

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006679.D
 Acq On : 20 Dec 2018 16:41
 Operator : JC/MD
 Sample : J6484-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 974-MW-18(21.5)

Quant Time: Dec 21 03:32:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	613525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	978779	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	900531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	429394	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	334525	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	5.50	113	290369	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
50) Toluene-d8	8.71	98	1168826	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	11.14	95	415622	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	

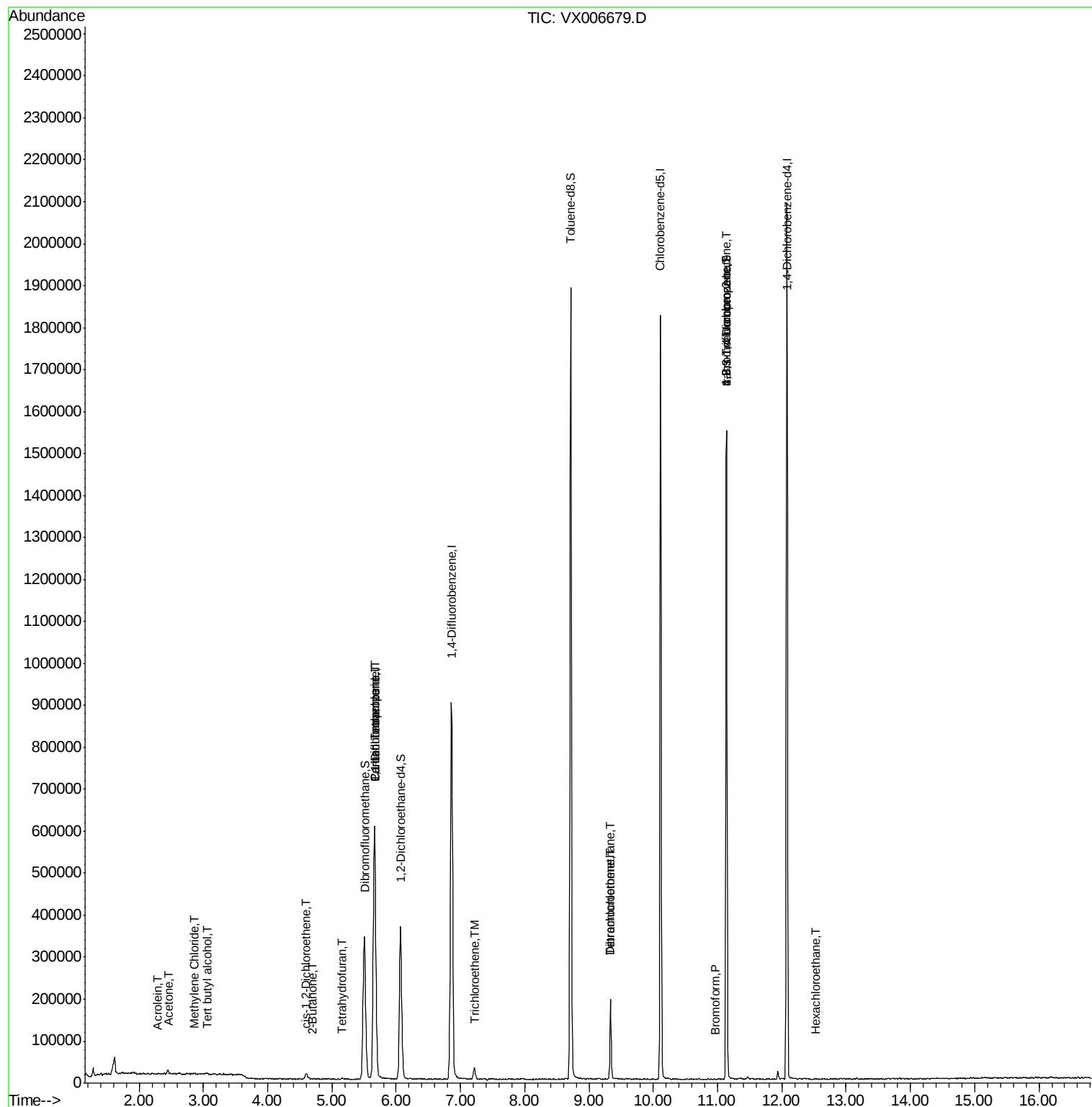
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	498	Below Cal	#	40
11) Tert butyl alcohol	3.07	59	1257	0.852	ug/l #	72
13) Acrolein	2.29	56	296	0.297	ug/l #	13
16) Acetone	2.45	43	10980	3.614	ug/l #	86
20) Methylene Chloride	2.86	84	1314	0.209	ug/l #	50
25) 2-Butanone	4.70	43	1566	0.366	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	9906	1.478	ug/l	88
28) Bromochloromethane	5.03	49	128	Below Cal	#	4
29) Tetrahydrofuran	5.16	42	1545	0.549	ug/l #	64
36) 1,1-Dichloropropene	5.67	75	40861	5.040	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58167	7.383	ug/l #	15
44) Trichloroethene	7.21	130	11181	1.499	ug/l	98
49) 1,4-Dioxane	7.70	88	214	Below Cal	#	47
60) Dibromochloromethane	9.34	129	36142	7.381	ug/l #	10
64) Tetrachloroethene	9.34	164	38361	5.380	ug/l	95
71) Bromoform	10.96	173	99	4.477	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	194535	24.378	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	194535	72.142	ug/l #	10
90) Hexachloroethane	12.52	117	49	3.304	ug/l	73

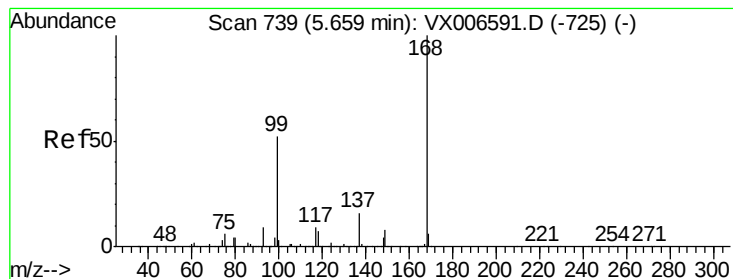
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
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: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

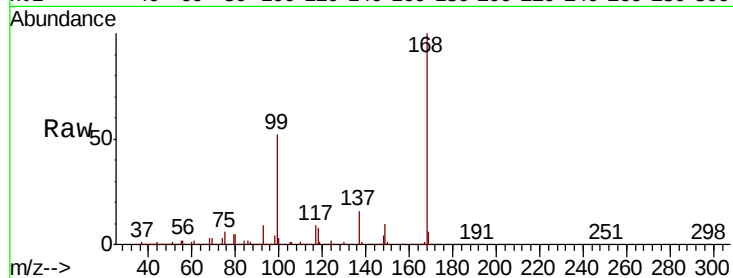
974-MW-18(21.5)

Tot Ion:168 Resp: 613525

Ion Ratio Lower Upper

168 100

99 51.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): VX006679.D (-690) (-)

Ion 98.90 (98.60 to 99.60): VX006679.D (-690) (-)

5.67

250000

200000

150000

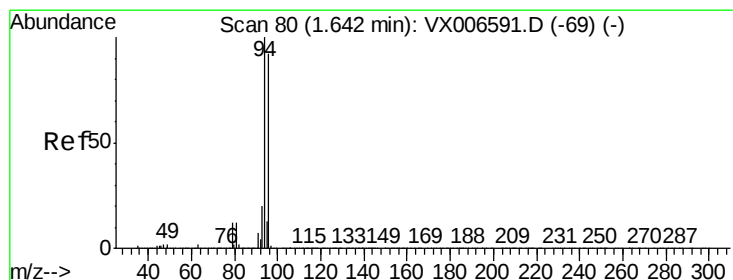
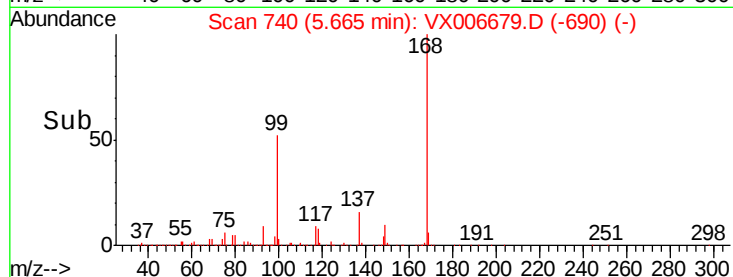
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006679.D

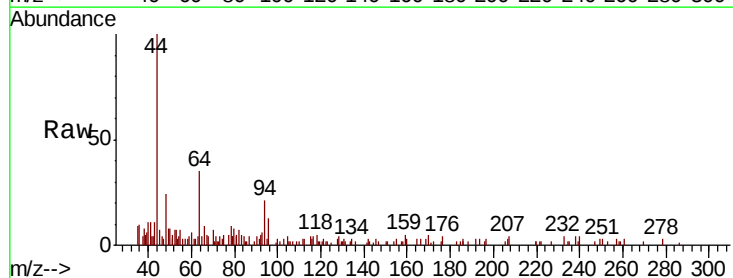
Acq: 20 Dec 2018 16:41

Tgt Ion: 94 Resp: 498

Ion Ratio Lower Upper

94 100

96 34.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX006679.D (-31) (-)

Ion 95.90 (95.60 to 96.60): VX006679.D (-31) (-)

