

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009493.D
 Acq On : 10 May 2019 20:03
 Operator : JC/SP
 Sample : K2810-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4-TB05-190509

Quant Time: May 11 03:31:29 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	5.66	168	176851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	285033	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251001	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106284	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	117296	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
35) Dibromofluoromethane	5.50	113	86530	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	8.71	98	356347	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.13	95	117207	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

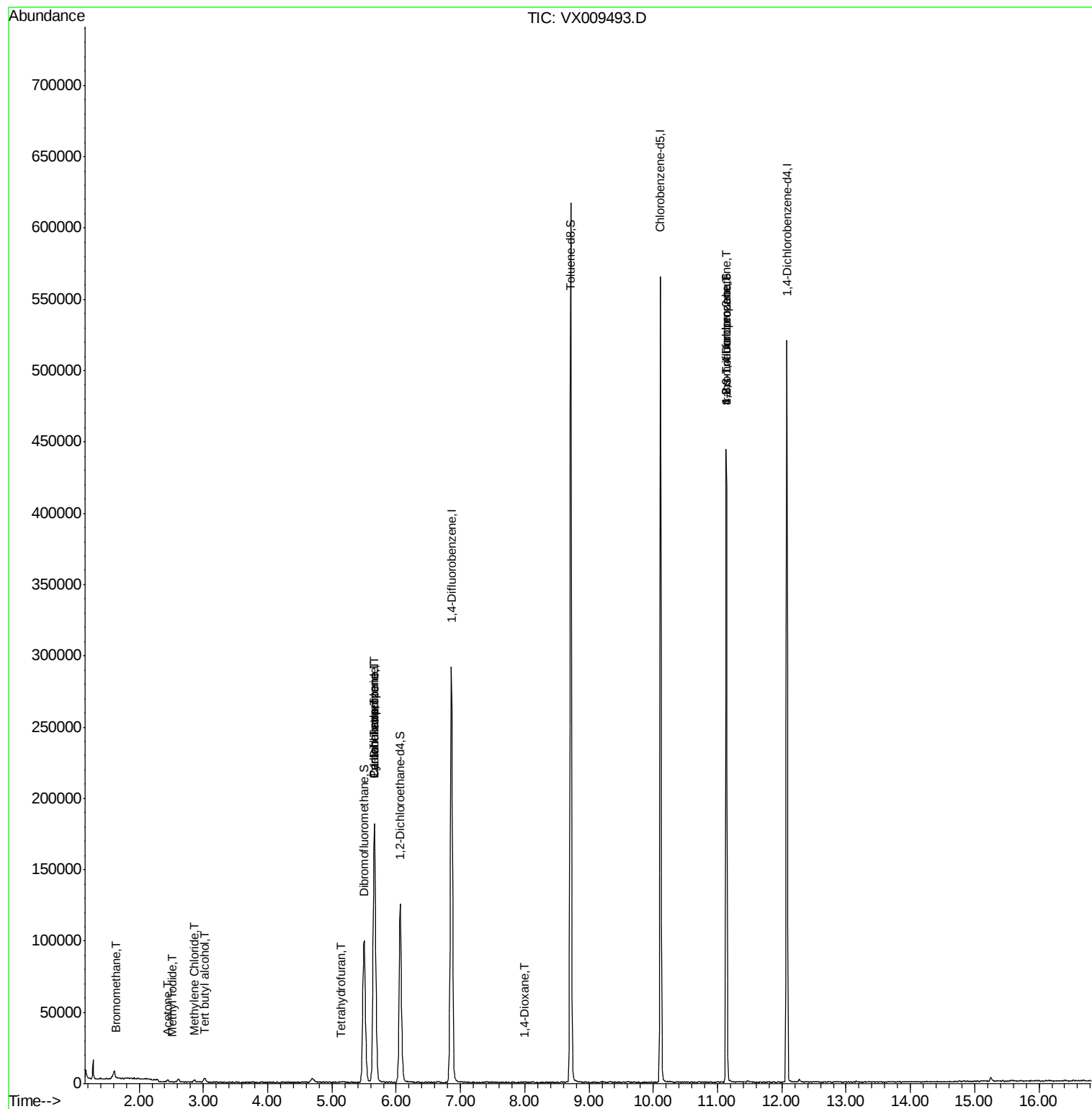
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	352	0.270	ug/l #	55
10) Methyl Iodide	2.52	142	218	4.697	ug/l #	87
11) Tert butyl alcohol	3.02	59	2084	3.729	ug/l #	73
16) Acetone	2.45	43	2040	1.574	ug/l	96
20) Methylene Chloride	2.86	84	667	0.318	ug/l	94
28) Bromochloromethane	4.99	49	21	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	281	0.217	ug/l #	44
31) Cyclohexane	5.65	56	3921	1.099	ug/l #	5
36) 1,1-Dichloropropene	5.66	75	13553	5.117	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16400	6.814	ug/l #	16
49) 1,4-Dioxane	7.99	88	20	0.337	ug/l #	4
76) 1,2,3-Trichloropropane	11.13	75	60651	24.601	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60651	62.945	ug/l #	10

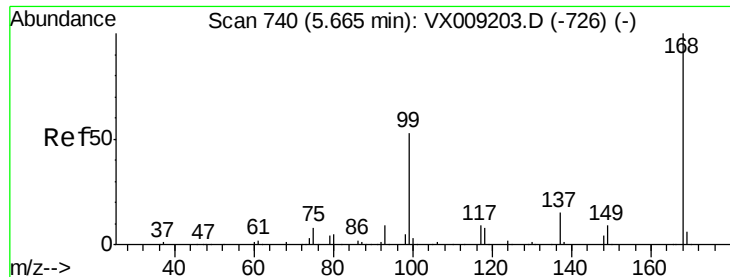
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

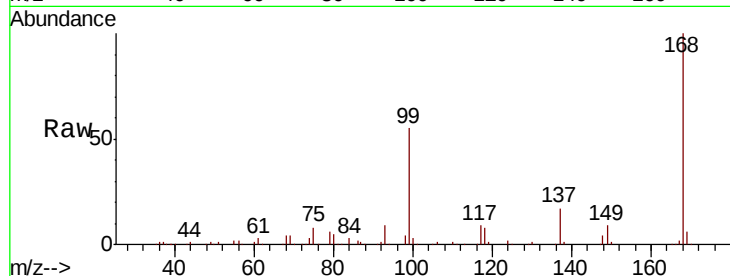
Z4-TB05-190509

Tot Ion:168 Resp: 176851

Ion Ratio Lower Upper

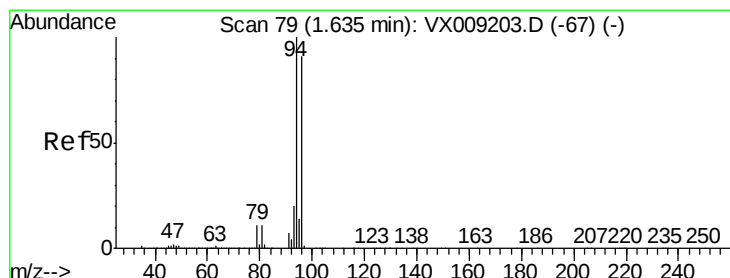
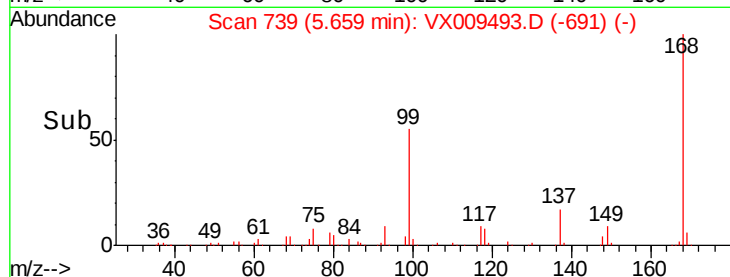
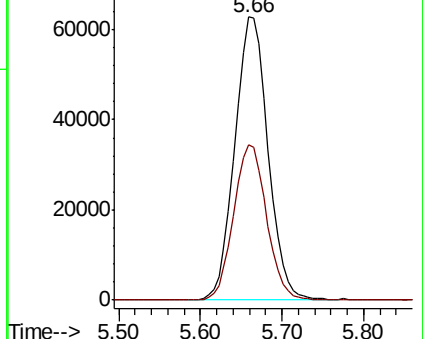
168 100

