

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009024.D
 Acq On : 17 Apr 2019 18:54
 Operator : JC/SP
 Sample : K2449-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW032-190415

Quant Time: Apr 18 01:39:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	260218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	416887	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	362402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152275	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	169750	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
35) Dibromofluoromethane	5.50	113	124566	46.56	ug/l	0.00
Spiked Amount			Recovery	=	93.12%	
50) Toluene-d8	8.71	98	514884	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	11.13	95	174616	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	

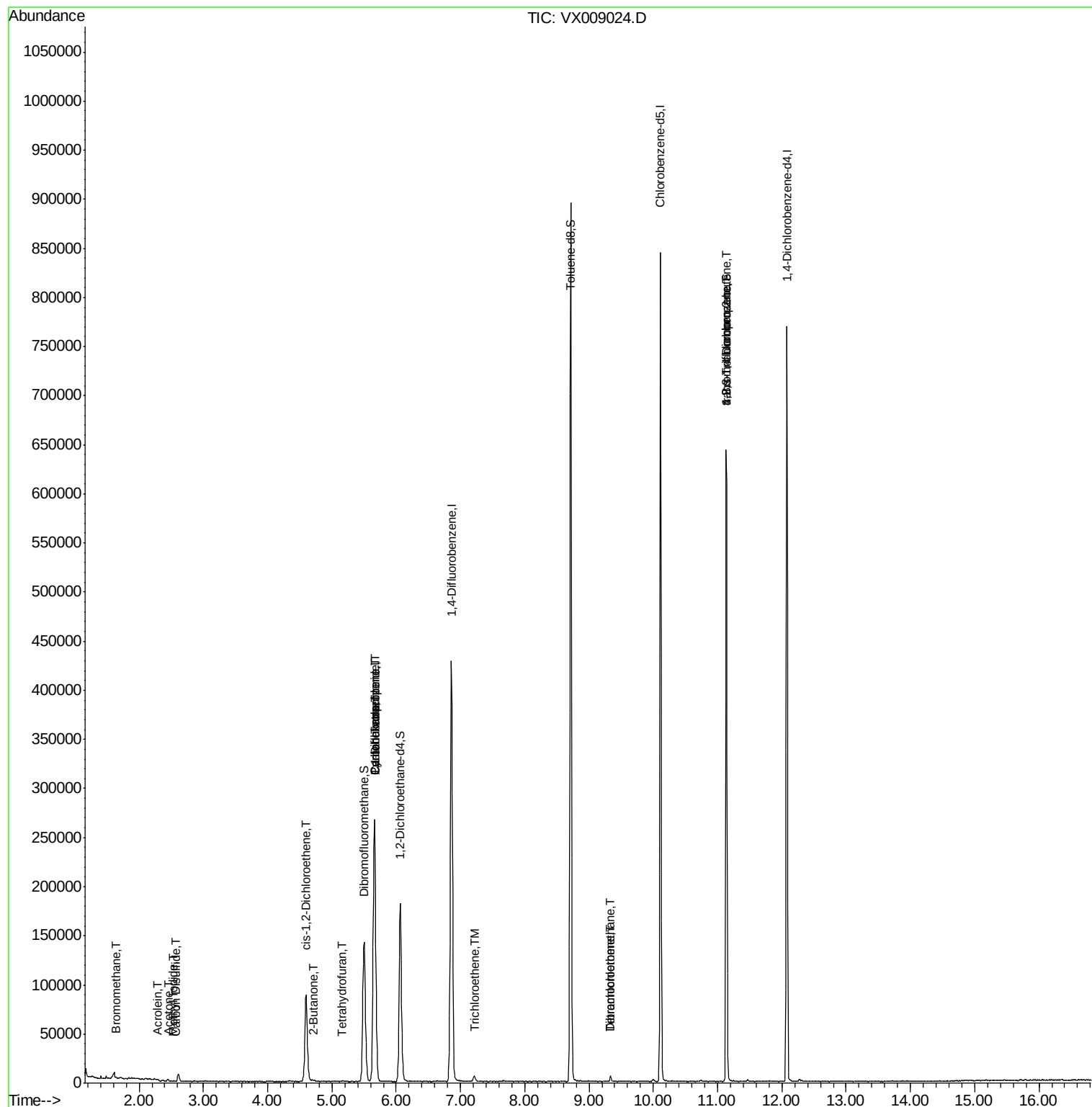
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	162	3.915	ug/l #	59
10) Methyl Iodide	2.53	142	20	4.421	ug/l #	42
13) Acrolein	2.29	56	142	0.202	ug/l #	80
16) Acetone	2.45	43	2236	1.176	ug/l	96
17) Carbon Disulfide	2.57	76	473	1.309	ug/l #	69
25) 2-Butanone	4.71	43	1678	0.552	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	54471	16.119	ug/l	92
28) Bromochloromethane	5.02	49	42	Below Cal	#	21
29) Tetrahydrofuran	5.15	42	1044	0.513	ug/l	95
31) Cyclohexane	5.66	56	5877	1.006	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20217	4.689	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24357	6.664	ug/l #	17
44) Trichloroethene	7.22	130	2106	0.676	ug/l	90
60) Dibromochloromethane	9.34	129	933	0.322	ug/l #	13
64) Tetrachloroethene	9.34	164	998	0.363	ug/l #	89
76) 1,2,3-Trichloropropane	11.13	75	87964	23.657	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	87964	60.735	ug/l #	11

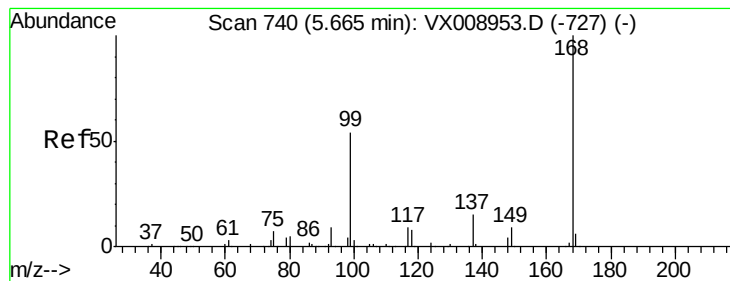
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

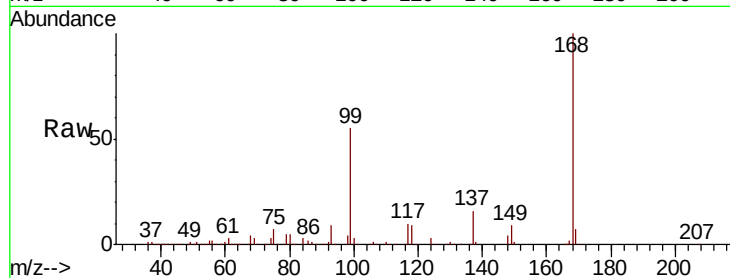
SS042MW032-190415

Tot Ion:168 Resp: 260218

Ion Ratio Lower Upper

168 100

99 55.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

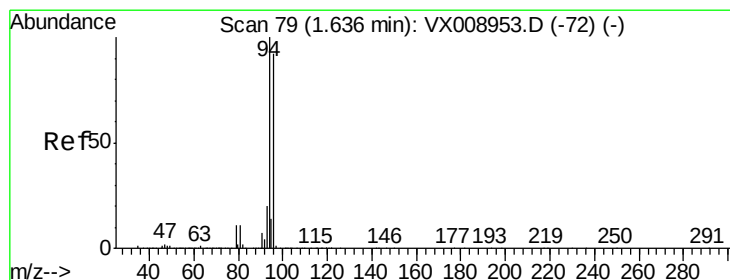
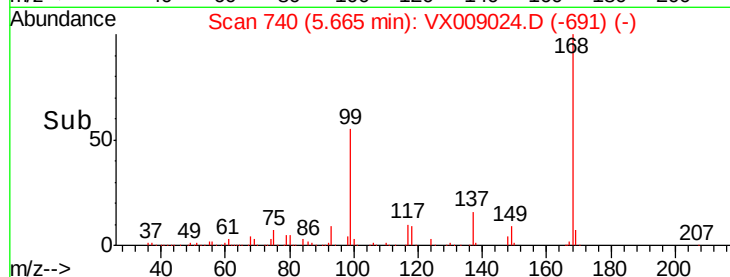
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 3.915 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009024.D

