

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051319\
 Data File : VX009536.D
 Acq On : 13 May 2019 12:25
 Operator : JC/SP
 Sample : K2834-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-TB-20190509

Quant Time: May 14 03:42:56 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	5.66	168	184556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	291709	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112922	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	118732	47.13	ug/l	0.00
Spiked Amount			Recovery	=	94.26%	
35) Dibromofluoromethane	5.50	113	88773	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
50) Toluene-d8	8.71	98	364455	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.13	95	122128	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

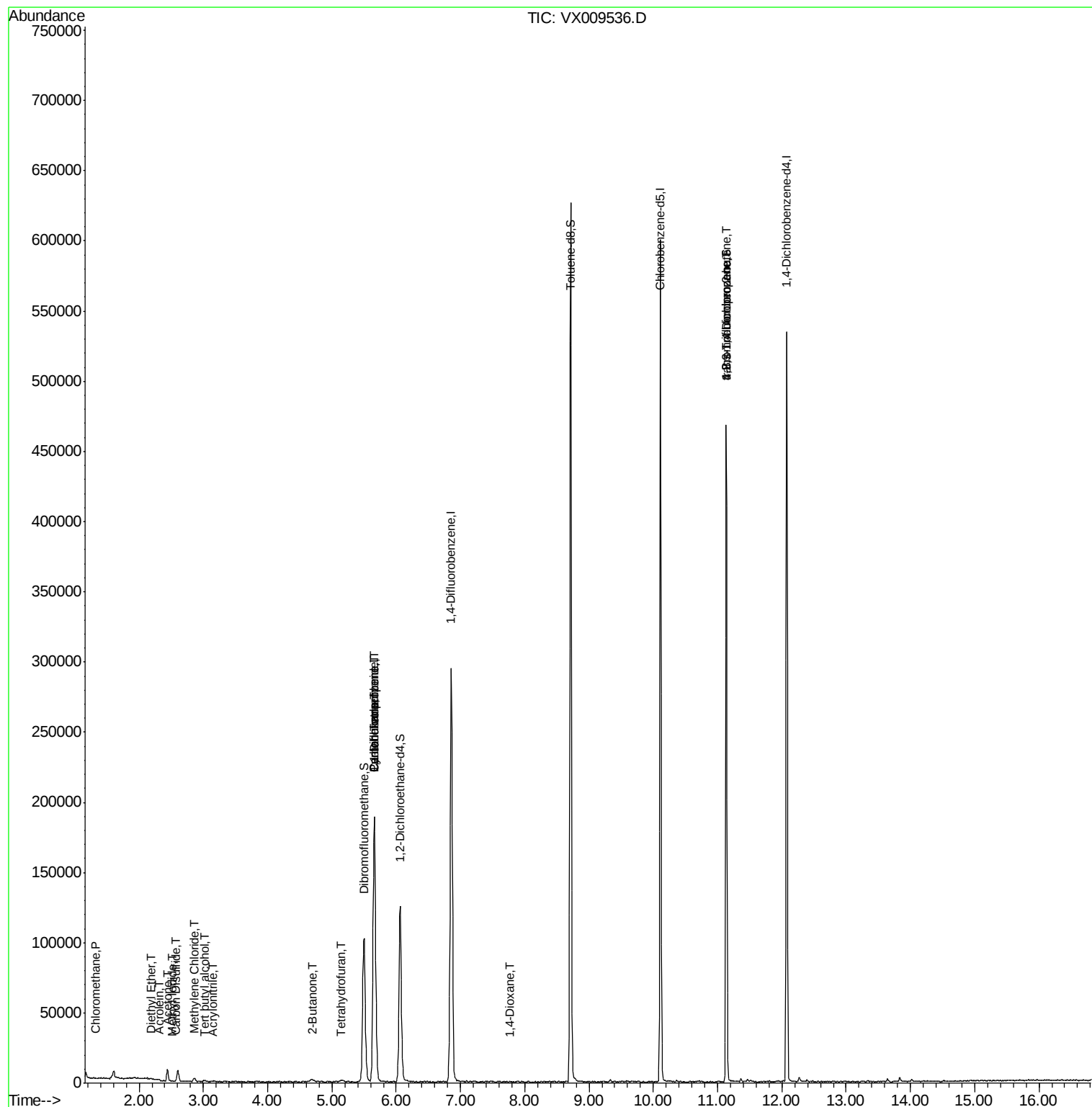
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	552	0.238	ug/l #	53
8) Diethyl Ether	2.18	74	262	0.201	ug/l	77
10) Methyl Iodide	2.52	142	389	4.770	ug/l #	85
11) Tert butyl alcohol	3.02	59	478	0.820	ug/l	99
13) Acrolein	2.31	56	216	0.409	ug/l #	14
15) Acrylonitrile	3.14	53	385	0.270	ug/l #	84
16) Acetone	2.44	43	9584	7.084	ug/l	99
17) Carbon Disulfide	2.57	76	1102	0.227	ug/l #	89
20) Methylene Chloride	2.86	84	1163	0.531	ug/l	91
25) 2-Butanone	4.69	43	1112	0.529	ug/l	91
28) Bromochloromethane	4.99	49	104	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	1532	1.132	ug/l #	82
31) Cyclohexane	5.67	56	3992	1.072	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14000	5.164	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16778	6.812	ug/l #	15
49) 1,4-Dioxane	7.76	88	22	0.362	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61743	23.572	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61743	60.311	ug/l #	10

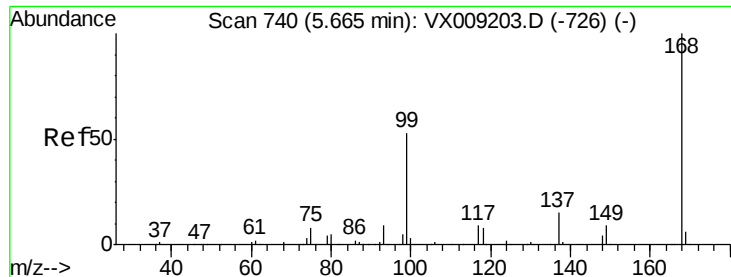
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051319\
Data File : VX009536.D
Acq On : 13 May 2019 12:25
Operator : JC/SP
Sample : K2834-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190509

Quant Time: May 14 03:42:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration

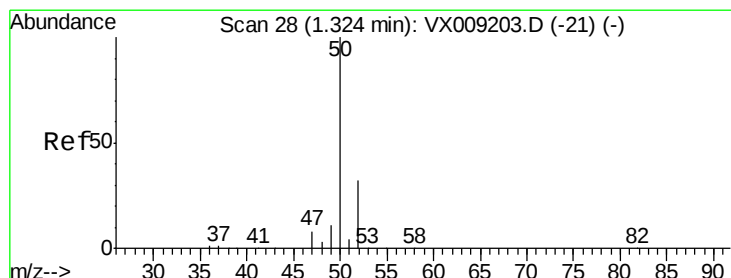
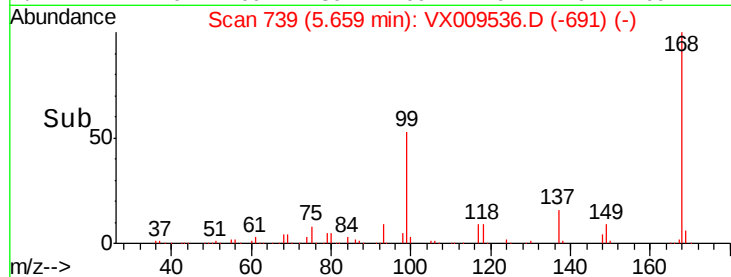
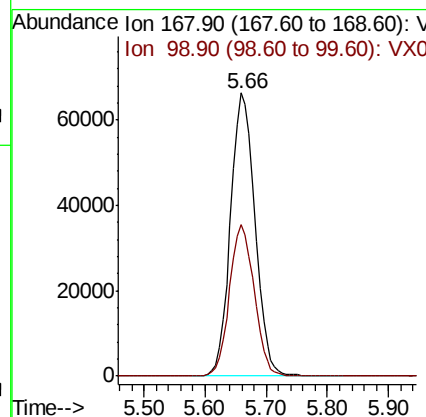
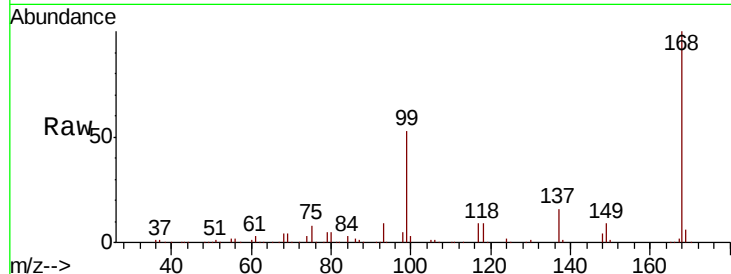




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.01 min
Lab File: VX009536.D
Acq: 13 May 2019 12:25

