

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009675.D
 Acq On : 17 May 2019 20:29
 Operator : JC/SP
 Sample : K2891-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-498-500

Quant Time: May 18 04:53:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	163823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	260315	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	227114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	93473	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	109606	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.50	113	78930	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	8.71	98	327008	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.13	95	105639	44.00	ug/l	0.00
Spiked Amount			Recovery	=	88.00%	

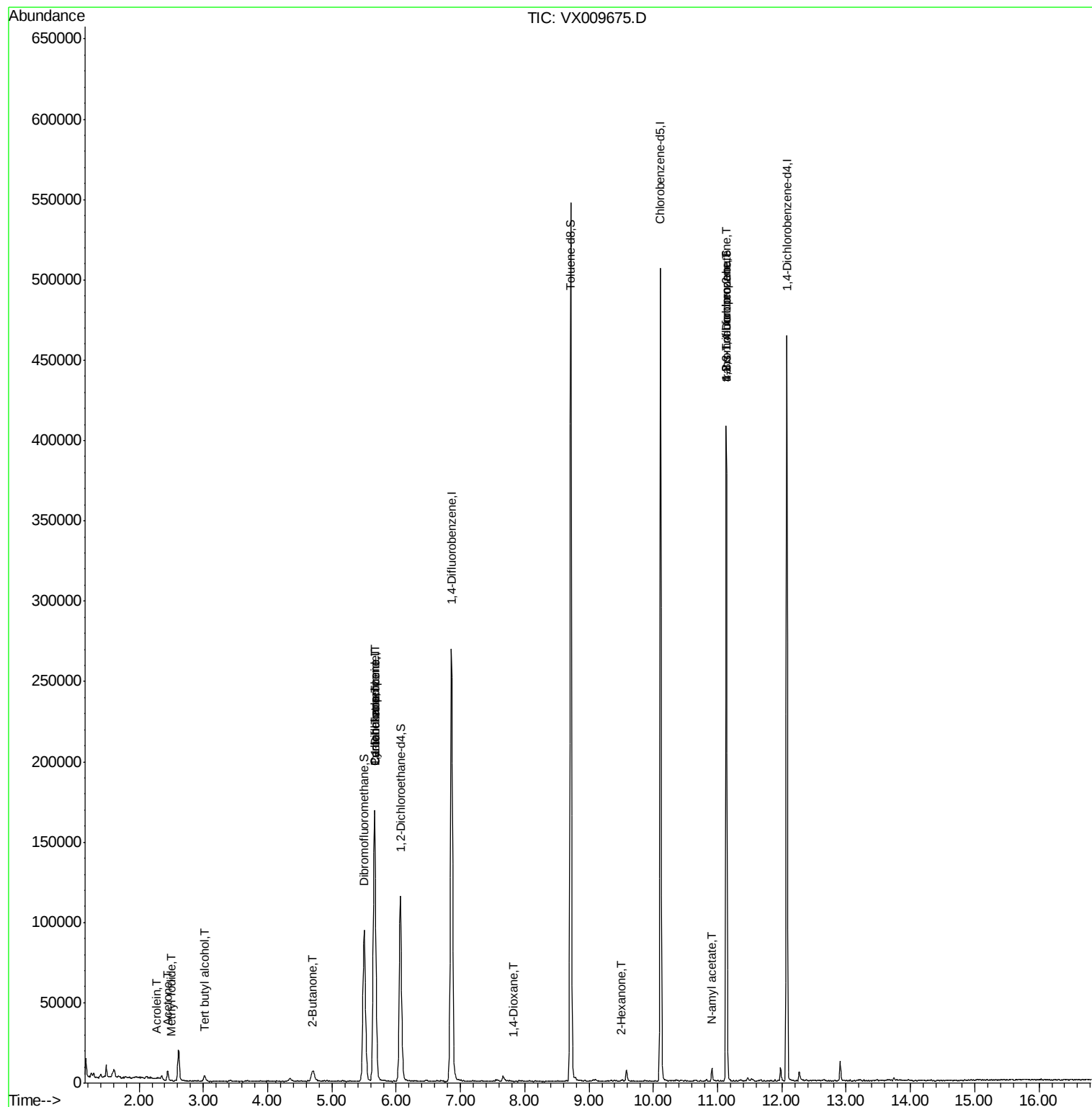
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	21	4.605	ug/l #	42
11) Tert butyl alcohol	3.01	59	2159	4.171	ug/l #	75
13) Acrolein	2.27	56	178	0.380	ug/l #	71
16) Acetone	2.45	43	7177	5.977	ug/l	98
25) 2-Butanone	4.69	43	2481	1.330	ug/l	92
28) Bromochloromethane	5.02	49	64	Below Cal	#	20
31) Cyclohexane	5.67	56	3778	1.143	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12053	4.982	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15046	6.845	ug/l #	15
49) 1,4-Dioxane	7.83	88	19	0.350	ug/l #	1
59) 2-Hexanone	9.50	43	820	0.296	ug/l	99
74) N-amyl acetate	10.91	43	1307	0.330	ug/l #	18
76) 1,2,3-Trichloropropane	11.13	75	54377	25.079	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	54377	64.168	ug/l #	10

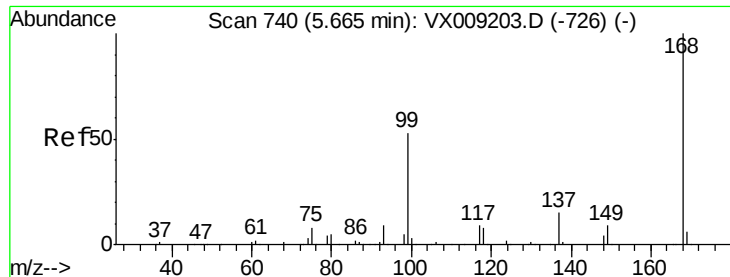
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

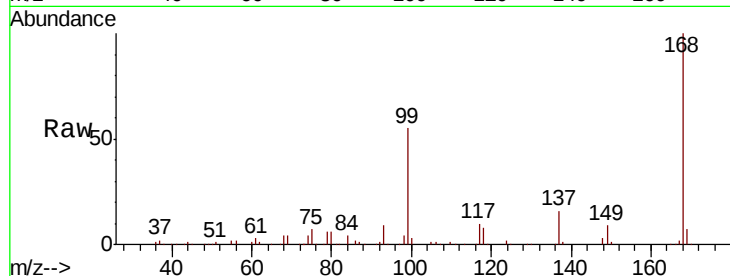
BP-VPB202-GW-498-500

Tot Ion:168 Resp: 163823

Ion Ratio Lower Upper

168 100

99 54.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

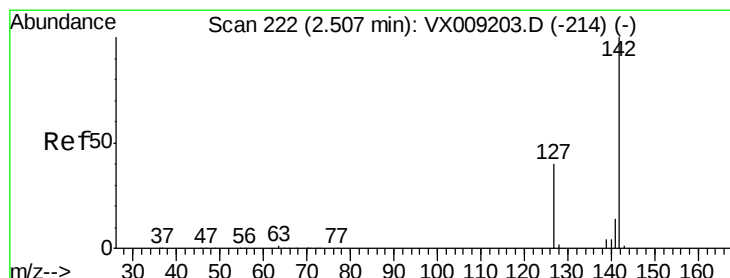
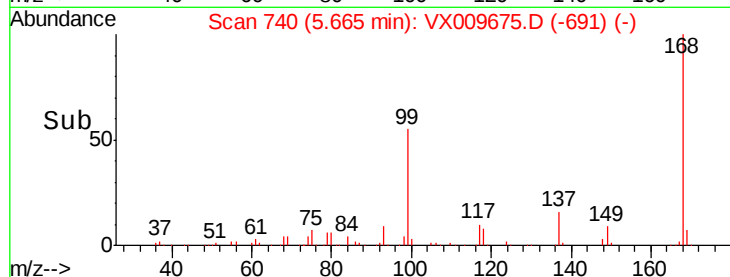
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 4.605 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

