

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071818\
 Data File : VX003455.D
 Acq On : 18 Jul 2018 18:41
 Operator : JC/MD
 Sample : PB111206ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

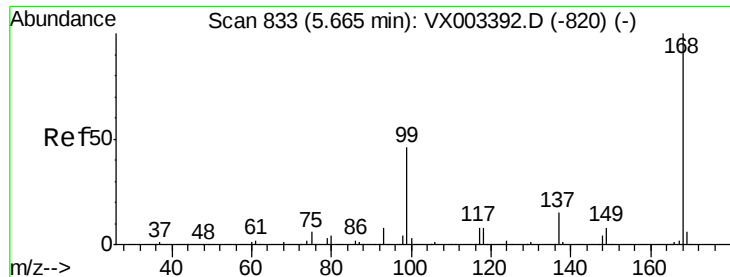
Quant Time: Jul 19 01:43:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	297725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	443531	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	393716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213248	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	182682	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
35) Dibromofluoromethane	5.51	113	163195	45.48	ug/l	0.00
Spiked Amount			Recovery	=	90.96%	
50) Toluene-d8	8.72	98	594569	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	
62) 4-Bromofluorobenzene	11.14	95	205425	43.45	ug/l	0.00
Spiked Amount			Recovery	=	86.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	1926	Below Cal		98
6) Chloroethane	1.72	64	35	Below Cal	#	43
10) Methyl Iodide	2.52	142	1404	0.40	ug/l	95
11) Tert butyl alcohol	3.08	59	345	0.39	ug/l	# 75
13) Acrolein	2.30	56	276	0.66	ug/l	# 27
16) Acetone	2.45	43	19070	11.76	ug/l	# 88
18) Methyl Acetate	2.78	43	7884	1.49	ug/l	93
20) Methylene Chloride	2.86	84	6716	Below Cal		93
25) 2-Butanone	4.71	43	4068	1.60	ug/l	# 82
29) Tetrahydrofuran	5.18	42	1711	1.06	ug/l	91
36) 1,1-Dichloropropene	5.66	75	18100	4.03	ug/l	# 50
37) Ethyl Acetate	4.71	43	4222	0.83	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	25677	5.62	ug/l	# 16
41) Methacrylonitrile	5.17	41	1154	0.41	ug/l	# 50
43) Isopropyl Acetate	6.47	43	152767	20.00	ug/l	94
48) Methyl methacrylate	7.69	41	8895	2.28	ug/l	# 23
51) 4-Methyl-2-Pentanone	8.62	43	3562	0.71	ug/l	# 39
53) t-1,3-Dichloropropene	8.63	75	1590	0.31	ug/l	# 43
59) 2-Hexanone	9.55	43	14344	3.71	ug/l	# 60
74) N-amyl acetate	6.47	43	152767	23.26	ug/l	# 94
76) 1,2,3-Trichloropropane	11.14	75	99154	25.68	ug/l	# 33
80) 1,3,5-Trimethylbenzene	11.51	105	2446	0.22	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	99154	83.44	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	331	0.35	ug/l	# 1

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003455.D

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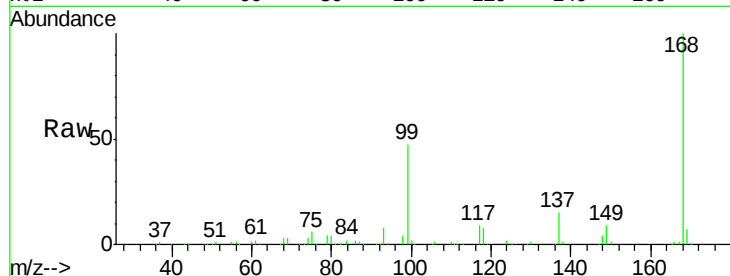
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 297725

Ion Ratio Lower Upper

168 100

99 46.6 39.3 58.9



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

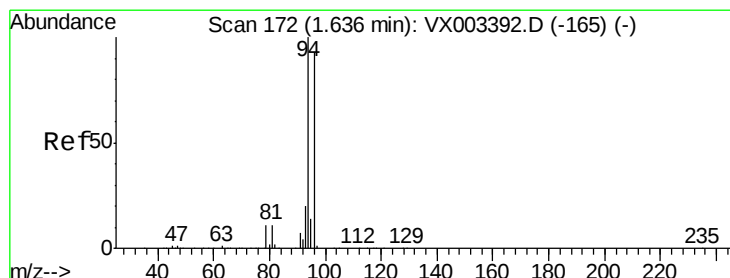
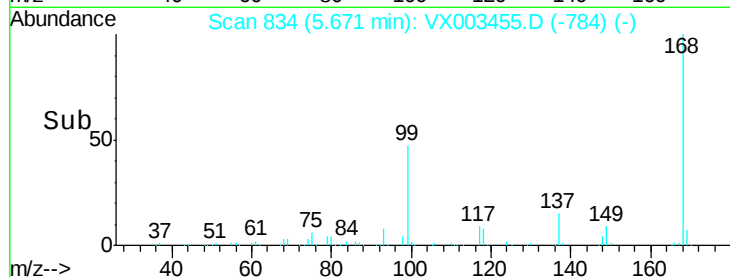
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003455.D

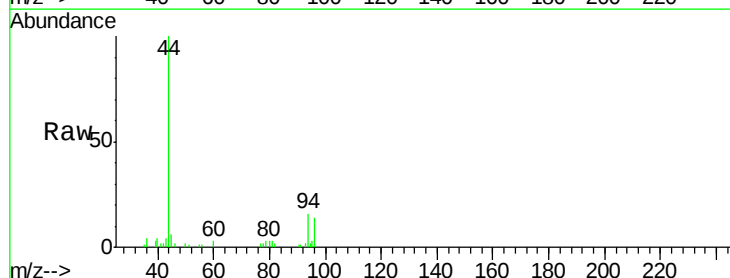
Acq: 18 Jul 2018 18:41

Tgt Ion: 94 Resp: 1926

Ion Ratio Lower Upper

94 100

96 91.2 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

800

600

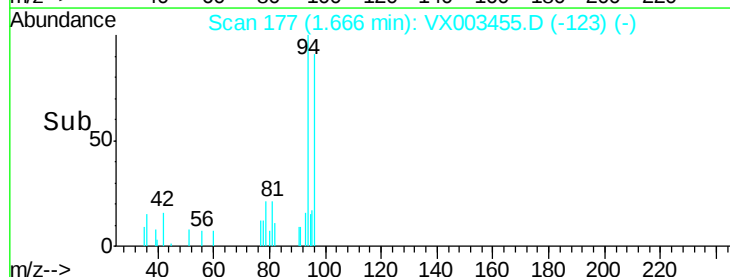
400

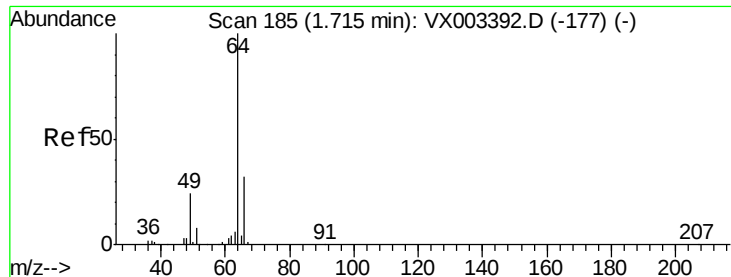
200

0

Time-->

1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

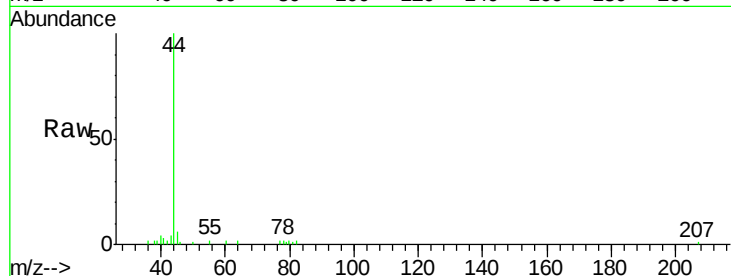
ClientSampled :

Tot Ion: 64 Resp: 35

Ion Ratio Lower Upper

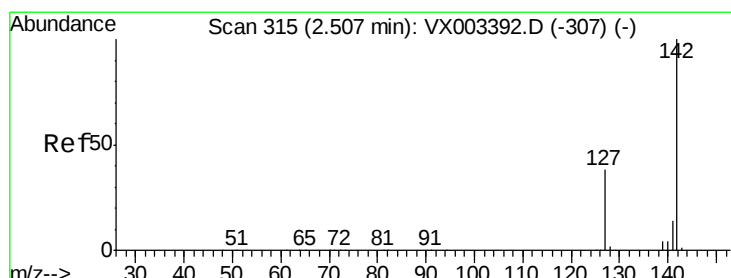
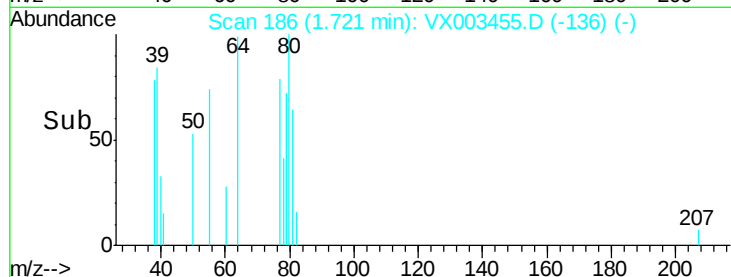
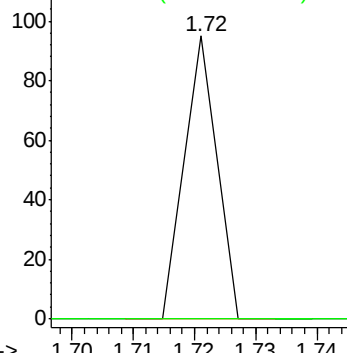
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.40 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

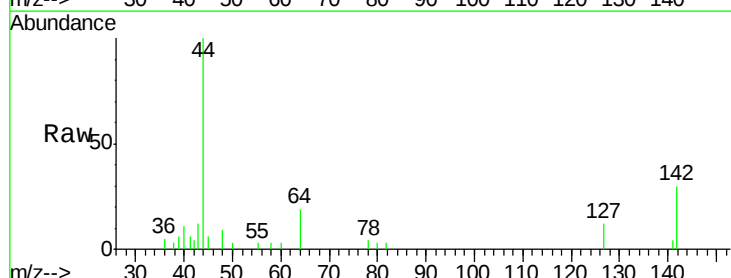
Tgt Ion: 142 Resp: 1404

Ion Ratio Lower Upper

142 100

127 42.1 36.6 55.0

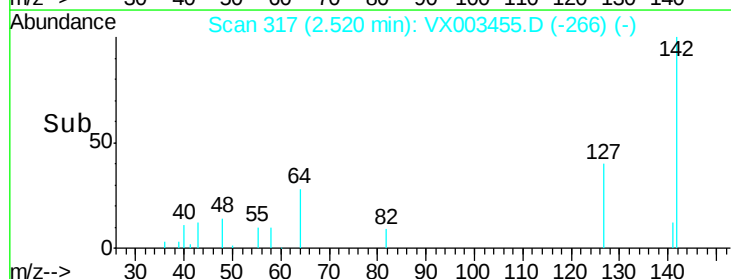
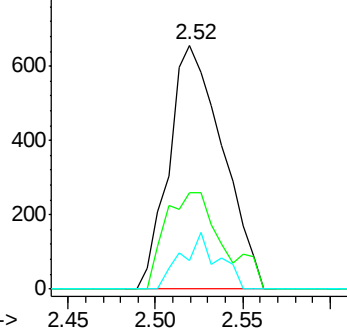
141 15.5 11.3 16.9

