

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031619\
 Data File : VX008137.D
 Acq On : 16 Mar 2019 13:34
 Operator : JC/SP
 Sample : PB117440TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117440TB

Quant Time: Mar 18 01:11:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

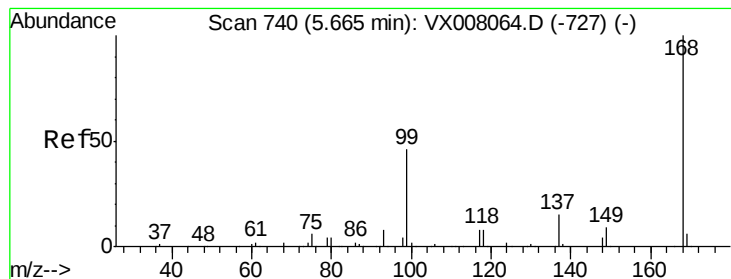
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	303326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	408975	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	347483	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156076	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	135739	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	
35) Dibromofluoromethane	5.50	113	125146	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	477401	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
62) 4-Bromofluorobenzene	11.13	95	150740	42.66	ug/l	0.00
Spiked Amount			Recovery	=	85.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	363	Below Cal	#	74
6) Chloroethane	1.72	64	170	Below Cal	#	65
8) Diethyl Ether	2.18	74	383	0.235	ug/l	82
13) Acrolein	2.30	56	120	0.220	ug/l #	56
15) Acrylonitrile	3.15	53	327	0.227	ug/l #	77
16) Acetone	2.45	43	5326	3.687	ug/l	93
18) Methyl Acetate	2.78	43	1220	0.391	ug/l	91
20) Methylene Chloride	2.86	84	15907	6.166	ug/l	90
25) 2-Butanone	4.70	43	1319	0.595	ug/l	90
29) Tetrahydrofuran	5.16	42	902	0.652	ug/l #	83
31) Cyclohexane	5.67	56	4265	0.975	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16770	4.984	ug/l #	49
38) Carbon Tetrachloride	5.66	117	24919	7.695	ug/l #	16
41) Methacrylonitrile	5.17	41	633	0.301	ug/l #	50
43) Isopropyl Acetate	6.46	43	9625	1.653	ug/l	96
48) Methyl methacrylate	7.68	41	4982	1.638	ug/l #	16
49) 1,4-Dioxane	7.88	88	152	2.317	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	71761	18.697	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	39817	10.083	ug/l #	58
57) 1,3-Dichloropropane	9.54	76	9388	2.126	ug/l #	44
59) 2-Hexanone	9.54	43	115844	38.594	ug/l #	52
74) N-amyl acetate	10.69	43	12403	2.941	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	67515	24.908	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	7910	0.960	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	67515	70.879	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

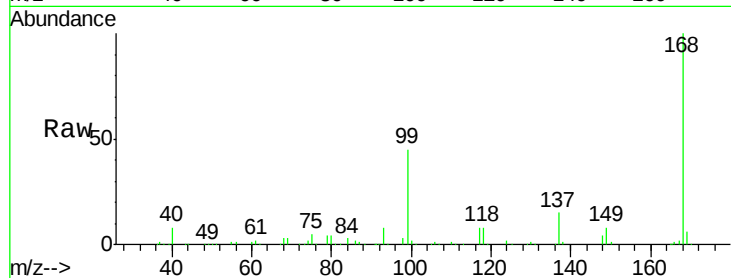
PB117440TB

Tot Ion:168 Resp: 303326

Ion Ratio Lower Upper

168 100

99 45.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

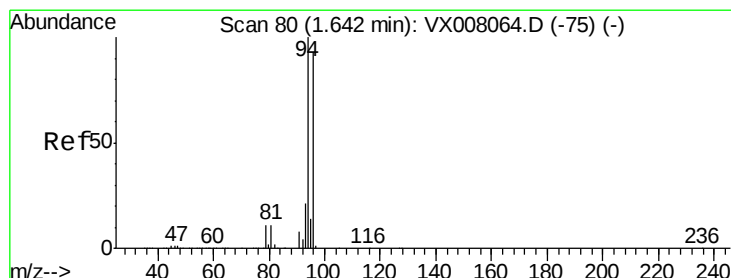
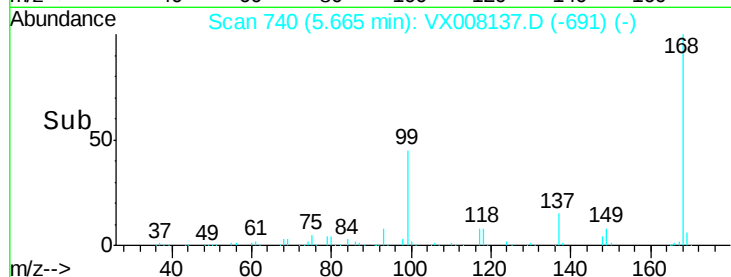
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008137.D

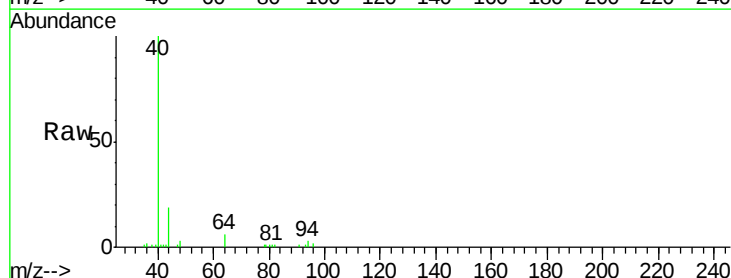
Acq: 16 Mar 2019 13:34

Tgt Ion: 94 Resp: 363

Ion Ratio Lower Upper

94 100

96 68.8 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

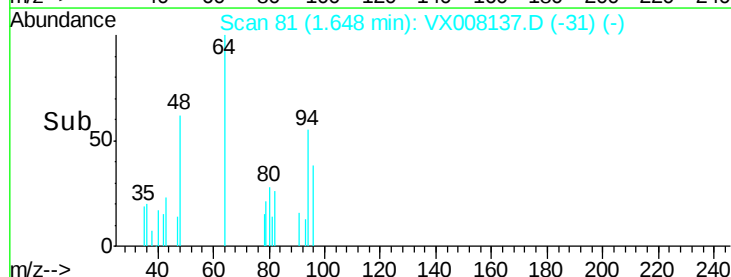
150

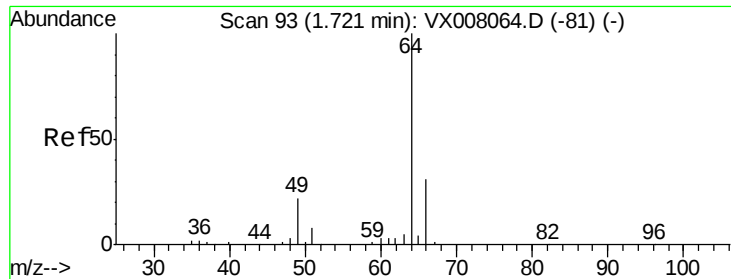
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

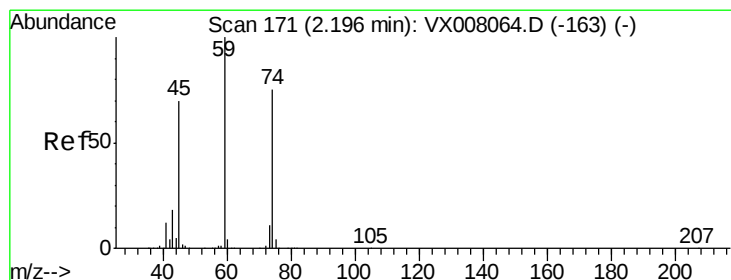
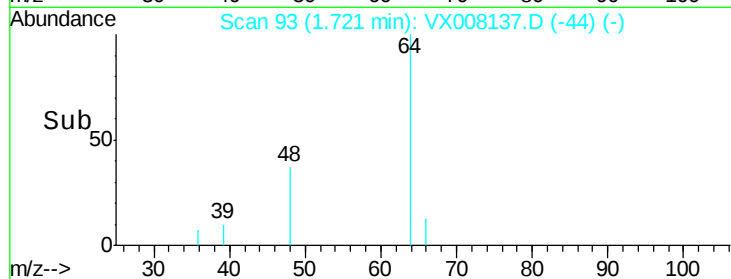
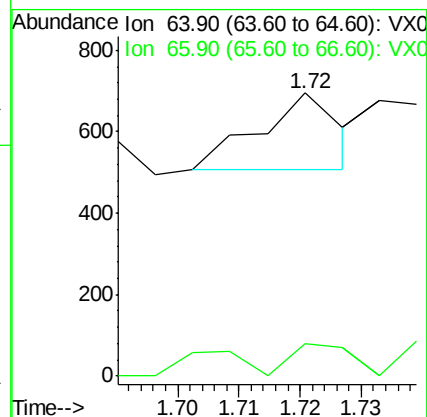
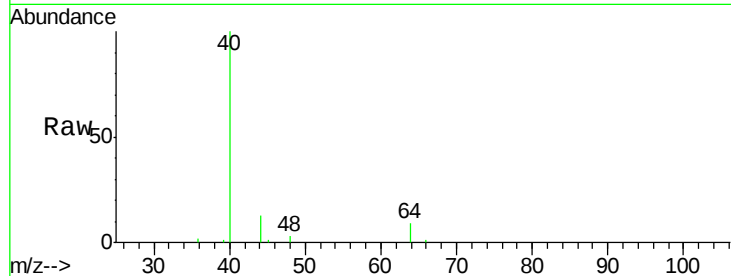
PB117440TB

Tot Ion: 64 Resp: 170

Ion Ratio Lower Upper

64 100

66 12.3 25.2 37.8#



#8

Diethyl Ether

Concen: 0.235 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX008137.D

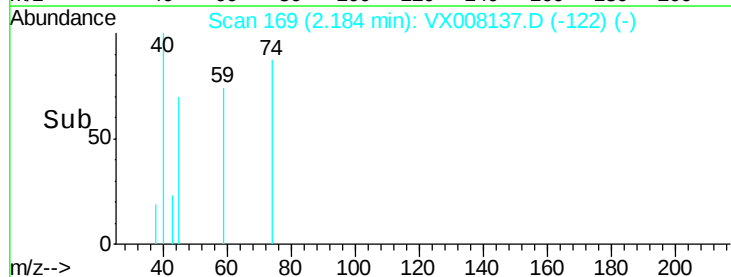
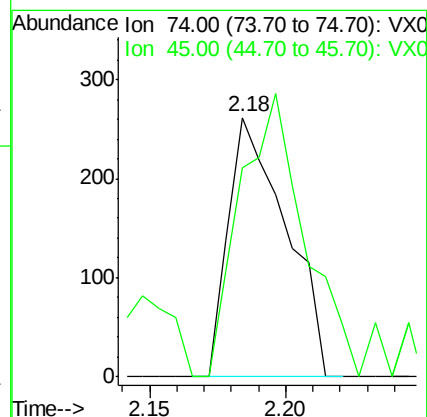
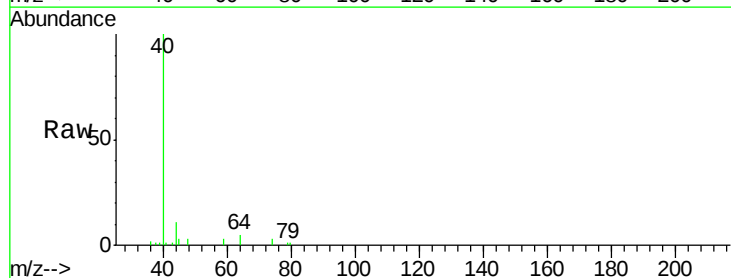
Acq: 16 Mar 2019 13:34

