

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010938.D
 Acq On : 17 Jul 2019 16:06
 Operator : JC/SP
 Sample : K3855-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW506-190716

Quant Time: Jul 18 02:30:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	208697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	326728	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	302379	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139418	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	110604	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
35) Dibromofluoromethane	5.50	113	102282	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
50) Toluene-d8	8.71	98	391020	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.13	95	135408	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	

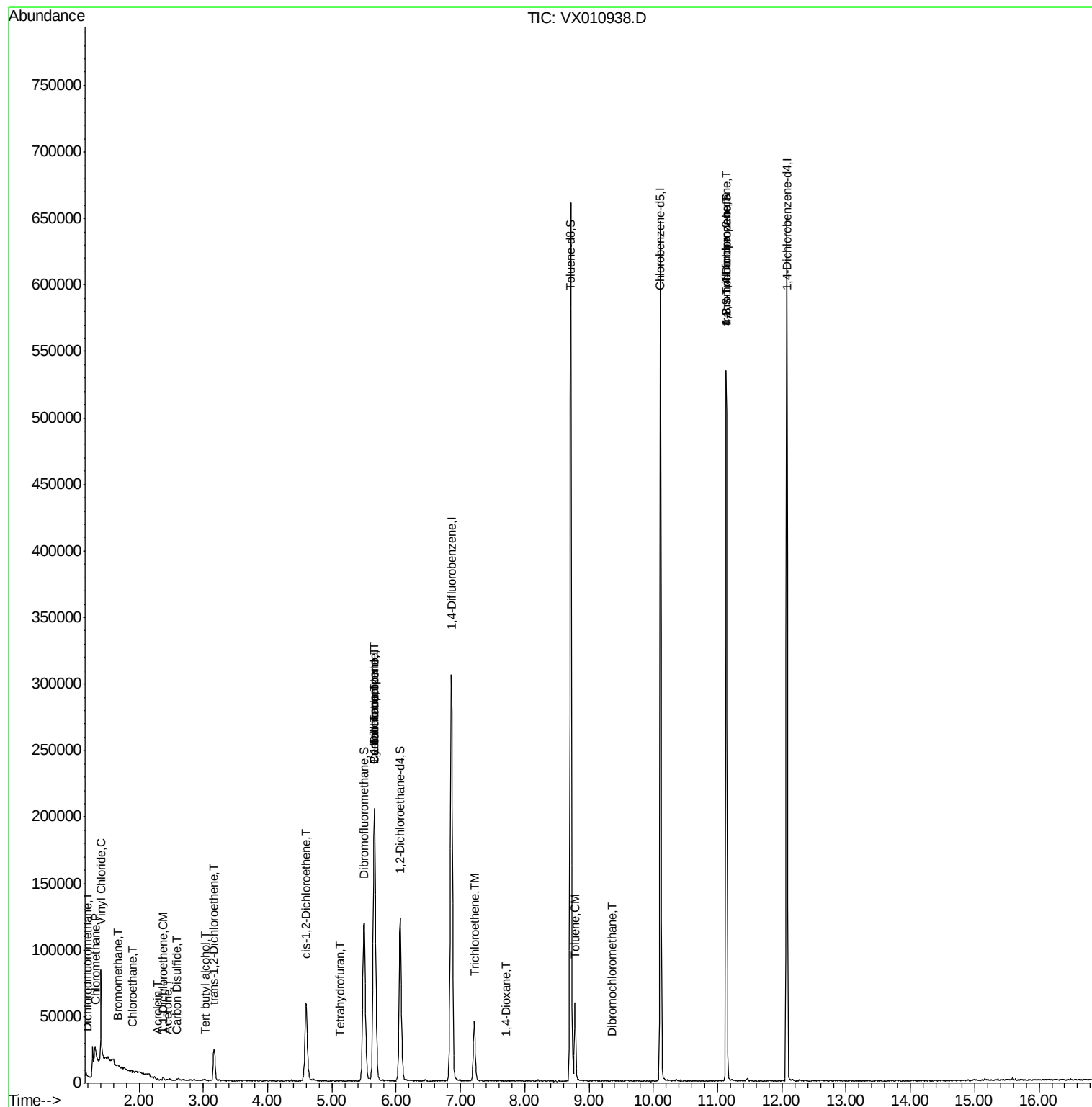
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	44	0.566	ug/l #	43
3) Chloromethane	1.33	50	836	0.436	ug/l #	80
4) Vinyl Chloride	1.41	62	42903	21.917	ug/l	99
5) Bromomethane	1.66	94	485	0.440	ug/l #	72
6) Chloroethane	1.90	64	935	0.752	ug/l #	43
11) Tert butyl alcohol	3.03	59	608	1.176	ug/l #	83
12) 1,1-Dichloroethene	2.38	96	650	0.350	ug/l #	83
13) Acrolein	2.29	56	166	0.556	ug/l #	1
16) Acetone	2.45	43	1109	1.106	ug/l	92
17) Carbon Disulfide	2.58	76	1096	0.230	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	10831	5.491	ug/l	95
27) cis-1,2-Dichloroethene	4.59	96	40392	17.695	ug/l	88
29) Tetrahydrofuran	5.12	42	211	0.231	ug/l #	29
31) Cyclohexane	5.66	56	4010	1.330	ug/l #	21
36) 1,1-Dichloropropene	5.66	75	13842	5.158	ug/l #	48
38) Carbon Tetrachloride	5.66	117	19204	6.867	ug/l #	16
44) Trichloroethene	7.21	130	17568	7.219	ug/l	88
49) 1,4-Dioxane	7.71	88	22	0.357	ug/l #	13
52) Toluene	8.79	92	22089	4.090	ug/l	98
60) Dibromochloromethane	9.35	129	24	2.537	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	67083	26.664	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67083	66.157	ug/l #	11

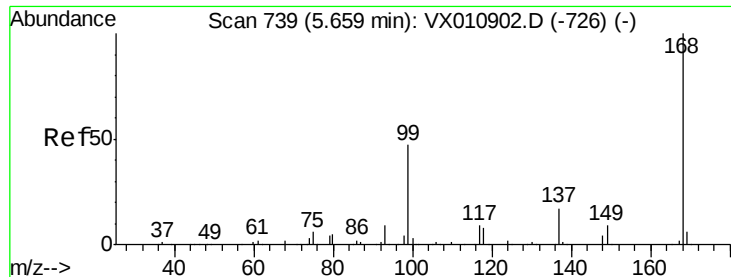
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 17 06:57:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

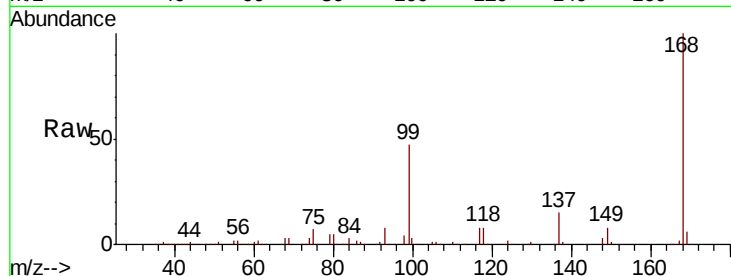
SS050MW506-190716

Tot Ion:168 Resp: 208697

Ion Ratio Lower Upper

168 100

99 47.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

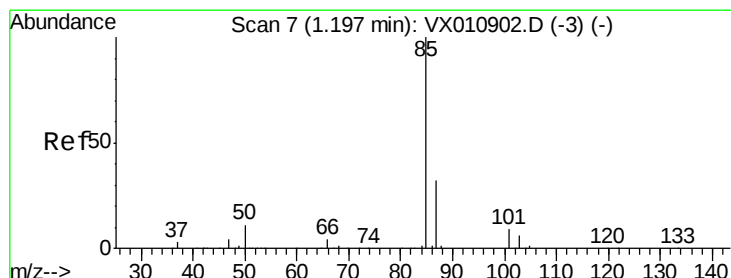
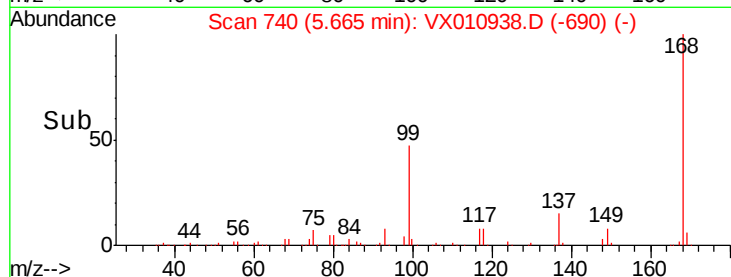
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.566 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010938.D

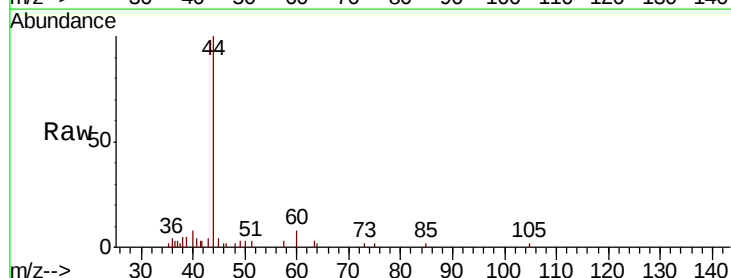
Acq: 17 Jul 2019 16:06

Tgt Ion: 85 Resp: 44

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60

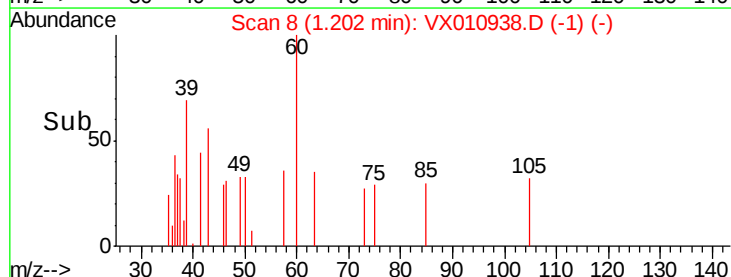
40

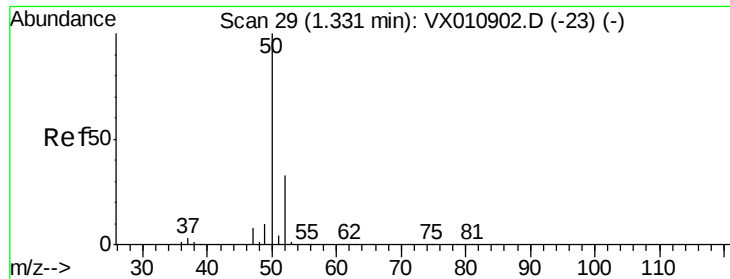
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: 0.436 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

