

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030218\
 Data File : VX000193.D
 Acq On : 02 Mar 2018 16:01
 Operator : JC/MD
 Sample : J1756-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 03 04:41:41 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 15 12:46:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	96988	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	156456	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	147630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	76045	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	61296	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
35) Dibromofluoromethane	5.52	113	46867	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	8.73	98	191610	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
62) 4-Bromofluorobenzene	11.15	95	67536	44.22	ug/l	0.00
Spiked Amount			Recovery	=	88.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	216	Below Cal	#	3
10) Methyl Iodide	2.52	142	240	0.20	ug/l #	59
13) Acrolein	2.31	56	84	0.38	ug/l #	1
15) Acrylonitrile	3.16	53	632	0.79	ug/l #	54
16) Acetone	2.45	43	2664	3.39	ug/l #	81
17) Carbon Disulfide	2.57	76	1159	0.39	ug/l #	71
20) Methylene Chloride	2.86	84	735	Below Cal	#	79
25) 2-Butanone	4.73	43	643	0.59	ug/l #	48
31) Cyclohexane	5.67	56	2446	1.62	ug/l #	40
36) 1,1-Dichloropropene	5.67	75	8021	5.71	ug/l #	48
38) Carbon Tetrachloride	5.67	117	9946	6.56	ug/l #	16
41) Methacrylonitrile	5.08	41	21	Below Cal	#	1
43) Isopropyl Acetate	6.48	43	1016	0.37	ug/l #	78
68) m/p-Xylenes	10.36	106	427	0.21	ug/l #	63
74) N-amyl acetate	6.48	43	1016	0.42	ug/l #	74
76) 1,2,3-Trichloropropane	11.15	75	38249	24.28	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.15	75	38249	69.15	ug/l #	12
95) Naphthalene	13.84	128	10636	1.70	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

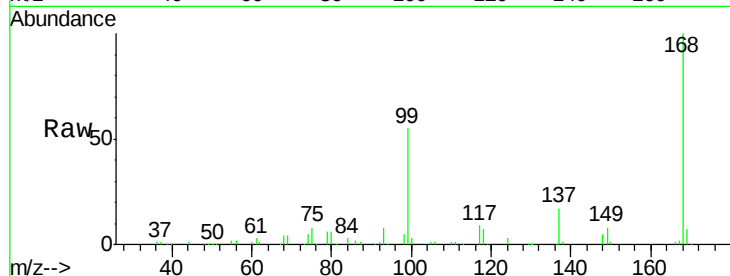
ClientSampleId :

Tot Ion:168 Resp: 96988

Ion Ratio Lower Upper

168 100

99 55.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

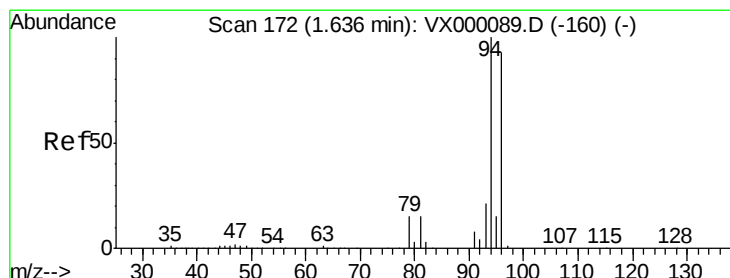
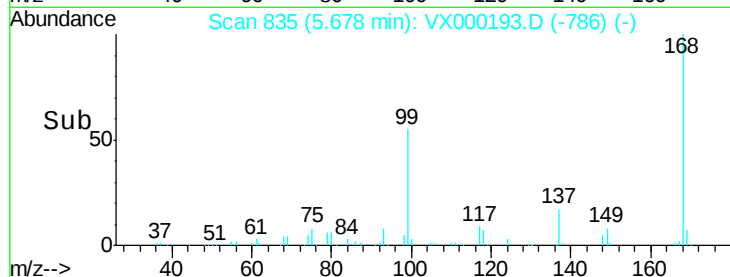
20000

10000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX000193.D

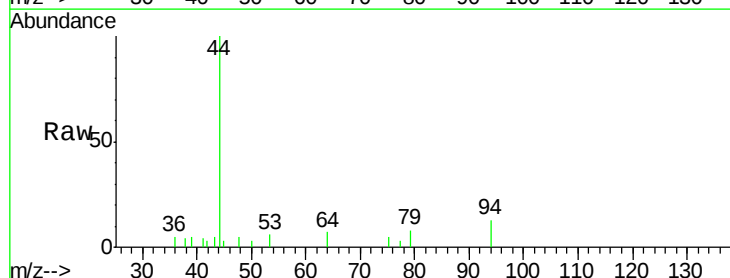
Acq: 02 Mar 2018 16:01

Tgt Ion: 94 Resp: 216

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

250

200

150

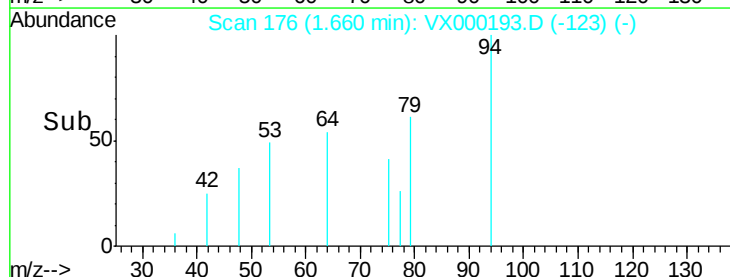
100

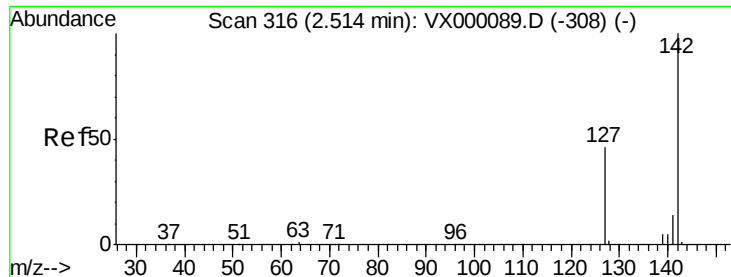
50

0

Time-->

1.62 1.64 1.66 1.68 1.70

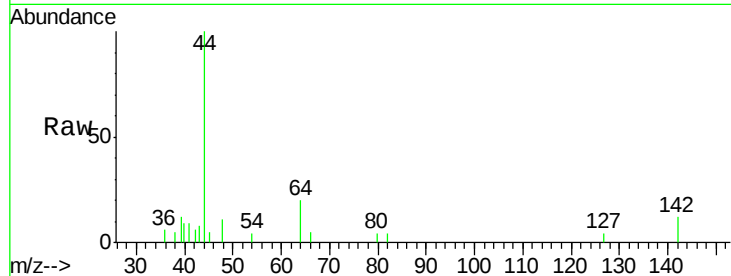




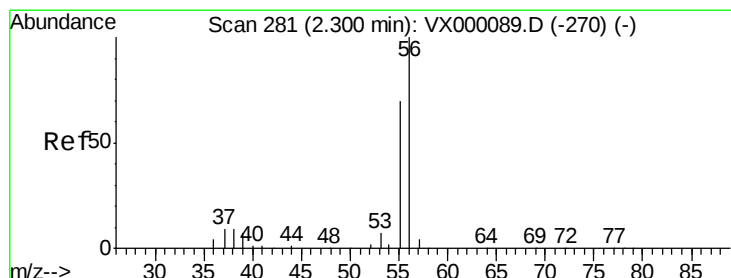
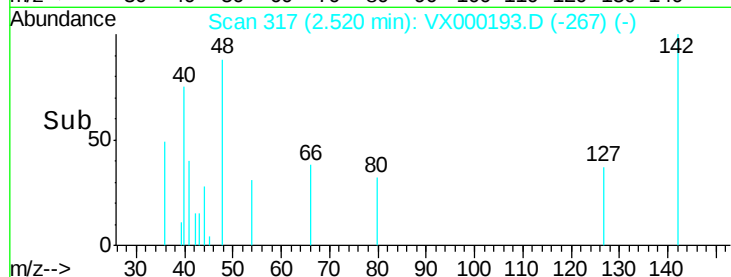
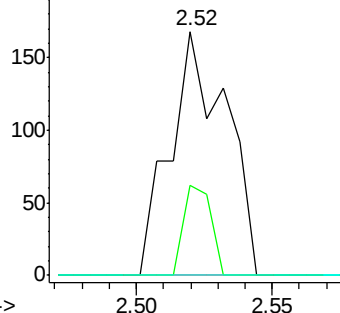
#10
Methyl Iodide
Concen: 0.20 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX000193.D
Acq: 02 Mar 2018 16:01