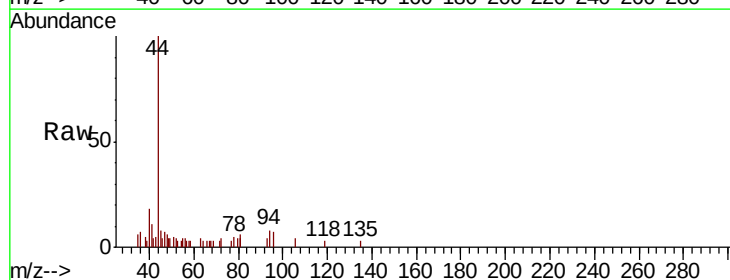
Acq: 17 Apr 2019 18:54

Tgt Ion: 94 Resp: 162

Ion Ratio Lower Upper

94 100

96 53.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

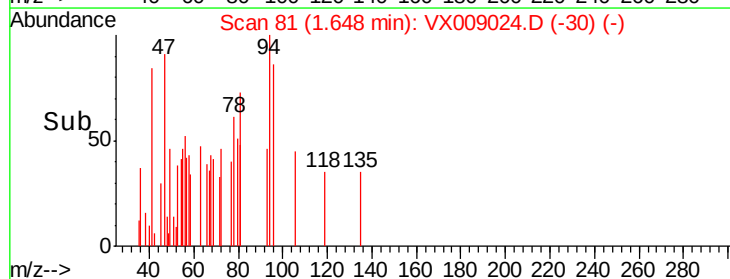
150

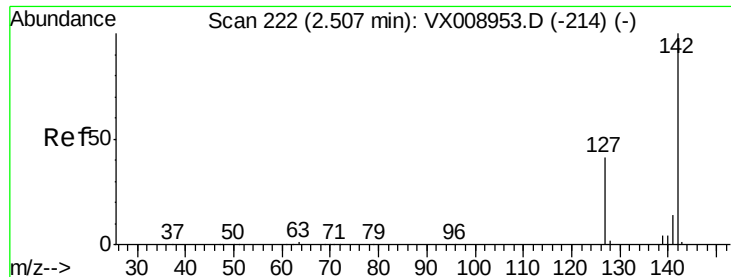
100

50

0

Time--> 1.62 1.64 1.66 1.68

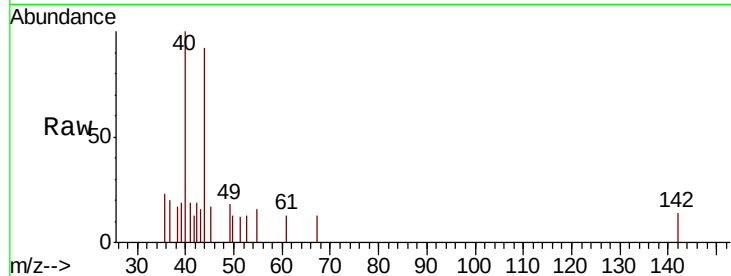




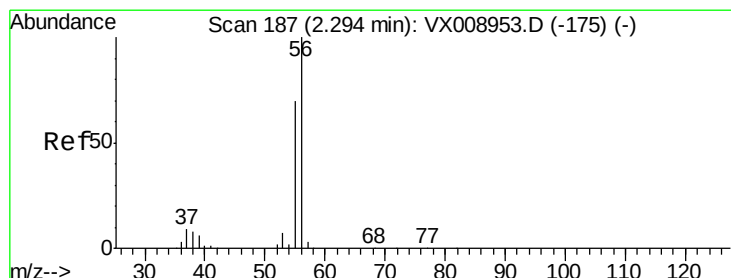
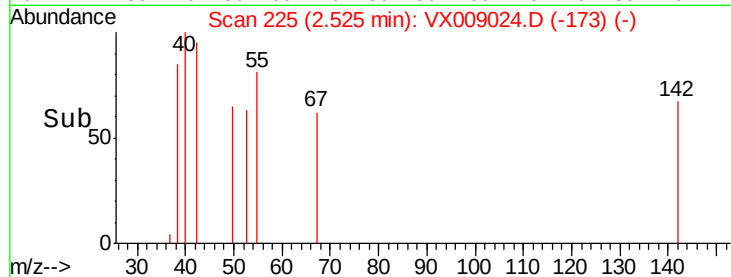
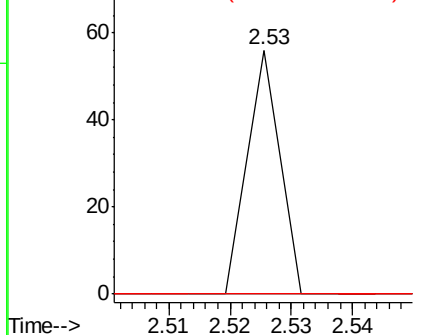
#10
Methvl Iodide
Concen: 4.421 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX009024.D
Acq: 17 Apr 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
SS042MW032-190415

Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#

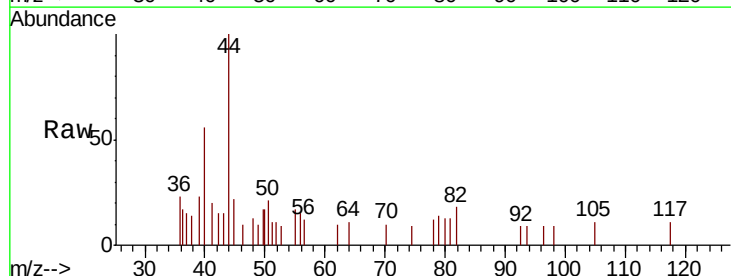


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

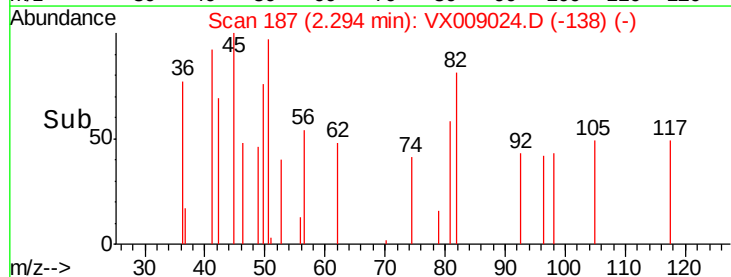
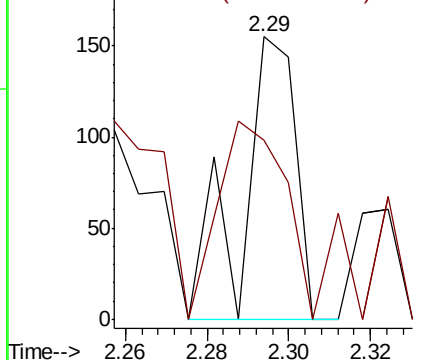


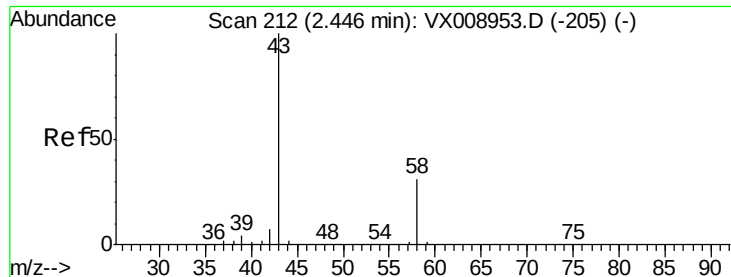
#13
Acrolein
Concen: 0.202 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009024.D
Acq: 17 Apr 2019 18:54

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 87.3 56.6 84.8#



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





#16

Acetone

Concen: 1.176 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

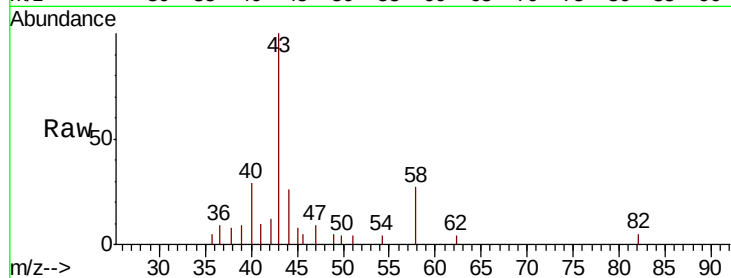
SS042MW032-190415

Tot Ion: 43 Resp: 2236

Ion Ratio Lower Upper

43 100

58 28.7 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

1500

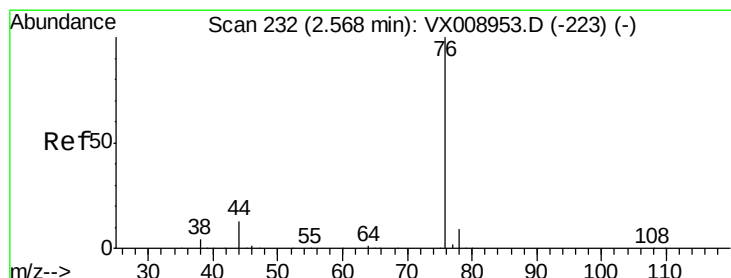
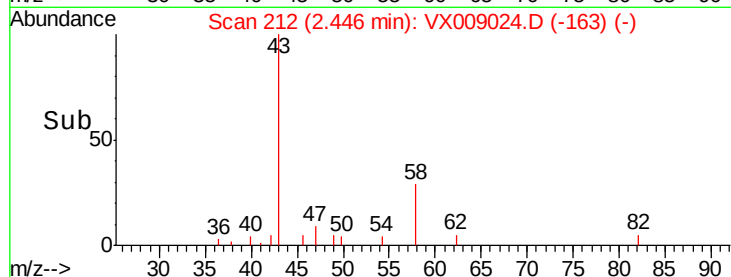
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 1.309 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009024.D