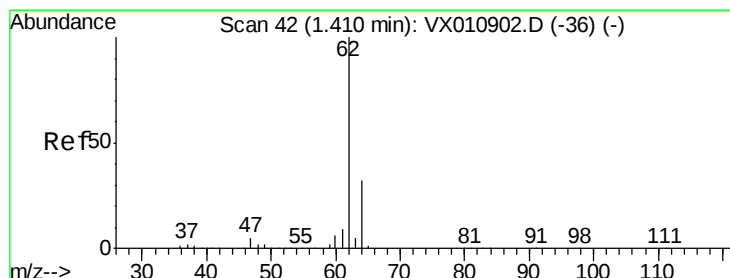
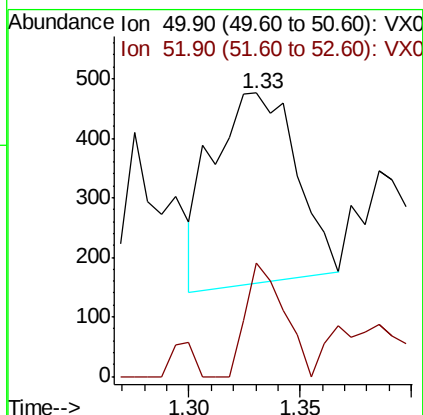
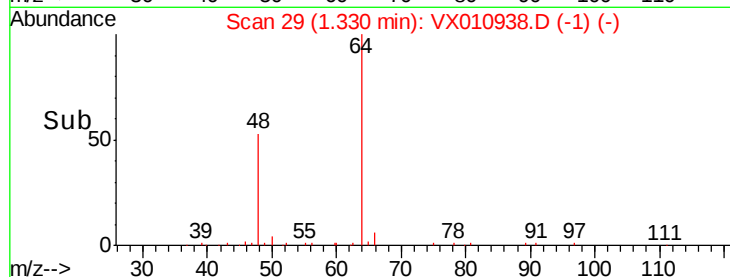
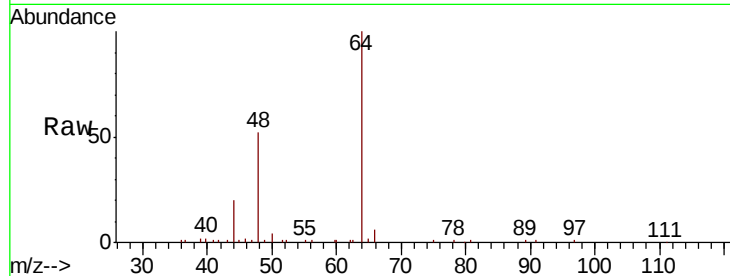
SS050MW506-190716

Tot Ion: 50 Resp: 836

Ion Ratio Lower Upper

50 100

52 44.3 26.4 39.6#



#4

Vinyl Chloride

Concen: 21.917 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010938.D

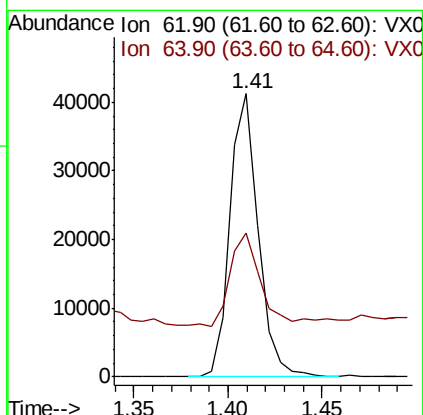
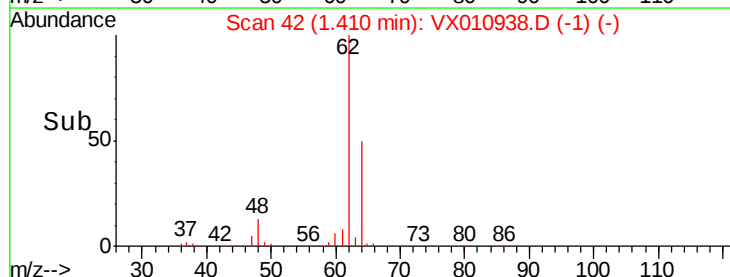
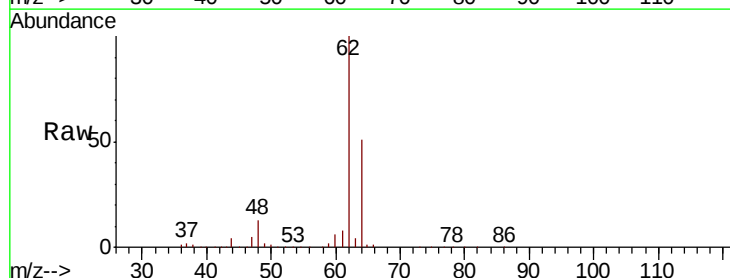
Acq: 17 Jul 2019 16:06

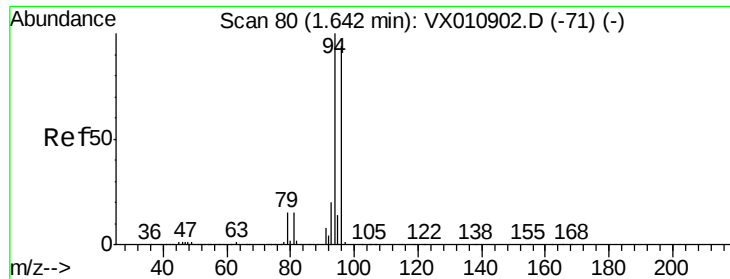
Tgt Ion: 62 Resp: 42903

Ion Ratio Lower Upper

62 100

64 32.5 25.7 38.5





#5

Bromomethane

Concen: 0.440 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

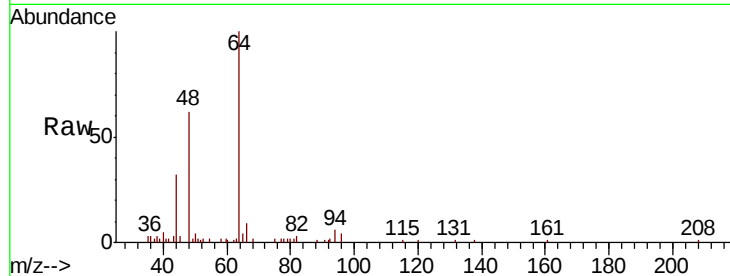
SS050MW506-190716

Tot Ion: 94 Resp: 485

Ion Ratio Lower Upper

94 100

96 67.1 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

250

200

150

100

50

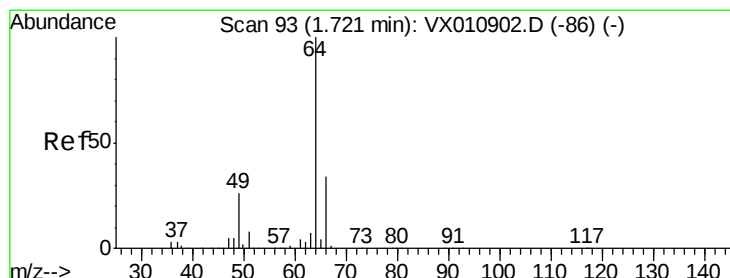
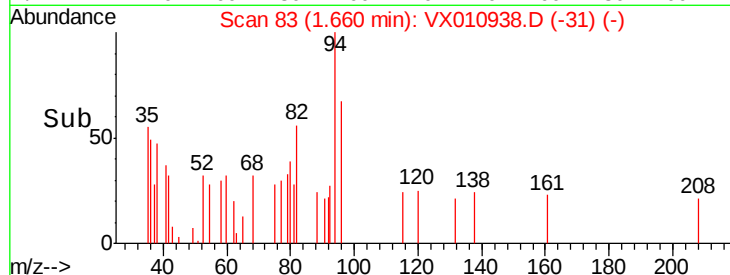
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.752 ug/l

