

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041919\
 Data File : VX009081.D
 Acq On : 19 Apr 2019 19:25
 Operator : JC/SP
 Sample : K2495-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW001-190417

Quant Time: Apr 20 00:41:52 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	217306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	356324	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	305087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126411	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	148597	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
35) Dibromofluoromethane	5.50	113	108748	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	8.71	98	440283	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
62) 4-Bromofluorobenzene	11.13	95	142470	44.25	ug/l	0.00
Spiked Amount			Recovery	=	88.50%	

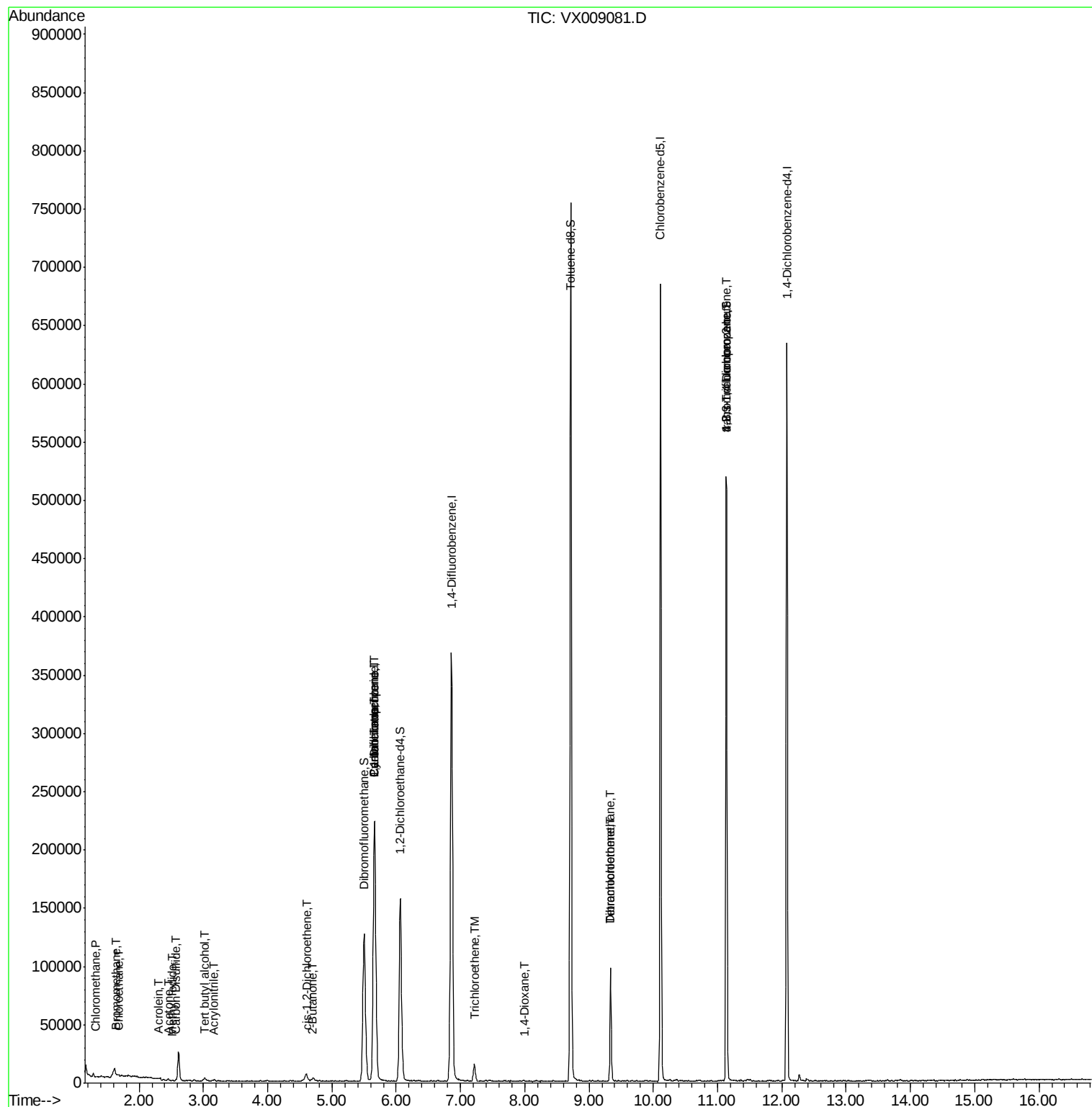
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	664	0.216	ug/l #	88
5) Bromomethane	1.65	94	749	4.217	ug/l	81
6) Chloroethane	1.68	64	3275	1.862	ug/l #	59
10) Methyl Iodide	2.51	142	505	4.603	ug/l #	86
11) Tert butyl alcohol	3.02	59	1798	2.645	ug/l #	76
13) Acrolein	2.29	56	264	0.449	ug/l	95
15) Acrylonitrile	3.15	53	454	0.263	ug/l #	87
16) Acetone	2.45	43	2151	1.354	ug/l	93
17) Carbon Disulfide	2.57	76	1564	1.475	ug/l #	95
25) 2-Butanone	4.70	43	614	0.242	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	3329	1.180	ug/l	92
28) Bromochloromethane	5.03	49	212	Below Cal	#	21
31) Cyclohexane	5.66	56	5109	1.047	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17431	4.730	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20566	6.583	ug/l #	17
44) Trichloroethene	7.22	130	5309	1.993	ug/l	85
49) 1,4-Dioxane	8.00	88	21	0.297	ug/l #	19
60) Dibromochloromethane	9.34	129	17670	7.140	ug/l #	10
64) Tetrachloroethene	9.34	164	17860	7.706	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	72601	23.521	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72601	60.384	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: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

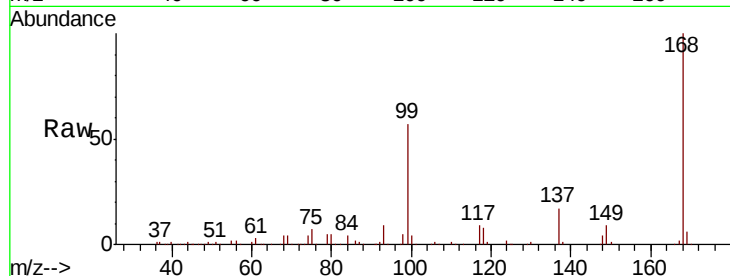
SS040MW001-190417

Tot Ion:168 Resp: 217306

Ion Ratio Lower Upper

168 100

99 56.7 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

80000

60000

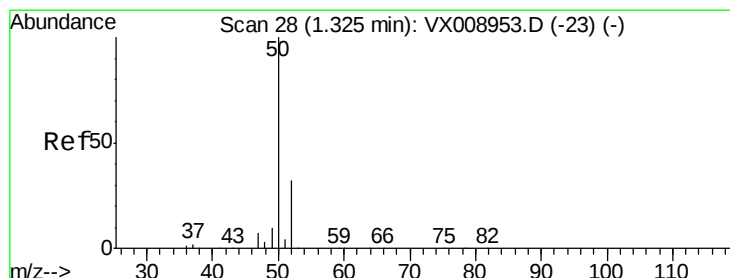
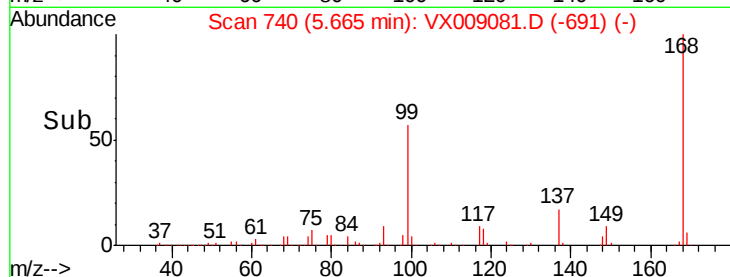
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009081.D

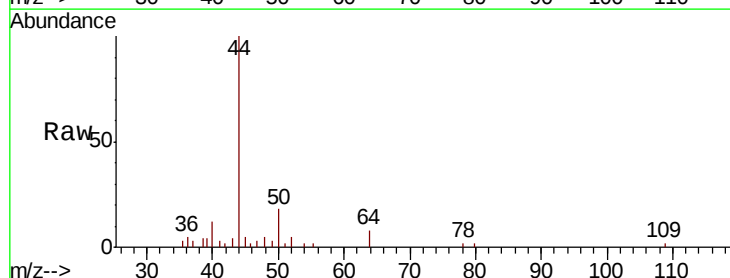
Acq: 19 Apr 2019 19:25

Tgt Ion: 50 Resp: 664

Ion Ratio Lower Upper

50 100

52 25.3 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

500

400

300

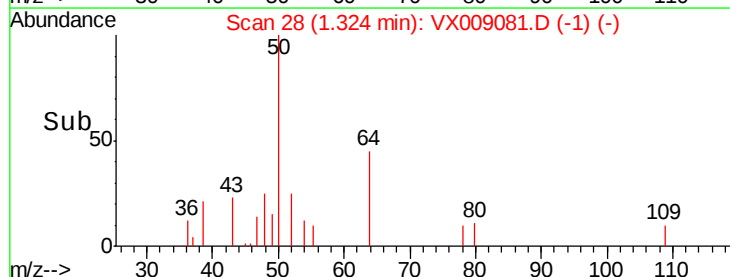
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 4.217 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