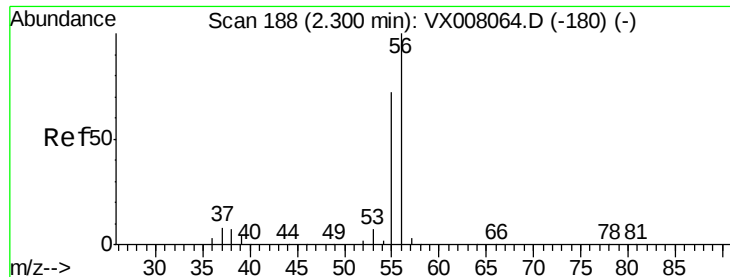
Tgt Ion: 74 Resp: 383

Ion Ratio Lower Upper

74 100

45 122.5 52.1 156.4





#13

Acrolein

Concen: 0.220 ug/l

RT: 2.30 min Scan# 188

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

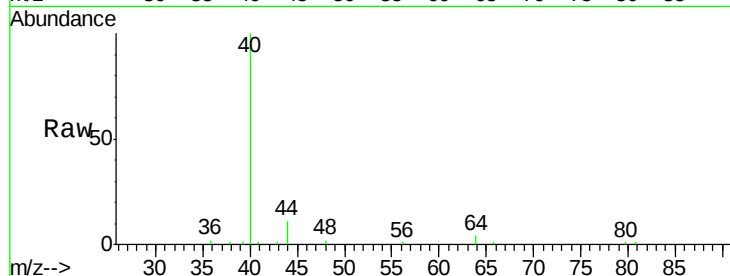
PB117440TB

Tot Ion: 56 Resp: 120

Ion Ratio Lower Upper

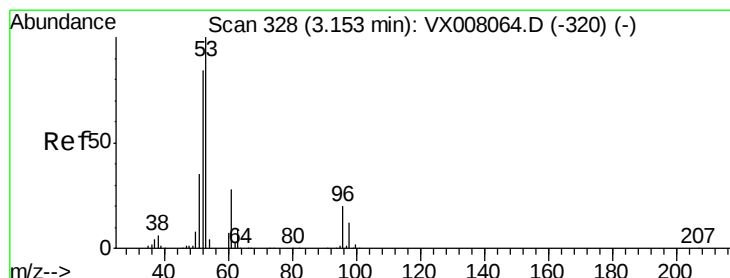
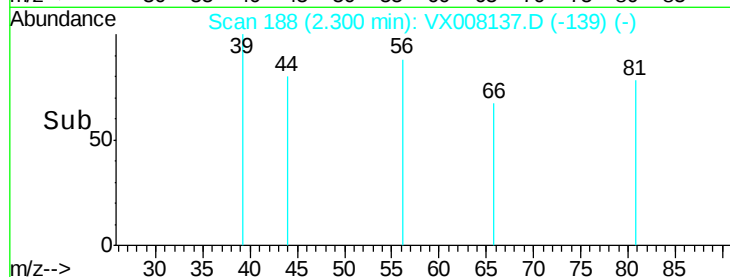
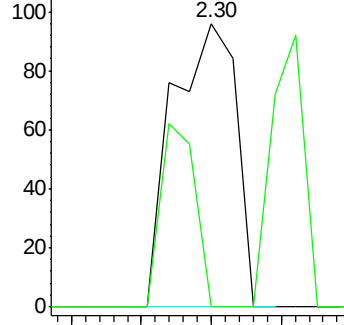
56 100

55 35.8 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.227 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

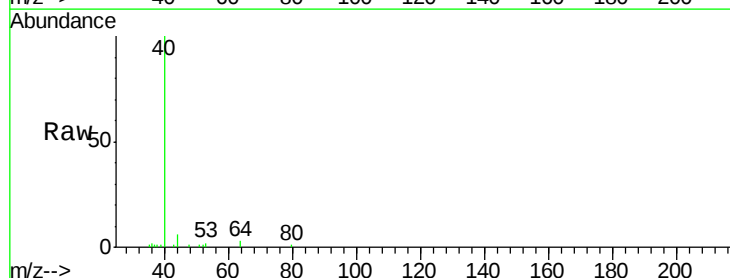
Tgt Ion: 53 Resp: 327

Ion Ratio Lower Upper

53 100

52 99.1 66.0 99.0#

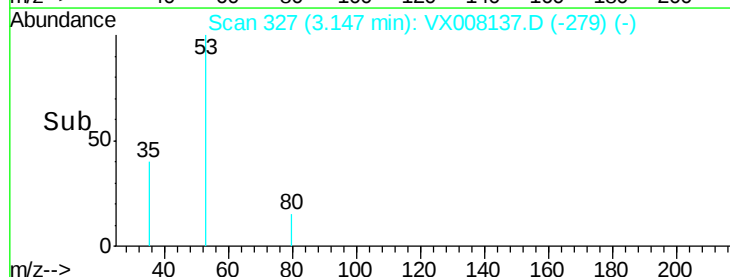
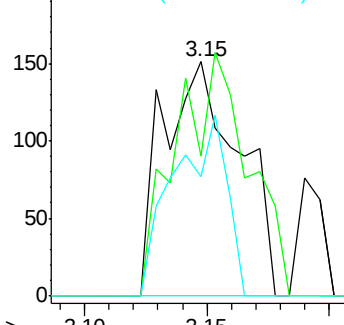
51 53.8 28.0 42.0#

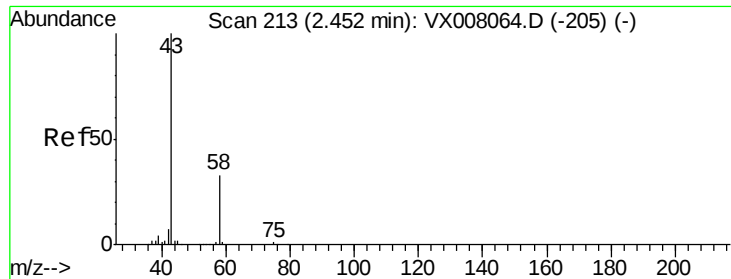


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 3.687 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

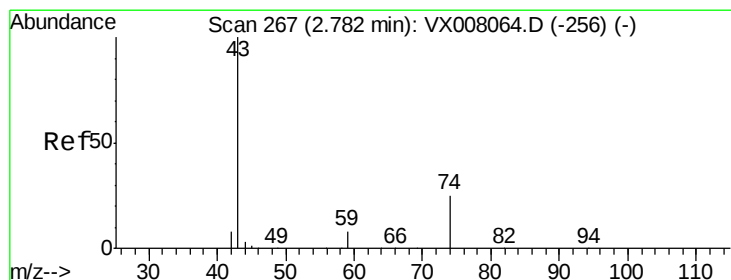
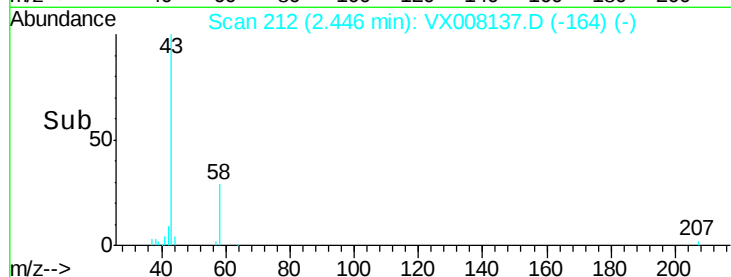
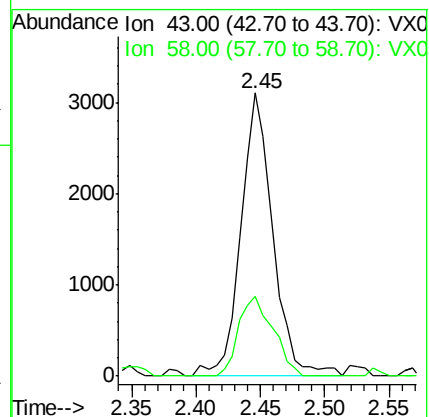
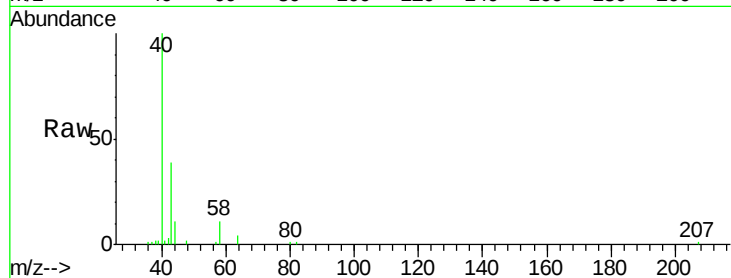
PB117440TB

Tot Ion: 43 Resp: 5326

Ion Ratio Lower Upper

43 100

58 28.0 25.5 38.3



#18

Methyl Acetate

Concen: 0.391 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX008137.D

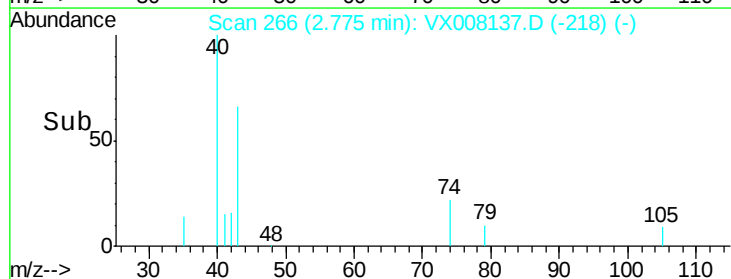
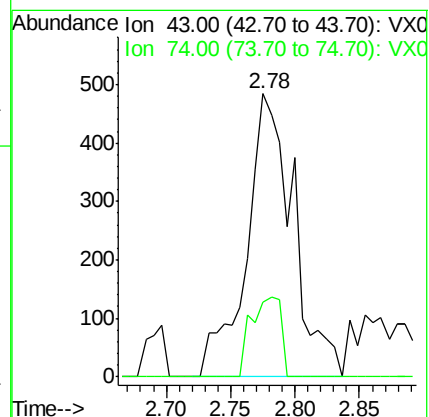
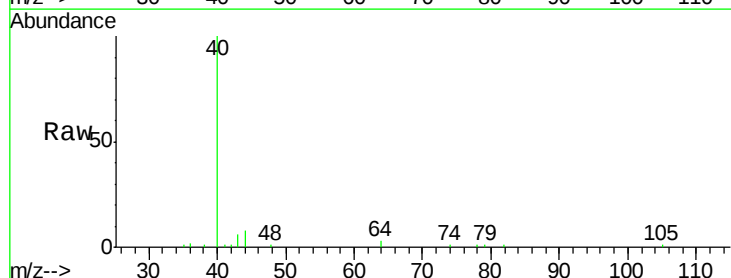
Acq: 16 Mar 2019 13:34

