

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092718\
 Data File : VX004777.D
 Acq On : 27 Sep 2018 16:37
 Operator : JC/MD
 Sample : J5048-06DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-80-SEP18DL

Quant Time: Sep 28 05:51:06 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	5.67	168	246430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	396704	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	381667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210594	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	185170	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
35) Dibromofluoromethane	5.50	113	156027	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
50) Toluene-d8	8.72	98	573396	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	11.14	95	202212	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	

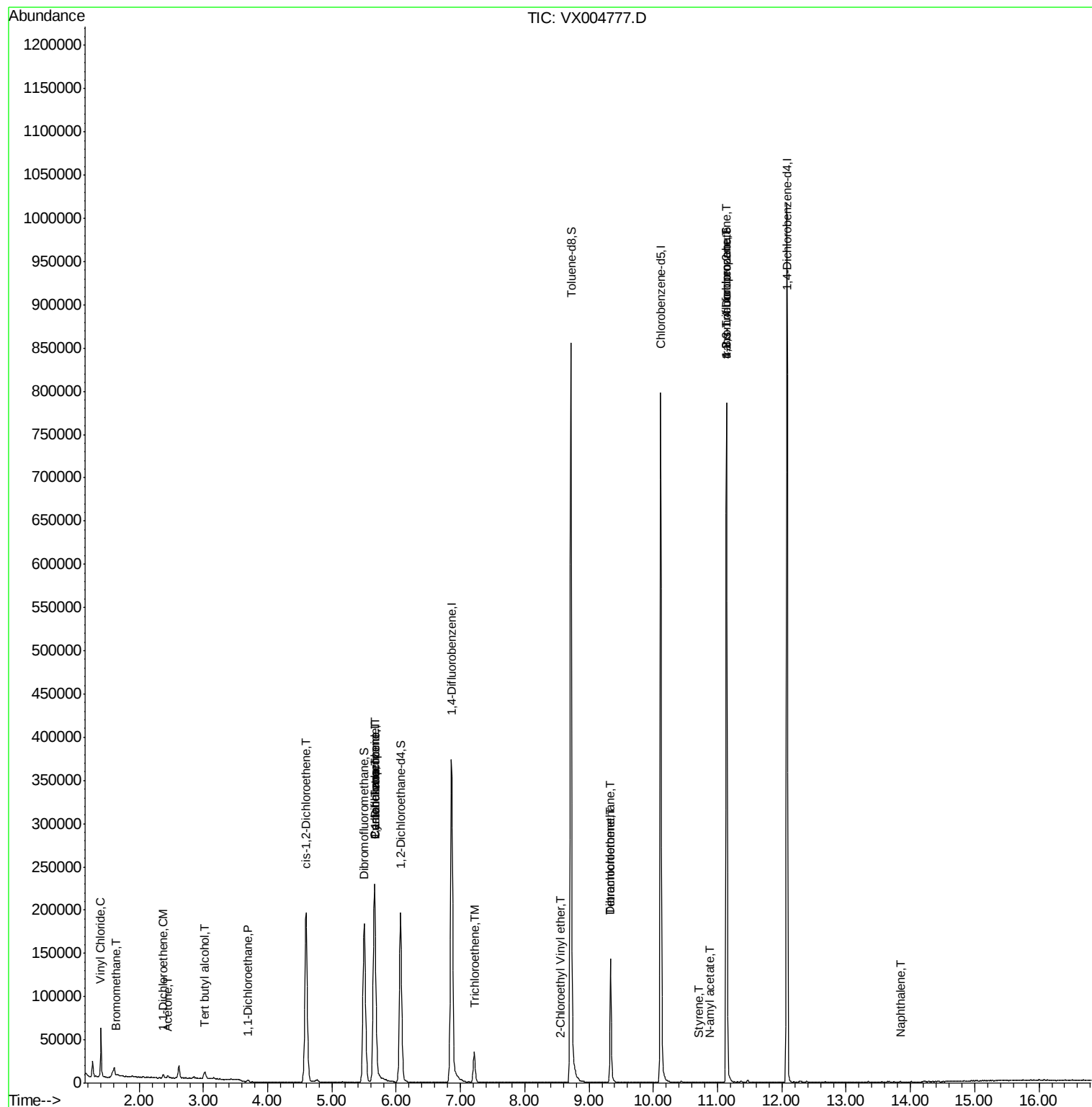
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	34605	9.051	ug/l	99
5) Bromomethane	1.64	94	547	0.241	ug/l	84
6) Chloroethane	1.60	64	4527	Below Cal	#	48
11) Tert butyl alcohol	3.02	59	5431	5.518	ug/l #	82
12) 1,1-Dichloroethene	2.37	96	1421	0.532	ug/l #	79
16) Acetone	2.45	43	2248	1.094	ug/l #	88
20) Methylene Chloride	2.86	84	833	Below Cal	#	71
24) 1,1-Dichloroethane	3.70	63	1785	0.305	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	126504	38.742	ug/l	93
31) Cyclohexane	5.66	56	4383	0.979	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16722	3.645	ug/l #	50
38) Carbon Tetrachloride	5.66	117	21062	4.368	ug/l #	16
44) Trichloroethene	7.21	130	14088	3.990	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.55	63	44	14.256	ug/l #	45
60) Dibromochloromethane	9.34	129	27163	7.858	ug/l #	11
64) Tetrachloroethene	9.34	164	30867	8.217	ug/l	97
70) Styrene	10.72	104	45	2.145	ug/l #	56
74) N-amyl acetate	10.87	43	67	1.757	ug/l #	27
76) 1,2,3-Trichloropropane	11.14	75	100525	21.297	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	88	Below Cal	#	27
81) trans-1,4-Dichloro-2-buten	11.14	75	100525	57.763	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	217	Below Cal	#	30
95) Naphthalene	13.83	128	496	0.747	ug/l #	84

(#) = 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: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

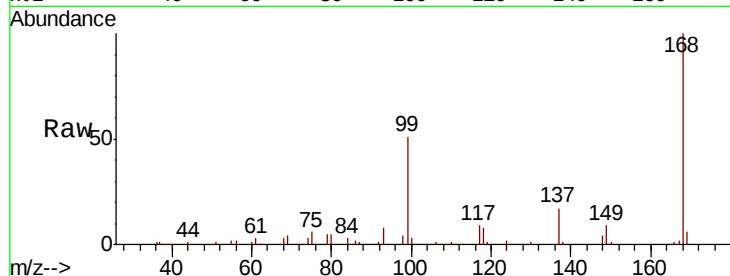
MW-80-SEP18DL

Tot Ion:168 Resp: 246430

Ion Ratio Lower Upper

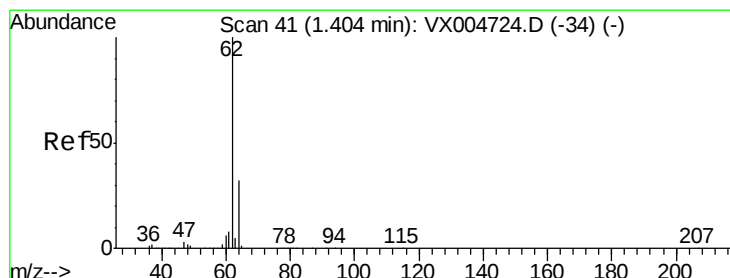
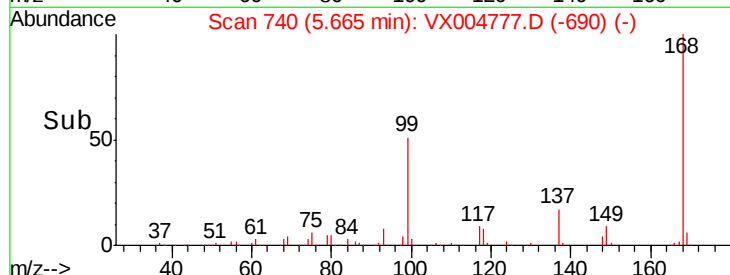
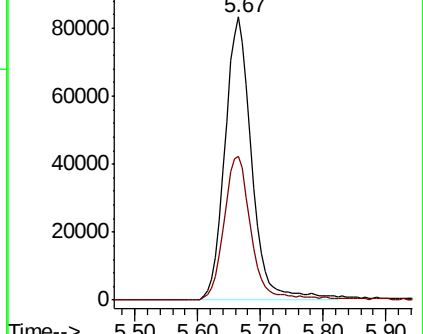
168 100

99 50.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 9.051 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX004777.D

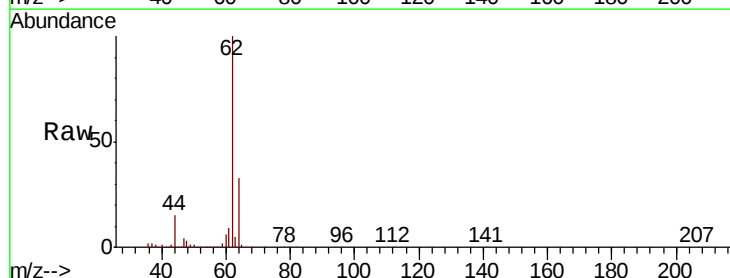
Acq: 27 Sep 2018 16:37

Tgt Ion: 62 Resp: 34605

Ion Ratio Lower Upper

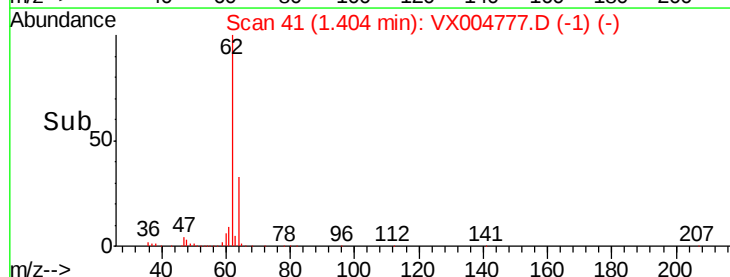
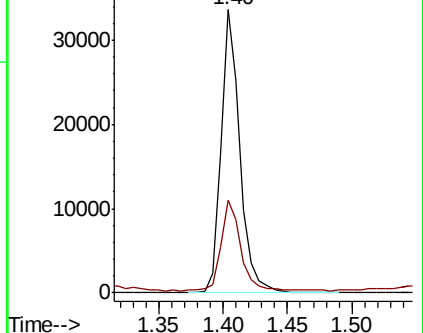
62 100