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 240
Ion Ratio Lower Upper
142 100
127 17.9 36.8 55.2#
141 0.0 11.6 17.4#

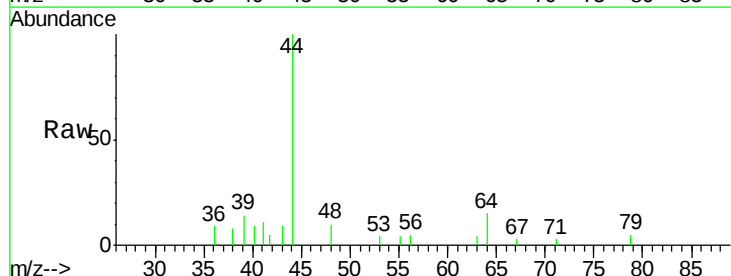


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

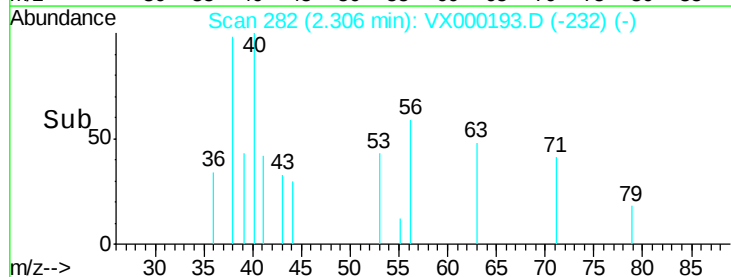
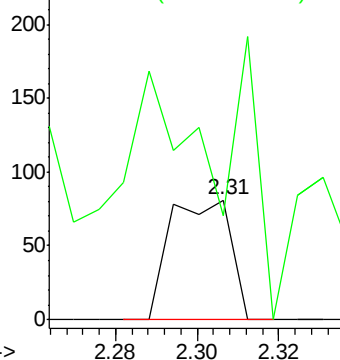


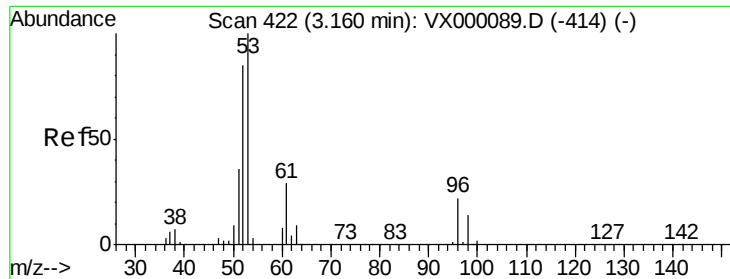
#13
Acrolein
Concen: 0.38 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX000193.D
Acq: 02 Mar 2018 16:01

Tgt Ion: 56 Resp: 84
Ion Ratio Lower Upper
56 100
55 489.3 56.2 84.4#



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





#15

Acrylonitrile

Concen: 0.79 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

ClientSampled :

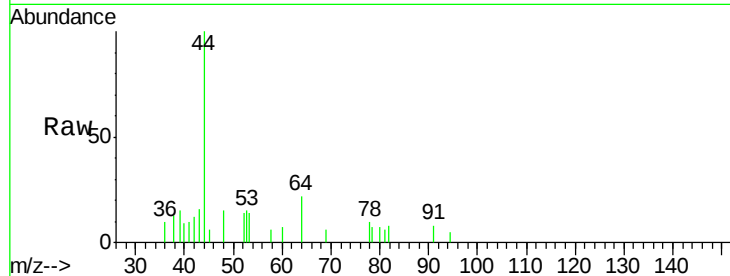
Tot Ion: 53 Resp: 632

Ion Ratio Lower Upper

53 100

52 39.2 66.5 99.7#

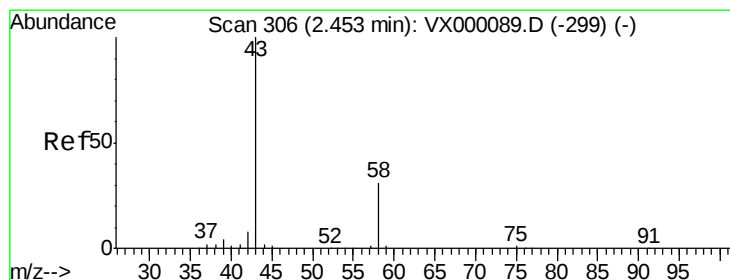
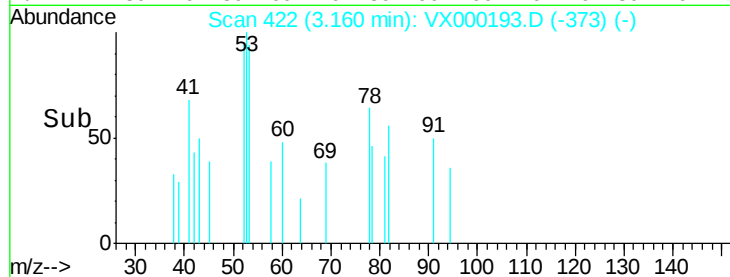
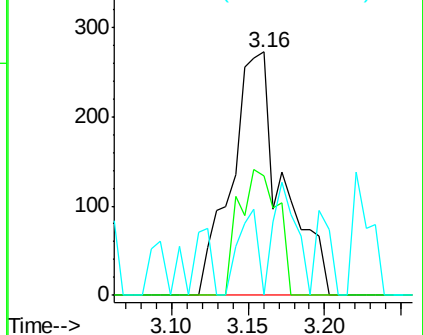
51 13.3 29.0 43.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 3.39 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000193.D

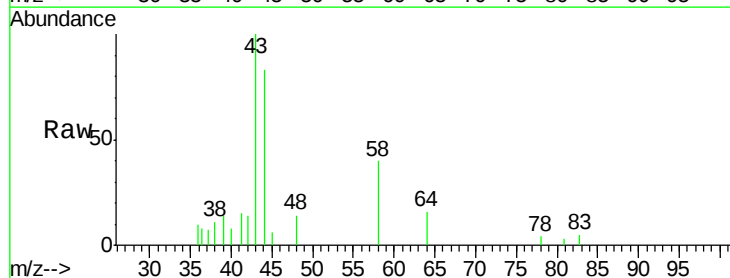
Acq: 02 Mar 2018 16:01

Tgt Ion: 43 Resp: 2664

Ion Ratio Lower Upper

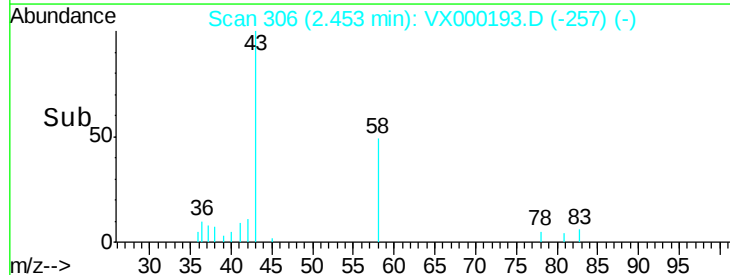
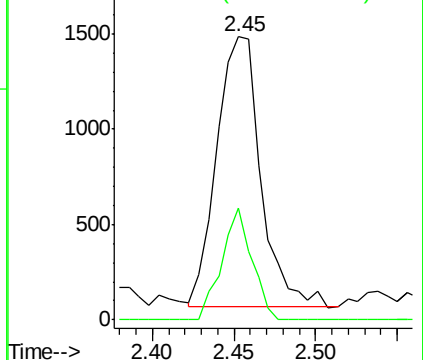
43 100

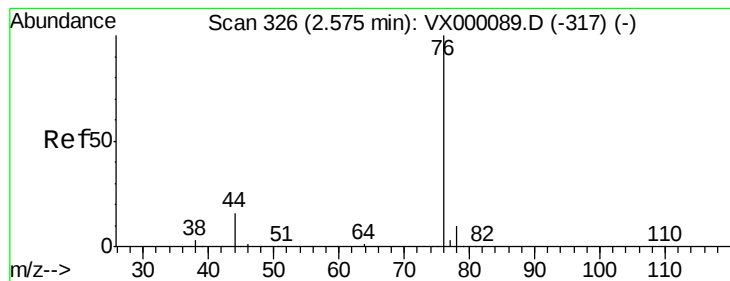
58 41.5 25.0 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.39 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

