

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071818\
 Data File : VX003454.D
 Acq On : 18 Jul 2018 18:14
 Operator : JC/MD
 Sample : PB111206TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 01:43:14 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	267879	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	405178	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	385590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	211560	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	175259	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	5.51	113	153154	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	8.72	98	581355	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
62) 4-Bromofluorobenzene	11.14	95	199086	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	

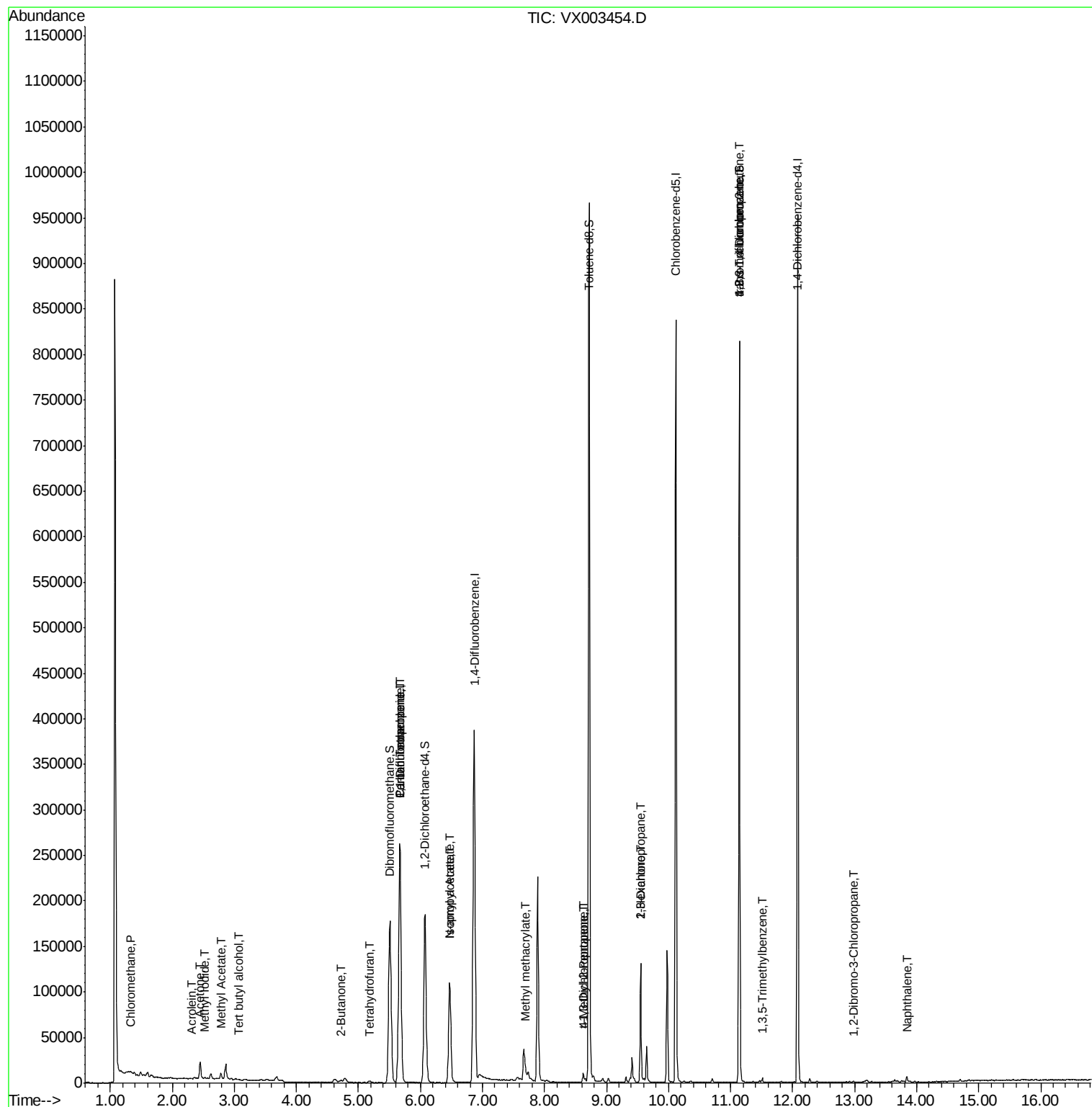
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	814	0.25	ug/l	95
5) Bromomethane	1.65	94	1944	Below Cal		96
6) Chloroethane	1.72	64	67	Below Cal	#	43
10) Methyl Iodide	2.52	142	1606	0.50	ug/l	94
11) Tert butyl alcohol	3.07	59	332	0.42	ug/l	# 73
13) Acrolein	2.30	56	164	0.43	ug/l	# 14
16) Acetone	2.45	43	19485	13.35	ug/l	# 89
18) Methyl Acetate	2.78	43	7315	1.54	ug/l	92
20) Methylene Chloride	2.85	84	7379	Below Cal		91
25) 2-Butanone	4.72	43	5002	2.19	ug/l	# 83
29) Tetrahydrofuran	5.17	42	1683	1.16	ug/l	100
36) 1,1-Dichloropropene	5.67	75	17558	4.28	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	23557	5.64	ug/l	# 16
43) Isopropyl Acetate	6.47	43	145190	20.81	ug/l	95
48) Methyl methacrylate	7.70	41	8090	2.27	ug/l	# 23
51) 4-Methyl-2-Pentanone	8.62	43	4832	1.05	ug/l	# 39
53) t-1,3-Dichloropropene	8.62	75	1565	0.33	ug/l	# 53
57) 1,3-Dichloropropane	9.55	76	1135	0.22	ug/l	# 42
59) 2-Hexanone	9.55	43	14016	3.97	ug/l	# 60
74) N-amyl acetate	6.47	43	145190	22.29	ug/l	# 95
76) 1,2,3-Trichloropropane	11.14	75	96412	25.17	ug/l	# 33
80) 1,3,5-Trimethylbenzene	11.51	105	2471	0.22	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.14	75	96412	81.78	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	245	0.26	ug/l	# 1
95) Naphthalene	13.84	128	4071	0.29	ug/l	99

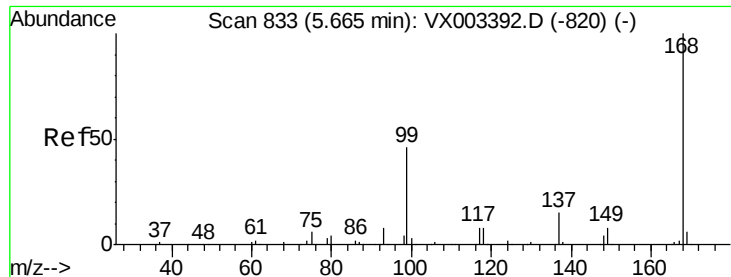
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 16 13:15:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

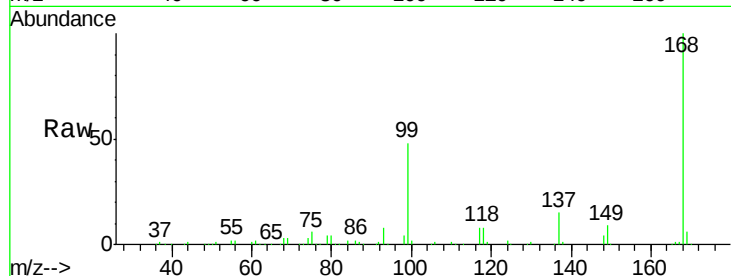
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 267879

Ion Ratio Lower Upper

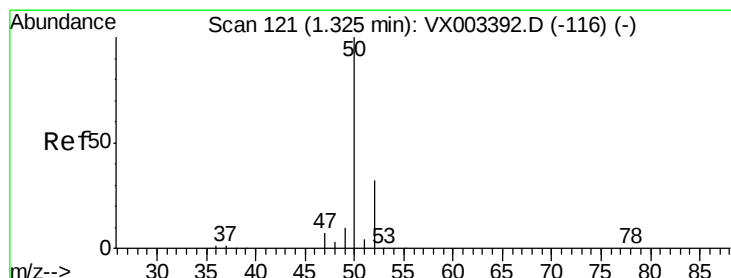
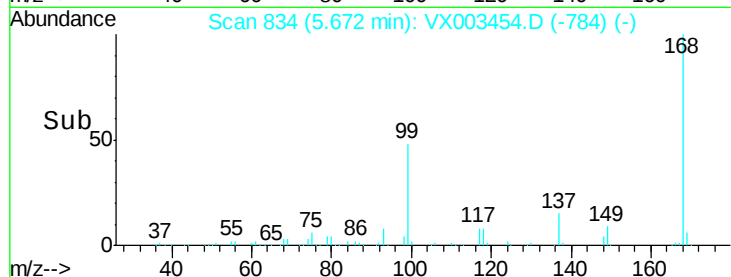
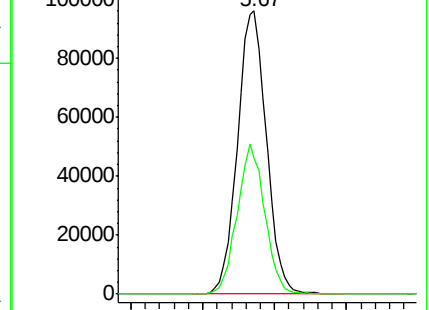
168 100

99 48.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003454.D

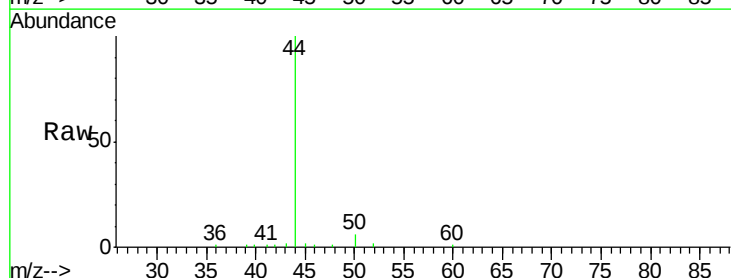
Acq: 18 Jul 2018 18:14

Tgt Ion: 50 Resp: 814

Ion Ratio Lower Upper

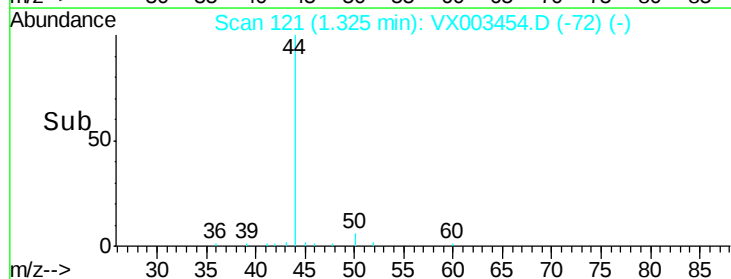
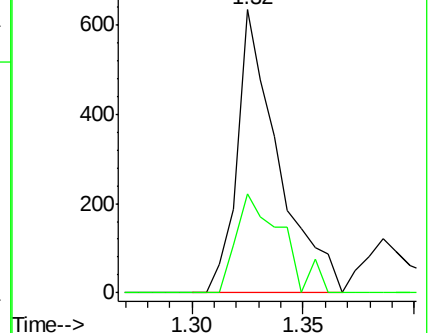
50 100

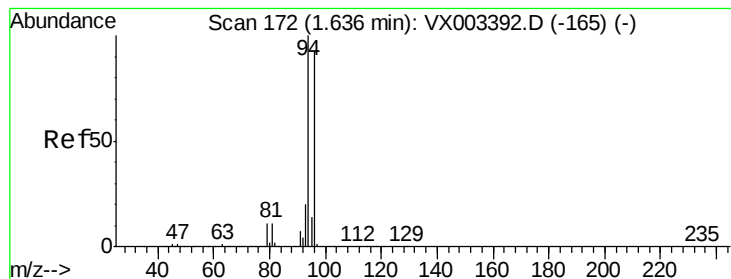
52 34.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