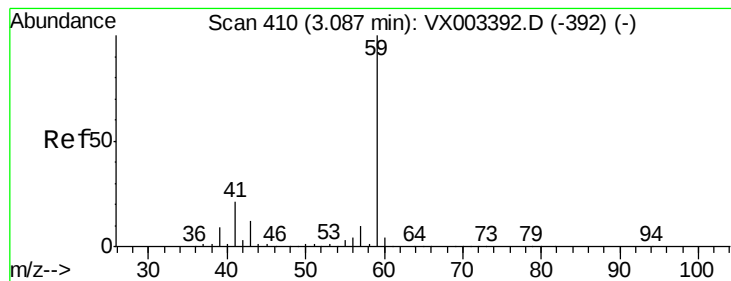


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



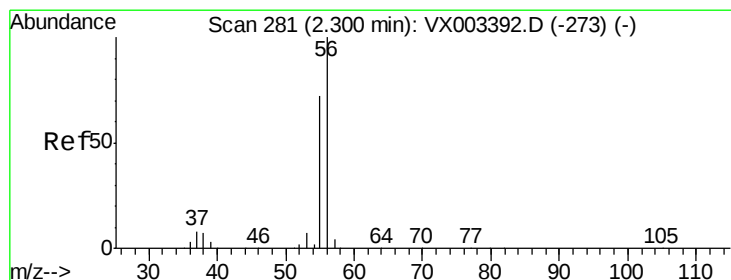
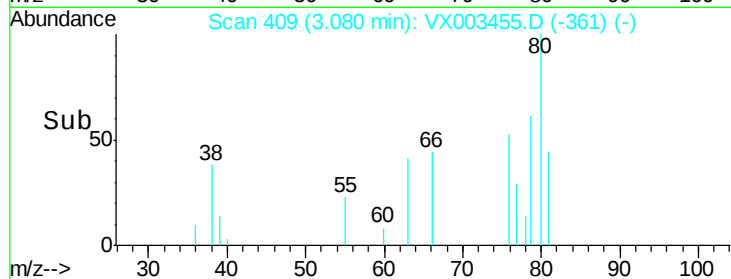
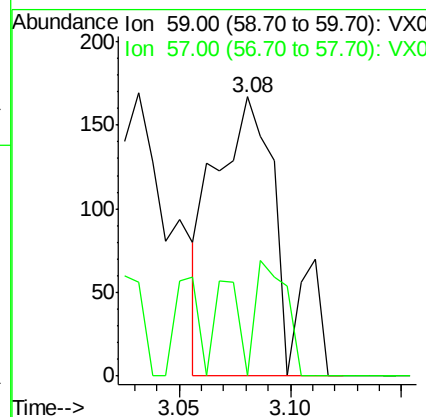
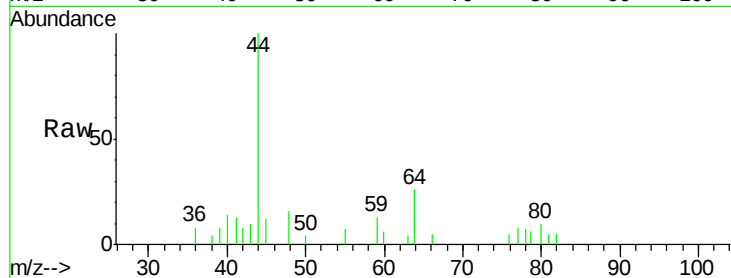


#11

Tert butyl alcohol
 Concen: 0.39 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

Instrument :
 MSVOA_X
 ClientSampleId :

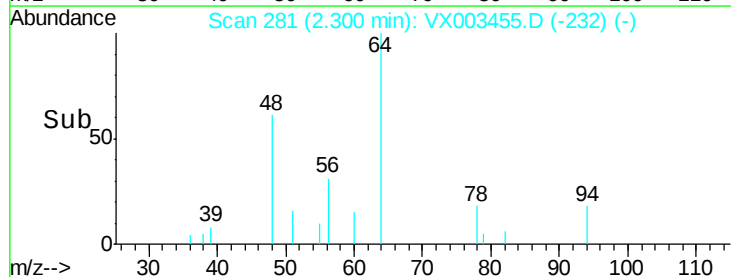
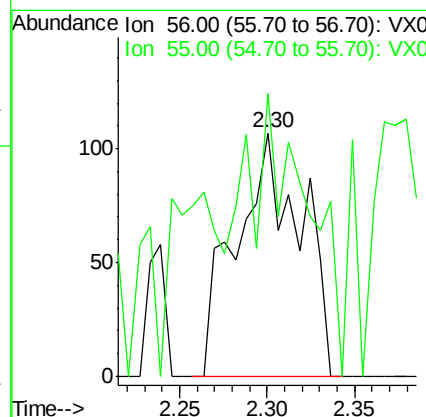
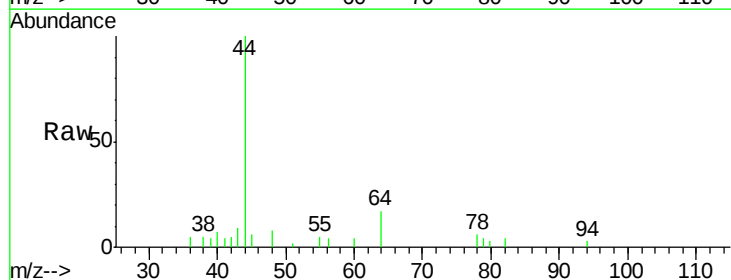
Tot Ion: 59 Resp: 345
 Ion Ratio Lower Upper
 59 100
 57 19.4 8.2 12.2#

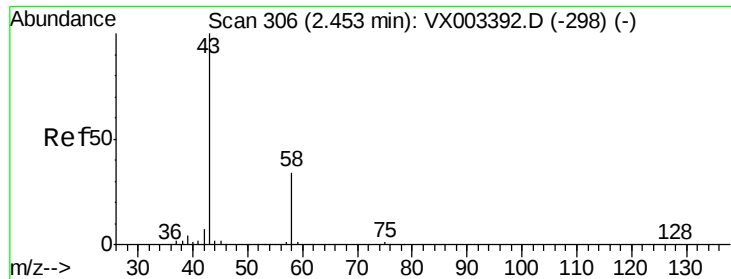


#13

Acrolein
 Concen: 0.66 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. -0.00 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

Tgt Ion: 56 Resp: 276
 Ion Ratio Lower Upper
 56 100
 55 10.5 57.0 85.4#





#16

Acetone

Concen: 11.76 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

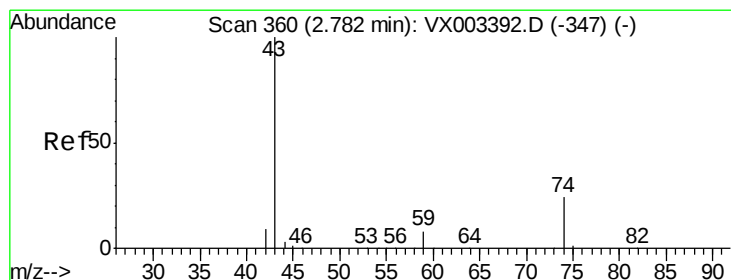
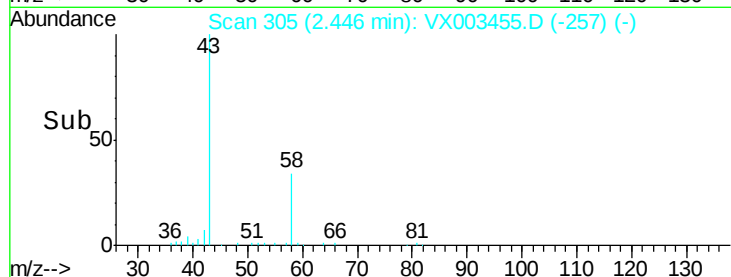
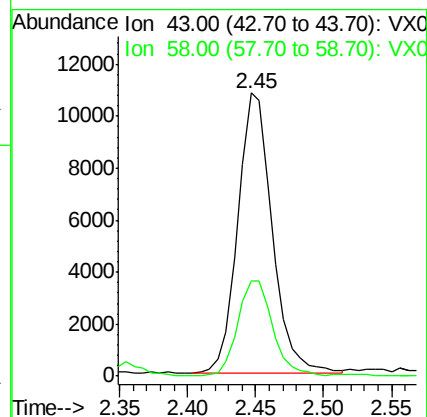
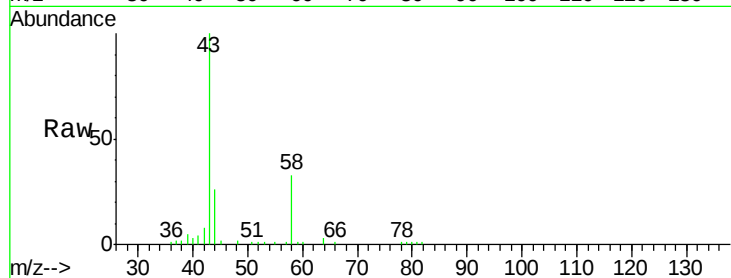
ClientSampleId :

Tot Ion: 43 Resp: 19070

Ion Ratio Lower Upper

43 100

58 33.8 22.1 33.1#



#18

Methyl Acetate

Concen: 1.49 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003455.D

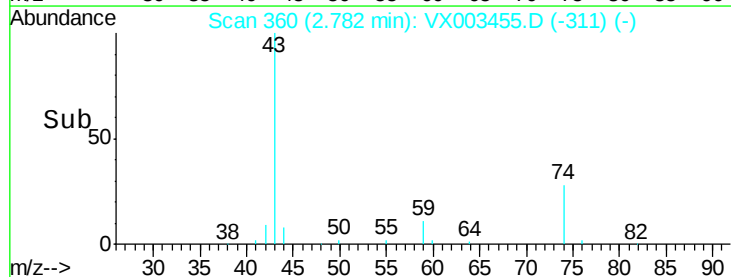
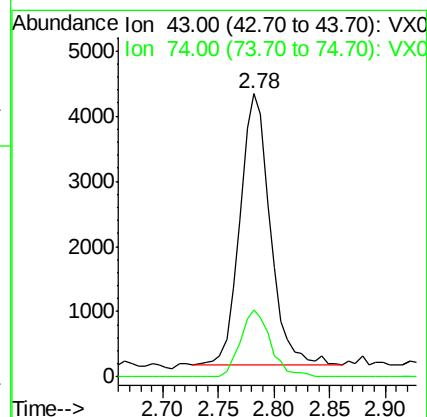
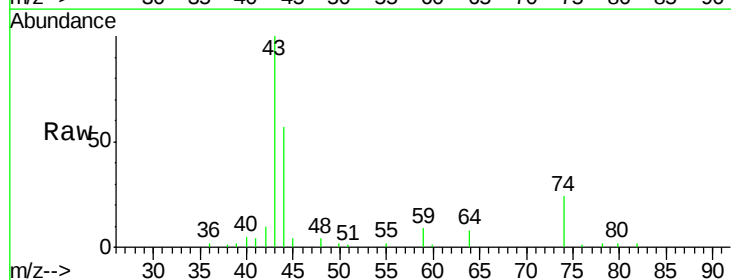
Acq: 18 Jul 2018 18:41

