

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009640.D
 Acq On : 17 May 2019 04:50
 Operator : JC/SP
 Sample : K2887-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW730-190515

Quant Time: May 17 06:45:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

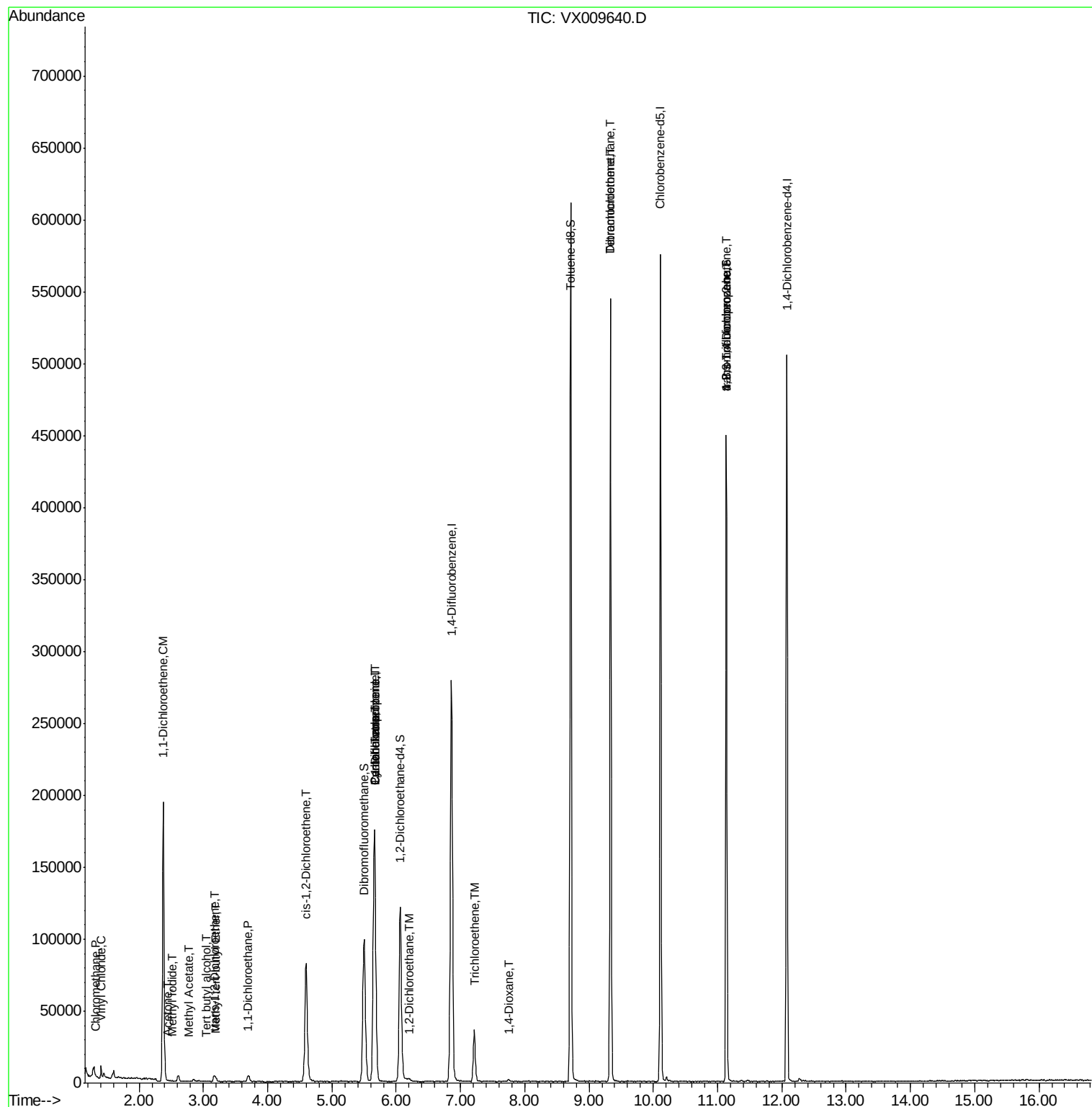
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	170847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	273327	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	242722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	104087	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	115753	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
35) Dibromofluoromethane	5.50	113	84818	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
50) Toluene-d8	8.71	98	347845	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.13	95	114625	45.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.94%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	632	0.294	ug/l	90
4) Vinyl Chloride	1.41	62	4683	2.234	ug/l	99
10) Methyl Iodide	2.51	142	27	4.607	ug/l #	42
11) Tert butyl alcohol	3.04	59	184	0.341	ug/l #	2
12) 1,1-Dichloroethene	2.37	96	62986	39.292	ug/l	96
16) Acetone	2.45	43	551	0.440	ug/l #	70
18) Methyl Acetate	2.78	43	699	0.235	ug/l #	88
19) Methyl tert-butyl Ether	3.20	73	1971	0.317	ug/l	93
21) trans-1,2-Dichloroethene	3.17	96	1616	0.930	ug/l #	74
24) 1,1-Dichloroethane	3.70	63	4532	1.223	ug/l #	95
27) cis-1,2-Dichloroethene	4.60	96	50628	24.398	ug/l	91
28) Bromochloromethane	5.03	49	65	Below Cal	#	20
31) Cyclohexane	5.66	56	3755	1.089	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13411	5.280	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16134	6.991	ug/l #	17
42) 1,2-Dichloroethane	6.20	62	1838	0.652	ug/l	95
44) Trichloroethene	7.22	130	13366	7.033	ug/l	97
49) 1,4-Dioxane	7.75	88	1131	19.857	ug/l #	74
60) Dibromochloromethane	9.34	129	97971	51.454	ug/l #	11
64) Tetrachloroethene	9.34	164	106037	63.687	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	59098	24.477	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59098	62.627	ug/l #	10

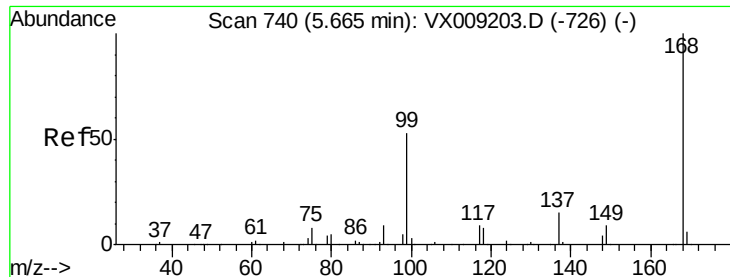
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: May 17 06:45:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 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: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

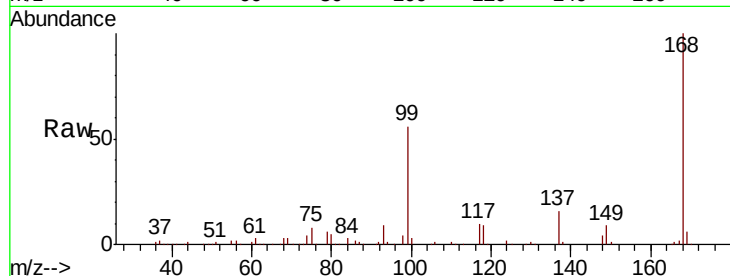
SS052MW730-190515

Tot Ion:168 Resp: 170847

Ion Ratio Lower Upper

168 100

99 55.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

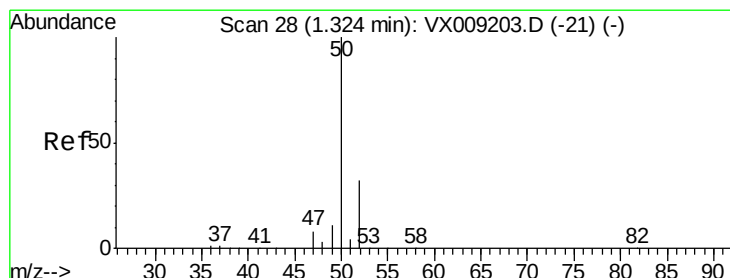
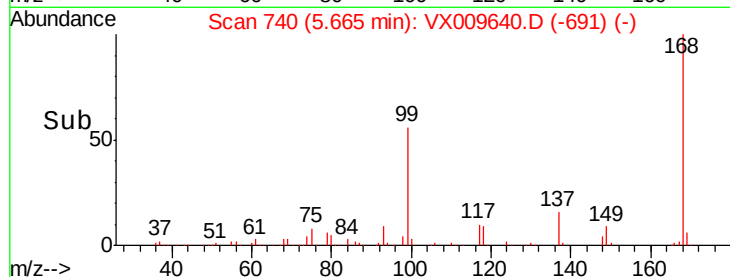
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.294 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009640.D

