

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009676.D
 Acq On : 17 May 2019 20:53
 Operator : JC/SP
 Sample : K2891-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-DUP-20190513

Quant Time: May 18 04:53:27 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	159850	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	253223	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	222136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	87008	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	106802	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
35) Dibromofluoromethane	5.50	113	77928	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	8.71	98	319065	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
62) 4-Bromofluorobenzene	11.13	95	100813	43.17	ug/l	0.00
Spiked Amount			Recovery	=	86.34%	

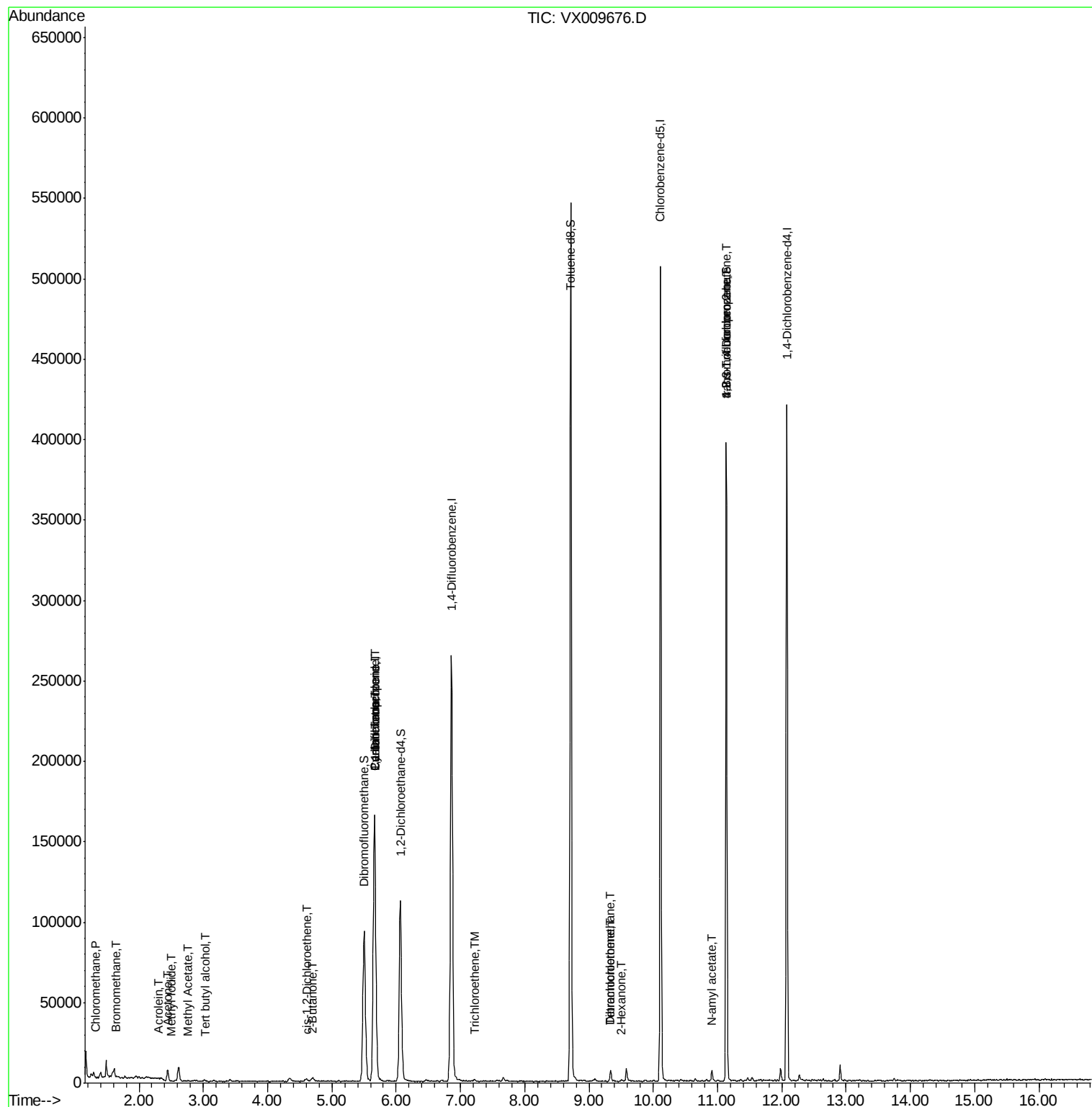
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	470	0.234	ug/l	97
5) Bromomethane	1.64	94	257	0.218	ug/l #	48
10) Methyl Iodide	2.51	142	154	4.674	ug/l #	59
11) Tert butyl alcohol	3.03	59	693	1.372	ug/l #	73
13) Acrolein	2.30	56	191	0.418	ug/l	97
16) Acetone	2.45	43	7487	6.390	ug/l	95
18) Methyl Acetate	2.77	43	611	0.219	ug/l #	56
25) 2-Butanone	4.70	43	1980	1.087	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	888	0.457	ug/l	87
28) Bromochloromethane	5.03	49	23	Below Cal	#	20
31) Cyclohexane	5.67	56	3698	1.146	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	12372	5.257	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15314	7.163	ug/l #	16
44) Trichloroethene	7.21	130	631	0.358	ug/l	86
59) 2-Hexanone	9.51	43	847	0.315	ug/l	95
60) Dibromochloromethane	9.34	129	1286	0.729	ug/l #	11
64) Tetrachloroethene	9.34	164	1391	0.913	ug/l	94
74) N-amyl acetate	10.91	43	1419	0.385	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	52602	26.063	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	52602	66.686	ug/l #	10

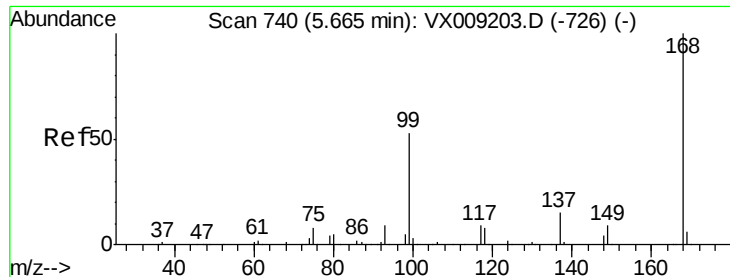
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
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: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

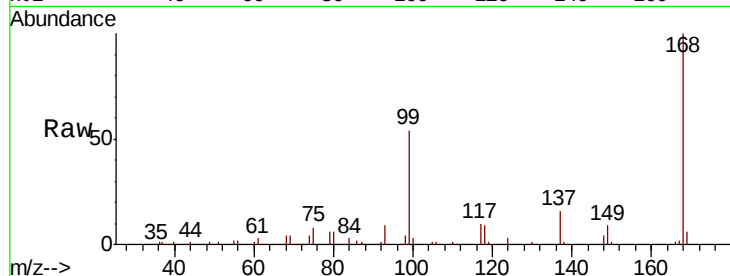
BP-VPB202-DUP-20190513

Tot Ion:168 Resp: 159850

Ion Ratio Lower Upper

168 100

99 54.4 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

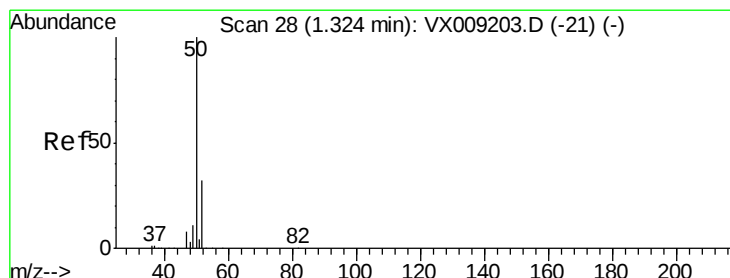
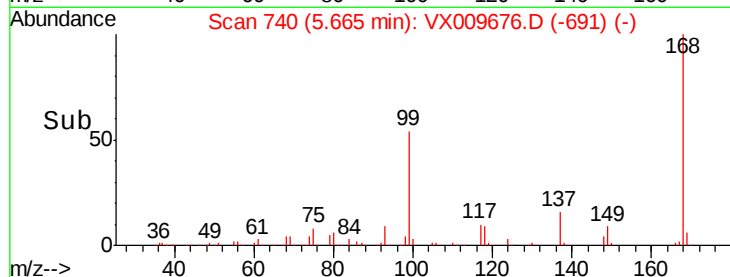
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009676.D

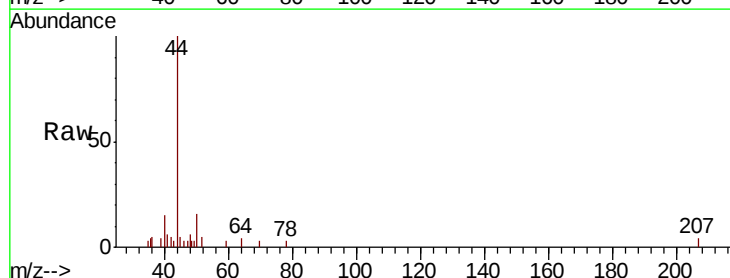
Acq: 17 May 2019 20:53

Tgt Ion: 50 Resp: 470

Ion Ratio Lower Upper

50 100

52 34.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

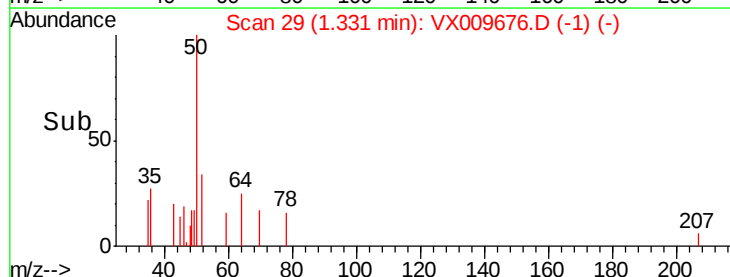
300

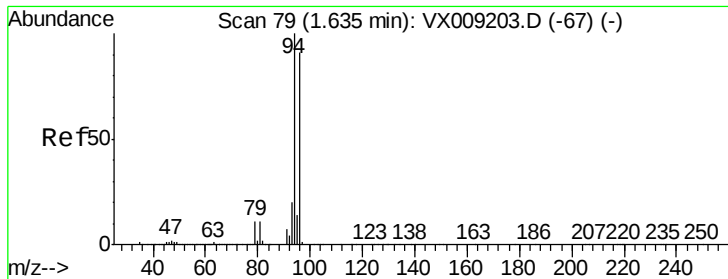
200

100

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.218 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