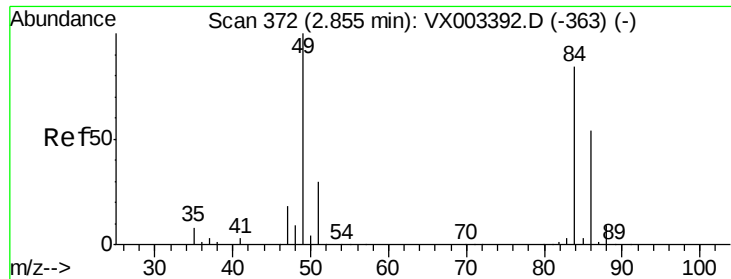
Tgt Ion: 43 Resp: 7884

Ion Ratio Lower Upper

43 100

74 24.3 16.7 25.1

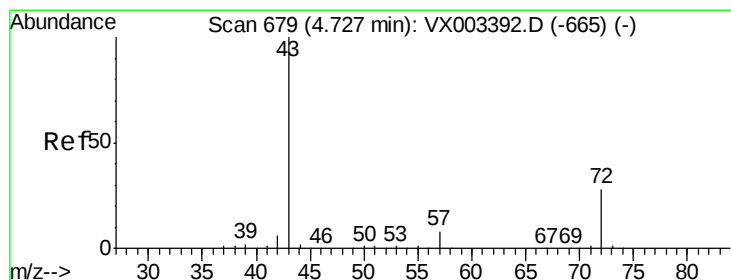
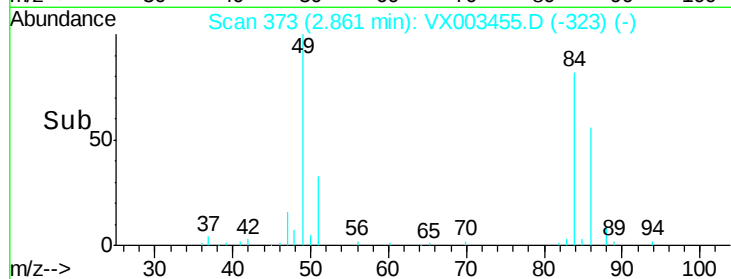
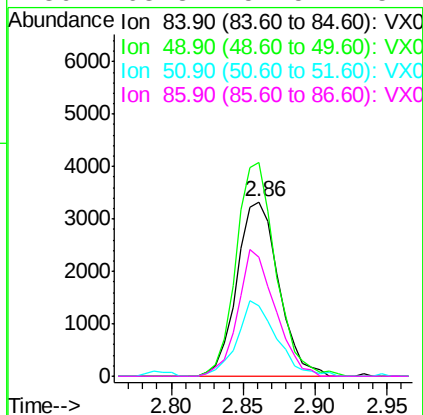
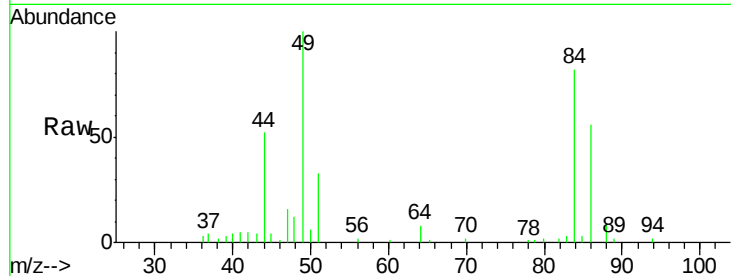




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003455.D
Acq: 18 Jul 2018 18:41

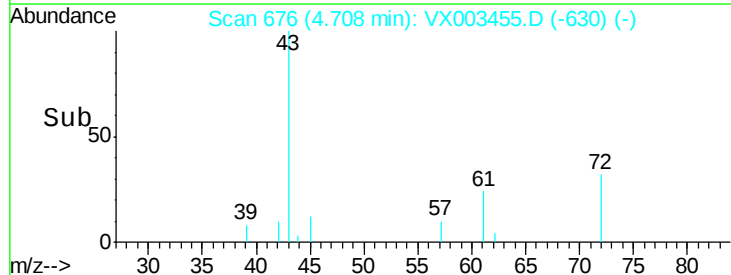
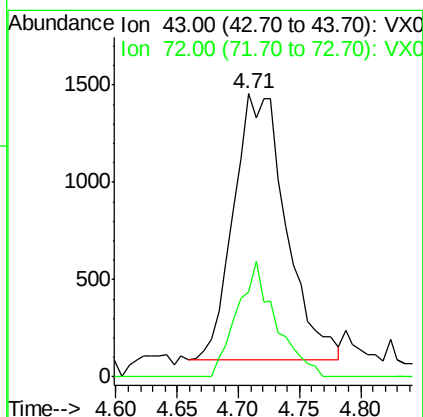
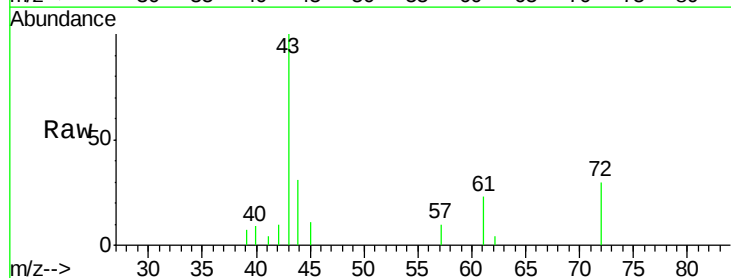
Instrument :
MSVOA_X
ClientSampleId :

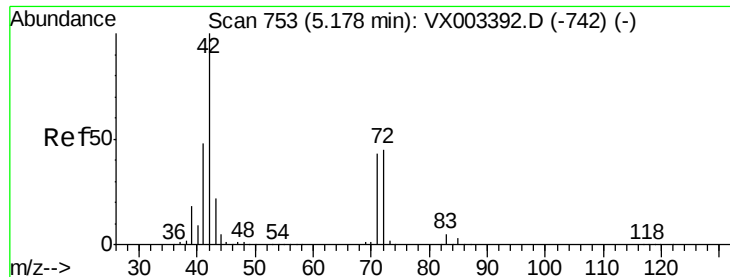
Tot Ion: 84 Resp: 6716
Ion Ratio Lower Upper
84 100
49 122.3 107.8 161.6
51 40.6 32.8 49.2
86 68.3 52.5 78.7



#25
2-Butanone
Concen: 1.60 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.02 min
Lab File: VX003455.D
Acq: 18 Jul 2018 18:41

Tgt Ion: 43 Resp: 4068
Ion Ratio Lower Upper
43 100
72 32.0 18.5 27.7#

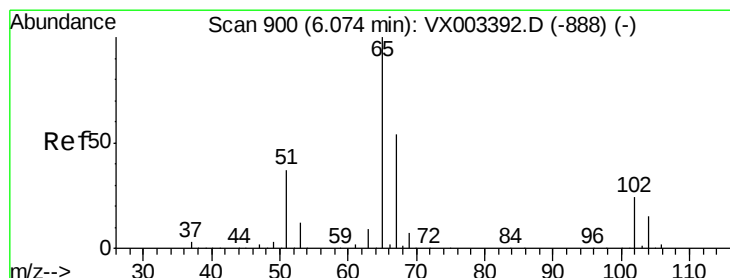
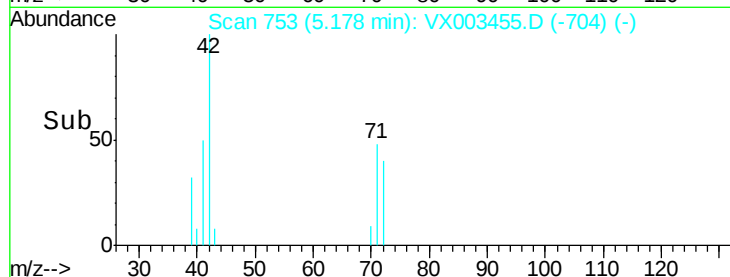
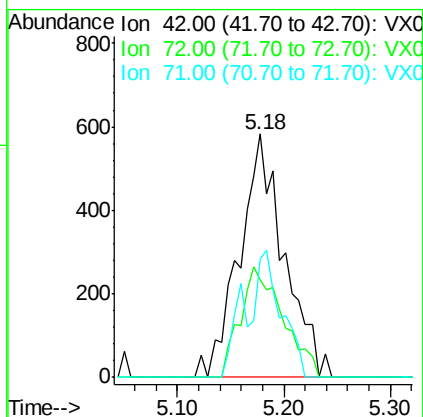
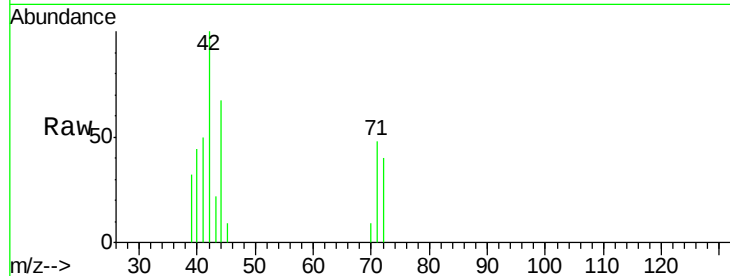




#29
Tetrahydrofuran
Concen: 1.06 ug/l
RT: 5.18 min Scan# 753
Delta R.T. -0.00 min
Lab File: VX003455.D
Acq: 18 Jul 2018 18:41