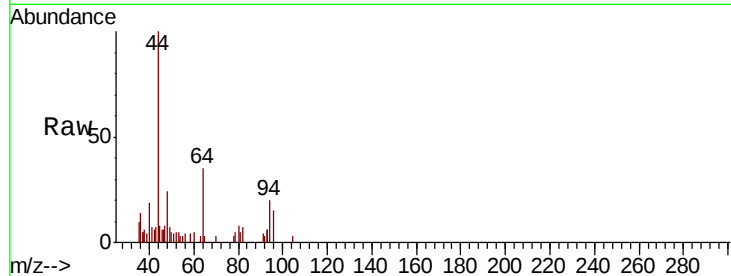
SS040MW001-190417

Tot Ion: 94 Resp: 749

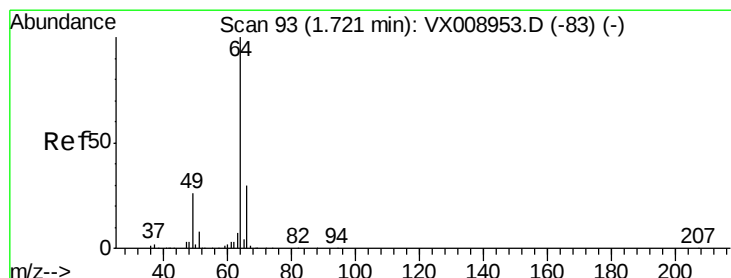
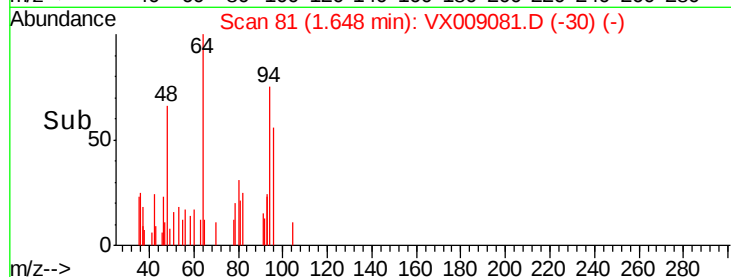
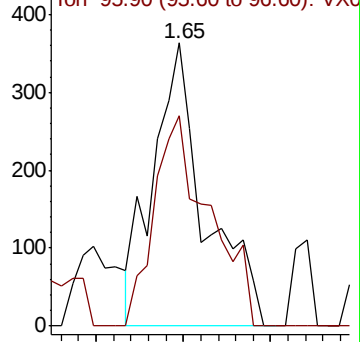
Ion Ratio Lower Upper

94 100

96 74.4 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 1.862 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX009081.D

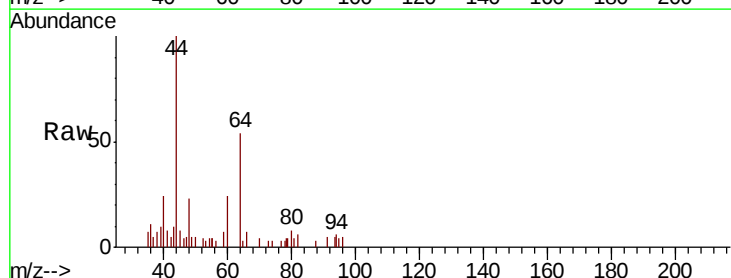
Acq: 19 Apr 2019 19:25

Tgt Ion: 64 Resp: 3275

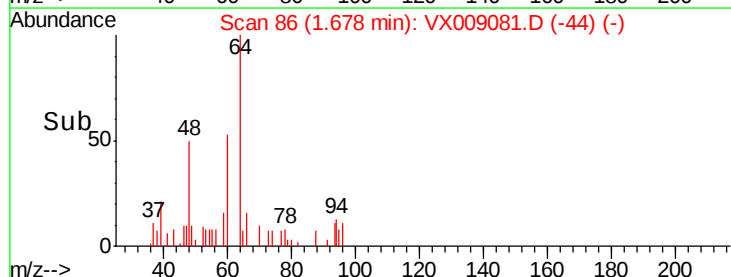
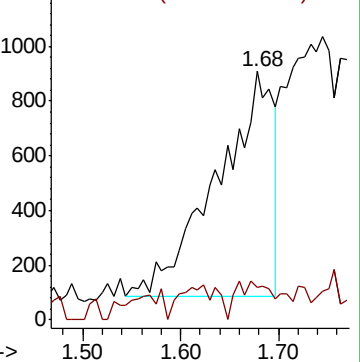
Ion Ratio Lower Upper

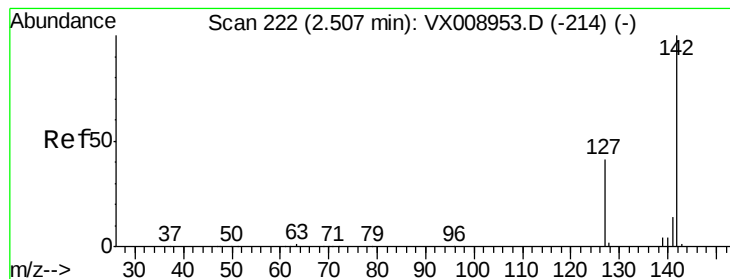
64 100

66 7.9 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

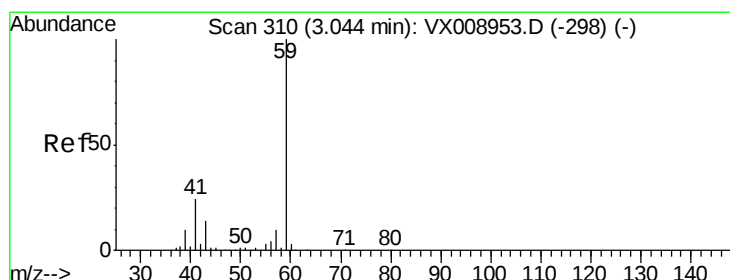
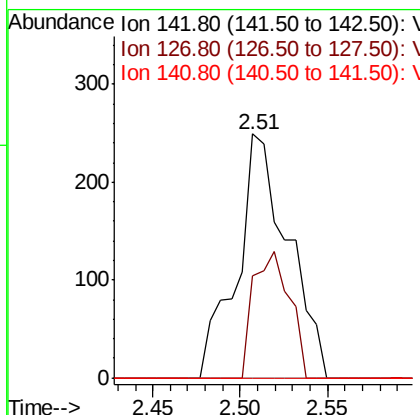
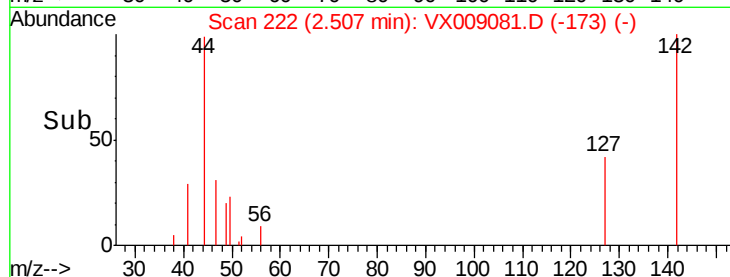
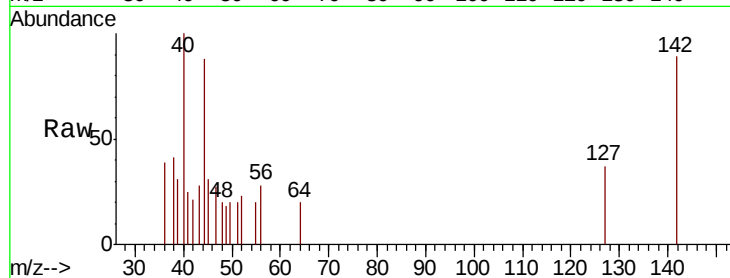




#10
Methvl Iodide
Concen: 4.603 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009081.D
Acq: 19 Apr 2019 19:25

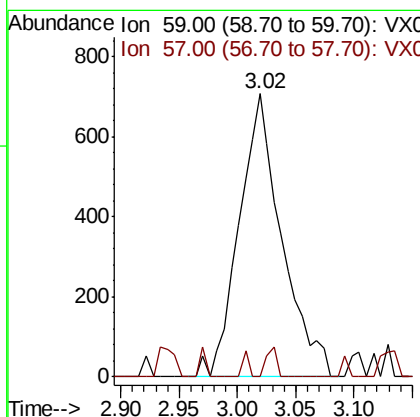
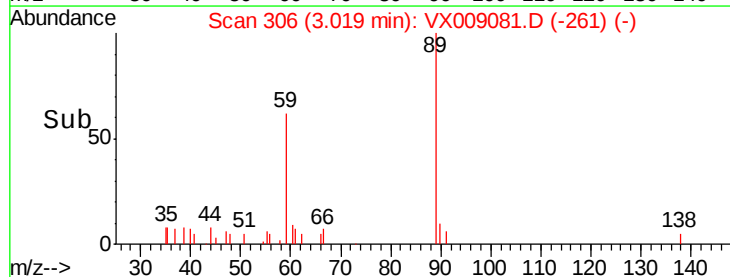
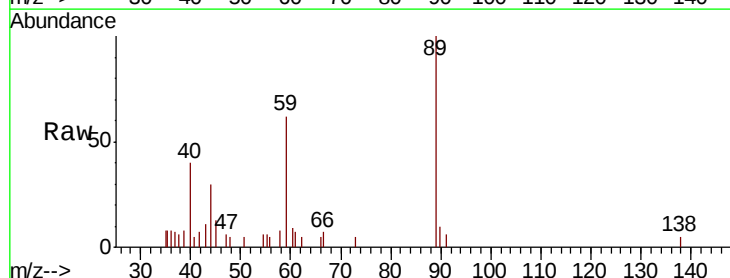
Instrument :
MSVOA_X
ClientSampleId :
SS040MW001-190417

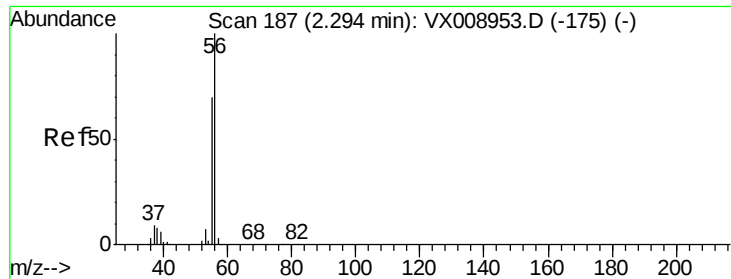
Tot Ion:142 Resp: 505
Ion Ratio Lower Upper
142 100
127 36.6 32.8 49.2
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.645 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009081.D
Acq: 19 Apr 2019 19:25

