

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009014.D
 Acq On : 17 Apr 2019 15:00
 Operator : JC/SP
 Sample : K2448-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB09-190415

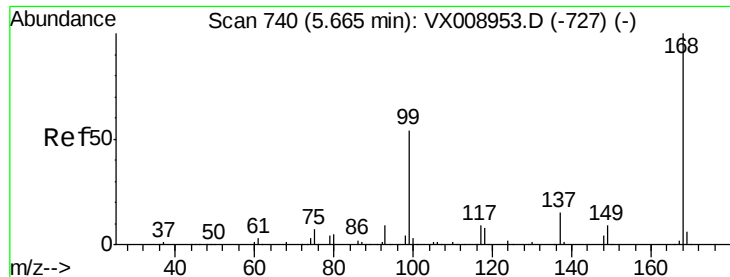
Quant Time: Apr 18 01:37:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	412681	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	353507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	149104	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	167378	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
35) Dibromofluoromethane	5.50	113	122931	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
50) Toluene-d8	8.71	98	510506	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
62) 4-Bromofluorobenzene	11.13	95	168205	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	403	4.016	ug/l #	49
10) Methyl Iodide	2.51	142	613	4.607	ug/l	95
11) Tert butyl alcohol	3.02	59	7884	9.771	ug/l #	78
13) Acrolein	2.29	56	259	0.371	ug/l #	47
15) Acrylonitrile	3.15	53	666	0.325	ug/l #	81
16) Acetone	2.44	43	3326	1.764	ug/l	98
17) Carbon Disulfide	2.57	76	1542	1.438	ug/l #	85
20) Methylene Chloride	2.86	84	1274	0.395	ug/l #	82
25) 2-Butanone	4.70	43	1334	0.443	ug/l	95
28) Bromochloromethane	5.01	49	190	Below Cal	#	36
29) Tetrahydrofuran	5.17	42	818	0.406	ug/l #	46
31) Cyclohexane	5.67	56	5397	0.932	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20251	4.745	ug/l #	50
38) Carbon Tetrachloride	5.66	117	24547	6.784	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	84591	23.234	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	84591	59.648	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

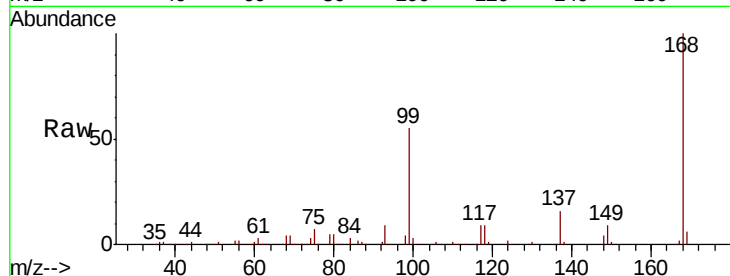
Z3-TB09-190415

Tot Ion:168 Resp: 257946

Ion Ratio Lower Upper

168 100

99 55.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

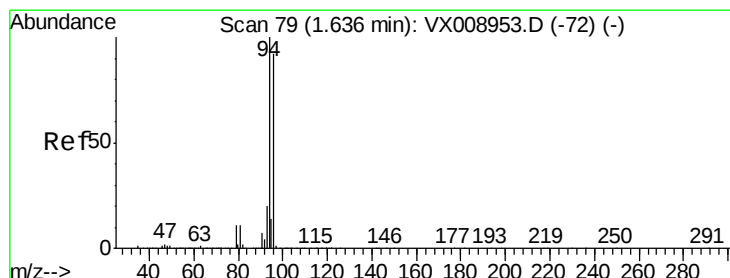
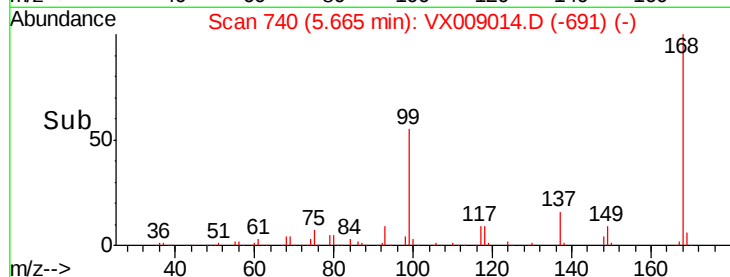
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.016 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009014.D

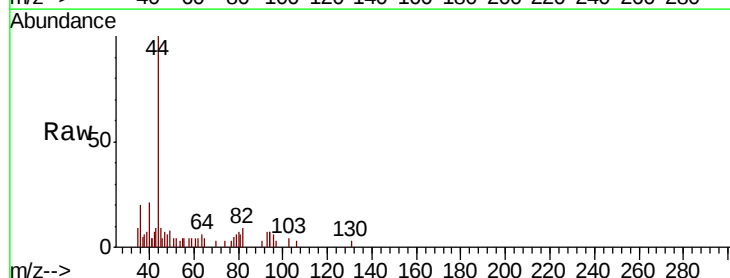
Acq: 17 Apr 2019 15:00

Tgt Ion: 94 Resp: 403

Ion Ratio Lower Upper

94 100

96 43.3 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

150

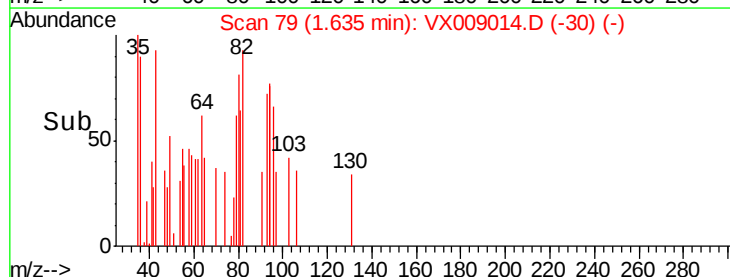
100

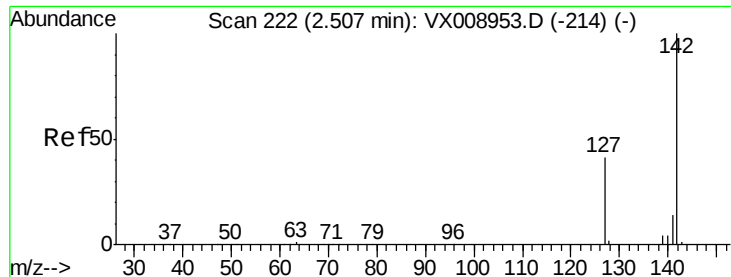
50

0

Time-->

1.62 1.64 1.66 1.68

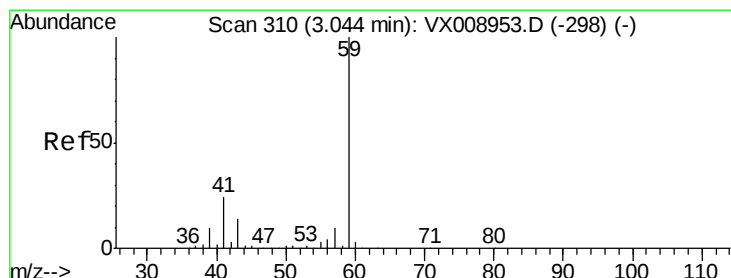
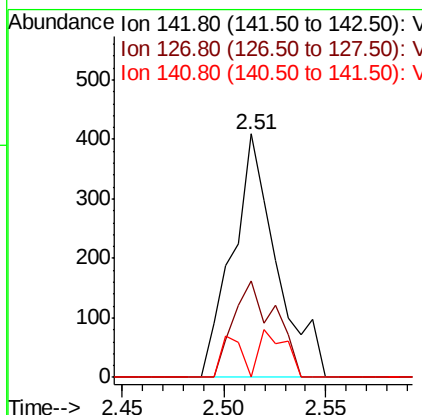
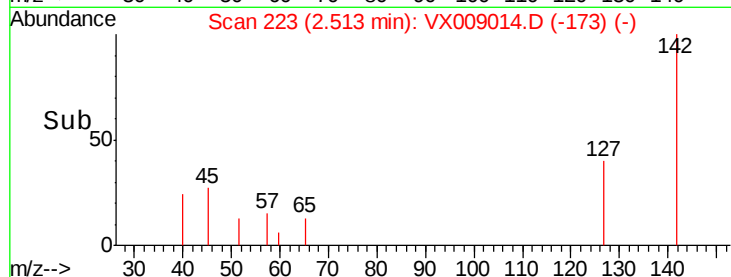
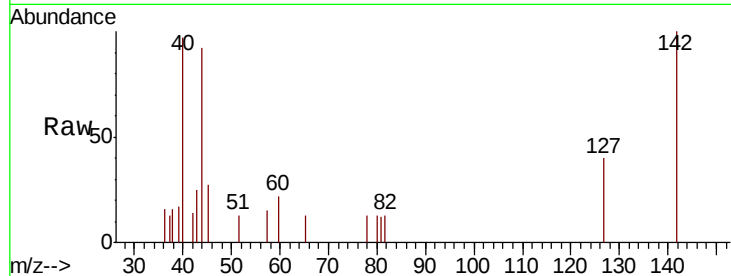