1.65

800

600

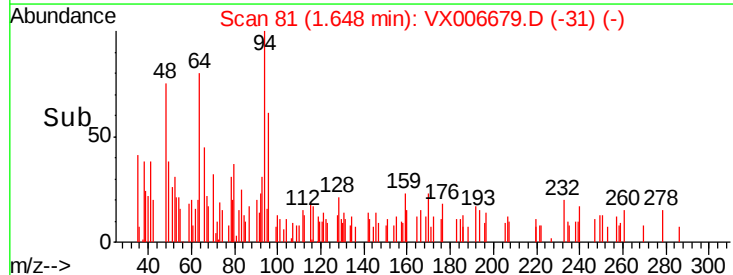
400

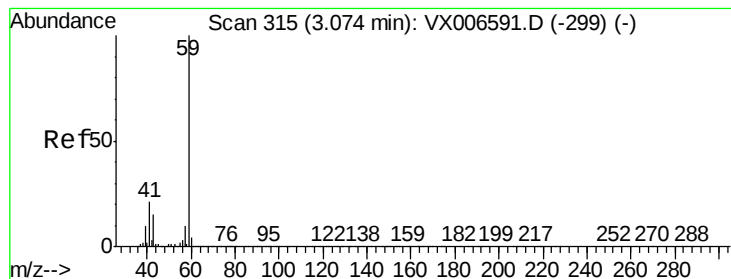
200

0

Time-->

1.63 1.64 1.65 1.66 1.67



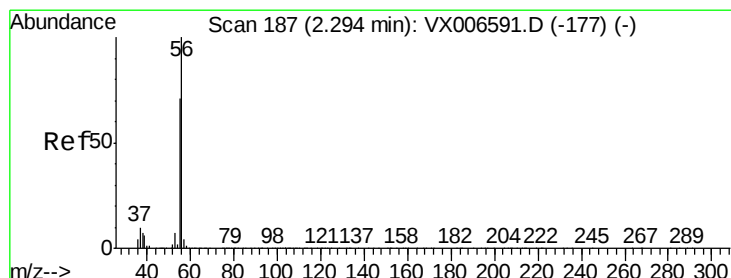
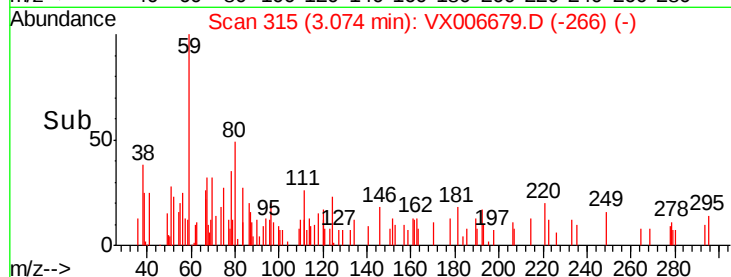
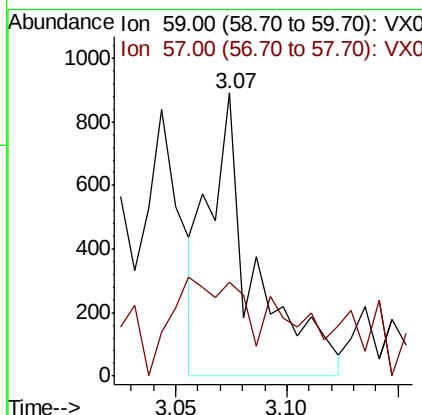
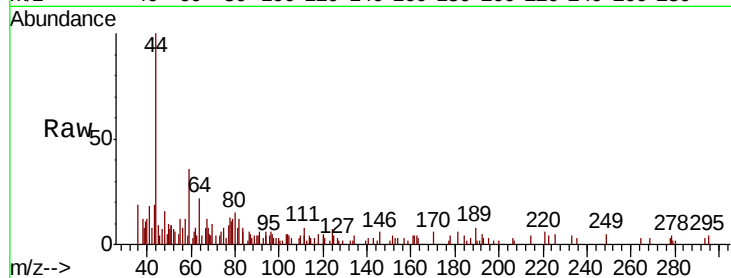


#11

Tert butyl alcohol
 Concen: 0.852 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. -0.00 min
 Lab File: VX006679.D
 Acq: 20 Dec 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 974-MW-18(21.5)

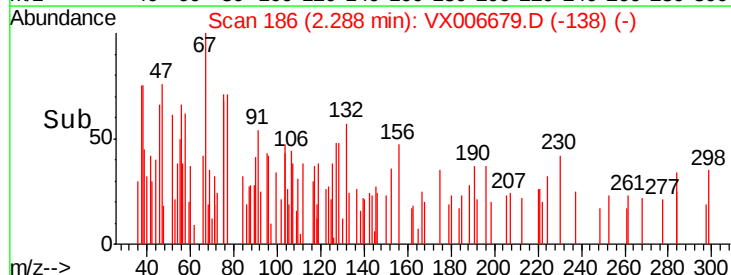
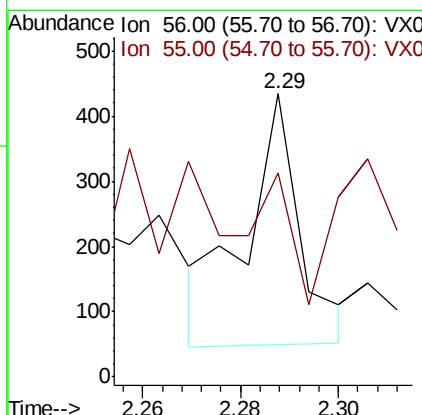
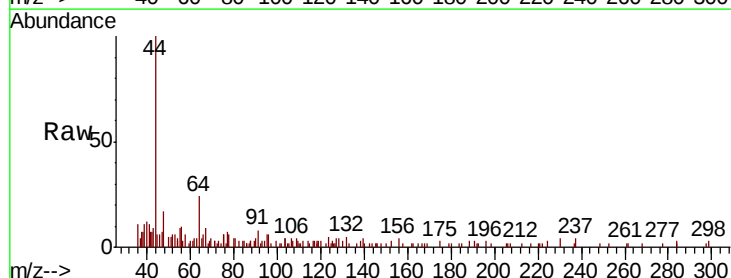
Tot Ion: 59 Resp: 1257
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

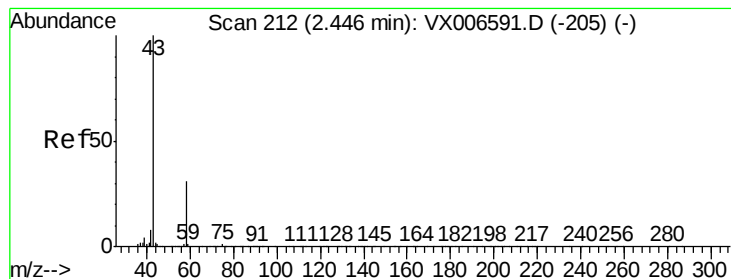


#13

Acrolein
 Concen: 0.297 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX006679.D
 Acq: 20 Dec 2018 16:41

Tgt Ion: 56 Resp: 296
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.2 87.4#





#16

Acetone

Concen: 3.614 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

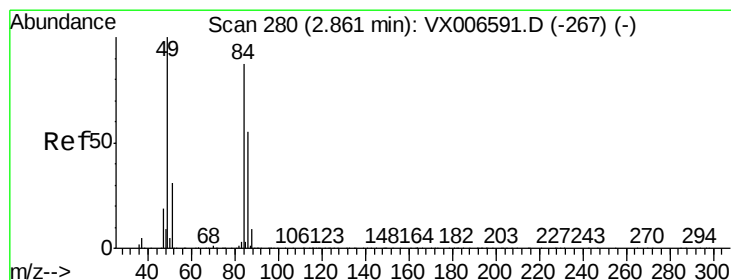
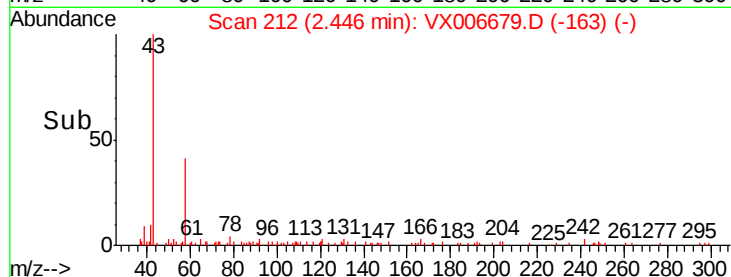
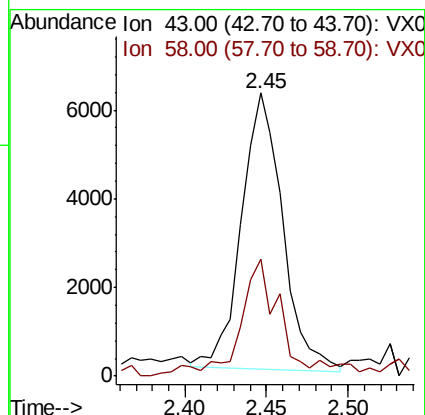
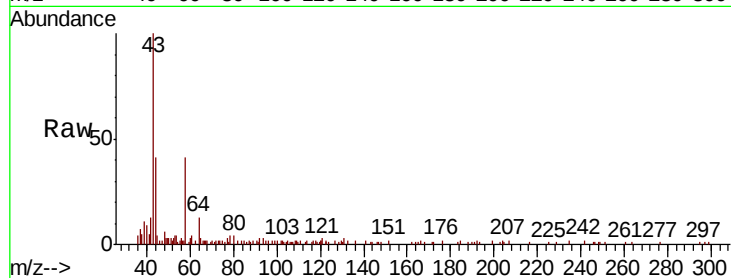
974-MW-18(21.5)

Tot Ion: 43 Resp: 10980

Ion Ratio Lower Upper

43 100

58 38.9 25.0 37.6#



#20

Methylene Chloride

Concen: 0.209 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Tgt Ion: 84 Resp: 1314