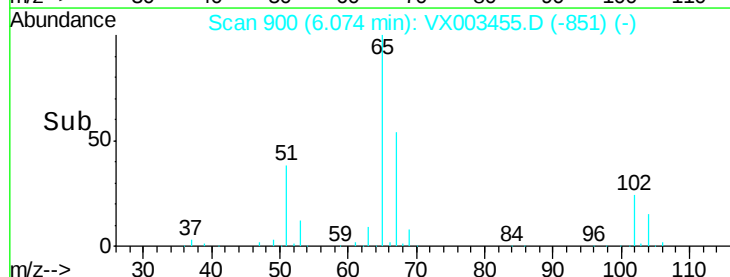
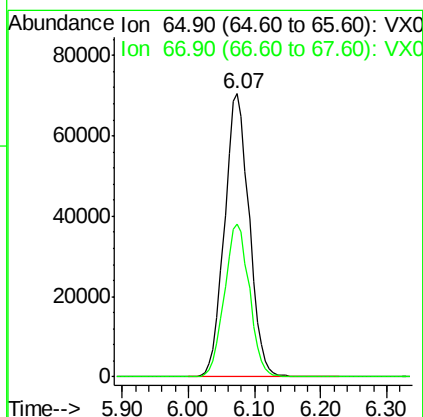
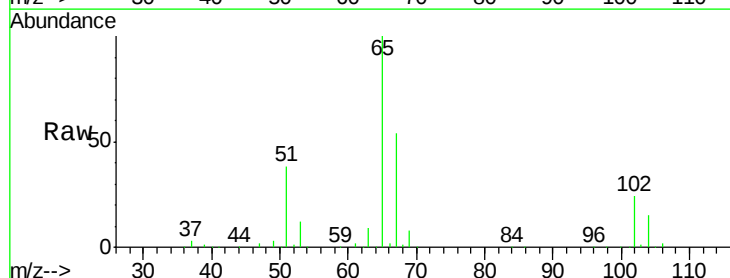
Instrument :
MSVOA_X
ClientSampleId :

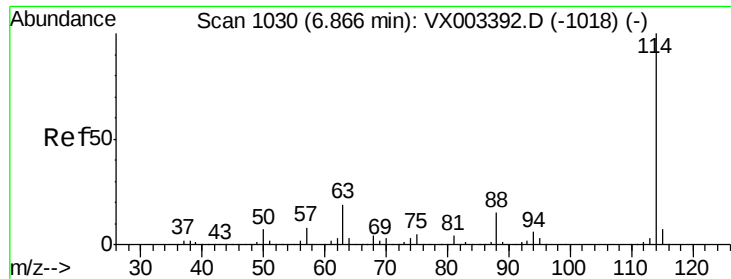
Tot Ion: 42 Resp: 1711
Ion Ratio Lower Upper
42 100
72 43.7 32.0 48.0
71 30.3 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 46.85 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX003455.D
Acq: 18 Jul 2018 18:41

Tgt Ion: 65 Resp: 182682
Ion Ratio Lower Upper
65 100
67 54.5 0.0 102.6

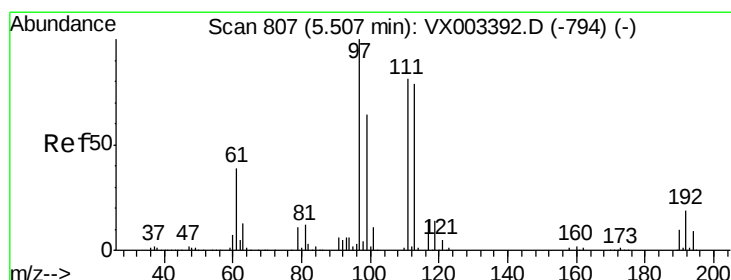
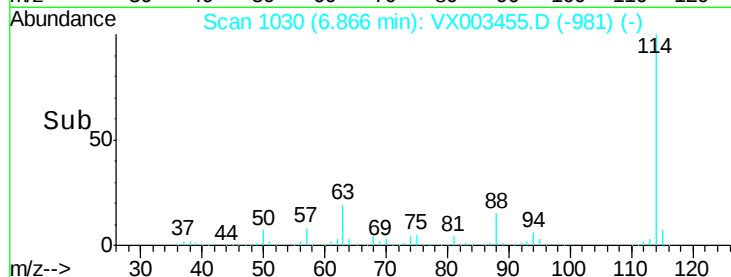
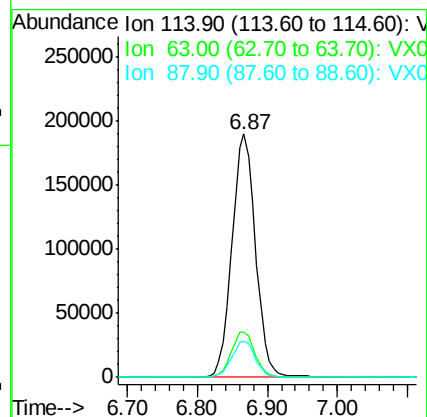
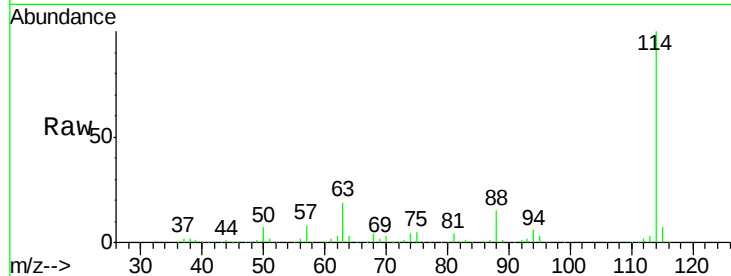




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

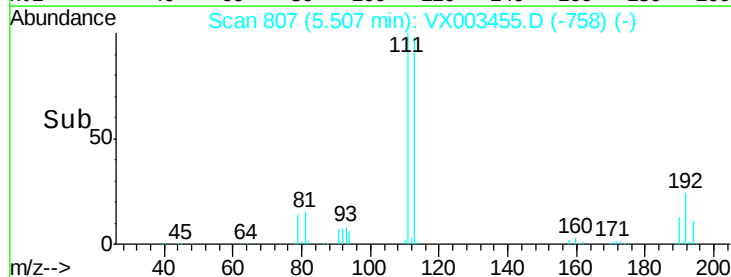
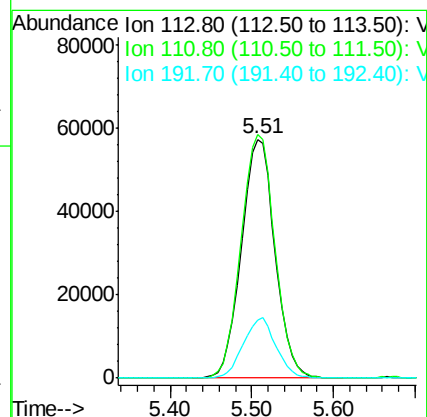
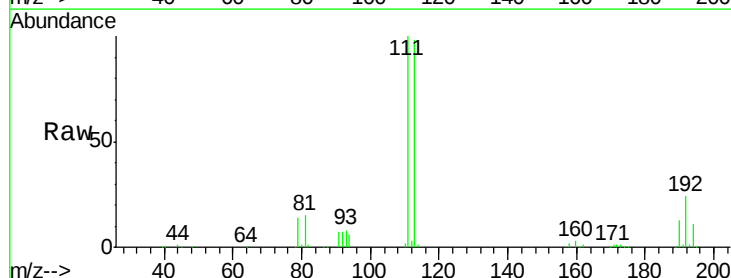
Instrument :
 MSVOA_X
 ClientSampleId :

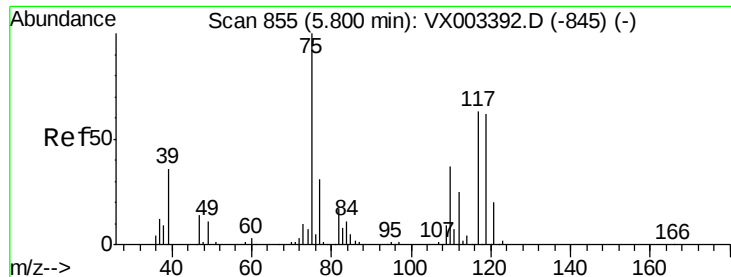
Tot Ion:114 Resp: 443531
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 41.4
 88 14.9 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 45.48 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

Tgt Ion:113 Resp: 163195
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.4 122.0
 192 24.7 19.1 28.7





#36

1,1-Dichloropropene

Concen: 4.03 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

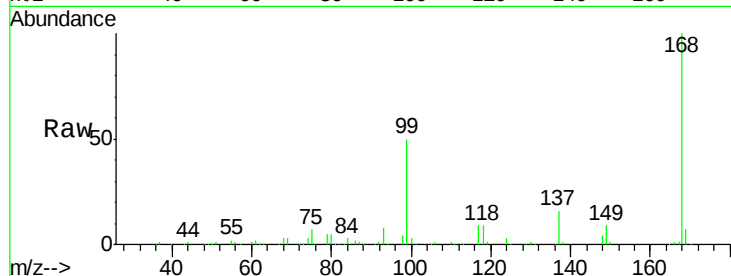
Tot Ion: 75 Resp: 18100

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.4#

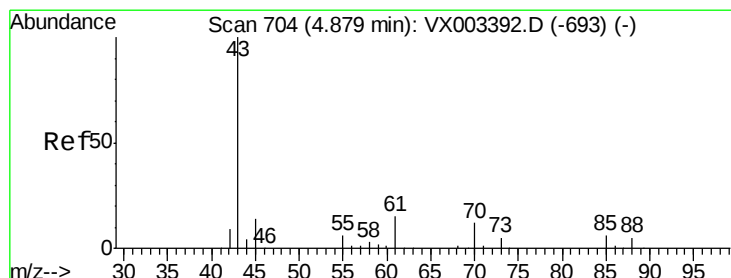
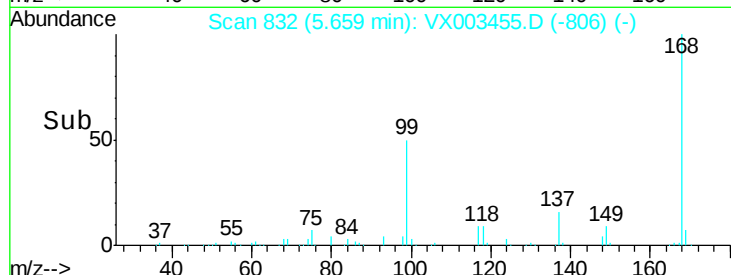
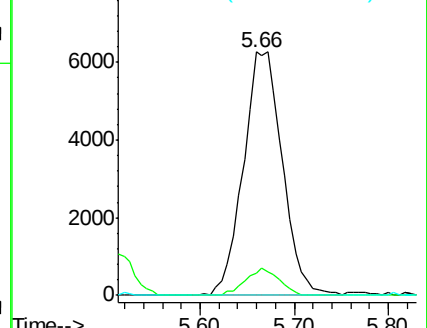
77 0.0 24.3 36.5#



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



#37

Ethyl Acetate

Concen: 0.83 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.17 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