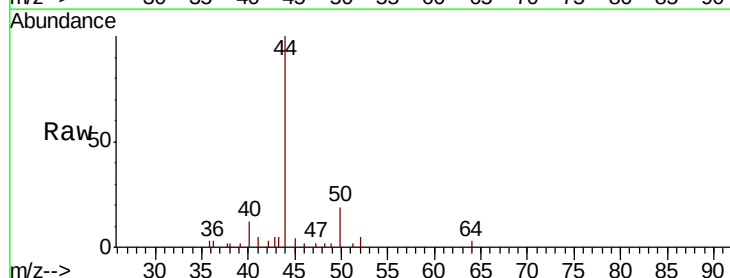
Acq: 17 May 2019 04:50

Tgt Ion: 50 Resp: 632

Ion Ratio Lower Upper

50 100

52 26.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

500

400

300

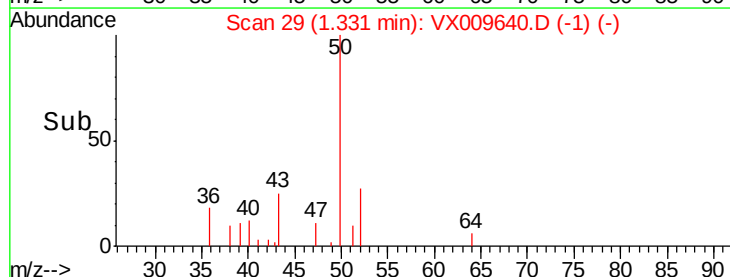
200

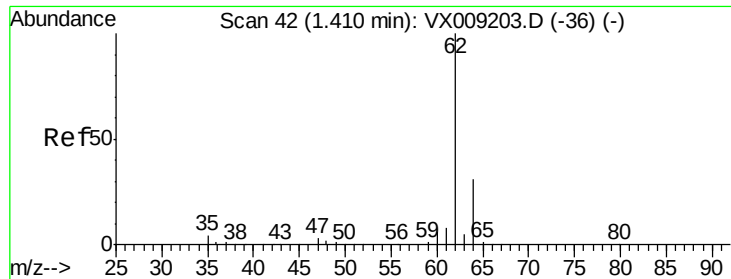
100

0

Time-->

1.25 1.30 1.35





#4

Vinyl Chloride

Concen: 2.234 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

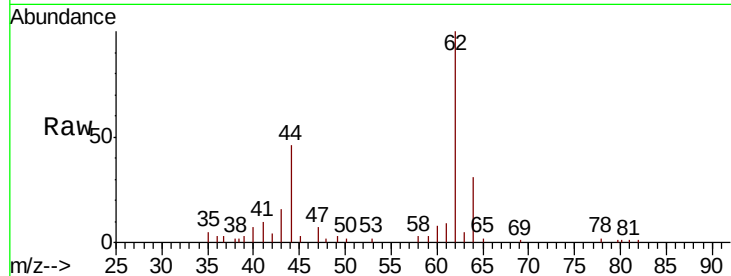
SS052MW730-190515

Tot Ion: 62 Resp: 4683

Ion Ratio Lower Upper

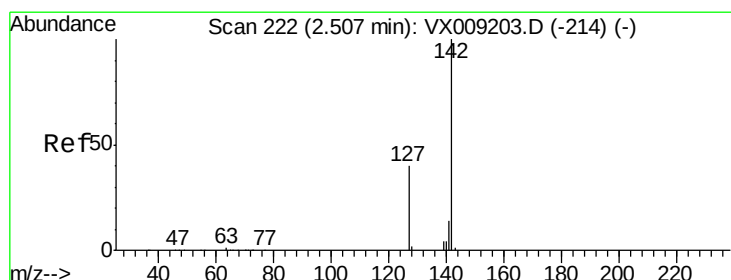
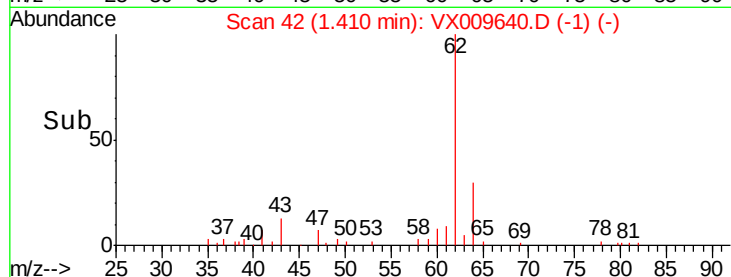
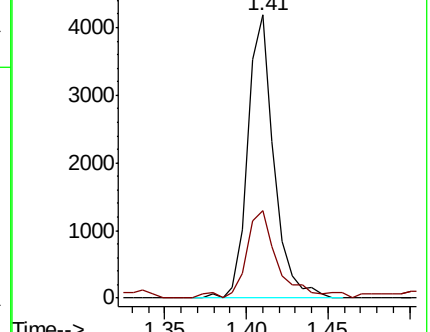
62 100

64 31.0 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#10

Methyl Iodide

Concen: 4.607 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

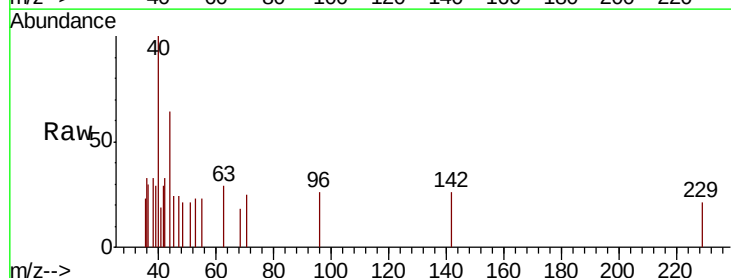
Tgt Ion: 142 Resp: 27

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

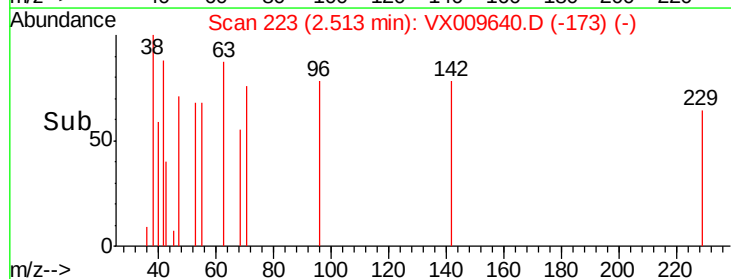
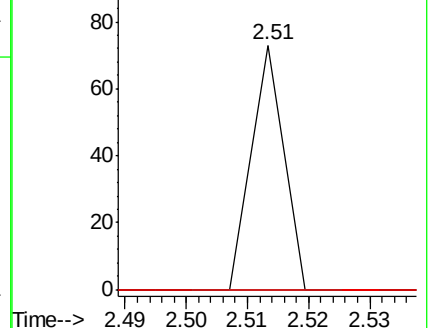
141 0.0 11.5 17.3#

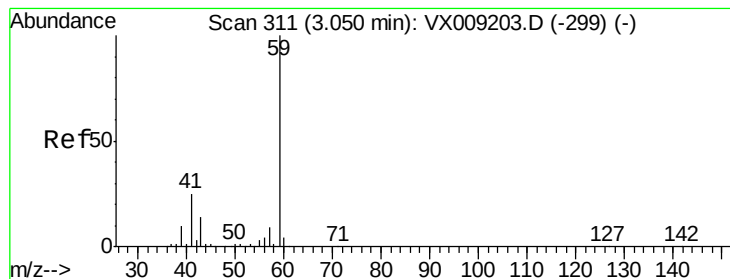


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.341 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

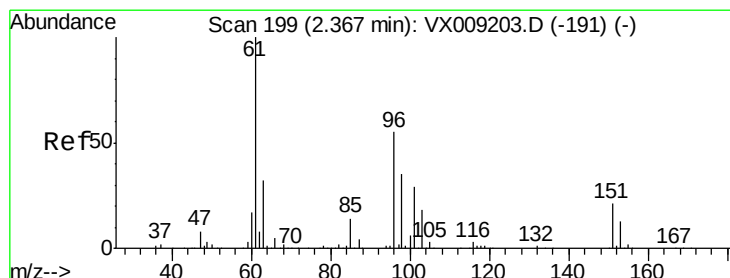
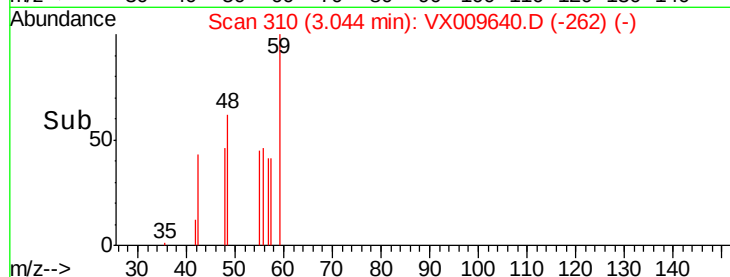
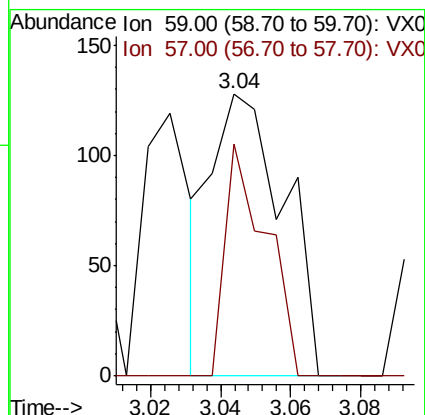
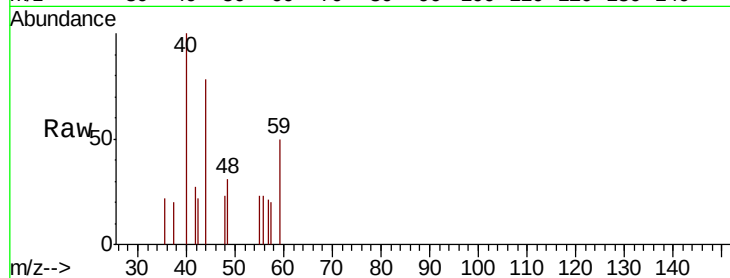
SS052MW730-190515

Tot Ion: 59 Resp: 184

Ion Ratio Lower Upper

59 100

57 46.7 8.2 12.2#



#12

1,1-Dichloroethene

Concen: 39.292 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

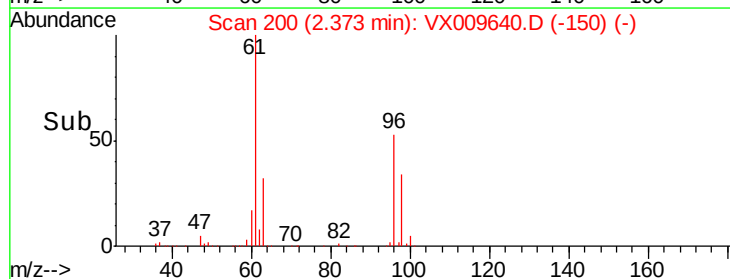
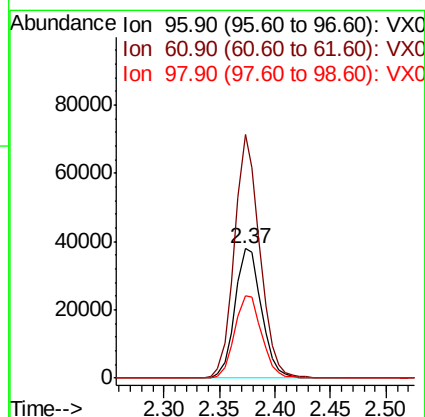
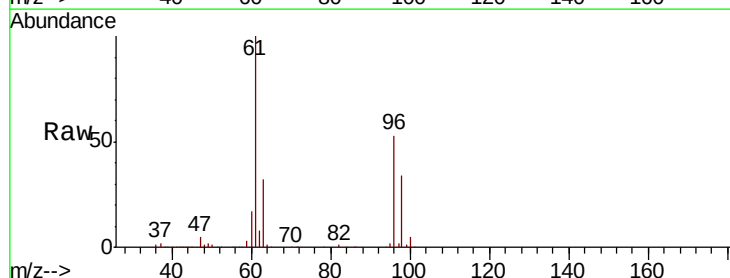
Tgt Ion: 96 Resp: 62986

