

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092818\
 Data File : VX004844.D
 Acq On : 29 Sep 2018 02:19
 Operator : JC/MD
 Sample : J5134-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW504-4953

Quant Time: Sep 29 06:37:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

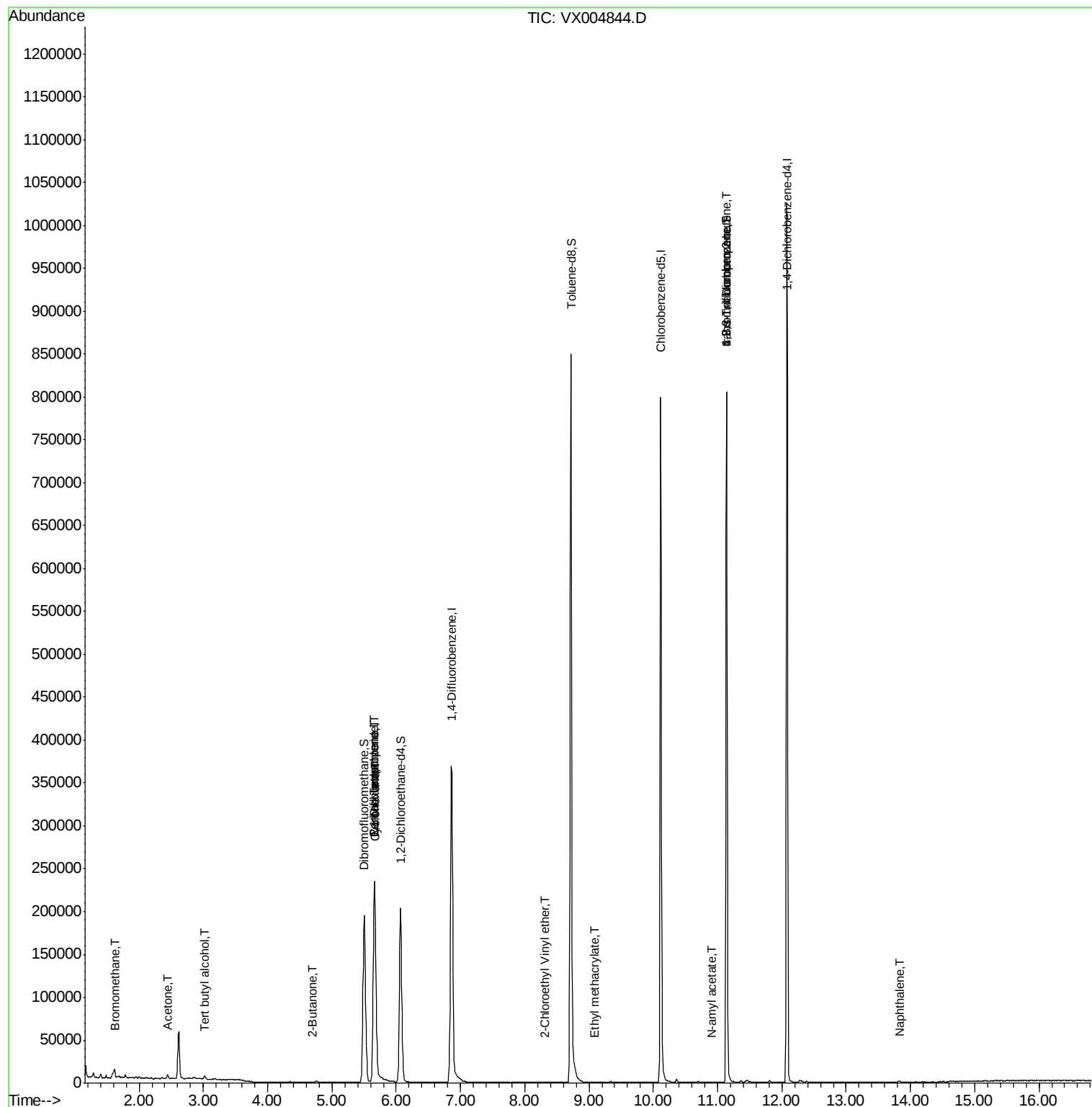
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	257175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	389234	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	378933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212031	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	192868	52.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.00%	
35) Dibromofluoromethane	5.50	113	170274	51.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.24%	
50) Toluene-d8	8.72	98	561890	51.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	11.14	95	203728	51.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.14%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	778	0.329	ug/l #	65
6) Chloroethane	1.76	64	607	Below Cal	#	88
11) Tert butyl alcohol	3.02	59	2143	2.086	ug/l #	83
16) Acetone	2.45	43	4816	2.245	ug/l	93
20) Methylene Chloride	2.86	84	492	Below Cal	#	67
25) 2-Butanone	4.70	43	644	0.204	ug/l #	47
31) Cyclohexane	5.67	56	4592	0.982	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16805	3.734	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22394	4.733	ug/l #	16
56) Ethyl methacrylate	9.09	69	20	2.866	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.30	63	37	14.254	ug/l #	45
74) N-amyl acetate	10.90	43	246	1.780	ug/l #	72
76) 1,2,3-Trichloropropane	11.14	75	102109	21.486	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	404	Below Cal		83
81) trans-1,4-Dichloro-2-buten	11.14	75	102109	58.258	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	1099	Below Cal		95
95) Naphthalene	13.83	128	726	0.760	ug/l #	84

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

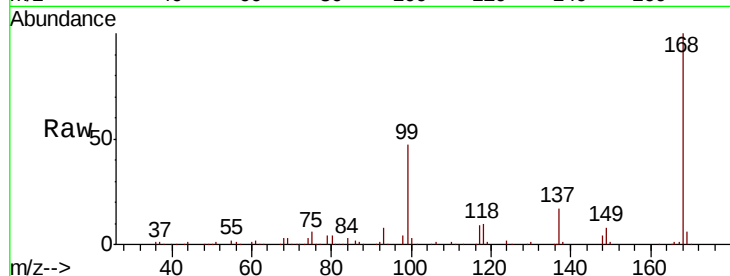
SA-TW504-4953

Tot Ion:168 Resp: 257175

Ion Ratio Lower Upper

168 100

99 46.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

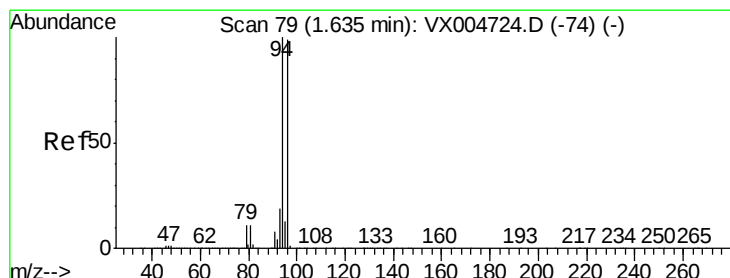
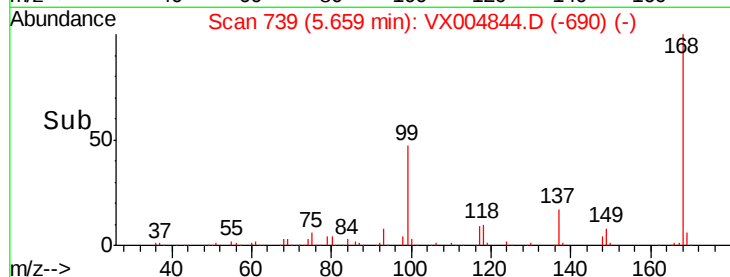
40000

