

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032618\
 Data File : VX000439.D
 Acq On : 26 Mar 2018 14:34
 Operator : JC/MD
 Sample : J1758-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 27 05:51:55 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	116962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	206057	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	197309	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	93759	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	84387	55.27	ug/l	0.00
Spiked Amount			Recovery	=	110.54%	
35) Dibromofluoromethane	5.51	113	68070	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
50) Toluene-d8	8.73	98	261145	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.15	95	85139	39.02	ug/l	0.00
Spiked Amount			Recovery	=	78.04%	

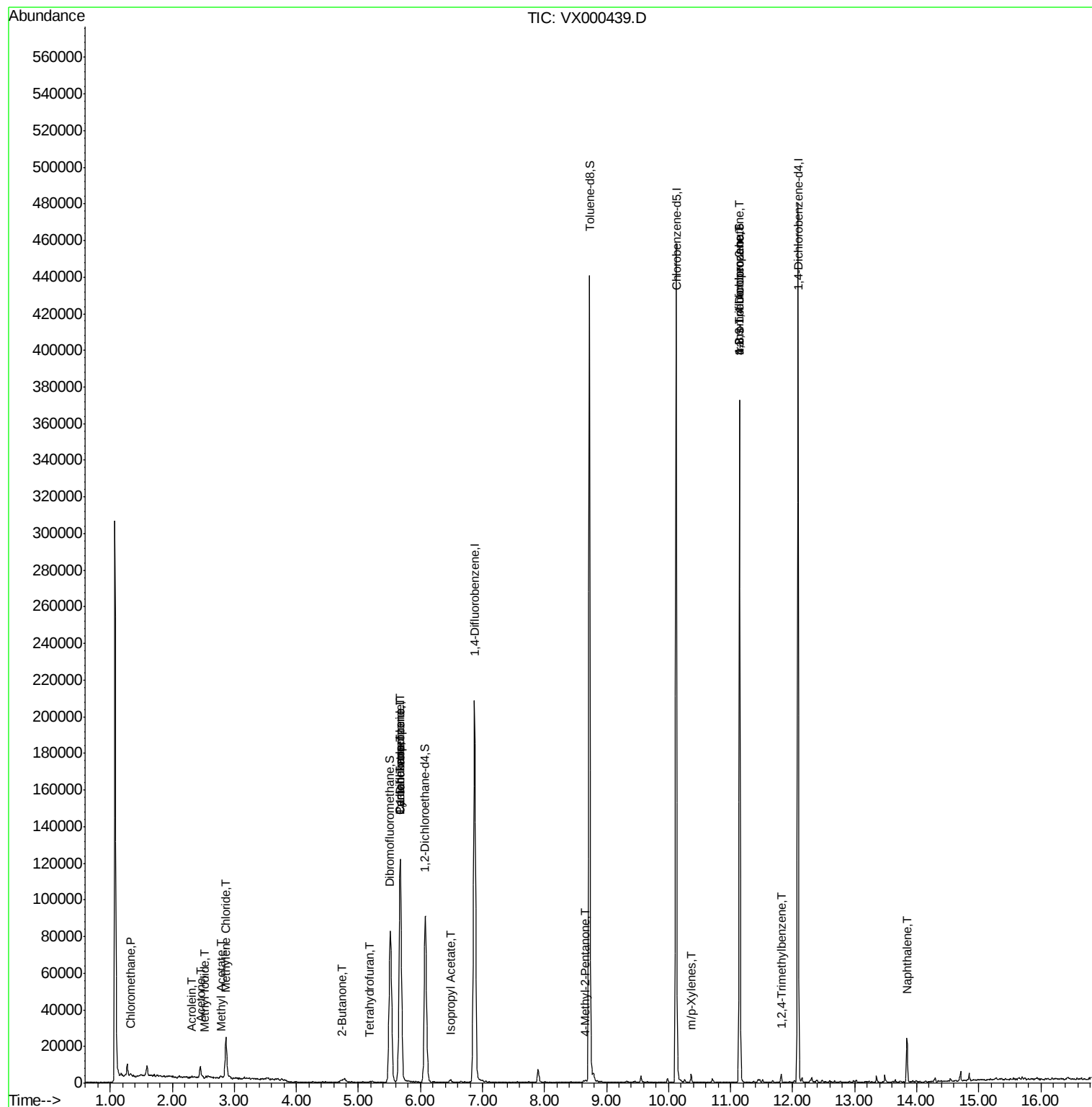
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	749	0.552	ug/l	91
6) Chloroethane	1.73	64	287	Below Cal	#	44
10) Methyl Iodide	2.53	142	62	4.315	ug/l #	73
13) Acrolein	2.31	56	79	15.022	ug/l #	13
16) Acetone	2.45	43	6451	5.079	ug/l	100
18) Methyl Acetate	2.79	43	1329	0.499	ug/l #	63
20) Methylene Chloride	2.86	84	10461	7.131	ug/l	90
25) 2-Butanone	4.73	43	1249	0.875	ug/l #	49
29) Tetrahydrofuran	5.19	42	360	0.410	ug/l #	62
31) Cyclohexane	5.67	56	2895	1.503	ug/l #	57
36) 1,1-Dichloropropene	5.67	75	8831	4.575	ug/l #	51
38) Carbon Tetrachloride	5.67	117	11688	5.772	ug/l #	16
43) Isopropyl Acetate	6.48	43	1681	0.428	ug/l #	84
51) 4-Methyl-2-Pentanone	8.66	43	1193	0.393	ug/l #	81
68) m/p-Xylenes	10.37	106	978	0.334	ug/l	92
74) N-amyl acetate	6.48	43	1681	Below Cal	#	92
76) 1,2,3-Trichloropropane	11.15	75	48277	23.959	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	48277	77.569	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.82	105	2288	0.418	ug/l	91
95) Naphthalene	13.84	128	14334	1.871	ug/l	100

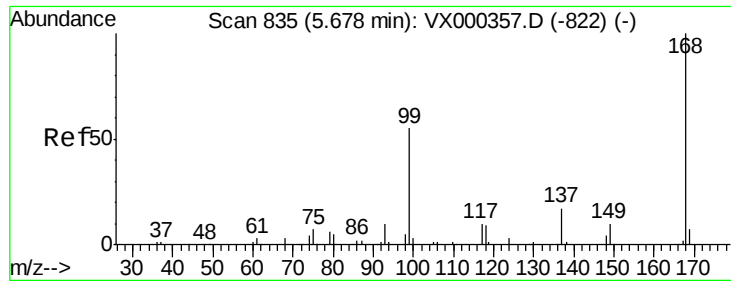
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

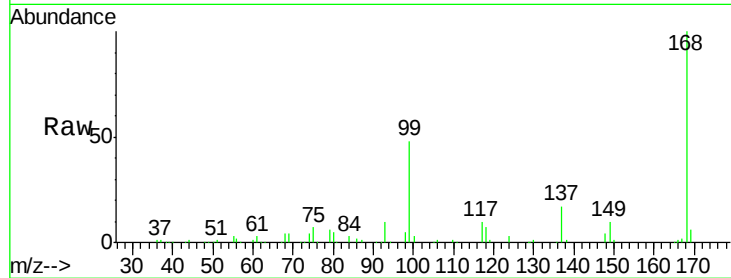
ClientSampleId :

Tot Ion:168 Resp: 116962

Ion Ratio Lower Upper

168 100

99 48.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

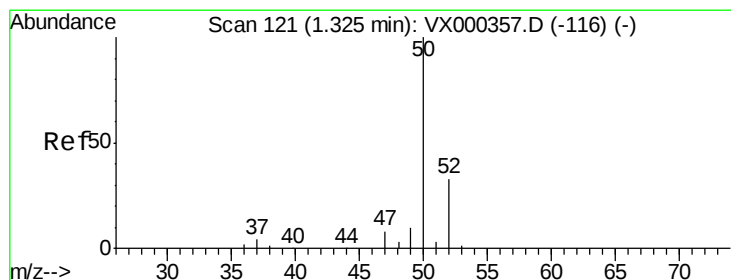
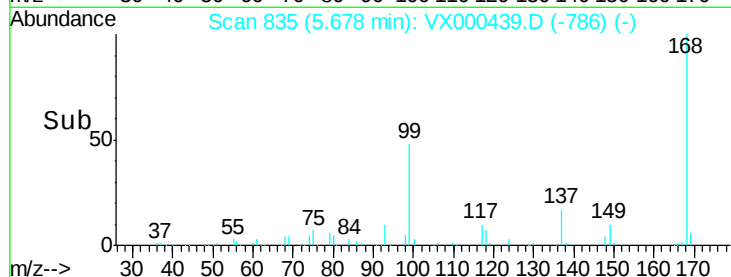
20000

10000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.552 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000439.D