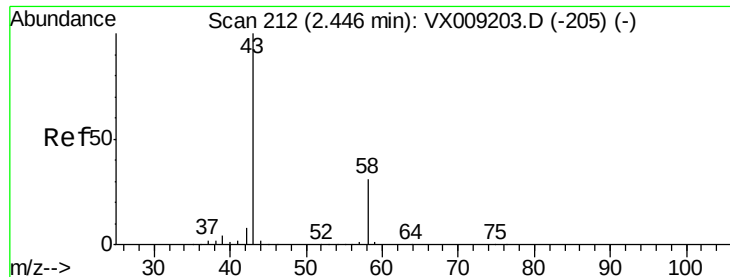
Ion Ratio Lower Upper

96 100

61 188.1 144.3 216.5

98 63.9 50.3 75.5





#16

Acetone

Concen: 0.440 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

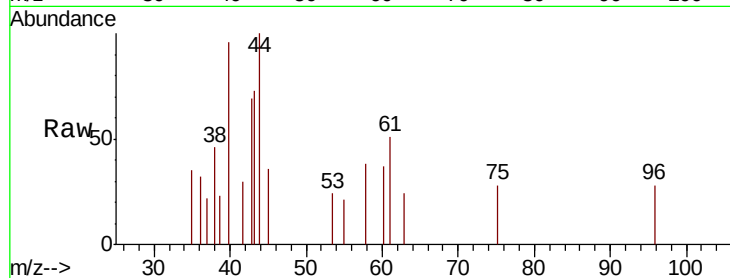
SS052MW730-190515

Tot Ion: 43 Resp: 551

Ion Ratio Lower Upper

43 100

58 14.4 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

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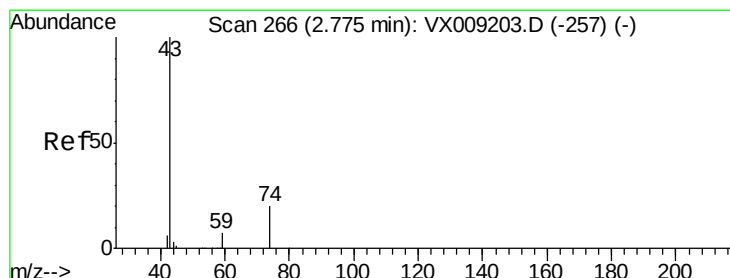
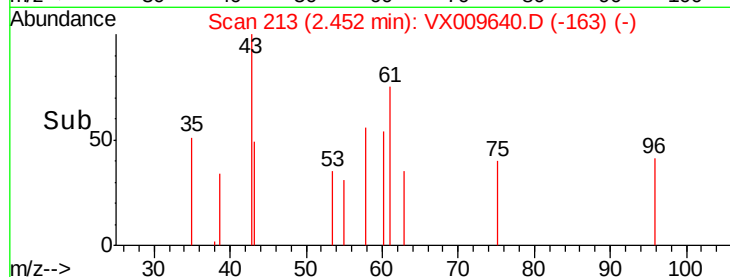
2.45

2.45

2.45

2.45

2.45



#18

Methyl Acetate

Concen: 0.235 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX009640.D

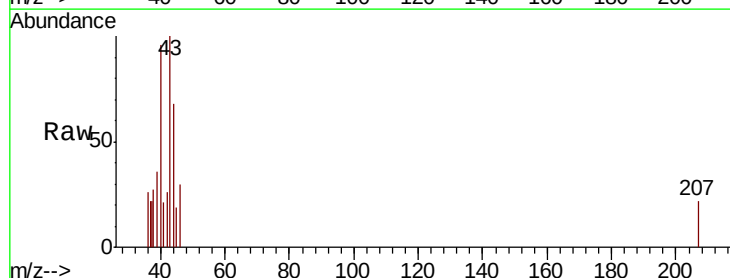
Acq: 17 May 2019 04:50

Tgt Ion: 43 Resp: 699

Ion Ratio Lower Upper

43 100

74 14.9 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

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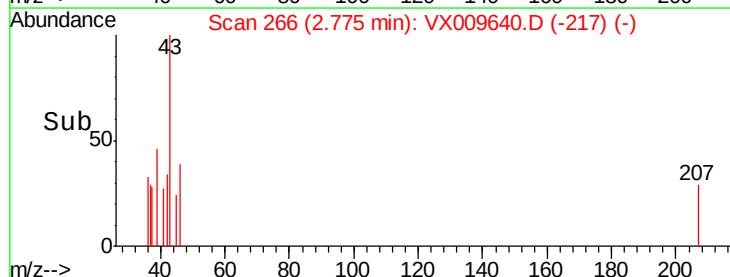
2.78

2.78

2.78

2.78

2.78



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

2.78

2.78

2.78

2.78

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2.78

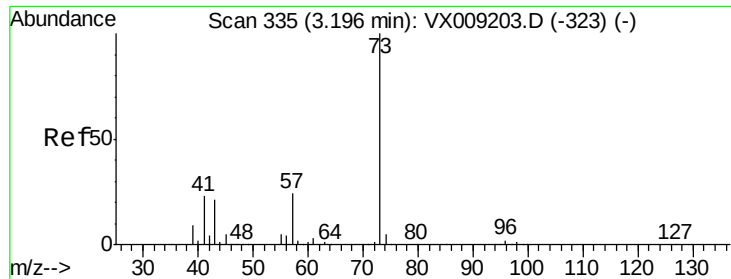
2.78

2.78

2.78

2.78

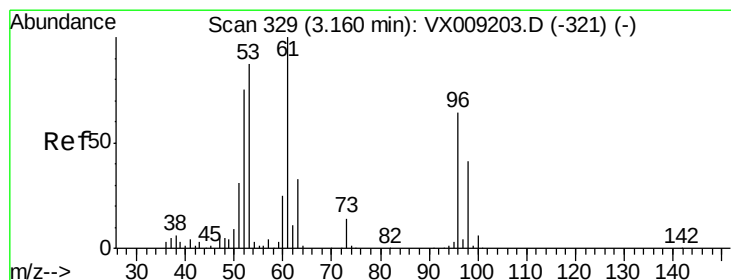
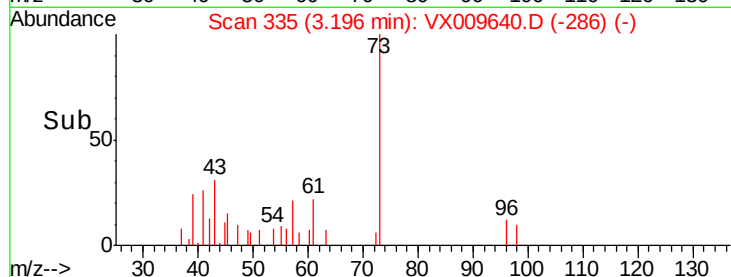
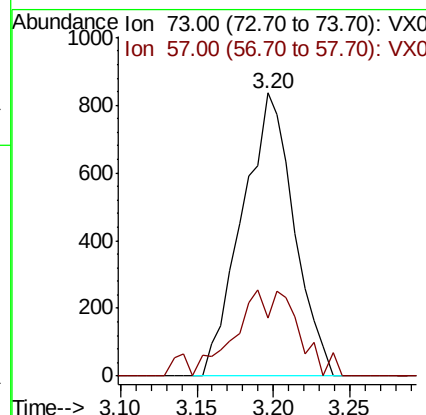
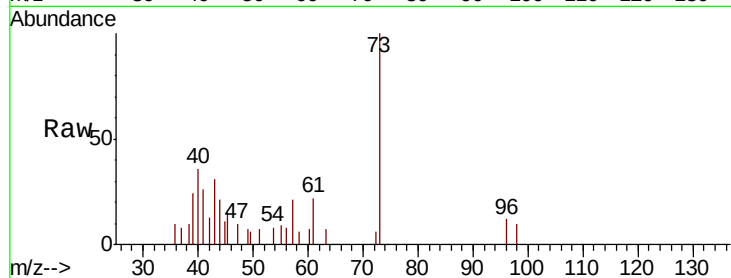
2.78



#19
Methyl tert-butyl Ether
Concen: 0.317 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.00 min
Lab File: VX009640.D
Acq: 17 May 2019 04:50

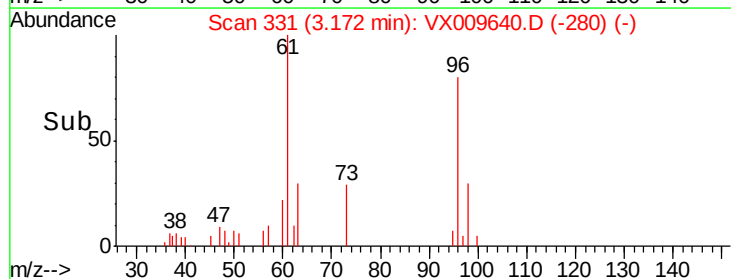
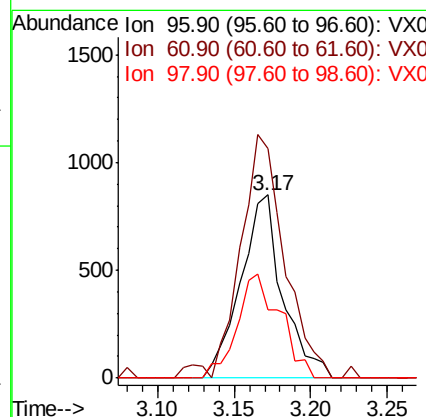
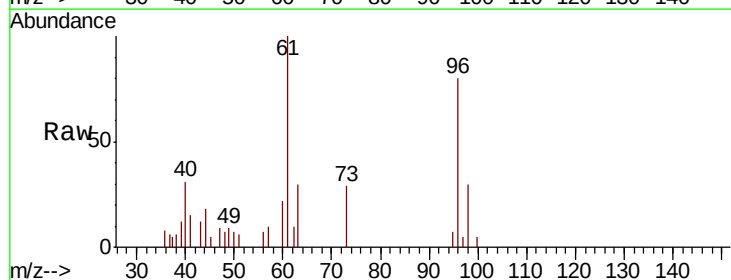
Instrument :
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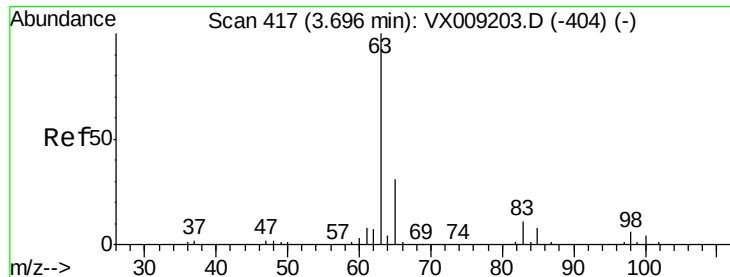
Tot Ion: 73 Resp: 1971
Ion Ratio Lower Upper
73 100
57 20.7 19.3 28.9