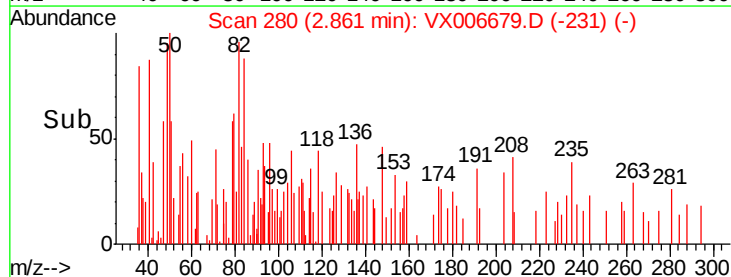
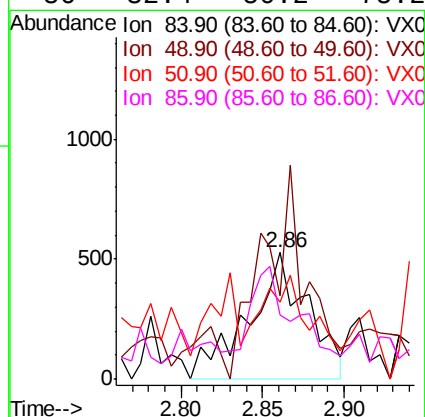
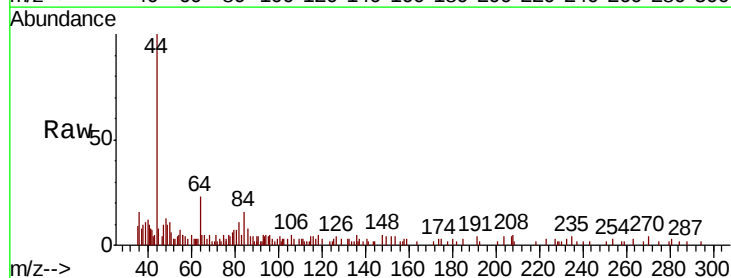
Ion Ratio Lower Upper

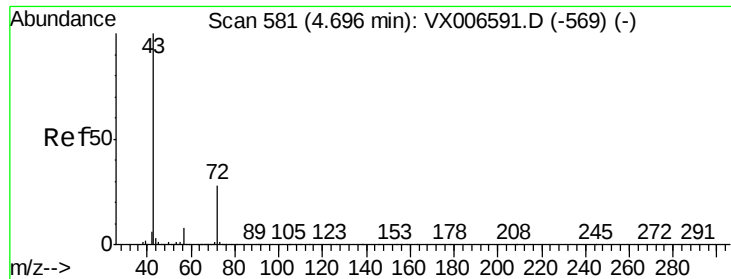
84 100

49 41.7 91.8 137.6#

51 42.9 28.5 42.7#

86 32.4 50.2 75.2#





#25

2-Butanone

Concen: 0.366 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

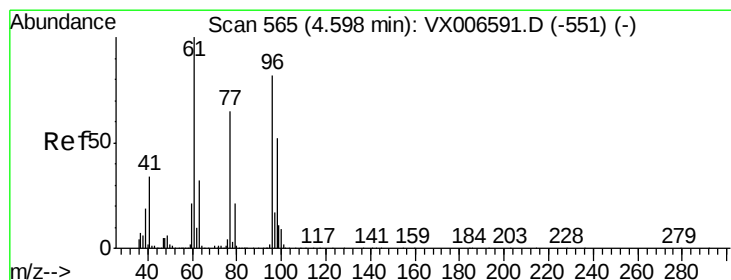
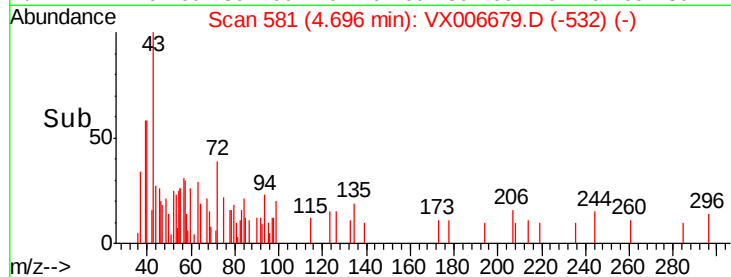
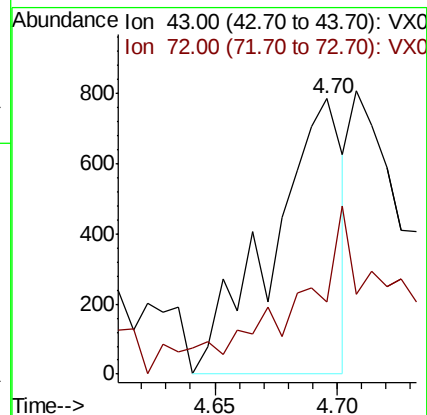
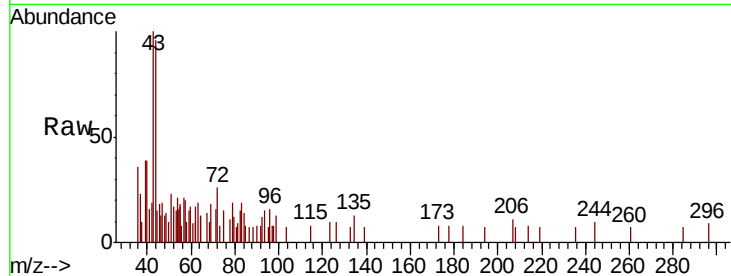
974-MW-18(21.5)

Tot Ion: 43 Resp: 1566

Ion Ratio Lower Upper

43 100

72 16.7 22.4 33.6#



#27

cis-1,2-Dichloroethene

Concen: 1.478 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

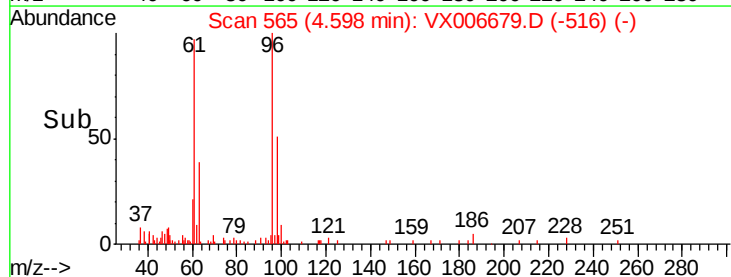
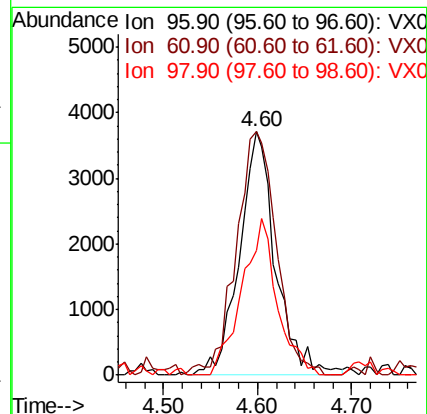
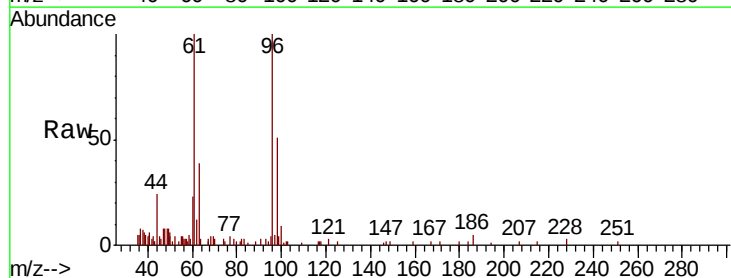
Tgt Ion: 96 Resp: 9906

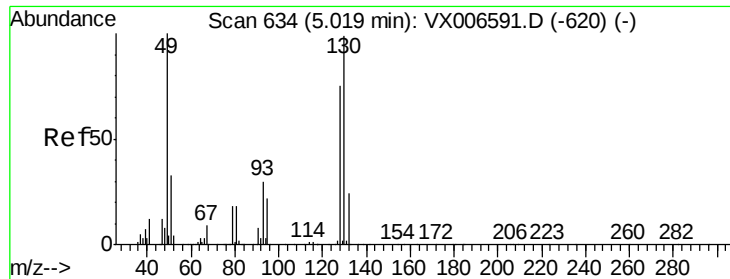
Ion Ratio Lower Upper

96 100

61 111.4 0.0 258.6

98 62.9 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

974-MW-18(21.5)