RT: 1.90 min Scan# 123

Delta R.T. 0.18 min

Lab File: VX010938.D

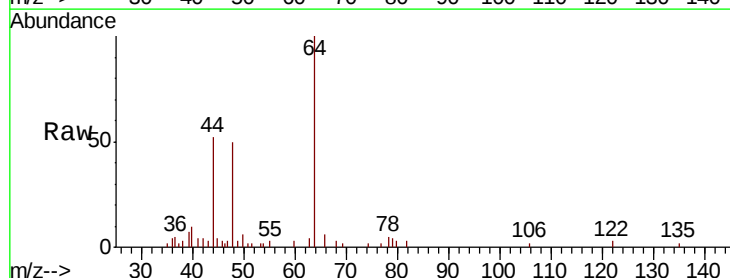
Acq: 17 Jul 2019 16:06

Tgt Ion: 64 Resp: 935

Ion Ratio Lower Upper

64 100

66 1.2 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

3000

2500

2000

1500

1000

500

0

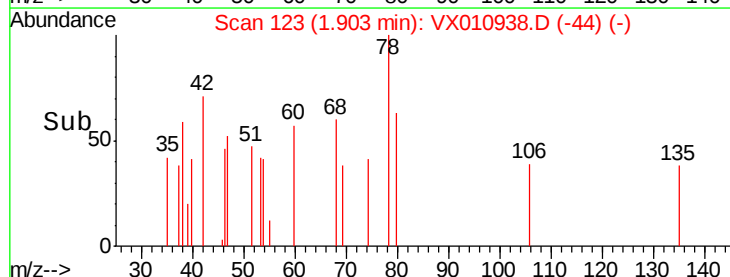
1.88

1.90

1.92

1.94

Time-->

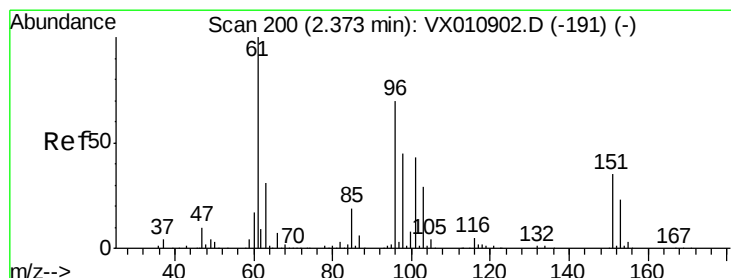
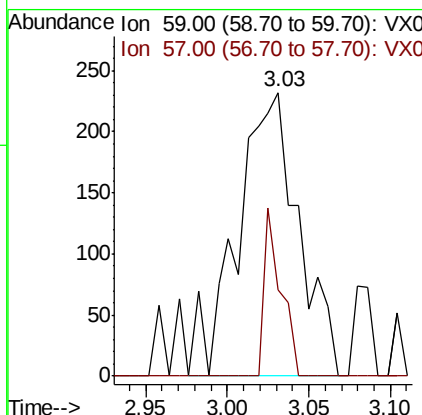
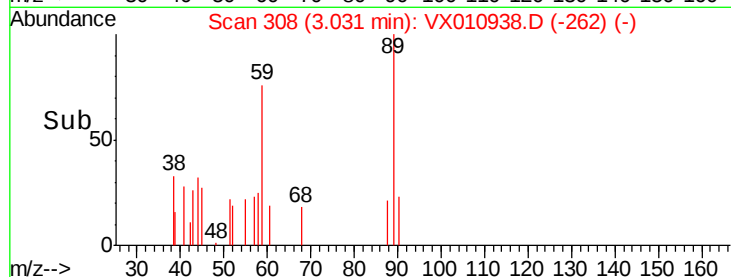
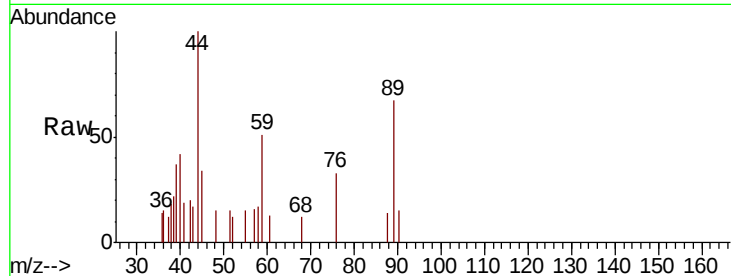




#11
Tert butyl alcohol
Concen: 1.176 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

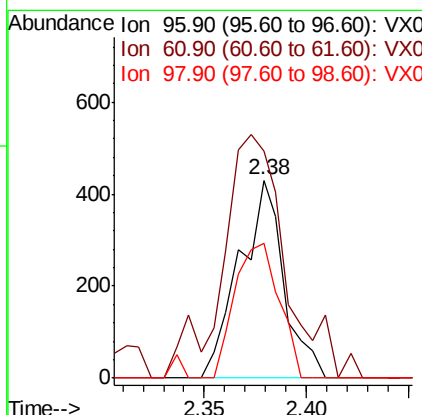
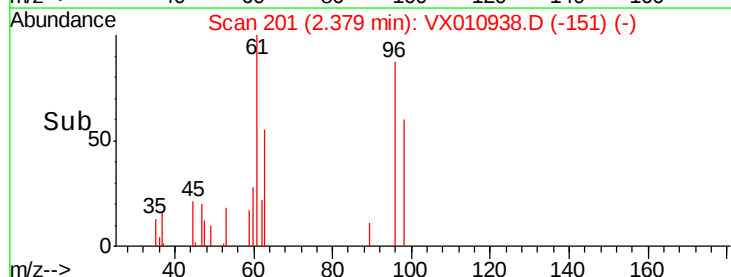
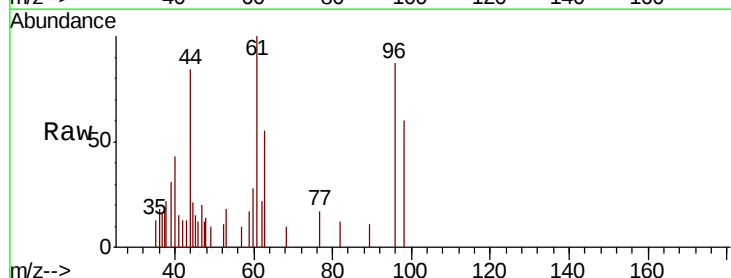
Instrument :
MSVOA_X
ClientSampleId :
SS050MW506-190716

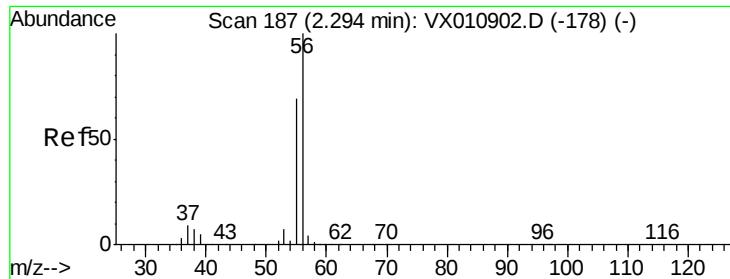
Tot Ion: 59 Resp: 608
Ion Ratio Lower Upper
59 100
57 16.1 7.9 11.9#



#12
1,1-Dichloroethene
Concen: 0.350 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

Tgt Ion: 96 Resp: 650
Ion Ratio Lower Upper
96 100
61 114.9 115.0 172.4#
98 68.4 52.2 78.2





#13

Acrolein

Concen: 0.556 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

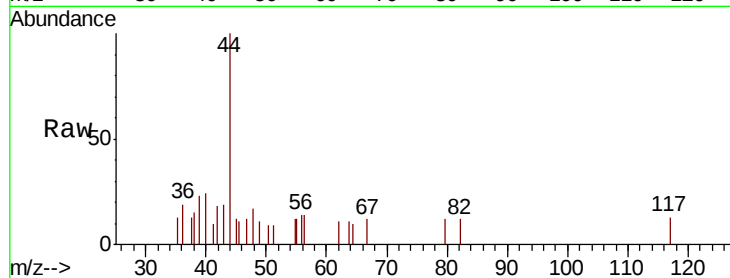
SS050MW506-190716

Tot Ion: 56 Resp: 166

Ion Ratio Lower Upper

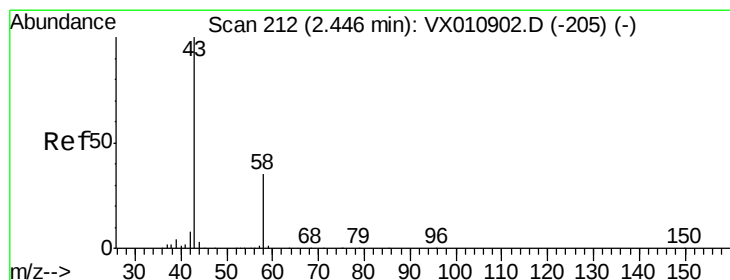
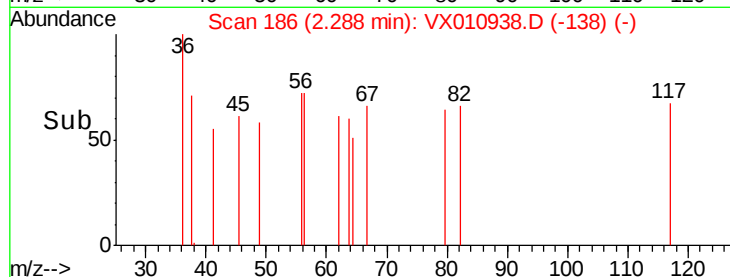
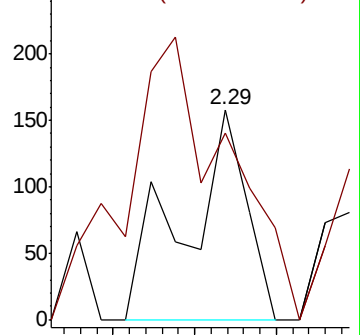
56 100

55 224.1 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.106 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010938.D

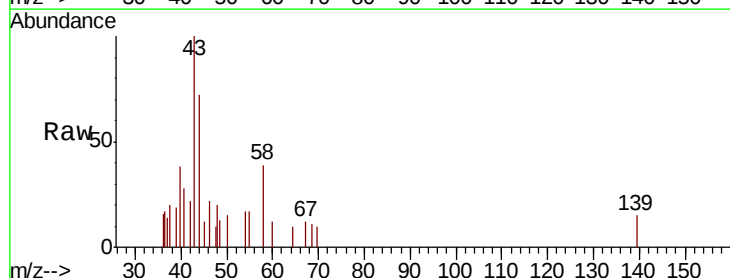
Acq: 17 Jul 2019 16:06

Tgt Ion: 43 Resp: 1109

Ion Ratio Lower Upper

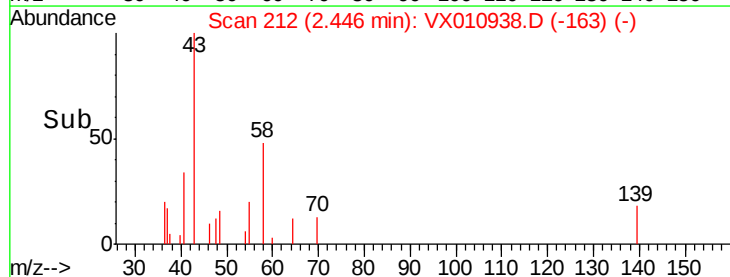
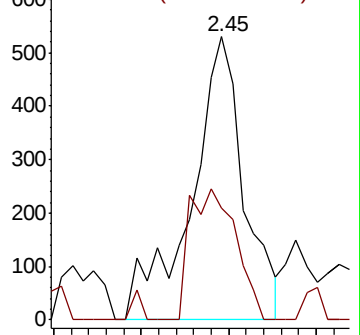
43 100

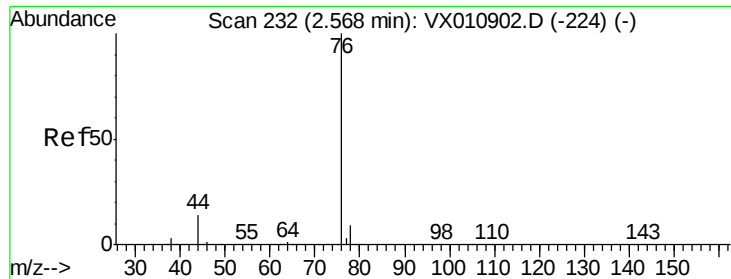
58 39.4 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