99 54.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.270 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009493.D

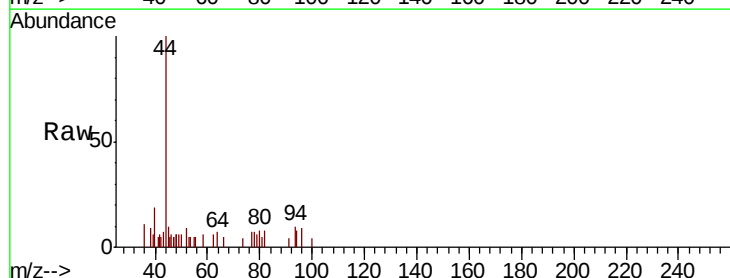
Acq: 10 May 2019 20:03

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

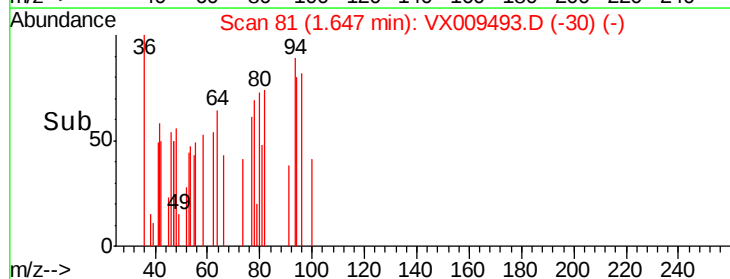
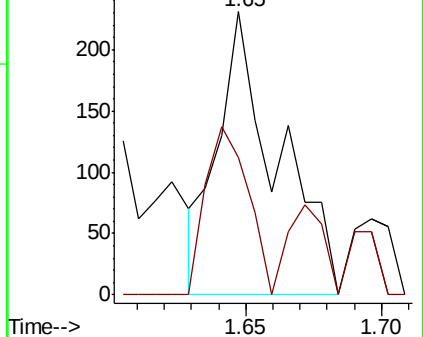
94 100

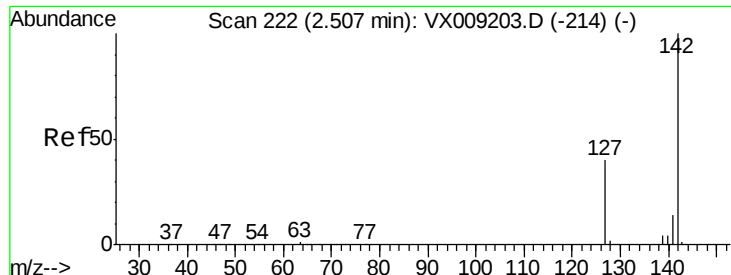
96 48.5 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

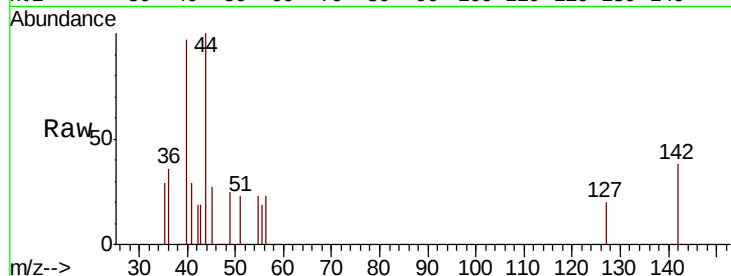




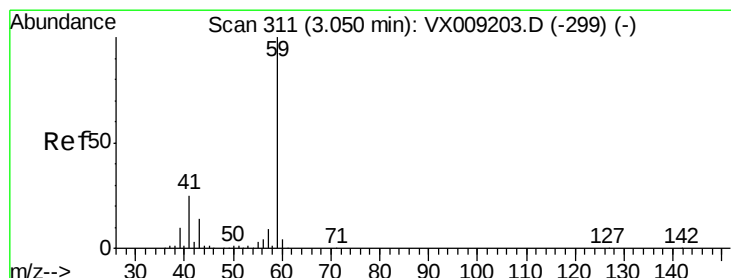
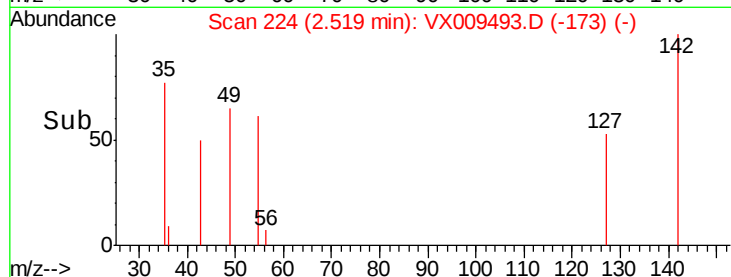
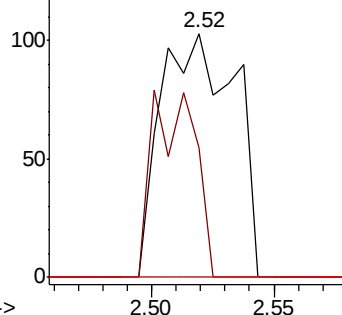
#10
Methvl Iodide
Concen: 4.697 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Instrument :
MSVOA_X
ClientSampleId :
Z4-TB05-190509

Tot Ion:142 Resp: 218
Ion Ratio Lower Upper
142 100
127 44.0 32.7 49.1
141 0.0 11.5 17.3#

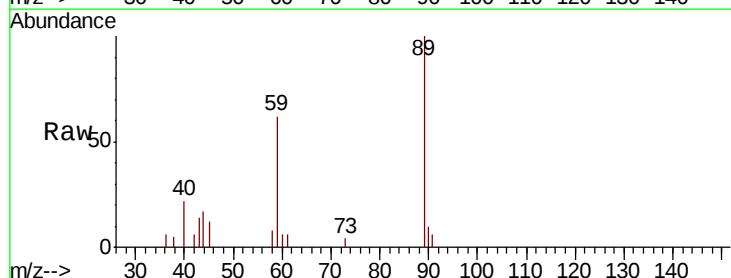


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

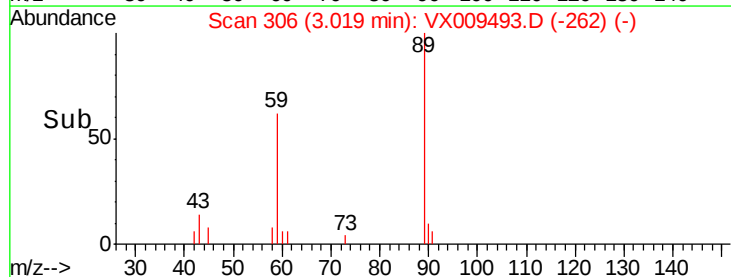
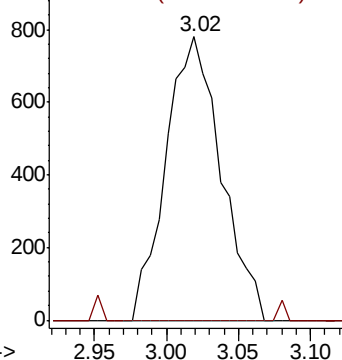


