

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\
 Data File : VX010459.D
 Acq On : 26 Jun 2019 13:49
 Operator : JC/SP
 Sample : K3527-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 01:12:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	253952	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	392118	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	355172	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164715	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	120050	50.42	ug/l	0.00
Spiked Amount						
			Recovery	=	100.84%	
35) Dibromofluoromethane	5.50	113	117895	49.14	ug/l	0.00
Spiked Amount						
			Recovery	=	98.28%	
50) Toluene-d8	8.71	98	465788	50.75	ug/l	0.00
Spiked Amount						
			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.13	95	152797	46.11	ug/l	0.00
Spiked Amount						
			Recovery	=	92.22%	

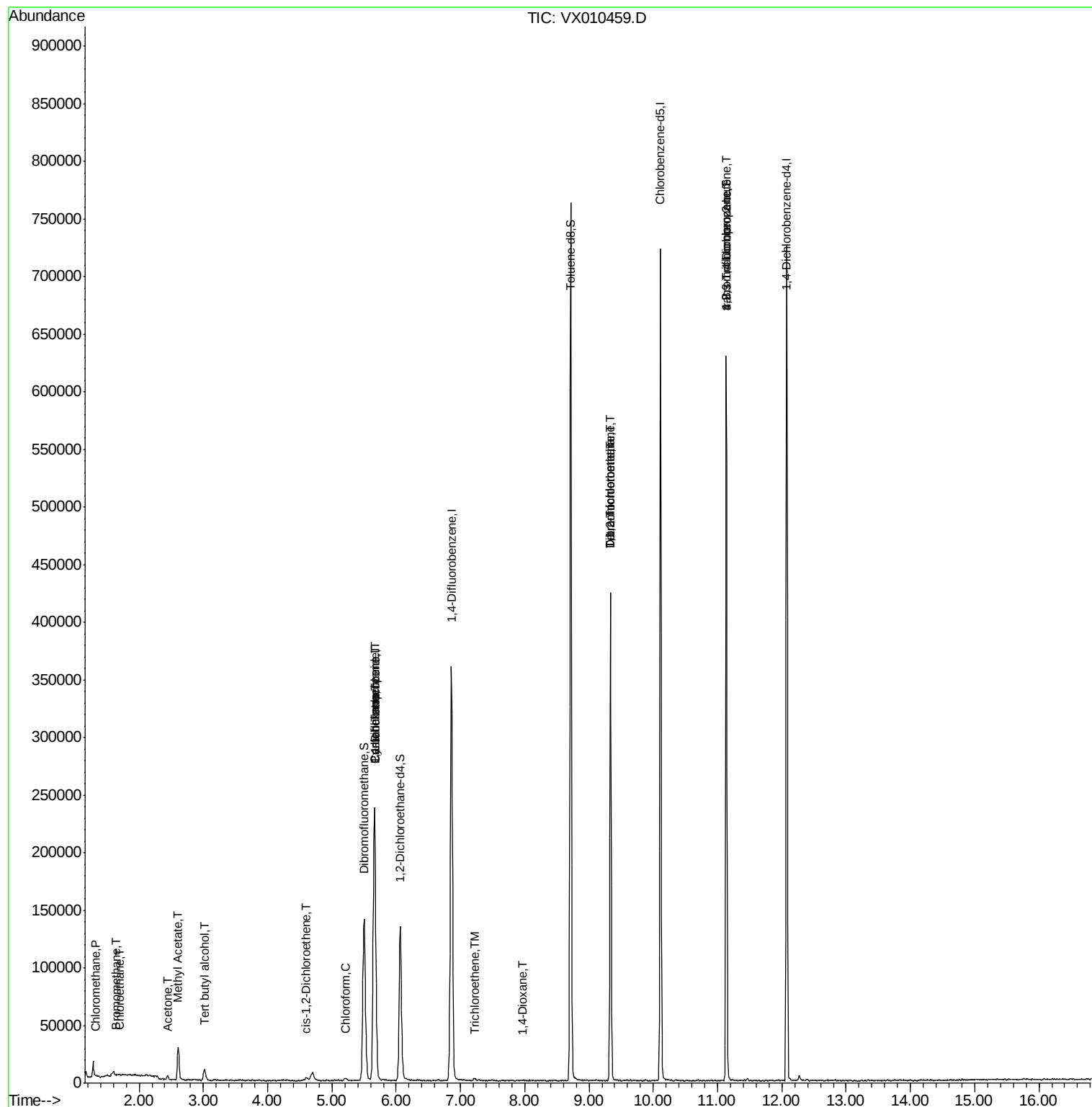
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	432	0.210	ug/l	97
5) Bromomethane	1.65	94	588	0.536	ug/l #	24
6) Chloroethane	1.70	64	270	0.203	ug/l #	87
11) Tert butyl alcohol	3.02	59	5724	9.187	ug/l #	81
16) Acetone	2.45	43	4158	3.484	ug/l	92
18) Methyl Acetate	2.60	43	7617	3.203	ug/l #	48
27) cis-1,2-Dichloroethene	4.60	96	1577	0.576	ug/l	85
30) Chloroform	5.21	83	1861	0.458	ug/l	99
31) Cyclohexane	5.67	56	4529	1.317	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15728	5.048	ug/l #	47
38) Carbon Tetrachloride	5.67	117	21958	6.508	ug/l #	16
44) Trichloroethene	7.23	130	611	0.210	ug/l	76
49) 1,4-Dioxane	7.96	88	19	0.268	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	643	0.244	ug/l #	7
60) Dibromochloromethane	9.34	129	76189	25.809	ug/l #	11
64) Tetrachloroethene	9.34	164	86020	29.944	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	72582	24.182	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72582	56.413	ug/l #	16