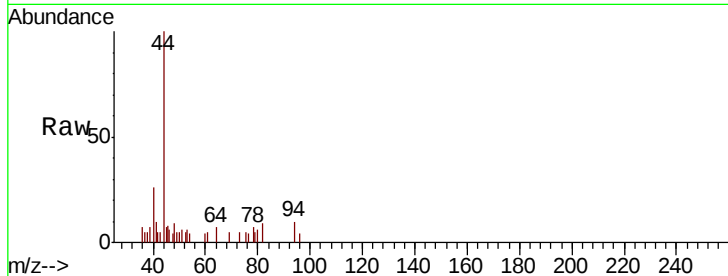
BP-VPB202-DUP-20190513

Tot Ion: 94 Resp: 257

Ion Ratio Lower Upper

94 100

96 42.3 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

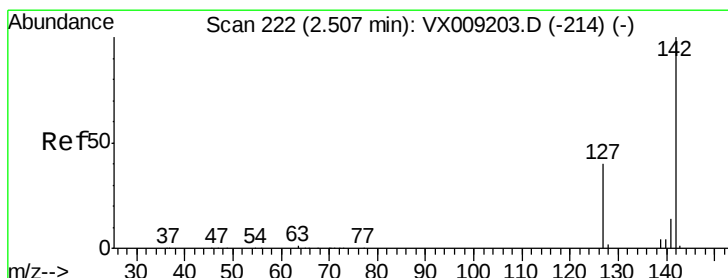
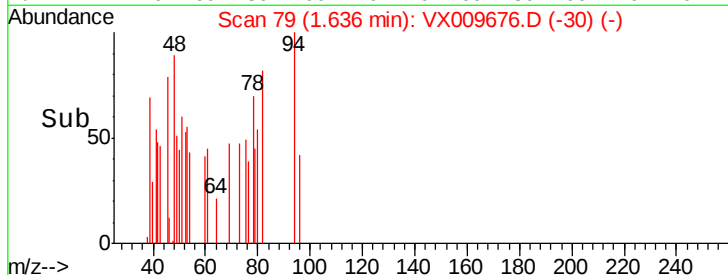
1.64

100

50

0

Time--> 1.60 1.65 1.70



#10

Methyl Iodide

Concen: 4.674 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

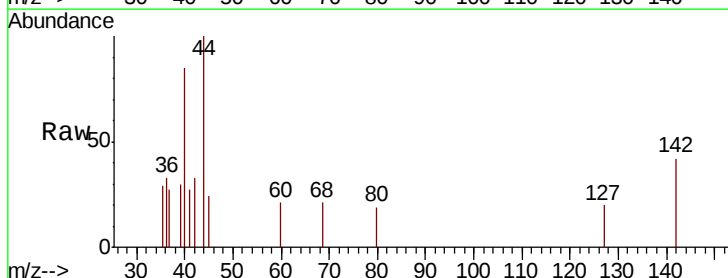
Tgt Ion: 142 Resp: 154

Ion Ratio Lower Upper

142 100

127 13.6 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

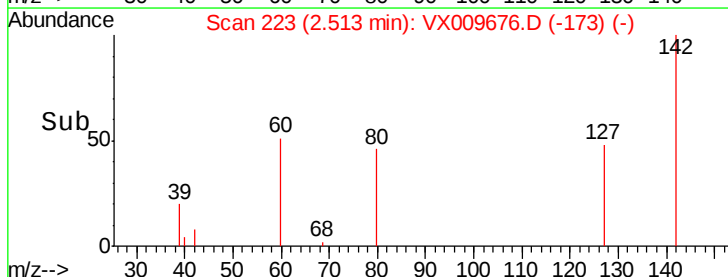
2.51

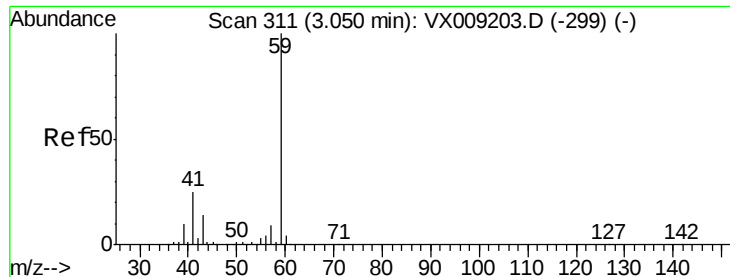
100

50

0

Time--> 2.48 2.50 2.52 2.54

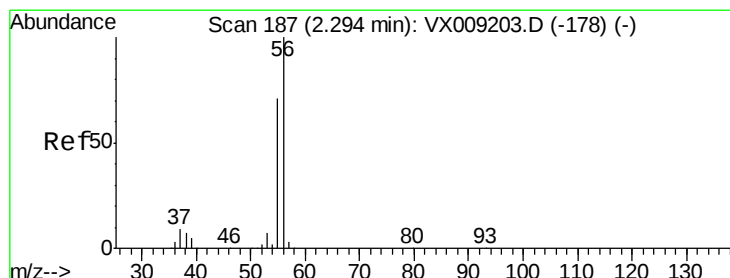
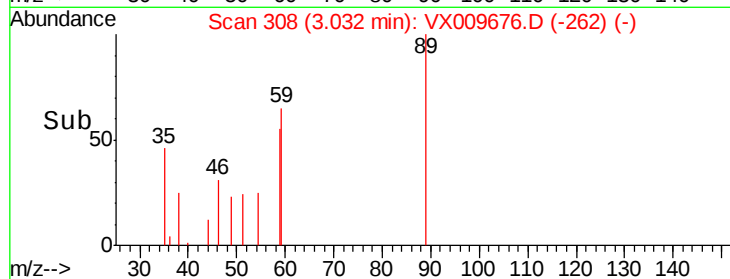
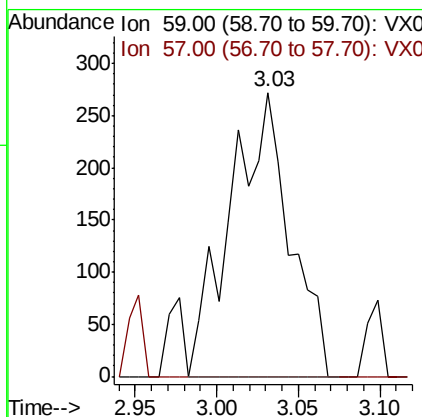
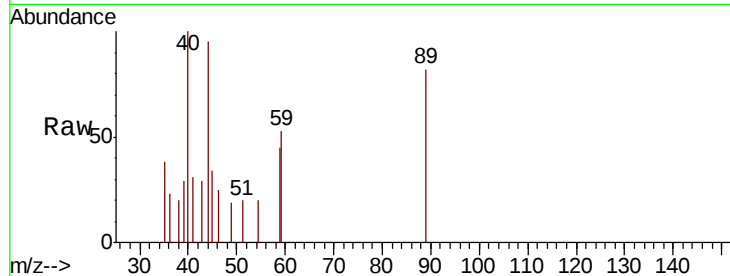




#11
Tert butyl alcohol
Concen: 1.372 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX009676.D
Acq: 17 May 2019 20:53

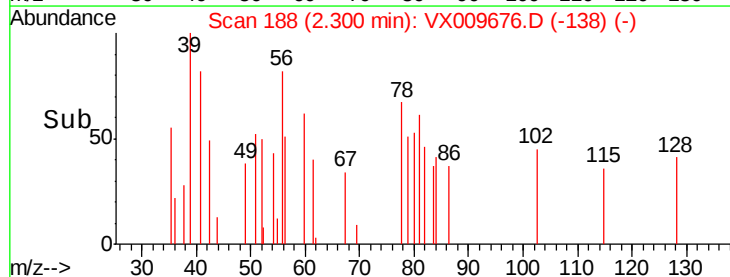
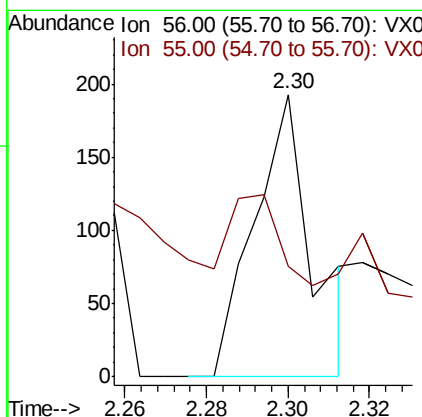
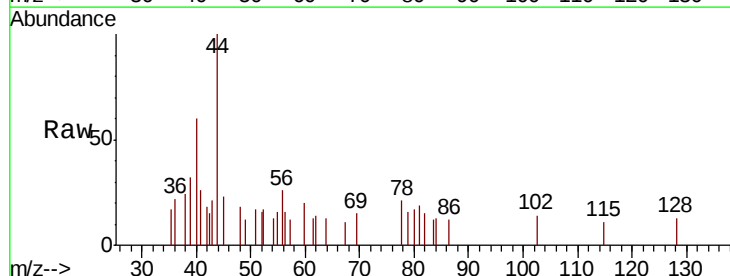
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-DUP-20190513