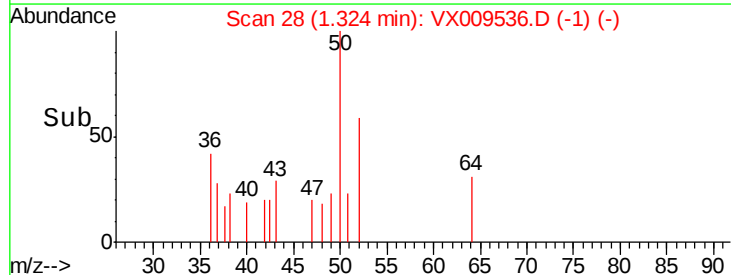
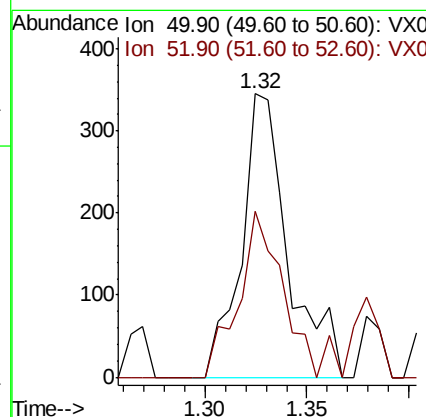
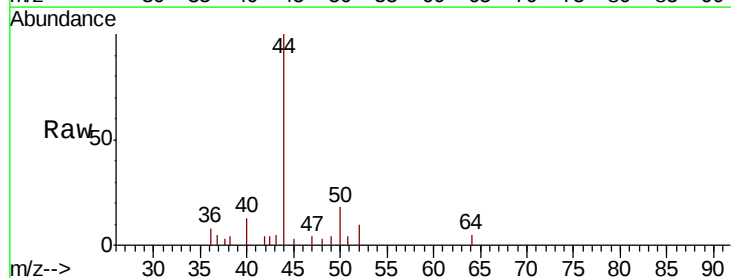
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190509

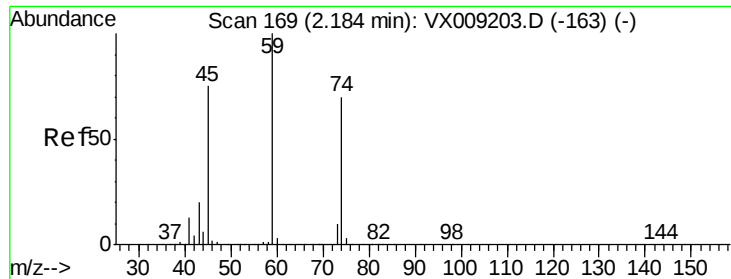
Tot Ion:168 Resp: 184556
Ion Ratio Lower Upper
168 100
99 53.3 42.3 63.5



#3
Chloromethane
Concen: 0.238 ug/l
RT: 1.32 min Scan# 28
Delta R.T. -0.00 min
Lab File: VX009536.D
Acq: 13 May 2019 12:25

Tgt Ion: 50 Resp: 552
Ion Ratio Lower Upper
50 100
52 58.6 25.9 38.9#

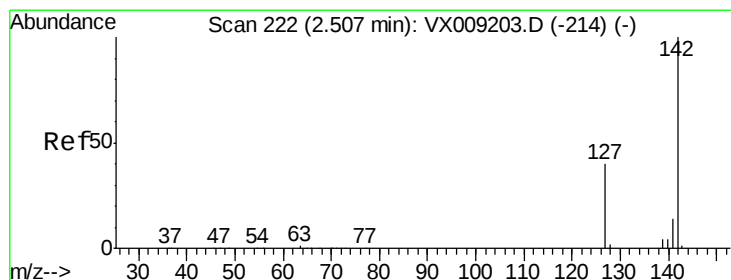
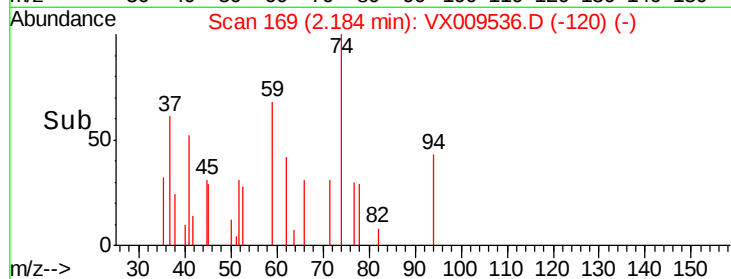
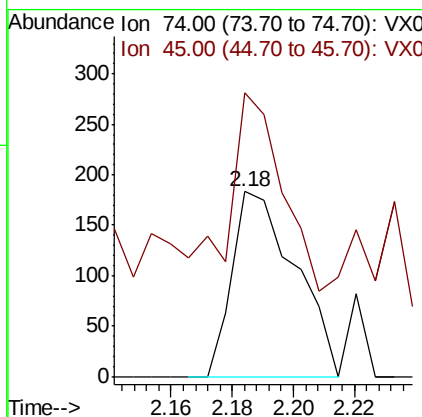
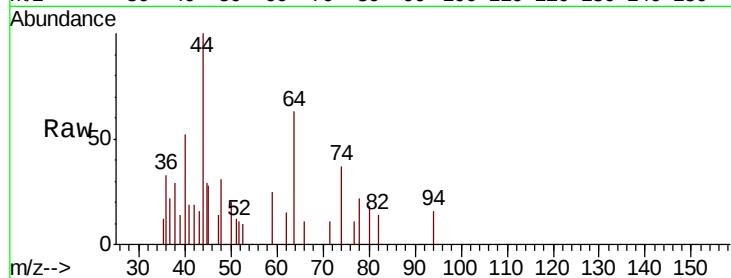




#8
 Diethyl Ether
 Concen: 0.201 ug/l
 RT: 2.18 min Scan# 169
 Delta R.T. 0.00 min
 Lab File: VX009536.D
 Acq: 13 May 2019 12:25

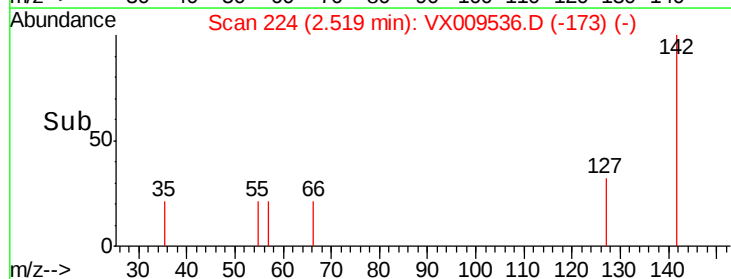
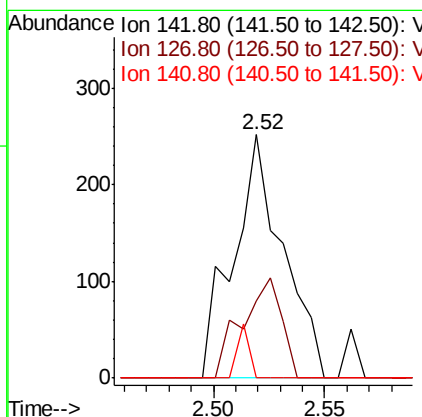
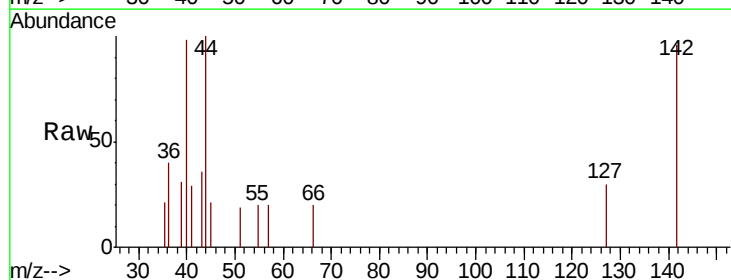
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-TB-20190509

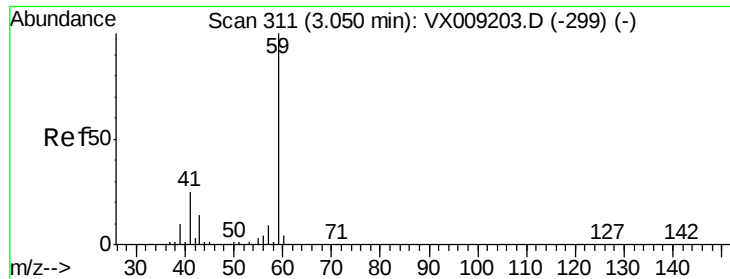
Tot Ion: 74 Resp: 262
 Ion Ratio Lower Upper
 74 100
 45 130.5 53.3 159.9



#10
 Methyl Iodide
 Concen: 4.770 ug/l
 RT: 2.52 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VX009536.D
 Acq: 13 May 2019 12:25

Tgt Ion: 142 Resp: 389
 Ion Ratio Lower Upper
 142 100
 127 33.2 32.7 49.1
 141 5.1 11.5 17.3#

