

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042219\
 Data File : VX009094.D
 Acq On : 22 Apr 2019 14:02
 Operator : JC/SP
 Sample : K2449-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB10-190415

Quant Time: Apr 23 02:33:07 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	5.66	168	245022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	399159	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	335638	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136181	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	163579	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
35) Dibromofluoromethane	5.50	113	120423	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
50) Toluene-d8	8.71	98	490538	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.13	95	157238	43.60	ug/l	0.00
Spiked Amount			Recovery	=	87.20%	

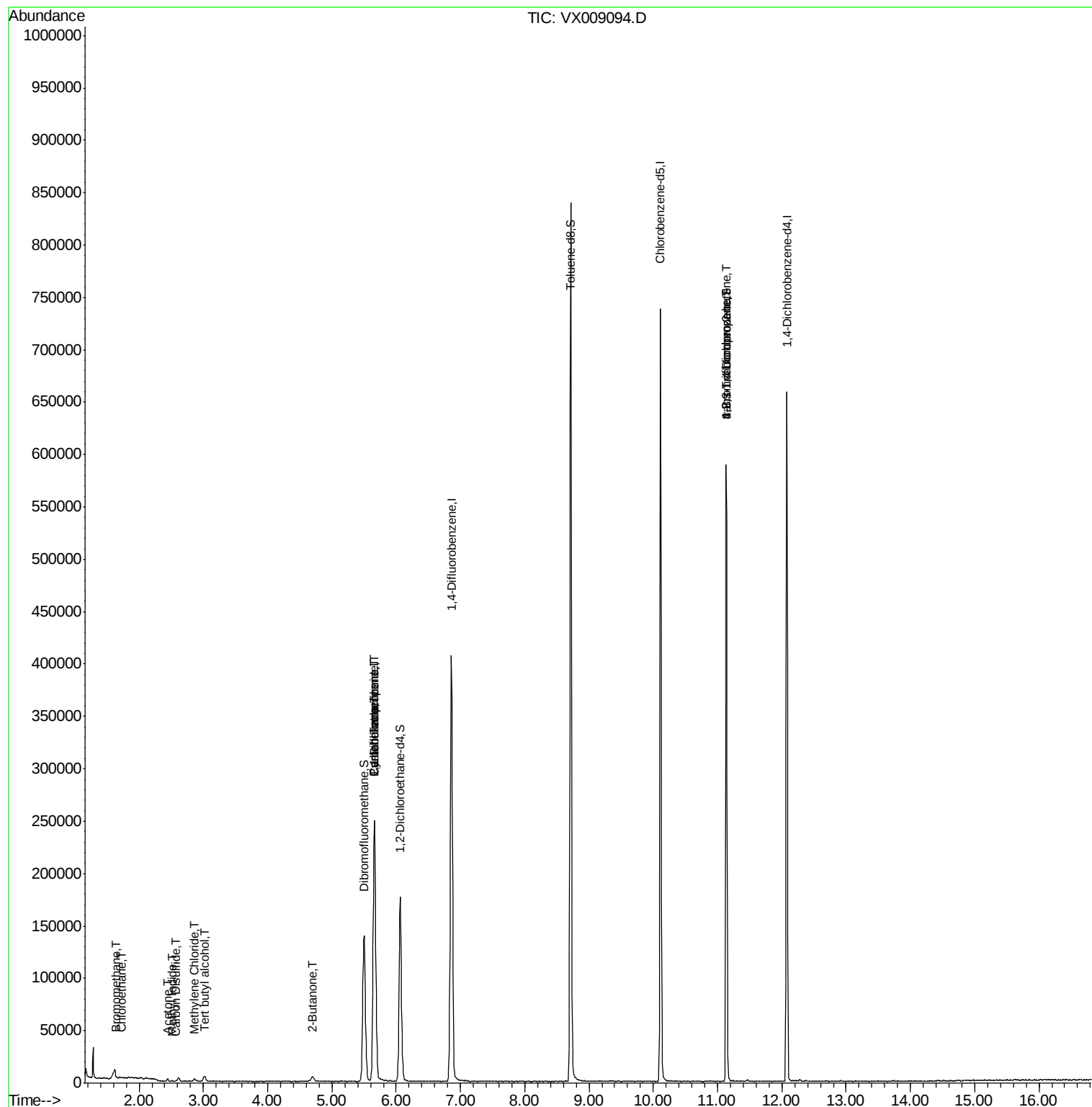
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	395	4.021	ug/l #	72
6) Chloroethane	1.72	64	1153	0.581	ug/l #	44
10) Methyl Iodide	2.52	142	82	4.442	ug/l #	42
11) Tert butyl alcohol	3.02	59	3274	4.271	ug/l #	80
16) Acetone	2.45	43	2434	1.359	ug/l #	87
17) Carbon Disulfide	2.57	76	489	1.314	ug/l #	63
20) Methylene Chloride	2.85	84	1130	0.369	ug/l #	87
25) 2-Butanone	4.69	43	709	0.248	ug/l #	54
28) Bromochloromethane	5.03	49	23	Below Cal	#	21
31) Cyclohexane	5.66	56	5578	1.014	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19595	4.747	ug/l #	50
38) Carbon Tetrachloride	5.66	117	23346	6.671	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	79549	23.923	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	79549	61.416	ug/l #	11

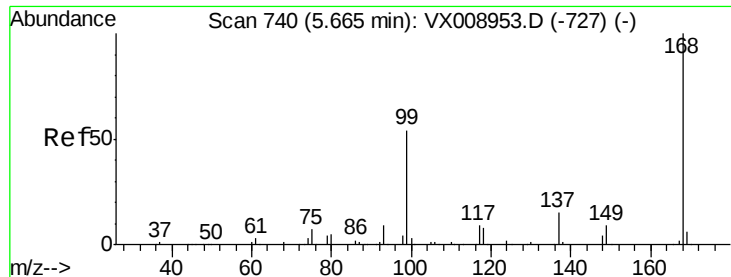
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

MSVOA_X

ClientSampleId :

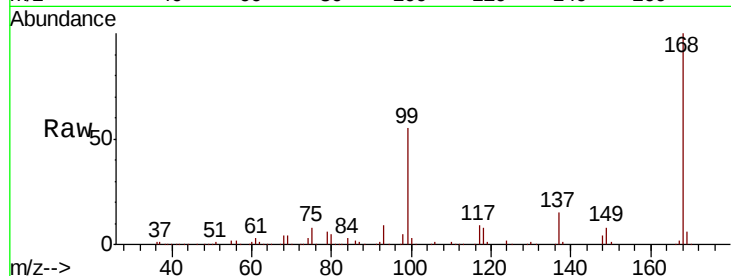
Z3-TB10-190415

Tot Ion:168 Resp: 245022

Ion Ratio Lower Upper

168 100

99 54.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): VX008953.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX008953.D (-727) (-)

5.66

80000

60000

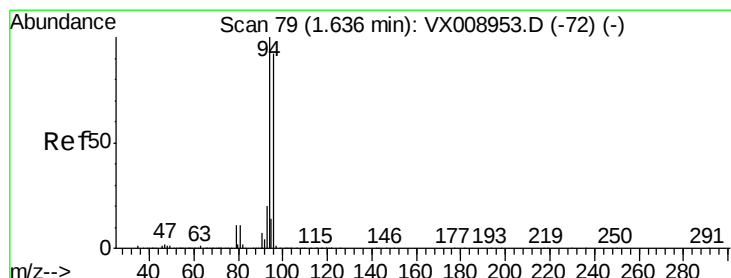
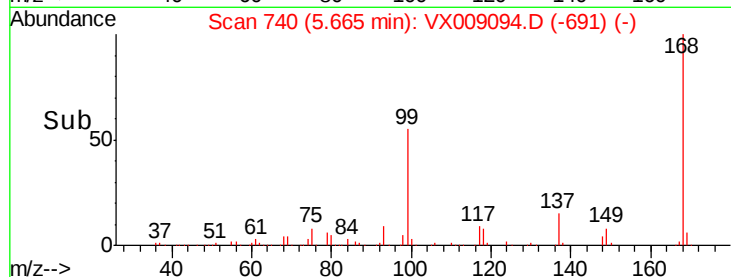
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.021 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009094.D