#10
Methvl Iodide
Concen: 4.607 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009014.D
Acq: 17 Apr 2019 15:00

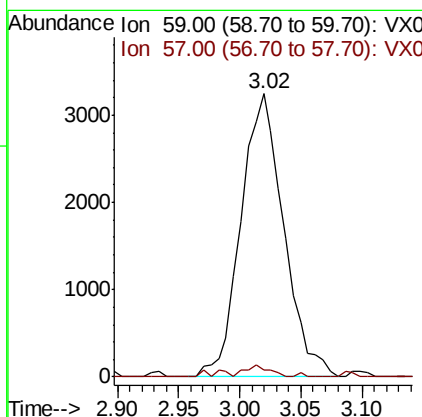
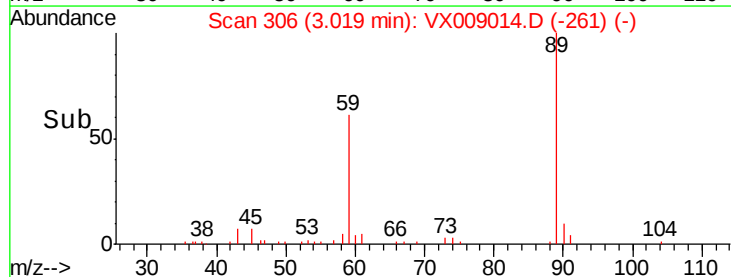
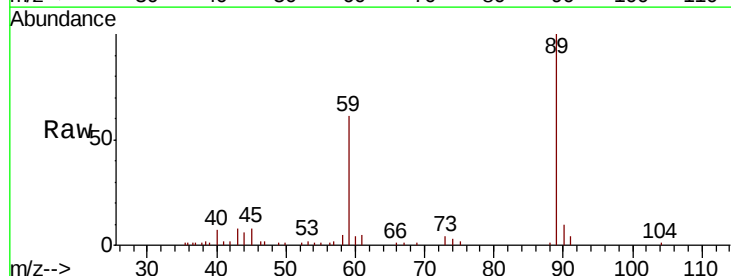
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB09-190415

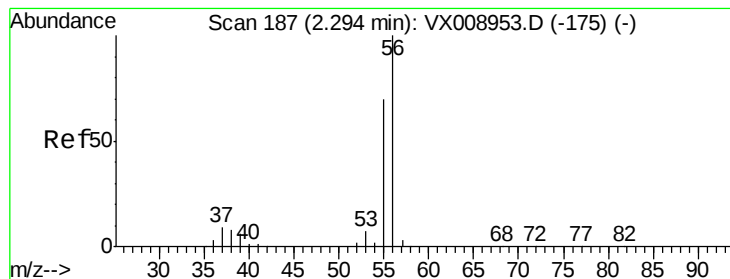
Tot Ion:142 Resp: 613
Ion Ratio Lower Upper
142 100
127 37.8 32.8 49.2
141 11.9 11.4 17.2



#11
Tert butyl alcohol
Concen: 9.771 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009014.D
Acq: 17 Apr 2019 15:00

Tgt Ion: 59 Resp: 7884
Ion Ratio Lower Upper
59 100
57 2.4 8.4 12.6#





#13

Acrolein

Concen: 0.371 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

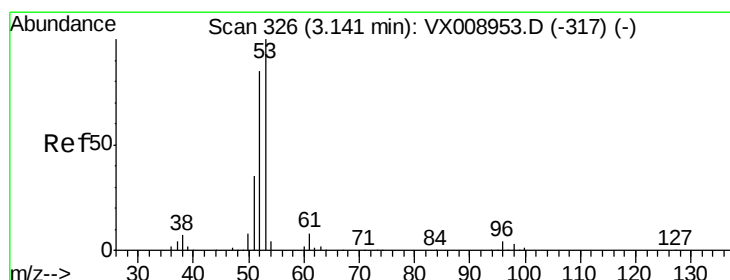
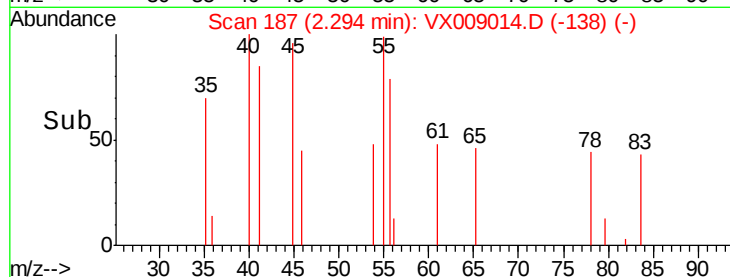
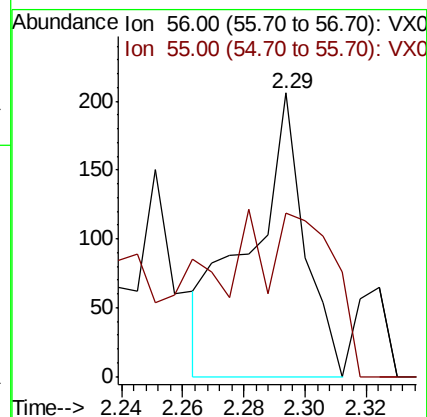
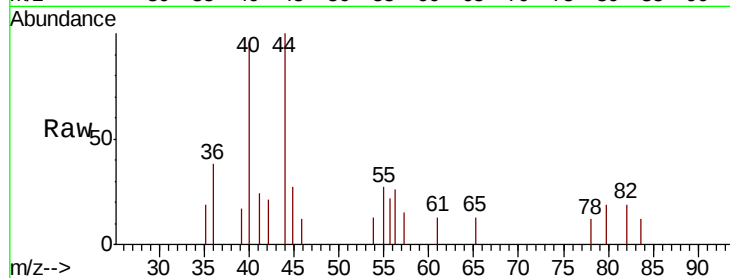
Z3-TB09-190415

Tot Ion: 56 Resp: 259

Ion Ratio Lower Upper

56 100

55 114.3 56.6 84.8#



#15

Acrylonitrile

Concen: 0.325 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

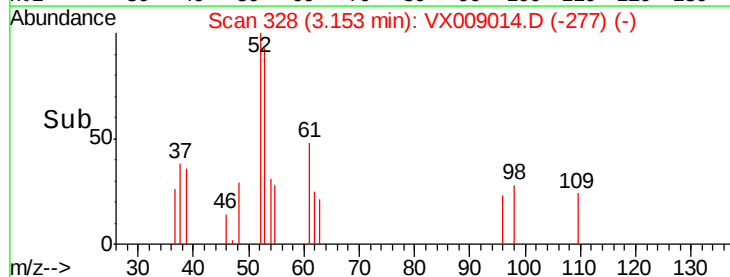
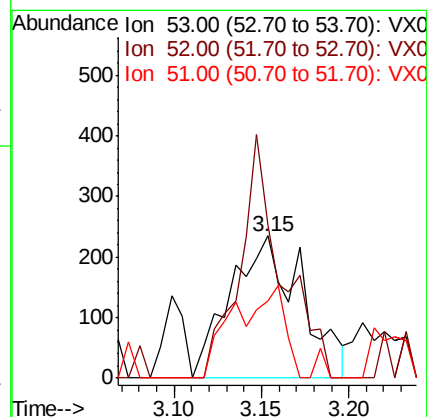
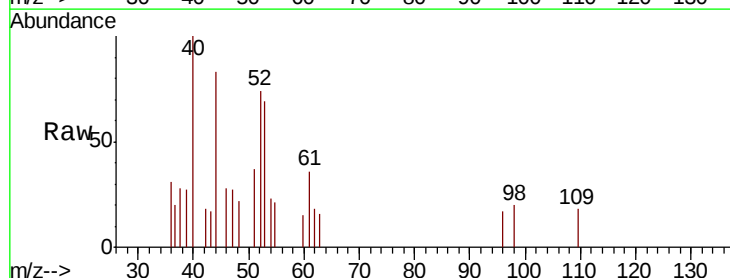
Tgt Ion: 53 Resp: 666