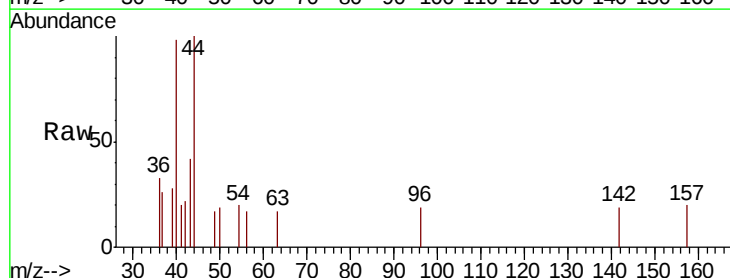
Tgt Ion:142 Resp: 21

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

141 0.0 11.5 17.3#



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

2.51

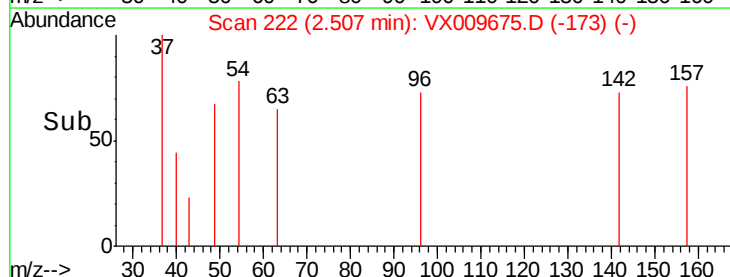
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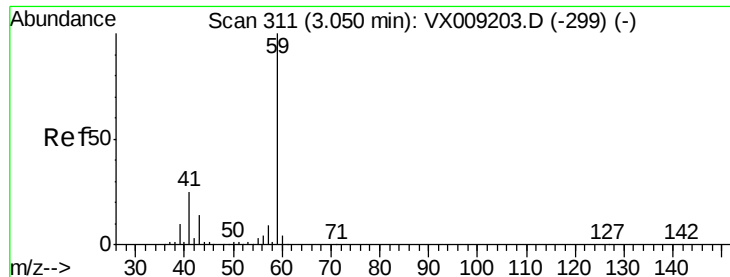
40

20

0

Time--> 2.49 2.50 2.51 2.52

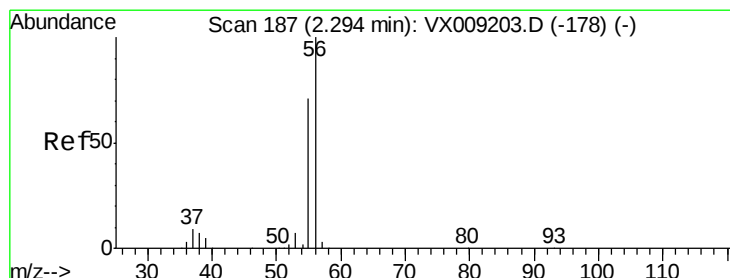
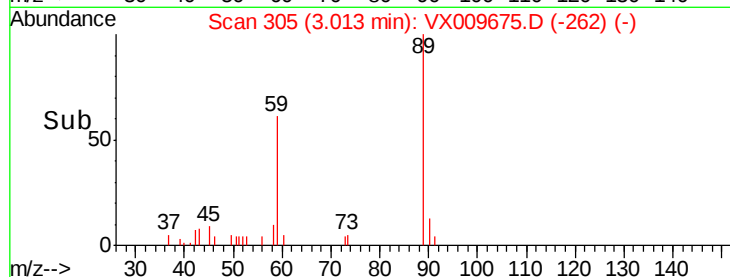
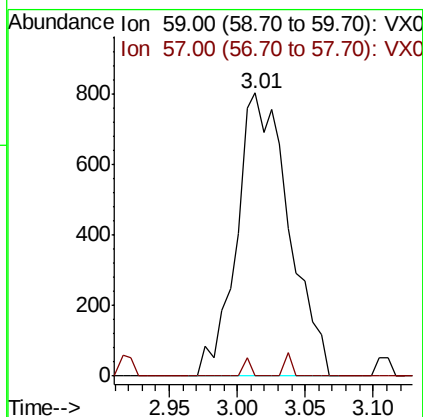
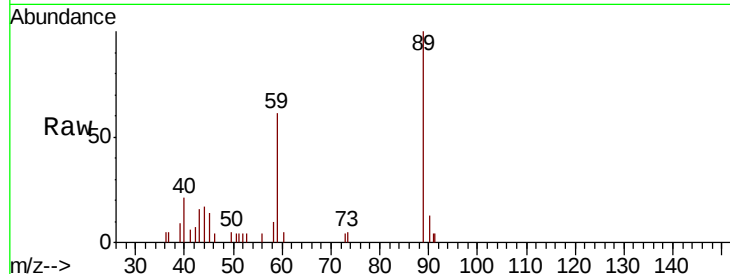




#11
Tert butyl alcohol
Concen: 4.171 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009675.D
Acq: 17 May 2019 20:29

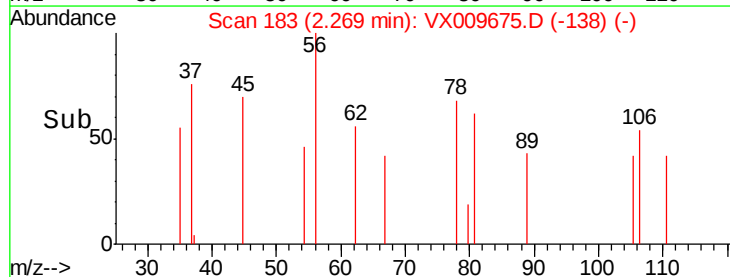
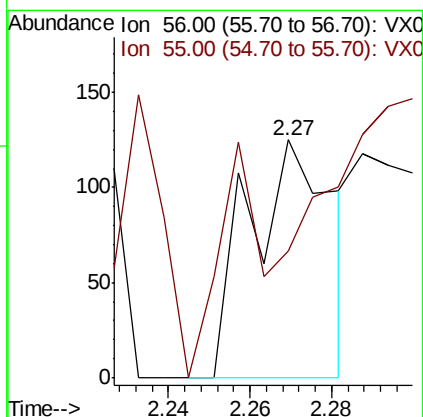
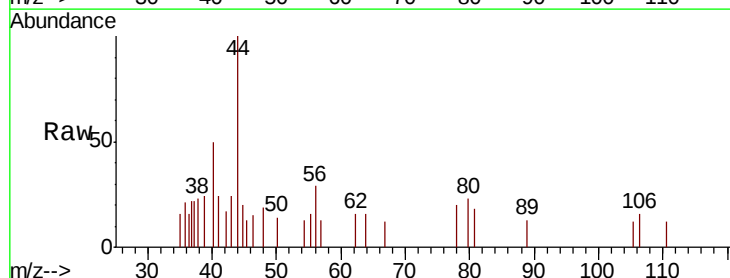
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-498-500