64 31.9 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.241 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

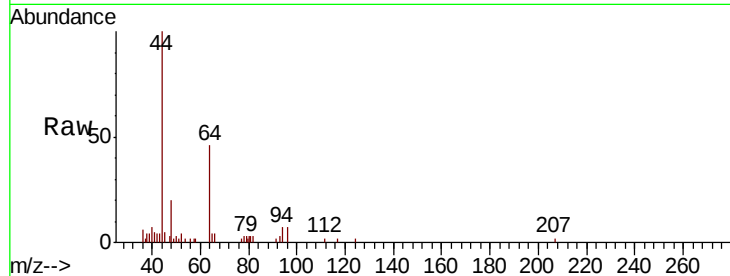
MW-80-SEP18DL

Tot Ion: 94 Resp: 547

Ion Ratio Lower Upper

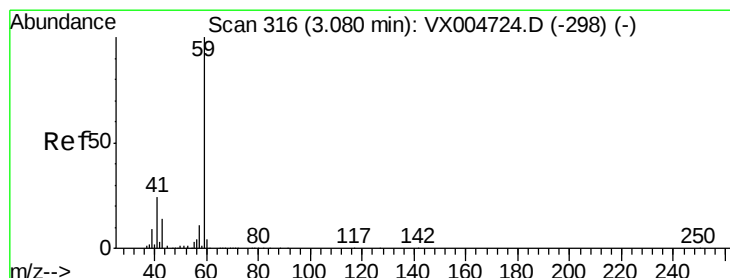
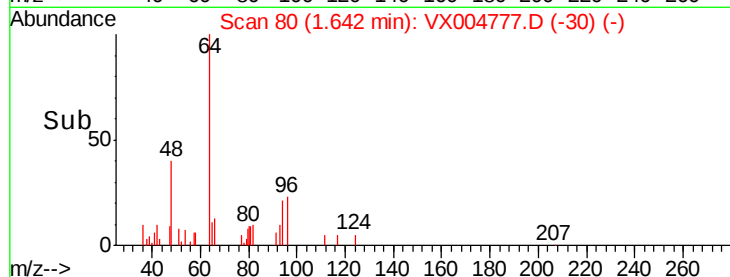
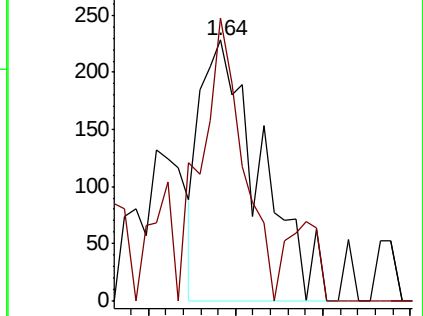
94 100

96 108.8 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 5.518 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004777.D

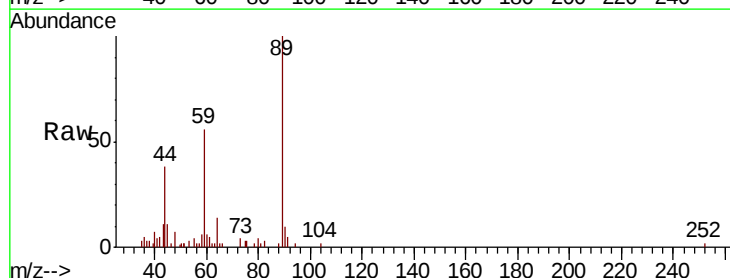
Acq: 27 Sep 2018 16:37

Tgt Ion: 59 Resp: 5431

Ion Ratio Lower Upper

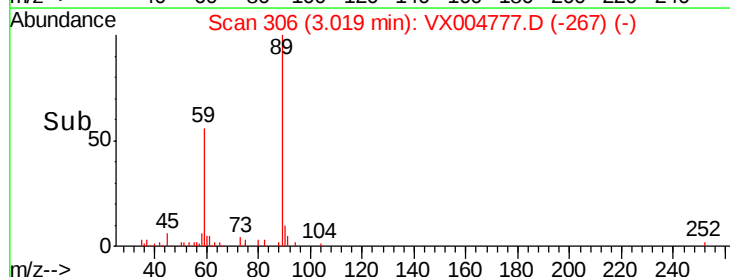
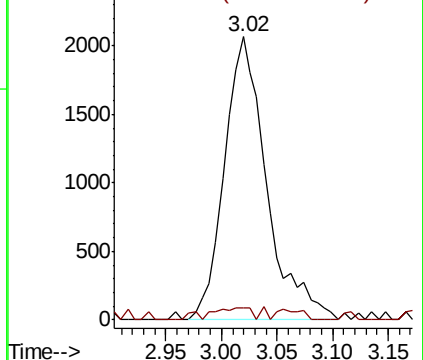
59 100

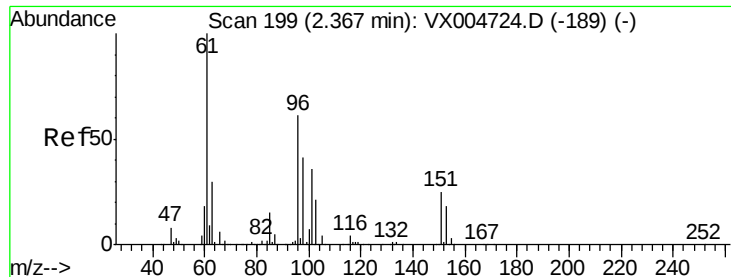
57 3.6 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.532 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

MW-80-SEP18DL

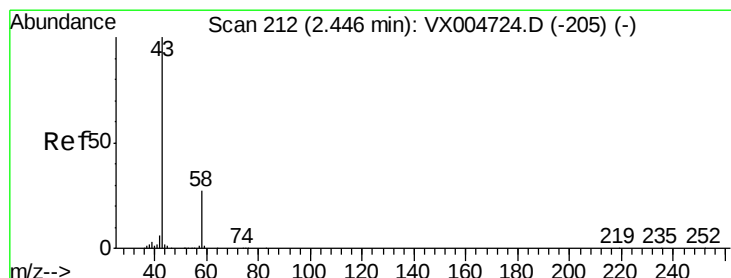
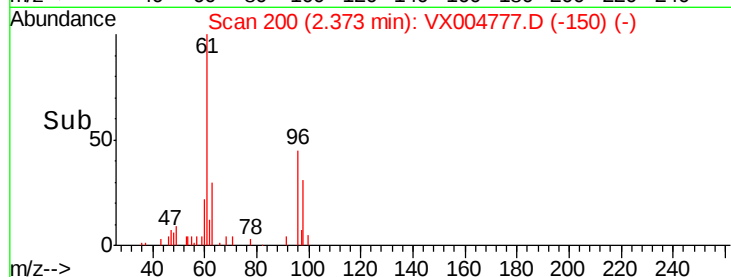
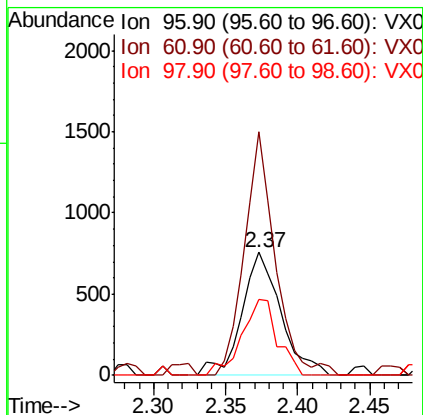
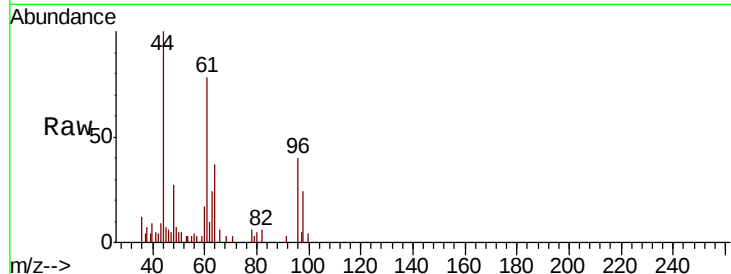
Tot Ion: 96 Resp: 1421

Ion Ratio Lower Upper

96 100

61 198.3 128.8 193.2#

98 61.6 52.2 78.2



#16

Acetone

Concen: 1.094 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004777.D

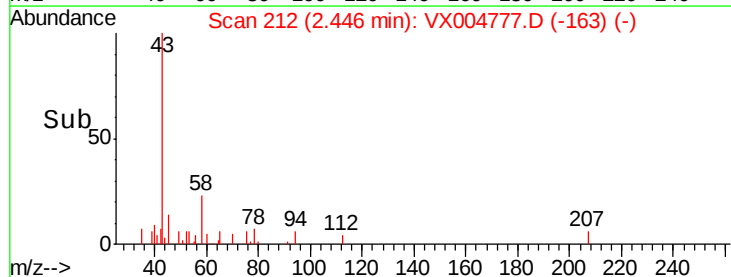
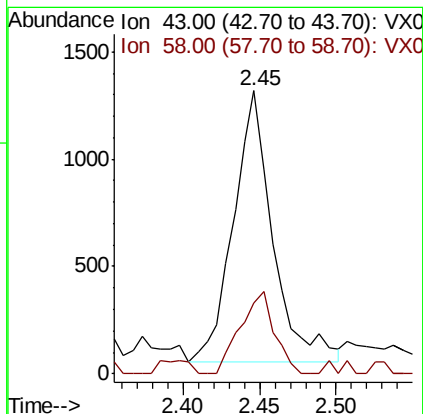
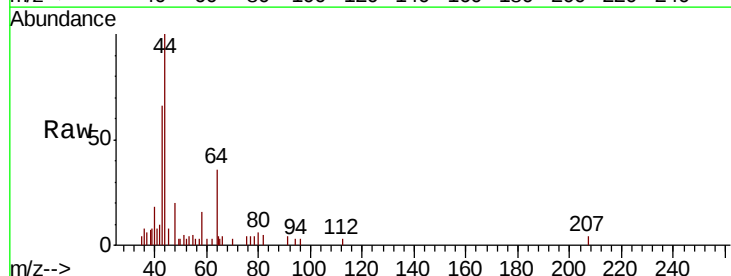
Acq: 27 Sep 2018 16:37