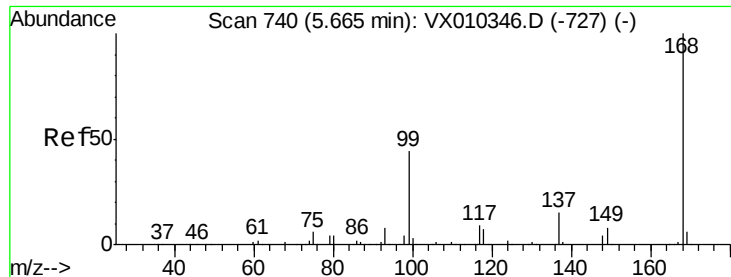
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
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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: VX010459.D

Acq: 26 Jun 2019 13:49

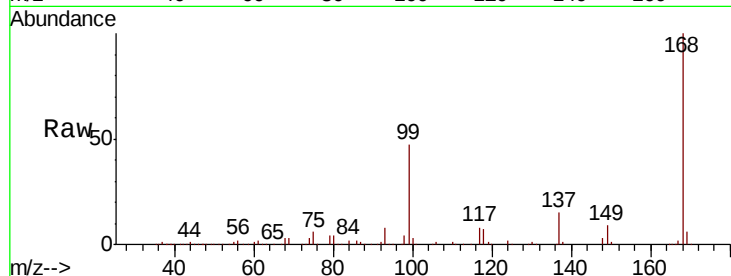
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 253952

Ion Ratio Lower Upper

168 100

99 46.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

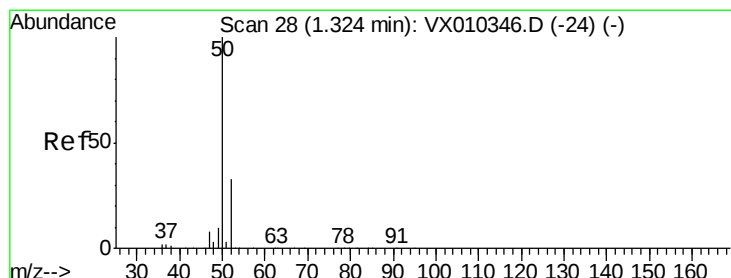
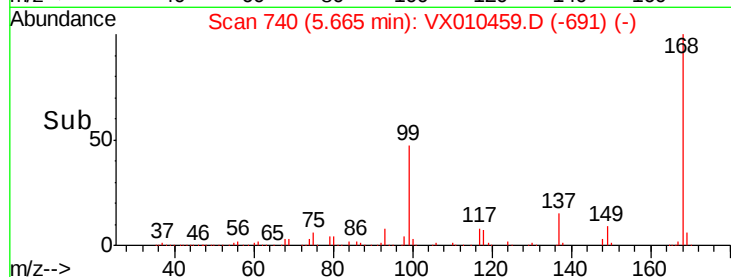
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.210 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010459.D