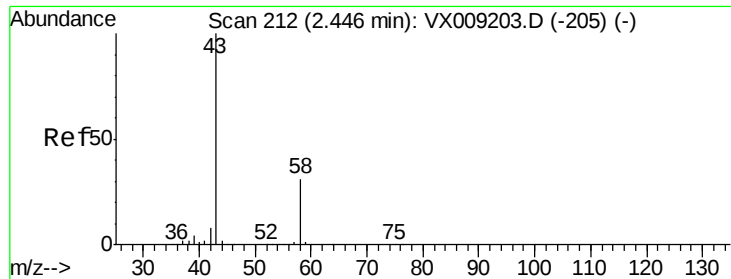
Tot Ion: 59 Resp: 2159
Ion Ratio Lower Upper
59 100
57 0.9 8.2 12.2#



#13
Acrolein
Concen: 0.380 ug/l
RT: 2.27 min Scan# 183
Delta R.T. -0.02 min
Lab File: VX009675.D
Acq: 17 May 2019 20:29

Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 47.2 56.6 85.0#





#16

Acetone

Concen: 5.977 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

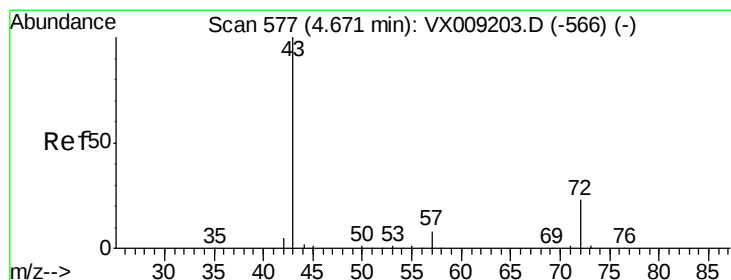
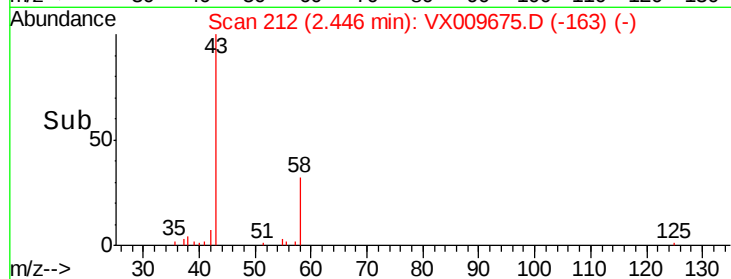
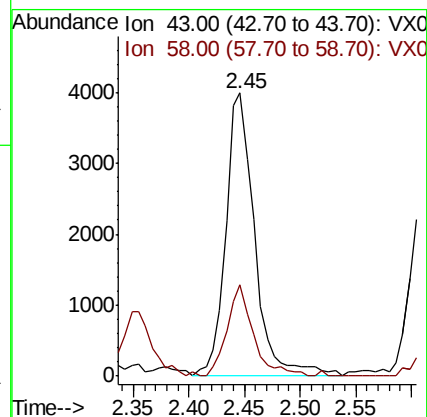
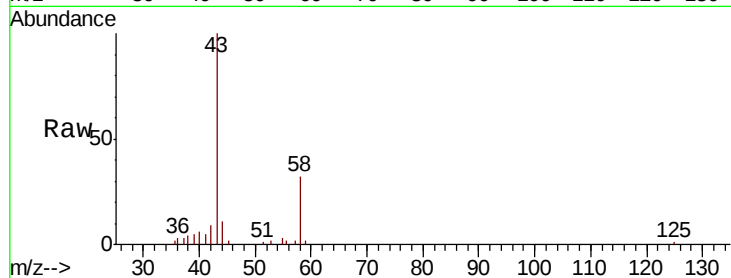
BP-VPB202-GW-498-500

Tot Ion: 43 Resp: 7177

Ion Ratio Lower Upper

43 100

58 32.3 24.9 37.3



#25

2-Butanone

Concen: 1.330 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009675.D

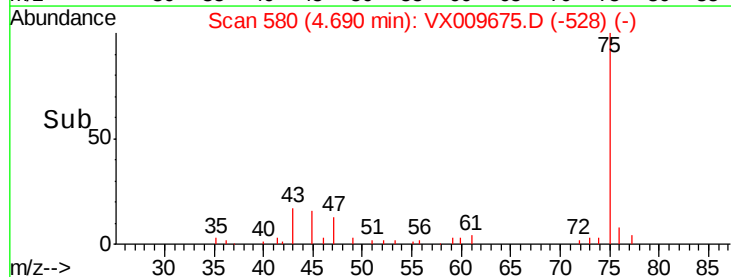
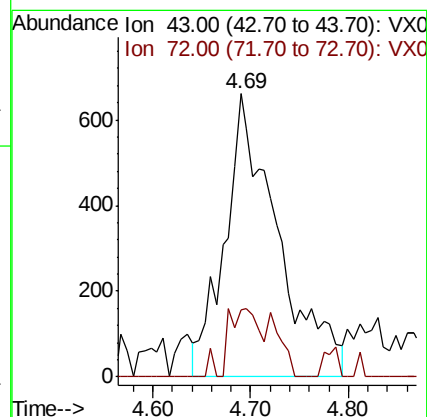
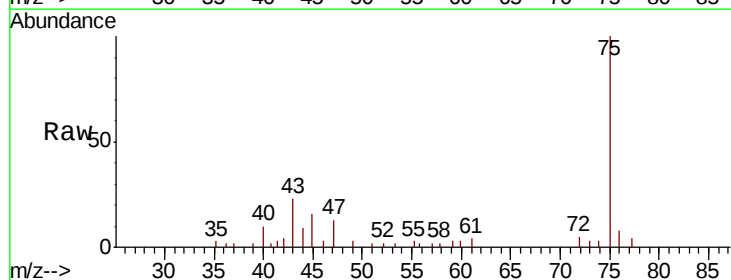
Acq: 17 May 2019 20:29

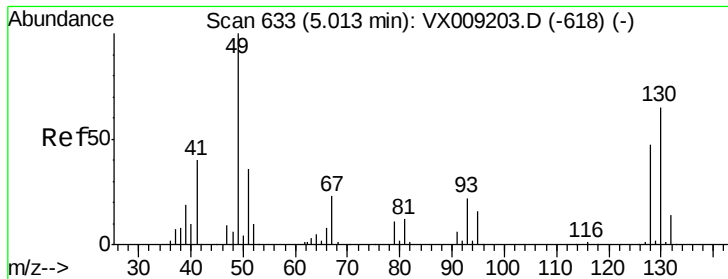
Tgt Ion: 43 Resp: 2481

Ion Ratio Lower Upper

43 100

72 26.5 18.2 27.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-498-500

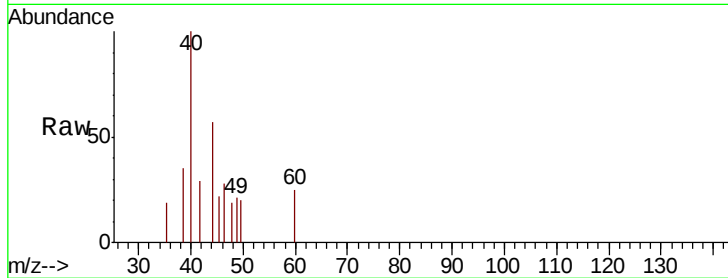
Tot Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