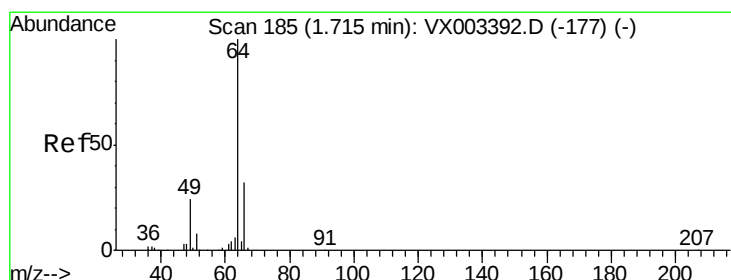
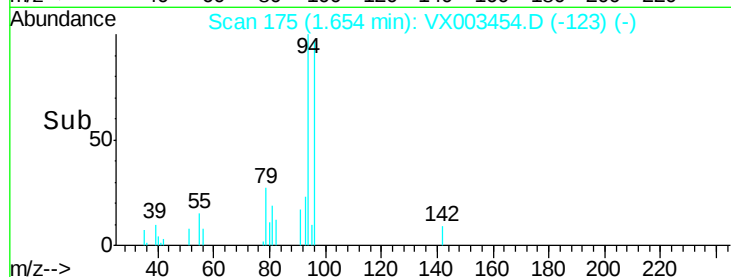
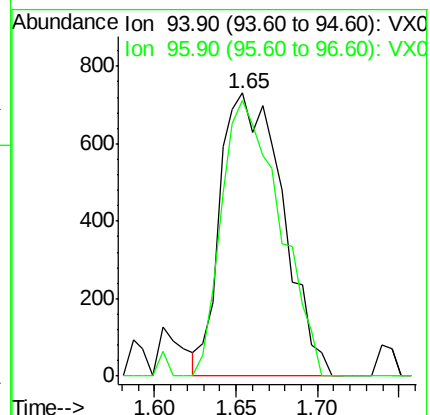
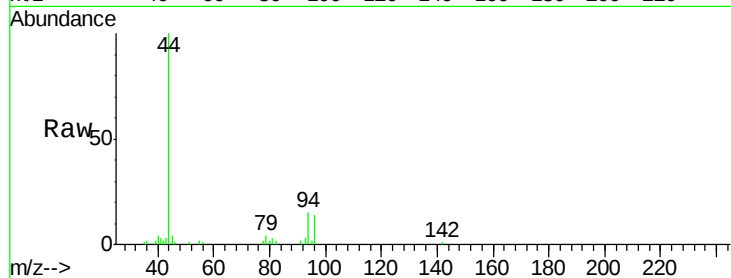
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1944

Ion Ratio Lower Upper

94 100

96 97.3 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX003454.D

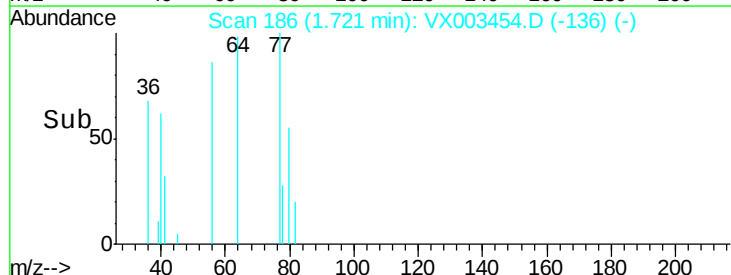
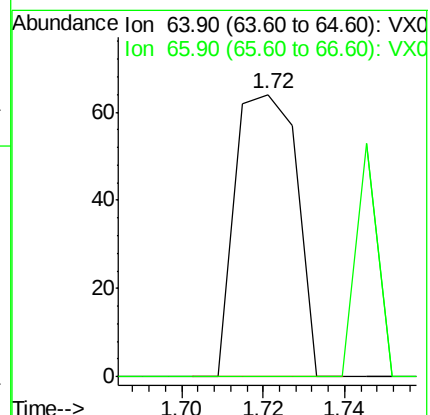
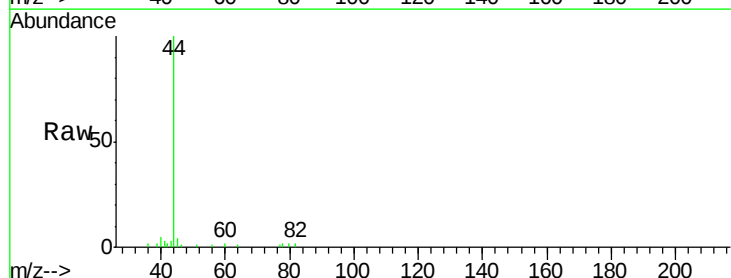
Acq: 18 Jul 2018 18:14

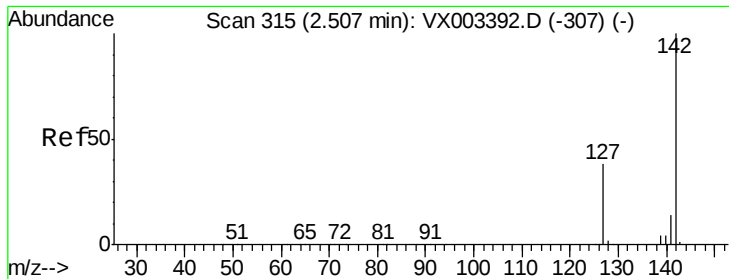
Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

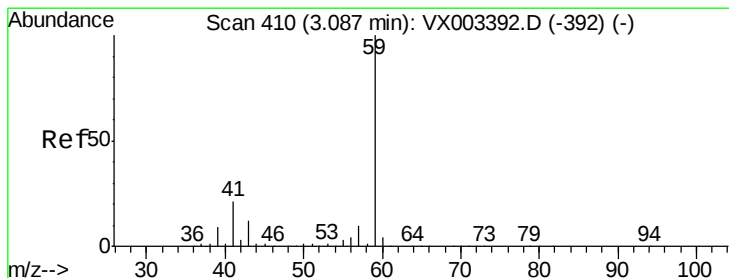
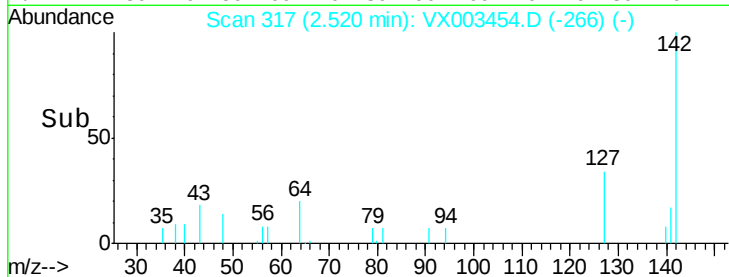
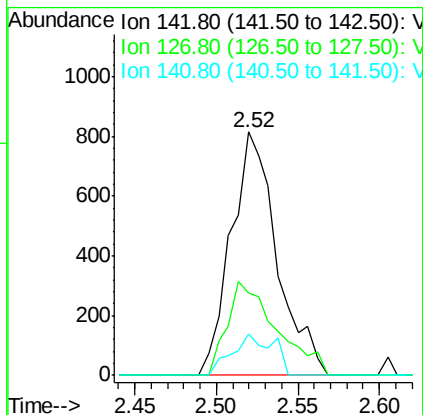
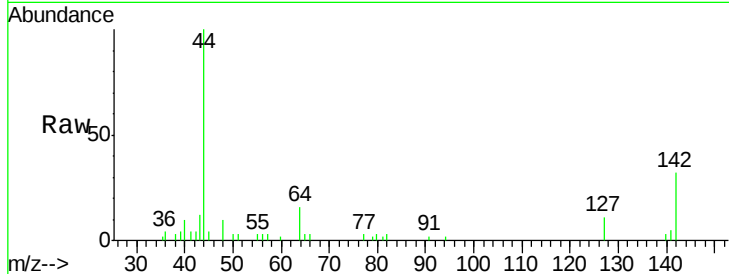




#10
Methvl Iodide
Concen: 0.50 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

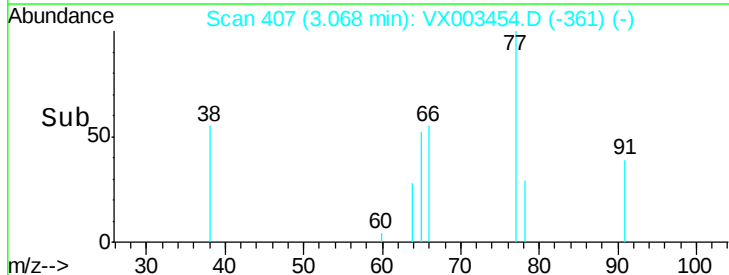
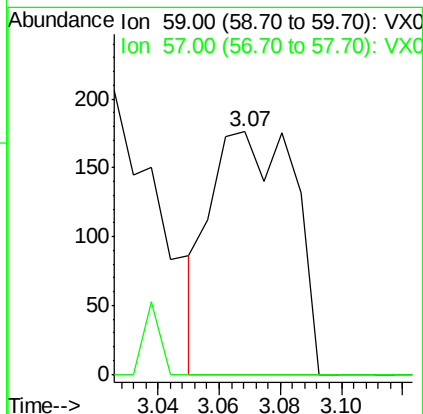
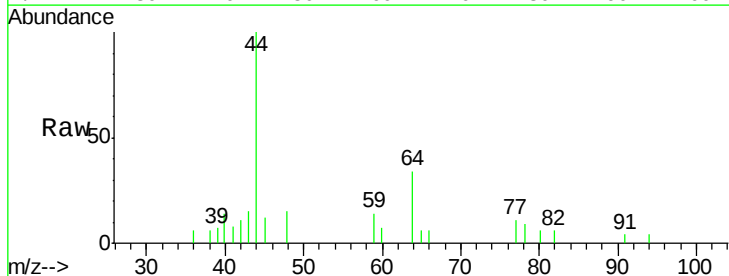
Instrument :
MSVOA_X
ClientSampled :

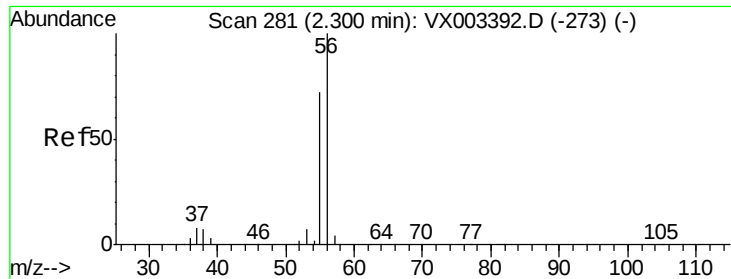
Tot Ion:142 Resp: 1606
Ion Ratio Lower Upper
142 100
127 41.2 36.6 55.0
141 15.1 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.42 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.02 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

Tgt Ion: 59 Resp: 332
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 0.43 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

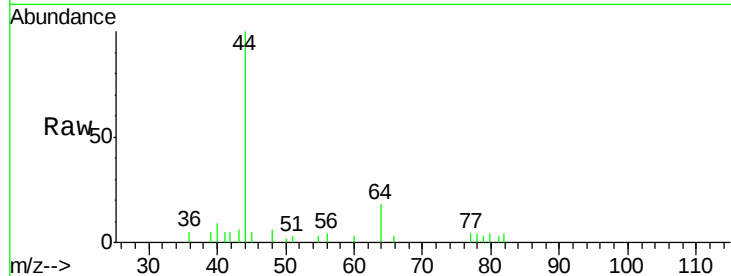
ClientSampled :