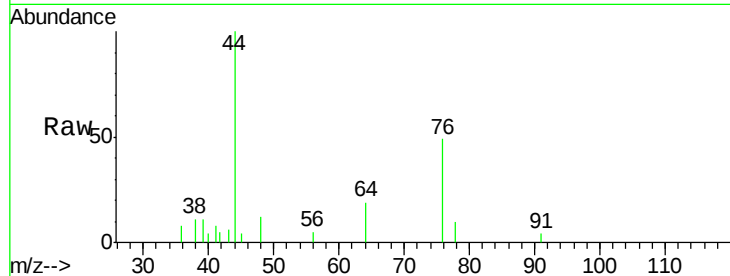
ClientSampled :

Tot Ion: 76 Resp: 1159

Ion Ratio Lower Upper

76 100

78 20.5 7.8 11.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

600

400

200

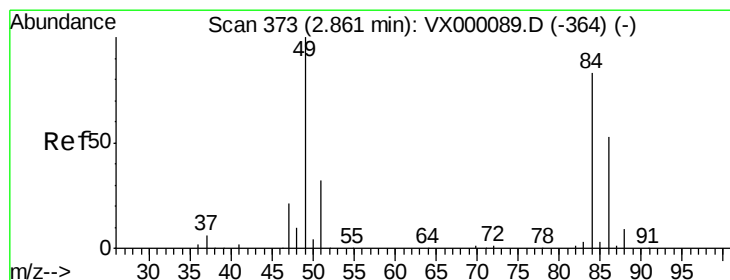
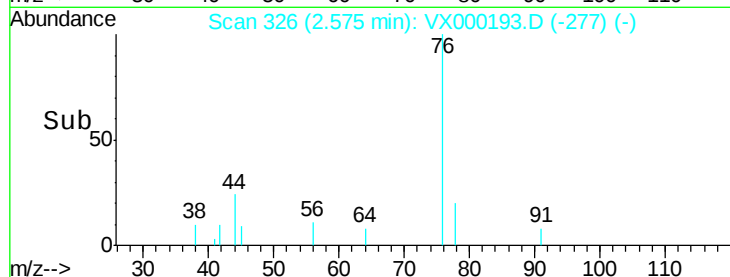
0

2.50

2.55

2.60

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Tgt Ion: 84 Resp: 735

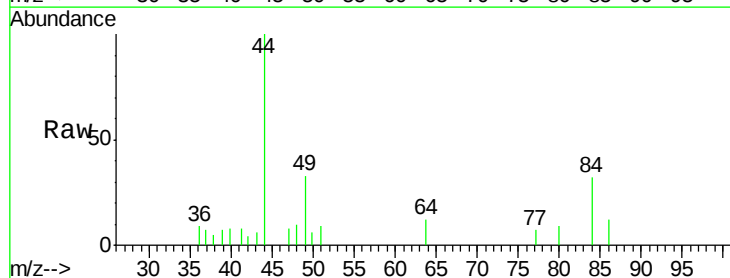
Ion Ratio Lower Upper

84 100

49 102.8 96.1 144.1

51 28.1 30.5 45.7#

86 37.9 51.3 76.9#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

600

400

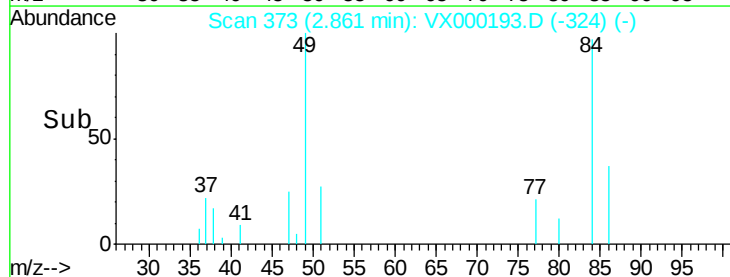
200

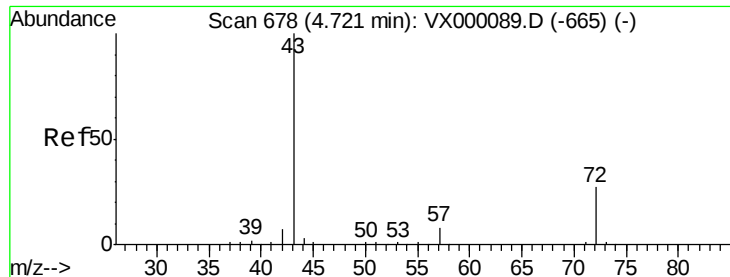
0

2.85

2.90

Time-->





#25

2-Butanone

Concen: 0.59 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

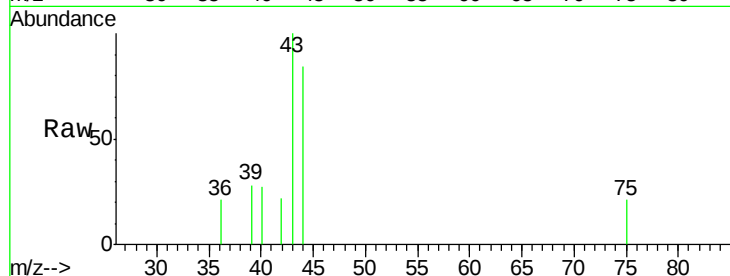
ClientSampleId :

Tot Ion: 43 Resp: 643

Ion Ratio Lower Upper

43 100

72 0.0 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.73

400

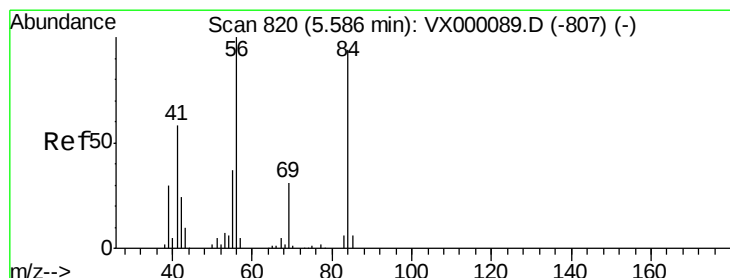
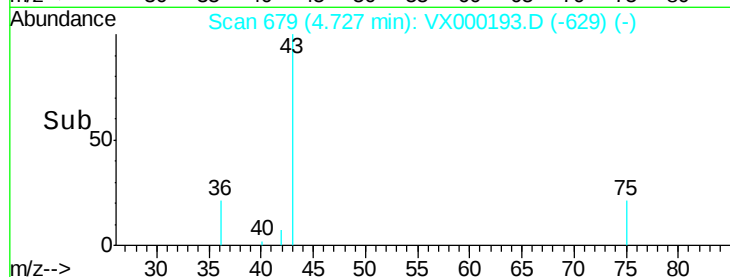
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.62 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