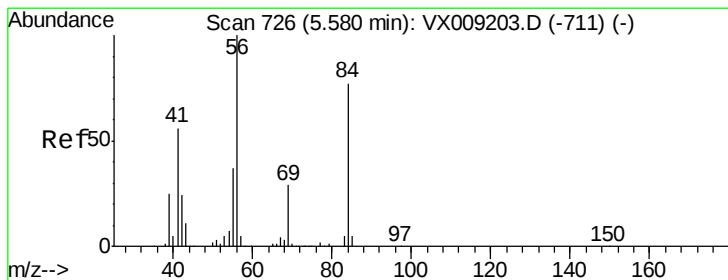
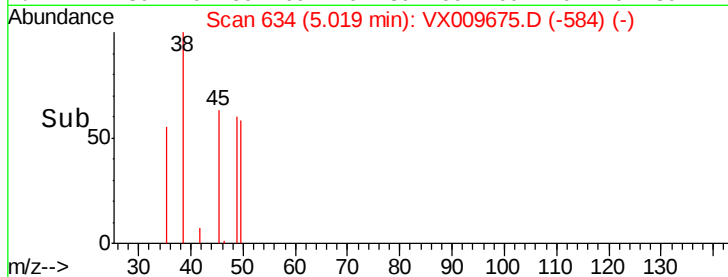
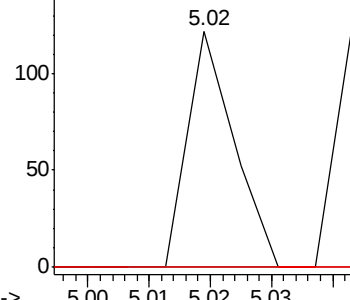
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.143 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

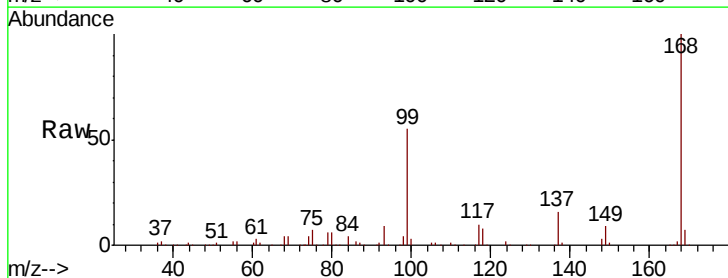
Tgt Ion: 56 Resp: 3778

Ion Ratio Lower Upper

56 100

69 176.4 23.4 35.0#

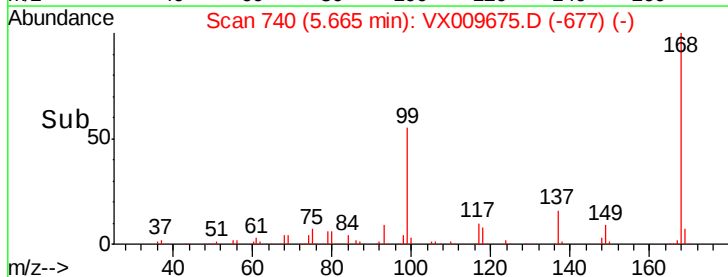
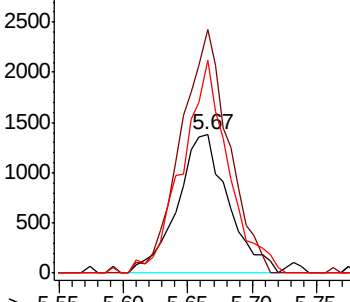
84 154.6 61.9 92.9#



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: 49.010 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

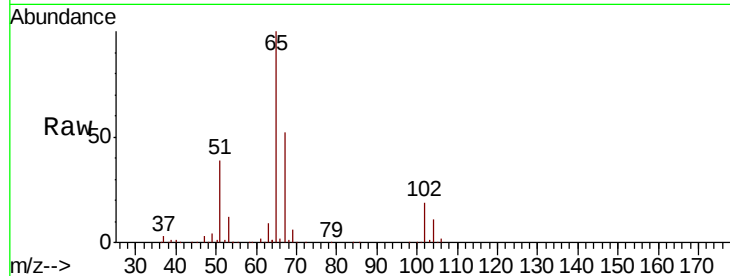
BP-VPB202-GW-498-500

Tot Ion: 65 Resp: 109606

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.6

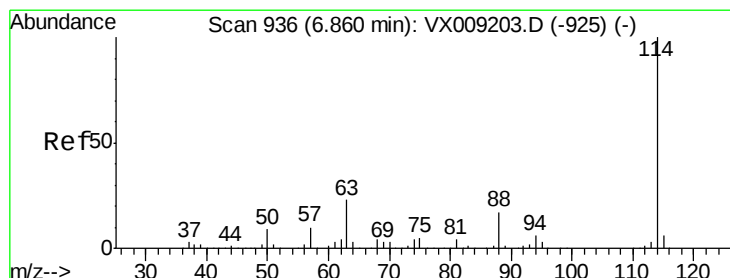
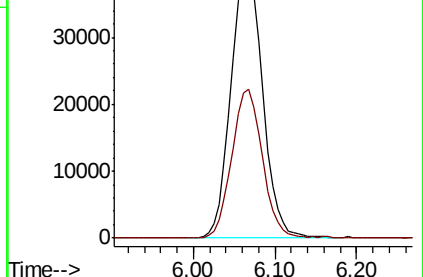
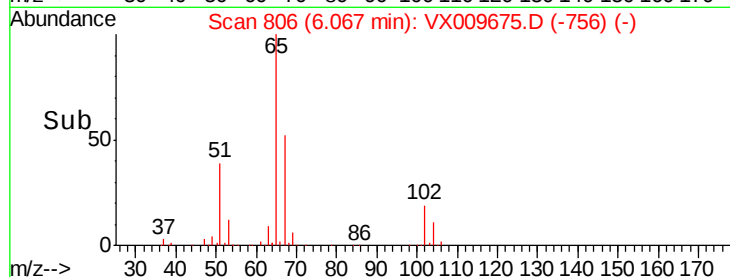


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

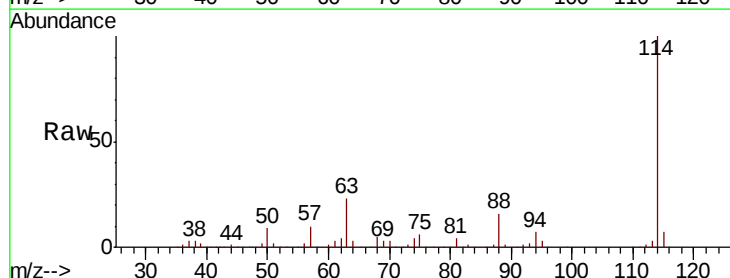
Tgt Ion: 114 Resp: 260315

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.6

88 16.4 0.0 33.2



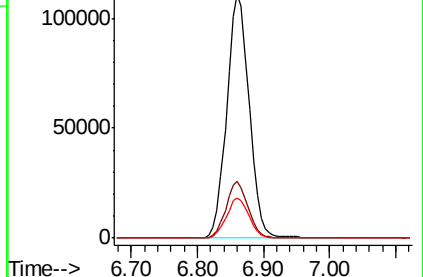
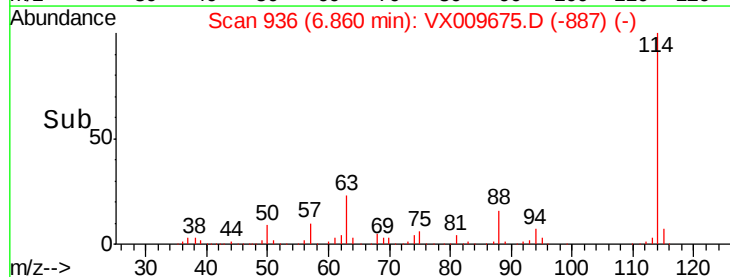
Abundance Ion 113.90 (113.60 to 114.60): V