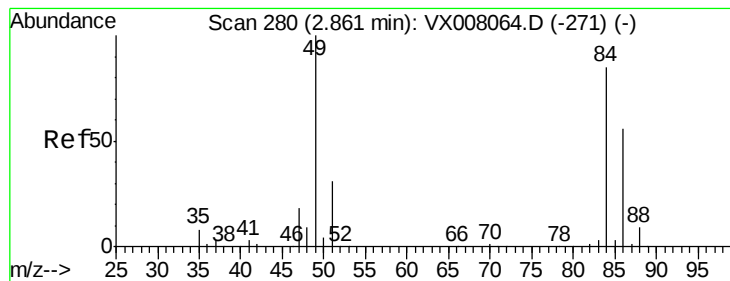
Tgt Ion: 43 Resp: 1220

Ion Ratio Lower Upper

43 100

74 17.8 17.8 26.6





#20

Methvlene Chloride

Concen: 6.166 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

Tot Ion: 84 Resp: 15907

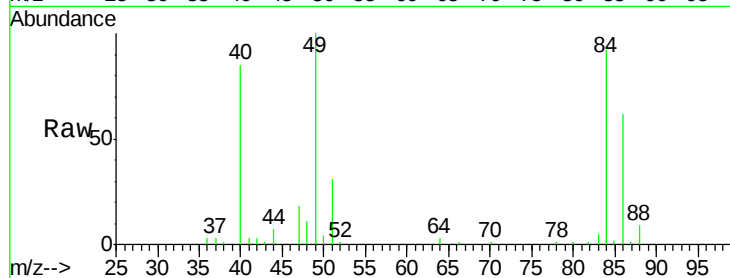
Ion Ratio Lower Upper

84 100

49 108.5 99.3 148.9

51 33.5 31.3 46.9

86 67.8 52.6 79.0

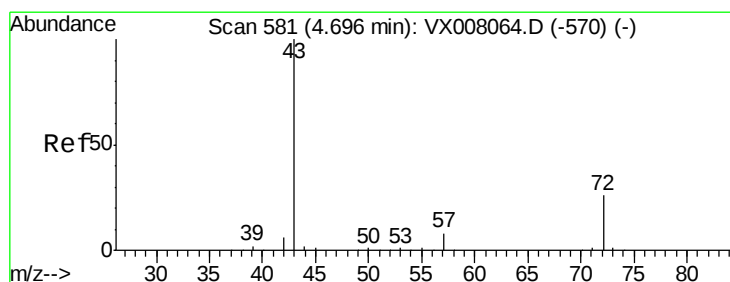
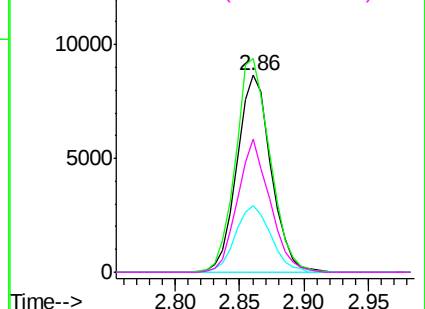
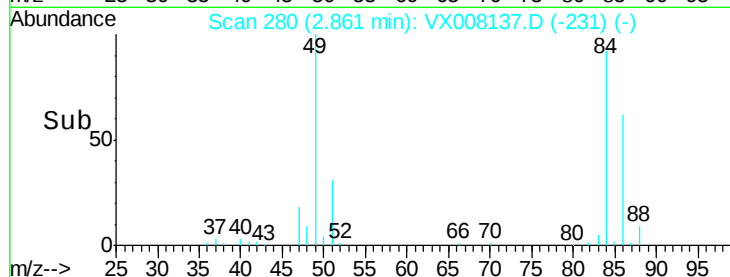


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.595 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX008137.D

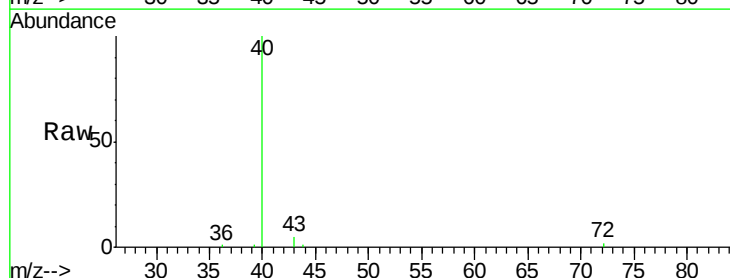
Acq: 16 Mar 2019 13:34

Tgt Ion: 43 Resp: 1319

Ion Ratio Lower Upper

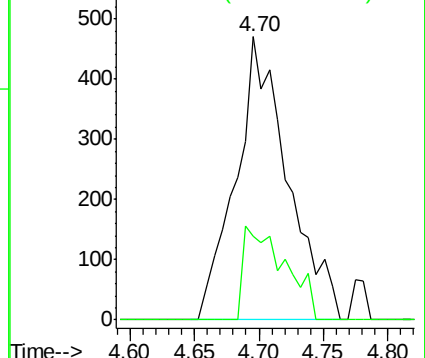
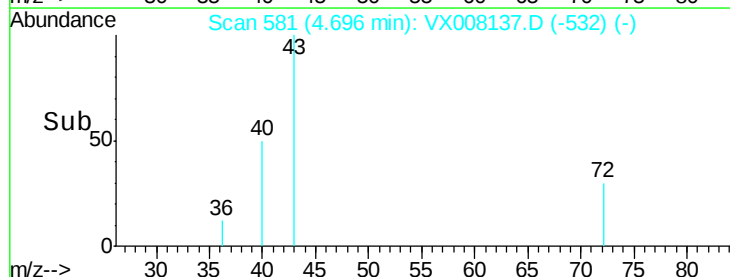
43 100

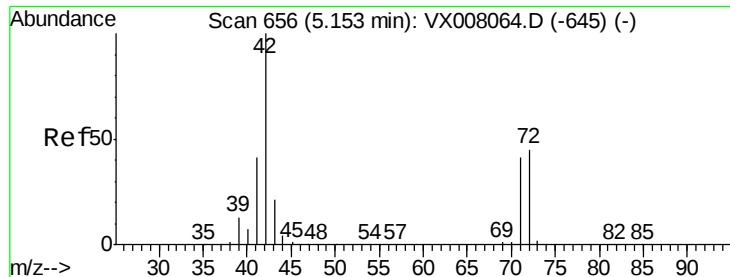
72 29.8 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.652 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

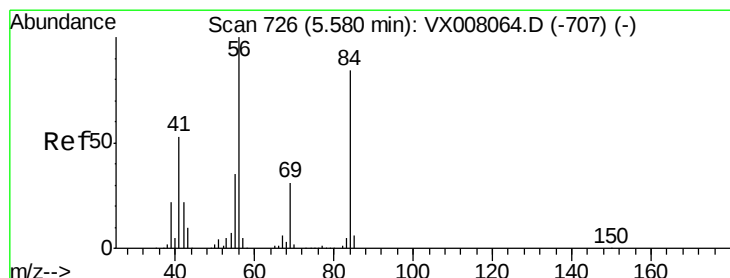
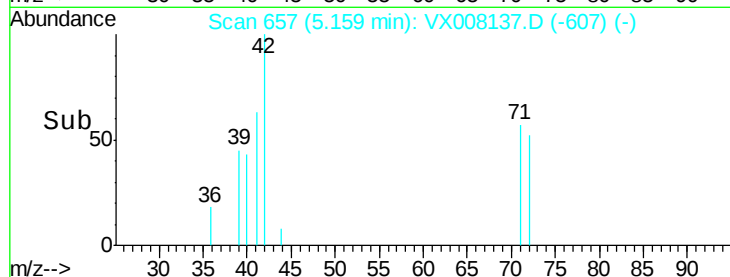
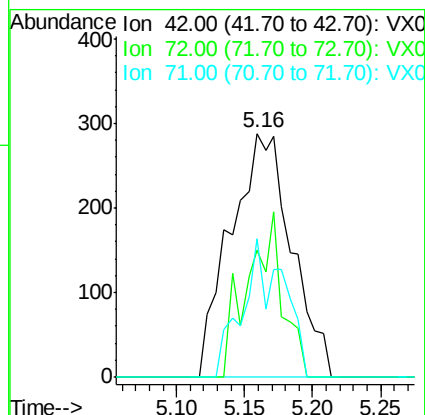
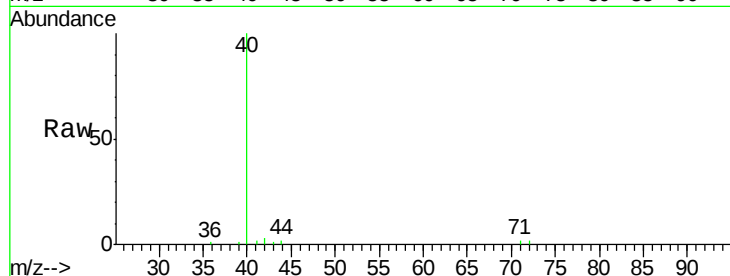
Tot Ion: 42 Resp: 902

Ion Ratio Lower Upper

42 100

72 39.2 33.8 50.6

71 21.4 31.5 47.3#



#31

Cyclohexane

Concen: 0.975 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

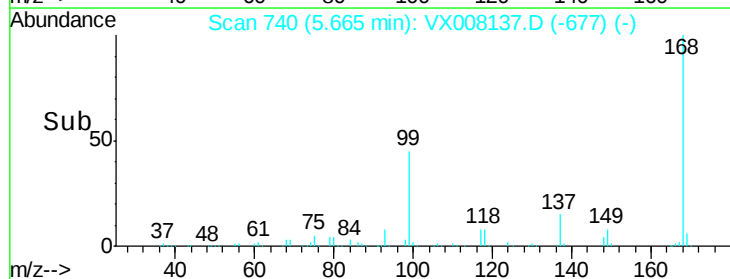
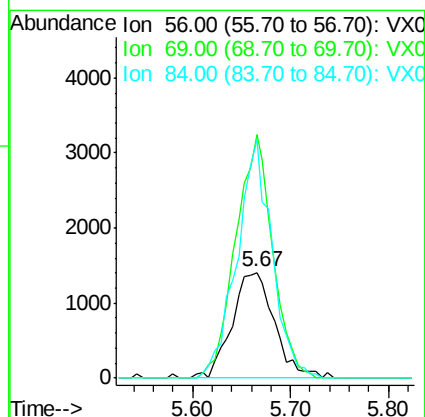
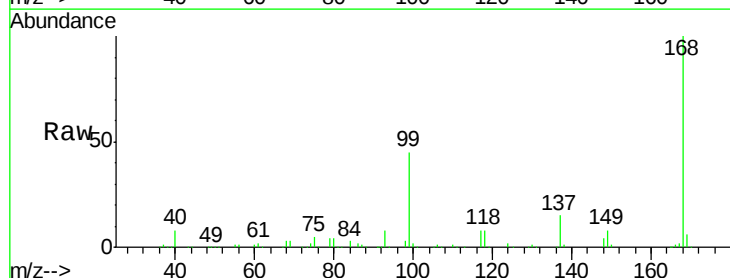
Tgt Ion: 56 Resp: 4265