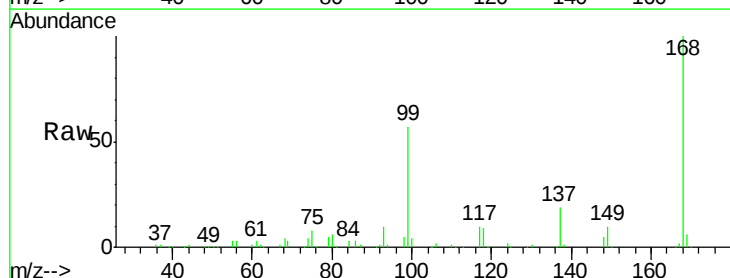
Tgt Ion: 56 Resp: 2446

Ion Ratio Lower Upper

56 100

69 123.1 24.9 37.3#

84 117.6 75.0 112.4#



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

2000

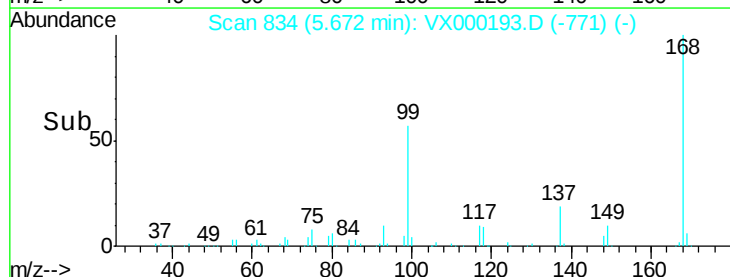
1500

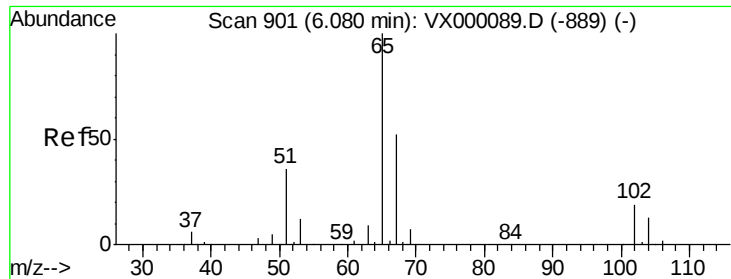
1000

500

0

Time-->

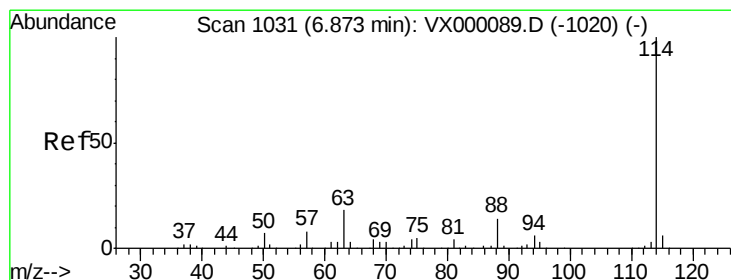
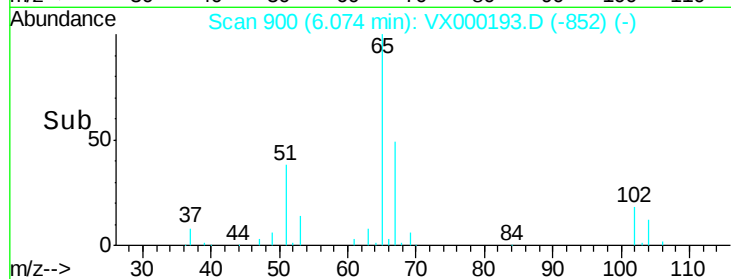
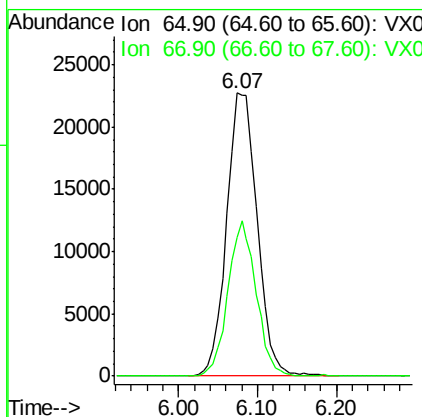
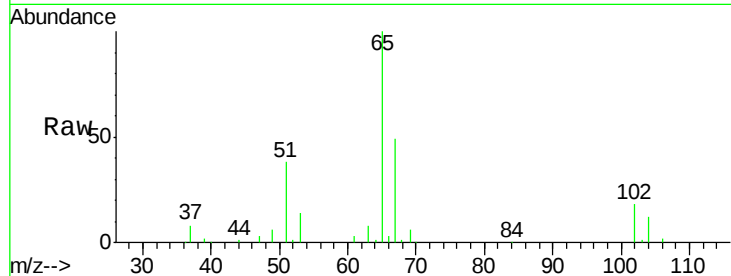




#33
 1,2-Dichloroethane-d4
 Concen: 50.61 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: VX000193.D
 Acq: 02 Mar 2018 16:01

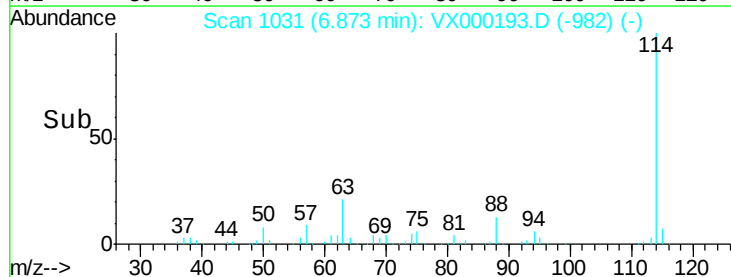
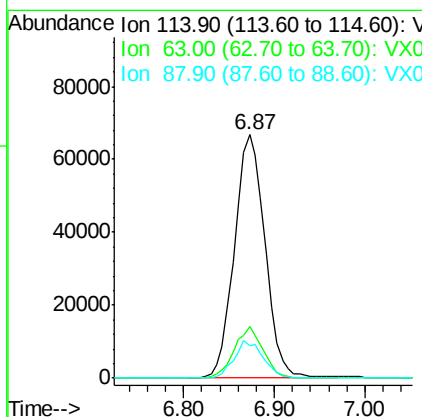
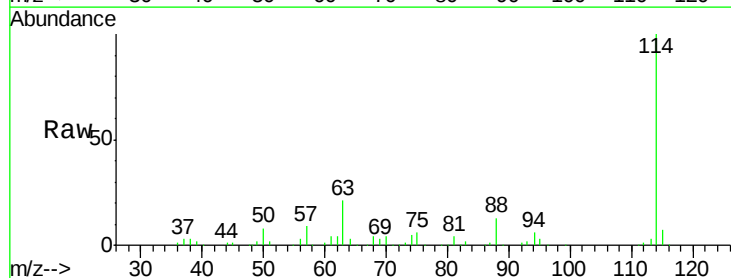
Instrument :
 MSVOA_X
 ClientSampled :

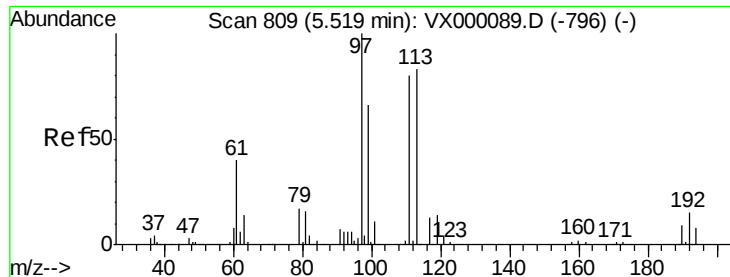
Tot Ion: 65 Resp: 61296
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000193.D
 Acq: 02 Mar 2018 16:01

Tgt Ion: 114 Resp: 156456
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 36.4
 88 13.4 0.0 29.0





#35

Dibromofluoromethane

Concen: 47.46 ug/l

RT: 5.52 min Scan# 809

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

ClientSampleId :

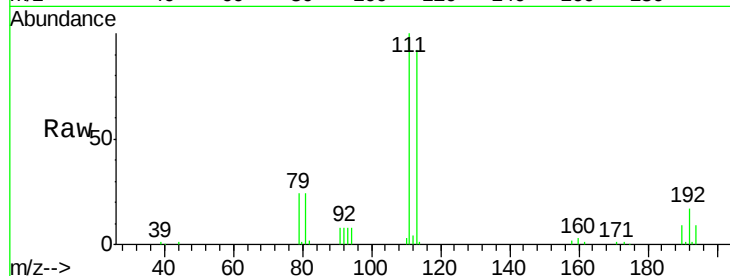
Tot Ion:113 Resp: 46867

Ion Ratio Lower Upper

113 100

111 103.0 81.0 121.6

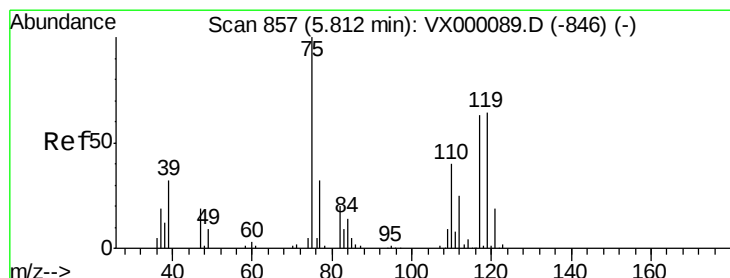
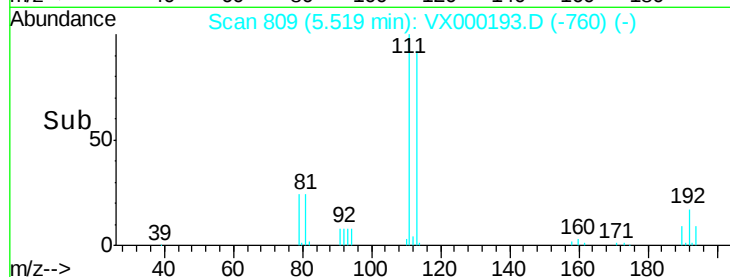
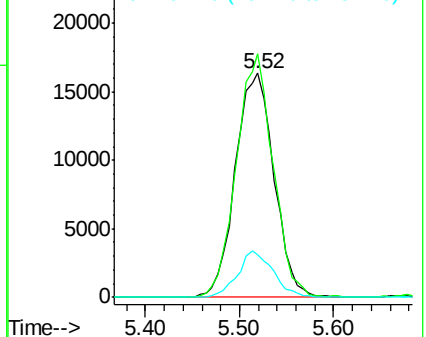
192 18.9 15.7 23.5



