

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009020.D
 Acq On : 17 Apr 2019 17:20
 Operator : JC/SP
 Sample : K2448-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006MW015-190415

Quant Time: Apr 18 01:38:38 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	259997	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	420231	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	361630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153226	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	173399	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
35) Dibromofluoromethane	5.50	113	126973	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
50) Toluene-d8	8.71	98	517126	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
62) 4-Bromofluorobenzene	11.13	95	172075	45.32	ug/l	0.00
Spiked Amount			Recovery	=	90.64%	

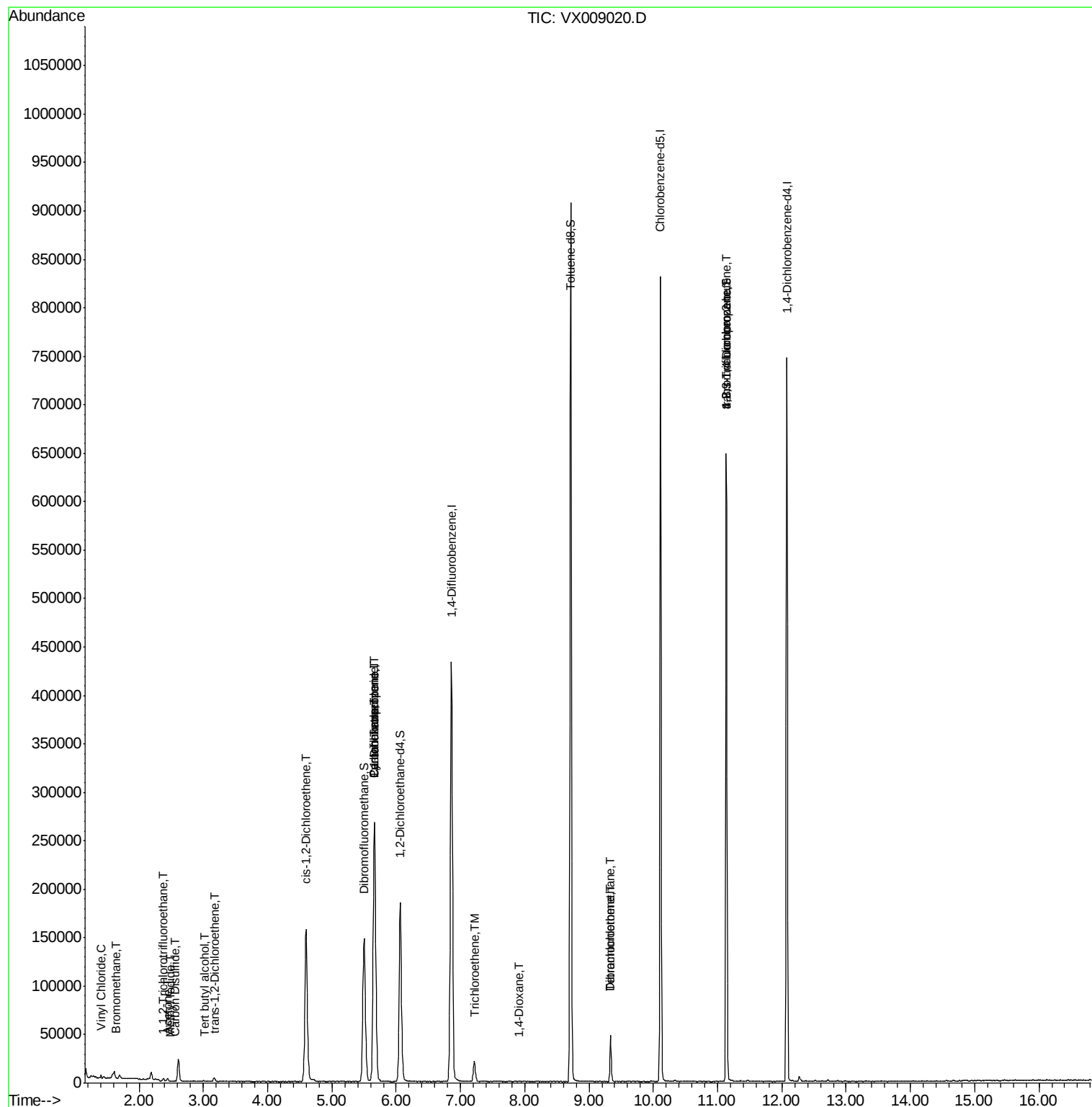
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1819	0.508	ug/l	97
5) Bromomethane	1.65	94	276	3.962	ug/l #	46
9) 1,1,2-Trichlorotrifluoroet	2.37	101	598	0.224	ug/l	94
10) Methyl Iodide	2.49	142	20	4.421	ug/l #	42
11) Tert butyl alcohol	3.02	59	665	0.818	ug/l #	72
16) Acetone	2.45	43	3119	1.641	ug/l #	82
17) Carbon Disulfide	2.57	76	660	1.331	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	1587	0.534	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	97357	28.834	ug/l	89
28) Bromochloromethane	5.03	49	19	Below Cal	#	21
31) Cyclohexane	5.66	56	5763	0.987	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	20730	4.770	ug/l #	49
38) Carbon Tetrachloride	5.66	117	24274	6.588	ug/l #	17
44) Trichloroethene	7.22	130	8416	2.679	ug/l	96
49) 1,4-Dioxane	7.90	88	22	0.264	ug/l #	1
60) Dibromochloromethane	9.34	129	8729	2.991	ug/l #	10
64) Tetrachloroethene	9.34	164	9060	3.298	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	88138	23.557	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	88138	60.477	ug/l #	11

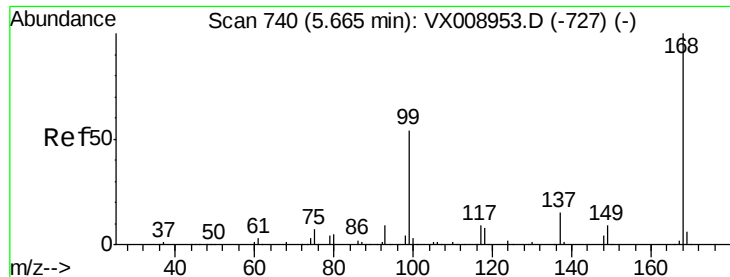
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041719\
Data File : VX009020.D
Acq On : 17 Apr 2019 17:20
Operator : JC/SP
Sample : K2448-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

Quant Time: Apr 18 01:38:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration

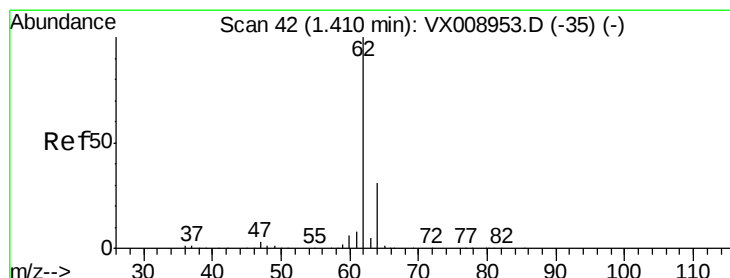
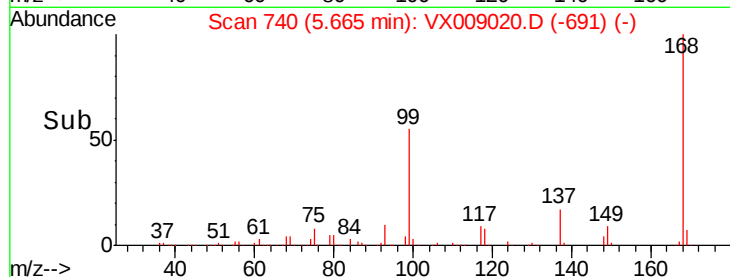
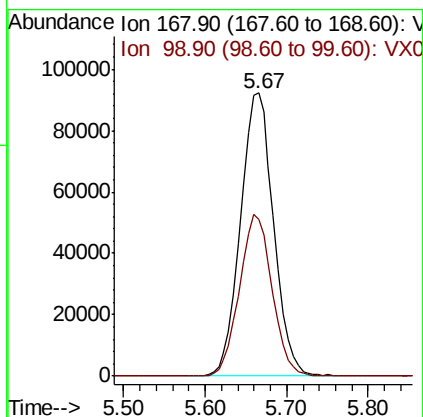
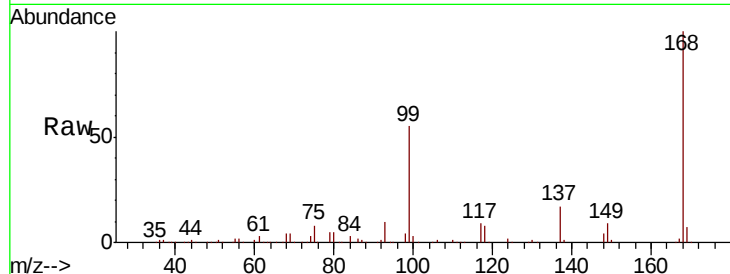




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.00 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