20000

0

Time-->

5.60 5.80



#5

Bromomethane

Concen: 0.329 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX004844.D

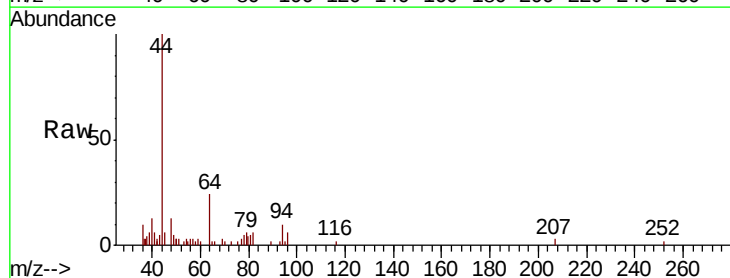
Acq: 29 Sep 2018 02:19

Tgt Ion: 94 Resp: 778

Ion Ratio Lower Upper

94 100

96 59.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

150

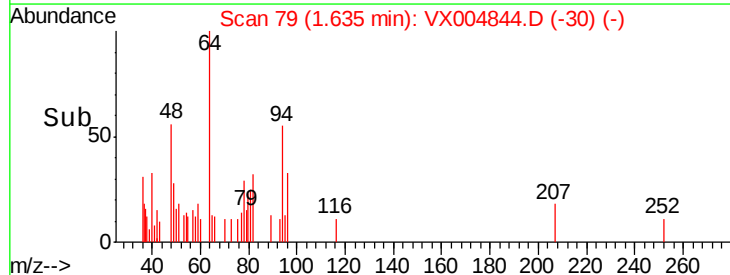
100

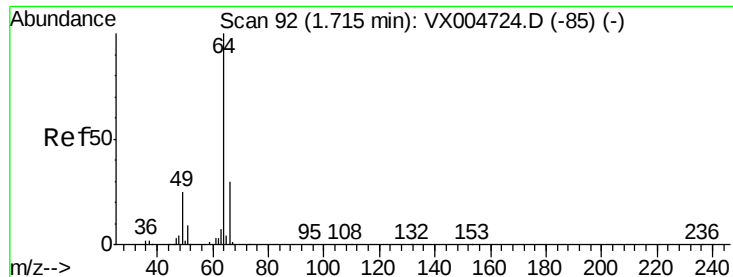
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 99

Delta R.T. 0.04 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

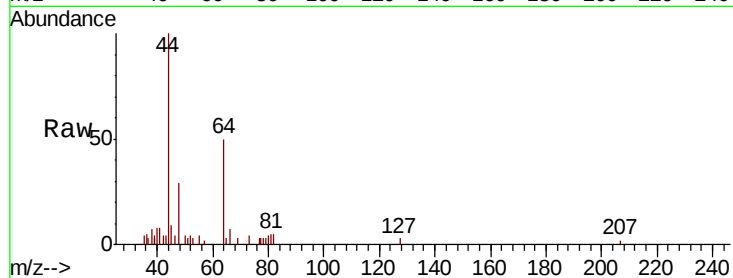
SA-TW504-4953

Tot Ion: 64 Resp: 607

Ion Ratio Lower Upper

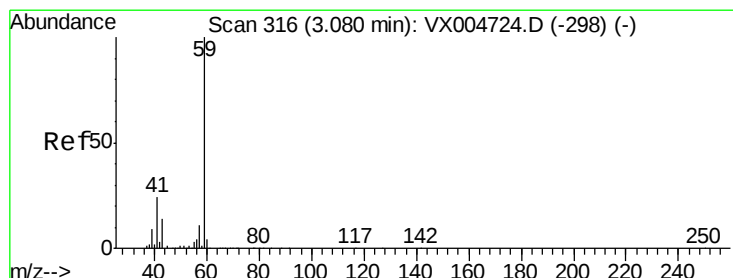
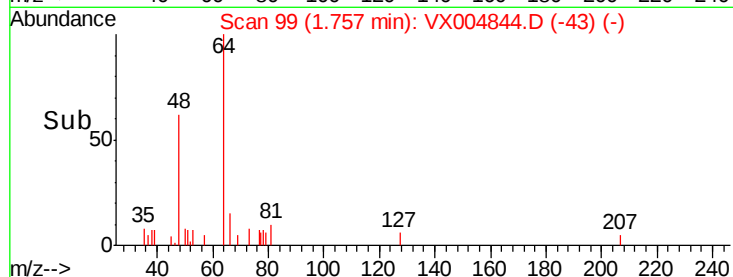
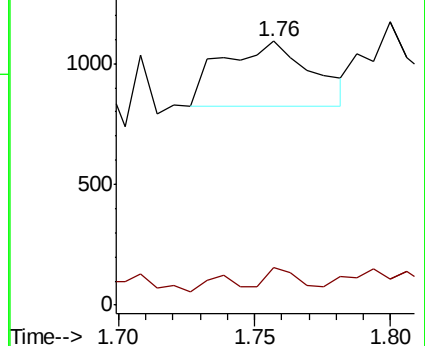
64 100

66 37.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.086 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004844.D

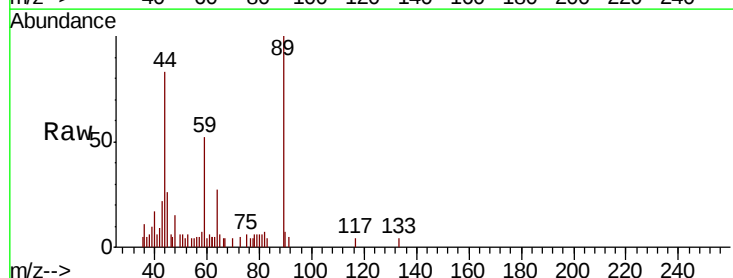
Acq: 29 Sep 2018 02:19

Tgt Ion: 59 Resp: 2143

Ion Ratio Lower Upper

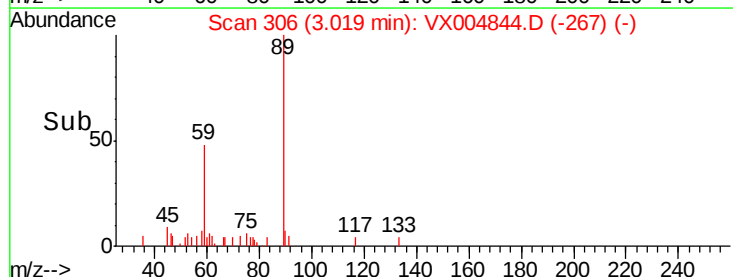
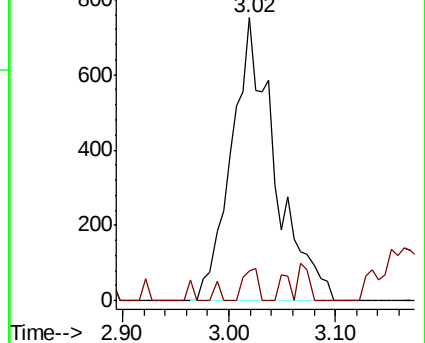
59 100

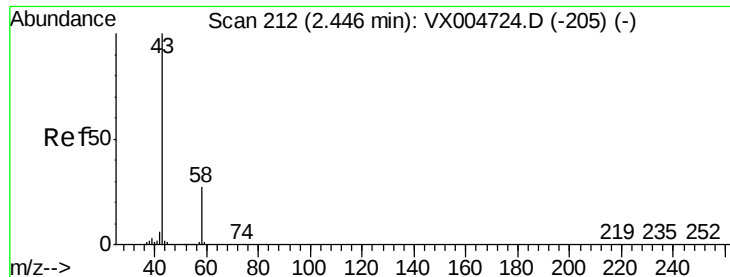
57 3.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 2.245 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