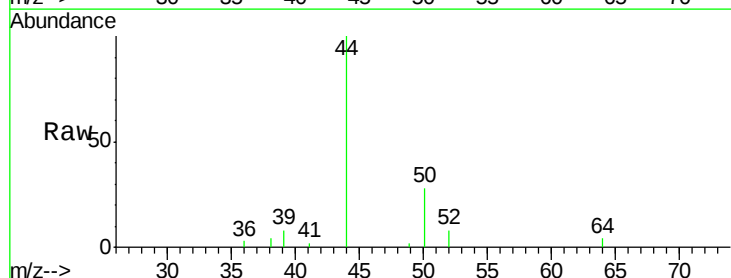
Acq: 26 Mar 2018 14:34

Tgt Ion: 50 Resp: 749

Ion Ratio Lower Upper

50 100

52 28.9 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

600

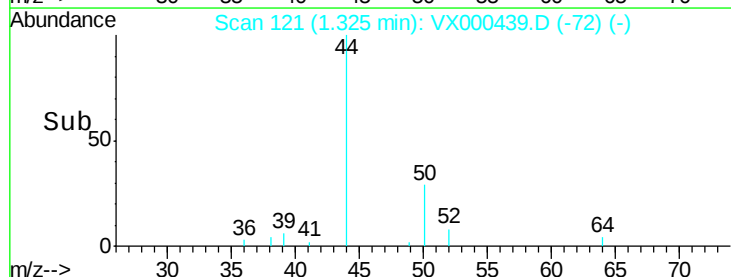
400

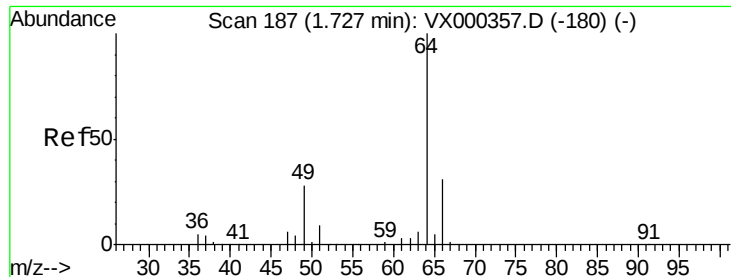
200

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

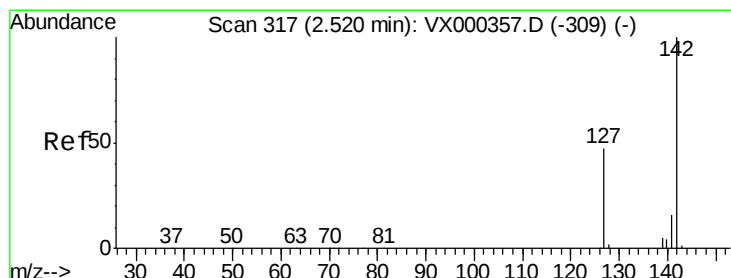
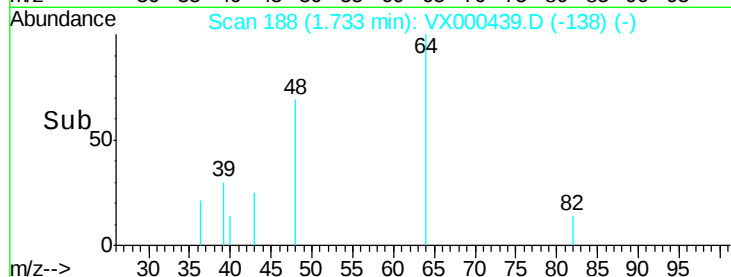
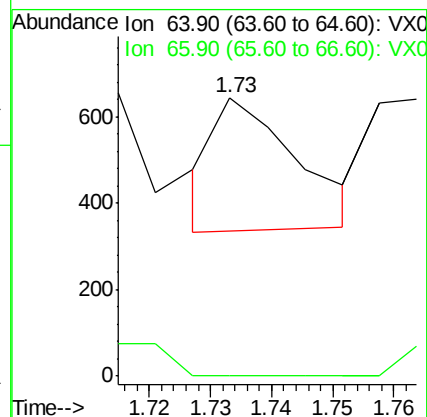
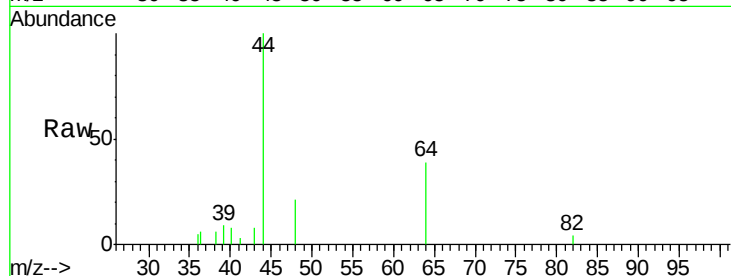
ClientSampleId :

Tot Ion: 64 Resp: 287

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



#10

Methyl Iodide

Concen: 4.315 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

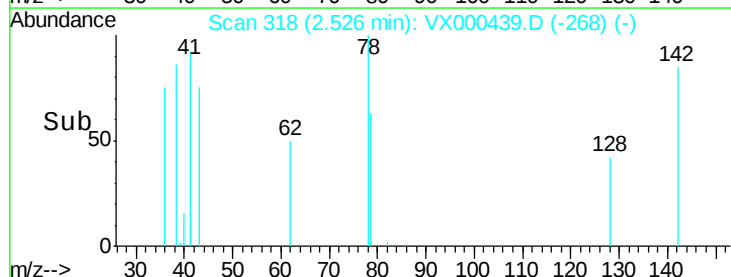
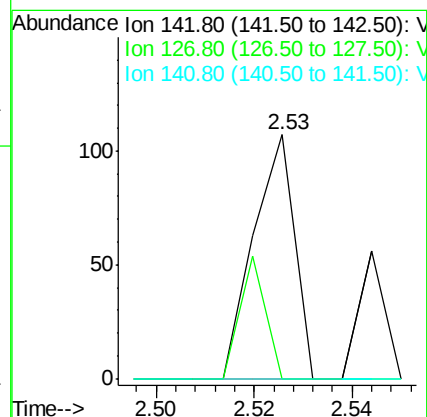
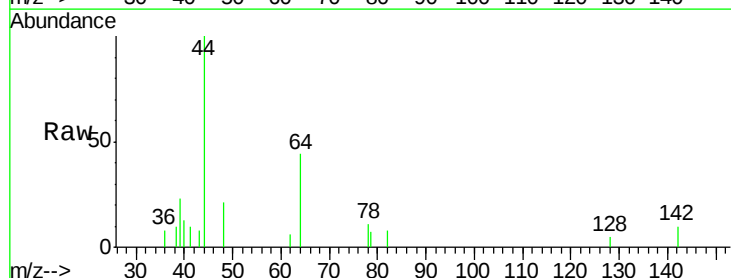
Tgt Ion: 142 Resp: 62

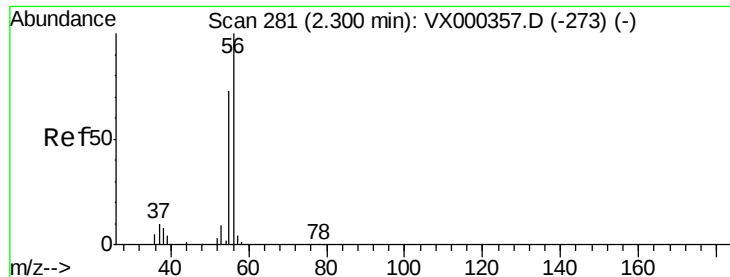
Ion Ratio Lower Upper

142 100

127 32.3 39.2 58.8#

141 0.0 11.7 17.5#





#13

Acrolein

Concen: 15.022 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

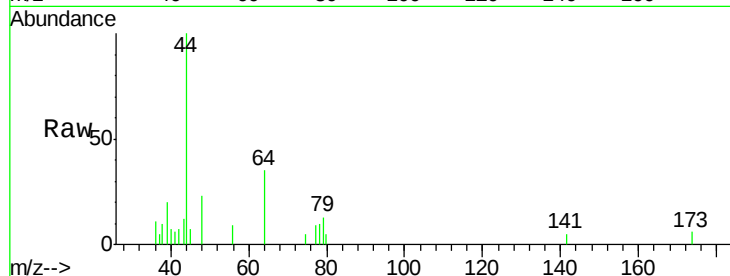
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 79

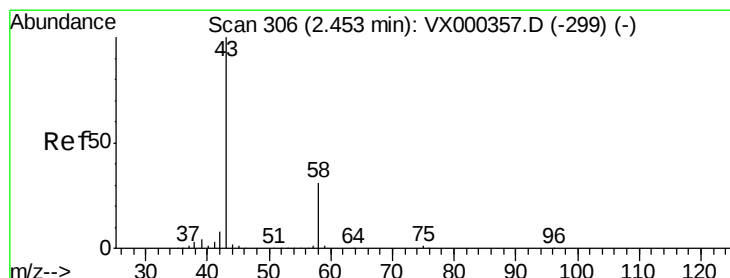
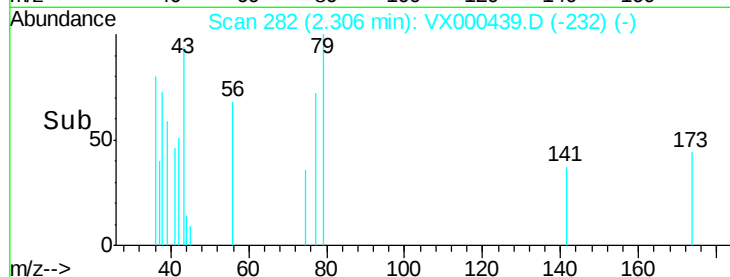
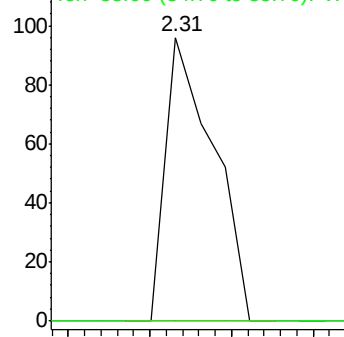
Ion Ratio Lower Upper

56 100

55 0.0 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.079 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000439.D

