

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010919\
 Data File : VX006970.D
 Acq On : 09 Jan 2019 17:27
 Operator : JC/MD
 Sample : K1006-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JC-03-010819-D

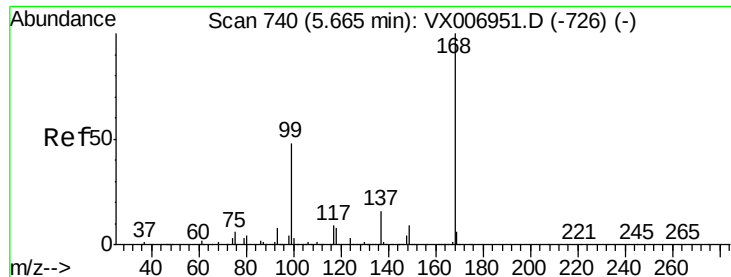
Quant Time: Jan 10 00:57:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	635705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	986061	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	917708	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	448152	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	339436	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
35) Dibromofluoromethane	5.50	113	300315	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	8.71	98	1171540	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.13	95	418573	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	23473	5.586	ug/l	98
13) Acrolein	2.29	56	804	4.259	ug/l #	35
14) Allyl chloride	2.86	41	14819	1.480	ug/l #	28
16) Acetone	2.45	43	69846	21.266	ug/l	96
18) Methyl Acetate	2.78	43	15303	1.609	ug/l	94
20) Methylene Chloride	2.86	84	425554	68.329	ug/l	98
25) 2-Butanone	4.70	43	5213	1.109	ug/l	97
29) Tetrahydrofuran	5.15	42	2365	0.774	ug/l #	53
31) Cyclohexane	5.66	56	10556	1.127	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	40140	4.682	ug/l #	48
38) Carbon Tetrachloride	5.67	117	57304	6.644	ug/l #	14
43) Isopropyl Acetate	6.47	43	17882	1.233	ug/l	99
48) Methyl methacrylate	7.68	41	11816	1.587	ug/l #	13
49) 1,4-Dioxane	7.76	88	219	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	74236	7.968	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	37796	3.923	ug/l #	60
59) 2-Hexanone	9.54	43	124599	17.549	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	197587	21.757	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197587	64.474	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	6935	0.261	ug/l	96
90) Hexachloroethane	12.60	117	609	3.036	ug/l #	10
95) Naphthalene	13.83	128	28435	0.881	ug/l	95

(#) = 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: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

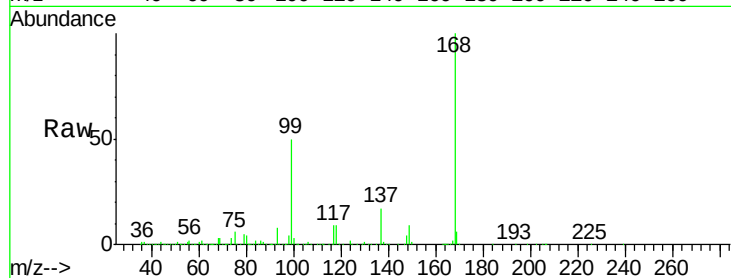
JC-03-010819-D

Tot Ion:168 Resp: 635705

Ion Ratio Lower Upper

168 100

99 49.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

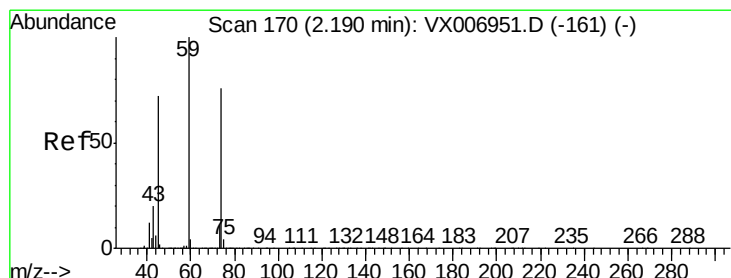
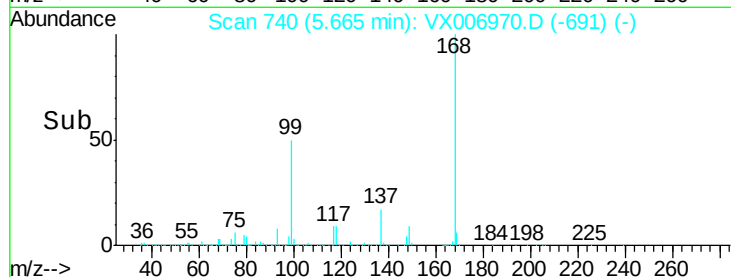
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 5.586 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX006970.D

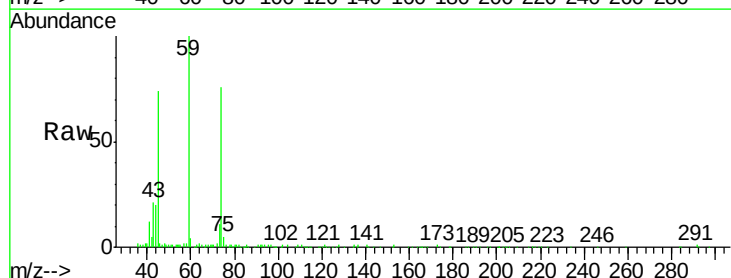
Acq: 09 Jan 2019 17:27

Tgt Ion: 74 Resp: 23473

Ion Ratio Lower Upper

74 100

45 90.3 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

15000

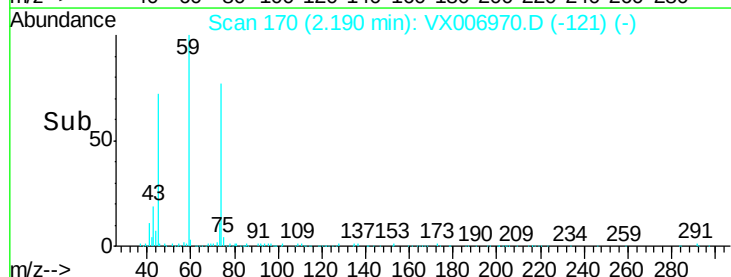
10000

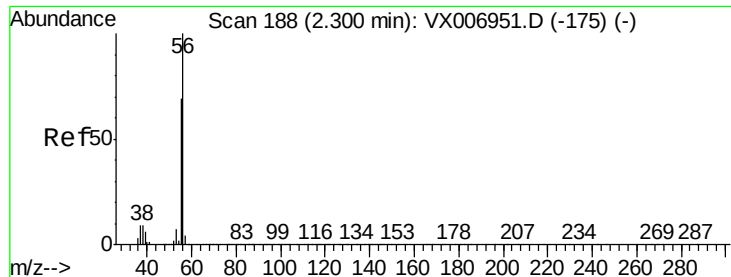
5000

0

Time-->

2.10 2.15 2.20 2.25





#13

Acrolein

Concen: 4.259 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

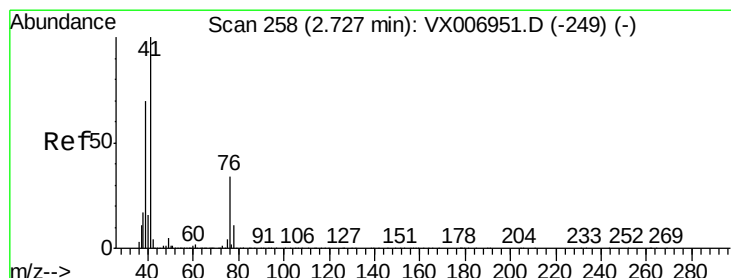
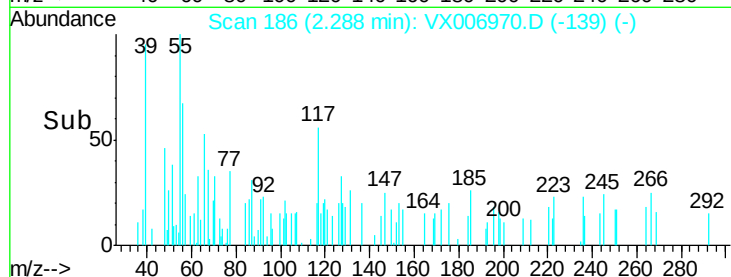
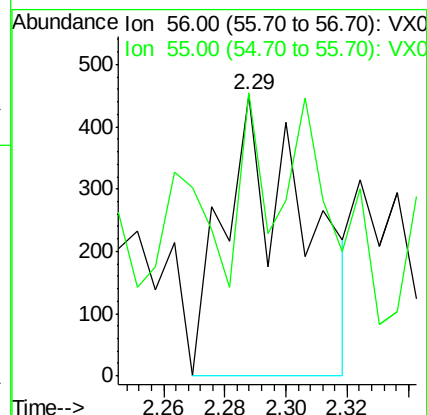
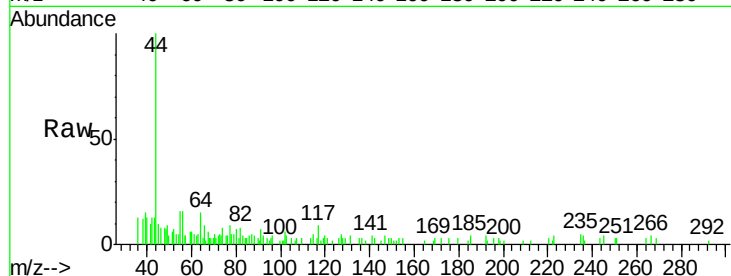
JC-03-010819-D

Tot Ion: 56 Resp: 804

Ion Ratio Lower Upper

56 100

55 18.2 58.2 87.4#



#14

Allyl chloride

Concen: 1.480 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.13 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

