

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101918\
 Data File : VX005451.D
 Acq On : 19 Oct 2018 12:06
 Operator : JC/MD
 Sample : J5195-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JC-02-101818-A

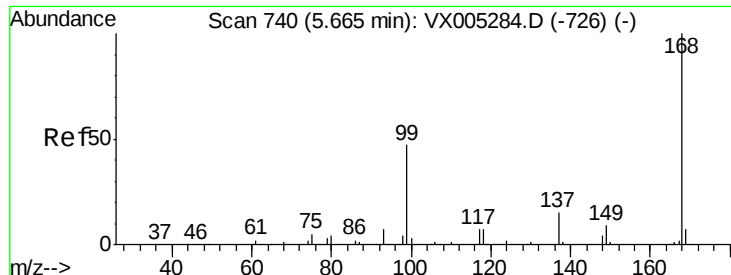
Quant Time: Oct 20 04:18:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	291021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	426331	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	370666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	179815	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	161328	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	5.50	113	135019	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	8.71	98	490227	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	11.14	95	165345	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	602	0.900	ug/l #	71
6) Chloroethane	1.72	64	99	0.380	ug/l #	1
10) Methyl Iodide	2.52	142	822	2.766	ug/l	93
11) Tert butyl alcohol	3.07	59	798	0.876	ug/l #	57
13) Acrolein	2.29	56	95	Below Cal	#	16
15) Acrylonitrile	3.15	53	668	0.324	ug/l #	69
16) Acetone	2.45	43	15355	8.222	ug/l	91
17) Carbon Disulfide	2.57	76	18954	2.455	ug/l	100
18) Methyl Acetate	2.78	43	6053	1.139	ug/l	99
20) Methylene Chloride	2.85	84	3440	Below Cal		96
25) 2-Butanone	4.70	43	5036	1.843	ug/l	95
29) Tetrahydrofuran	5.17	42	1885	1.082	ug/l #	89
31) Cyclohexane	5.67	56	4913	1.107	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19186	4.647	ug/l #	49
38) Carbon Tetrachloride	5.66	117	25830	6.226	ug/l #	16
40) Benzene	6.15	78	4359	0.352	ug/l	97
43) Isopropyl Acetate	6.46	43	167320	23.655	ug/l	97
44) Trichloroethene	7.22	130	338	Below Cal		98
48) Methyl methacrylate	7.69	41	6209	1.692	ug/l #	22
51) 4-Methyl-2-Pentanone	8.62	43	2085	0.426	ug/l #	34
76) 1,2,3-Trichloropropane	11.14	75	80083	22.960	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	80083	69.764	ug/l #	10
95) Naphthalene	13.83	128	2748	0.222	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005451.D

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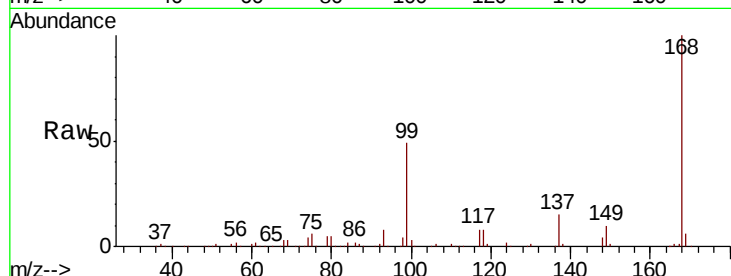
JC-02-101818-A

Tot Ion:168 Resp: 291021

Ion Ratio Lower Upper

168 100

99 49.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

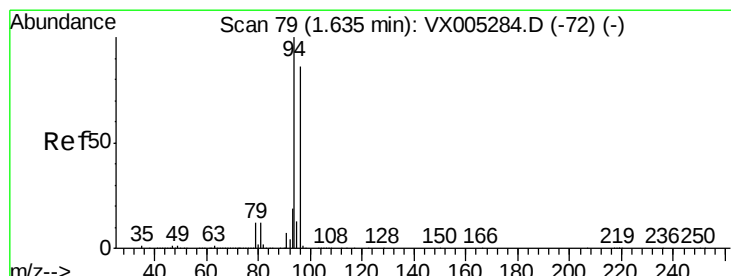
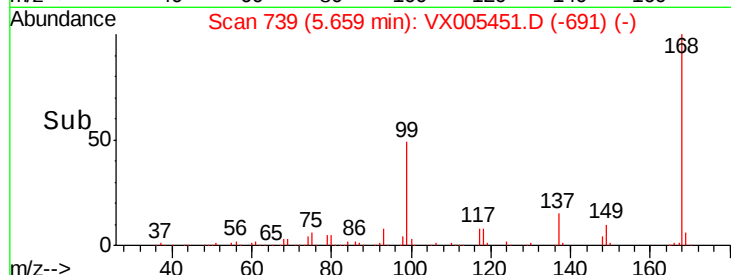
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.900 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005451.D

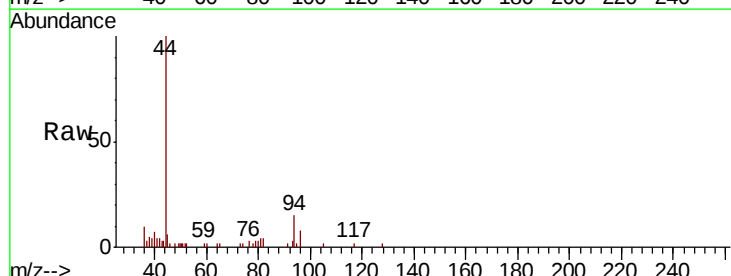
Acq: 19 Oct 2018 12:06

Tgt Ion: 94 Resp: 602

Ion Ratio Lower Upper

94 100

96 65.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

300

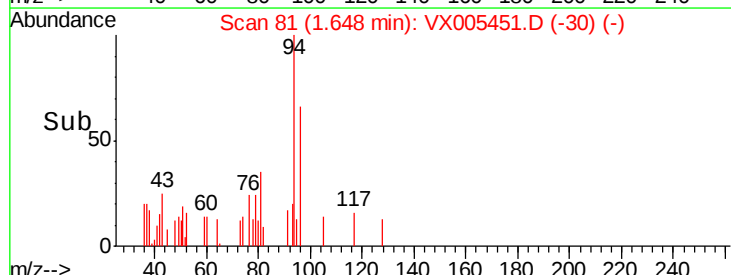
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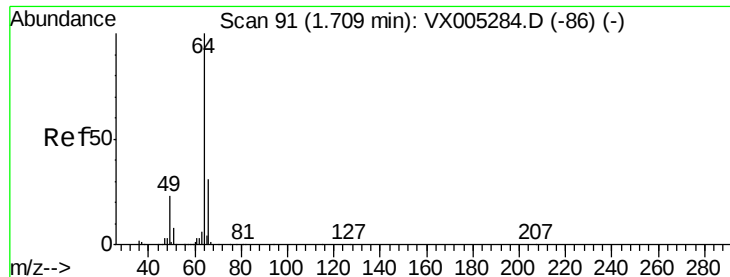
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.380 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

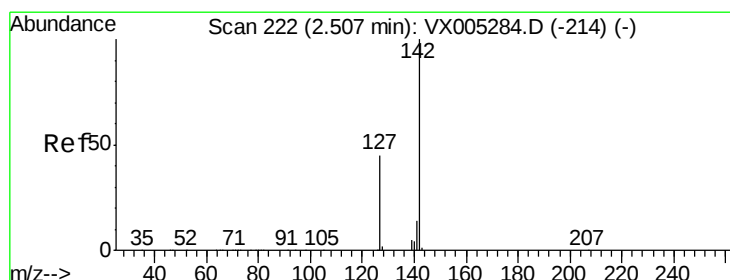
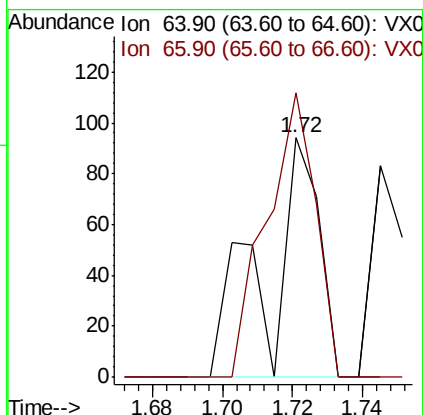
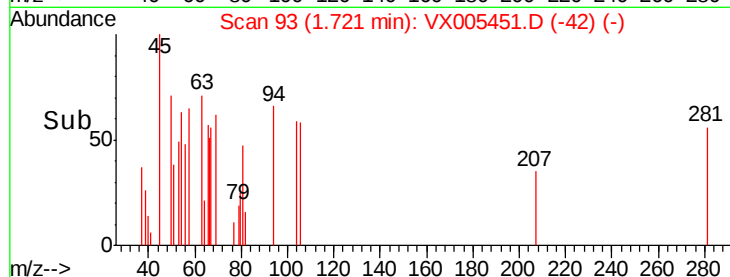
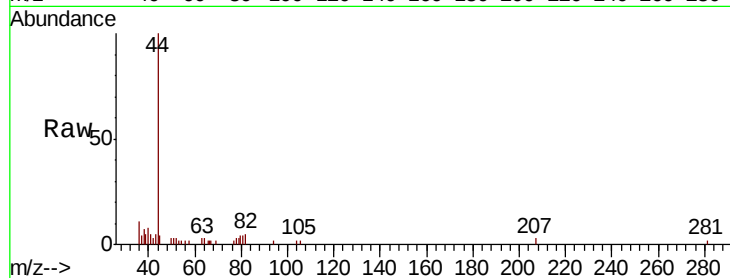
JC-02-101818-A