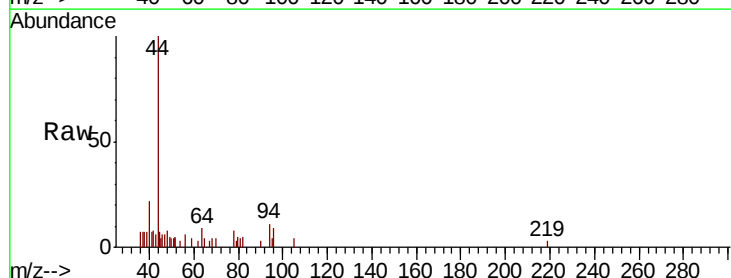
Acq: 22 Apr 2019 14:02

Tgt Ion: 94 Resp: 395

Ion Ratio Lower Upper

94 100

96 65.7 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX008953.D (-72) (-)

Ion 95.90 (95.60 to 96.60): VX008953.D (-72) (-)

1.65

200

150

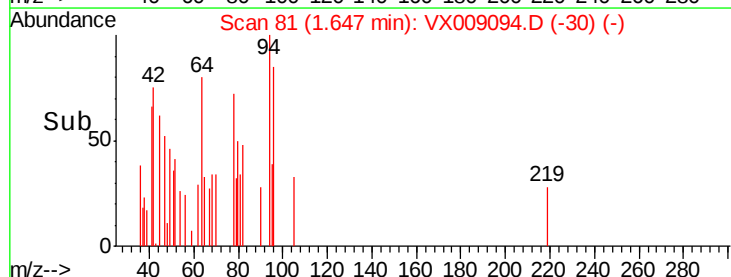
100

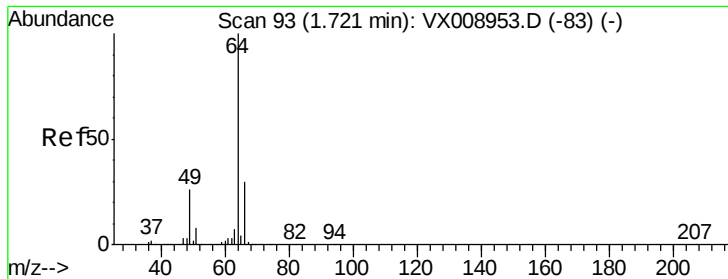
50

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.581 ug/l

RT: 1.72 min Scan# 93

Delta R.T. -0.00 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

MSVOA_X

ClientSampleId :

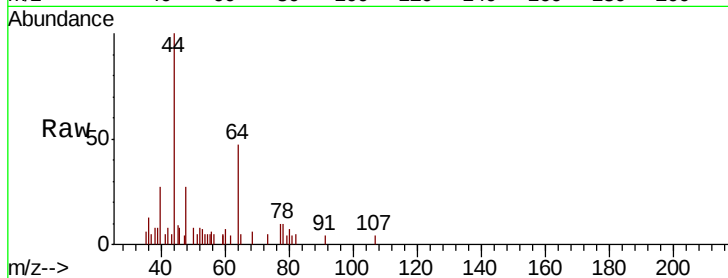
Z3-TB10-190415

Tot Ion: 64 Resp: 1153

Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

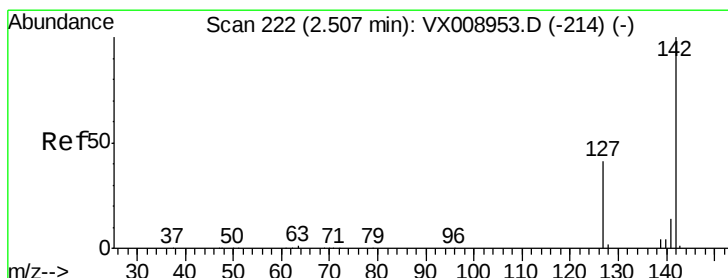
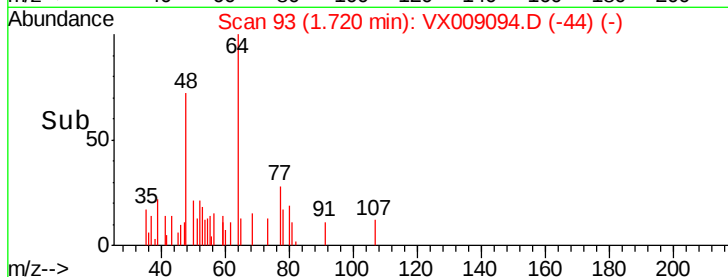
0