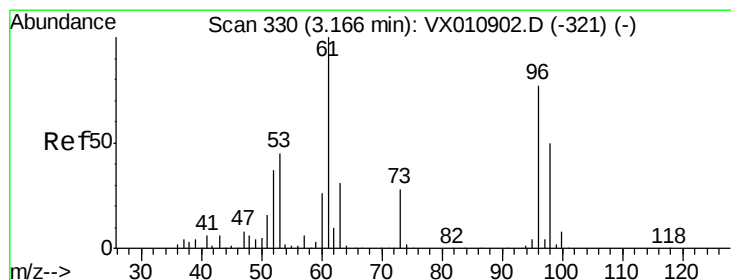
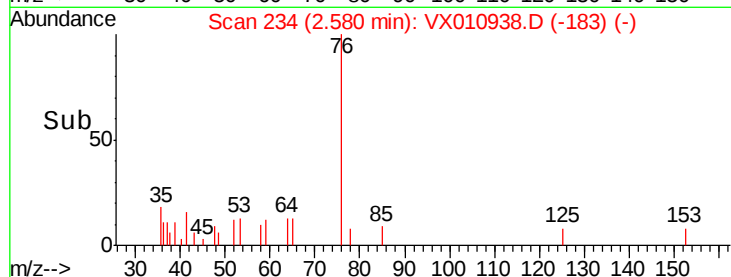
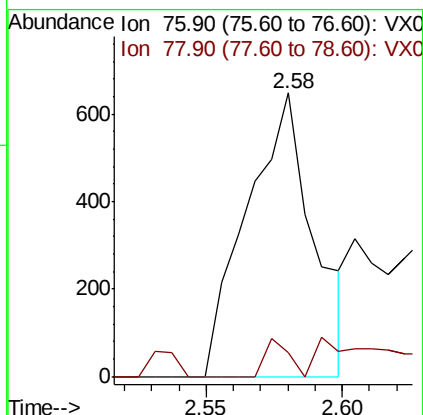
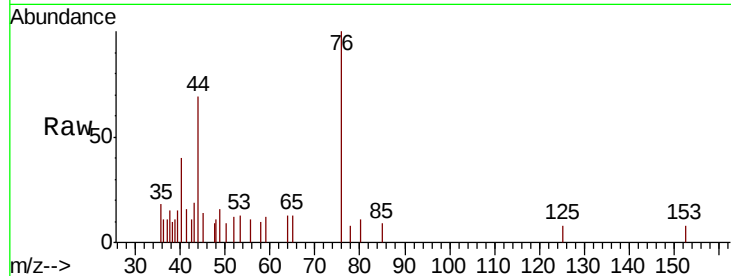




#17
Carbon Disulfide
Concen: 0.230 ug/l
RT: 2.58 min Scan# 234
Delta R.T. 0.01 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

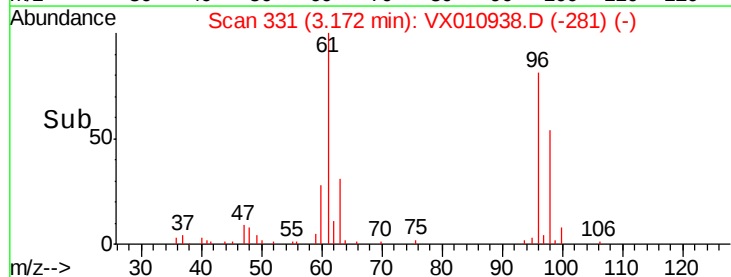
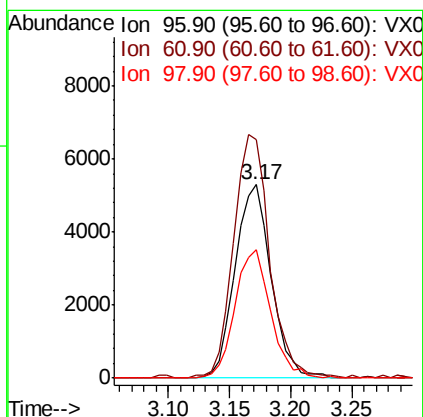
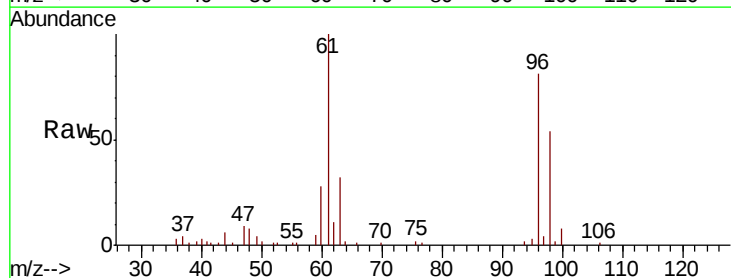
Instrument :
MSVOA_X
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SS050MW506-190716

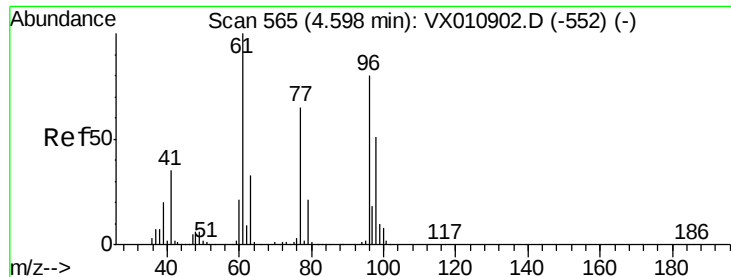
Tot Ion: 76 Resp: 1096
Ion Ratio Lower Upper
76 100
78 8.3 7.4 11.0



#21
trans-1,2-Dichloroethene
Concen: 5.491 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

Tgt Ion: 96 Resp: 10831
Ion Ratio Lower Upper
96 100
61 123.1 104.2 156.2
98 66.6 52.2 78.4



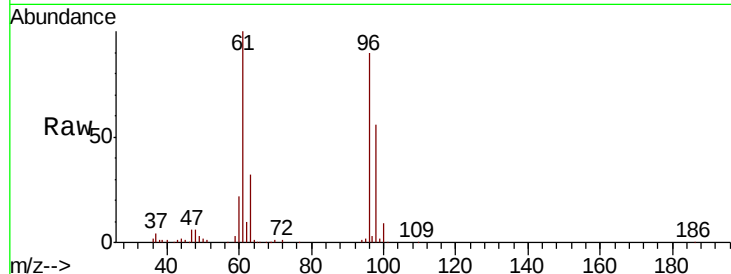


#27

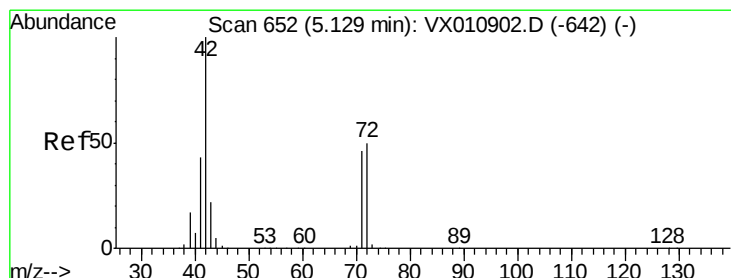
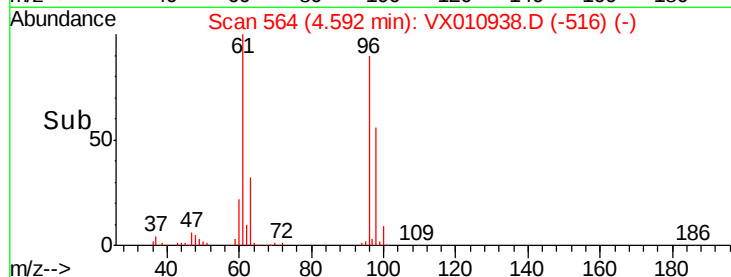
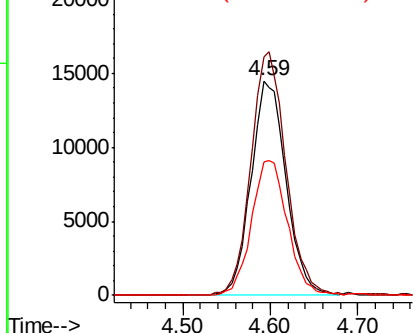
cis-1,2-Dichloroethene
 Concen: 17.695 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX010938.D
 Acq: 17 Jul 2019 16:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW506-190716

Tot Ion: 96 Resp: 40392
 Ion Ratio Lower Upper
 96 100
 61 113.8 0.0 269.0
 98 64.6 0.0 131.4



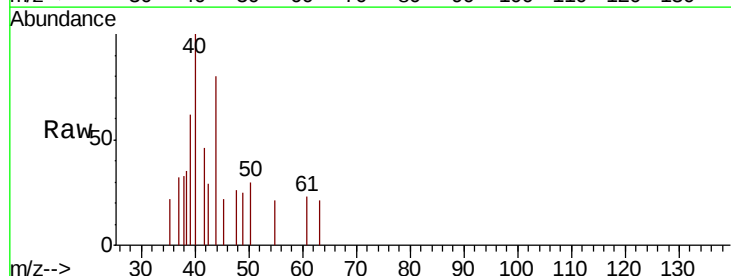
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



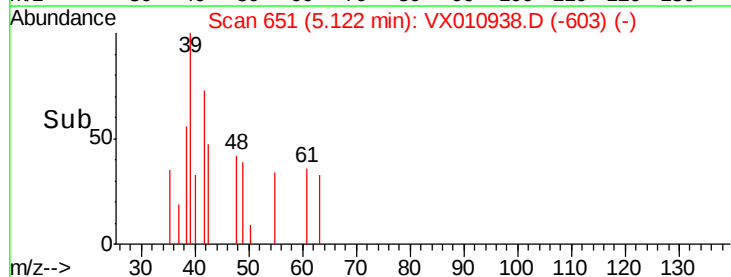
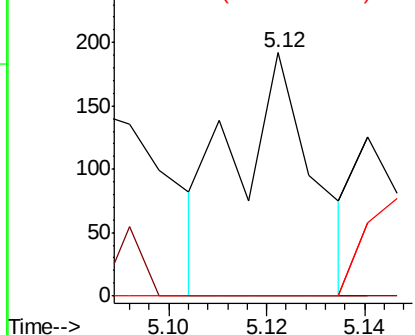
#29

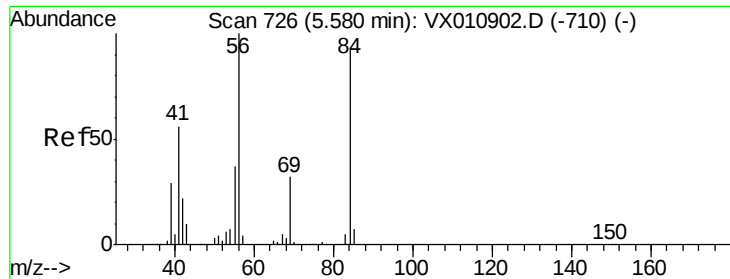
Tetrahydrofuran
 Concen: 0.231 ug/l
 RT: 5.12 min Scan# 651
 Delta R.T. -0.01 min
 Lab File: VX010938.D
 Acq: 17 Jul 2019 16:06