Tot Ion: 64 Resp: 99

Ion Ratio Lower Upper

64 100

66 119.1 24.6 36.8#



#10

Methyl Iodide

Concen: 2.766 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

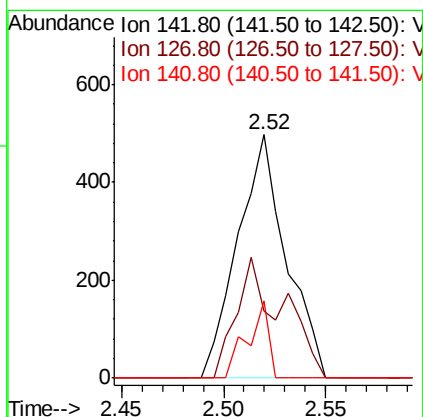
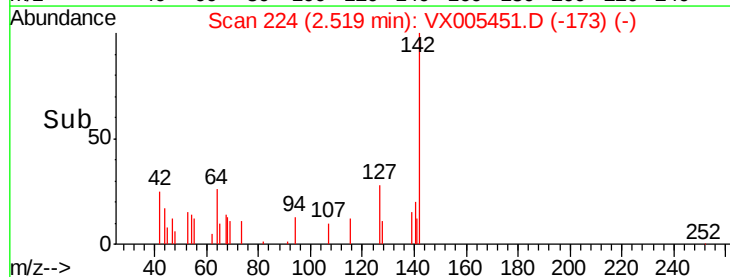
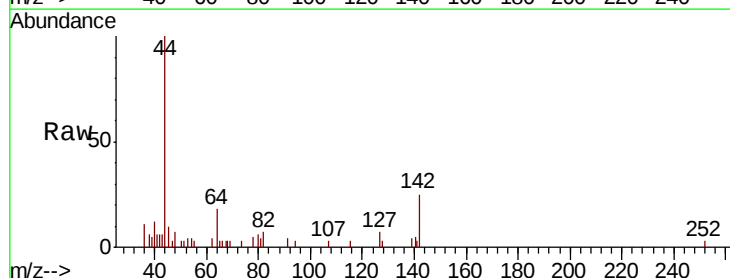
Tgt Ion: 142 Resp: 822

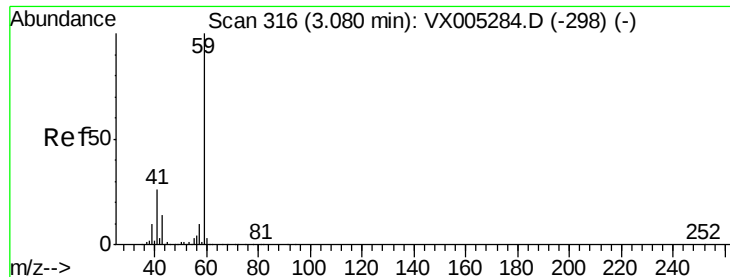
Ion Ratio Lower Upper

142 100

127 47.4 33.8 50.6

141 13.6 11.4 17.0



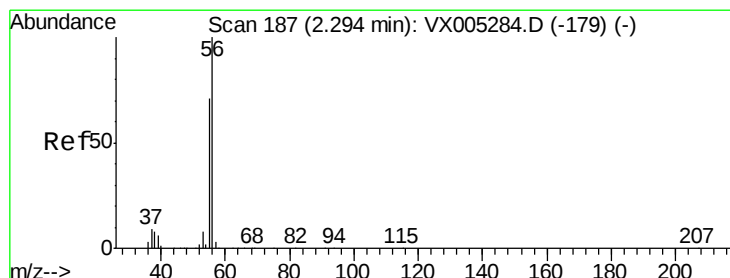
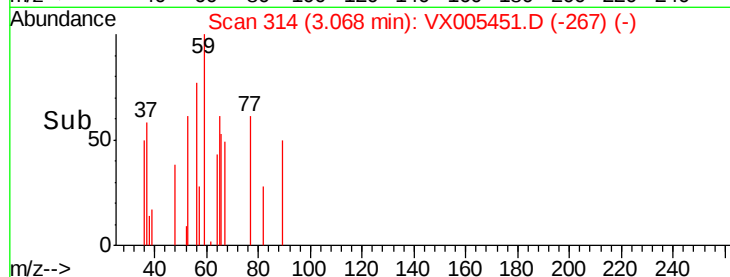
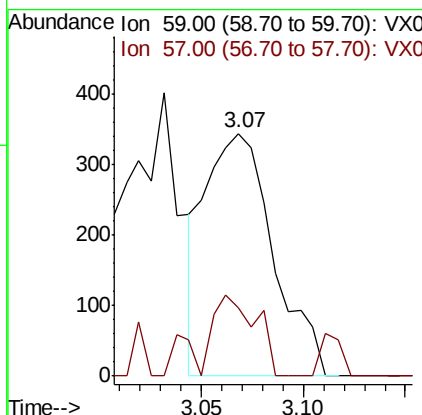
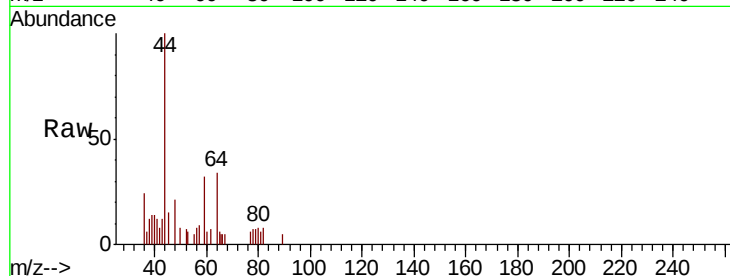


#11

Tert butvl alcohol
 Concen: 0.876 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX005451.D
 Acq: 19 Oct 2018 12:06

Instrument :
 MSVOA_X
 ClientSampleId :
 JC-02-101818-A

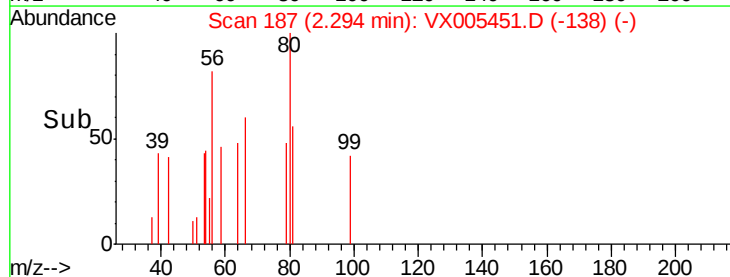
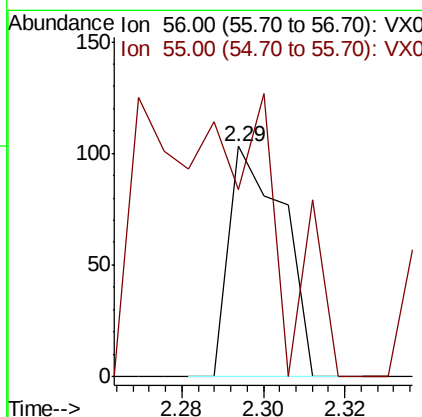
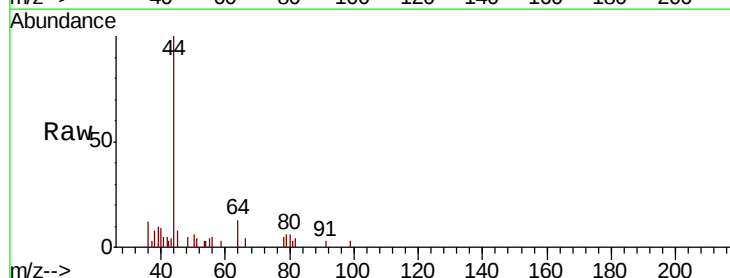
Tot Ion: 59 Resp: 798
 Ion Ratio Lower Upper
 59 100
 57 26.3 8.2 12.4#

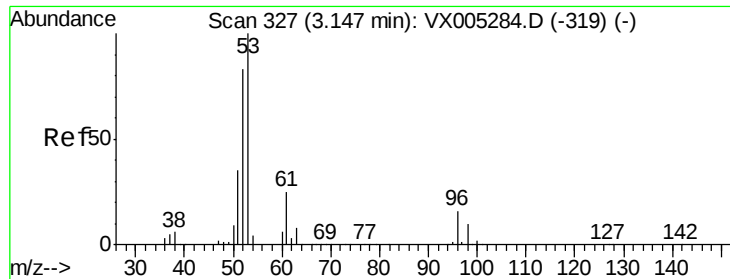


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX005451.D
 Acq: 19 Oct 2018 12:06

Tgt Ion: 56 Resp: 95
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#





#15

Acrylonitrile

Concen: 0.324 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-A

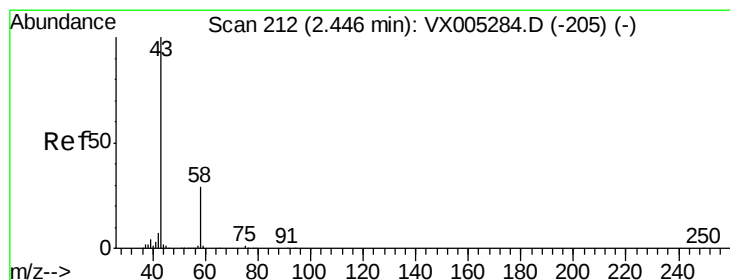
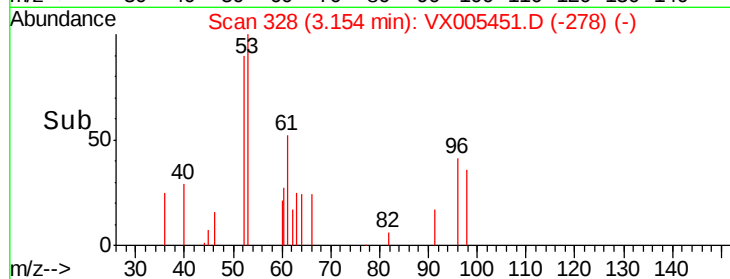
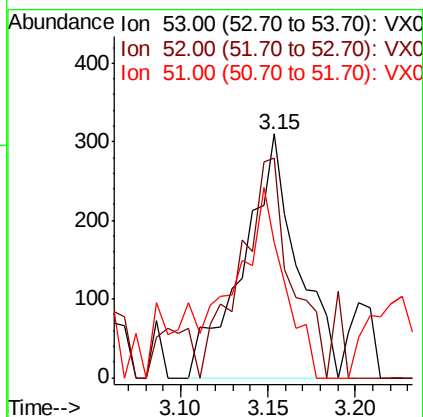
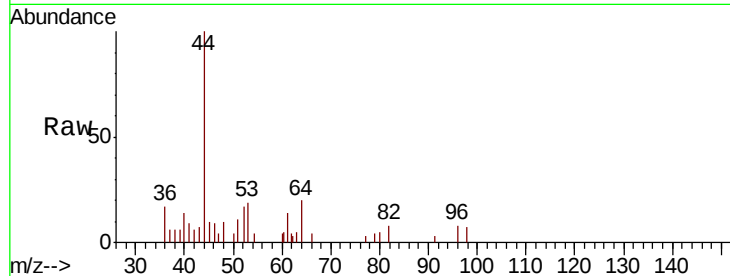
Tot Ion: 53 Resp: 668