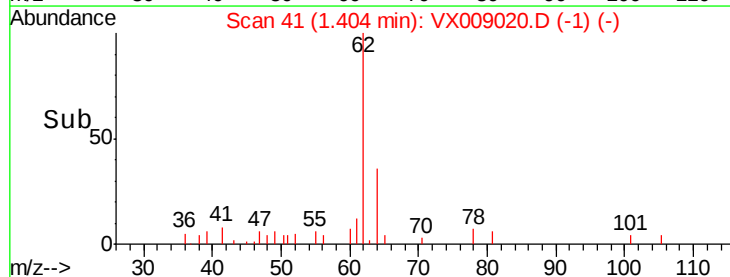
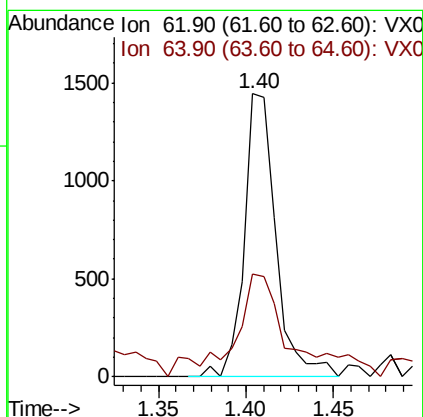
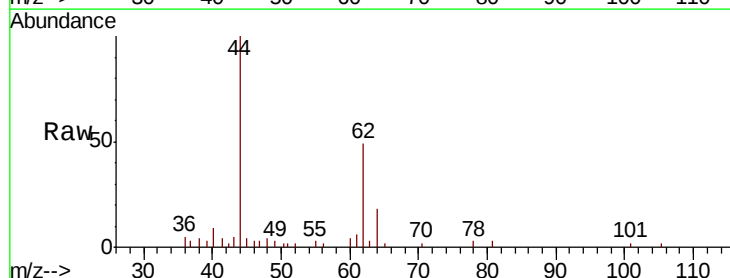
Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

Tot Ion:168 Resp: 259997
Ion Ratio Lower Upper
168 100
99 55.3 43.0 64.6



#4
Vinyl Chloride
Concen: 0.508 ug/l
RT: 1.40 min Scan# 41
Delta R.T. -0.01 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

Tgt Ion: 62 Resp: 1819
Ion Ratio Lower Upper
62 100
64 29.7 25.0 37.4





#5

Bromomethane

Concen: 3.962 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

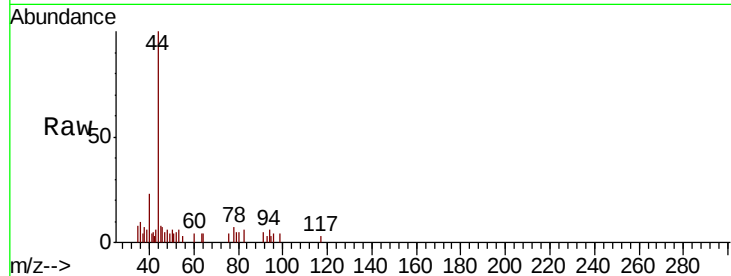
ST006MW015-190415

Tot Ion: 94 Resp: 276

Ion Ratio Lower Upper

94 100

96 41.0 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

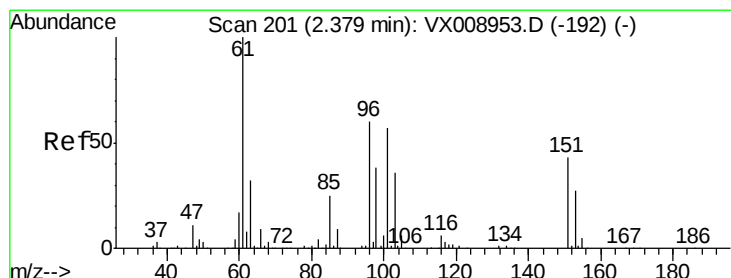
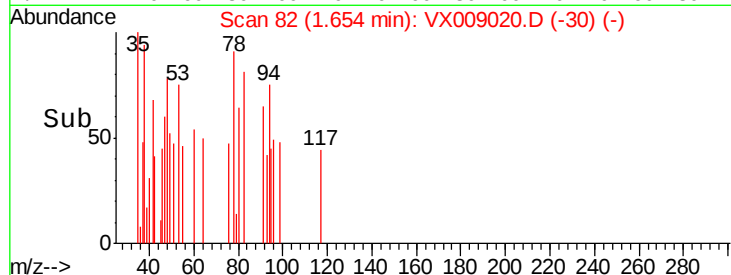
150

100

50

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.224 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.01 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

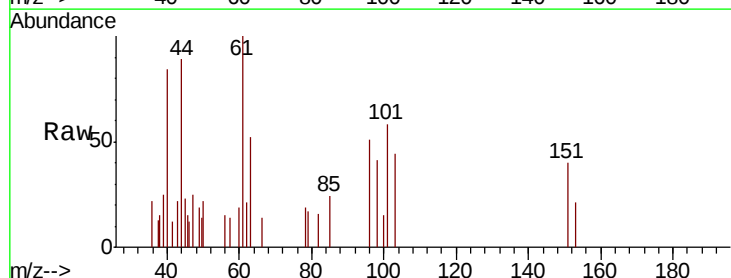
Tgt Ion:101 Resp: 598

Ion Ratio Lower Upper

101 100

85 44.5 35.7 53.5

151 70.9 62.7 94.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

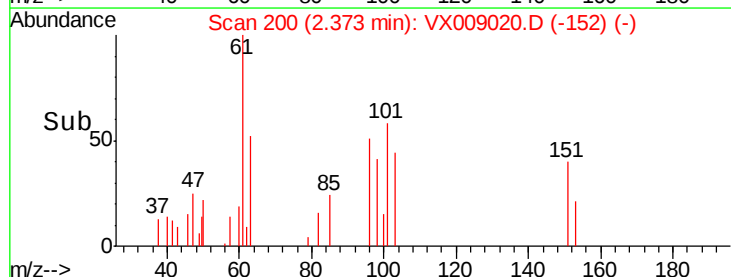
300

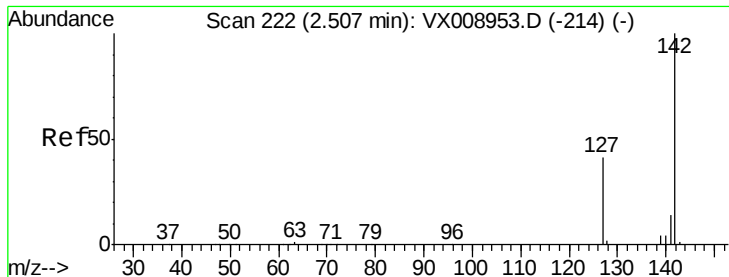
200

100

0

Time-->

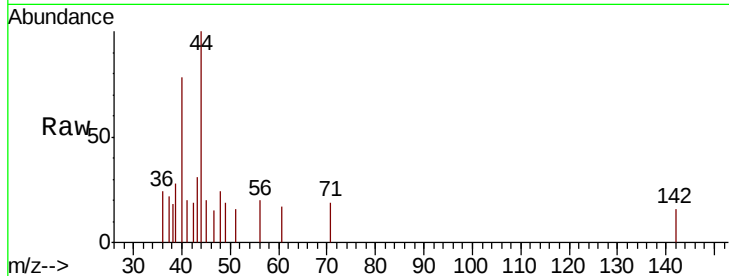




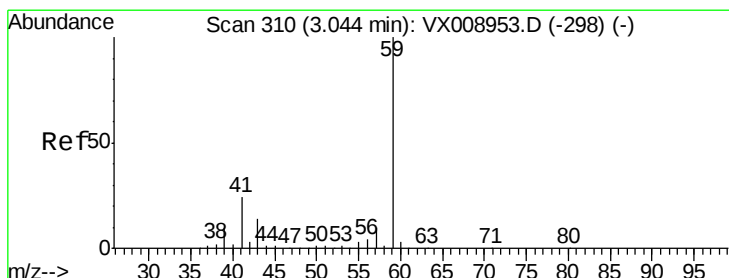
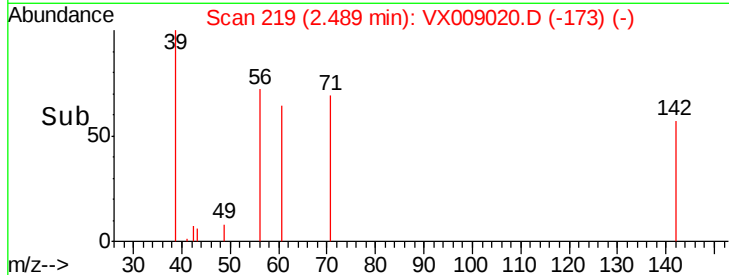
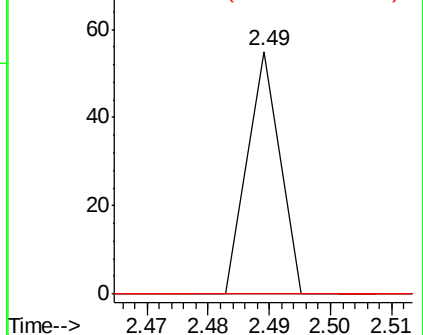
#10
Methyl Iodide
Concen: 4.421 ug/l
RT: 2.49 min Scan# 219
Delta R.T. -0.02 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