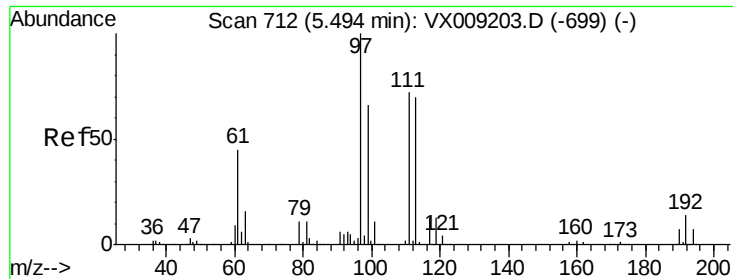
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

Time-->

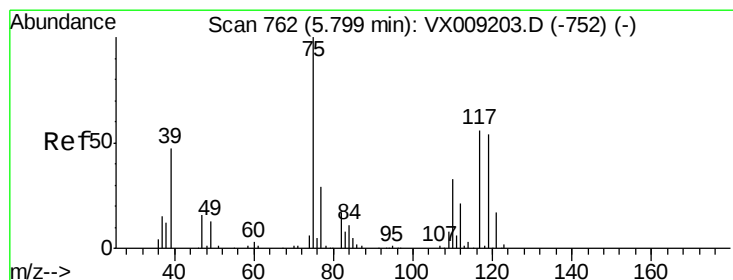
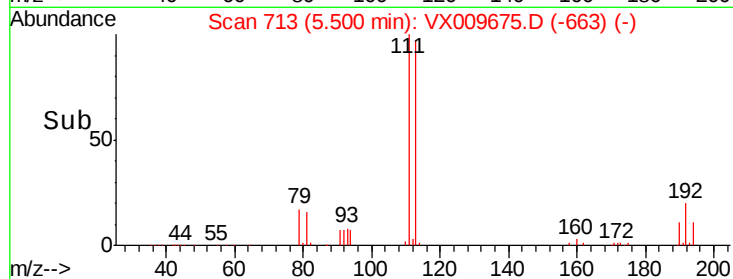
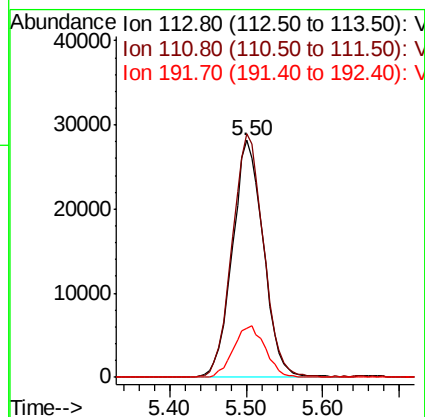
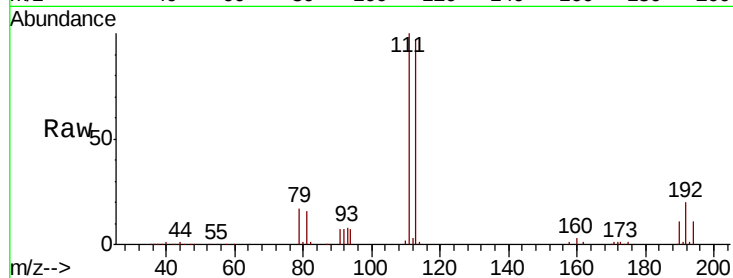




#35
 Dibromofluoromethane
 Concen: 48.233 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009675.D
 Acq: 17 May 2019 20:29

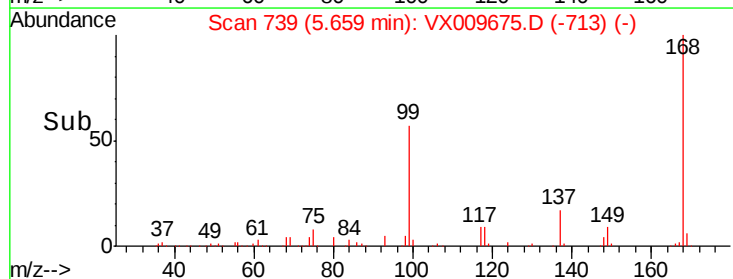
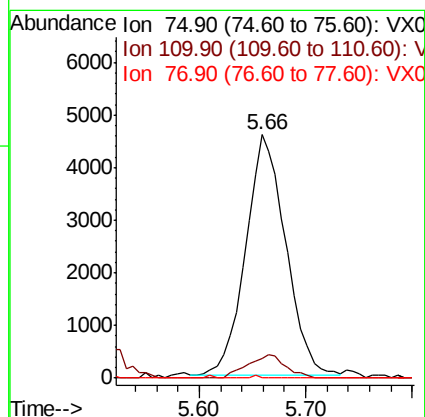
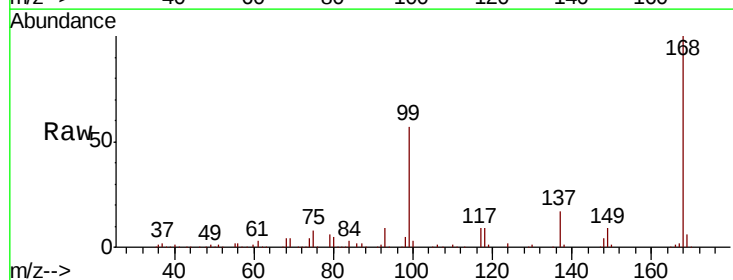
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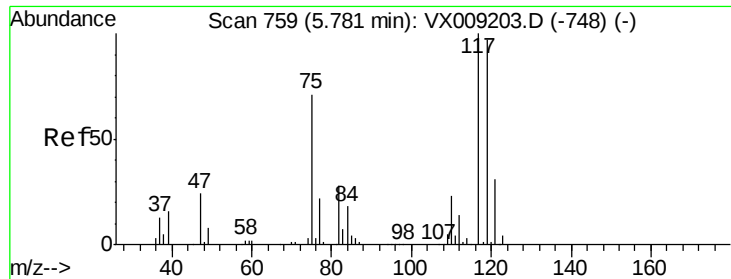
Tot Ion:113 Resp: 78930
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.8 124.2
 192 22.4 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 4.982 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009675.D
 Acq: 17 May 2019 20:29

Tgt Ion: 75 Resp: 12053
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.9 50.6#
 77 0.2 24.8 37.2#