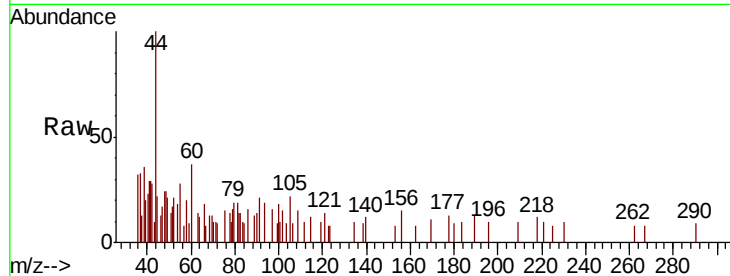
Tot Ion: 49 Resp: 128

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

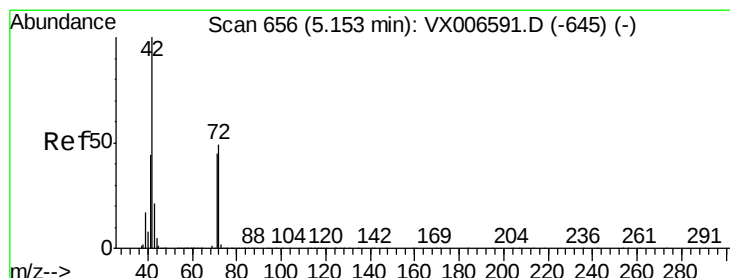
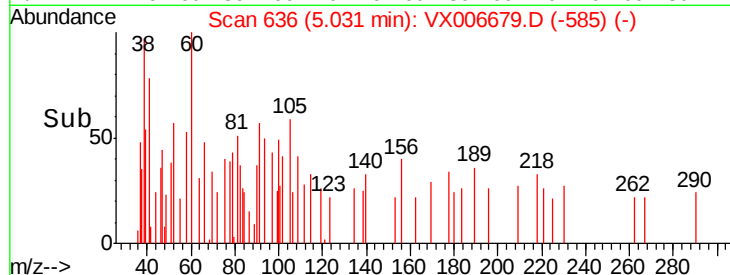
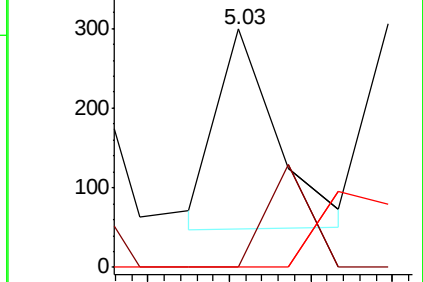
130 0.0 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.549 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

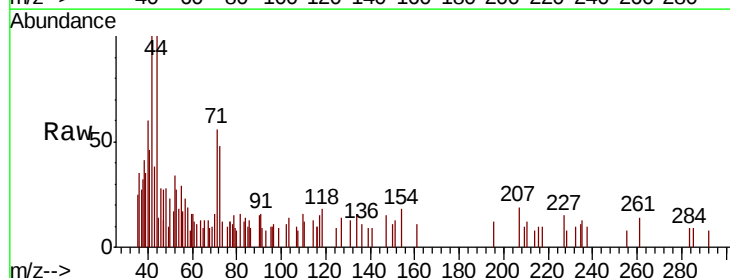
Tgt Ion: 42 Resp: 1545

Ion Ratio Lower Upper

42 100

72 25.4 38.9 58.3#

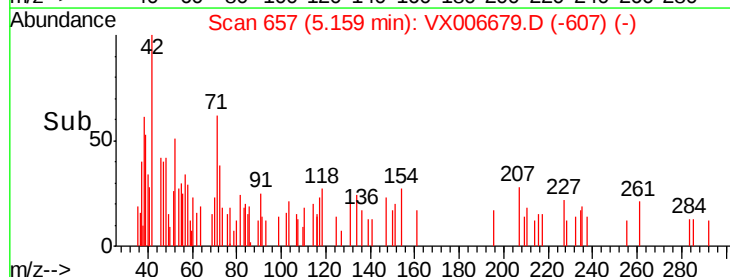
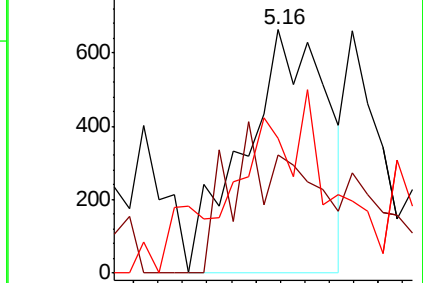
71 19.7 36.2 54.4#

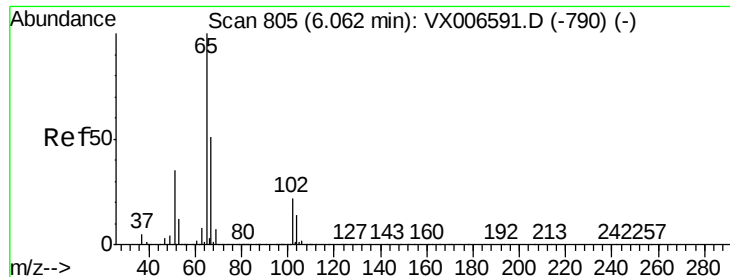


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.591 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

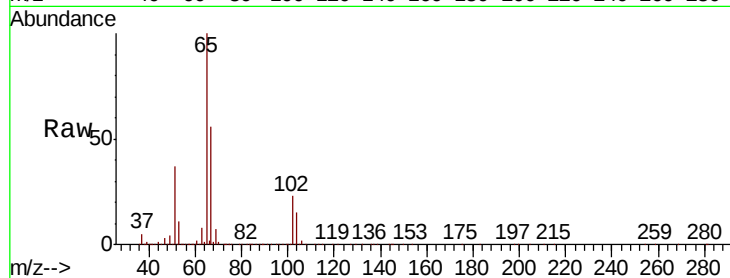
974-MW-18(21.5)

Tot Ion: 65 Resp: 334525

Ion Ratio Lower Upper

65 100

67 55.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

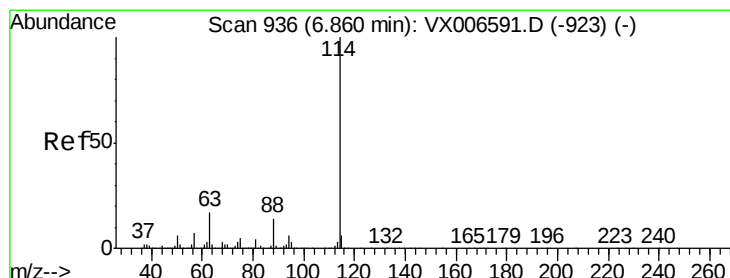
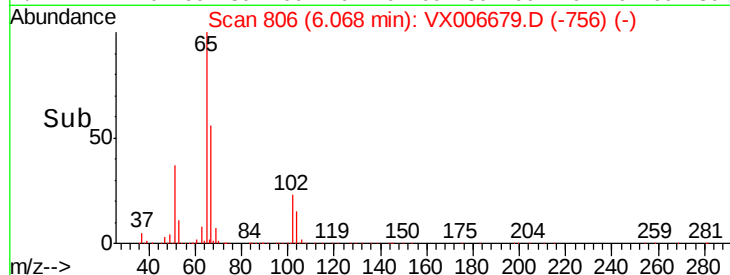
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

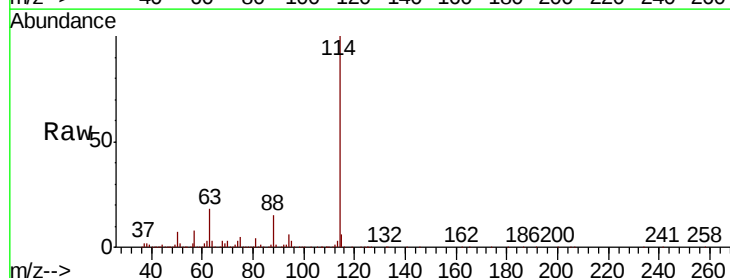
Tgt Ion: 114 Resp: 978779

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

88 14.9 0.0 28.8



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

6.86

500000

400000

300000

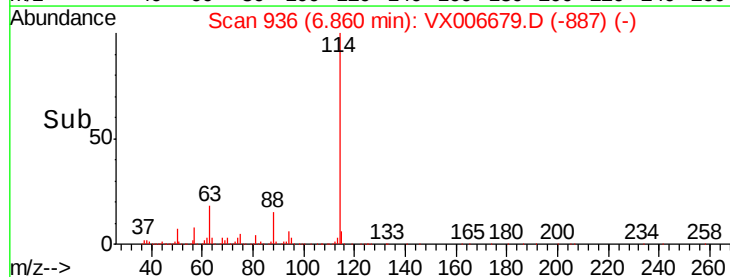
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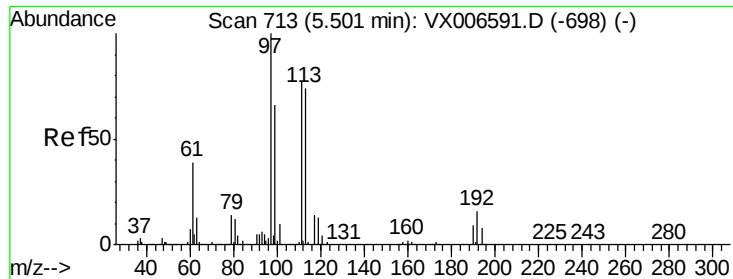
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.912 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

974-MW-18(21.5)

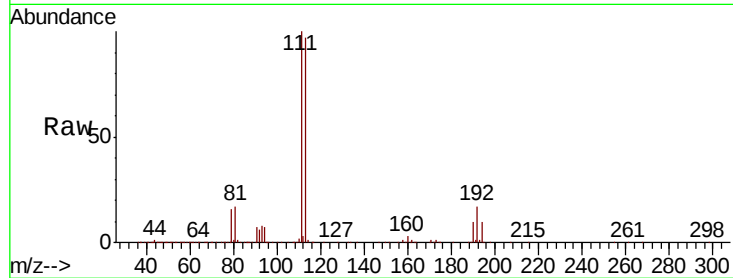
Tot Ion:113 Resp: 290369

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

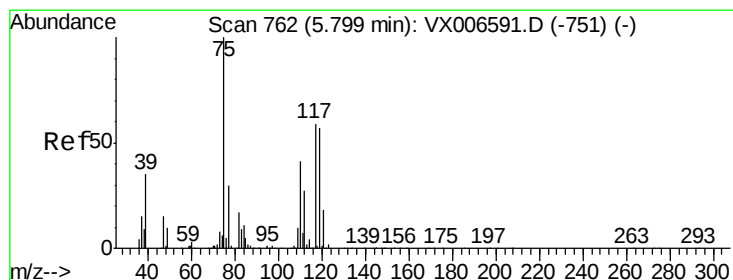
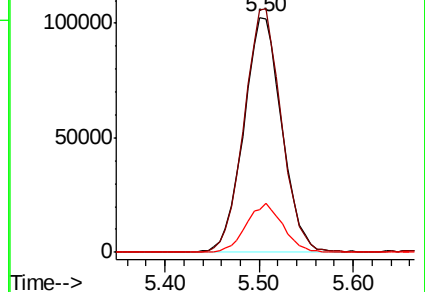
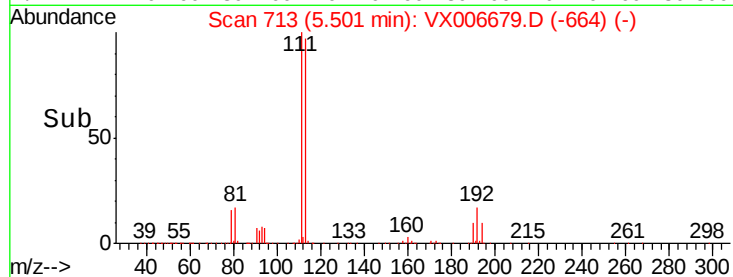
192 20.2 16.7 25.1