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#

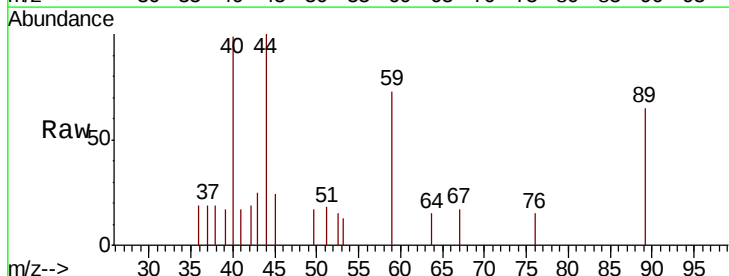


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

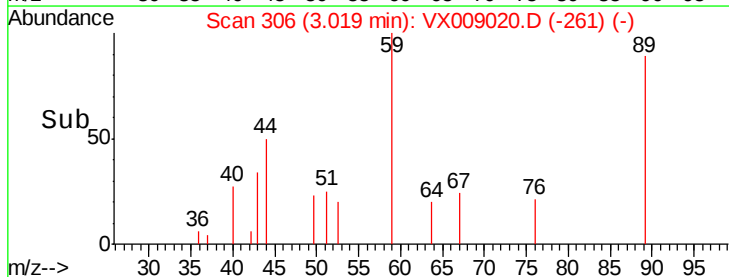
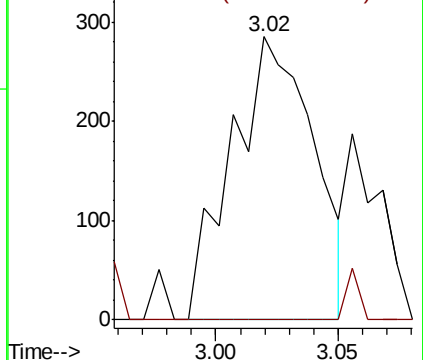


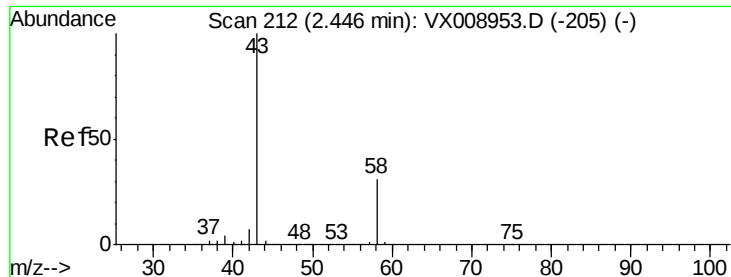
#11
Tert butyl alcohol
Concen: 0.818 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

Tgt Ion: 59 Resp: 665
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 1.641 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

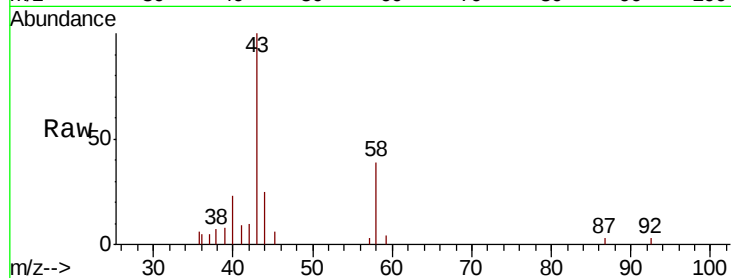
ST006MW015-190415

Tot Ion: 43 Resp: 3119

Ion Ratio Lower Upper

43 100

58 40.6 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

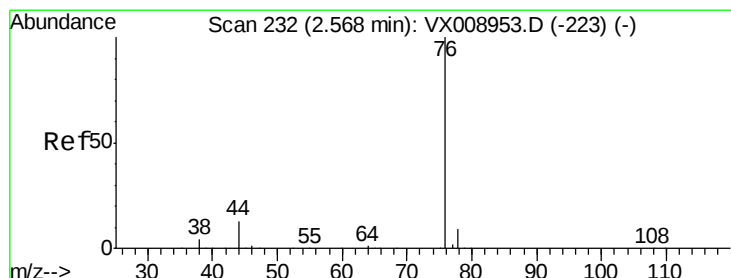
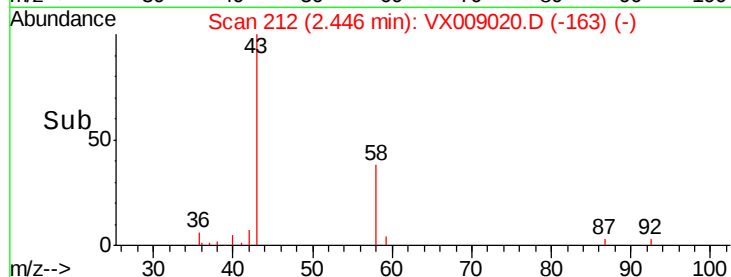
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 1.331 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009020.D

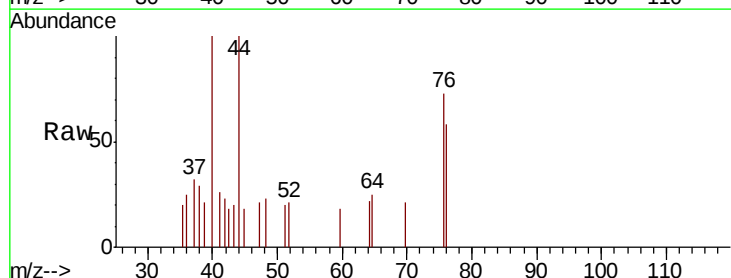
Acq: 17 Apr 2019 17:20

Tgt Ion: 76 Resp: 660

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

400

300

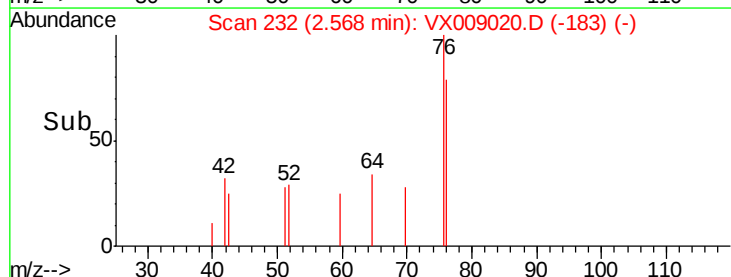
200

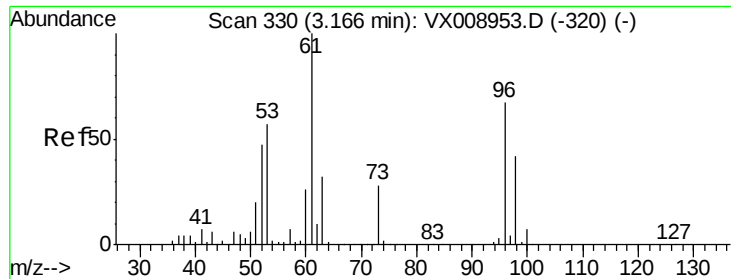
100

0

2.55 2.60

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.534 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

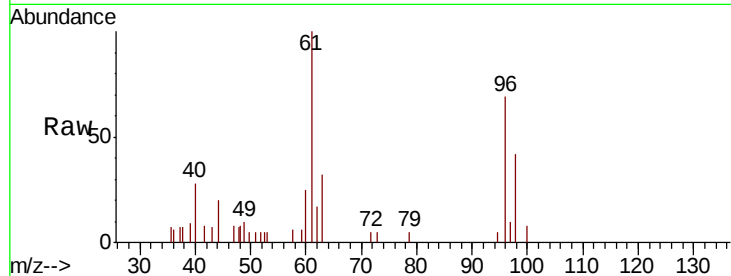
Tot Ion: 96 Resp: 1587

Ion Ratio Lower Upper

96 100

61 145.8 120.3 180.5

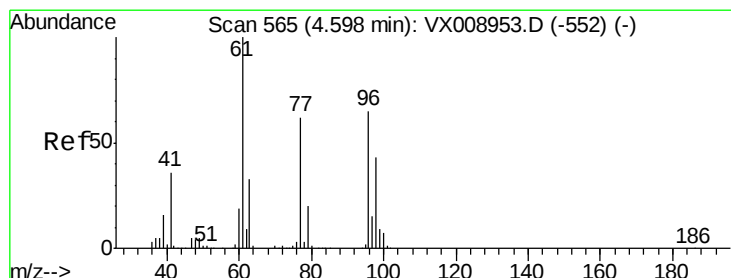
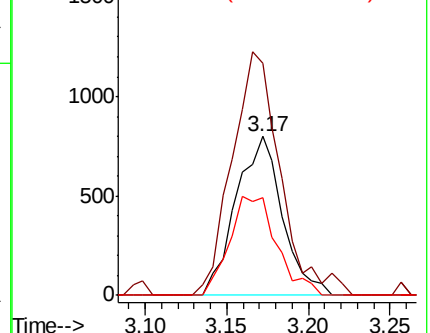
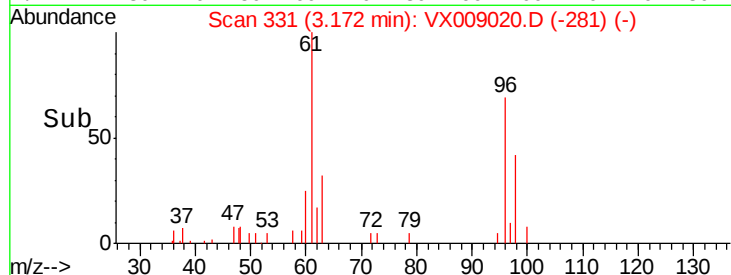
98 61.3 50.2 75.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 28.834 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