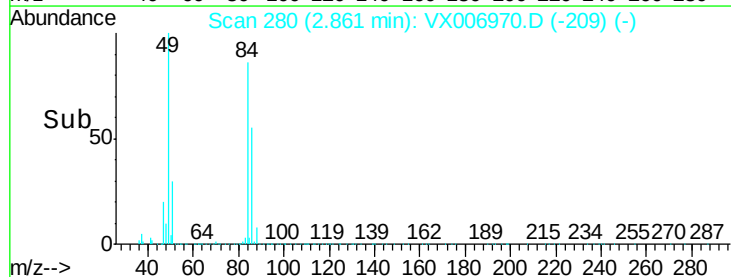
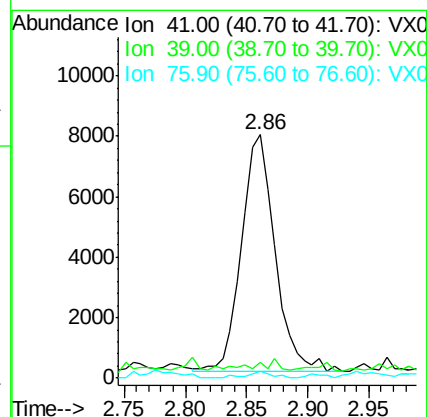
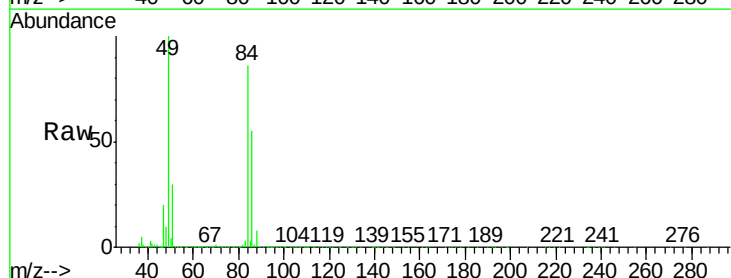
Tgt Ion: 41 Resp: 14819

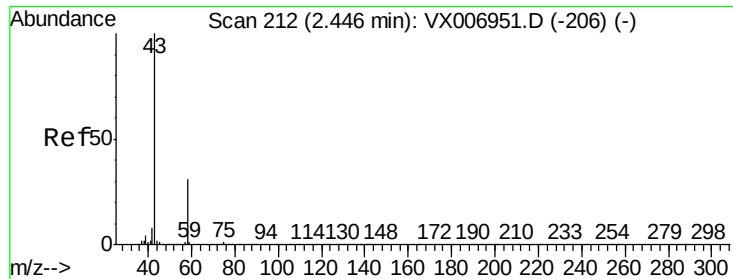
Ion Ratio Lower Upper

41 100

39 2.1 53.6 80.4#

76 2.1 27.4 41.2#

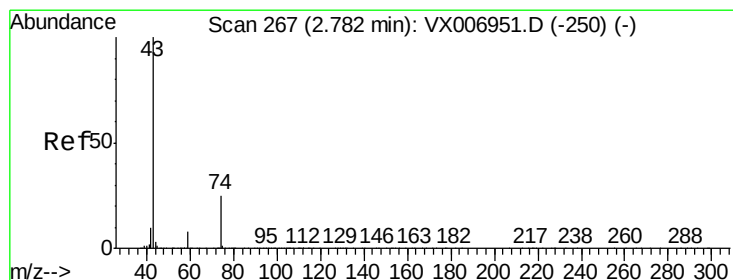
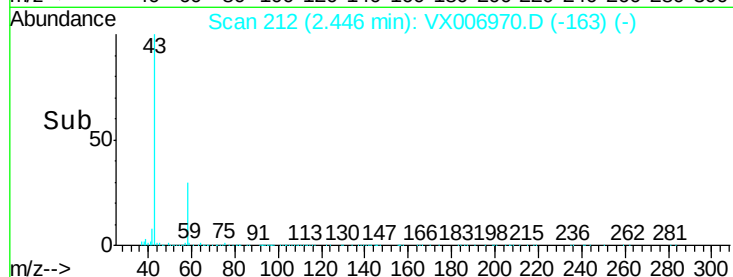
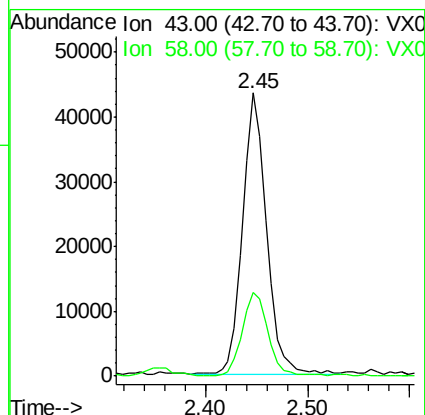
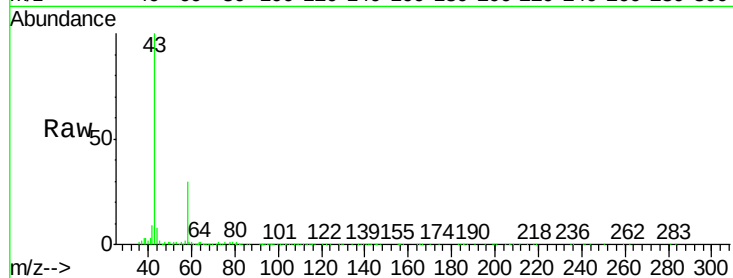




#16
Acetone
Concen: 21.266 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

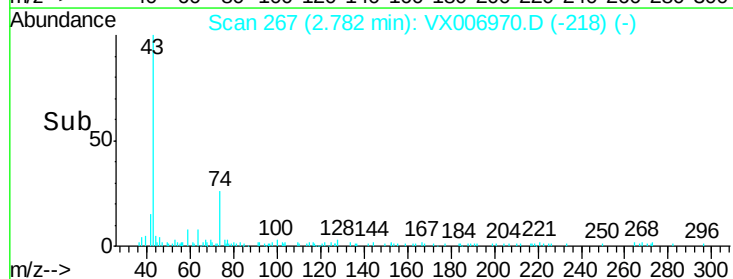
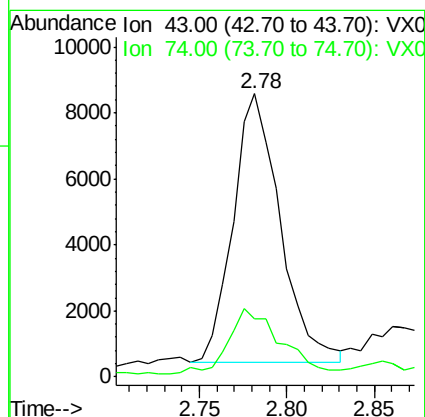
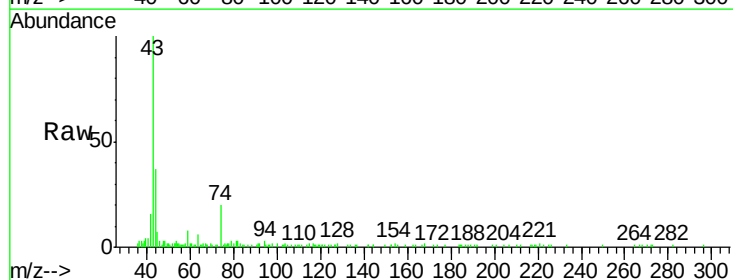
Instrument :
MSVOA_X
ClientSampleId :
JC-03-010819-D

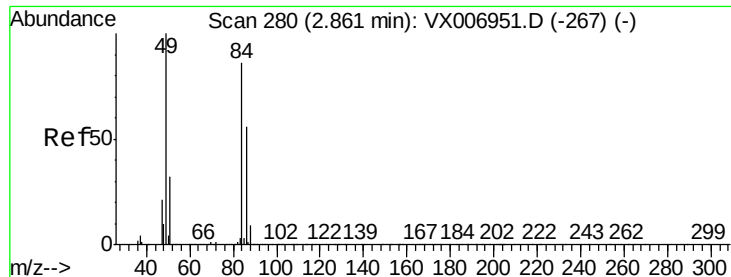
Tot Ion: 43 Resp: 69846
Ion Ratio Lower Upper
43 100
58 29.1 25.0 37.6



#18
Methyl Acetate
Concen: 1.609 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

Tgt Ion: 43 Resp: 15303
Ion Ratio Lower Upper
43 100
74 26.3 18.6 28.0





#20

Methylene Chloride

Concen: 68.329 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

JC-03-010819-D

Tot Ion: 84 Resp: 425554

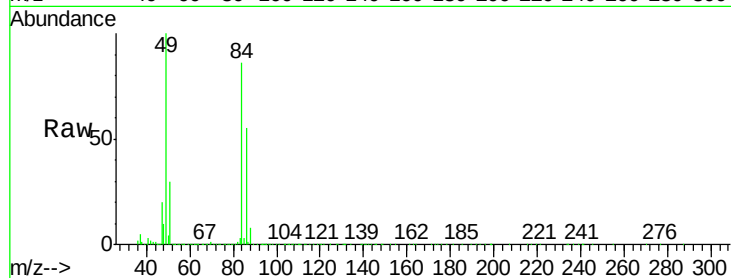
Ion Ratio Lower Upper

84 100

49 116.8 91.8 137.6

51 35.1 28.5 42.7

86 63.9 50.2 75.2

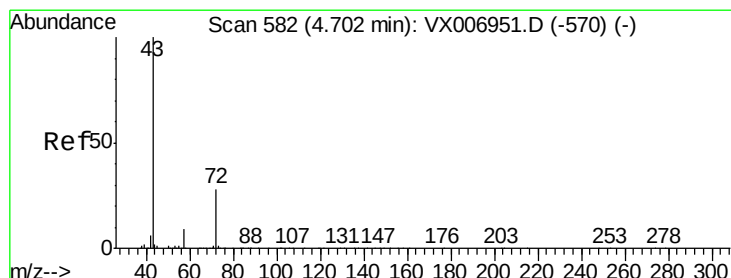
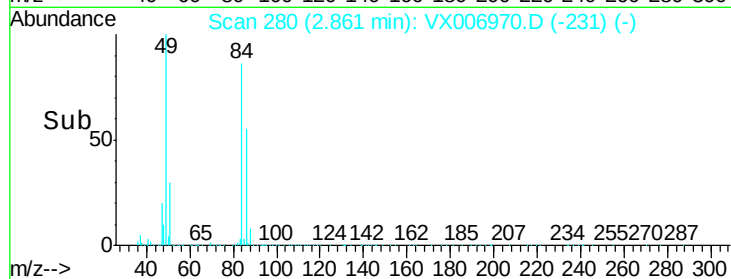
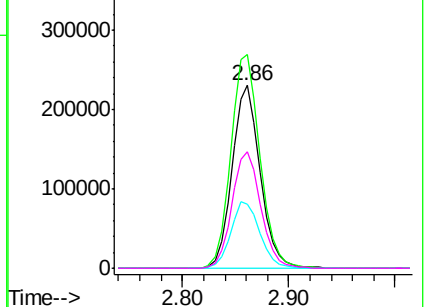


