

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072519\
 Data File : VX011073.D
 Acq On : 25 Jul 2019 13:19
 Operator : JC/SP
 Sample : K3973-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-198-200

Quant Time: Jul 26 01:25:26 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	204944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	326961	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	306449	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143536	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	112144	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
35) Dibromofluoromethane	5.50	113	102611	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	8.71	98	391702	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	11.13	95	140406	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	

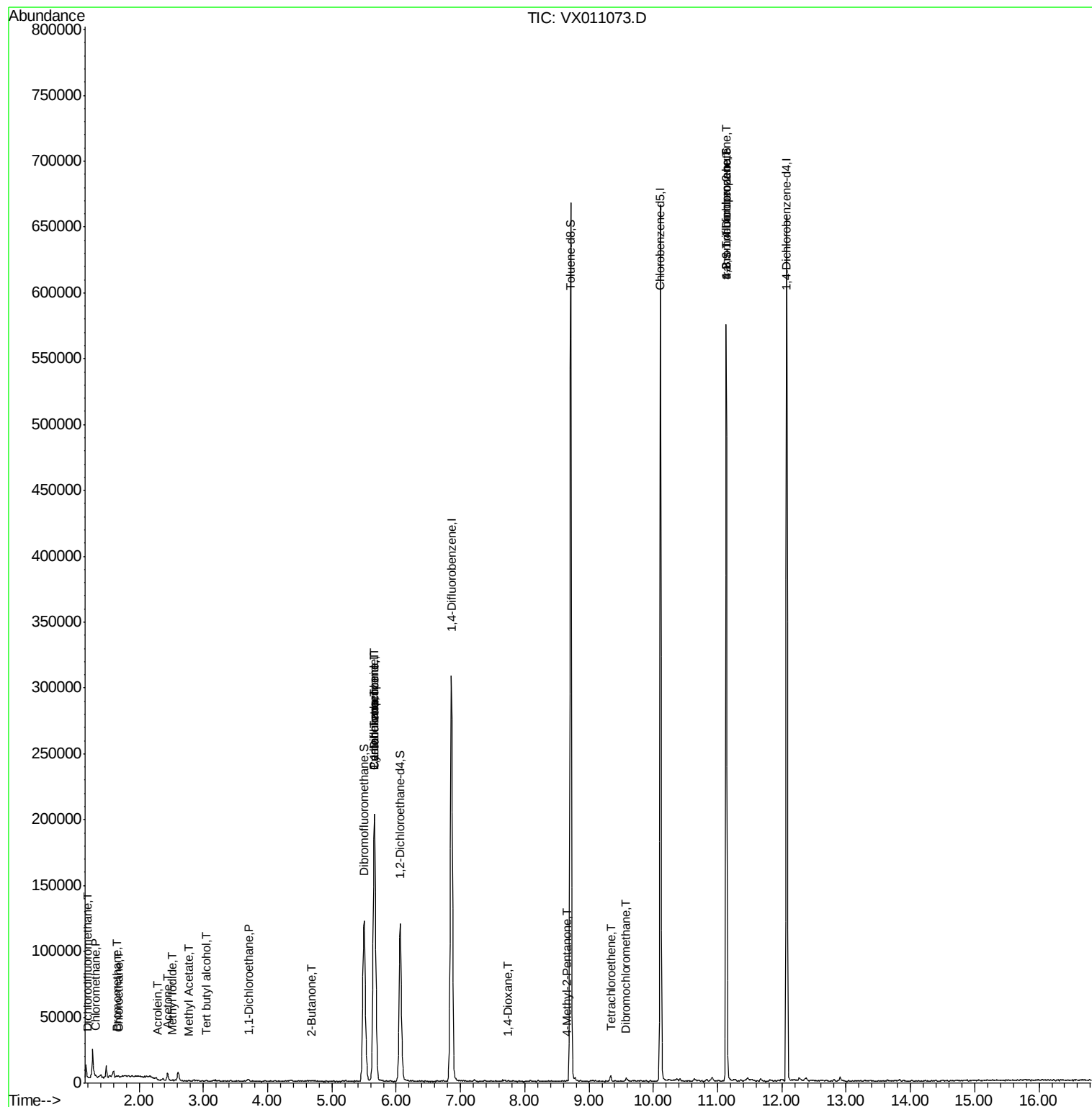
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	56	0.572	ug/l #	43
3) Chloromethane	1.32	50	922	0.489	ug/l	90
5) Bromomethane	1.65	94	604	0.558	ug/l #	56
6) Chloroethane	1.69	64	1237	1.013	ug/l #	77
10) Methyl Iodide	2.51	142	826	0.339	ug/l #	92
11) Tert butyl alcohol	3.04	59	463	0.912	ug/l	95
13) Acrolein	2.29	56	217	0.740	ug/l #	39
16) Acetone	2.44	43	5763	5.852	ug/l	99
18) Methyl Acetate	2.78	43	508	0.227	ug/l #	77
24) 1,1-Dichloroethane	3.70	63	1230	0.379	ug/l #	82
25) 2-Butanone	4.69	43	1066	0.754	ug/l	90
31) Cyclohexane	5.66	56	3939	1.331	ug/l #	13
36) 1,1-Dichloropropene	5.66	75	12990	4.837	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18882	6.747	ug/l #	17
49) 1,4-Dioxane	7.74	88	45	0.730	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	612	0.209	ug/l #	80
60) Dibromochloromethane	9.58	129	19	2.535	ug/l #	1
64) Tetrachloroethene	9.34	164	752	0.312	ug/l #	49
76) 1,2,3-Trichloropropane	11.13	75	70047	27.043	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	70047	67.042	ug/l #	11

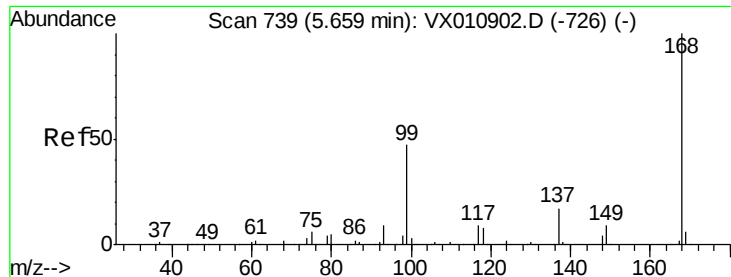
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

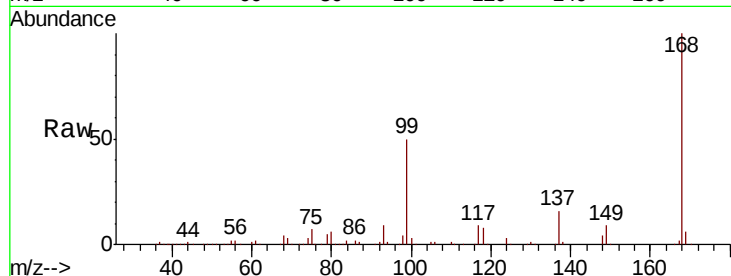
BP-VPB203-GW-198-200

Tot Ion:168 Resp: 204944

Ion Ratio Lower Upper

168 100

99 50.2 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

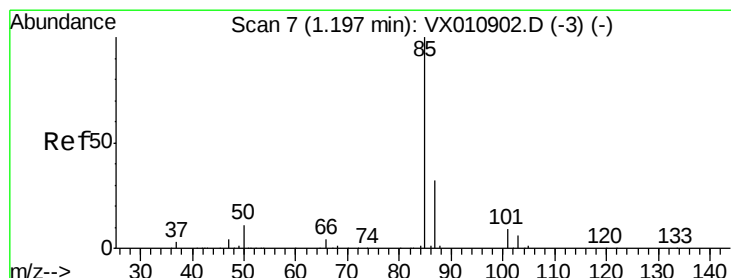
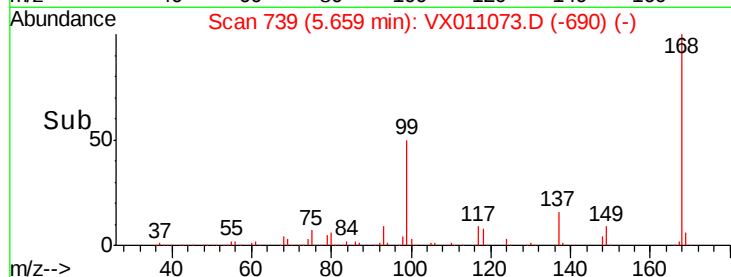
20000

0

5.60

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.572 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011073.D