Tgt Ion: 59 Resp: 1798
Ion Ratio Lower Upper
59 100
57 1.3 8.4 12.6#





#13

Acrolein

Concen: 0.449 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

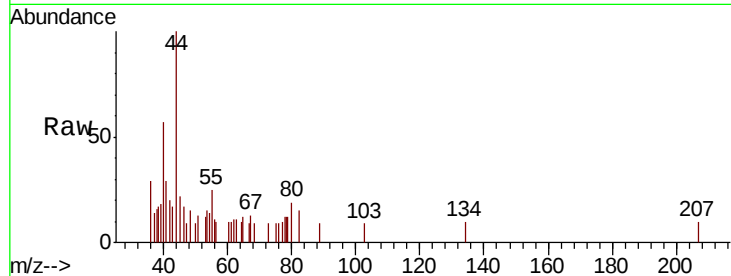
SS040MW001-190417

Tot Ion: 56 Resp: 264

Ion Ratio Lower Upper

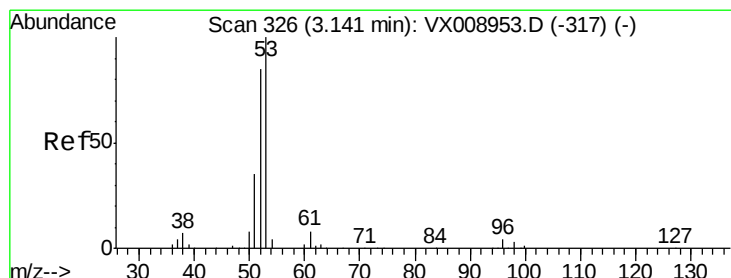
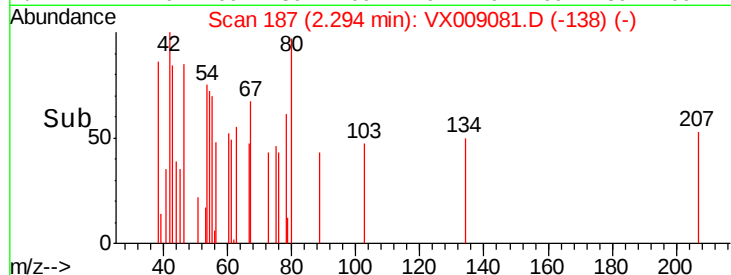
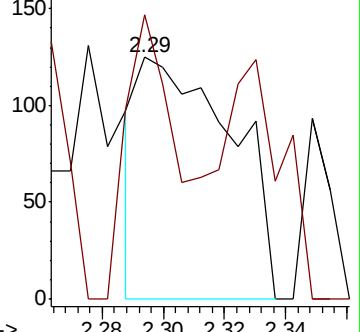
56 100

55 66.3 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.263 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

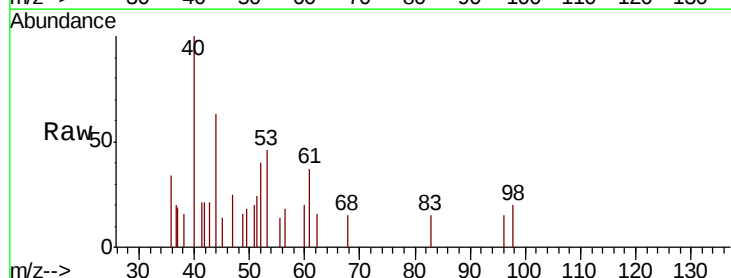
Tgt Ion: 53 Resp: 454

Ion Ratio Lower Upper

53 100

52 86.1 66.6 100.0

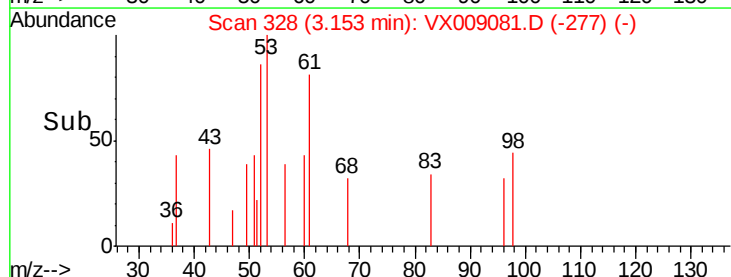
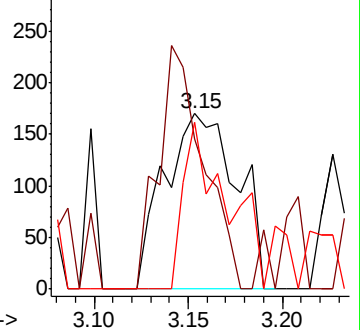
51 56.8 28.3 42.5#

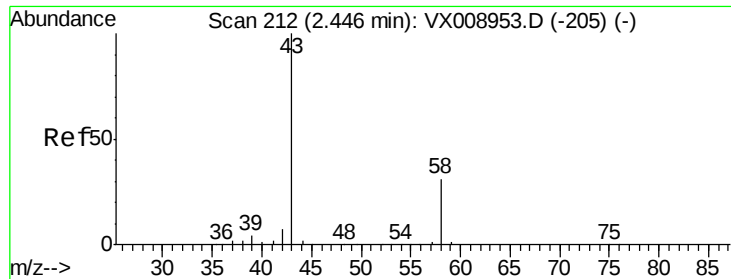


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.354 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

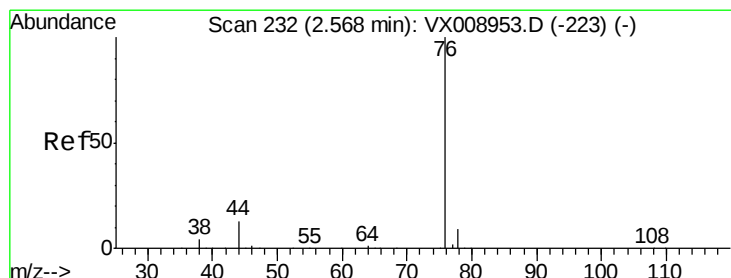
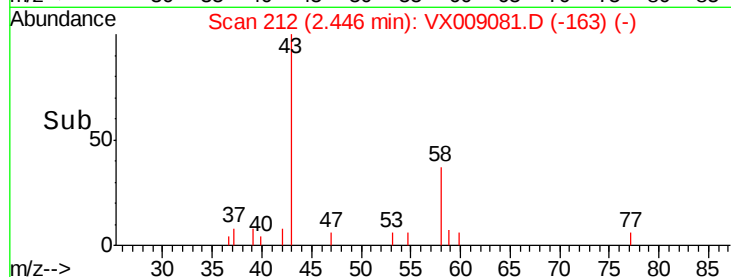
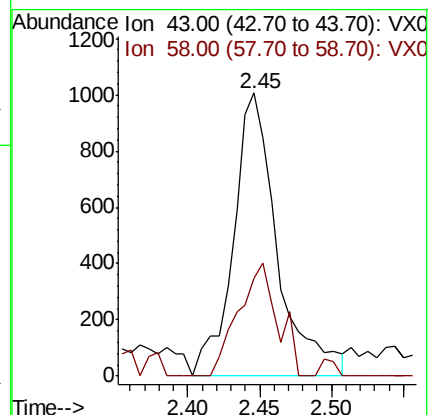
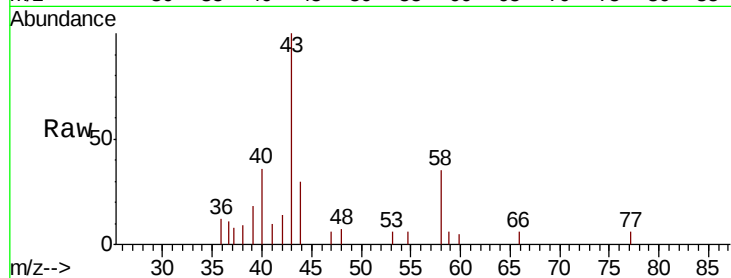
SS040MW001-190417

Tot Ion: 43 Resp: 2151

Ion Ratio Lower Upper

43 100

58 34.6 24.8 37.2



#17

Carbon Disulfide

Concen: 1.475 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009081.D

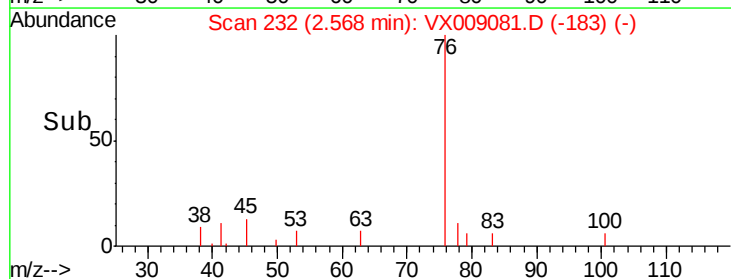
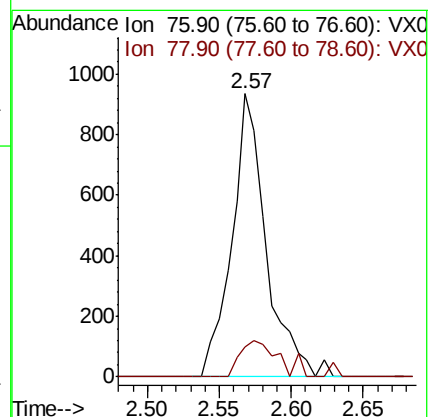
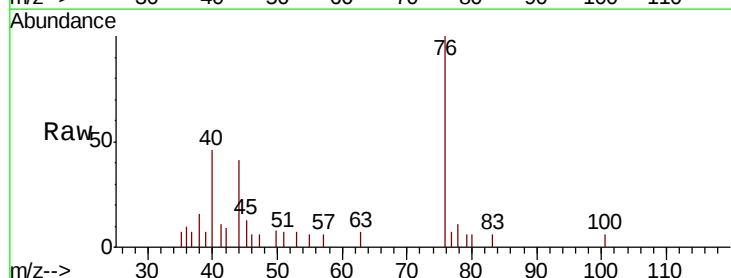
Acq: 19 Apr 2019 19:25