Ion Ratio Lower Upper

53 100

52 85.2 65.2 97.8

51 88.8 28.2 42.2#



#16

Acetone

Concen: 8.222 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005451.D

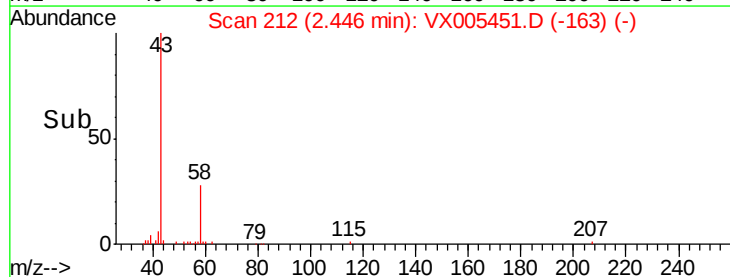
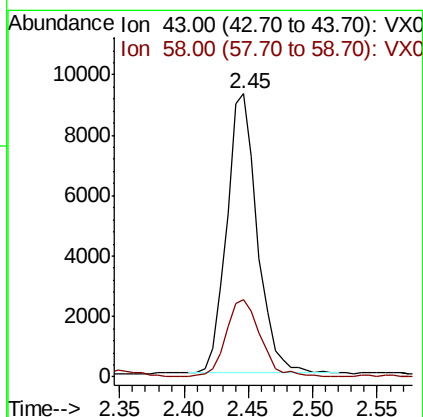
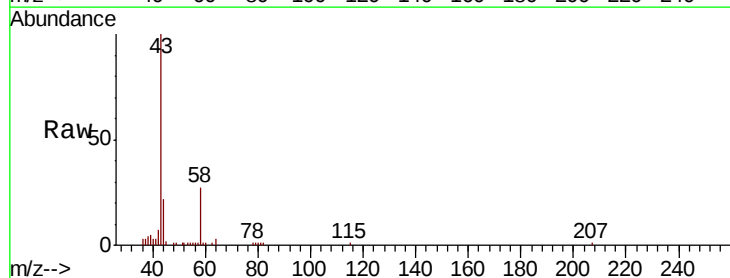
Acq: 19 Oct 2018 12:06

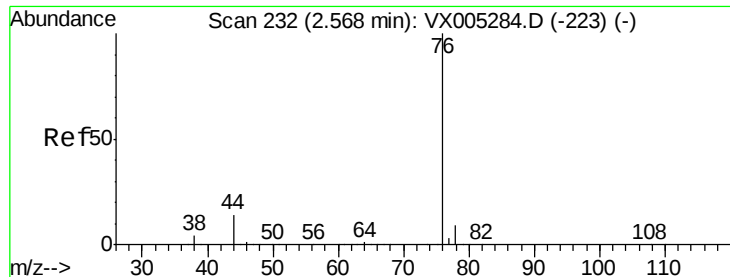
Tgt Ion: 43 Resp: 15355

Ion Ratio Lower Upper

43 100

58 27.8 26.2 39.4





#17

Carbon Disulfide

Concen: 2.455 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

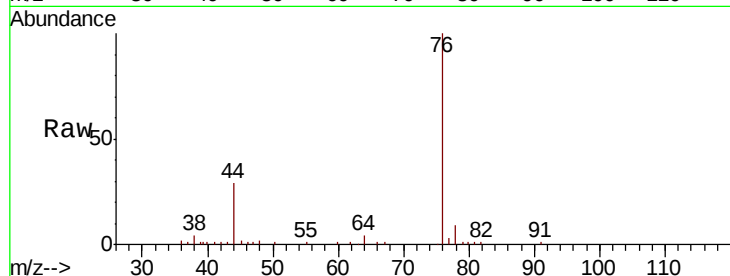
JC-02-101818-A

Tot Ion: 76 Resp: 18954

Ion Ratio Lower Upper

76 100

78 8.6 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

12000

10000

8000

6000

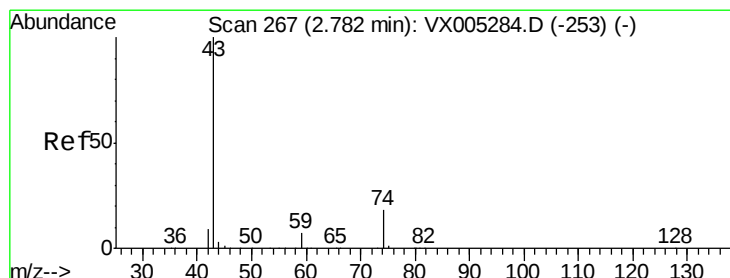
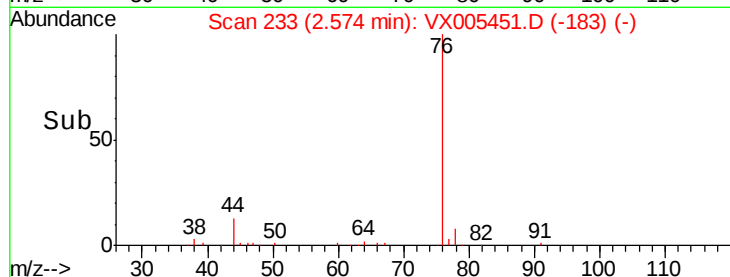
4000

2000

0

Time-->

2.50 2.55 2.60 2.65



#18

Methyl Acetate

Concen: 1.139 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005451.D

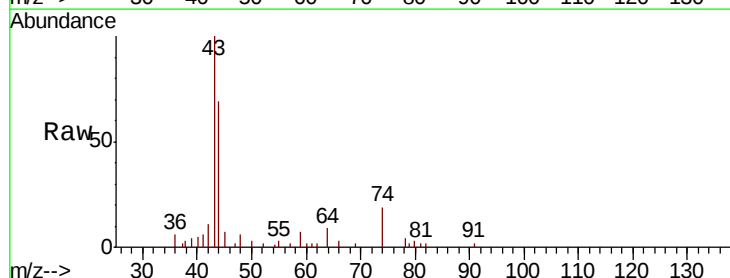
Acq: 19 Oct 2018 12:06

Tgt Ion: 43 Resp: 6053

Ion Ratio Lower Upper

43 100

74 24.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

4000

3000

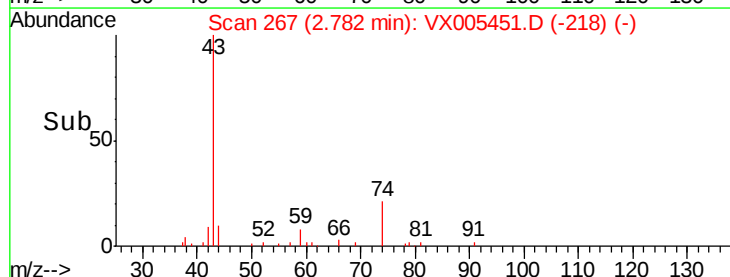
2000

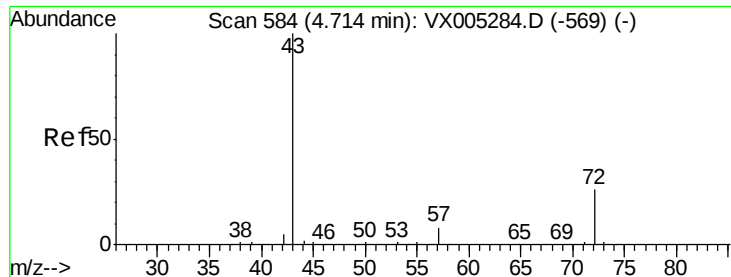
1000

0

Time-->

2.70 2.75 2.80 2.85 2.90





#25

2-Butanone

Concen: 1.843 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

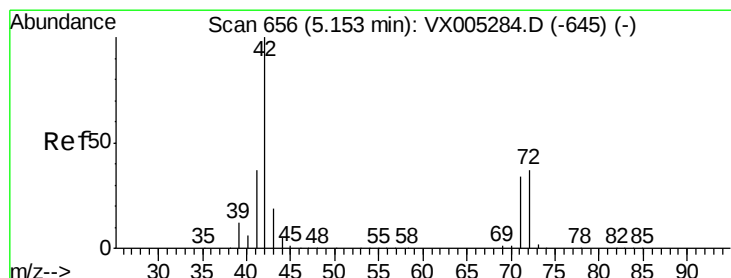
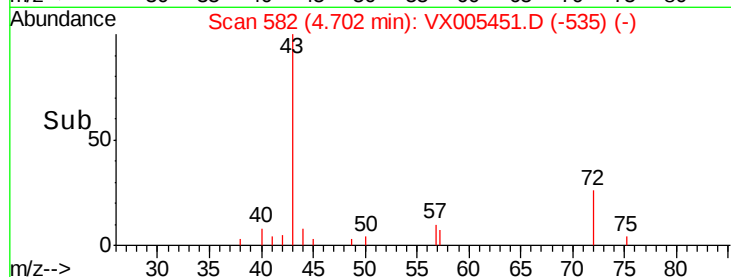
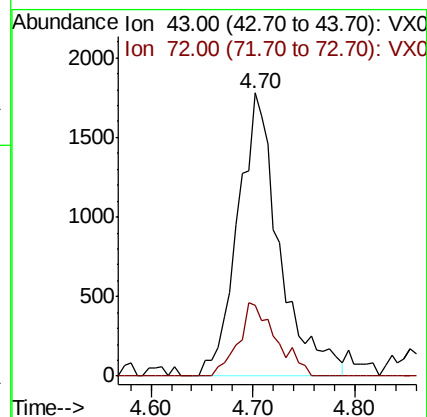
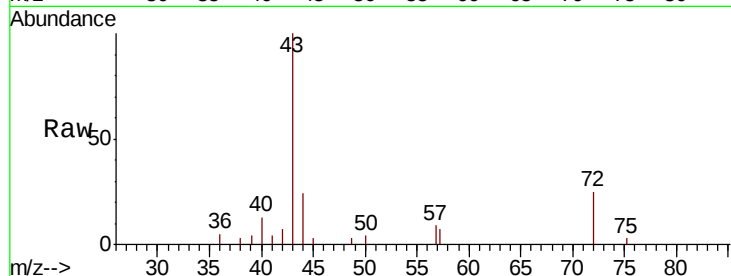
JC-02-101818-A