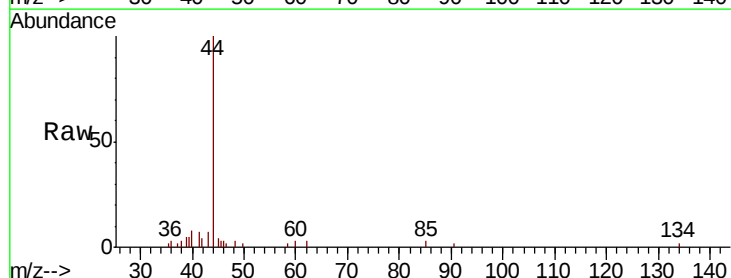
Acq: 25 Jul 2019 13:19

Tgt Ion: 85 Resp: 56

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

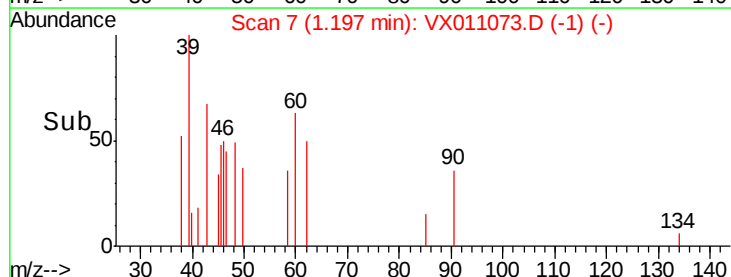
0

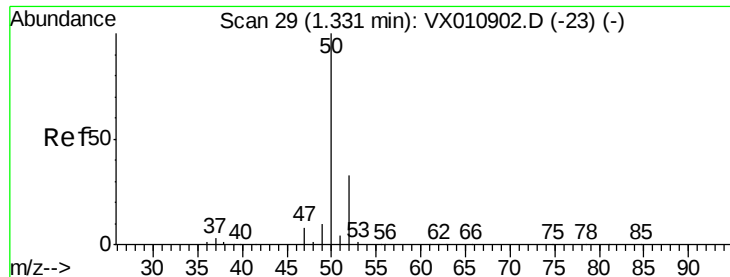
1.18

1.20

1.22

Time-->





#3

Chloromethane

Concen: 0.489 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

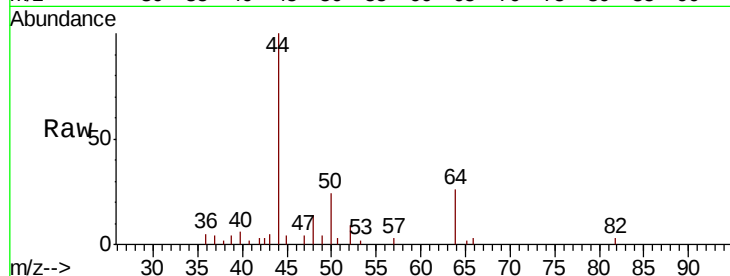
BP-VPB203-GW-198-200

Tot Ion: 50 Resp: 922

Ion Ratio Lower Upper

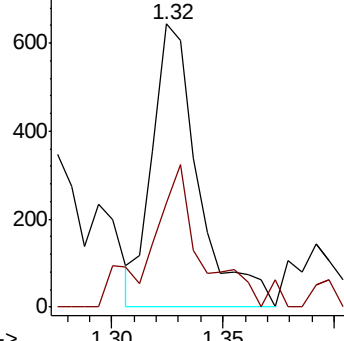
50 100

52 27.4 26.4 39.6

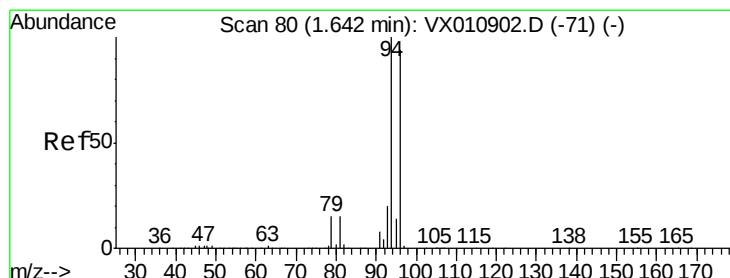
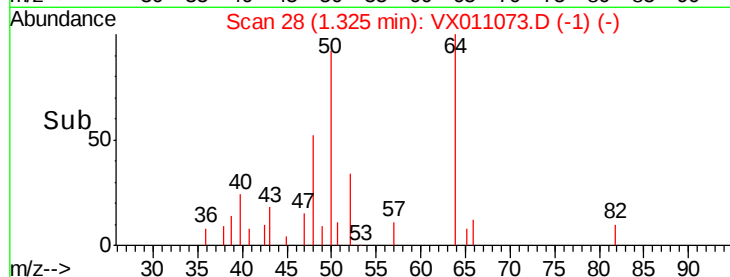


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: 0.558 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011073.D

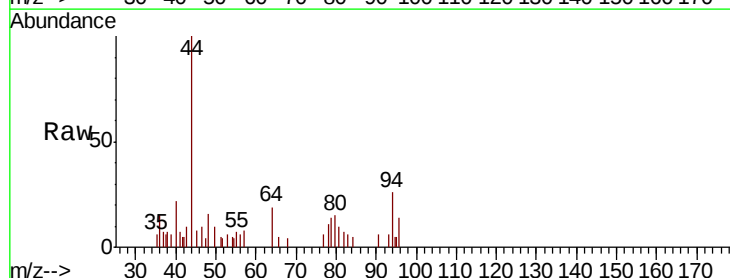
Acq: 25 Jul 2019 13:19

Tgt Ion: 94 Resp: 604

Ion Ratio Lower Upper

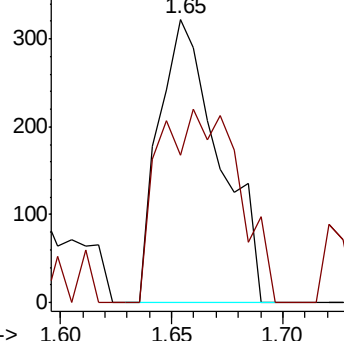
94 100

96 51.9 75.6 113.4#

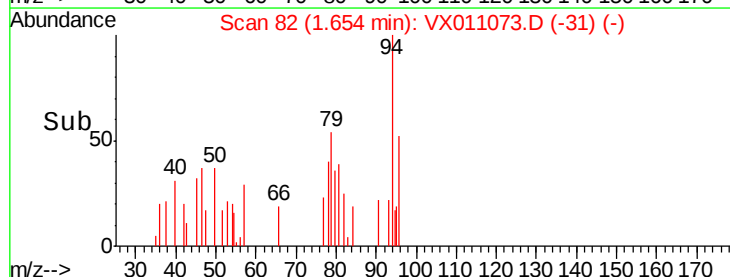


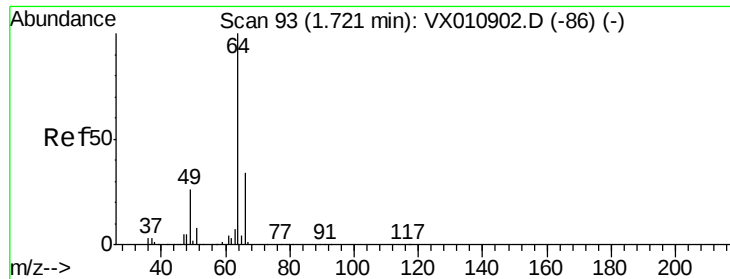
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: 1.013 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

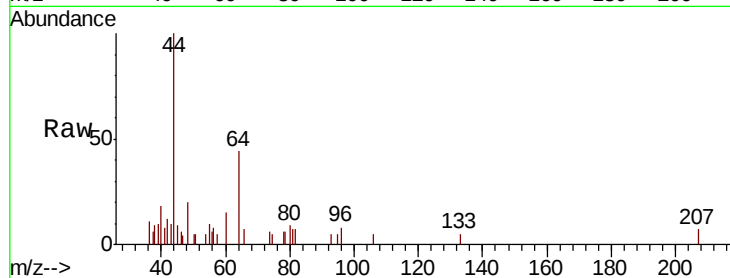
BP-VPB203-GW-198-200

Tot Ion: 64 Resp: 1237

Ion Ratio Lower Upper

64 100

66 20.5 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

600

500

400

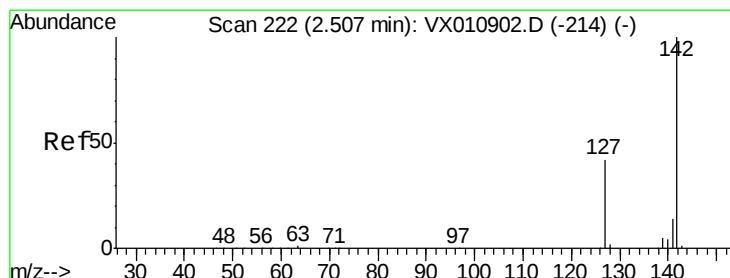
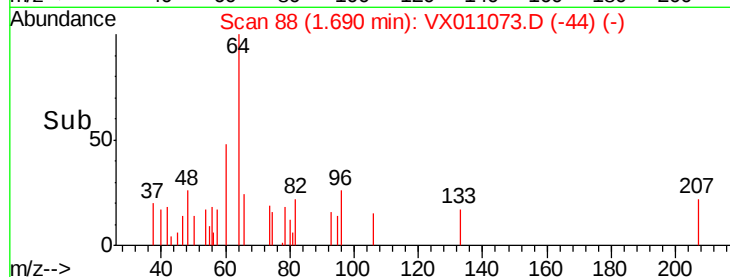
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 0.339 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