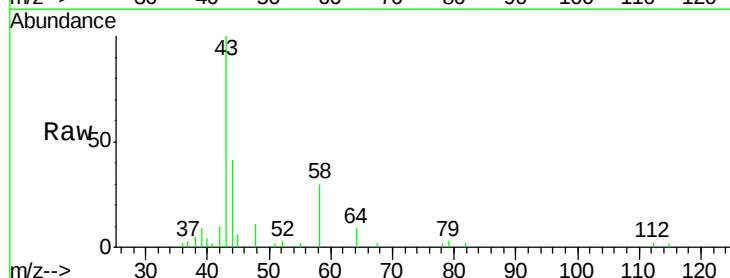
Acq: 26 Mar 2018 14:34

Tgt Ion: 43 Resp: 6451

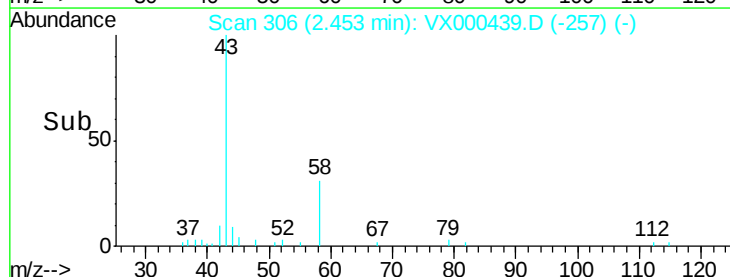
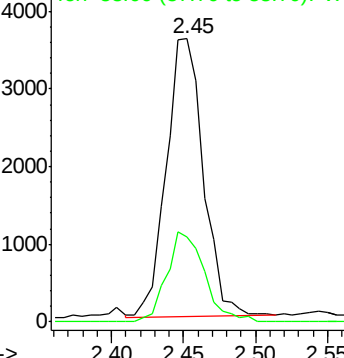
Ion Ratio Lower Upper

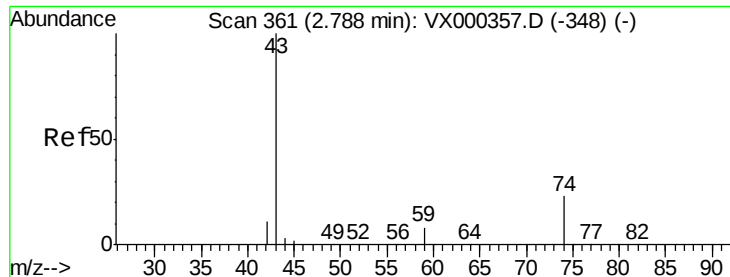
43 100

58 30.9 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

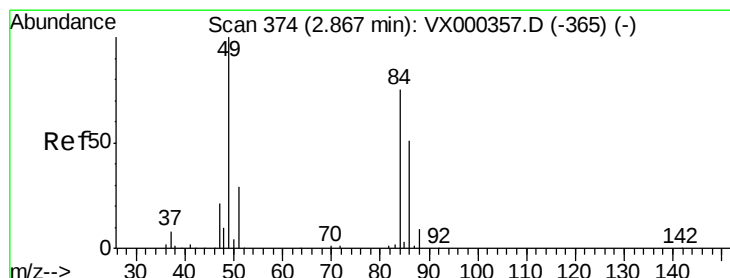
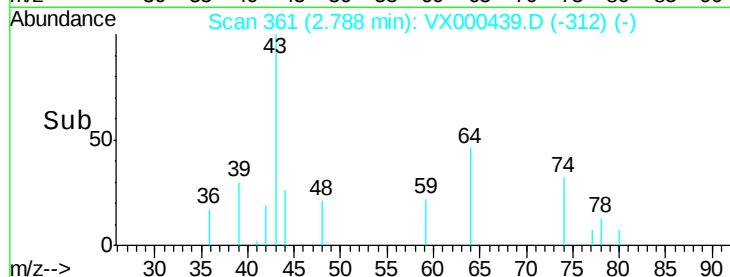
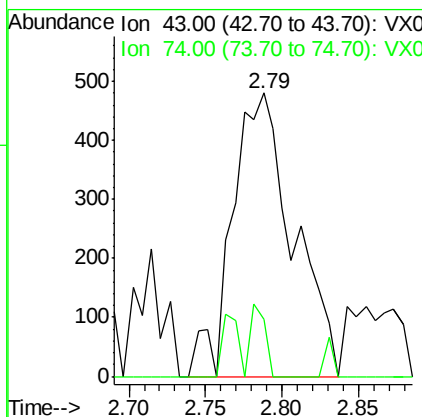
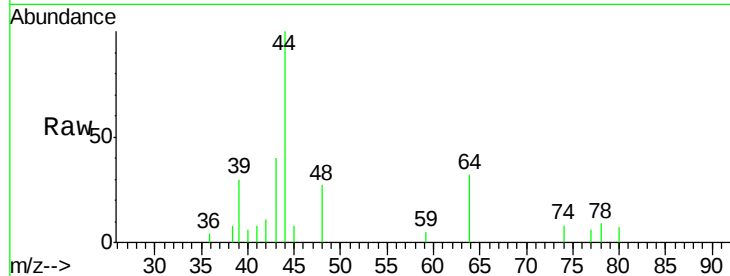




#18
Methyl Acetate
Concen: 0.499 ug/l
RT: 2.79 min Scan# 361
Delta R.T. -0.00 min
Lab File: VX000439.D
Acq: 26 Mar 2018 14:34

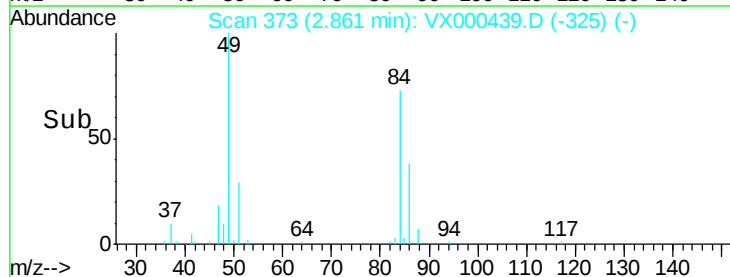
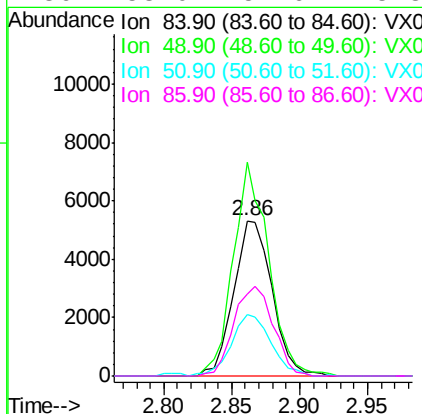
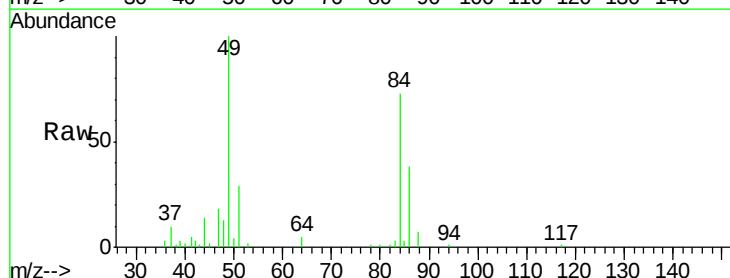
Instrument :
MSVOA_X
ClientSampled :

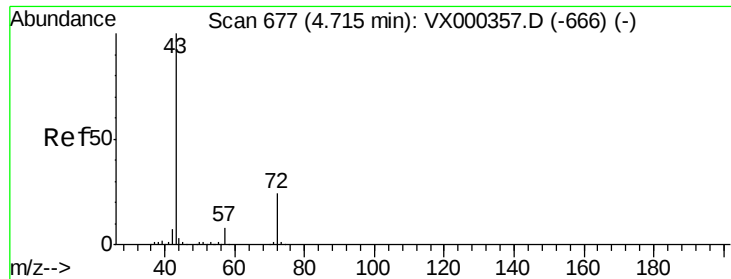
Tot Ion: 43 Resp: 1329
Ion Ratio Lower Upper
43 100
74 6.0 19.4 29.2#



#20
Methylene Chloride
Concen: 7.131 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.01 min
Lab File: VX000439.D
Acq: 26 Mar 2018 14:34

Tgt Ion: 84 Resp: 10461
Ion Ratio Lower Upper
84 100
49 137.5 100.6 151.0
51 39.3 31.6 47.4
86 53.0 52.6 78.8





#25

2-Butanone

Concen: 0.875 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

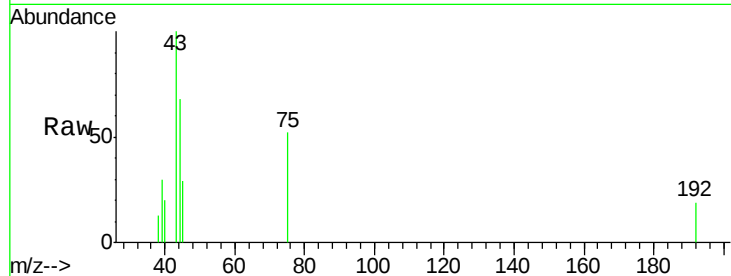
ClientSampleId :

Tot Ion: 43 Resp: 1249

Ion Ratio Lower Upper

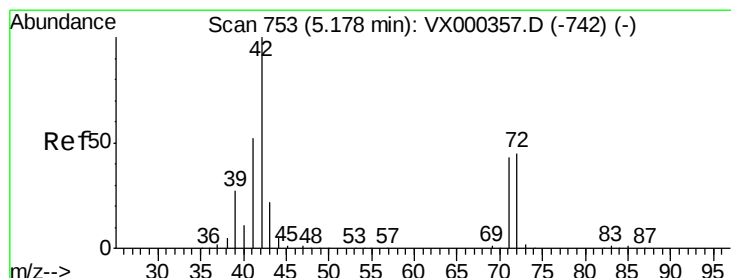
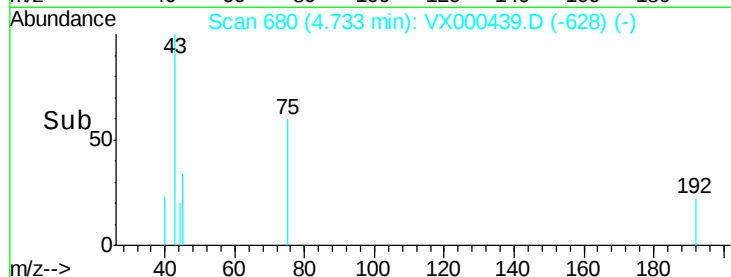
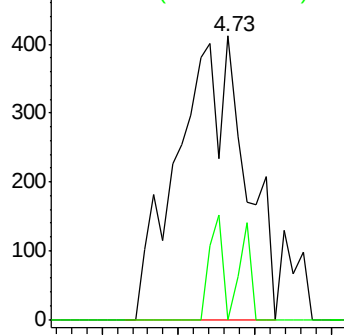
43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.410 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