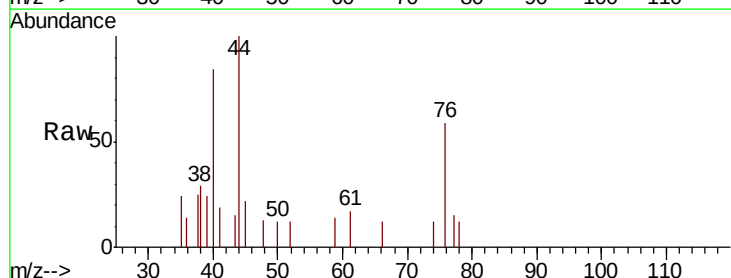
Acq: 17 Apr 2019 18:54

Tgt Ion: 76 Resp: 473

Ion Ratio Lower Upper

76 100

78 20.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

300

250

200

150

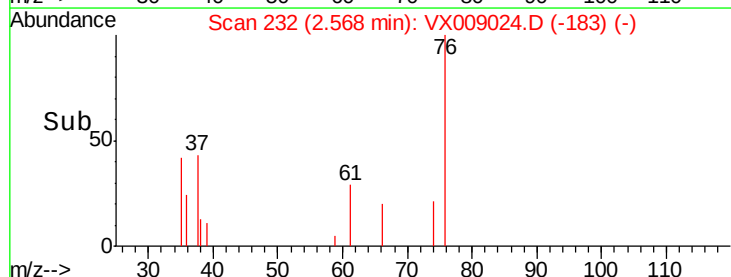
100

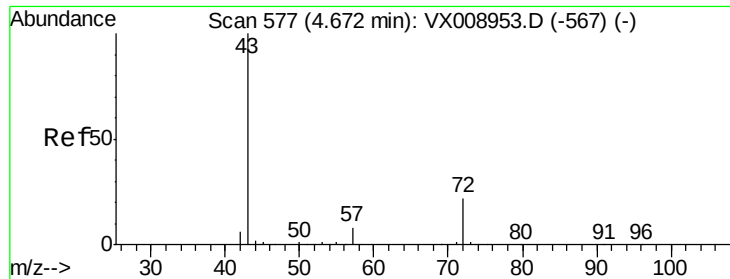
50

0

2.55 2.57 2.60

Time-->





#25

2-Butanone

Concen: 0.552 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.04 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

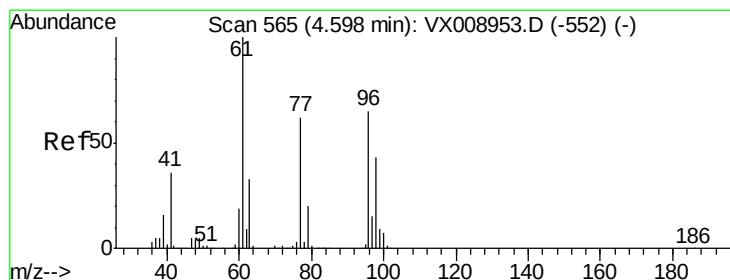
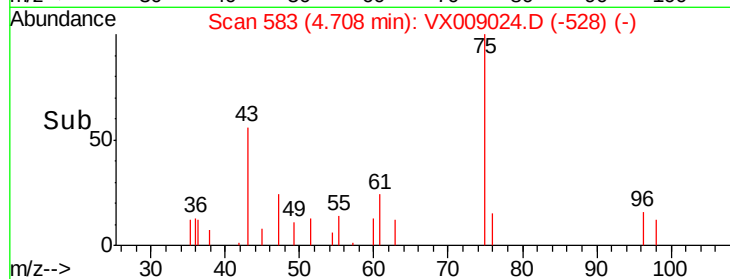
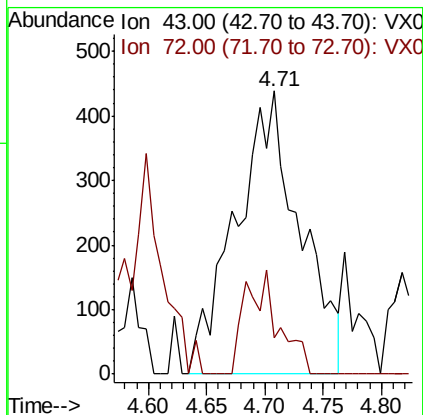
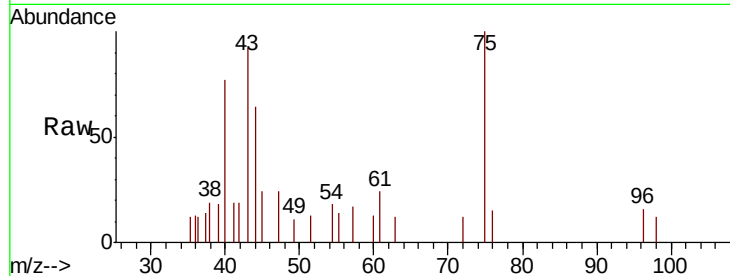
SS042MW032-190415

Tot Ion: 43 Resp: 1678

Ion Ratio Lower Upper

43 100

72 13.0 17.5 26.3#



#27

cis-1,2-Dichloroethene

Concen: 16.119 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

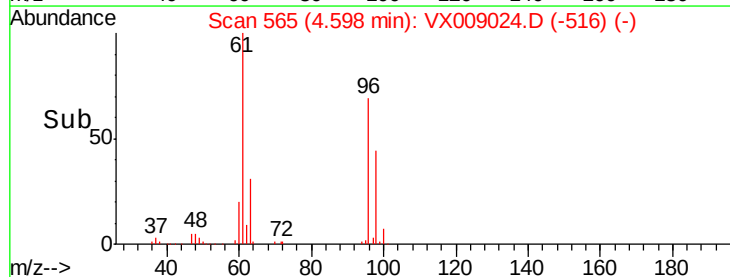
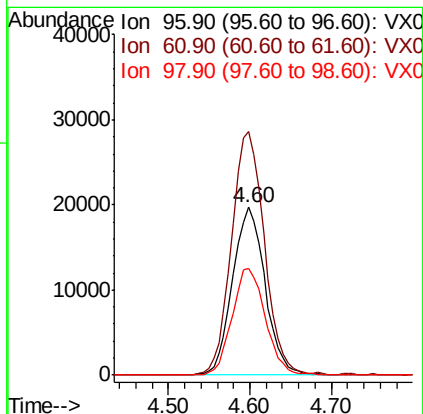
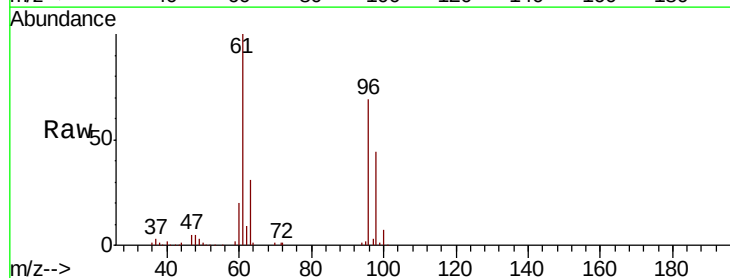
Tgt Ion: 96 Resp: 54471

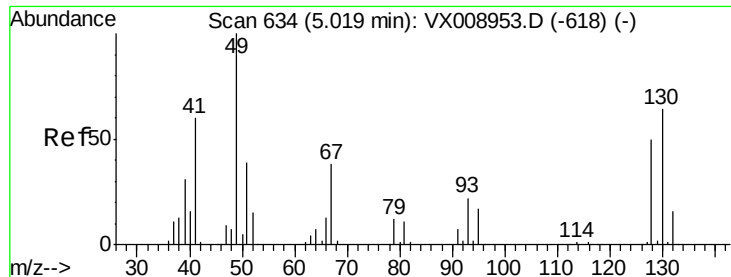
Ion Ratio Lower Upper

96 100

61 146.8 0.0 322.0

98 64.8 0.0 128.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS042MW032-190415