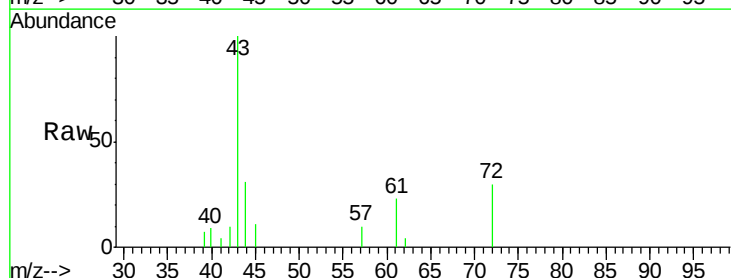
Tgt Ion: 43 Resp: 4222

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

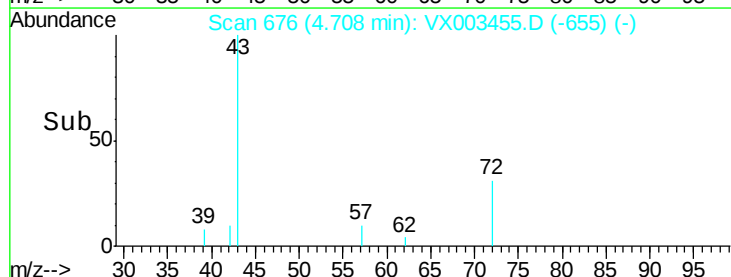
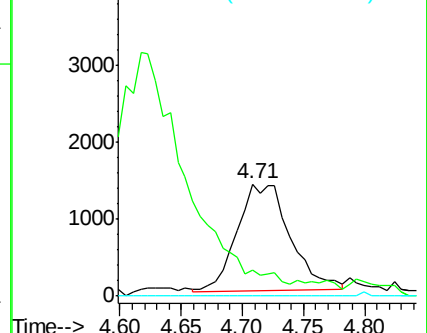
70 0.0 7.6 11.4#

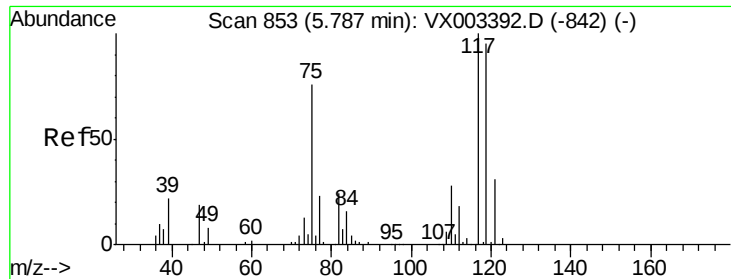


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.62 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

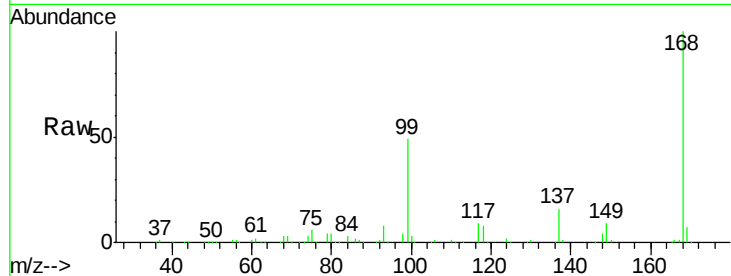
Tot Ion:117 Resp: 25677

Ion Ratio Lower Upper

117 100

119 5.4 77.4 116.0#

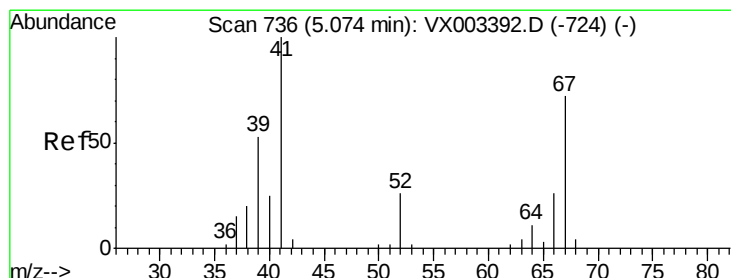
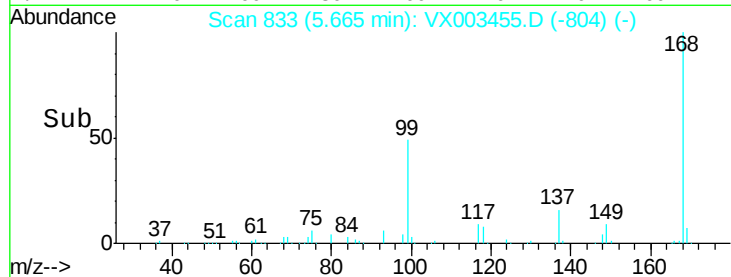
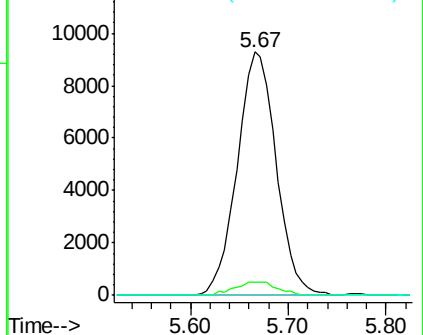
121 0.0 24.4 36.6#



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: 0.41 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.10 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Tgt Ion: 41 Resp: 1154

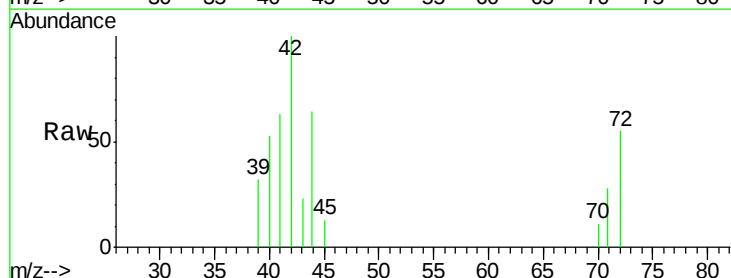
Ion Ratio Lower Upper

41 100

39 49.1 45.8 68.6

67 0.0 51.3 76.9#

52 0.0 23.0 34.6#

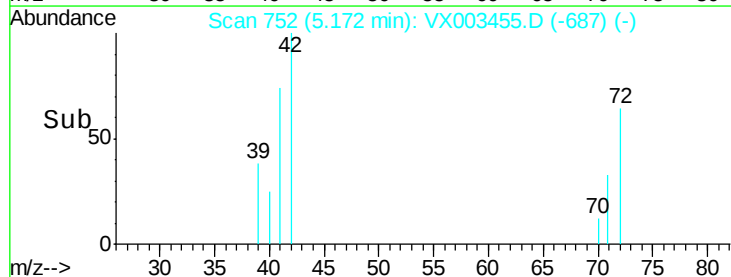
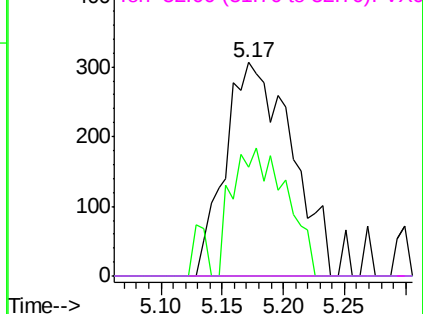


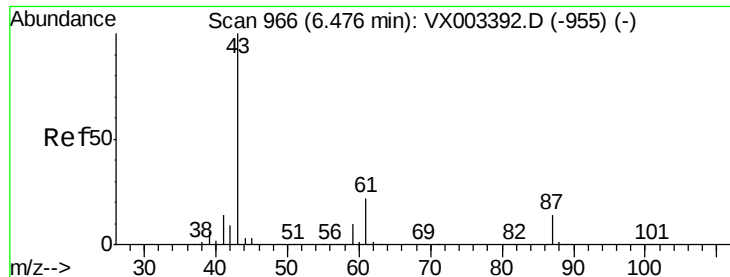
Abundance Ion 41.00 (40.70 to 41.70): VX0

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



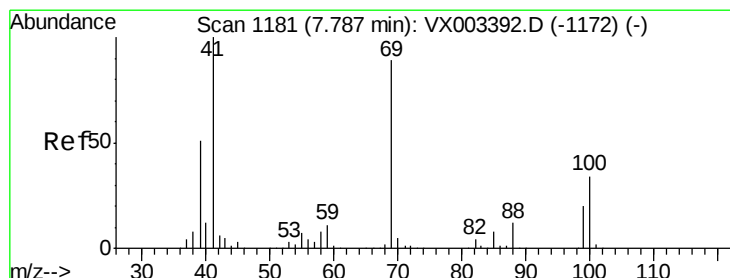
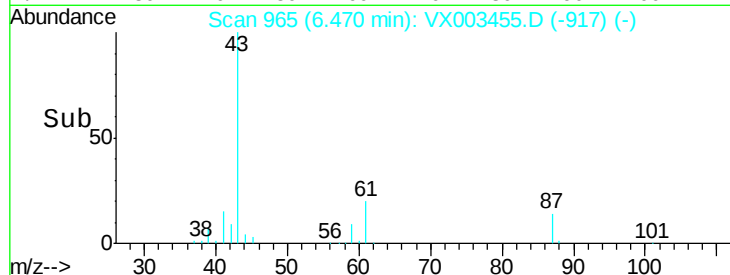
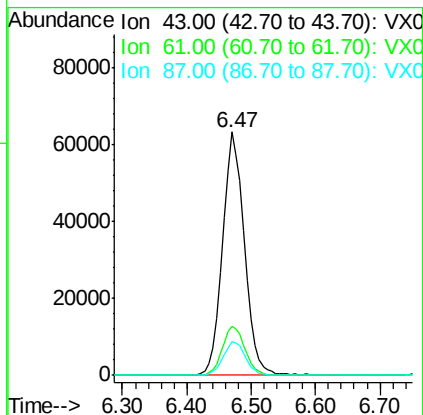
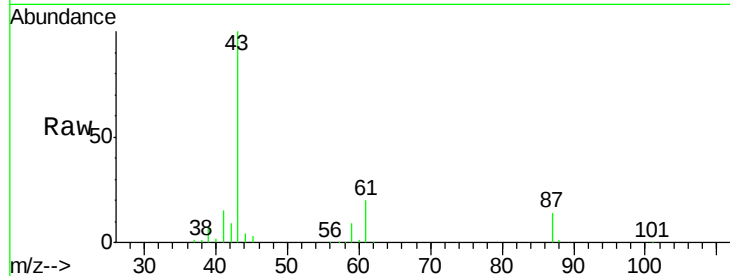


#43

Isopropyl Acetate
 Concen: 20.00 ug/l
 RT: 6.47 min Scan# 965
 Delta R.T. -0.01 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

Instrument :
 MSVOA_X
 ClientSampleId :