Tot Ion: 56 Resp: 164

Ion Ratio Lower Upper

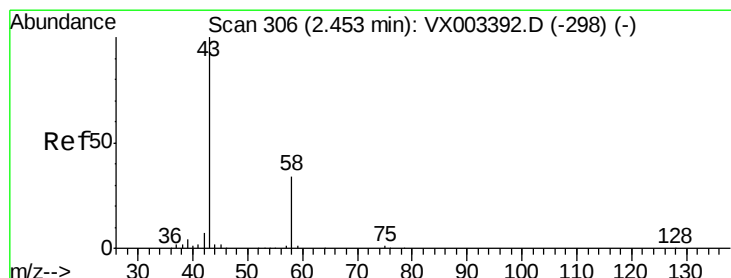
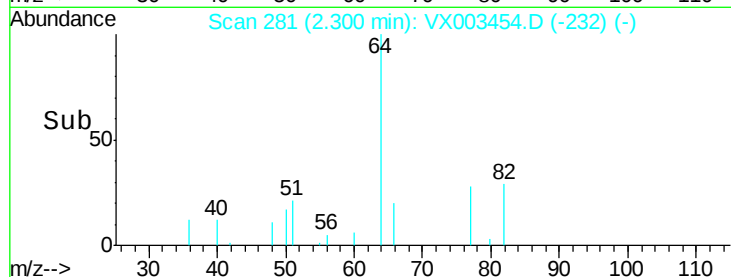
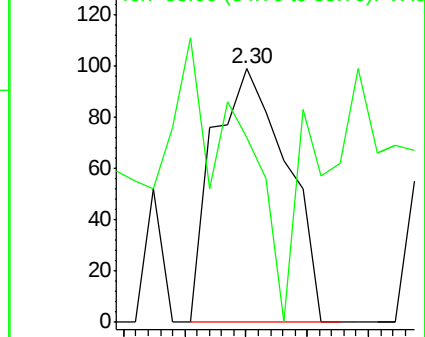
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 13.35 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003454.D

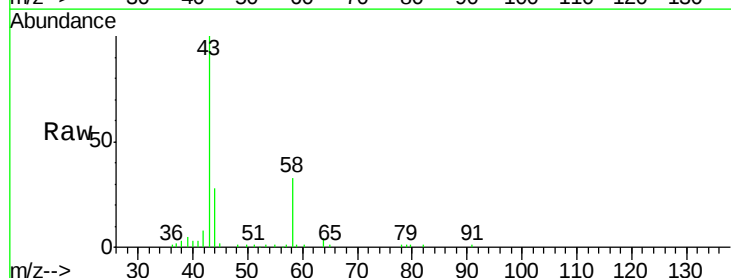
Acq: 18 Jul 2018 18:14

Tgt Ion: 43 Resp: 19485

Ion Ratio Lower Upper

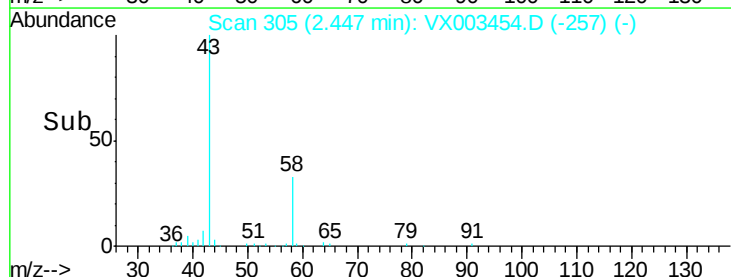
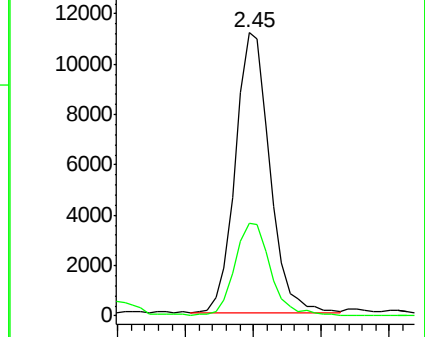
43 100

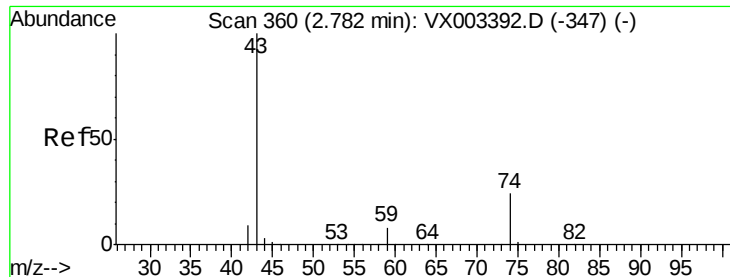
58 33.3 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

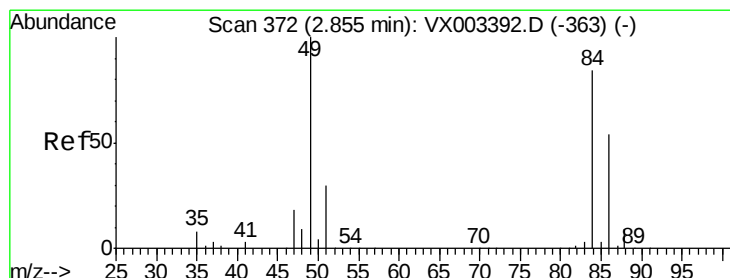
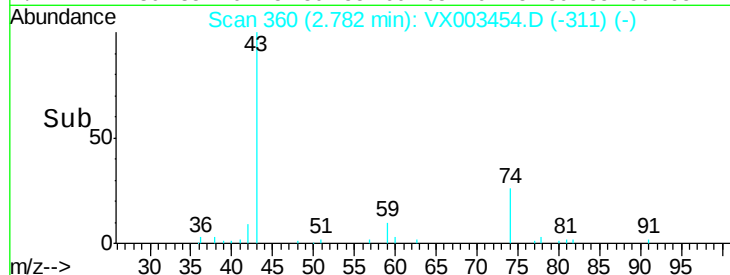
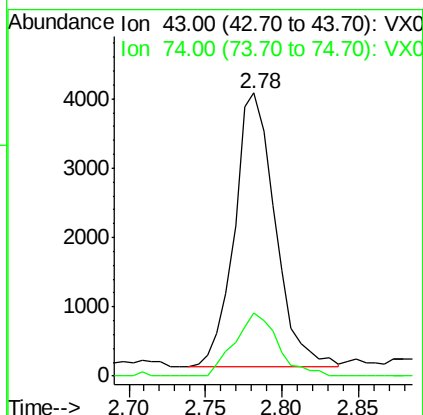
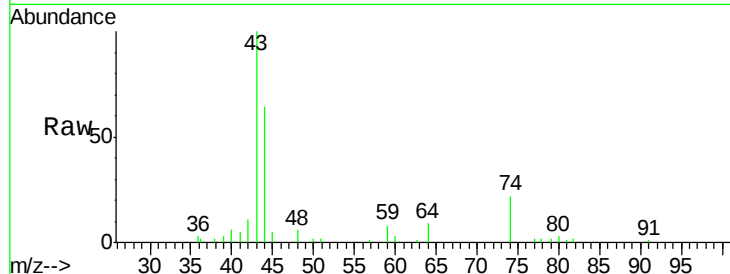




#18
Methyl Acetate
Concen: 1.54 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

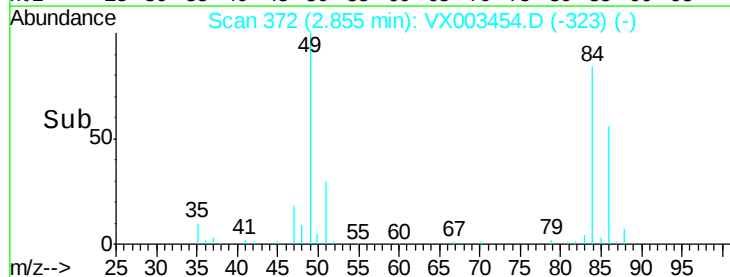
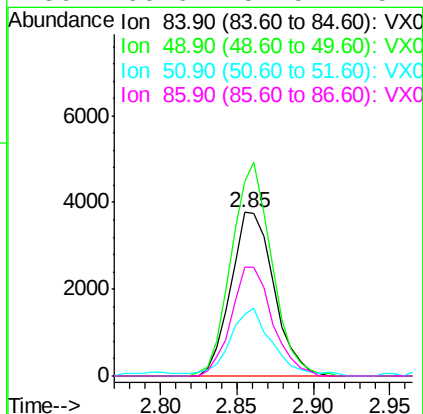
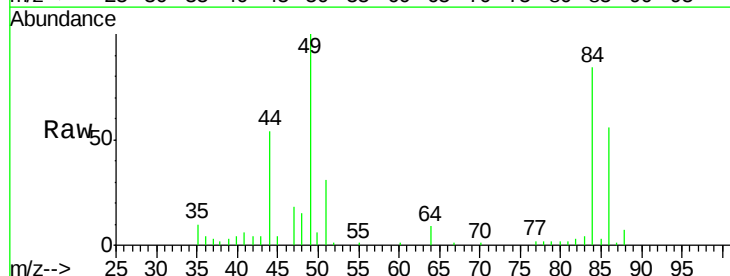
Instrument :
MSVOA_X
ClientSampleId :

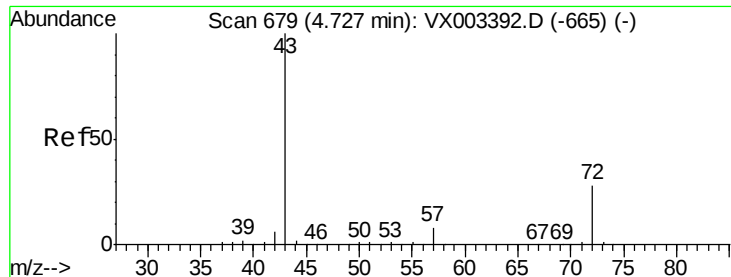
Tot Ion: 43 Resp: 7315
Ion Ratio Lower Upper
43 100
74 24.4 16.7 25.1



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

Tgt Ion: 84 Resp: 7379
Ion Ratio Lower Upper
84 100
49 119.4 107.8 161.6
51 36.2 32.8 49.2
86 66.6 52.5 78.7





#25

2-Butanone

Concen: 2.19 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.01 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

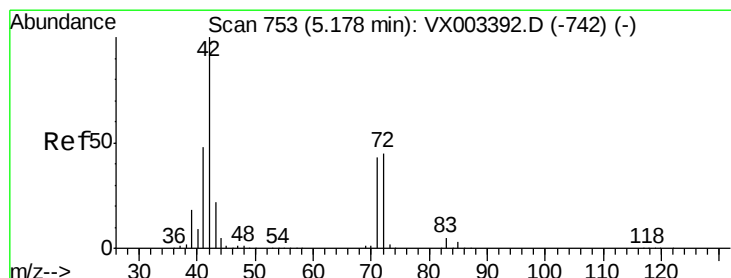
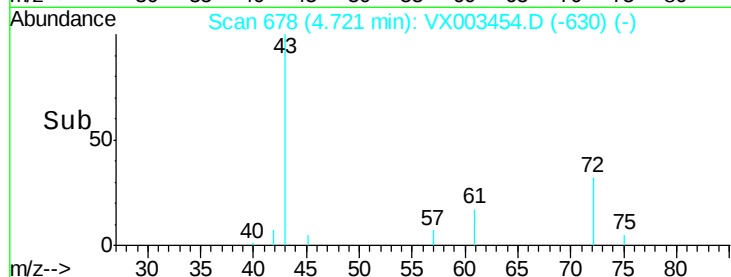
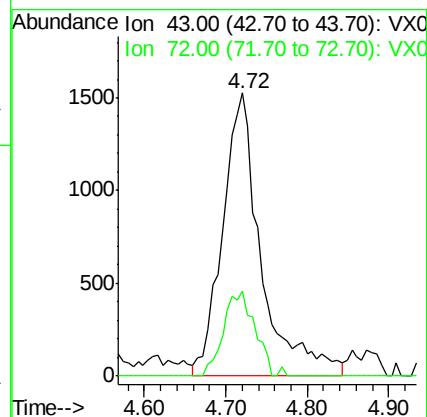
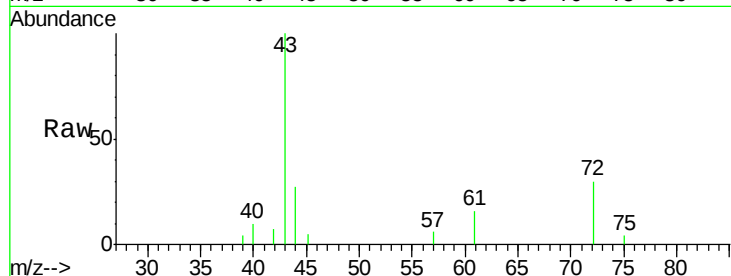
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 5002