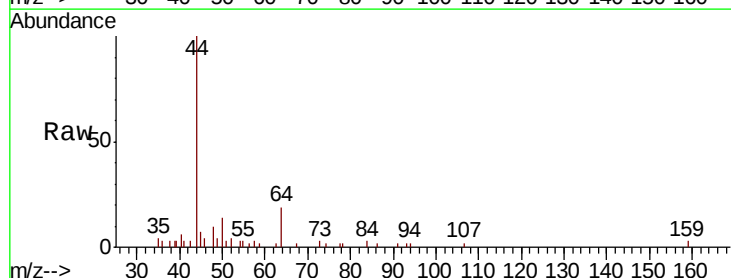
Acq: 26 Jun 2019 13:49

Tgt Ion: 50 Resp: 432

Ion Ratio Lower Upper

50 100

52 31.5 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

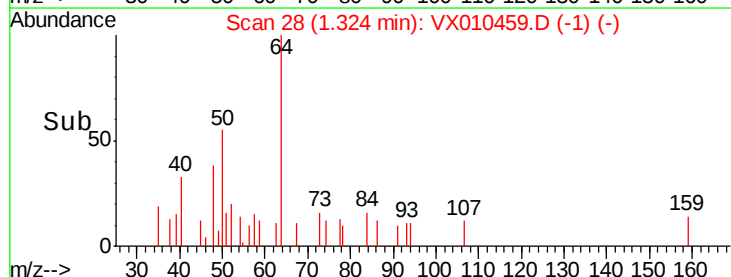
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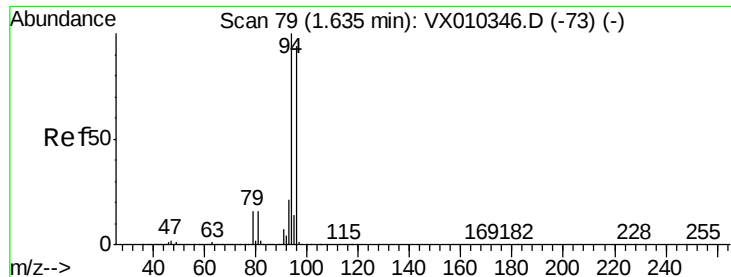
200

100

0

Time--> 1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.536 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010459.D

Acq: 26 Jun 2019 13:49

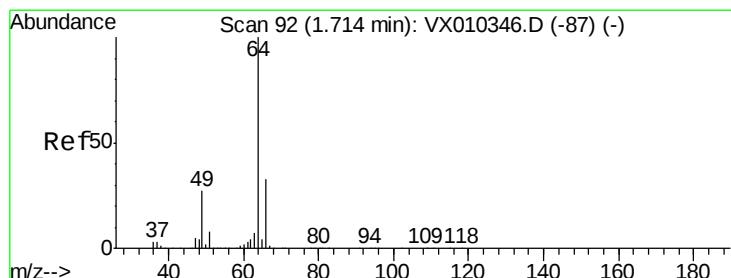
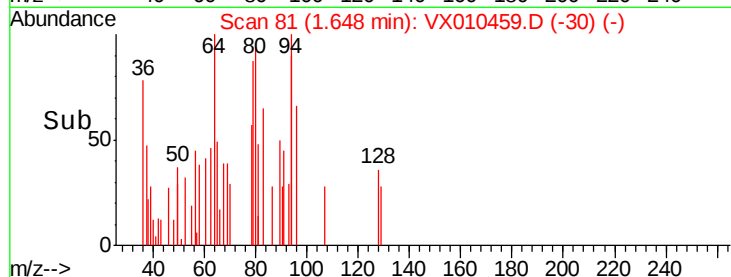
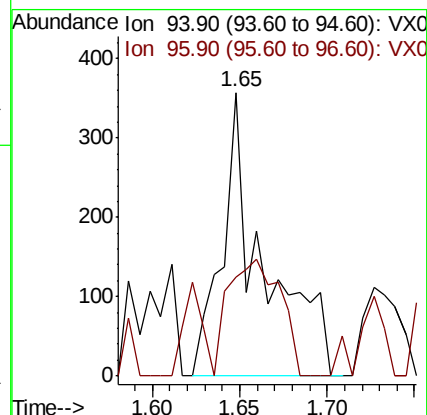
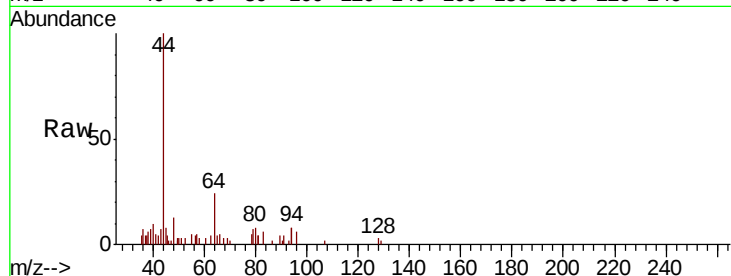
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 588