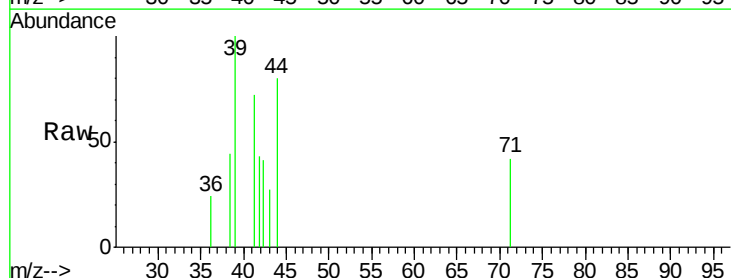
Tgt Ion: 42 Resp: 360

Ion Ratio Lower Upper

42 100

72 19.4 37.9 56.9#

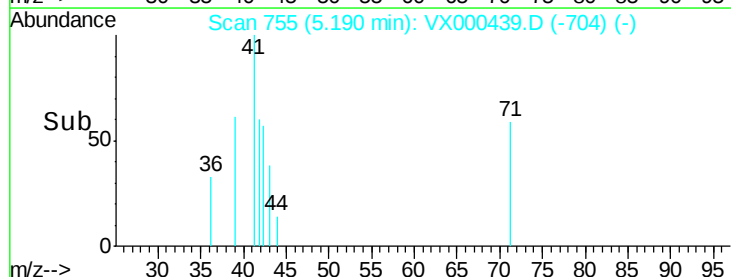
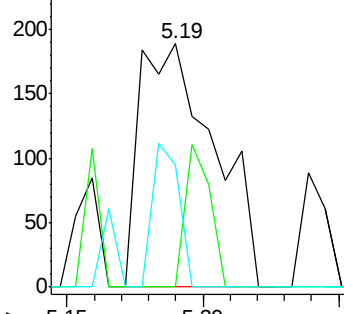
71 21.1 34.4 51.6#

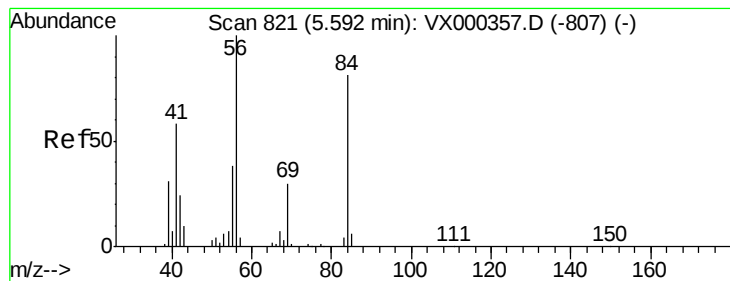


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.503 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.08 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :
MSVOA_X
ClientSampled :

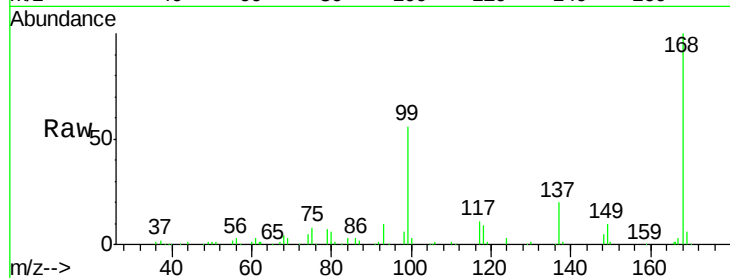
Tot Ion: 56 Resp: 2895

Ion Ratio Lower Upper

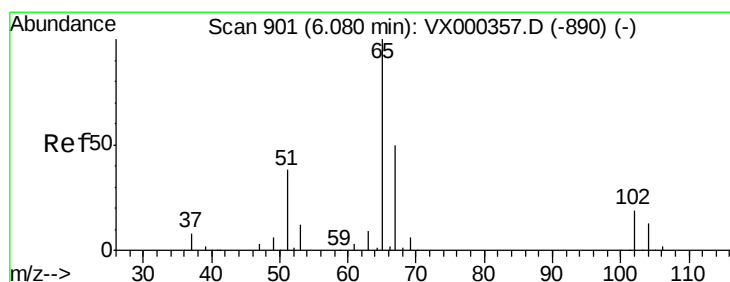
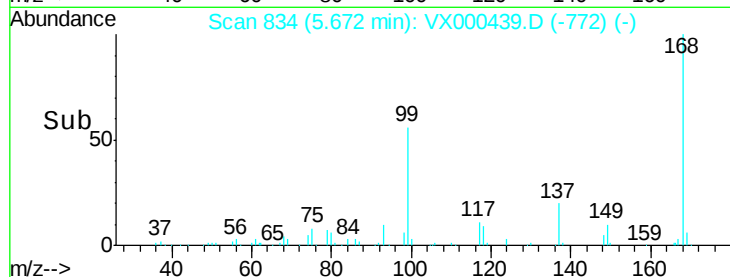
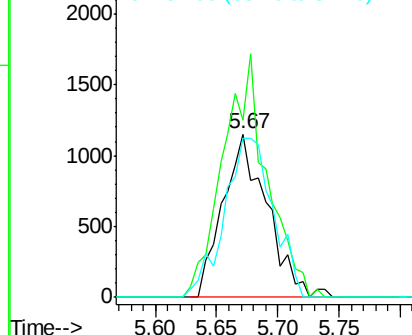
56 100

69 108.5 23.4 35.0#

84 97.1 71.0 106.4



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: 55.272 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX000439.D

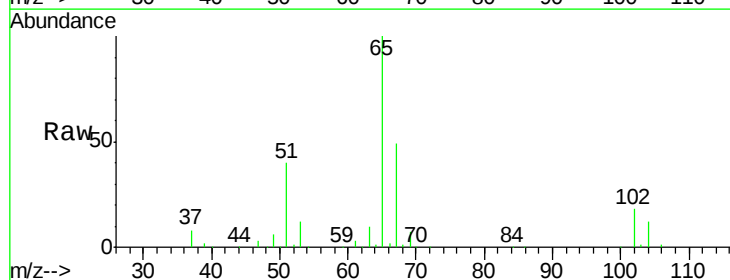
Acq: 26 Mar 2018 14:34

Tgt Ion: 65 Resp: 84387

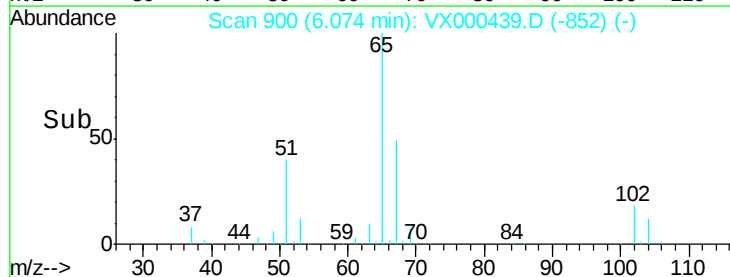
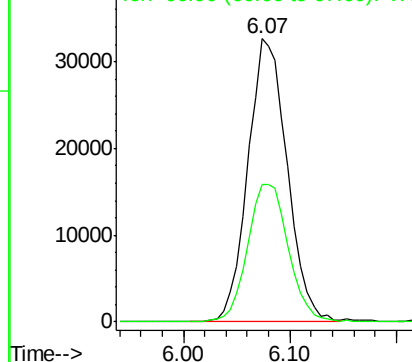
Ion Ratio Lower Upper

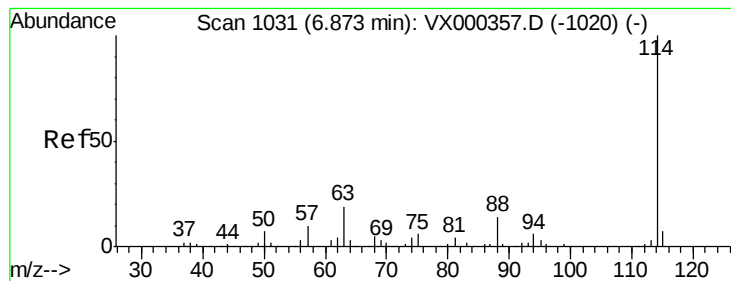
65 100

67 50.4 0.0 103.2



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: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

ClientSampled :