#21
trans-1,2-Dichloroethene
Concen: 0.930 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX009640.D
Acq: 17 May 2019 04:50

Tgt Ion: 96 Resp: 1616
Ion Ratio Lower Upper
96 100
61 125.1 124.5 186.7
98 37.4 50.4 75.6#





#24

1,1-Dichloroethane

Concen: 1.223 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-190515

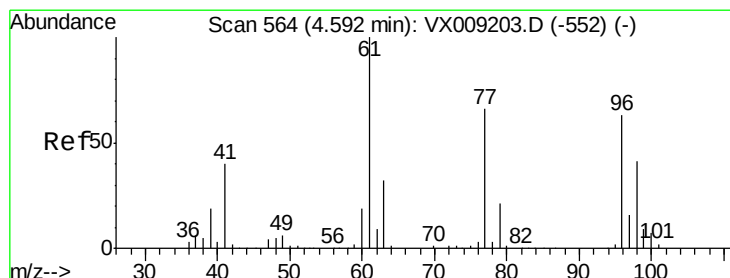
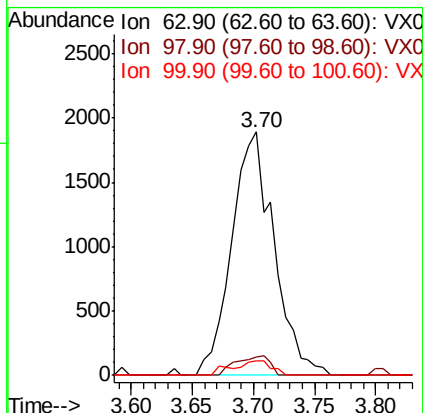
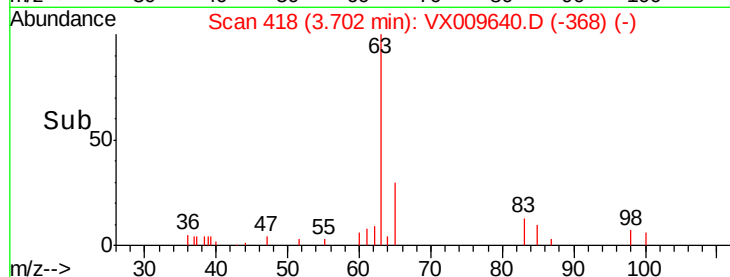
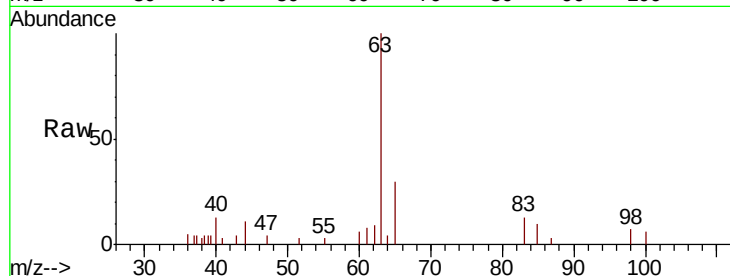
Tot Ion: 63 Resp: 4532

Ion Ratio Lower Upper

63 100

98 7.5 3.0 9.2

100 6.0 2.0 6.0#



#27

cis-1,2-Dichloroethene

Concen: 24.398 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

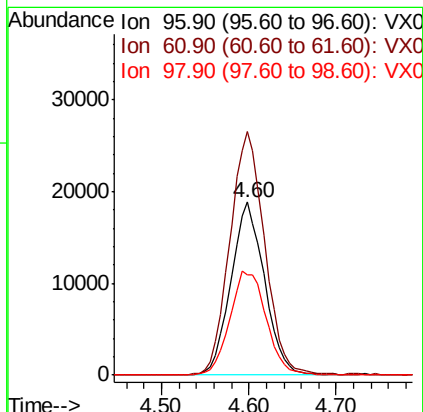
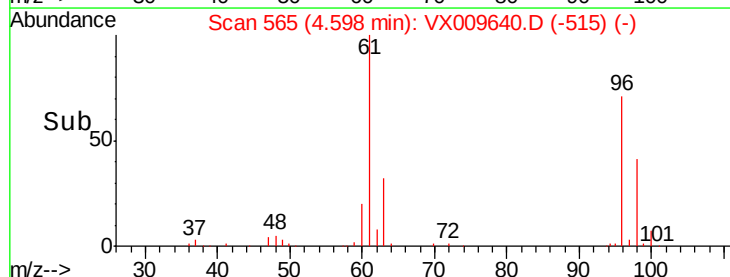
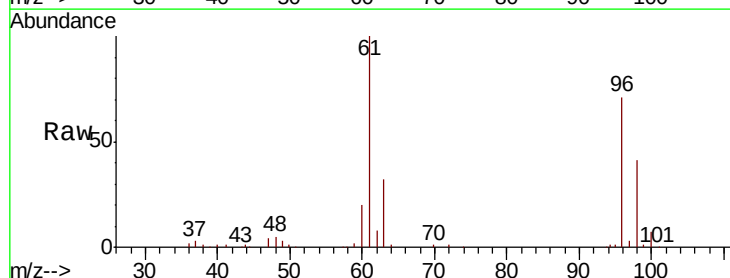
Tgt Ion: 96 Resp: 50628

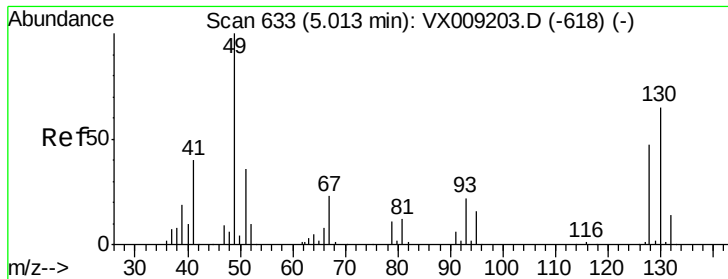
Ion Ratio Lower Upper

96 100

61 145.3 0.0 324.0

98 64.5 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-190515

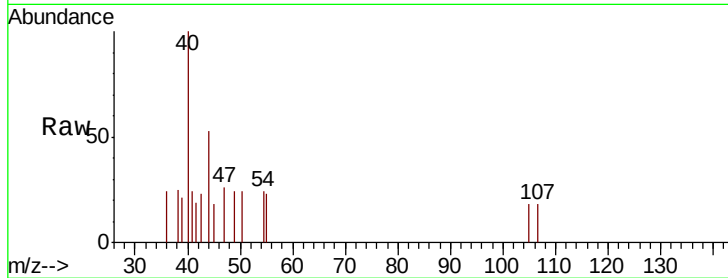
Tot Ion: 49 Resp: 65

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

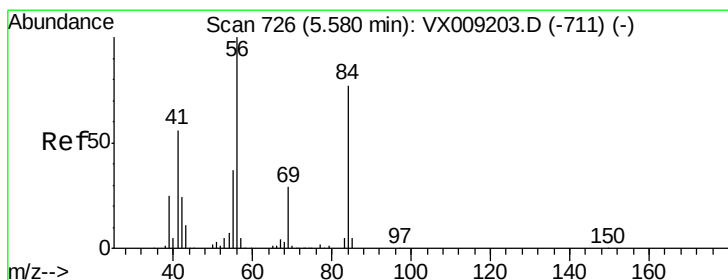
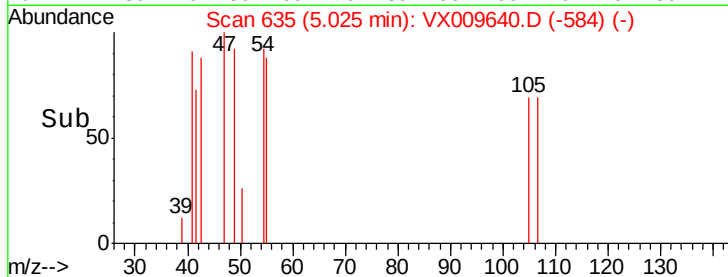
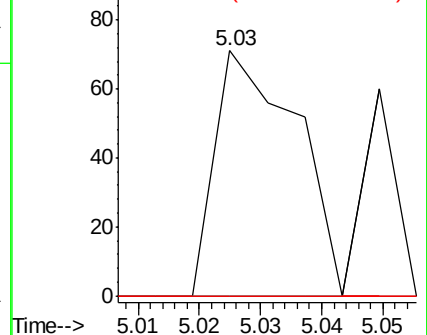
130 0.0 51.2 76.8#



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: 1.089 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

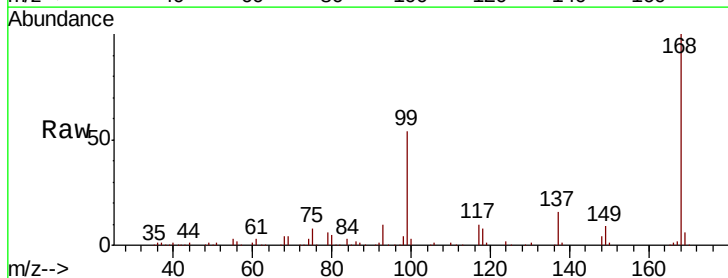
Tgt Ion: 56 Resp: 3755

Ion Ratio Lower Upper

56 100

69 190.6 23.4 35.0#

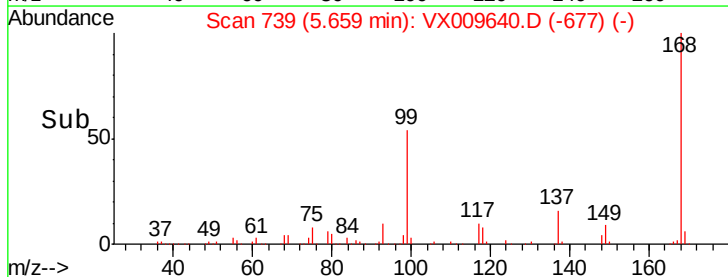
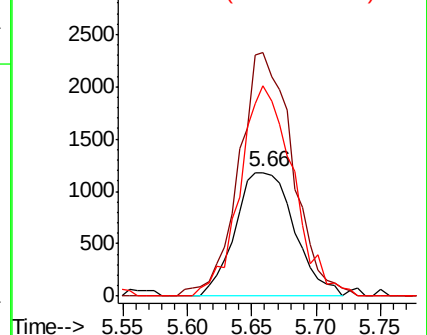
84 170.2 61.9 92.9#