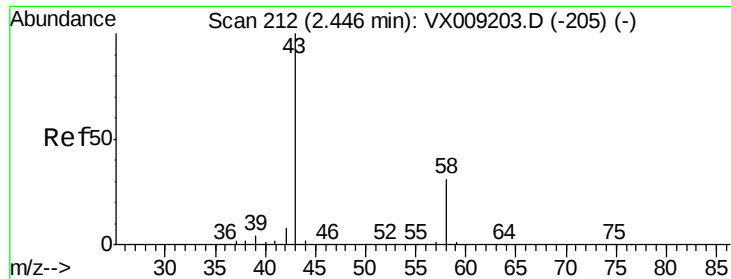
Tot Ion: 59 Resp: 693
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.418 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX009676.D
Acq: 17 May 2019 20:53

Tgt Ion: 56 Resp: 191
Ion Ratio Lower Upper
56 100
55 73.3 56.6 85.0





#16

Acetone

Concen: 6.390 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

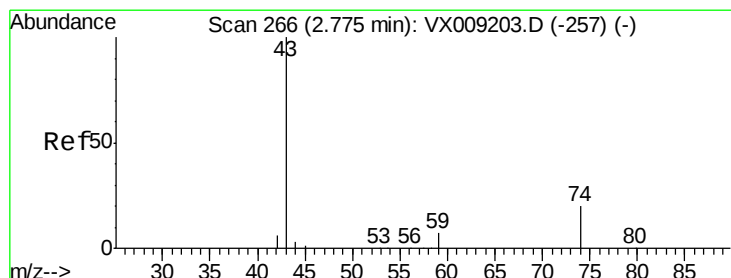
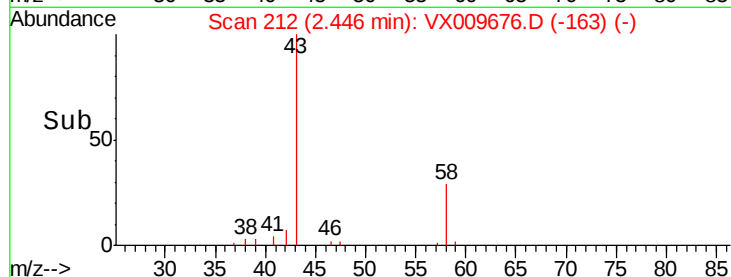
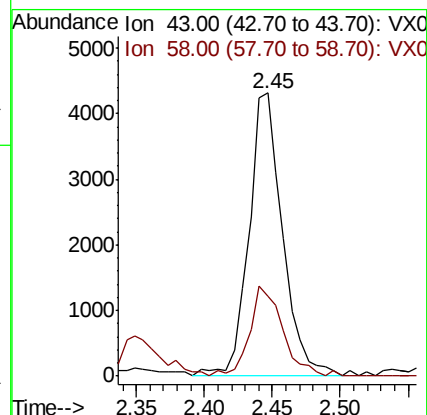
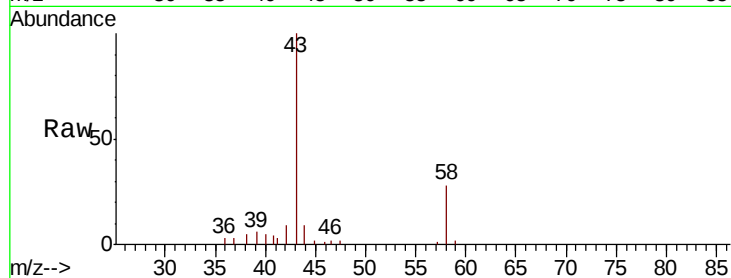
BP-VPB202-DUP-20190513

Tot Ion: 43 Resp: 7487

Ion Ratio Lower Upper

43 100

58 28.3 24.9 37.3



#18

Methyl Acetate

Concen: 0.219 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX009676.D

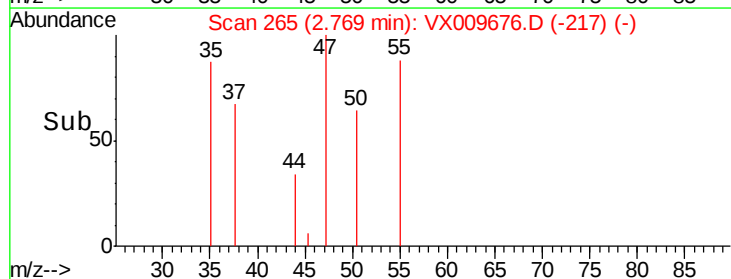
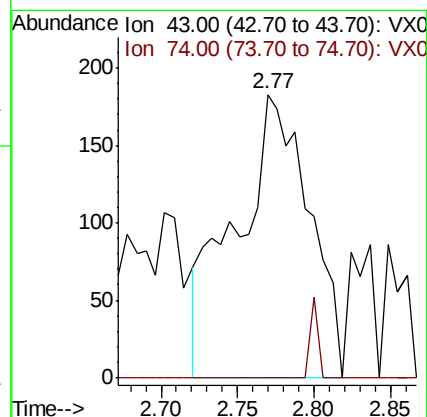
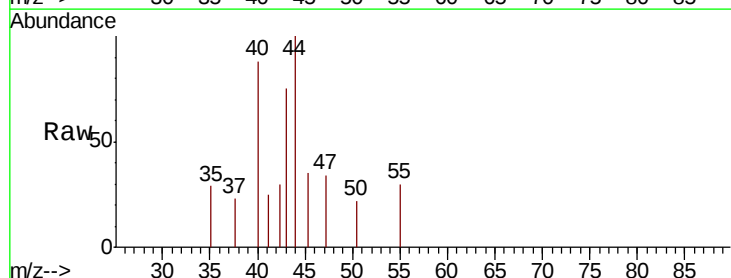
Acq: 17 May 2019 20:53

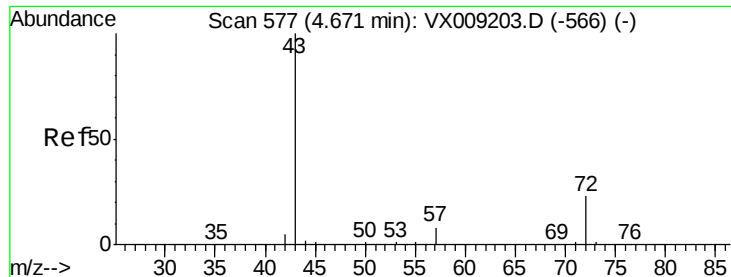
Tgt Ion: 43 Resp: 611

Ion Ratio Lower Upper

43 100

74 0.0 16.2 24.4#





#25

2-Butanone

Concen: 1.087 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

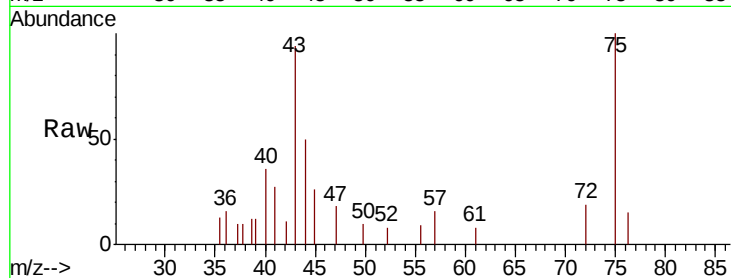
BP-VPB202-DUP-20190513

Tot Ion: 43 Resp: 1980

Ion Ratio Lower Upper

43 100

72 20.5 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

600

400

200

0

4.60

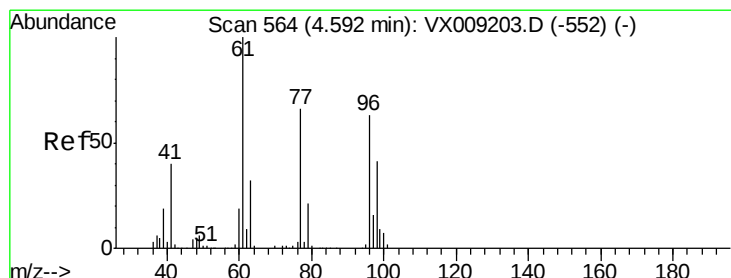
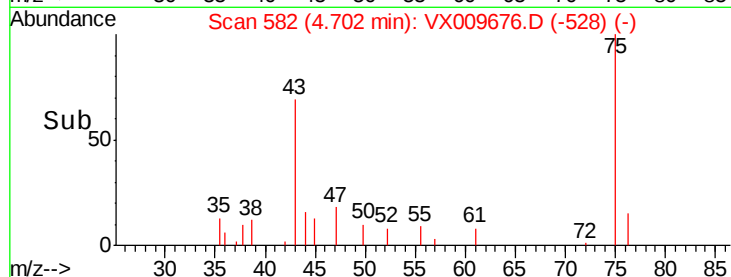
4.65

4.70

4.75

4.80

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.457 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