Ion Ratio Lower Upper

94 100

96 20.7 75.5 113.3#



#6

Chloroethane

Concen: 0.203 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX010459.D

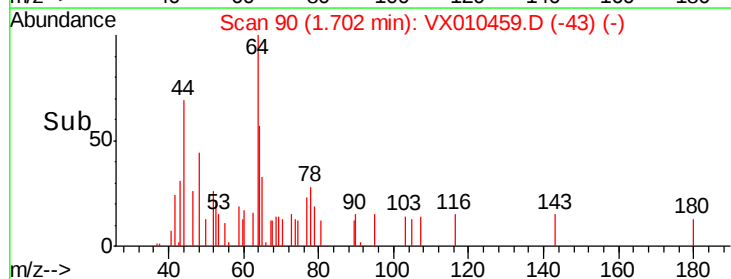
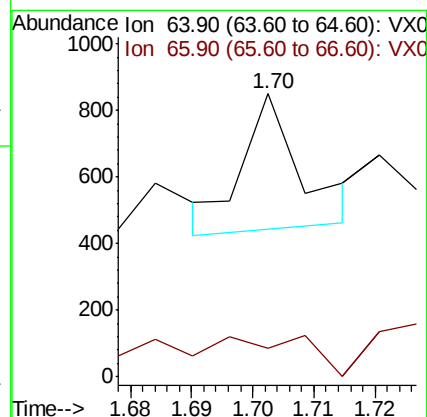
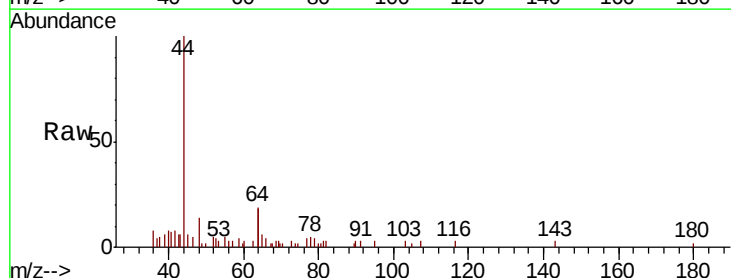
Acq: 26 Jun 2019 13:49

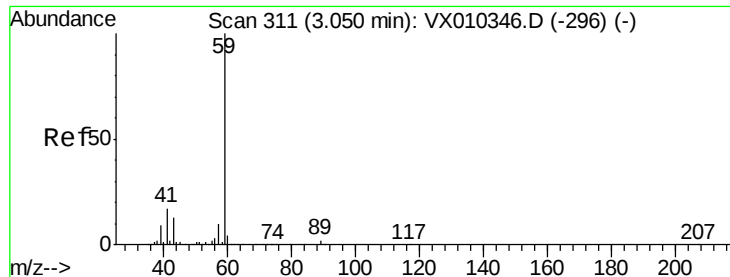
Tgt Ion: 64 Resp: 270

Ion Ratio Lower Upper

64 100

66 25.8 26.6 40.0#

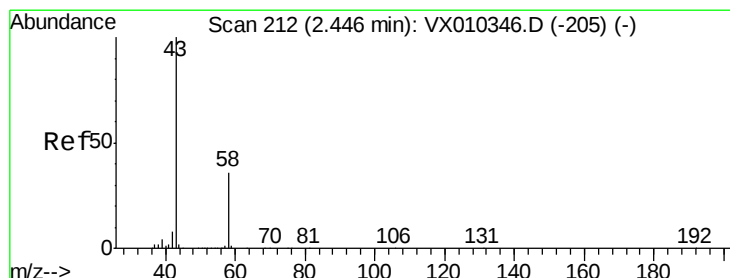
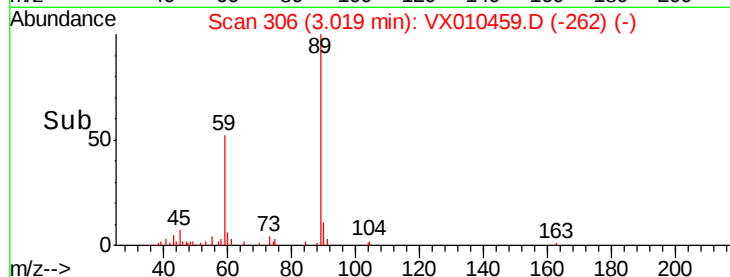
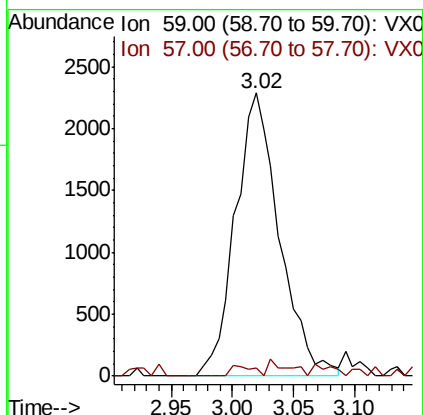
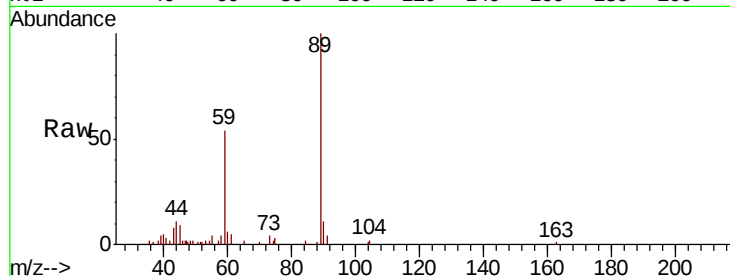