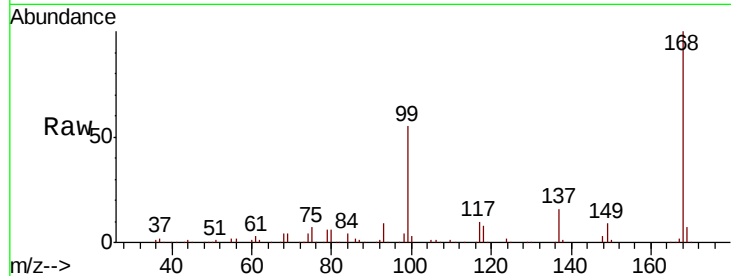




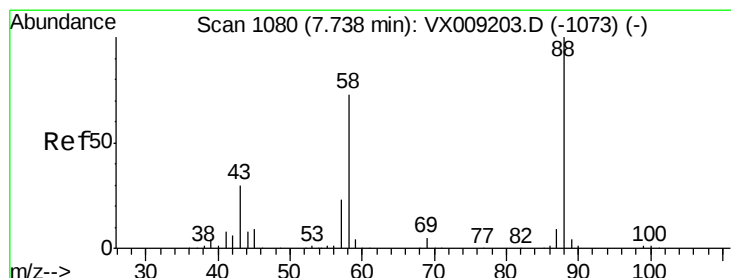
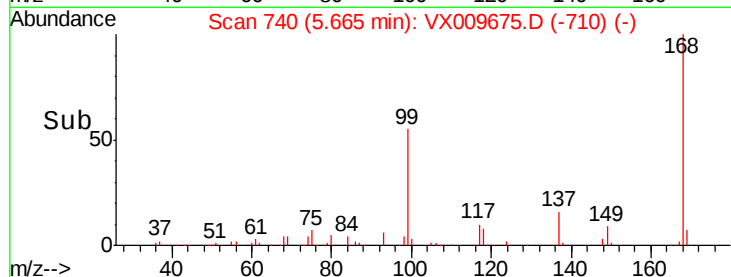
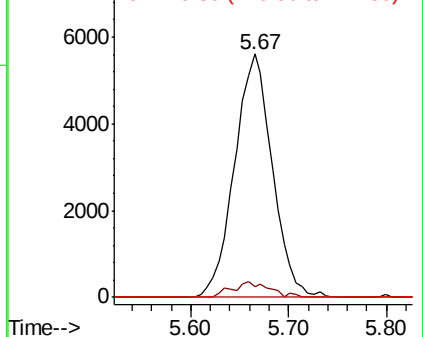
#38
Carbon Tetrachloride
Concen: 6.845 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009675.D
Acq: 17 May 2019 20:29

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-498-500

Tot Ion:117 Resp: 15046
Ion Ratio Lower Upper
117 100
119 4.2 77.5 116.3#
121 0.0 24.7 37.1#

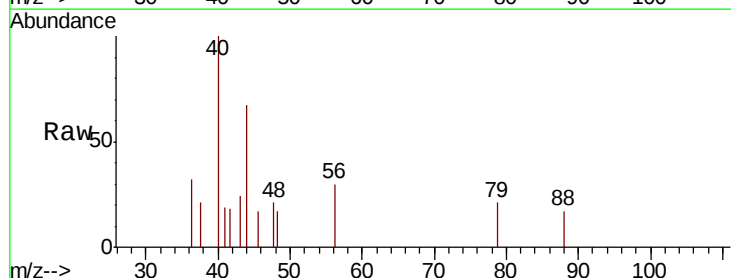


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

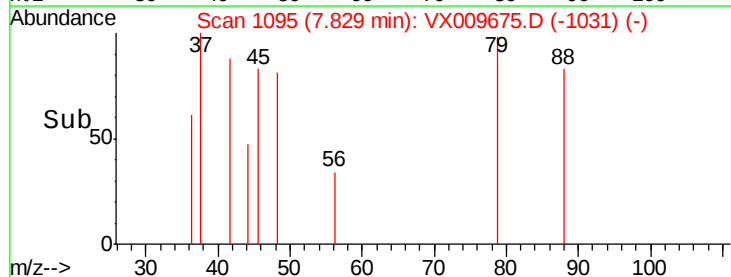
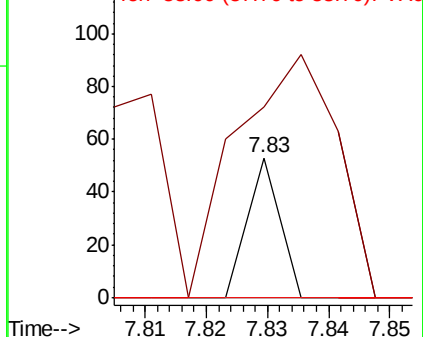


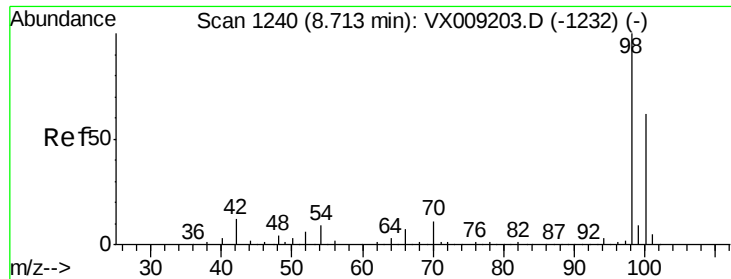
#49
1,4-Dioxane
Concen: 0.350 ug/l
RT: 7.83 min Scan# 1095
Delta R.T. 0.09 min
Lab File: VX009675.D
Acq: 17 May 2019 20:29

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 552.6 28.6 42.8#
58 0.0 61.7 92.5#



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: 49.496 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

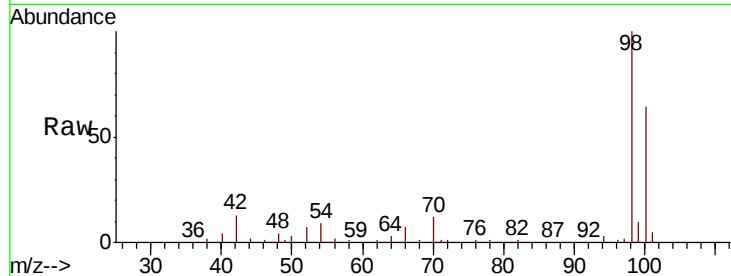
BP-VPB202-GW-498-500

Tot Ion: 98 Resp: 327008

Ion Ratio Lower Upper

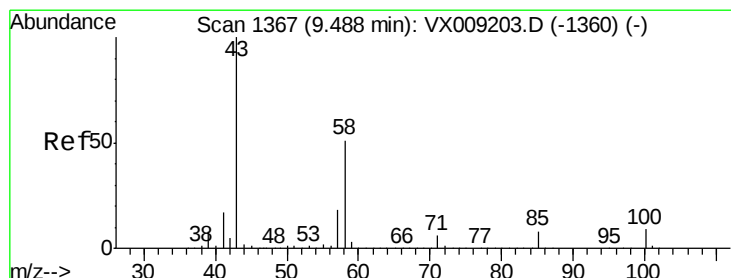
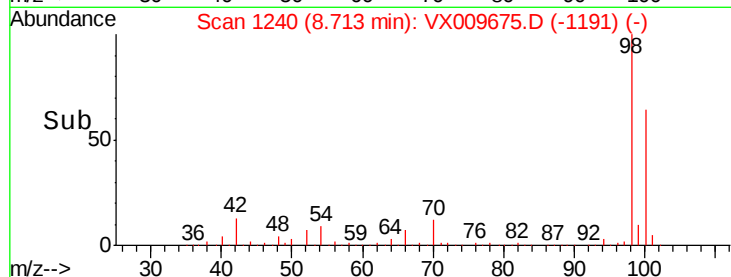
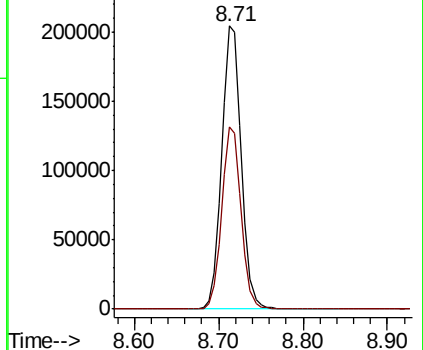
98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#59