Ion Ratio Lower Upper

43 100

72 31.1 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.16 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.01 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

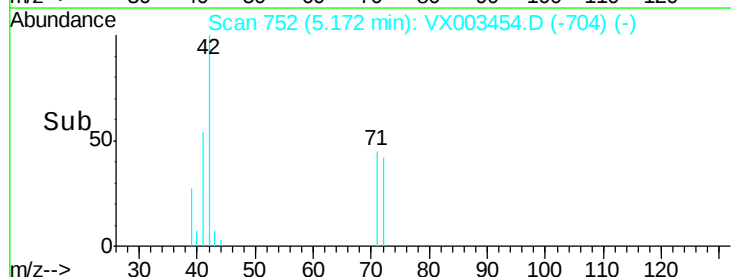
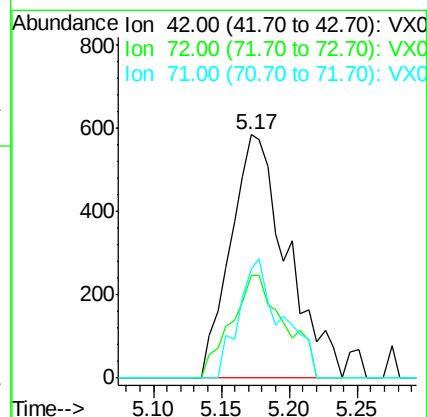
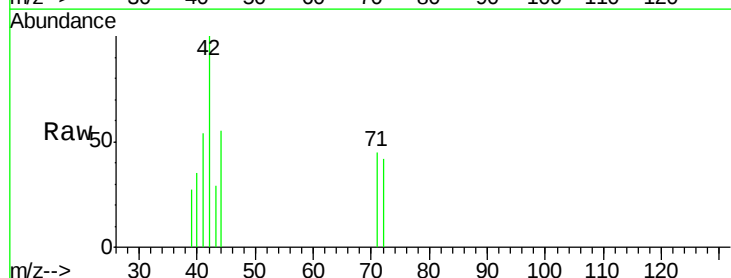
Tgt Ion: 42 Resp: 1683

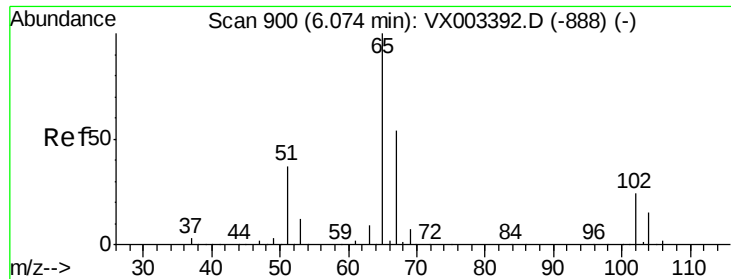
Ion Ratio Lower Upper

42 100

72 40.0 32.0 48.0

71 37.4 30.1 45.1

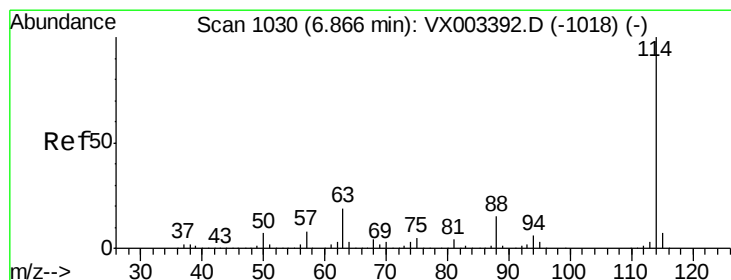
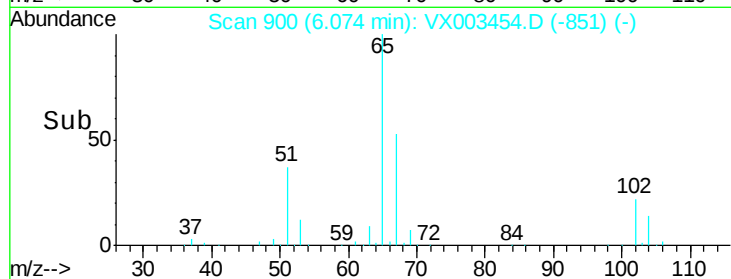
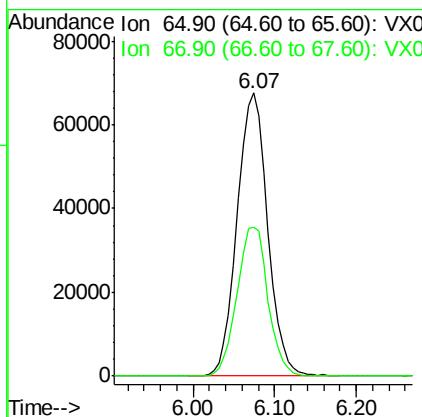
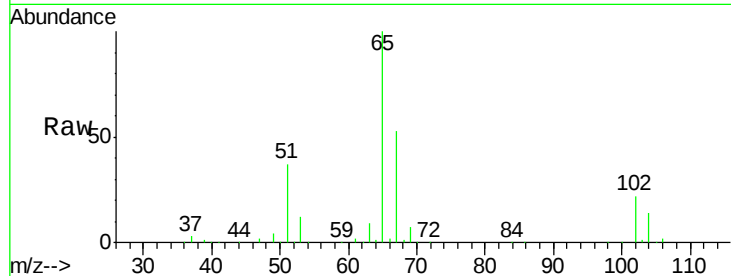




#33
 1,2-Dichloroethane-d4
 Concen: 49.96 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX003454.D
 Acq: 18 Jul 2018 18:14

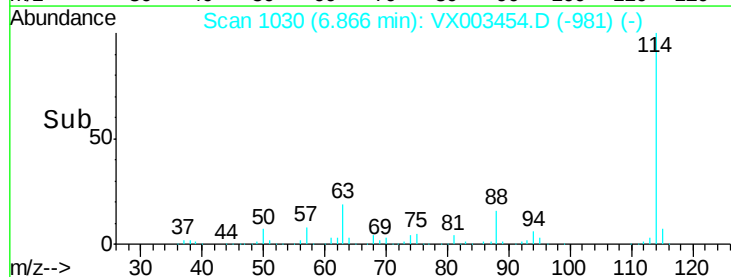
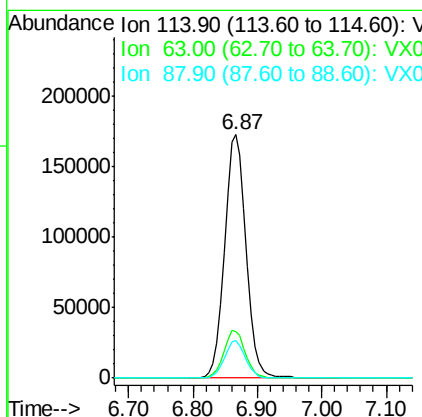
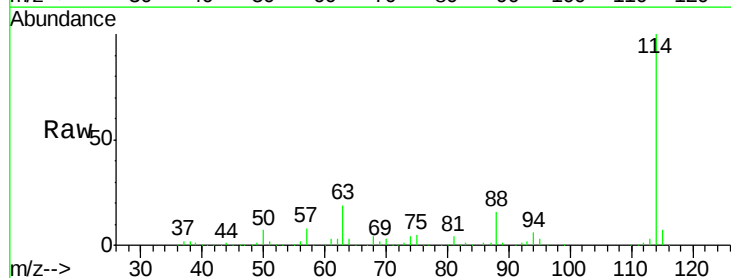
Instrument :
 MSVOA_X
 ClientSampleId :

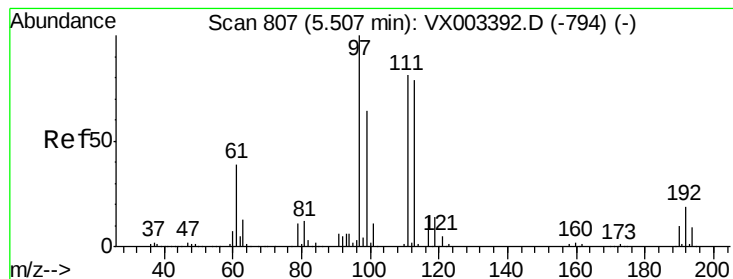
Tot Ion: 65 Resp: 175259
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003454.D
 Acq: 18 Jul 2018 18:14

Tgt Ion: 114 Resp: 405178
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 41.4
 88 15.6 0.0 30.0





#35

Dibromofluoromethane

Concen: 46.72 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

ClientSampleId :

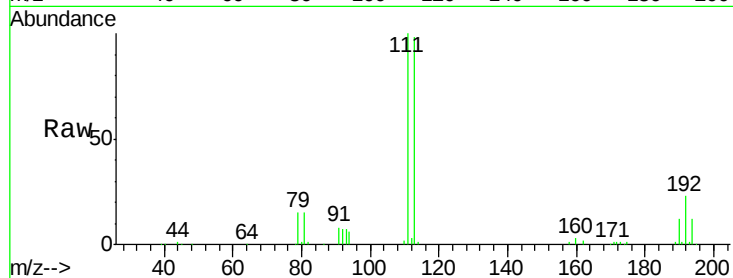
Tot Ion:113 Resp: 153154

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

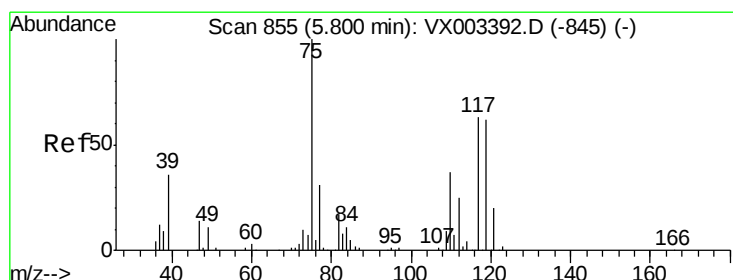
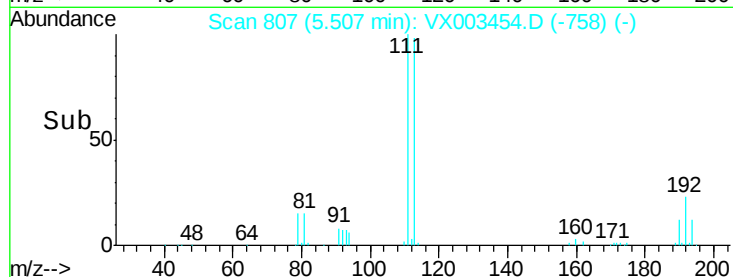
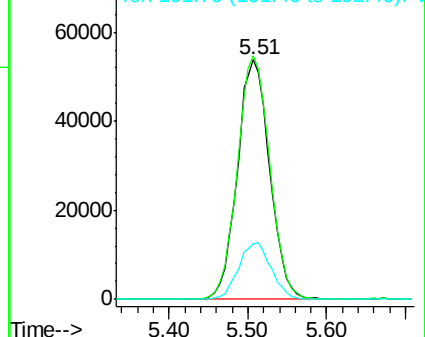
192 23.9 19.1 28.7



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: 4.28 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