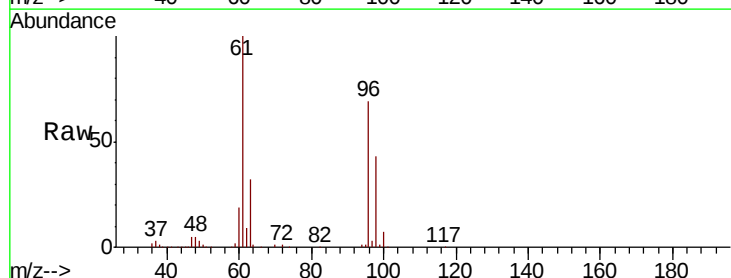
Tgt Ion: 96 Resp: 97357

Ion Ratio Lower Upper

96 100

61 141.6 0.0 322.0

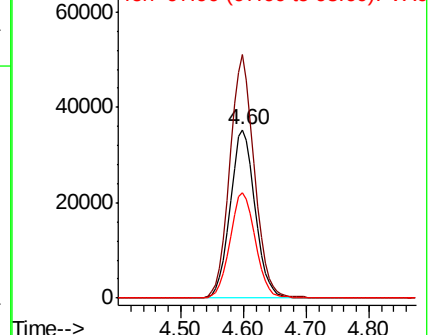
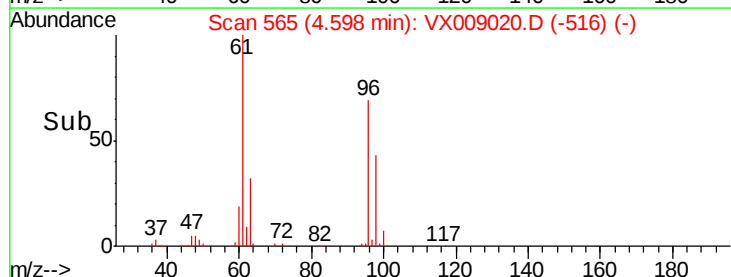
98 63.6 0.0 128.4

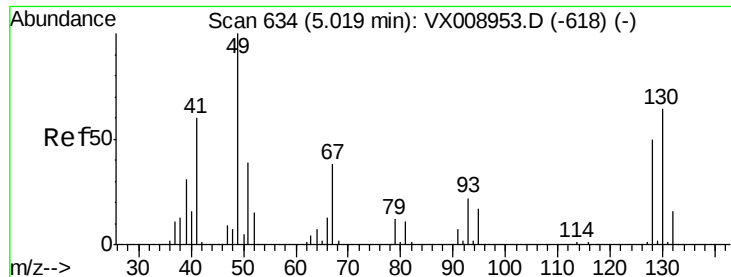


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

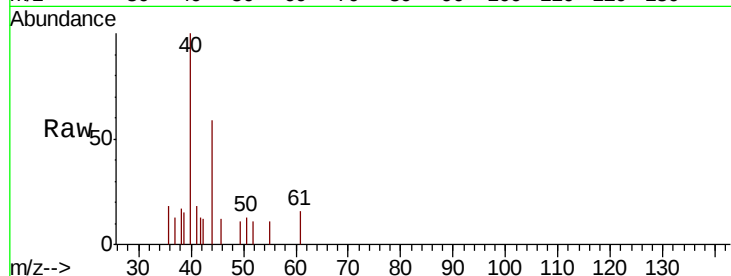
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

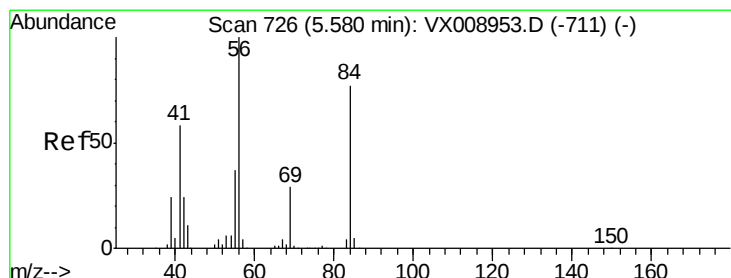
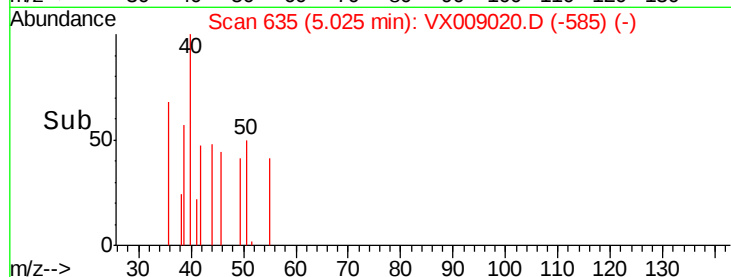
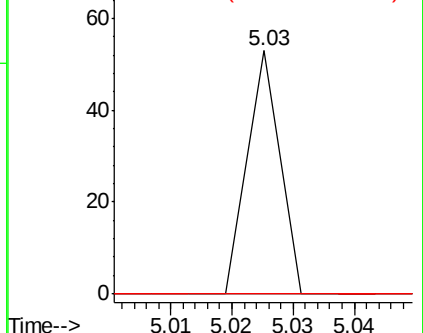
130 0.0 50.4 75.6#



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



#31

Cyclohexane

Concen: 0.987 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

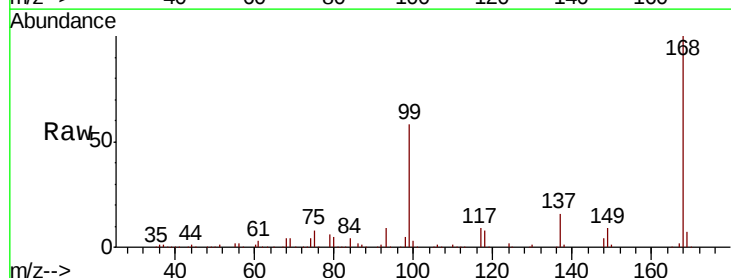
Tgt Ion: 56 Resp: 5763

Ion Ratio Lower Upper

56 100

69 182.1 23.3 34.9#

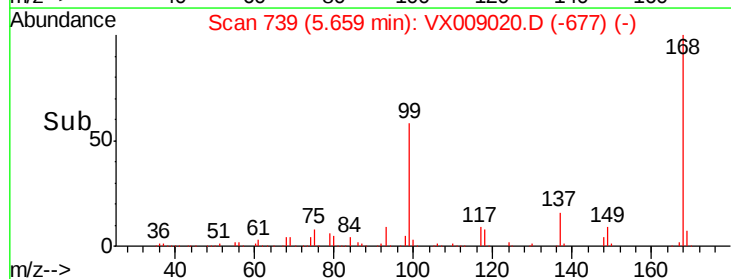
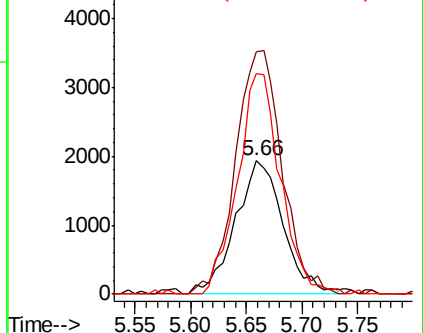
84 166.3 61.7 92.5#

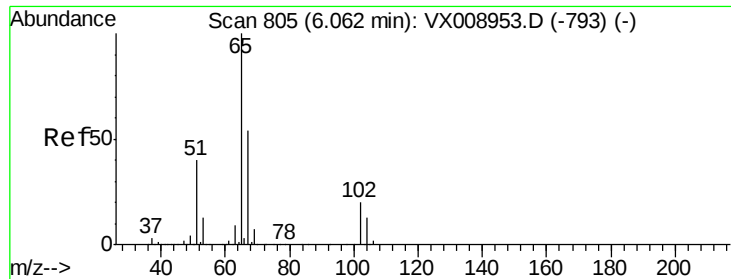


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.324 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