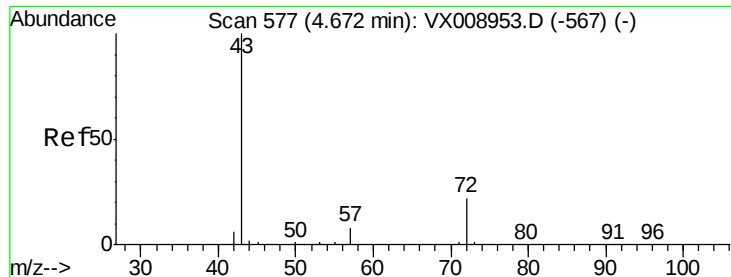
Tgt Ion: 76 Resp: 1564

Ion Ratio Lower Upper

76 100

78 10.8 7.2 10.8#





#25

2-Butanone

Concen: 0.242 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

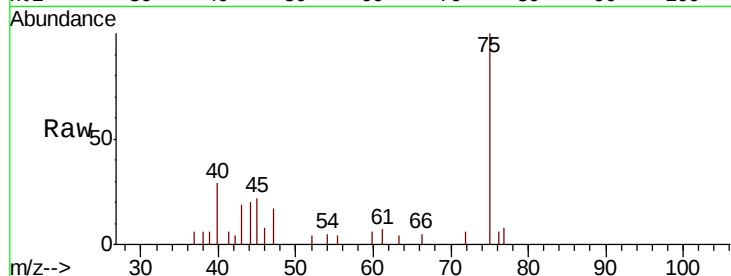
SS040MW001-190417

Tot Ion: 43 Resp: 614

Ion Ratio Lower Upper

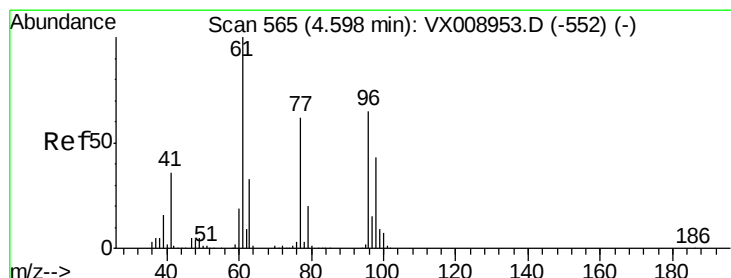
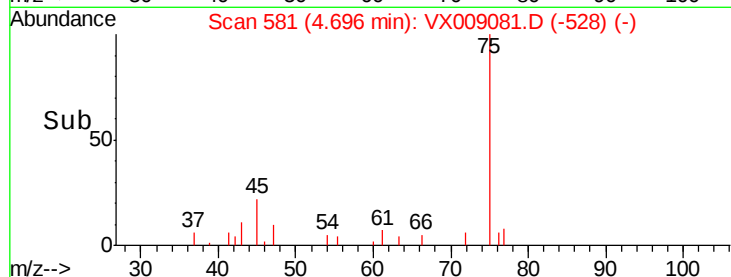
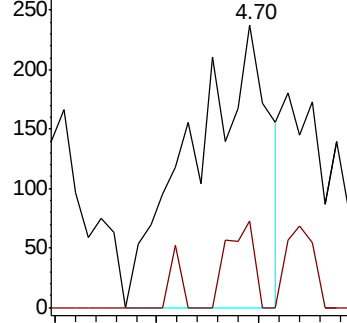
43 100

72 30.7 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 1.180 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

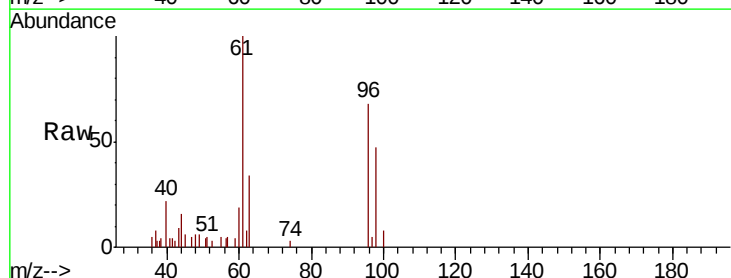
Tgt Ion: 96 Resp: 3329

Ion Ratio Lower Upper

96 100

61 148.3 0.0 322.0

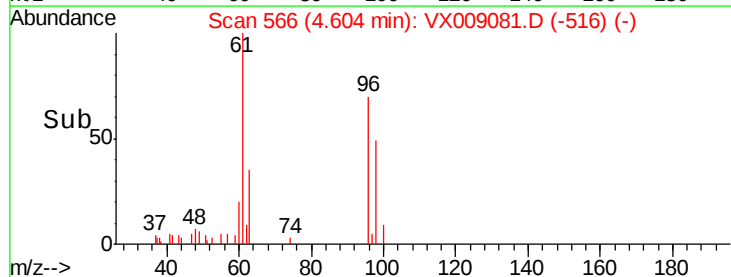
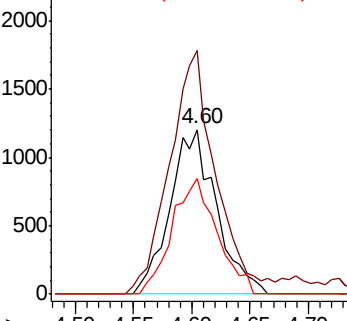
98 68.0 0.0 128.4

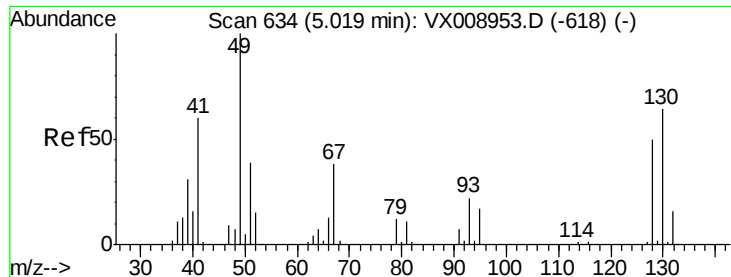


Abundance Ion 95.90 (95.60 to 96.60): VX0

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: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

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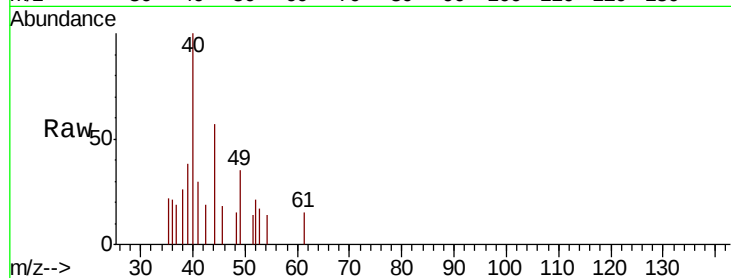
Tot Ion: 49 Resp: 212

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

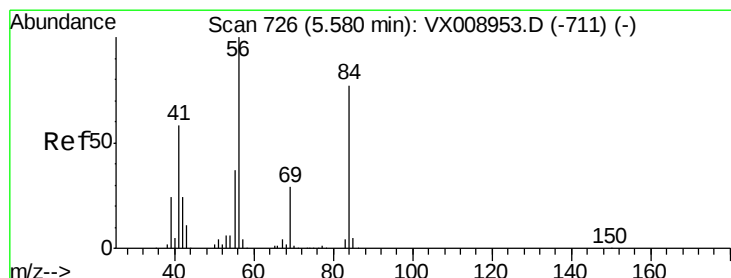
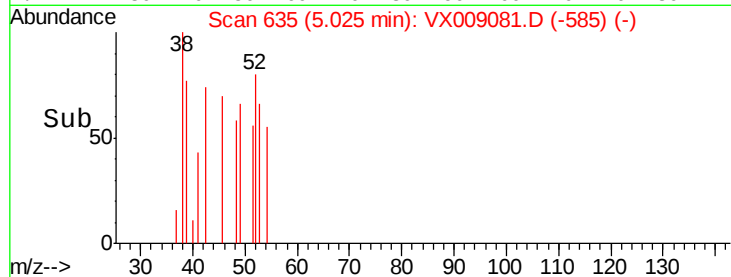
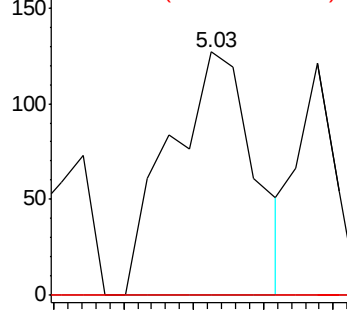
130 0.0 50.4 75.6#



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: 1.047 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