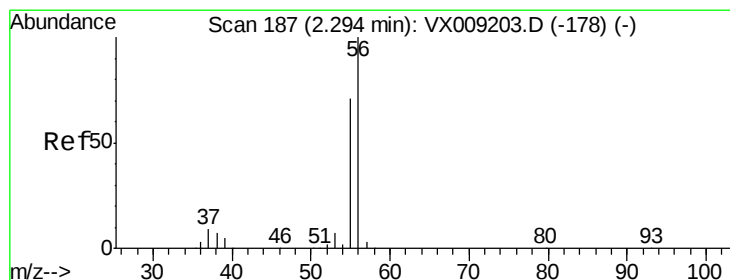
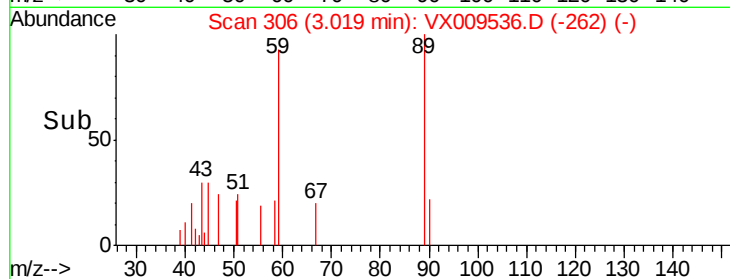
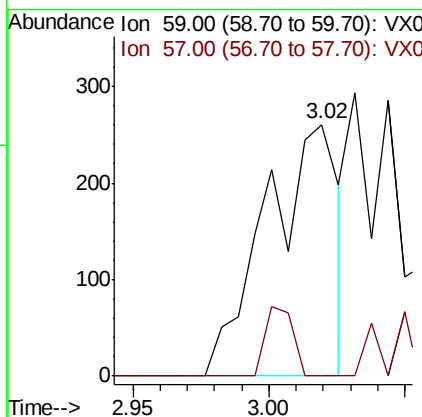
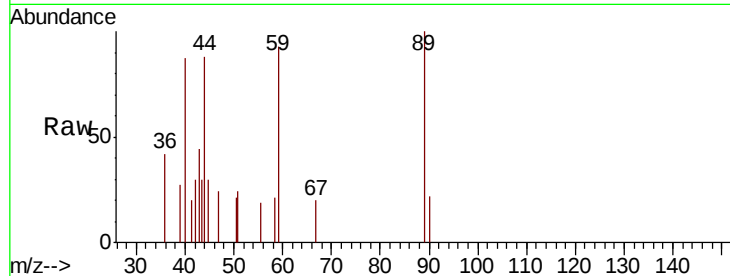




#11
Tert butyl alcohol
Concen: 0.820 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009536.D
Acq: 13 May 2019 12:25

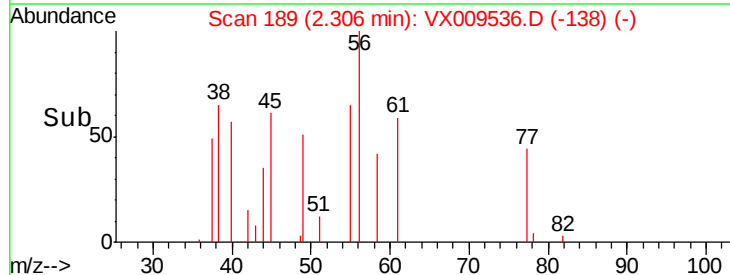
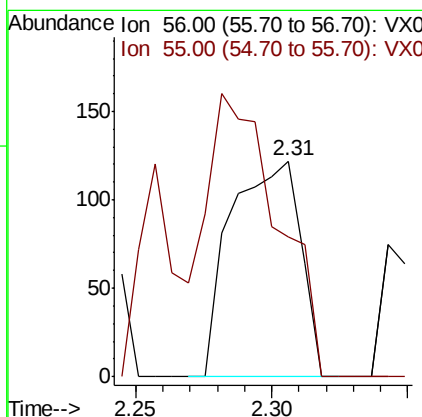
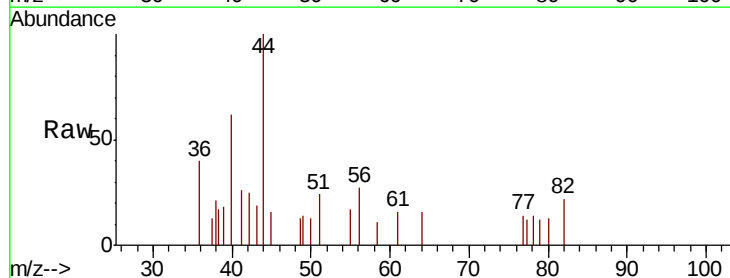
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190509

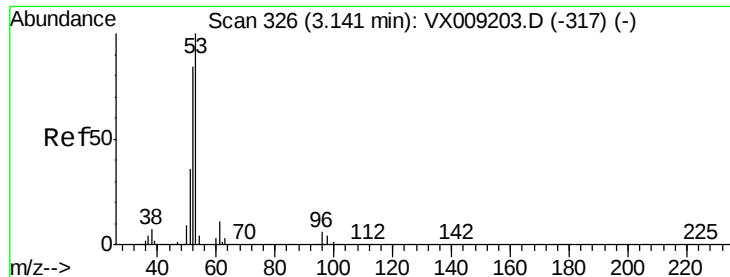
Tot Ion: 59 Resp: 478
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.2



#13
Acrolein
Concen: 0.409 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX009536.D
Acq: 13 May 2019 12:25

Tgt Ion: 56 Resp: 216
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#





#15

Acrylonitrile

Concen: 0.270 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-TB-20190509

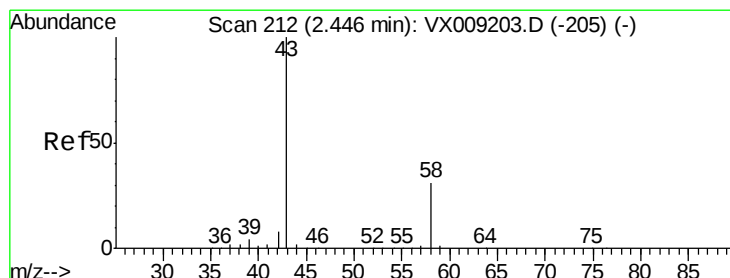
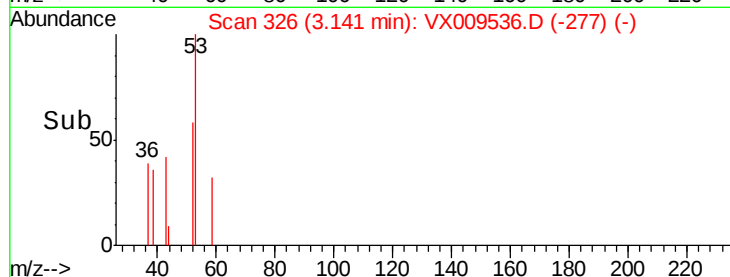
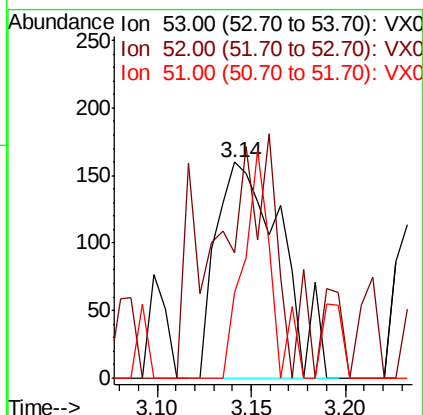
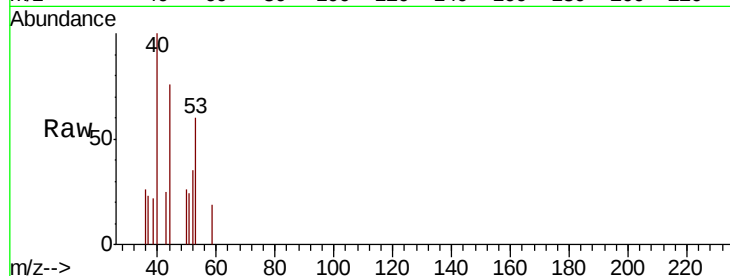
Tot Ion: 53 Resp: 385