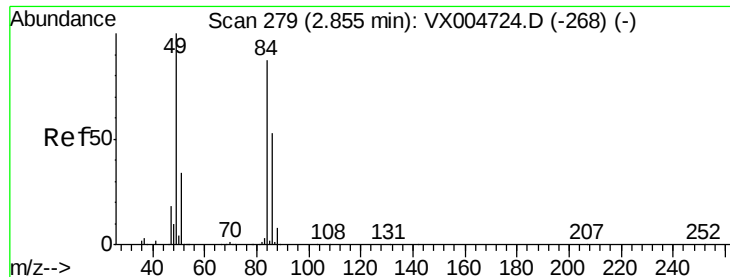
Tgt Ion: 43 Resp: 2248

Ion Ratio Lower Upper

43 100

58 26.0 26.2 39.4#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

MW-80-SEP18DL

Tot Ion: 84 Resp: 833

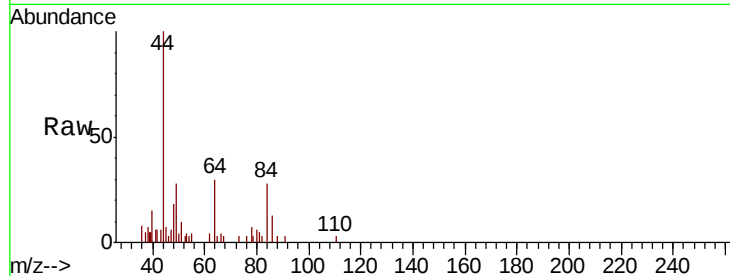
Ion Ratio Lower Upper

84 100

49 87.7 101.2 151.8#

51 23.7 29.5 44.3#

86 46.9 52.3 78.5#

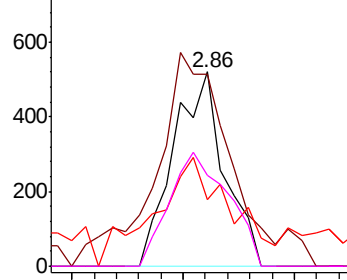


Abundance Ion 83.90 (83.60 to 84.60): VX0

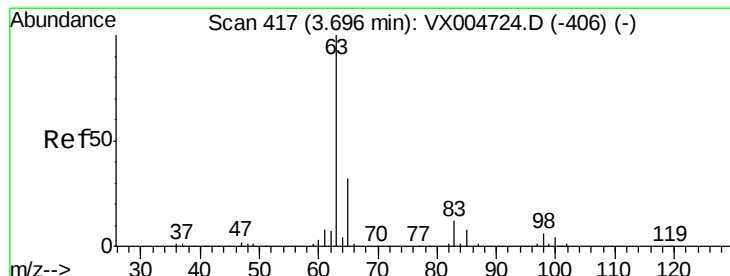
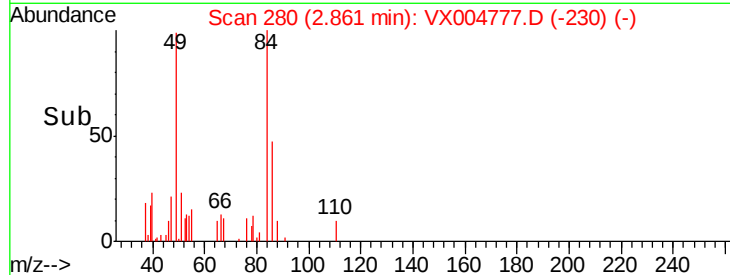
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->



#24

1,1-Dichloroethane

Concen: 0.305 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

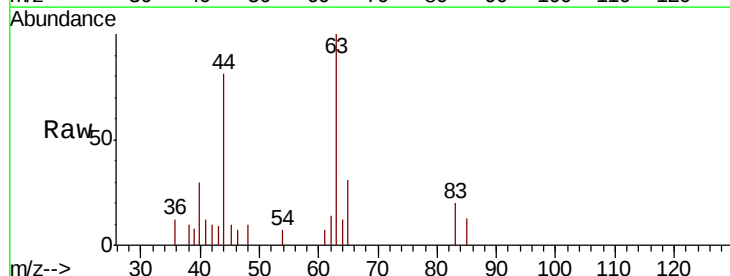
Tgt Ion: 63 Resp: 1785

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

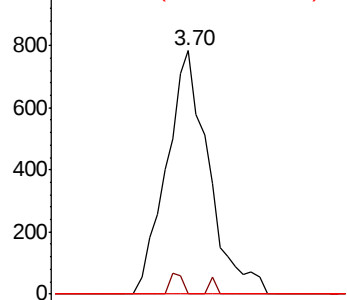
100 0.0 2.4 7.1#



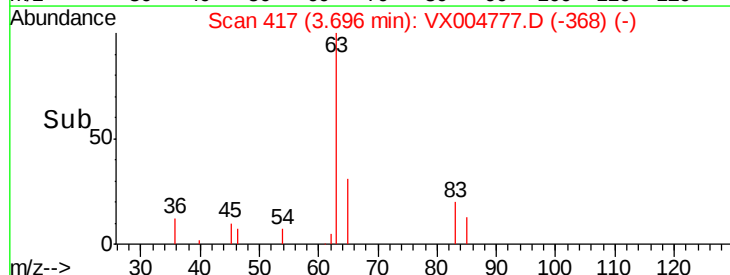
Abundance Ion 62.90 (62.60 to 63.60): VX0

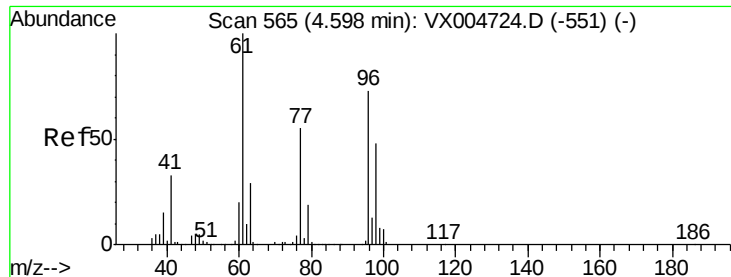
Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



Time-->



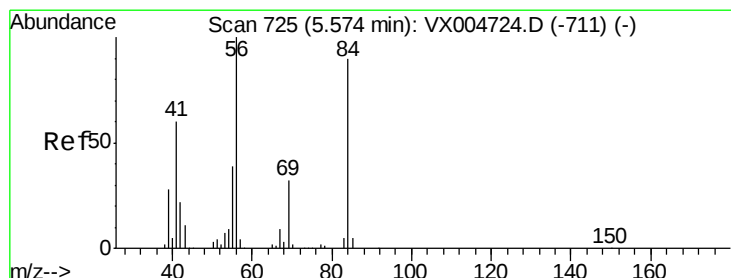
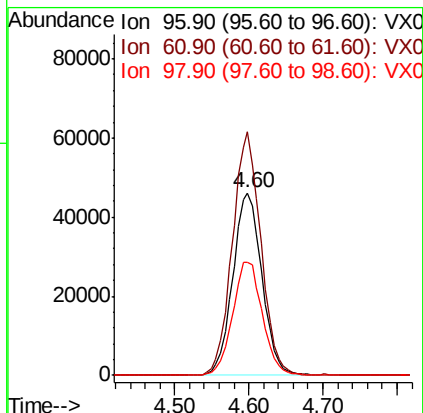
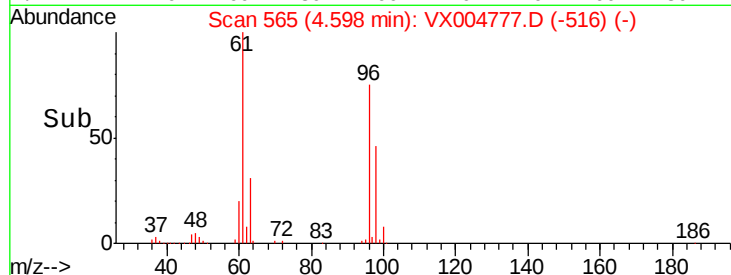
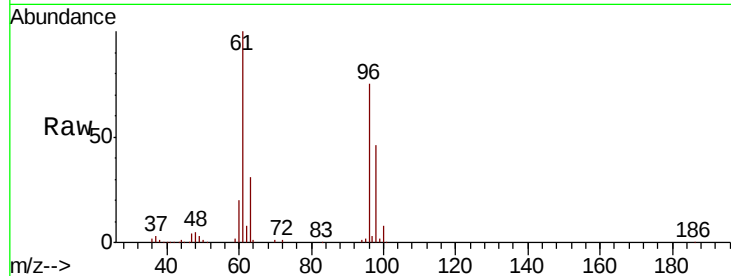


#27

cis-1,2-Dichloroethene
 Concen: 38.742 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX004777.D
 Acq: 27 Sep 2018 16:37

Instrument :
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 ClientSampleId :
 MW-80-SEP18DL