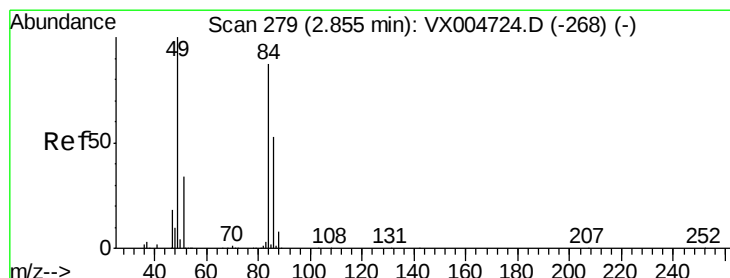
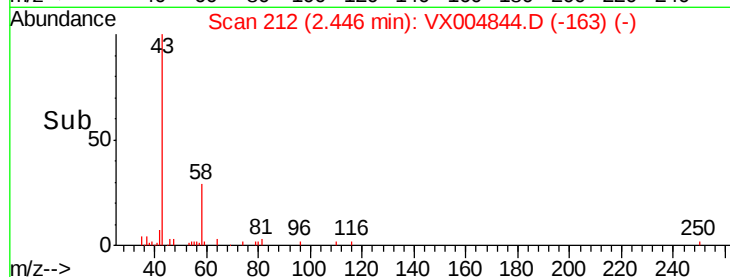
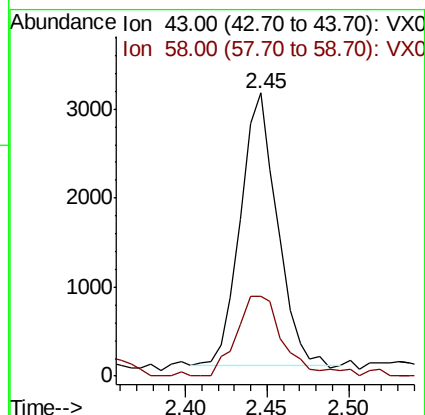
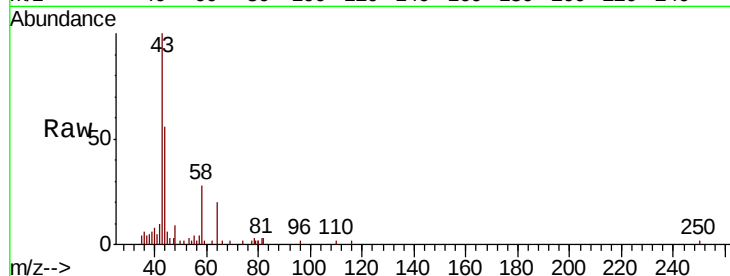
SA-TW504-4953

Tot Ion: 43 Resp: 4816

Ion Ratio Lower Upper

43 100

58 29.1 26.2 39.4



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Tgt Ion: 84 Resp: 492

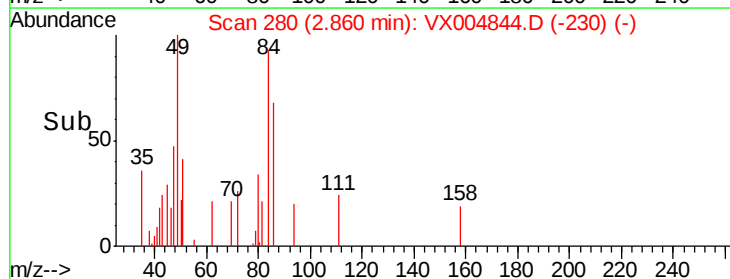
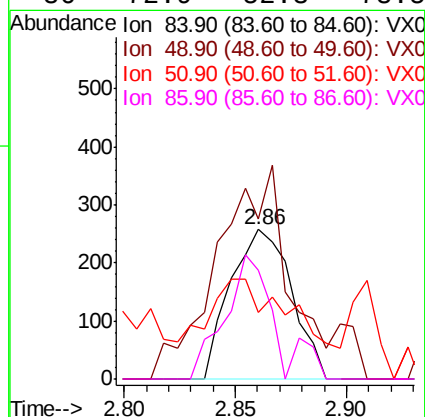
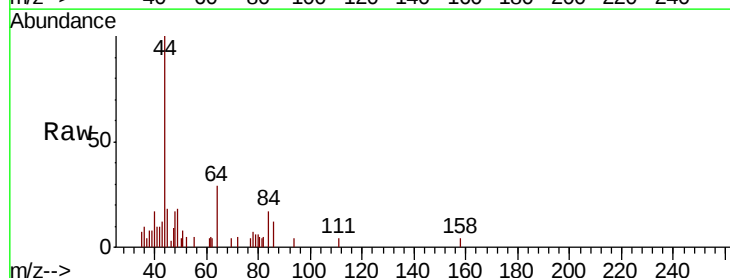
Ion Ratio Lower Upper

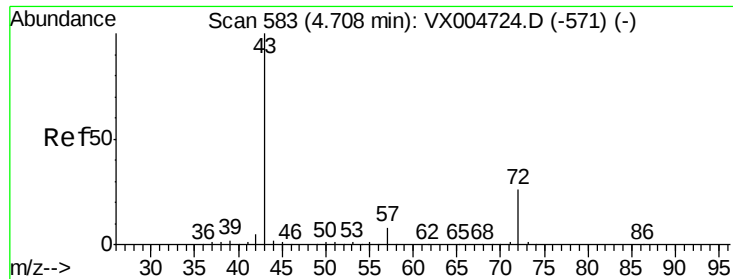
84 100

49 70.9 101.2 151.8#

51 23.6 29.5 44.3#

86 72.9 52.3 78.5





#25

2-Butanone

Concen: 0.204 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

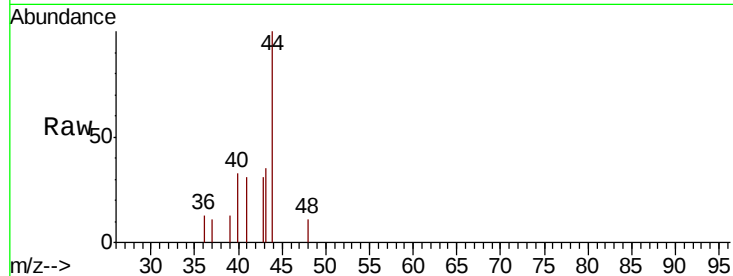
SA-TW504-4953

Tot Ion: 43 Resp: 644

Ion Ratio Lower Upper

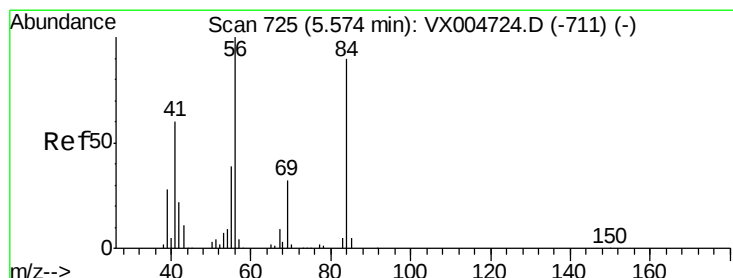
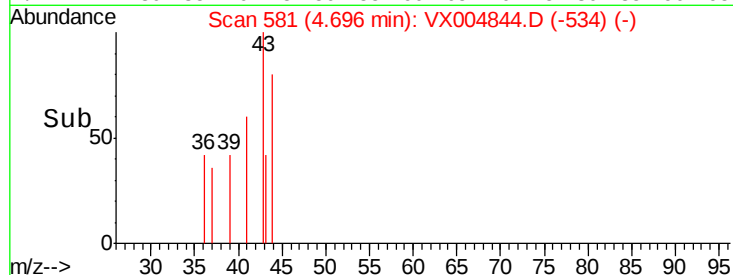
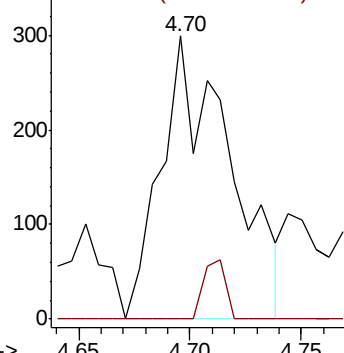
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 0.982 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