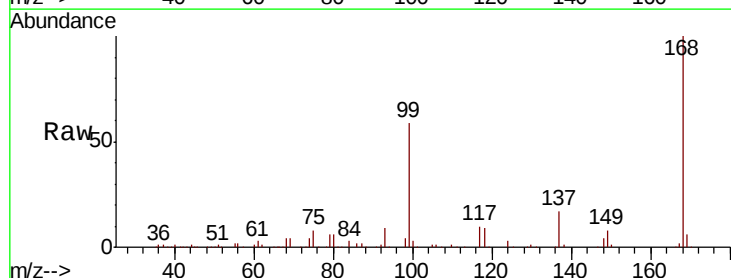
Tgt Ion: 56 Resp: 5109

Ion Ratio Lower Upper

56 100

69 170.2 23.3 34.9#

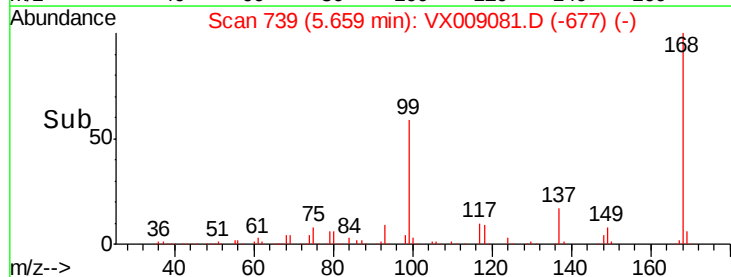
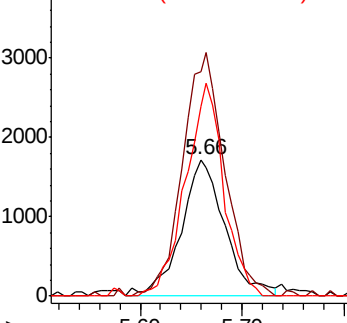
84 144.0 61.7 92.5#

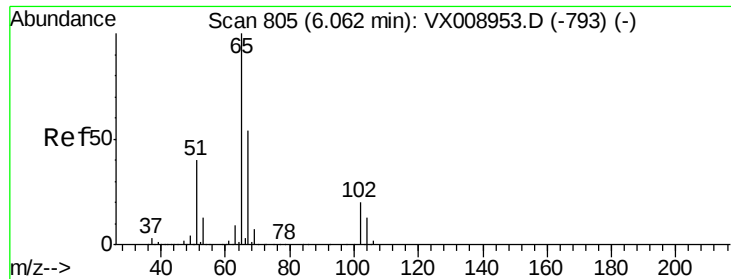


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.522 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

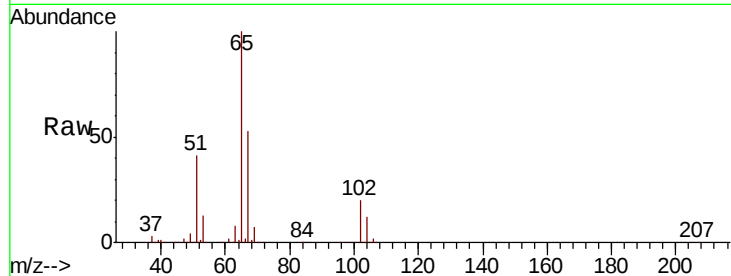
SS040MW001-190417

Tot Ion: 65 Resp: 148597

Ion Ratio Lower Upper

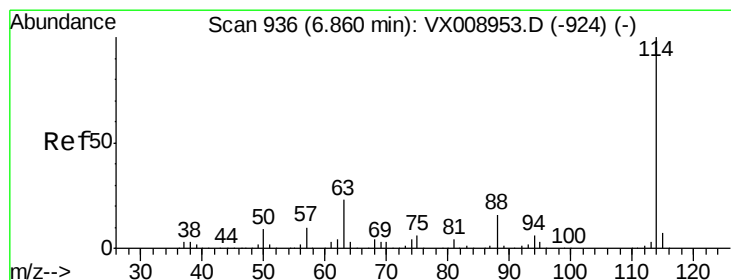
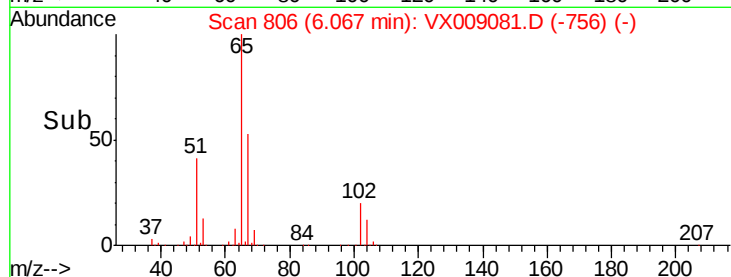
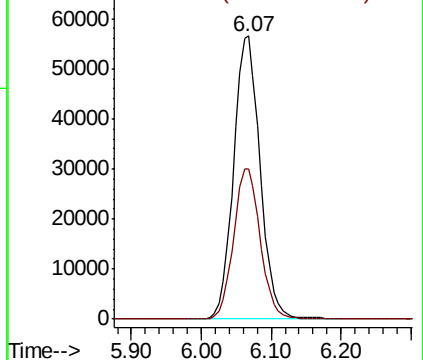
65 100

67 53.5 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: VX009081.D

Acq: 19 Apr 2019 19:25

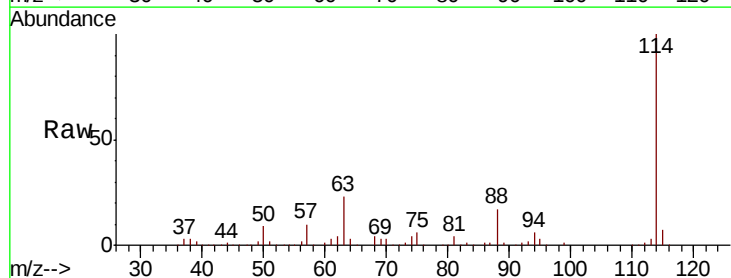
Tgt Ion: 114 Resp: 356324

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.0

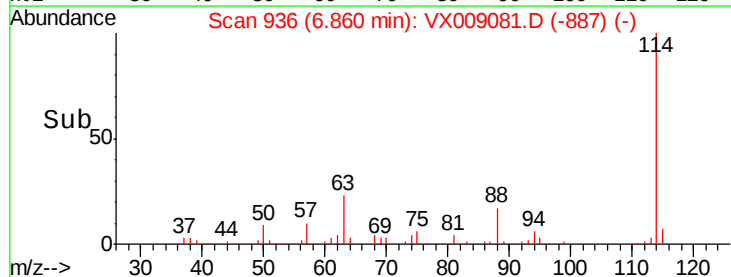
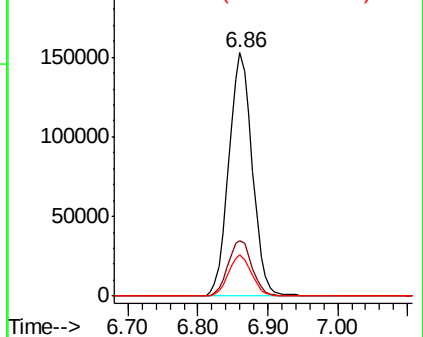
88 17.2 0.0 32.6

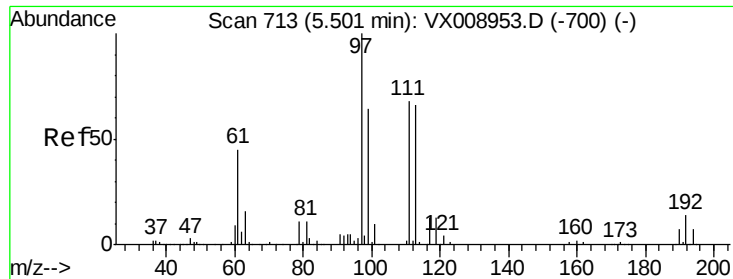


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.555 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

SS040MW001-190417

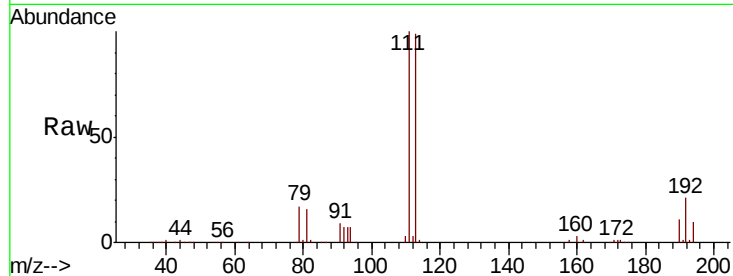
Tot Ion:113 Resp: 108748

Ion Ratio Lower Upper

113 100

111 102.8 82.9 124.3

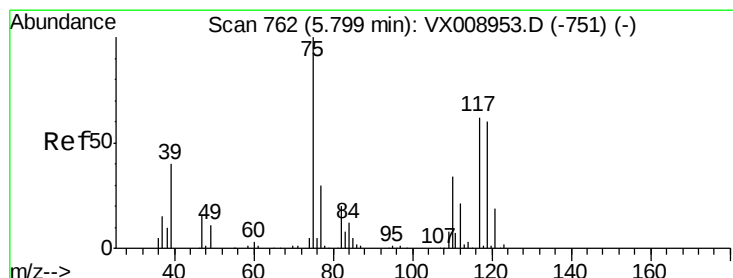
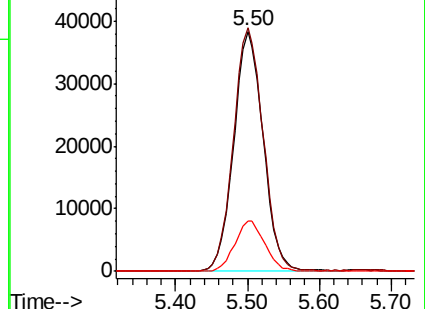
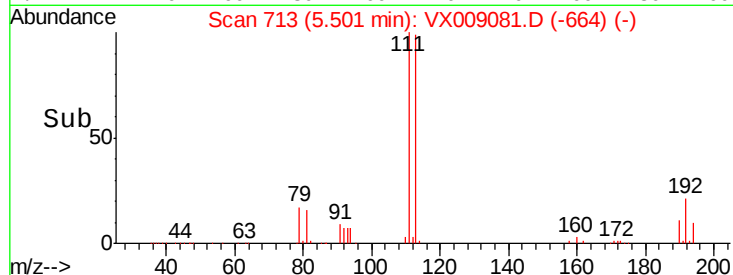
192 21.3 17.4 26.0



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: 4.730 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