Ion Ratio Lower Upper

53 100

52 69.4 66.9 100.3

51 44.9 28.2 42.2#



#16

Acetone

Concen: 7.084 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009536.D

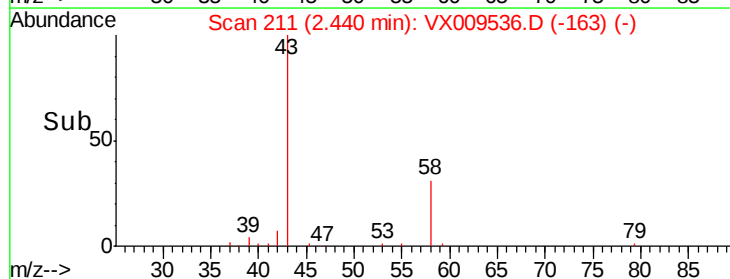
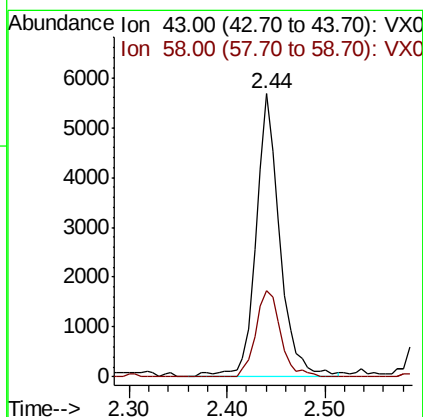
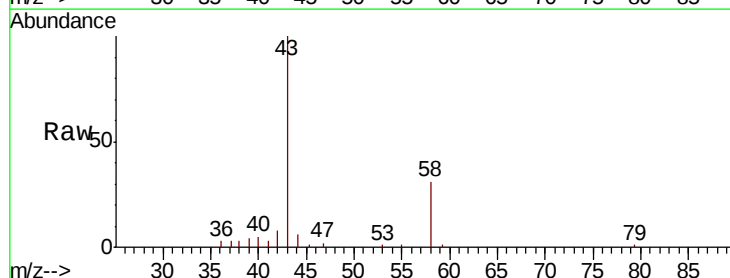
Acq: 13 May 2019 12:25

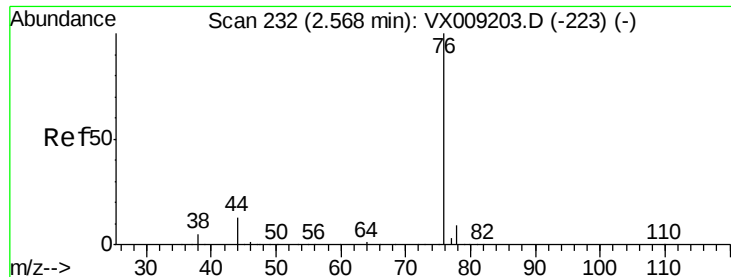
Tgt Ion: 43 Resp: 9584

Ion Ratio Lower Upper

43 100

58 30.5 24.9 37.3





#17

Carbon Disulfide

Concen: 0.227 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

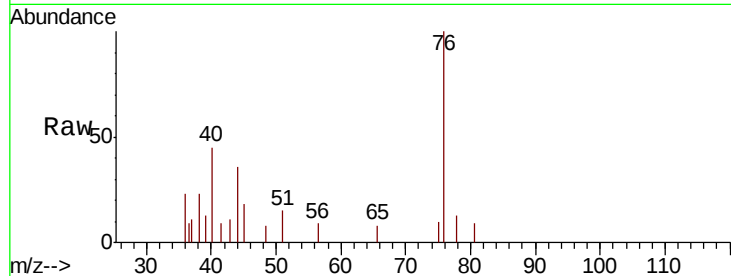
BP-VPB202-TB-20190509

Tot Ion: 76 Resp: 1102

Ion Ratio Lower Upper

76 100

78 13.1 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

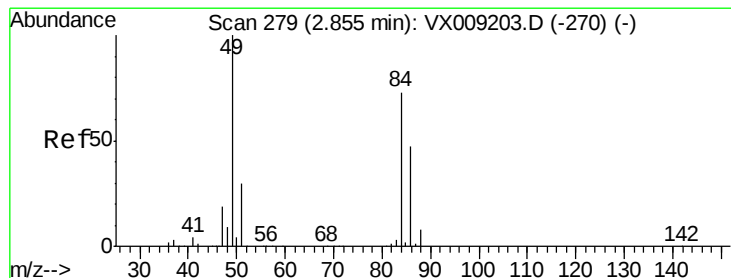
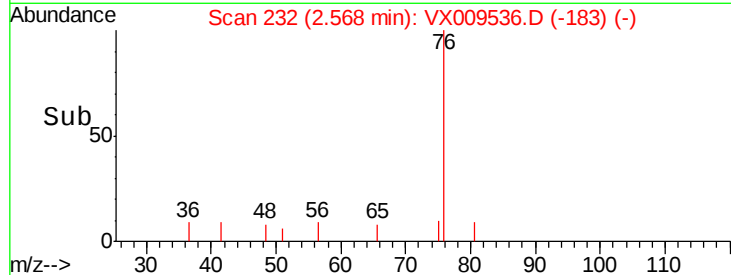
600

400

200

0

Time--> 2.50 2.55 2.60 2.65



#20

Methylene Chloride

Concen: 0.531 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Tgt Ion: 84 Resp: 1163

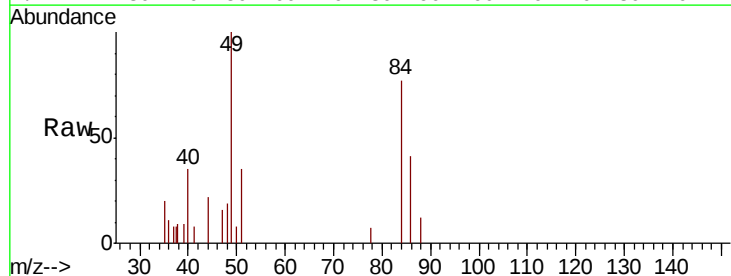
Ion Ratio Lower Upper

84 100

49 129.2 109.9 164.9

51 45.7 32.7 49.1

86 53.2 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

1200

1000

800

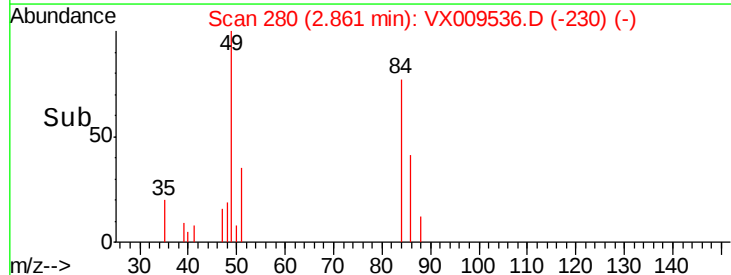
600

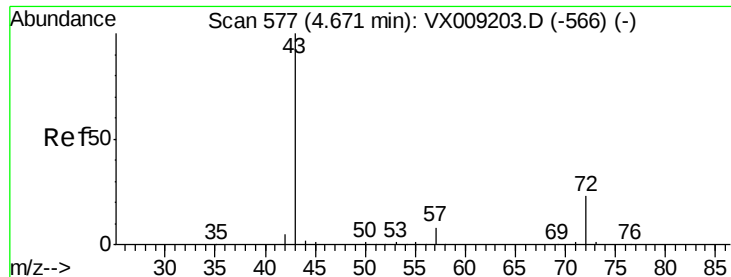
400

200

0

Time--> 2.80 2.85 2.90





#25

2-Butanone

Concen: 0.529 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

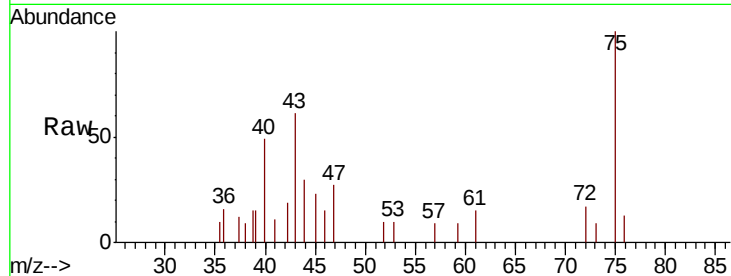
BP-VPB202-TB-20190509

Tot Ion: 43 Resp: 1112

Ion Ratio Lower Upper

43 100

72 26.9 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.69

300

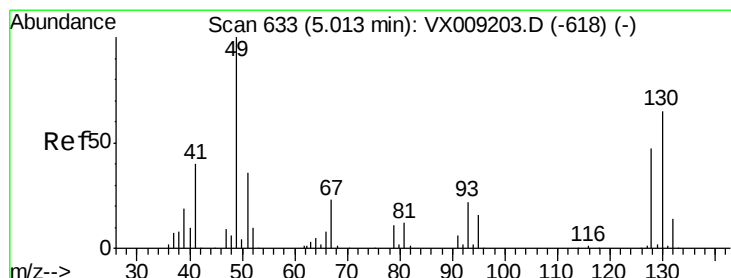
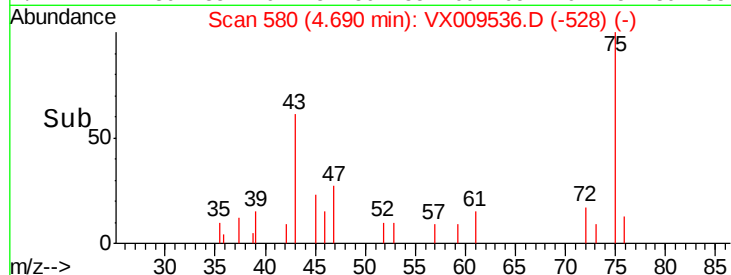
200

