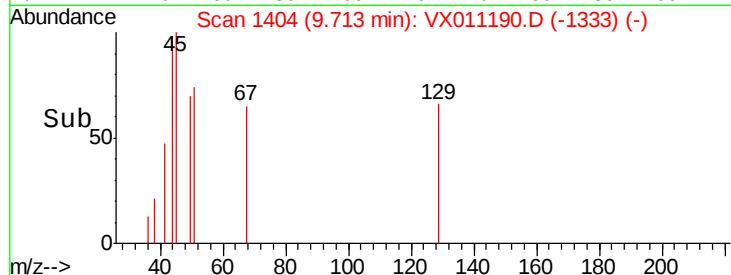
40

20

0

9.70 9.72 9.74

Time-->



#62

4-Bromofluorobenzene

Concen: 43.762 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

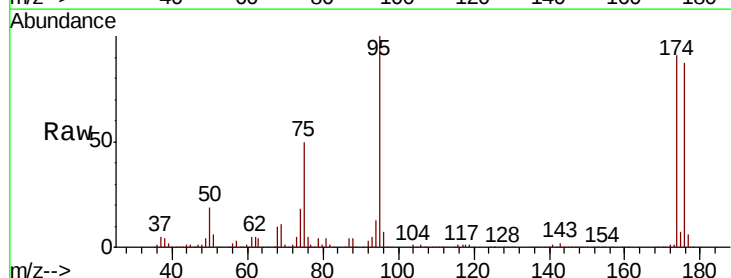
Tgt Ion: 95 Resp: 125092

Ion Ratio Lower Upper

95 100

174 93.7 0.0 180.6

176 90.1 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

11.13

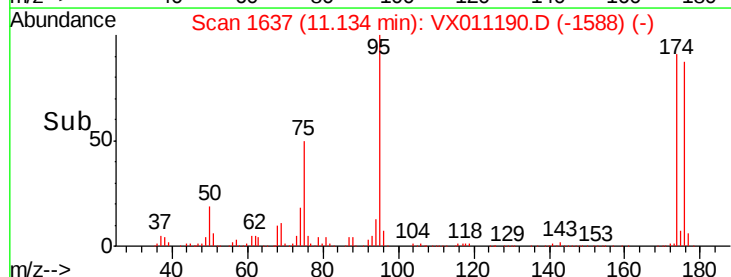
100000

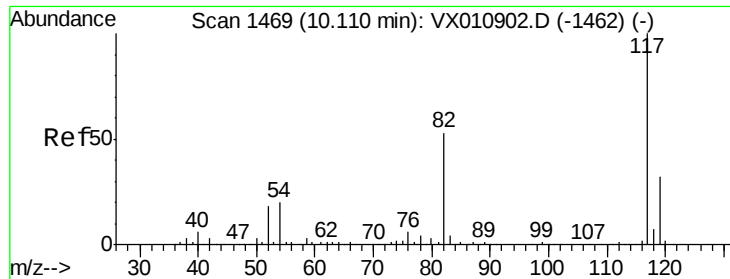
50000

0

11.10 11.20

Time-->

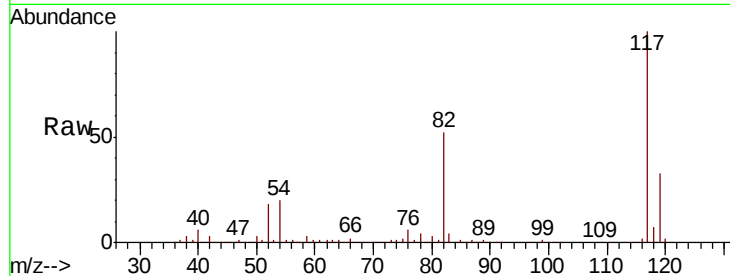




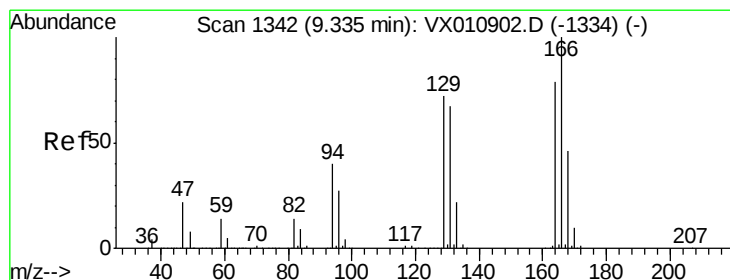
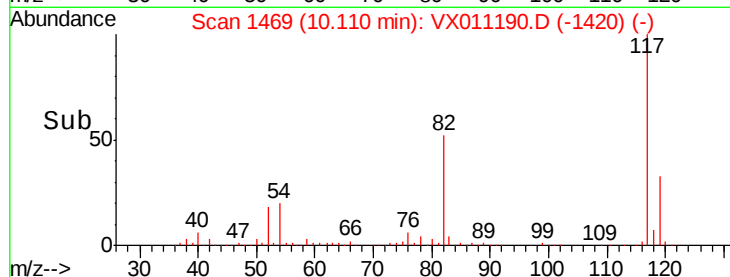
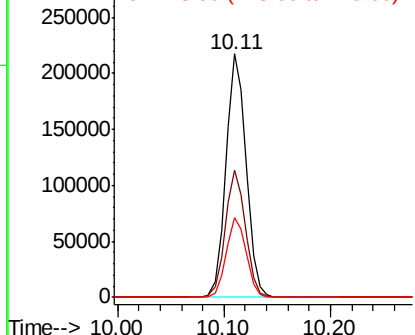