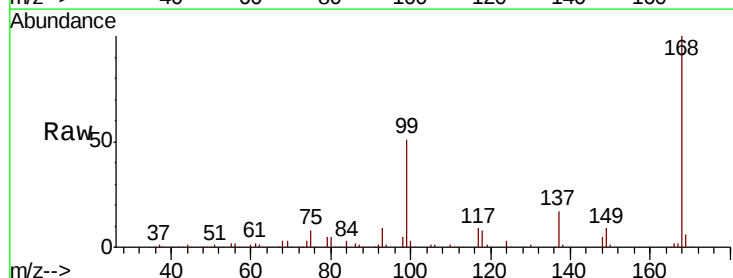
Tgt Ion: 56 Resp: 4592

Ion Ratio Lower Upper

56 100

69 156.8 25.4 38.2#

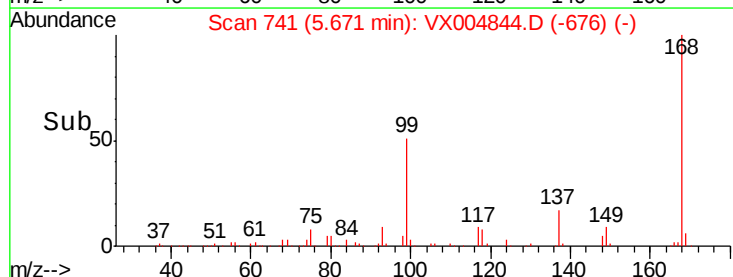
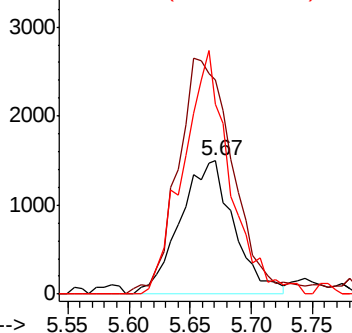
84 142.7 71.4 107.2#

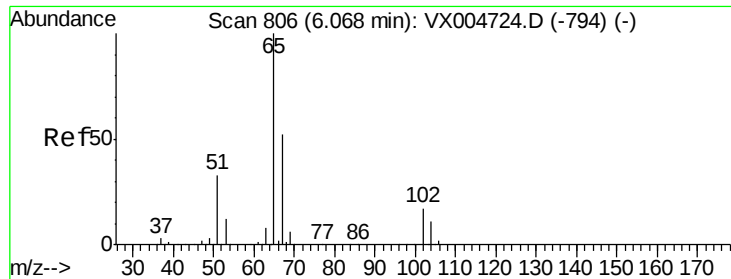


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

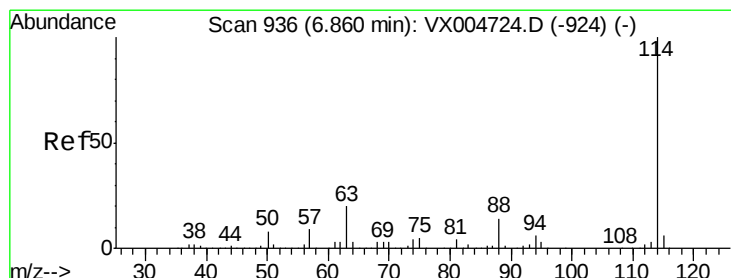
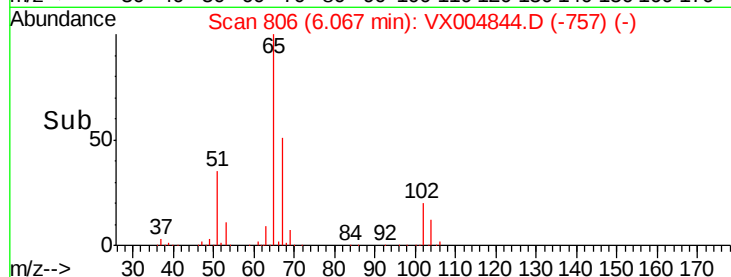
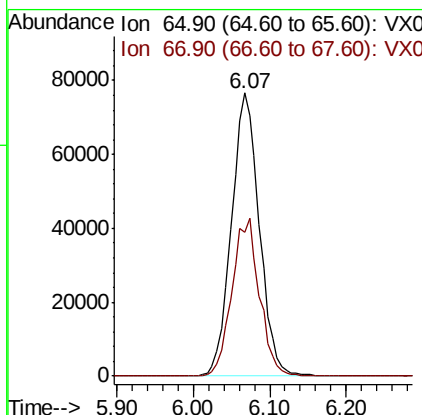
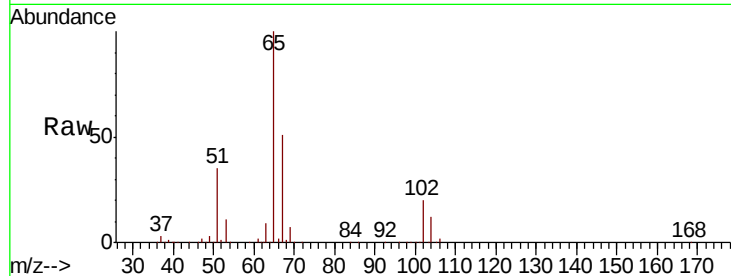




#33
 1,2-Dichloroethane-d4
 Concen: 52.499 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004844.D
 Acq: 29 Sep 2018 02:19

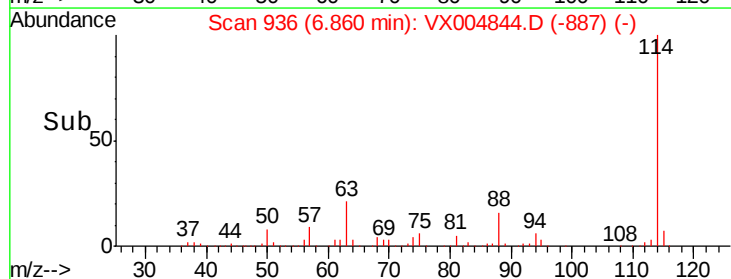
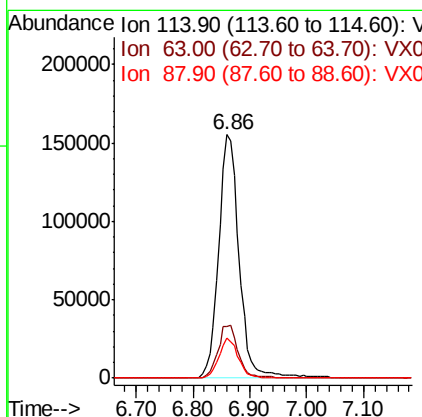
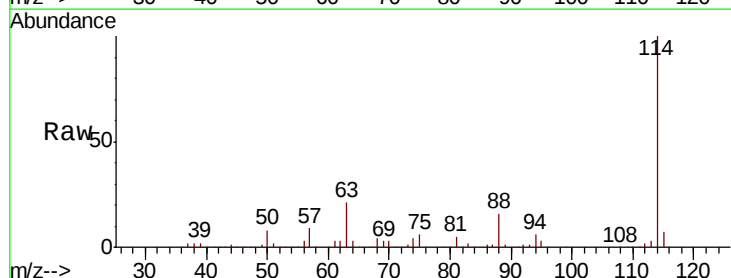
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW504-4953

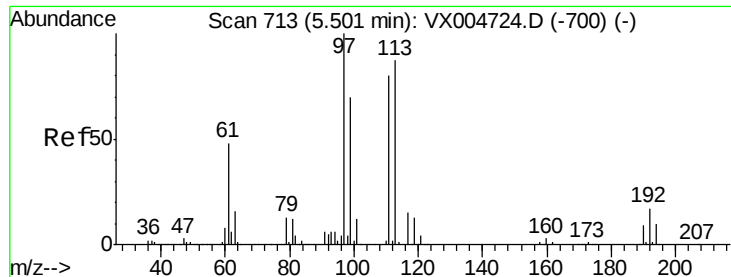
Tot Ion: 65 Resp: 192868
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004844.D
 Acq: 29 Sep 2018 02:19

Tgt Ion: 114 Resp: 389234
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.0
 88 16.4 0.0 30.4