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: 5.040 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

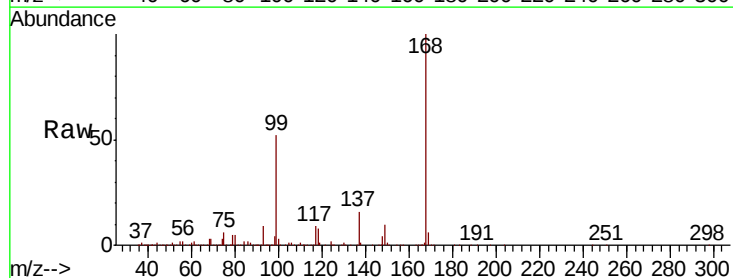
Tgt Ion: 75 Resp: 40861

Ion Ratio Lower Upper

75 100

110 10.7 20.2 60.5#

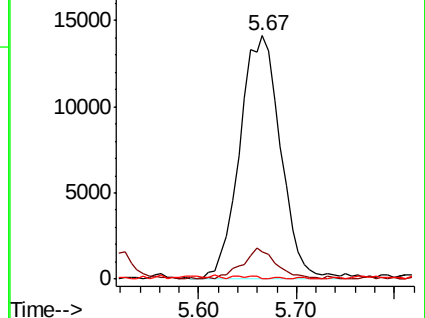
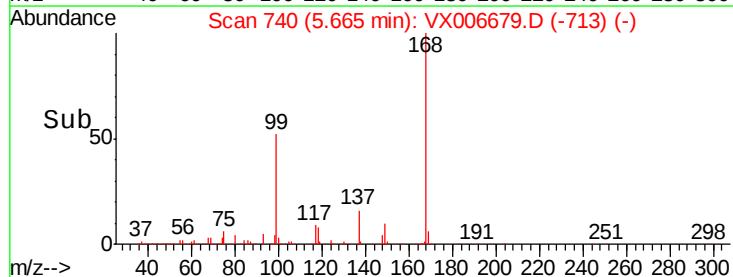
77 0.1 24.8 37.2#

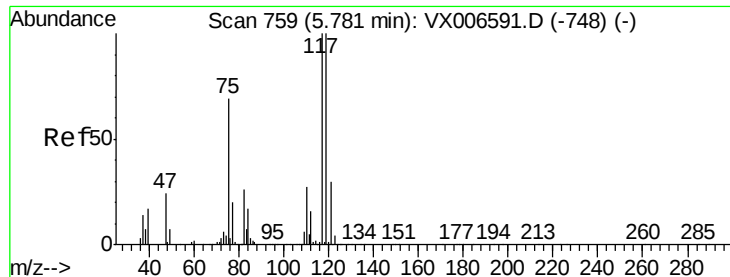


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.383 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

974-MW-18(21.5)

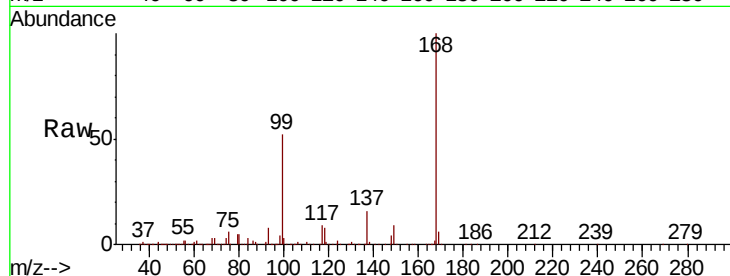
Tot Ion:117 Resp: 58167

Ion Ratio Lower Upper

117 100

119 5.7 79.4 119.2#

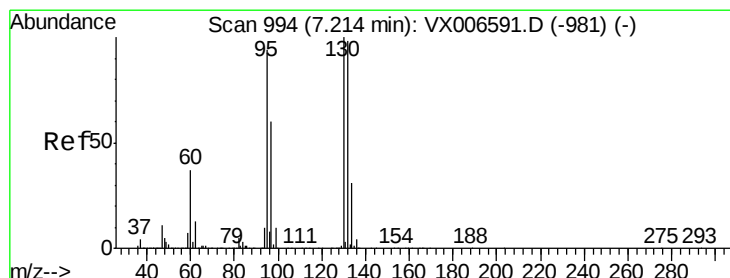
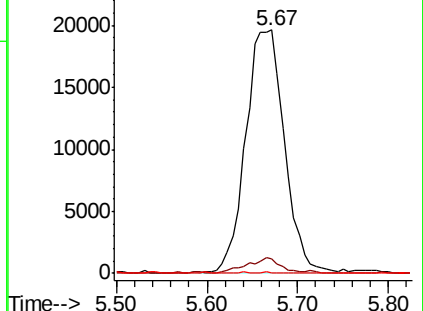
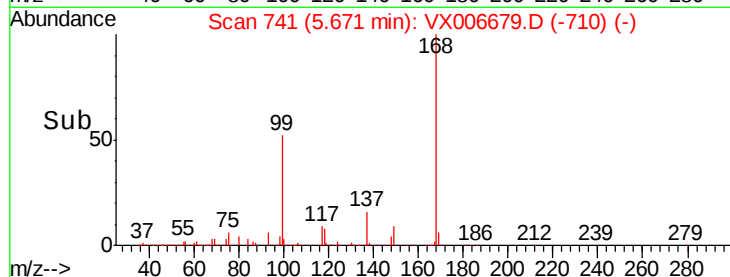
121 0.3 24.0 36.0#



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: 1.499 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006679.D

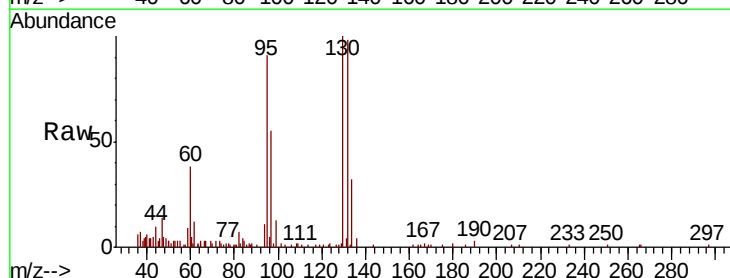
Acq: 20 Dec 2018 16:41

Tgt Ion:130 Resp: 11181

Ion Ratio Lower Upper

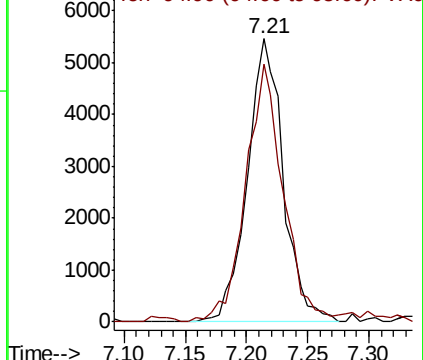
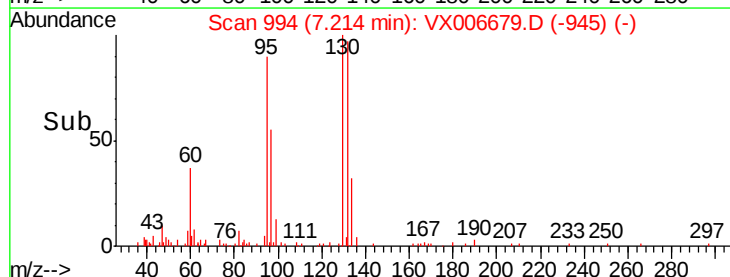
130 100

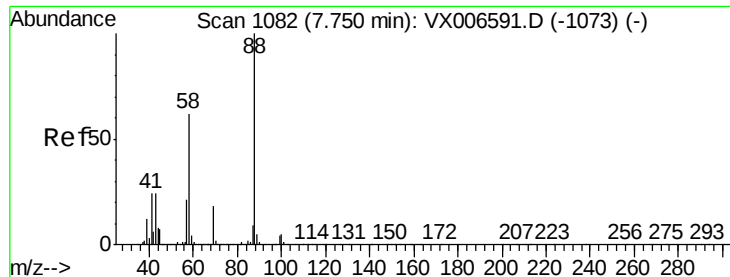
95 91.3 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