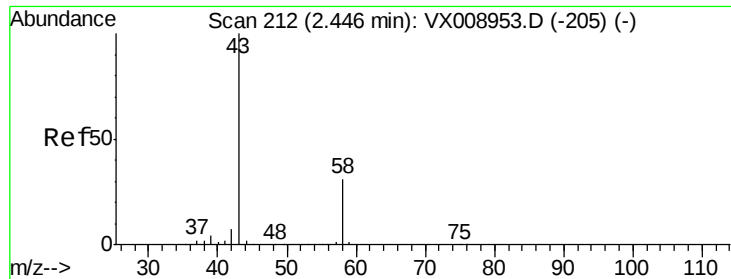
Ion Ratio Lower Upper

53 100

52 100.5 66.6 100.0#

51 25.2 28.3 42.5#





#16

Acetone

Concen: 1.764 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

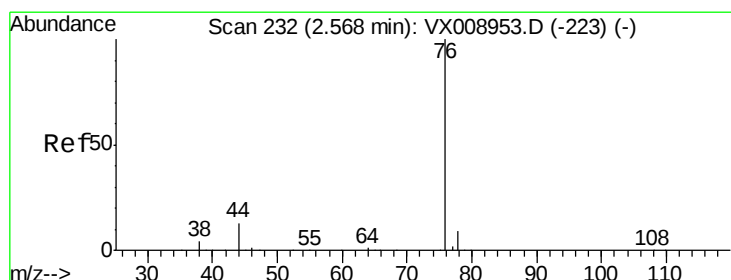
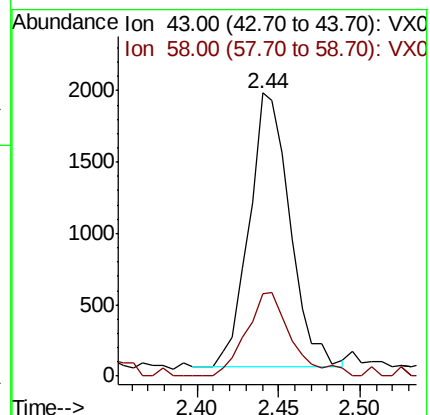
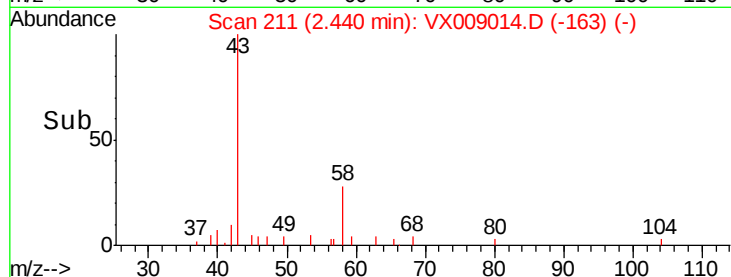
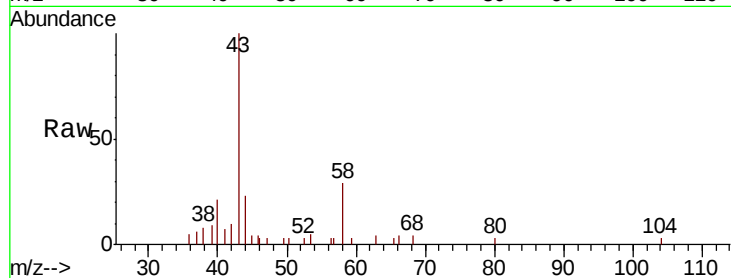
Z3-TB09-190415

Tot Ion: 43 Resp: 3326

Ion Ratio Lower Upper

43 100

58 30.1 24.8 37.2



#17

Carbon Disulfide

Concen: 1.438 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009014.D

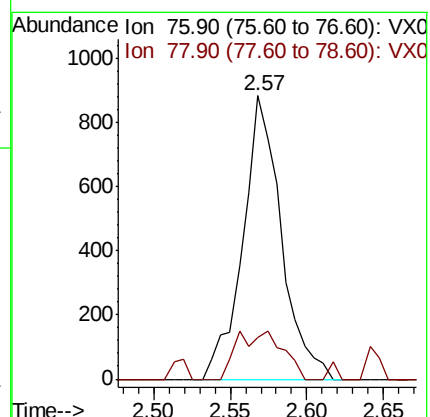
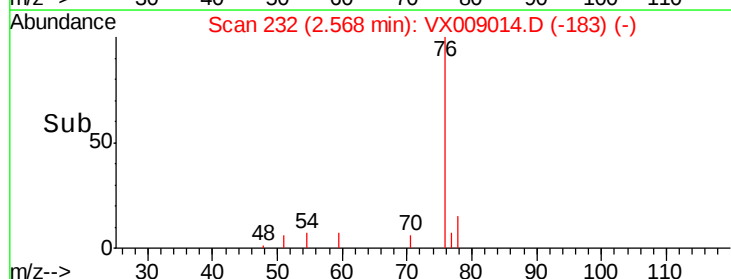
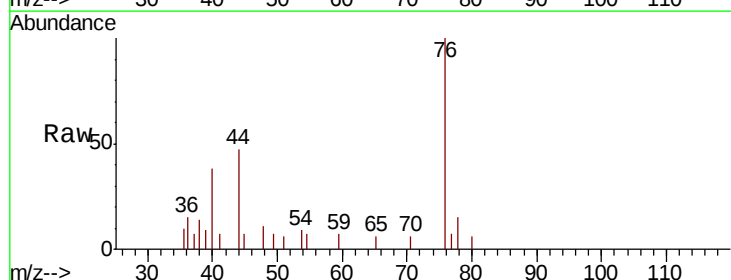
Acq: 17 Apr 2019 15:00