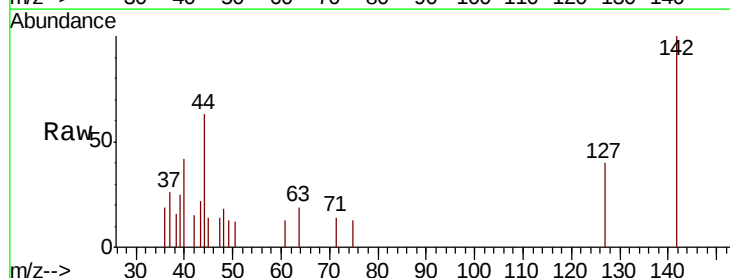
Tgt Ion:142 Resp: 826

Ion Ratio Lower Upper

142 100

127 38.4 34.2 51.4

141 10.0 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

600

500

400

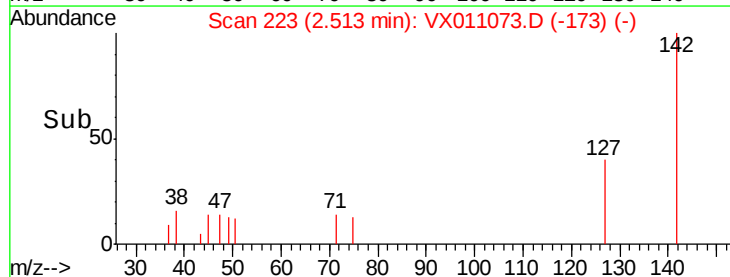
300

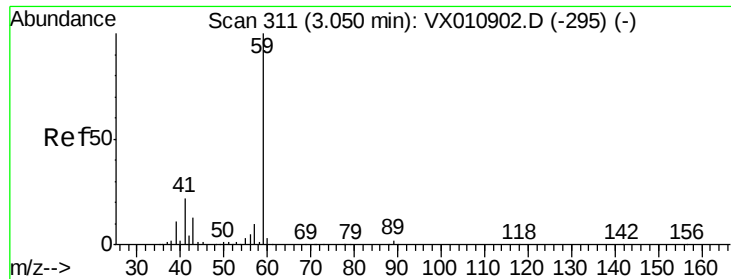
200

100

0

Time-->

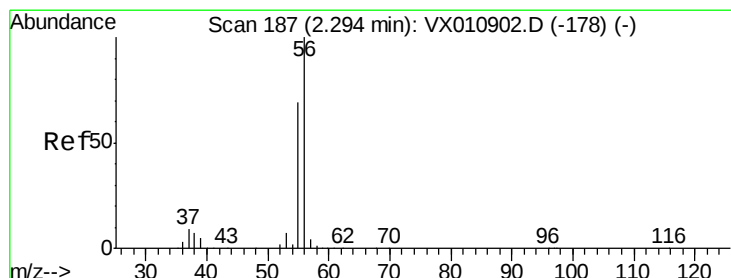
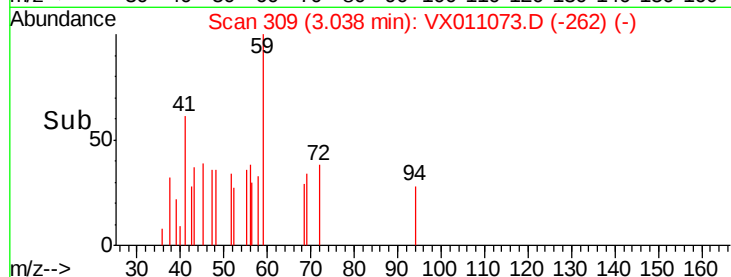
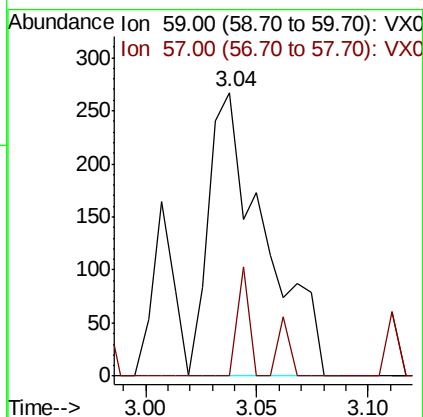
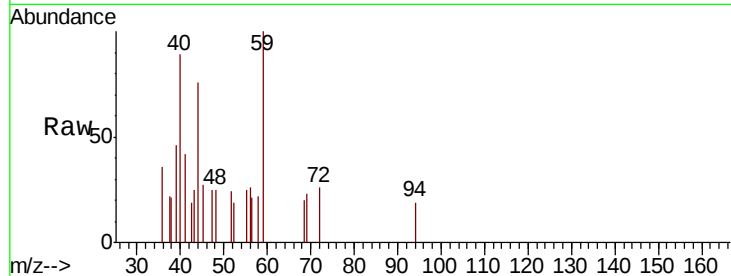




#11
Tert butvl alcohol
Concen: 0.912 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX011073.D
Acq: 25 Jul 2019 13:19

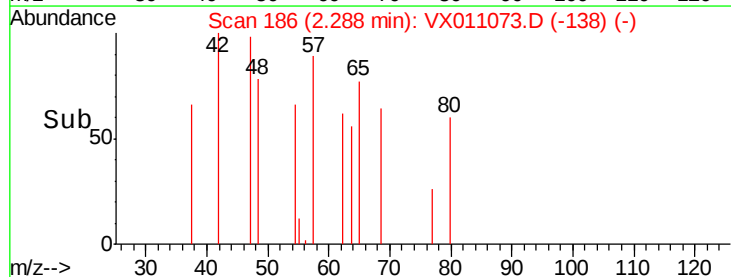
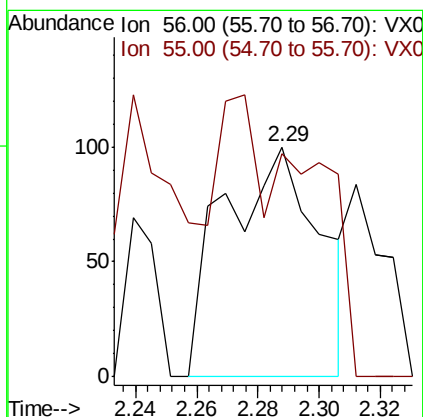
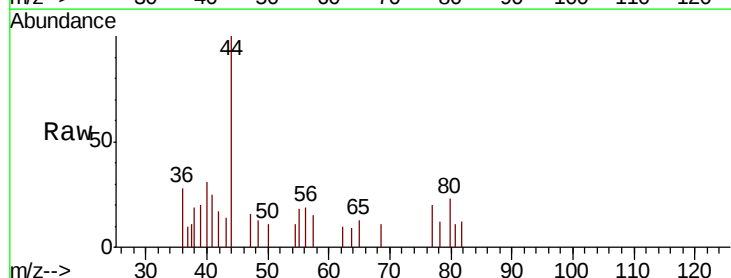
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-198-200

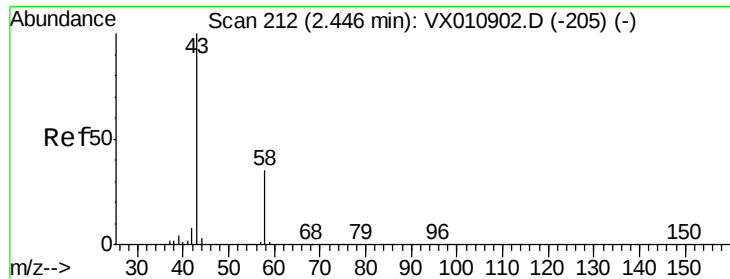
Tot Ion: 59 Resp: 463
Ion Ratio Lower Upper
59 100
57 8.2 7.9 11.9



#13
Acrolein
Concen: 0.740 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX011073.D
Acq: 25 Jul 2019 13:19

Tgt Ion: 56 Resp: 217
Ion Ratio Lower Upper
56 100
55 19.8 55.9 83.9#





#16

Acetone

Concen: 5.852 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

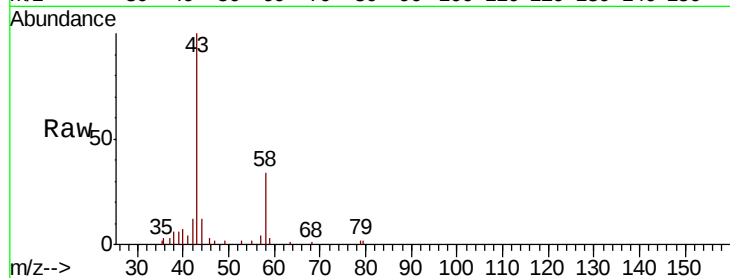
BP-VPB203-GW-198-200

Tot Ion: 43 Resp: 5763

Ion Ratio Lower Upper

43 100

58 34.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

4000

3000

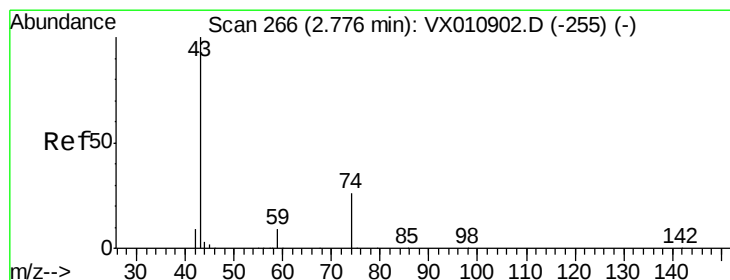
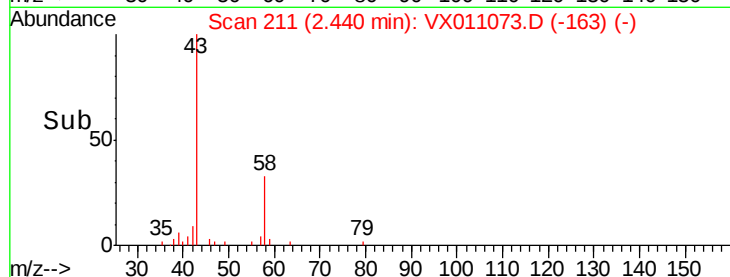
2000

1000

0

Time-->

2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.227 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX011073.D