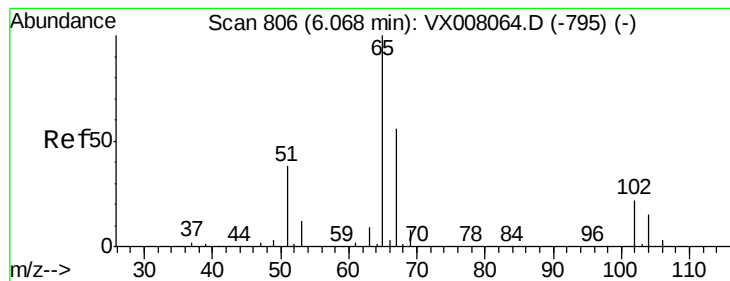
Ion Ratio Lower Upper

56 100

69 230.3 24.0 36.0#

84 225.1 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 44.362 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

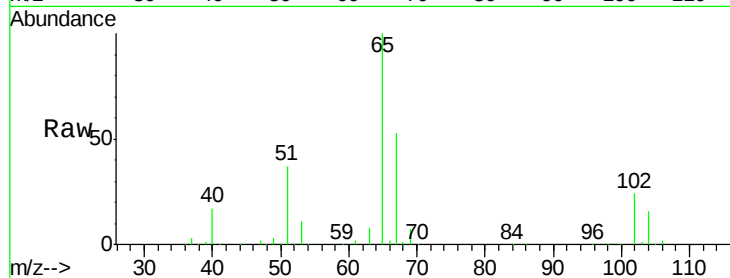
PB117440TB

Tot Ion: 65 Resp: 135739

Ion Ratio Lower Upper

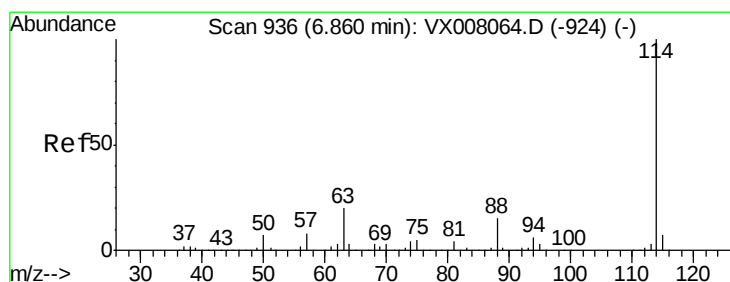
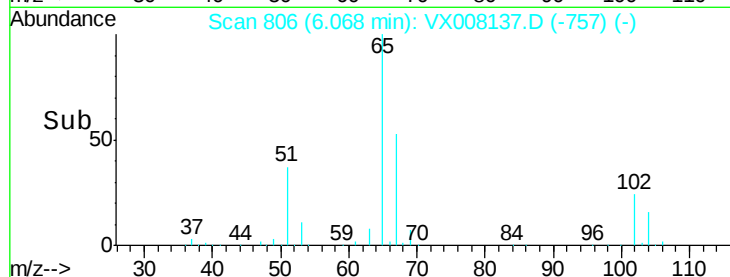
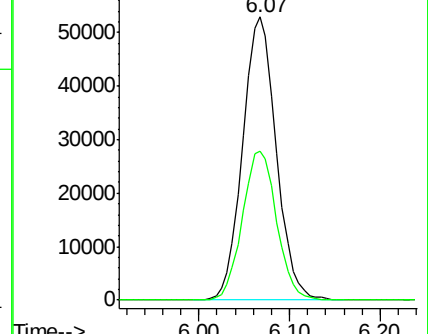
65 100

67 53.9 0.0 110.0



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: VX008137.D

Acq: 16 Mar 2019 13:34

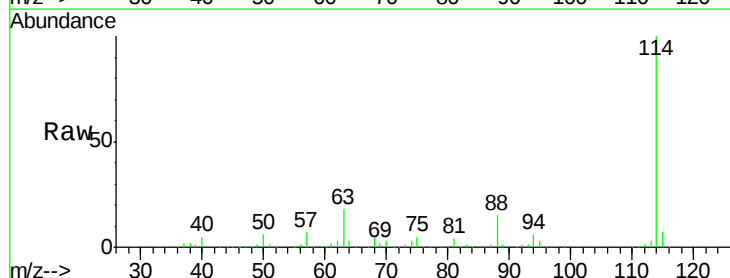
Tgt Ion: 114 Resp: 408975

Ion Ratio Lower Upper

114 100

63 18.0 0.0 39.8

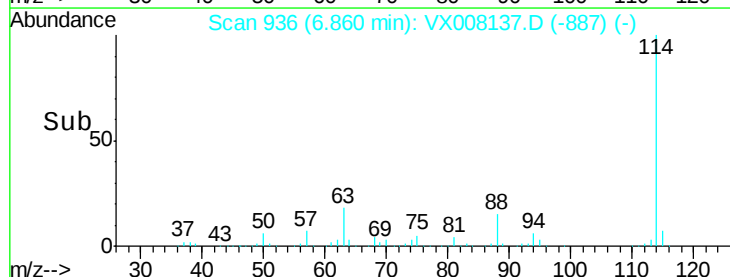
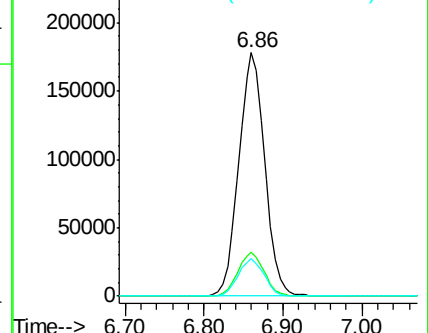
88 15.3 0.0 31.4

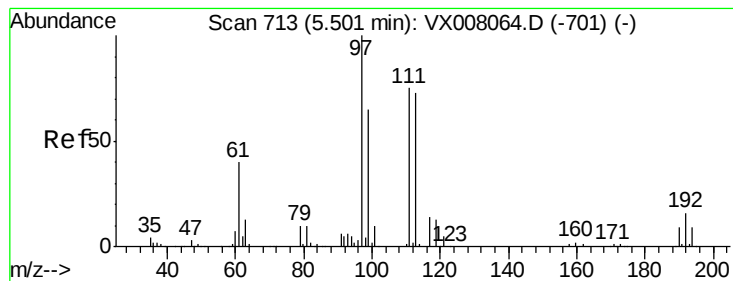


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.254 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

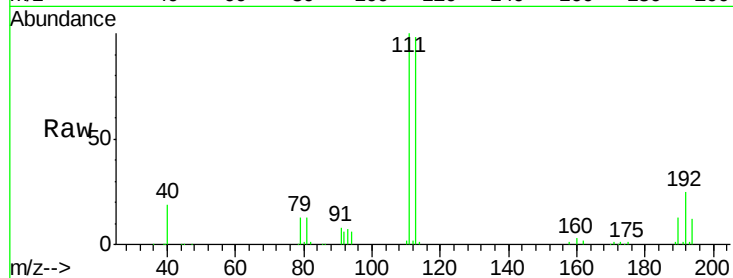
Tot Ion:113 Resp: 125146

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

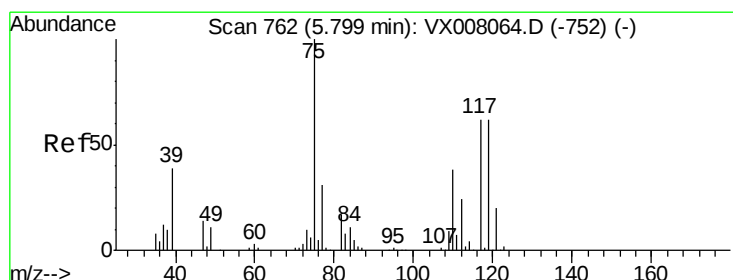
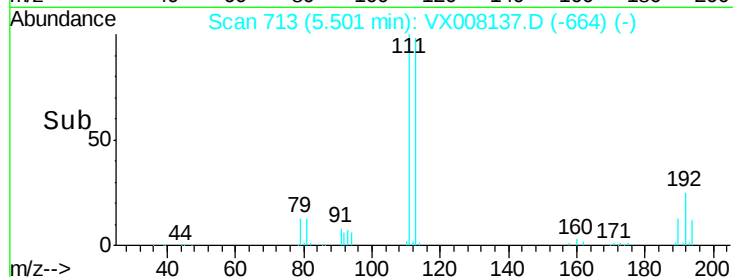
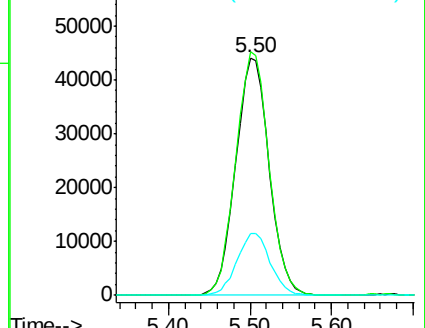
192 25.8 19.4 29.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.984 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

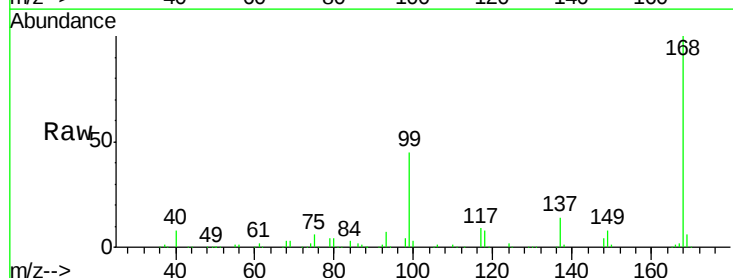
Tgt Ion: 75 Resp: 16770

Ion Ratio Lower Upper

75 100

110 9.6 18.4 55.0#

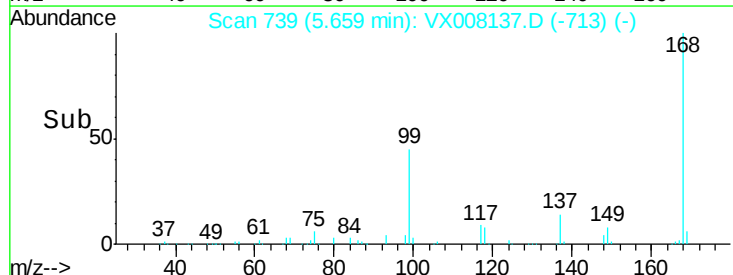
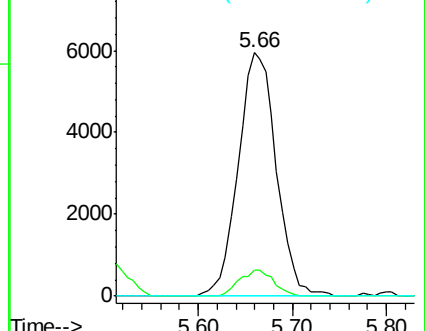
77 0.0 25.0 37.4#

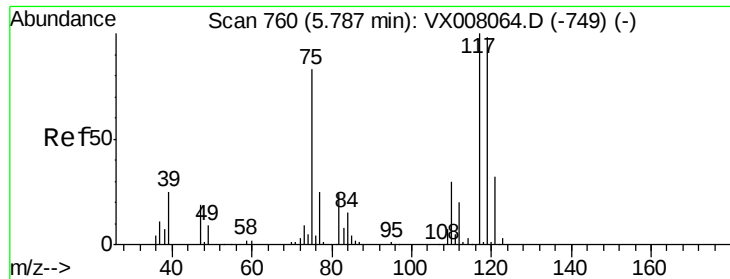


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.695 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