#35

Dibromofluoromethane

Concen: 51.617 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

SA-TW504-4953

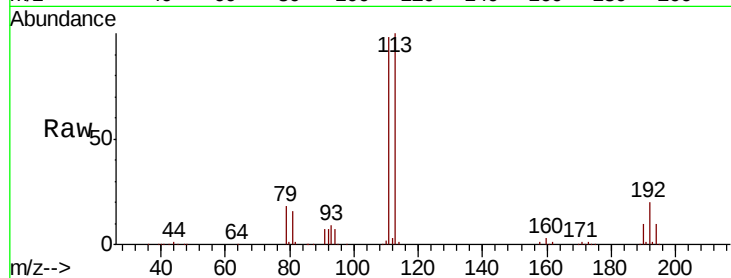
Tot Ion:113 Resp: 170274

Ion Ratio Lower Upper

113 100

111 96.5 82.4 123.6

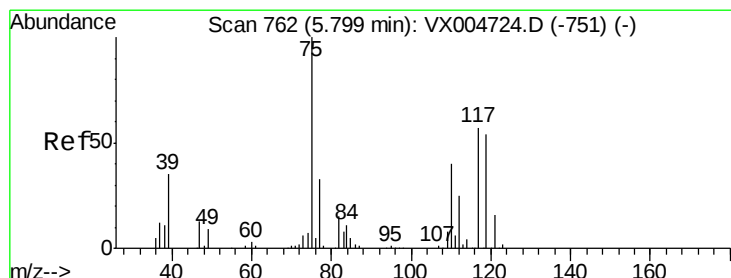
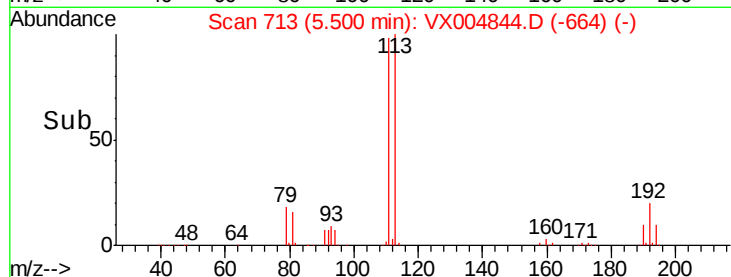
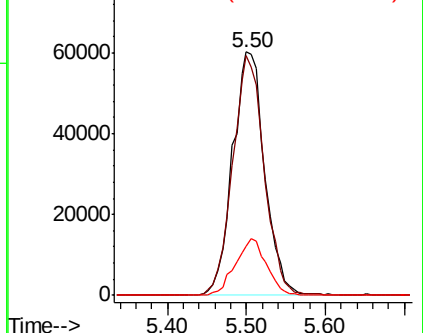
192 22.6 19.4 29.2



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: 3.734 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

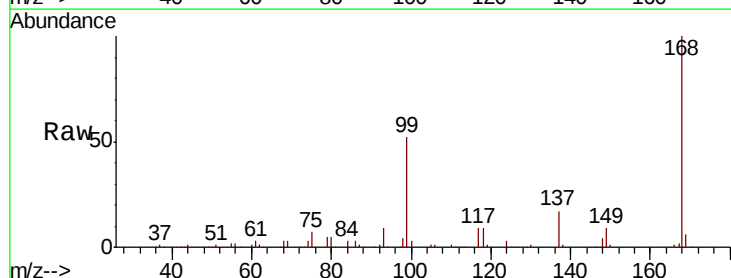
Tgt Ion: 75 Resp: 16805

Ion Ratio Lower Upper

75 100

110 10.1 18.0 54.0#

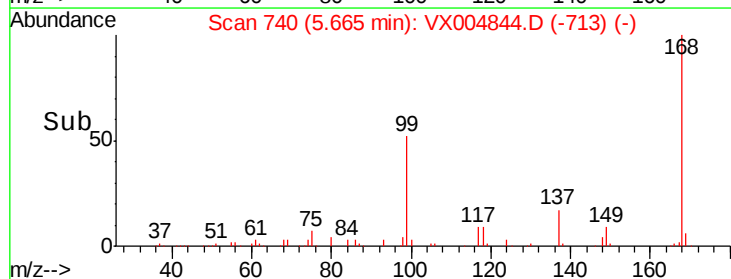
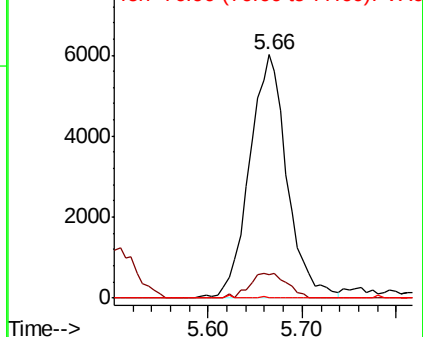
77 0.1 24.6 36.8#

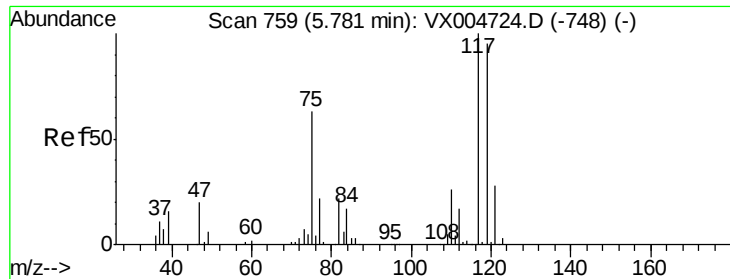


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.733 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

SA-TW504-4953

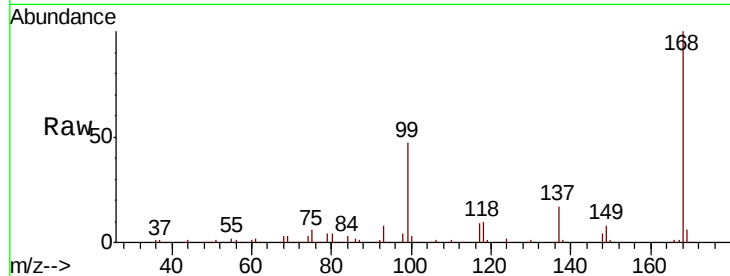
Tot Ion:117 Resp: 22394

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

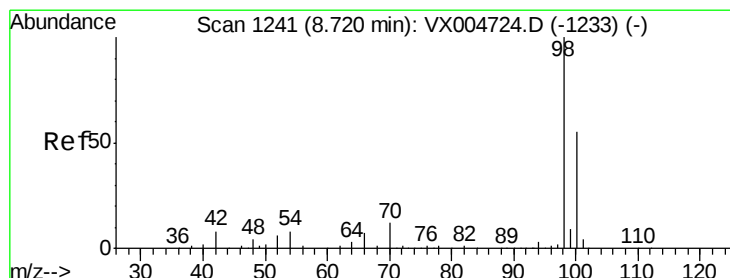
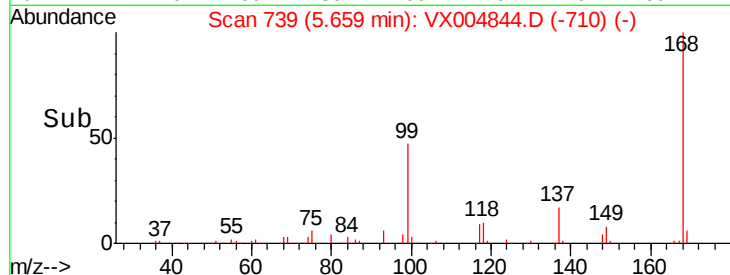
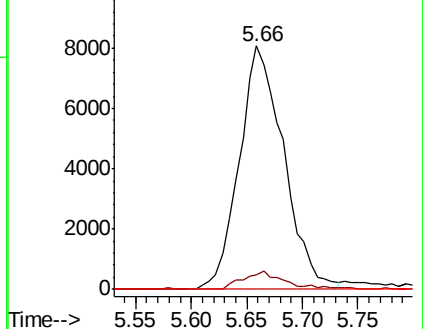
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 51.235 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004844.D