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.109 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006970.D

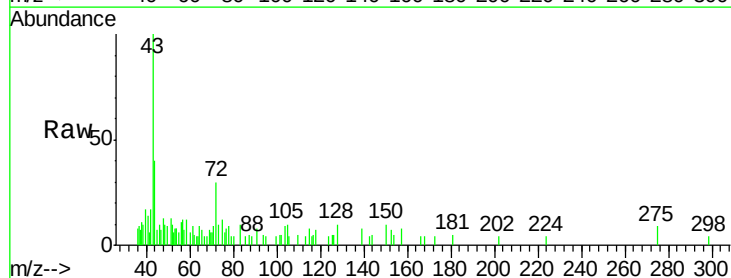
Acq: 09 Jan 2019 17:27

Tgt Ion: 43 Resp: 5213

Ion Ratio Lower Upper

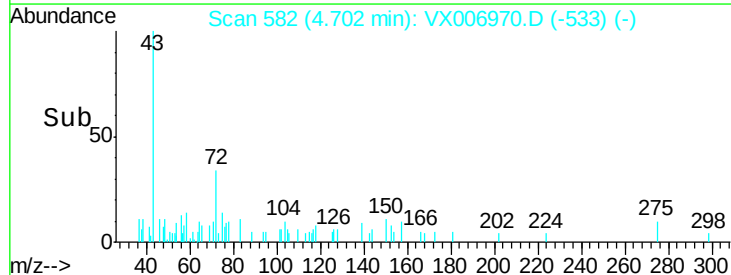
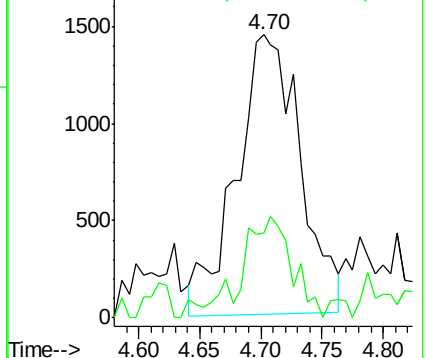
43 100

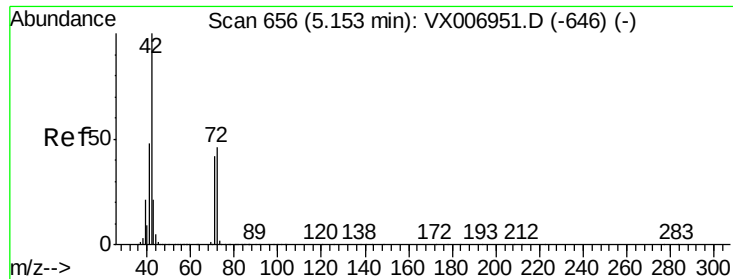
72 26.6 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

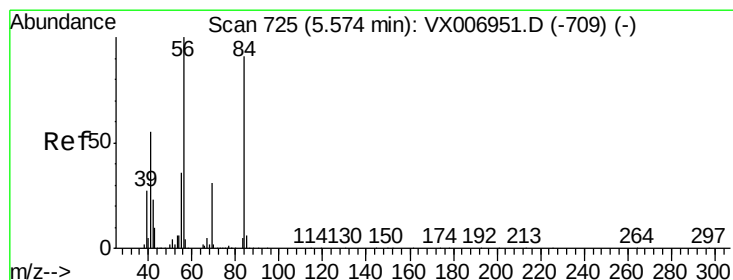
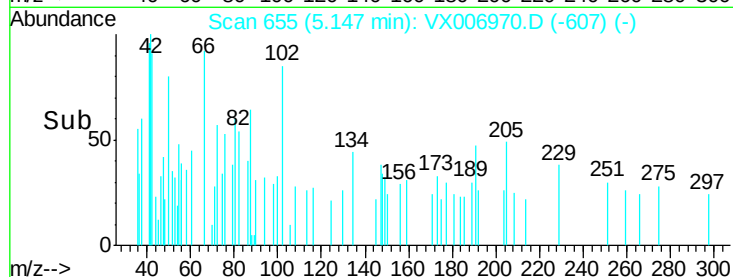
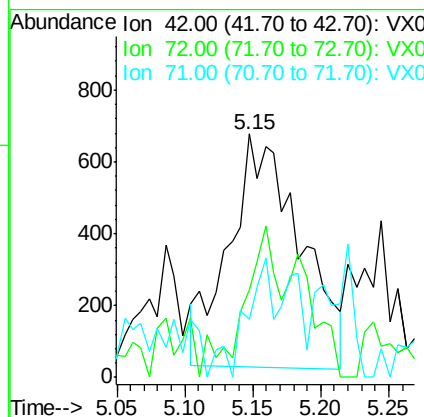
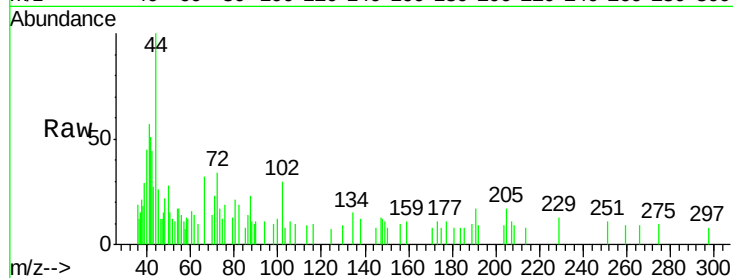




#29
Tetrahydrofuran
Concen: 0.774 ug/l
RT: 5.15 min Scan# 655
Delta R.T. -0.01 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

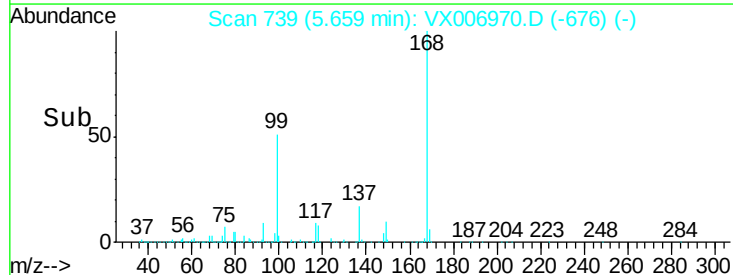
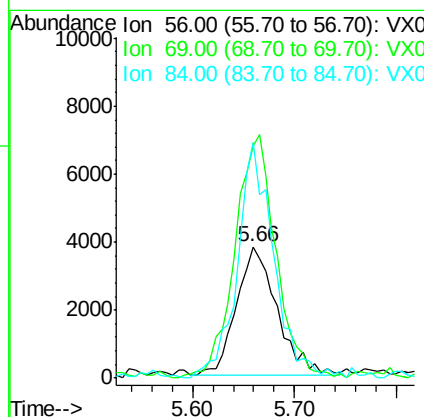
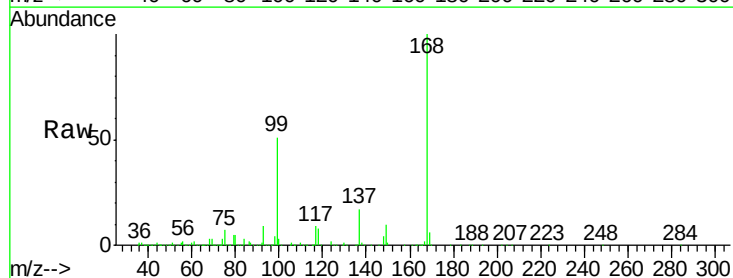
Instrument :
MSVOA_X
ClientSampleId :
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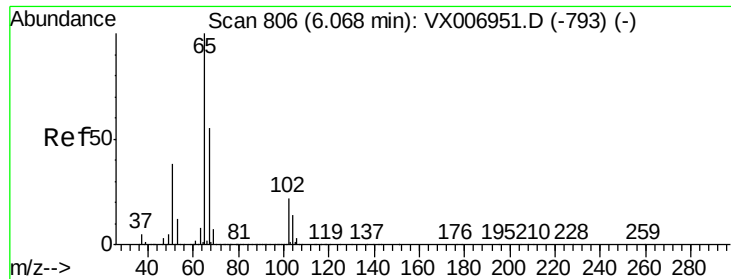
Tot Ion: 42 Resp: 2365
Ion Ratio Lower Upper
42 100
72 20.8 38.9 58.3#
71 9.8 36.2 54.4#



#31
Cyclohexane
Concen: 1.127 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

Tgt Ion: 56 Resp: 10556
Ion Ratio Lower Upper
56 100
69 177.3 24.4 36.6#
84 184.0 70.0 105.0#

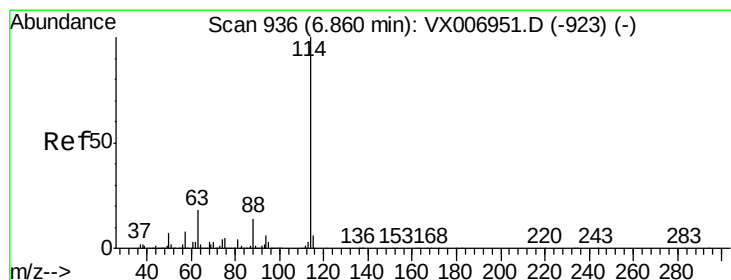
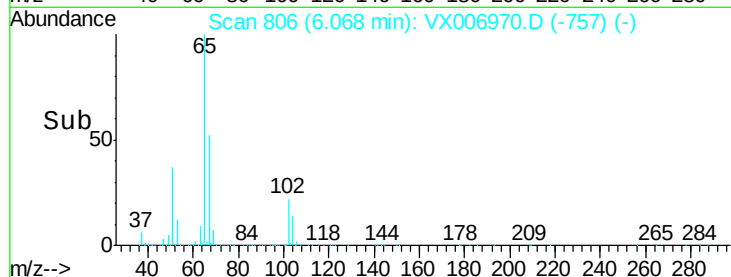
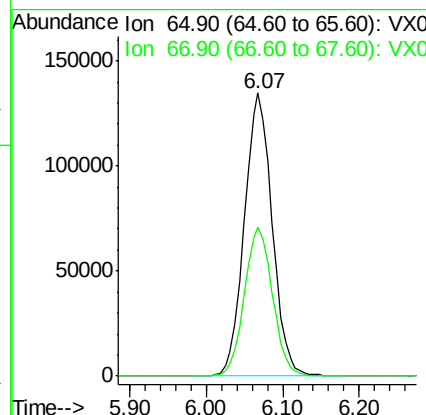
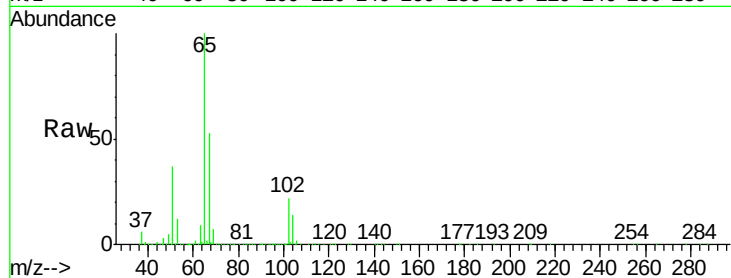