Tot Ion: 43 Resp: 5036

Ion Ratio Lower Upper

43 100

72 24.9 22.0 33.0



#29

Tetrahydrofuran

Concen: 1.082 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

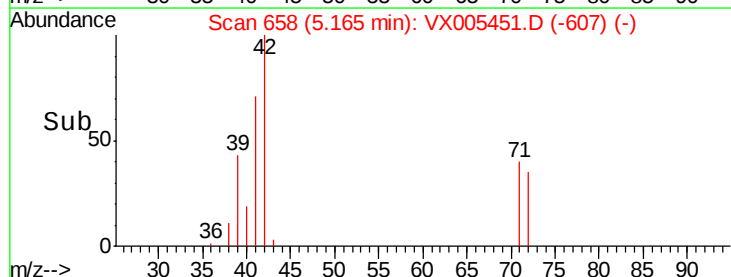
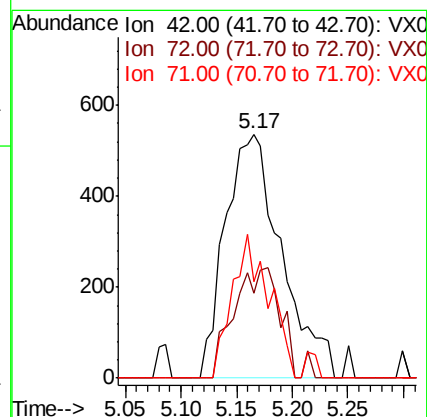
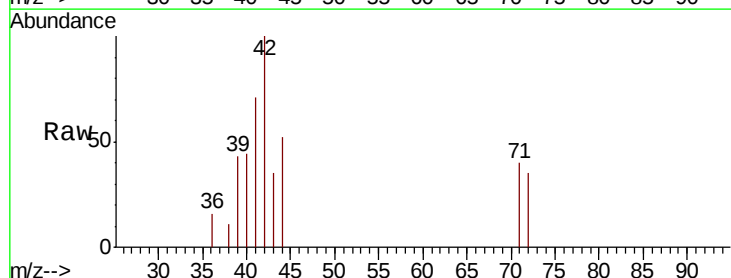
Tgt Ion: 42 Resp: 1885

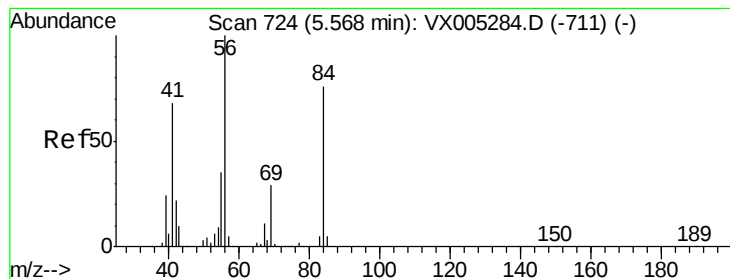
Ion Ratio Lower Upper

42 100

72 36.6 37.4 56.0#

71 38.6 34.5 51.7





#31

Cyclohexane

Concen: 1.107 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

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ClientSampleId :

JC-02-101818-A

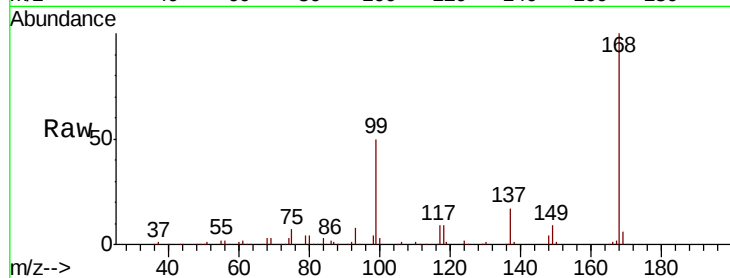
Tot Ion: 56 Resp: 4913

Ion Ratio Lower Upper

56 100

69 180.9 25.4 38.2#

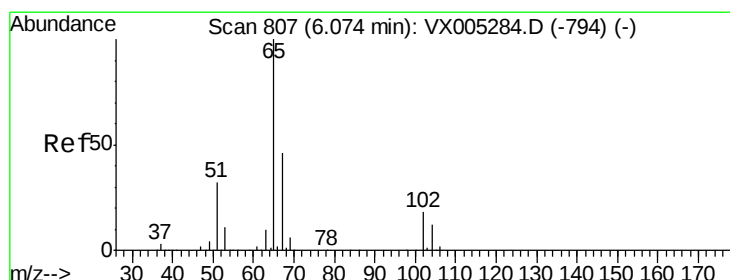
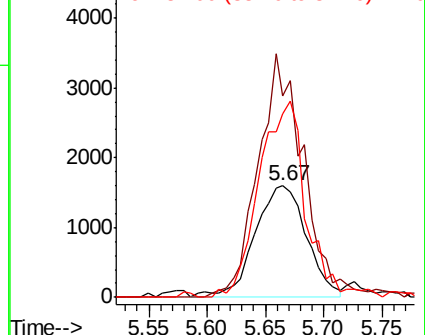
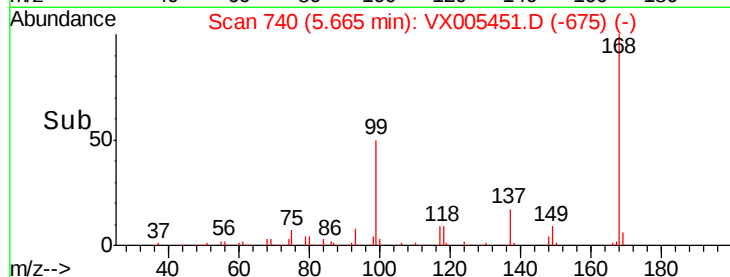
84 160.8 71.4 107.2#



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: 49.948 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005451.D

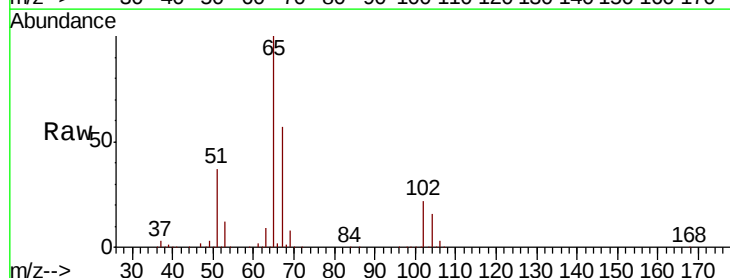
Acq: 19 Oct 2018 12:06

Tgt Ion: 65 Resp: 161328

Ion Ratio Lower Upper

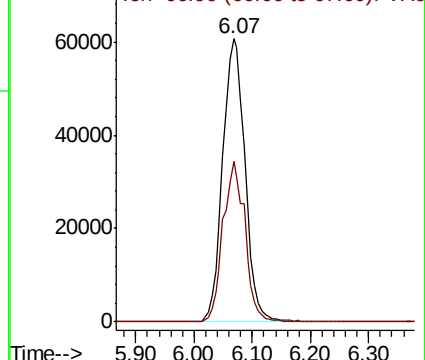
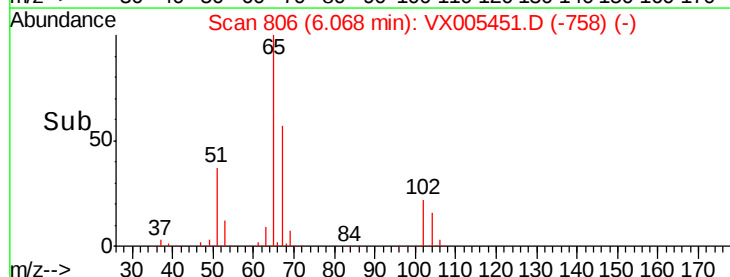
65 100

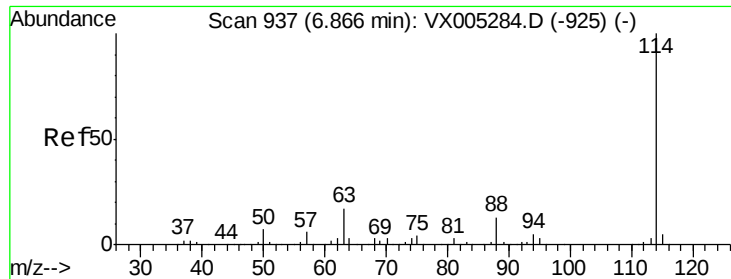
67 55.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