Tgt Ion: 42 Resp: 211
 Ion Ratio Lower Upper
 42 100
 72 0.0 39.8 59.8#
 71 0.0 37.0 55.4#



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

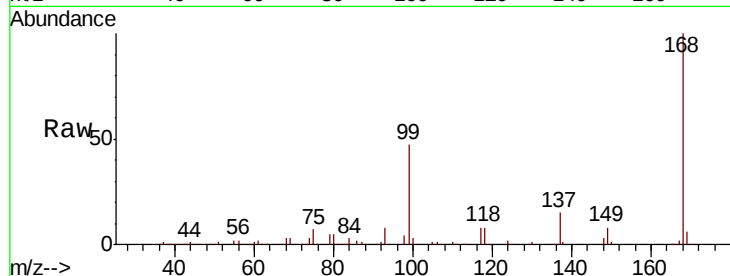




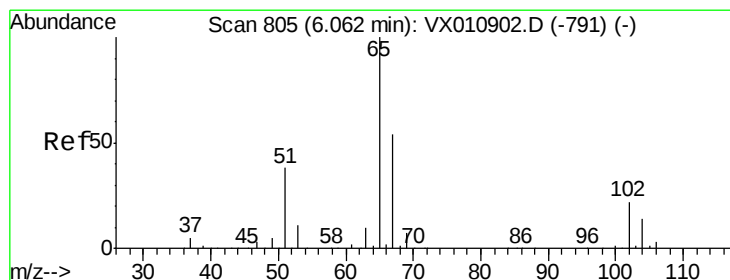
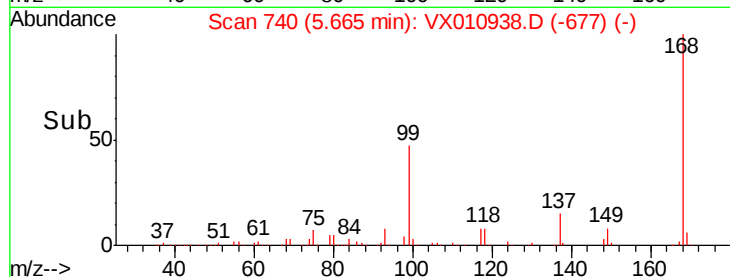
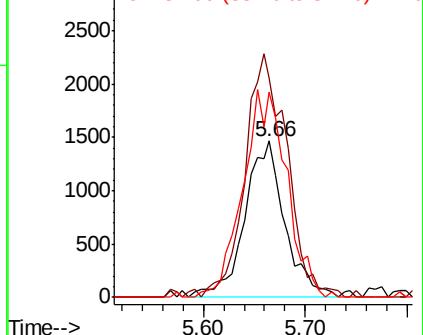
#31
Cyclohexane
Concen: 1.330 ug/l
RT: 5.66 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

Instrument :
MSVOA_X
ClientSampleId :
SS050MW506-190716

Tot Ion: 56 Resp: 4010
Ion Ratio Lower Upper
56 100
69 136.6 25.8 38.8#
84 131.2 73.8 110.6#

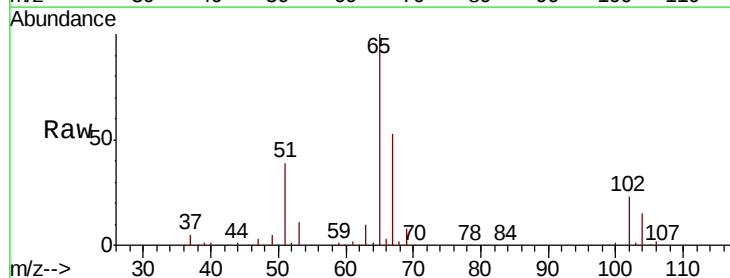


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

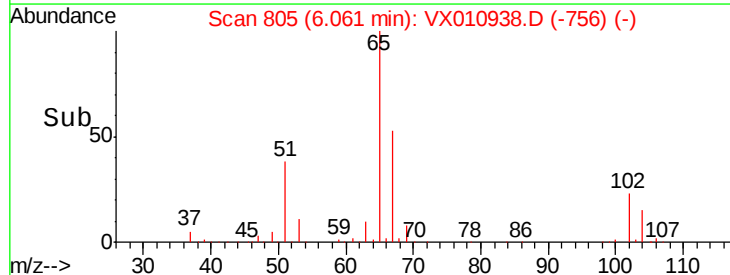
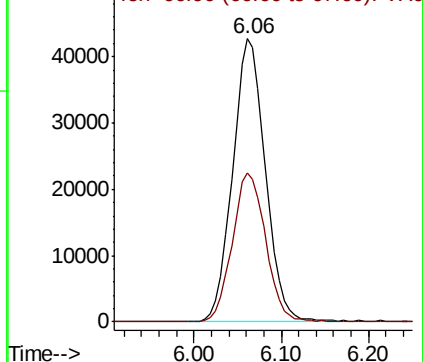


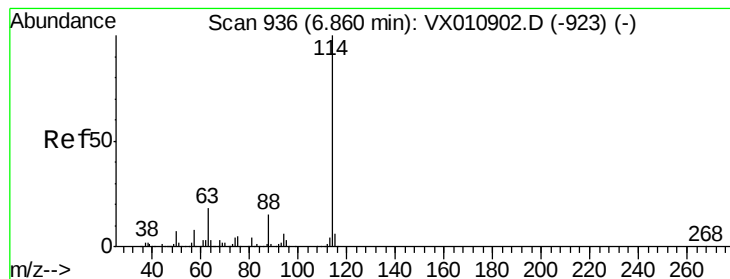
#33
1,2-Dichloroethane-d4
Concen: 49.817 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

Tgt Ion: 65 Resp: 110604
Ion Ratio Lower Upper
65 100
67 54.0 0.0 107.8



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: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

SS050MW506-190716

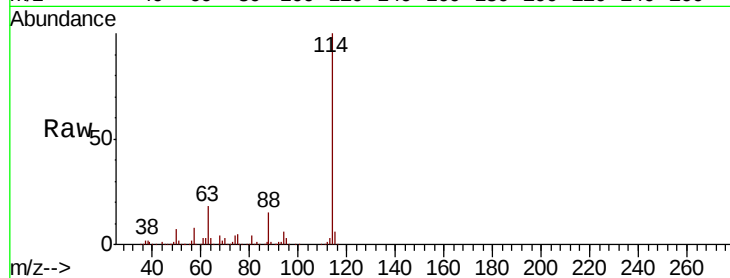
Tot Ion:114 Resp: 326728

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

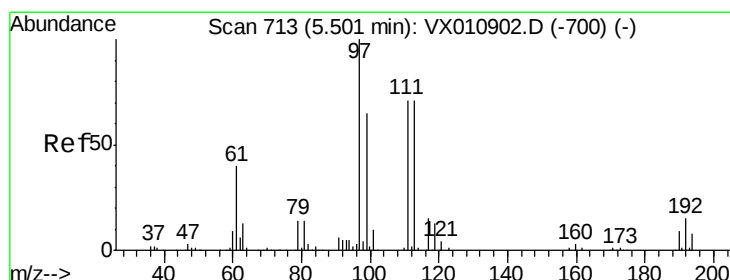
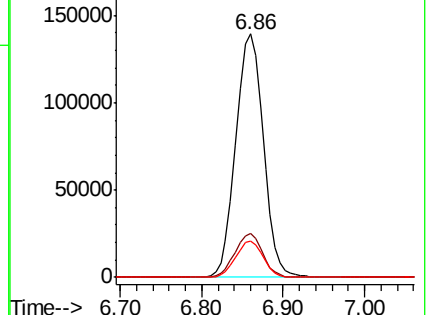
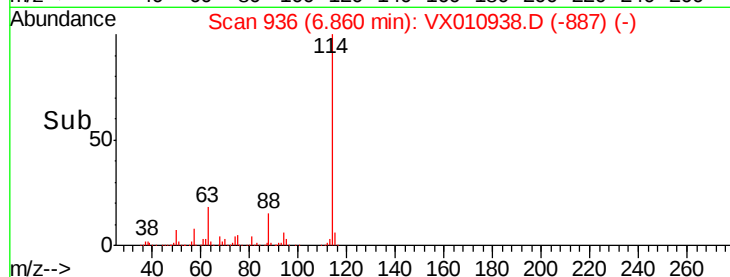
88 14.8 0.0 29.8



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



#35

Dibromofluoromethane

Concen: 49.321 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

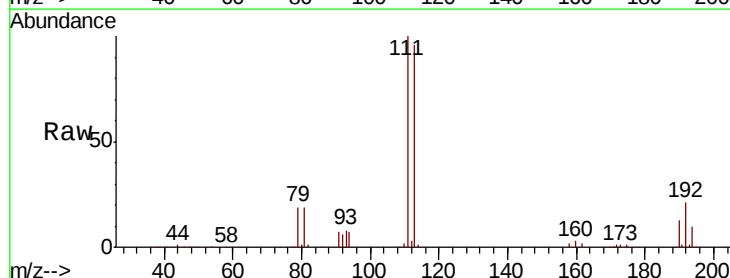
Tgt Ion:113 Resp: 102282

Ion Ratio Lower Upper

113 100

111 103.1 82.3 123.5

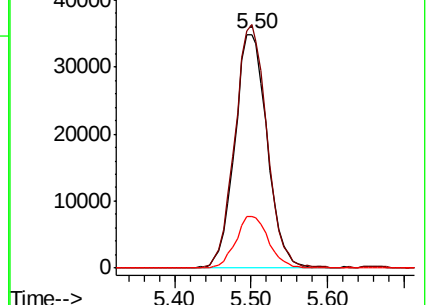
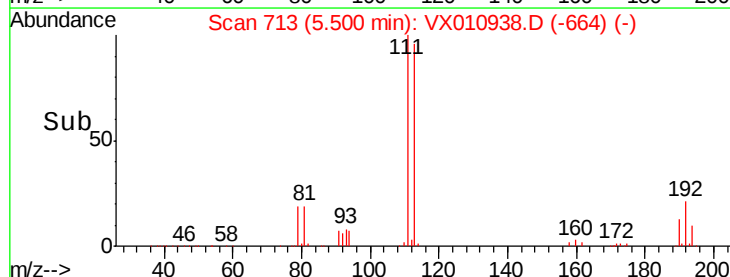
192 22.3 17.4 26.2