#33
 1,2-Dichloroethane-d4
 Concen: 51.092 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006970.D
 Acq: 09 Jan 2019 17:27

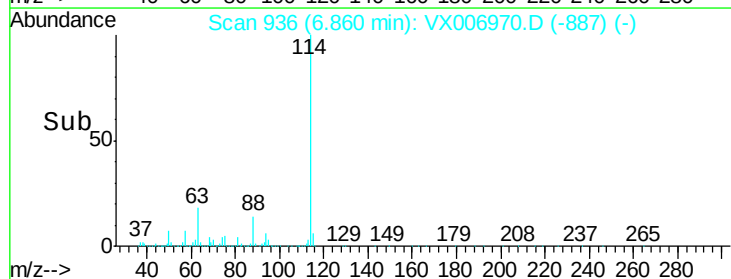
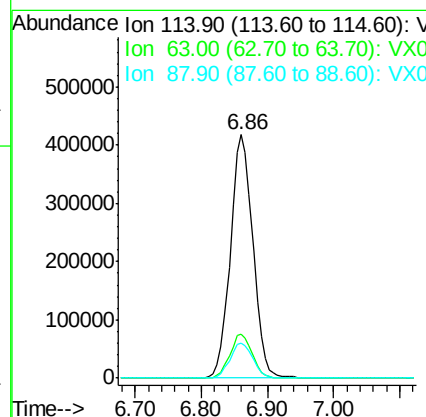
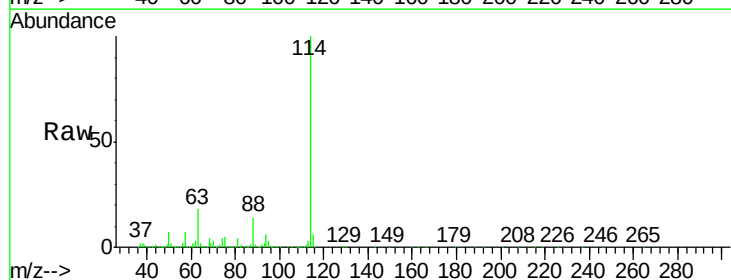
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 ClientSampleId :
 JC-03-010819-D

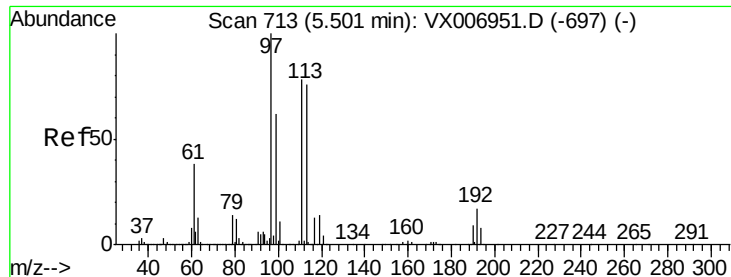
Tot Ion: 65 Resp: 339436
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006970.D
 Acq: 09 Jan 2019 17:27

Tgt Ion: 114 Resp: 986061
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 34.8
 88 14.4 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.558 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

JC-03-010819-D

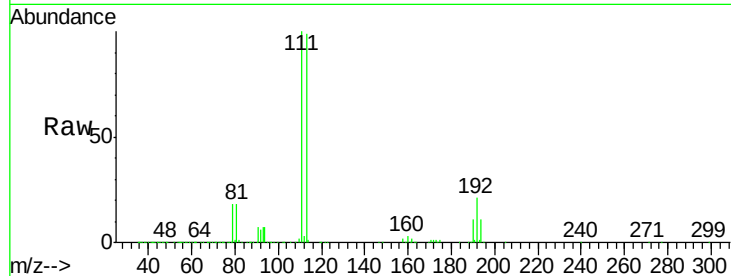
Tot Ion:113 Resp: 300315

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

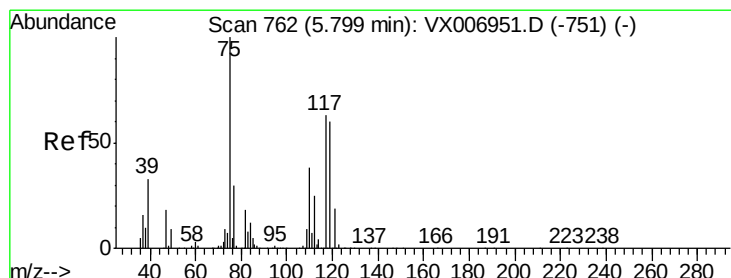
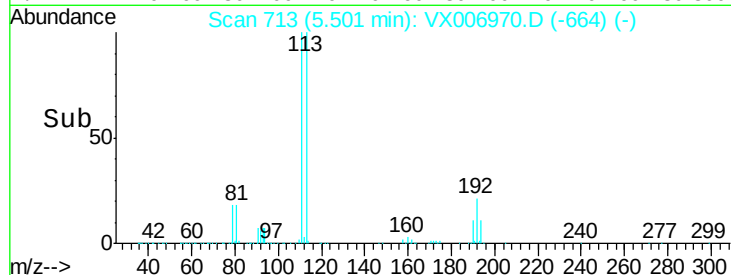
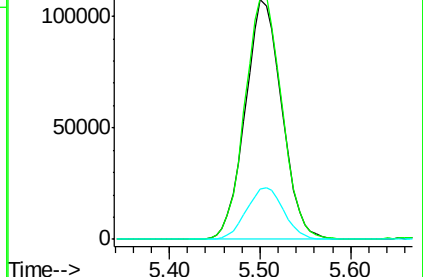
192 22.0 16.7 25.1



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: 4.682 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

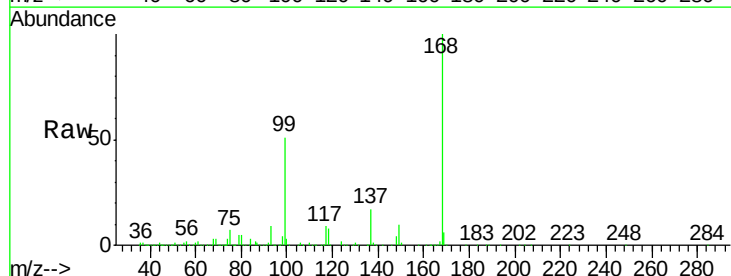
Tgt Ion: 75 Resp: 40140

Ion Ratio Lower Upper

75 100

110 9.8 20.2 60.5#

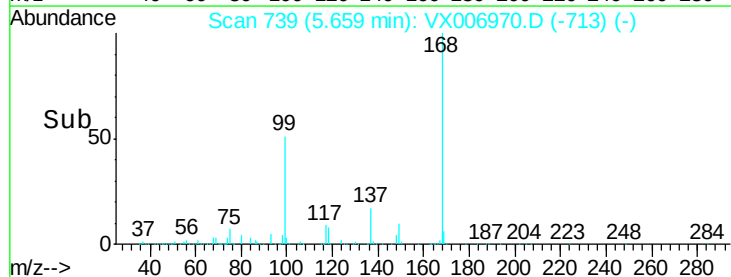
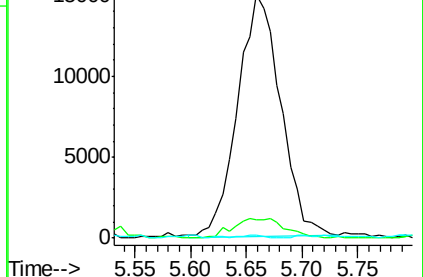
77 0.6 24.8 37.2#

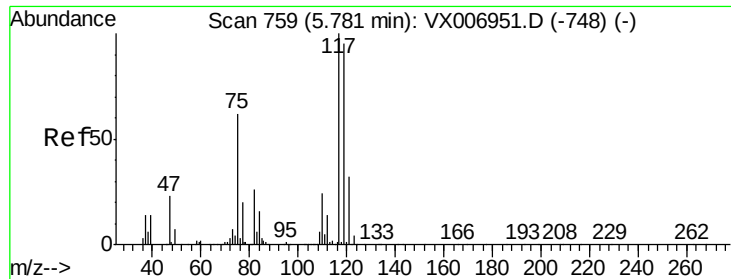


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

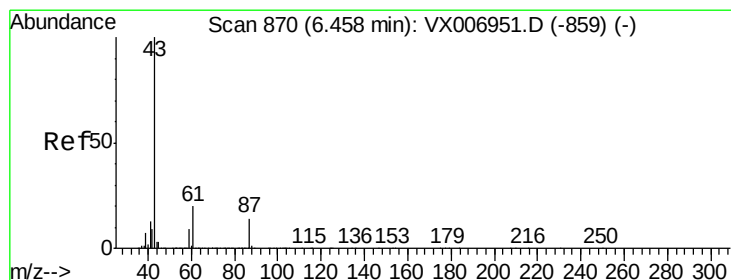
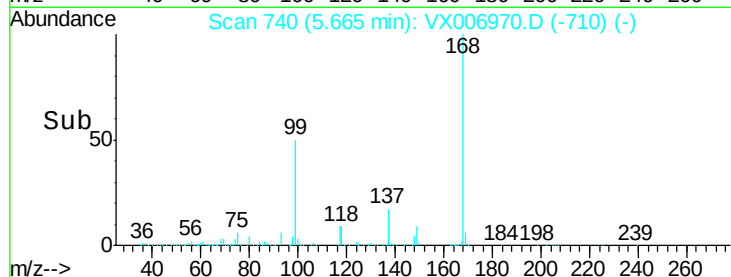
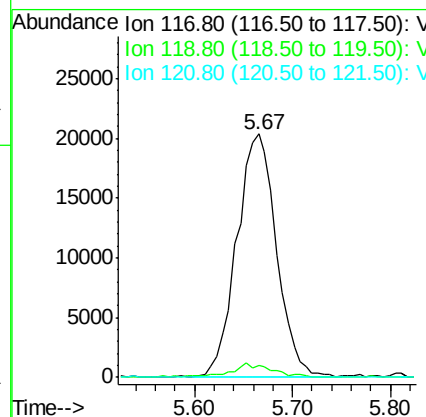
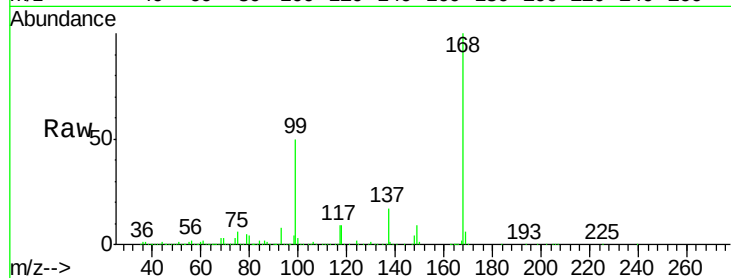