#11
Tert butyl alcohol
Concen: 3.729 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Tgt Ion: 59 Resp: 2084
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#16

Acetone

Concen: 1.574 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

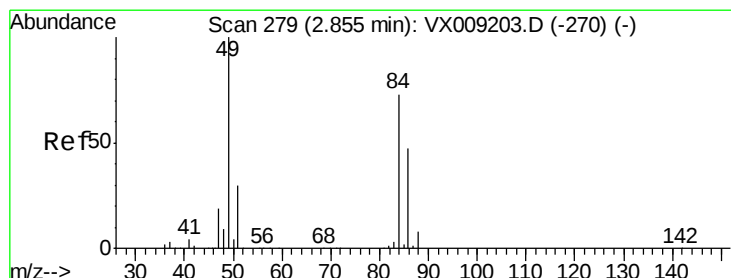
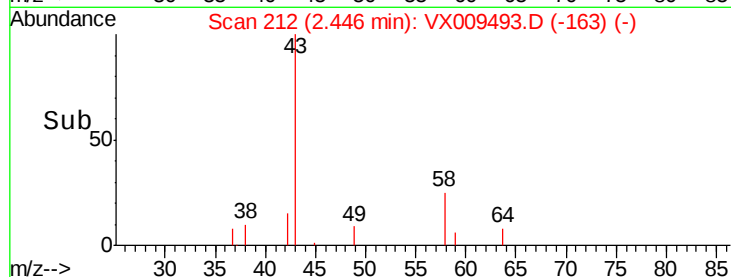
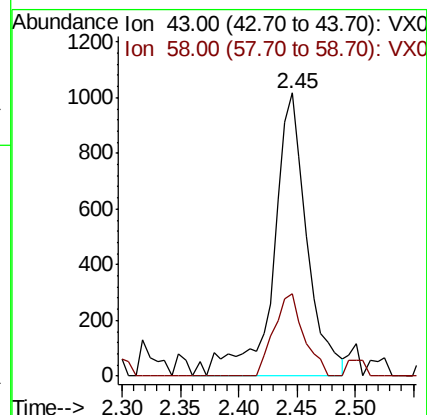
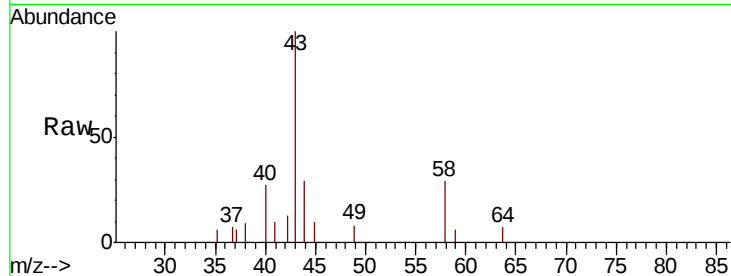
Z4-TB05-190509

Tot Ion: 43 Resp: 2040

Ion Ratio Lower Upper

43 100

58 29.0 24.9 37.3



#20

Methylene Chloride

Concen: 0.318 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

Tgt Ion: 84 Resp: 667

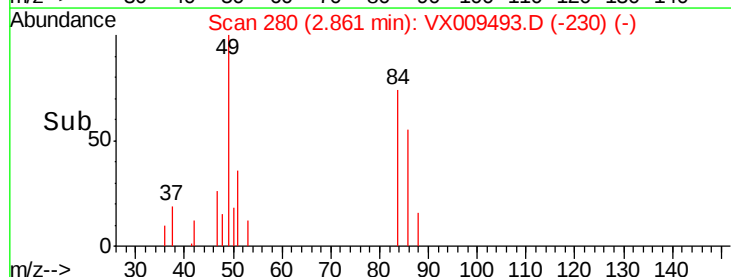
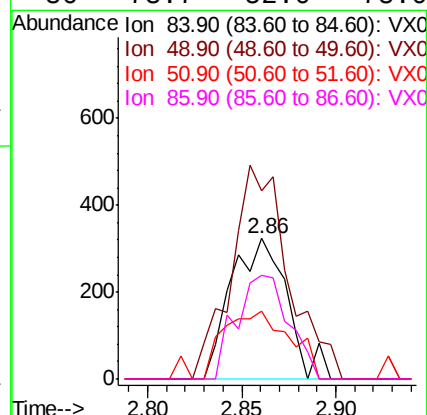
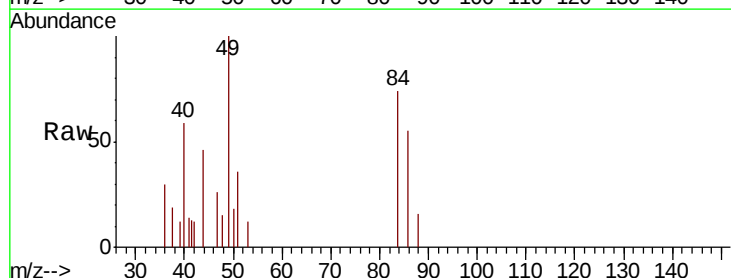
Ion Ratio Lower Upper

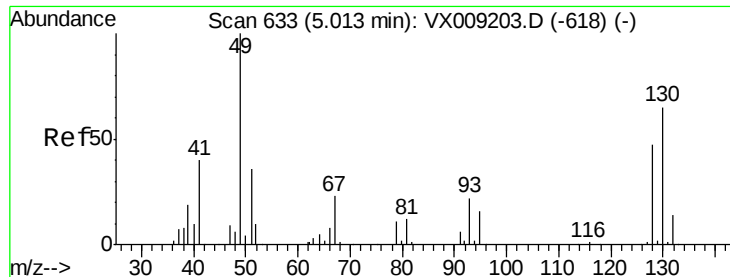
84 100

49 134.4 109.9 164.9

51 48.0 32.7 49.1

86 73.7 52.0 78.0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

Z4-TB05-190509

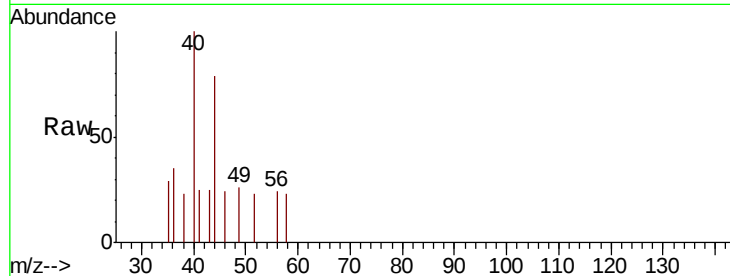
Tot Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