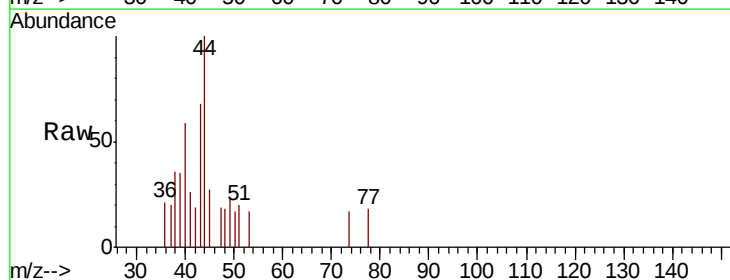
Acq: 25 Jul 2019 13:19

Tgt Ion: 43 Resp: 508

Ion Ratio Lower Upper

43 100

74 14.8 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

200

150

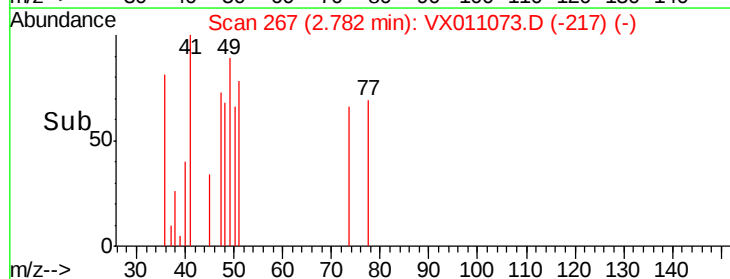
100

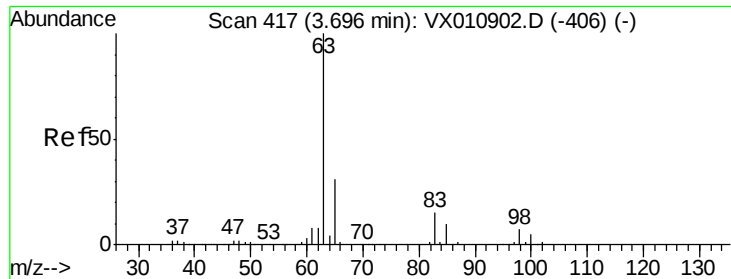
50

0

Time-->

2.75 2.80





#24

1,1-Dichloroethane

Concen: 0.379 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-198-200

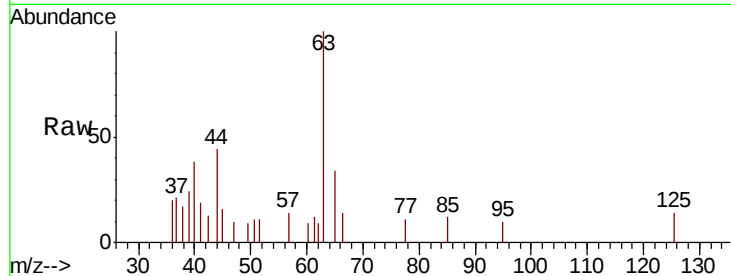
Tot Ion: 63 Resp: 1230

Ion Ratio Lower Upper

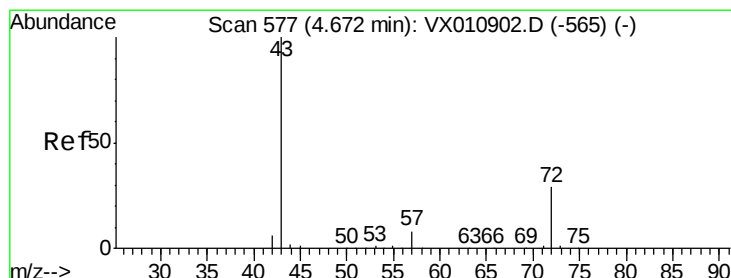
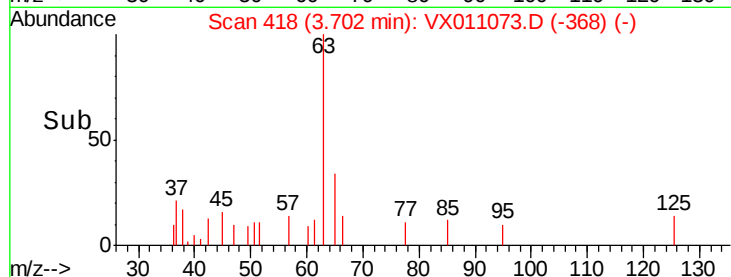
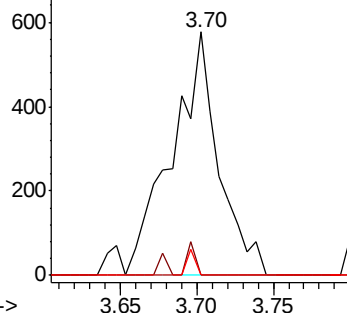
63 100

98 0.0 3.6 10.9#

100 0.0 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: 0.754 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX011073.D

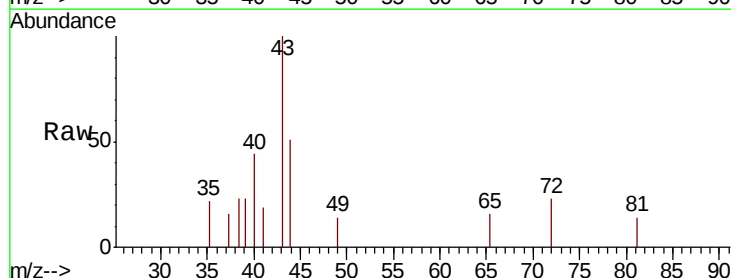
Acq: 25 Jul 2019 13:19

Tgt Ion: 43 Resp: 1066

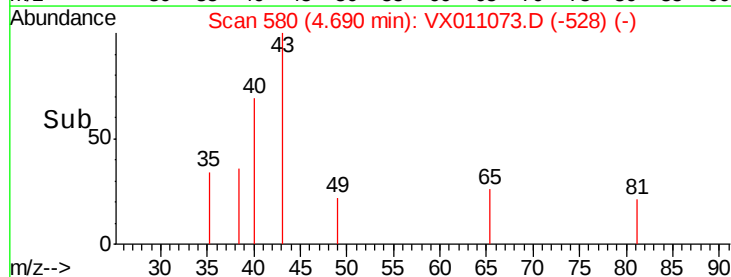
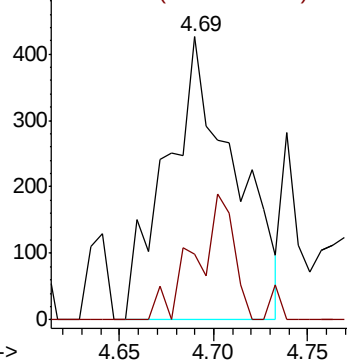
Ion Ratio Lower Upper

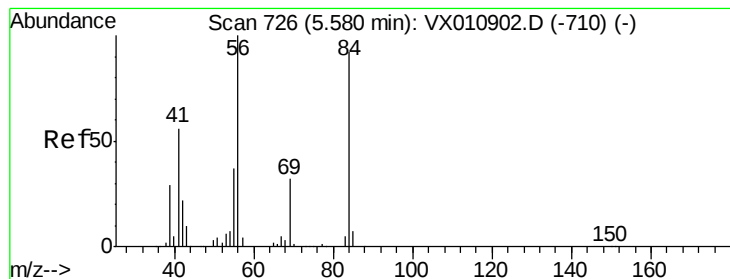
43 100

72 23.2 23.0 34.6



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





#31

Cyclohexane

Concen: 1.331 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-198-200

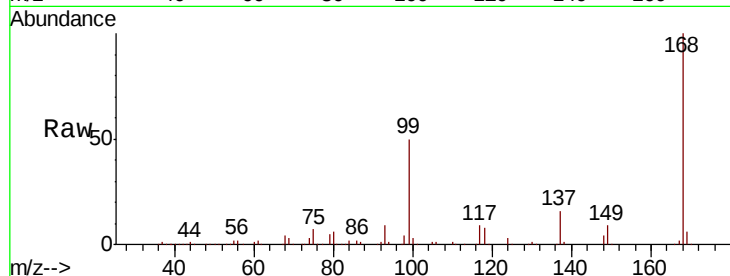
Tot Ion: 56 Resp: 3939

Ion Ratio Lower Upper

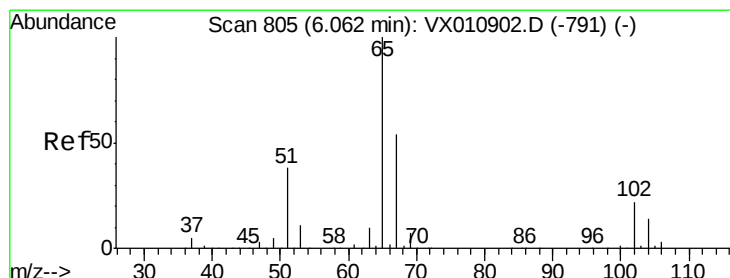
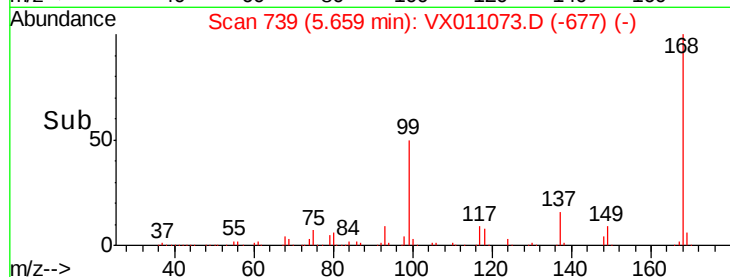
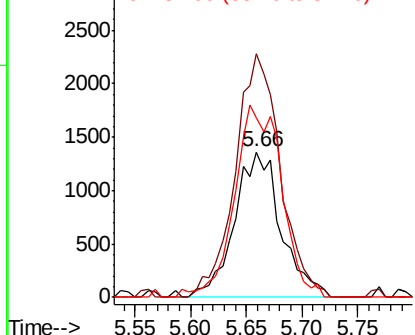
56 100

