

Data File : VX008801.D
Acq On : 10 Apr 2019 13:36
Operator : JC/SP
Sample : K2349-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB05-190408

Quant Time: Apr 11 05:41:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	201693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	327775	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	281488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114698	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	133130	45.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.50%	
35) Dibromofluoromethane	5.50	113	97886	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
50) Toluene-d8	8.71	98	406411	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	
62) 4-Bromofluorobenzene	11.13	95	133422	45.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.18%	

Target Compounds

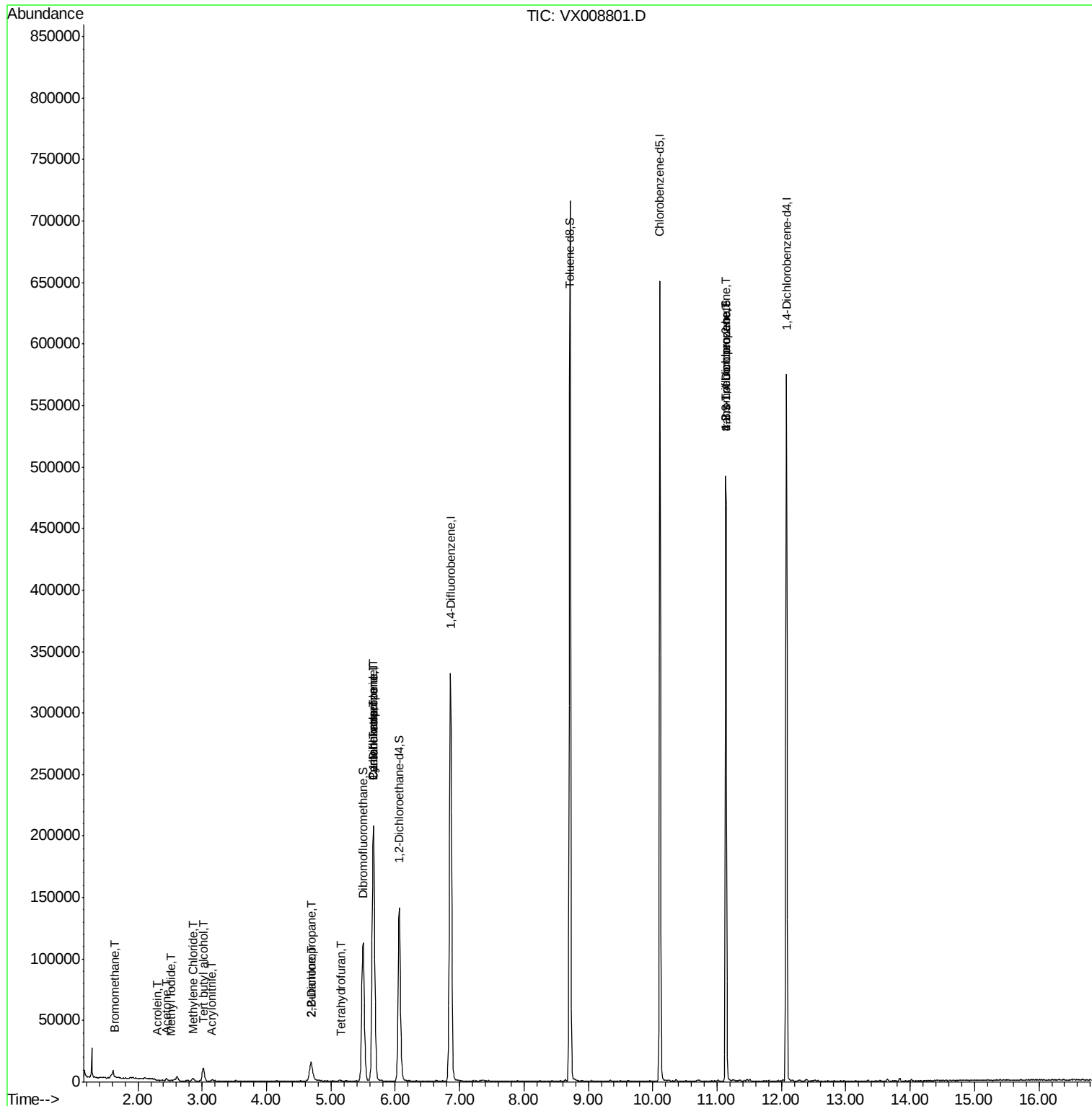
					Qvalue	
3) Chloromethane	1.33	50	470	Below Cal		96
5) Bromomethane	1.64	94	240	2.035 ug/l #		73
6) Chloroethane	1.70	64	76	Below Cal	#	43
10) Methyl Iodide	2.51	142	513	4.235 ug/l #		91
11) Tert butyl alcohol	3.02	59	7181	10.427 ug/l #		75
13) Acrolein	2.29	56	260	0.761 ug/l		96
15) Acrylonitrile	3.15	53	513	0.281 ug/l #		66
16) Acetone	2.44	43	2121	1.252 ug/l		89
17) Carbon Disulfide	2.57	76	1338	Below Cal		98
20) Methylene Chloride	2.85	84	886	0.312 ug/l #		94
25) 2-Butanone	4.69	43	1685	0.629 ug/l		97
26) 2,2-Dichloropropane	4.68	77	1314	0.366 ug/l #		53
28) Bromochloromethane	5.02	49	45	Below Cal	#	75
29) Tetrahydrofuran	5.15	42	499	0.281 ug/l #		83
31) Cyclohexane	5.66	56	4261	0.838 ug/l #		1
36) 1,1-Dichloropropene	5.66	75	16546	4.618 ug/l #		51
38) Carbon Tetrachloride	5.66	117	18636	6.284 ug/l #		17
76) 1,2,3-Trichloropropane	11.13	75	68640	21.785 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.13	75	68640	60.050 ug/l #		9

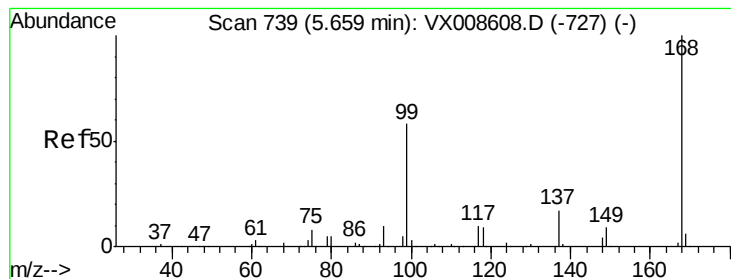
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

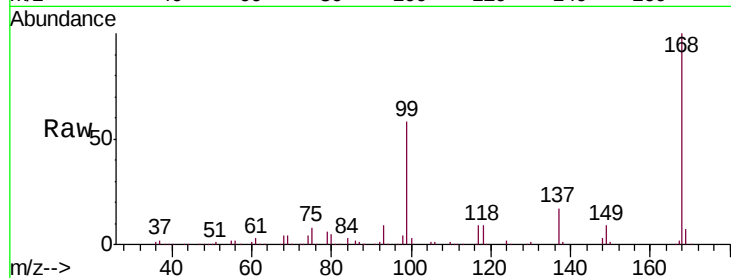
Z3-TB05-190408

Tgt Ion:168 Resp: 201693

Ion Ratio Lower Upper

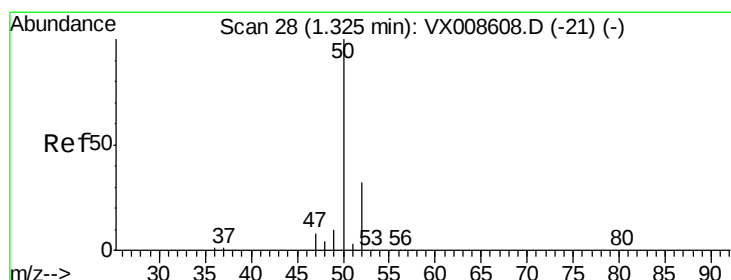
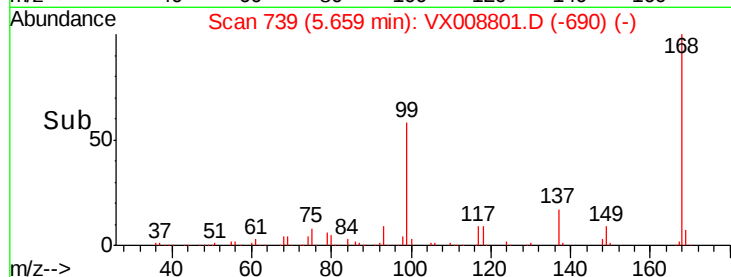
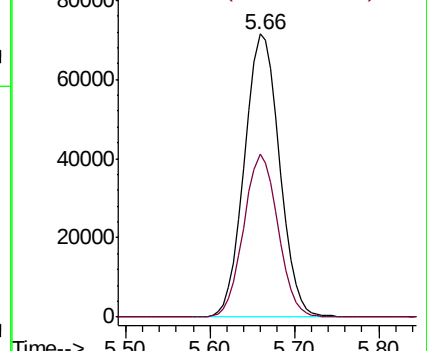
168 100