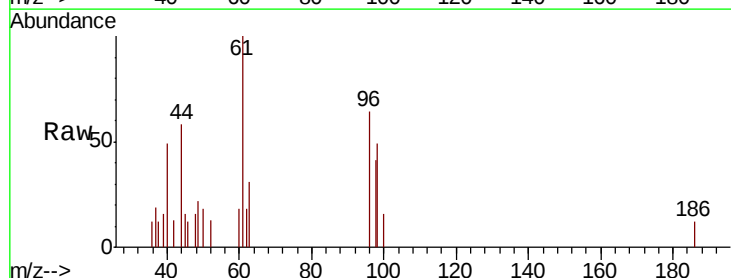
Tgt Ion: 96 Resp: 888

Ion Ratio Lower Upper

96 100

61 149.5 0.0 324.0

98 81.3 0.0 130.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

600

500

400

300

200

100

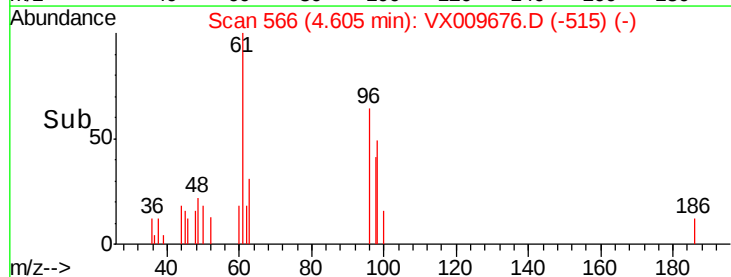
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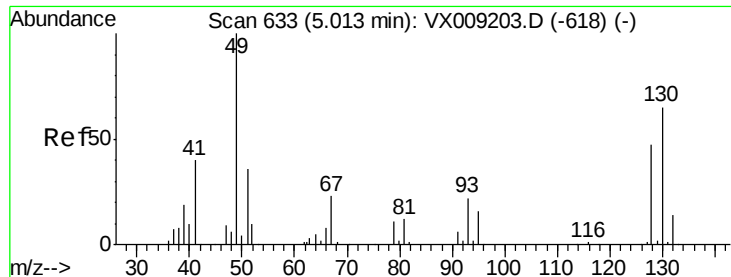
4.55

4.60

4.65

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

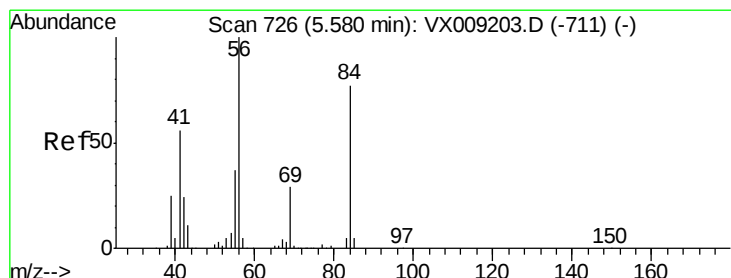
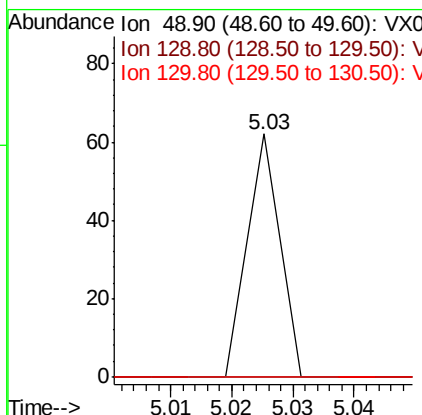
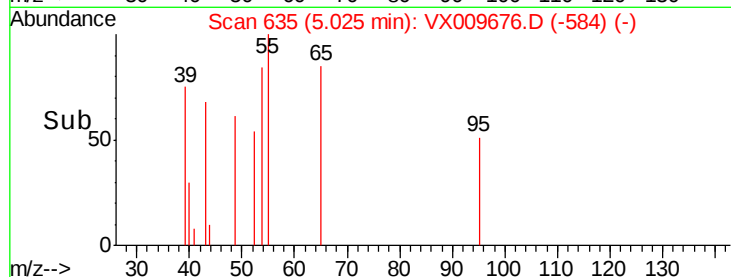
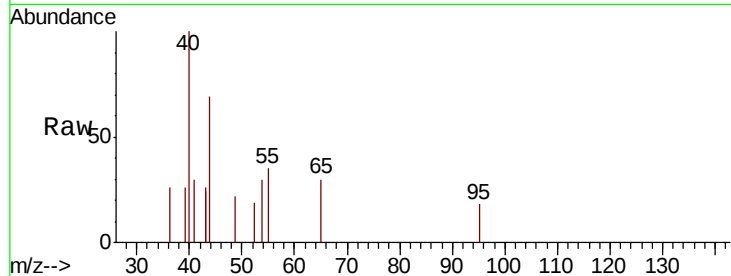
Delta R.T. 0.01 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :
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Tot Ion: 49 Resp: 23
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



#31

Cyclohexane

Concen: 1.146 ug/l

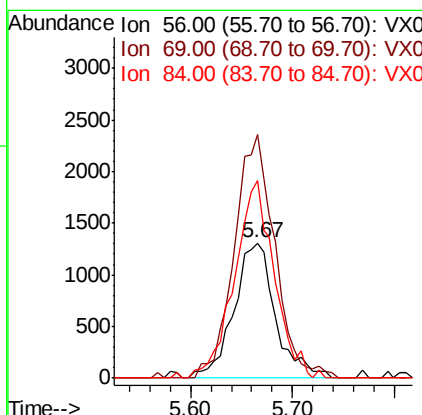
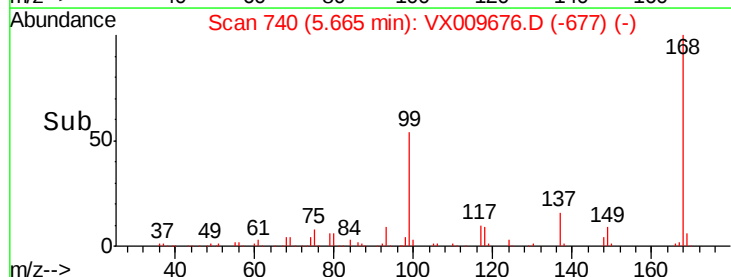
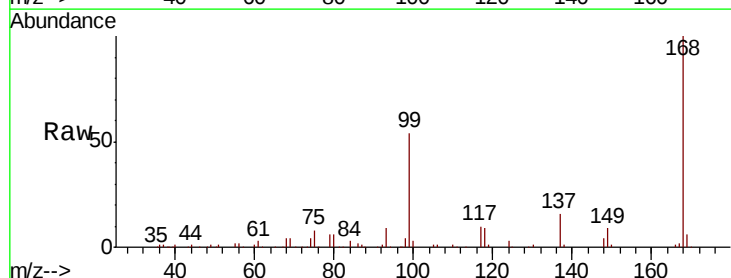
RT: 5.67 min Scan# 740

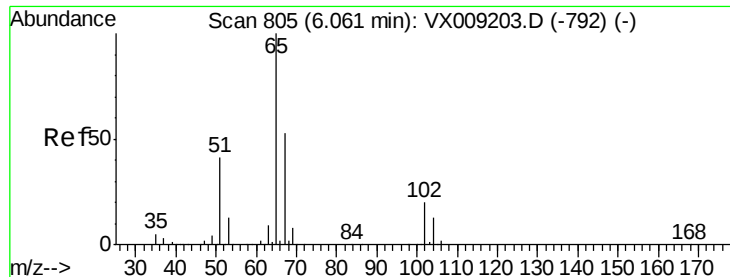
Delta R.T. 0.09 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Tgt Ion: 56 Resp: 3698
Ion Ratio Lower Upper
56 100
69 180.6 23.4 35.0#
84 146.7 61.9 92.9#





#33

1,2-Dichloroethane-d4

Concen: 48.944 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

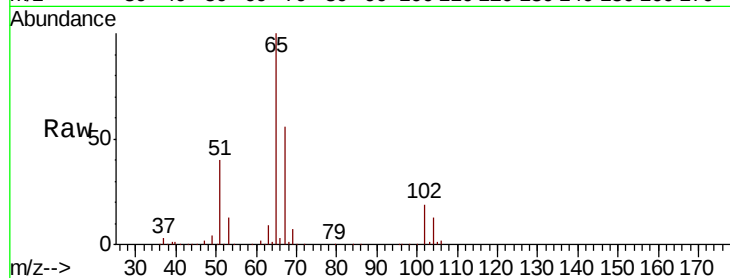
BP-VPB202-DUP-20190513

Tot Ion: 65 Resp: 106802

Ion Ratio Lower Upper

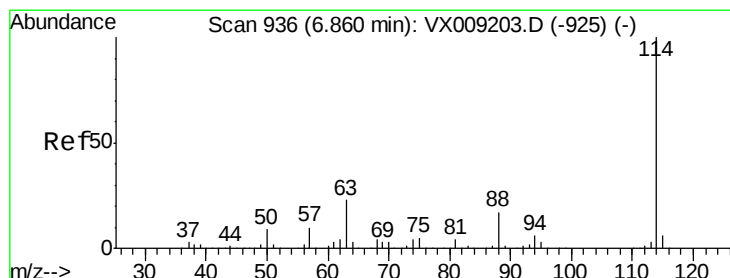
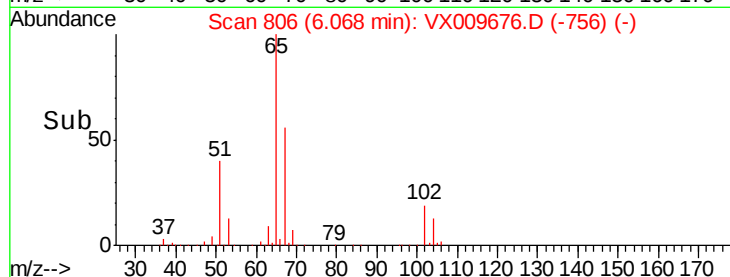
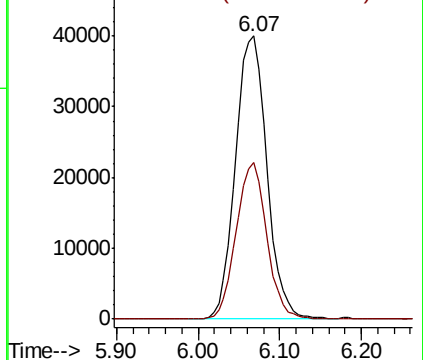
65 100