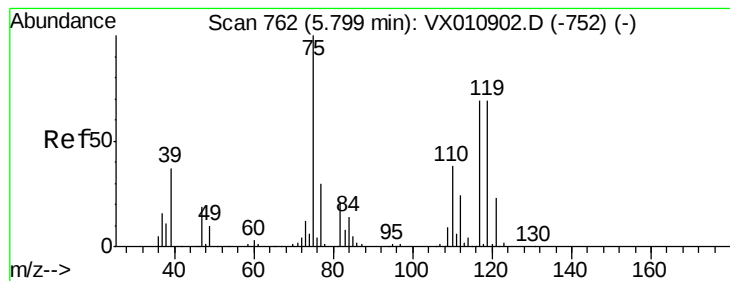


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.158 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

SS050MW506-190716

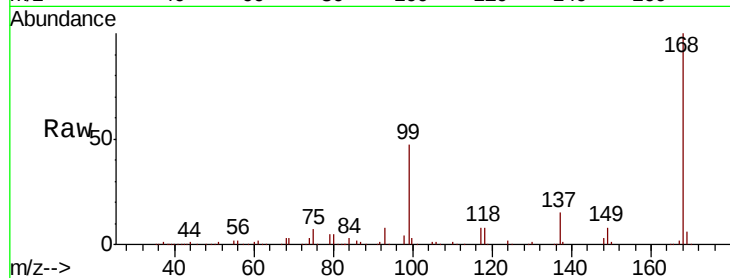
Tot Ion: 75 Resp: 13842

Ion Ratio Lower Upper

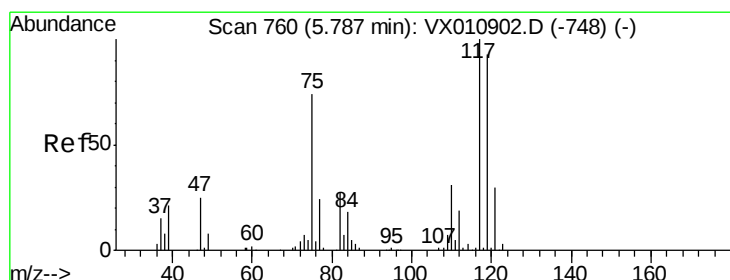
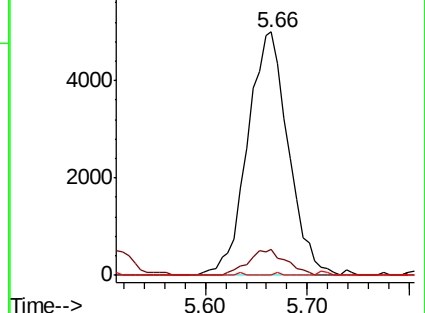
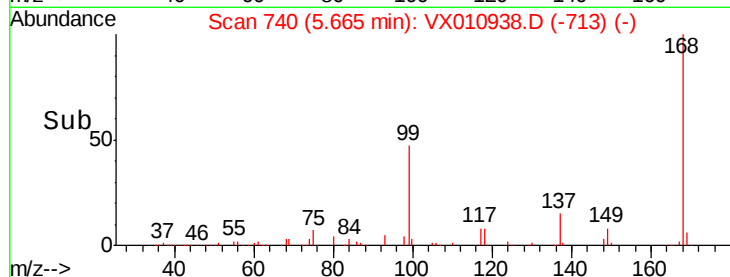
75 100

110 9.9 19.9 59.7#

77 0.2 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX010938.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.867 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

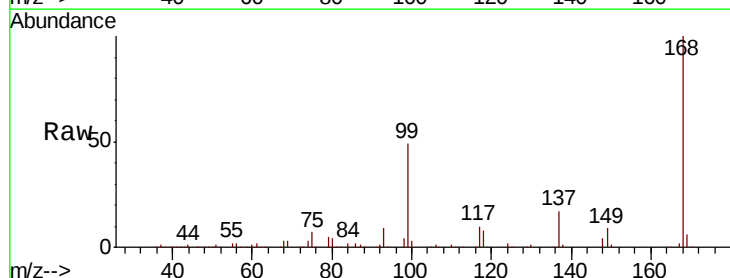
Tgt Ion: 117 Resp: 19204

Ion Ratio Lower Upper

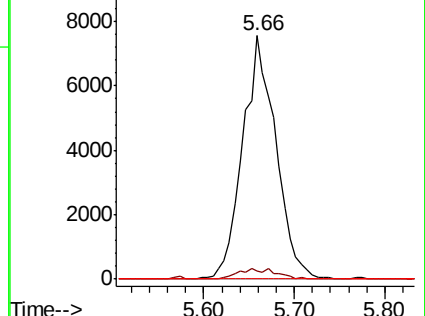
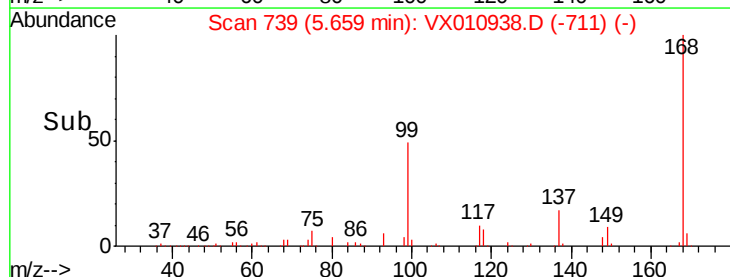
117 100

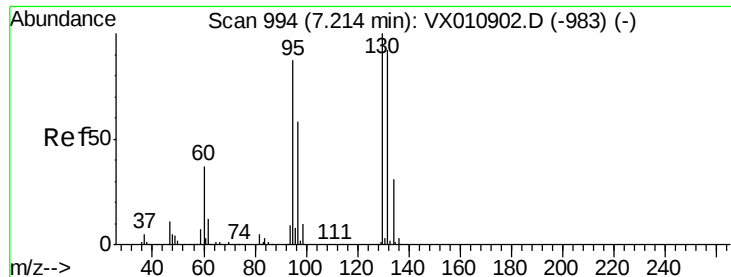
119 3.3 74.2 111.2#

121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): VX010938.D (-711) (-)





#44

Trichloroethene

Concen: 7.219 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

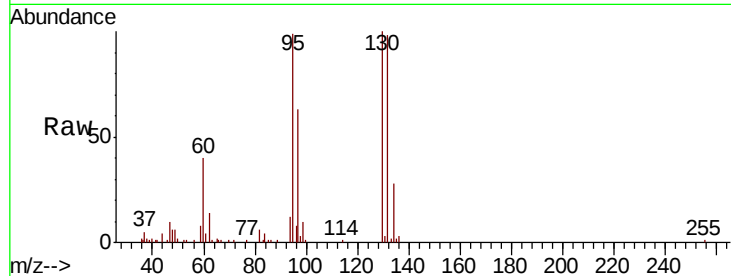
SS050MW506-190716

Tot Ion:130 Resp: 17568

Ion Ratio Lower Upper

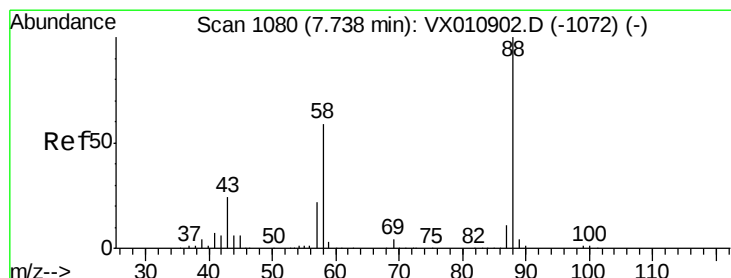
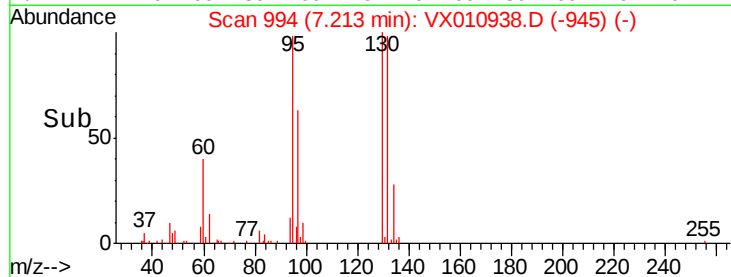
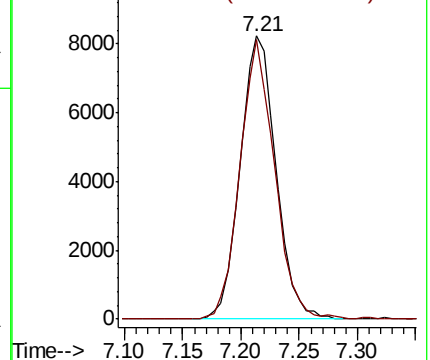
130 100

95 98.7 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.357 ug/l

RT: 7.71 min Scan# 1075

Delta R.T. -0.03 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

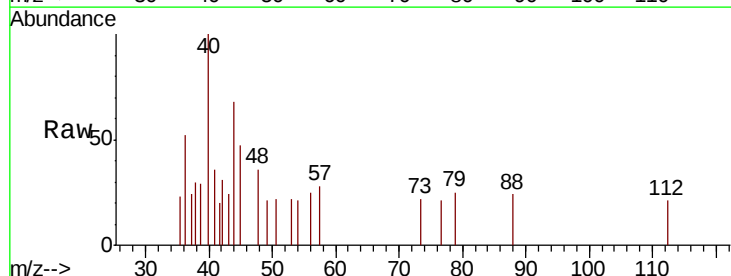
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 0.0 22.9 34.3#

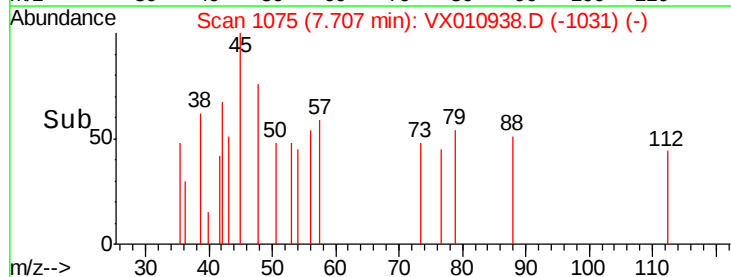
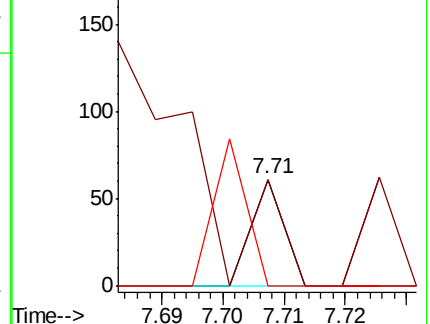
58 140.9 49.8 74.8#