99 57.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008801.D

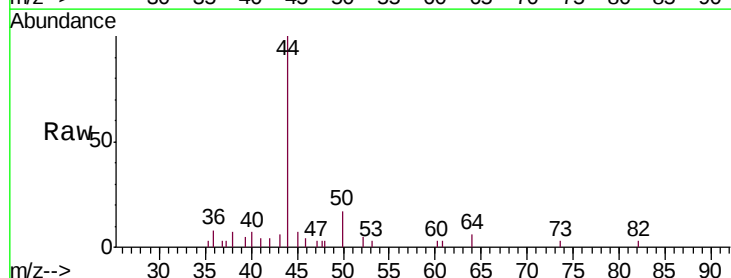
Acq: 10 Apr 2019 13:36

Tgt Ion: 50 Resp: 470

Ion Ratio Lower Upper

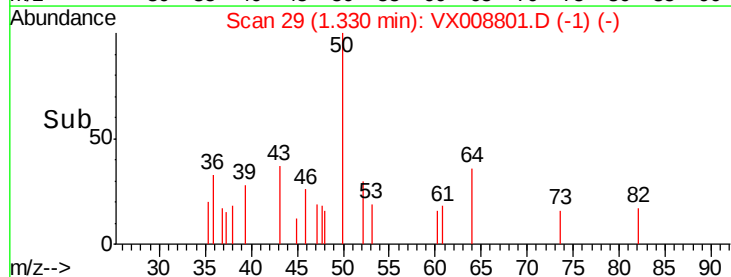
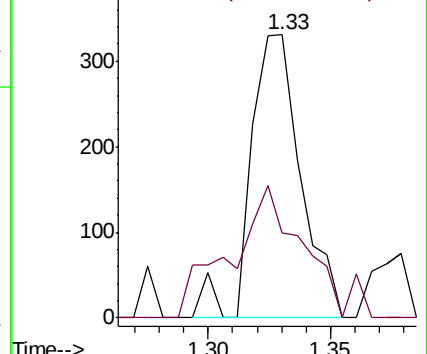
50 100

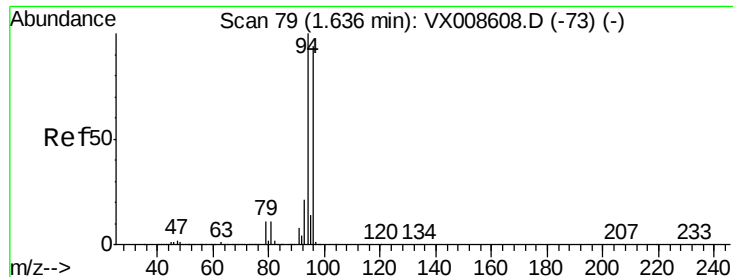
52 30.2 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.035 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

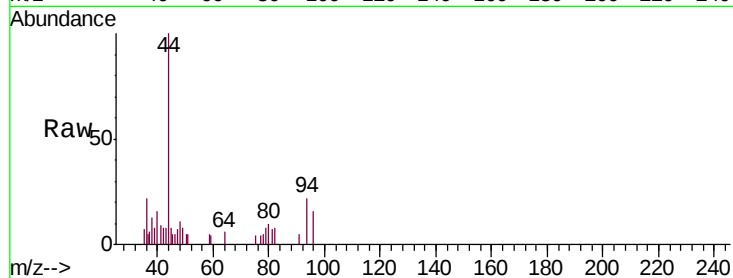
Z3-TB05-190408

Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

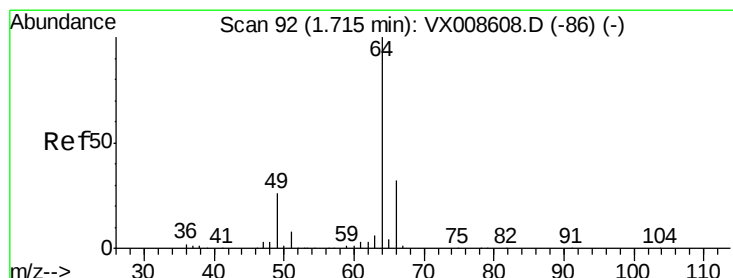
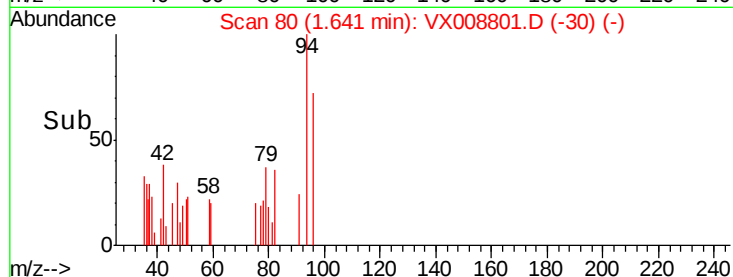
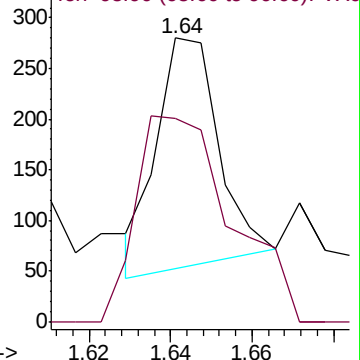
94 100

96 67.8 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX008801.D

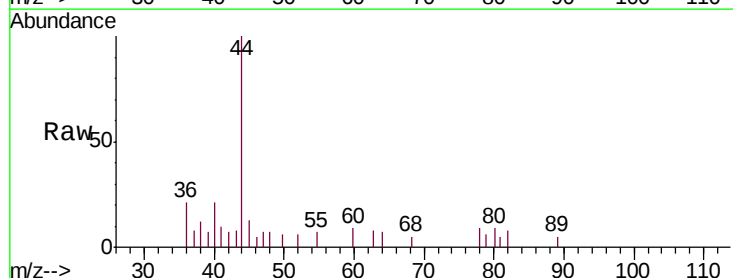
Acq: 10 Apr 2019 13:36

Tgt Ion: 64 Resp: 76

Ion Ratio Lower Upper

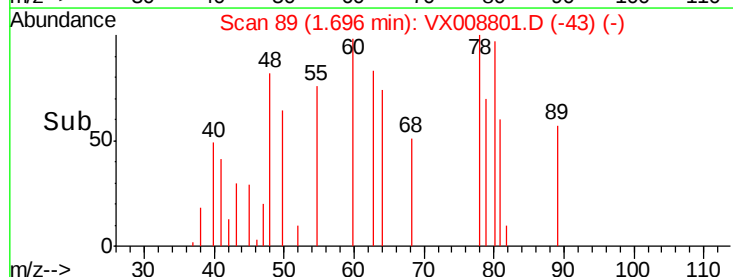
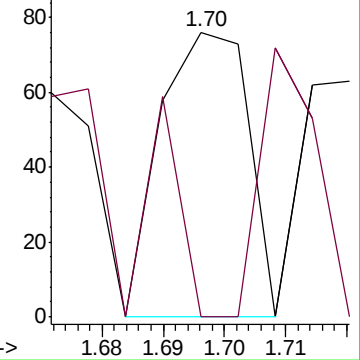
64 100

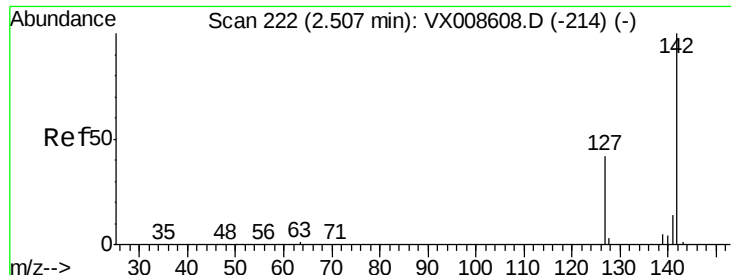
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

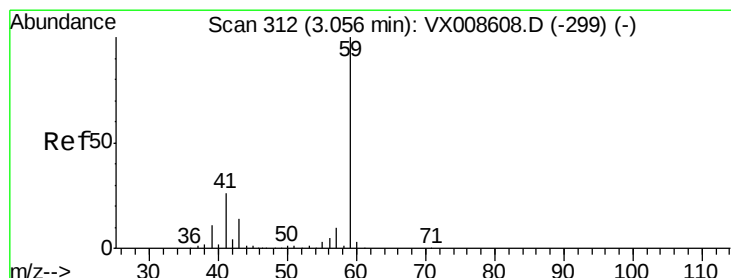
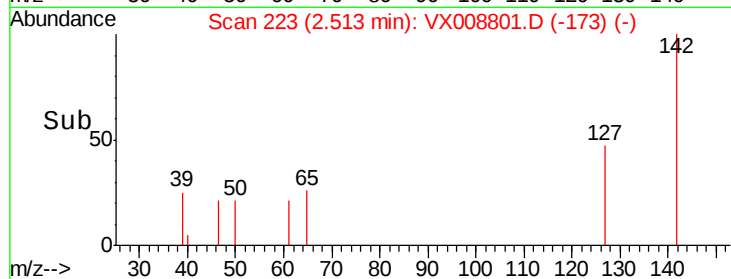
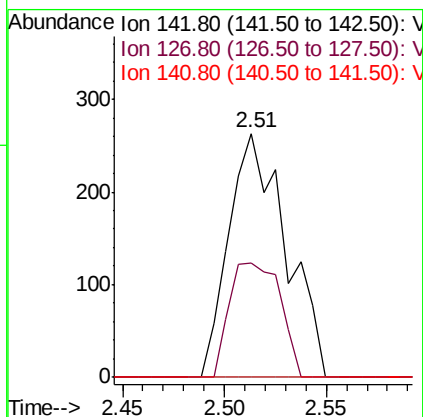
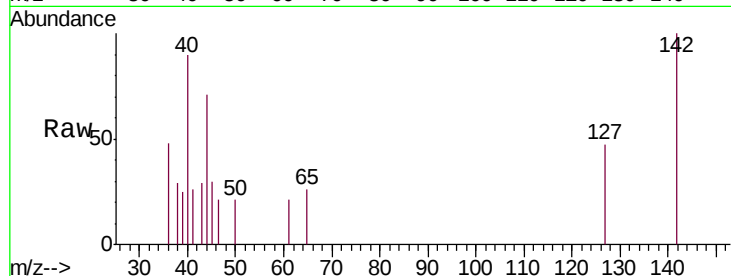