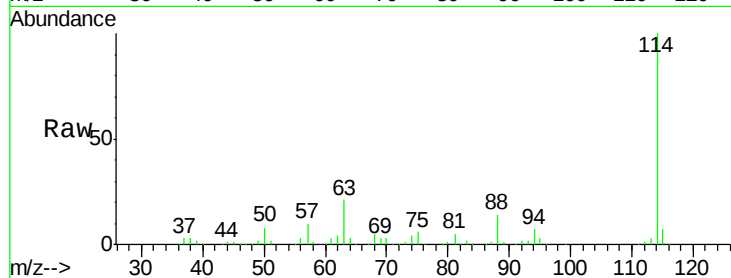
Tot Ion:114 Resp: 206057

Ion Ratio Lower Upper

114 100

63 20.6 0.0 38.4

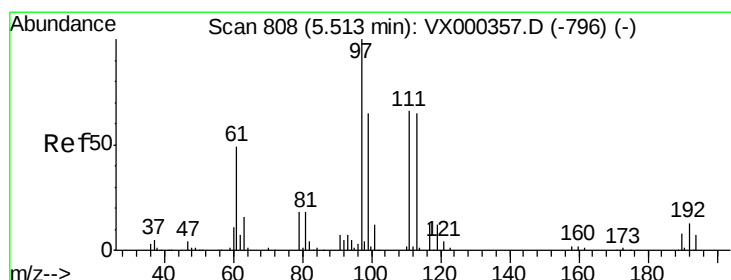
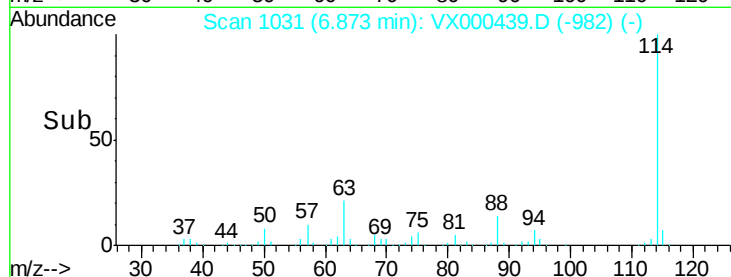
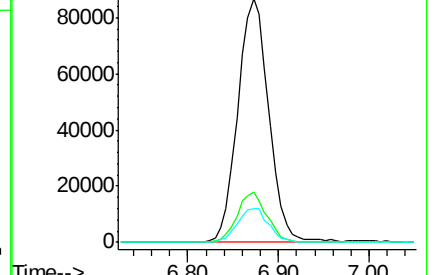
88 13.9 0.0 27.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.429 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

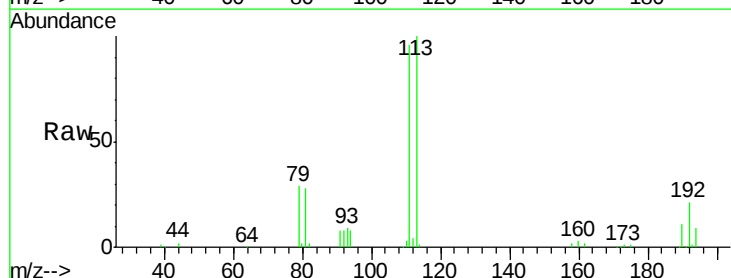
Tgt Ion:113 Resp: 68070

Ion Ratio Lower Upper

113 100

111 98.1 82.4 123.6

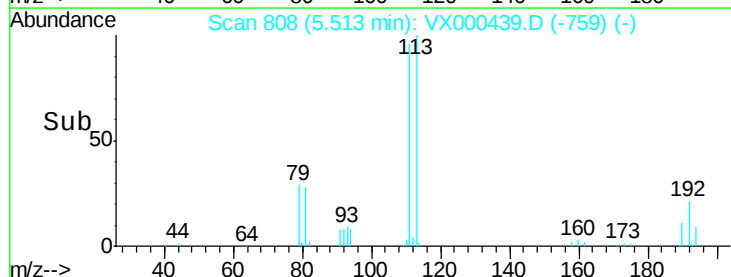
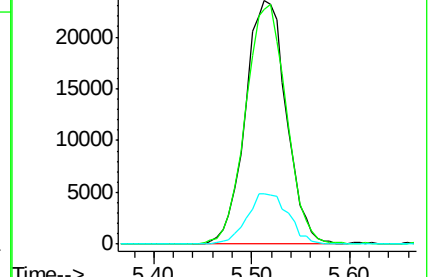
192 21.0 15.8 23.6

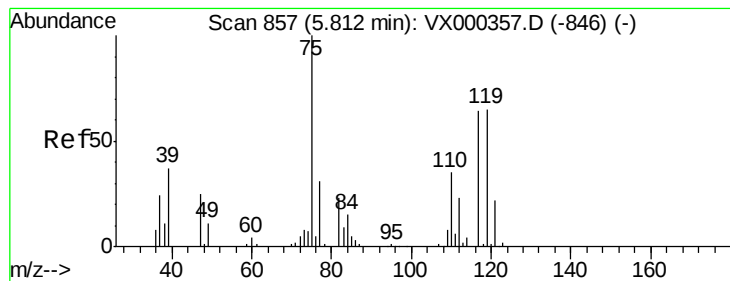


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.575 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

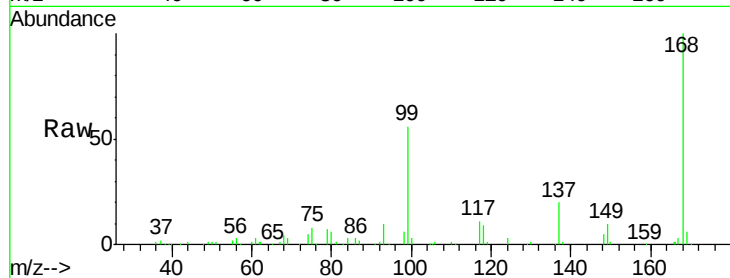
Tot Ion: 75 Resp: 8831

Ion Ratio Lower Upper

75 100

110 10.0 17.9 53.7#

77 0.0 24.0 36.0#

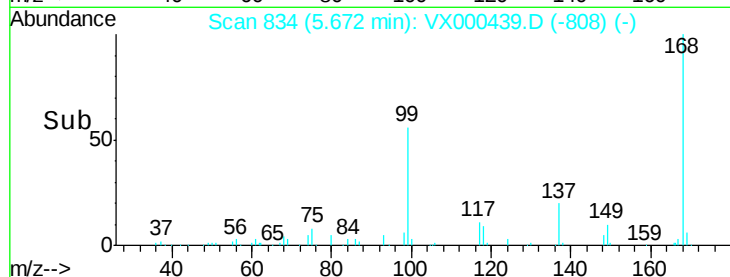


Abundance Ion 74.90 (74.60 to 75.60): VX000357.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX000357.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX000357.D (-846) (-)

Time-->



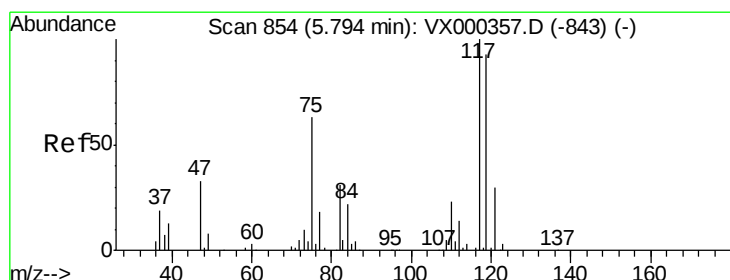
Abundance

Ion 74.90 (74.60 to 75.60): VX000357.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX000357.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX000357.D (-846) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.772 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

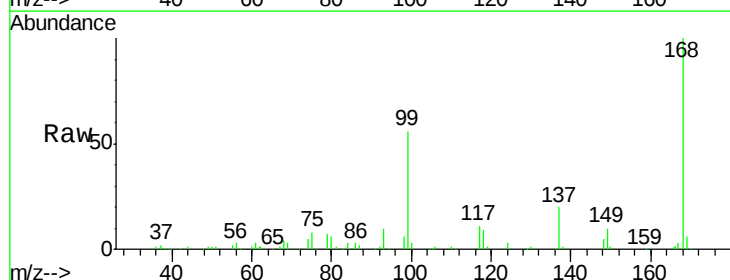
Tgt Ion: 117 Resp: 11688

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.2#

121 0.0 24.8 37.2#

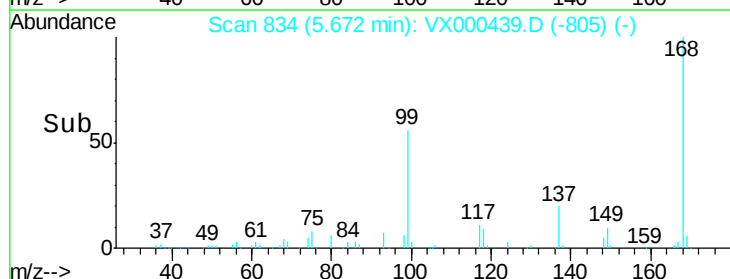


Abundance Ion 116.80 (116.50 to 117.50): VX000357.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000357.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000357.D (-843) (-)

Time-->



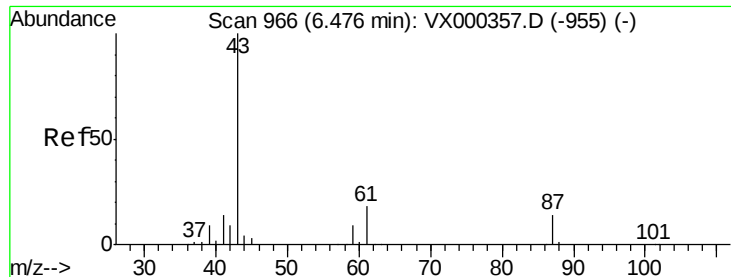
Abundance

Ion 116.80 (116.50 to 117.50): VX000357.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000357.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000357.D (-843) (-)