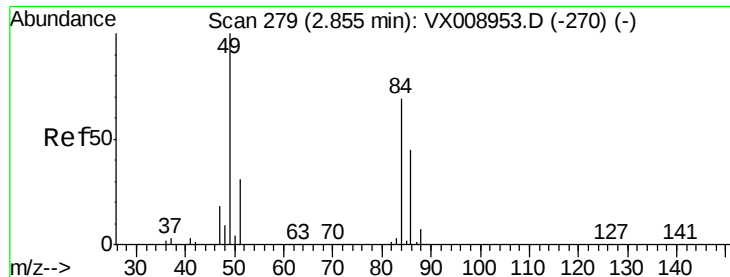
Tgt Ion: 76 Resp: 1542

Ion Ratio Lower Upper

76 100

78 14.5 7.2 10.8#





#20

Methylene Chloride

Concen: 0.395 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB09-190415

Tot Ion: 84 Resp: 1274

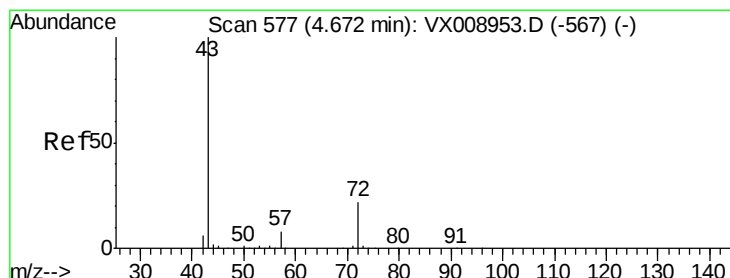
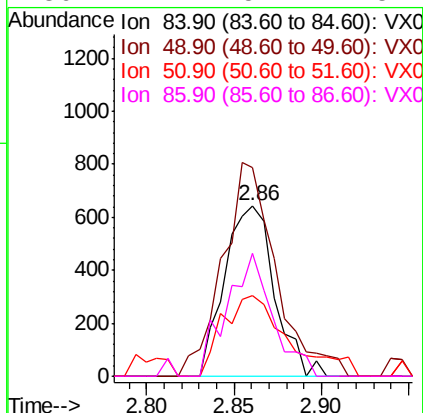
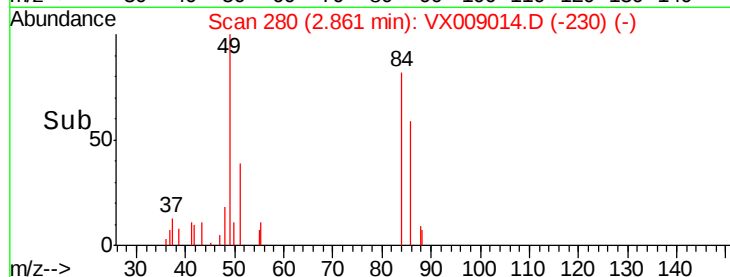
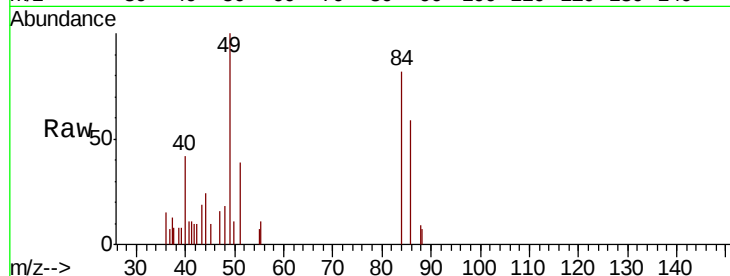
Ion Ratio Lower Upper

84 100

49 112.1 115.4 173.0#

51 47.4 35.8 53.6

86 72.2 52.1 78.1



#25

2-Butanone

Concen: 0.443 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009014.D

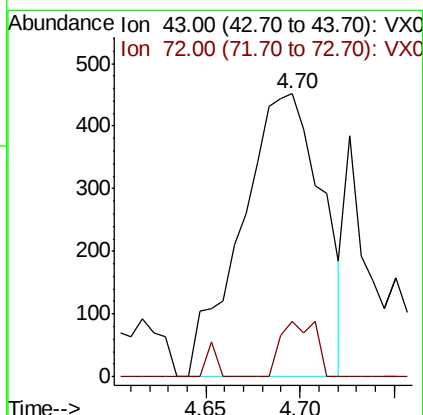
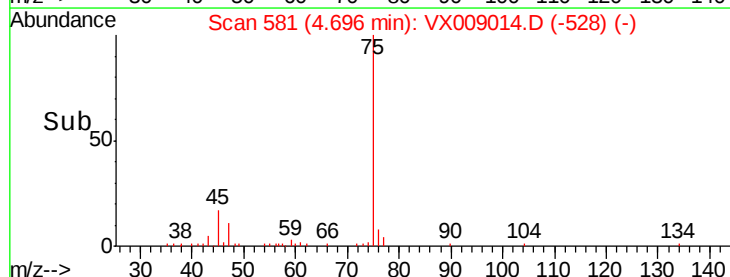
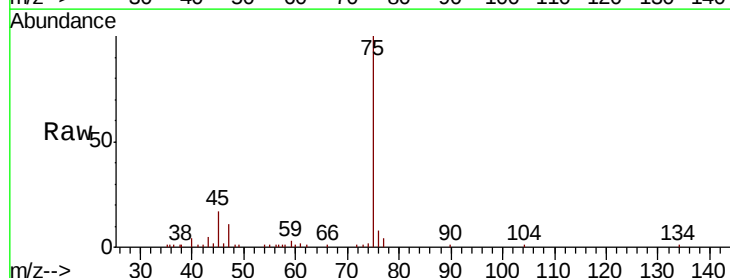
Acq: 17 Apr 2019 15:00

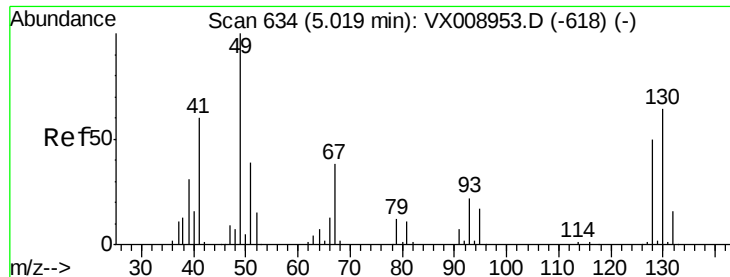
Tgt Ion: 43 Resp: 1334

Ion Ratio Lower Upper

43 100

72 19.5 17.5 26.3





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB09-190415

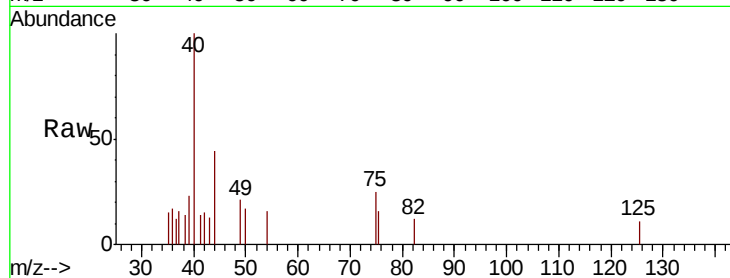
Tot Ion: 49 Resp: 190

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

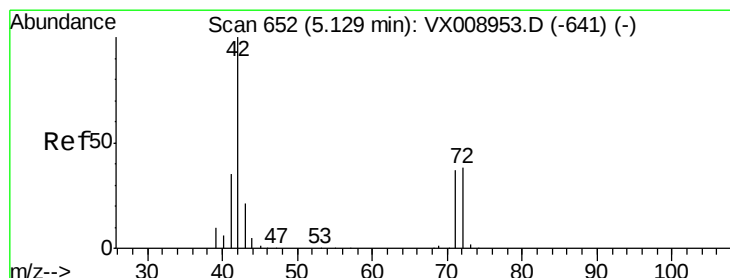
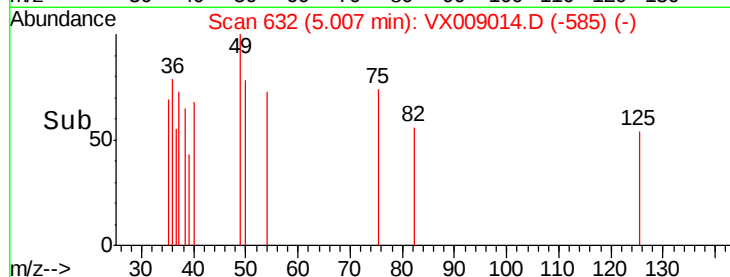
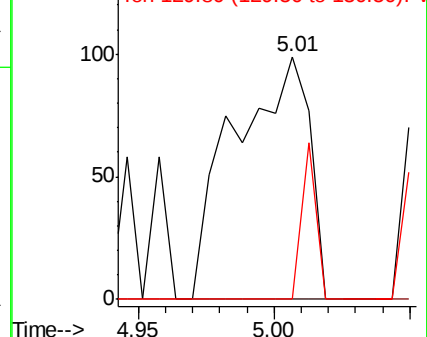
130 12.1 50.4 75.6#



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



#29

Tetrahydrofuran

Concen: 0.406 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.04 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