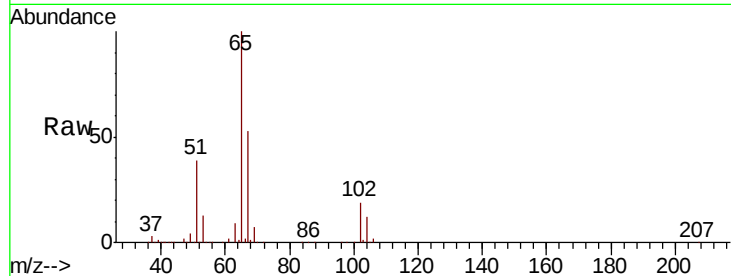
ST006MW015-190415

Tot Ion: 65 Resp: 173399

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

60000

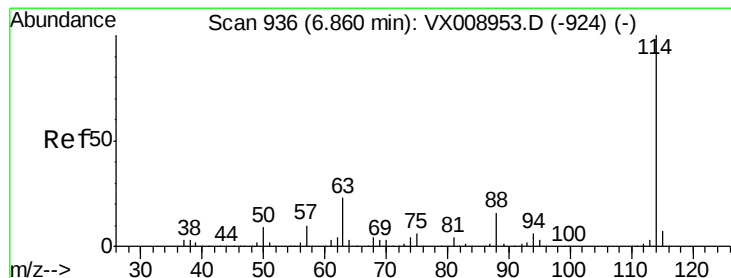
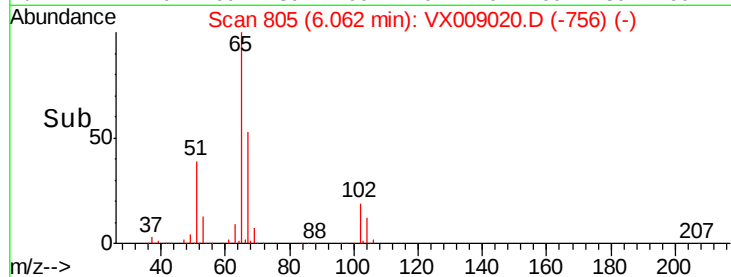
40000

20000

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: VX009020.D

Acq: 17 Apr 2019 17:20

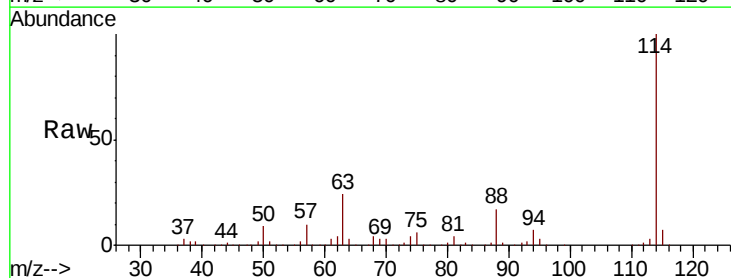
Tgt Ion:114 Resp: 420231

Ion Ratio Lower Upper

114 100

63 24.0 0.0 46.0

88 16.7 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

250000

200000

150000

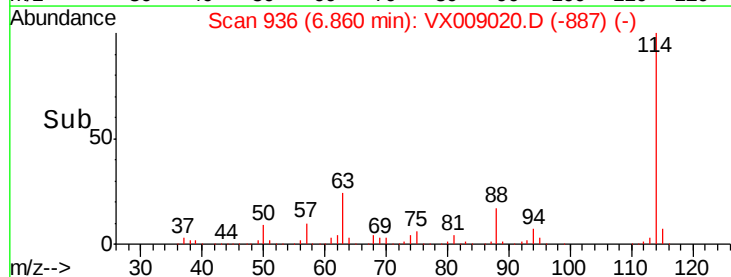
100000

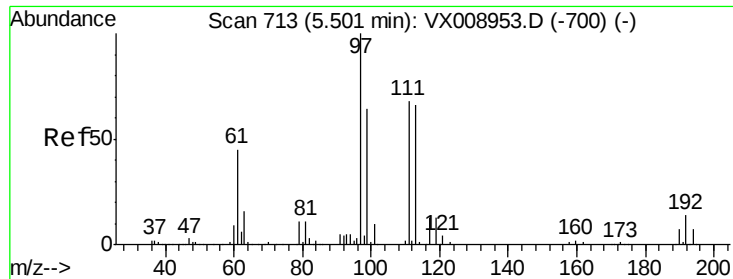
50000

0

Time-->

6.70 6.80 6.90 7.00

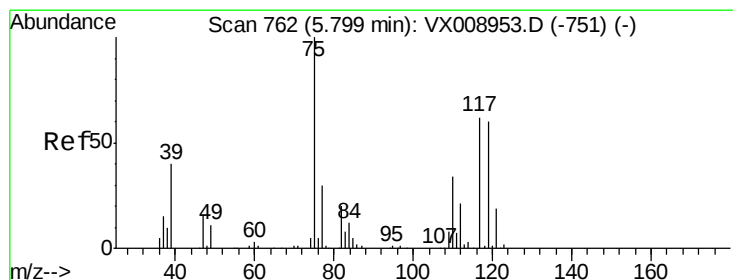
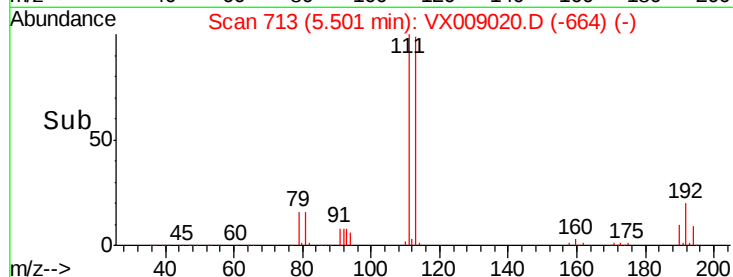
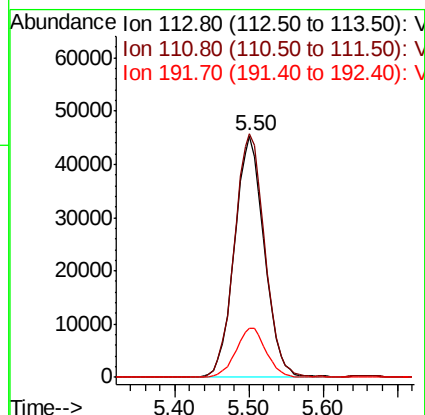
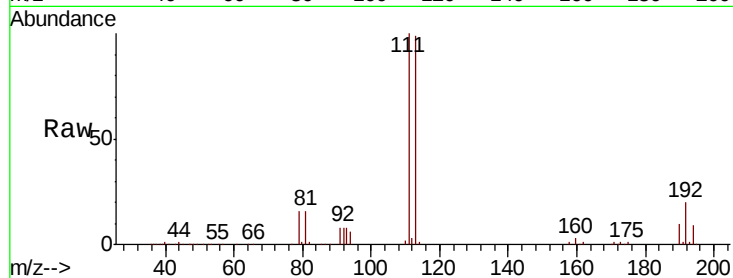




#35
Dibromofluoromethane
Concen: 47.080 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

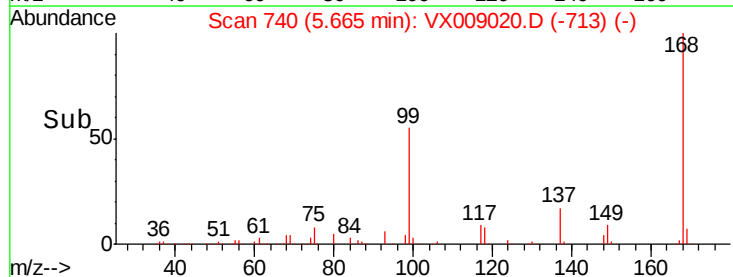
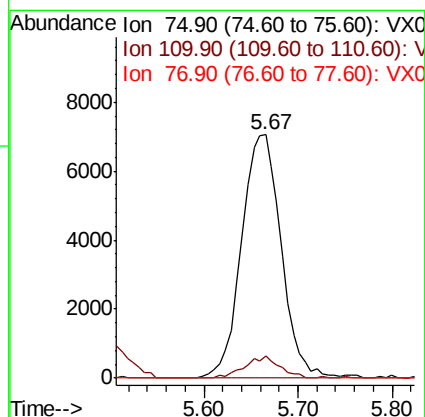
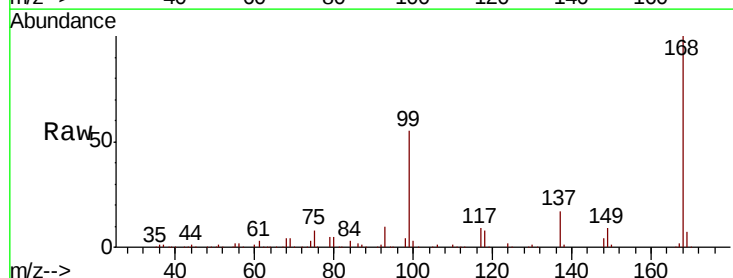
Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

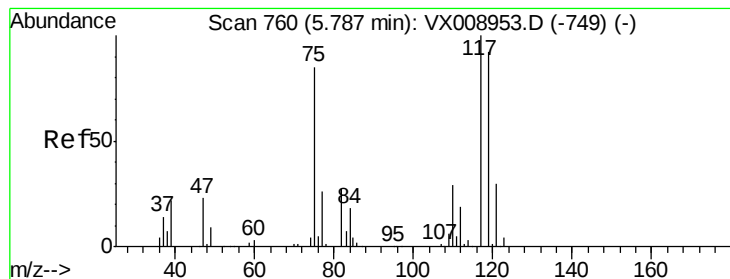
Tot Ion:113 Resp: 126973
Ion Ratio Lower Upper
113 100
111 102.9 82.9 124.3
192 20.8 17.4 26.0