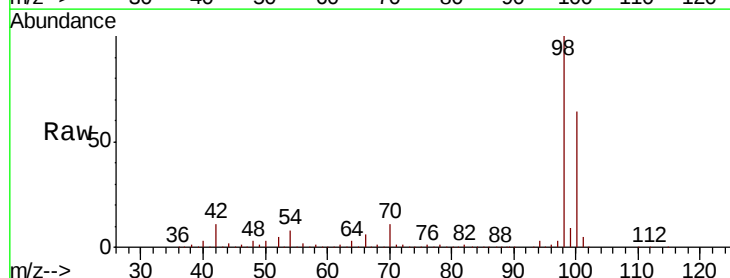
Acq: 29 Sep 2018 02:19

Tgt Ion: 98 Resp: 561890

Ion Ratio Lower Upper

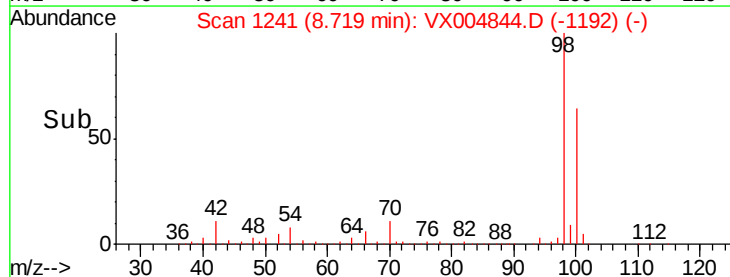
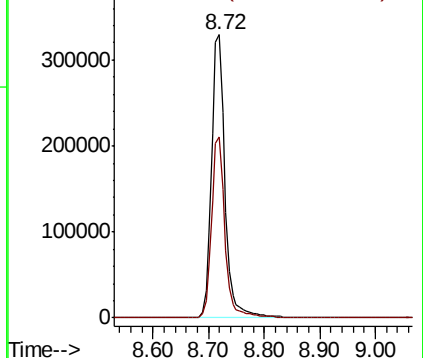
98 100

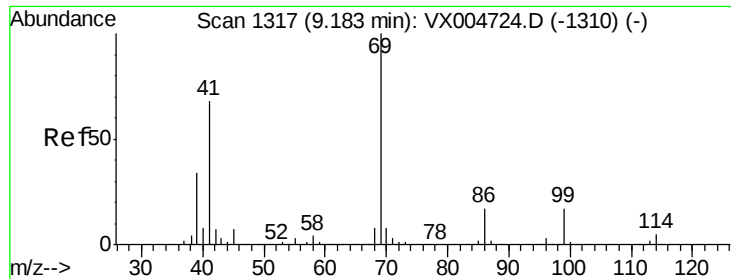
100 63.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.09 min Scan# 1302

Delta R.T. -0.09 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

SA-TW504-4953

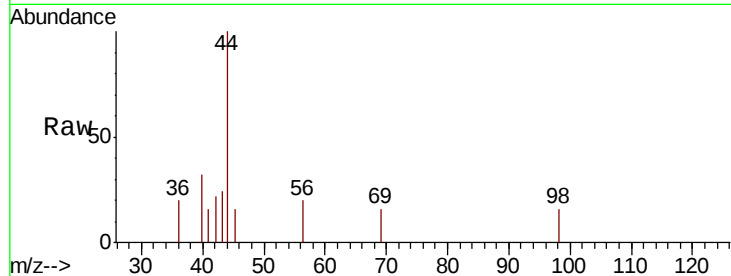
Tot Ion: 69 Resp: 20

Ion Ratio Lower Upper

69 100

41 565.0 51.0 76.4#

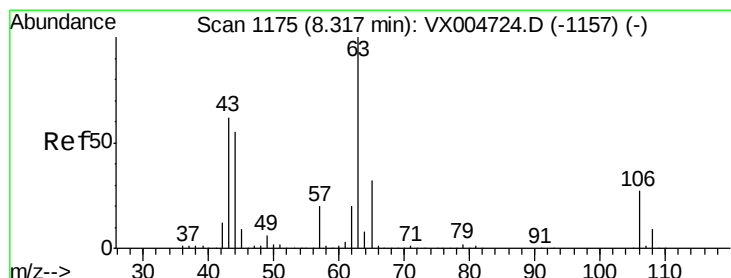
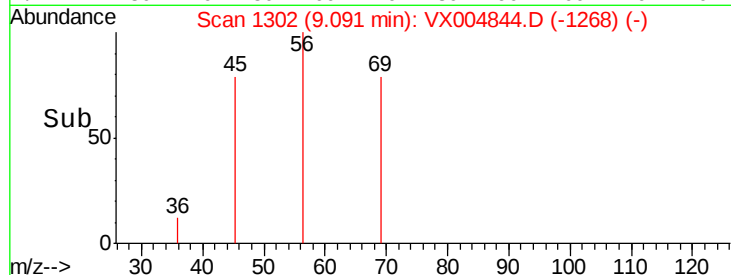
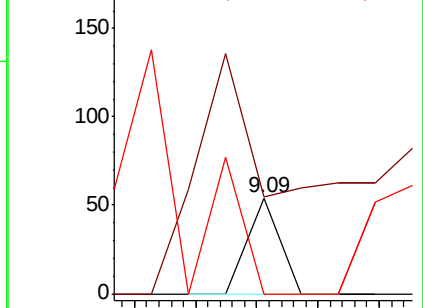
39 615.0 26.1 39.1#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.254 ug/l

RT: 8.30 min Scan# 1173

Delta R.T. -0.01 min

Lab File: VX004844.D

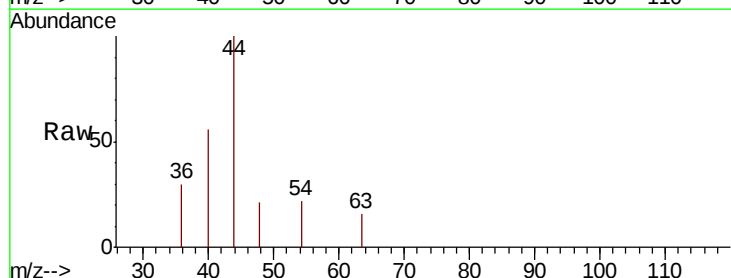
Acq: 29 Sep 2018 02:19

Tgt Ion: 63 Resp: 37

Ion Ratio Lower Upper

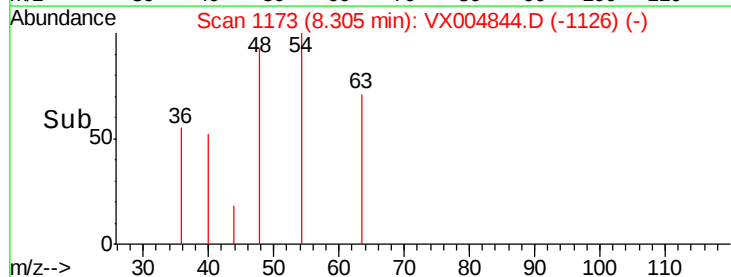
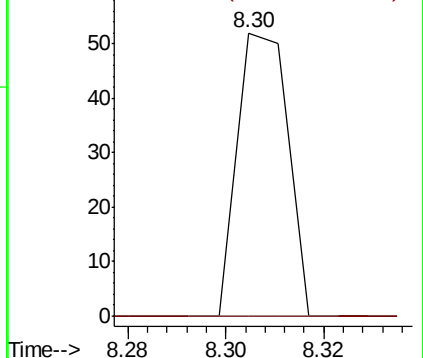
63 100

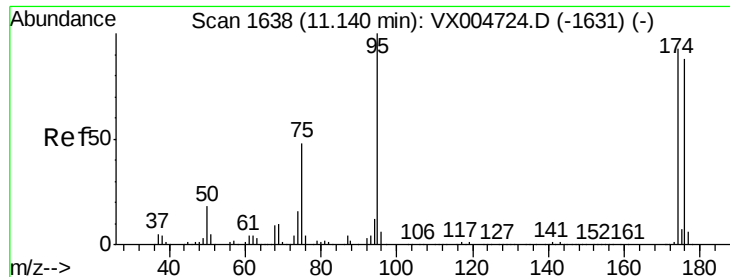
106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 51.565 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