69 167.8 25.8 38.8#

84 124.1 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



#33

1,2-Dichloroethane-d4

Concen: 51.435 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX011073.D

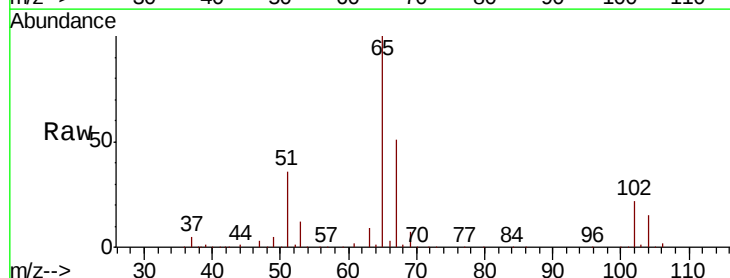
Acq: 25 Jul 2019 13:19

Tgt Ion: 65 Resp: 112144

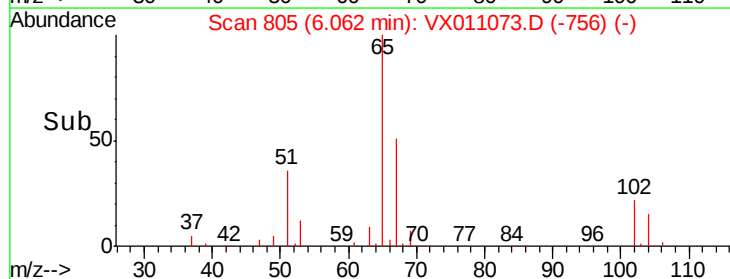
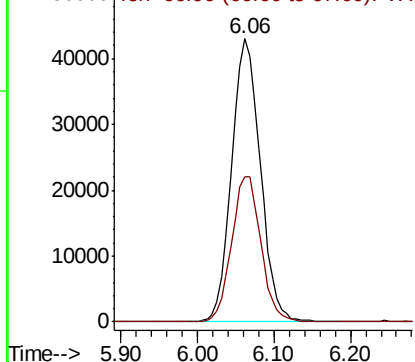
Ion Ratio Lower Upper

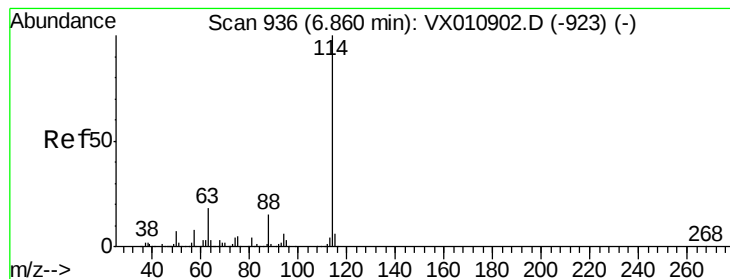
65 100

67 52.1 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: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-198-200

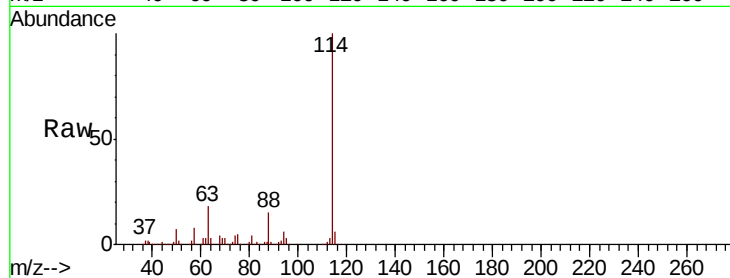
Tot Ion:114 Resp: 326961

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

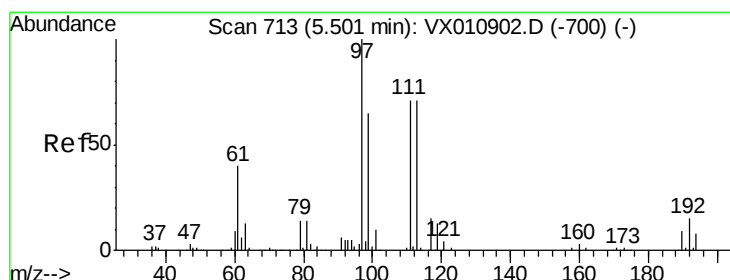
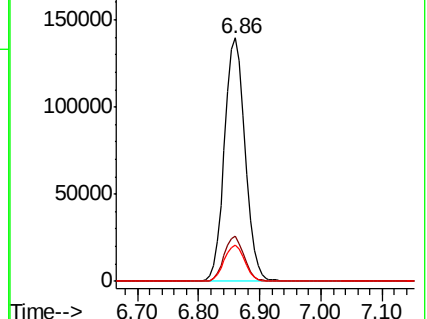
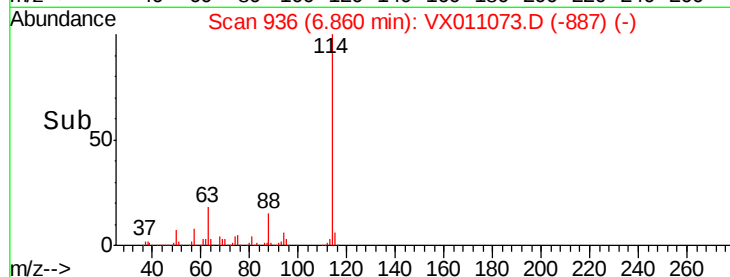
88 14.8 0.0 29.8



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: 49.444 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

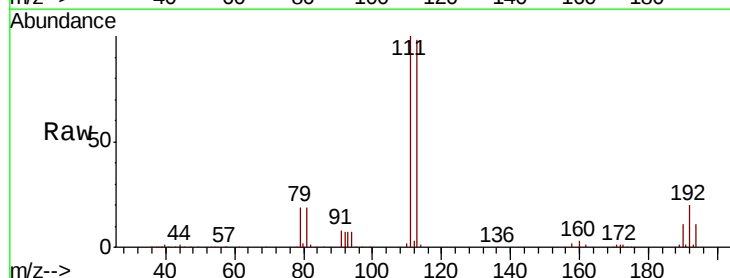
Tgt Ion:113 Resp: 102611

Ion Ratio Lower Upper

113 100

111 101.4 82.3 123.5

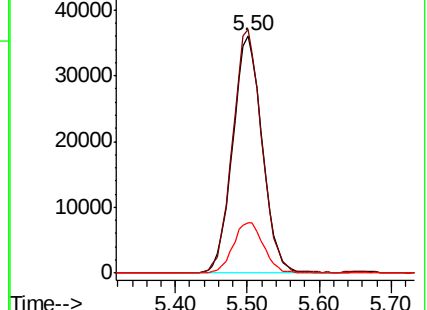
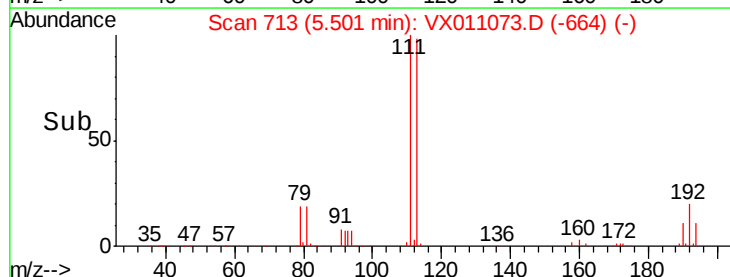
192 21.9 17.4 26.2

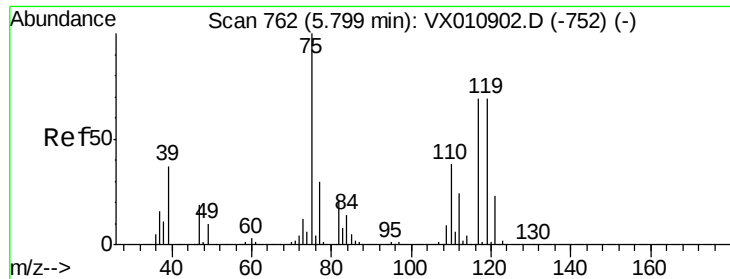


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

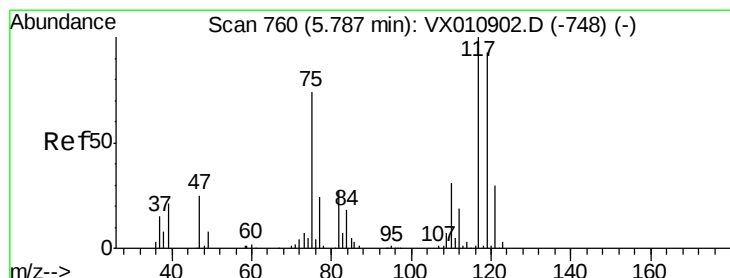
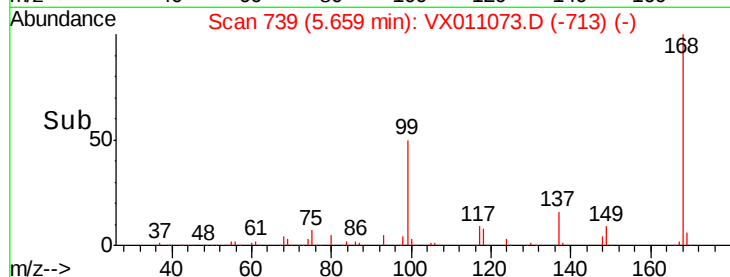
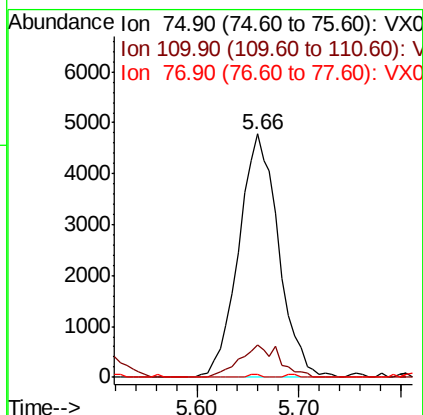
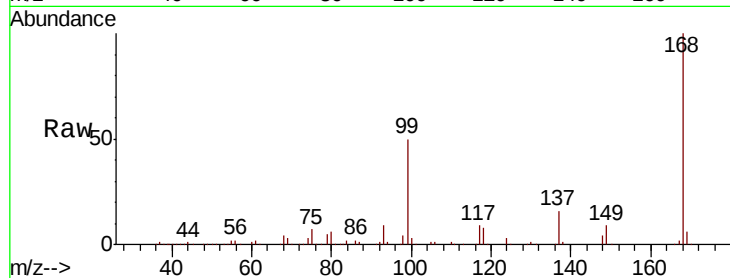