100

0

4.60 4.65 4.70 4.75

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

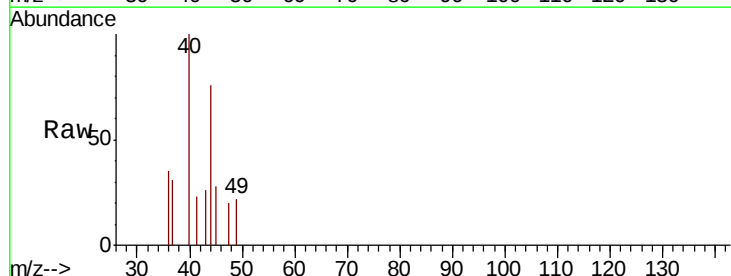
Tgt Ion: 49 Resp: 104

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

80

60

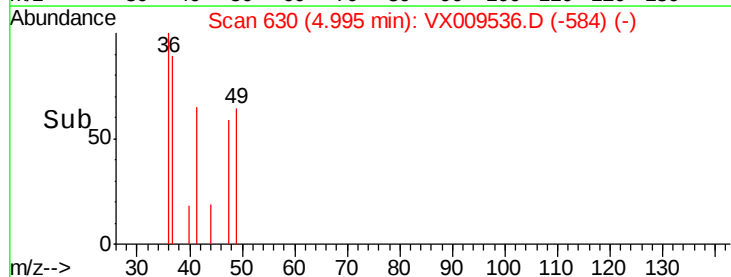
40

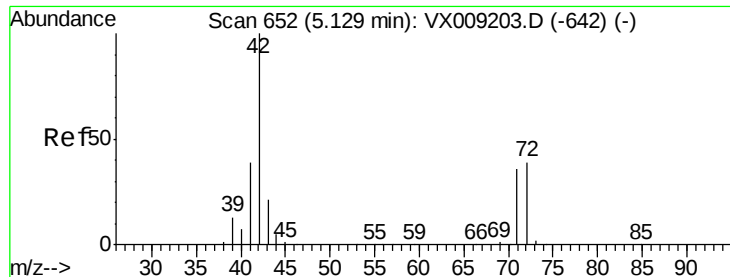
20

0

4.96 4.98 5.00 5.02

Time-->





#29

Tetrahydrofuran

Concen: 1.132 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-TB-20190509

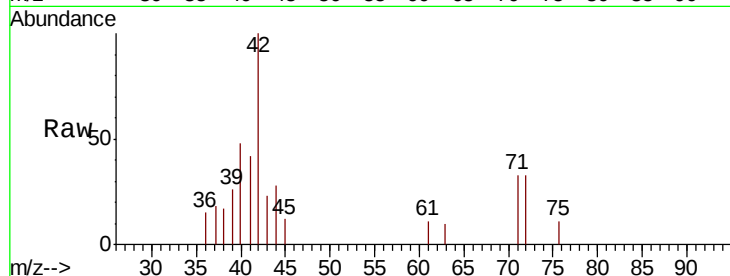
Tot Ion: 42 Resp: 1532

Ion Ratio Lower Upper

42 100

72 18.3 30.4 45.6#

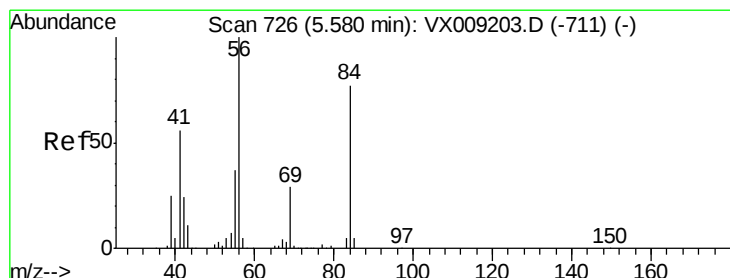
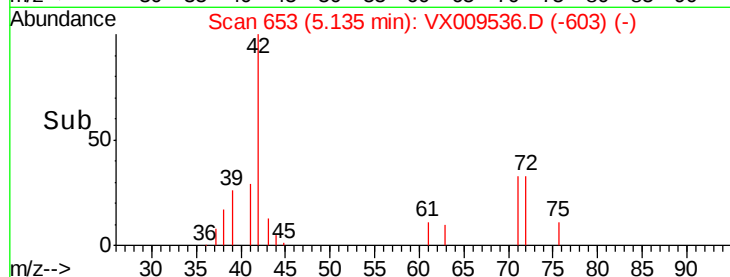
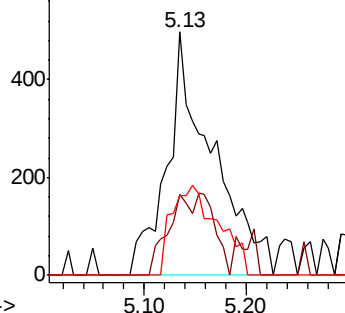
71 37.7 28.6 43.0



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.072 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

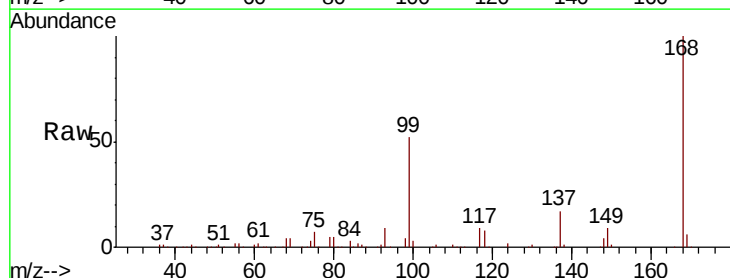
Tgt Ion: 56 Resp: 3992

Ion Ratio Lower Upper

56 100

69 161.0 23.4 35.0#

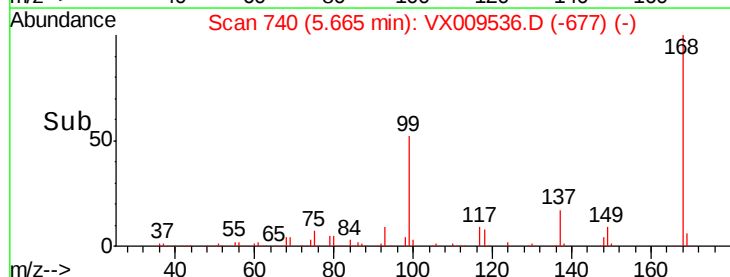
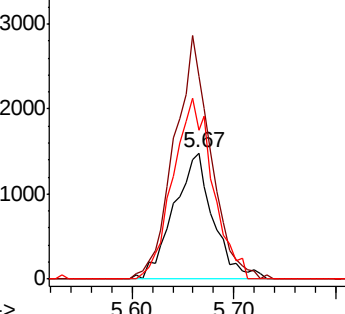
84 118.2 61.9 92.9#

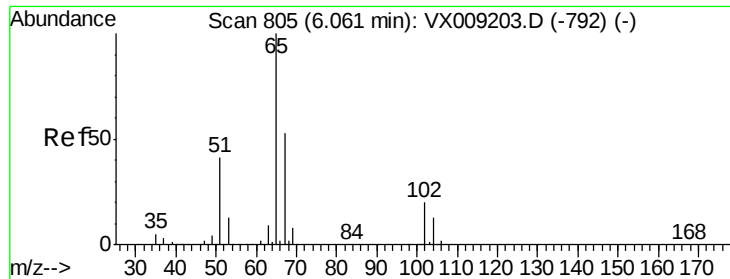


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.127 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

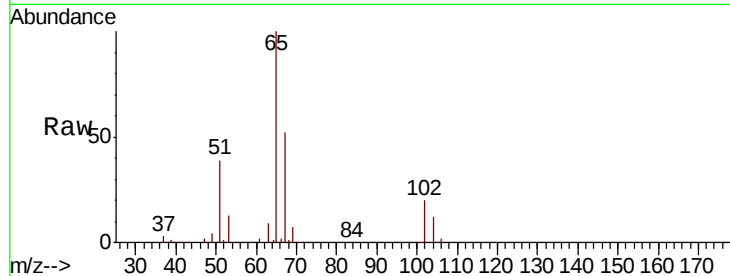
BP-VPB202-TB-20190509

Tot Ion: 65 Resp: 118732

Ion Ratio Lower Upper

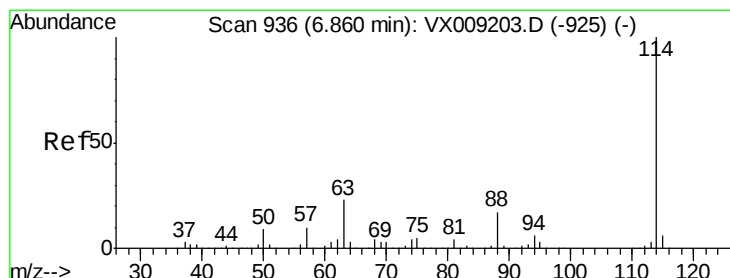
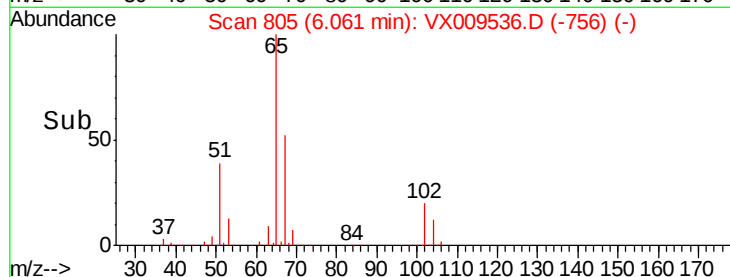
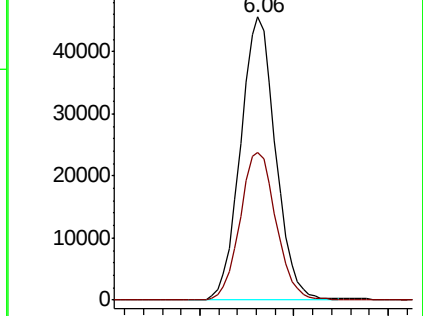
65 100