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-243-245

Tgt Ion:117 Resp: 288601
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 32.9 25.9 38.9

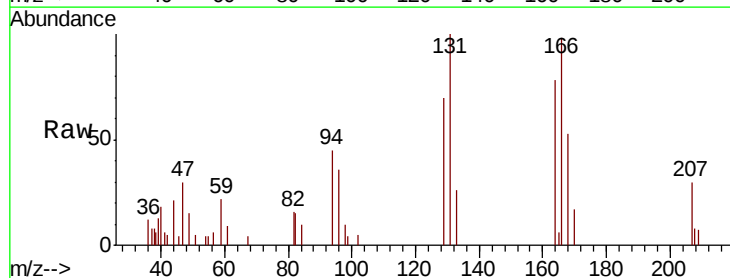


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

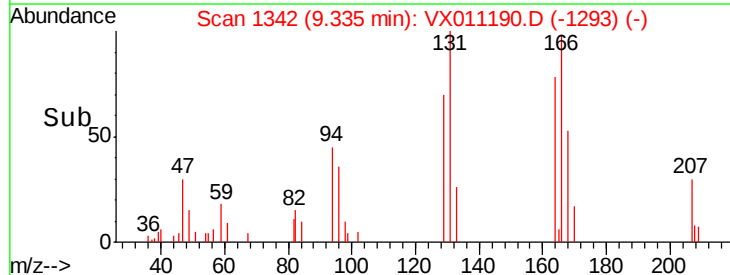
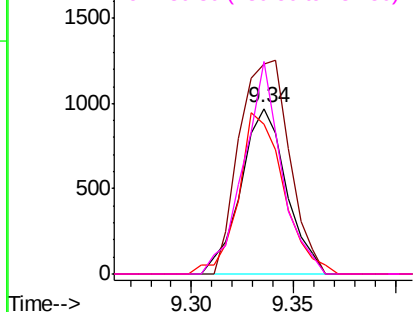


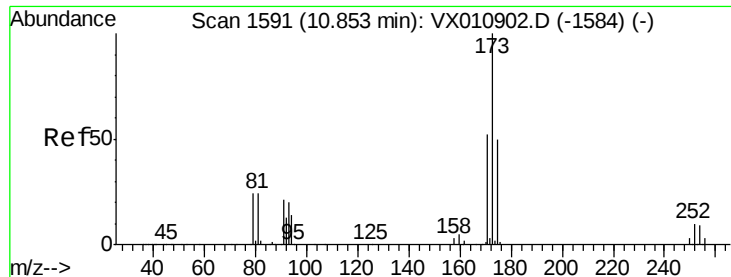
#64
Tetrachloroethene
Concen: 0.664 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX011190.D
Acq: 30 Jul 2019 13:23

Tgt Ion:164 Resp: 1508
Ion Ratio Lower Upper
164 100
166 126.7 100.8 151.2
129 90.4 72.6 109.0
131 128.9 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