#38
Carbon Tetrachloride
Concen: 6.644 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

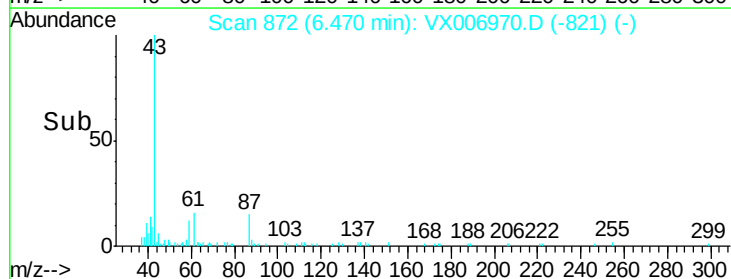
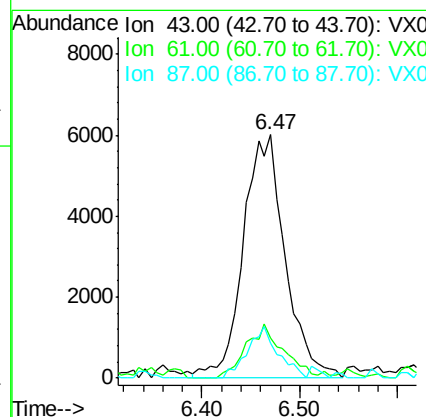
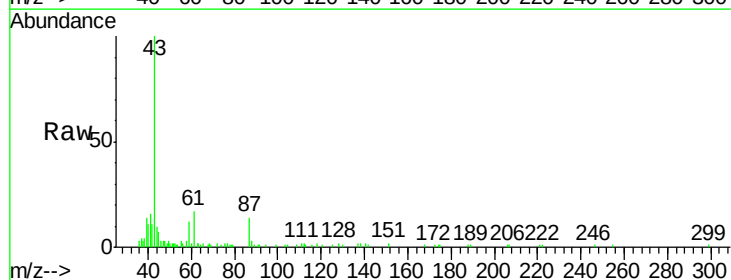
Instrument :
MSVOA_X
ClientSampleId :
JC-03-010819-D

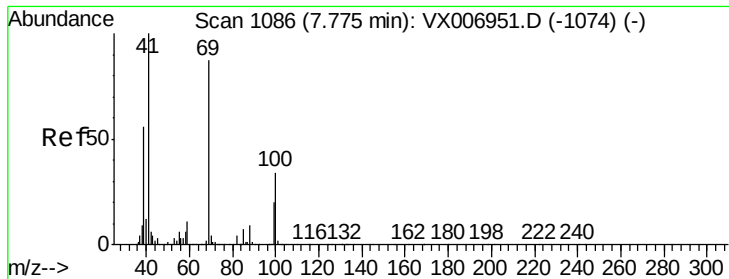
Tot Ion:117 Resp: 57304
Ion Ratio Lower Upper
117 100
119 4.7 79.4 119.2#
121 0.3 24.0 36.0#



#43
Isopropyl Acetate
Concen: 1.233 ug/l
RT: 6.47 min Scan# 872
Delta R.T. 0.01 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

Tgt Ion: 43 Resp: 17882
Ion Ratio Lower Upper
43 100
61 20.0 16.8 25.2
87 15.5 12.4 18.6





#48

Methyl methacrylate

Concen: 1.587 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

JC-03-010819-D

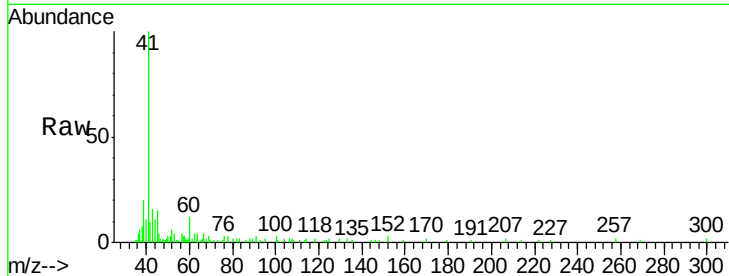
Tot Ion: 41 Resp: 11816

Ion Ratio Lower Upper

41 100

69 2.4 72.4 108.6#

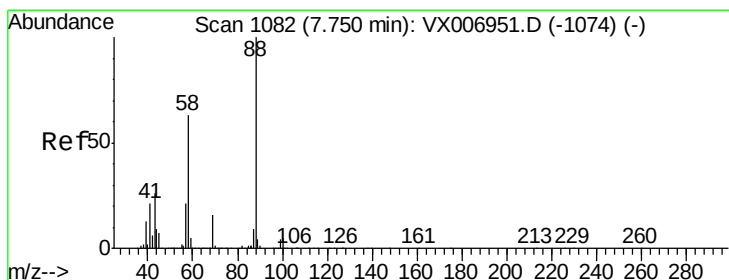
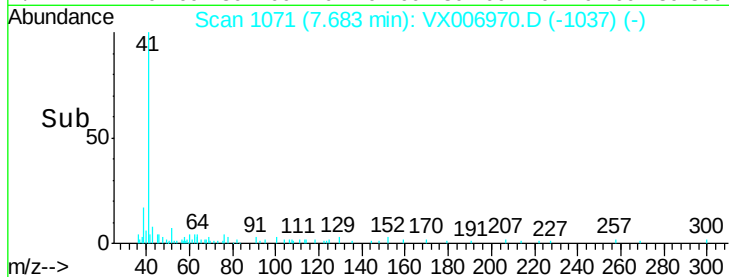
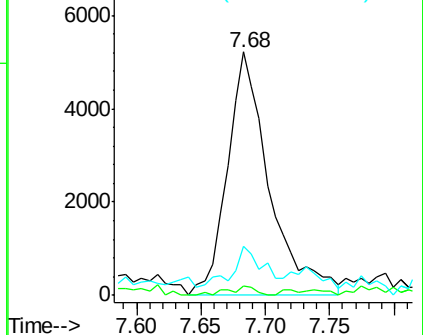
39 0.0 45.8 68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

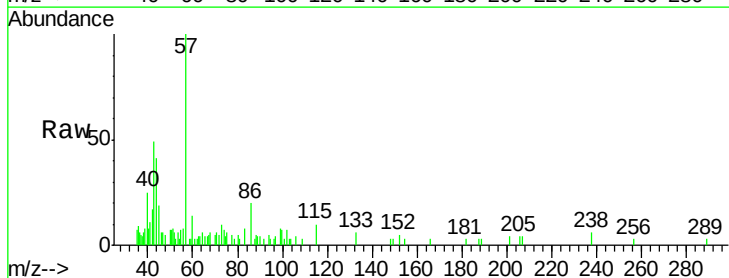
Tgt Ion: 88 Resp: 219

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

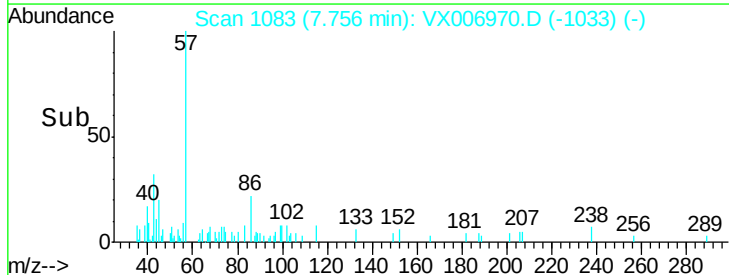
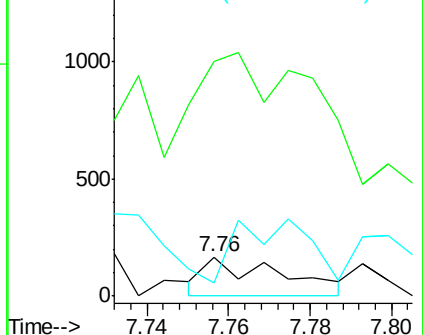
58 0.0 51.0 76.4#