1.65

1.70

1.75

Time-->



#10

Methyl Iodide

Concen: 4.442 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

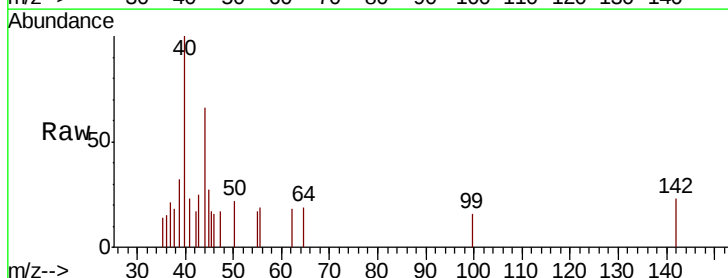
Tgt Ion: 142 Resp: 82

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



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

120

100

80

60

40

20

0

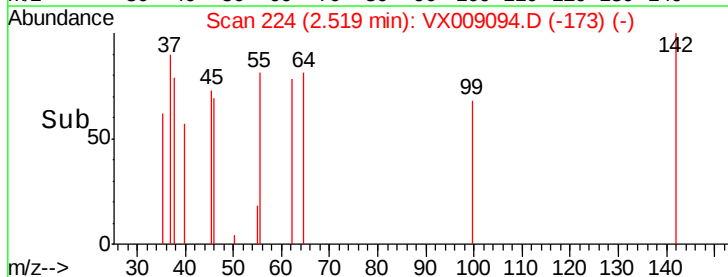
2.48

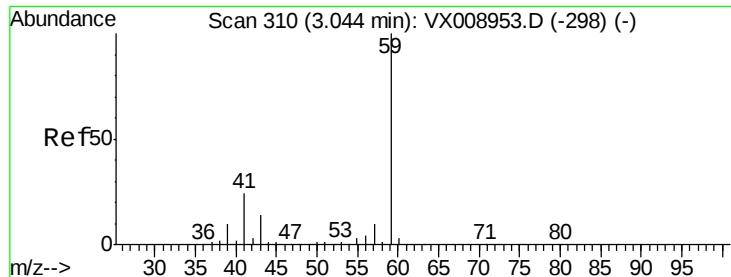
2.50

2.52

2.54

Time-->



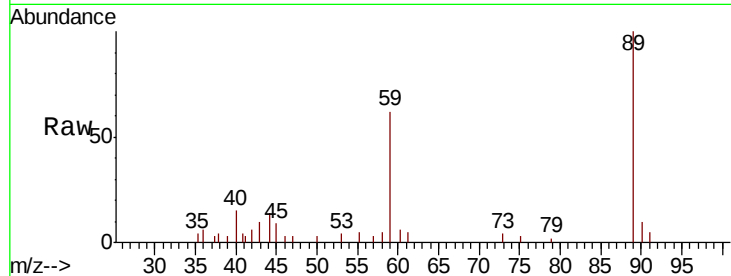


#11

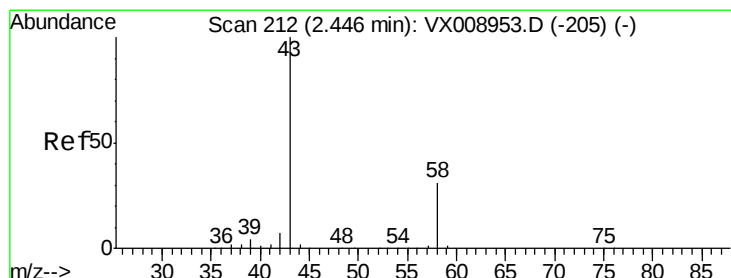
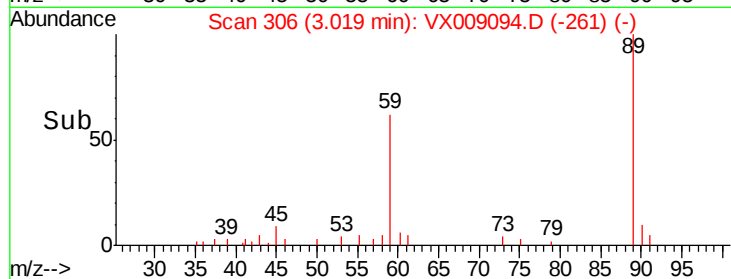
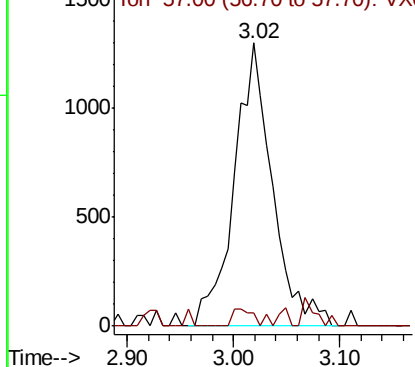
Tert butyl alcohol
 Concen: 4.271 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX009094.D
 Acq: 22 Apr 2019 14:02

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB10-190415

Tot Ion: 59 Resp: 3274
 Ion Ratio Lower Upper
 59 100
 57 3.1 8.4 12.6#



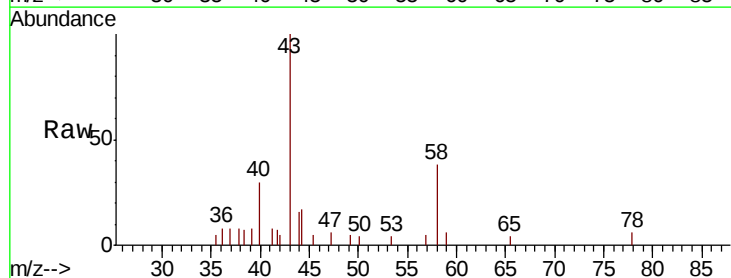
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



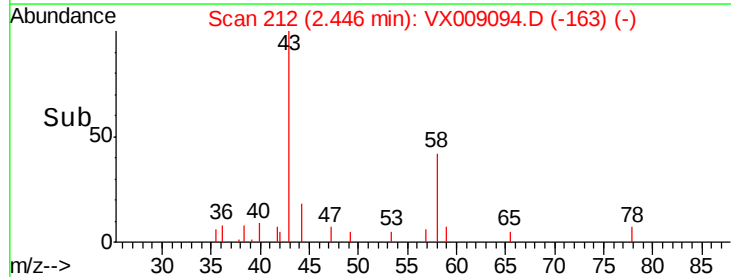
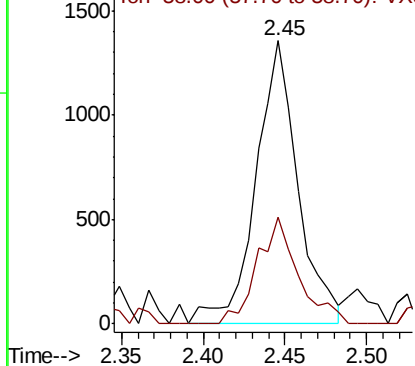
#16

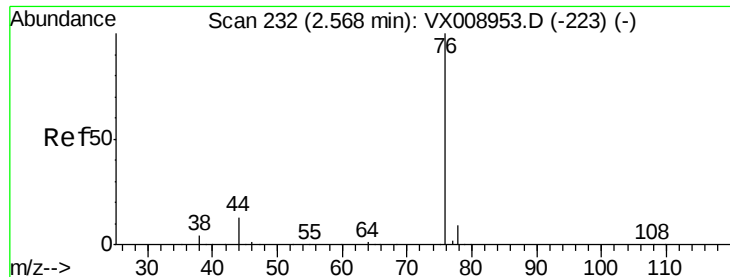
Acetone
 Concen: 1.359 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX009094.D
 Acq: 22 Apr 2019 14:02

Tgt Ion: 43 Resp: 2434
 Ion Ratio Lower Upper
 43 100
 58 37.9 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.314 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

MSVOA_X

ClientSampleId :

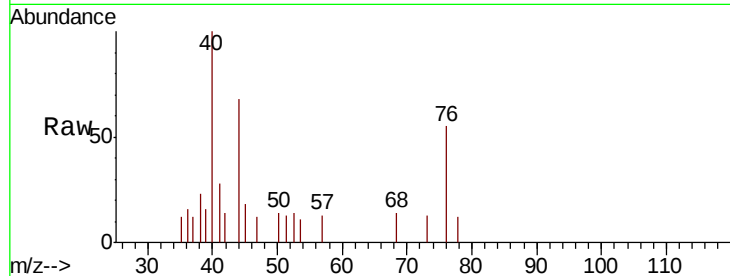
Z3-TB10-190415

Tot Ion: 76 Resp: 489

Ion Ratio Lower Upper

76 100

78 22.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

250

200

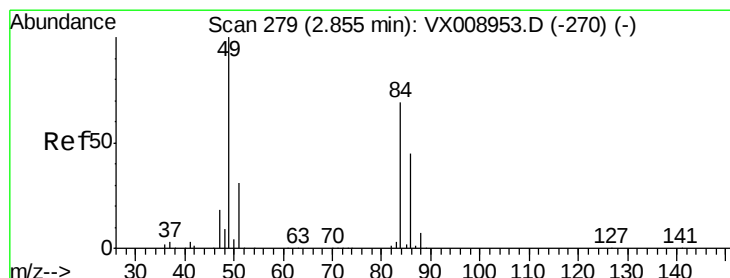
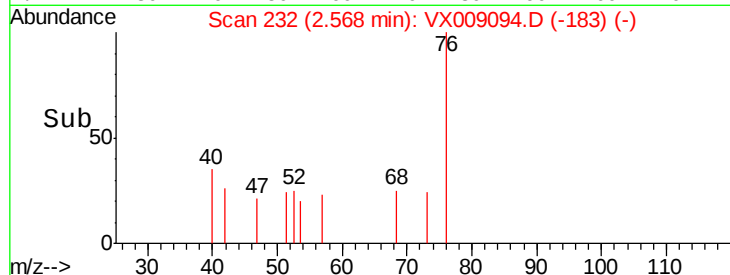
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 0.369 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Tgt Ion: 84 Resp: 1130