#10
Methyl Iodide
Concen: 4.235 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008801.D
Acq: 10 Apr 2019 13:36

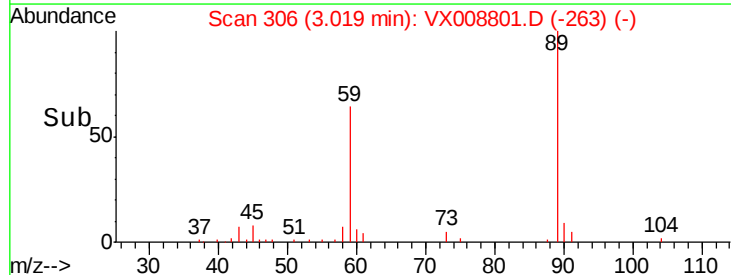
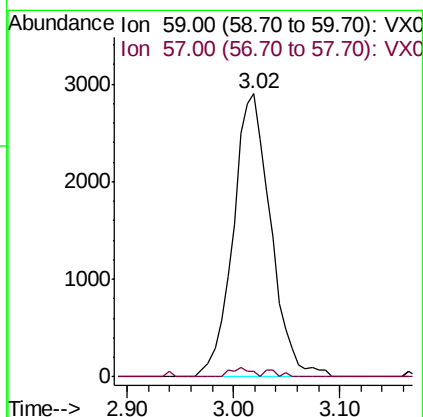
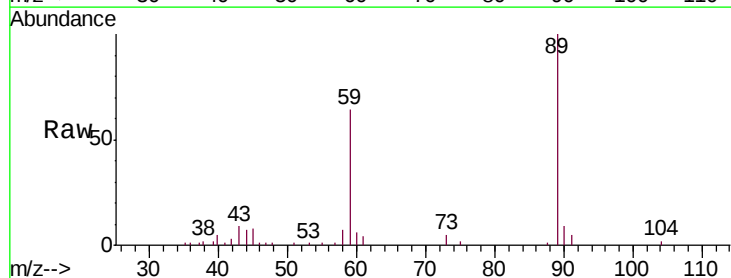
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB05-190408

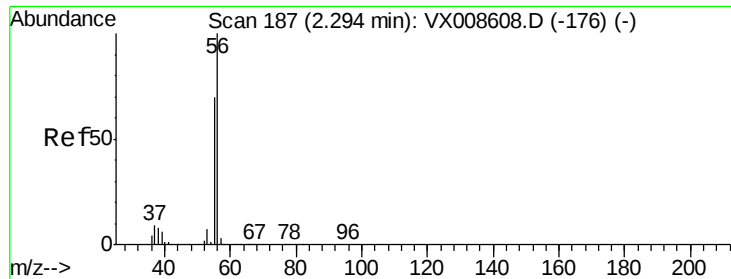
Tgt Ion: 142 Resp: 513
Ion Ratio Lower Upper
142 100
127 41.7 33.0 49.6
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 10.427 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008801.D
Acq: 10 Apr 2019 13:36

Tgt Ion: 59 Resp: 7181
Ion Ratio Lower Upper
59 100
57 1.0 8.3 12.5#





#13

Acrolein

Concen: 0.761 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

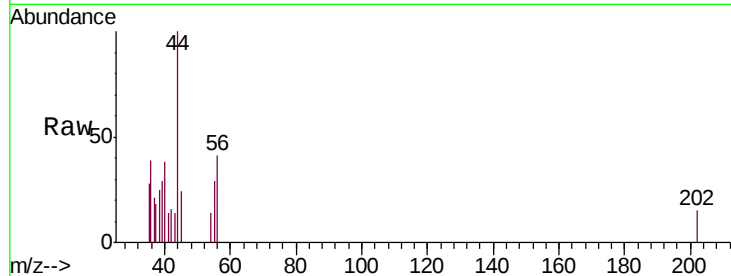
Z3-TB05-190408

Tgt Ion: 56 Resp: 260

Ion Ratio Lower Upper

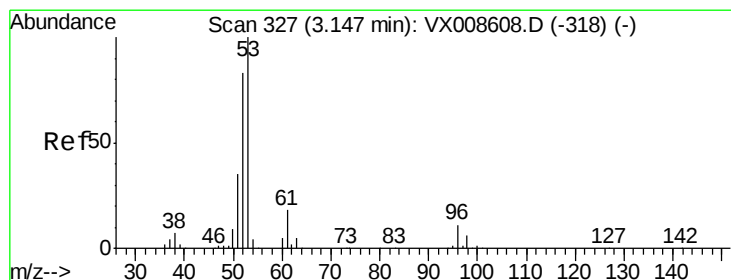
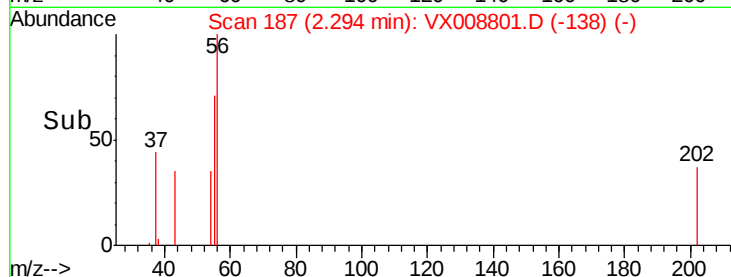
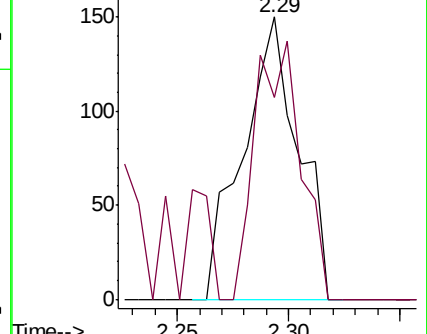
56 100

55 76.2 58.0 87.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.281 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

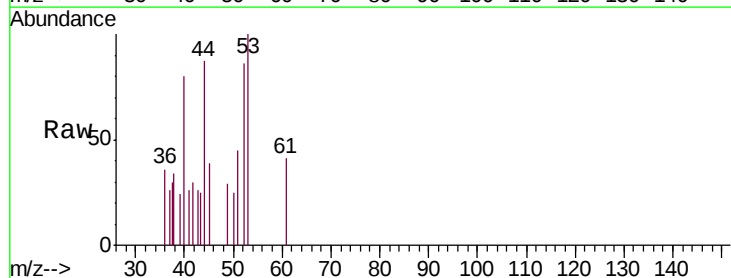
Tgt Ion: 53 Resp: 513

Ion Ratio Lower Upper

53 100

52 110.1 66.5 99.7#

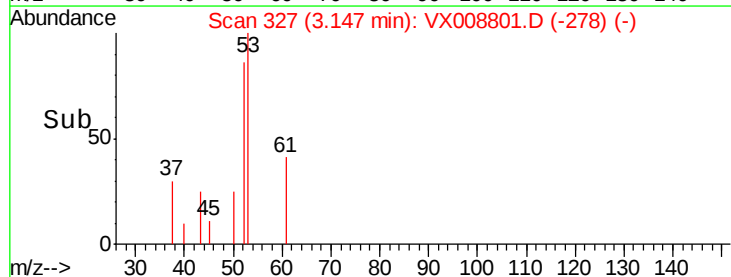
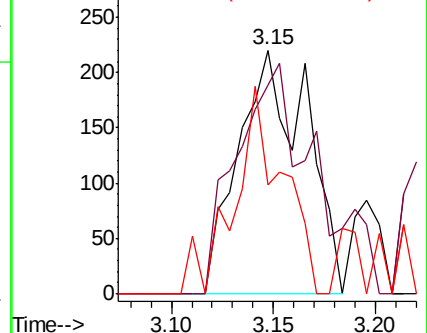
51 60.4 28.6 42.8#

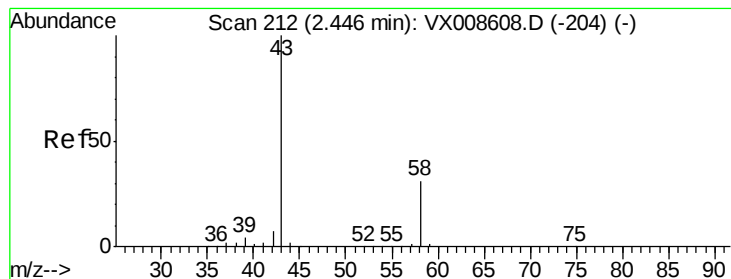


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.252 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