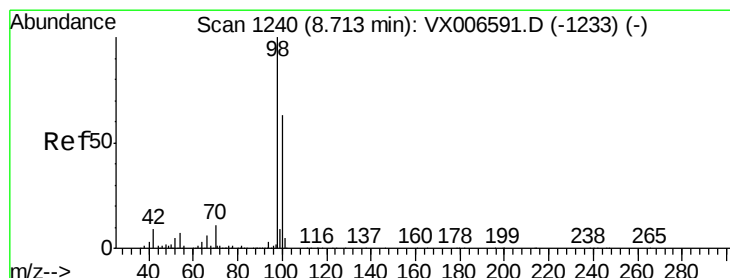
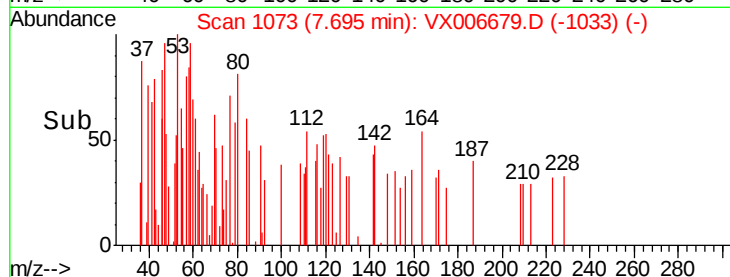
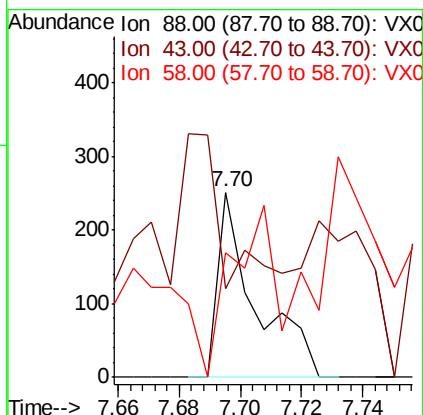
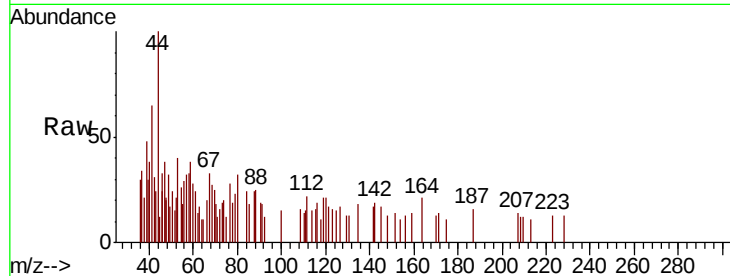




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.70 min Scan# 1073
Delta R.T. -0.05 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

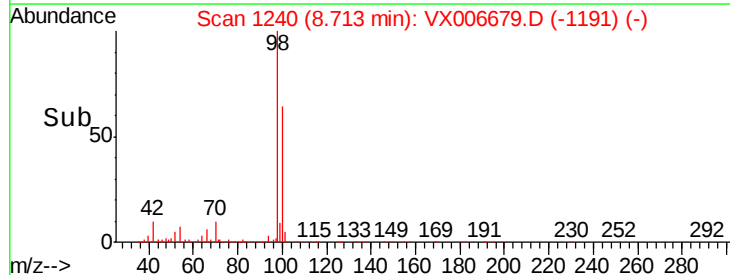
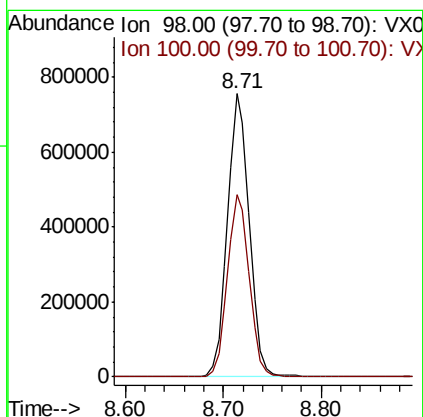
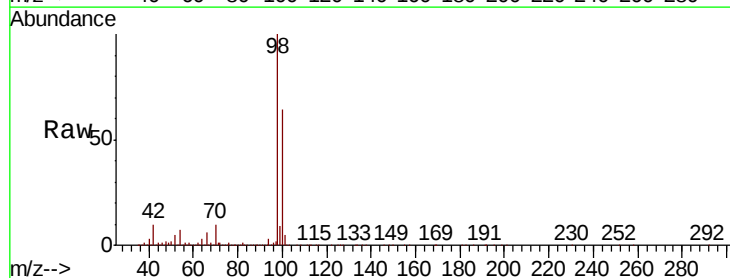
Instrument :
MSVOA_X
ClientSampleId :
974-MW-18(21.5)

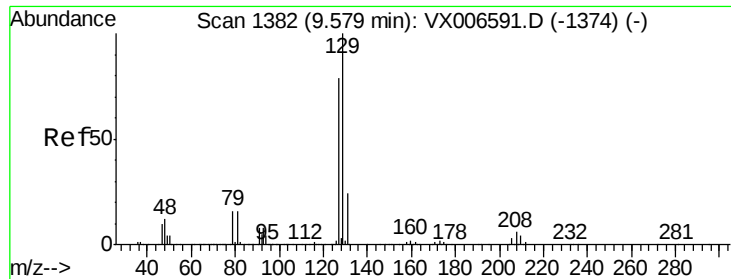
Tot Ion: 88 Resp: 214
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 105.1 51.0 76.4#



#50
Toluene-d8
Concen: 50.089 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

Tgt Ion: 98 Resp: 1168826
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0





#60

Dibromochloromethane

Concen: 7.381 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

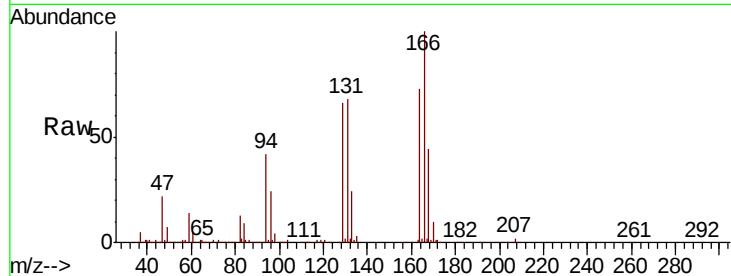
974-MW-18(21.5)

Tot Ion:129 Resp: 36142

Ion Ratio Lower Upper

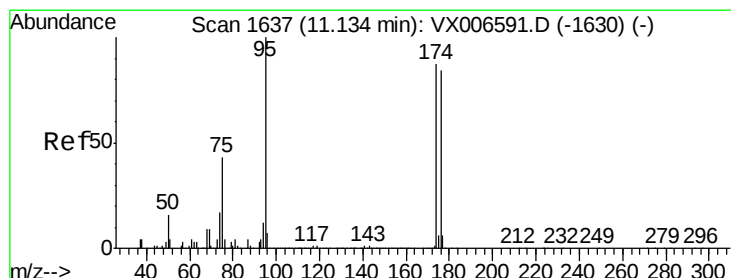
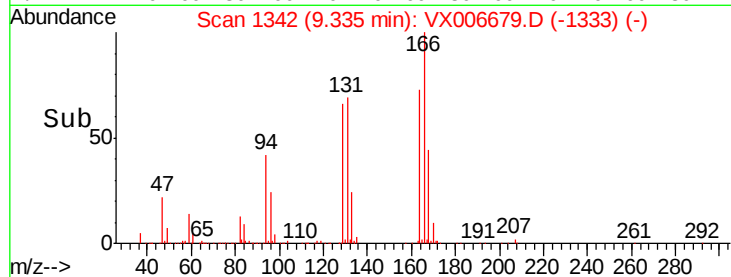
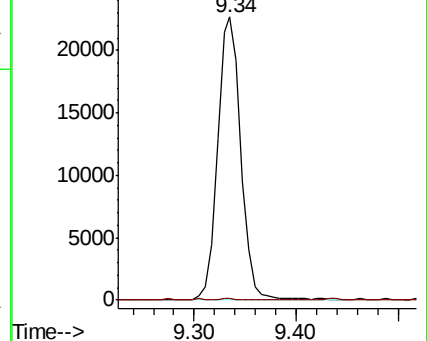
129 100

127 0.3 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.632 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

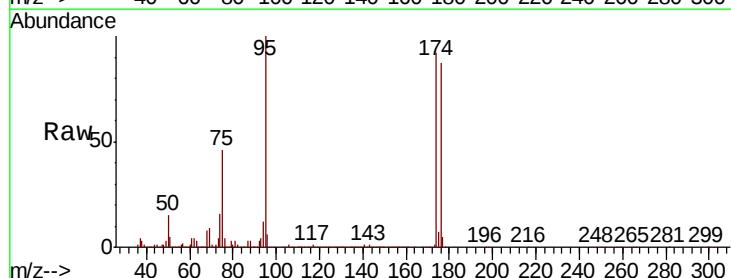
Tgt Ion: 95 Resp: 415622

Ion Ratio Lower Upper

95 100

174 88.1 0.0 182.2

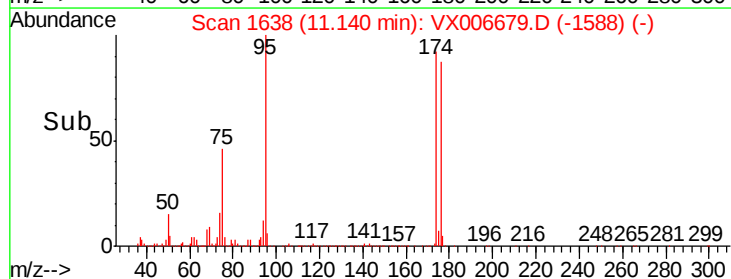
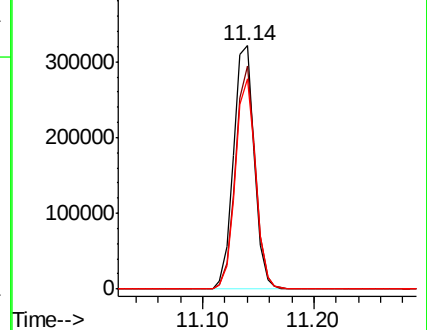
176 84.6 0.0 178.8