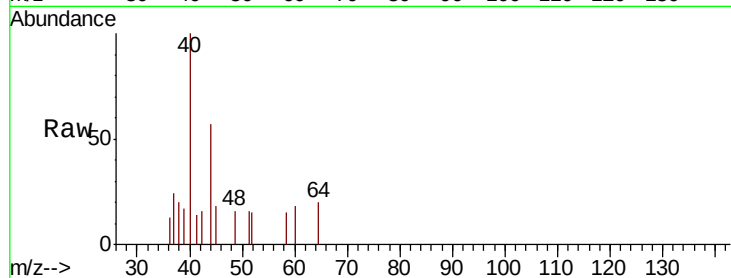
Tot Ion: 49 Resp: 42

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

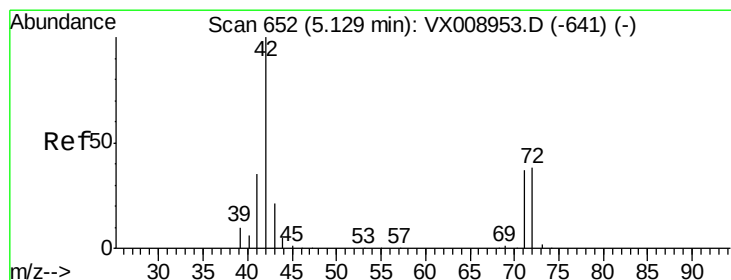
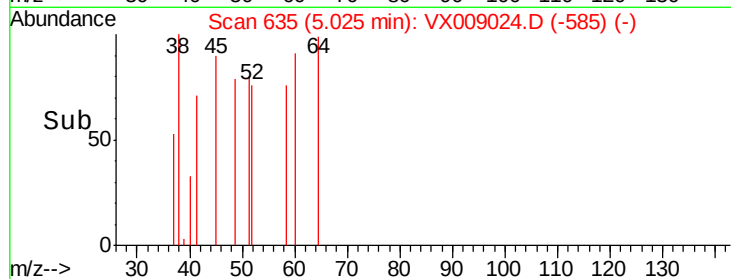
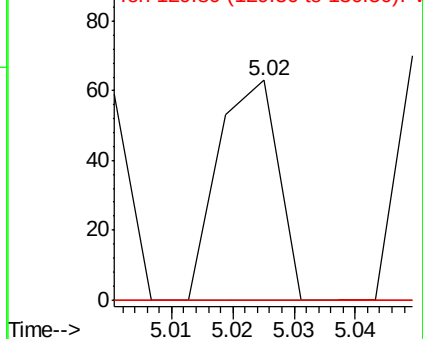
130 0.0 50.4 75.6#



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: 0.513 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

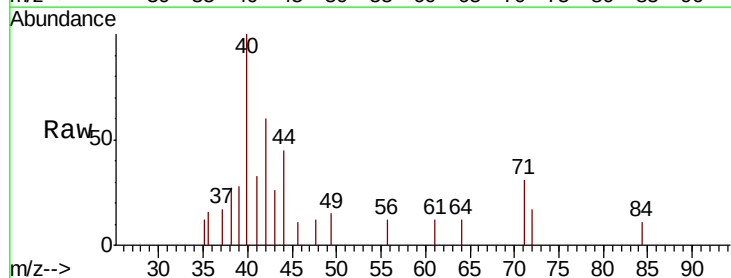
Tgt Ion: 42 Resp: 1044

Ion Ratio Lower Upper

42 100

72 38.1 30.6 45.8

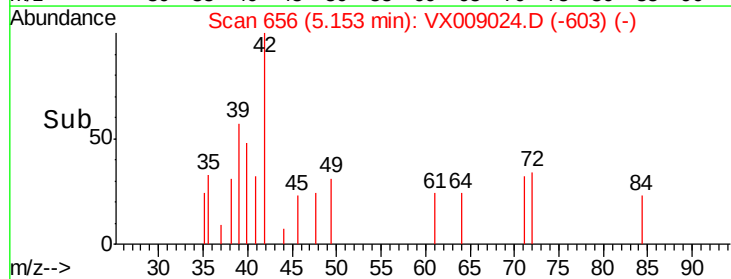
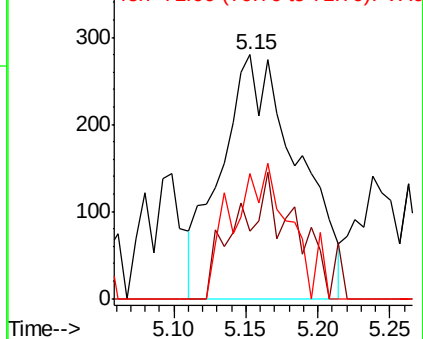
71 41.5 28.8 43.2

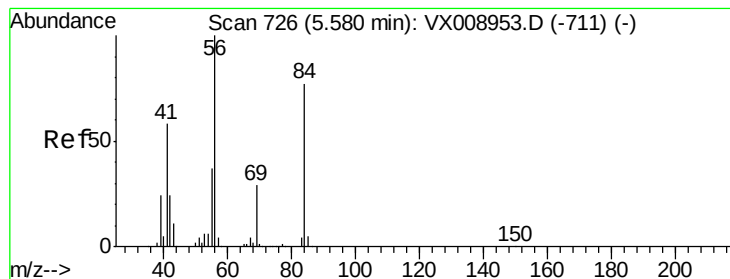


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.006 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009024.D

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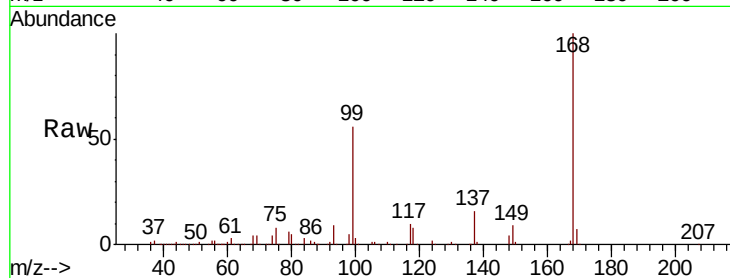
Tot Ion: 56 Resp: 5877

Ion Ratio Lower Upper

56 100

69 185.1 23.3 34.9#

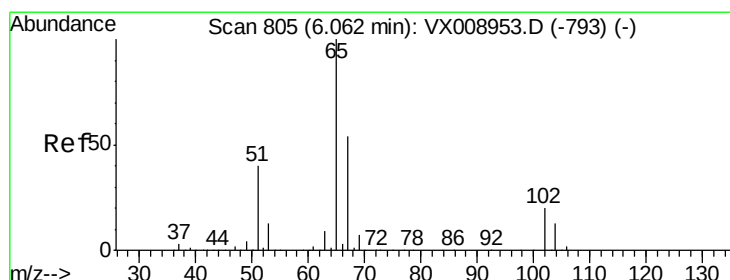
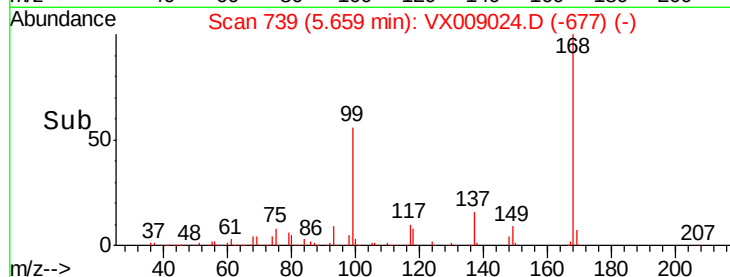
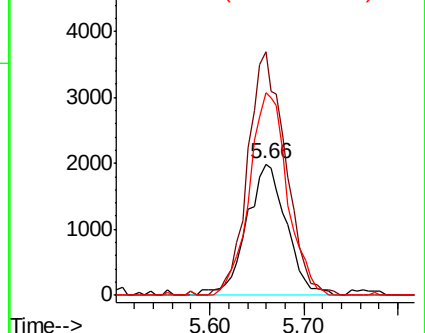
84 153.6 61.7 92.5#



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: 46.289 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009024.D