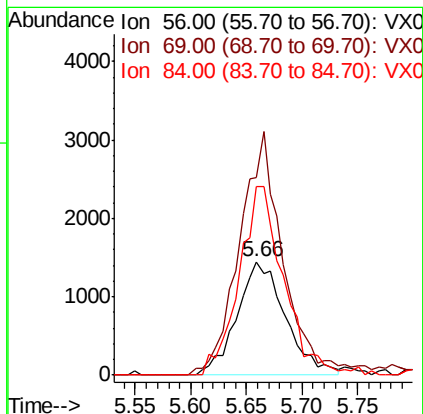
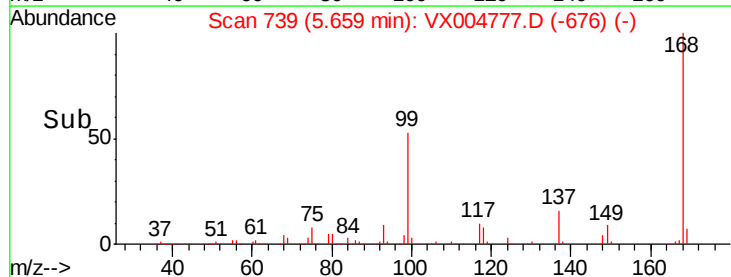
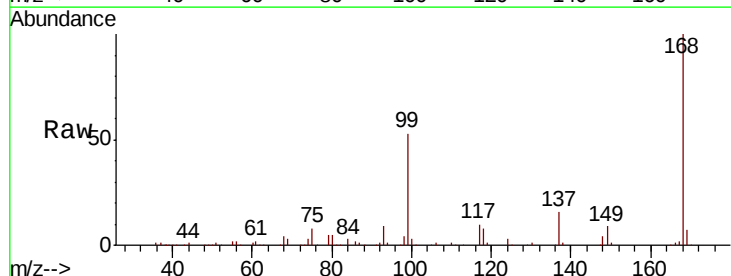
Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	0.0	282.6
98	63.4	0.0	130.2

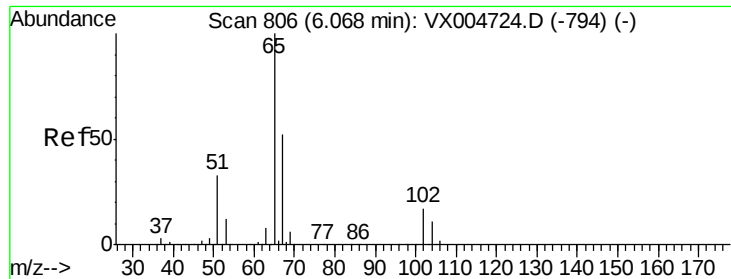


#31

Cyclohexane
 Concen: 0.979 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.09 min
 Lab File: VX004777.D
 Acq: 27 Sep 2018 16:37

Tgt Ion	Ratio	Lower	Upper
56	100		
69	175.1	25.4	38.2#
84	167.0	71.4	107.2#

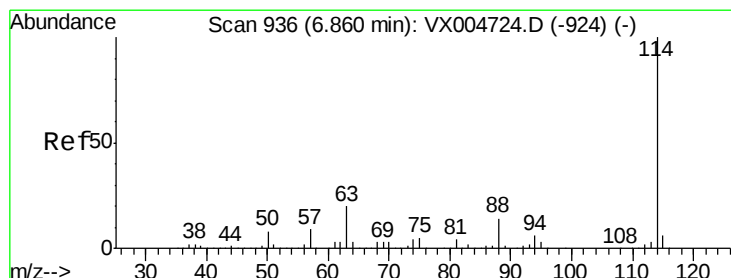
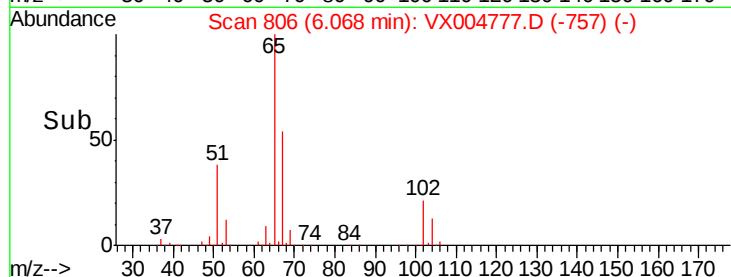
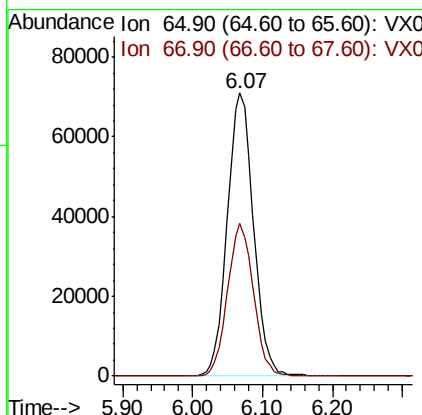
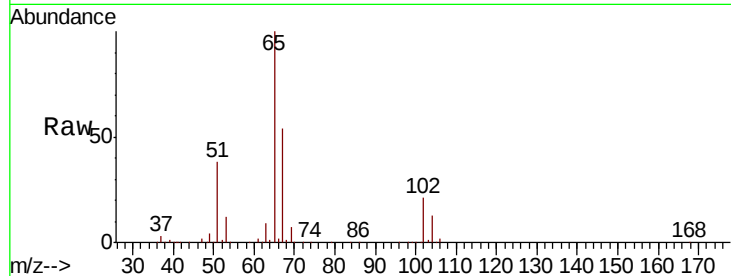




#33
 1,2-Dichloroethane-d4
 Concen: 52.601 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004777.D
 Acq: 27 Sep 2018 16:37

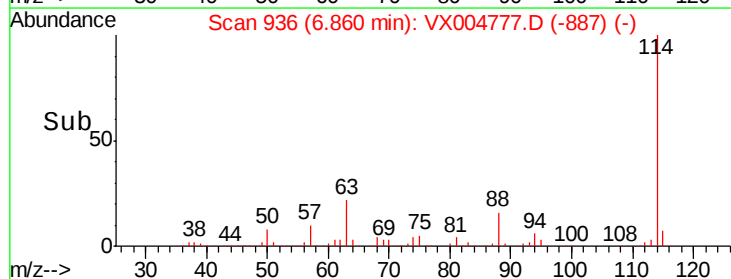
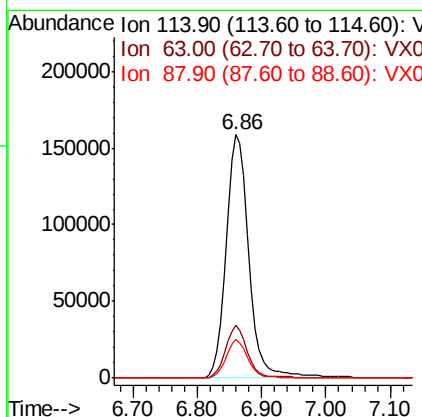
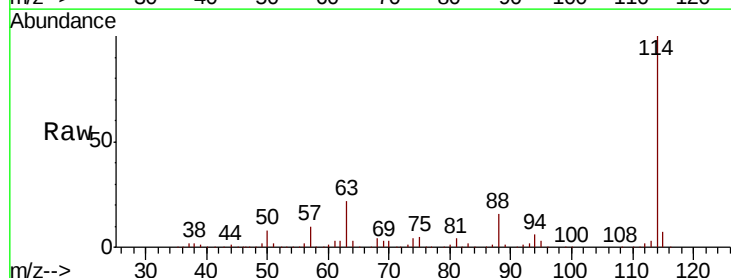
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-80-SEP18DL

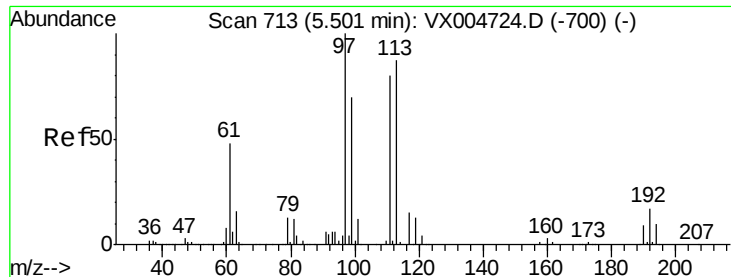
Tot Ion: 65 Resp: 185170
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004777.D
 Acq: 27 Sep 2018 16:37

Tgt Ion: 114 Resp: 396704
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 39.0
 88 15.8 0.0 30.4

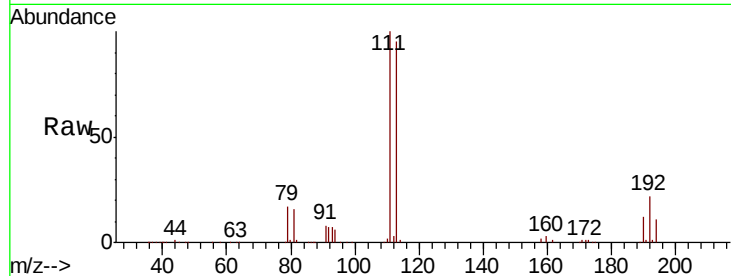




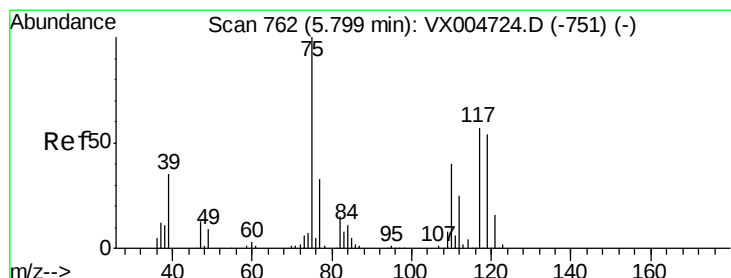
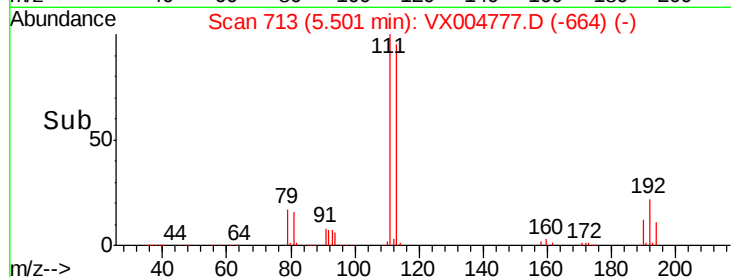
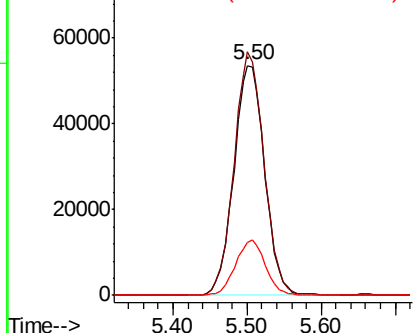
#35
 Dibromofluoromethane
 Concen: 46.407 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004777.D
 Acq: 27 Sep 2018 16:37