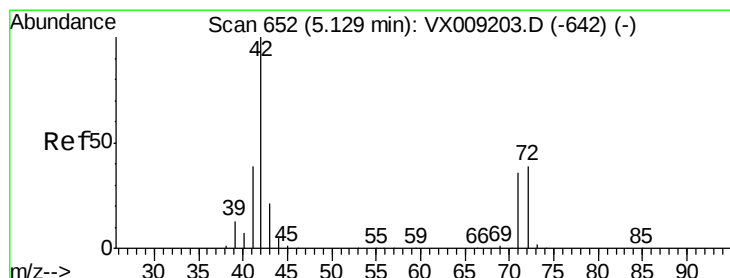
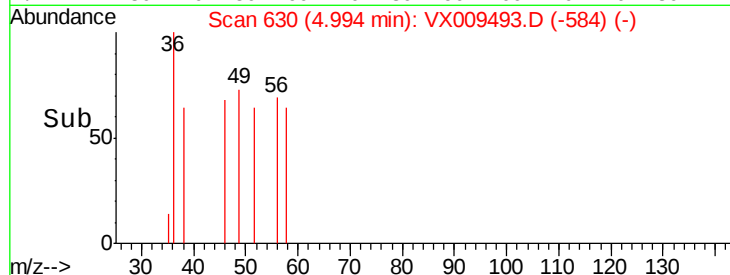
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

4.99

Time--> 4.97 4.98 4.99 5.00 5.01



#29

Tetrahydrofuran

Concen: 0.217 ug/l

RT: 5.13 min Scan# 652

Delta R.T. -0.00 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

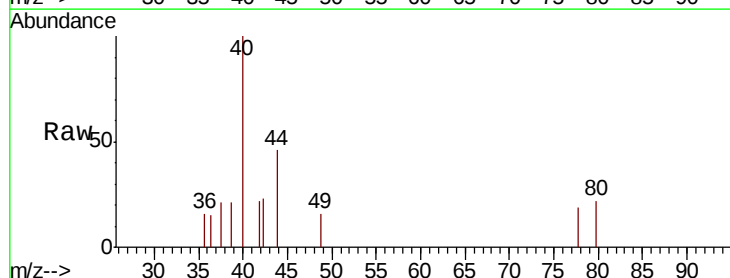
Tgt Ion: 42 Resp: 281

Ion Ratio Lower Upper

42 100

72 7.5 30.4 45.6#

71 0.0 28.6 43.0#



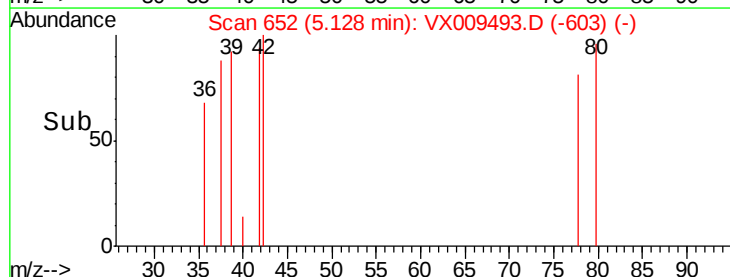
Abundance Ion 42.00 (41.70 to 42.70): VX0

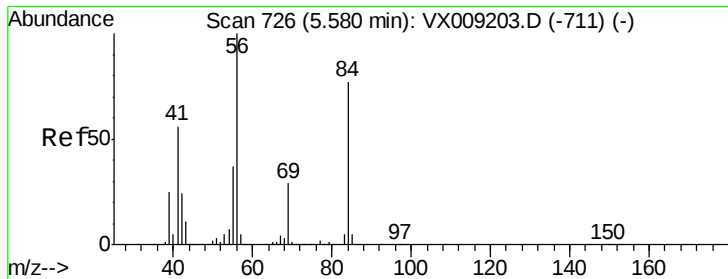
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.13

Time--> 5.08 5.10 5.12 5.14 5.16

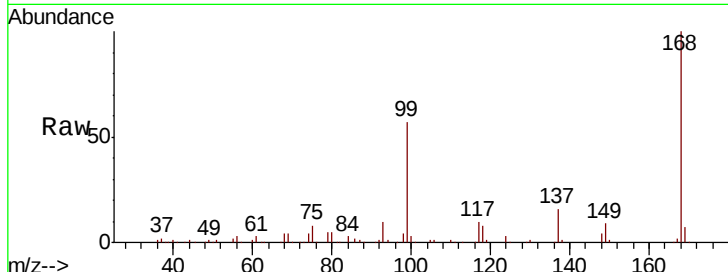




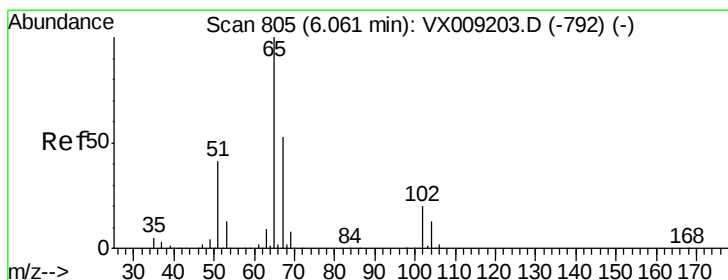
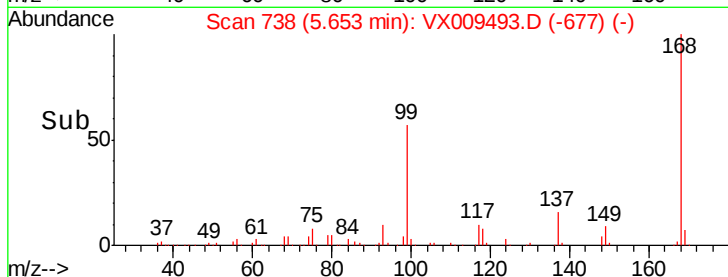
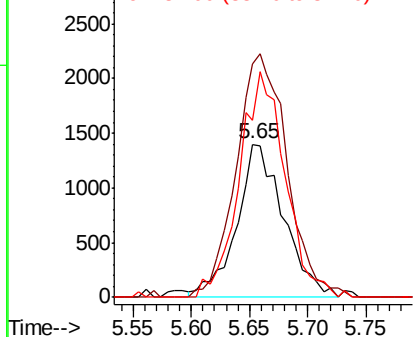
#31
Cyclohexane
Concen: 1.099 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Instrument :
MSVOA_X
ClientSampleId :
Z4-TB05-190509

Tot Ion: 56 Resp: 3921
Ion Ratio Lower Upper
56 100
69 152.6 23.4 35.0#
84 115.6 61.9 92.9#

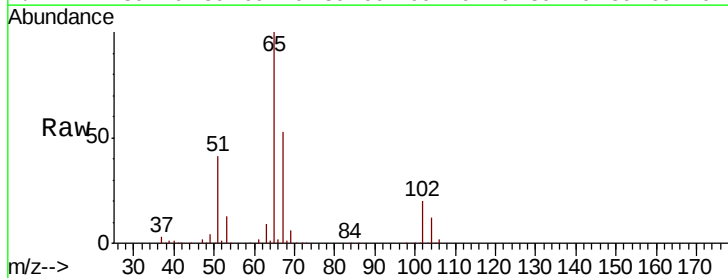


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

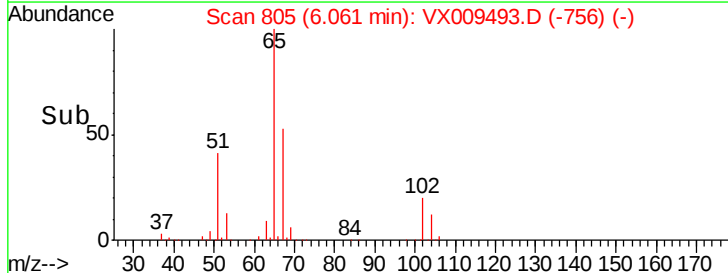
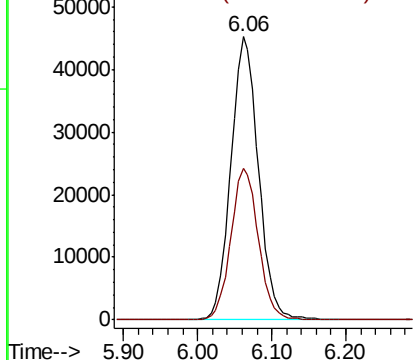