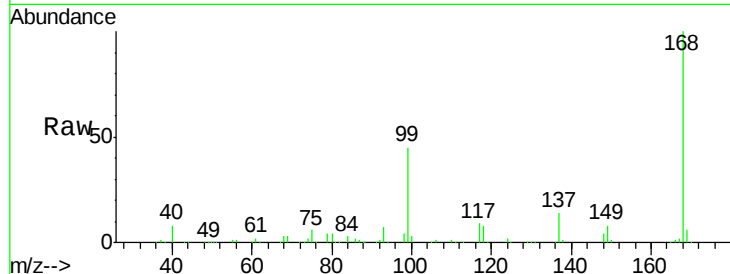
Tot Ion:117 Resp: 24919

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

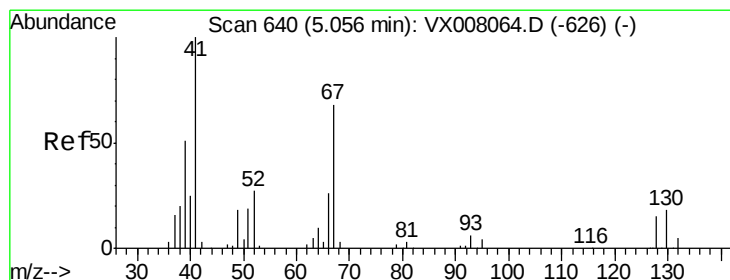
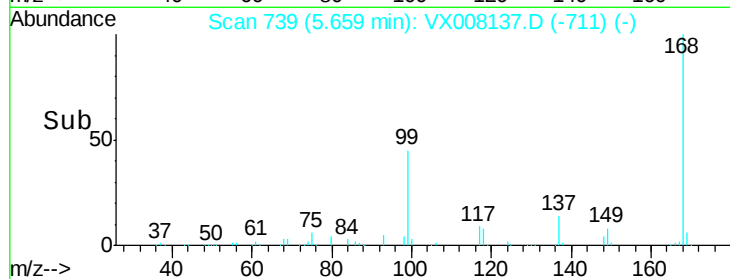
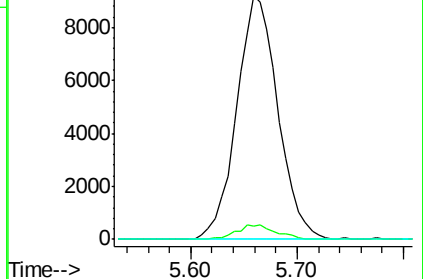
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.301 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.12 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Tgt Ion: 41 Resp: 633

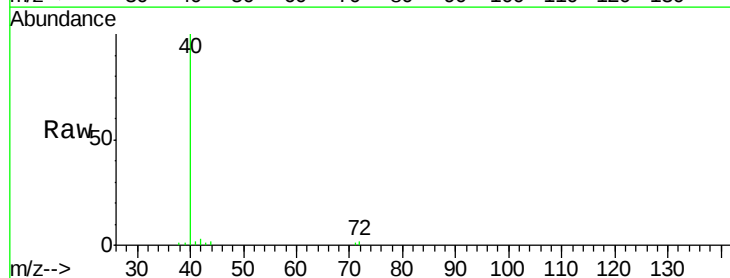
Ion Ratio Lower Upper

41 100

39 53.7 41.6 62.4

67 0.0 55.8 83.6#

52 0.0 21.7 32.5#

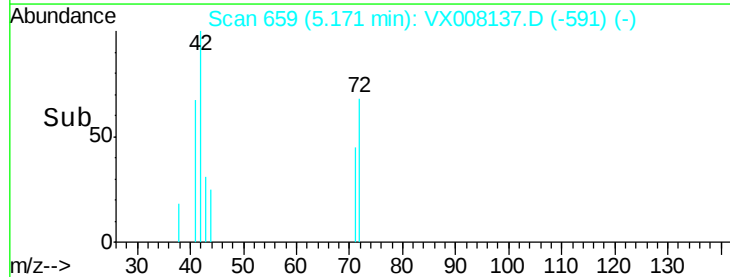
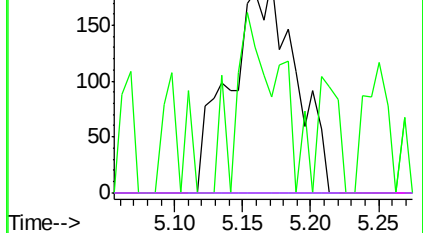


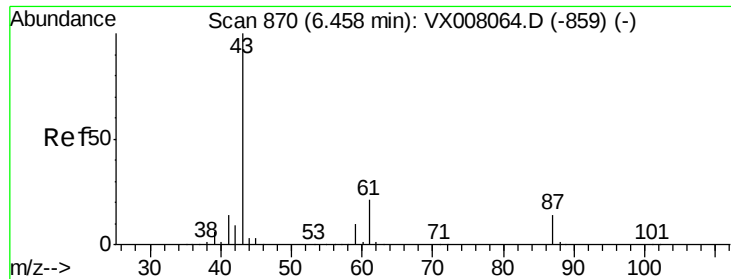
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 1.653 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

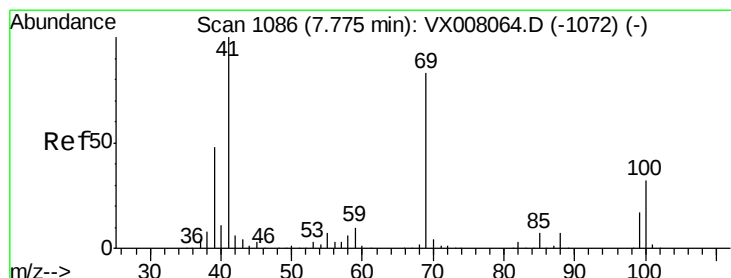
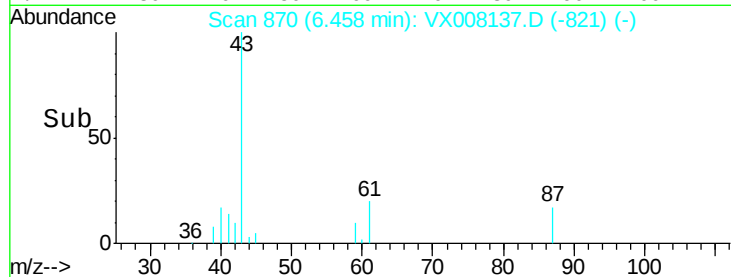
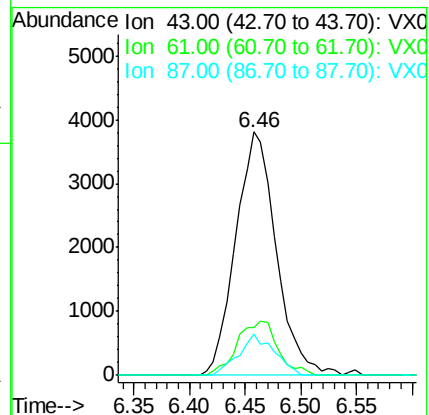
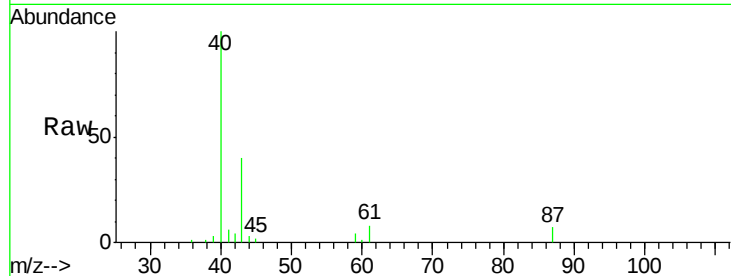
Tot Ion: 43 Resp: 9625

Ion Ratio Lower Upper

43 100

61 22.4 16.3 24.5

87 14.8 10.5 15.7



#48

Methyl methacrylate

Concen: 1.638 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

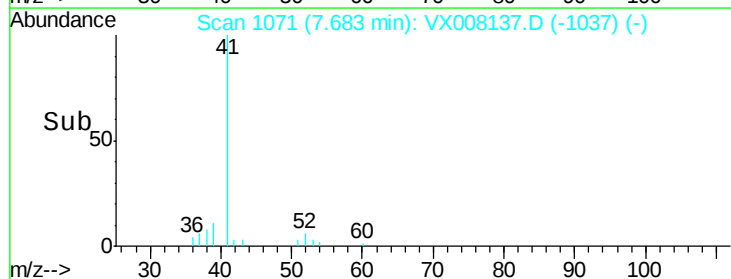
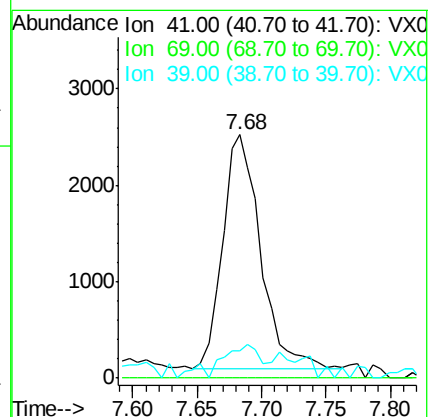
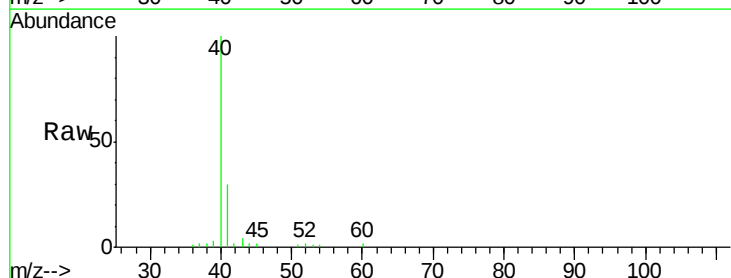
Tgt Ion: 41 Resp: 4982

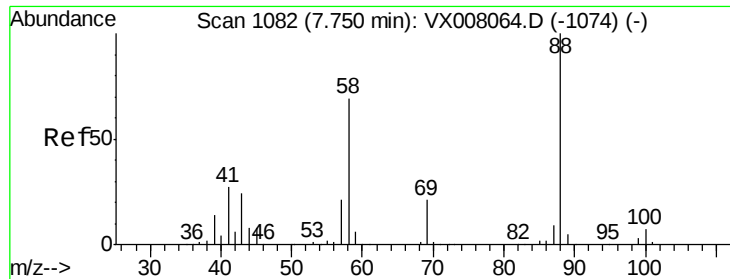
Ion Ratio Lower Upper

41 100

69 0.0 65.2 97.8#

39 0.0 39.4 59.2#





#49

1,4-Dioxane

Concen: 2.317 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.13 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