#71

Bromoform

Concen: 2.577 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-243-245

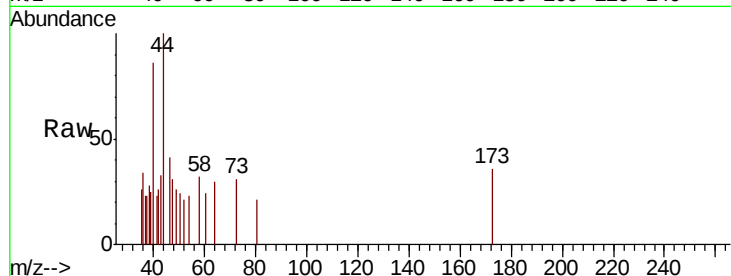
Tgt Ion:173 Resp: 56

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.6#

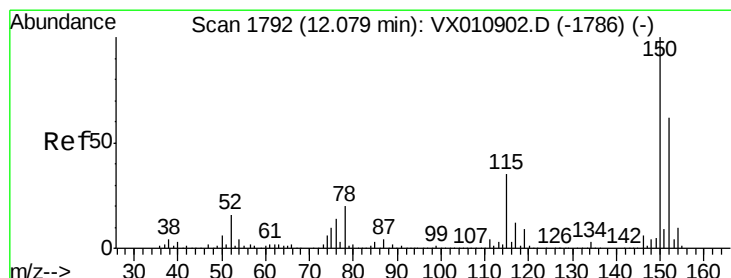
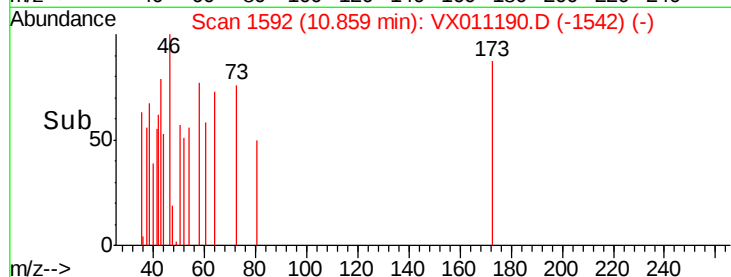
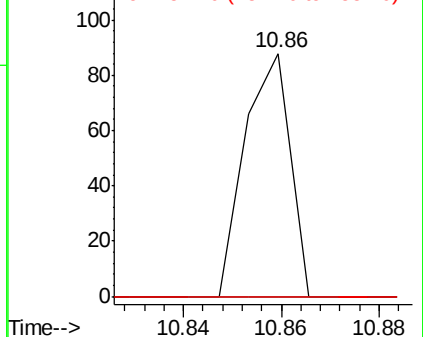
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX011190.D

Acq: 30 Jul 2019 13:23

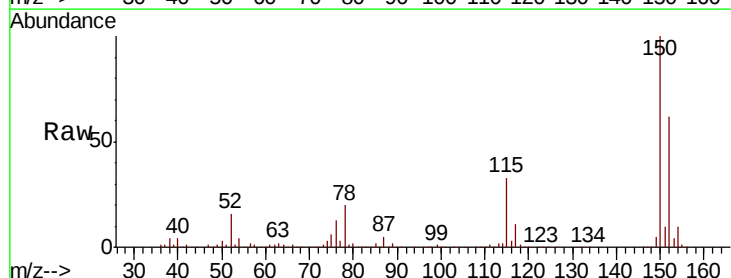
Tgt Ion:152 Resp: 136524

Ion Ratio Lower Upper

152 100

115 55.6 39.7 119.1

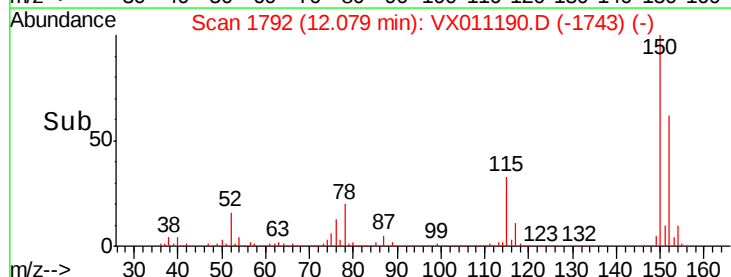
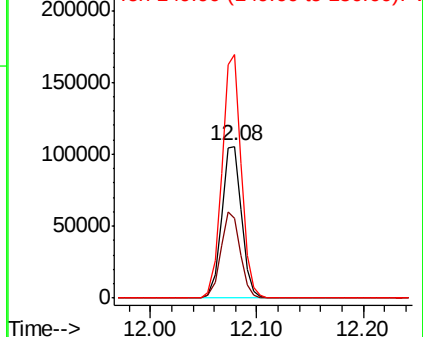
150 156.2 0.0 345.6