#11
Tert butyl alcohol
Concen: 9.187 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

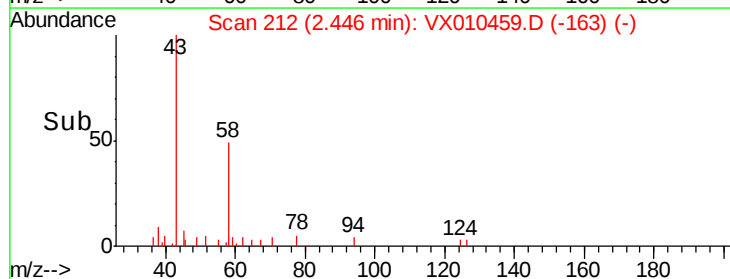
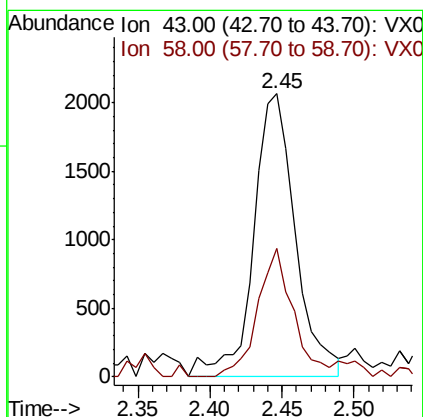
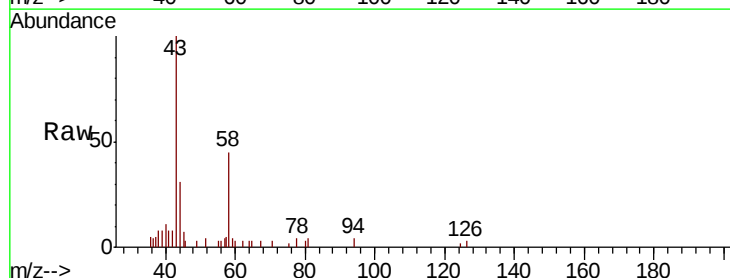
Instrument :
MSVOA_X
ClientSampled :

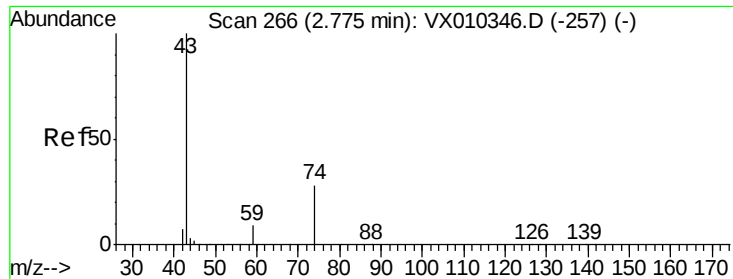
Tot Ion: 59 Resp: 5724
Ion Ratio Lower Upper
59 100
57 2.6 7.7 11.5#