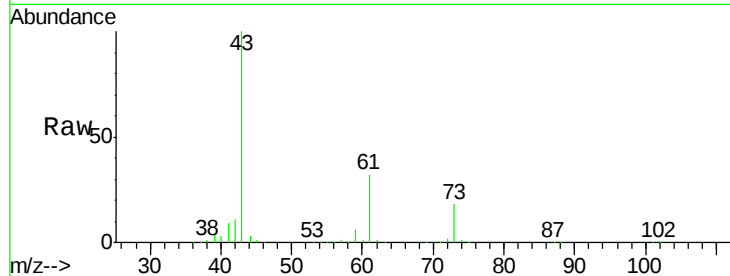
Tot Ion: 88 Resp: 152

Ion Ratio Lower Upper

88 100

43 654753.3 25.1 37.7#

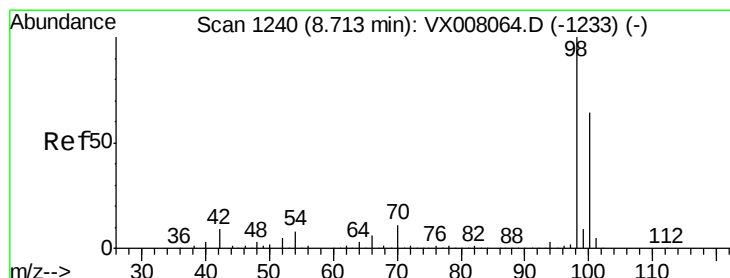
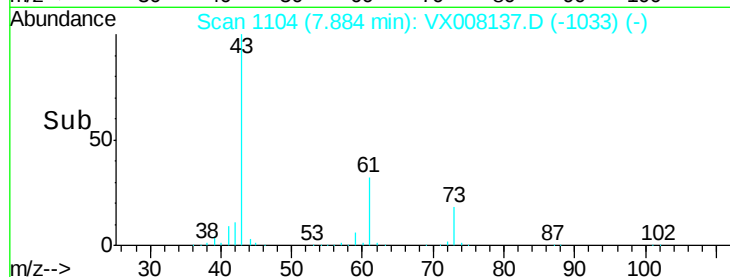
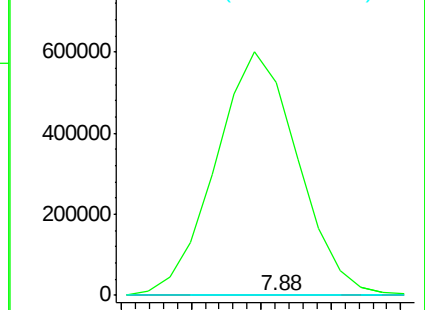
58 2866.4 57.8 86.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.399 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008137.D

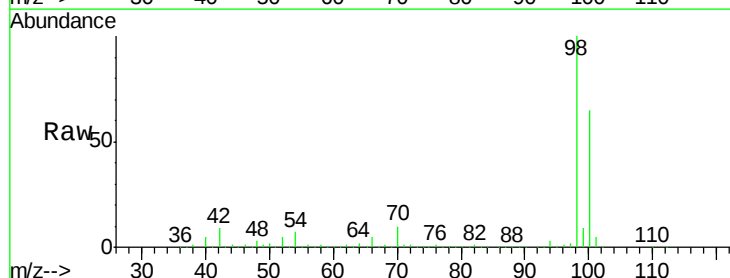
Acq: 16 Mar 2019 13:34

Tgt Ion: 98 Resp: 477401

Ion Ratio Lower Upper

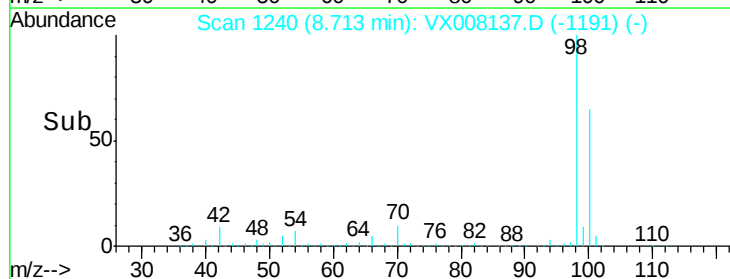
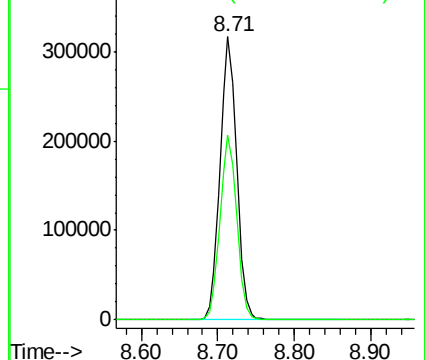
98 100

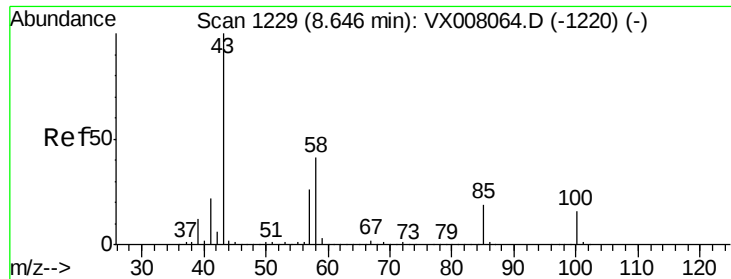
100 65.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 18.697 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleID :

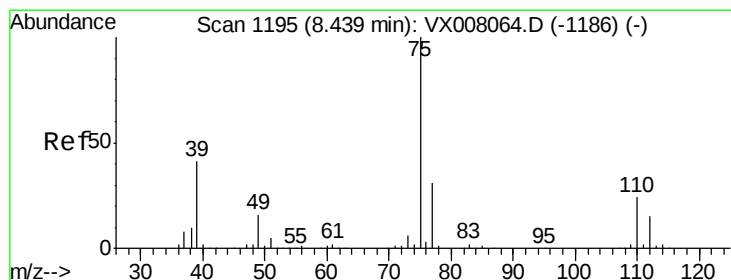
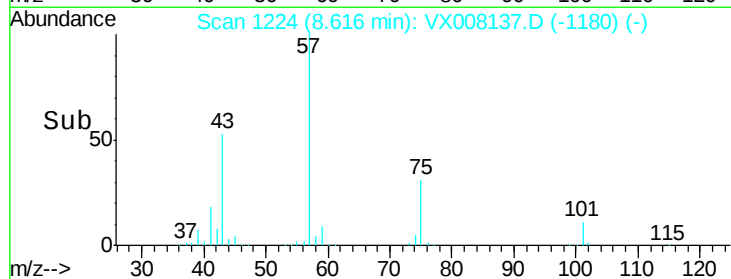
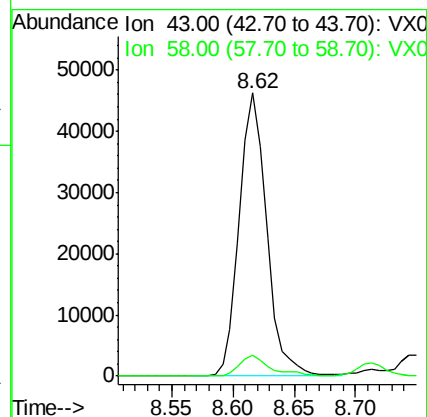
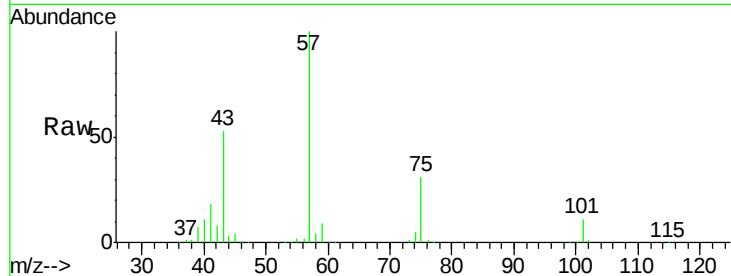
PB117440TB

Tot Ion: 43 Resp: 71761

Ion Ratio Lower Upper

43 100

58 8.5 31.3 46.9#



#54

cis-1,3-Dichloropropene

Concen: 10.083 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

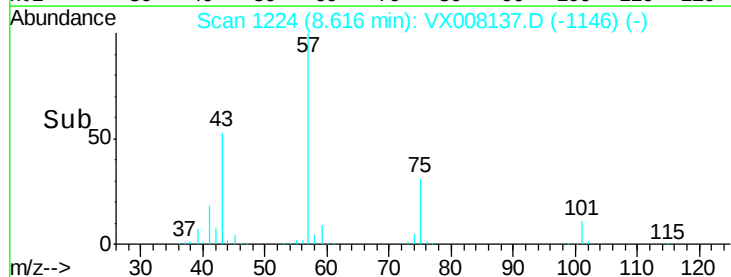
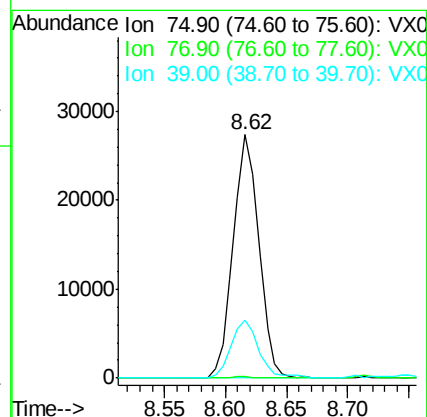
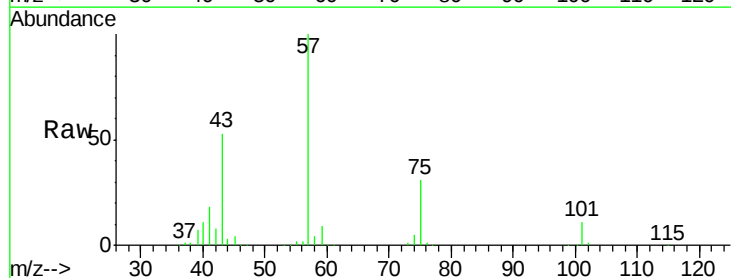
Tgt Ion: 75 Resp: 39817