SA-TW504-4953

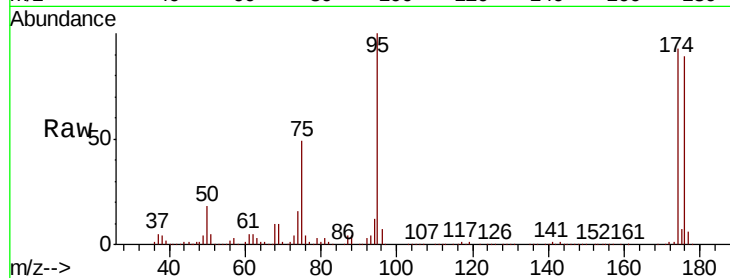
Tot Ion: 95 Resp: 203728

Ion Ratio Lower Upper

95 100

174 92.2 0.0 185.2

176 87.8 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004724.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004724.D (-1631) (-)

11.14

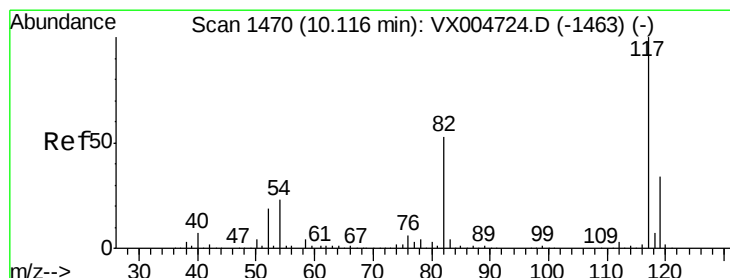
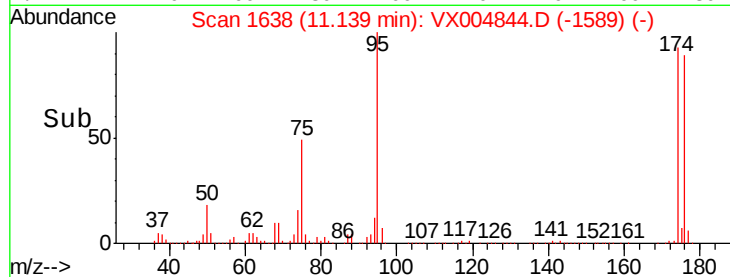
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

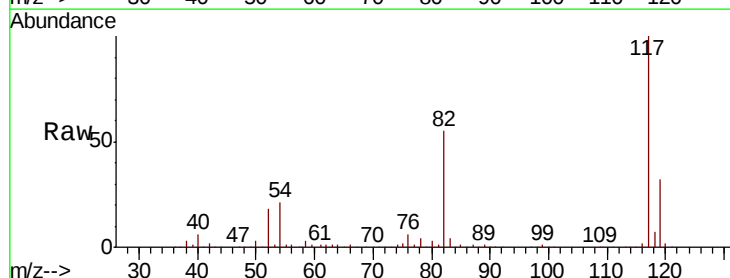
Tgt Ion: 117 Resp: 378933

Ion Ratio Lower Upper

117 100

82 54.6 47.8 71.6

119 32.1 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004724.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004724.D (-1463) (-)

10.12

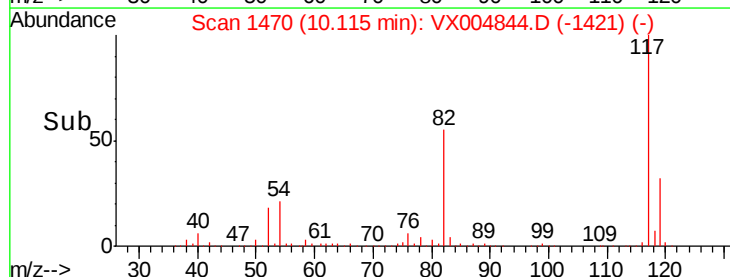
300000

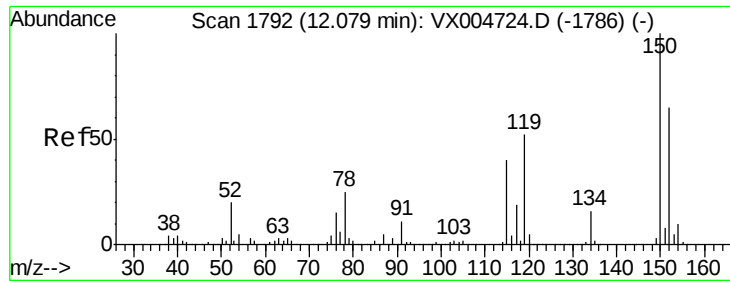
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

SA-TW504-4953

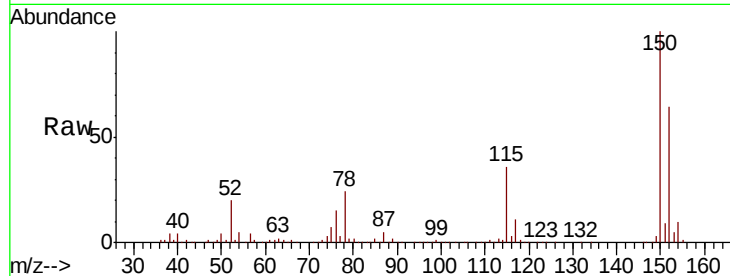
Tot Ion:152 Resp: 212031

Ion Ratio Lower Upper

152 100

115 56.3 39.0 117.0

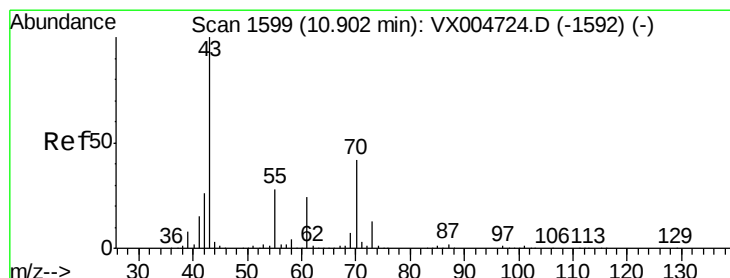
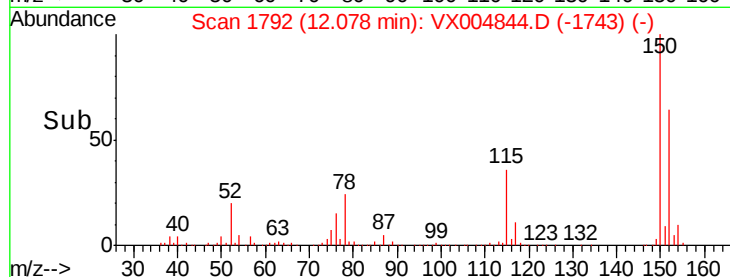
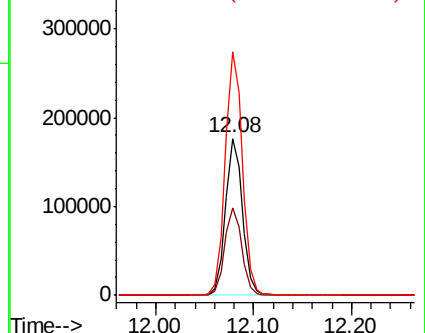
150 157.6 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.780 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Tgt Ion: 43 Resp: 246