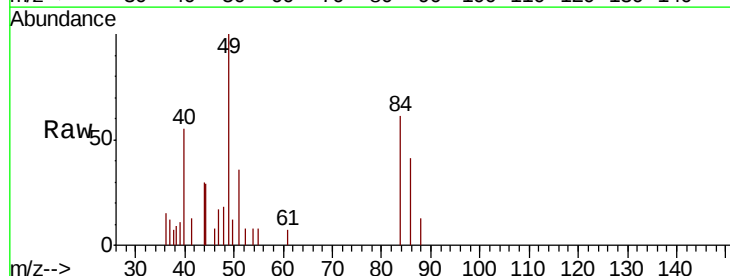
Ion Ratio Lower Upper

84 100

49 162.7 115.4 173.0

51 57.9 35.8 53.6#

86 67.4 52.1 78.1



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

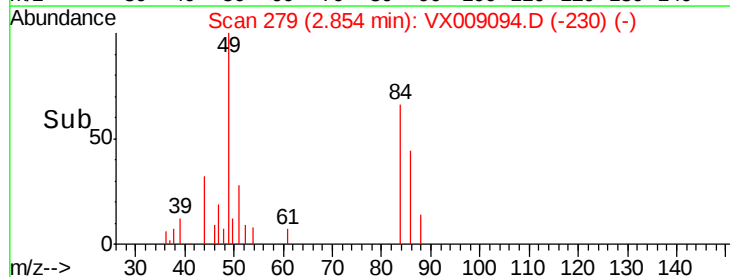
600

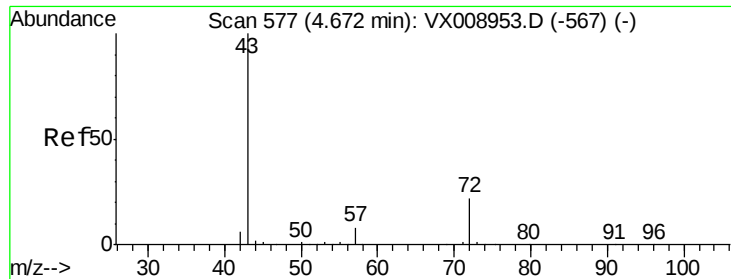
400

200

0

Time-->





#25

2-Butanone

Concen: 0.248 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

MSVOA_X

ClientSampleId :

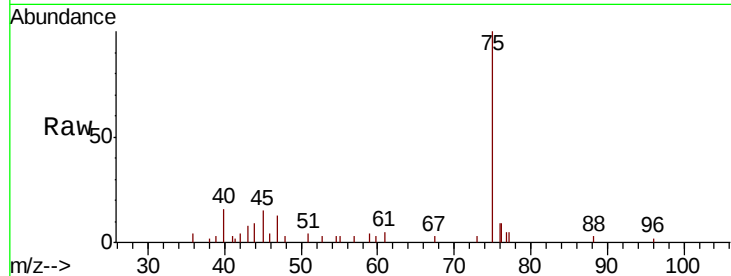
Z3-TB10-190415

Tot Ion: 43 Resp: 709

Ion Ratio Lower Upper

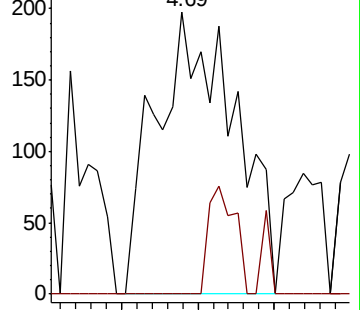
43 100

72 0.0 17.5 26.3#

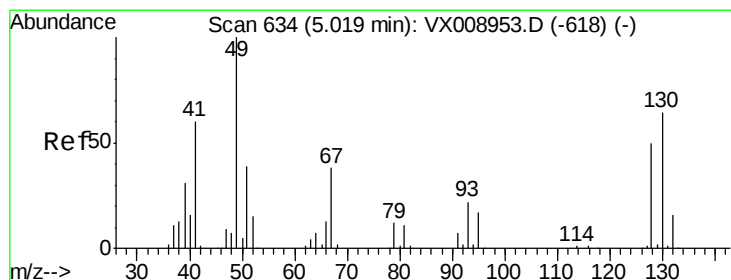
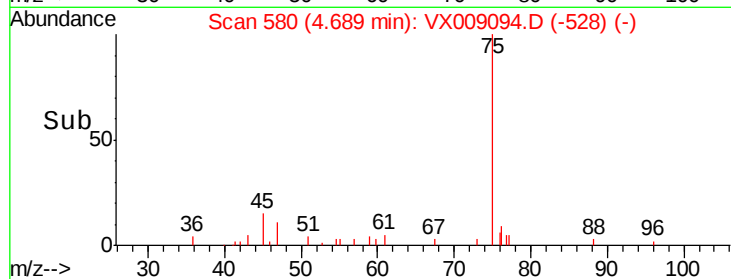


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

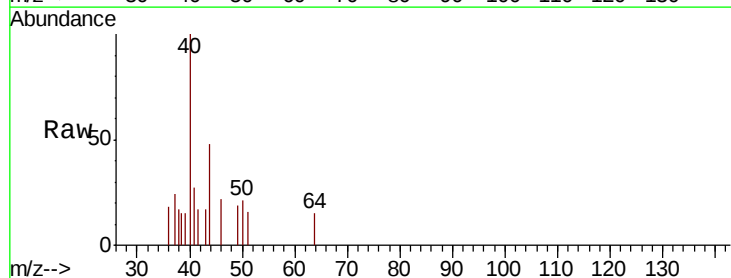
Tgt Ion: 49 Resp: 23

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

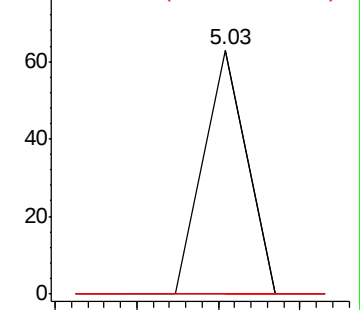
130 0.0 50.4 75.6#



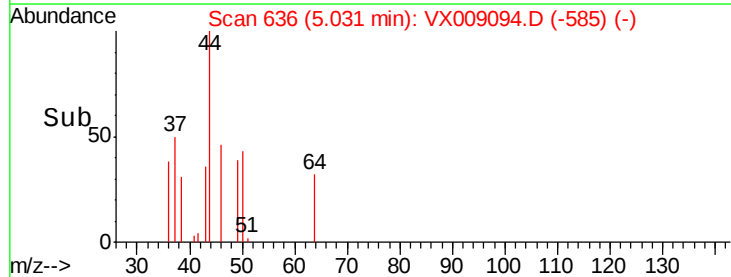
Abundance Ion 48.90 (48.60 to 49.60): VX0

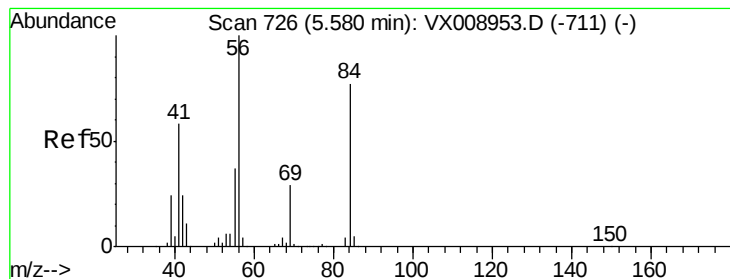
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->