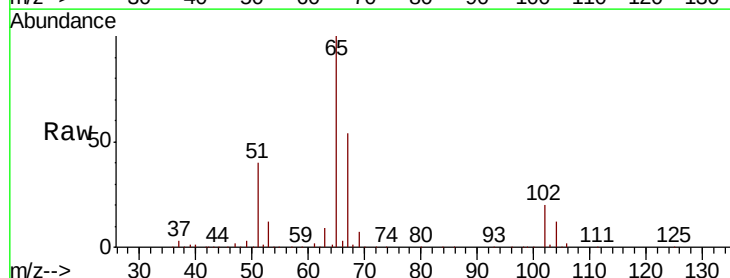
Acq: 17 Apr 2019 18:54

Tgt Ion: 65 Resp: 169750

Ion Ratio Lower Upper

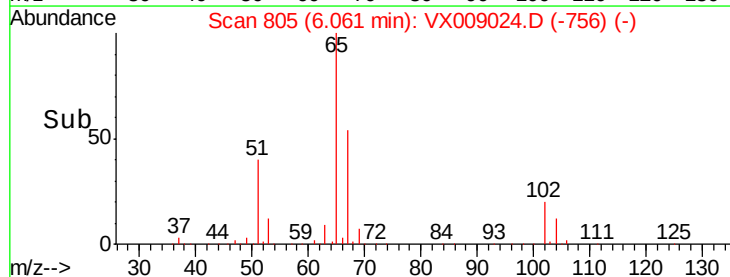
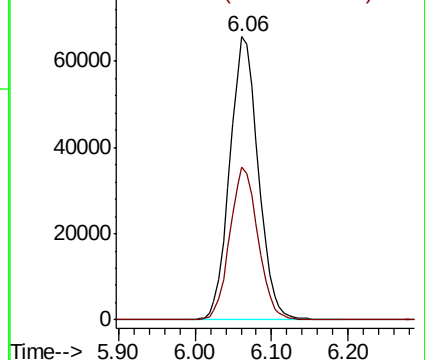
65 100

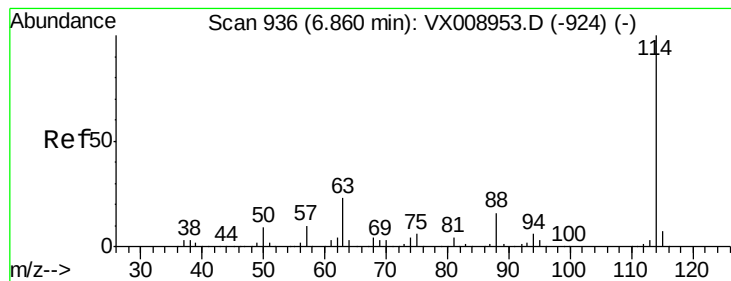
67 53.4 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

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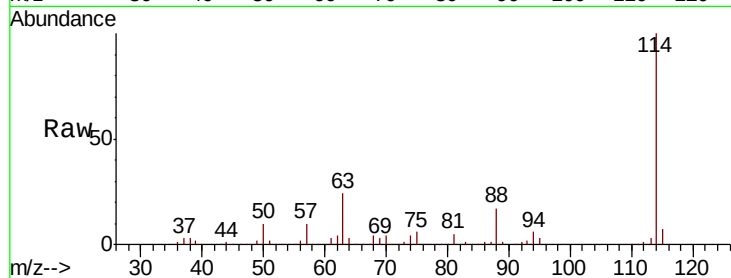
Tot Ion:114 Resp: 416887

Ion Ratio Lower Upper

114 100

63 24.3 0.0 46.0

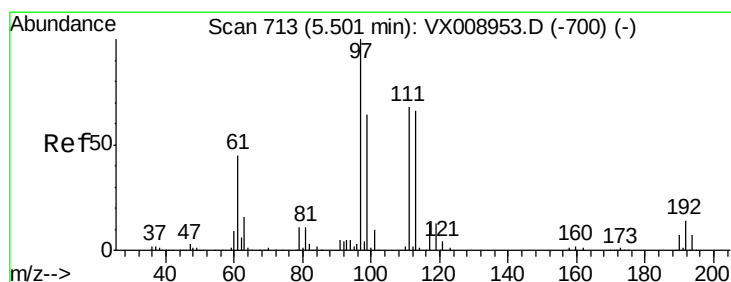
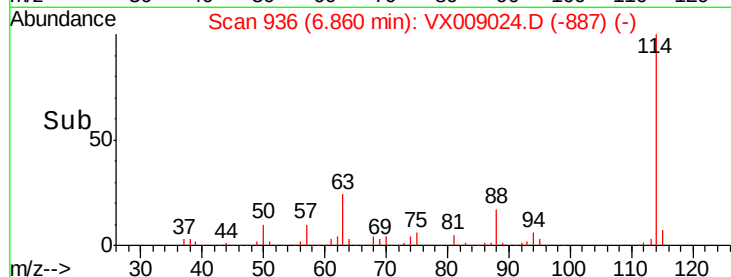
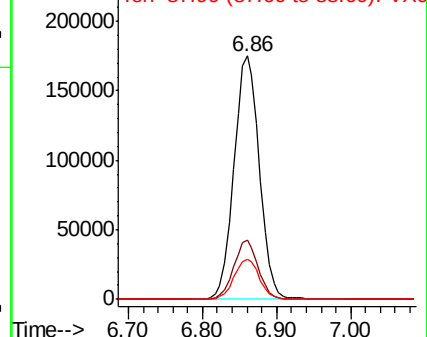
88 16.5 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.558 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

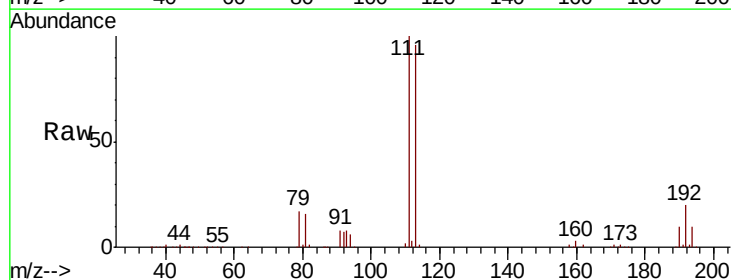
Tgt Ion:113 Resp: 124566

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

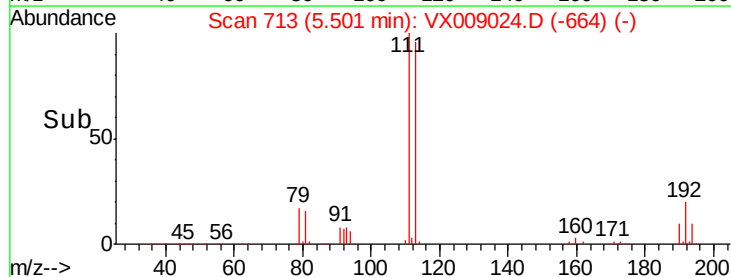
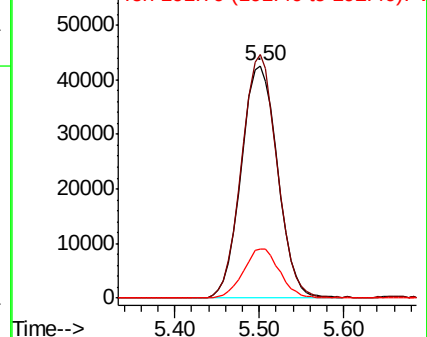
192 21.2 17.4 26.0