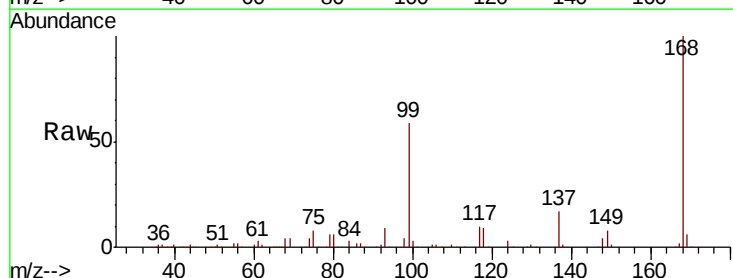
Tgt Ion: 75 Resp: 17431

Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.7#

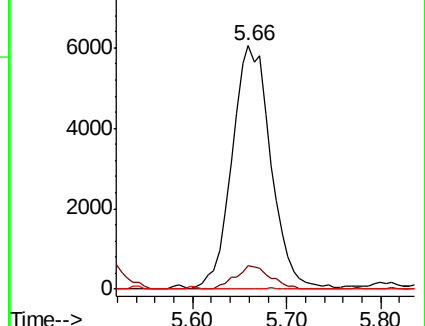
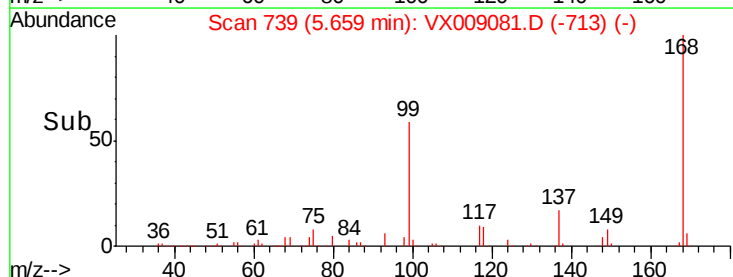
77 0.0 25.0 37.4#

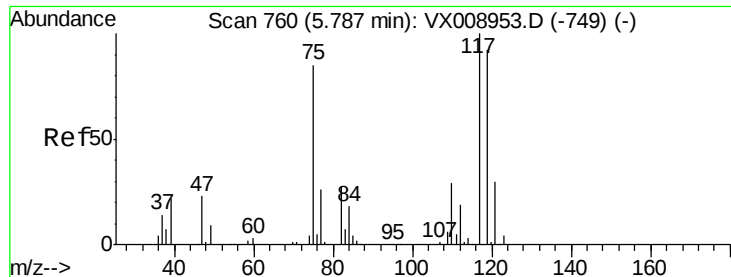


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.583 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

SS040MW001-190417

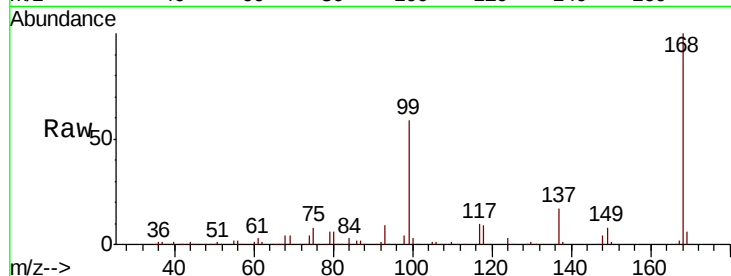
Tot Ion:117 Resp: 20566

Ion Ratio Lower Upper

117 100

119 4.3 73.8 110.8#

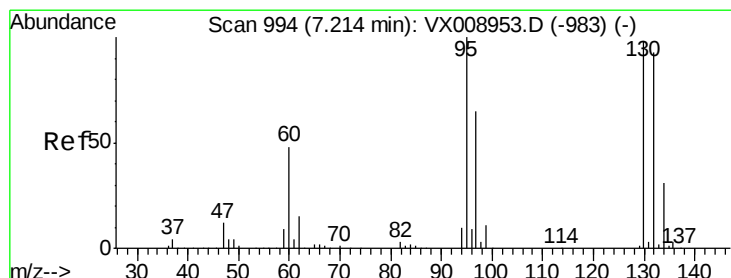
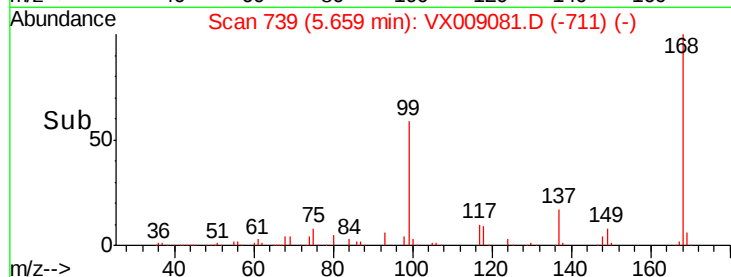
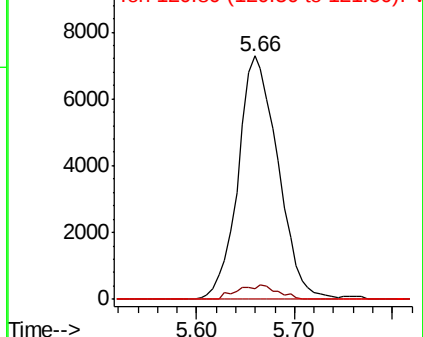
121 0.0 23.6 35.4#



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: 1.993 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009081.D

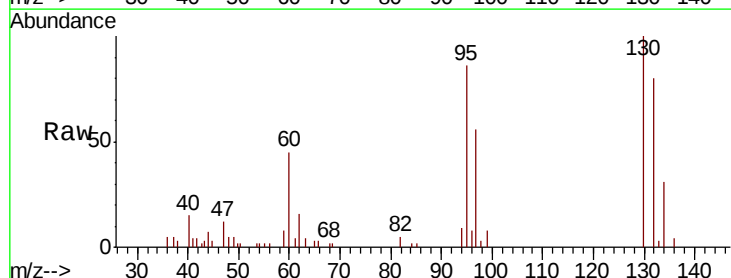
Acq: 19 Apr 2019 19:25

Tgt Ion:130 Resp: 5309

Ion Ratio Lower Upper

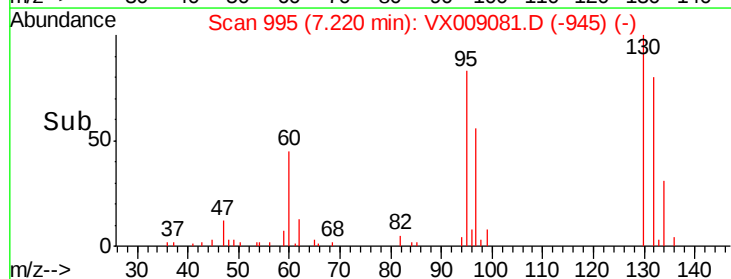
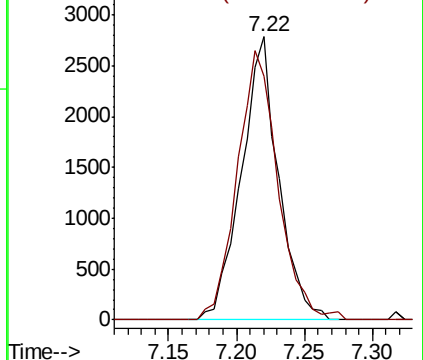
130 100

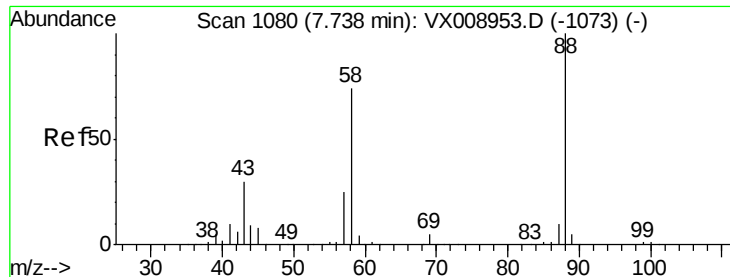
95 86.0 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.297 ug/l

RT: 8.00 min Scan# 1123

Delta R.T. 0.26 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

SS040MW001-190417

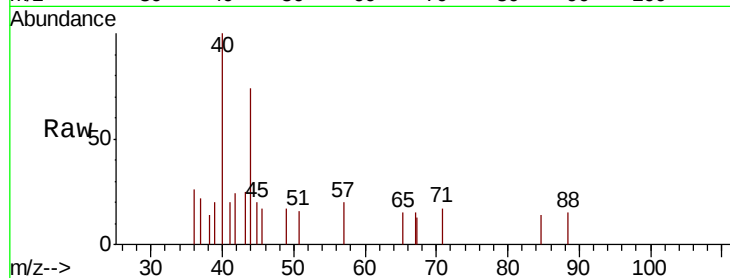
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

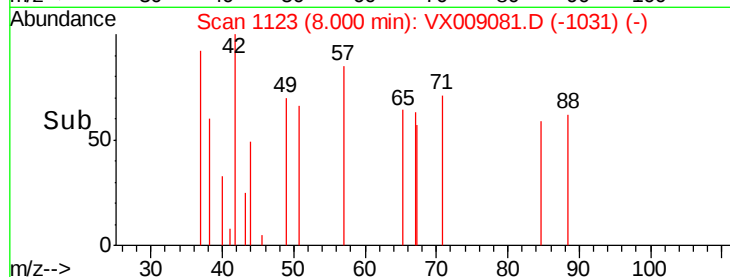
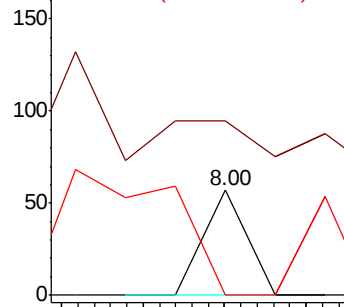
58 0.0 62.6 93.8#