2-Hexanone

Concen: 0.296 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX009675.D

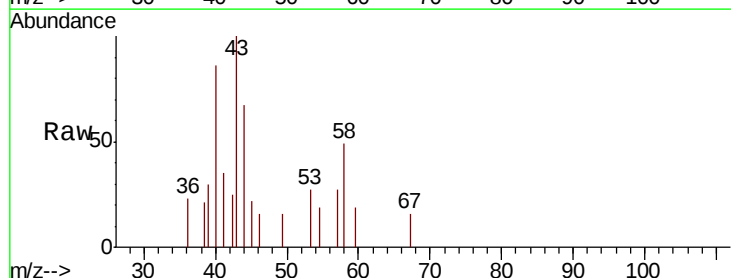
Acq: 17 May 2019 20:29

Tgt Ion: 43 Resp: 820

Ion Ratio Lower Upper

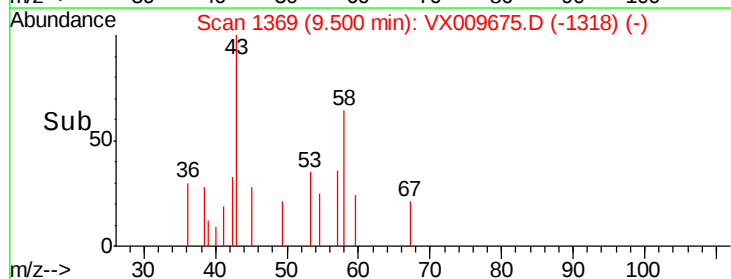
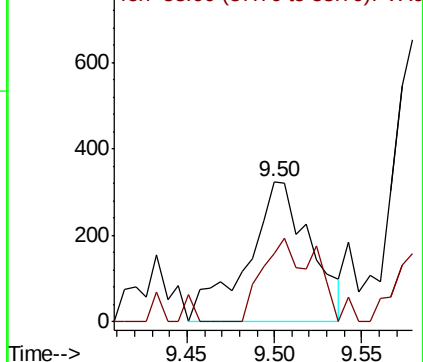
43 100

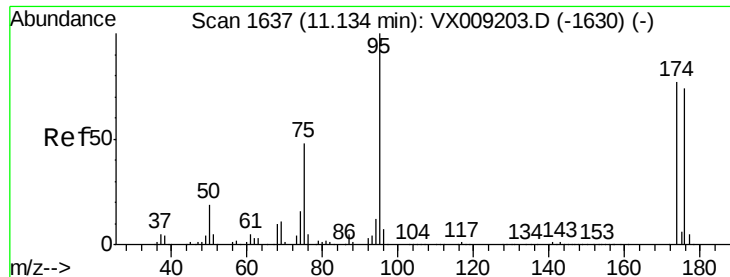
58 50.9 25.9 77.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.005 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-498-500

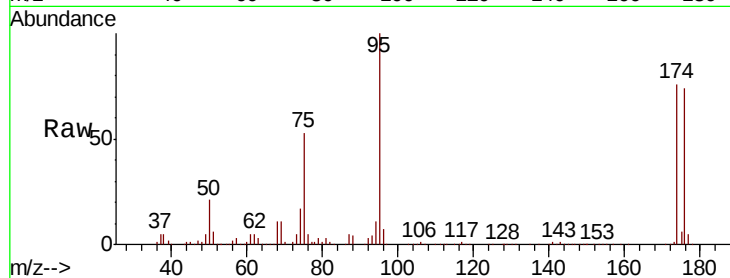
Tot Ion: 95 Resp: 105639

Ion Ratio Lower Upper

95 100

174 81.3 0.0 161.6

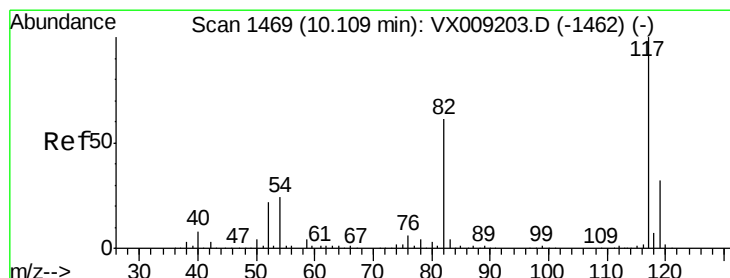
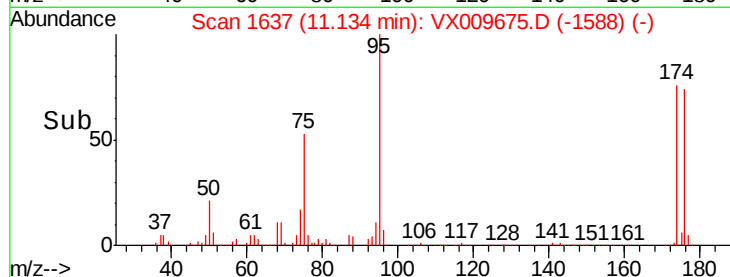
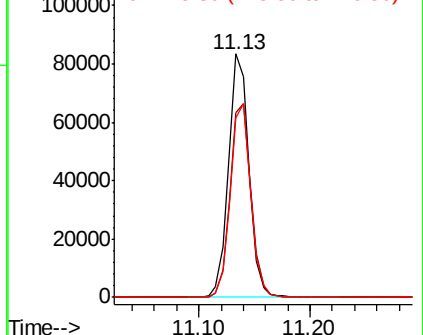
176 79.5 0.0 159.2



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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

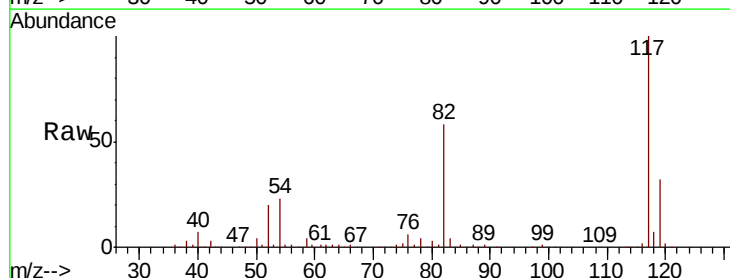
Tgt Ion: 117 Resp: 227114

Ion Ratio Lower Upper

117 100

82 58.2 48.8 73.2

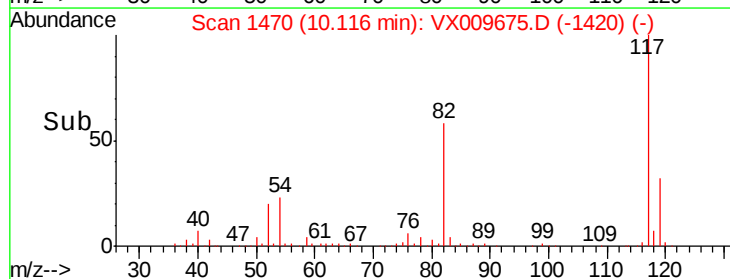
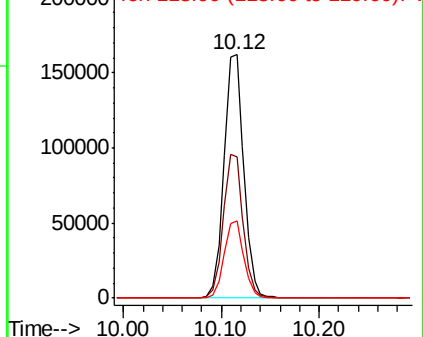
119 31.5 25.8 38.6