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: 5.71 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

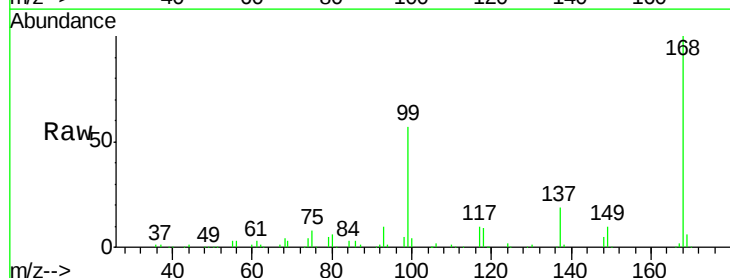
Tgt Ion: 75 Resp: 8021

Ion Ratio Lower Upper

75 100

110 9.4 19.5 58.5#

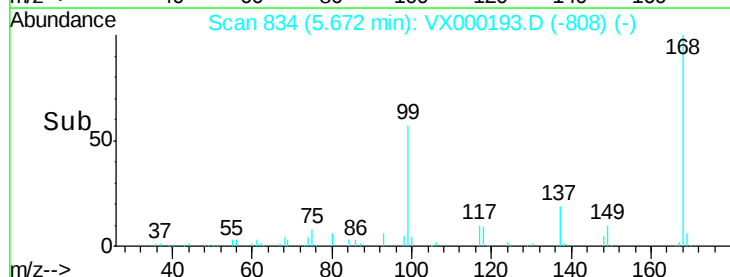
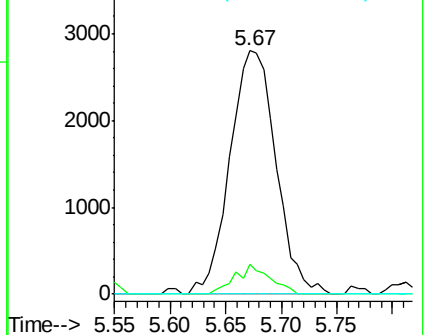
77 0.0 24.7 37.1#

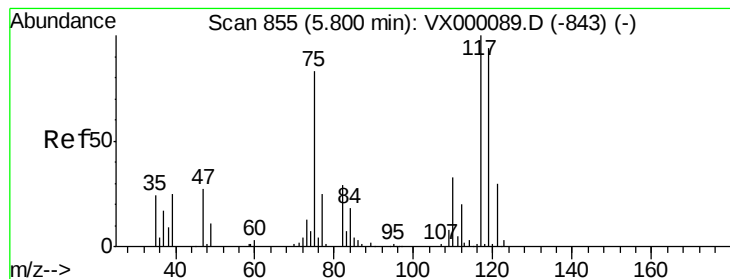


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.56 ua/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

ClientSampleId :

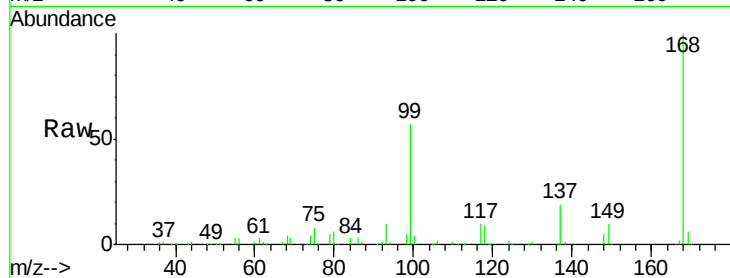
Tot Ion:117 Resp: 9946

Ion Ratio Lower Upper

117 100

119 4.1 75.3 112.9#

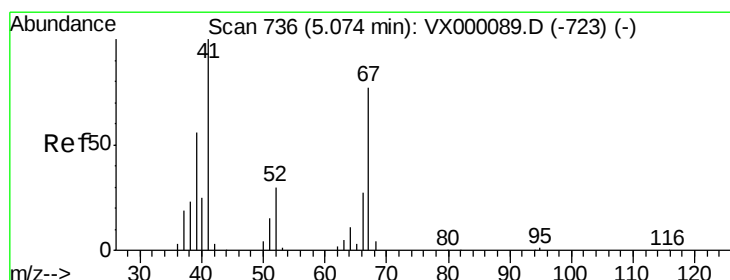
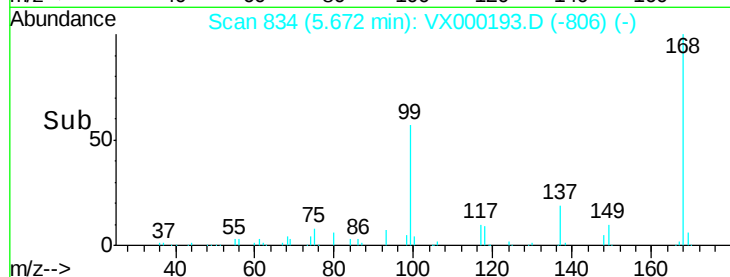
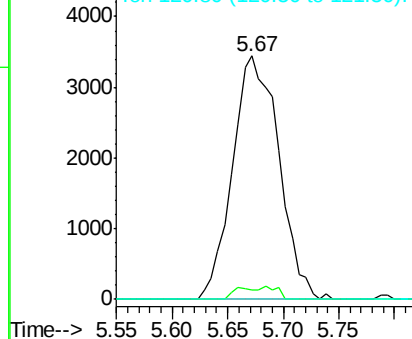
121 0.0 23.7 35.5#



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: Below Cal

RT: 5.08 min Scan# 737

Delta R.T. 0.01 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Tgt Ion: 41 Resp: 21

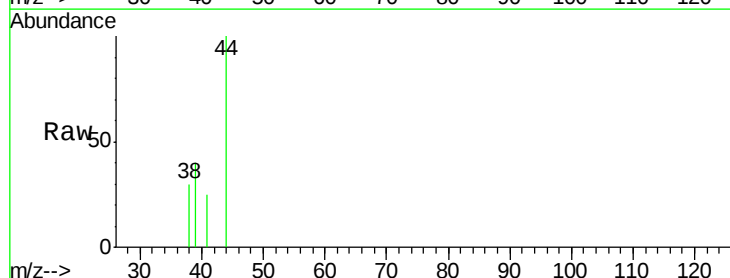
Ion Ratio Lower Upper

41 100

39 628.6 45.1 67.7#

67 0.0 61.0 91.4#

52 0.0 25.8 38.6#

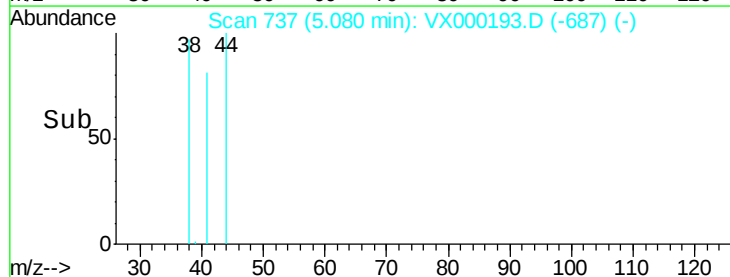
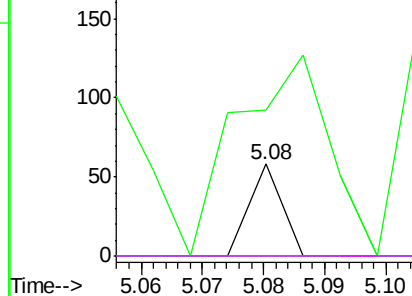


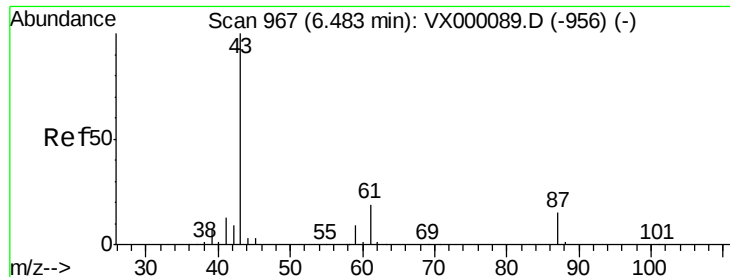
Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 0.37 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.01 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