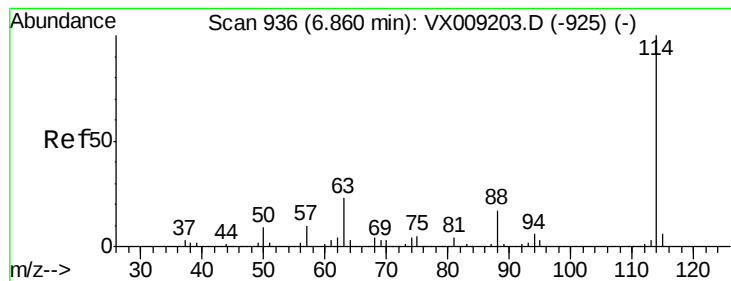
#33
1,2-Dichloroethane-d4
Concen: 48.585 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Tgt Ion: 65 Resp: 117296
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.6



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: VX009493.D

Acq: 10 May 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

Z4-TB05-190509

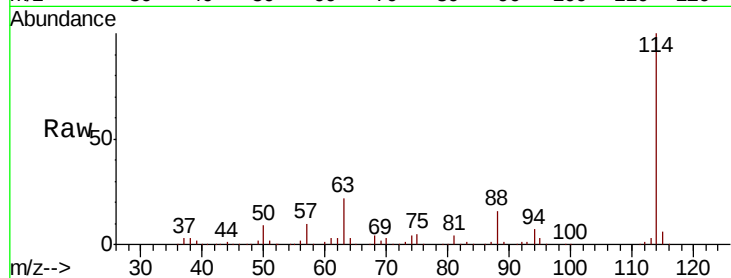
Tot Ion:114 Resp: 285033

Ion Ratio Lower Upper

114 100

63 22.0 0.0 45.6

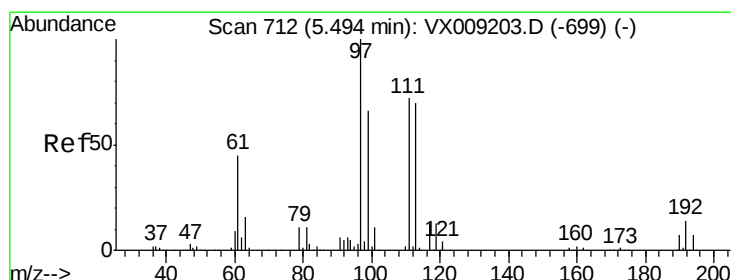
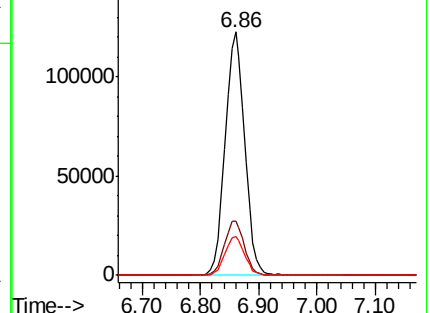
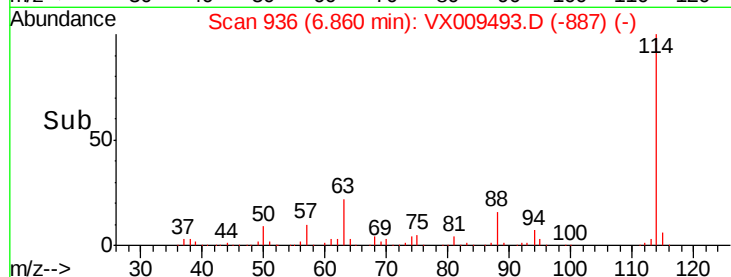
88 15.9 0.0 33.2



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: 48.291 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

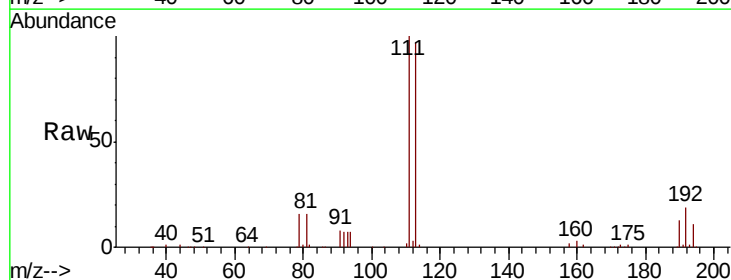
Tgt Ion:113 Resp: 86530

Ion Ratio Lower Upper

113 100

111 101.9 82.8 124.2

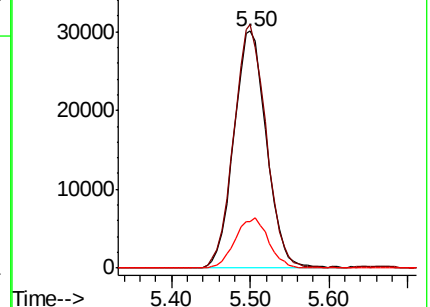
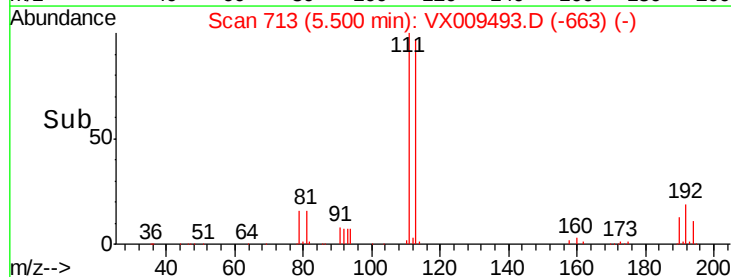
192 21.6 17.0 25.6