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-80-SEP18DL

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	23.4	19.4	29.2

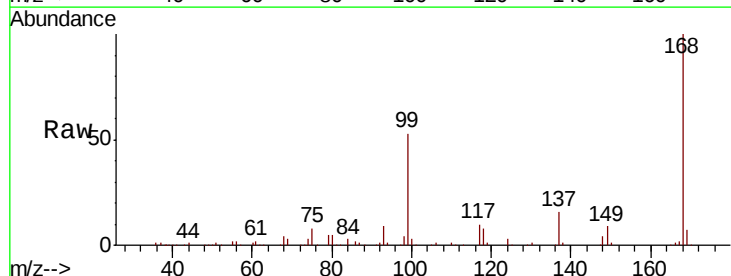


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

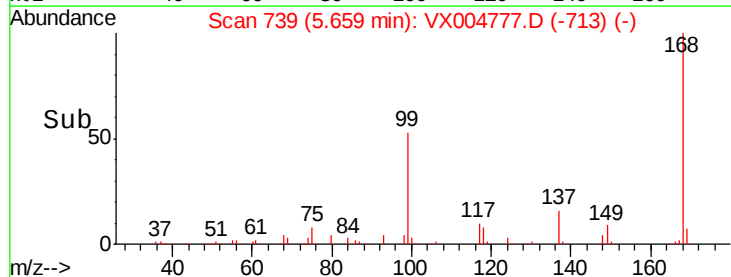
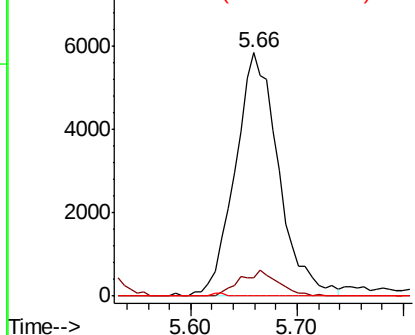


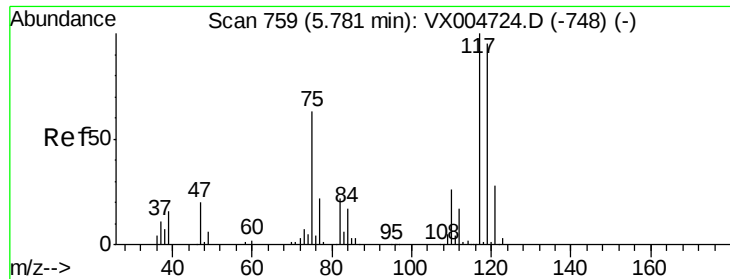
#36
 1,1-Dichloropropene
 Concen: 3.645 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004777.D
 Acq: 27 Sep 2018 16:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.0	54.0#
77	0.0	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: 4.368 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

MW-80-SEP18DL

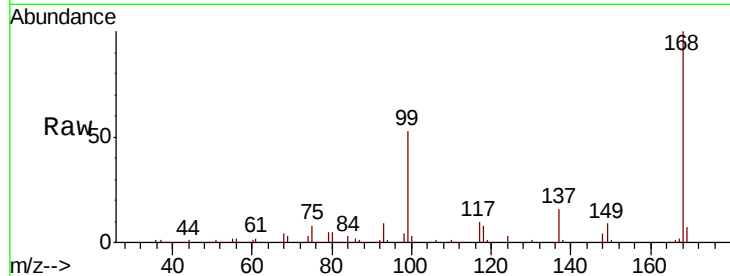
Tot Ion:117 Resp: 21062

Ion Ratio Lower Upper

117 100

119 6.2 78.8 118.2#

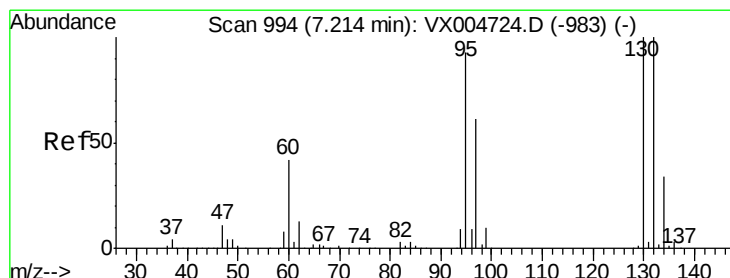
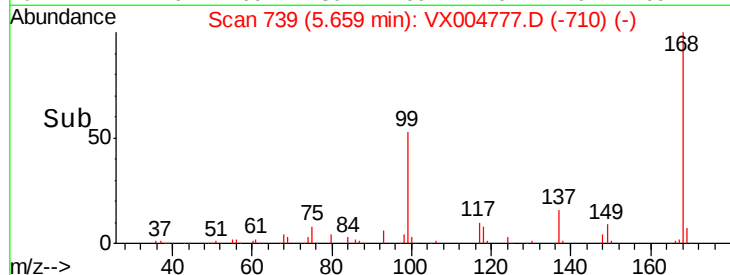
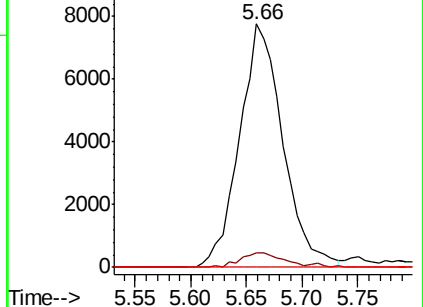
121 0.0 24.9 37.3#



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



#44

Trichloroethene

Concen: 3.990 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX004777.D

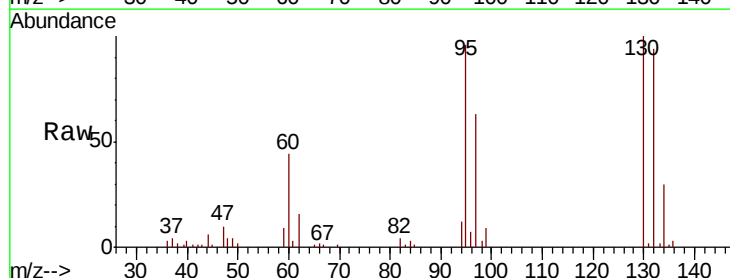
Acq: 27 Sep 2018 16:37

Tgt Ion:130 Resp: 14088

Ion Ratio Lower Upper

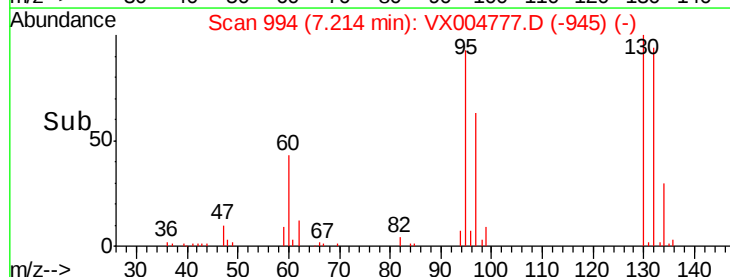
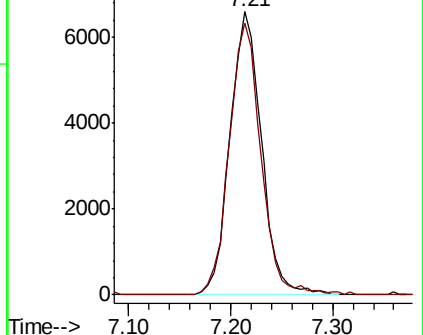
130 100

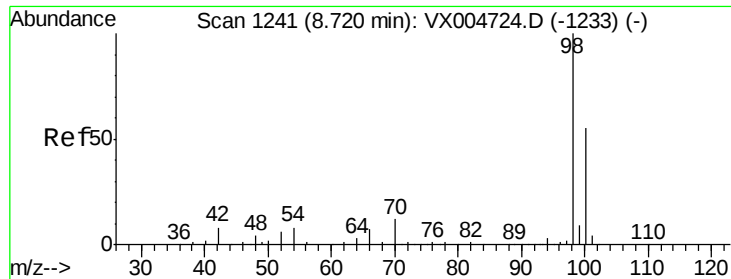
95 95.9 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

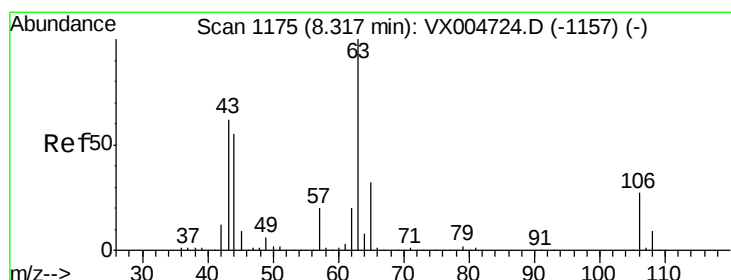
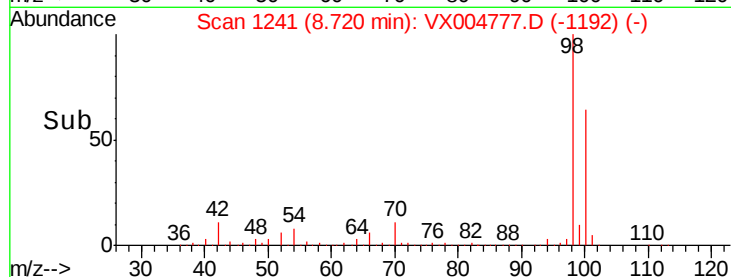
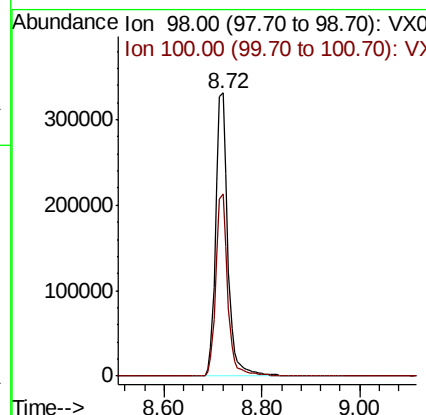
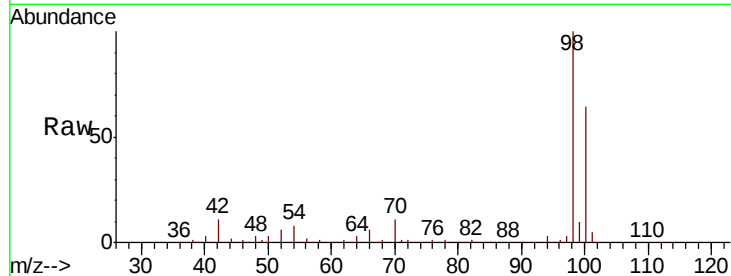