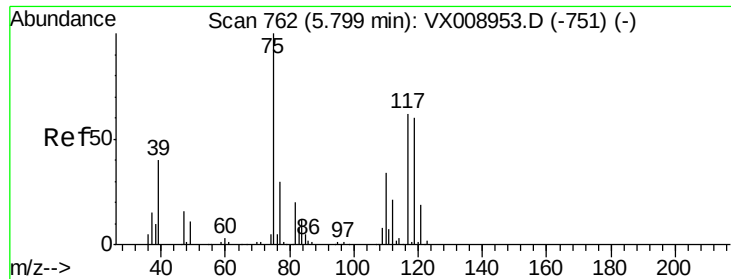


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

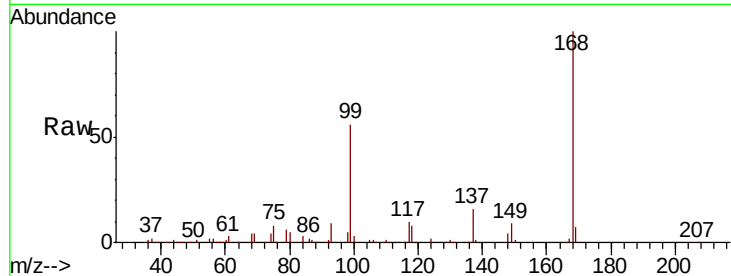




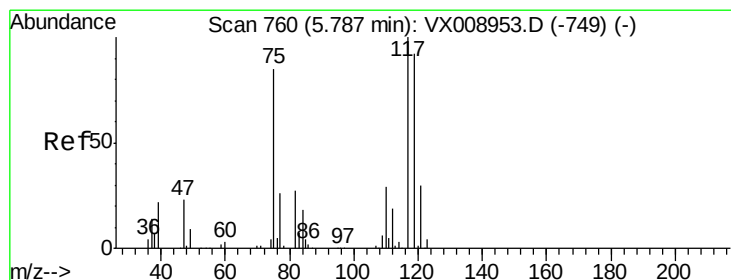
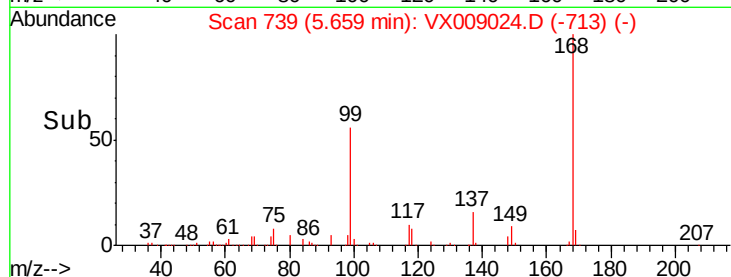
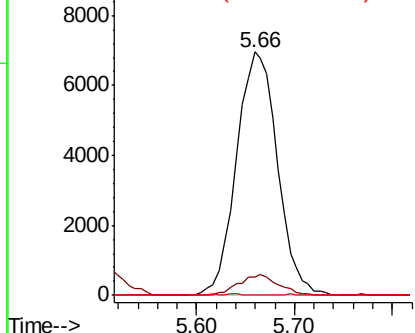
#36
 1,1-Dichloropropene
 Concen: 4.689 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009024.D
 Acq: 17 Apr 2019 18:54

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW032-190415

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.9	50.7#
77	0.0	25.0	37.4#

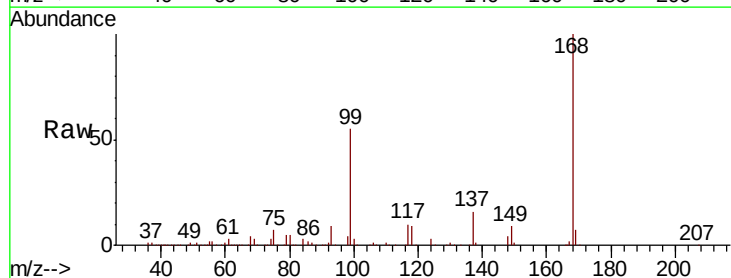


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

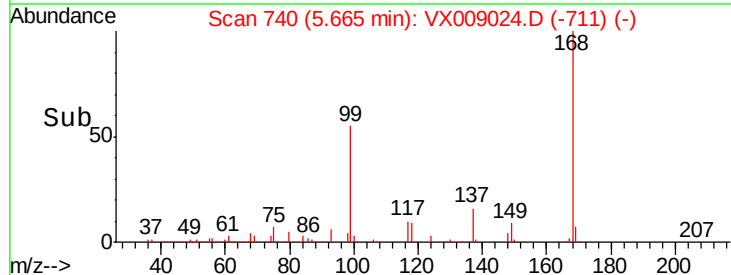
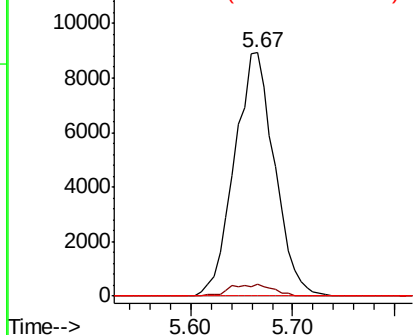


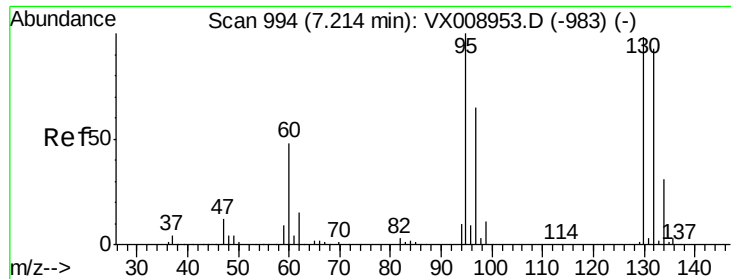
#38
 Carbon Tetrachloride
 Concen: 6.664 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009024.D
 Acq: 17 Apr 2019 18:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	73.8	110.8#
121	0.0	23.6	35.4#



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

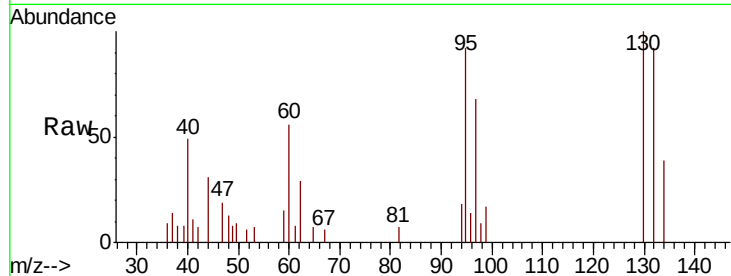




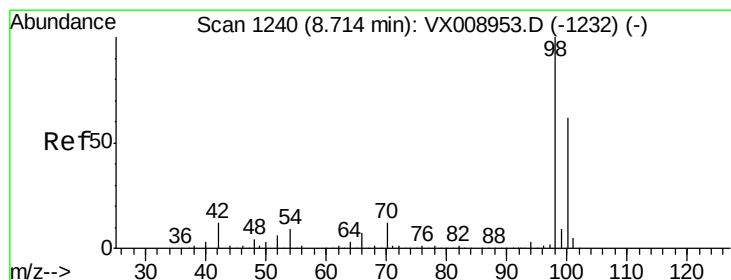
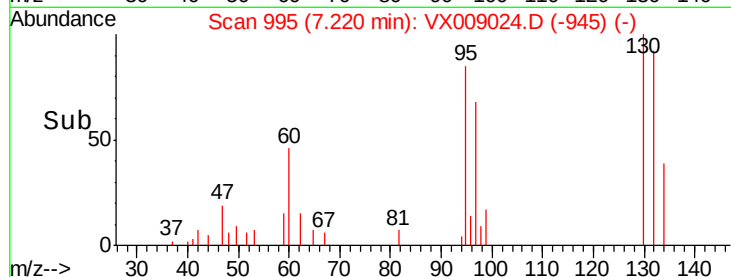
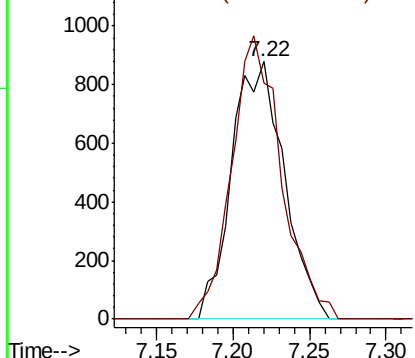
#44
 Trichloroethene
 Concen: 0.676 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX009024.D
 Acq: 17 Apr 2019 18:54

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW032-190415

Tot Ion:130 Resp: 2106
 Ion Ratio Lower Upper
 130 100
 95 91.7 0.0 203.2

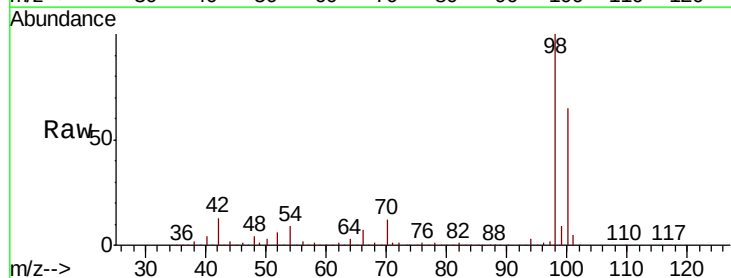


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

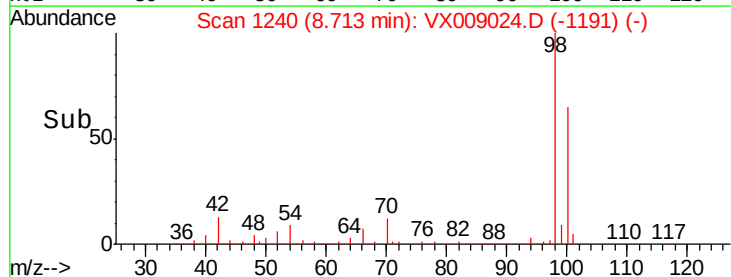
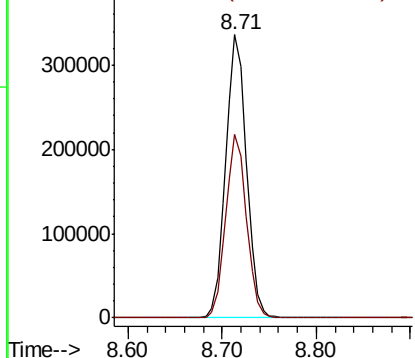