67 53.8 0.0 106.6



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: VX009536.D

Acq: 13 May 2019 12:25

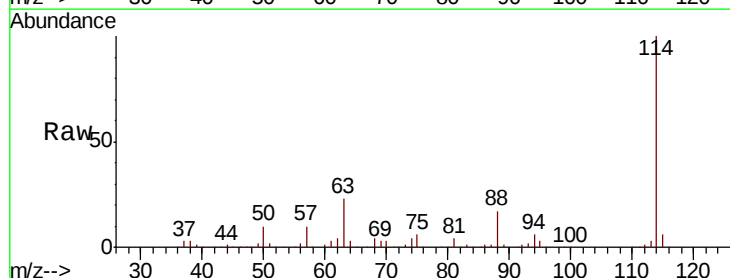
Tgt Ion: 114 Resp: 291709

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

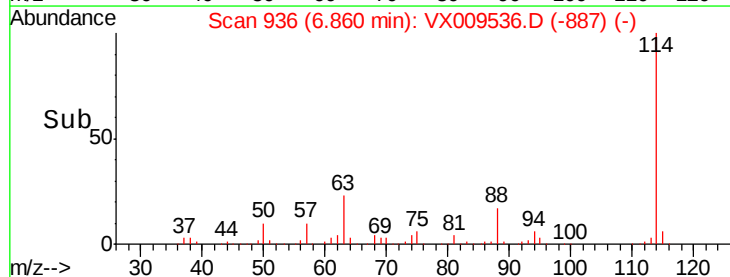
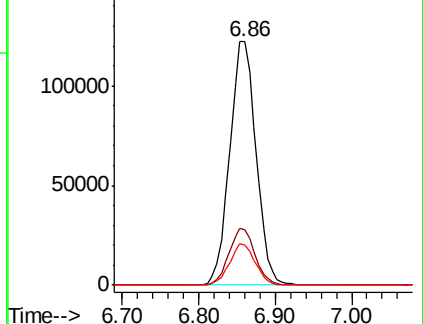
88 16.5 0.0 33.2

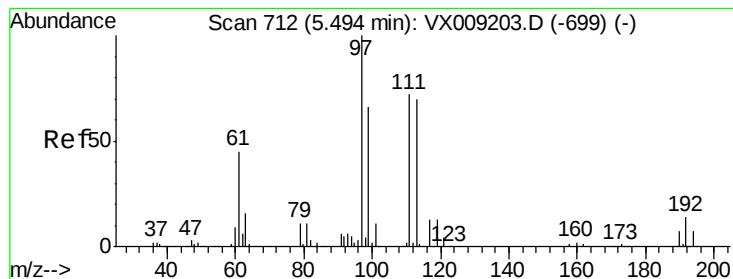


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.409 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-TB-20190509

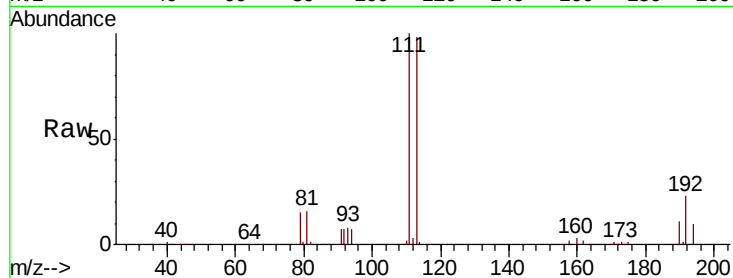
Tot Ion:113 Resp: 88773

Ion Ratio Lower Upper

113 100

111 102.0 82.8 124.2

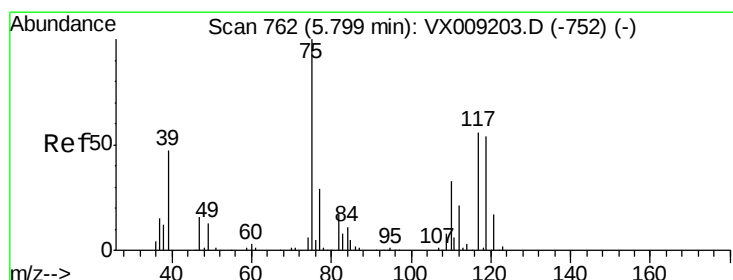
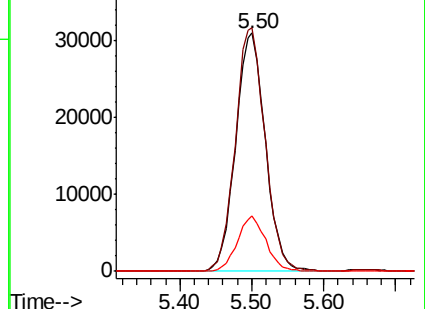
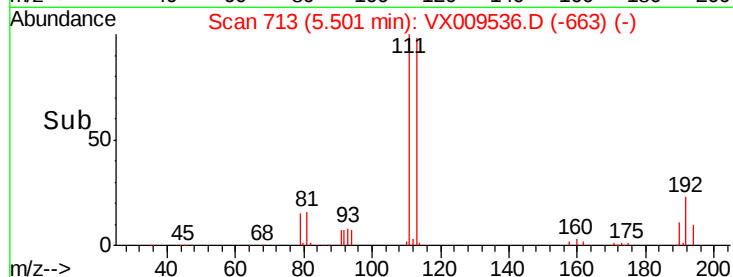
192 22.2 17.0 25.6



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: 5.164 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

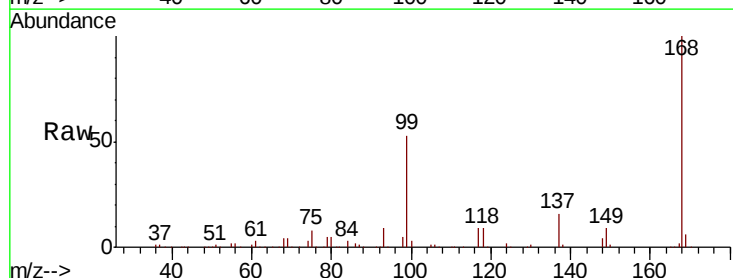
Tgt Ion: 75 Resp: 14000

Ion Ratio Lower Upper

75 100

110 9.5 16.9 50.6#

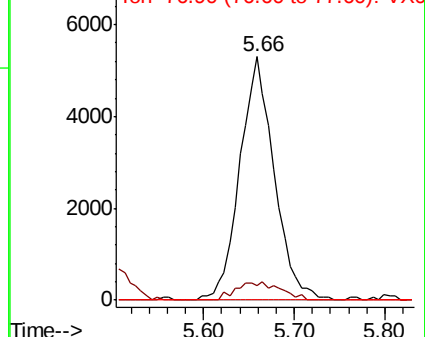
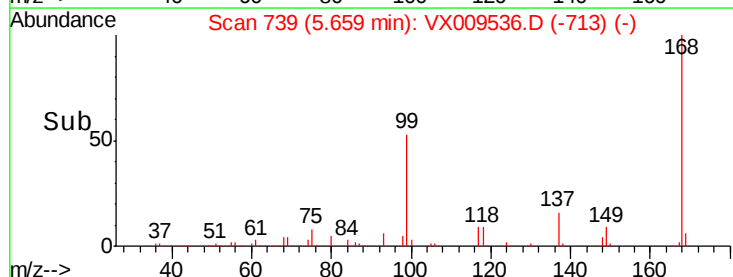
77 0.0 24.8 37.2#

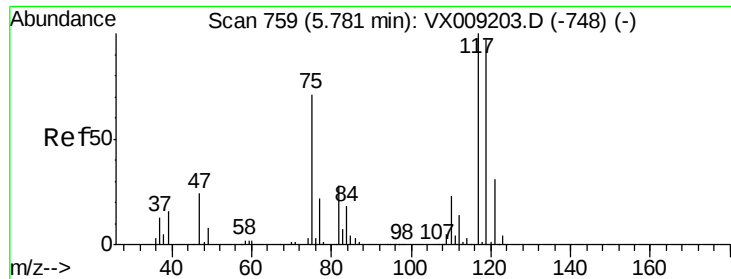


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.812 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-TB-20190509