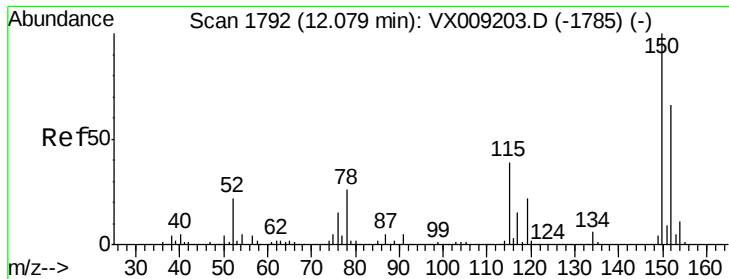


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-498-500

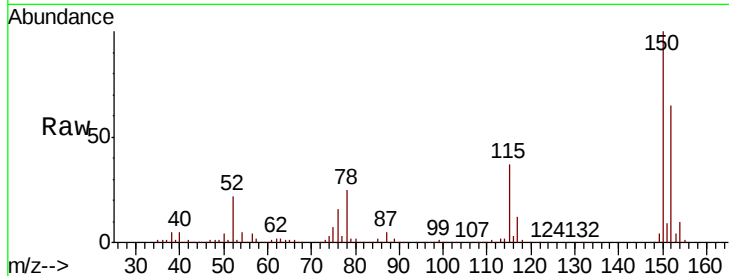
Tot Ion:152 Resp: 93473

Ion Ratio Lower Upper

152 100

115 58.5 41.2 123.6

150 156.8 0.0 346.4



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

150000

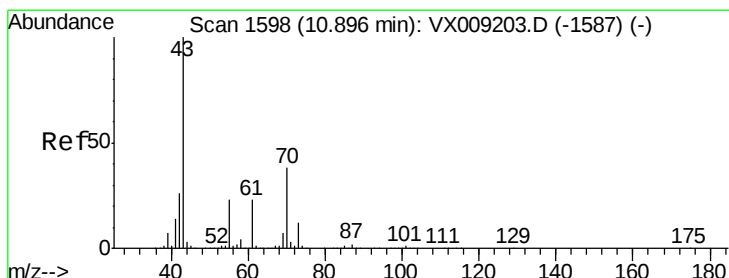
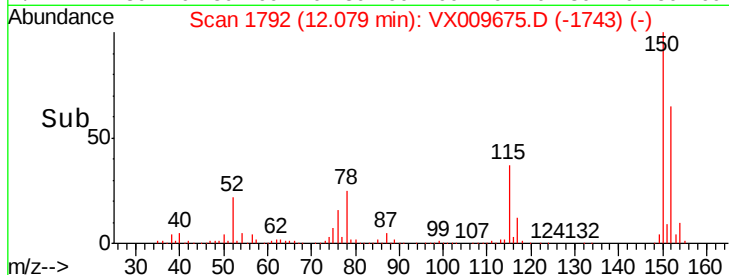
100000

50000

0

12.08

Time-->



#74

N-ethyl acetate

Concen: 0.330 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Tgt Ion: 43 Resp: 1307

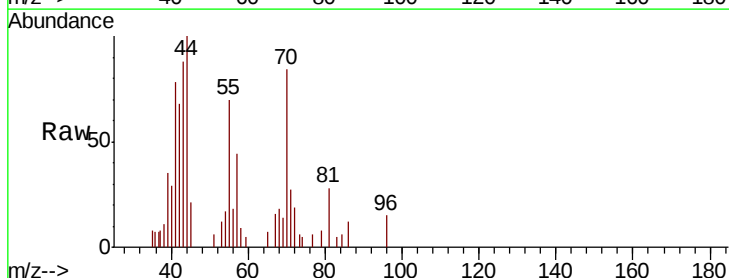
Ion Ratio Lower Upper

43 100

70 82.8 30.0 45.0#

55 84.4 17.9 26.9#

61 0.0 18.4 27.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

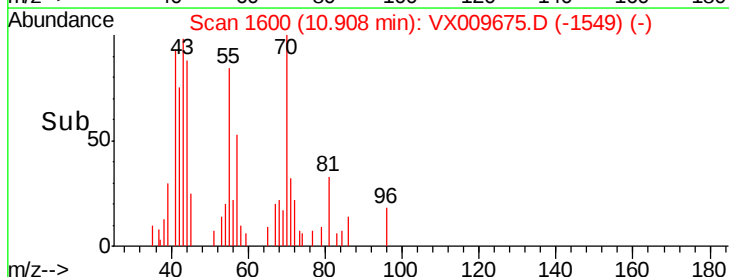
1000

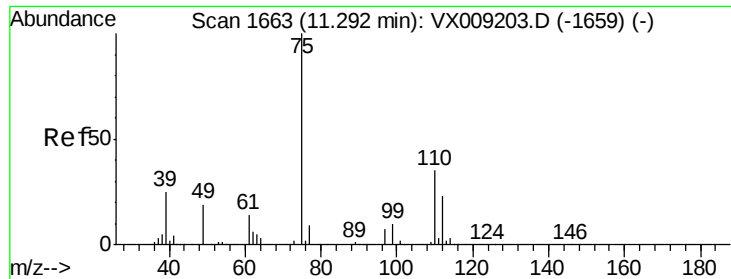
500

0

10.91

Time-->





#76

1,2,3-Trichloropropane

Concen: 25.079 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

Instrument :

MSVOA_X

ClientSampleId :

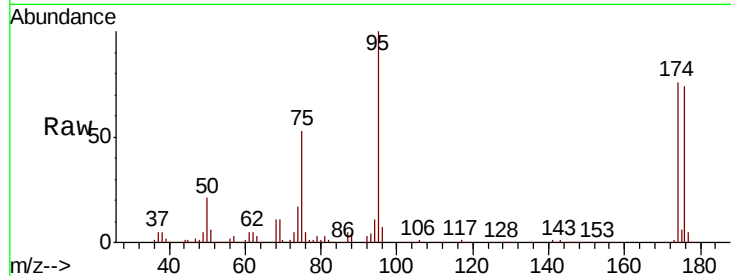
BP-VPB202-GW-498-500

Tot Ion: 75 Resp: 54377

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

40000

30000

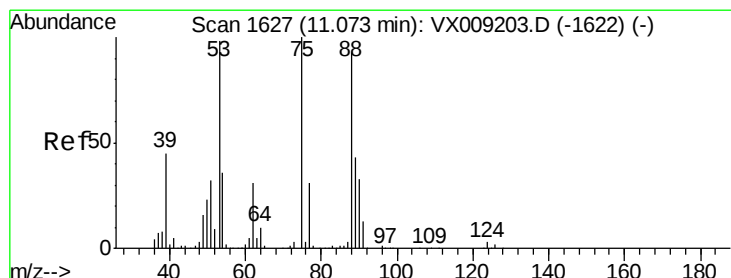
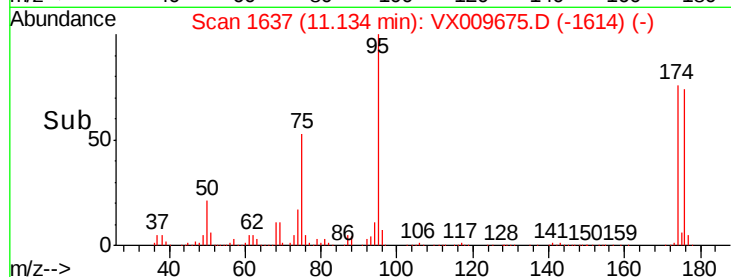
20000

10000

0

Time-->

11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 64.168 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009675.D

Acq: 17 May 2019 20:29

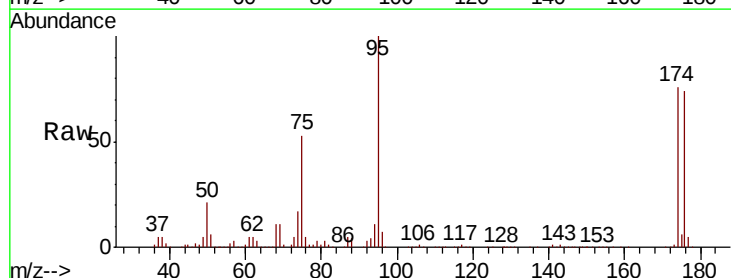
Tgt Ion: 75 Resp: 54377

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



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

60000

50000

40000

30000

20000

10000

0

Time-->

11.10 11.15 11.20