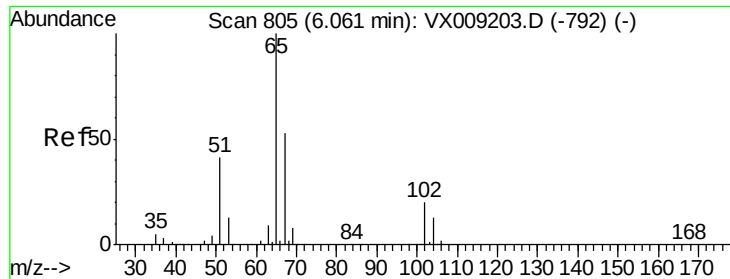


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

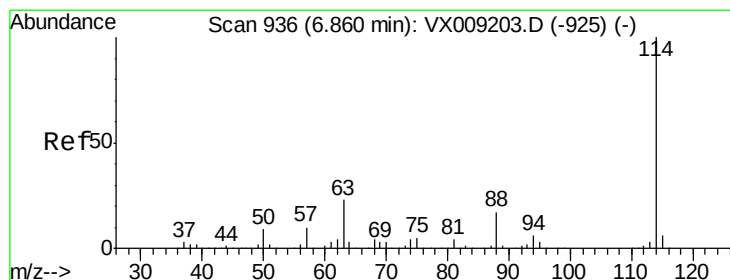
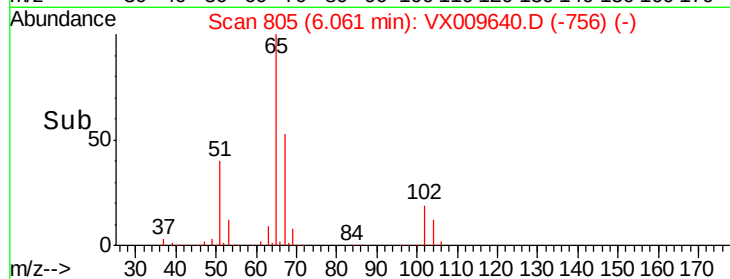
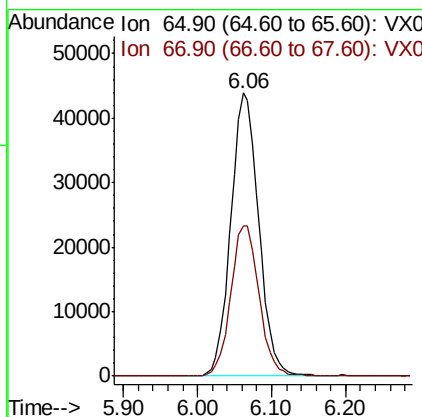
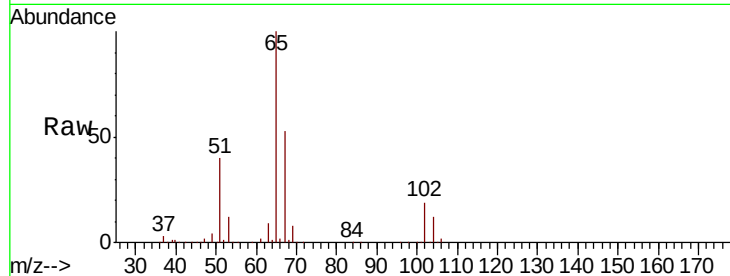




#33
 1,2-Dichloroethane-d4
 Concen: 49.631 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009640.D
 Acq: 17 May 2019 04:50

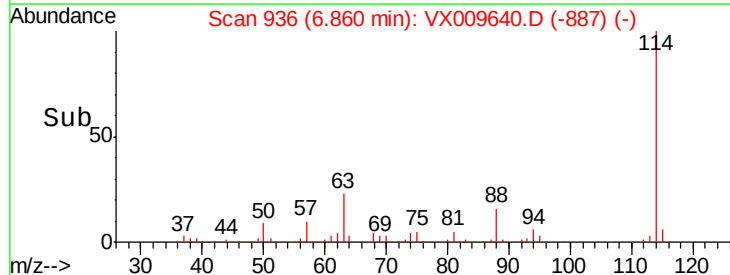
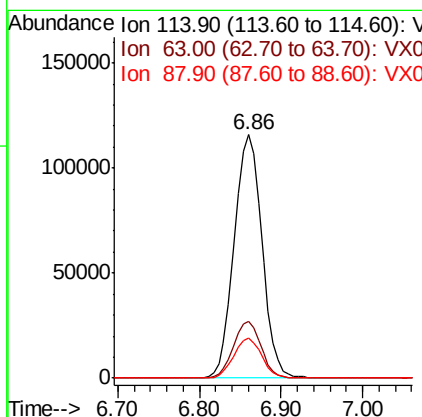
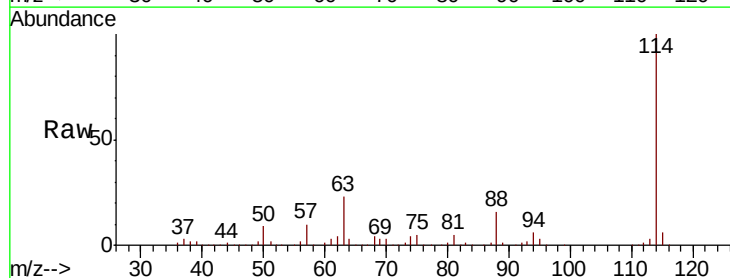
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW730-190515

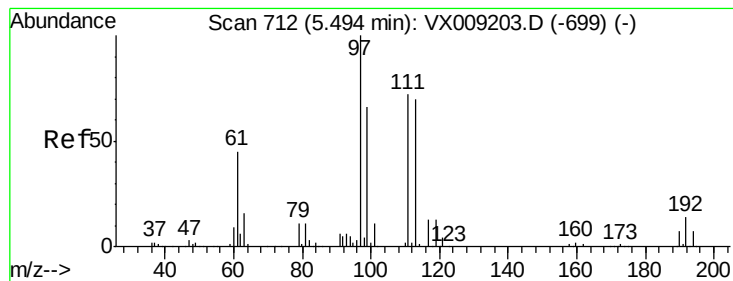
Tot Ion: 65 Resp: 115753
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009640.D
 Acq: 17 May 2019 04:50

Tgt Ion: 114 Resp: 273327
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.6
 88 16.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.363 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-190515

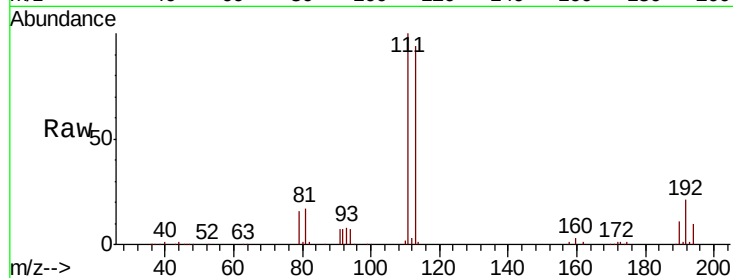
Tot Ion:113 Resp: 84818

Ion Ratio Lower Upper

113 100

111 102.2 82.8 124.2

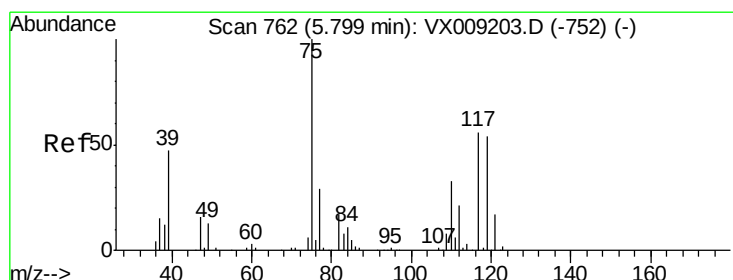
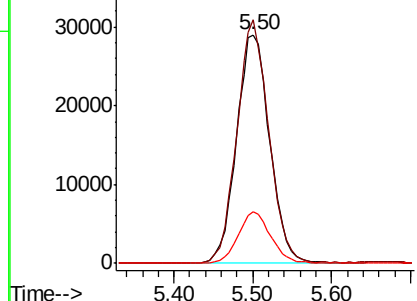
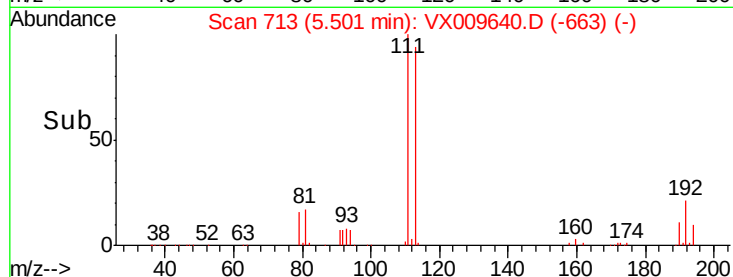
192 22.0 17.0 25.6



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: 5.280 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

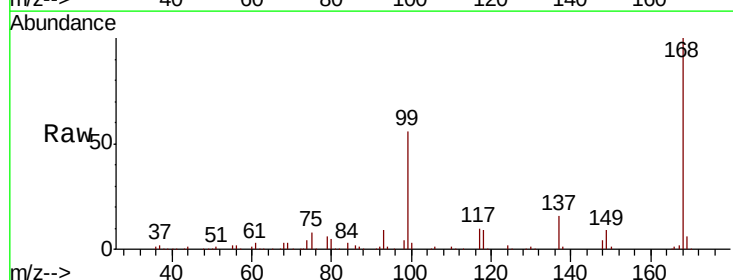
Tgt Ion: 75 Resp: 13411

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

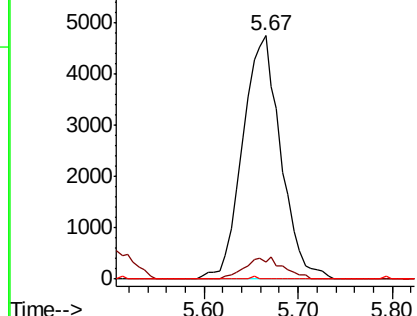
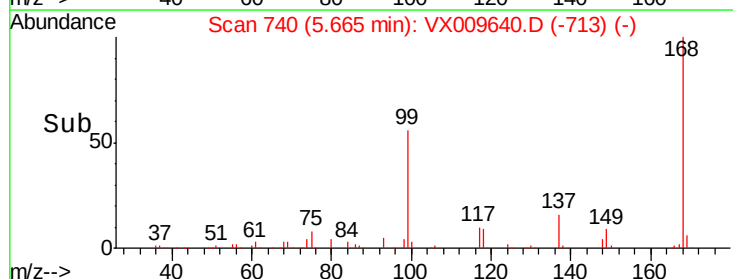
77 0.1 24.8 37.2#