#36
 1,1-Dichloropropene
 Concen: 4.837 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011073.D
 Acq: 25 Jul 2019 13:19

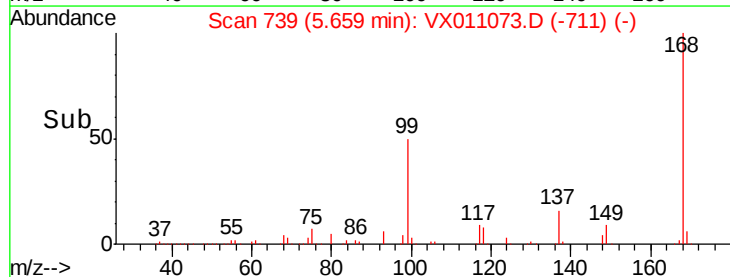
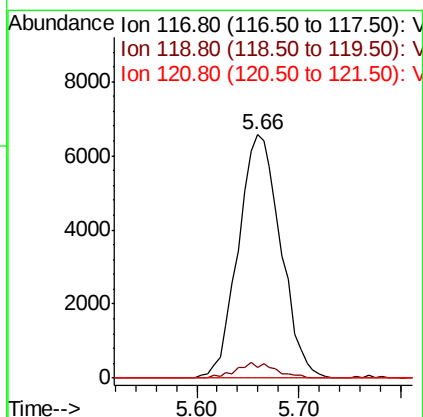
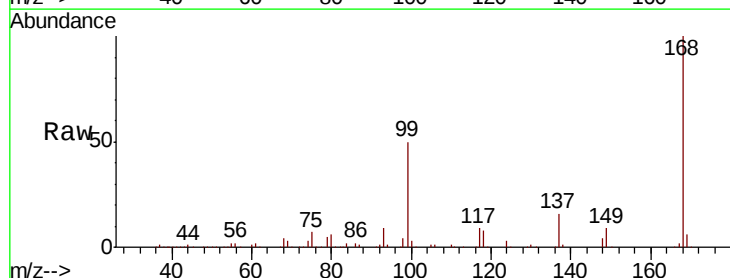
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-198-200

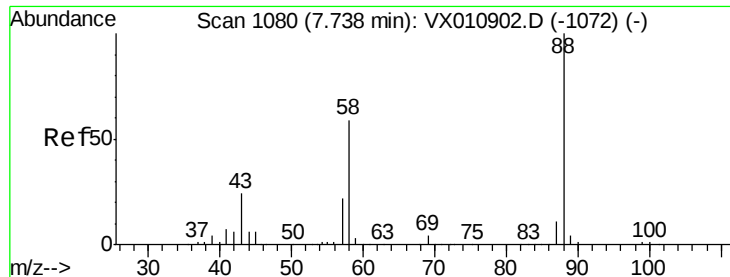
Tot Ion	Ratio	Lower	Upper
75	100		
110	13.3	19.9	59.7#
77	0.4	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.747 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011073.D
 Acq: 25 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	74.2	111.2#
121	0.0	24.2	36.2#

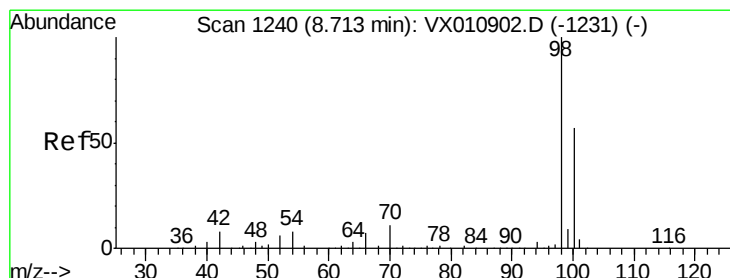
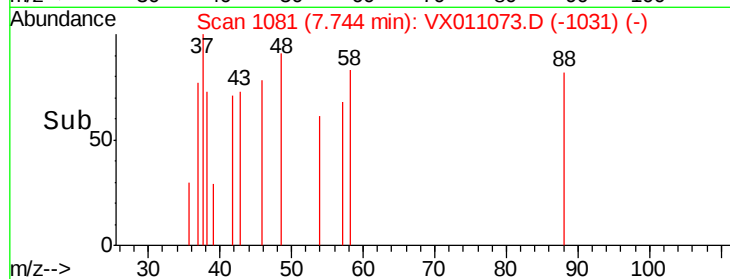
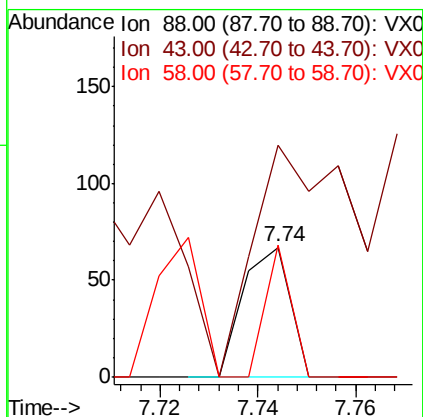
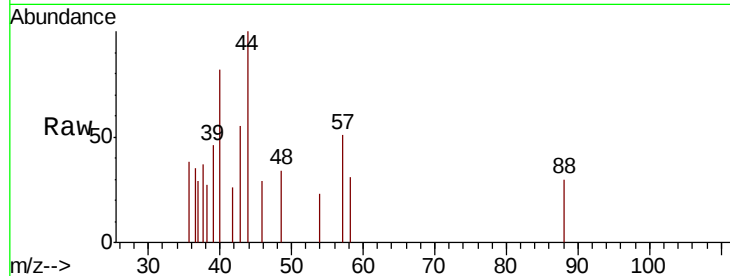




#49
 1,4-Dioxane
 Concen: 0.730 ug/l
 RT: 7.74 min Scan# 1081
 Delta R.T. 0.01 min
 Lab File: VX011073.D
 Acq: 25 Jul 2019 13:19

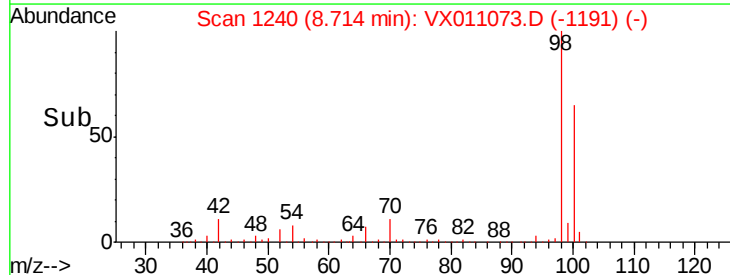
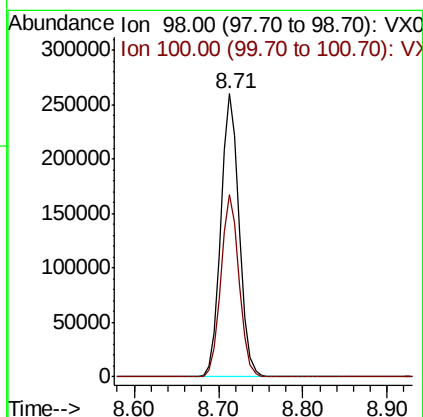
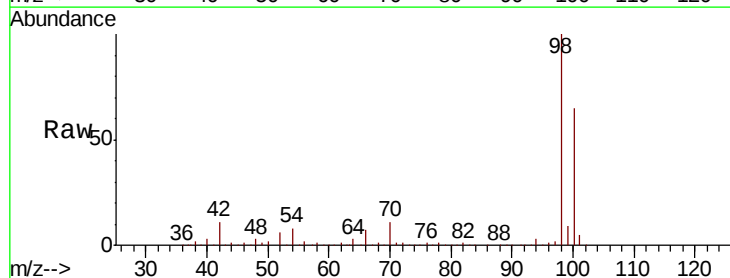
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB203-GW-198-200

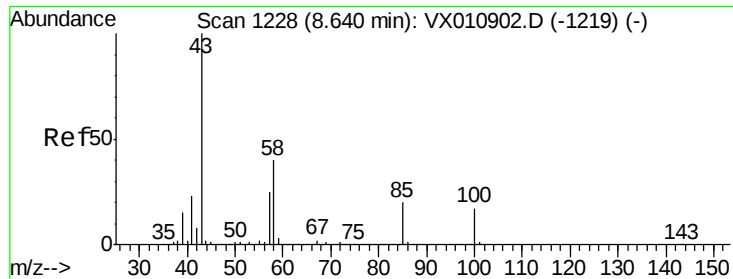
Tot Ion: 88 Resp: 45
 Ion Ratio Lower Upper
 88 100
 43 366.7 22.9 34.3#
 58 55.6 49.8 74.8



#50
 Toluene-d8
 Concen: 50.324 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX011073.D
 Acq: 25 Jul 2019 13:19