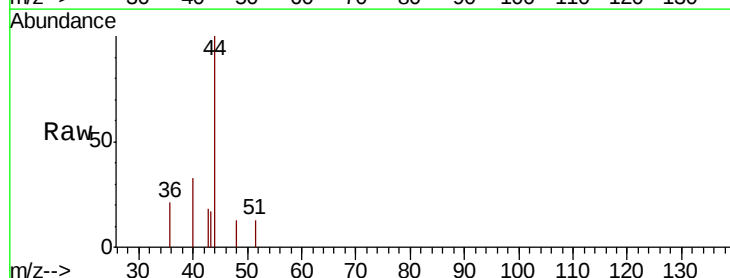
Ion Ratio Lower Upper

43 100

70 28.5 37.4 56.0#

55 24.0 21.8 32.8

61 0.0 20.6 30.8#

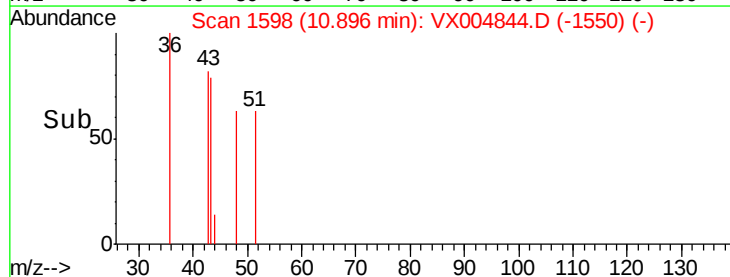
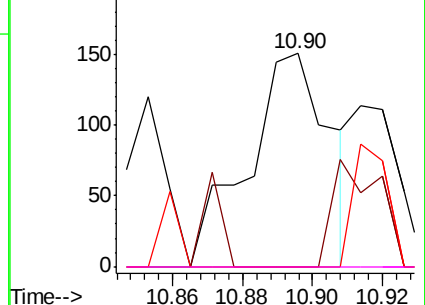


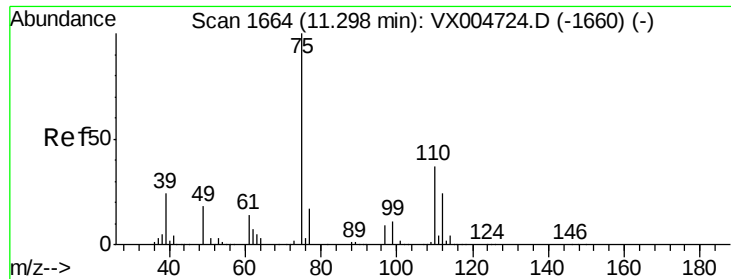
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.486 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

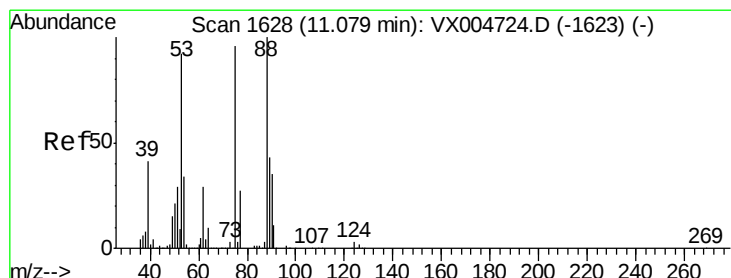
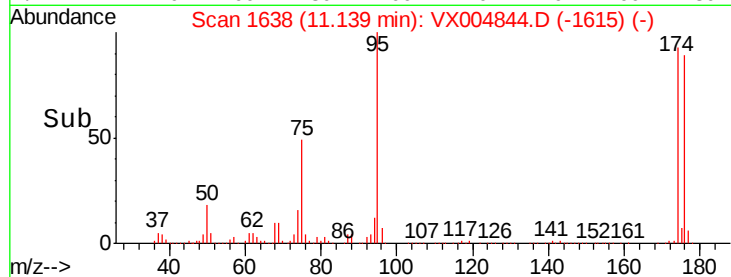
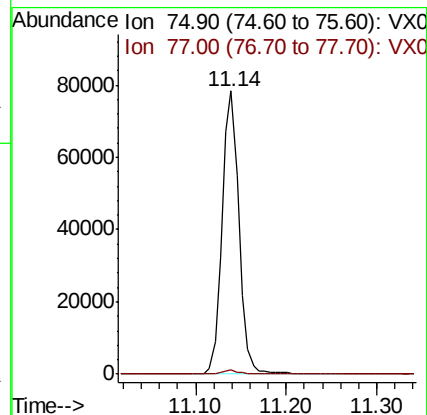
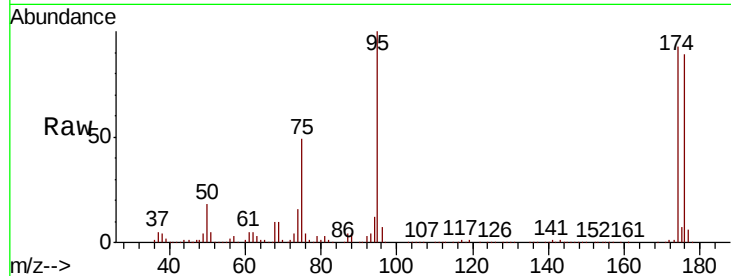
SA-TW504-4953

Tot Ion: 75 Resp: 102109

Ion Ratio Lower Upper

75 100

77 1.5 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.258 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

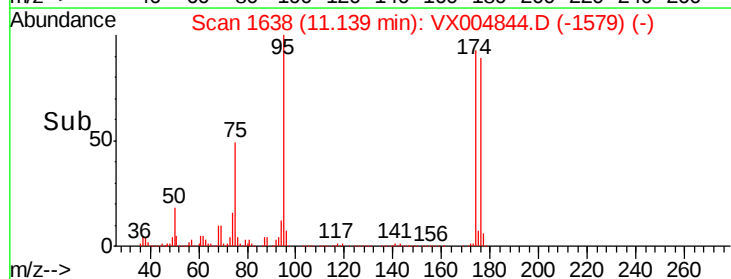
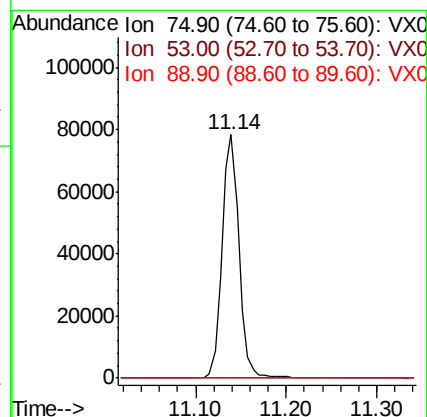
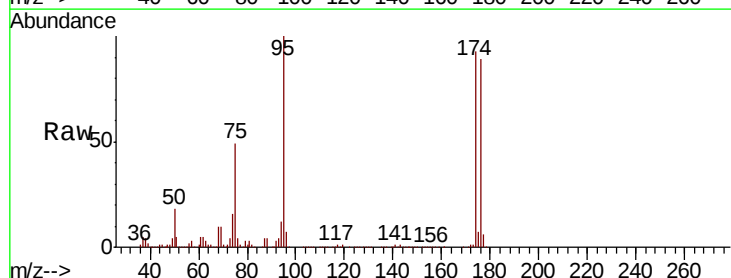
Tgt Ion: 75 Resp: 102109

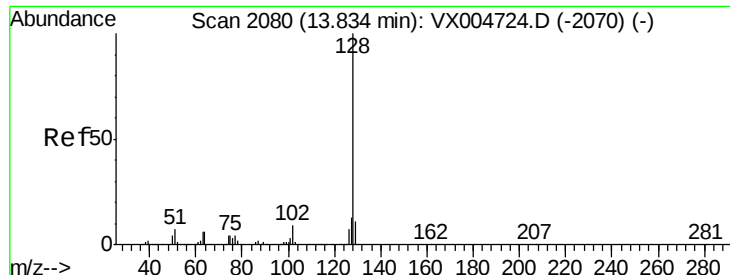
Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.760 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004844.D

Acq: 29 Sep 2018 02:19

Instrument :

MSVOA_X

ClientSampleId :

SA-TW504-4953

Tot Ion:128 Resp: 726

Ion Ratio Lower Upper

128 100

127 20.8 10.2 15.2#

129 7.0 8.6 12.8#