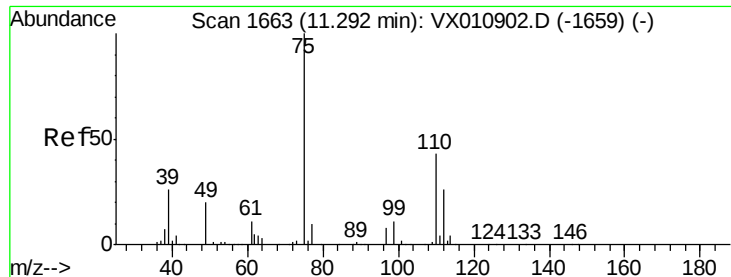


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.874 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

Instrument :

MSVOA_X

ClientSampleId :

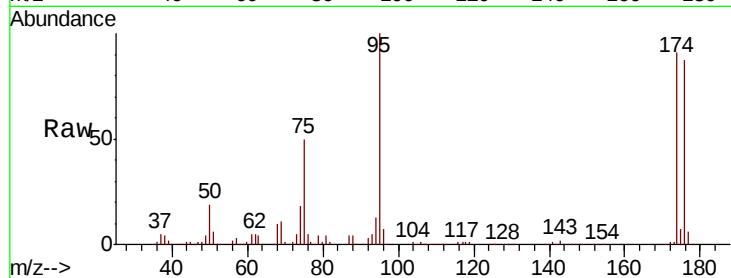
BP-VPB203-GW-243-245

Tgt Ion: 75 Resp: 63745

Ion Ratio Lower Upper

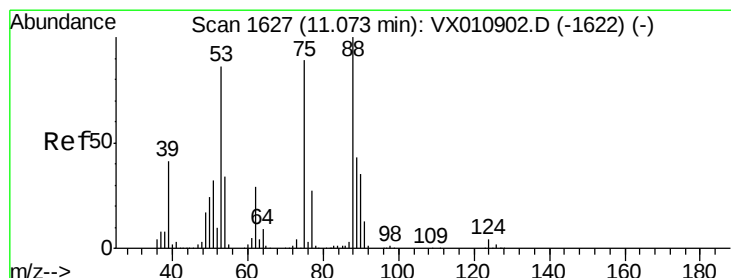
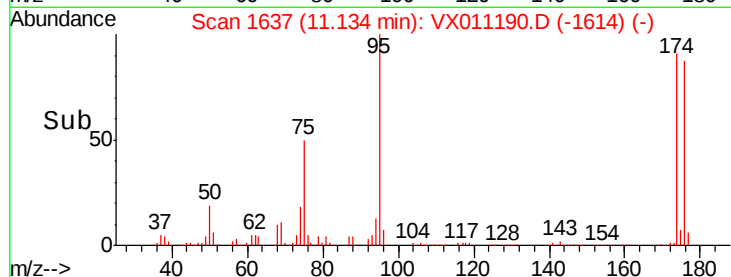
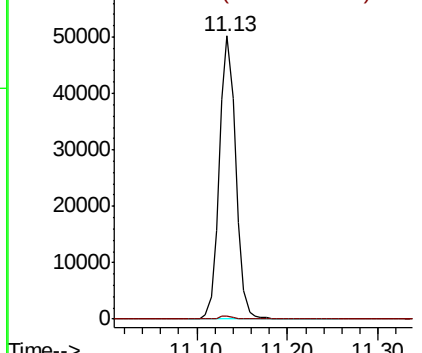
75 100

77 1.2 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: 64.316 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011190.D

Acq: 30 Jul 2019 13:23

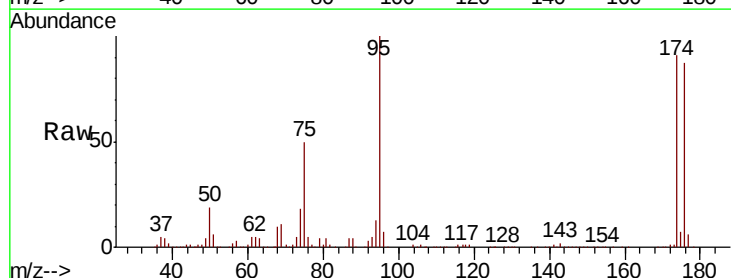
Tgt Ion: 75 Resp: 63745

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.1 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