Tgt Ion: 98 Resp: 391702
 Ion Ratio Lower Upper
 98 100
 100 64.1 50.6 75.8

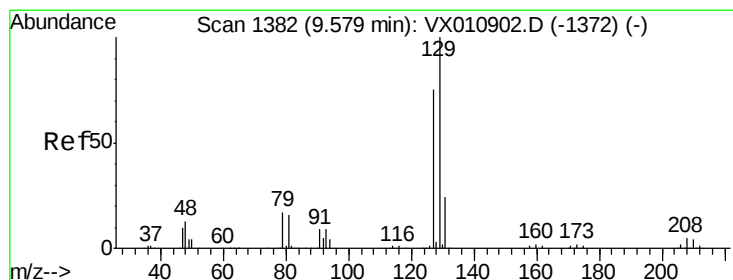
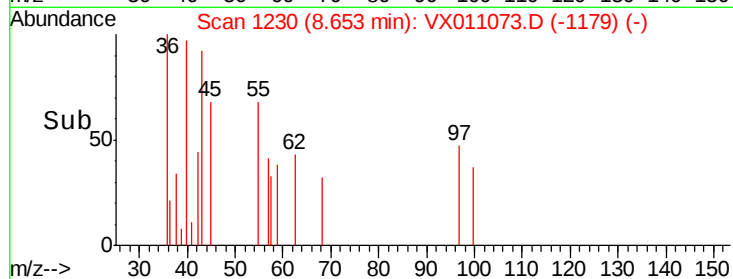
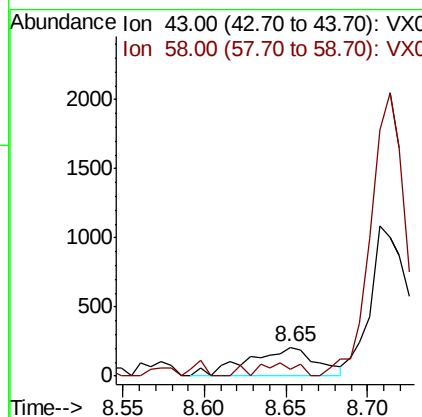
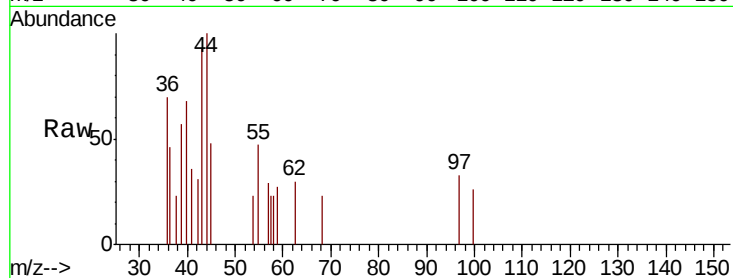




#51
4-Methyl-2-Pentanone
Concen: 0.209 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.01 min
Lab File: VX011073.D
Acq: 25 Jul 2019 13:19

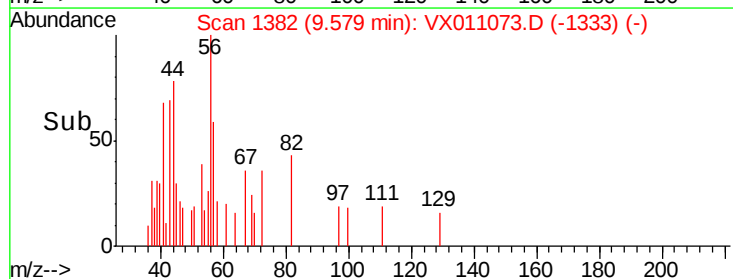
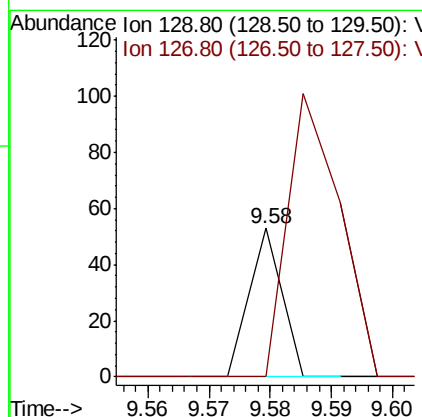
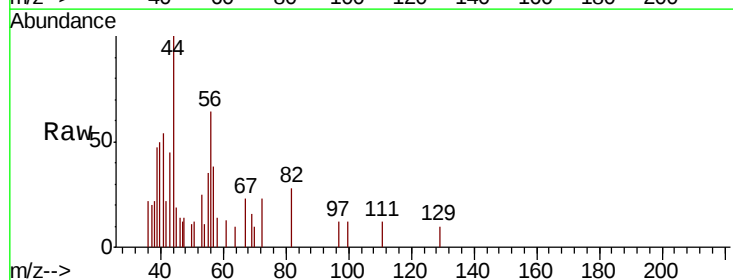
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-198-200

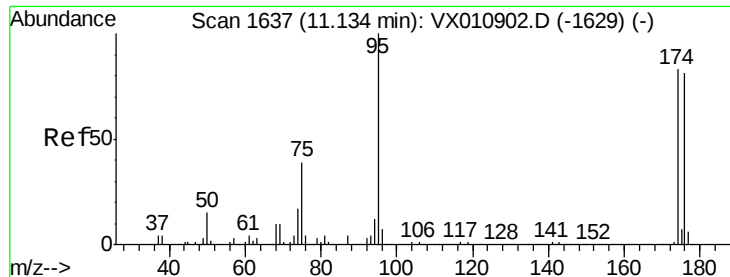
Tot Ion: 43 Resp: 612
Ion Ratio Lower Upper
43 100
58 27.6 32.2 48.4#



#60
Dibromochloromethane
Concen: 2.535 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX011073.D
Acq: 25 Jul 2019 13:19

Tgt Ion:129 Resp: 19
Ion Ratio Lower Upper
129 100
127 315.8 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 49.075 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB203-GW-198-200

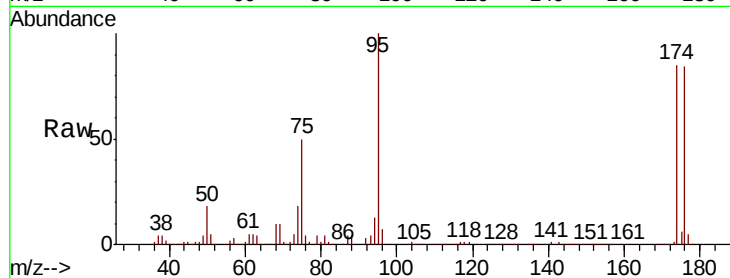
Tot Ion: 95 Resp: 140406

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.6

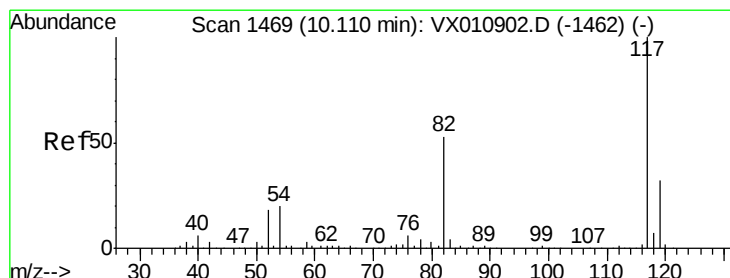
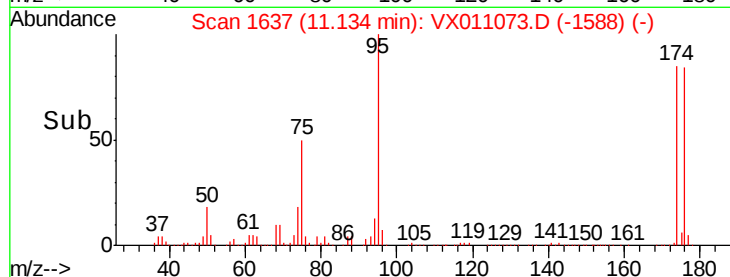
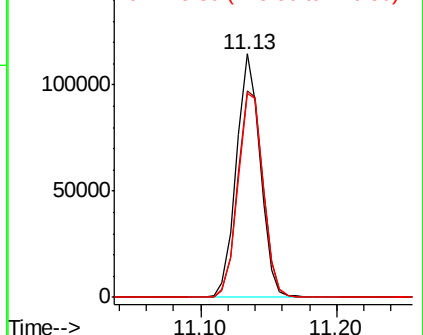
176 88.5 0.0 173.8



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: VX011073.D

Acq: 25 Jul 2019 13:19

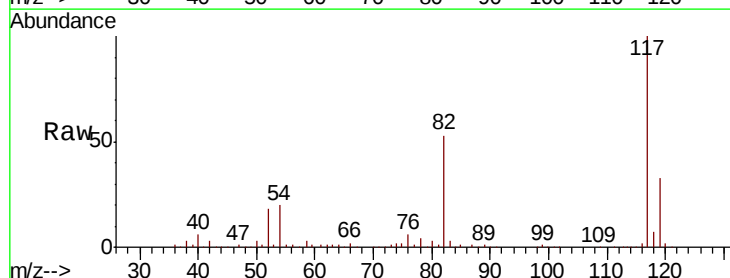
Tgt Ion: 117 Resp: 306449

Ion Ratio Lower Upper

117 100

82 53.0 42.6 63.8

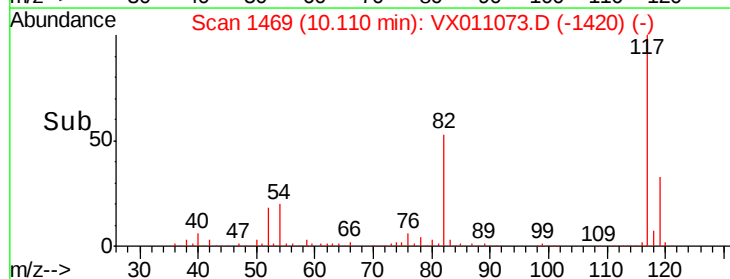
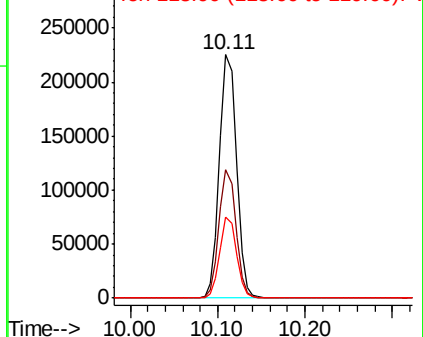
119 33.1 25.9 38.9