#31

Cyclohexane

Concen: 1.014 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

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Z3-TB10-190415

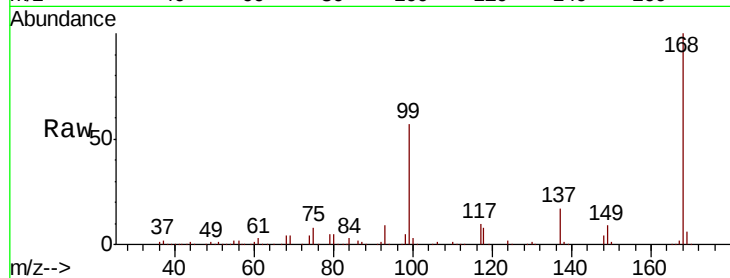
Tot Ion: 56 Resp: 5578

Ion Ratio Lower Upper

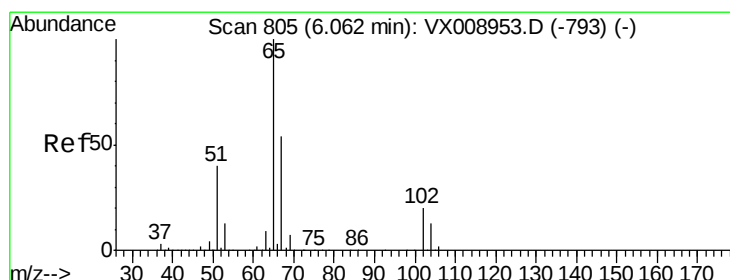
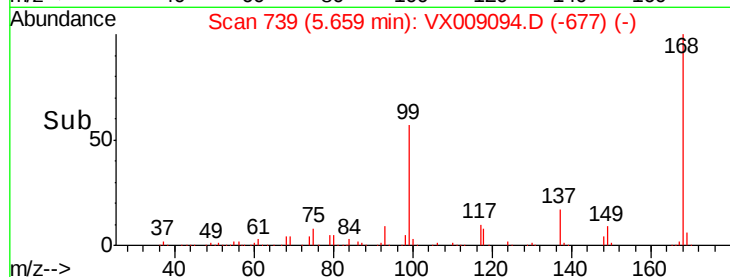
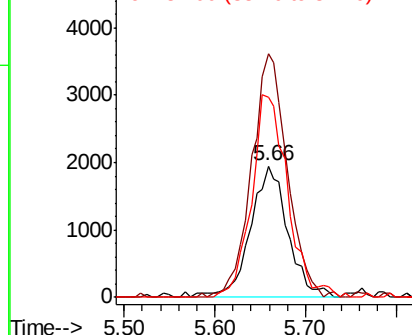
56 100

69 185.9 23.3 34.9#

84 153.0 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: 47.372 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009094.D

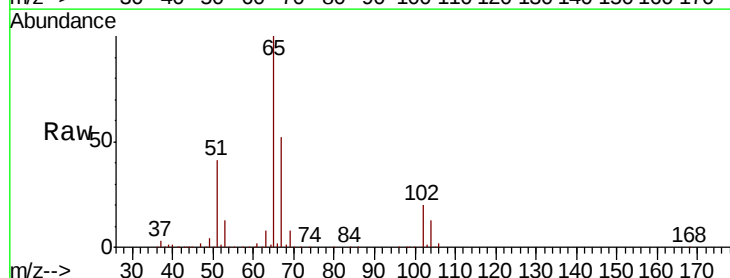
Acq: 22 Apr 2019 14:02

Tgt Ion: 65 Resp: 163579

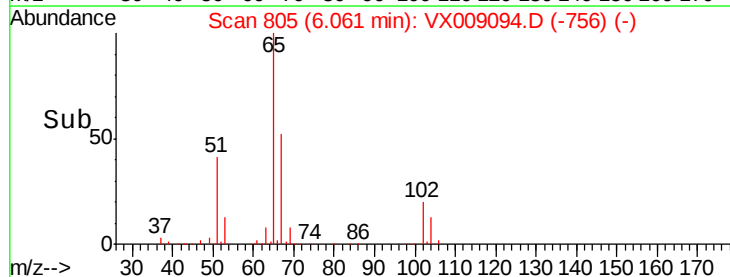
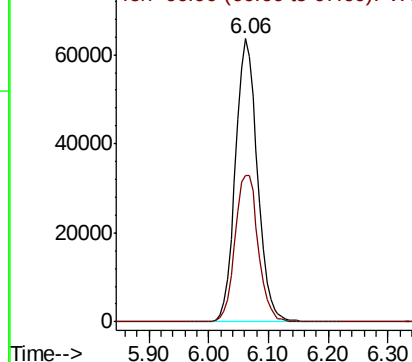
Ion Ratio Lower Upper

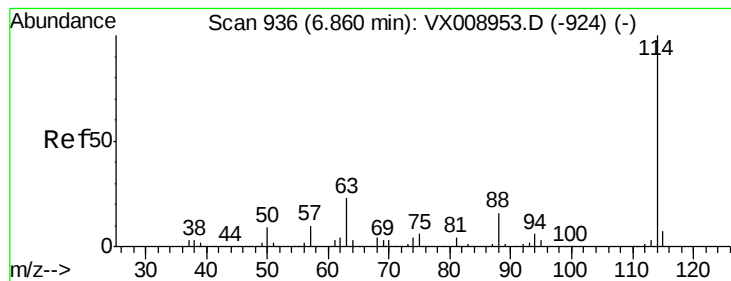
65 100

67 54.6 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: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

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Z3-TB10-190415

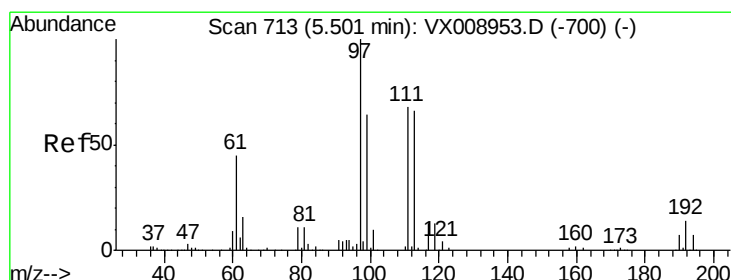
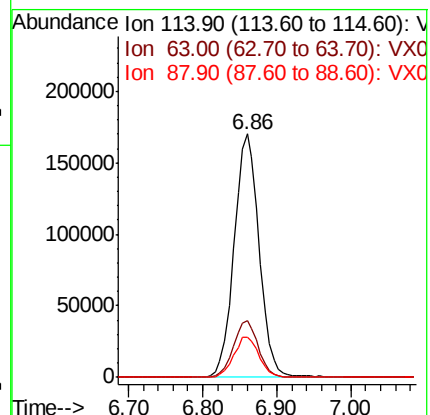
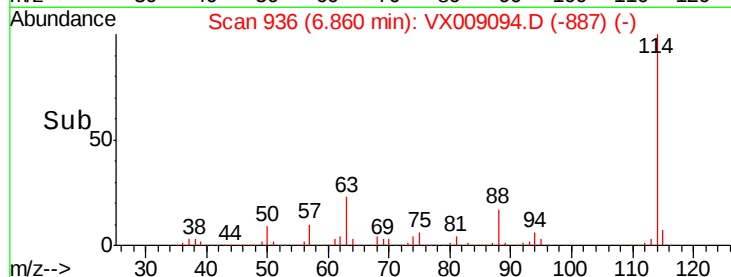
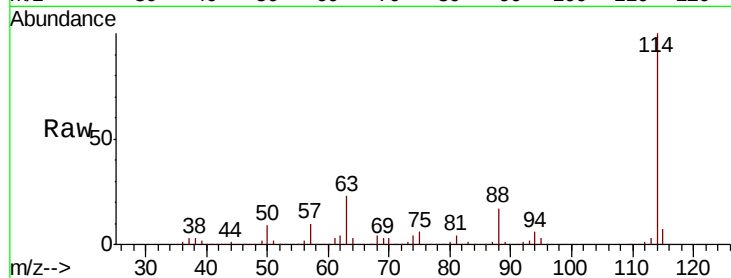
Tot Ion:114 Resp: 399159

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.0

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.009 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