Time-->



#43

Isopropyl Acetate

Concen: 0.428 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

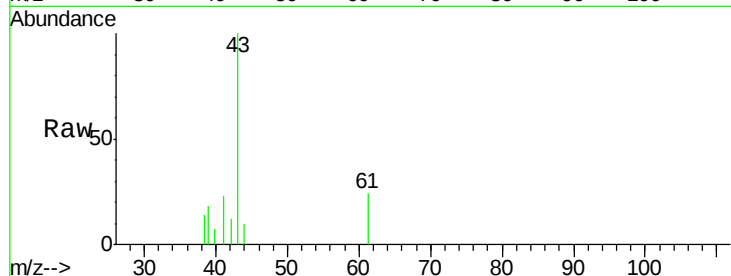
Tot Ion: 43 Resp: 1681

Ion Ratio Lower Upper

43 100

61 14.3 14.4 21.6#

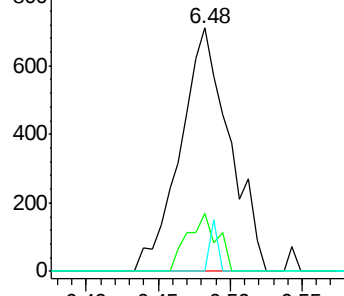
87 3.3 11.0 16.4#



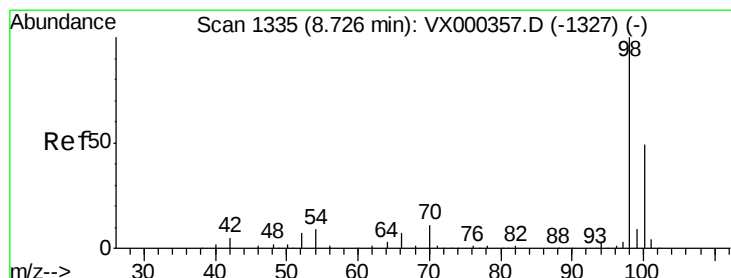
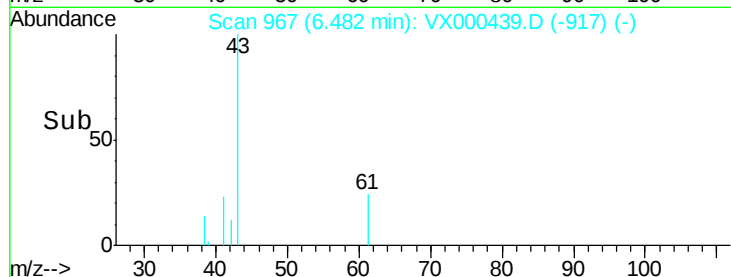
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



Time-->



#50

Toluene-d8

Concen: 48.565 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000439.D

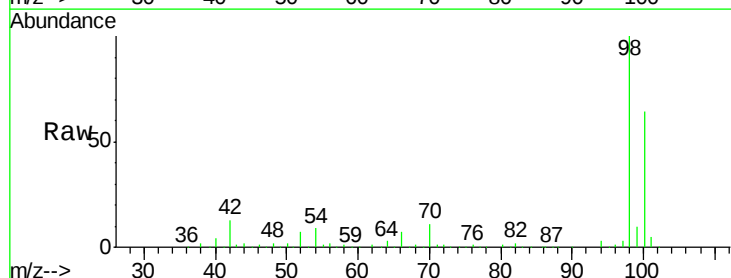
Acq: 26 Mar 2018 14:34

Tgt Ion: 98 Resp: 261145

Ion Ratio Lower Upper

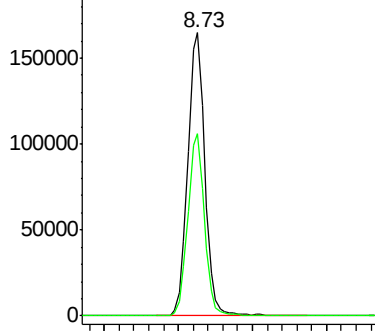
98 100

100 62.8 51.2 76.8

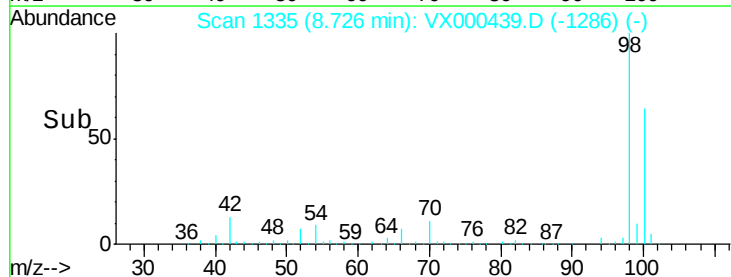


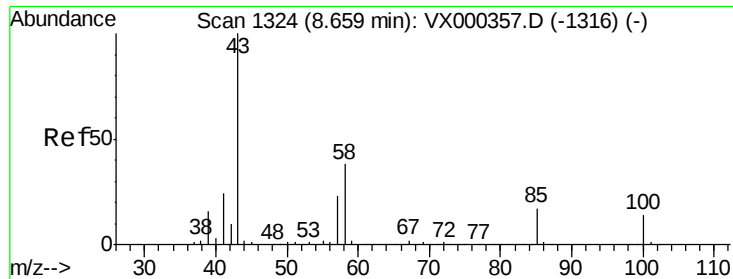
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.393 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

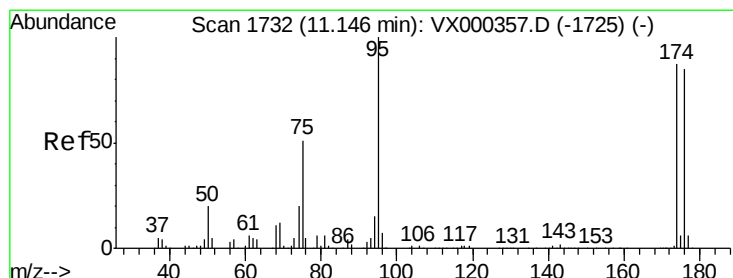
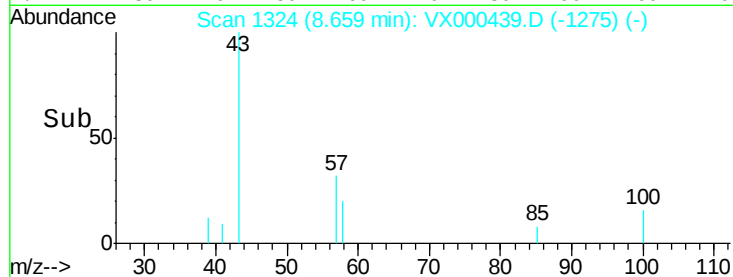
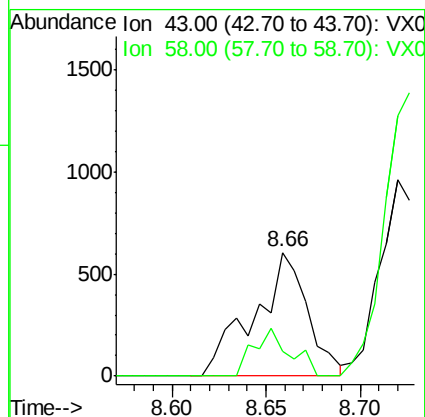
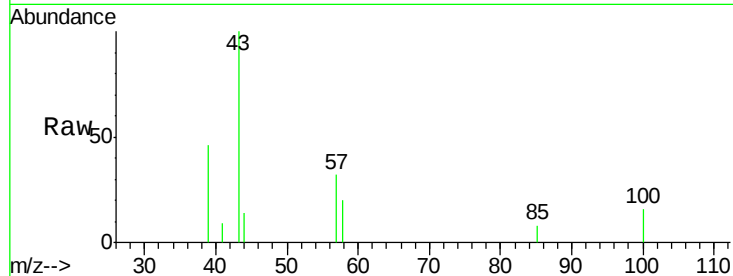
ClientSampleId :

Tot Ion: 43 Resp: 1193

Ion Ratio Lower Upper

43 100

58 26.4 30.3 45.5#



#62

4-Bromofluorobenzene

Concen: 39.019 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

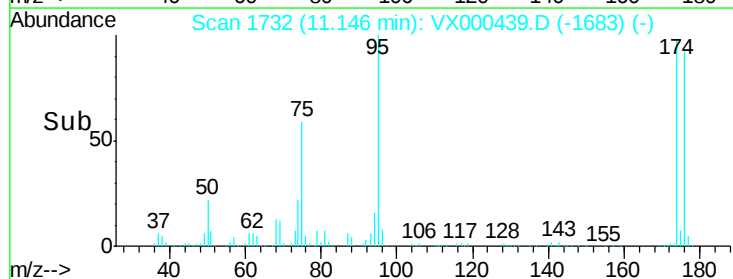
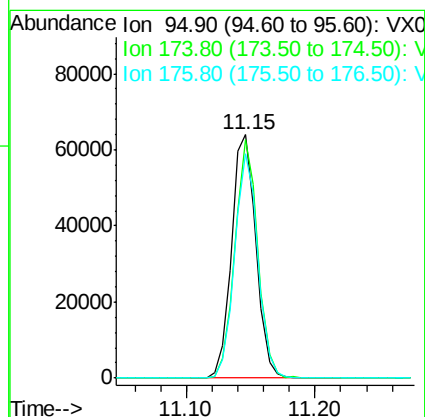
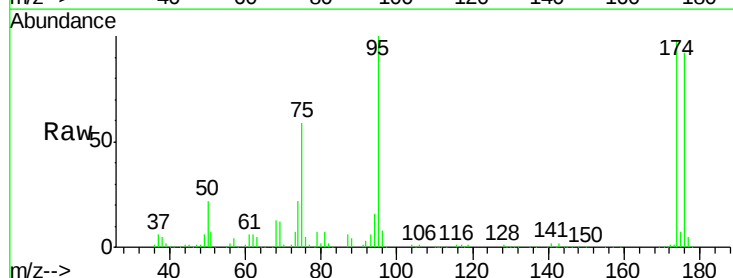
Tgt Ion: 95 Resp: 85139