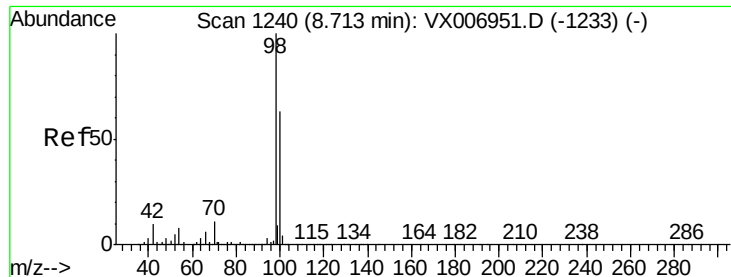


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

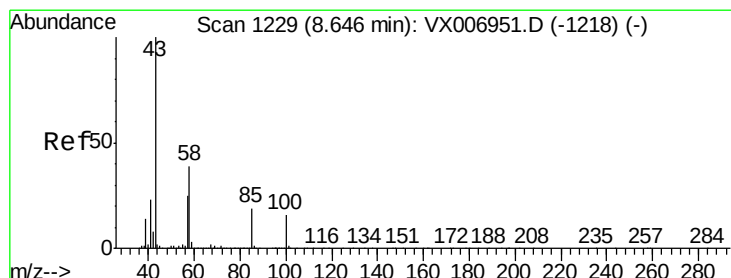
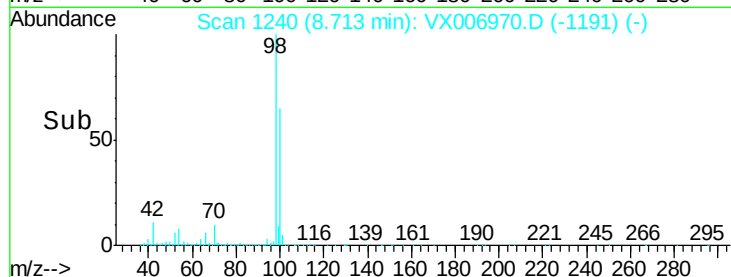
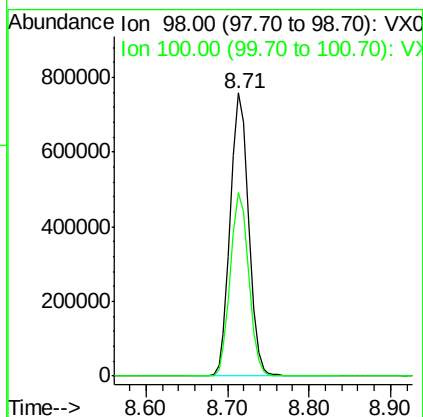
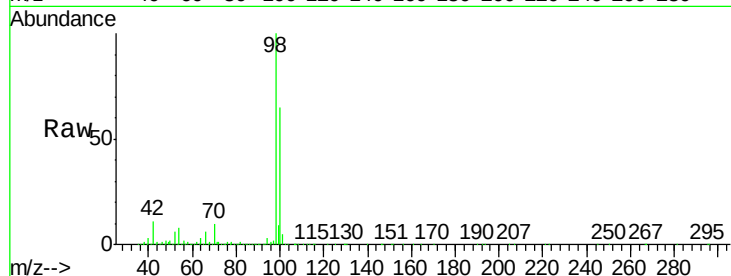




#50
Toluene-d8
Concen: 50.686 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

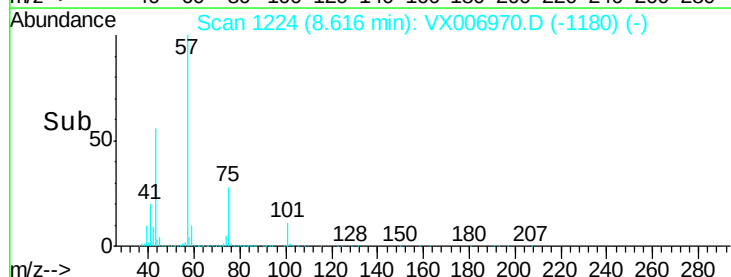
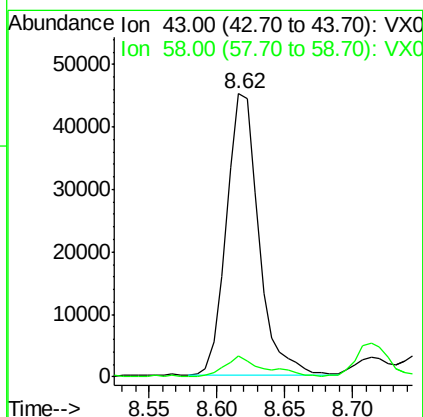
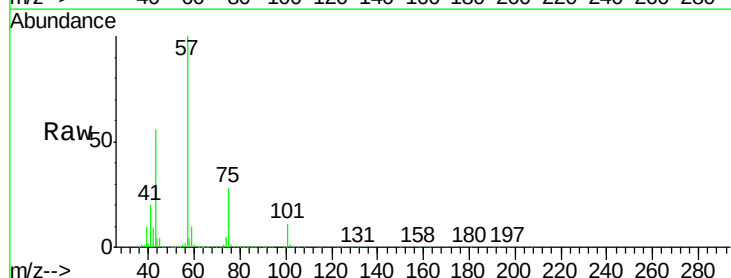
Instrument :
MSVOA_X
ClientSampleId :
JC-03-010819-D

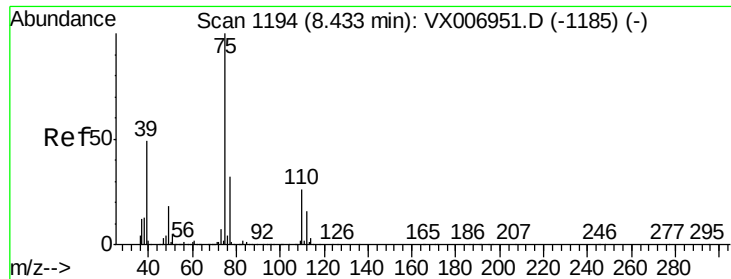
Tot Ion: 98 Resp: 1171540
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 7.968 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

Tgt Ion: 43 Resp: 74236
Ion Ratio Lower Upper
43 100
58 9.3 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 3.923 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

JC-03-010819-D

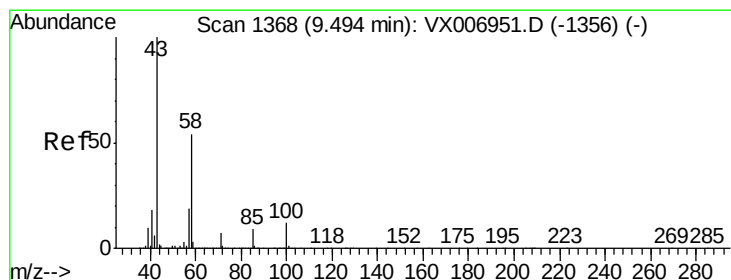
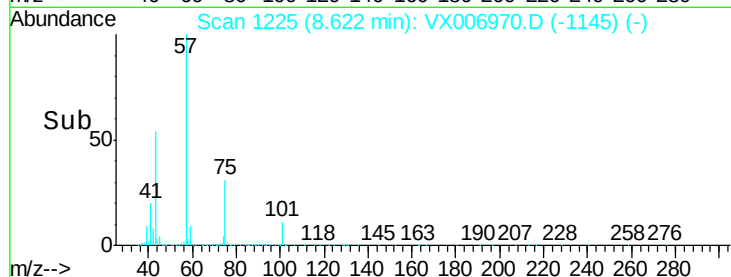
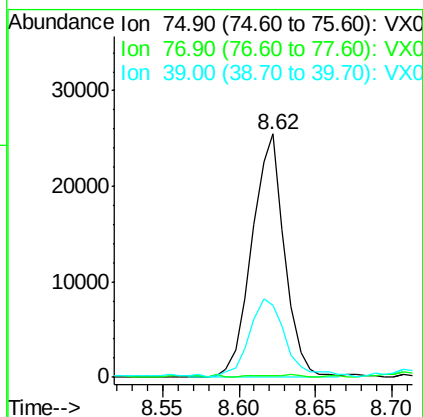
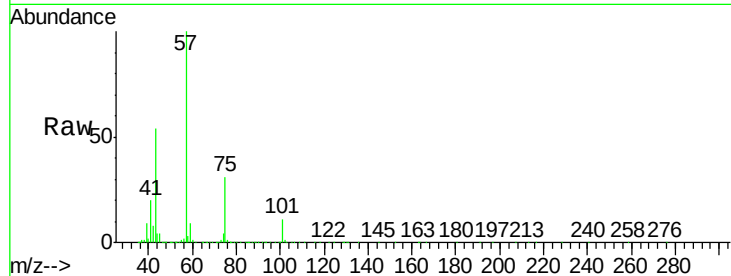
Tot Ion: 75 Resp: 37796

Ion Ratio Lower Upper

75 100

77 0.3 26.2 39.2#

39 28.3 36.7 55.1#



#59

2-Hexanone

Concen: 17.549 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006970.D

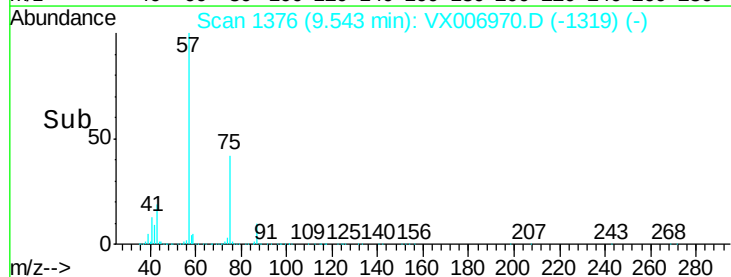
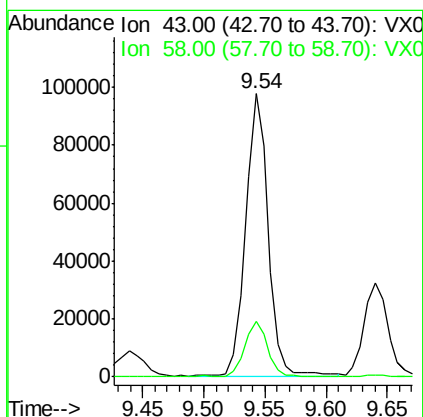
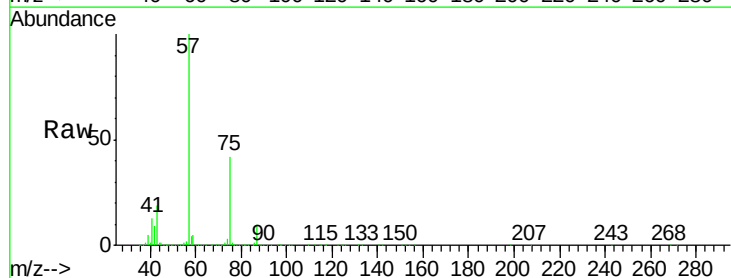
Acq: 09 Jan 2019 17:27