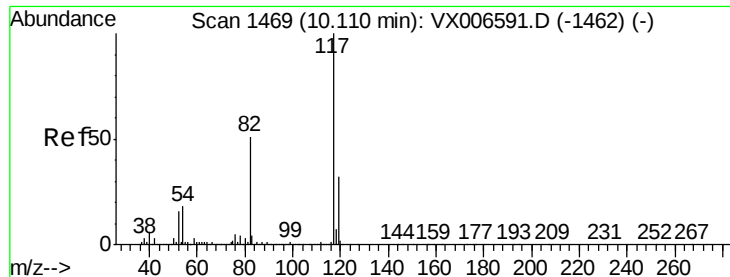


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

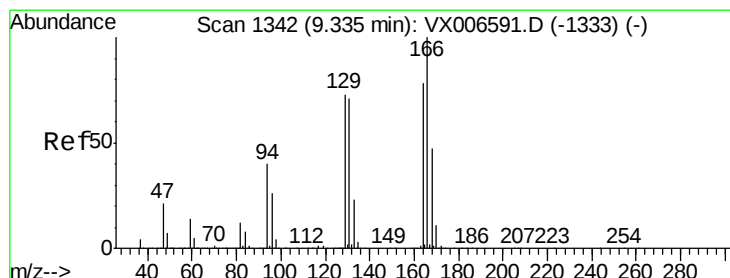
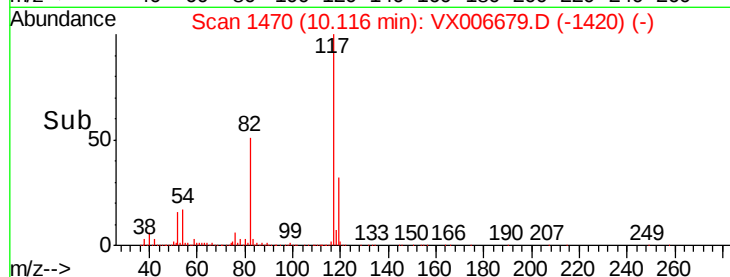
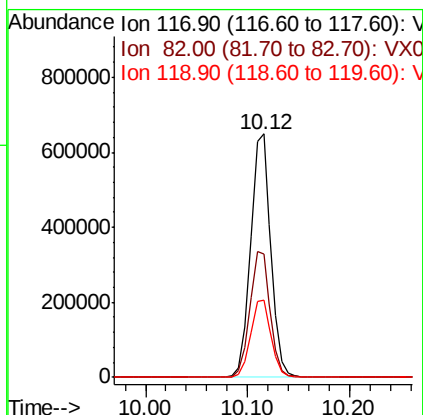
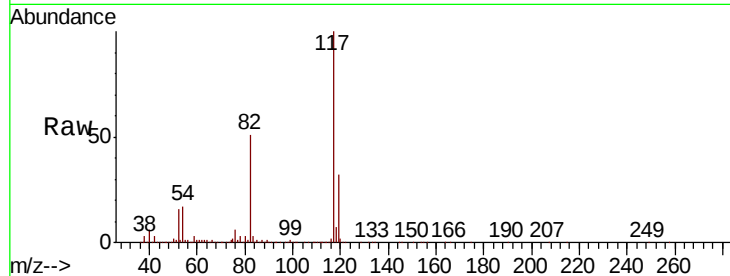




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

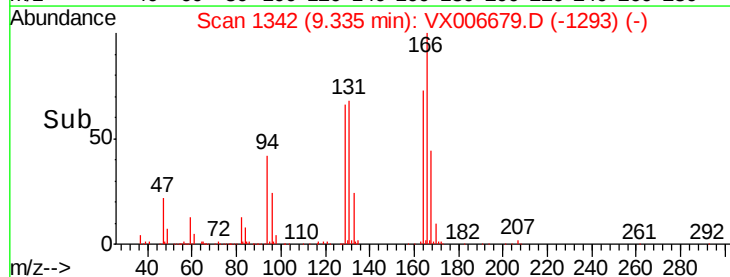
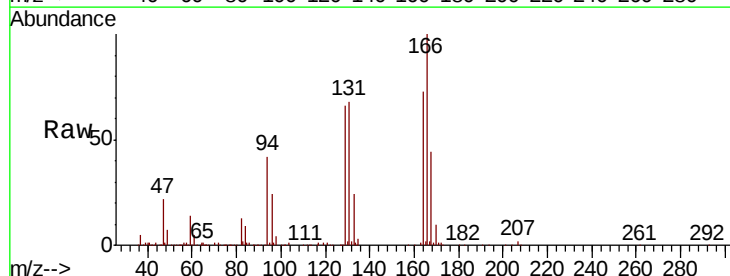
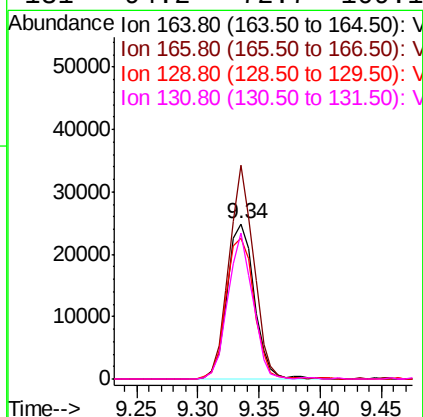
Instrument :
MSVOA_X
ClientSampleId :
974-MW-18(21.5)

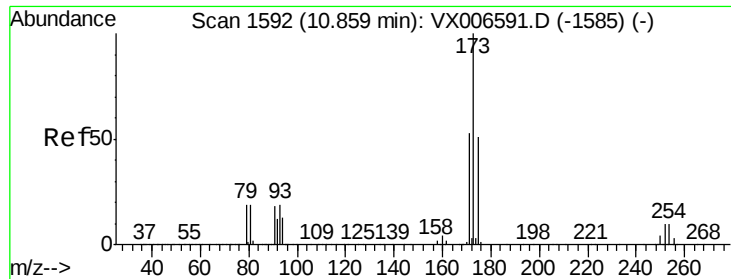
Tot Ion:117 Resp: 900531
Ion Ratio Lower Upper
117 100
82 50.9 41.0 61.6
119 32.0 25.4 38.0



#64
Tetrachloroethene
Concen: 5.380 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

Tgt Ion:164 Resp: 38361
Ion Ratio Lower Upper
164 100
166 137.5 102.5 153.7
129 91.1 75.1 112.7
131 94.2 72.7 109.1

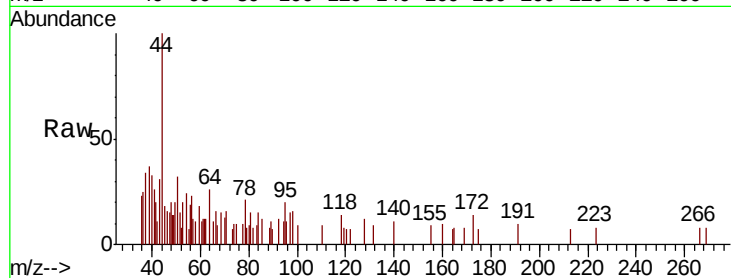




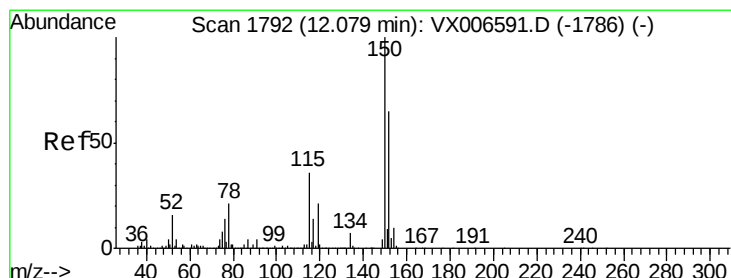
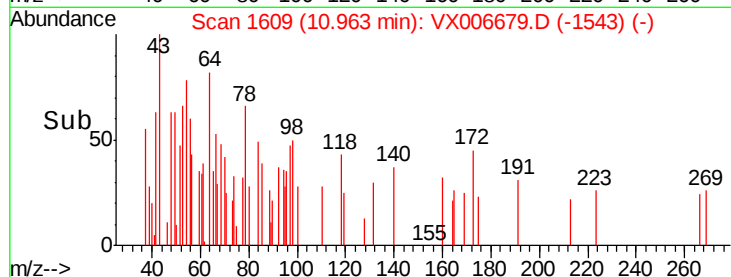
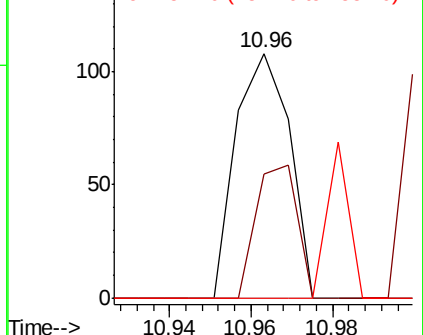
#71
Bromoform
Concen: 4.477 ug/l
RT: 10.96 min Scan# 1609
Delta R.T. 0.10 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

Instrument :
MSVOA_X
ClientSampled :
974-MW-18(21.5)

Tot Ion:173 Resp: 99
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 25.3 0.2 0.2#