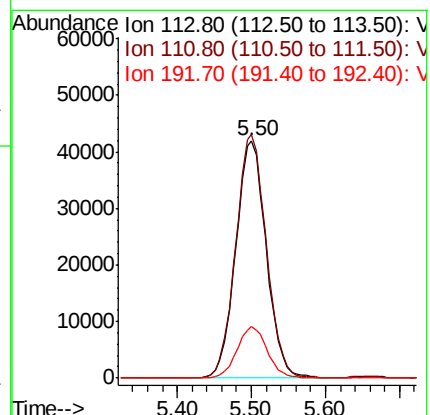
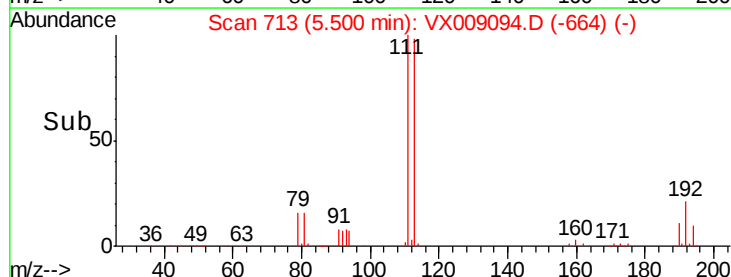
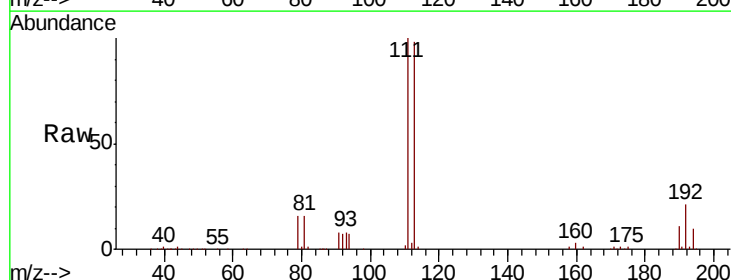
Tgt Ion:113 Resp: 120423

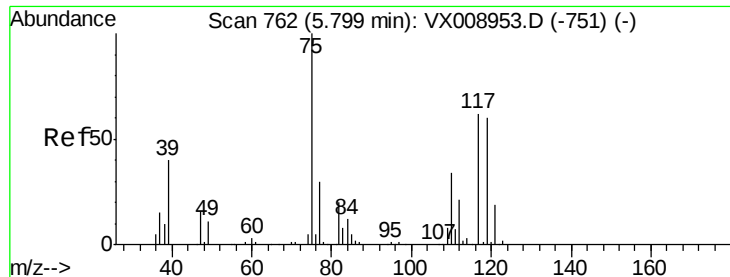
Ion Ratio Lower Upper

113 100

111 103.1 82.9 124.3

192 21.5 17.4 26.0

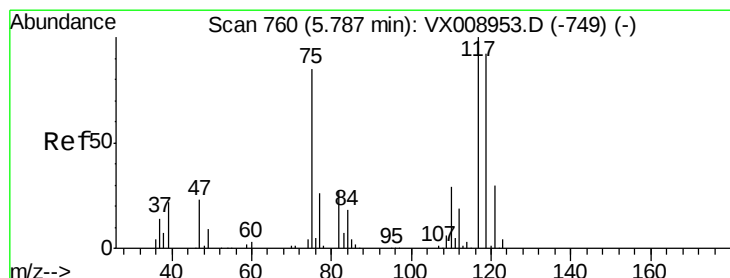
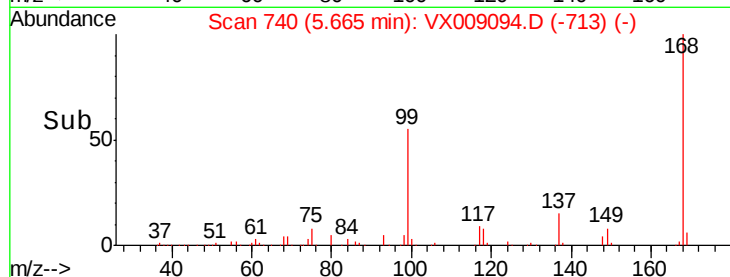
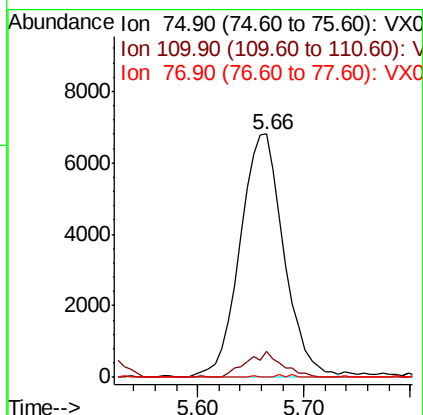
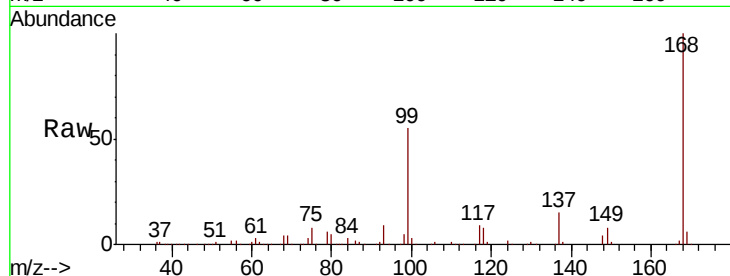




#36
 1,1-Dichloropropene
 Concen: 4.747 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009094.D
 Acq: 22 Apr 2019 14:02

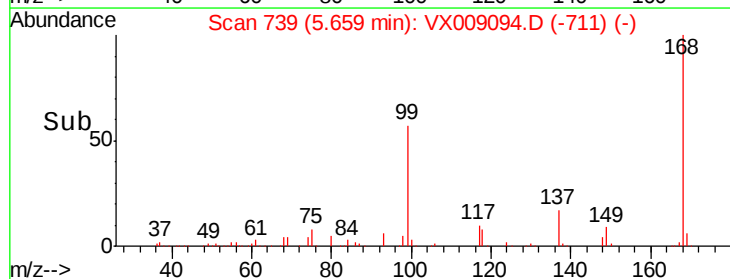
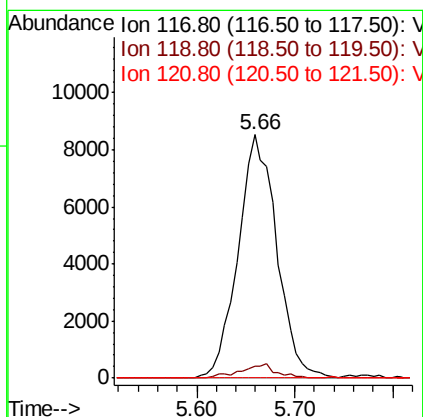
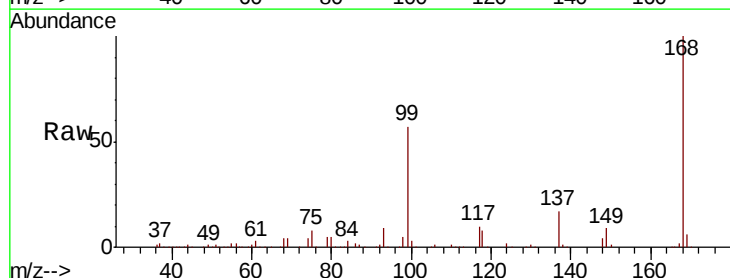
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB10-190415