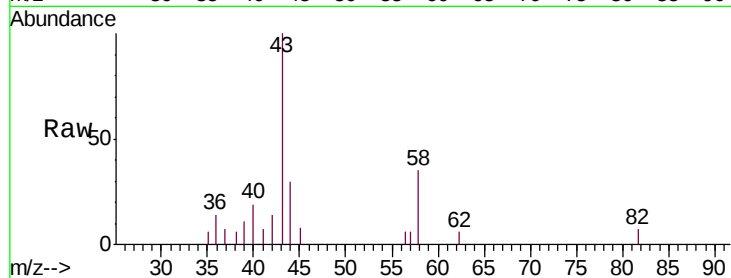
Z3-TB05-190408

Tgt Ion: 43 Resp: 2121

Ion Ratio Lower Upper

43 100

58 36.9 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

1200

1000

800

600

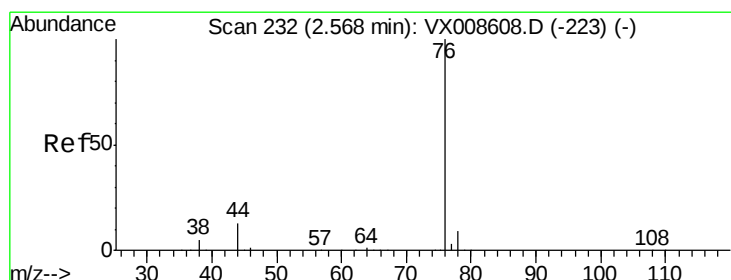
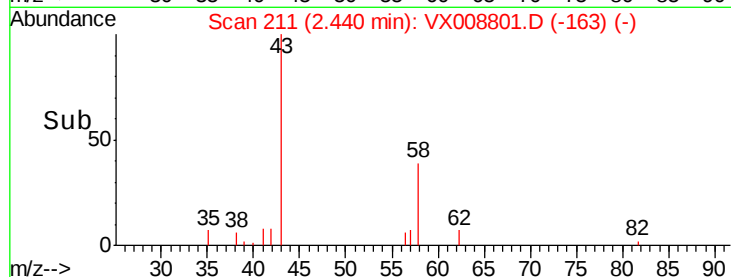
400

200

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX008801.D

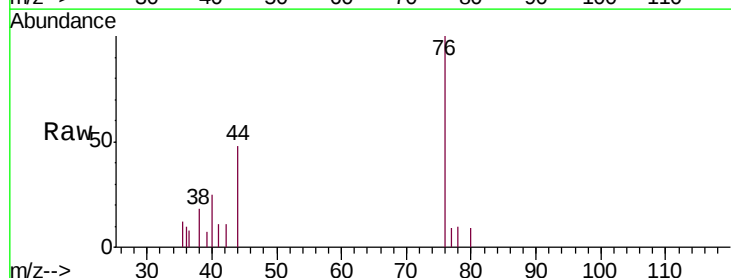
Acq: 10 Apr 2019 13:36

Tgt Ion: 76 Resp: 1338

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

600

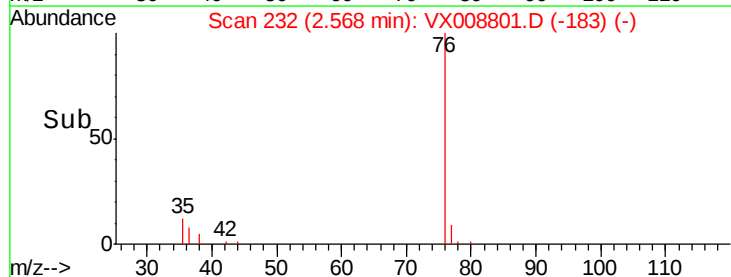
400

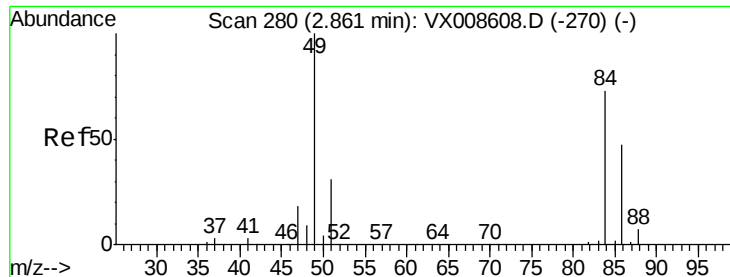
200

0

2.50 2.55 2.60

Time-->

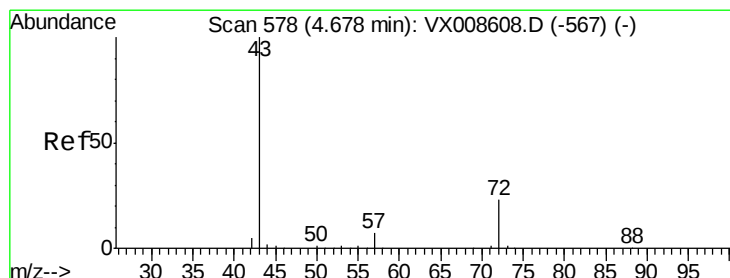
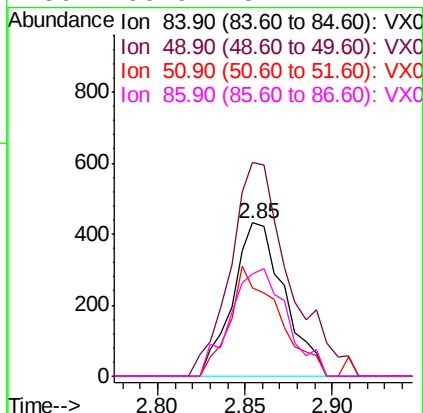
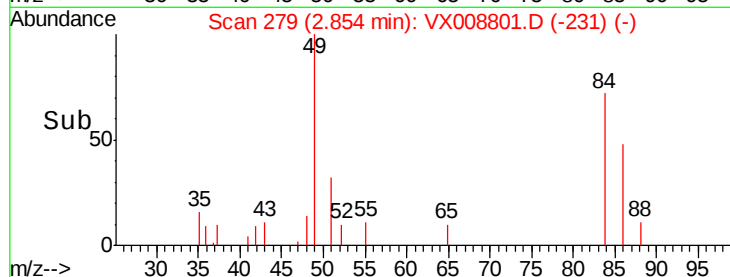
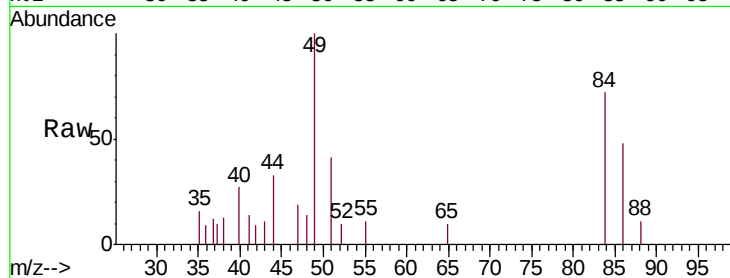




#20
Methylene Chloride
Concen: 0.312 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008801.D
Acq: 10 Apr 2019 13:36

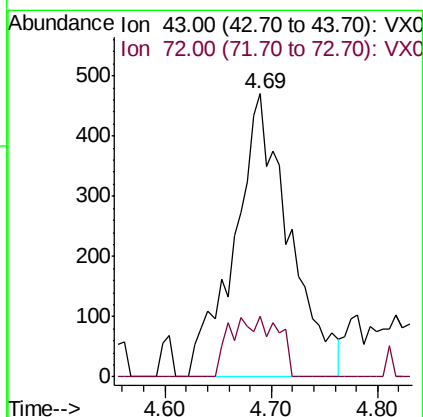
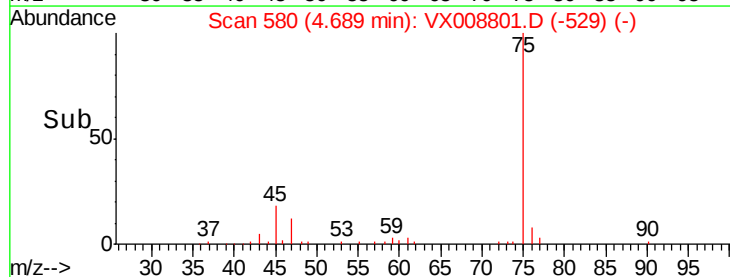
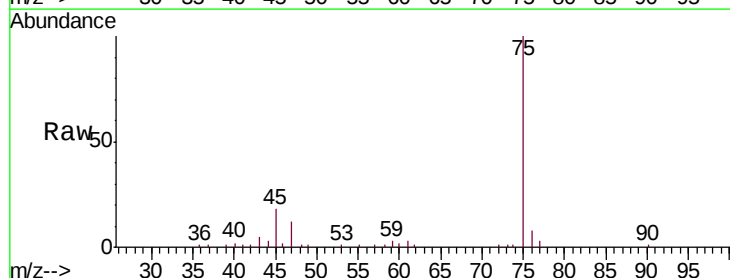
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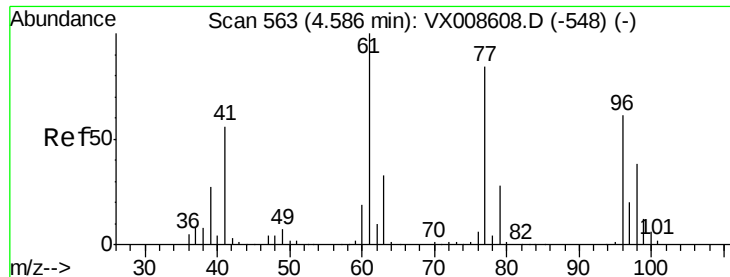
Tgt Ion: 84 Resp: 886
Ion Ratio Lower Upper
84 100
49 139.1 109.7 164.5
51 57.2 33.6 50.4#
86 66.9 51.4 77.2