#50
Toluene-d8
Concen: 51.300 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004777.D
Acq: 27 Sep 2018 16:37

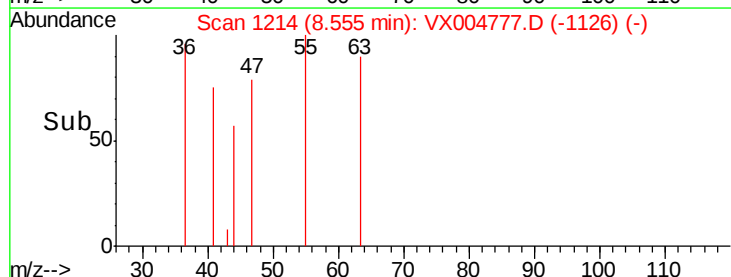
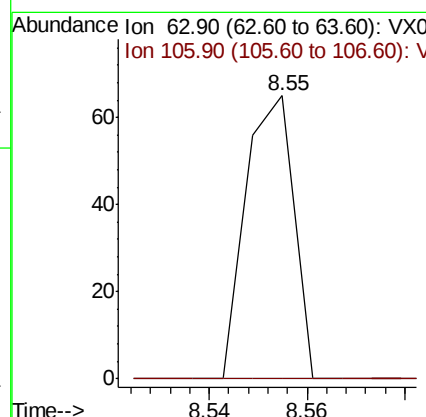
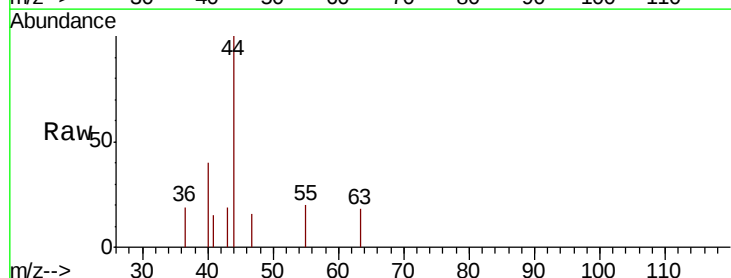
Instrument :
MSVOA_X
ClientSampleId :
MW-80-SEP18DL

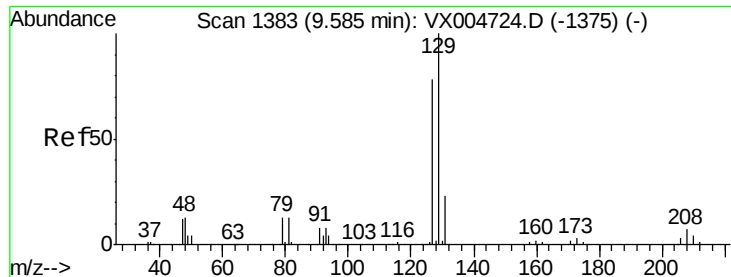
Tot Ion: 98 Resp: 573396
Ion Ratio Lower Upper
98 100
100 63.4 52.9 79.3



#58
2-Chloroethyl Vinyl ether
Concen: 14.256 ug/l
RT: 8.55 min Scan# 1214
Delta R.T. 0.24 min
Lab File: VX004777.D
Acq: 27 Sep 2018 16:37

Tgt Ion: 63 Resp: 44
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#





#60

Dibromochloromethane

Concen: 7.858 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

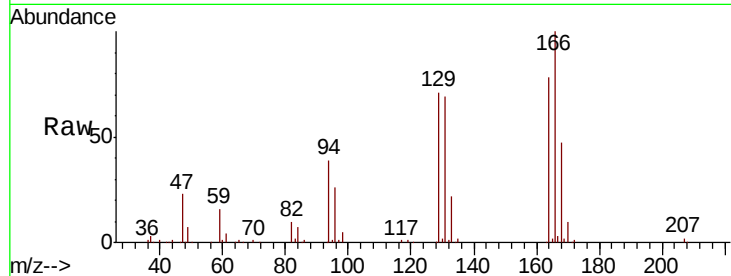
MW-80-SEP18DL

Tot Ion:129 Resp: 27163

Ion Ratio Lower Upper

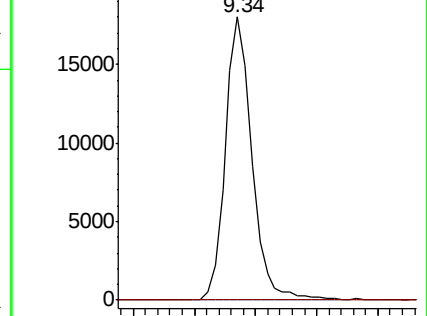
129 100

127 0.0 38.5 115.5#

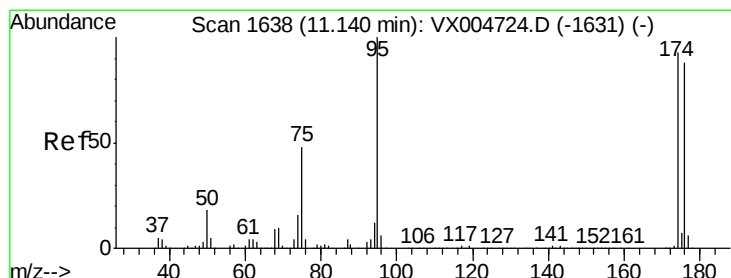
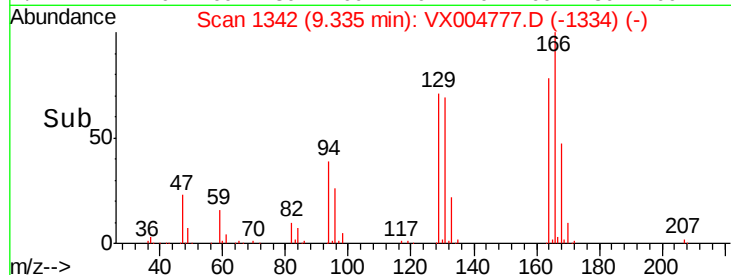


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 50.218 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

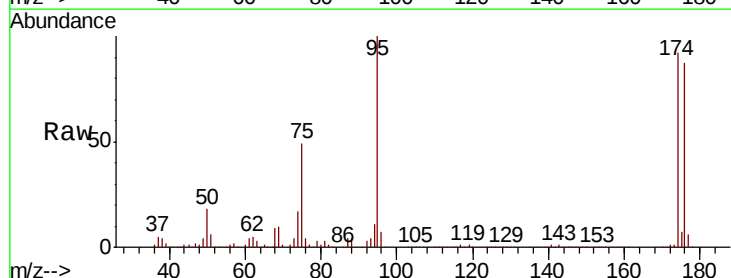
Tgt Ion: 95 Resp: 202212

Ion Ratio Lower Upper

95 100

174 91.9 0.0 185.2

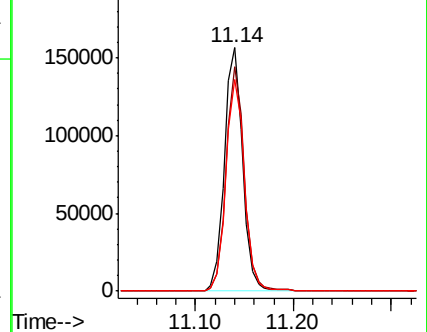
176 88.6 0.0 178.6



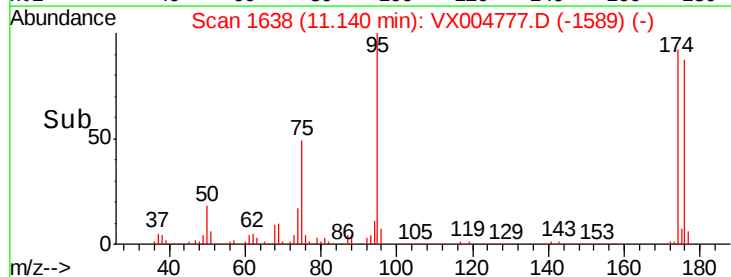
Abundance Ion 94.90 (94.60 to 95.60): VX0

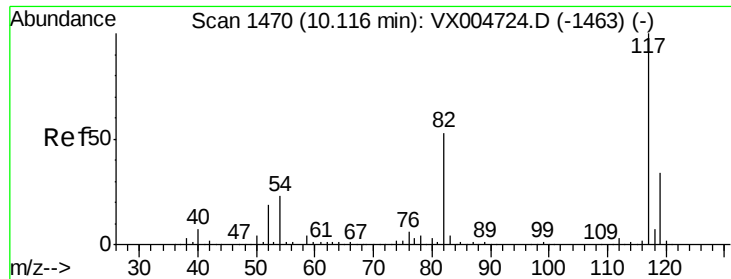
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