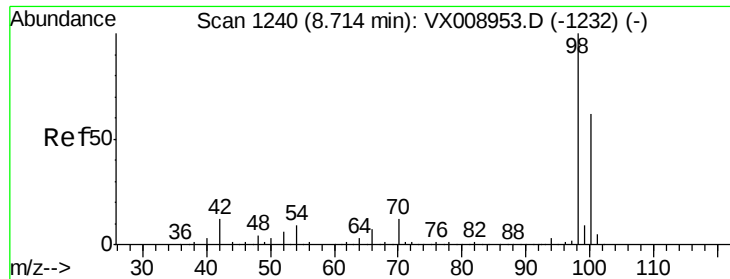
Tot Ion	75	Resp	19595
Ion Ratio	100	Lower	Upper
75	100		
110	8.7	16.9	50.7#
77	0.3	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.671 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009094.D
 Acq: 22 Apr 2019 14:02

Tgt Ion	117	Resp	23346
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.9	73.8	110.8#
121	0.0	23.6	35.4#

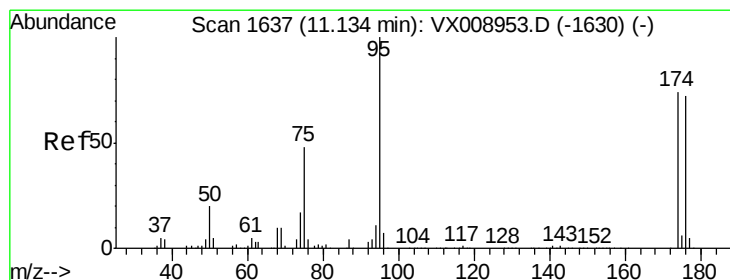
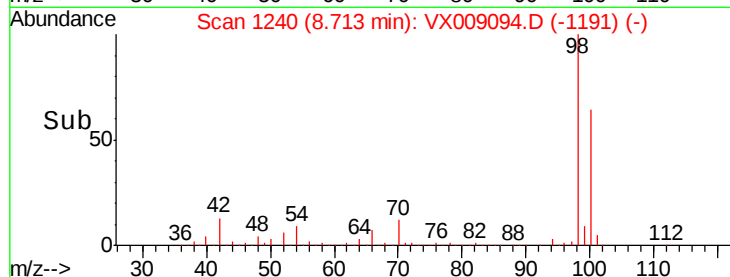
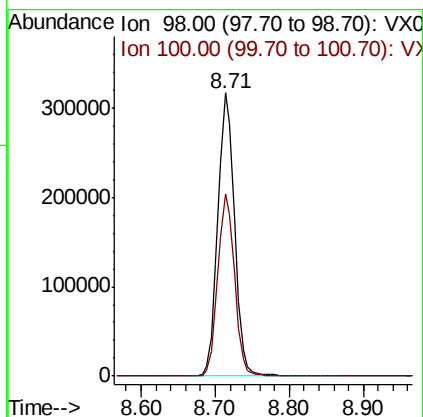
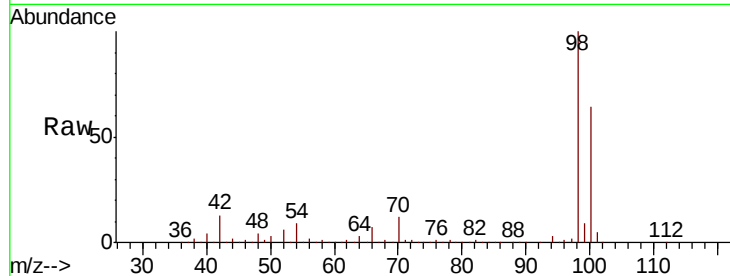




#50
Toluene-d8
Concen: 48.016 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009094.D
Acq: 22 Apr 2019 14:02

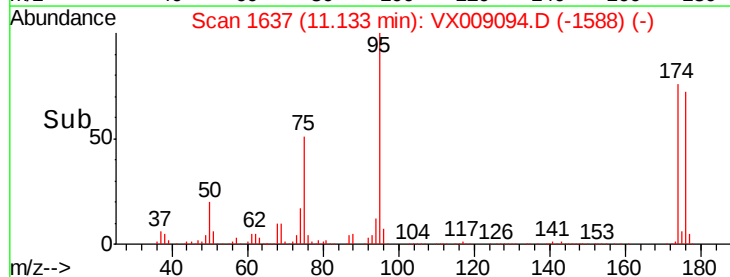
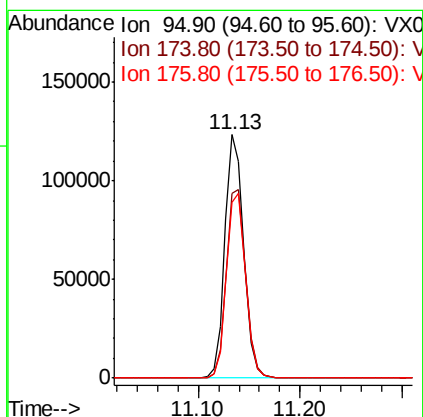
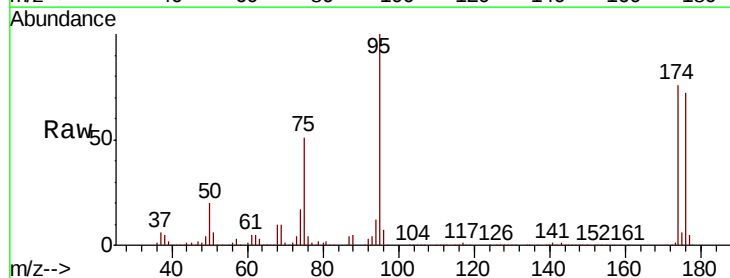
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-190415

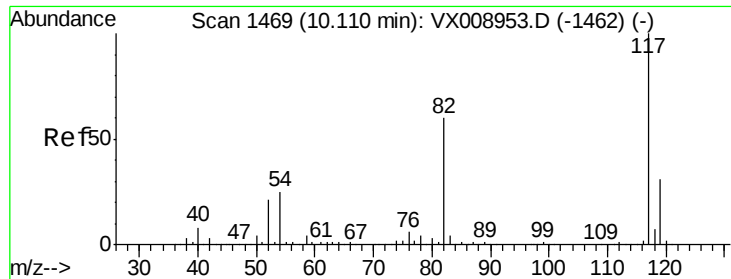
Tot Ion: 98 Resp: 490538
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 43.600 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009094.D
Acq: 22 Apr 2019 14:02

Tgt Ion: 95 Resp: 157238
Ion Ratio Lower Upper
95 100
174 79.8 0.0 159.6
176 77.2 0.0 154.8