#25
2-Butanone
Concen: 0.629 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.01 min
Lab File: VX008801.D
Acq: 10 Apr 2019 13:36

Tgt Ion: 43 Resp: 1685
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.4





#26

2,2-Dichloropropane

Concen: 0.366 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.10 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

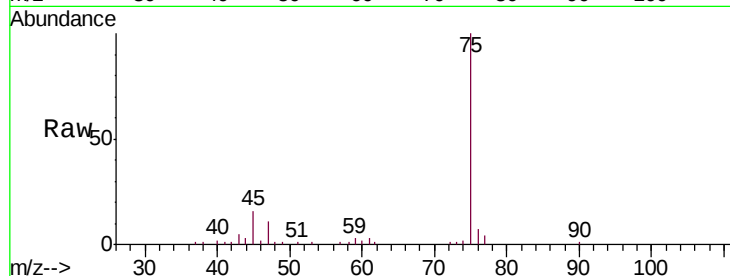
Z3-TB05-190408

Tgt Ion: 77 Resp: 1314

Ion Ratio Lower Upper

77 100

97 0.0 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.68

400

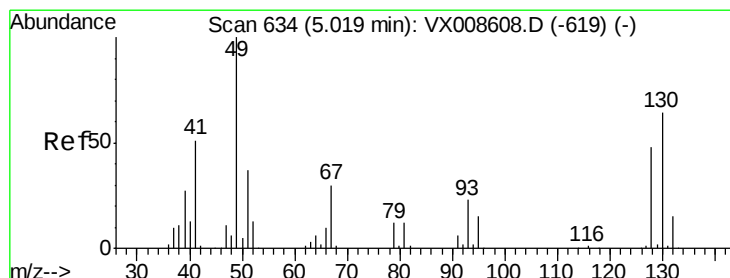
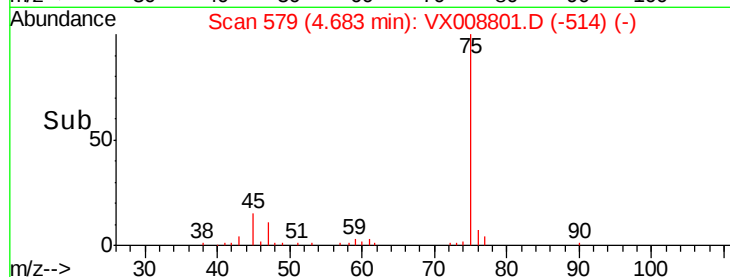
300

200

100

0

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

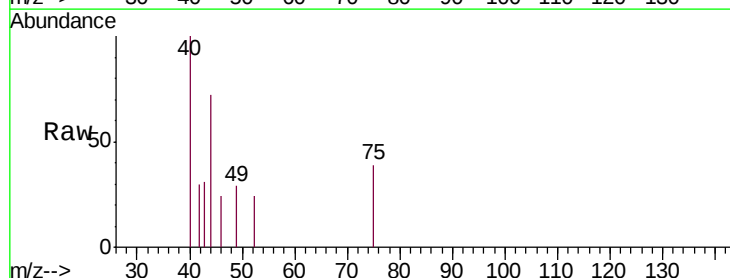
Tgt Ion: 49 Resp: 45

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 42.2 49.3 73.9#



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

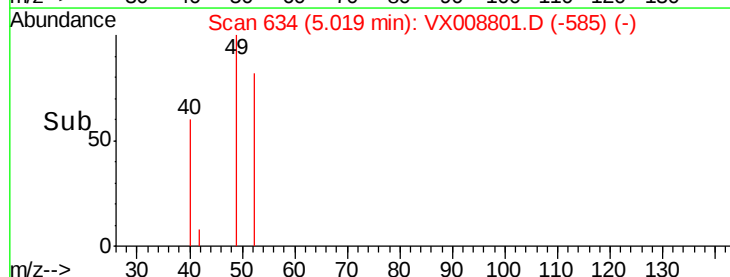
60

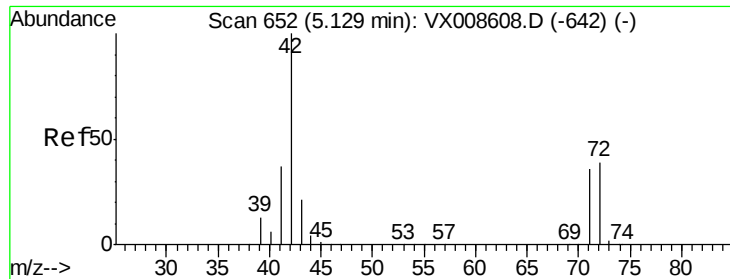
40

20

0

Time-->

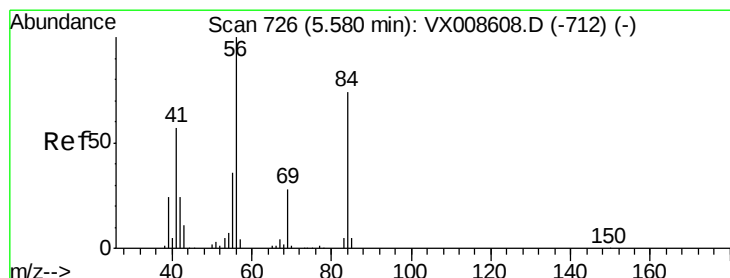
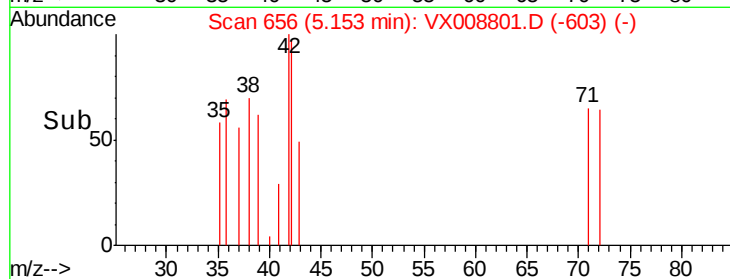
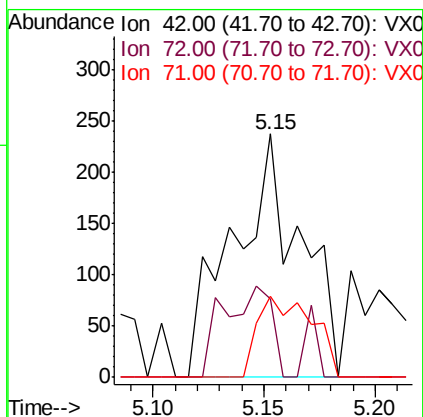
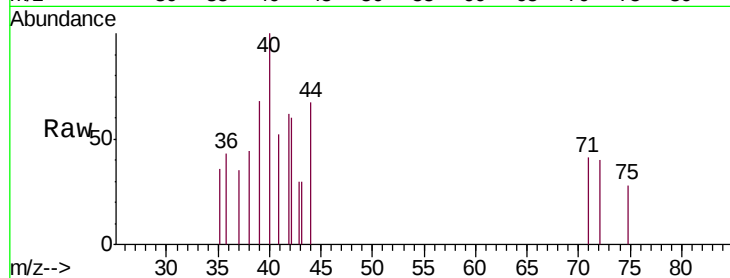




#29
Tetrahydrofuran
Concen: 0.281 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX008801.D
Acq: 10 Apr 2019 13:36

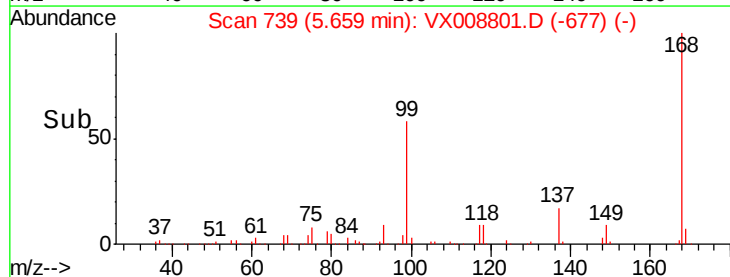
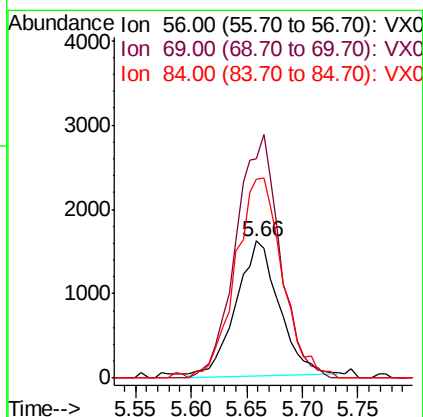
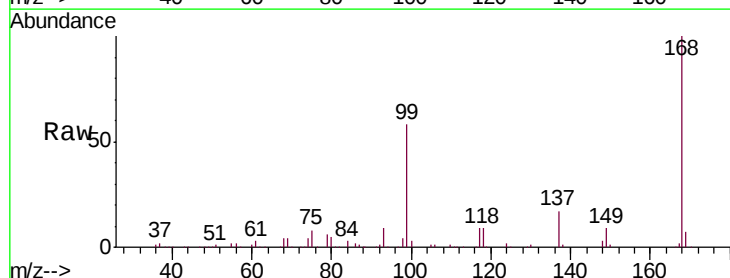
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB05-190408