ClientSampleId :

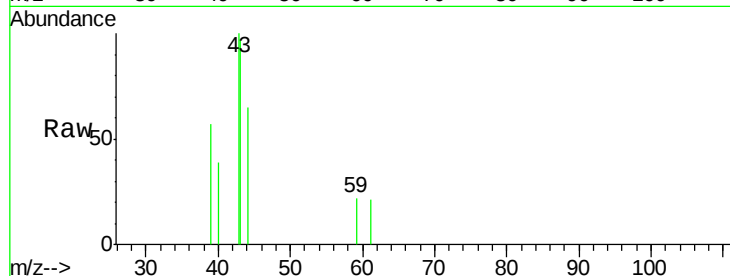
Tot Ion: 43 Resp: 1016

Ion Ratio Lower Upper

43 100

61 7.7 15.6 23.4#

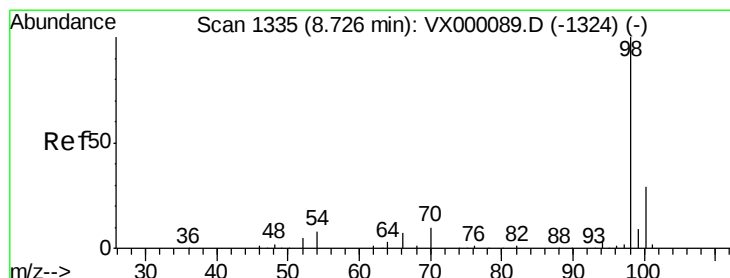
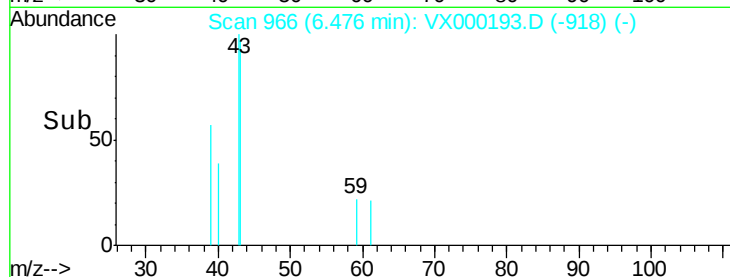
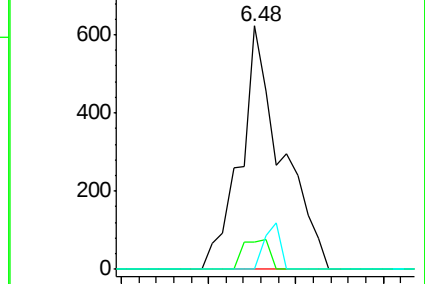
87 7.3 11.7 17.5#



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



#50

Toluene-d8

Concen: 49.19 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000193.D

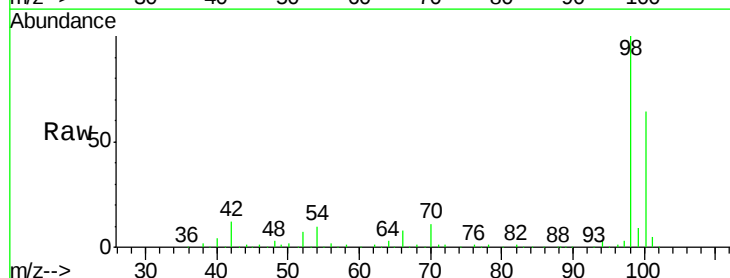
Acq: 02 Mar 2018 16:01

Tgt Ion: 98 Resp: 191610

Ion Ratio Lower Upper

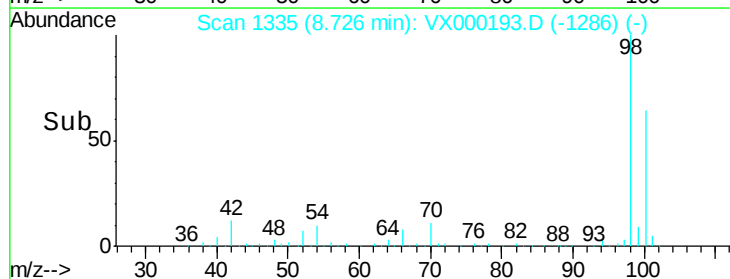
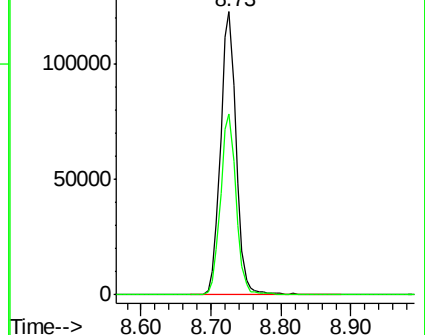
98 100

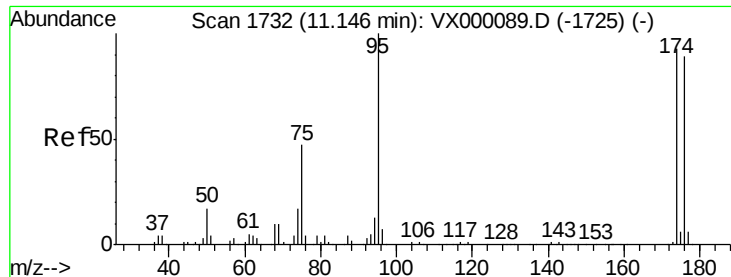
100 63.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.22 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

ClientSampleId :

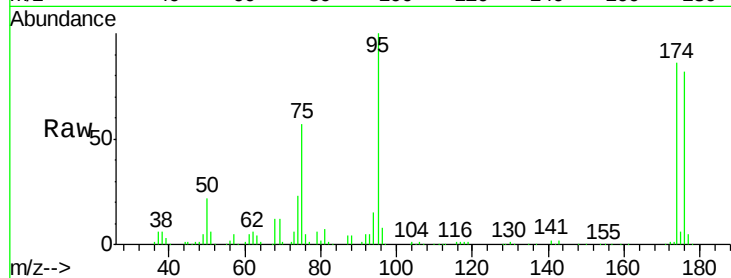
Tot Ion: 95 Resp: 67536

Ion Ratio Lower Upper

95 100

174 85.0 0.0 187.8

176 82.4 0.0 181.2

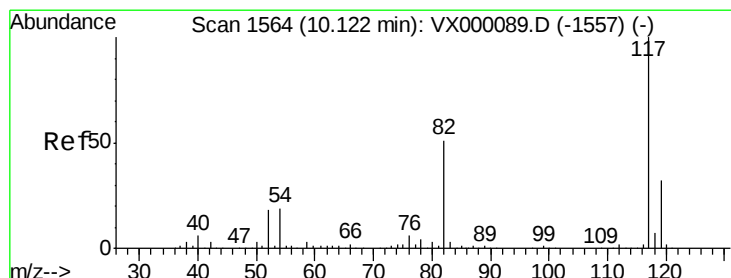
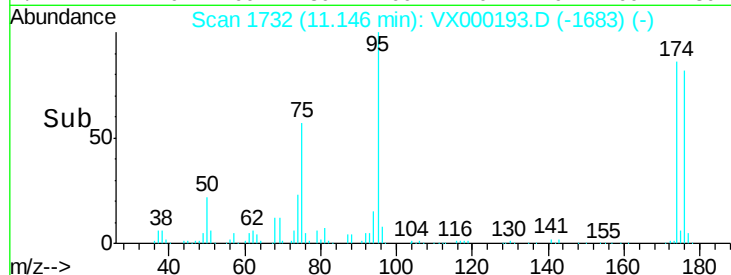


Abundance Ion 94.90 (94.60 to 95.60): VX000089.D (-1725) (-)

Ion 173.80 (173.50 to 174.50): VX000089.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX000089.D (-1725) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