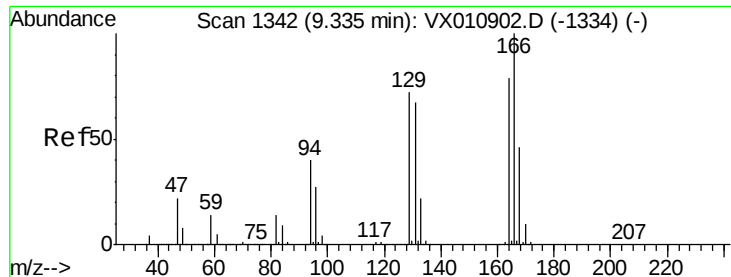


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

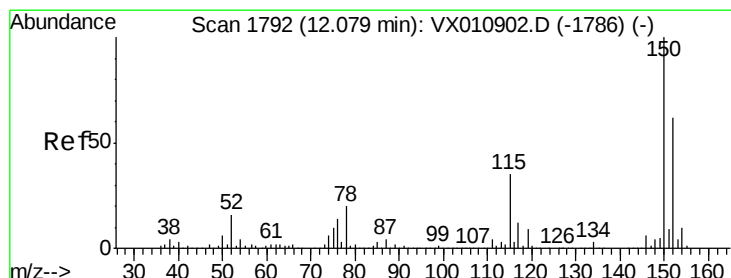
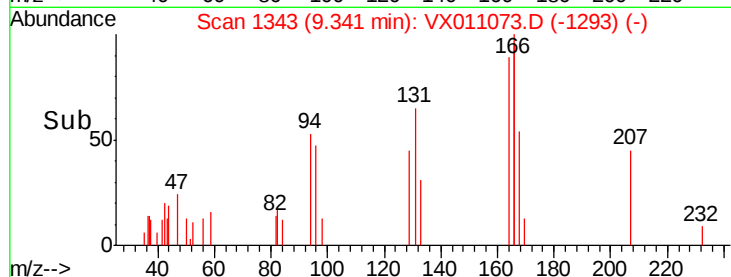
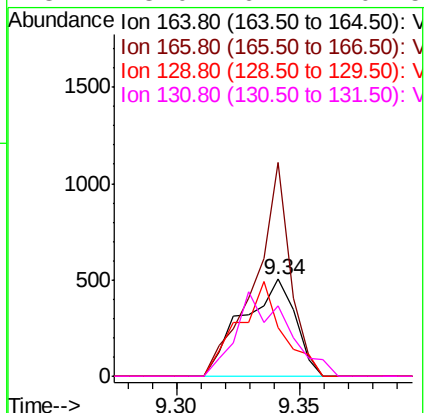
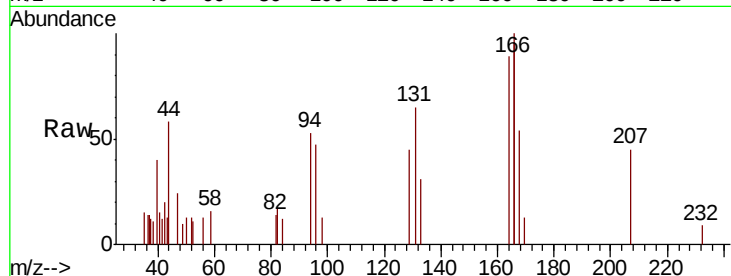




#64
Tetrachloroethene
Concen: 0.312 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX011073.D
Acq: 25 Jul 2019 13:19

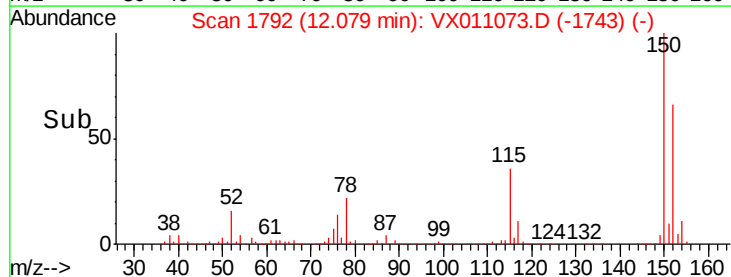
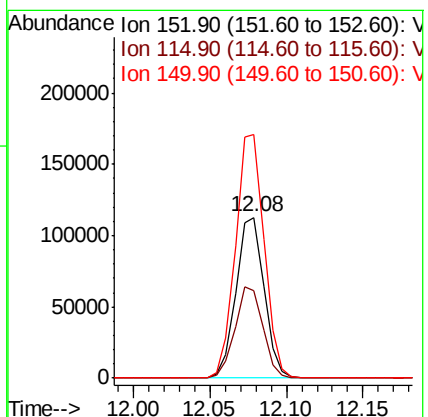
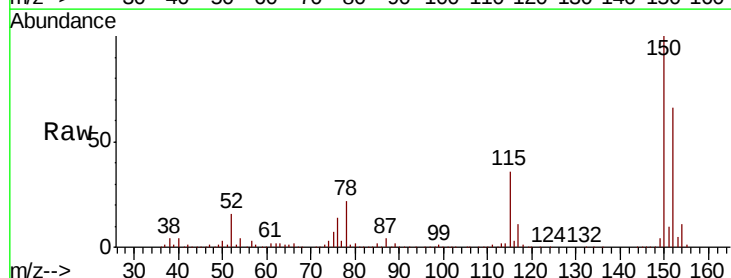
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB203-GW-198-200

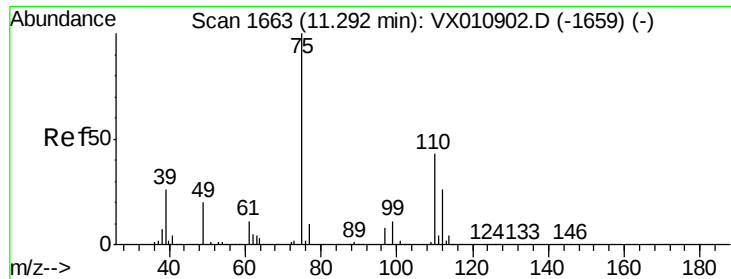
Tot Ion:164 Resp: 752
Ion Ratio Lower Upper
164 100
166 220.0 100.8 151.2#
129 50.6 72.6 109.0#
131 73.0 67.7 101.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011073.D
Acq: 25 Jul 2019 13:19

Tgt Ion:152 Resp: 143536
Ion Ratio Lower Upper
152 100
115 56.3 39.7 119.1
150 154.6 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 27.043 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

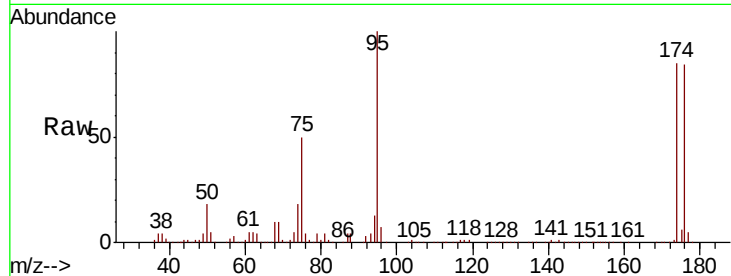
BP-VPB203-GW-198-200

Tot Ion: 75 Resp: 70047

Ion Ratio Lower Upper

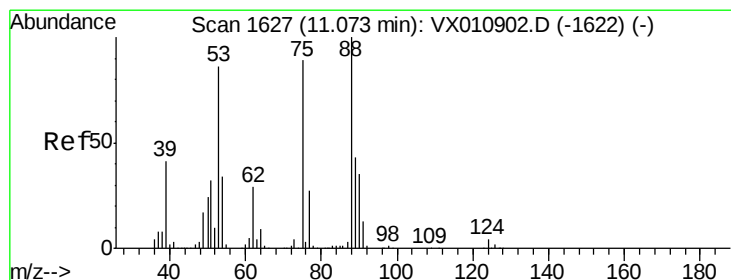
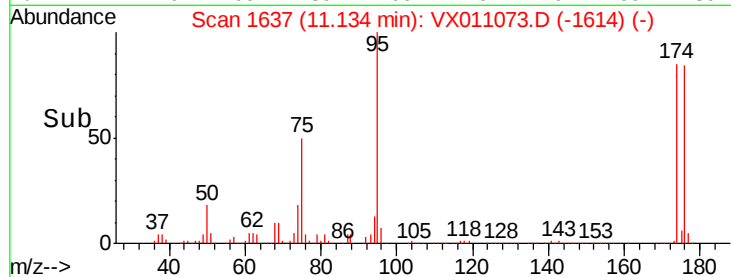
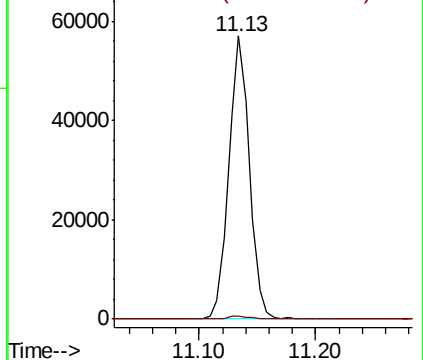
75 100

77 1.3 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: 67.042 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011073.D

Acq: 25 Jul 2019 13:19

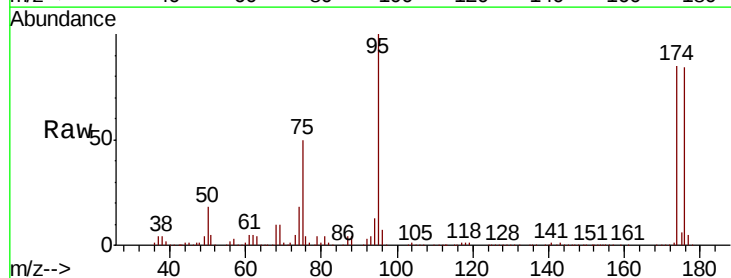
Tgt Ion: 75 Resp: 70047

Ion Ratio Lower Upper

75 100

53 0.0 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