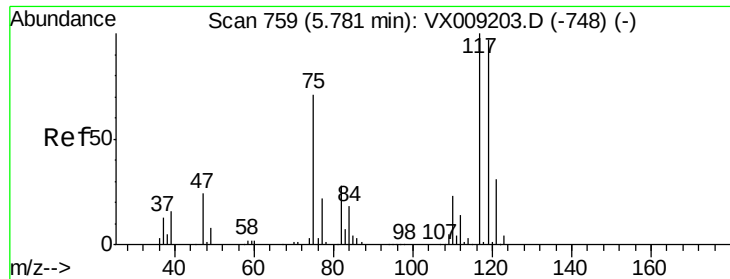


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

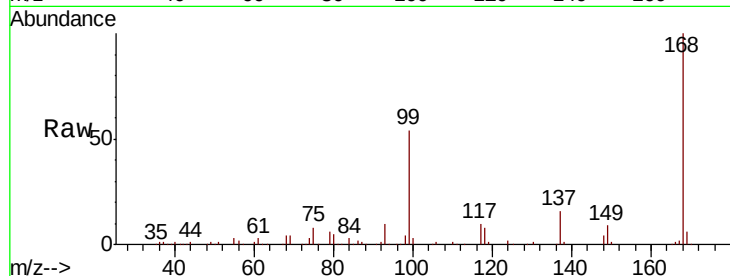




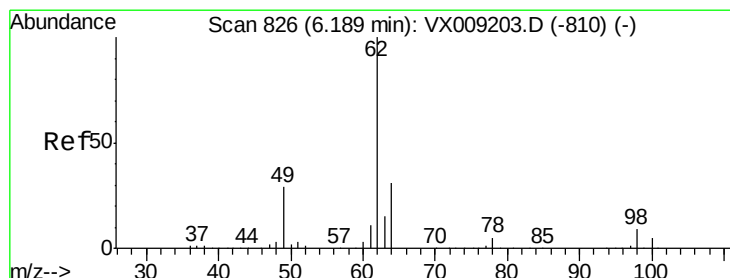
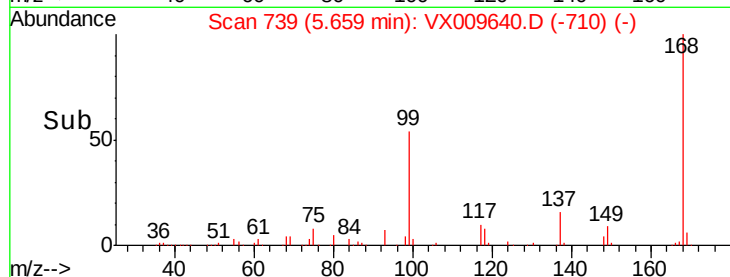
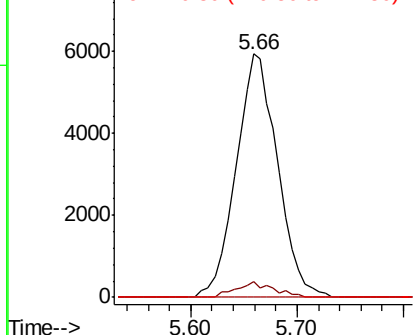
#38
Carbon Tetrachloride
Concen: 6.991 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX009640.D
Acq: 17 May 2019 04:50

Instrument :
MSVOA_X
ClientSampleId :
SS052MW730-190515

Tot Ion:117 Resp: 16134
Ion Ratio Lower Upper
117 100
119 6.4 77.5 116.3#
121 0.0 24.7 37.1#

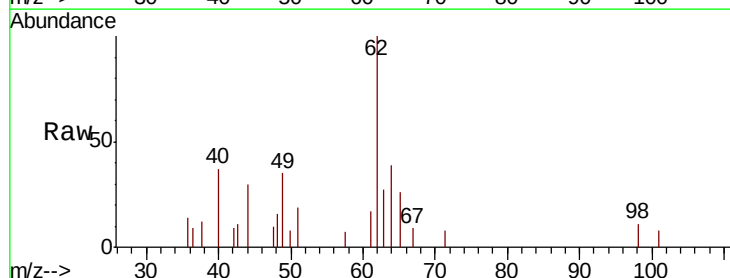


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

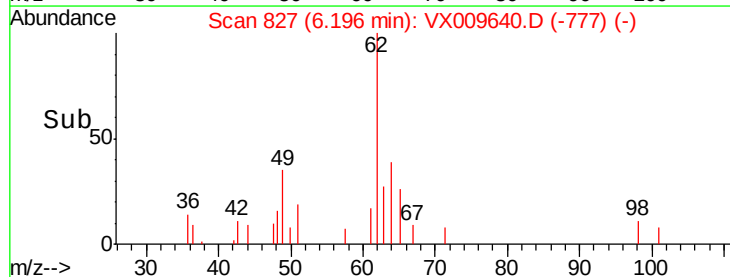
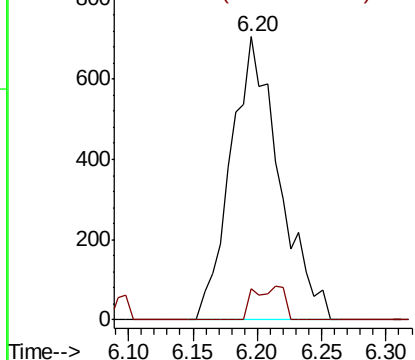


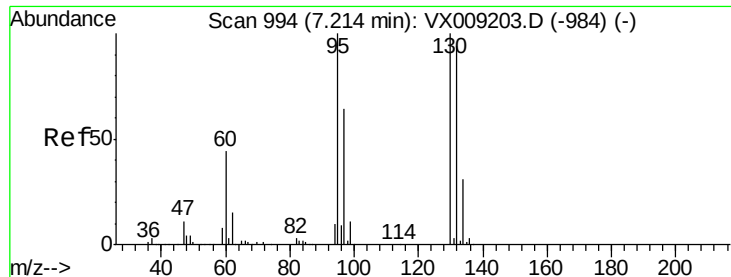
#42
1,2-Dichloroethane
Concen: 0.652 ug/l
RT: 6.20 min Scan# 827
Delta R.T. 0.01 min
Lab File: VX009640.D
Acq: 17 May 2019 04:50

Tgt Ion: 62 Resp: 1838
Ion Ratio Lower Upper
62 100
98 7.3 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 7.033 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

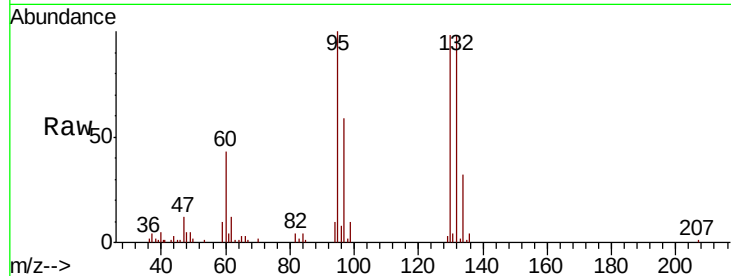
SS052MW730-190515

Tot Ion:130 Resp: 13366

Ion Ratio Lower Upper

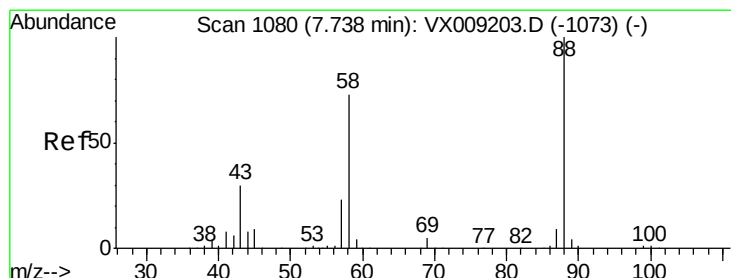
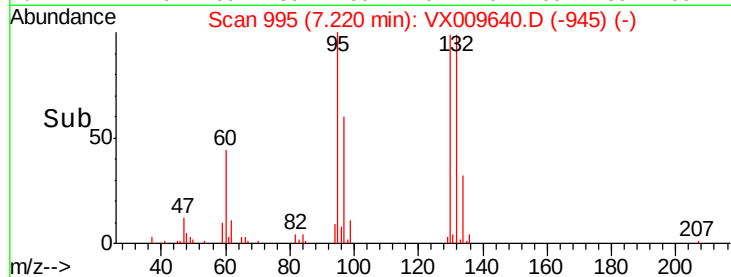
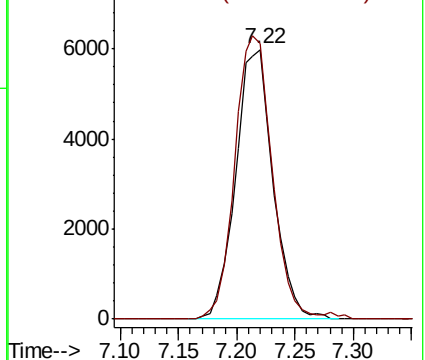
130 100

95 102.2 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 19.857 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