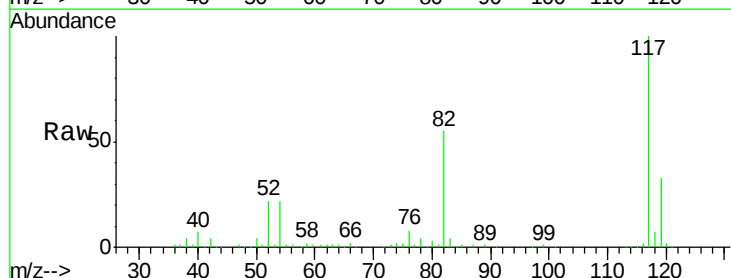
Tgt Ion: 117 Resp: 147630

Ion Ratio Lower Upper

117 100

82 54.6 41.0 61.6

119 32.6 25.5 38.3

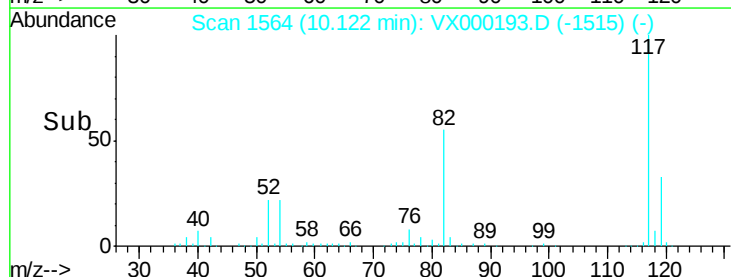


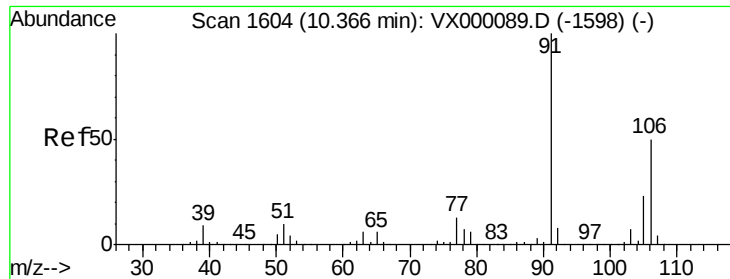
Abundance Ion 116.90 (116.60 to 117.60): VX000089.D (-1557) (-)

Ion 82.00 (81.70 to 82.70): VX000089.D (-1557) (-)

Ion 118.90 (118.60 to 119.60): VX000089.D (-1557) (-)

Time-->

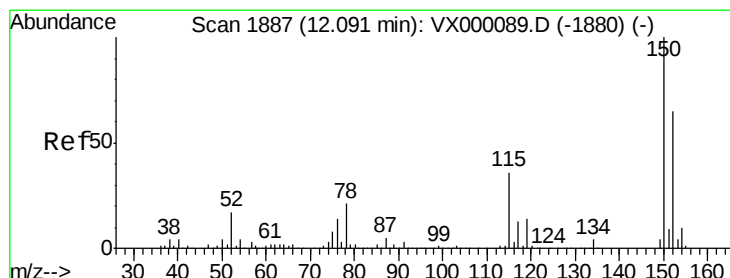
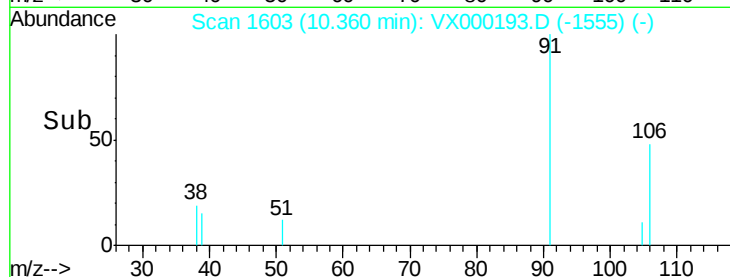
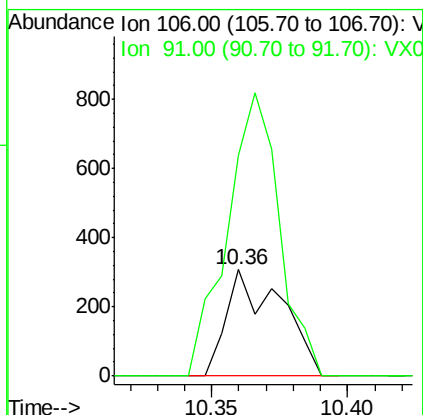
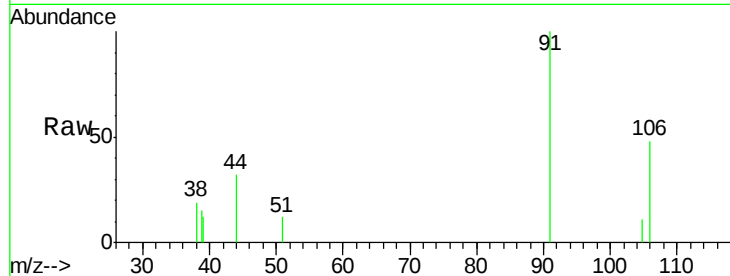




#68
m/p-Xvlenes
Concen: 0.21 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX000193.D
Acq: 02 Mar 2018 16:01

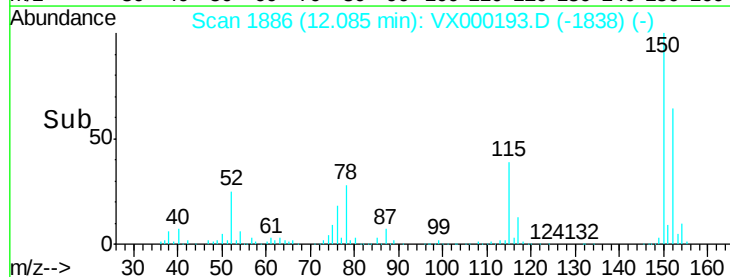
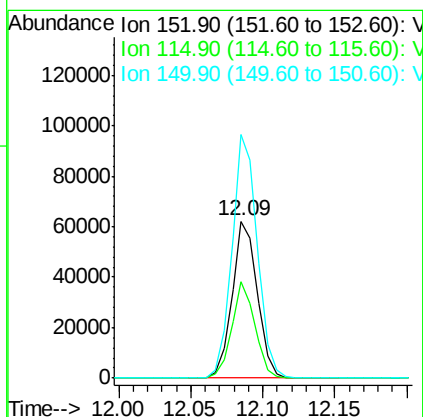
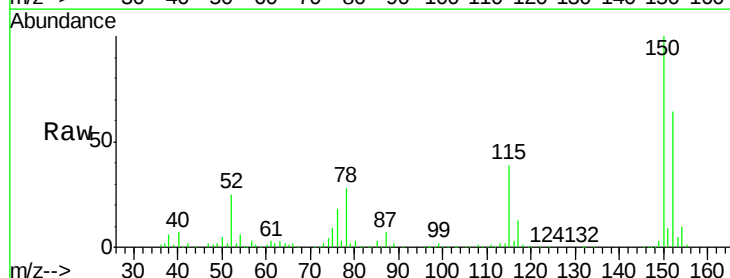
Instrument :
MSVOA_X
ClientSampled :

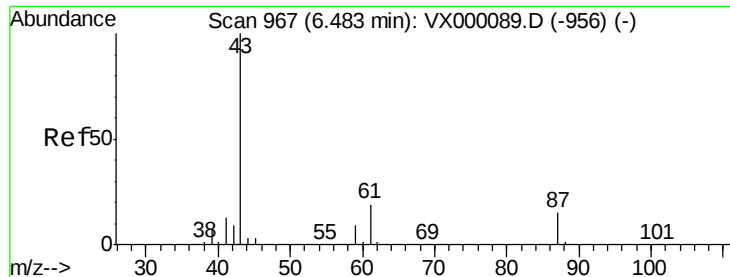
Tot Ion:106 Resp: 427
Ion Ratio Lower Upper
106 100
91 254.3 159.1 238.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.01 min
Lab File: VX000193.D
Acq: 02 Mar 2018 16:01

Tgt Ion:152 Resp: 76045
Ion Ratio Lower Upper
152 100
115 56.8 39.1 117.2
150 156.0 0.0 348.2





#74

N-amvl acetate

Concen: 0.42 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.01 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1016

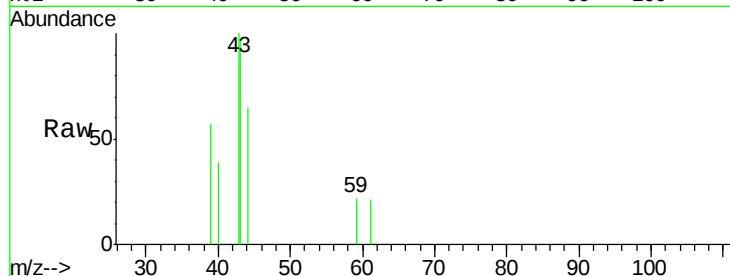
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