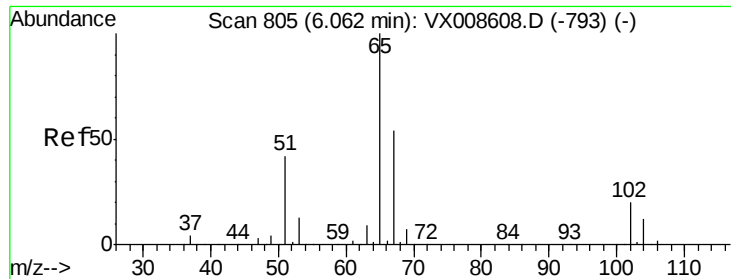
Tgt Ion: 42 Resp: 499
Ion Ratio Lower Upper
42 100
72 26.7 30.5 45.7#
71 27.3 28.6 43.0#



#31
Cyclohexane
Concen: 0.838 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008801.D
Acq: 10 Apr 2019 13:36

Tgt Ion: 56 Resp: 4261
Ion Ratio Lower Upper
56 100
69 165.5 22.6 33.8#
84 150.3 59.3 88.9#





#33

1,2-Dichloroethane-d4

Concen: 45.254 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

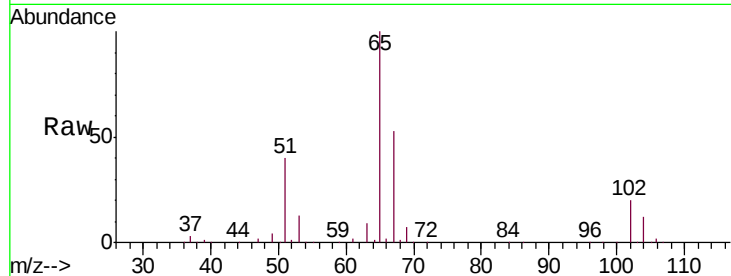
Z3-TB05-190408

Tgt Ion: 65 Resp: 133130

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX008608.D (-793) (-)

Ion 66.90 (66.60 to 67.60): VX008608.D (-793) (-)

6.06

50000

40000

30000

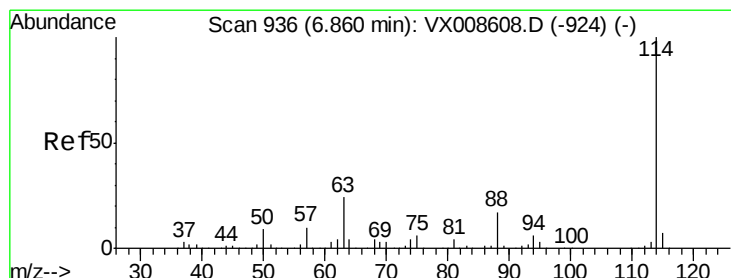
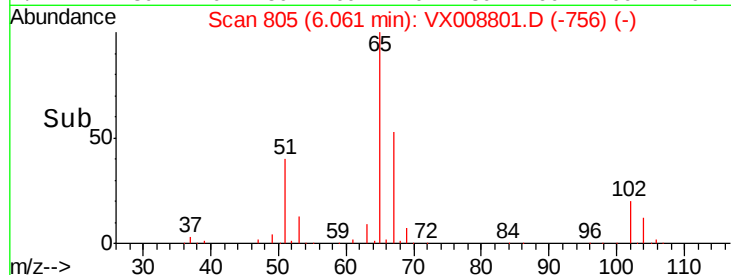
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

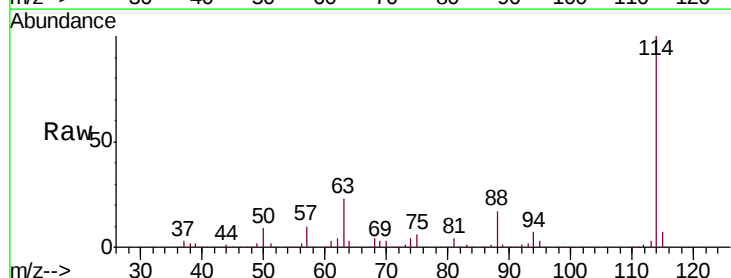
Tgt Ion: 114 Resp: 327775

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.2

88 16.7 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): VX008608.D (-924) (-)

Ion 63.00 (62.70 to 63.70): VX008608.D (-924) (-)

Ion 87.90 (87.60 to 88.60): VX008608.D (-924) (-)

6.86

150000

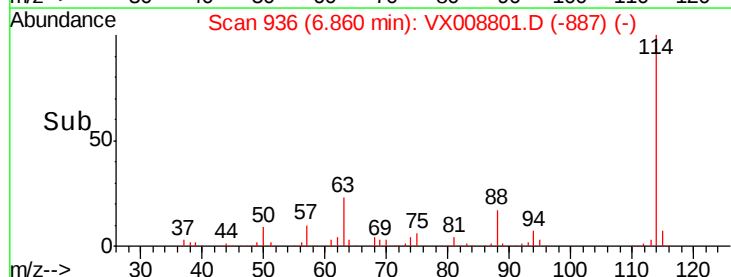
100000

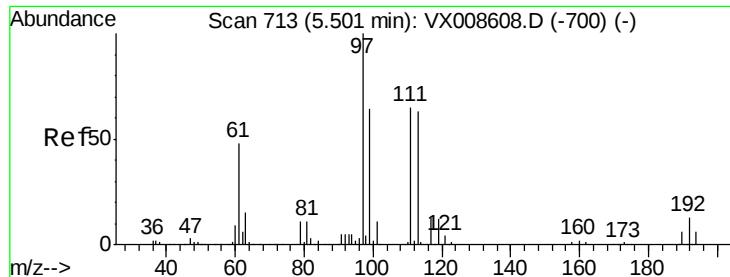
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10

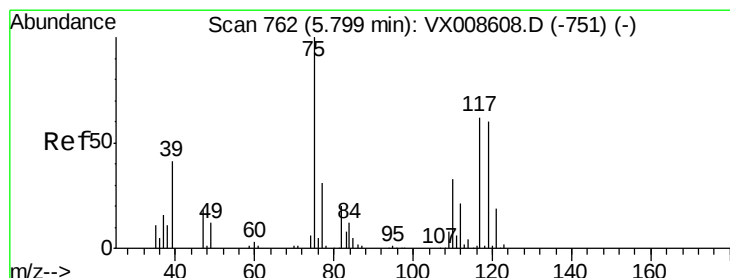
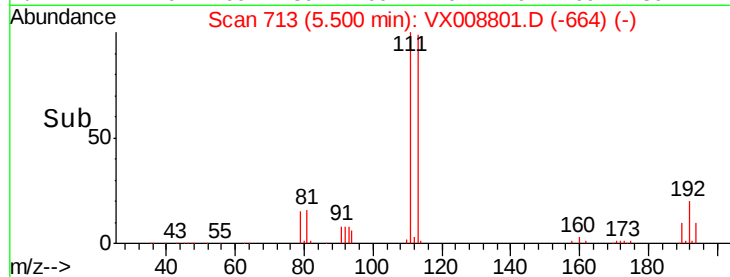
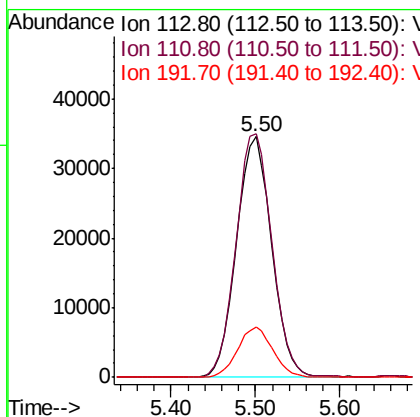
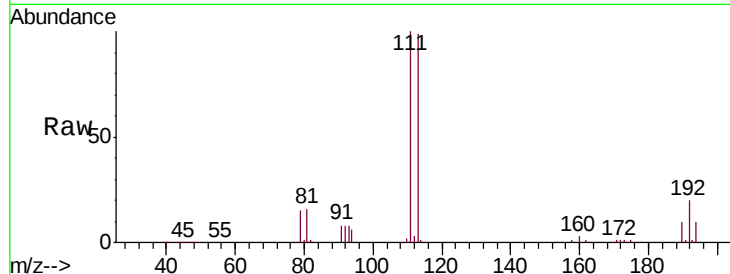




#35
 Dibromofluoromethane
 Concen: 46.709 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008801.D
 Acq: 10 Apr 2019 13:36

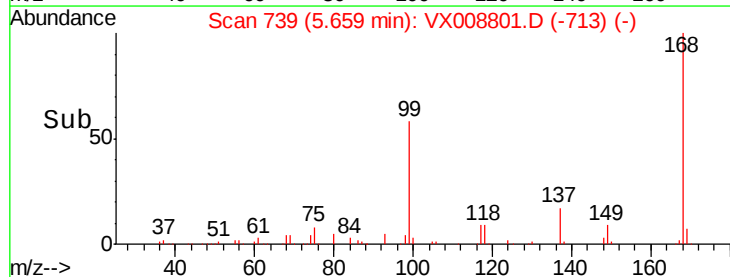
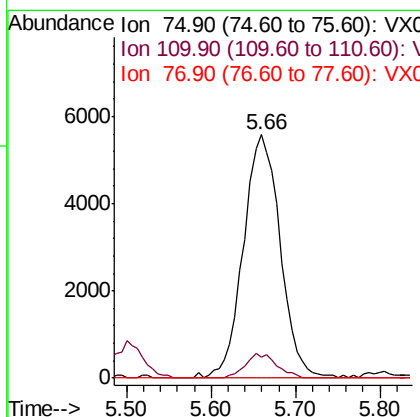
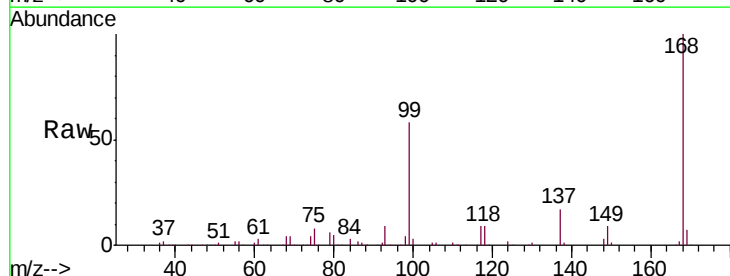
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB05-190408