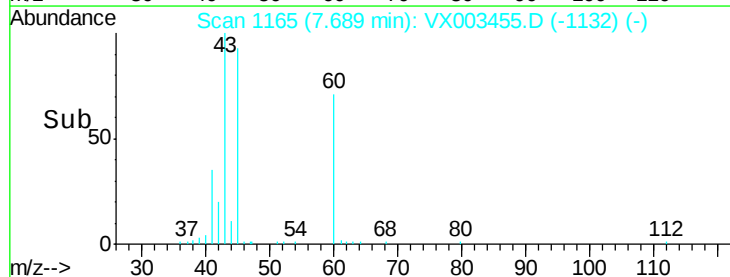
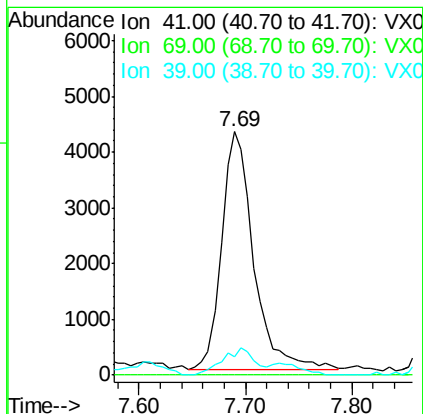
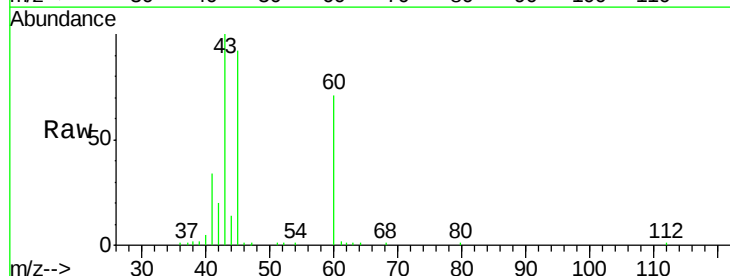
Tot Ion	43	Resp	152767
Ion Ratio	Lower	Upper	
43	100		
61	20.7	14.4	21.6
87	14.2	9.5	14.3

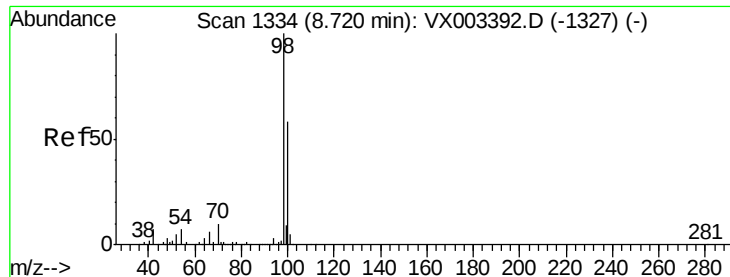


#48

Methyl methacrylate
 Concen: 2.28 ug/l
 RT: 7.69 min Scan# 1165
 Delta R.T. -0.10 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

Tgt Ion	41	Resp	8895
Ion Ratio	Lower	Upper	
41	100		
69	0.0	59.1	88.7#
39	11.4	48.9	73.3#

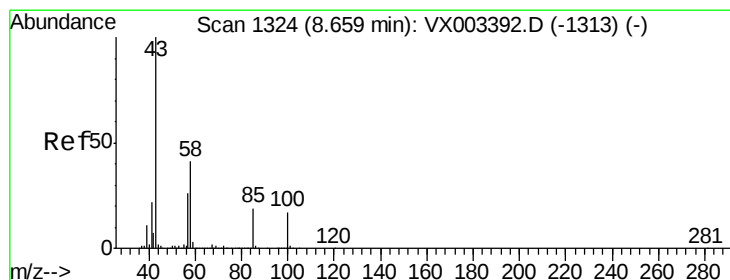
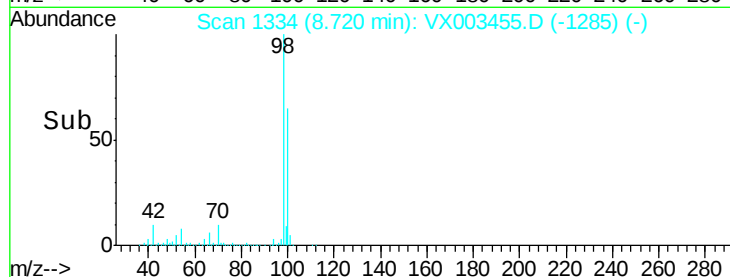
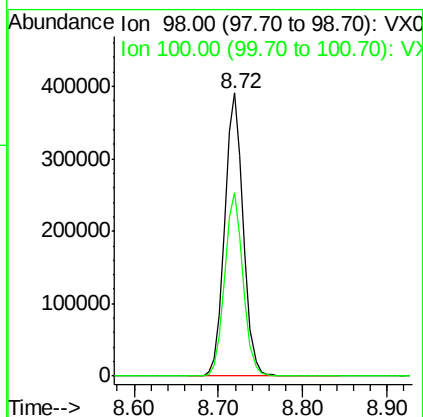
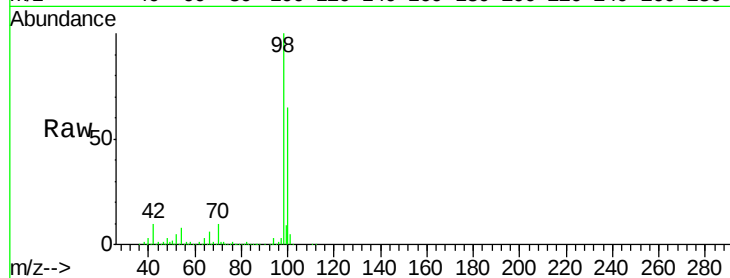




#50
Toluene-d8
Concen: 44.90 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003455.D
Acq: 18 Jul 2018 18:41

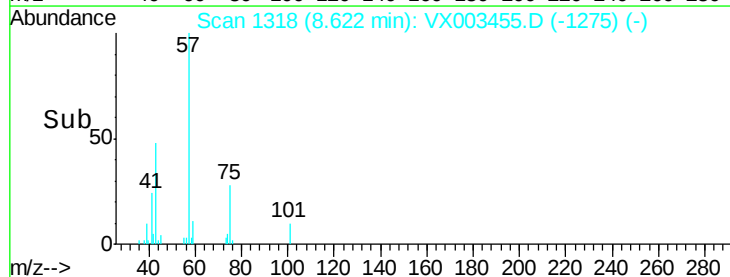
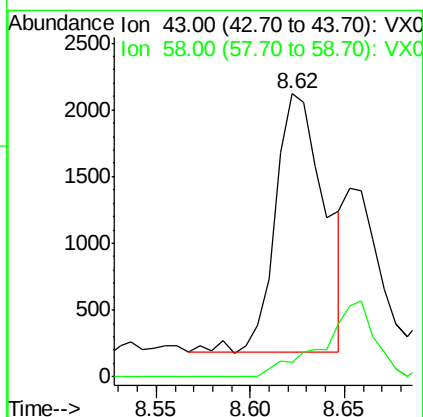
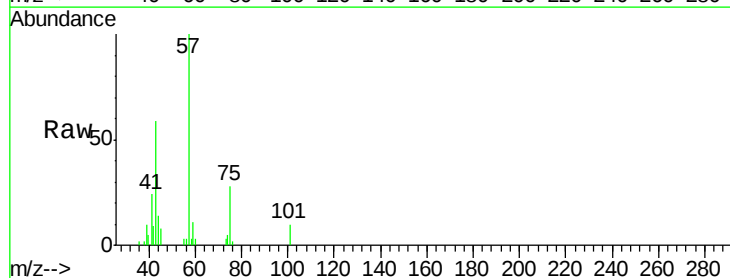
Instrument :
MSVOA_X
ClientSampled :

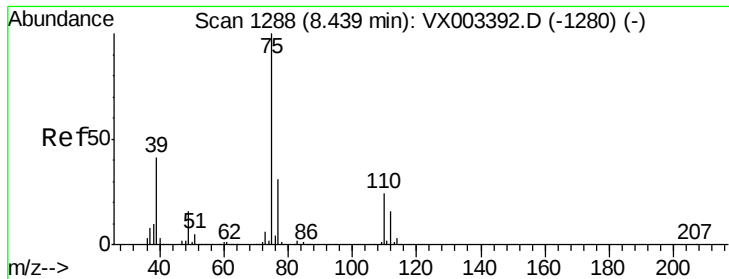
Tot Ion: 98 Resp: 594569
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.71 ug/l
RT: 8.62 min Scan# 1318
Delta R.T. -0.04 min
Lab File: VX003455.D
Acq: 18 Jul 2018 18:41

Tgt Ion: 43 Resp: 3562
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 0.31 ug/l

RT: 8.63 min Scan# 1319

Delta R.T. 0.19 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

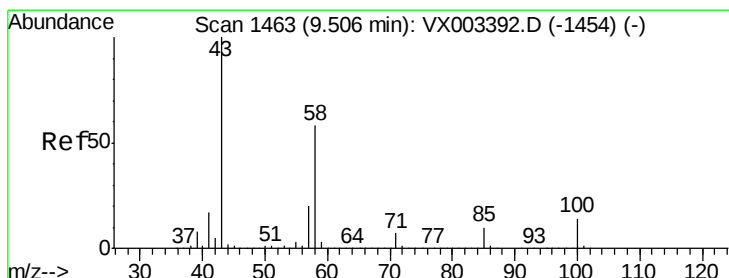
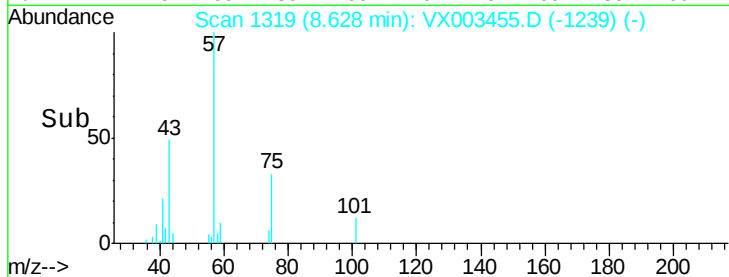
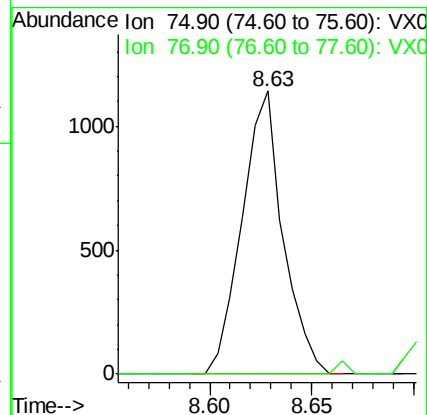
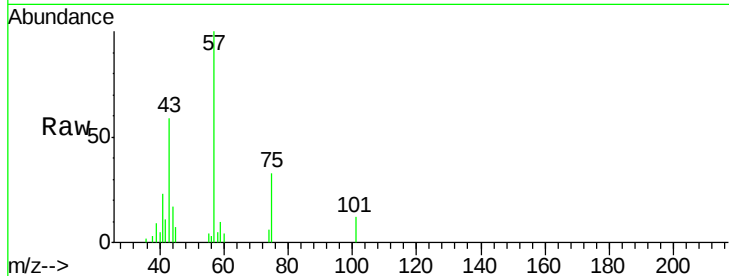
ClientSampleId :

Tot Ion: 75 Resp: 1590

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 3.71 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.04 min