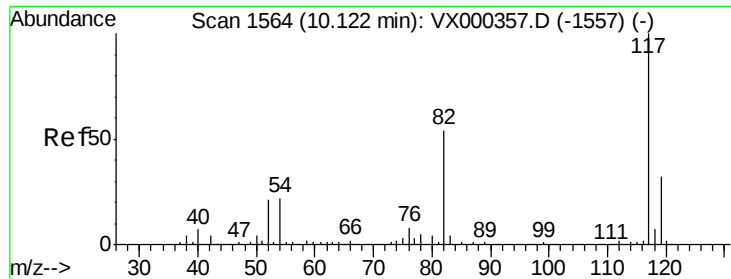
Ion Ratio Lower Upper

95 100

174 91.9 0.0 173.6

176 87.7 0.0 164.6

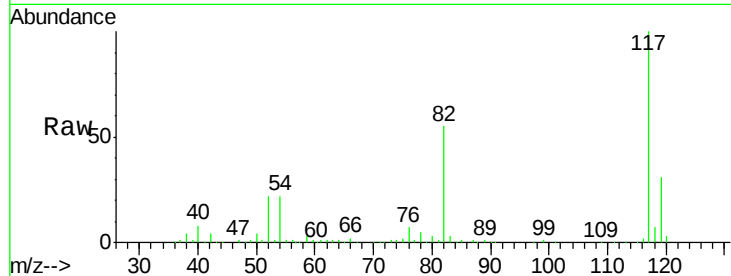




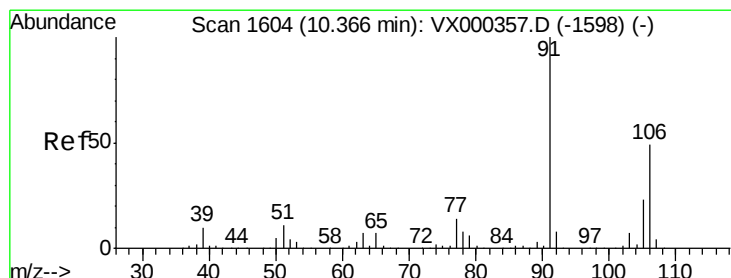
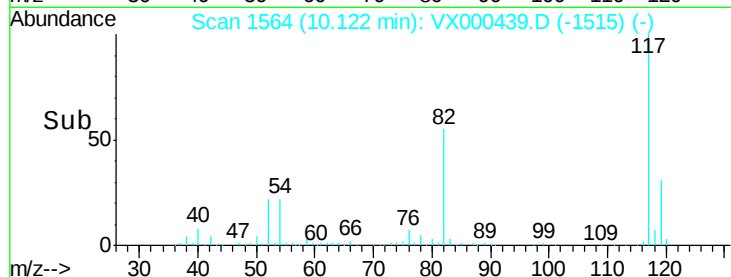
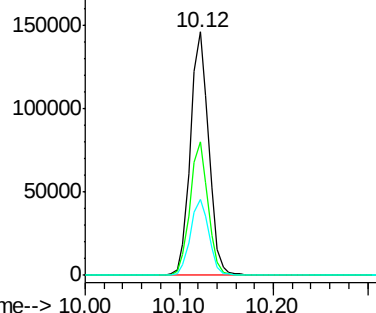
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000439.D
Acq: 26 Mar 2018 14:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 197309
Ion Ratio Lower Upper
117 100
82 54.8 43.8 65.8
119 31.3 24.9 37.3

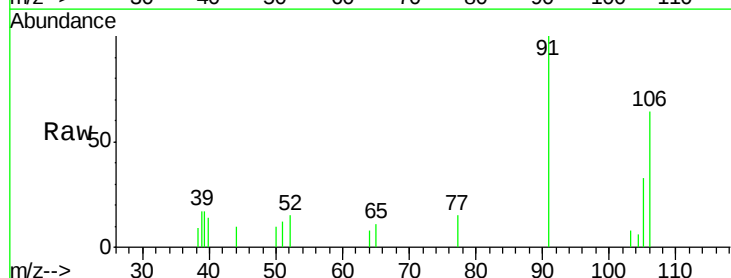


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

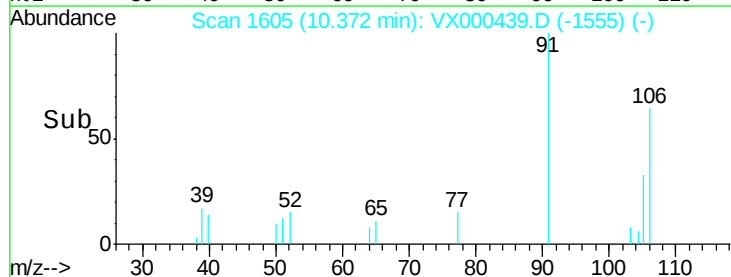
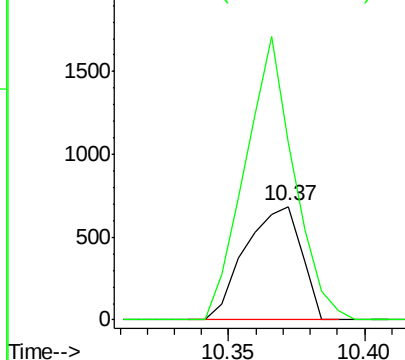


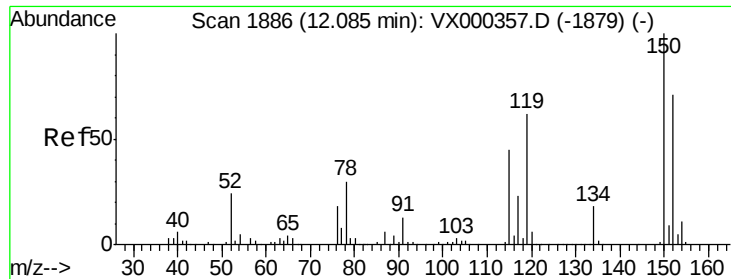
#68
m/p-Xylenes
Concen: 0.334 ug/l
RT: 10.37 min Scan# 1605
Delta R.T. 0.01 min
Lab File: VX000439.D
Acq: 26 Mar 2018 14:34

Tgt Ion:106 Resp: 978
Ion Ratio Lower Upper
106 100
91 217.3 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

ClientSampleId :

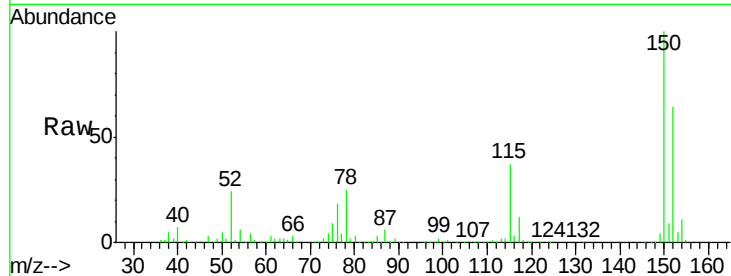
Tot Ion:152 Resp: 93759

Ion Ratio Lower Upper

152 100

115 55.7 39.8 119.3

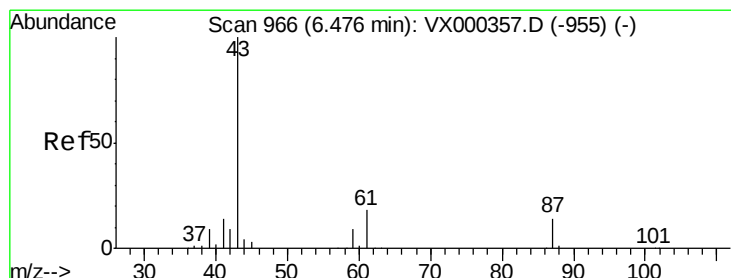
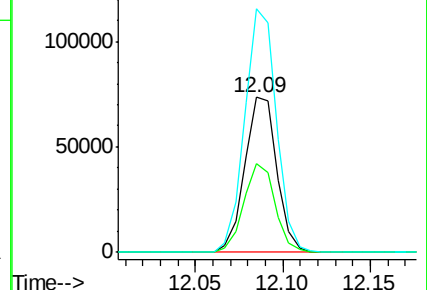
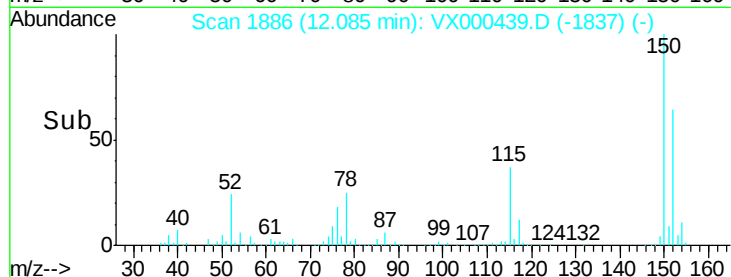
150 154.6 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Tgt Ion: 43 Resp: 1681

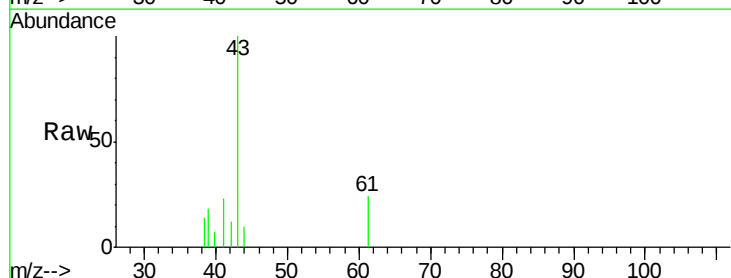
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 14.3 14.4 21.6#

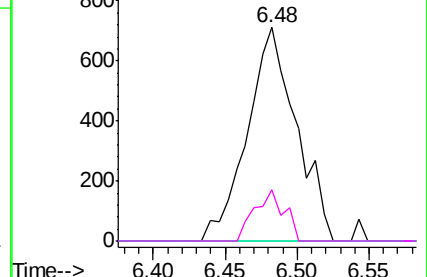
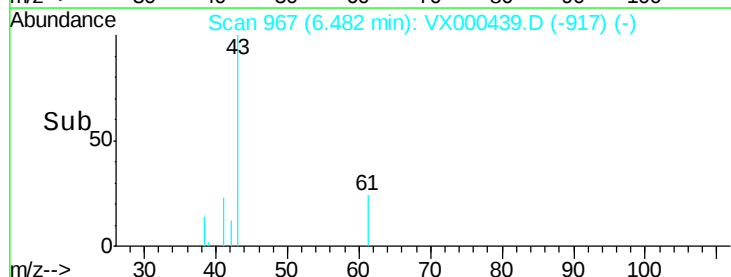