#16
Acetone
Concen: 3.484 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

Tgt Ion: 43 Resp: 4158
Ion Ratio Lower Upper
43 100
58 40.7 28.9 43.3

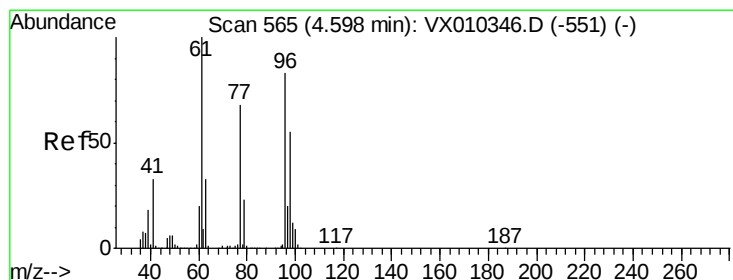
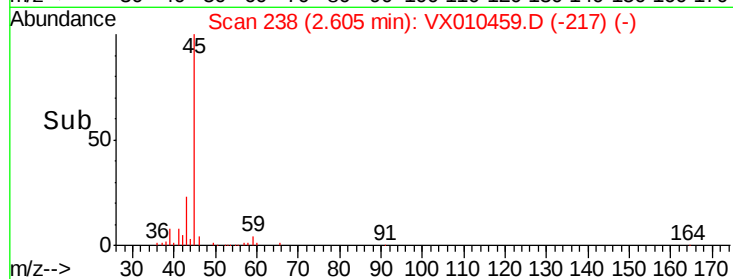
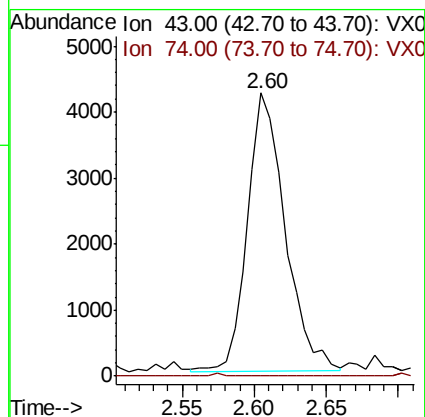
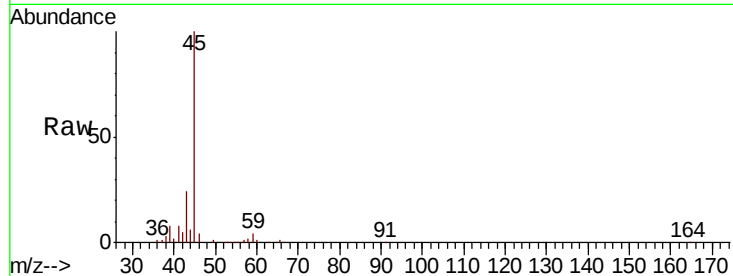




#18
Methyl Acetate
Concen: 3.203 ug/l
RT: 2.60 min Scan# 238
Delta R.T. -0.17 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

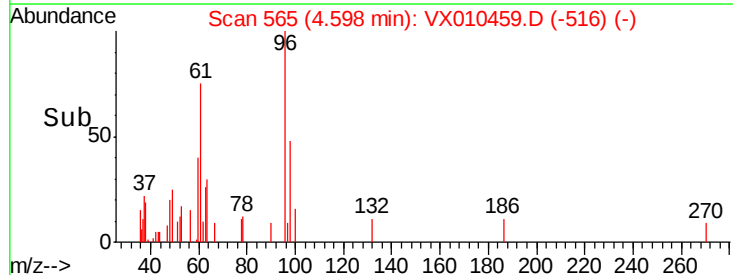
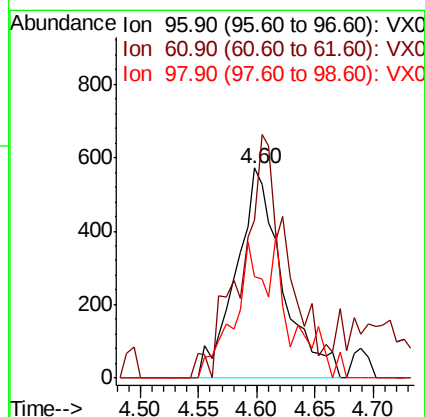
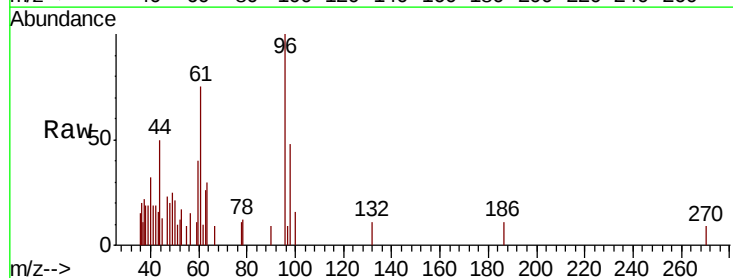
Instrument :
MSVOA_X
ClientSampled :