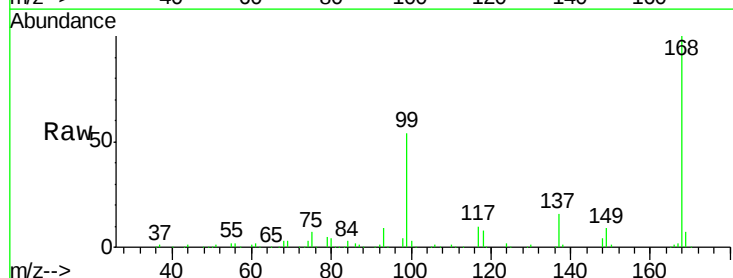
Tgt Ion: 75 Resp: 17558

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

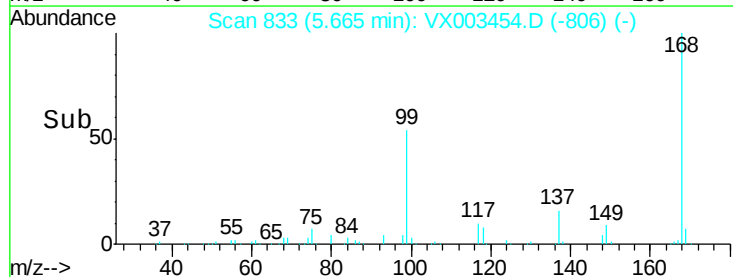
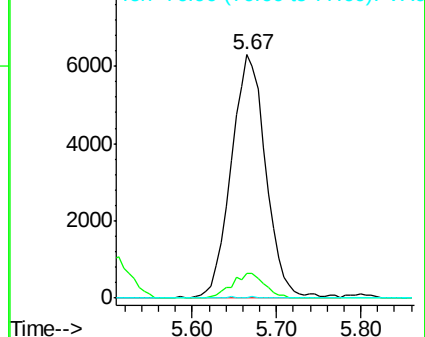
77 0.1 24.3 36.5#

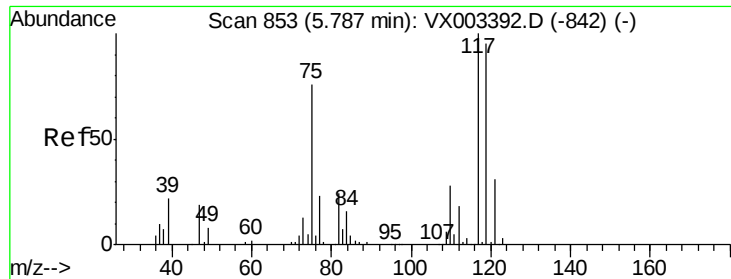


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.64 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

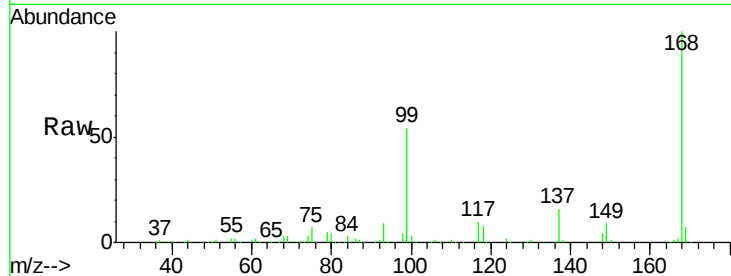
Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

ClientSampled :



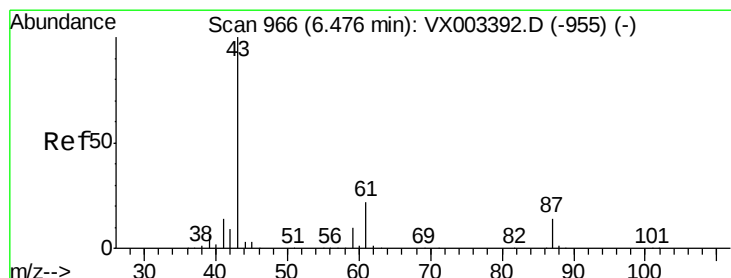
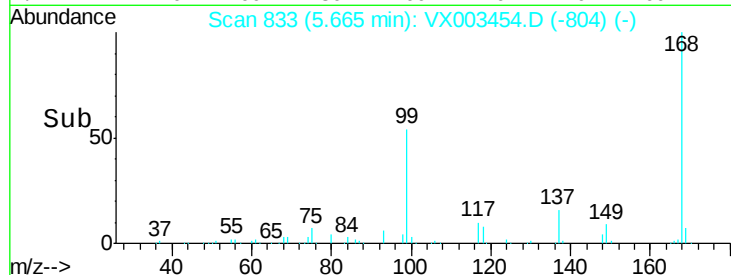
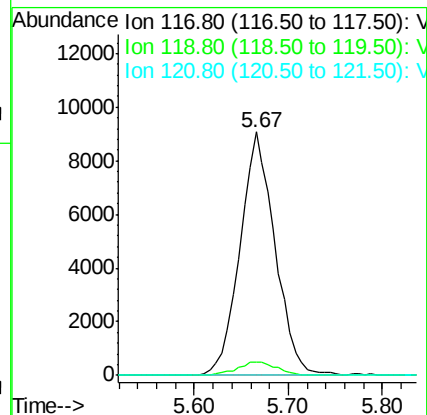
Tot Ion:117 Resp: 23557

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

121 0.0 24.4 36.6#



#43

Isopropyl Acetate

Concen: 20.81 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

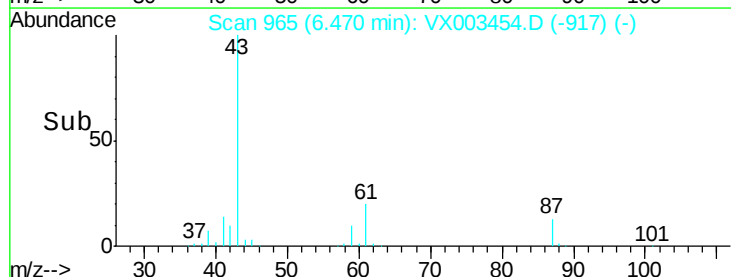
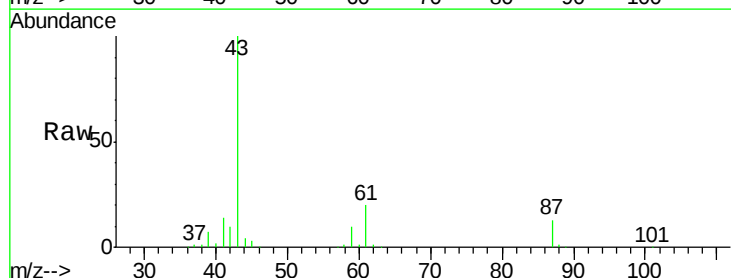
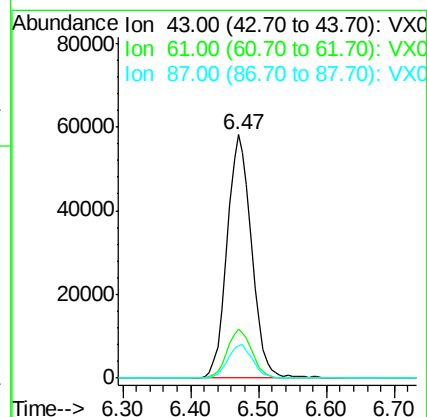
Tgt Ion: 43 Resp: 145190

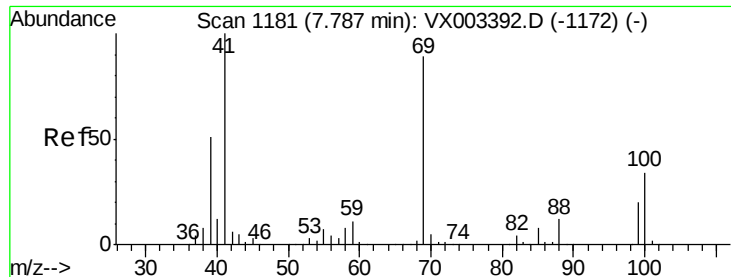
Ion Ratio Lower Upper

43 100

61 20.1 14.4 21.6

87 14.0 9.5 14.3

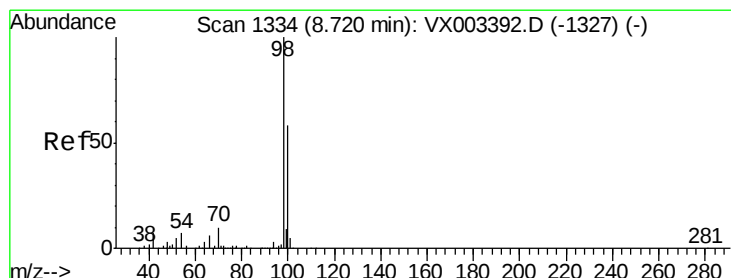
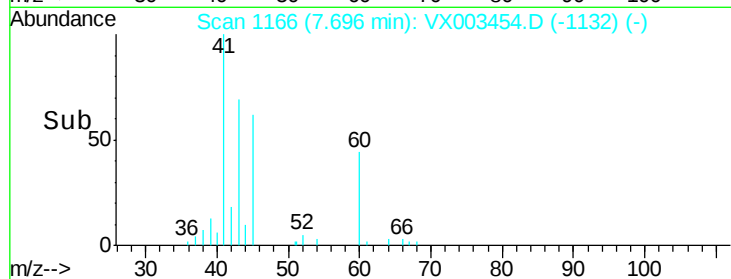
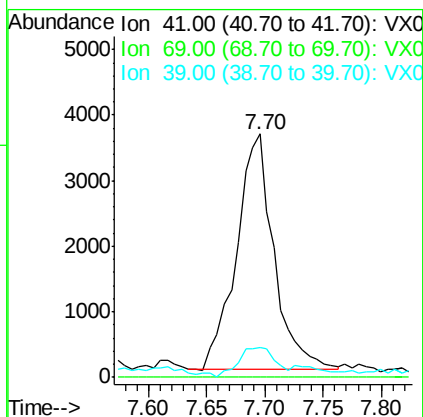
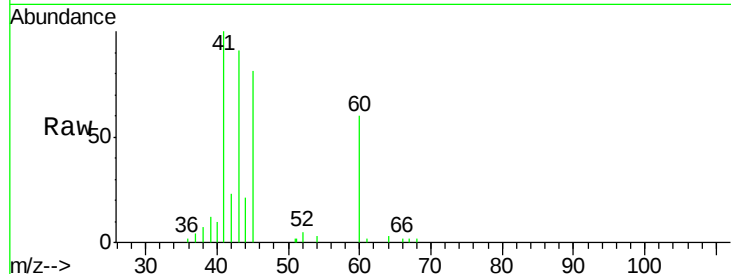




#48
Methvl methacrylate
Concen: 2.27 ug/l
RT: 7.70 min Scan# 1166
Delta R.T. -0.09 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