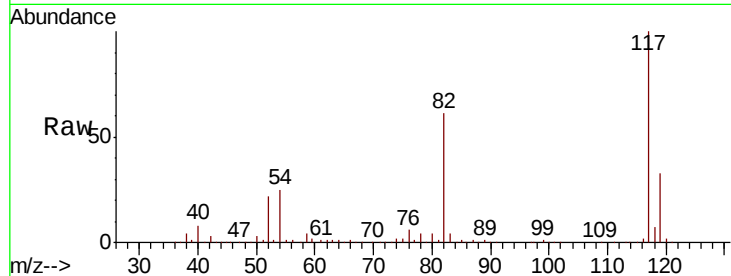




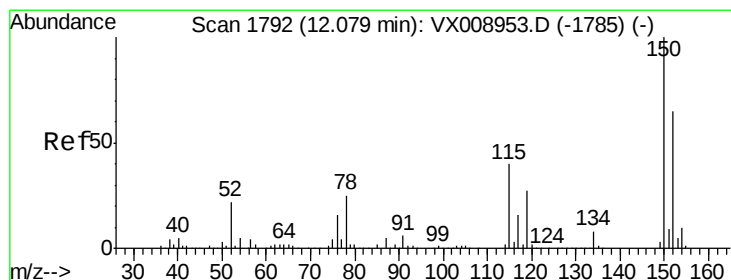
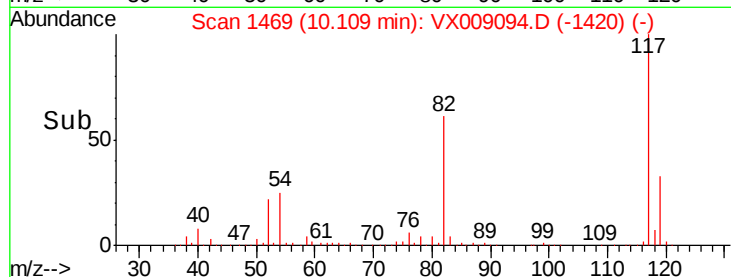
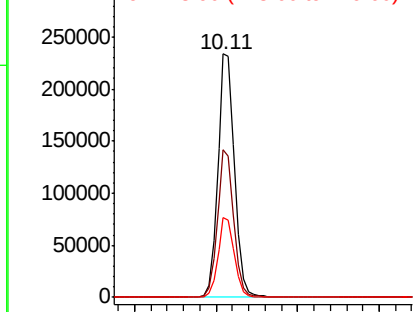
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009094.D
Acq: 22 Apr 2019 14:02

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-190415

Tot Ion:117 Resp: 335638
Ion Ratio Lower Upper
117 100
82 60.7 48.2 72.4
119 32.6 25.0 37.6

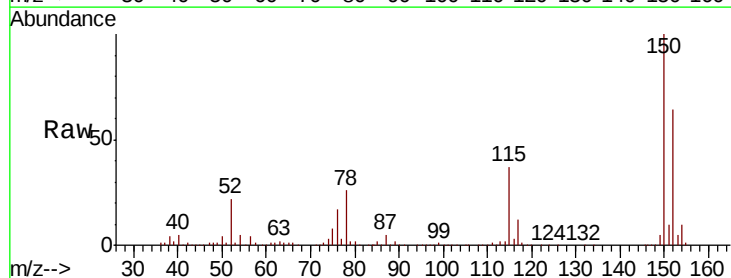


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

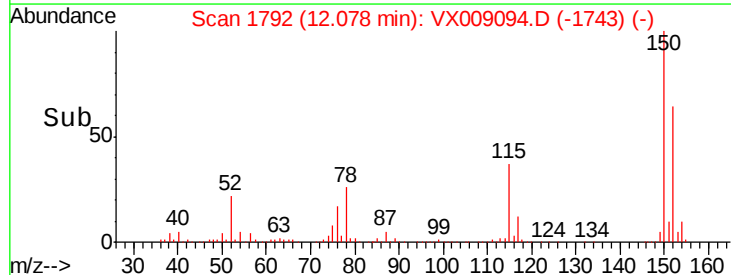
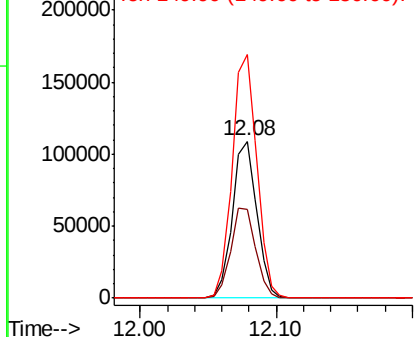


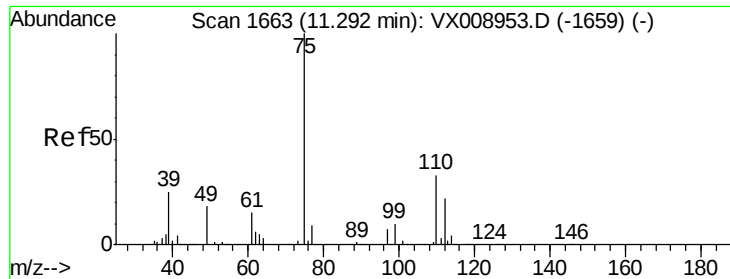
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009094.D
Acq: 22 Apr 2019 14:02

Tgt Ion:152 Resp: 136181
Ion Ratio Lower Upper
152 100
115 58.9 41.4 124.2
150 156.7 0.0 349.8



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: 23.923 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

Instrument :

MSVOA_X

ClientSampleId :

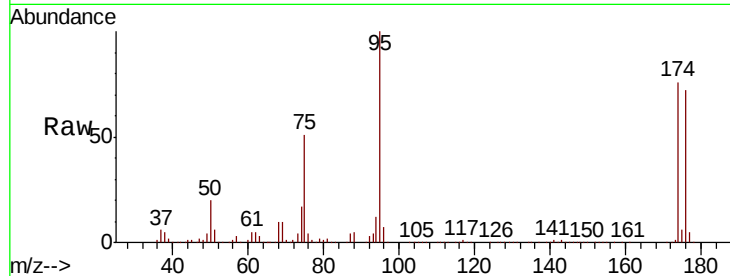
Z3-TB10-190415

Tot Ion: 75 Resp: 79549

Ion Ratio Lower Upper

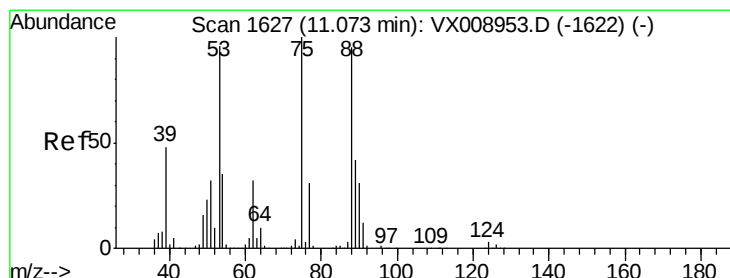
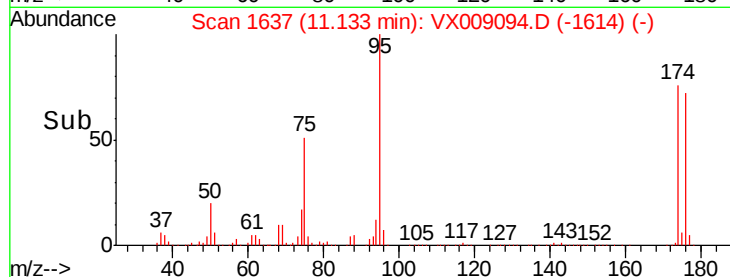
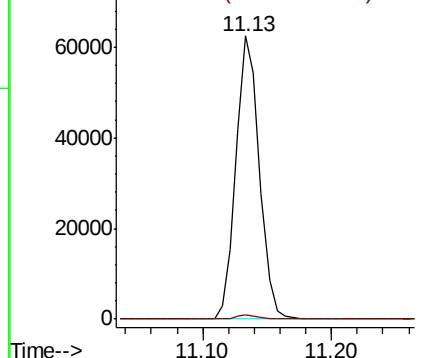
75 100

77 1.4 22.7 68.0#



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: 61.416 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009094.D

Acq: 22 Apr 2019 14:02

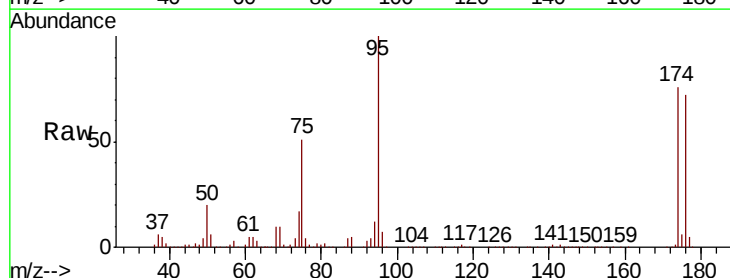
Tgt Ion: 75 Resp: 79549

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



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