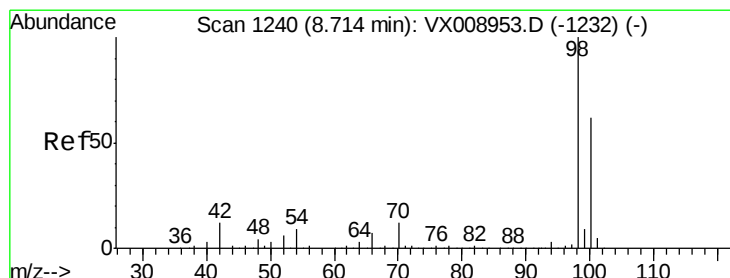
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 48.277 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009081.D

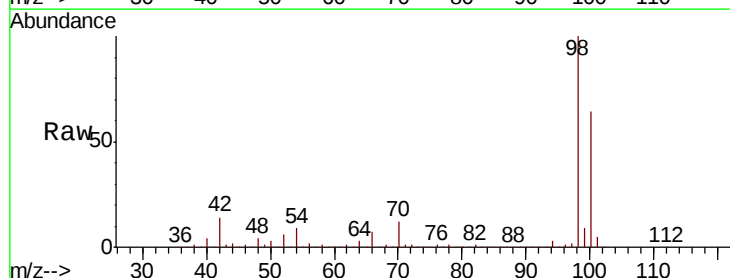
Acq: 19 Apr 2019 19:25

Tgt Ion: 98 Resp: 440283

Ion Ratio Lower Upper

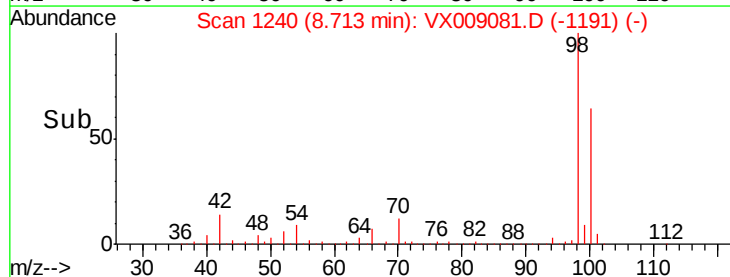
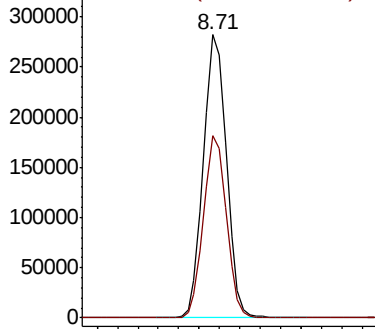
98 100

100 64.0 51.4 77.2

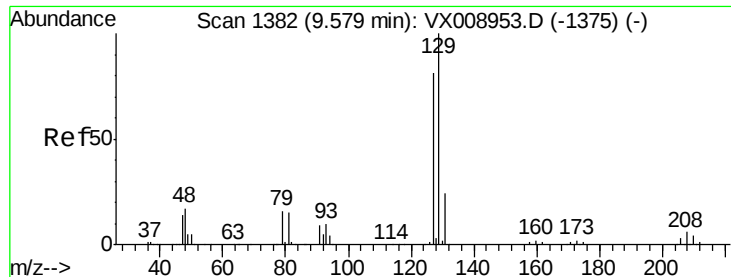


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->



#60

Dibromochloromethane

Concen: 7.140 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

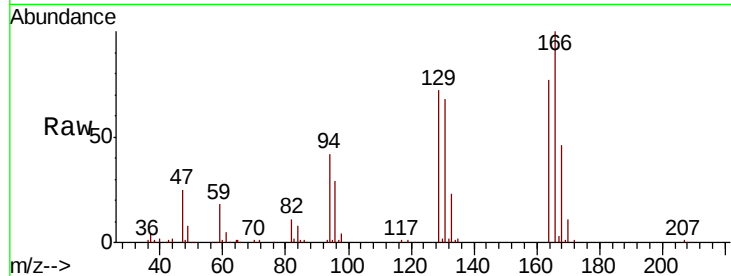
SS040MW001-190417

Tot Ion:129 Resp: 17670

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

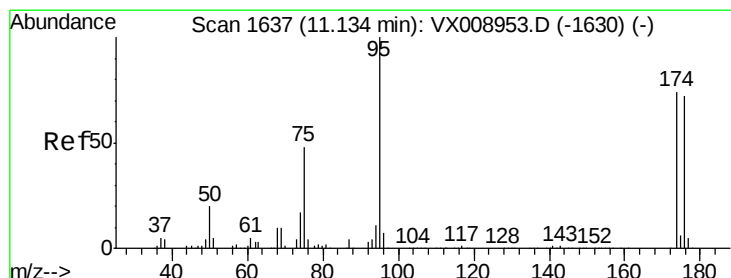
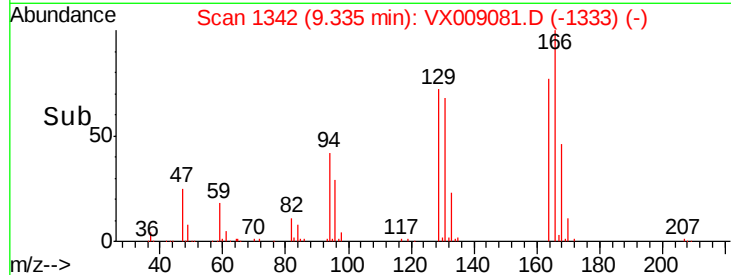
9.34

10000

5000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 44.254 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

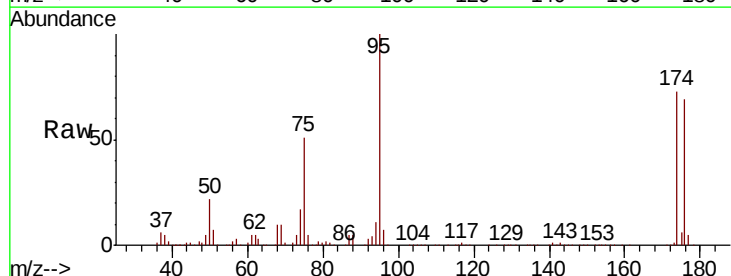
Tgt Ion: 95 Resp: 142470

Ion Ratio Lower Upper

95 100

174 79.1 0.0 159.6

176 76.6 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

150000 Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

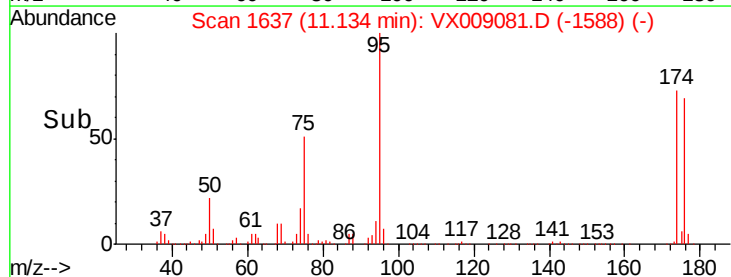
11.13

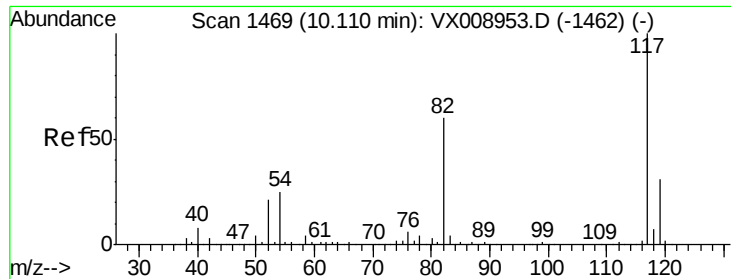
100000

50000

0

Time--> 11.10 11.20

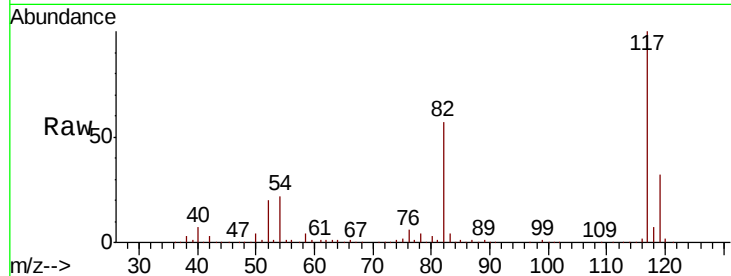




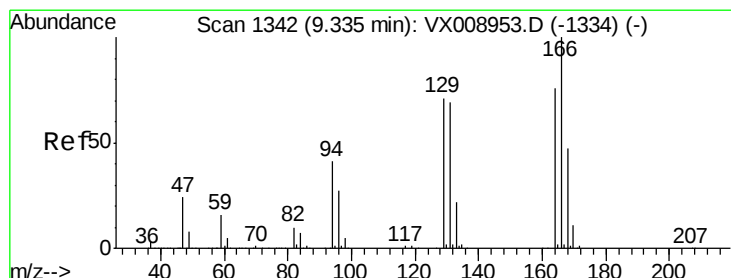
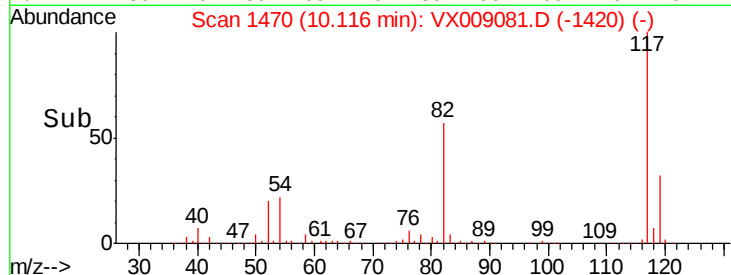
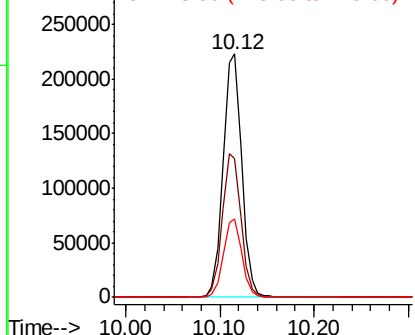
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009081.D
Acq: 19 Apr 2019 19:25