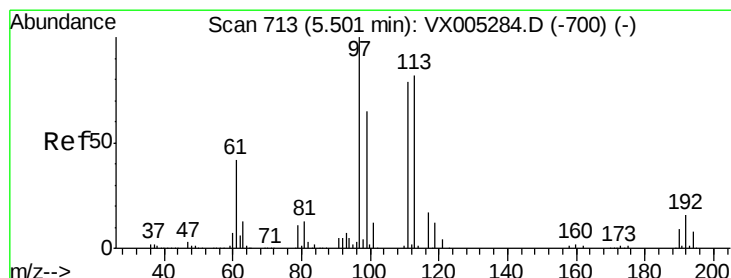
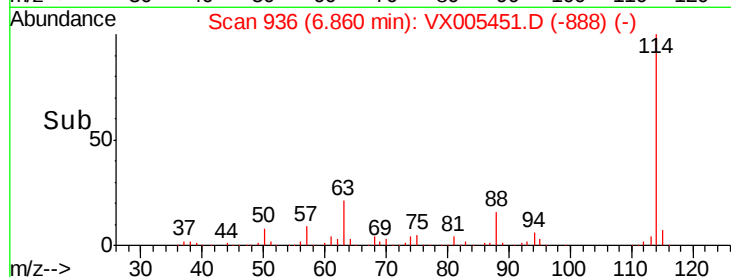
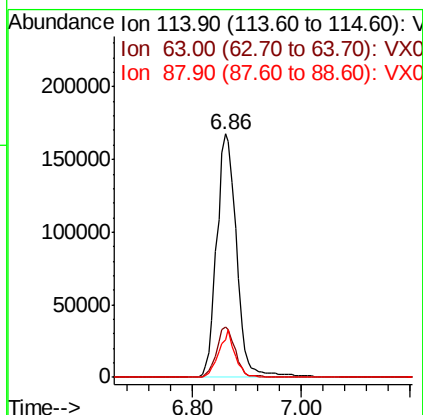
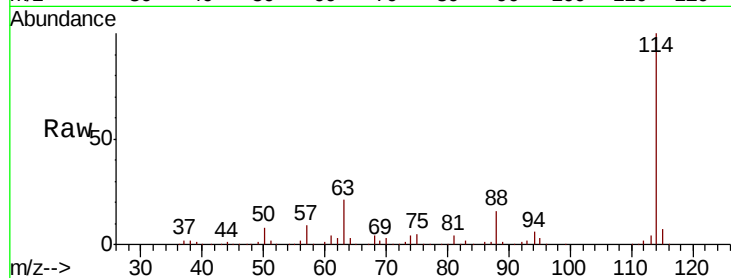




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.01 min
Lab File: VX005451.D
Acq: 19 Oct 2018 12:06

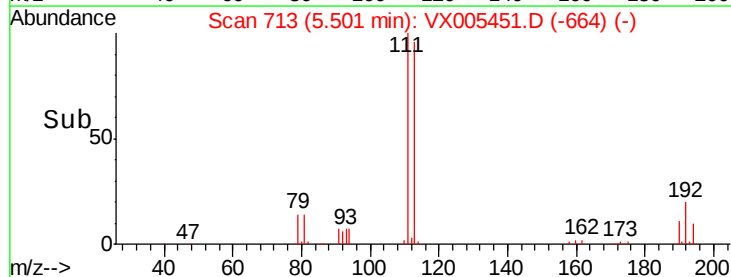
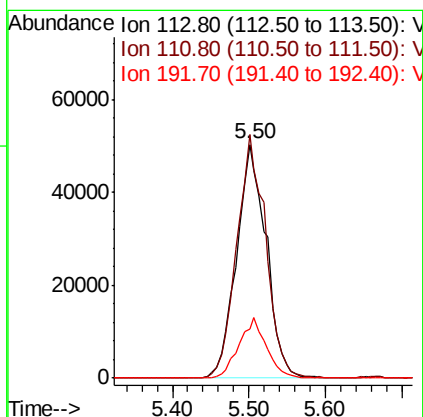
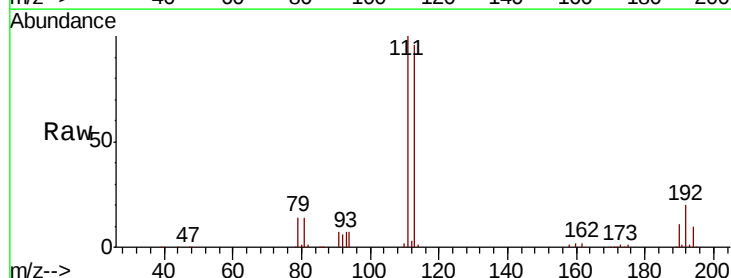
Instrument :
MSVOA_X
ClientSampleId :
JC-02-101818-A

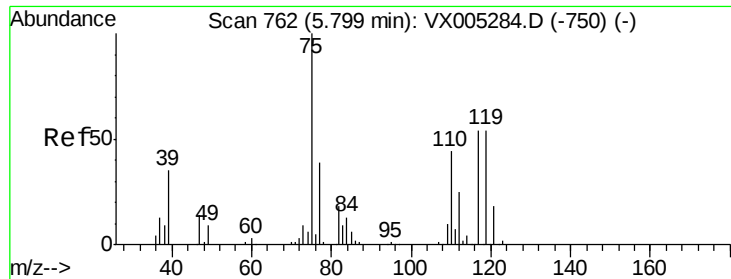
Tot Ion:114 Resp: 426331
Ion Ratio Lower Upper
114 100
63 20.7 0.0 39.0
88 15.7 0.0 30.4



#35
Dibromofluoromethane
Concen: 47.816 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX005451.D
Acq: 19 Oct 2018 12:06

Tgt Ion:113 Resp: 135019
Ion Ratio Lower Upper
113 100
111 102.3 82.4 123.6
192 24.2 19.4 29.2





#36

1,1-Dichloropropene

Concen: 4.647 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-A

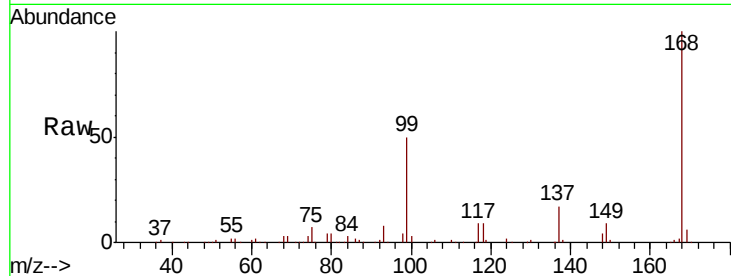
Tot Ion: 75 Resp: 19186

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

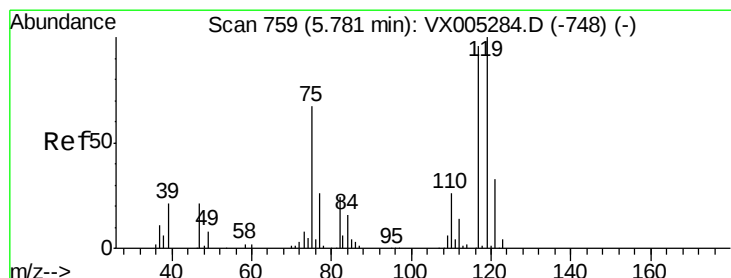
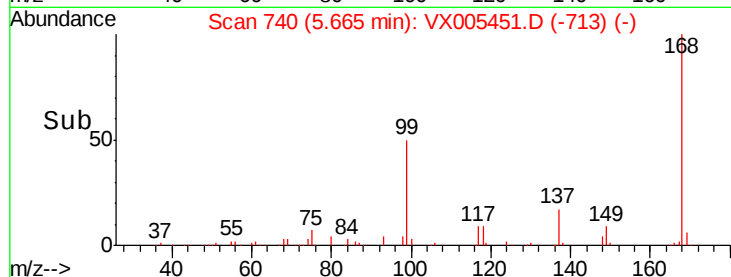
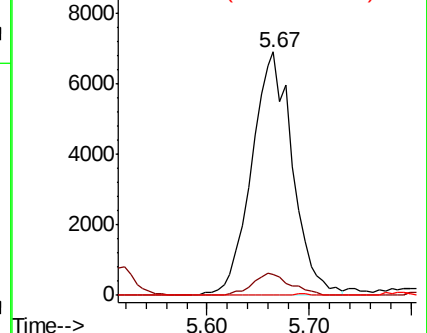
77 0.0 24.6 36.8#



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: 6.226 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

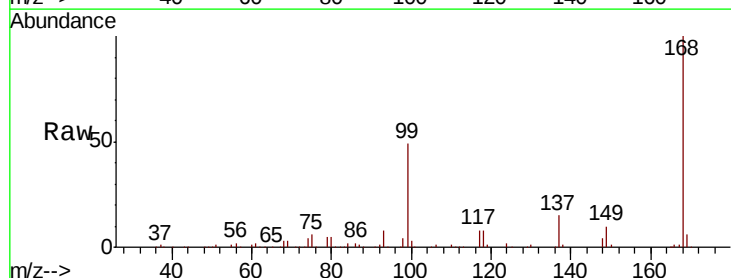
Tgt Ion: 117 Resp: 25830

Ion Ratio Lower Upper

117 100

119 6.8 78.8 118.2#

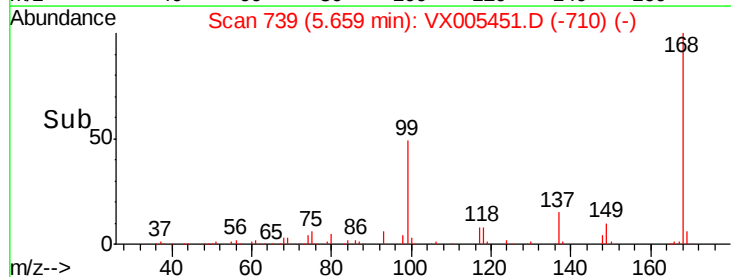
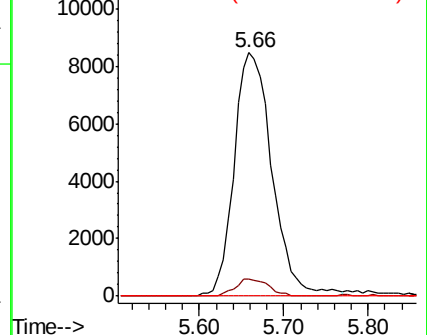
121 0.0 24.9 37.3#

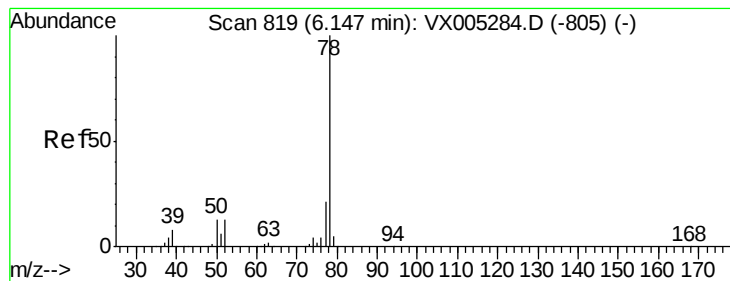


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.352 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