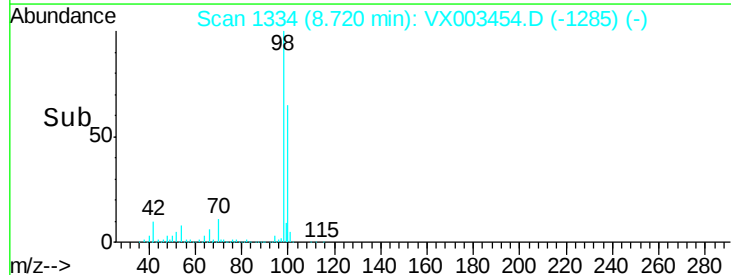
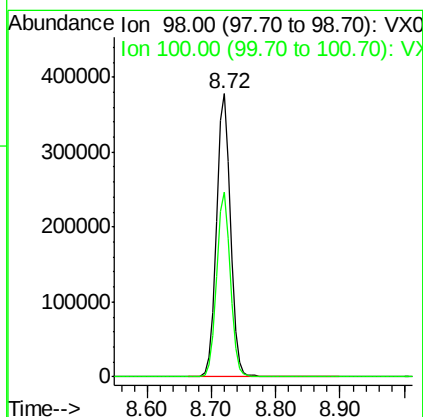
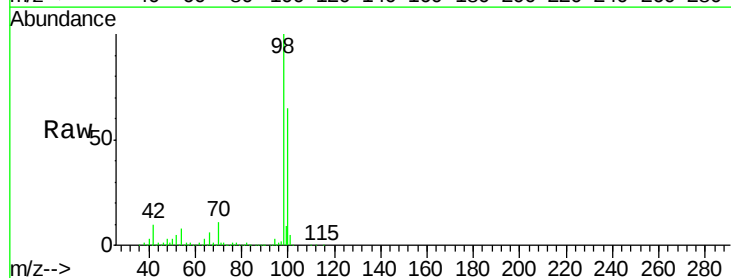
Instrument :
MSVOA_X
ClientSampled :

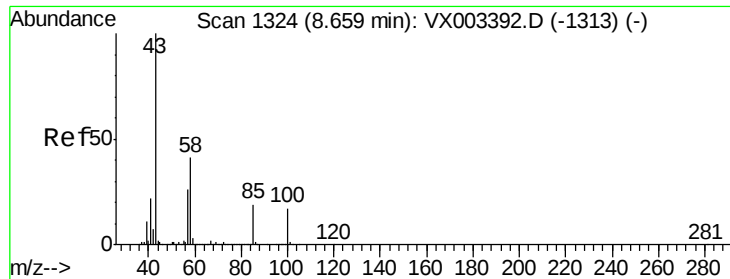
Tot Ion: 41 Resp: 8090
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 12.5 48.9 73.3#



#50
Toluene-d8
Concen: 48.05 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

Tgt Ion: 98 Resp: 581355
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3

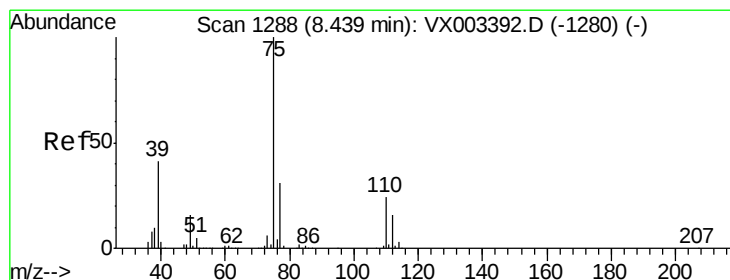
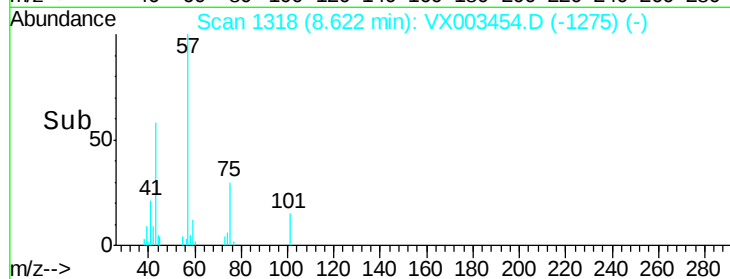
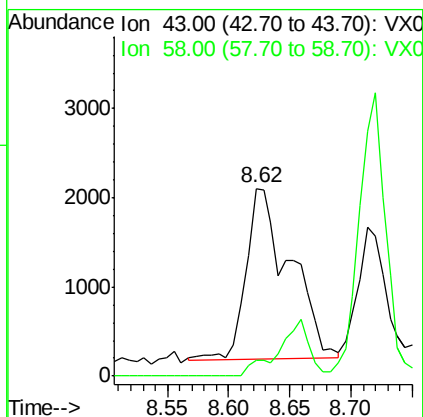
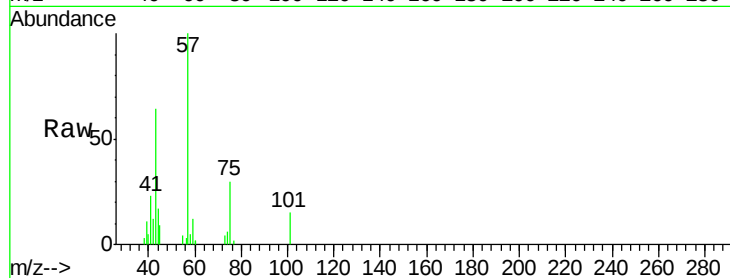




#51
4-Methyl-2-Pentanone
Concen: 1.05 ug/l
RT: 8.62 min Scan# 1318
Delta R.T. -0.04 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

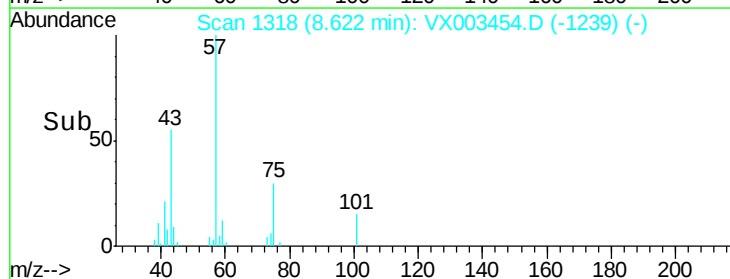
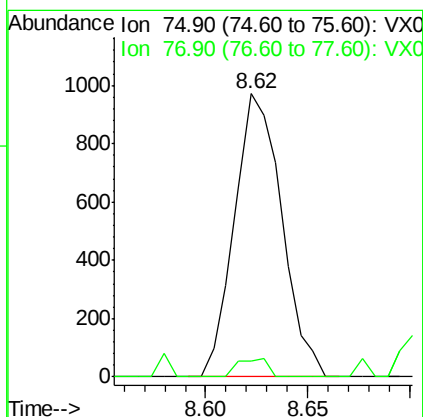
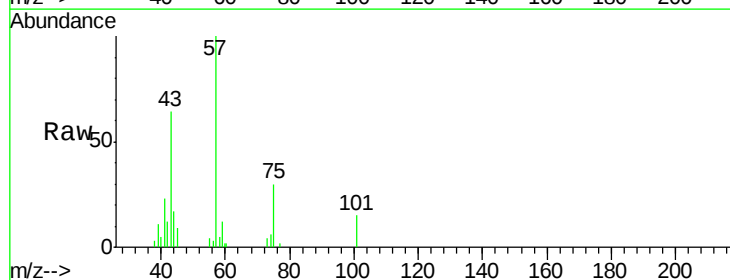
Instrument :
MSVOA_X
ClientSampled :

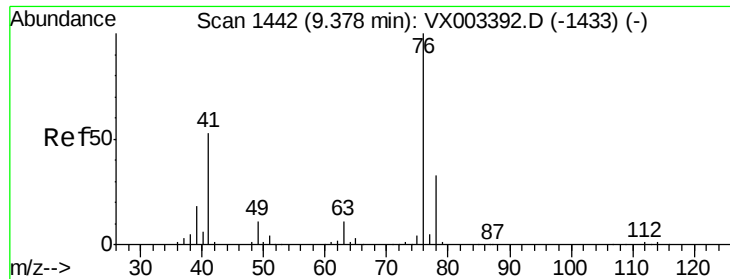
Tot Ion: 43 Resp: 4832
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#



#53
t-1,3-Dichloropropene
Concen: 0.33 ug/l
RT: 8.62 min Scan# 1318
Delta R.T. 0.18 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

Tgt Ion: 75 Resp: 1565
Ion Ratio Lower Upper
75 100
77 5.6 25.4 38.2#





#57

1,3-Dichloropropane

Concen: 0.22 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.17 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

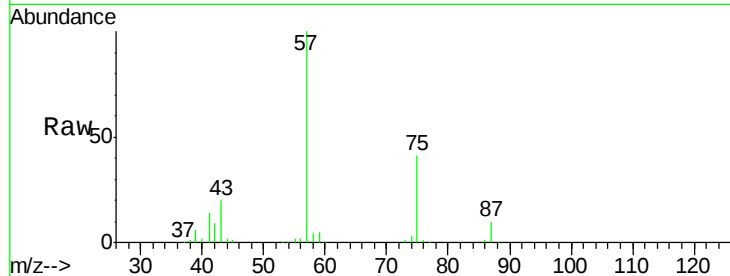
ClientSampled :

Tot Ion: 76 Resp: 1135

Ion Ratio Lower Upper

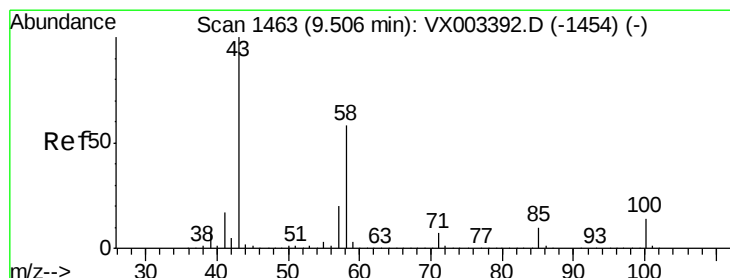
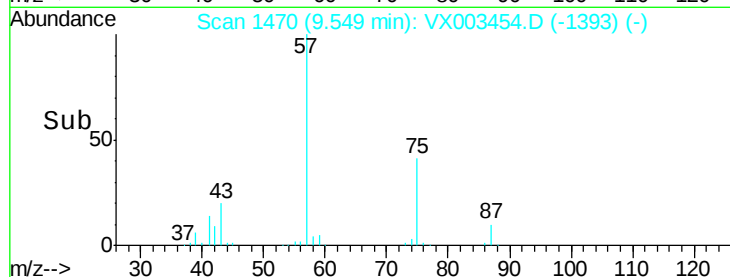
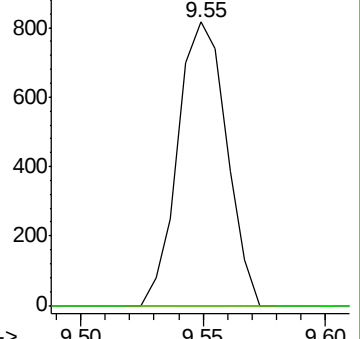
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 3.97 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.04 min

Lab File: VX003454.D

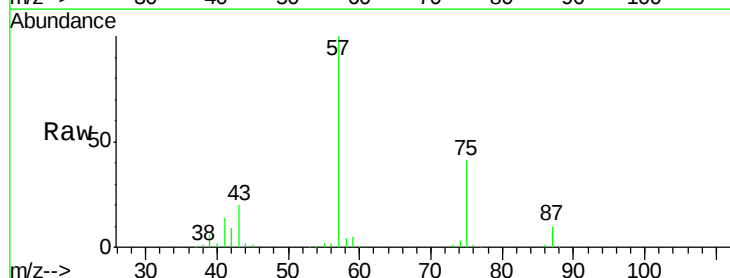
Acq: 18 Jul 2018 18:14

Tgt Ion: 43 Resp: 14016

Ion Ratio Lower Upper

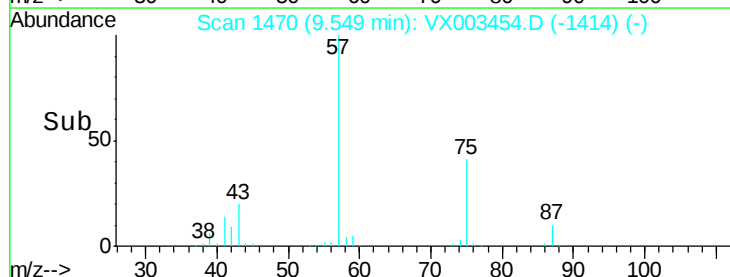
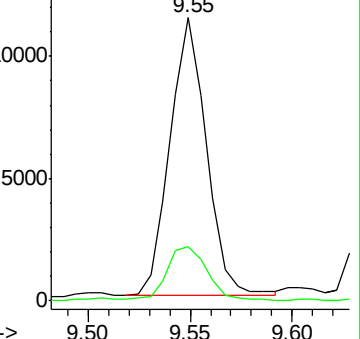
43 100