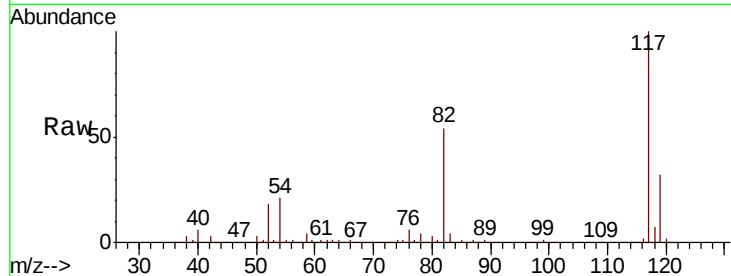




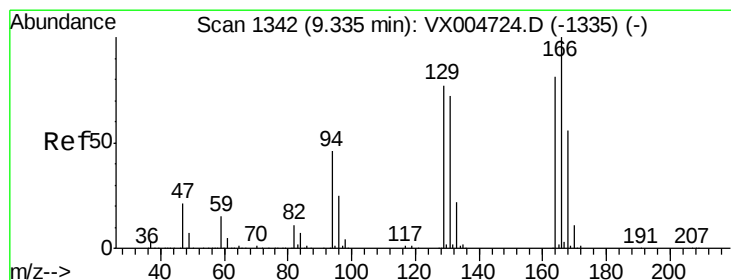
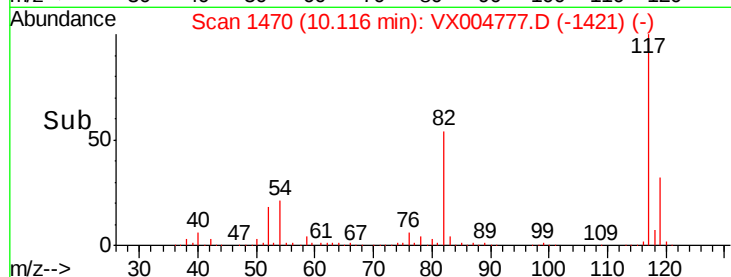
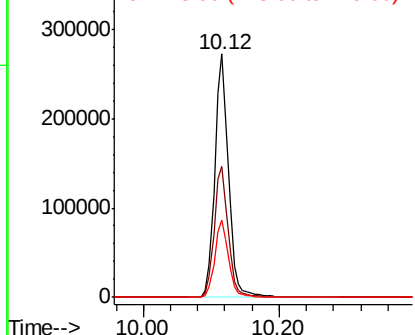
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004777.D
Acq: 27 Sep 2018 16:37

Instrument :
MSVOA_X
ClientSampled :
MW-80-SEP18DL

Tot Ion:117 Resp: 381667
Ion Ratio Lower Upper
117 100
82 53.8 47.8 71.6
119 31.9 29.3 43.9

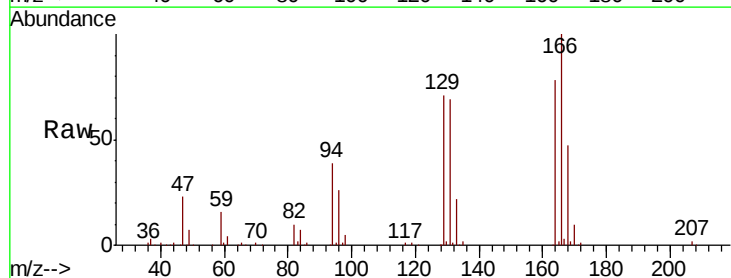


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

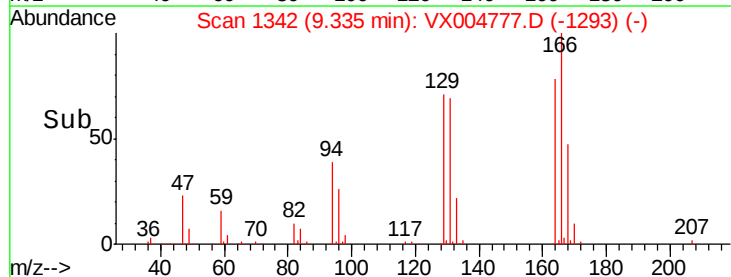
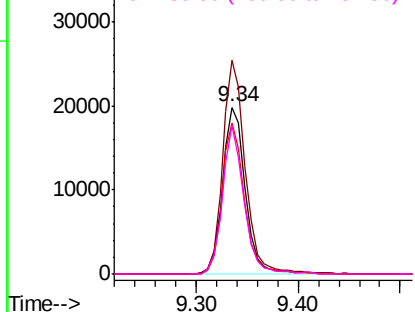


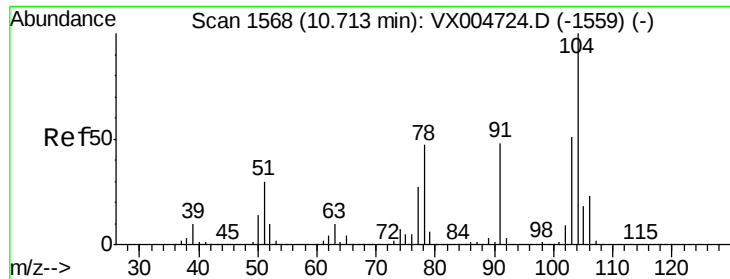
#64
Tetrachloroethene
Concen: 8.217 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX004777.D
Acq: 27 Sep 2018 16:37

Tgt Ion:164 Resp: 30867
Ion Ratio Lower Upper
164 100
166 128.4 102.8 154.2
129 91.1 69.4 104.0
131 88.9 67.9 101.9



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#70

Stvrene

Concen: 2.145 ug/l

RT: 10.72 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

MW-80-SEP18DL

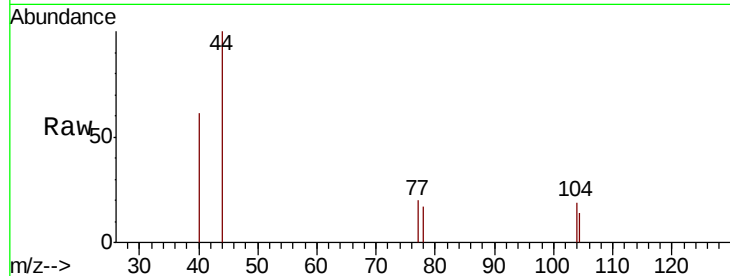
Tot Ion:104 Resp: 45

Ion Ratio Lower Upper

104 100

78 51.1 37.4 56.0

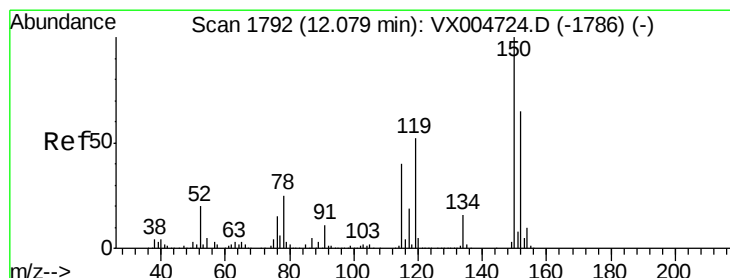
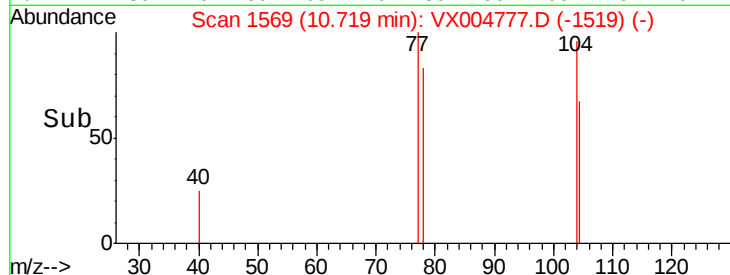
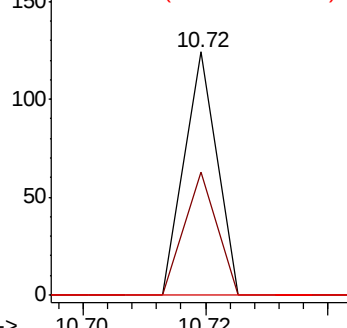
103 0.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

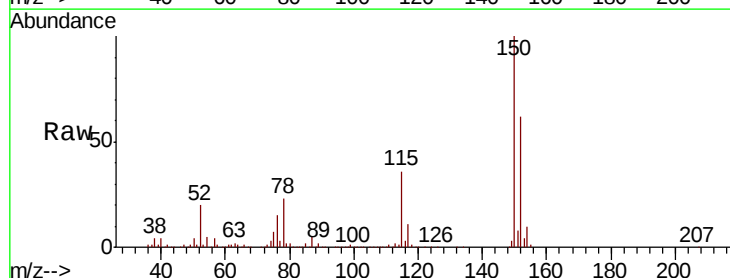
Tgt Ion:152 Resp: 210594

Ion Ratio Lower Upper

152 100

115 56.1 39.0 117.0

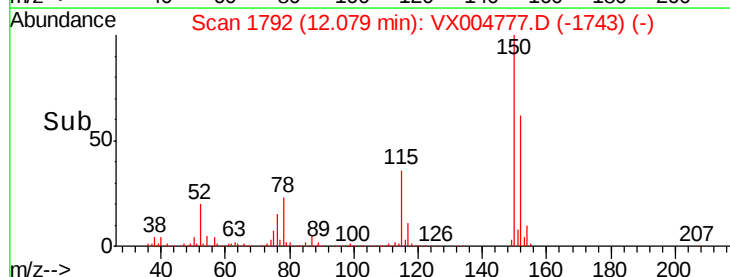
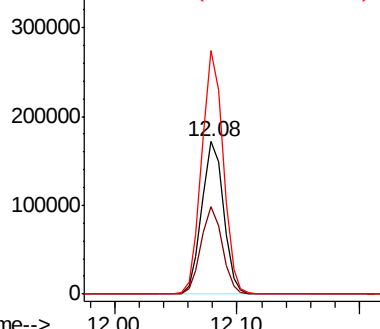
150 157.3 0.0 351.0