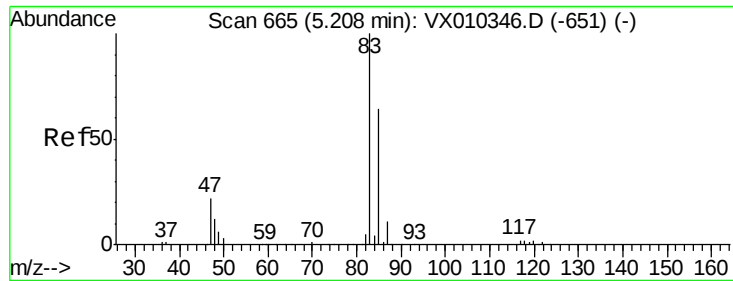
Tot Ion: 43 Resp: 7617
Ion Ratio Lower Upper
43 100
74 0.0 21.3 31.9#



#27
cis-1,2-Dichloroethene
Concen: 0.576 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

Tgt Ion: 96 Resp: 1577
Ion Ratio Lower Upper
96 100
61 116.5 0.0 251.8
98 42.4 0.0 129.4

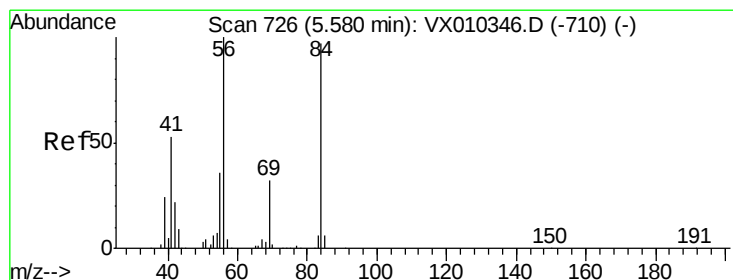
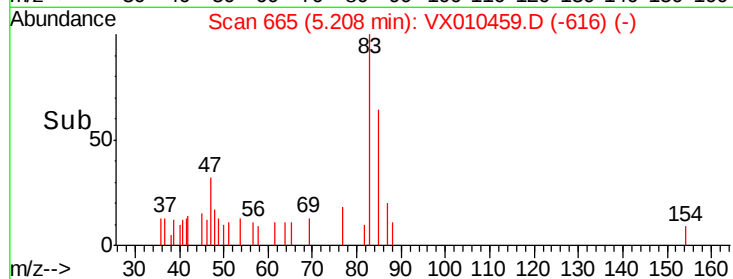
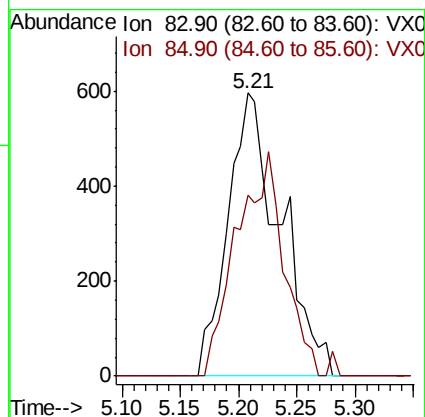
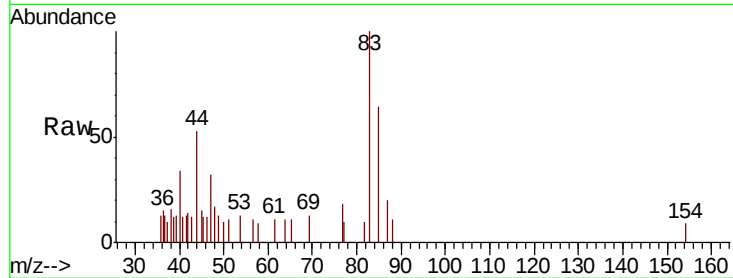




#30
Chloroform
Concen: 0.458 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

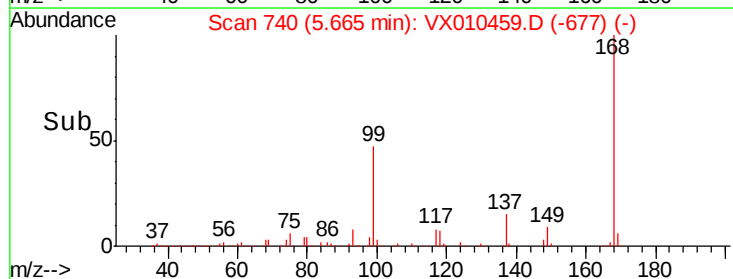
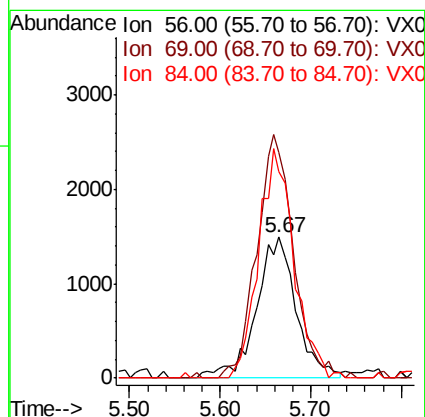
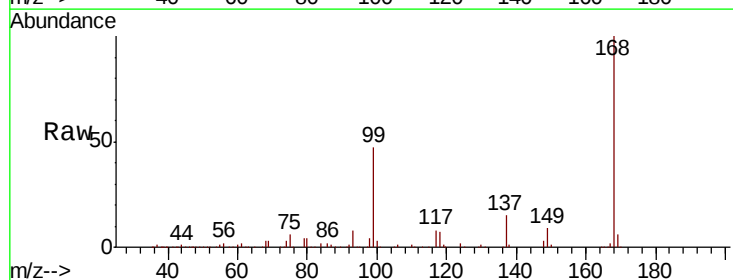
Instrument :
MSVOA_X
ClientSampleId :