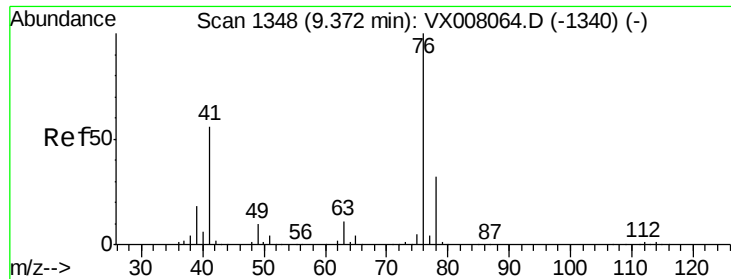
Ion Ratio Lower Upper

75 100

77 0.6 25.0 37.6#

39 24.0 36.6 54.8#





#57

1,3-Dichloropropane

Concen: 2.126 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

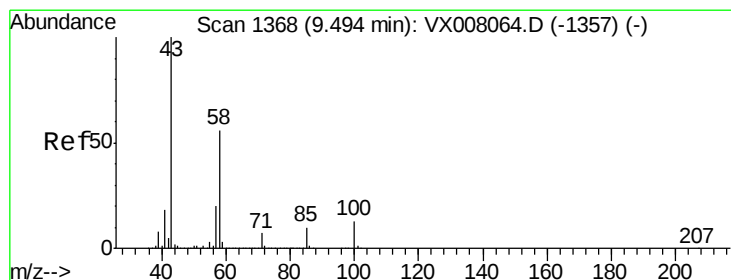
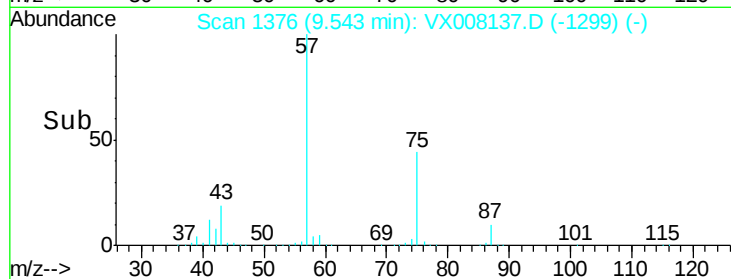
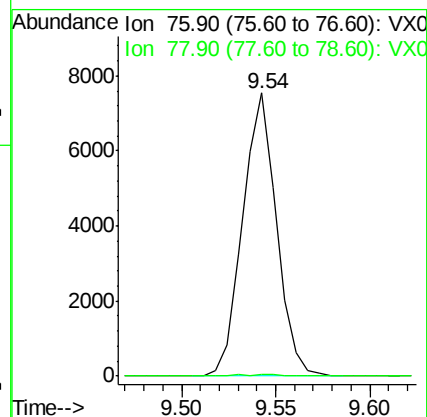
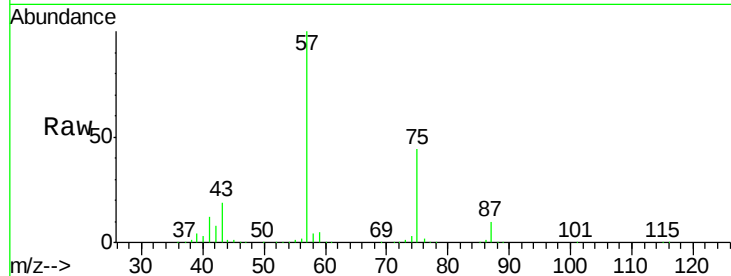
PB117440TB

Tot Ion: 76 Resp: 9388

Ion Ratio Lower Upper

76 100

78 0.7 25.5 38.3#



#59

2-Hexanone

Concen: 38.594 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX008137.D

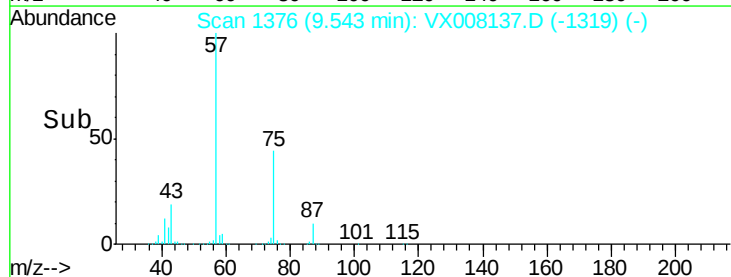
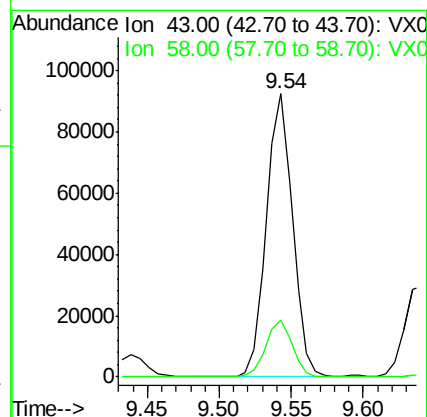
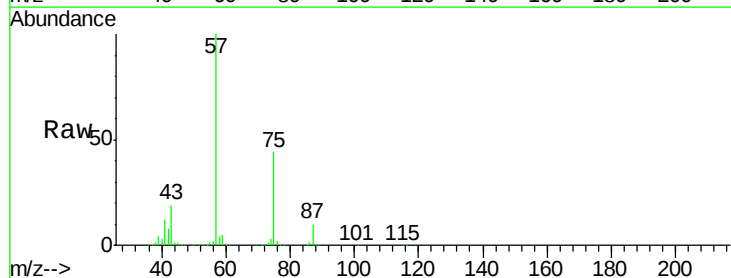
Acq: 16 Mar 2019 13:34

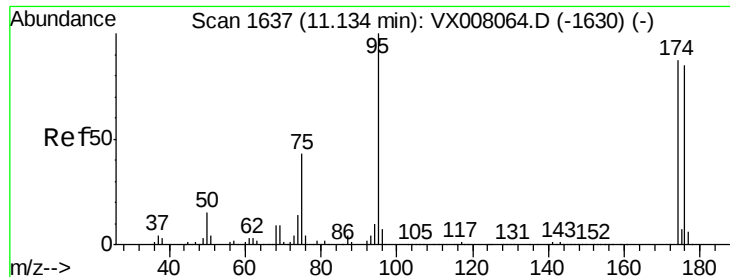
Tgt Ion: 43 Resp: 115844

Ion Ratio Lower Upper

43 100

58 20.5 27.6 82.7#

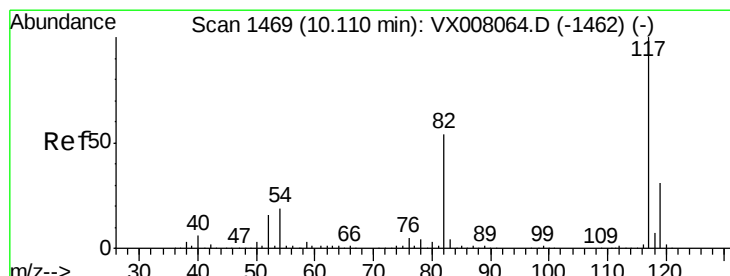
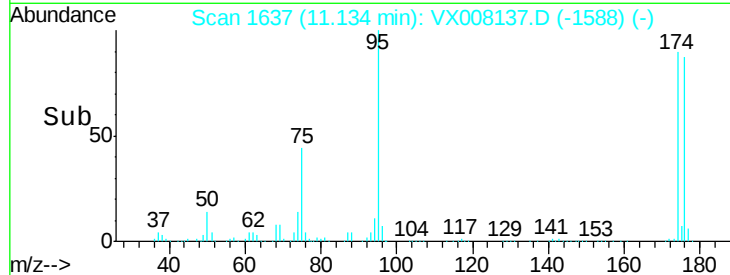
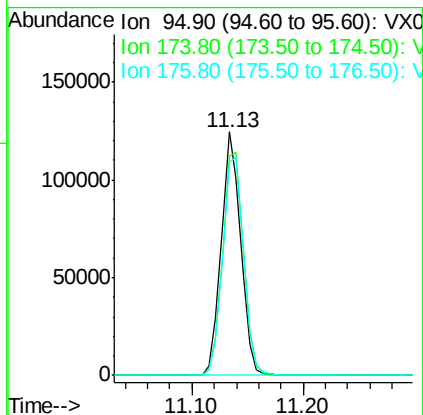
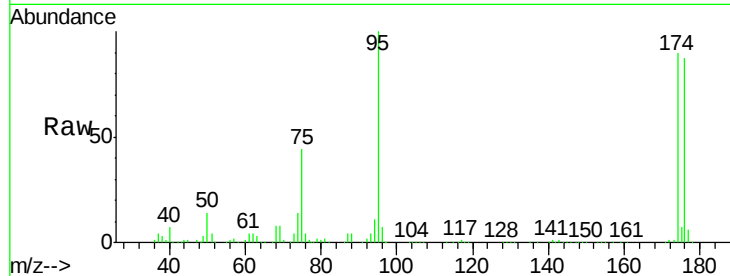




#62
4-Bromofluorobenzene
Concen: 42.659 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008137.D
Acq: 16 Mar 2019 13:34

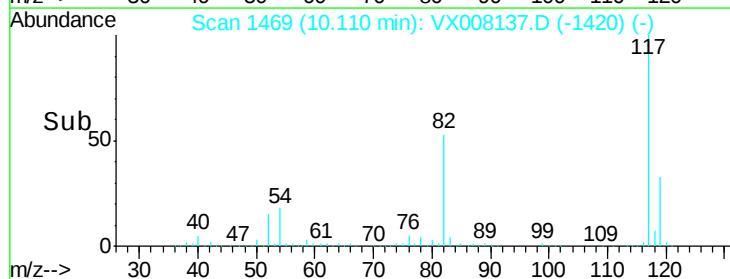
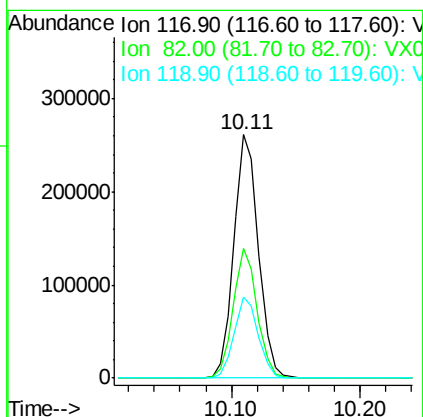
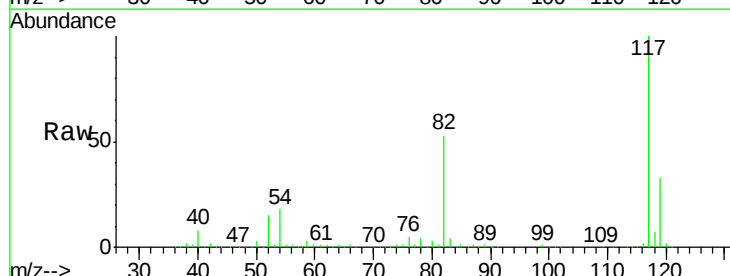
Instrument :
MSVOA_X
ClientSampleId :
PB117440TB

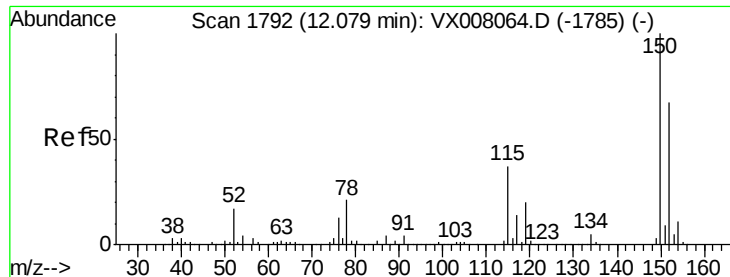
Tot Ion: 95 Resp: 150740
Ion Ratio Lower Upper
95 100
174 98.5 0.0 182.8
176 96.2 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008137.D
Acq: 16 Mar 2019 13:34

Tgt Ion: 117 Resp: 347483
Ion Ratio Lower Upper
117 100
82 53.1 44.3 66.5
119 33.1 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampled :