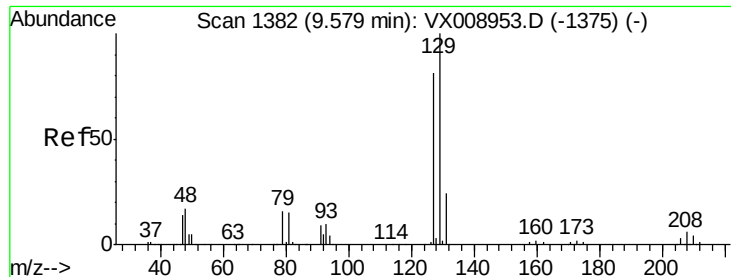
#50
 Toluene-d8
 Concen: 48.255 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009024.D
 Acq: 17 Apr 2019 18:54

Tgt Ion: 98 Resp: 514884
 Ion Ratio Lower Upper
 98 100
 100 64.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.322 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

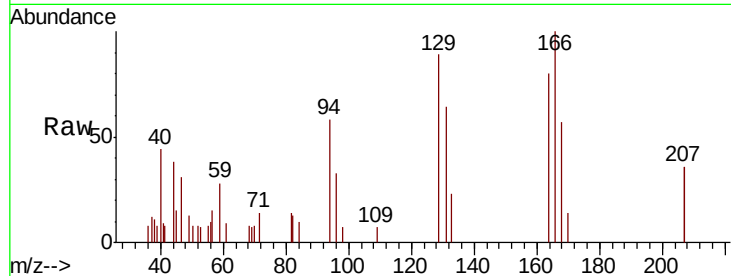
SS042MW032-190415

Tot Ion:129 Resp: 933

Ion Ratio Lower Upper

129 100

127 2.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

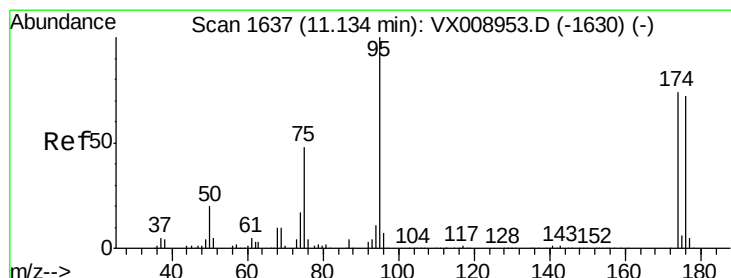
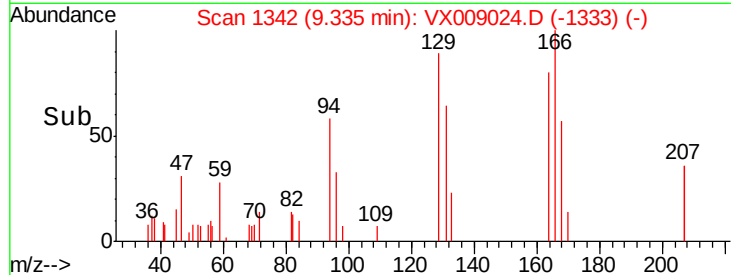
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.360 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

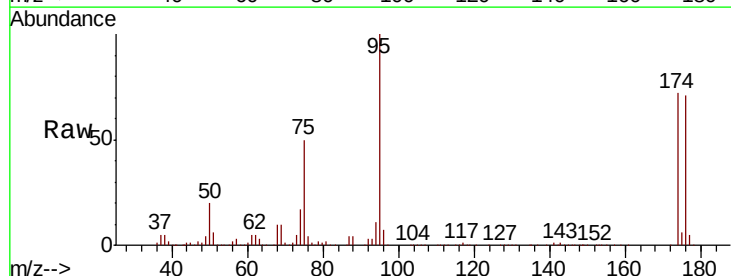
Tgt Ion: 95 Resp: 174616

Ion Ratio Lower Upper

95 100

174 78.2 0.0 159.6

176 76.7 0.0 154.8



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

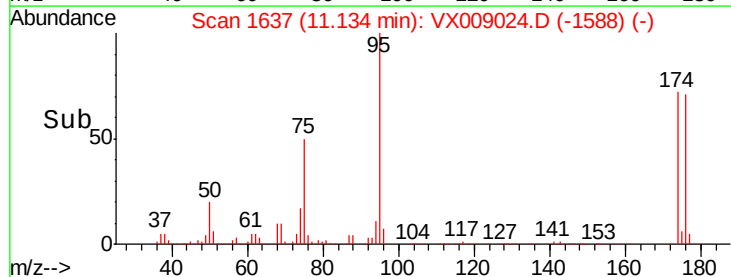
150000

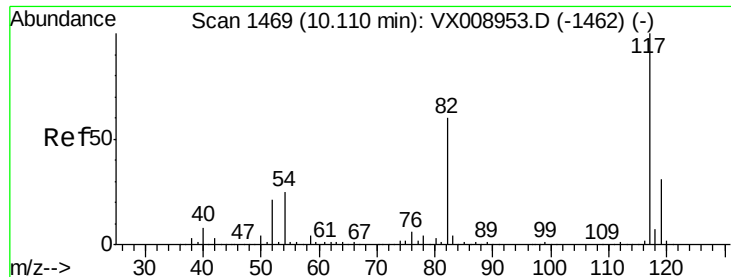
100000

50000

0

Time-->

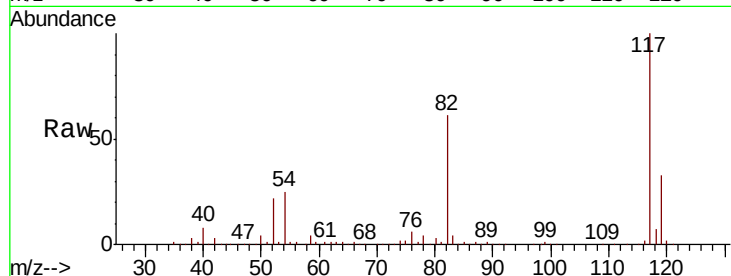




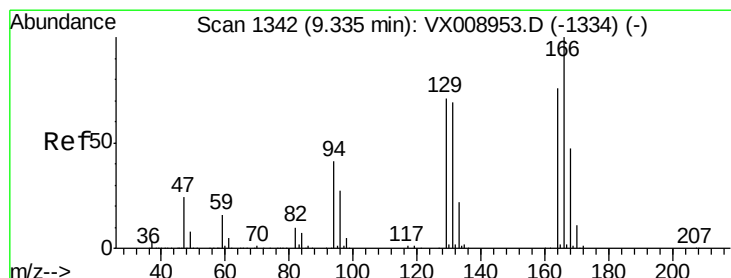
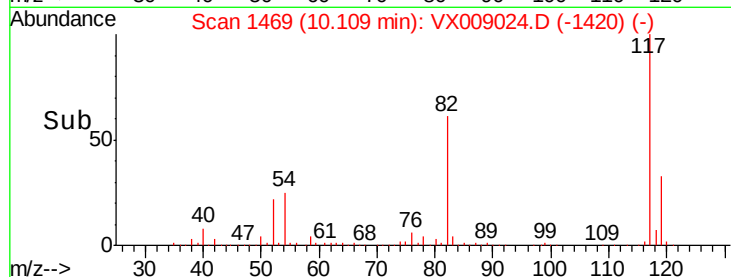
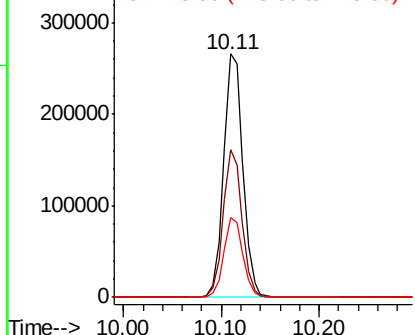
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009024.D
Acq: 17 Apr 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
SS042MW032-190415

Tot Ion:117 Resp: 362402
Ion Ratio Lower Upper
117 100
82 60.6 48.2 72.4
119 32.6 25.0 37.6