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: VX009676.D

Acq: 17 May 2019 20:53

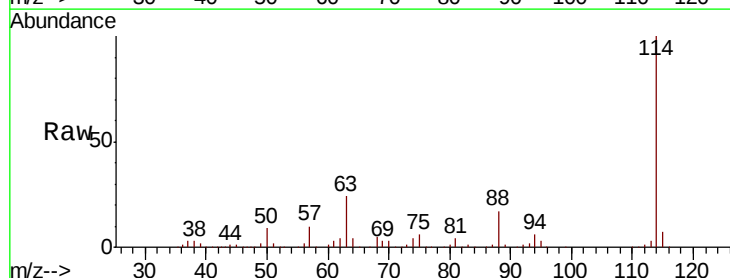
Tgt Ion: 114 Resp: 253223

Ion Ratio Lower Upper

114 100

63 23.8 0.0 45.6

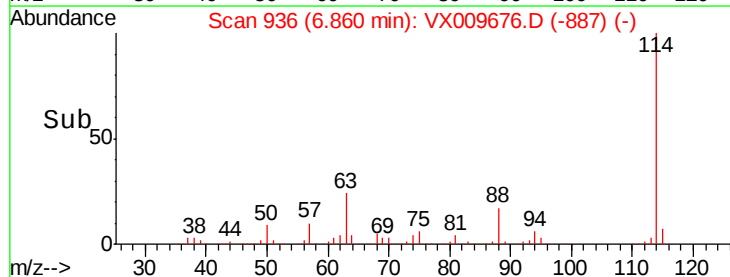
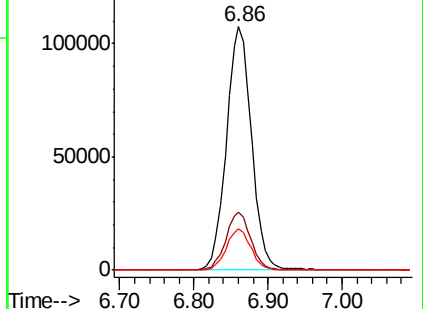
88 17.1 0.0 33.2

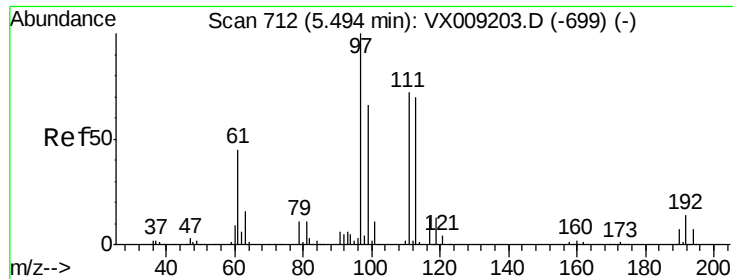


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

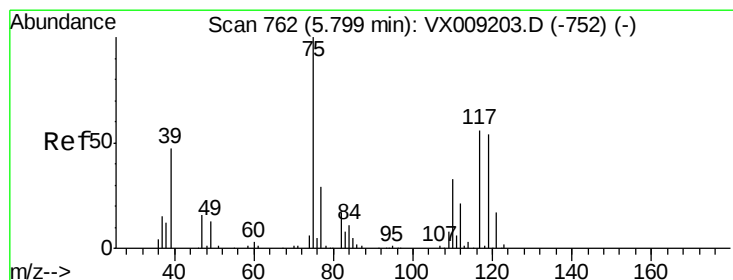
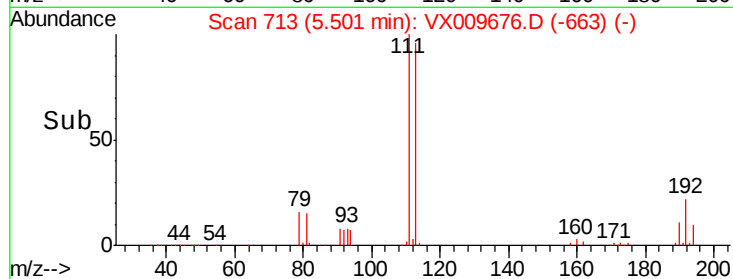
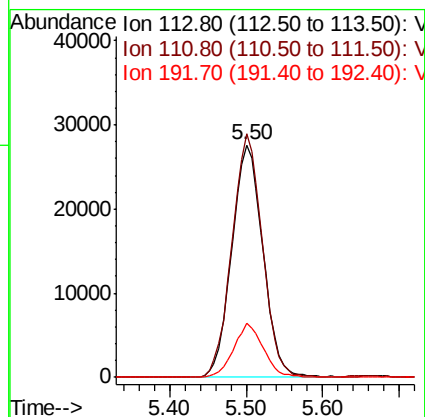
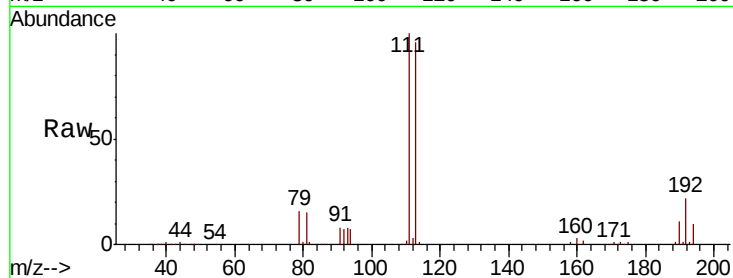




#35
 Dibromofluoromethane
 Concen: 48.954 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009676.D
 Acq: 17 May 2019 20:53

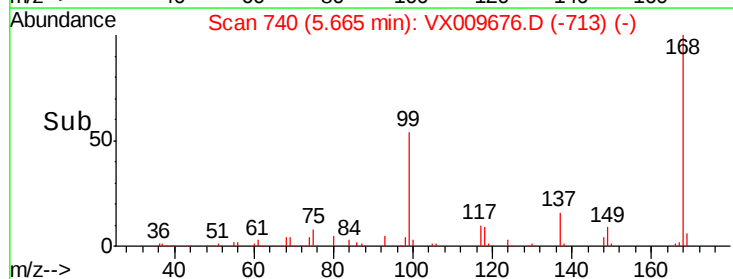
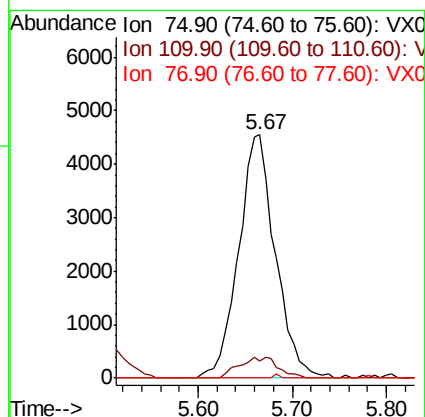
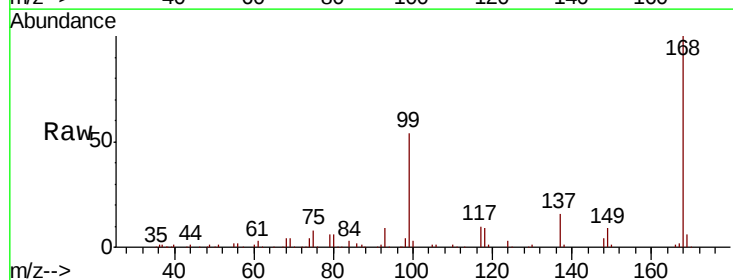
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-DUP-20190513

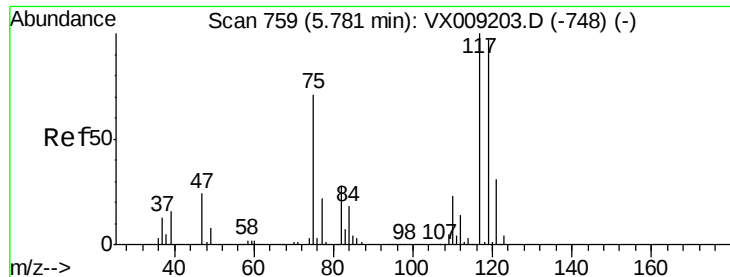
Tot Ion:113 Resp: 77928
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.8 124.2
 192 22.0 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.257 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009676.D
 Acq: 17 May 2019 20:53

Tgt Ion: 75 Resp: 12372
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.9 50.6#
 77 0.0 24.8 37.2#