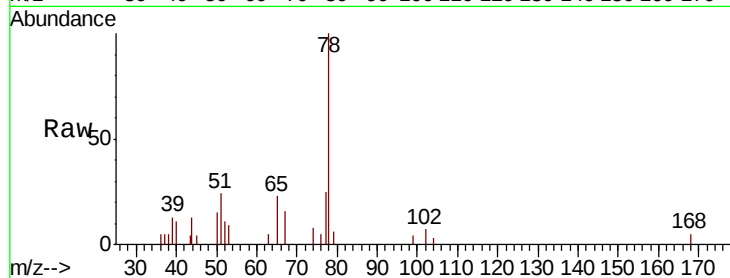
JC-02-101818-A

Tot Ion: 78 Resp: 4359

Ion Ratio Lower Upper

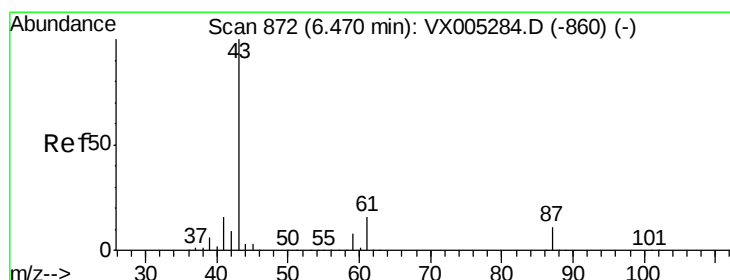
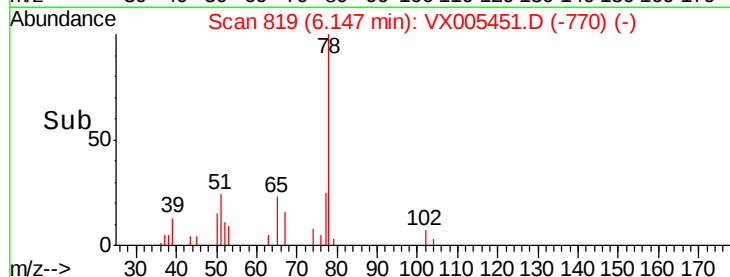
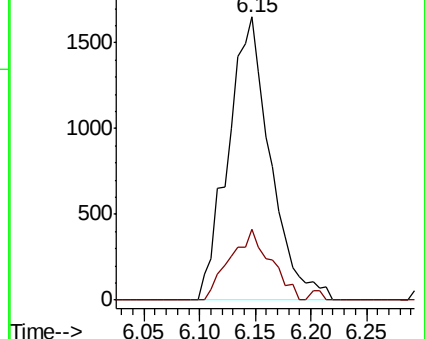
78 100

77 25.0 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#43

Isopropyl Acetate

Concen: 23.655 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

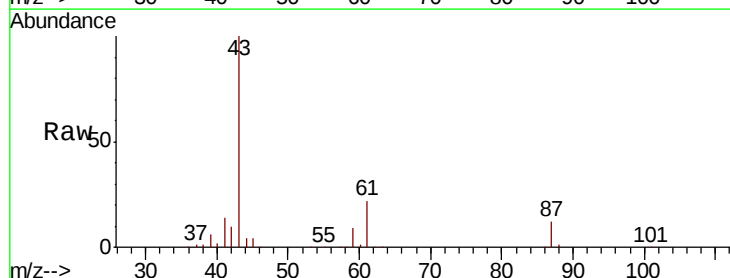
Tgt Ion: 43 Resp: 167320

Ion Ratio Lower Upper

43 100

61 20.1 17.0 25.4

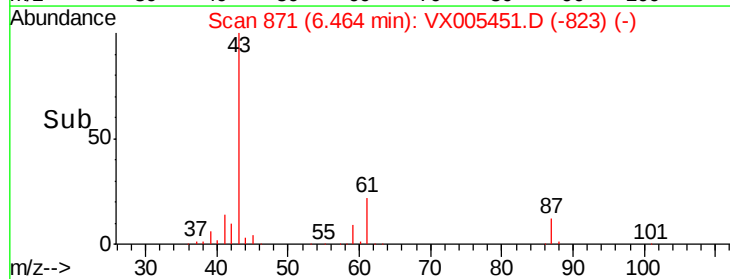
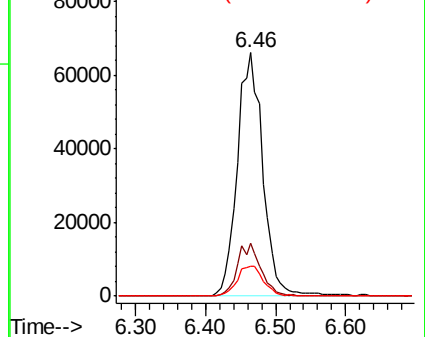
87 12.7 11.4 17.2

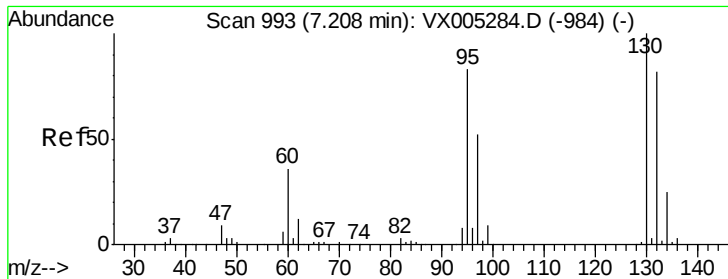


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

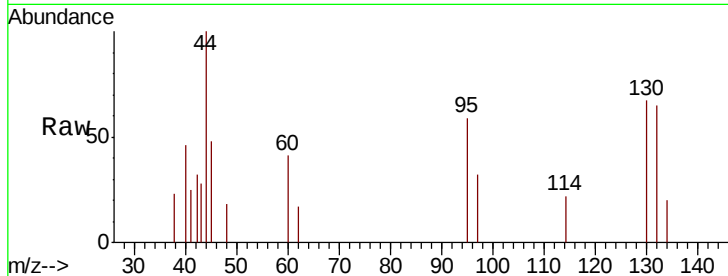
JC-02-101818-A

Tot Ion:130 Resp: 338

Ion Ratio Lower Upper

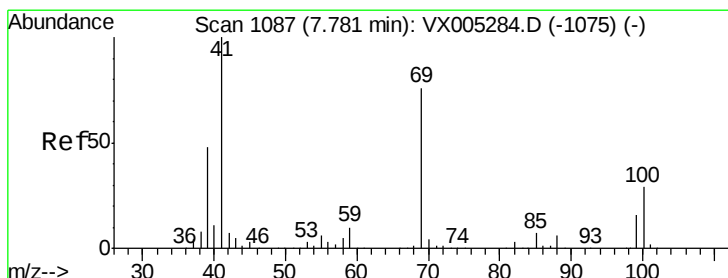
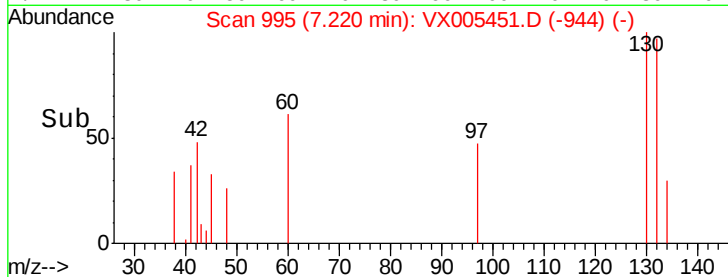
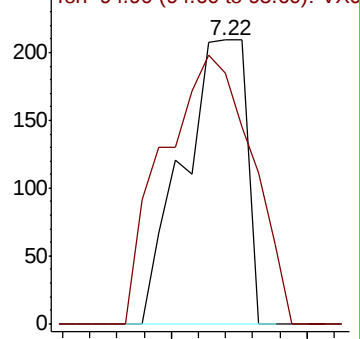
130 100

95 88.5 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.692 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

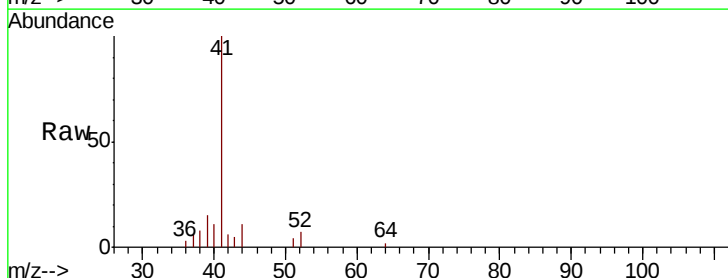
Tgt Ion: 41 Resp: 6209

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

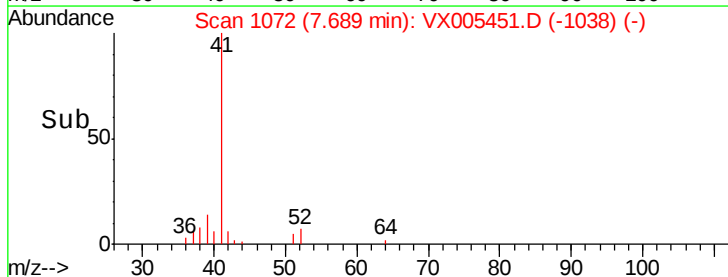
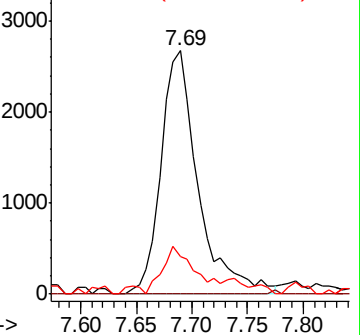
39 17.2 42.7 64.1#