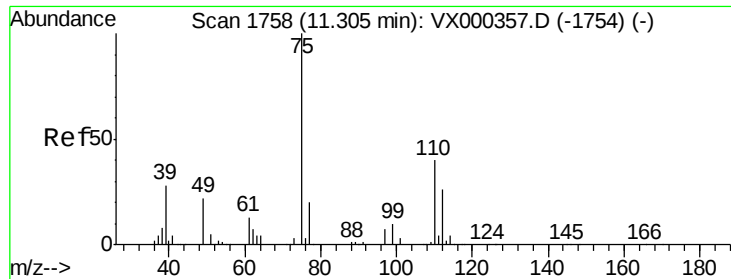
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

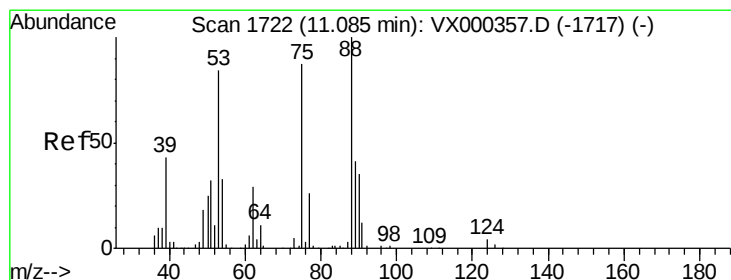
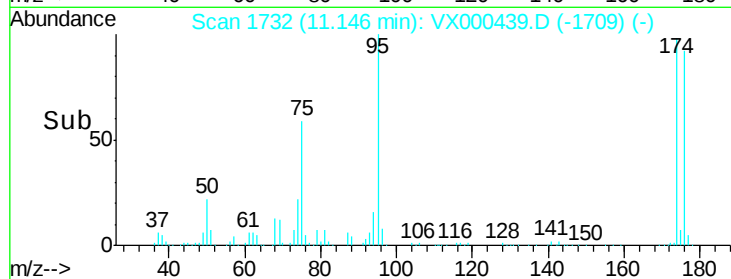
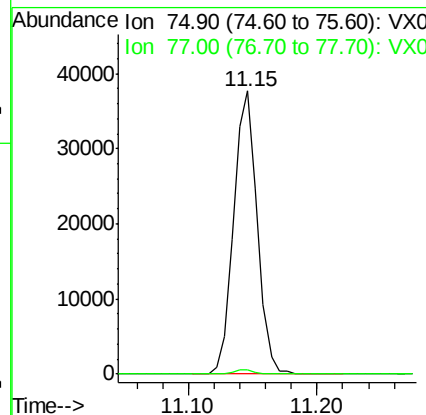
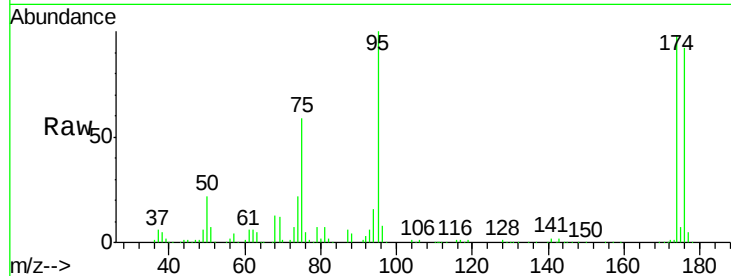




#76
 1,2,3-Trichloropropane
 Concen: 23.959 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000439.D
 Acq: 26 Mar 2018 14:34

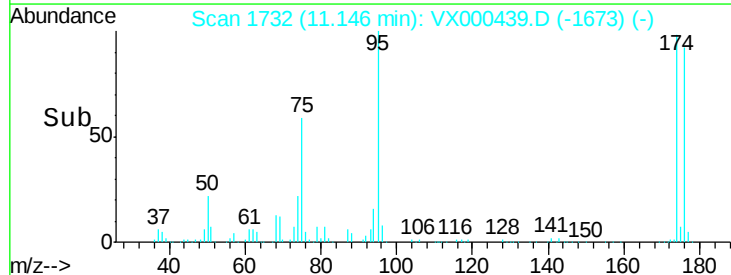
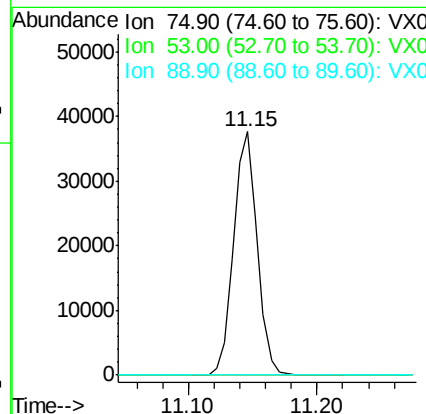
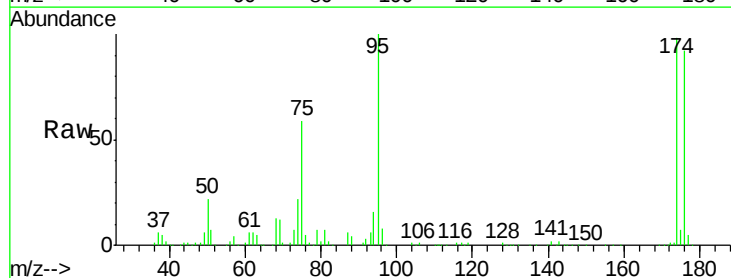
Instrument :
 MSVOA_X
 ClientSampleId :

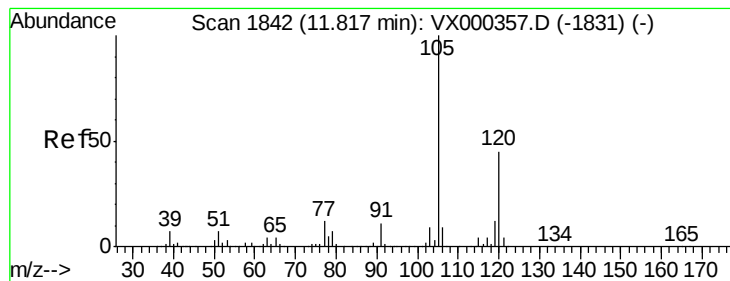
Tot Ion: 75 Resp: 48277
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.4 64.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.569 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.06 min
 Lab File: VX000439.D
 Acq: 26 Mar 2018 14:34

Tgt Ion: 75 Resp: 48277
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.7 121.1#
 89 0.0 39.4 59.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.418 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

Instrument :

MSVOA_X

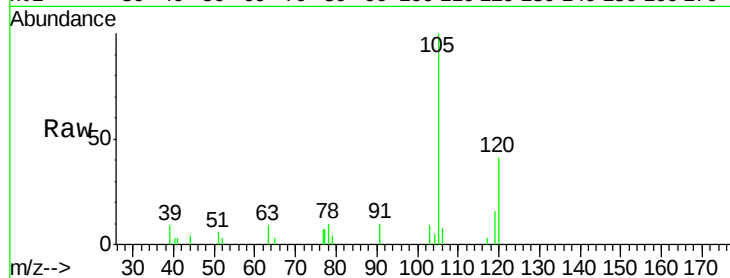
ClientSampleId :

Tot Ion:105 Resp: 2288

Ion Ratio Lower Upper

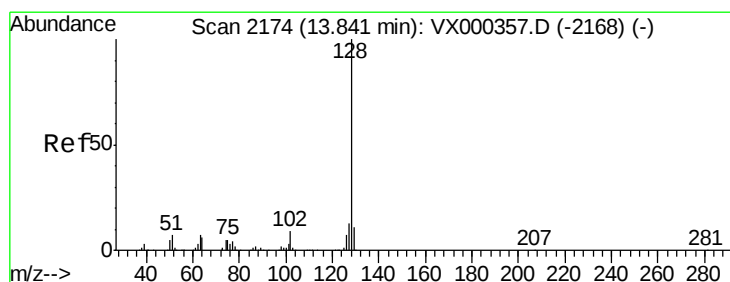
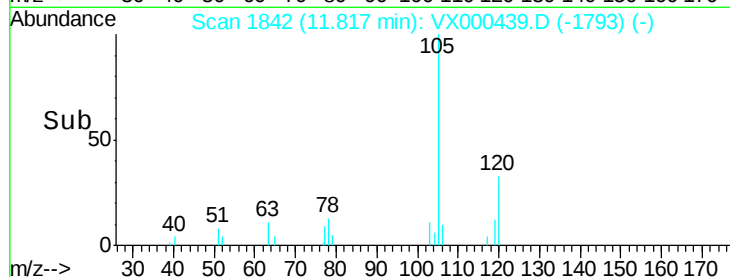
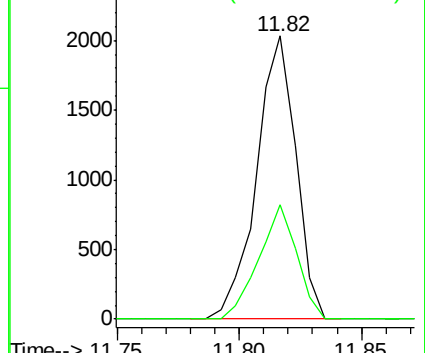
105 100

120 38.8 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 1.871 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000439.D

Acq: 26 Mar 2018 14:34

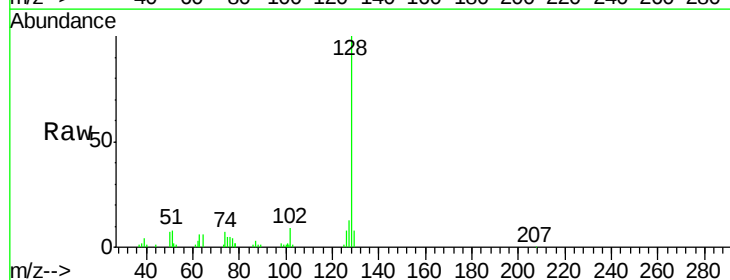
Tgt Ion:128 Resp: 14334

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

129 11.4 8.9 13.3



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