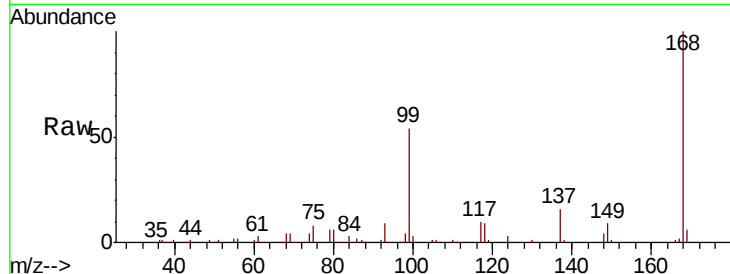




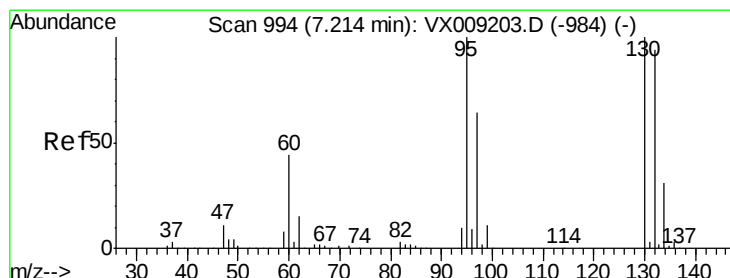
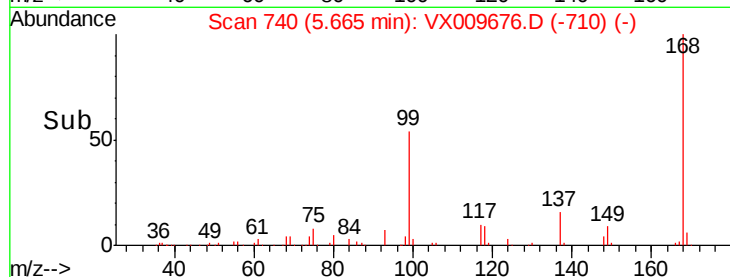
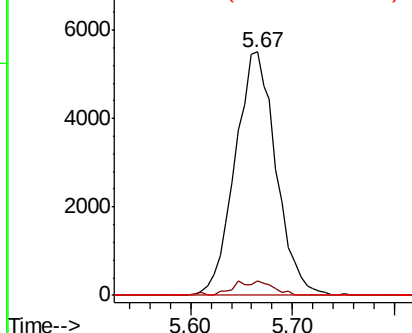
#38
Carbon Tetrachloride
Concen: 7.163 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009676.D
Acq: 17 May 2019 20:53

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-DUP-20190513

Tot Ion:117 Resp: 15314
Ion Ratio Lower Upper
117 100
119 6.0 77.5 116.3#
121 0.0 24.7 37.1#

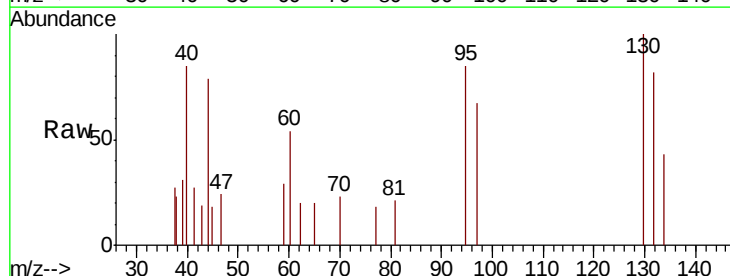


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

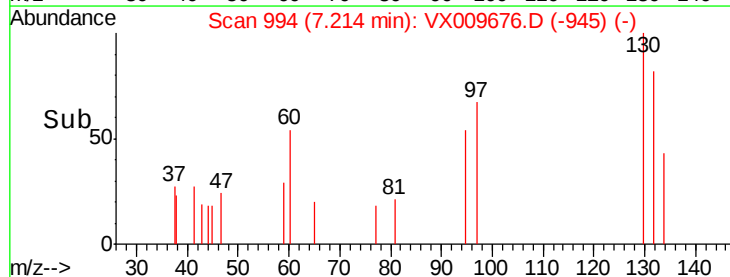
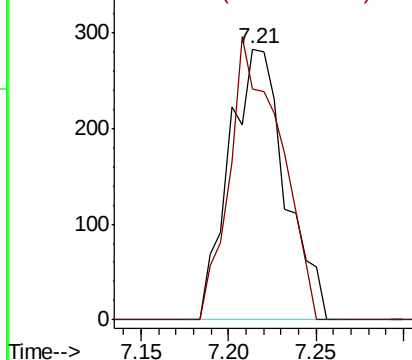


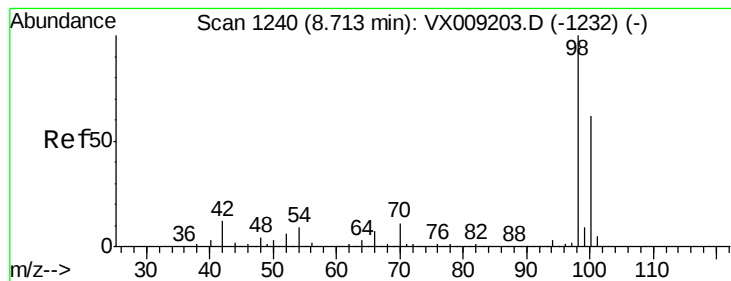
#44
Trichloroethene
Concen: 0.358 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX009676.D
Acq: 17 May 2019 20:53

Tgt Ion:130 Resp: 631
Ion Ratio Lower Upper
130 100
95 85.2 0.0 199.2



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





#50

Toluene-d8

Concen: 49.646 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

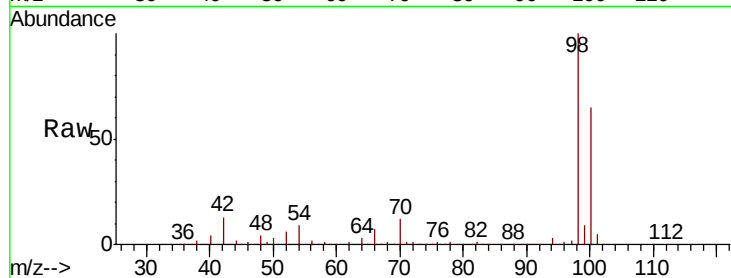
BP-VPB202-DUP-20190513

Tot Ion: 98 Resp: 319065

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

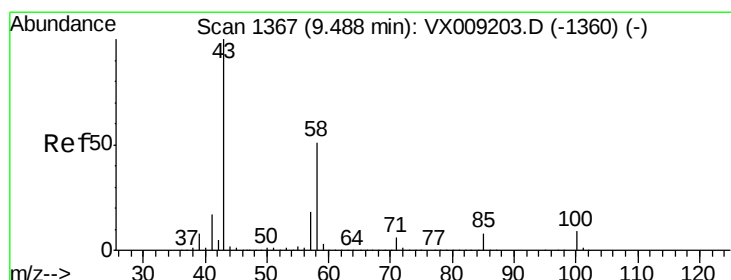
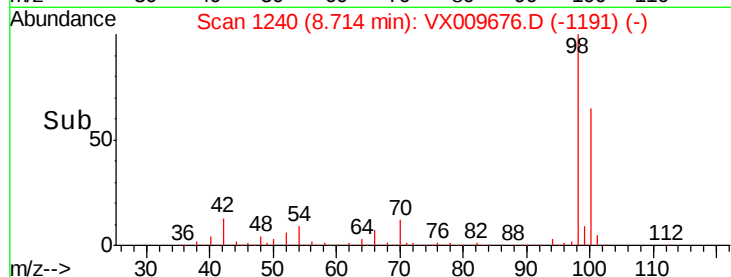
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 0.315 ug/l

RT: 9.51 min Scan# 1371

Delta R.T. 0.02 min

Lab File: VX009676.D

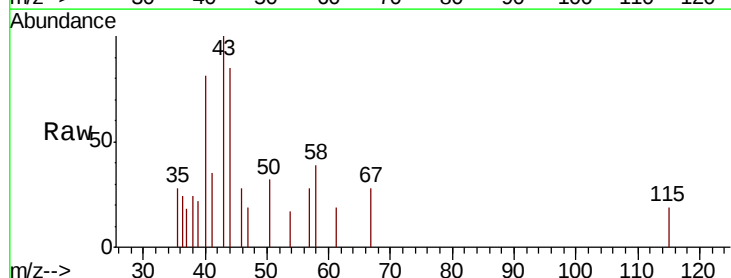
Acq: 17 May 2019 20:53

Tgt Ion: 43 Resp: 847

Ion Ratio Lower Upper

43 100

58 48.2 25.9 77.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

800

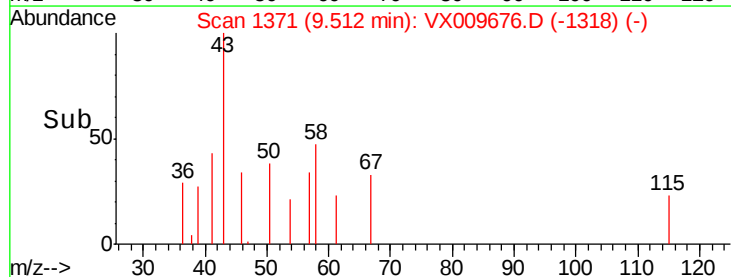
600

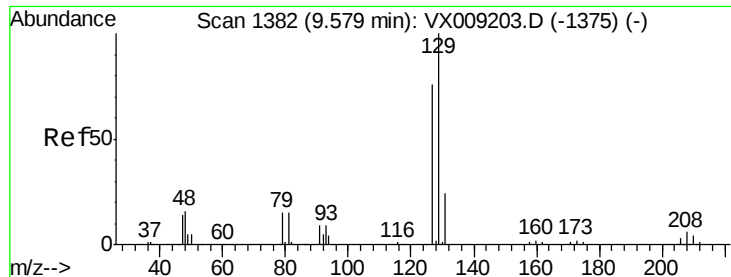
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 0.729 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