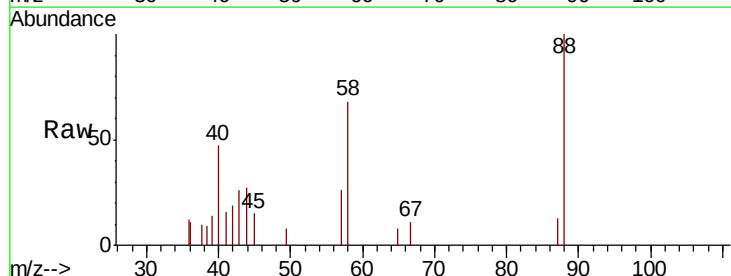
Tgt Ion: 88 Resp: 1131

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

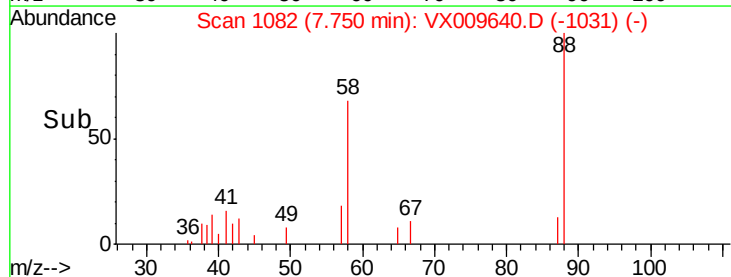
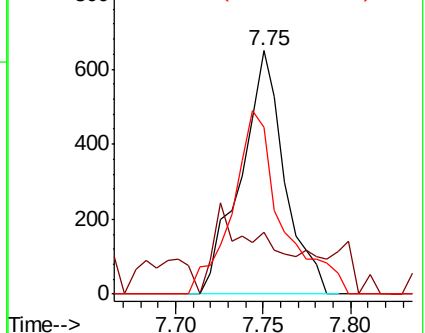
58 85.1 61.7 92.5

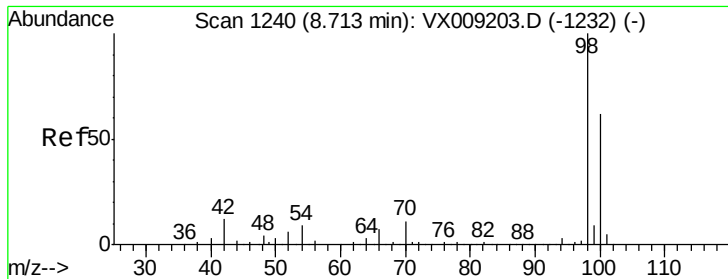


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.144 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

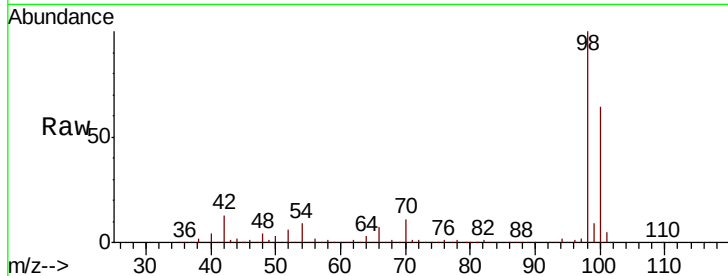
SS052MW730-190515

Tot Ion: 98 Resp: 347845

Ion Ratio Lower Upper

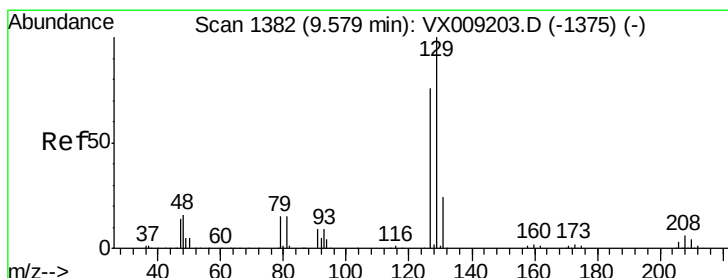
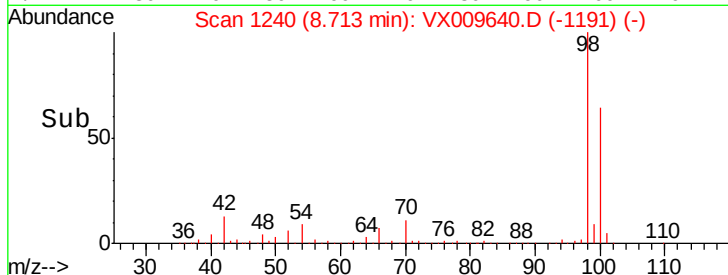
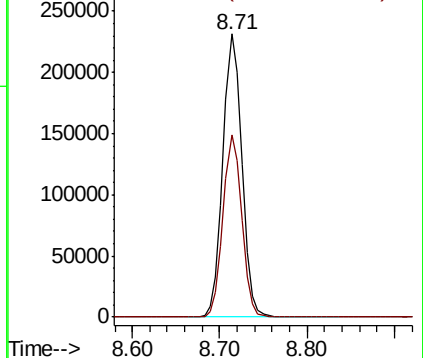
98 100

100 63.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 51.454 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009640.D

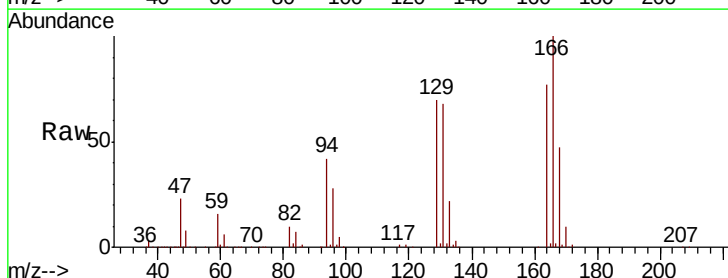
Acq: 17 May 2019 04:50

Tgt Ion:129 Resp: 97971

Ion Ratio Lower Upper

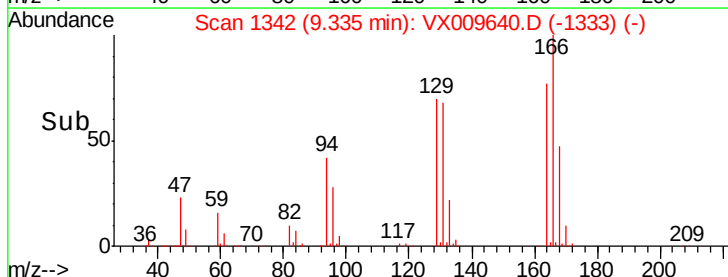
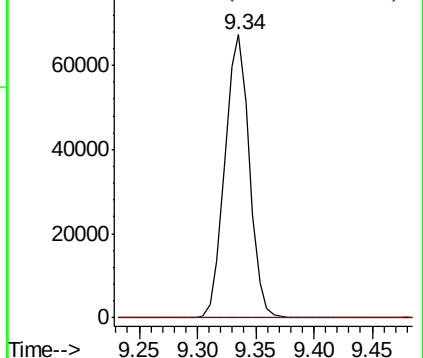
129 100

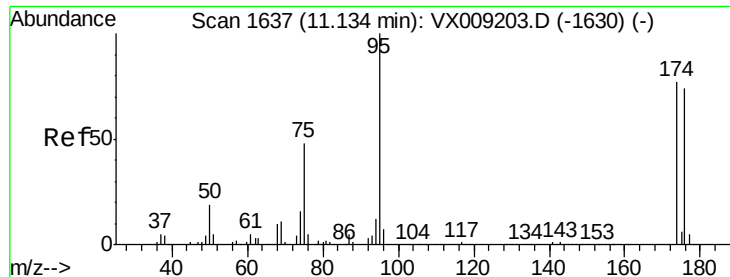
127 0.1 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.475 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-190515

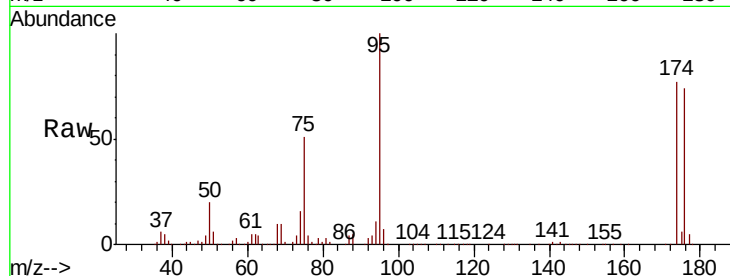
Tot Ion: 95 Resp: 114625

Ion Ratio Lower Upper

95 100

174 82.3 0.0 161.6

176 79.0 0.0 159.2

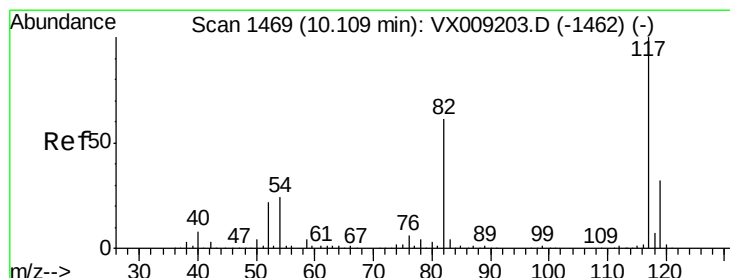
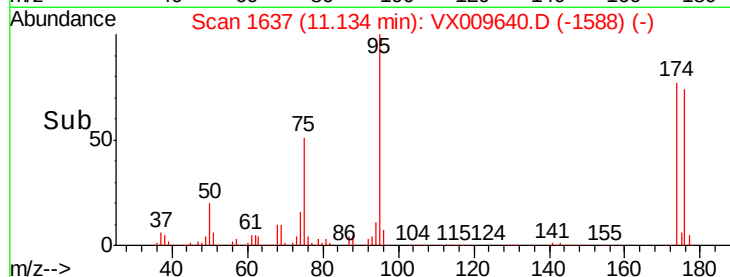
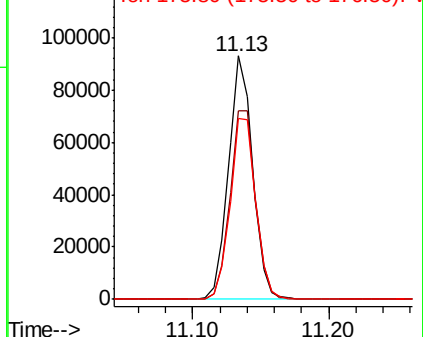


Abundance

Ion 94.90 (94.60 to 95.60): VX009640.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009640.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009640.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