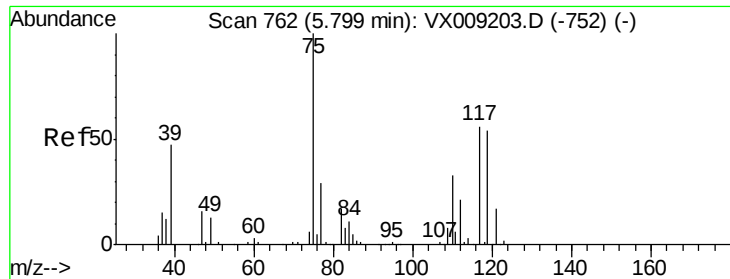


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

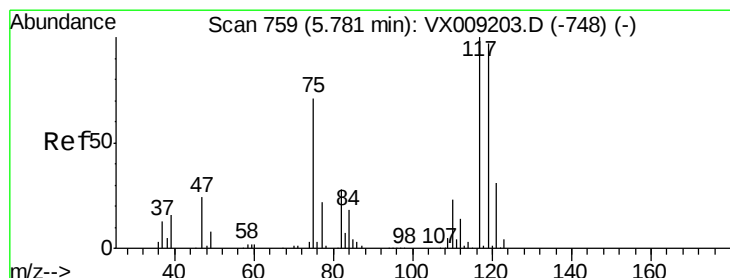
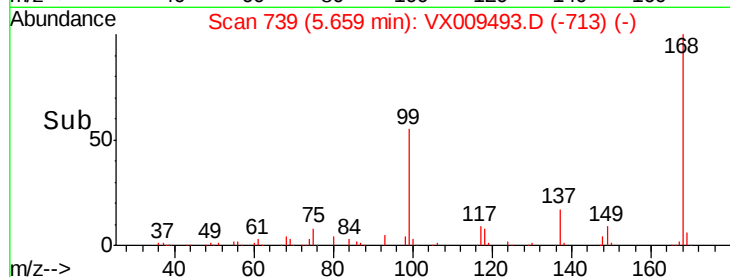
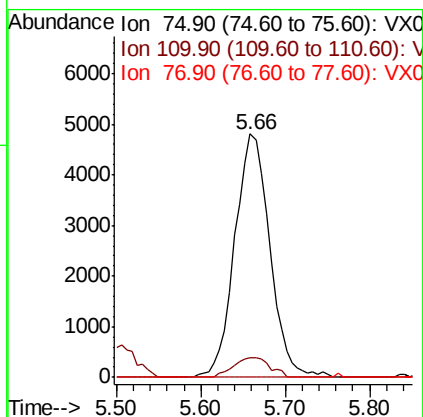
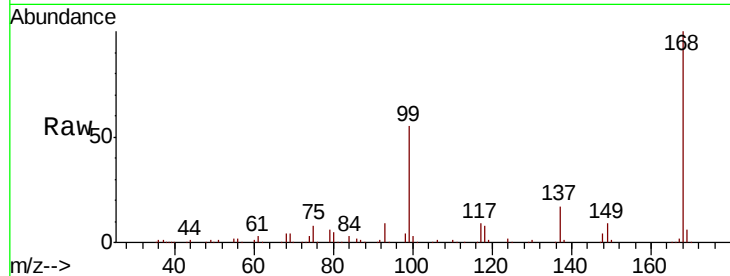




#36
 1,1-Dichloropropene
 Concen: 5.117 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009493.D
 Acq: 10 May 2019 20:03

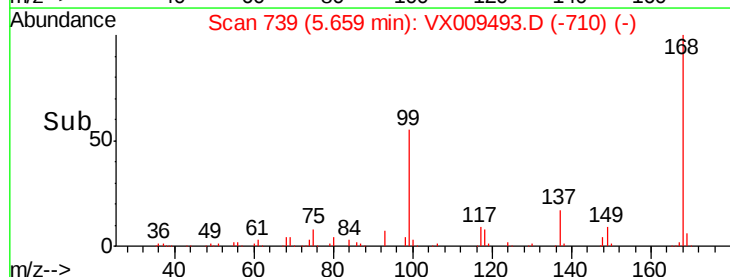
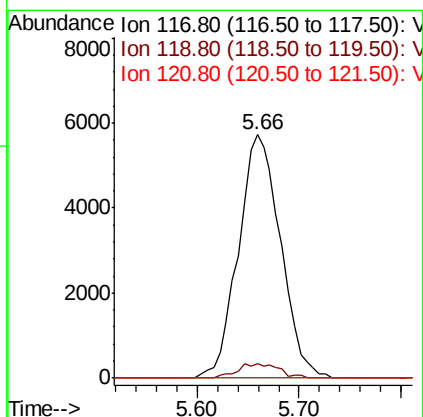
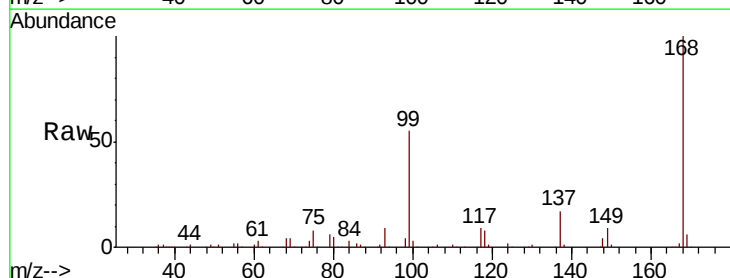
Instrument :
 MSVOA_X
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 Z4-TB05-190509

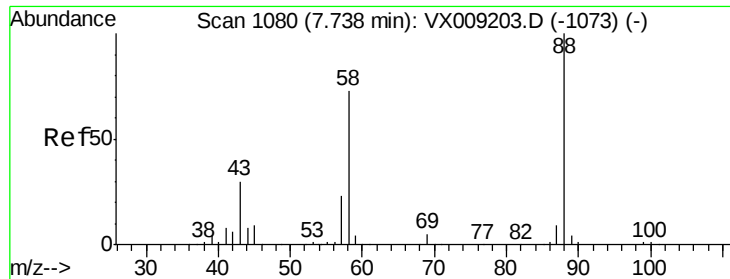
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.9	50.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.814 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009493.D
 Acq: 10 May 2019 20:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.5	116.3#
121	0.0	24.7	37.1#

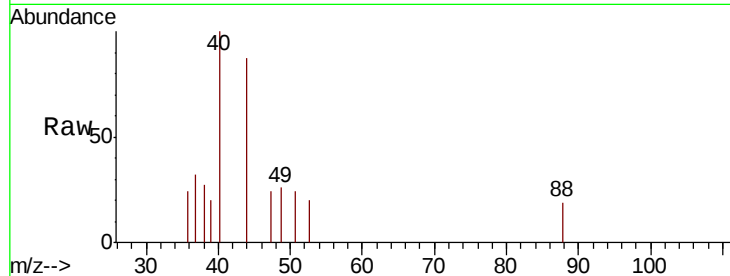




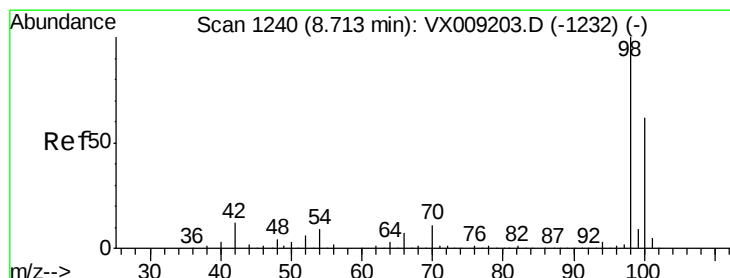
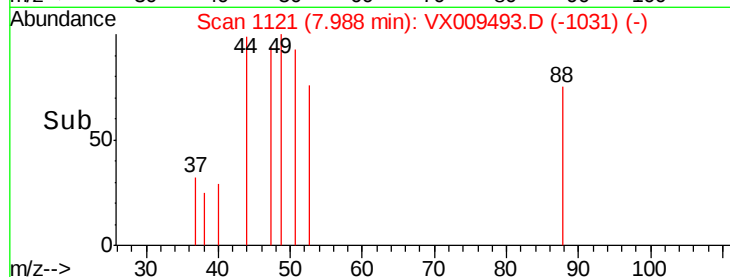
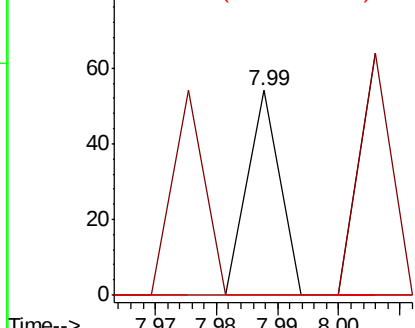
#49
1,4-Dioxane
Concen: 0.337 ug/l
RT: 7.99 min Scan# 1121
Delta R.T. 0.25 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Instrument :
MSVOA_X
ClientSampleId :
Z4-TB05-190509

Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 100.0 28.6 42.8#
58 0.0 61.7 92.5#

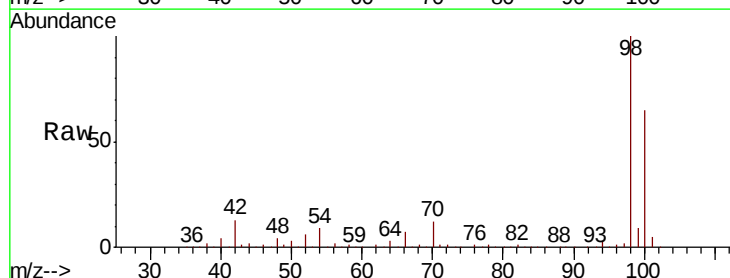


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

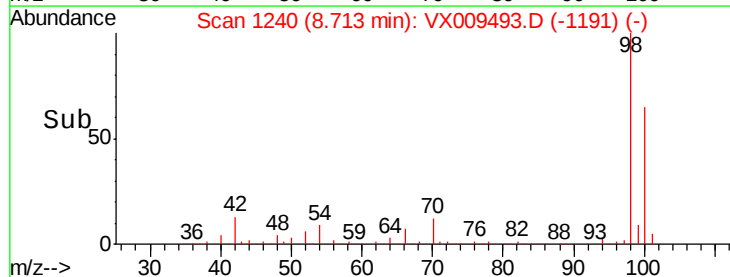
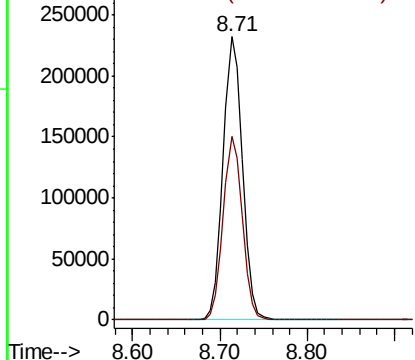


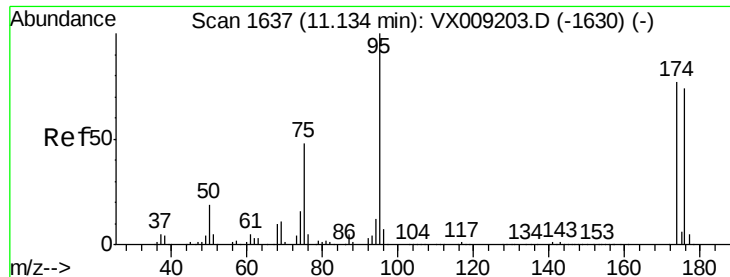
#50
Toluene-d8
Concen: 49.260 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Tgt Ion: 98 Resp: 356347
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



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

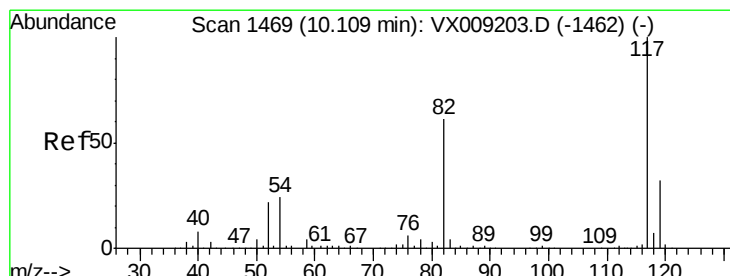
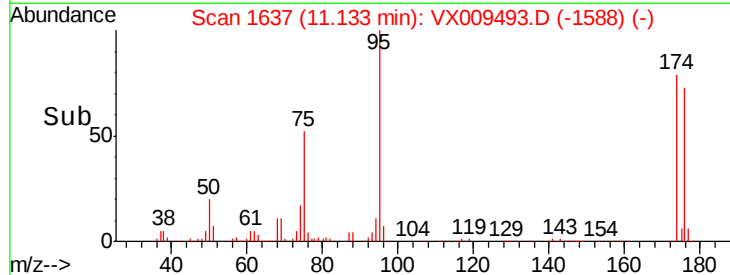
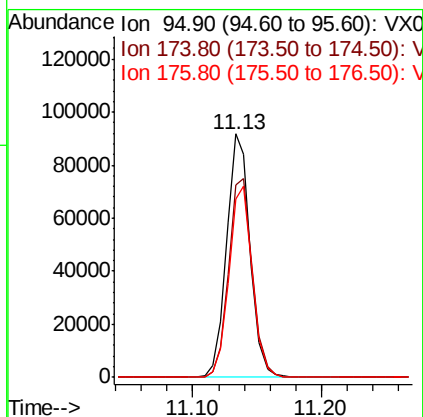
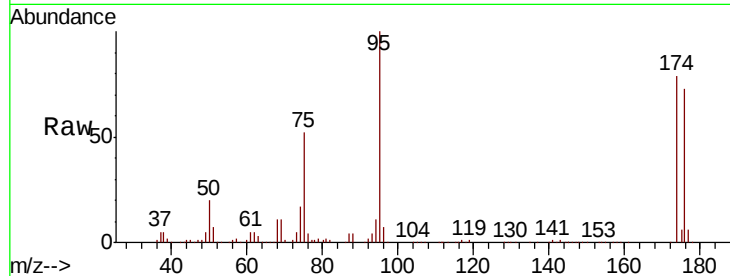




#62
4-Bromofluorobenzene
Concen: 44.589 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

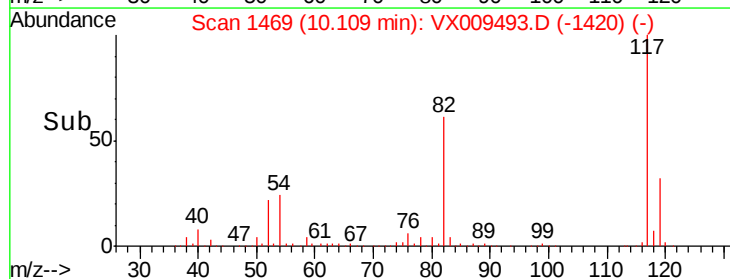
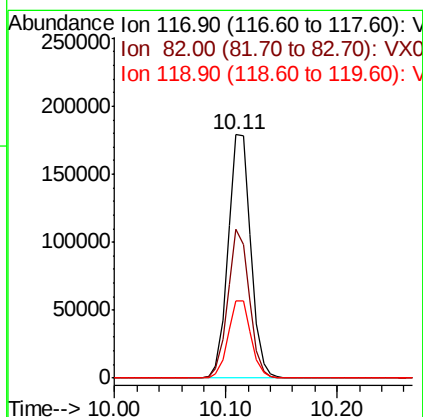
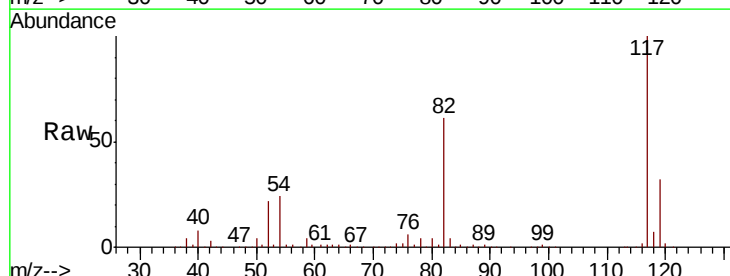
Instrument :
MSVOA_X
ClientSampleId :
Z4-TB05-190509