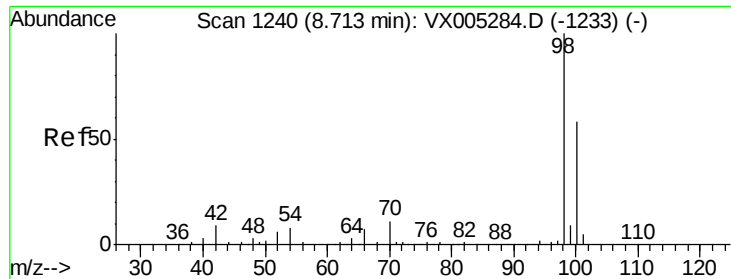


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

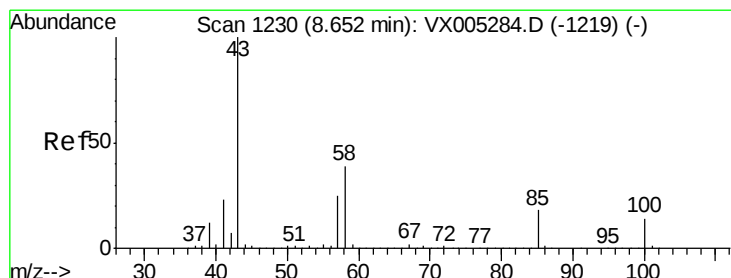
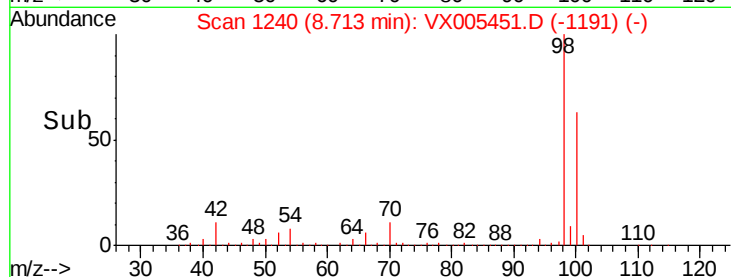
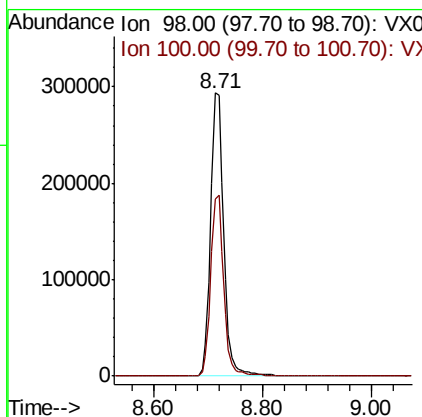
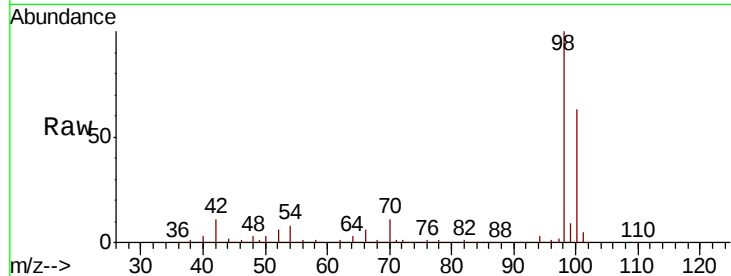




#50
Toluene-d8
Concen: 50.570 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005451.D
Acq: 19 Oct 2018 12:06

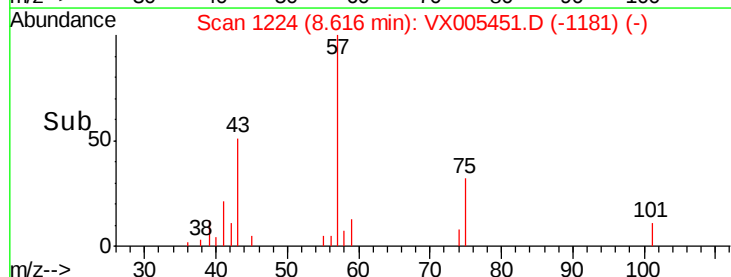
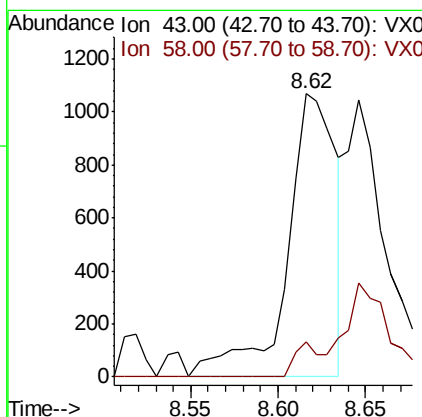
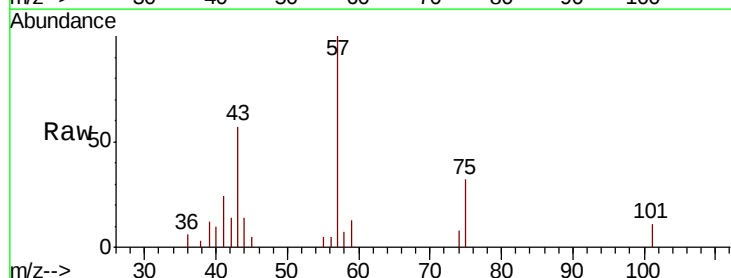
Instrument :
MSVOA_X
ClientSampleId :
JC-02-101818-A

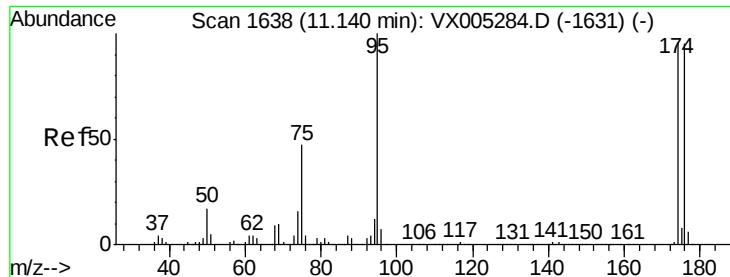
Tot Ion: 98 Resp: 490227
Ion Ratio Lower Upper
98 100
100 63.6 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.426 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.04 min
Lab File: VX005451.D
Acq: 19 Oct 2018 12:06

Tgt Ion: 43 Resp: 2085
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





#62

4-Bromofluorobenzene

Concen: 45.404 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-A

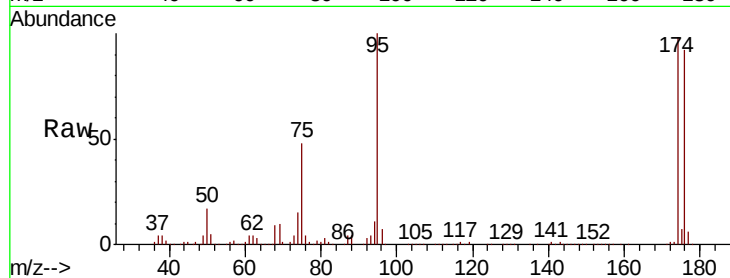
Tot Ion: 95 Resp: 165345

Ion Ratio Lower Upper

95 100

174 94.9 0.0 185.2

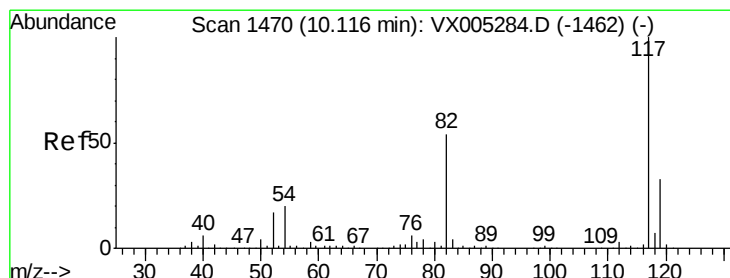
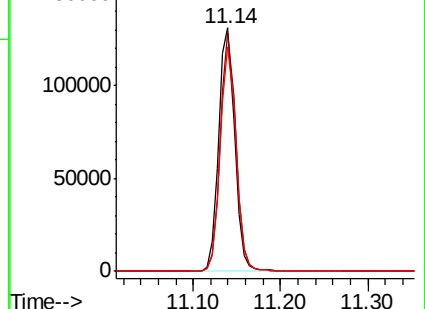
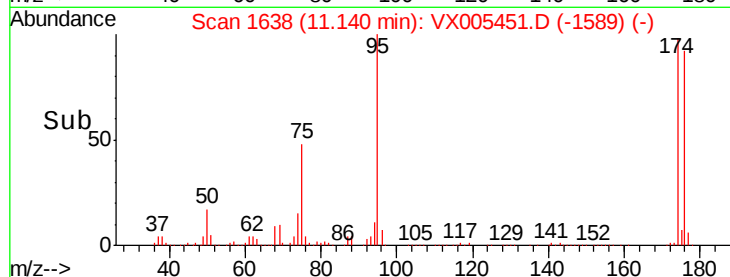
176 90.6 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005451.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005451.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005451.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

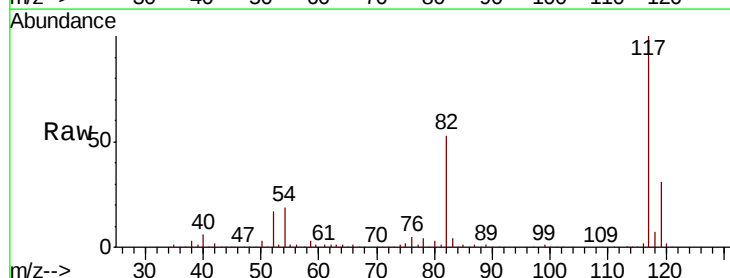
Tgt Ion: 117 Resp: 370666

Ion Ratio Lower Upper

117 100

82 53.3 47.8 71.6

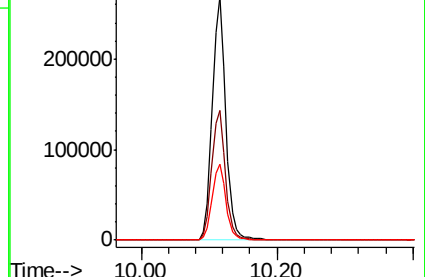
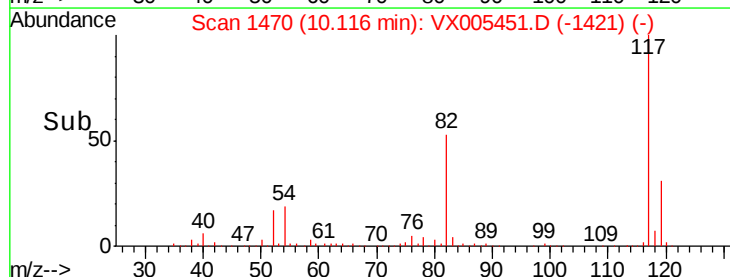
119 31.4 29.3 43.9