#36
1,1-Dichloropropene
Concen: 4.770 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.13 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

Tgt Ion: 75 Resp: 20730
Ion Ratio Lower Upper
75 100
110 7.8 16.9 50.7#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.588 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

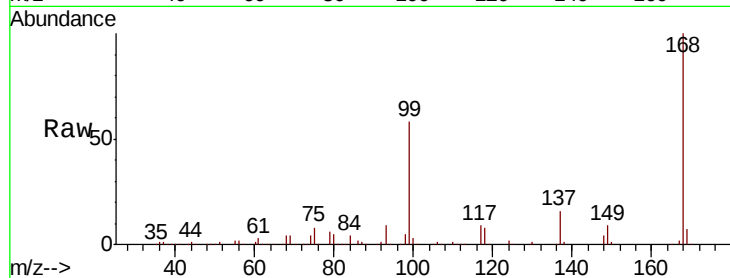
Tot Ion:117 Resp: 24274

Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

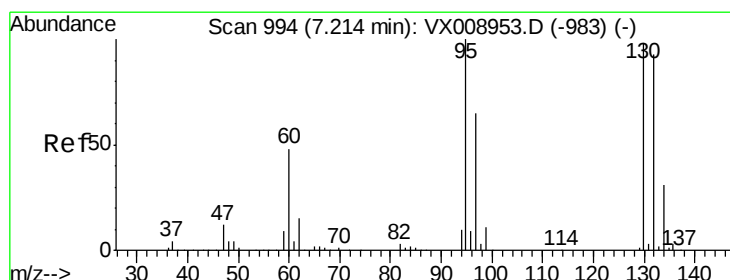
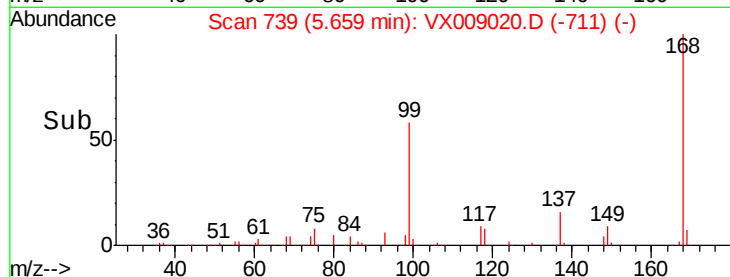
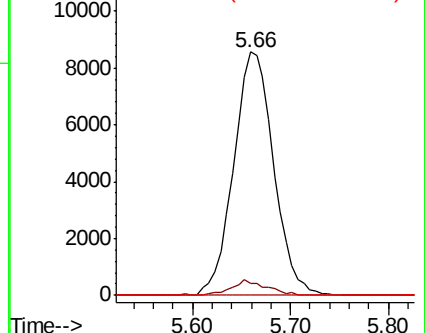
121 0.0 23.6 35.4#



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: 2.679 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009020.D

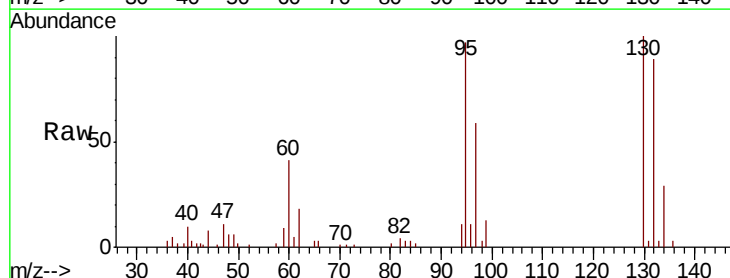
Acq: 17 Apr 2019 17:20

Tgt Ion:130 Resp: 8416

Ion Ratio Lower Upper

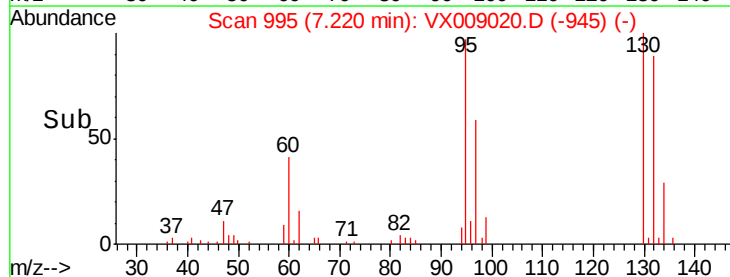
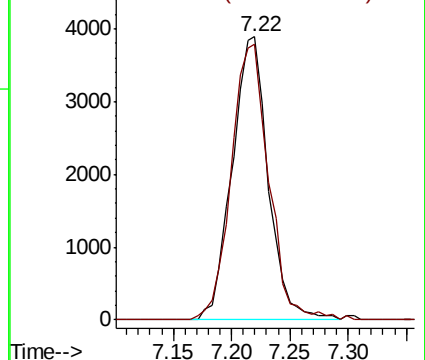
130 100

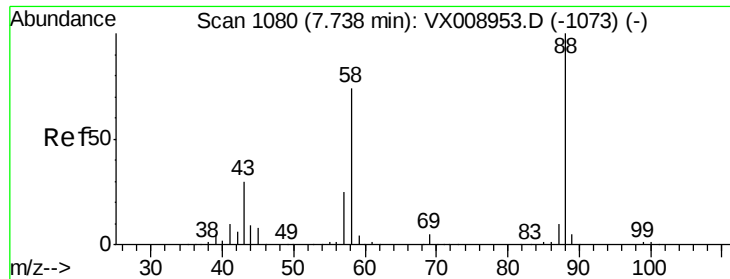
95 97.3 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

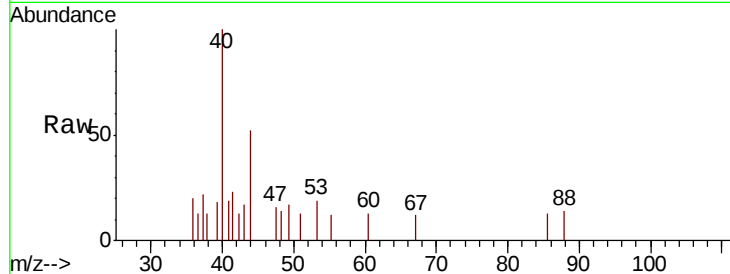




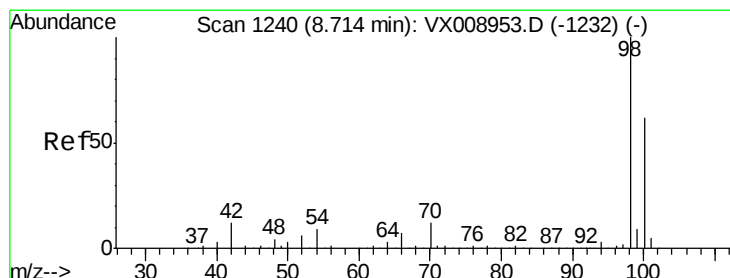
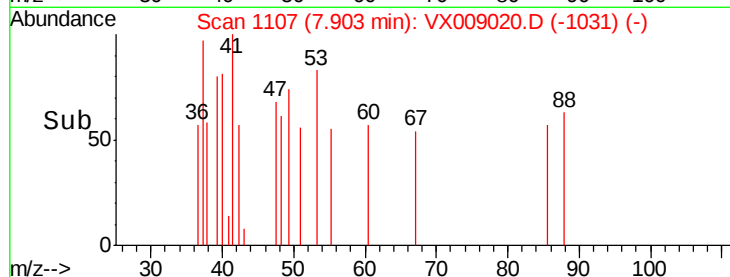
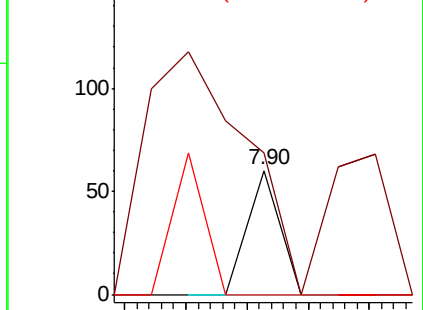
#49
 1,4-Dioxane
 Concen: 0.264 ug/l
 RT: 7.90 min Scan# 1107
 Delta R.T. 0.16 min
 Lab File: VX009020.D
 Acq: 17 Apr 2019 17:20

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006MW015-190415

Tot Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 618.2 29.3 43.9#
 58 113.6 62.6 93.8#