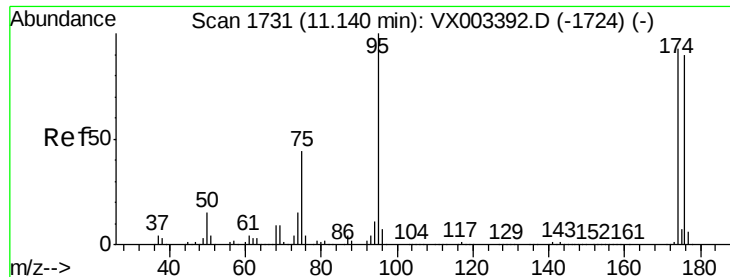
58 22.0 24.6 73.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

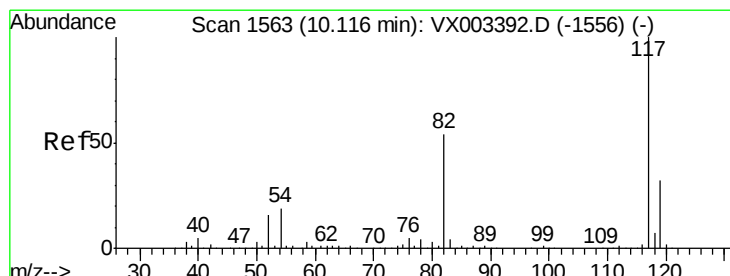
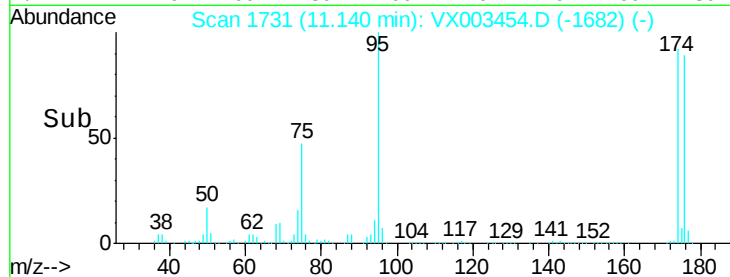
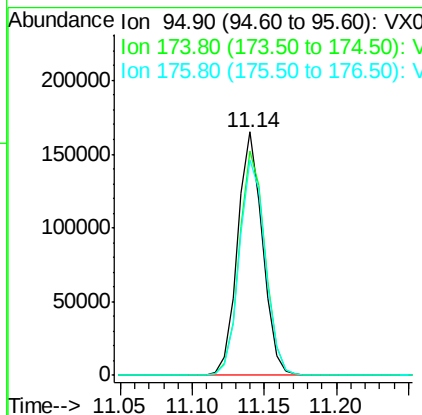
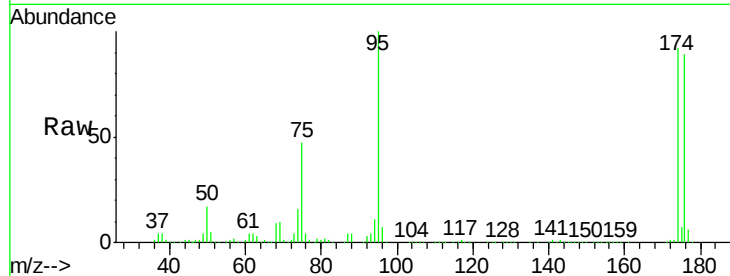




#62
4-Bromofluorobenzene
Concen: 46.09 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

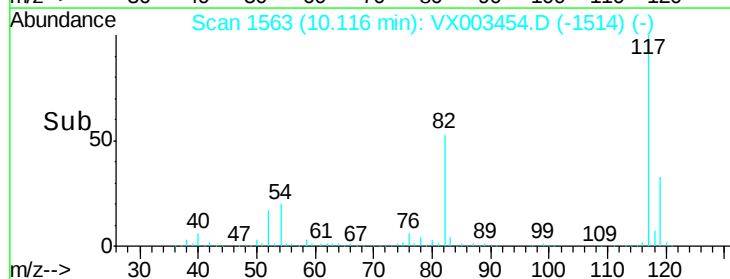
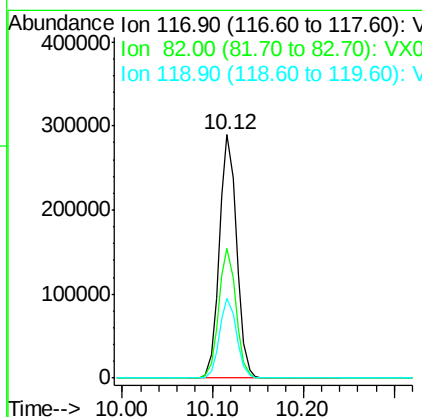
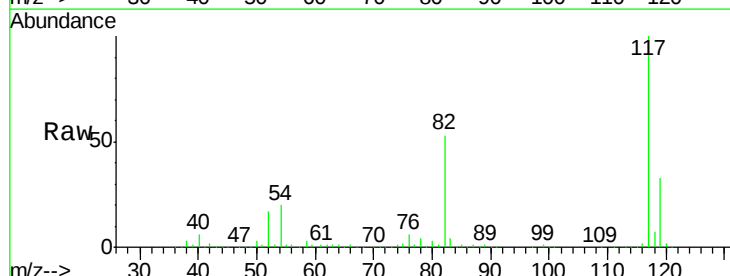
Instrument :
MSVOA_X
ClientSampleId :

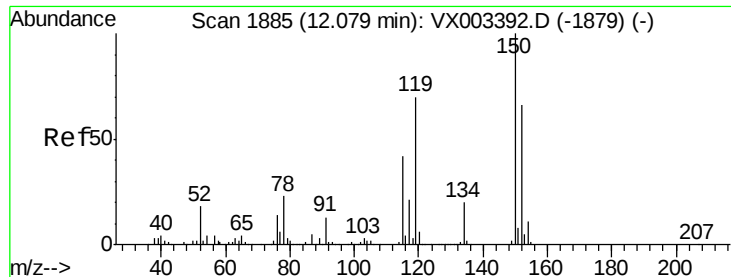
Tot Ion: 95 Resp: 199086
Ion Ratio Lower Upper
95 100
174 95.2 0.0 187.4
176 91.9 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003454.D
Acq: 18 Jul 2018 18:14

Tgt Ion: 117 Resp: 385590
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.7 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

ClientSampleId :

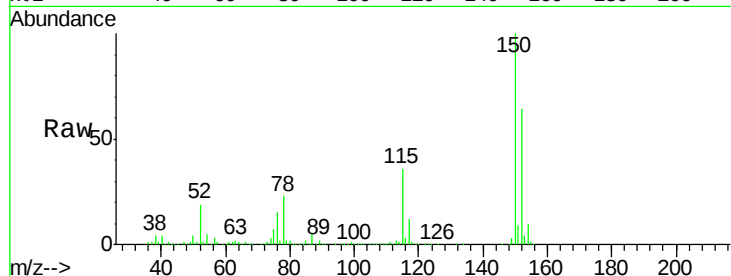
Tot Ion:152 Resp: 211560

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

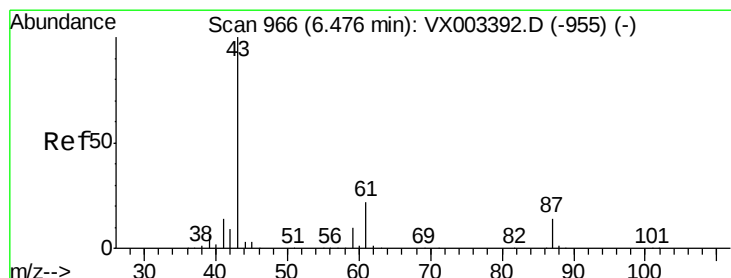
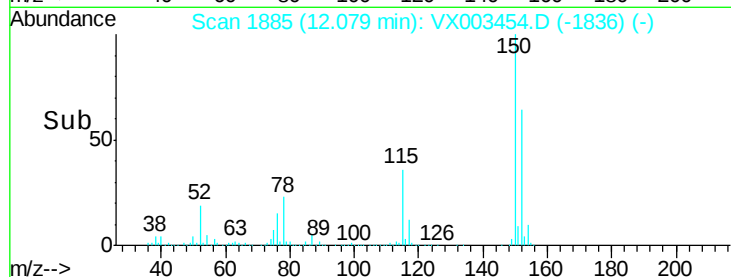
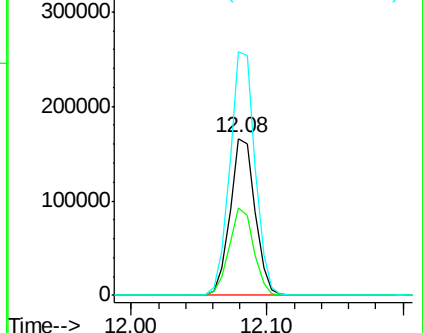
150 156.5 0.0 347.2



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: 22.29 ug/l

RT: 6.47 min Scan# 966

Delta R.T. -0.01 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Tgt Ion: 43 Resp: 145190

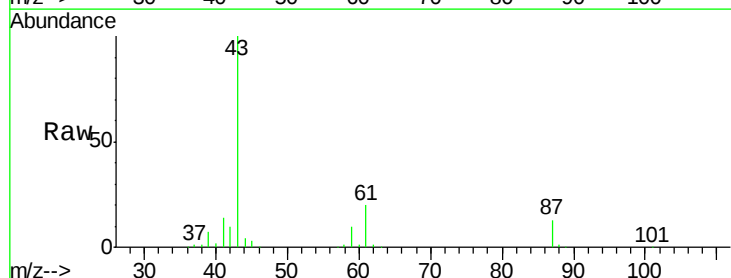
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0#

61 20.1 14.4 21.6

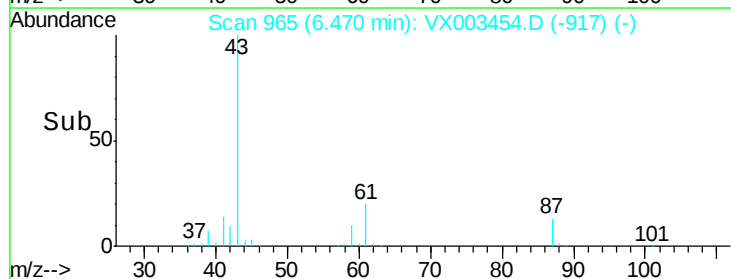
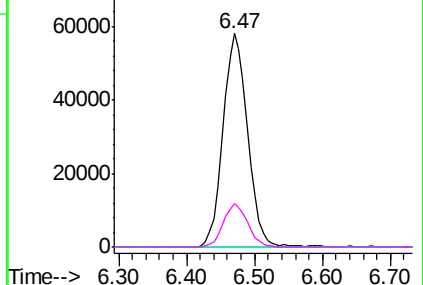


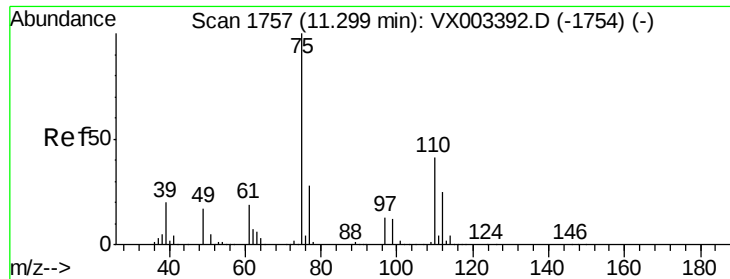
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