PB117440TB

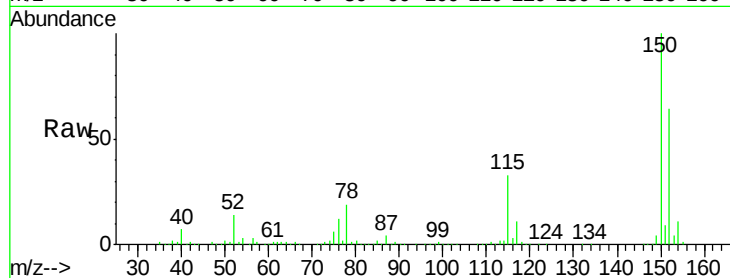
Tot Ion:152 Resp: 156076

Ion Ratio Lower Upper

152 100

115 53.9 38.6 115.7

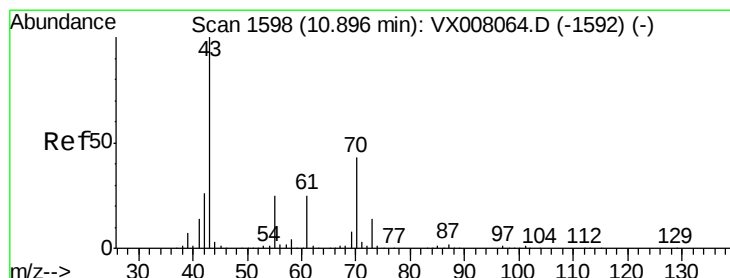
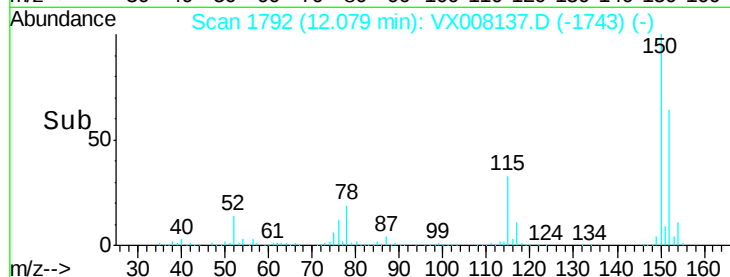
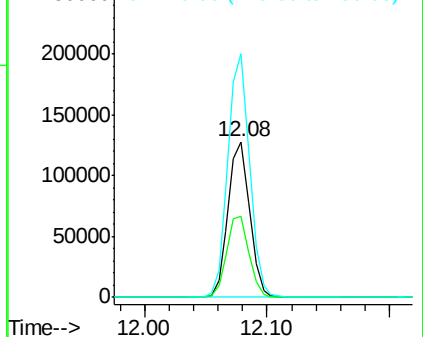
150 156.4 0.0 348.4



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: 2.941 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Tgt Ion: 43 Resp: 12403

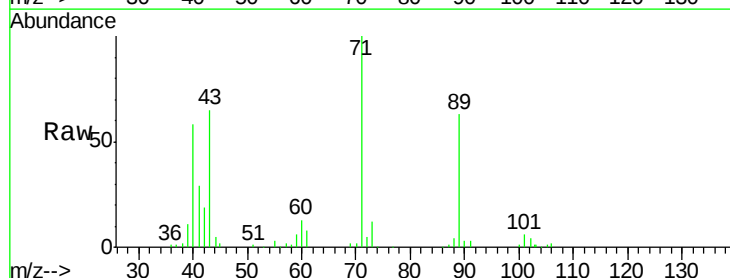
Ion Ratio Lower Upper

43 100

70 2.8 33.5 50.3#

55 4.4 19.2 28.8#

61 10.4 19.0 28.6#

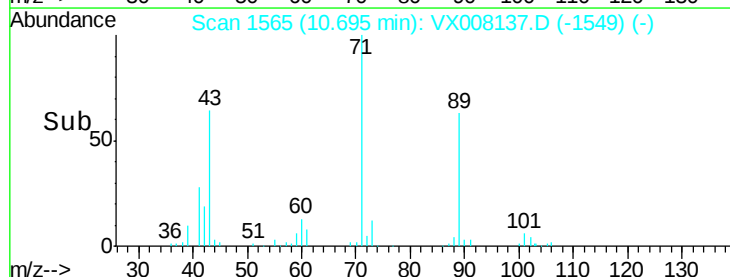
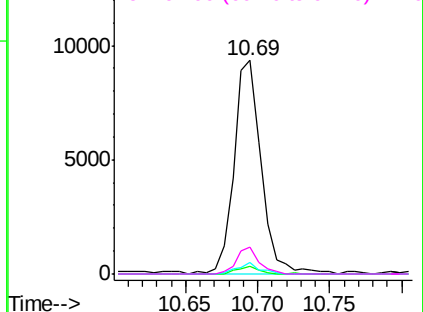


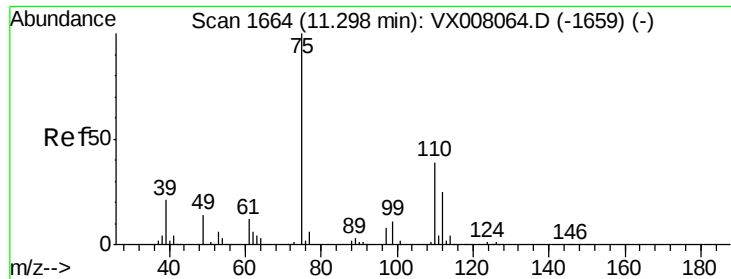
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

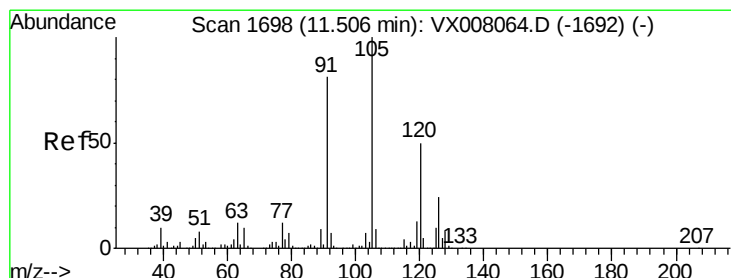
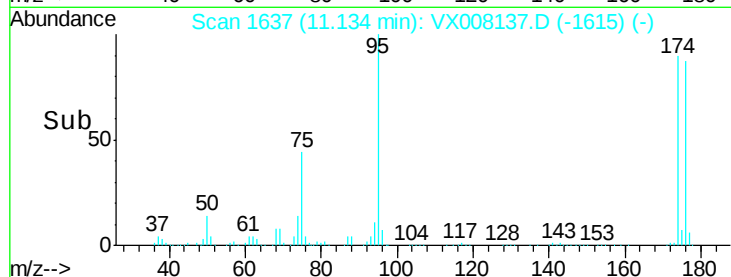
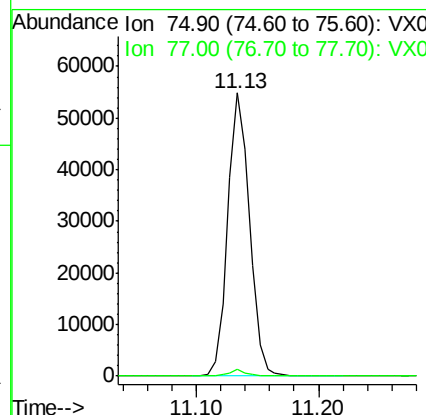
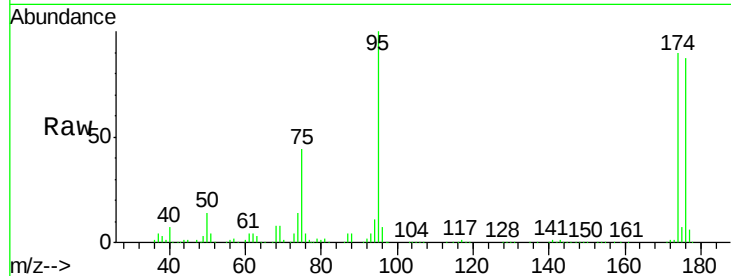




#76
 1,2,3-Trichloropropane
 Concen: 24.908 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008137.D
 Acq: 16 Mar 2019 13:34

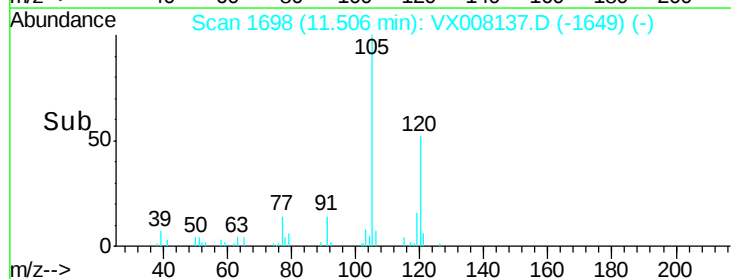
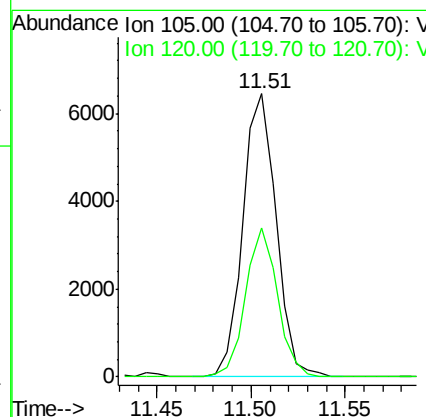
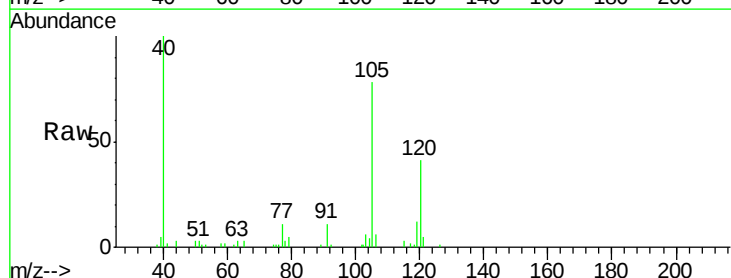
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117440TB

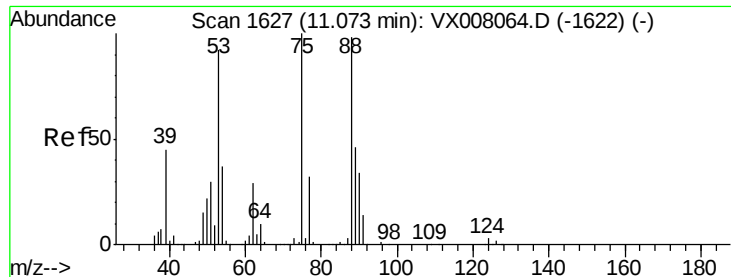
Tot Ion: 75 Resp: 67515
 Ion Ratio Lower Upper
 75 100
 77 1.8 18.9 56.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.960 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX008137.D
 Acq: 16 Mar 2019 13:34

Tgt Ion: 105 Resp: 7910
 Ion Ratio Lower Upper
 105 100
 120 50.5 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 70.879 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008137.D

Acq: 16 Mar 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

PB117440TB

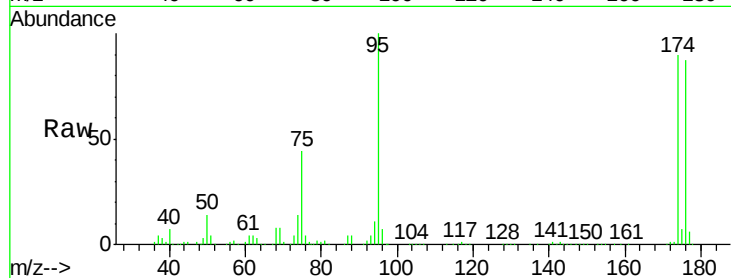
Tot Ion: 75 Resp: 67515

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