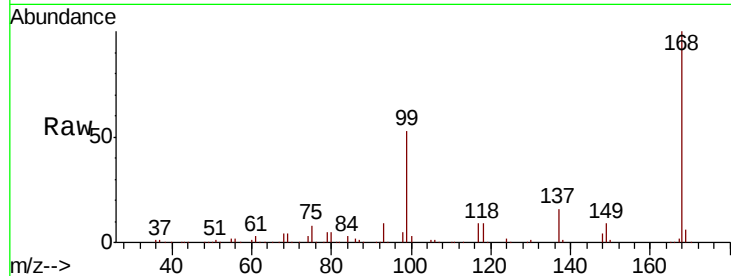
Tot Ion:117 Resp: 16778

Ion Ratio Lower Upper

117 100

119 5.0 77.5 116.3#

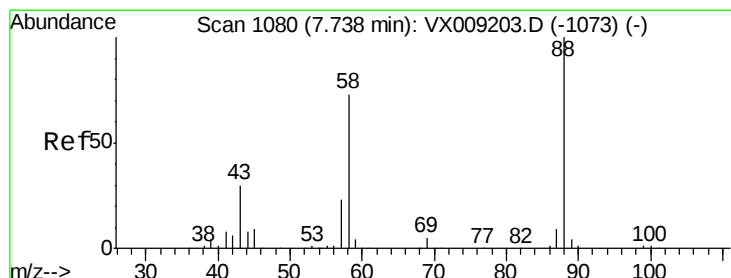
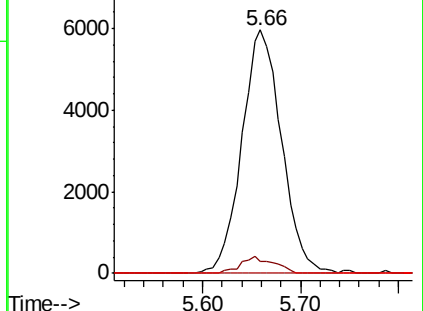
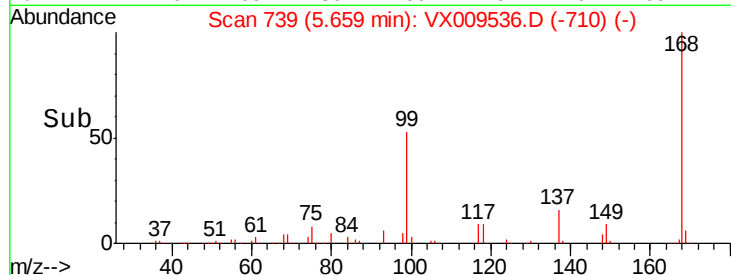
121 0.0 24.7 37.1#



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: 0.362 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

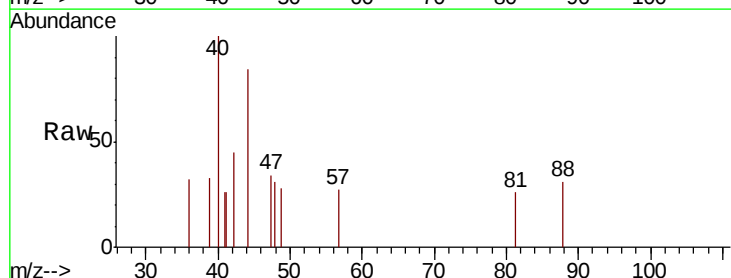
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 95.5 28.6 42.8#

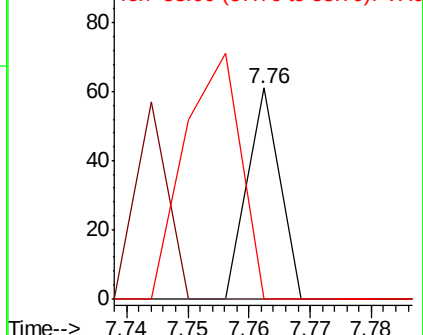
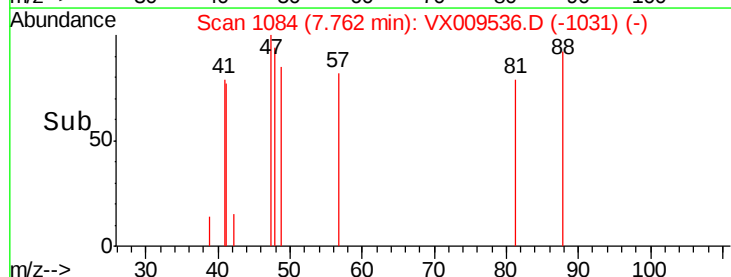
58 204.5 61.7 92.5#

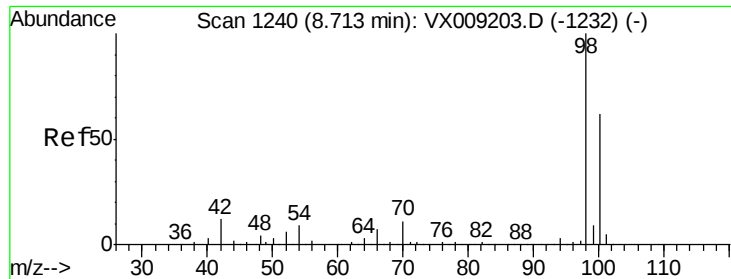


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.227 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

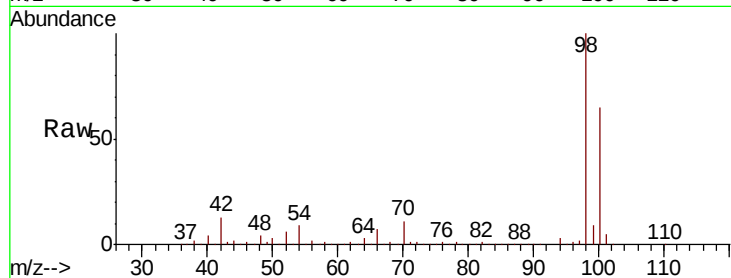
BP-VPB202-TB-20190509

Tot Ion: 98 Resp: 364455

Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

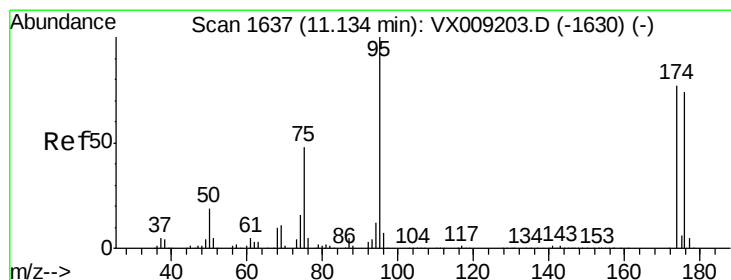
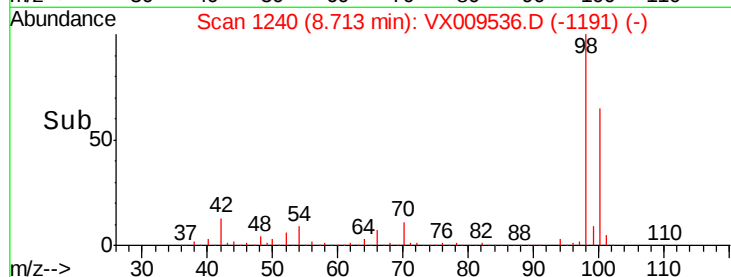
100000

50000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 45.398 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009536.D