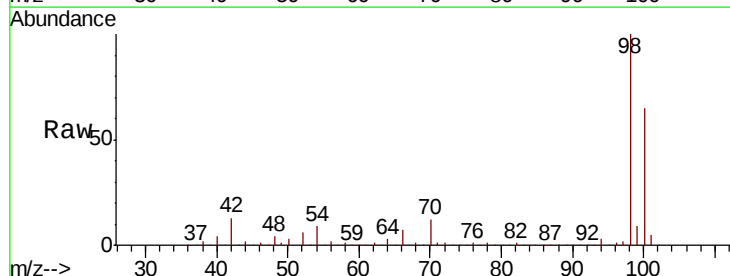


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

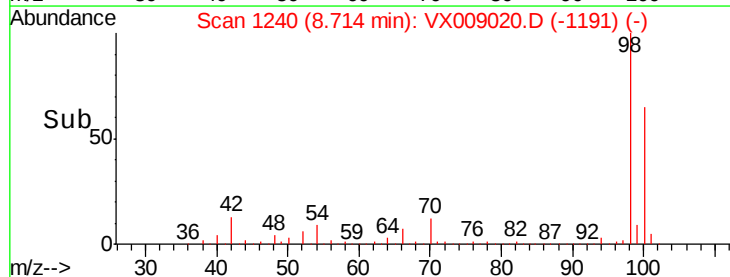
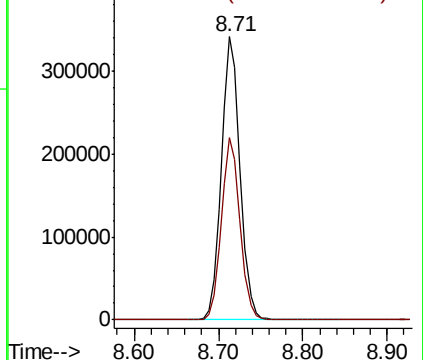


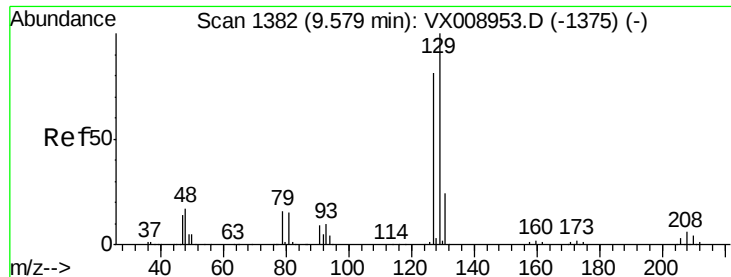
#50
 Toluene-d8
 Concen: 48.080 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX009020.D
 Acq: 17 Apr 2019 17:20

Tgt Ion: 98 Resp: 517126
 Ion Ratio Lower Upper
 98 100
 100 64.1 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: 2.991 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

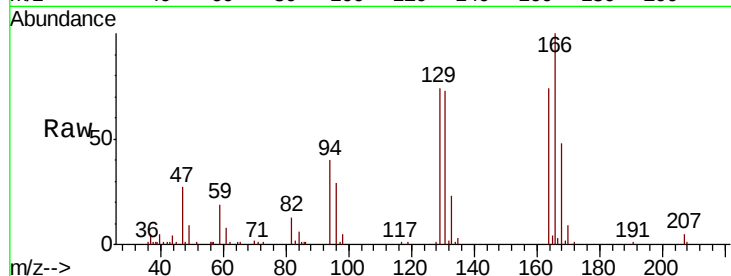
ST006MW015-190415

Tot Ion:129 Resp: 8729

Ion Ratio Lower Upper

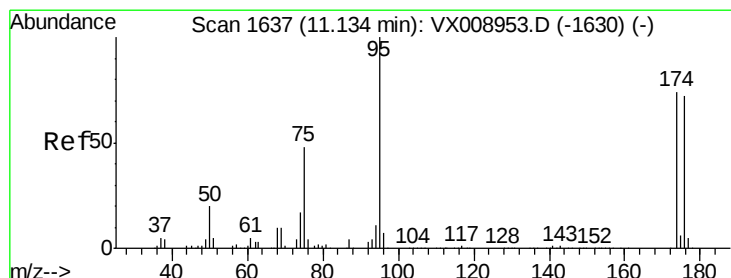
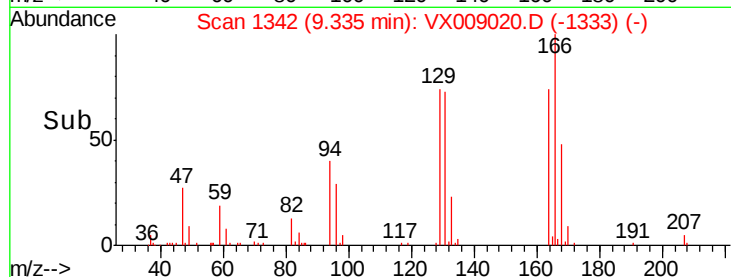
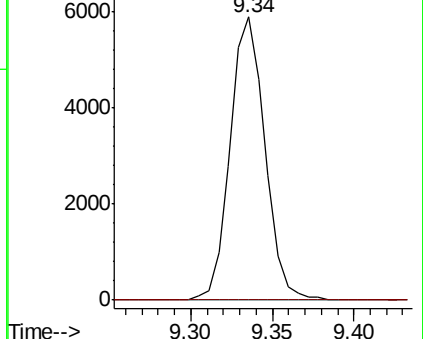
129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.322 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

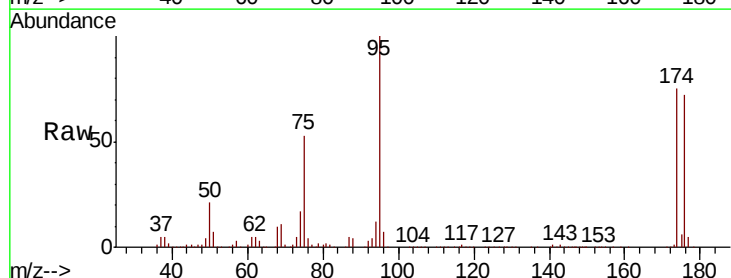
Tgt Ion: 95 Resp: 172075

Ion Ratio Lower Upper

95 100

174 79.1 0.0 159.6

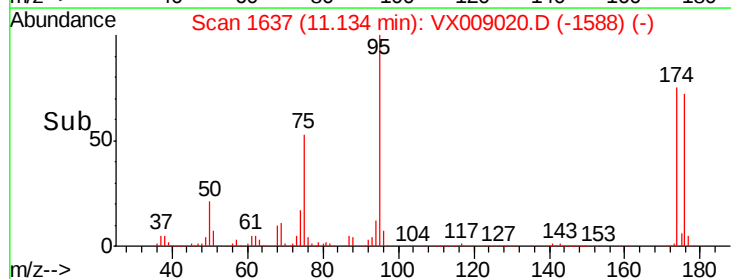
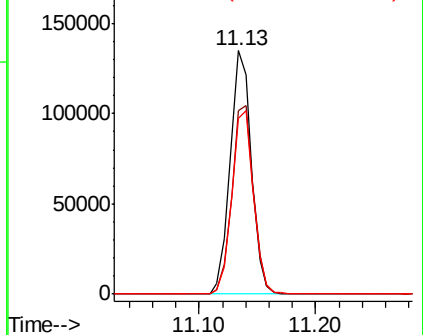
176 76.9 0.0 154.8

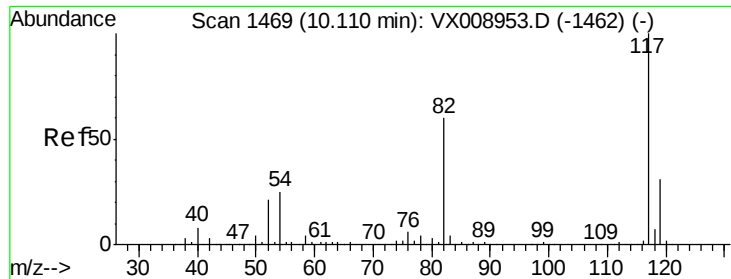


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

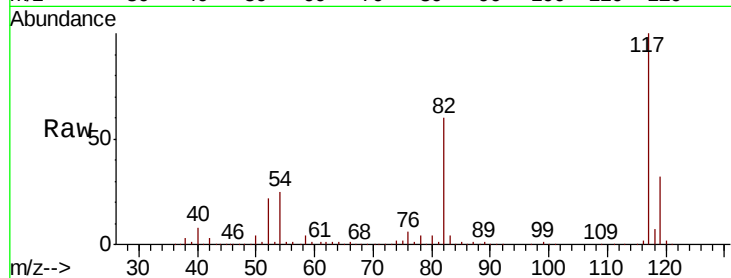




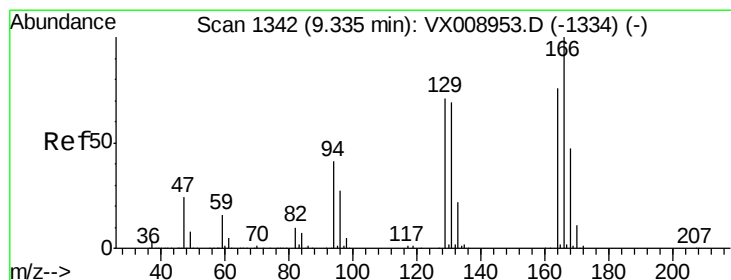
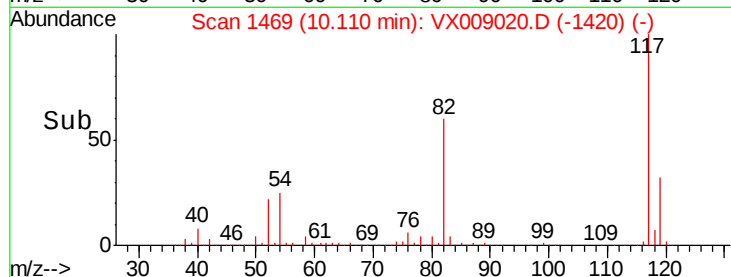
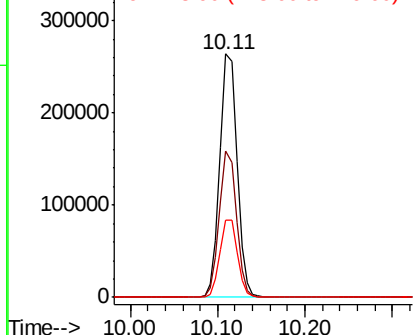
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