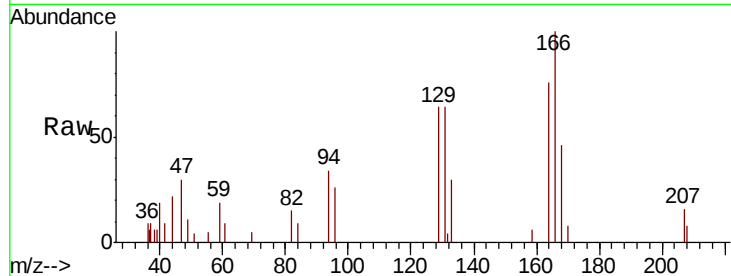
BP-VPB202-DUP-20190513

Tot Ion:129 Resp: 1286

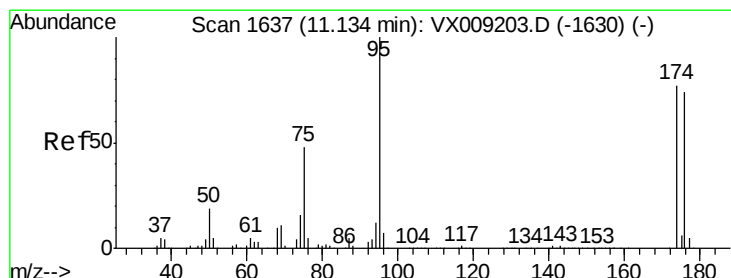
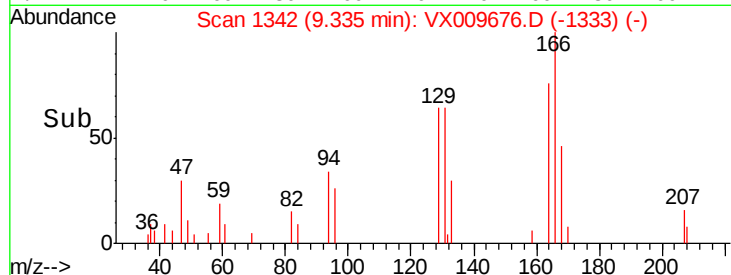
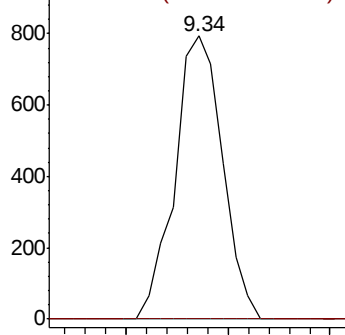
Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V



#62

4-Bromofluorobenzene

Concen: 43.170 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

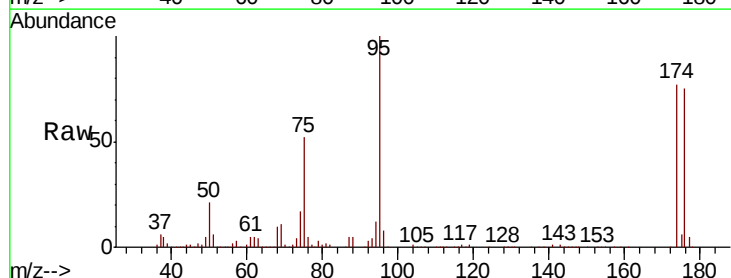
Tgt Ion: 95 Resp: 100813

Ion Ratio Lower Upper

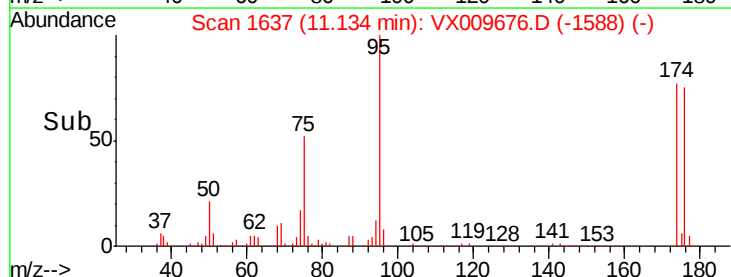
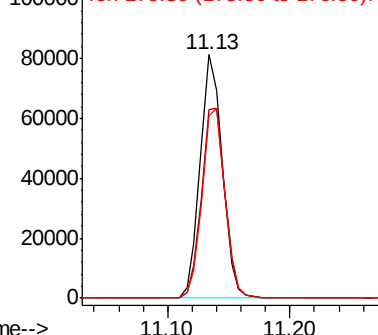
95 100

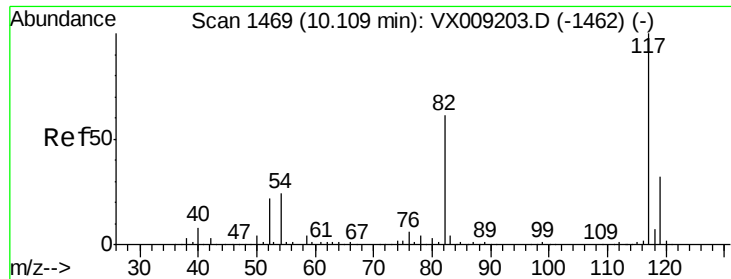
174 82.6 0.0 161.6

176 80.7 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

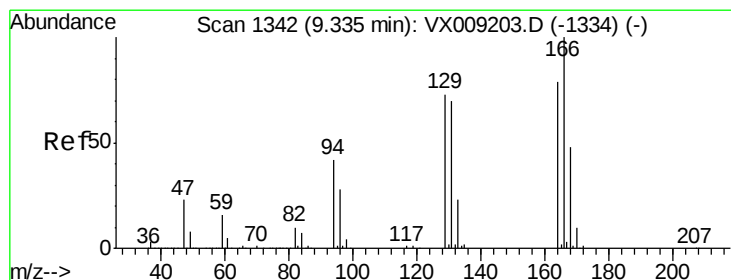
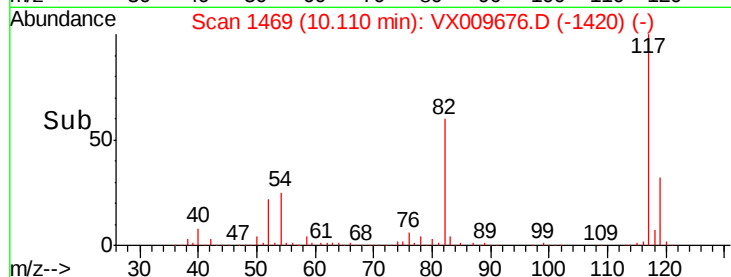
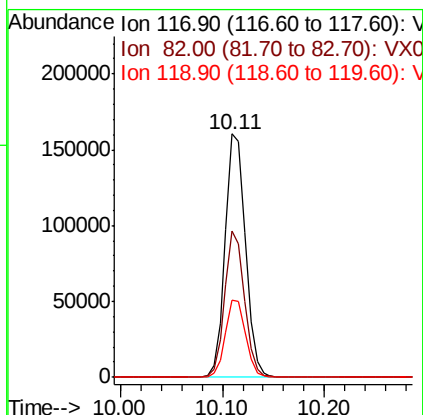
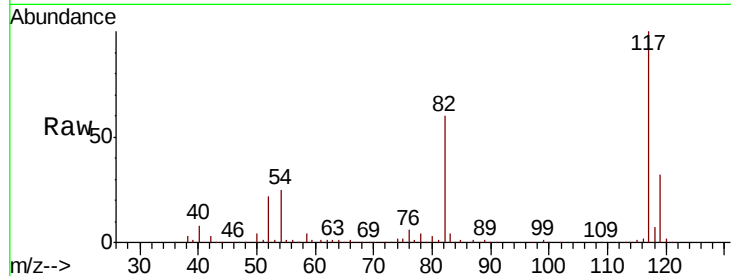




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009676.D
Acq: 17 May 2019 20:53

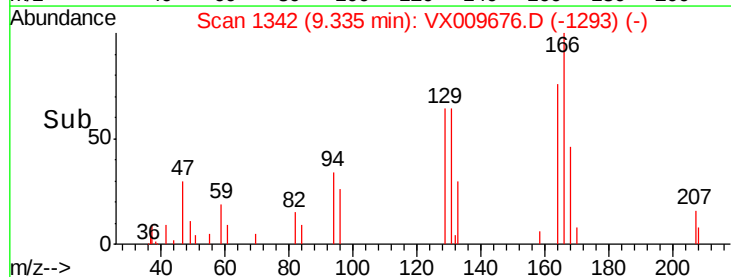
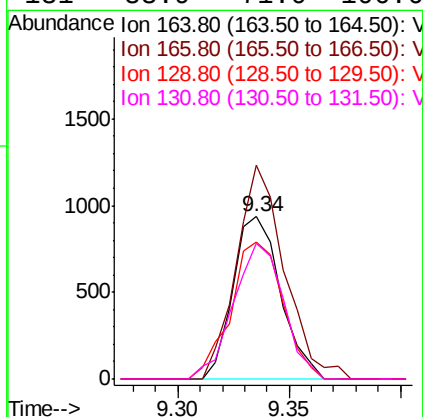
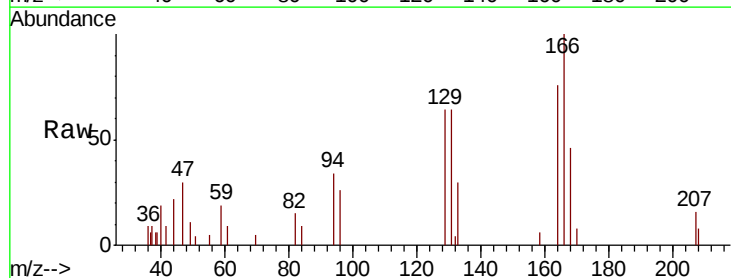
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-DUP-20190513