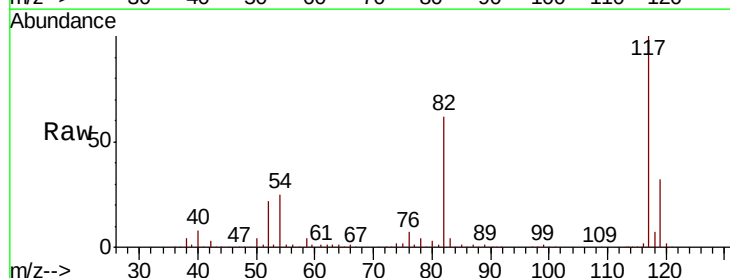
Tgt Ion: 117 Resp: 242722

Ion Ratio Lower Upper

117 100

82 61.5 48.8 73.2

119 32.3 25.8 38.6

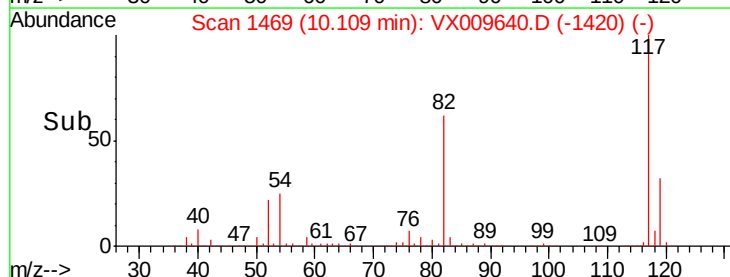
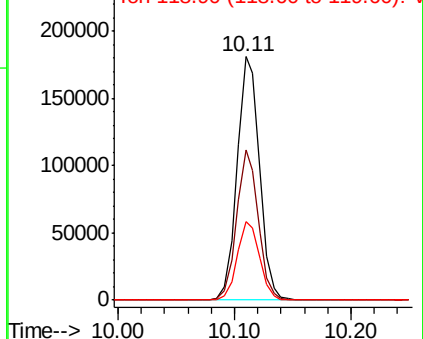


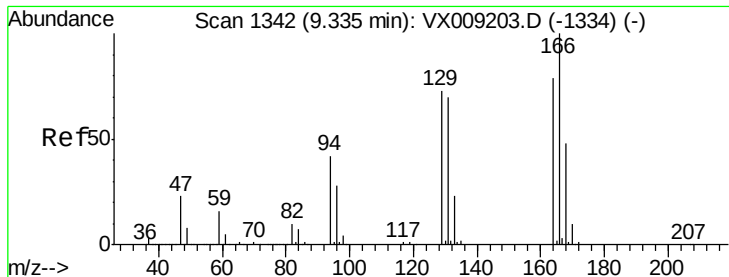
Abundance

Ion 116.90 (116.60 to 117.60): VX009640.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009640.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009640.D (-1420) (-)





#64

Tetrachloroethene

Concen: 63.687 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009640.D

Acq: 17 May 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

SS052MW730-190515

Tot Ion:164 Resp: 106037

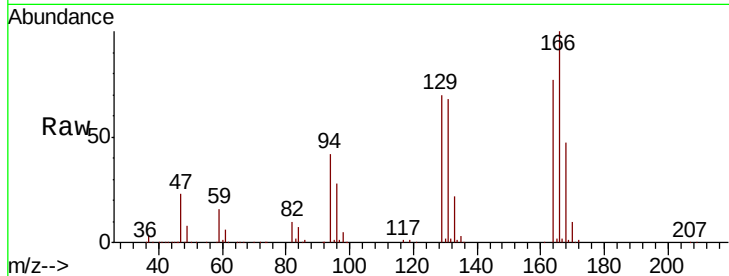
Ion Ratio Lower Upper

164 100

166 129.9 101.2 151.8

129 90.9 74.3 111.5

131 88.0 71.0 106.6

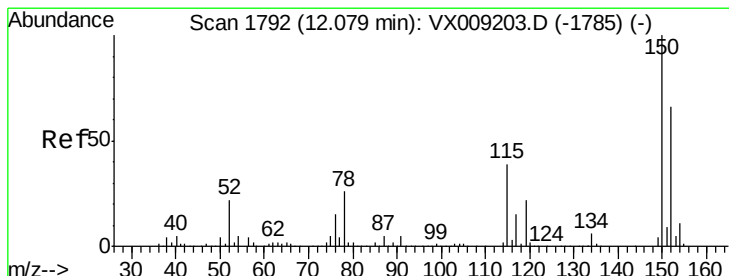
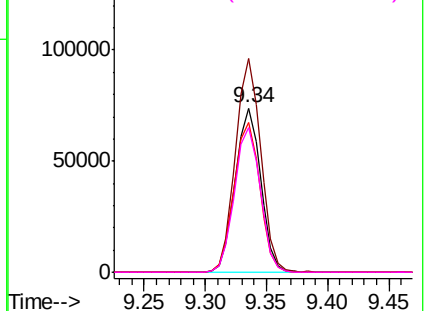
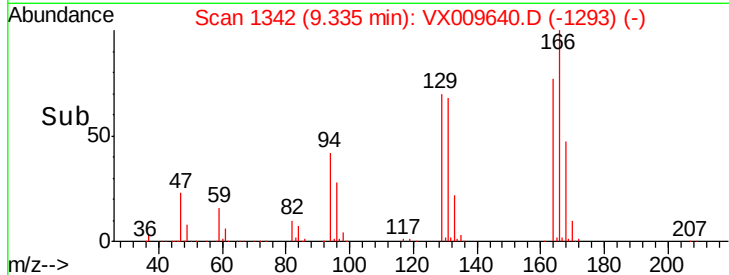


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX009640.D

Acq: 17 May 2019 04:50

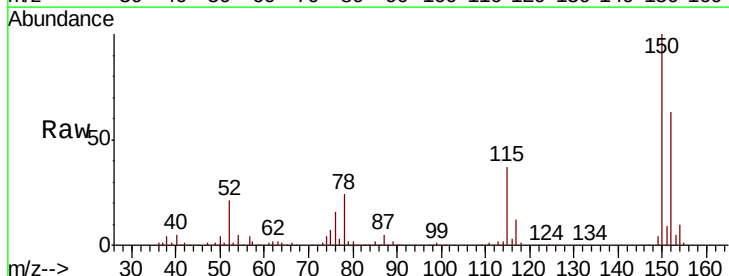
Tgt Ion:152 Resp: 104087

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

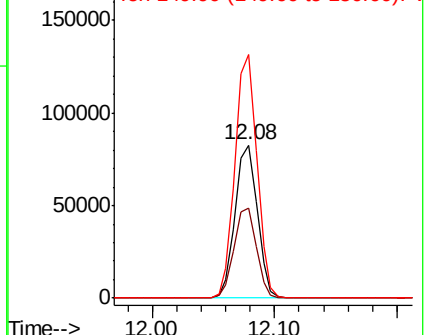
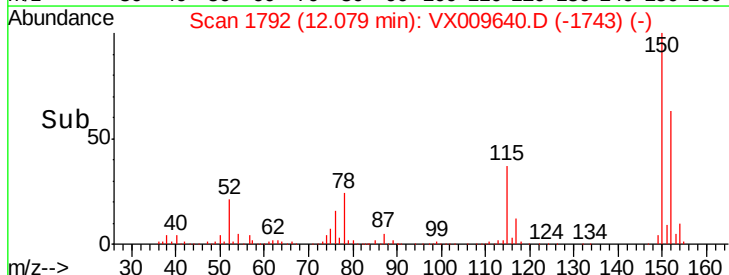
150 157.5 0.0 346.4

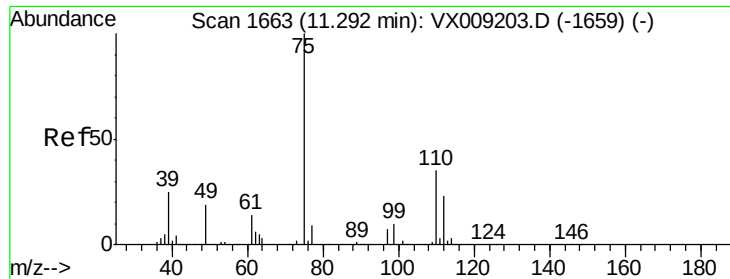


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

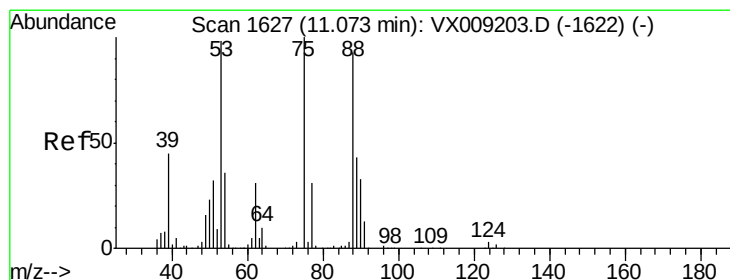
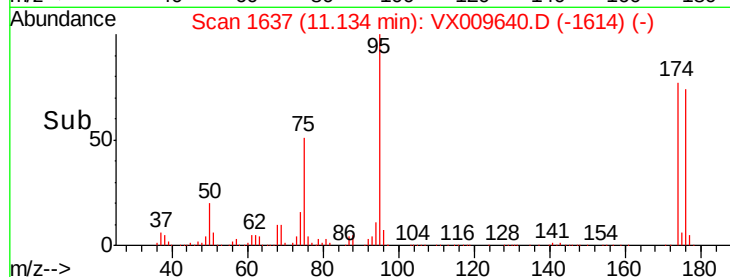
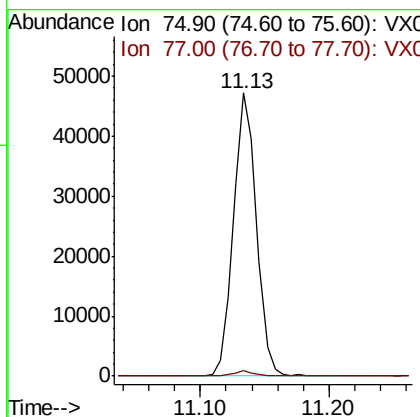
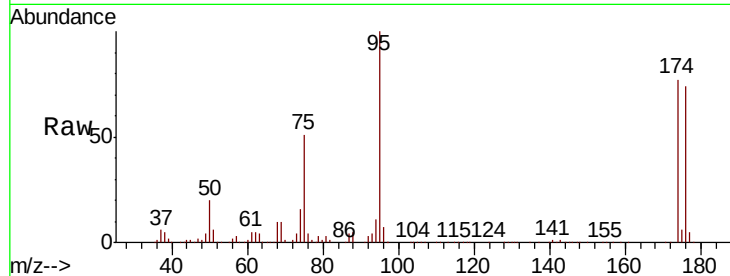




#76
 1,2,3-Trichloropropane
 Concen: 24.477 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009640.D
 Acq: 17 May 2019 04:50

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW730-190515

Tot Ion: 75 Resp: 59098
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.627 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009640.D
 Acq: 17 May 2019 04:50

Tgt Ion: 75 Resp: 59098
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.1 34.7 52.1#