Lab File: VX003455.D

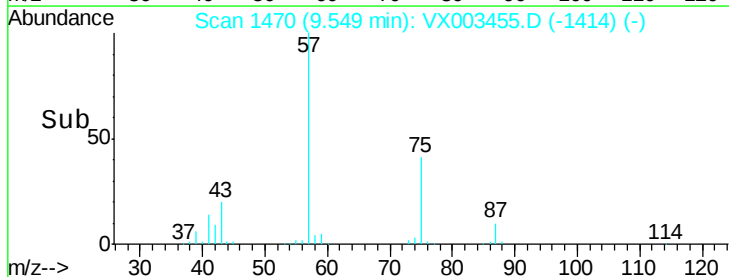
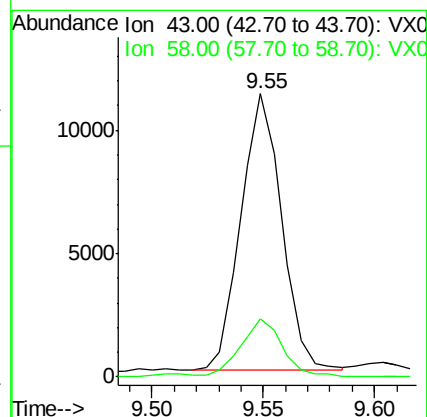
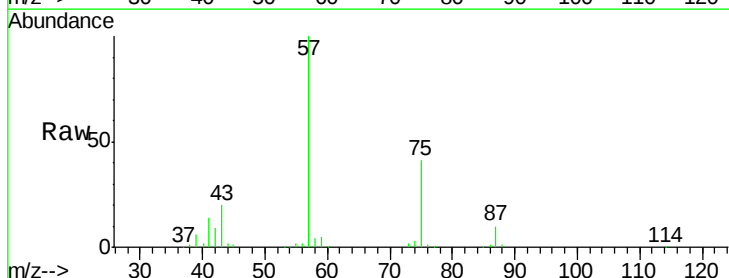
Acq: 18 Jul 2018 18:41

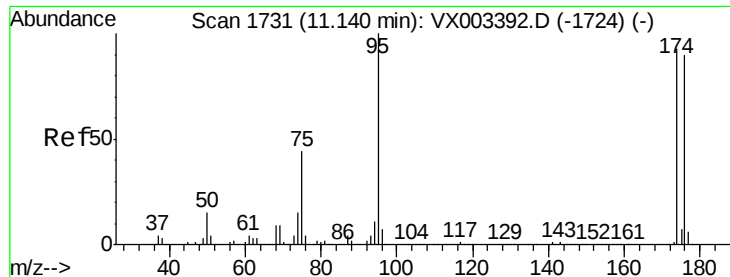
Tgt Ion: 43 Resp: 14344

Ion Ratio Lower Upper

43 100

58 21.6 24.6 73.6#





#62

4-Bromofluorobenzene

Concen: 43.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

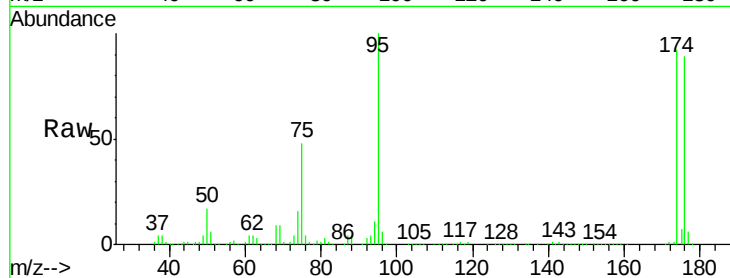
Tot Ion: 95 Resp: 205425

Ion Ratio Lower Upper

95 100

174 95.2 0.0 187.4

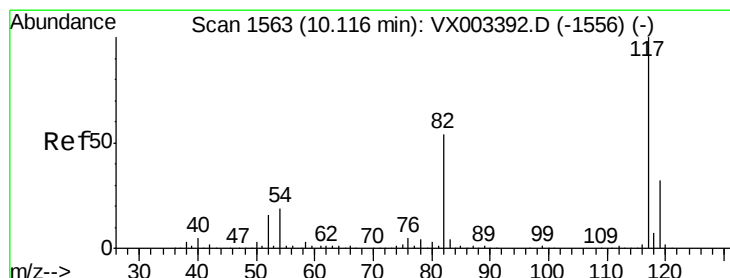
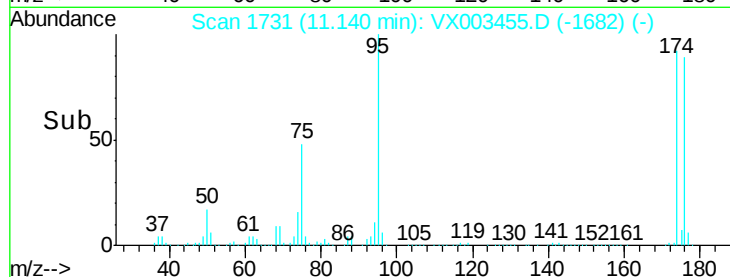
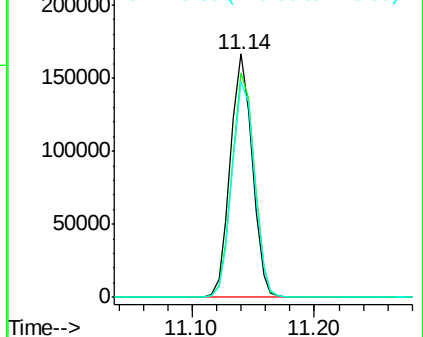
176 91.3 0.0 181.0



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

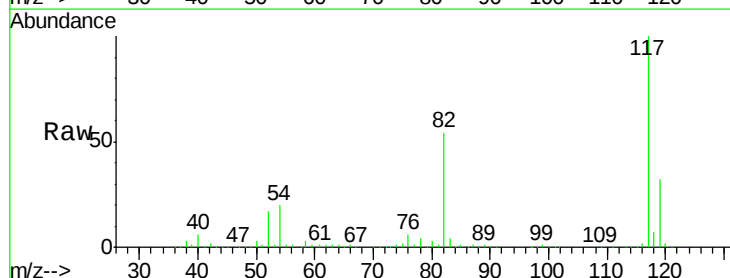
Tgt Ion: 117 Resp: 393716

Ion Ratio Lower Upper

117 100

82 53.8 45.0 67.4

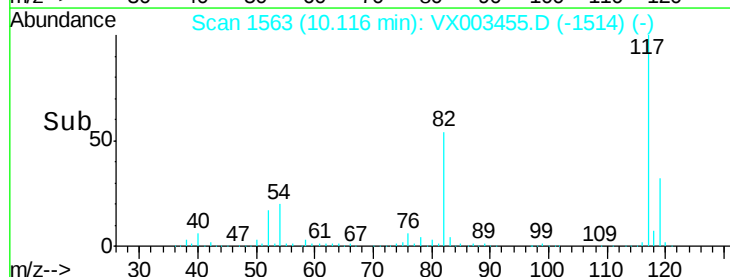
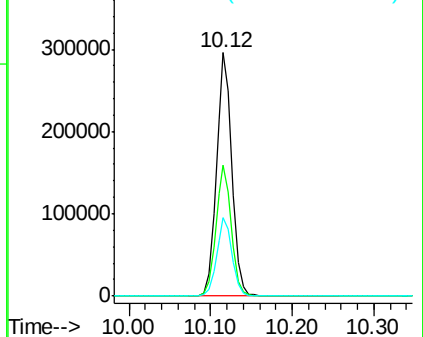
119 32.0 25.8 38.6

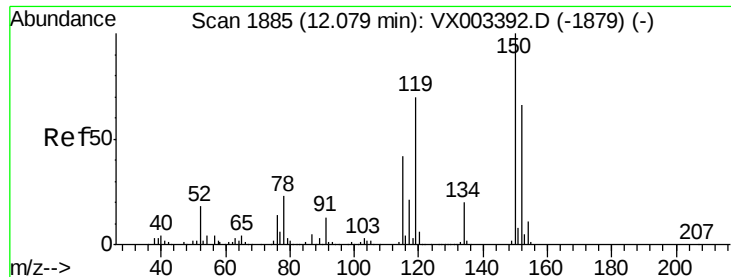


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

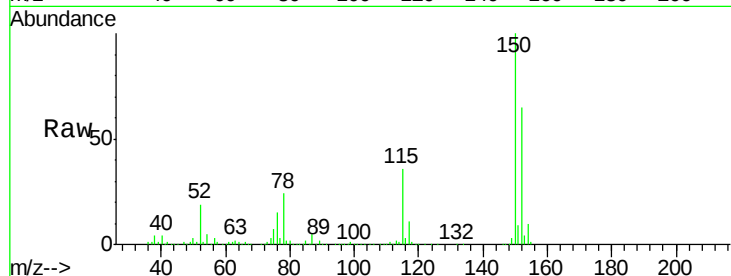
Tot Ion:152 Resp: 213248

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

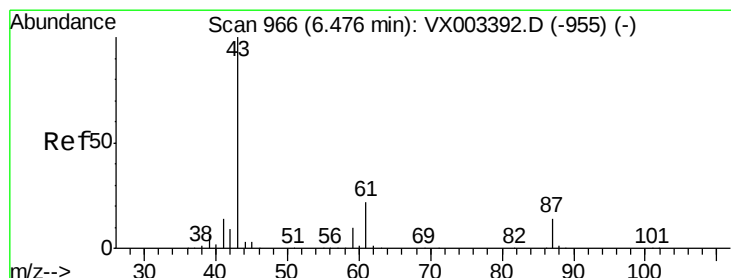
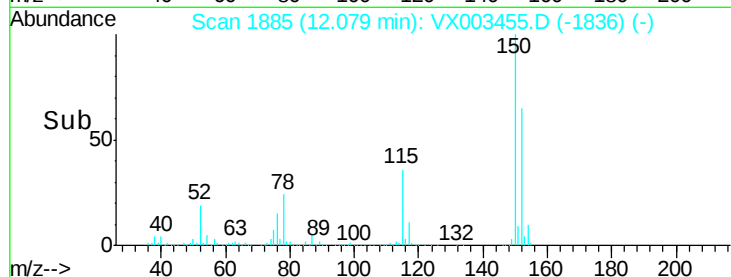
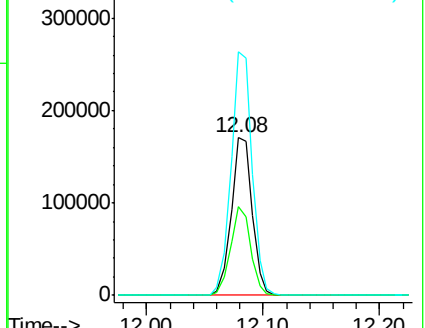
150 155.4 0.0 347.2



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: 23.26 ug/l

RT: 6.47 min Scan# 966

Delta R.T. -0.01 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Tgt Ion: 43 Resp: 152767

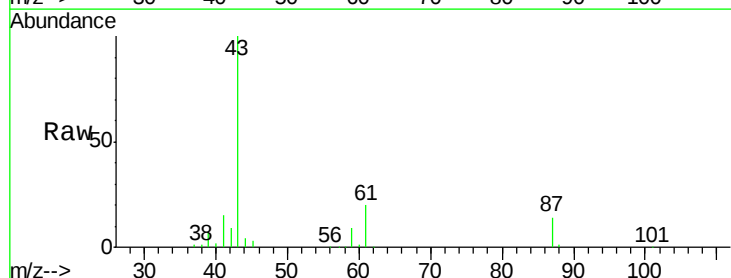
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0#