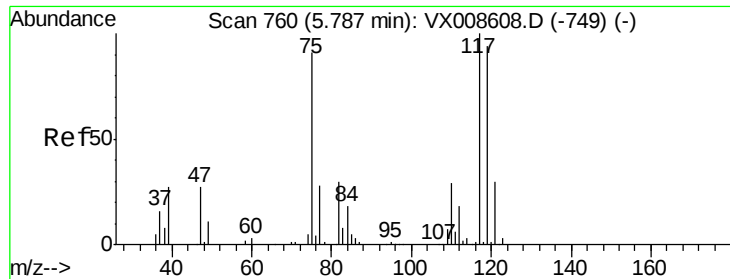
Tgt Ion:113 Resp: 97886
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.4 125.2
 192 20.8 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 4.618 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008801.D
 Acq: 10 Apr 2019 13:36

Tgt Ion: 75 Resp: 16546
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.4 49.2#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.284 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB05-190408

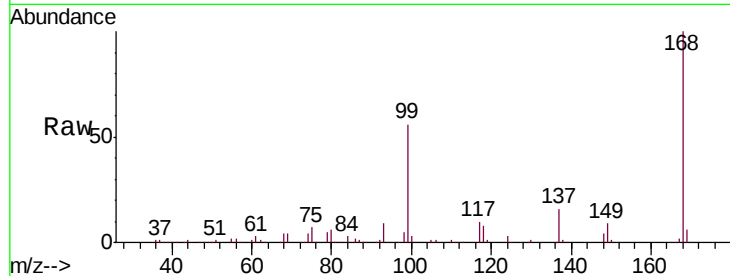
Tgt Ion:117 Resp: 18636

Ion Ratio Lower Upper

117 100

119 5.4 75.0 112.6#

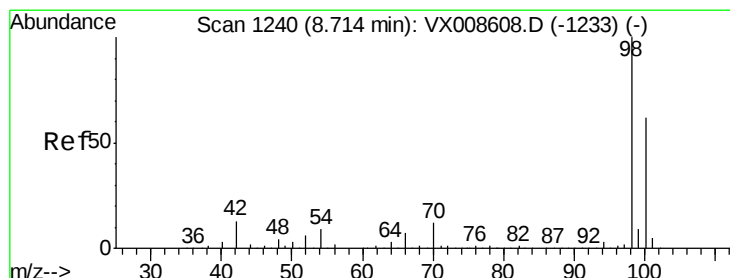
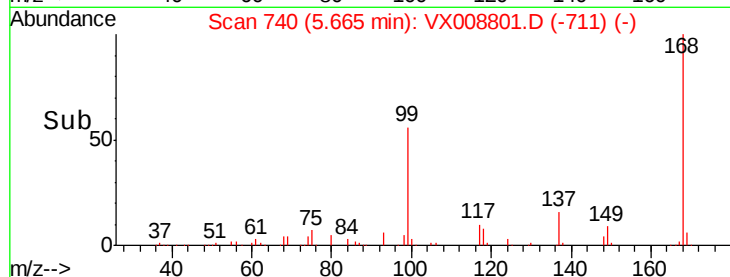
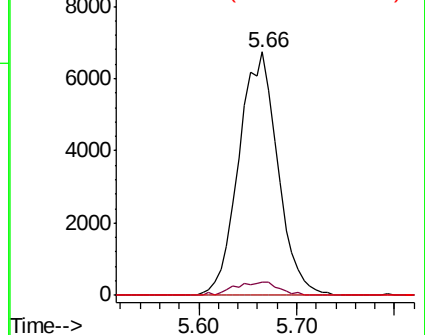
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 48.705 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008801.D

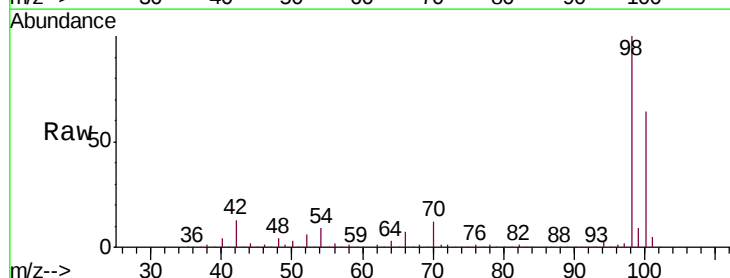
Acq: 10 Apr 2019 13:36

Tgt Ion: 98 Resp: 406411

Ion Ratio Lower Upper

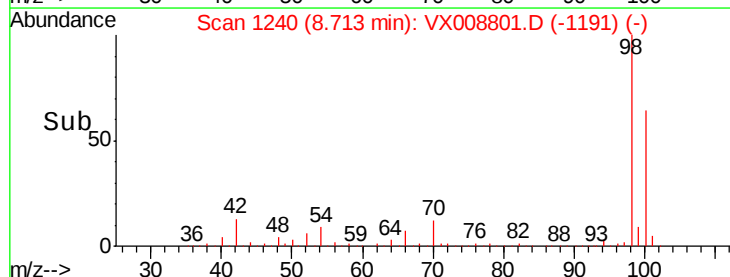
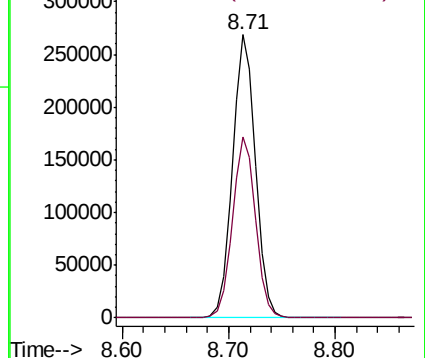
98 100

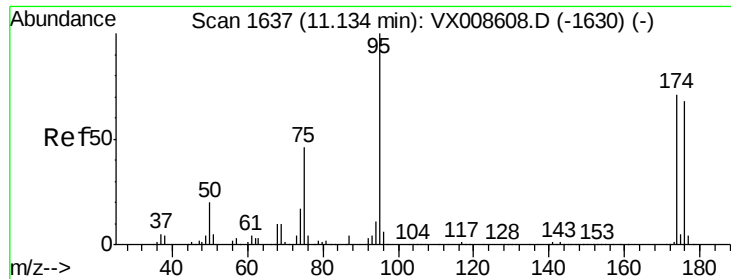
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.089 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB05-190408

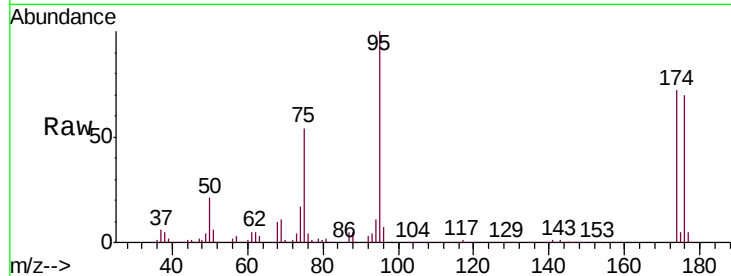
Tgt Ion: 95 Resp: 133422

Ion Ratio Lower Upper

95 100

174 78.0 0.0 151.8

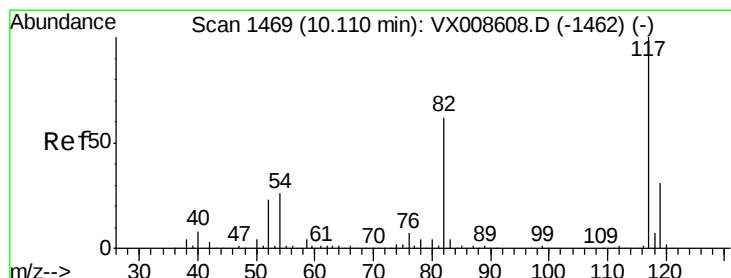
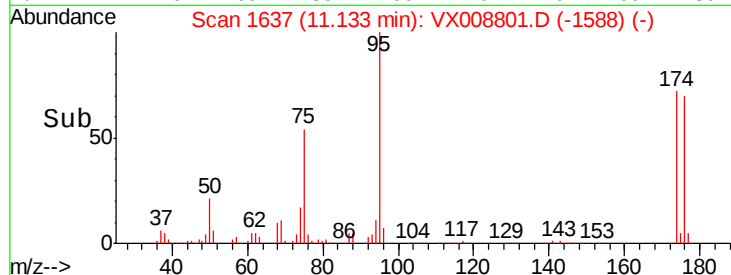
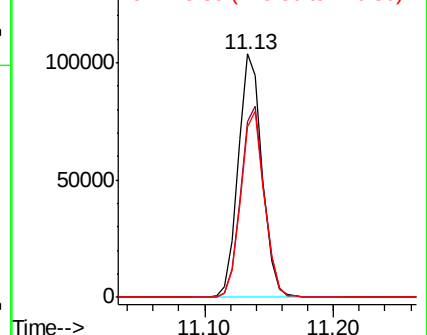
176 75.8 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008608.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008608.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008608.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