Acq: 13 May 2019 12:25

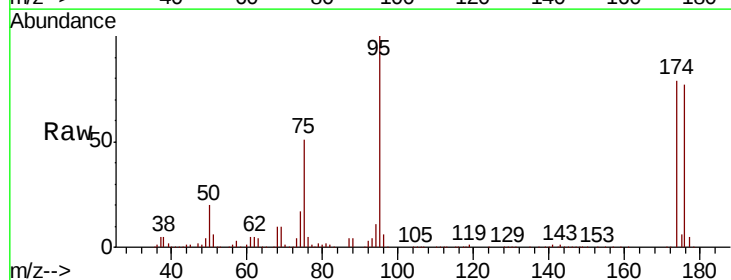
Tgt Ion: 95 Resp: 122128

Ion Ratio Lower Upper

95 100

174 82.7 0.0 161.6

176 80.5 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

120000

100000

80000

60000

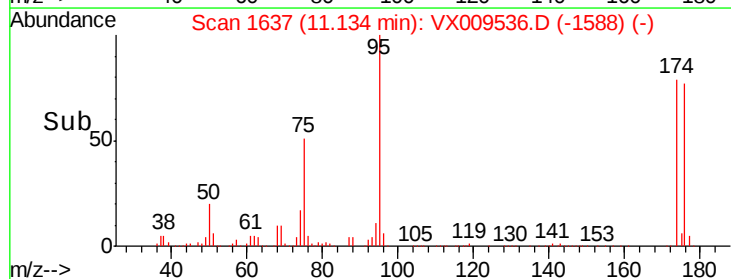
40000

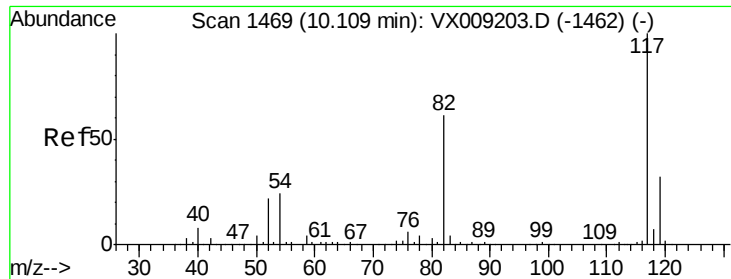
20000

0

11.10 11.20

Time-->

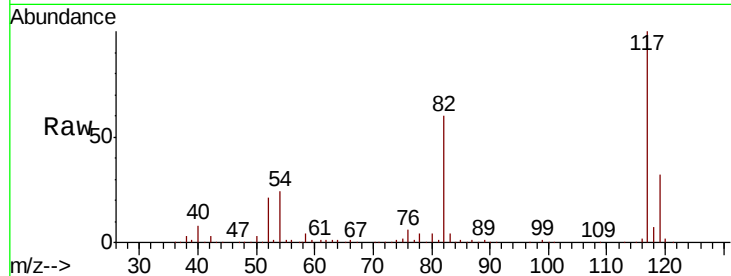




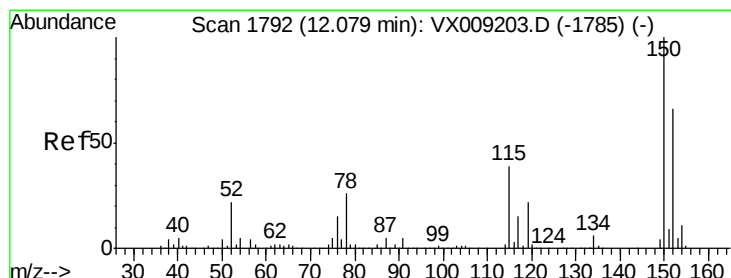
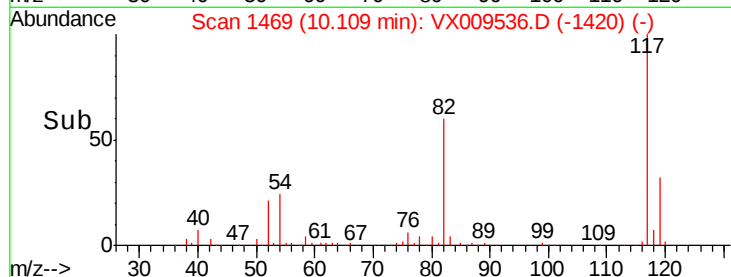
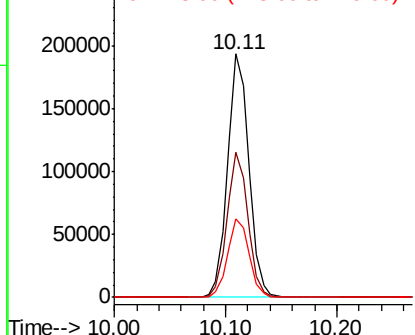
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009536.D
Acq: 13 May 2019 12:25

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-TB-20190509

Tot Ion:117 Resp: 256460
Ion Ratio Lower Upper
117 100
82 59.6 48.8 73.2
119 32.0 25.8 38.6

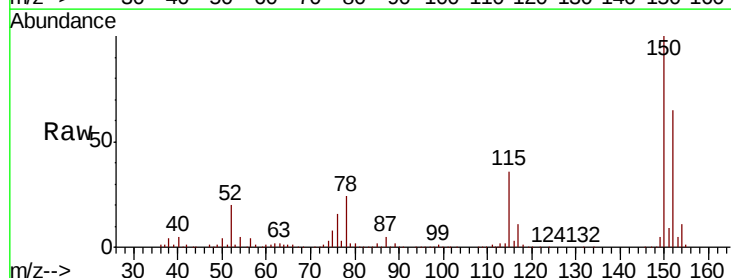


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

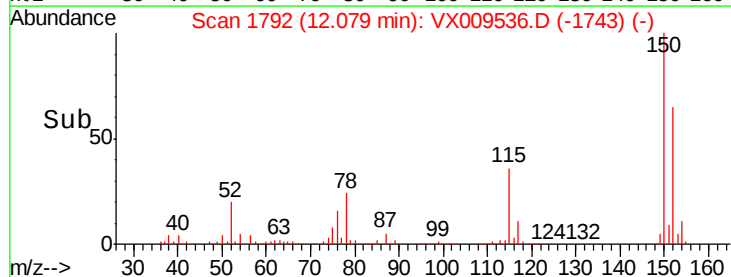
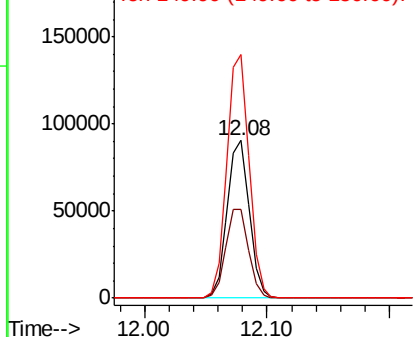


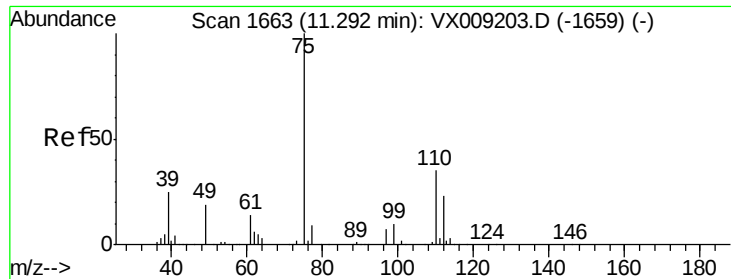
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009536.D
Acq: 13 May 2019 12:25

Tgt Ion:152 Resp: 112922
Ion Ratio Lower Upper
152 100
115 58.2 41.2 123.6
150 155.5 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

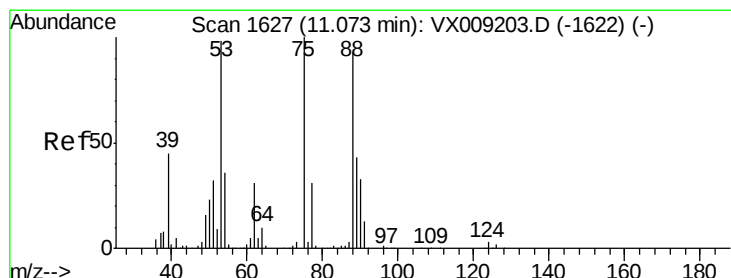
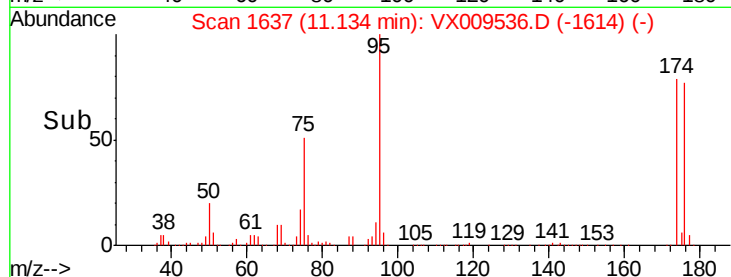
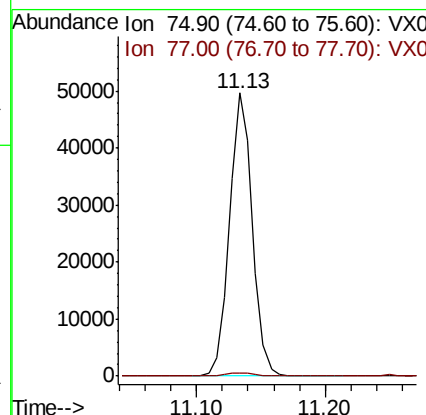
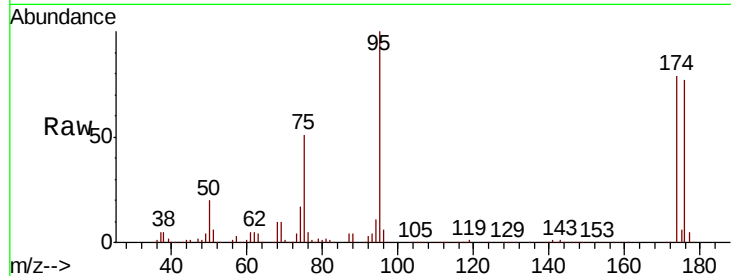




#76
 1,2,3-Trichloropropane
 Concen: 23.572 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009536.D
 Acq: 13 May 2019 12:25

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-TB-20190509

Tot Ion: 75 Resp: 61743
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.311 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009536.D
 Acq: 13 May 2019 12:25

Tgt Ion: 75 Resp: 61743
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#