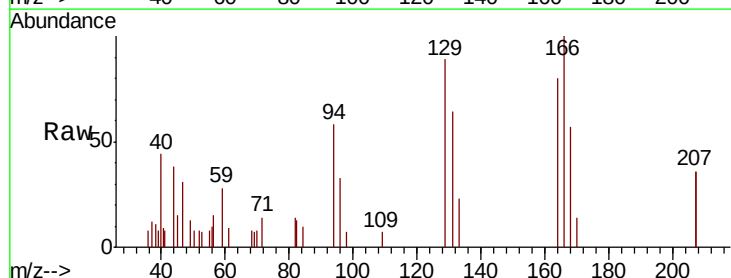


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

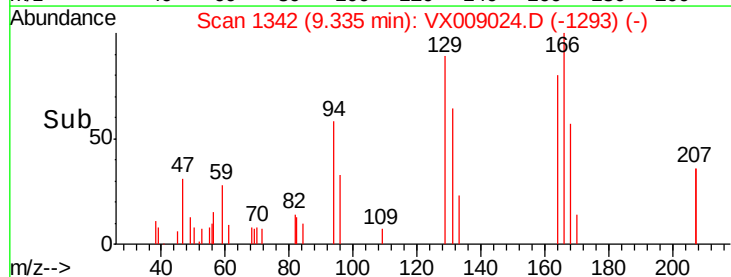
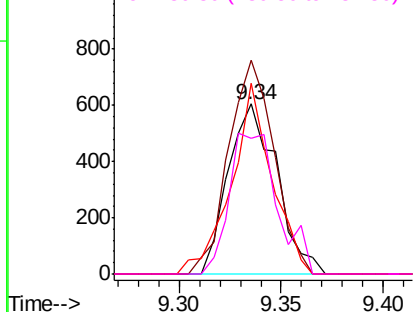


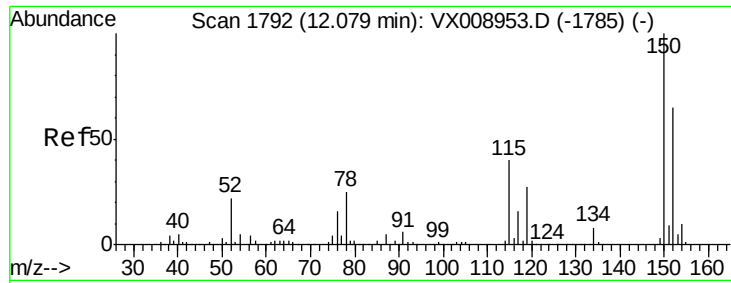
#64
Tetrachloroethene
Concen: 0.363 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009024.D
Acq: 17 Apr 2019 18:54

Tgt Ion:164 Resp: 998
Ion Ratio Lower Upper
164 100
166 125.6 105.0 157.4
129 112.4 74.2 111.4#
131 79.8 72.2 108.2



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS042MW032-190415

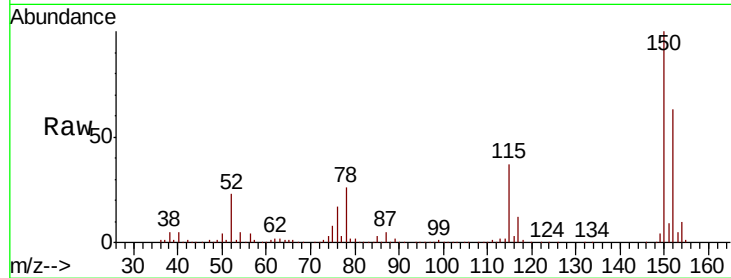
Tot Ion:152 Resp: 152275

Ion Ratio Lower Upper

152 100

115 59.5 41.4 124.2

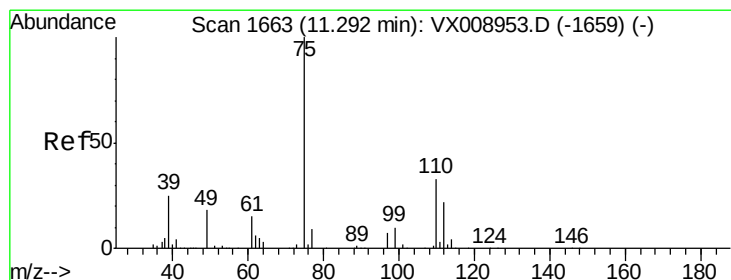
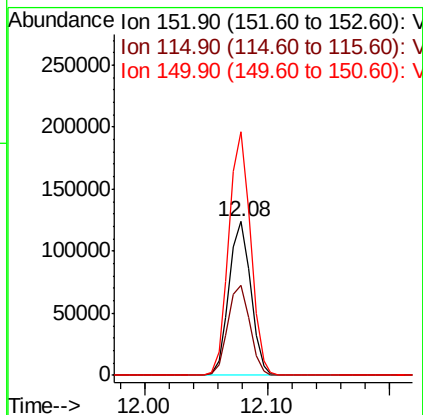
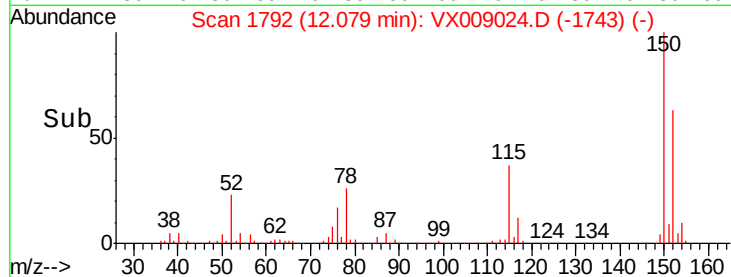
150 158.1 0.0 349.8



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: 23.657 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009024.D

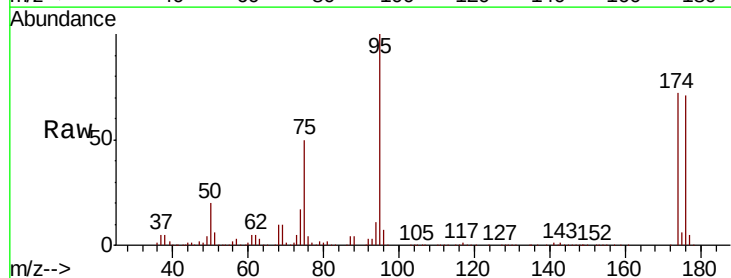
Acq: 17 Apr 2019 18:54

Tgt Ion: 75 Resp: 87964

Ion Ratio Lower Upper

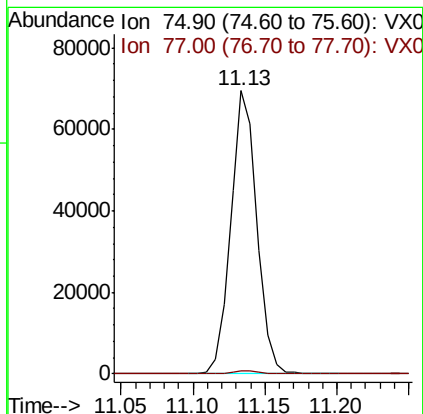
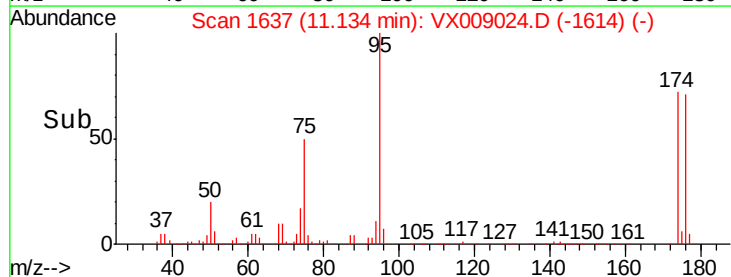
75 100

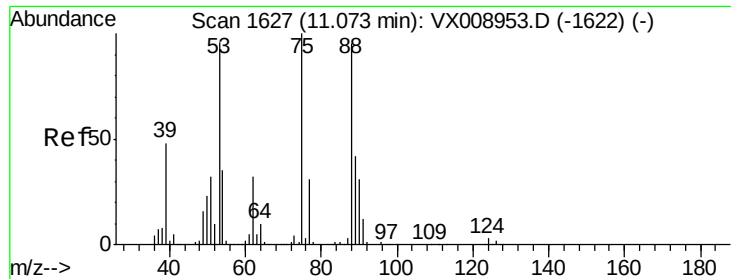
77 1.2 22.7 68.0#



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: 60.735 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009024.D

Acq: 17 Apr 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS042MW032-190415

Tot Ion: 75 Resp: 87964

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