Instrument :
MSVOA_X
ClientSampleId :
ST006MW015-190415

Tot Ion:117 Resp: 361630
Ion Ratio Lower Upper
117 100
82 60.1 48.2 72.4
119 31.9 25.0 37.6



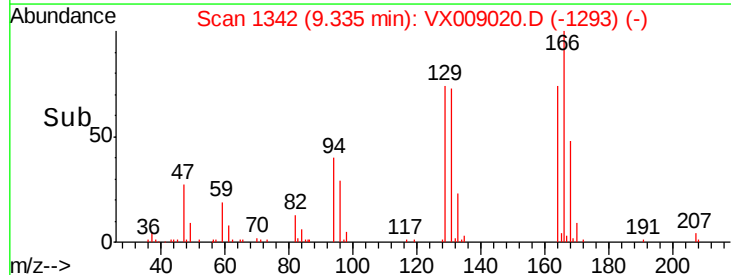
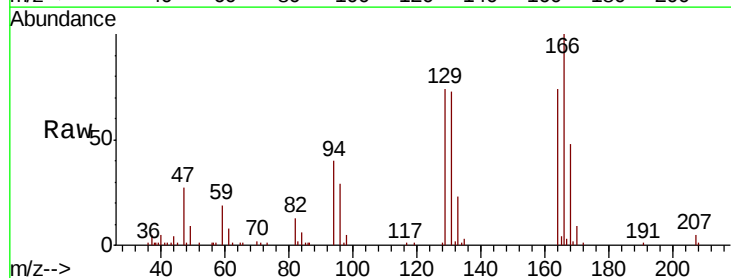
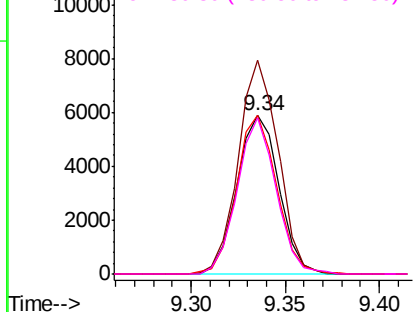
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

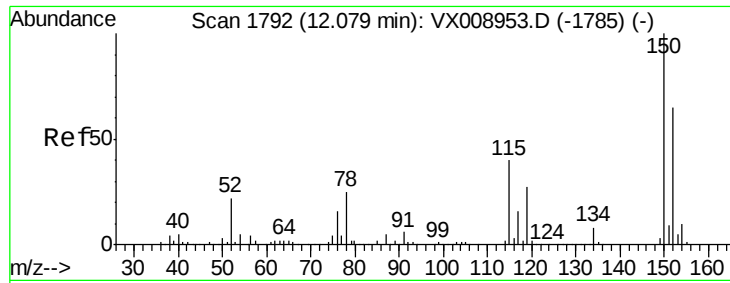


#64
Tetrachloroethene
Concen: 3.298 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009020.D
Acq: 17 Apr 2019 17:20

Tgt Ion:164 Resp: 9060
Ion Ratio Lower Upper
164 100
166 134.6 105.0 157.4
129 100.1 74.2 111.4
131 98.1 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: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

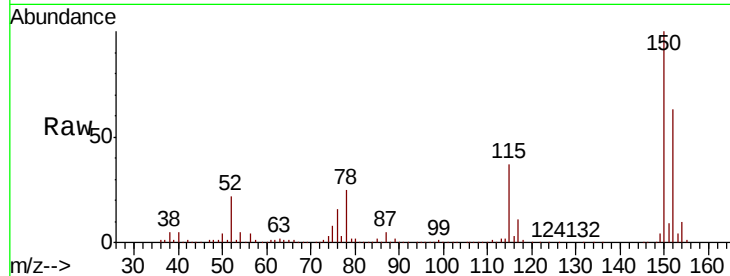
Tot Ion:152 Resp: 153226

Ion Ratio Lower Upper

152 100

115 60.0 41.4 124.2

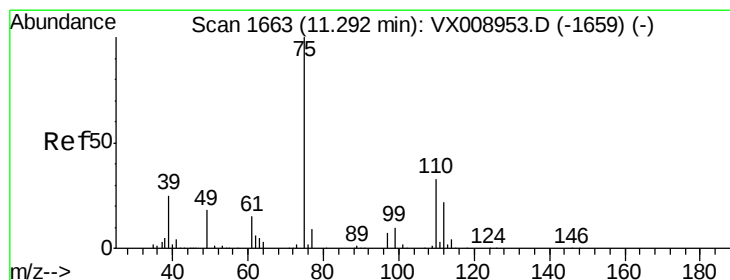
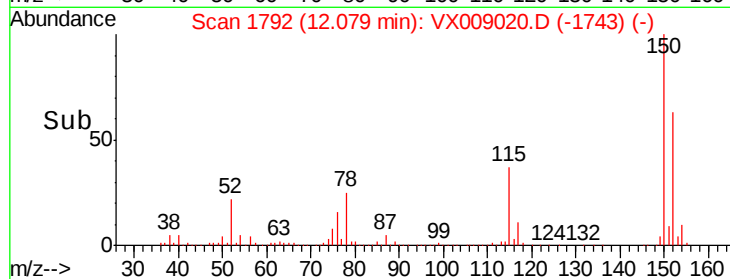
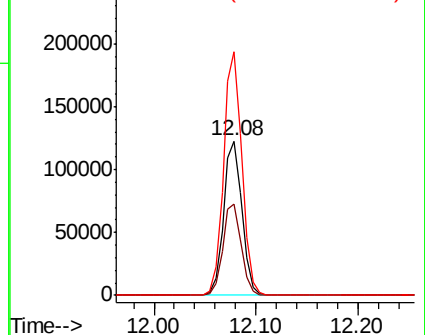
150 157.4 0.0 349.8



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: 23.557 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009020.D

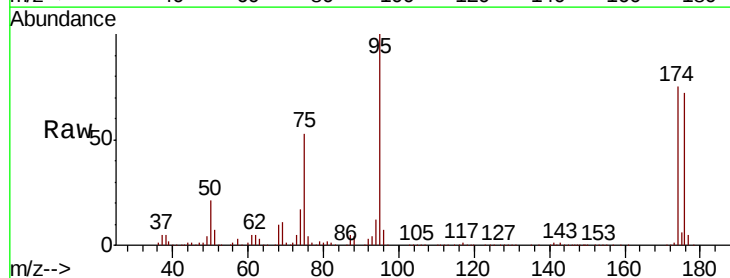
Acq: 17 Apr 2019 17:20

Tgt Ion: 75 Resp: 88138

Ion Ratio Lower Upper

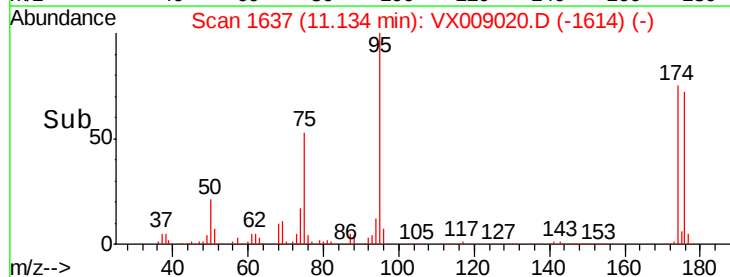
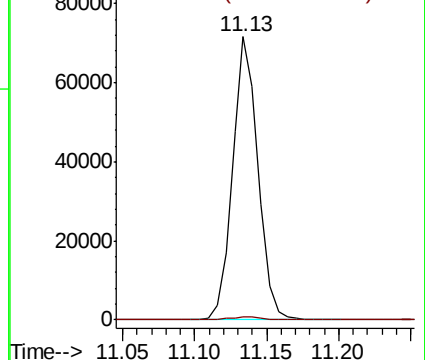
75 100

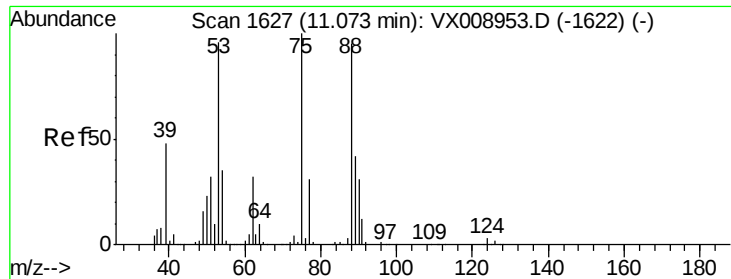
77 1.3 22.7 68.0#



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: 60.477 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009020.D

Acq: 17 Apr 2019 17:20

Instrument :

MSVOA_X

ClientSampleId :

ST006MW015-190415

Tot Ion: 75 Resp: 88138

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