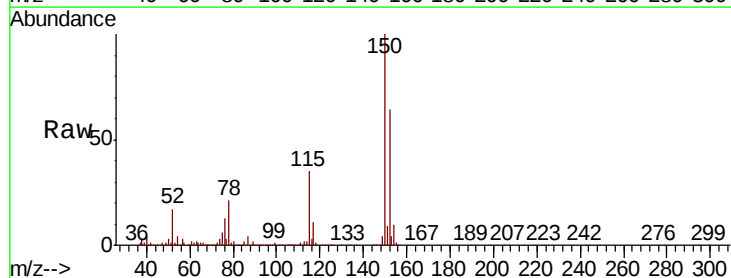


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

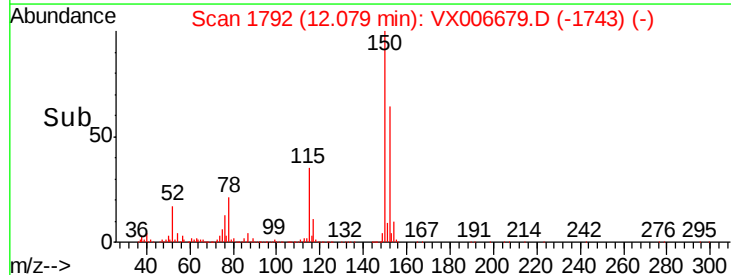
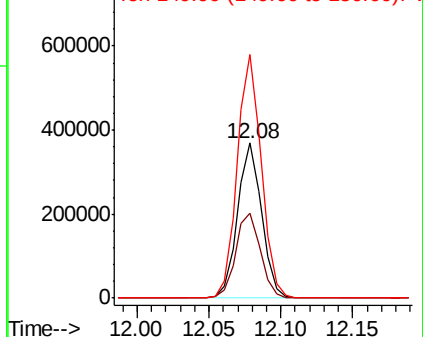


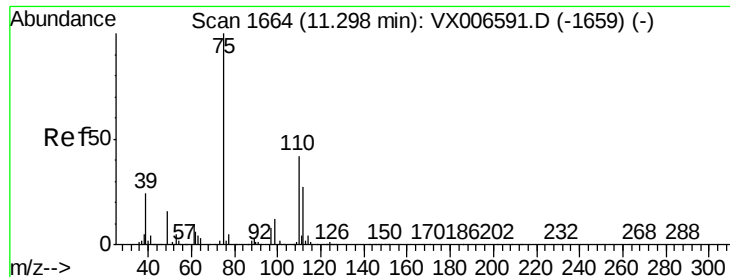
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006679.D
Acq: 20 Dec 2018 16:41

Tgt Ion:152 Resp: 429394
Ion Ratio Lower Upper
152 100
115 56.8 39.1 117.2
150 157.3 0.0 344.8



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





#76

1,2,3-Trichloropropane

Concen: 24.378 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

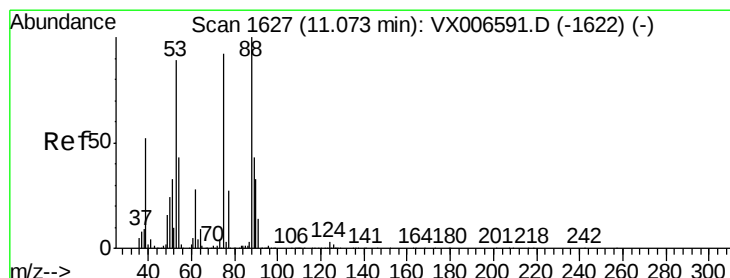
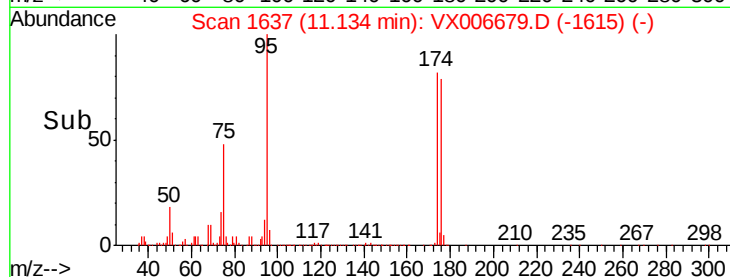
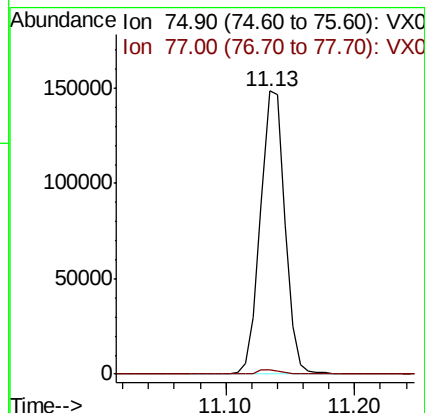
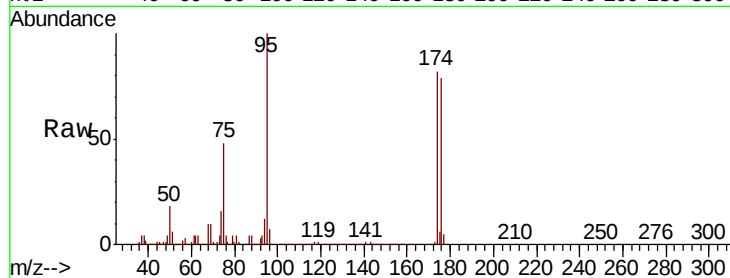
974-MW-18(21.5)

Tot Ion: 75 Resp: 194535

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.142 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

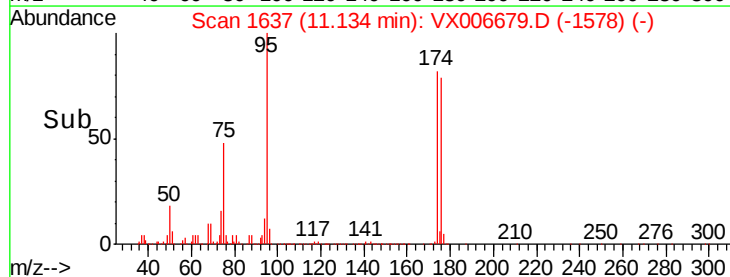
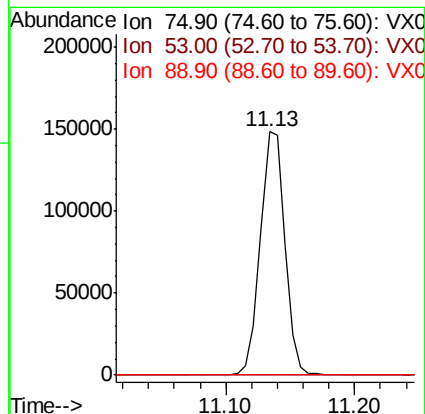
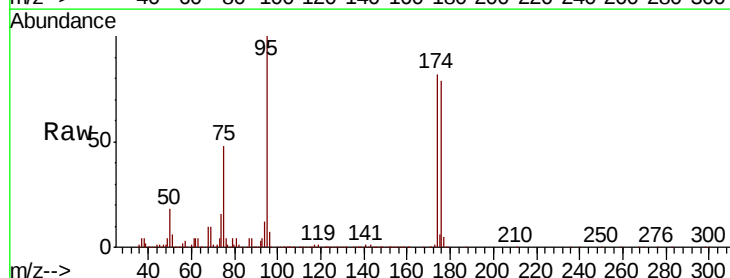
Tgt Ion: 75 Resp: 194535

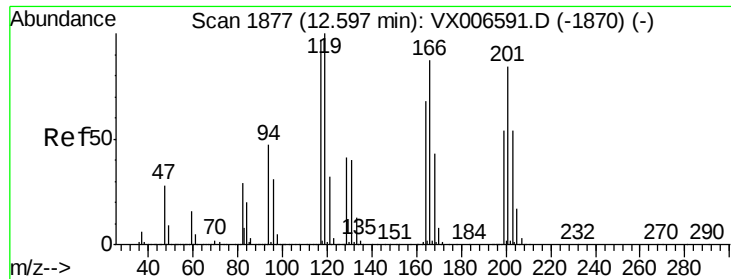
Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.304 ug/l

RT: 12.52 min Scan# 1864

Delta R.T. -0.08 min

Lab File: VX006679.D

Acq: 20 Dec 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

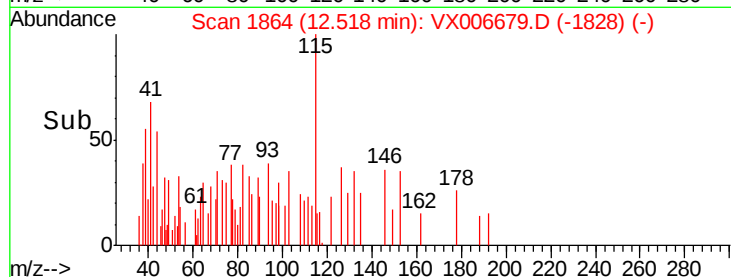
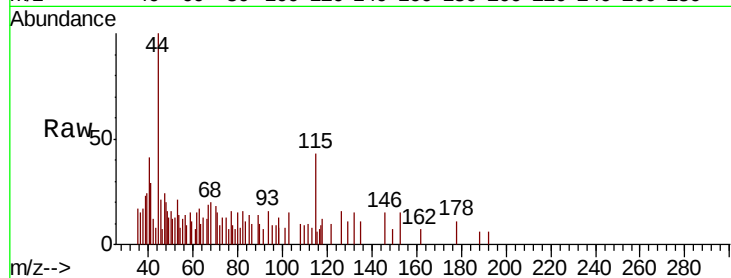
974-MW-18(21.5)

Tot Ion:117 Resp: 49

Ion Ratio Lower Upper

117 100

201 61.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