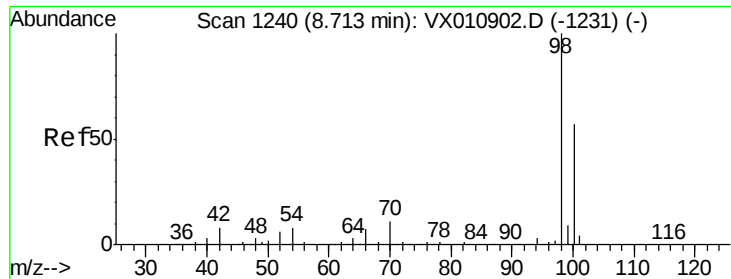


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

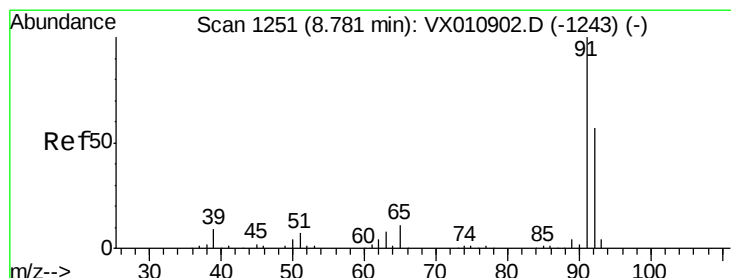
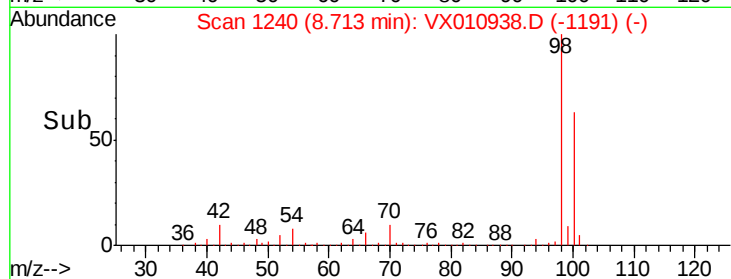
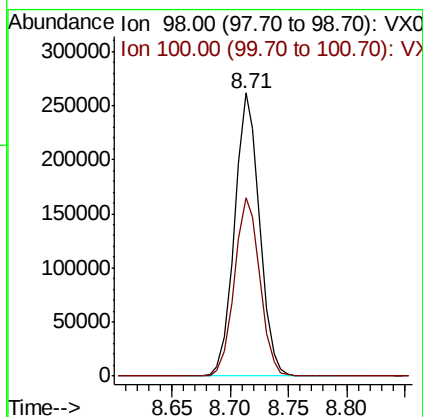
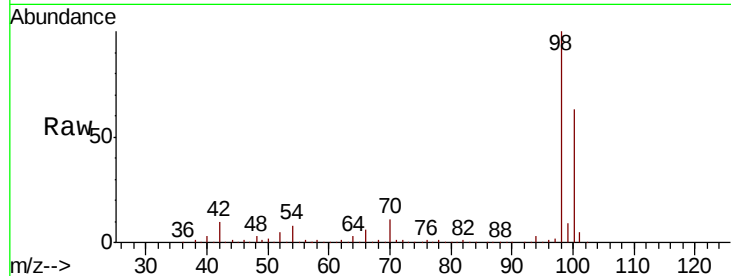




#50
Toluene-d8
Concen: 50.272 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

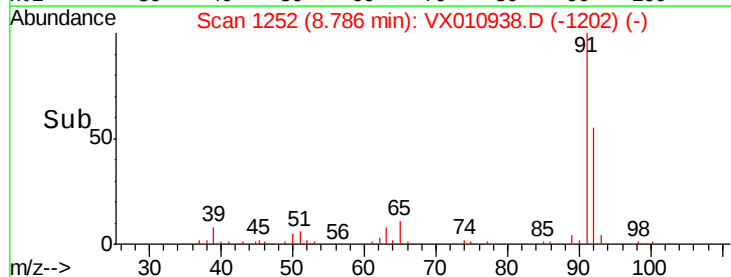
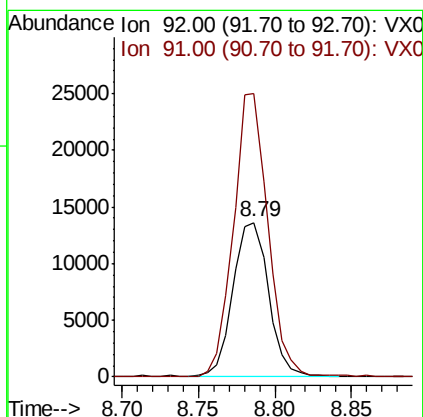
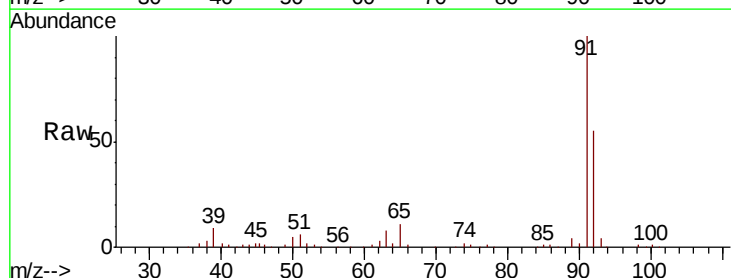
Instrument :
MSVOA_X
ClientSampleId :
SS050MW506-190716

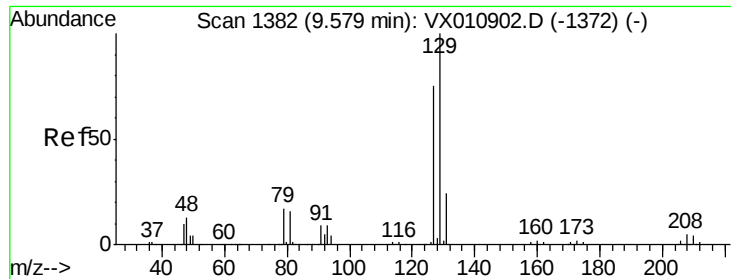
Tot Ion: 98 Resp: 391020
Ion Ratio Lower Upper
98 100
100 64.0 50.6 75.8



#52
Toluene
Concen: 4.090 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX010938.D
Acq: 17 Jul 2019 16:06

Tgt Ion: 92 Resp: 22089
Ion Ratio Lower Upper
92 100
91 177.1 139.4 209.0





#60

Dibromochloromethane

Concen: 2.537 ug/l

RT: 9.35 min Scan# 1344

Delta R.T. -0.23 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

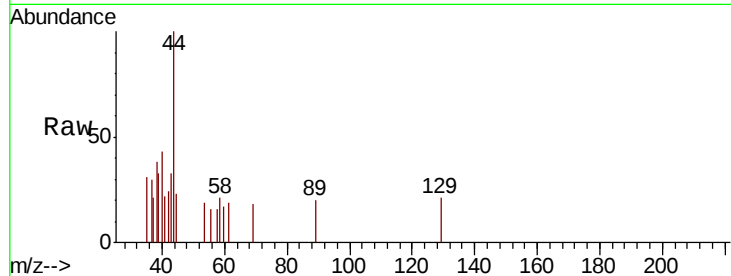
SS050MW506-190716

Tot Ion:129 Resp: 24

Ion Ratio Lower Upper

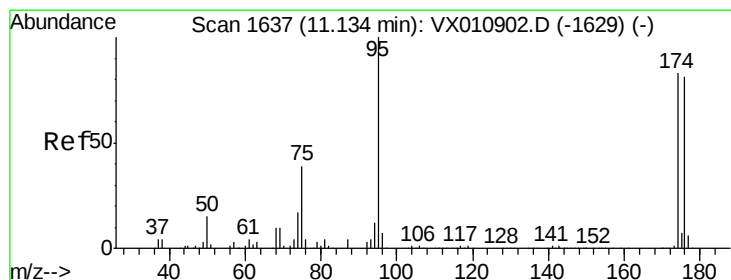
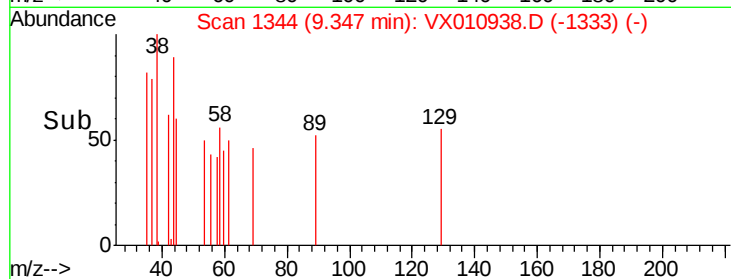
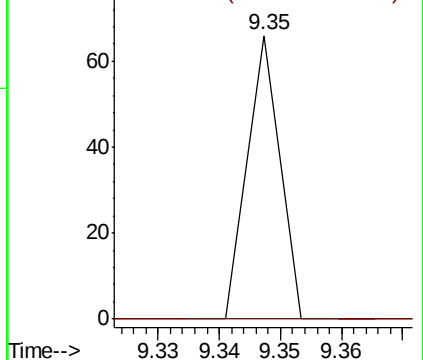
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.362 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

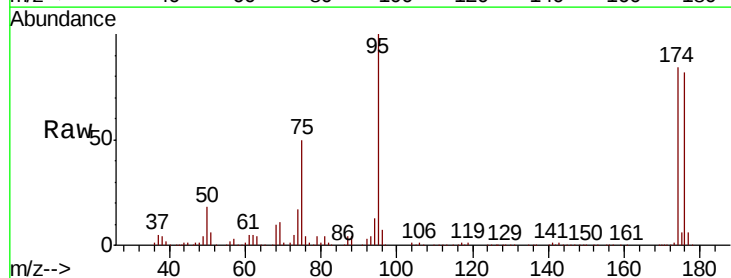
Tgt Ion: 95 Resp: 135408

Ion Ratio Lower Upper

95 100

174 92.3 0.0 180.6

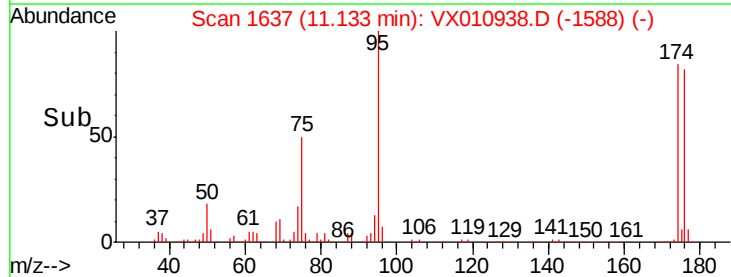
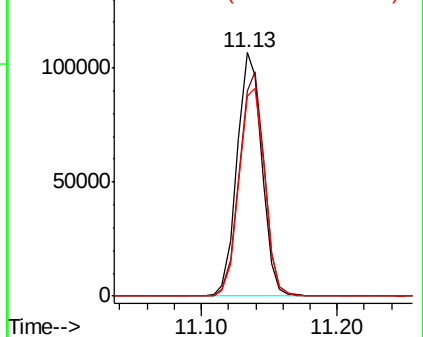
176 88.7 0.0 173.8