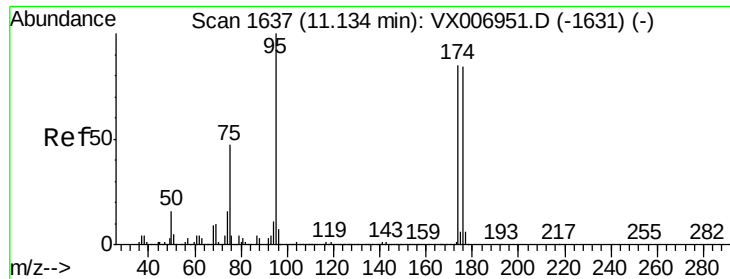
Tgt Ion: 43 Resp: 124599

Ion Ratio Lower Upper

43 100

58 19.7 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 51.945 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

JC-03-010819-D

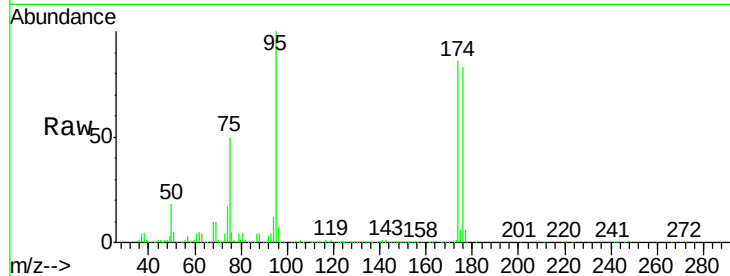
Tot Ion: 95 Resp: 418573

Ion Ratio Lower Upper

95 100

174 91.7 0.0 182.2

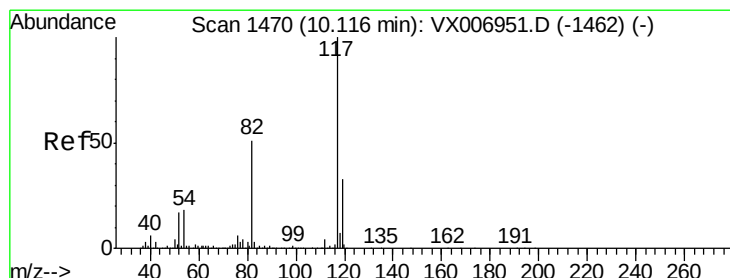
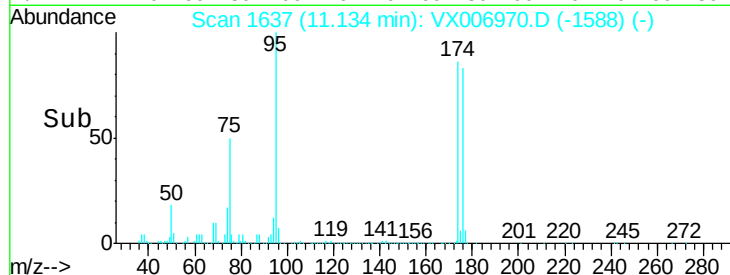
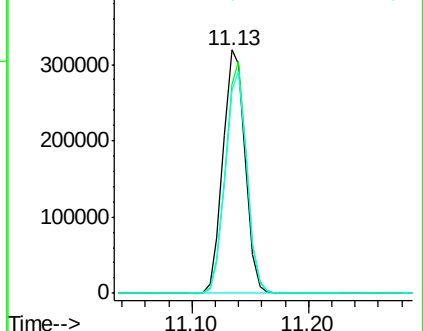
176 89.0 0.0 178.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

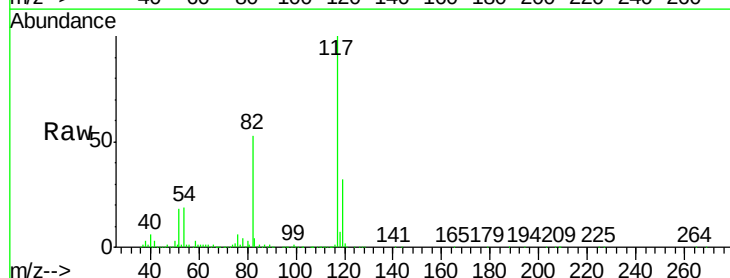
Tgt Ion: 117 Resp: 917708

Ion Ratio Lower Upper

117 100

82 52.7 41.0 61.6

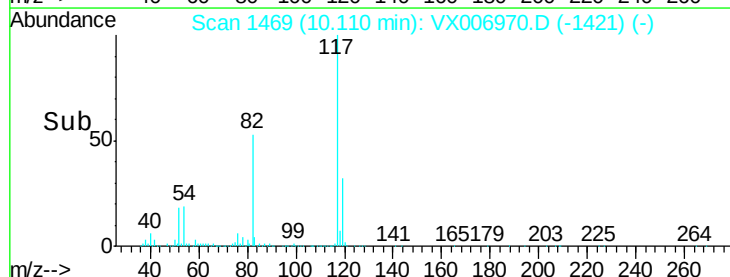
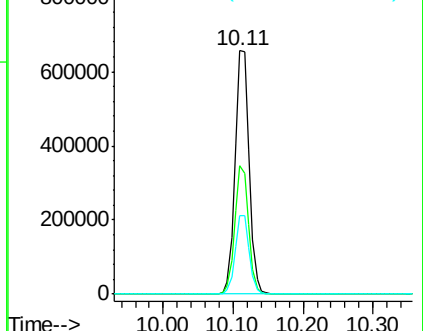
119 32.2 25.4 38.0

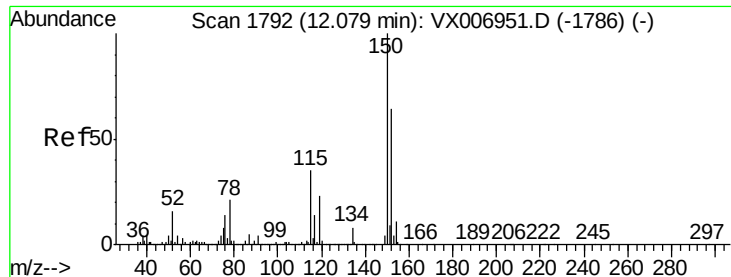


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

JC-03-010819-D

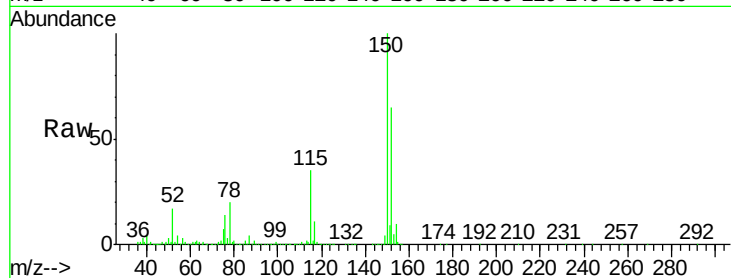
Tot Ion:152 Resp: 448152

Ion Ratio Lower Upper

152 100

115 55.5 39.1 117.2

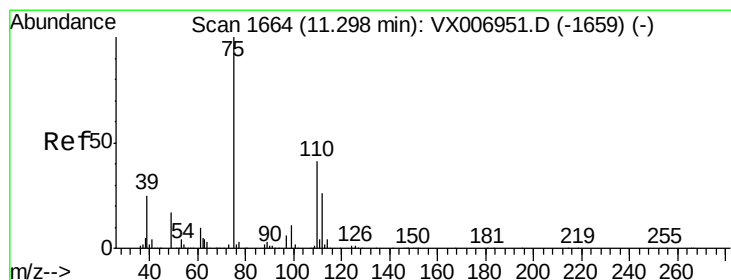
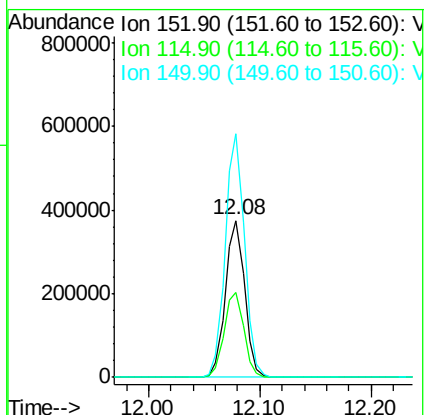
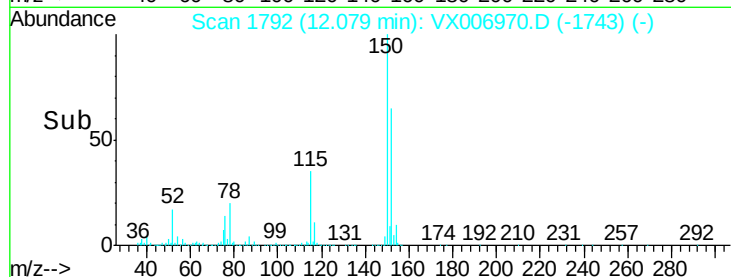
150 155.3 0.0 344.8



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: 21.757 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006970.D

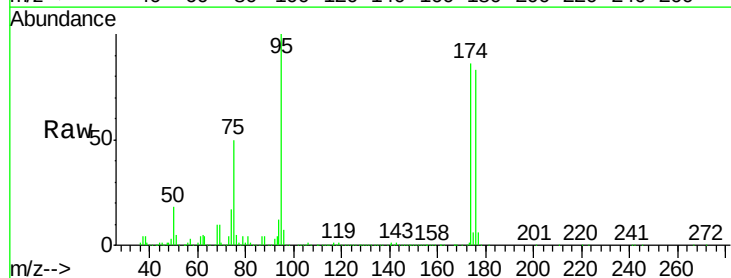
Acq: 09 Jan 2019 17:27

Tgt Ion: 75 Resp: 197587

Ion Ratio Lower Upper

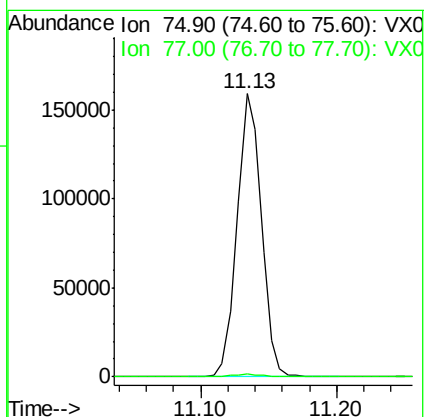
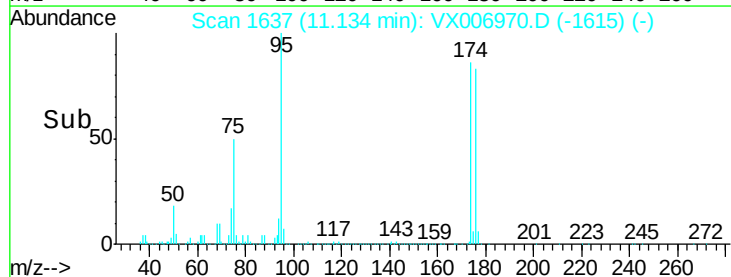
75 100