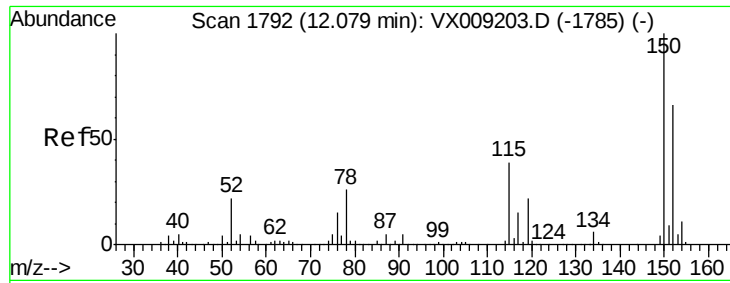
Tot Ion: 95 Resp: 117207
Ion Ratio Lower Upper
95 100
174 83.2 0.0 161.6
176 78.7 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009493.D
Acq: 10 May 2019 20:03

Tgt Ion: 117 Resp: 251001
Ion Ratio Lower Upper
117 100
82 61.2 48.8 73.2
119 31.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

Z4-TB05-190509

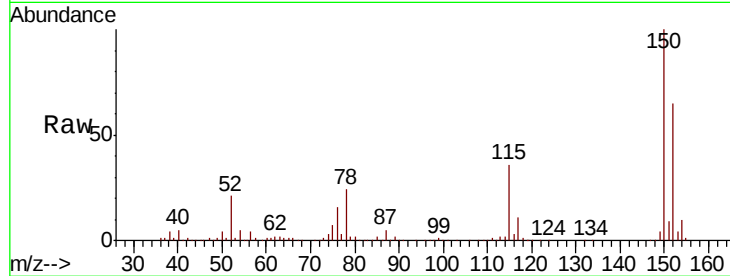
Tot Ion:152 Resp: 106284

Ion Ratio Lower Upper

152 100

115 57.4 41.2 123.6

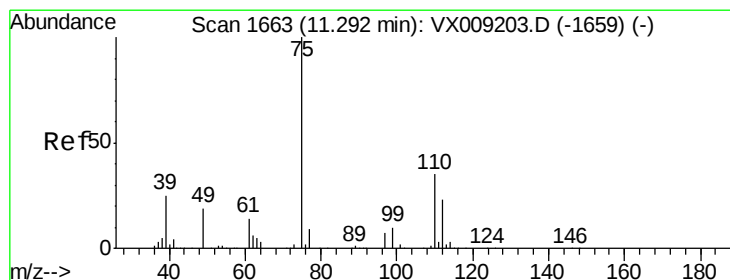
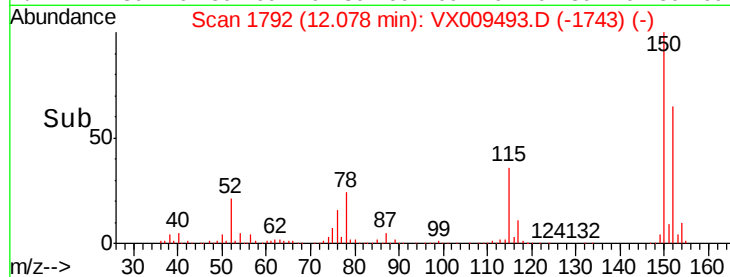
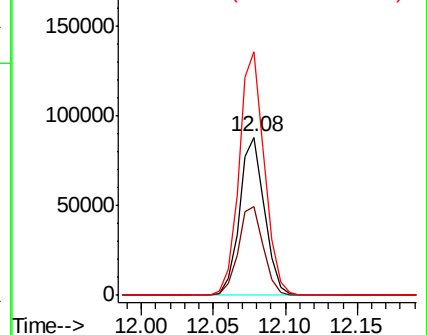
150 156.2 0.0 346.4



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: 24.601 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009493.D

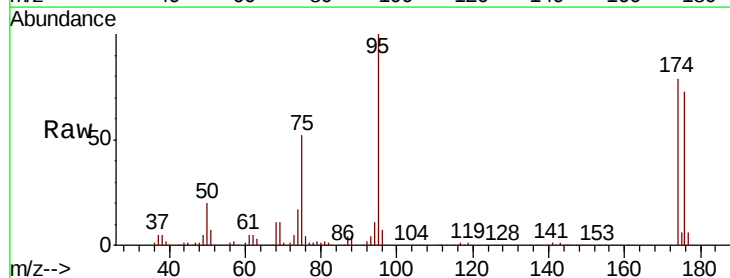
Acq: 10 May 2019 20:03

Tgt Ion: 75 Resp: 60651

Ion Ratio Lower Upper

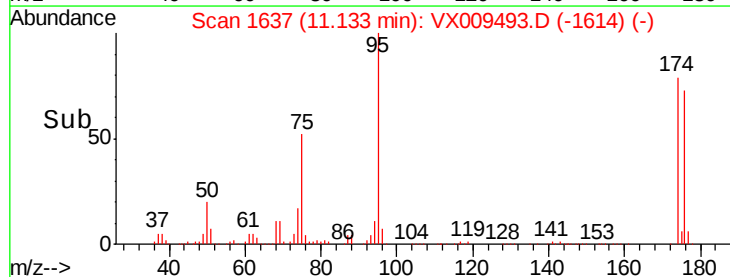
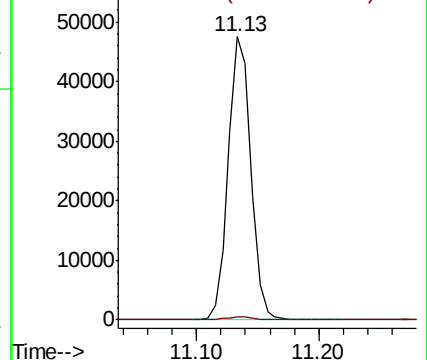
75 100

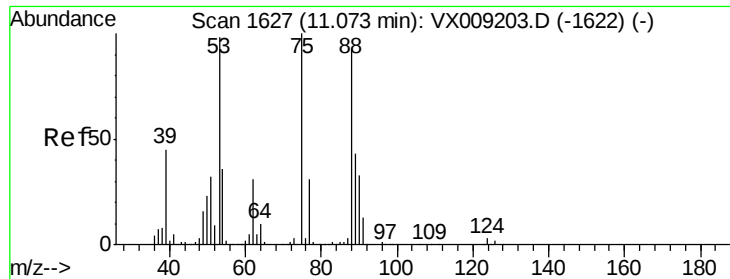
77 1.3 22.1 66.1#



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: 62.945 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009493.D

Acq: 10 May 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

Z4-TB05-190509

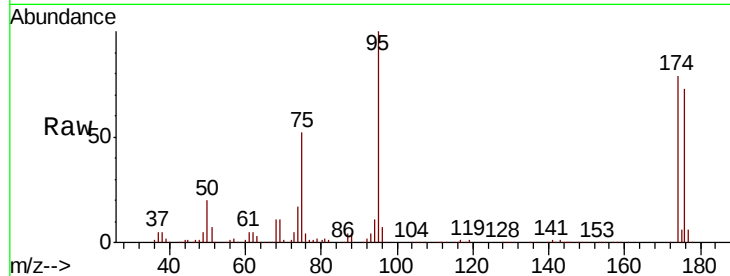
Tot Ion: 75 Resp: 60651

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