Instrument :
MSVOA_X
ClientSampleId :
SS040MW001-190417

Tot Ion:117 Resp: 305087
Ion Ratio Lower Upper
117 100
82 57.1 48.2 72.4
119 32.1 25.0 37.6

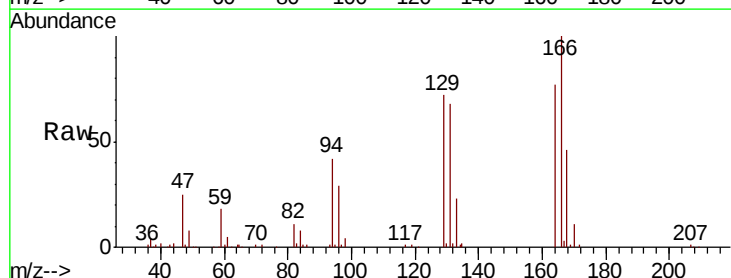


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

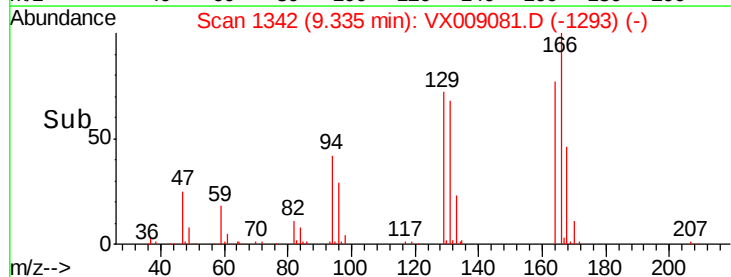
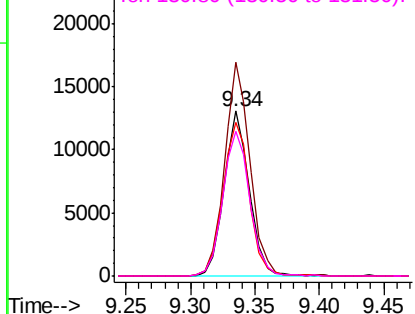


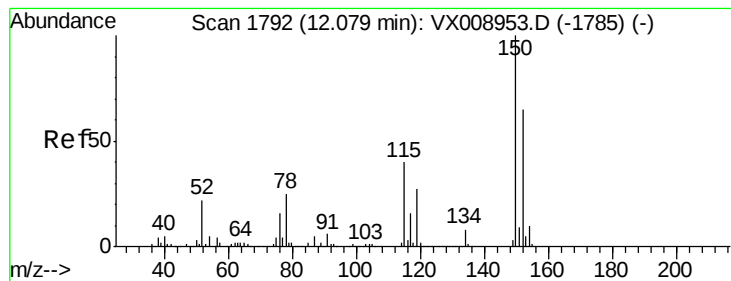
#64
Tetrachloroethene
Concen: 7.706 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009081.D
Acq: 19 Apr 2019 19:25

Tgt Ion:164 Resp: 17860
Ion Ratio Lower Upper
164 100
166 129.7 105.0 157.4
129 93.3 74.2 111.4
131 88.1 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: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

SS040MW001-190417

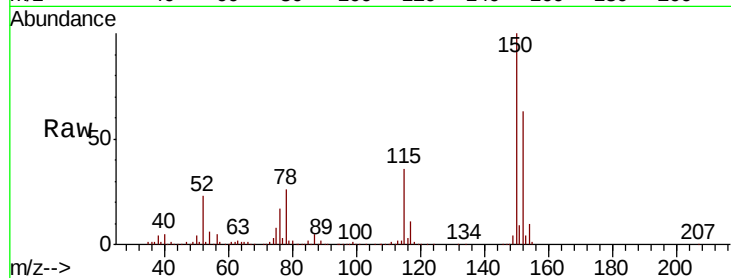
Tot Ion:152 Resp: 126411

Ion Ratio Lower Upper

152 100

115 59.3 41.4 124.2

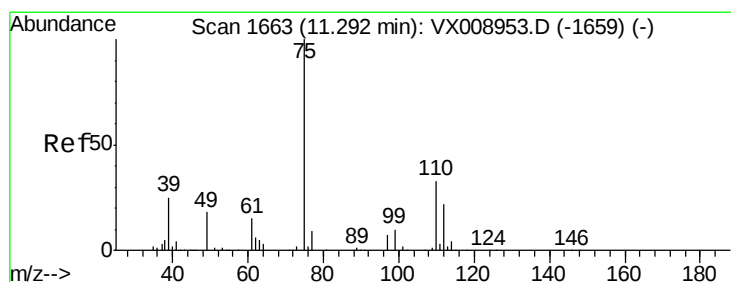
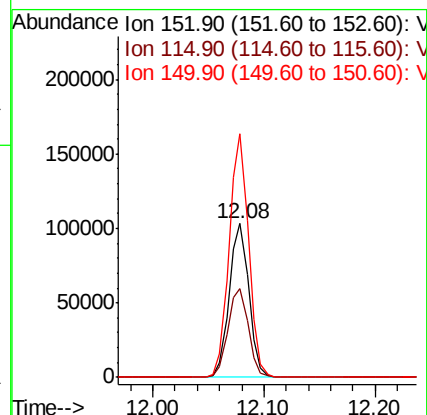
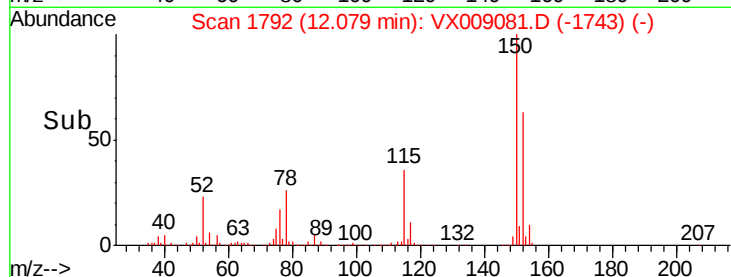
150 155.6 0.0 349.8



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: 23.521 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009081.D

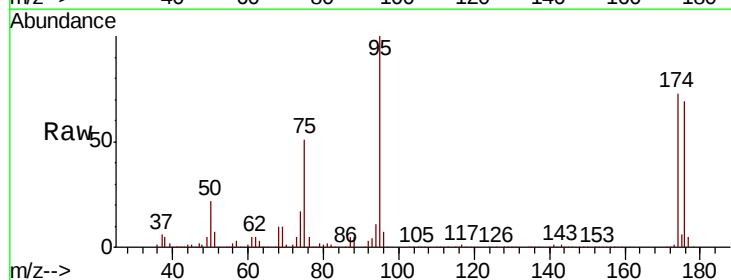
Acq: 19 Apr 2019 19:25

Tgt Ion: 75 Resp: 72601

Ion Ratio Lower Upper

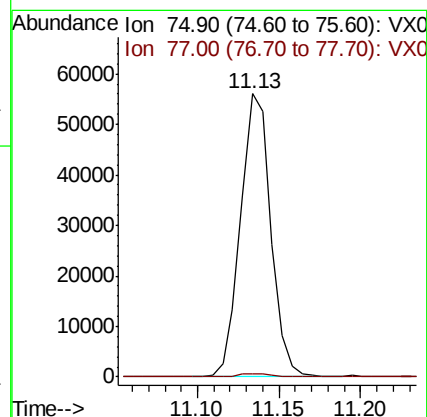
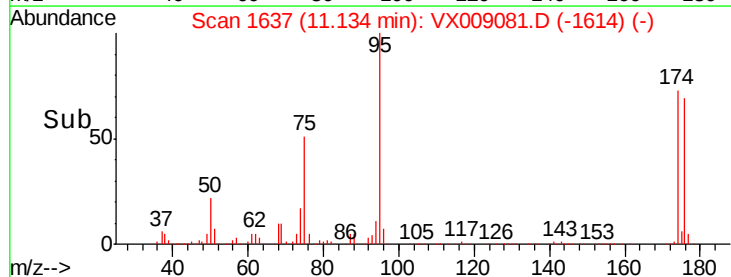
75 100

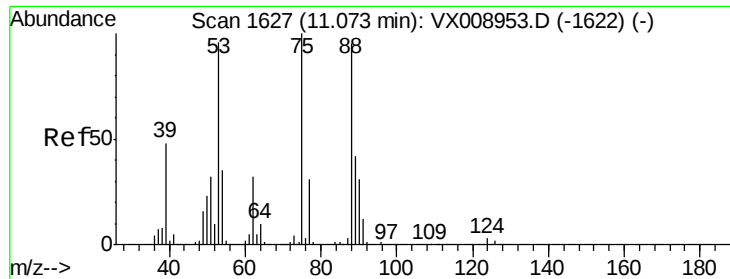
77 1.4 22.7 68.0#



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: 60.384 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009081.D

Acq: 19 Apr 2019 19:25

Instrument :

MSVOA_X

ClientSampleId :

SS040MW001-190417

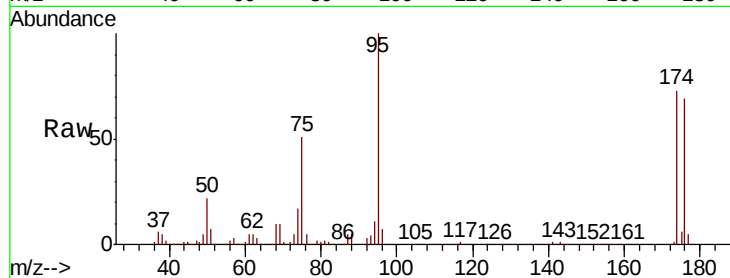
Tot Ion: 75 Resp: 72601

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.1 36.0 54.0#



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