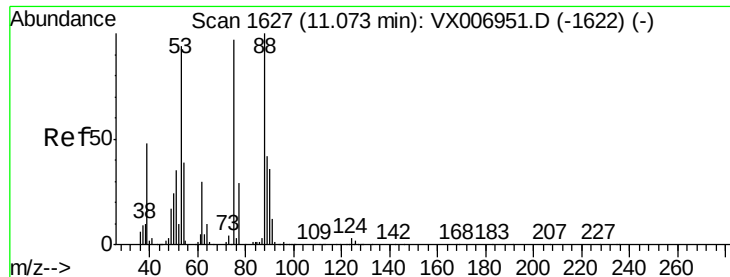
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

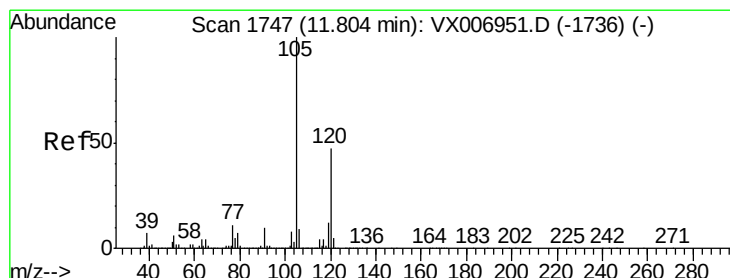
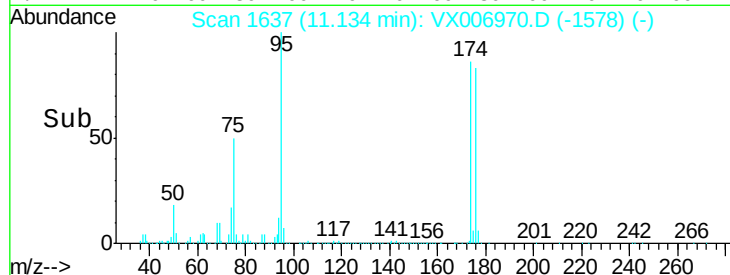
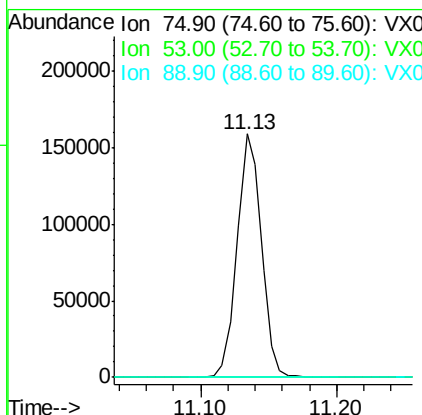
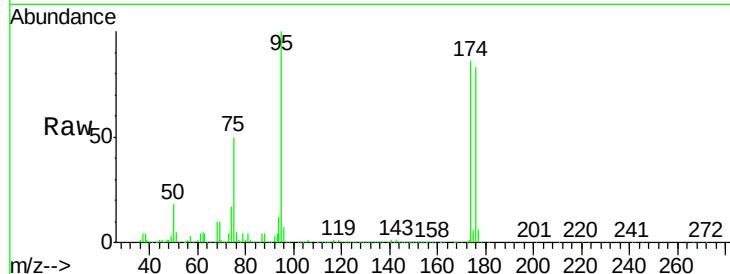




#81
trans-1,4-Dichloro-2-butene
Concen: 64.474 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

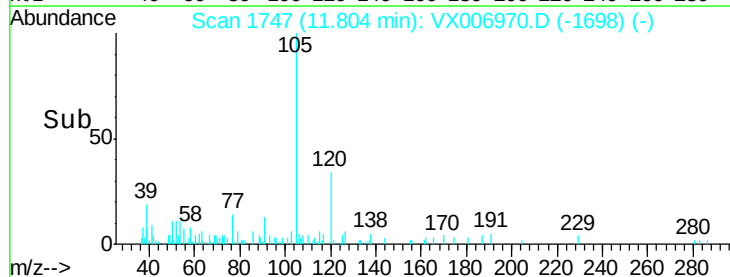
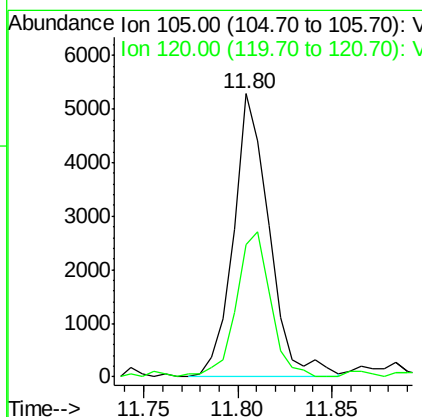
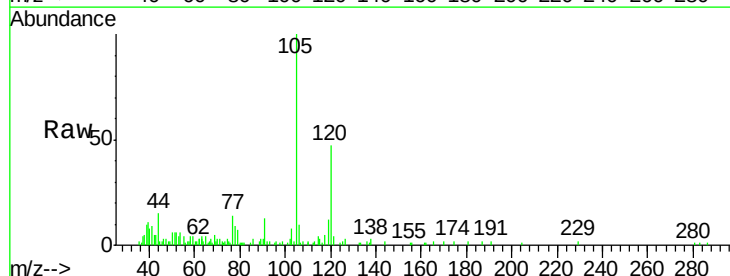
Instrument :
MSVOA_X
ClientSampleId :
JC-03-010819-D

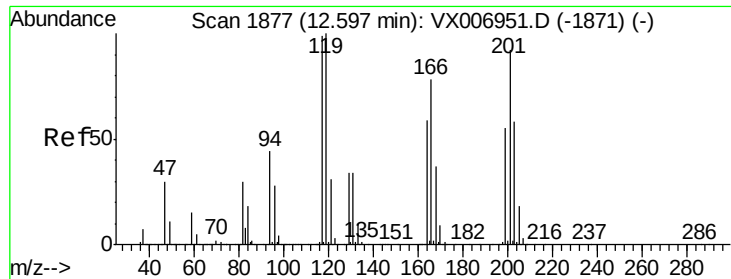
Tot Ion: 75 Resp: 197587
Ion Ratio Lower Upper
75 100
53 0.1 79.7 119.5#
89 0.1 38.0 57.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.261 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VX006970.D
Acq: 09 Jan 2019 17:27

Tgt Ion:105 Resp: 6935
Ion Ratio Lower Upper
105 100
120 49.3 23.2 69.6





#90

Hexachloroethane

Concen: 3.036 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

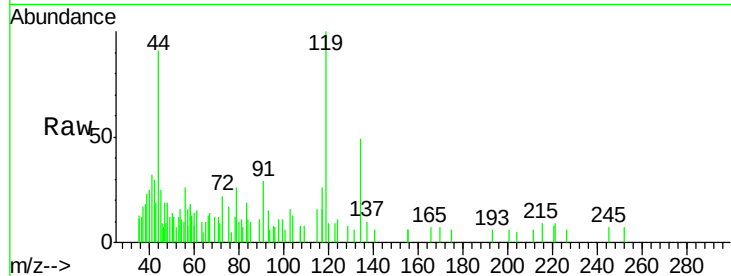
JC-03-010819-D

Tot Ion:117 Resp: 609

Ion Ratio Lower Upper

117 100

201 3.3 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.60

400

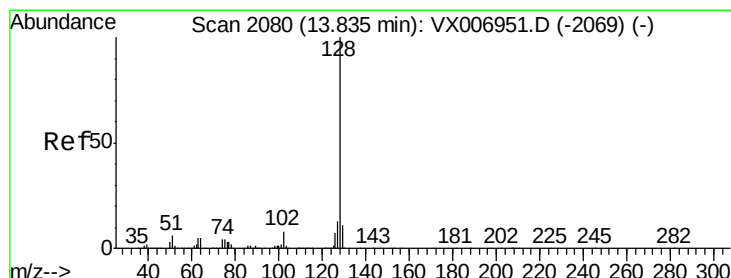
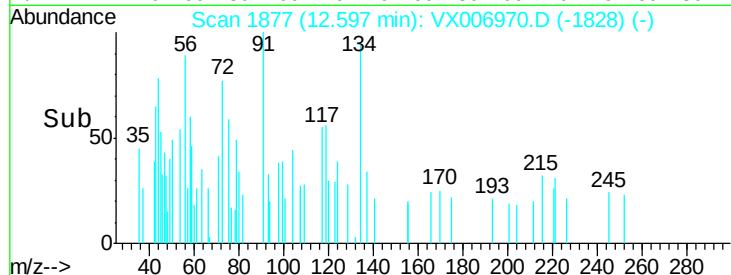
300

200

100

0

Time--> 12.55 12.60



#95

Naphthalene

Concen: 0.881 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006970.D

Acq: 09 Jan 2019 17:27

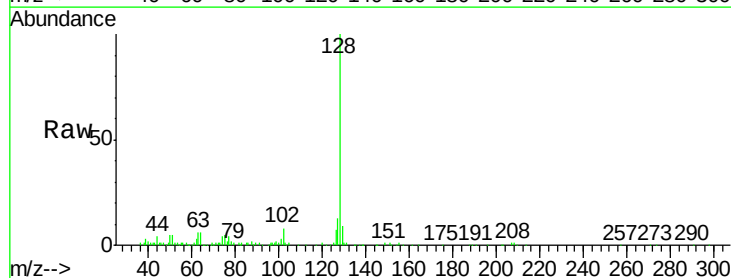
Tgt Ion:128 Resp: 28435

Ion Ratio Lower Upper

128 100

127 15.0 10.1 15.1

129 12.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.83

30000

25000

20000

15000

10000

5000

0

Time--> 13.80 13.85 13.90