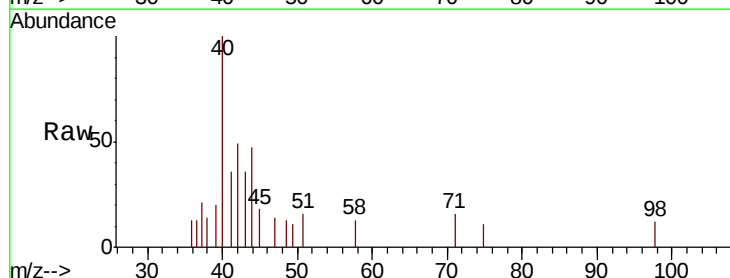
Tgt Ion: 42 Resp: 818

Ion Ratio Lower Upper

42 100

72 0.0 30.6 45.8#

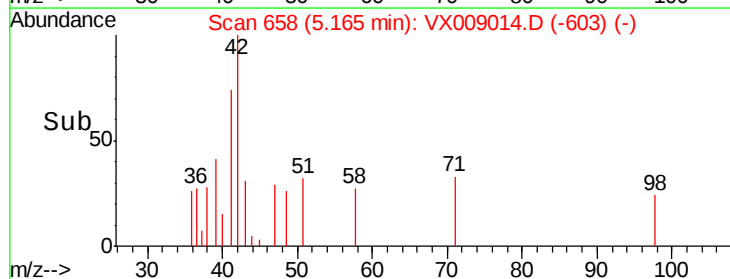
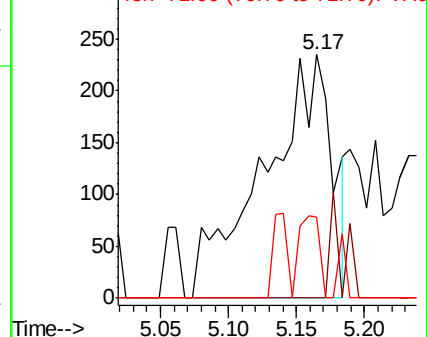
71 10.1 28.8 43.2#

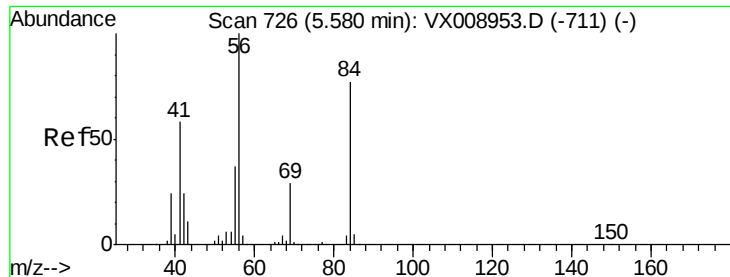


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

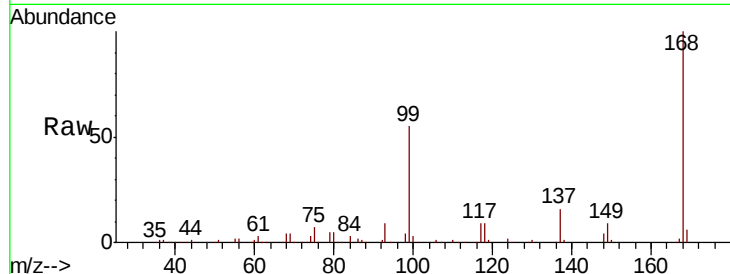




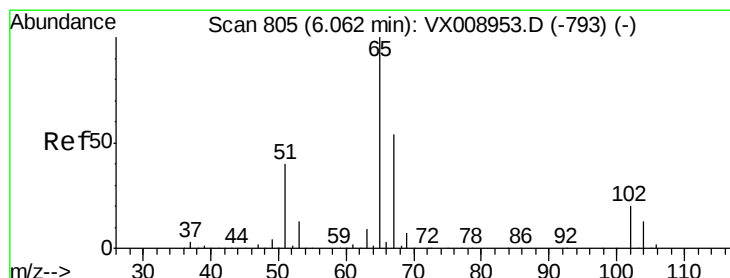
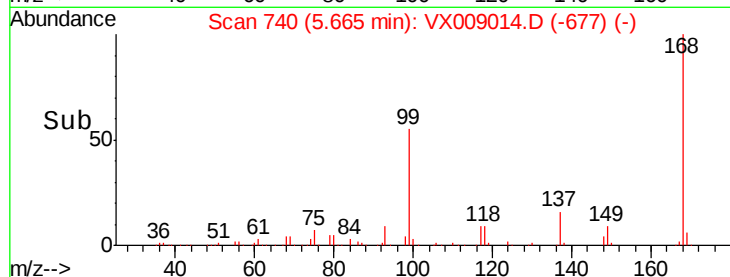
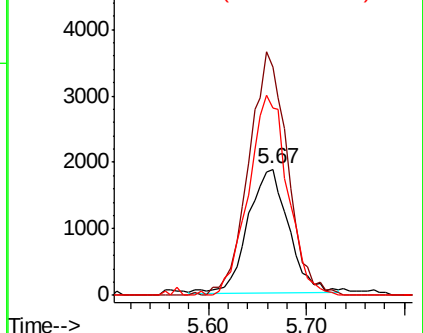
#31
Cyclohexane
Concen: 0.932 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009014.D
Acq: 17 Apr 2019 15:00

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB09-190415

Tot Ion: 56 Resp: 5397
Ion Ratio Lower Upper
56 100
69 186.0 23.3 34.9#
84 152.8 61.7 92.5#

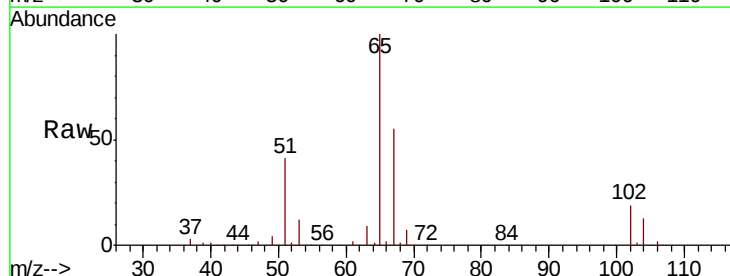


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

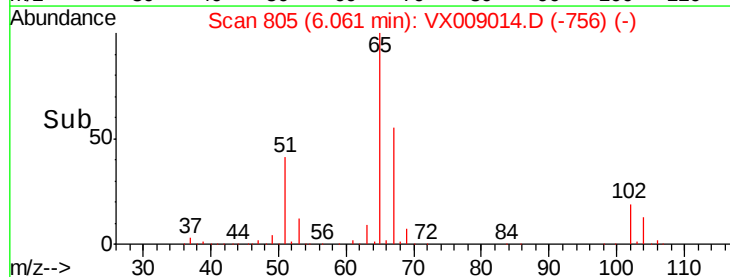
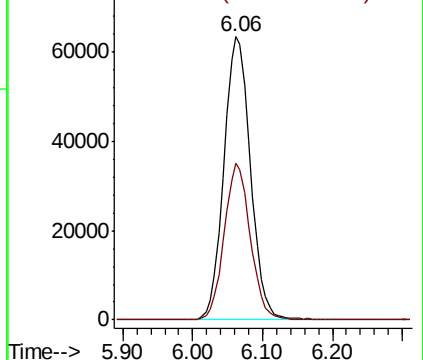


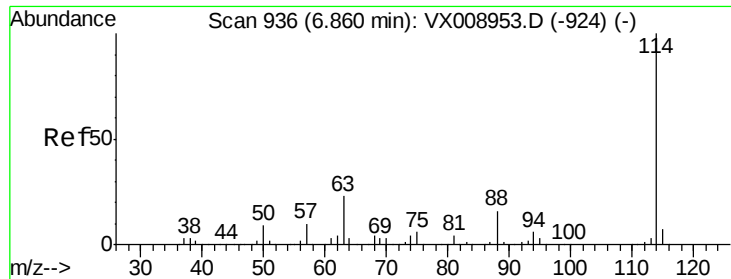
#33
1,2-Dichloroethane-d4
Concen: 46.044 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009014.D
Acq: 17 Apr 2019 15:00

Tgt Ion: 65 Resp: 167378
Ion Ratio Lower Upper
65 100
67 54.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