61 20.7 14.4 21.6

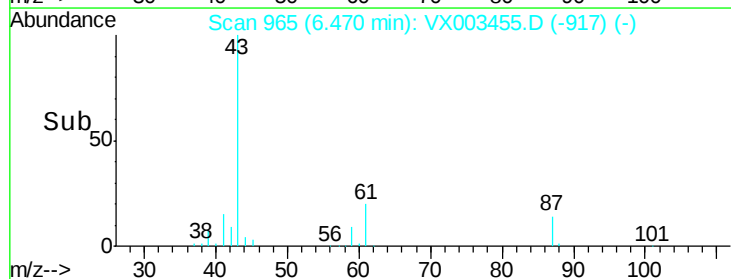
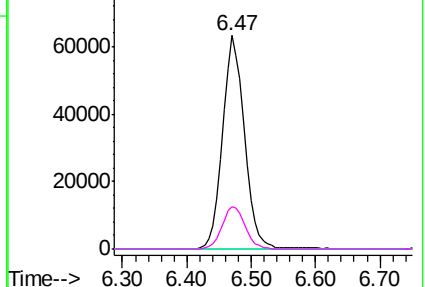


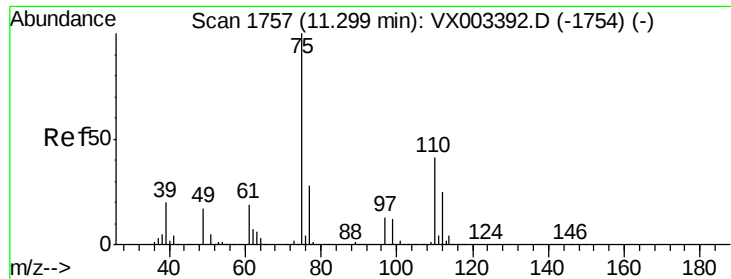
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

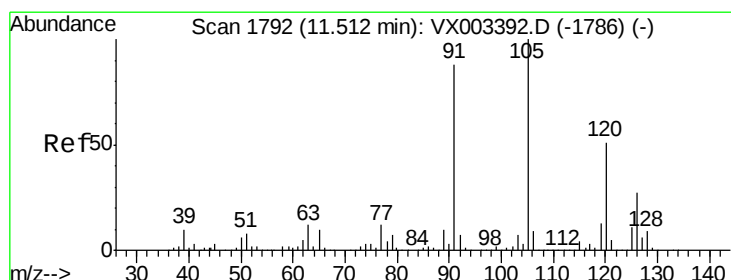
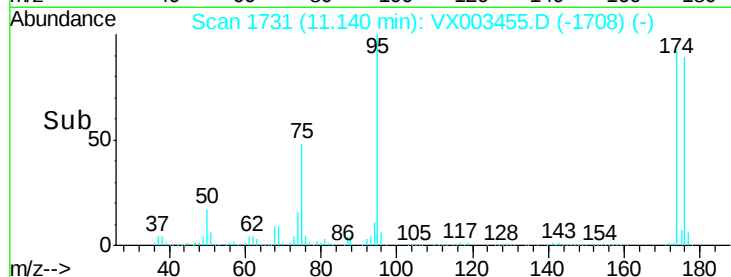
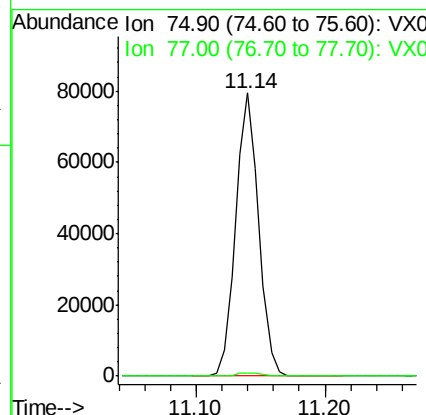
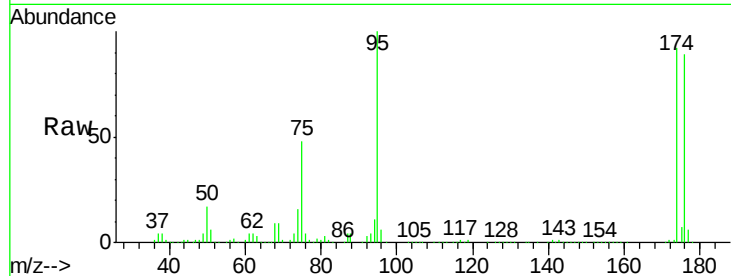




#76
 1,2,3-Trichloropropane
 Concen: 25.68 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

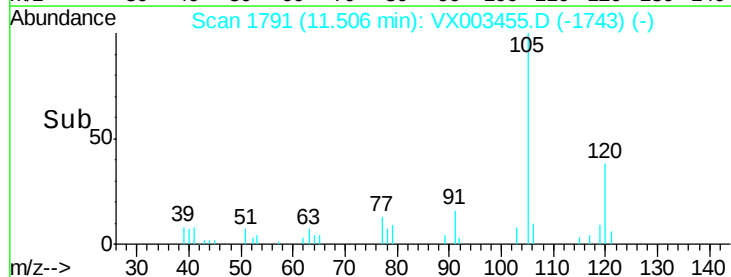
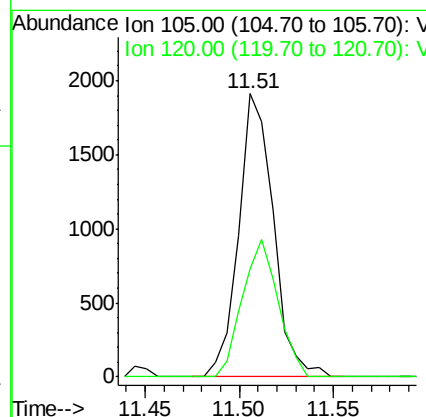
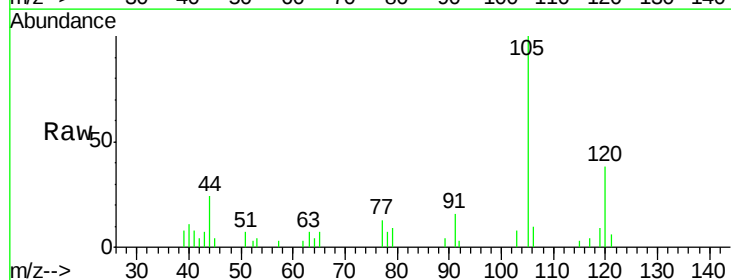
Instrument :
 MSVOA_X
 ClientSampled :

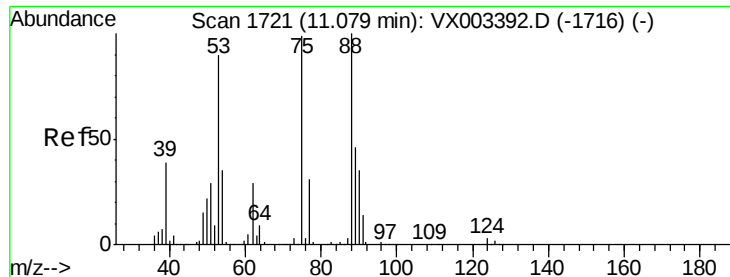
Tot Ion: 75 Resp: 99154
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/l
 RT: 11.51 min Scan# 1791
 Delta R.T. -0.01 min
 Lab File: VX003455.D
 Acq: 18 Jul 2018 18:41

Tgt Ion: 105 Resp: 2446
 Ion Ratio Lower Upper
 105 100
 120 49.8 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 83.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

Instrument :

MSVOA_X

ClientSampled :

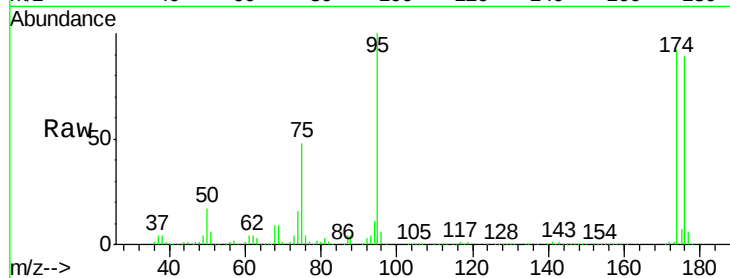
Tot Ion: 75 Resp: 99154

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

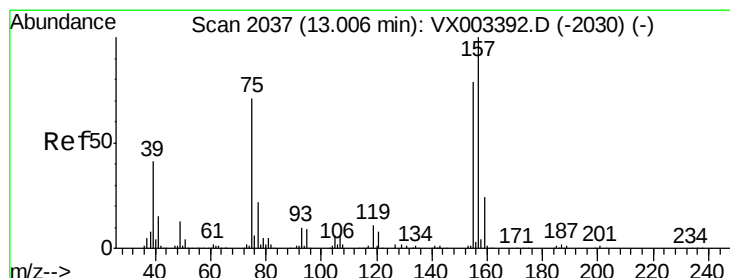
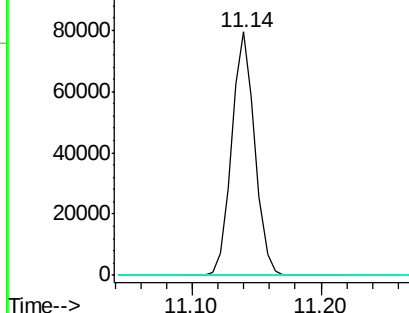
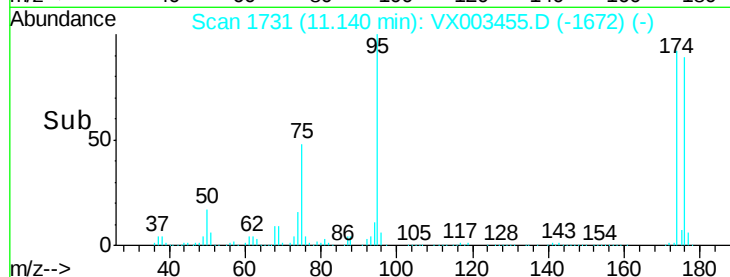
89 0.0 38.2 57.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.35 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX003455.D

Acq: 18 Jul 2018 18:41

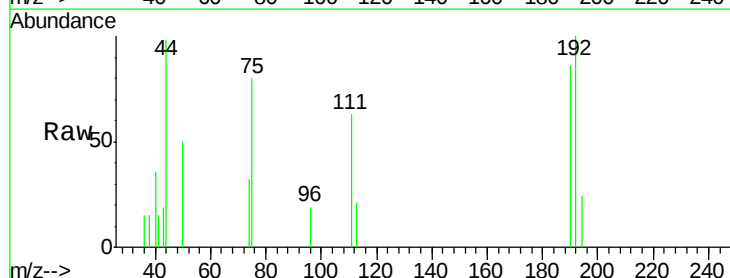
Tgt Ion: 75 Resp: 331

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