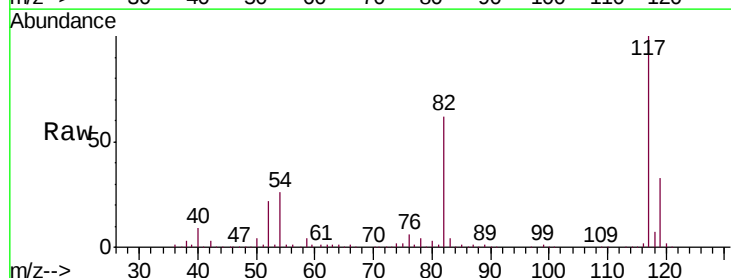
Tgt Ion: 117 Resp: 281488

Ion Ratio Lower Upper

117 100

82 62.1 49.6 74.4

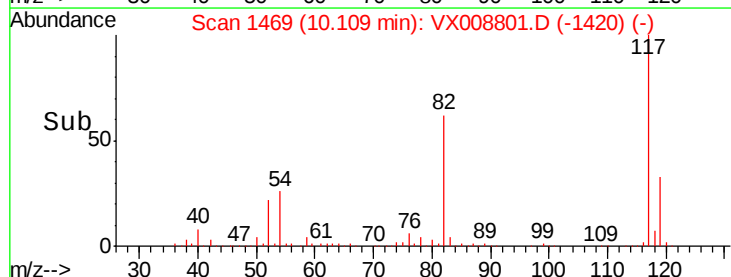
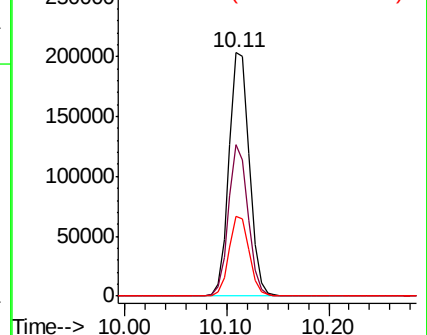
119 32.6 25.0 37.4

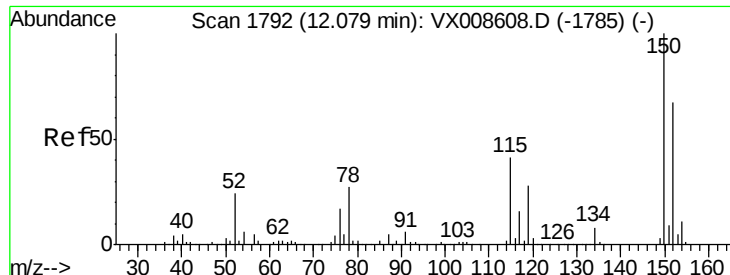


Abundance Ion 116.90 (116.60 to 117.60): VX008608.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008608.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008608.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB05-190408

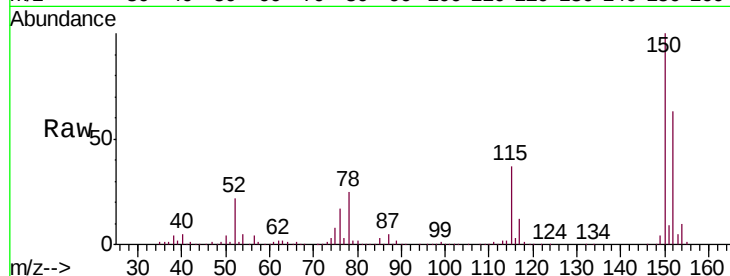
Tgt Ion:152 Resp: 114698

Ion Ratio Lower Upper

152 100

115 59.8 43.5 130.5

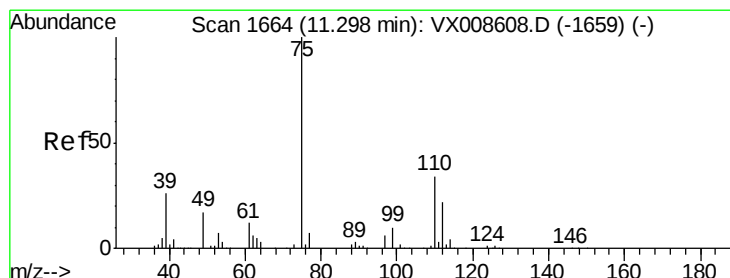
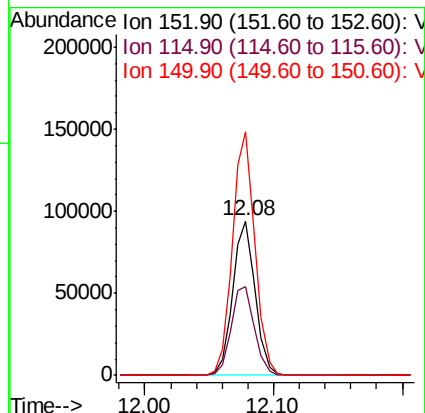
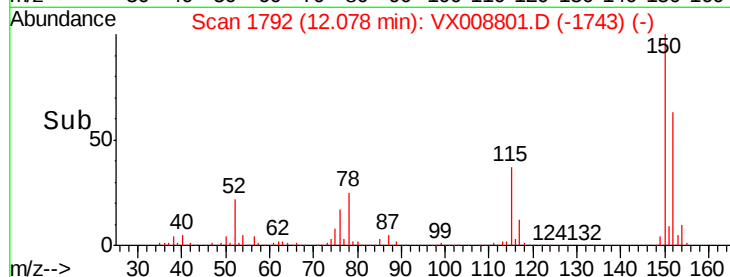
150 158.2 0.0 348.8



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: 21.785 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.17 min

Lab File: VX008801.D

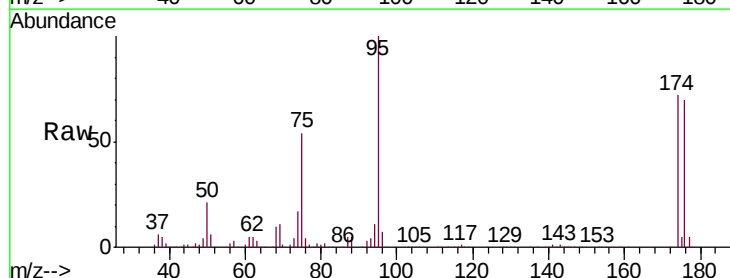
Acq: 10 Apr 2019 13:36

Tgt Ion: 75 Resp: 68640

Ion Ratio Lower Upper

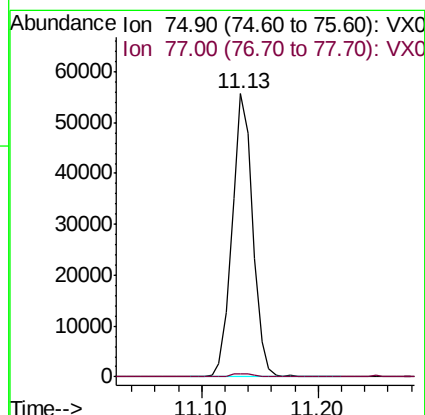
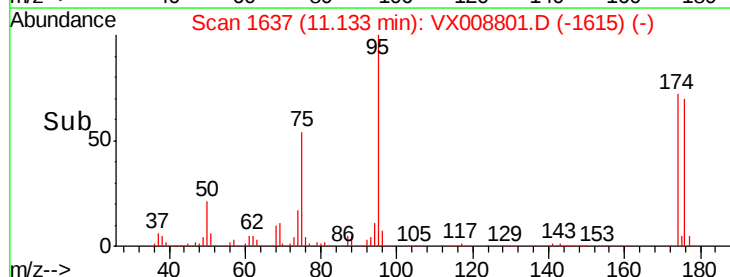
75 100

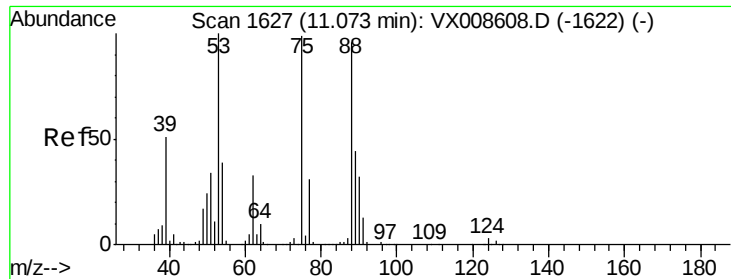
77 1.3 22.3 66.8#



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: 60.050 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008801.D

Acq: 10 Apr 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB05-190408

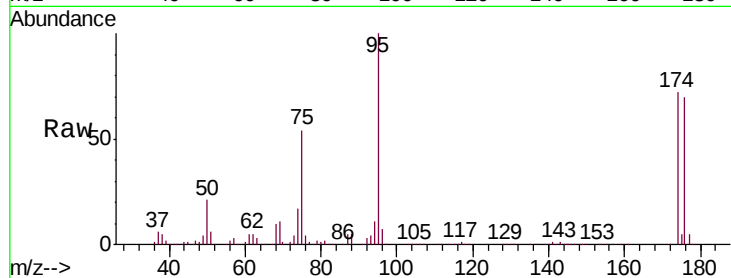
Tgt Ion: 75 Resp: 68640

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



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