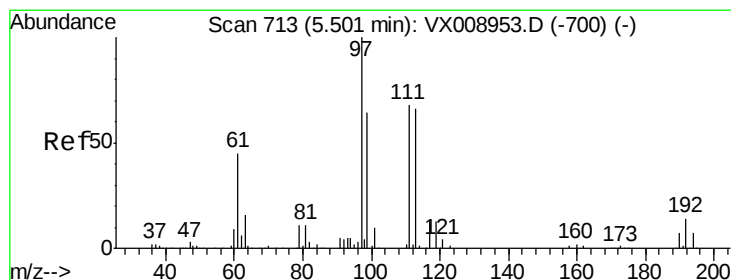
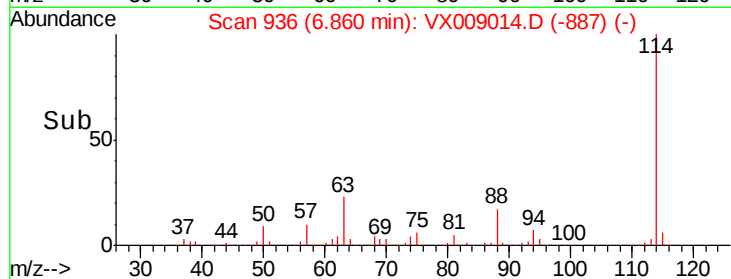
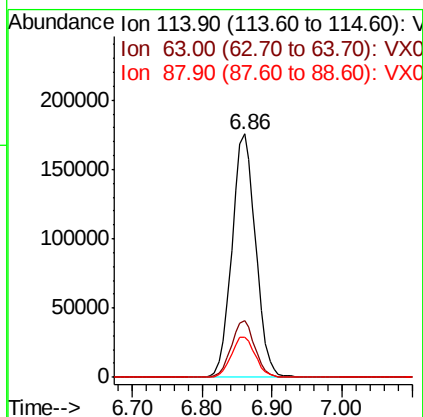
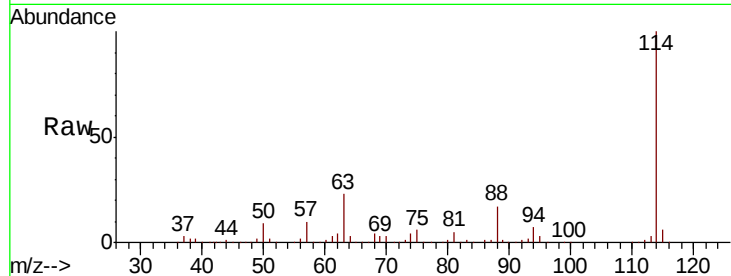




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009014.D
 Acq: 17 Apr 2019 15:00

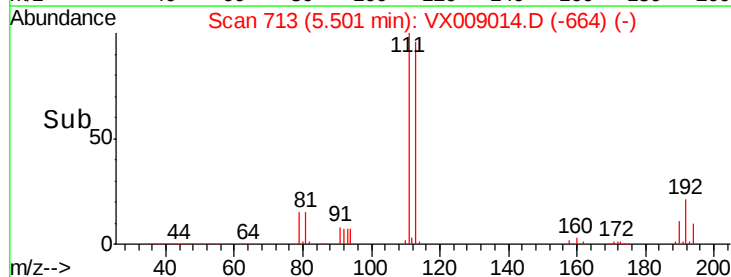
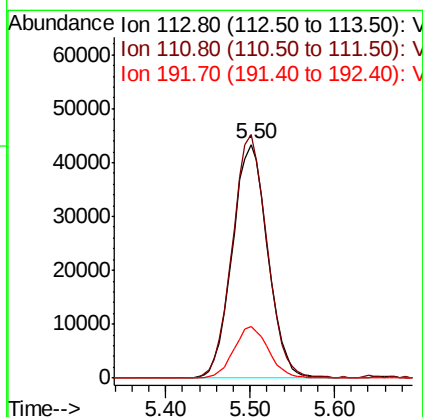
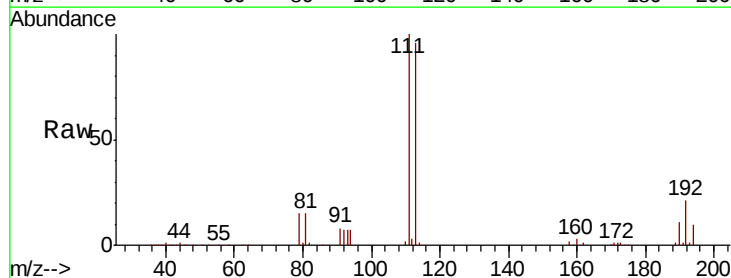
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB09-190415

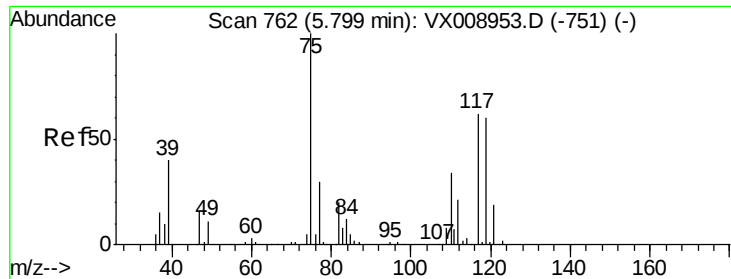
Tot Ion:114 Resp: 412681
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.0
 88 16.7 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 46.416 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009014.D
 Acq: 17 Apr 2019 15:00

Tgt Ion:113 Resp: 122931
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 21.6 17.4 26.0

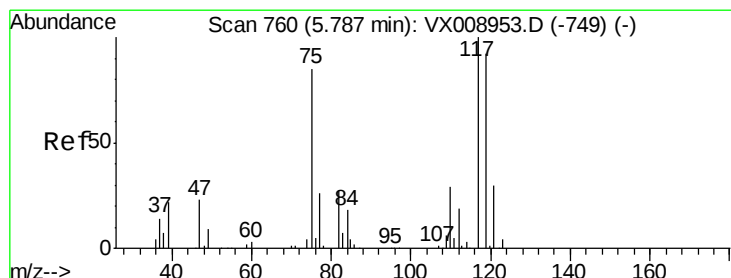
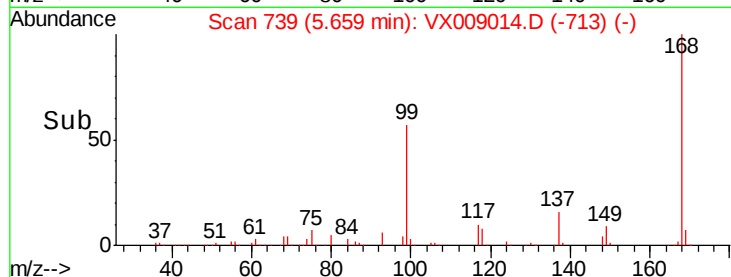
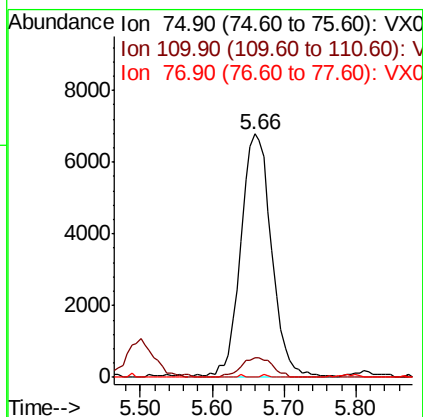
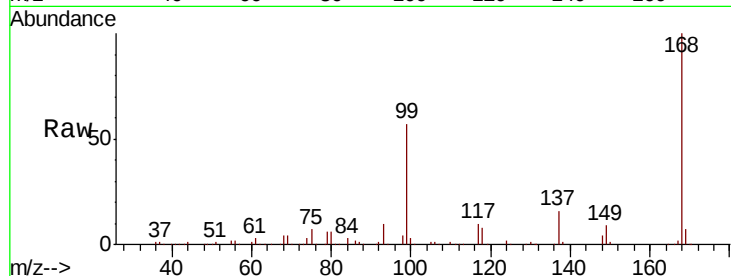