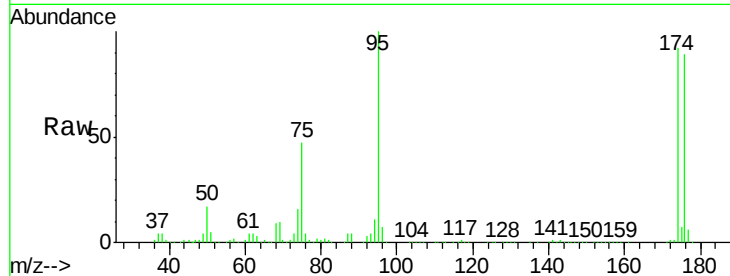
ClientSampled :

Tot Ion: 75 Resp: 96412

Ion Ratio Lower Upper

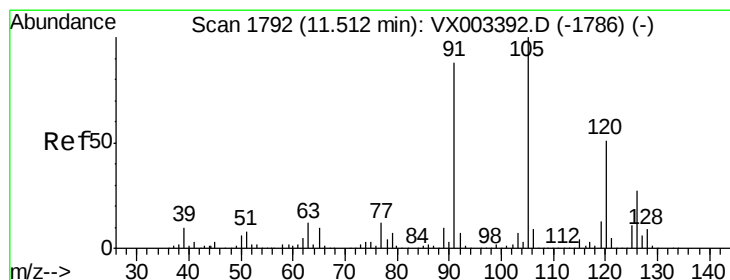
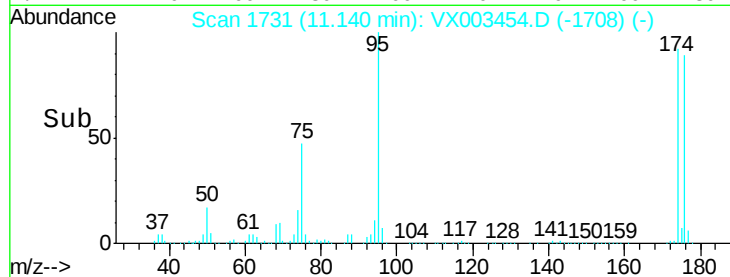
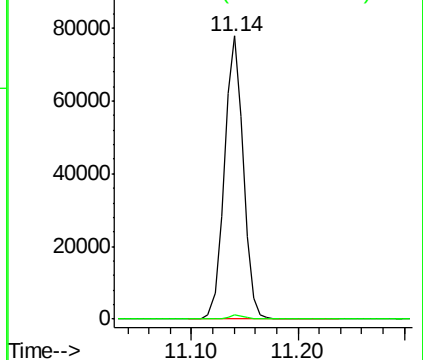
75 100

77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX003454.D

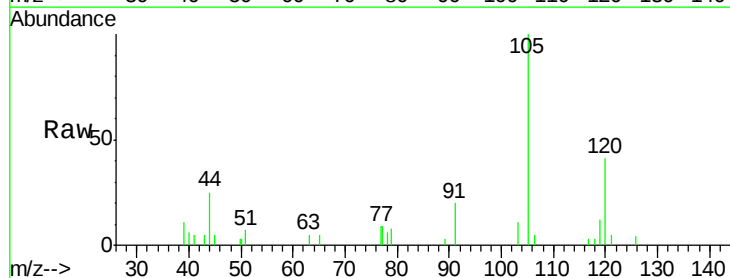
Acq: 18 Jul 2018 18:14

Tgt Ion: 105 Resp: 2471

Ion Ratio Lower Upper

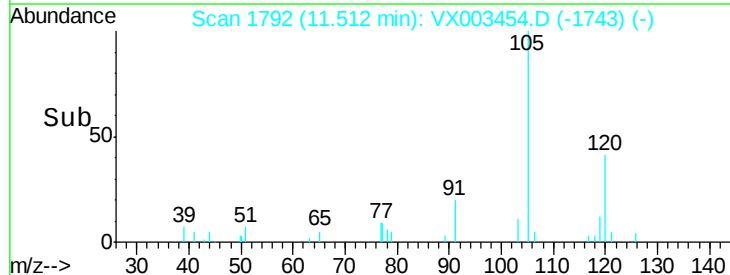
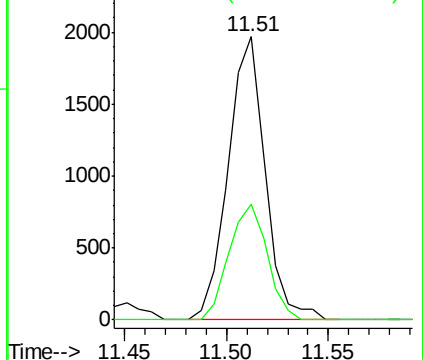
105 100

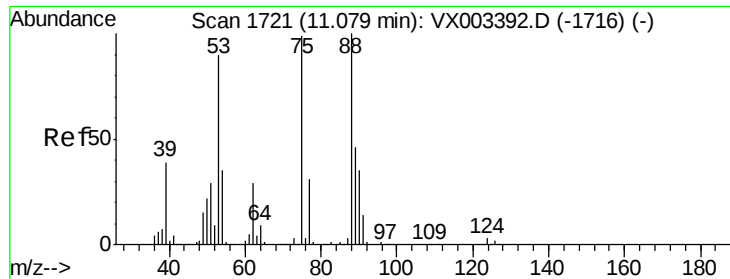
120 42.0 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 81.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

ClientSampled :

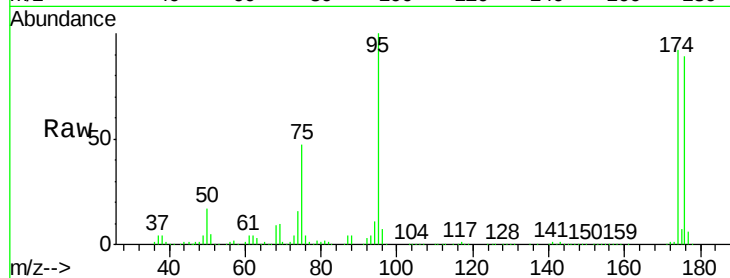
Tot Ion: 75 Resp: 96412

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

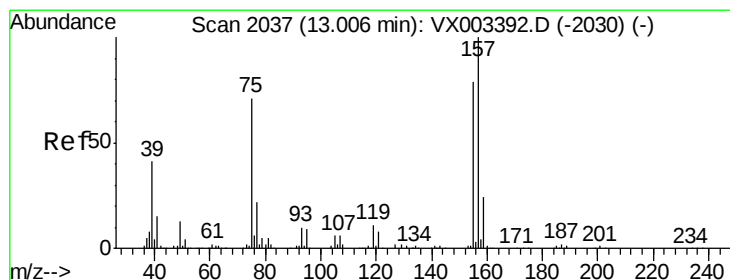
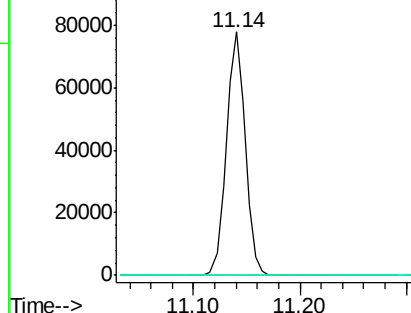
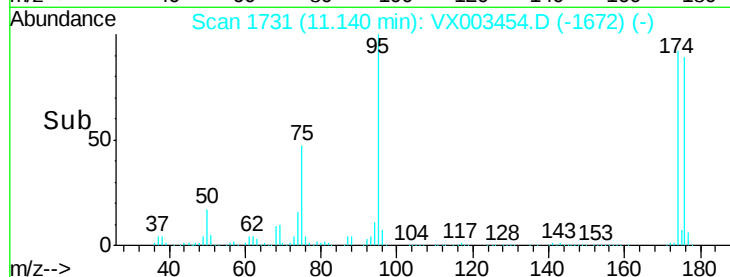
89 0.0 38.2 57.2#



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: 0.26 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

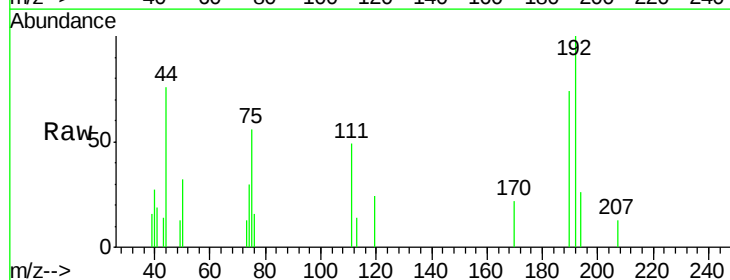
Tgt Ion: 75 Resp: 245

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

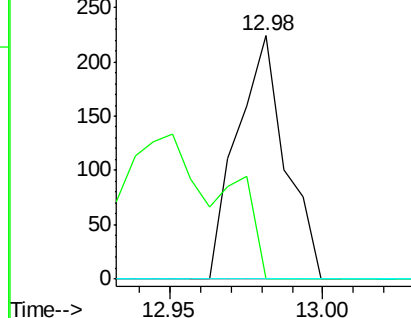
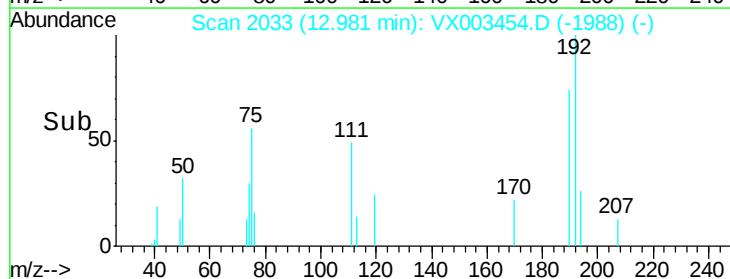
157 0.0 60.1 180.3#

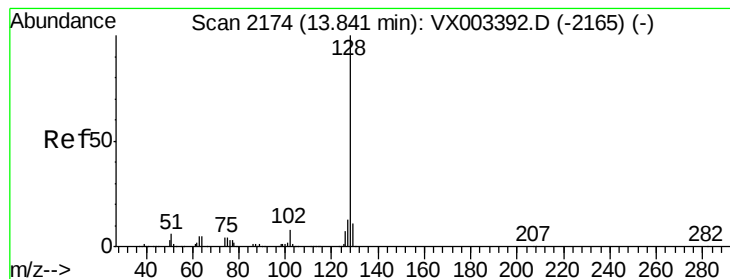


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.29 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

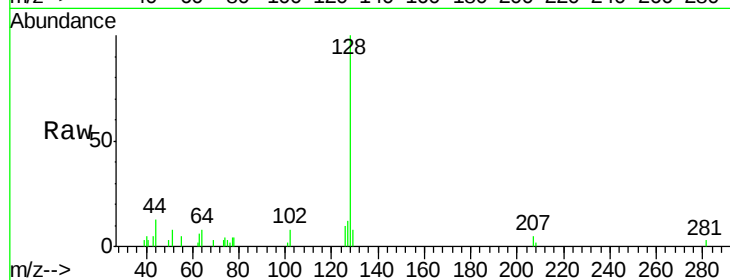
Lab File: VX003454.D

Acq: 18 Jul 2018 18:14

Instrument :

MSVOA_X

ClientSampleId :



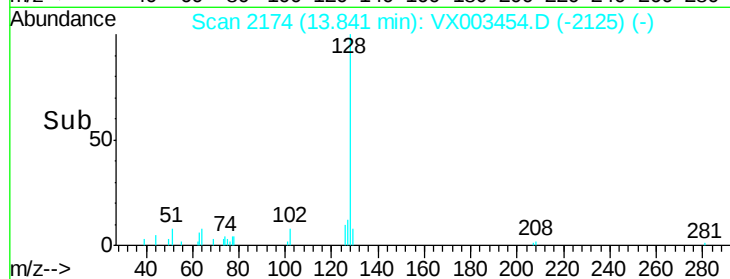
Tot Ion:128 Resp: 4071

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.2 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