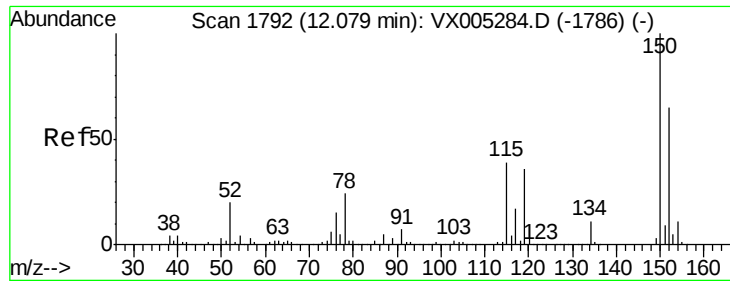


Abundance Ion 116.90 (116.60 to 117.60): VX005451.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005451.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005451.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-A

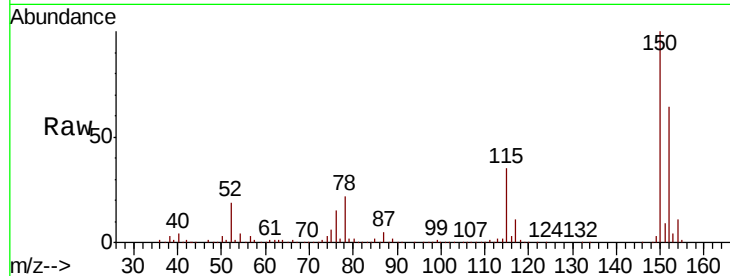
Tot Ion:152 Resp: 179815

Ion Ratio Lower Upper

152 100

115 54.3 39.0 117.0

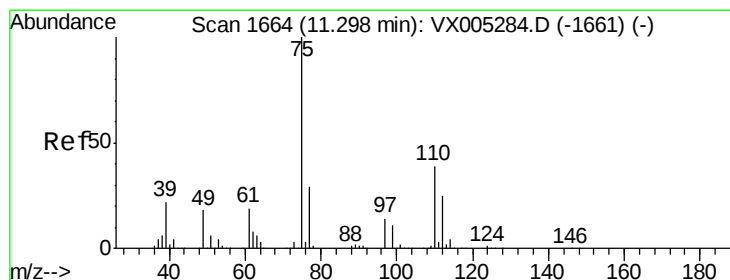
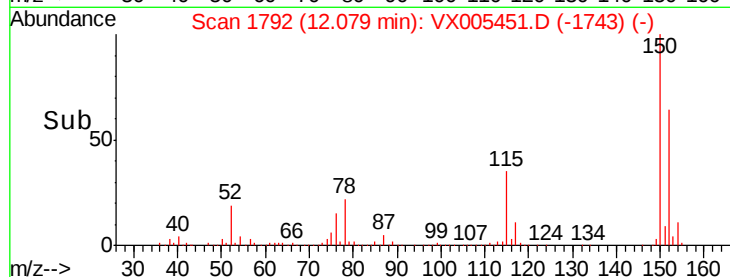
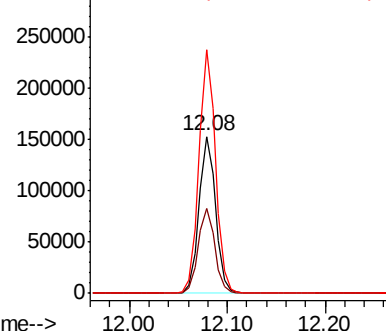
150 155.3 0.0 351.0



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: 22.960 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005451.D

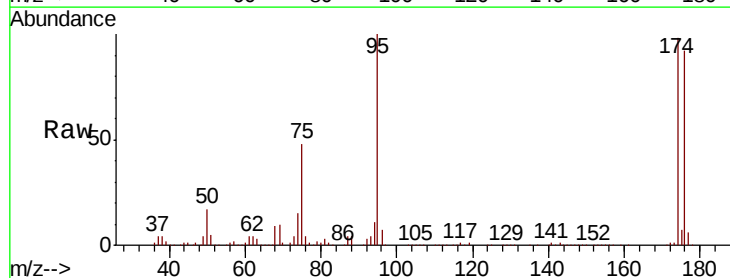
Acq: 19 Oct 2018 12:06

Tgt Ion: 75 Resp: 80083

Ion Ratio Lower Upper

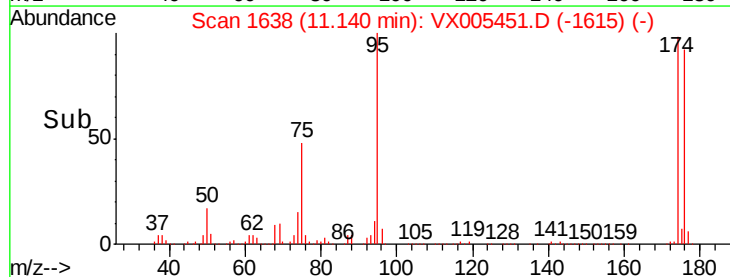
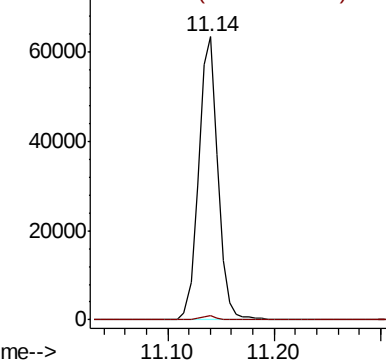
75 100

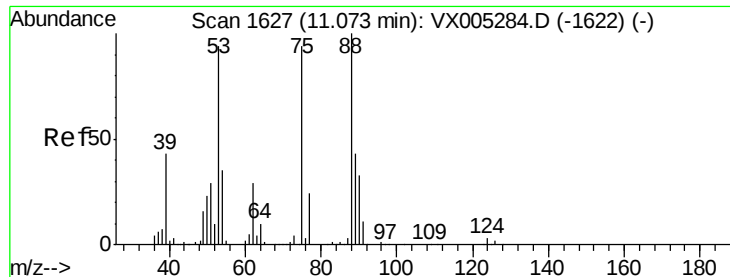
77 1.4 20.2 60.6#



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: 69.764 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-A

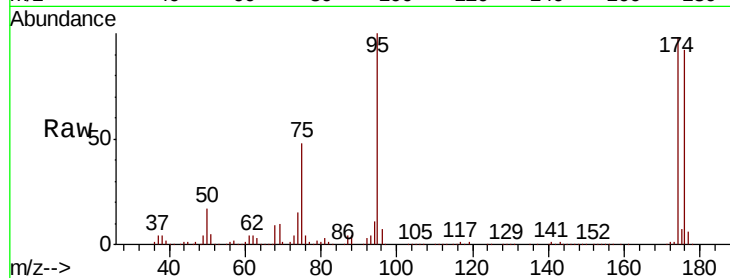
Tot Ion: 75 Resp: 80083

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

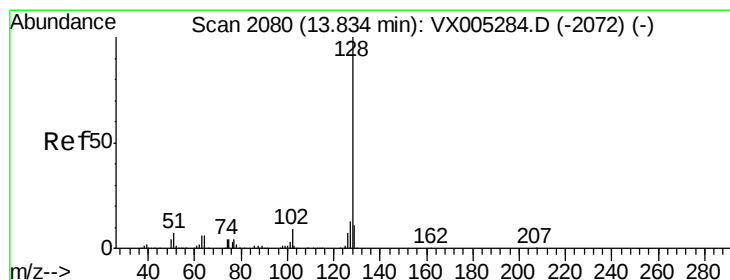
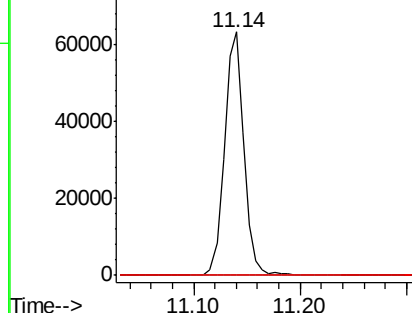
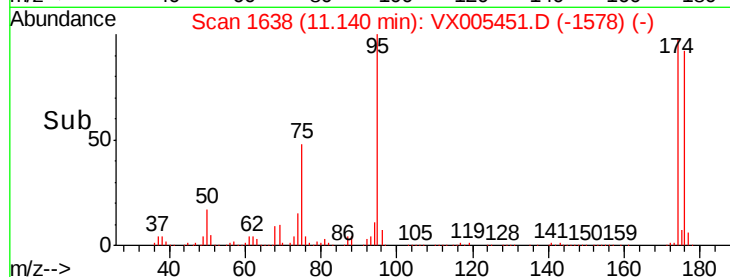
89 0.0 37.2 55.8#



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



#95

Naphthalene

Concen: 0.222 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005451.D

Acq: 19 Oct 2018 12:06

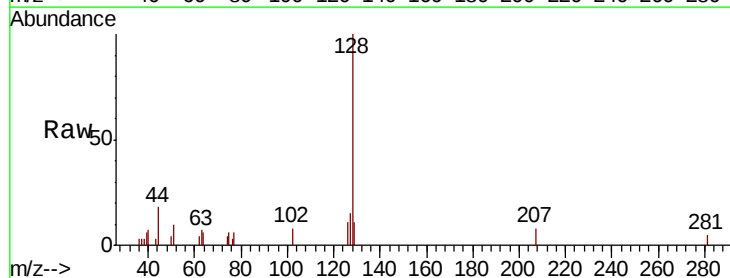
Tgt Ion: 128 Resp: 2748

Ion Ratio Lower Upper

128 100

127 15.5 10.2 15.2#

129 11.7 8.6 12.8



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