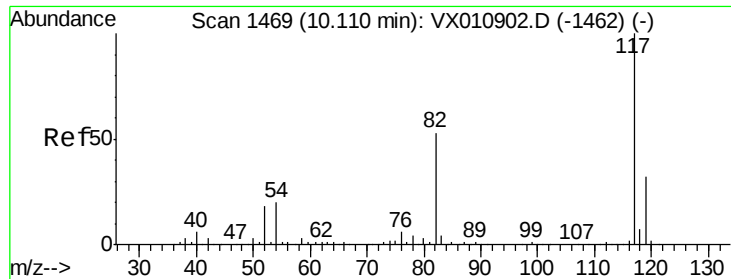


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

SS050MW506-190716

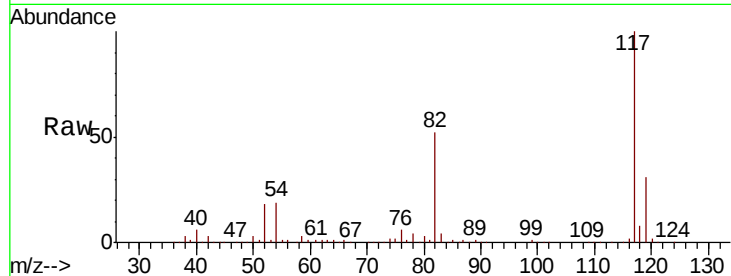
Tot Ion:117 Resp: 302379

Ion Ratio Lower Upper

117 100

82 52.0 42.6 63.8

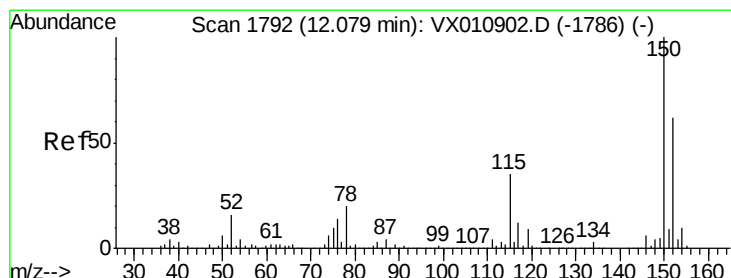
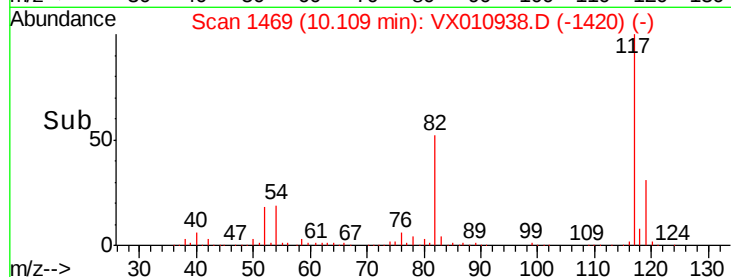
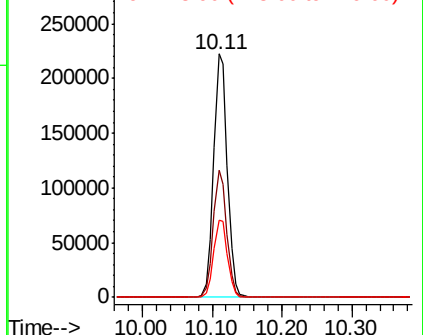
119 31.5 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

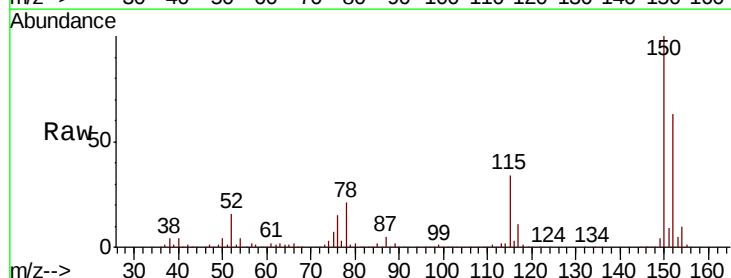
Tgt Ion:152 Resp: 139418

Ion Ratio Lower Upper

152 100

115 55.0 39.7 119.1

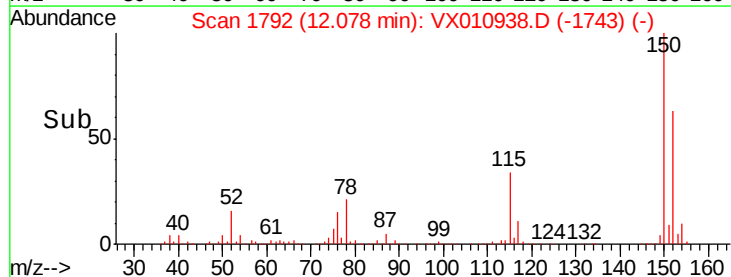
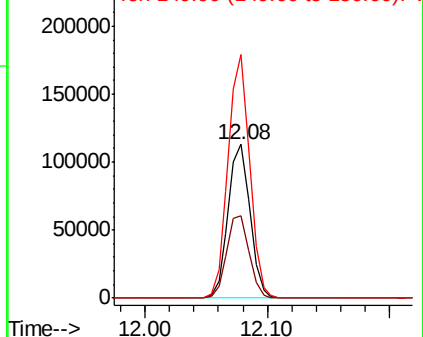
150 156.7 0.0 345.6

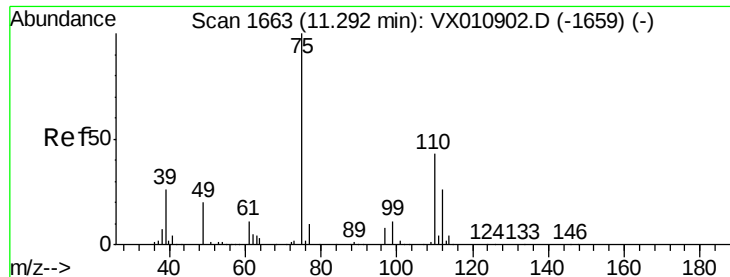


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.664 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

Instrument :

MSVOA_X

ClientSampleId :

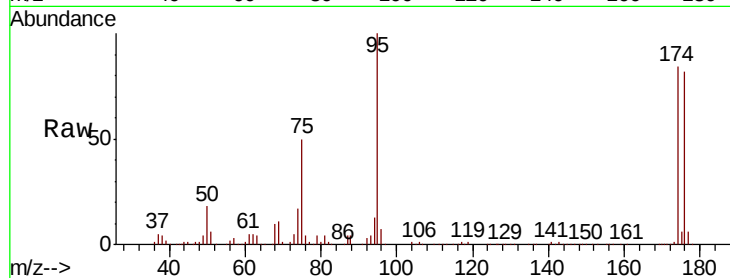
SS050MW506-190716

Tot Ion: 75 Resp: 67083

Ion Ratio Lower Upper

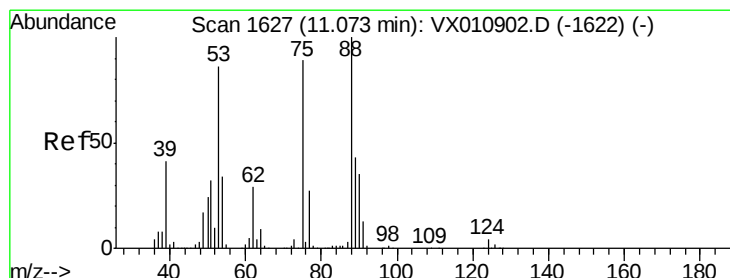
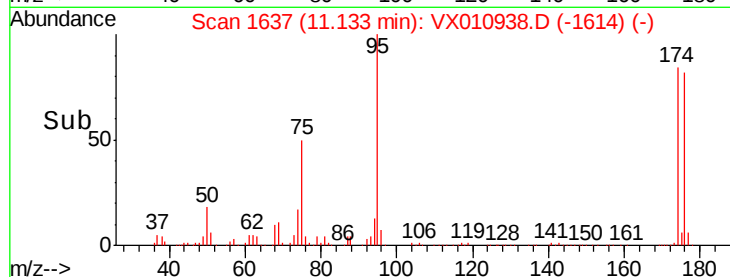
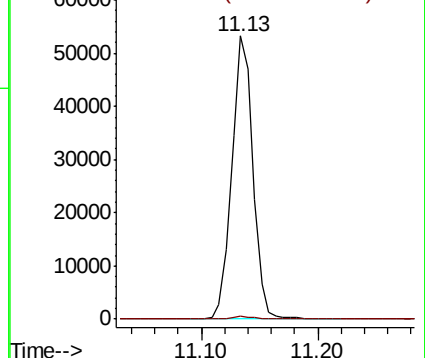
75 100

77 1.2 21.3 64.0#



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: 66.157 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010938.D

Acq: 17 Jul 2019 16:06

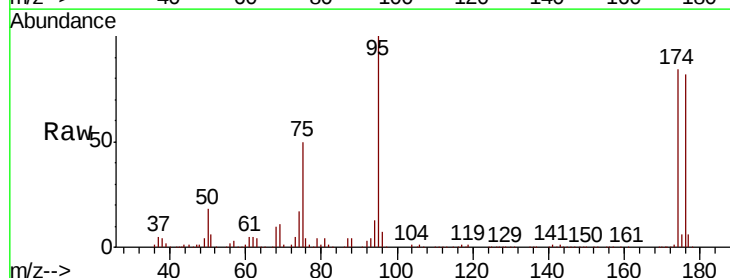
Tgt Ion: 75 Resp: 67083

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



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