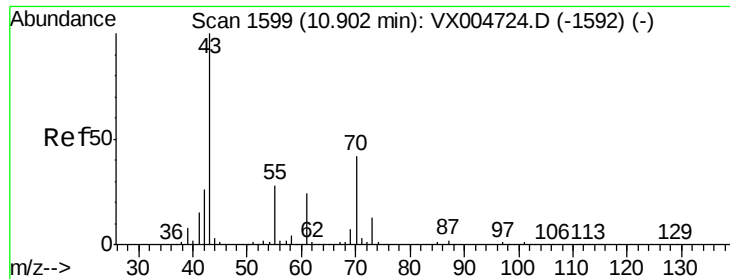


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.757 ug/l

RT: 10.87 min Scan# 1593

Delta R.T. -0.04 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

MW-80-SEP18DL

Tot Ion: 43 Resp: 67

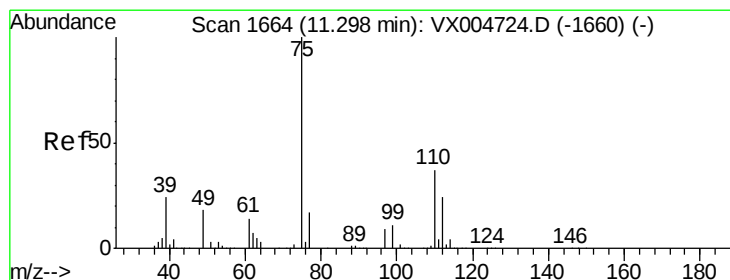
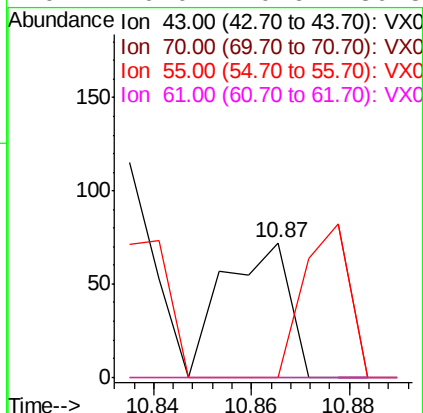
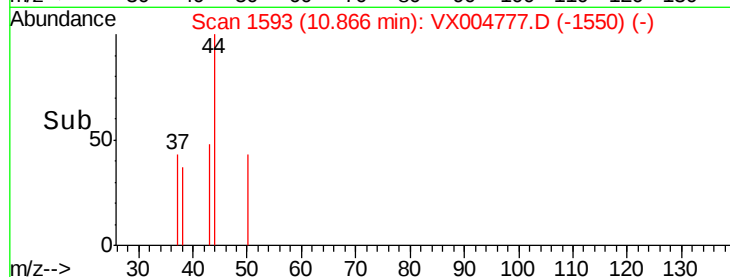
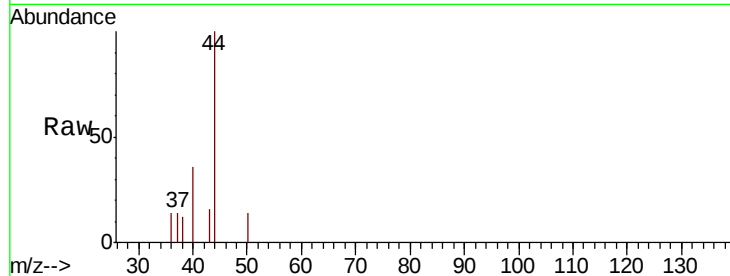
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 79.1 21.8 32.8#

61 0.0 20.6 30.8#



#76

1,2,3-Trichloropropane

Concen: 21.297 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004777.D

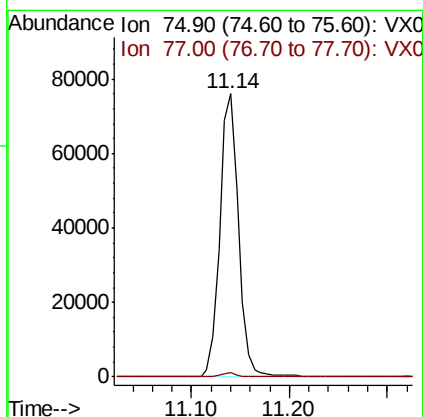
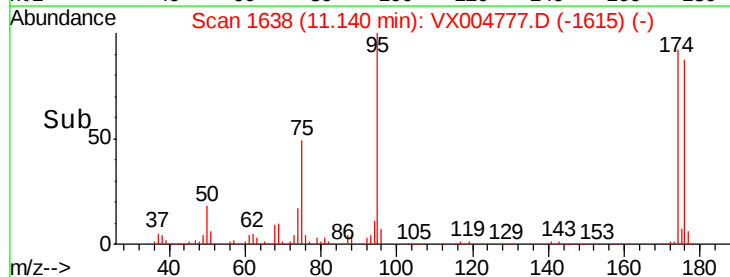
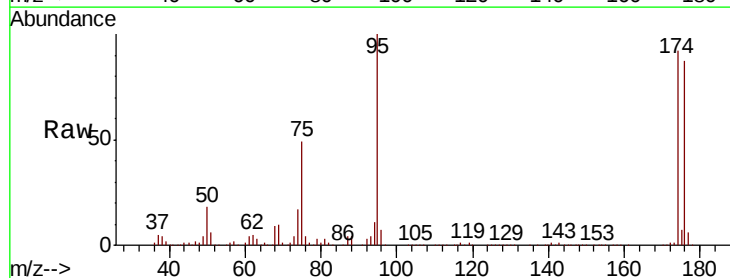
Acq: 27 Sep 2018 16:37

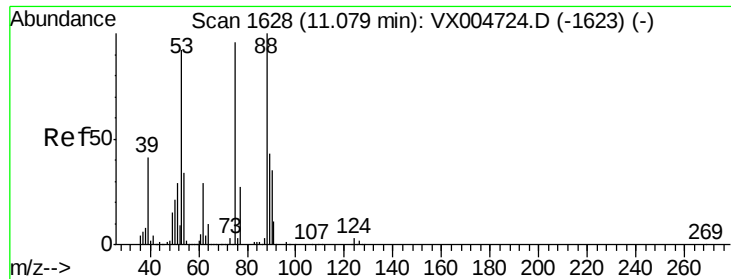
Tgt Ion: 75 Resp: 100525

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 57.763 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

Instrument :

MSVOA_X

ClientSampleId :

MW-80-SEP18DL

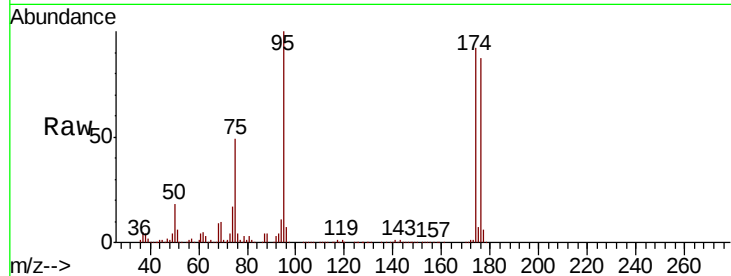
Tot Ion: 75 Resp: 100525

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

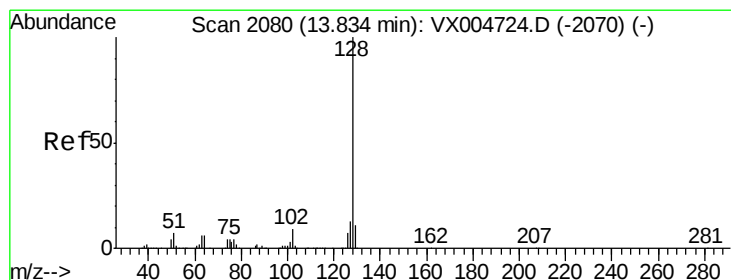
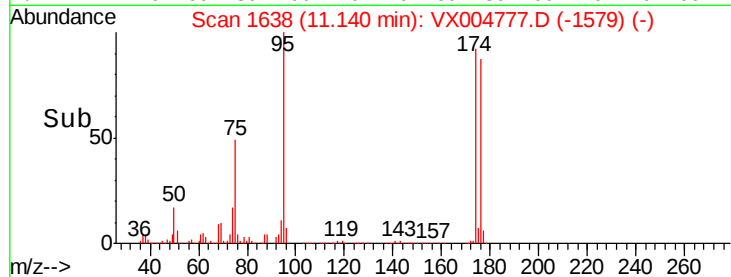
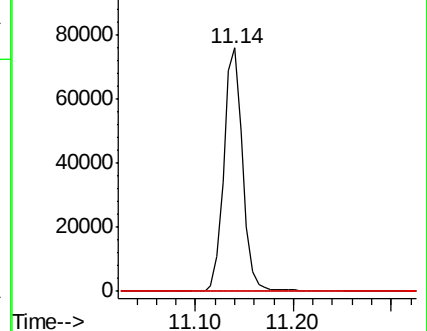
89 0.0 37.2 55.8#



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



#95

Naphthalene

Concen: 0.747 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004777.D

Acq: 27 Sep 2018 16:37

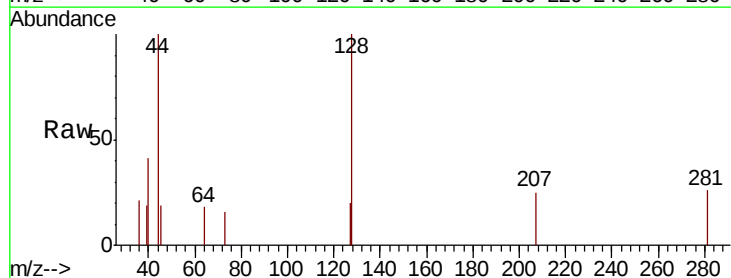
Tgt Ion: 128 Resp: 496

Ion Ratio Lower Upper

128 100

127 10.5 10.2 15.2

129 0.0 8.6 12.8#



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