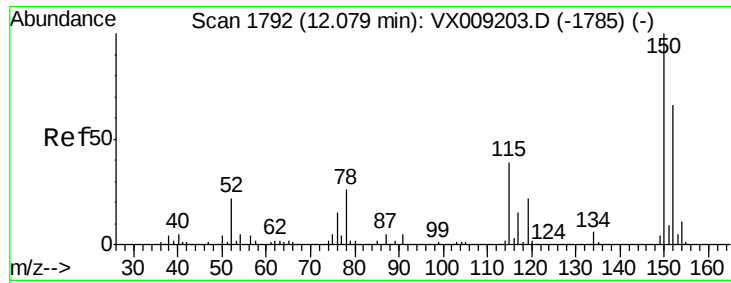
Tot Ion:117 Resp: 222136
Ion Ratio Lower Upper
117 100
82 60.3 48.8 73.2
119 31.7 25.8 38.6



#64
Tetrachloroethene
Concen: 0.913 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009676.D
Acq: 17 May 2019 20:53

Tgt Ion:164 Resp: 1391
Ion Ratio Lower Upper
164 100
166 131.8 101.2 151.8
129 84.8 74.3 111.5
131 83.9 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-DUP-20190513

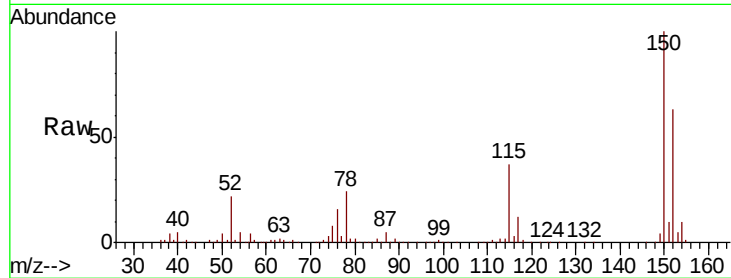
Tot Ion:152 Resp: 87008

Ion Ratio Lower Upper

152 100

115 59.2 41.2 123.6

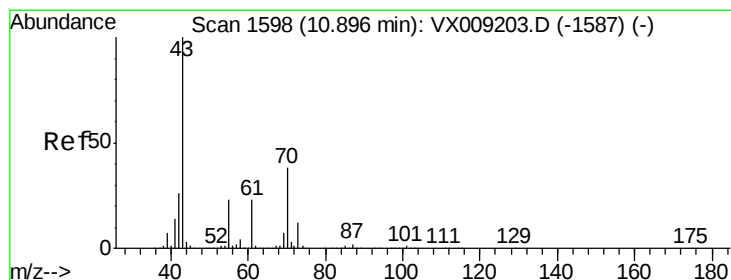
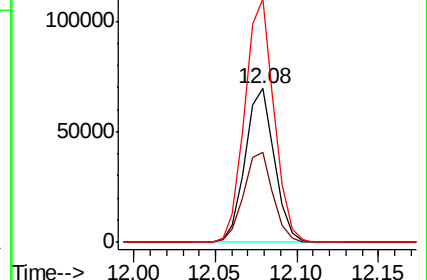
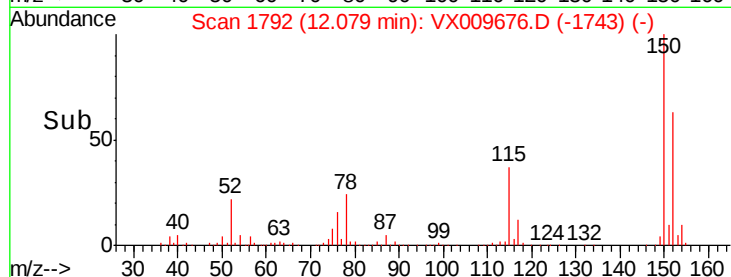
150 158.4 0.0 346.4



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



#74

N-ethyl acetate

Concen: 0.385 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Tgt Ion: 43 Resp: 1419

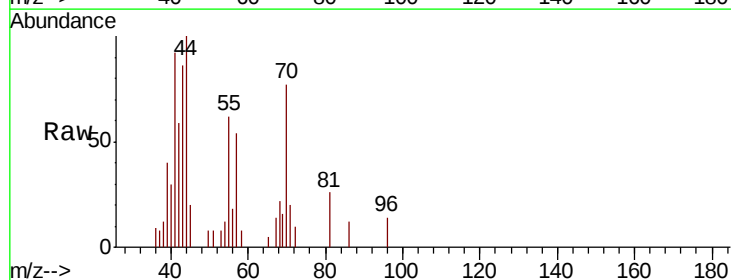
Ion Ratio Lower Upper

43 100

70 69.5 30.0 45.0#

55 84.2 17.9 26.9#

61 0.0 18.4 27.6#

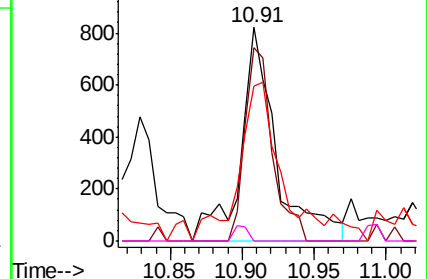
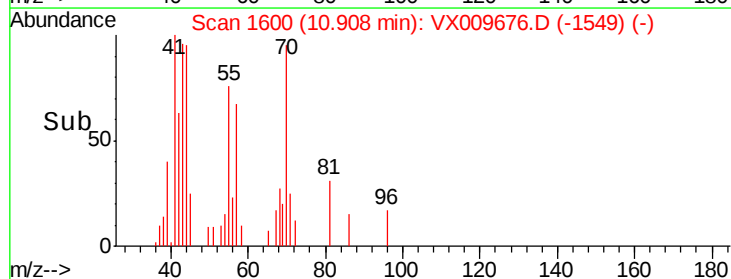


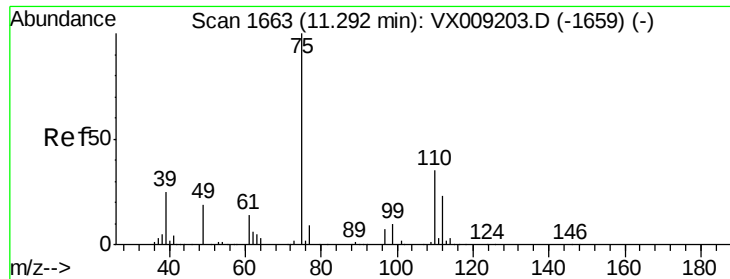
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 26.063 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

Instrument :

MSVOA_X

ClientSampleId :

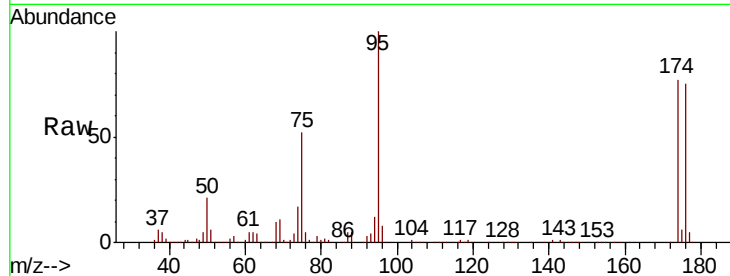
BP-VPB202-DUP-20190513

Tot Ion: 75 Resp: 52602

Ion Ratio Lower Upper

75 100

77 1.4 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

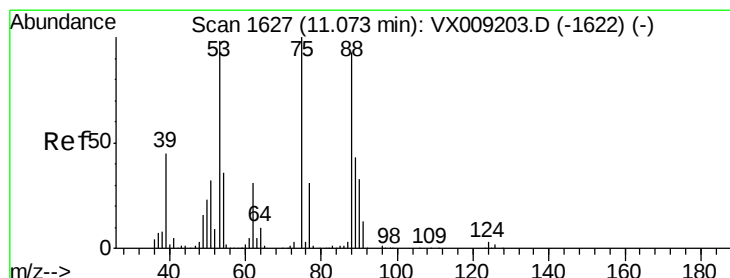
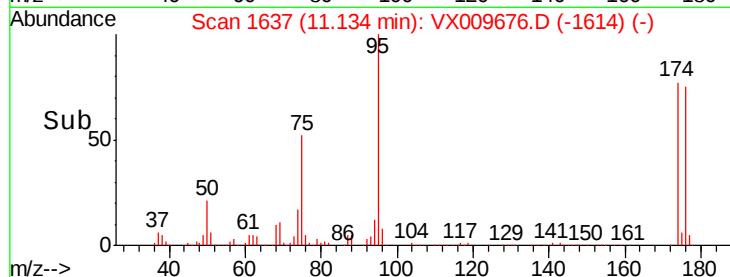
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.686 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009676.D

Acq: 17 May 2019 20:53

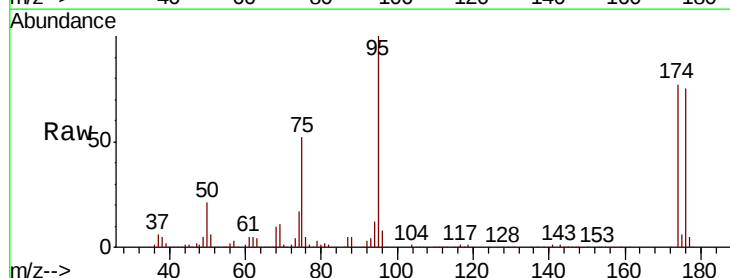
Tgt Ion: 75 Resp: 52602

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

11.13

50000

40000

30000

20000

10000

0

Time-->

11.10 11.20