61 7.7 15.6 23.4#

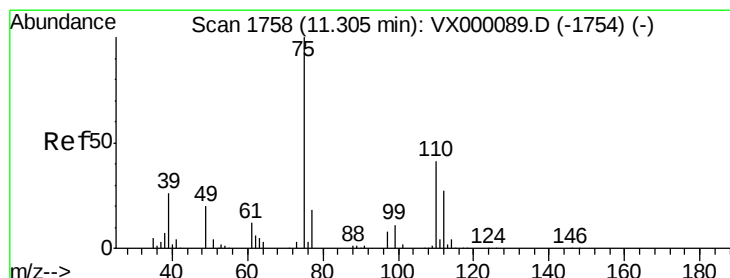
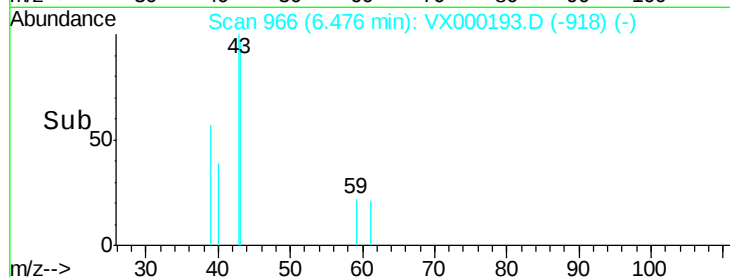
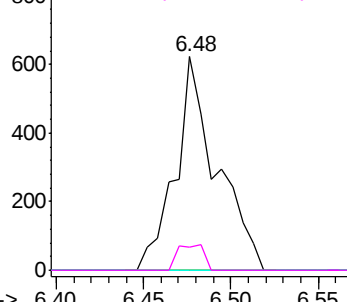


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.28 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000193.D

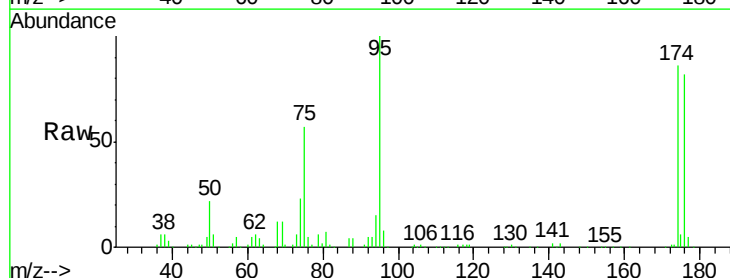
Acq: 02 Mar 2018 16:01

Tgt Ion: 75 Resp: 38249

Ion Ratio Lower Upper

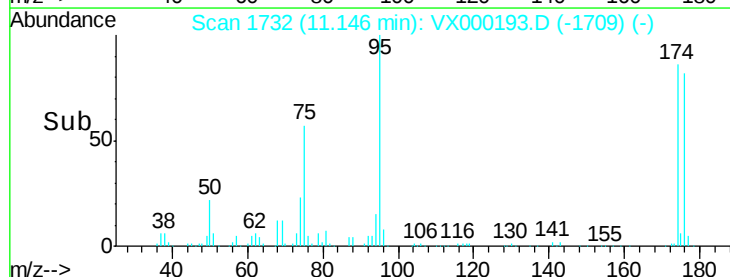
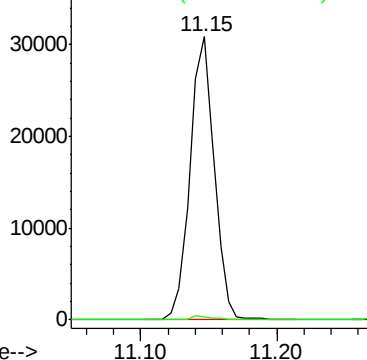
75 100

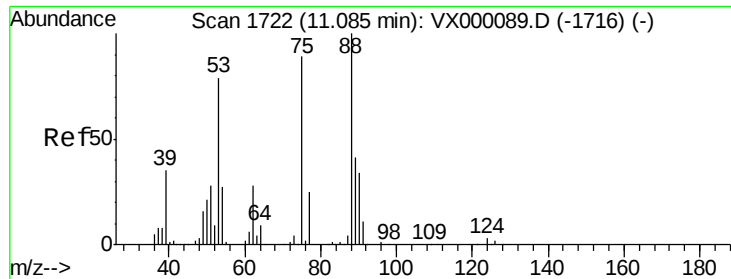
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.15 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

Instrument :

MSVOA_X

ClientSampleId :

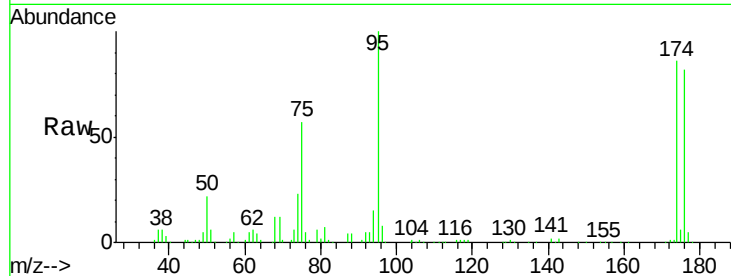
Tot Ion: 75 Resp: 38249

Ion Ratio Lower Upper

75 100

53 0.0 72.3 108.5#

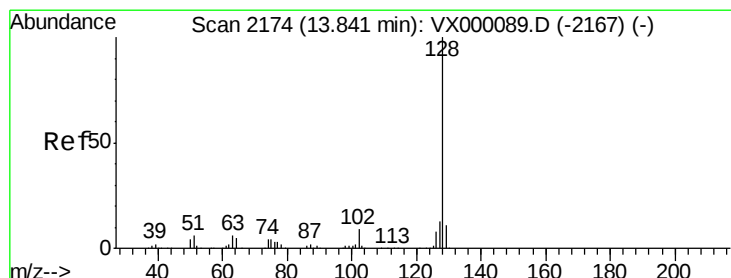
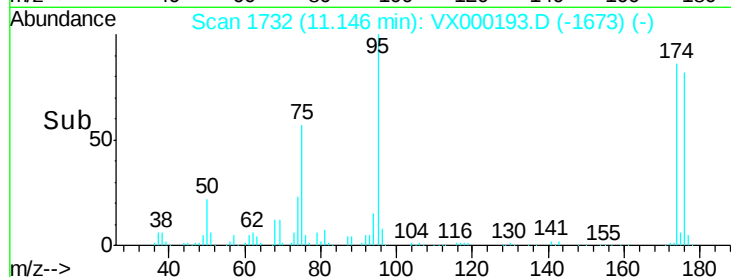
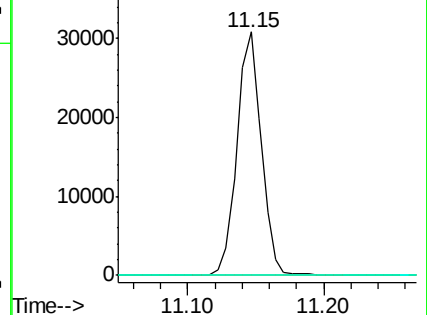
89 0.0 40.6 60.8#



Abundance Ion 74.90 (74.60 to 75.60): VX000089.D (-1716) (-)

Ion 53.00 (52.70 to 53.70): VX000089.D (-1716) (-)

Ion 88.90 (88.60 to 89.60): VX000089.D (-1716) (-)



#95

Naphthalene

Concen: 1.70 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000193.D

Acq: 02 Mar 2018 16:01

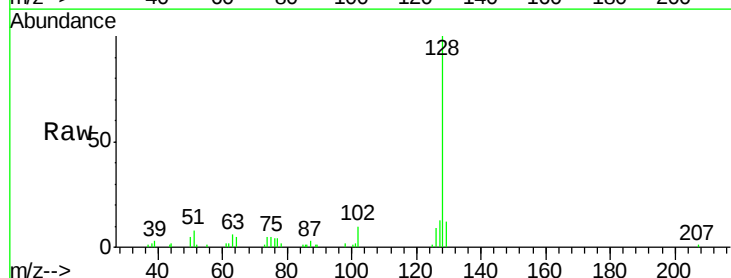
Tgt Ion: 128 Resp: 10636

Ion Ratio Lower Upper

128 100

127 12.4 10.4 15.6

129 11.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): VX000089.D (-2167) (-)

Ion 127.00 (126.70 to 127.70): VX000089.D (-2167) (-)

Ion 129.00 (128.70 to 129.70): VX000089.D (-2167) (-)