#36
 1,1-Dichloropropene
 Concen: 4.745 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009014.D
 Acq: 17 Apr 2019 15:00

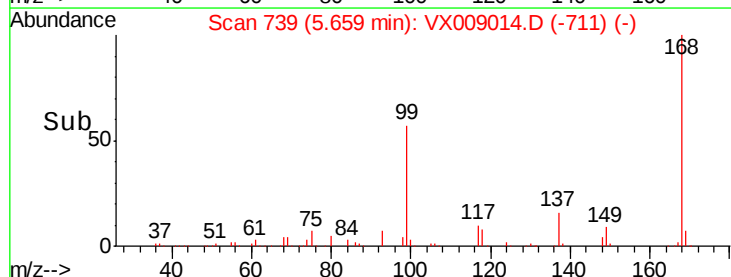
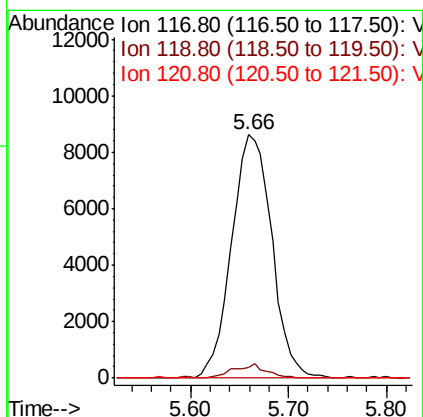
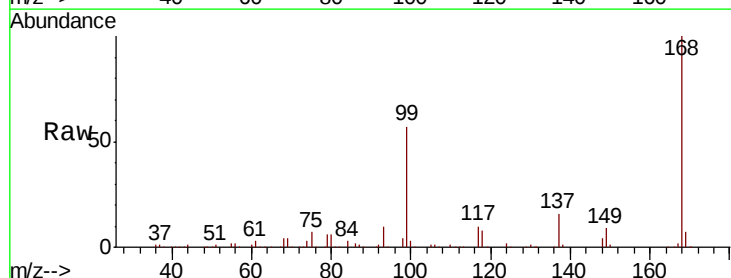
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB09-190415

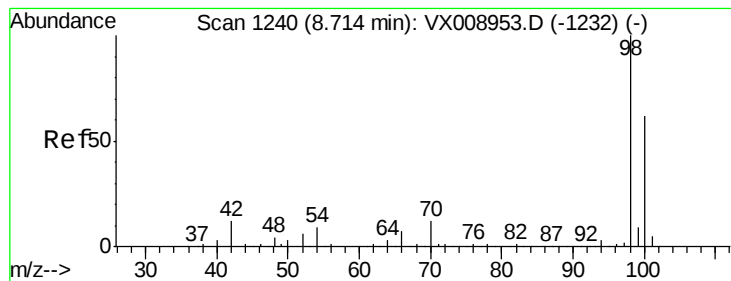
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.9	50.7#
77	0.3	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.784 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009014.D
 Acq: 17 Apr 2019 15:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	73.8	110.8#
121	0.0	23.6	35.4#





#50

Toluene-d8

Concen: 48.333 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

Instrument :

MSVOA_X

ClientSampleId :

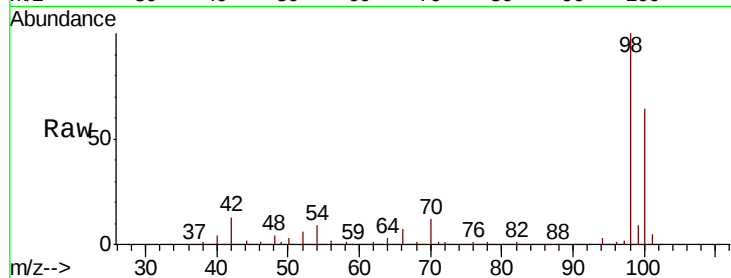
Z3-TB09-190415

Tot Ion: 98 Resp: 510506

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

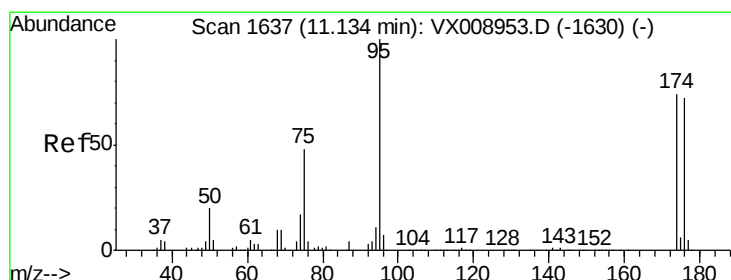
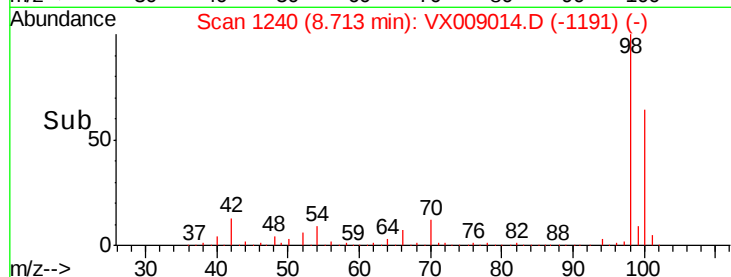
200000

100000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 45.113 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009014.D

Acq: 17 Apr 2019 15:00

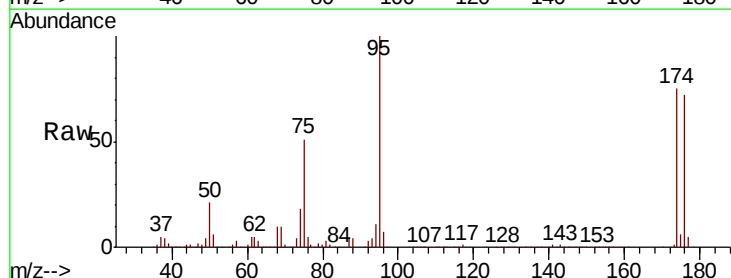
Tgt Ion: 95 Resp: 168205

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.6

176 77.1 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

150000

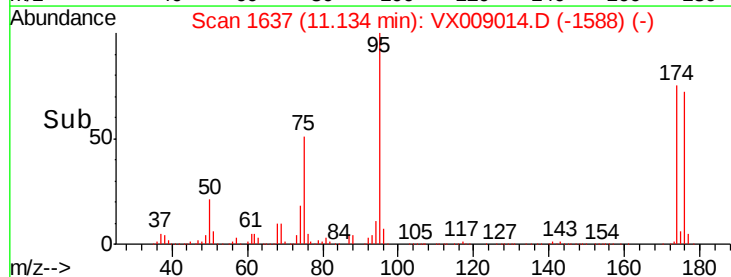
100000

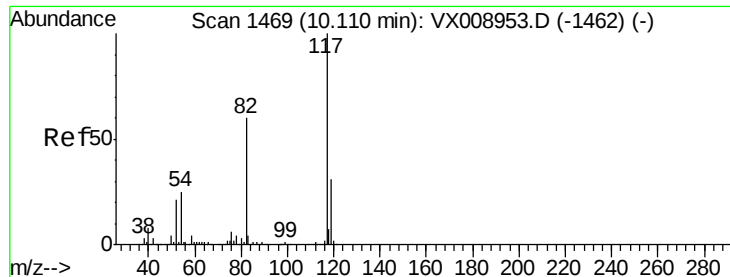
50000

0

Time-->

11.10 11.20

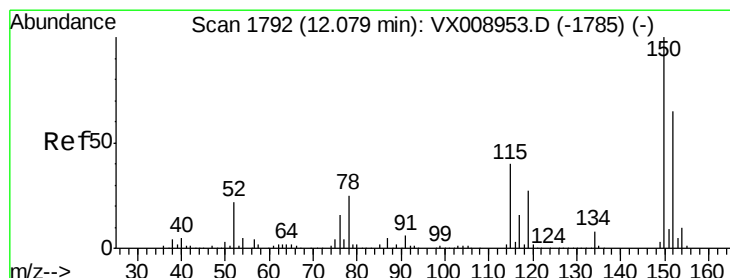
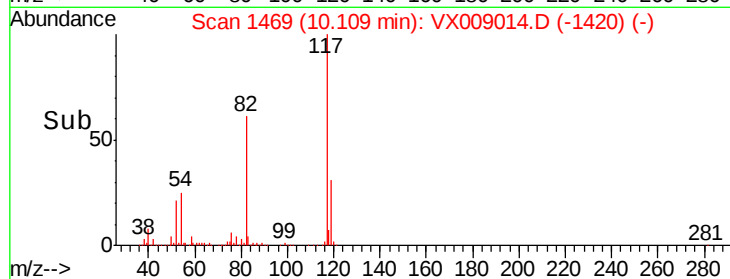
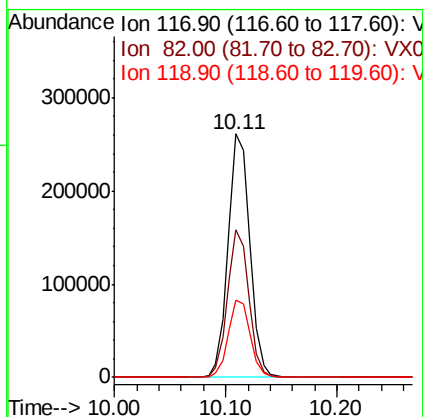
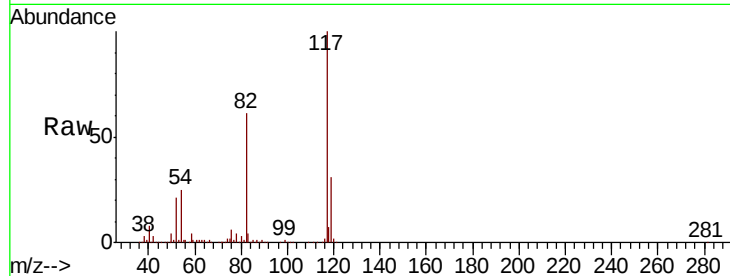




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009014.D
Acq: 17 Apr 2019 15:00

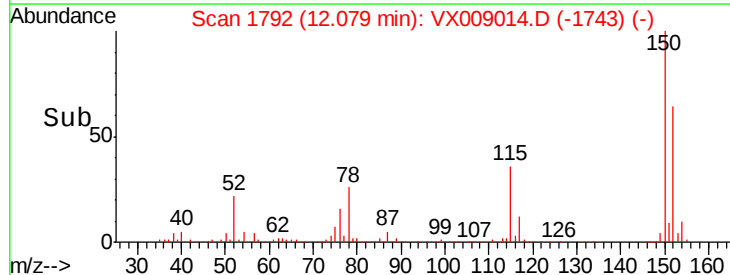
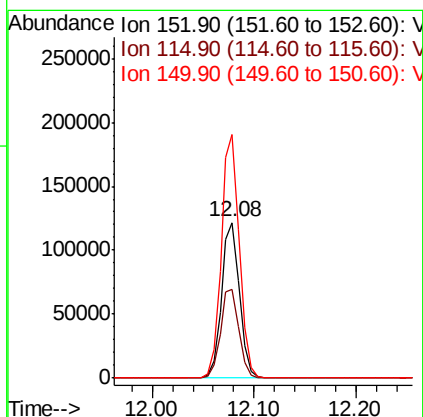
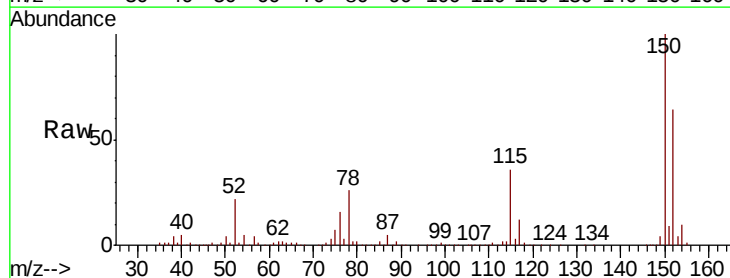
Instrument :
MSVOA_X
ClientSampled :
Z3-TB09-190415

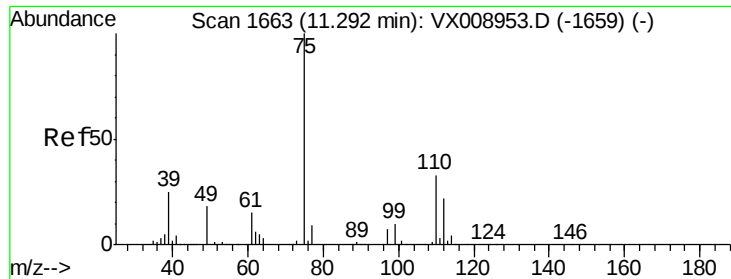
Tot Ion:117 Resp: 353507
Ion Ratio Lower Upper
117 100
82 60.8 48.2 72.4
119 31.5 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009014.D
Acq: 17 Apr 2019 15:00

Tgt Ion:152 Resp: 149104
Ion Ratio Lower Upper
152 100
115 58.8 41.4 124.2
150 157.6 0.0 349.8

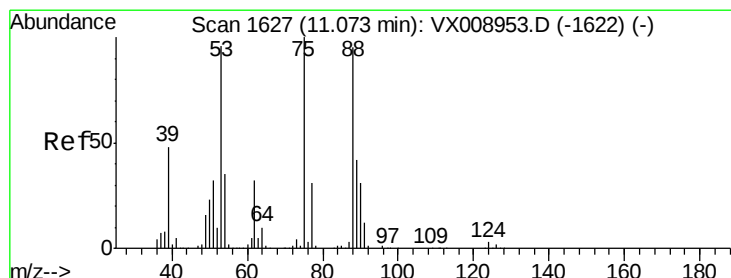
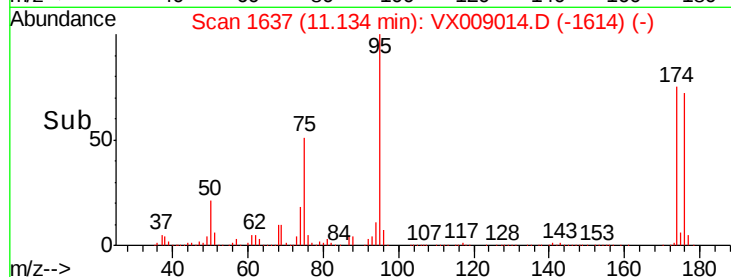
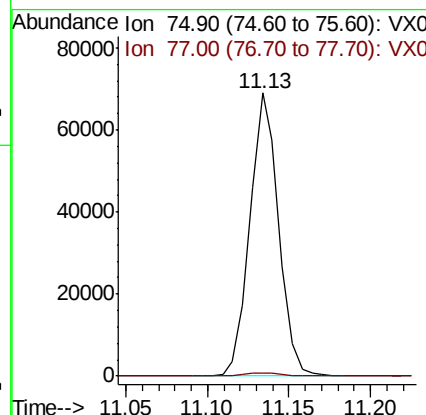
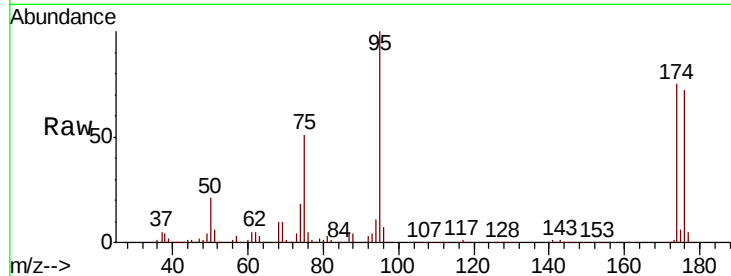




#76
 1,2,3-Trichloropropane
 Concen: 23.234 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009014.D
 Acq: 17 Apr 2019 15:00

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB09-190415

Tot Ion: 75 Resp: 84591
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.648 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009014.D
 Acq: 17 Apr 2019 15:00

Tgt Ion: 75 Resp: 84591
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.4#
 89 0.0 36.0 54.0#