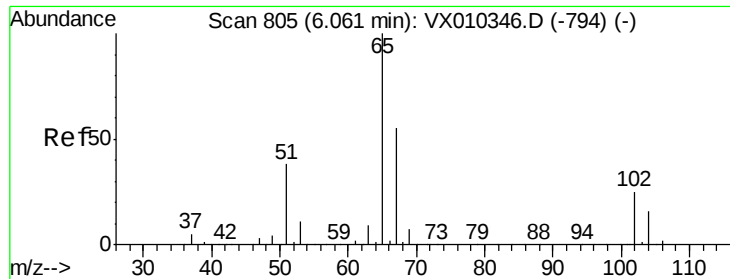
Tot Ion: 83 Resp: 1861
Ion Ratio Lower Upper
83 100
85 64.1 50.9 76.3



#31
Cyclohexane
Concen: 1.317 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

Tgt Ion: 56 Resp: 4529
Ion Ratio Lower Upper
56 100
69 166.8 25.9 38.9#
84 152.8 78.0 117.0#

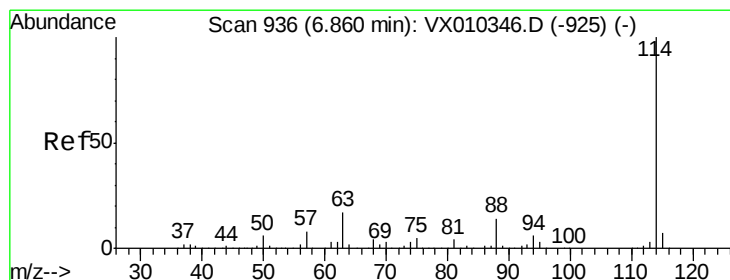
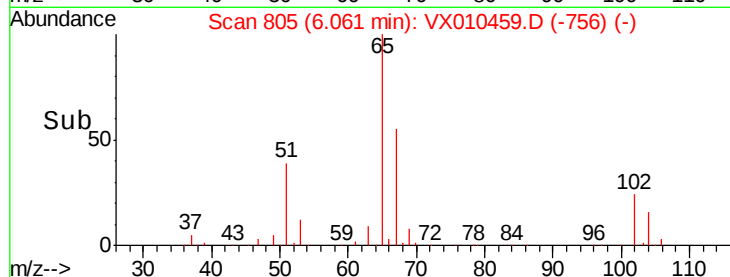
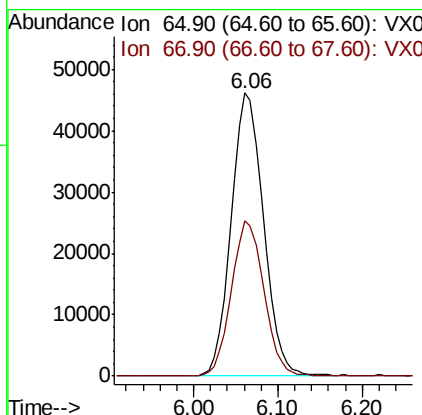
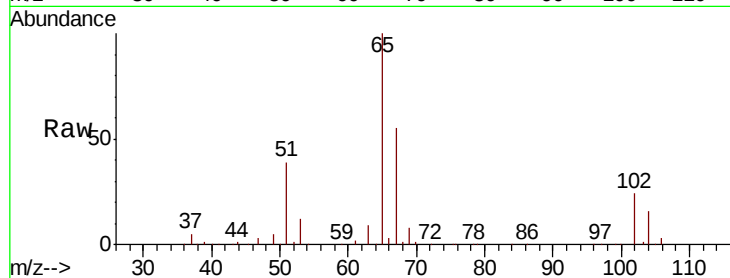




#33
 1,2-Dichloroethane-d4
 Concen: 50.419 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

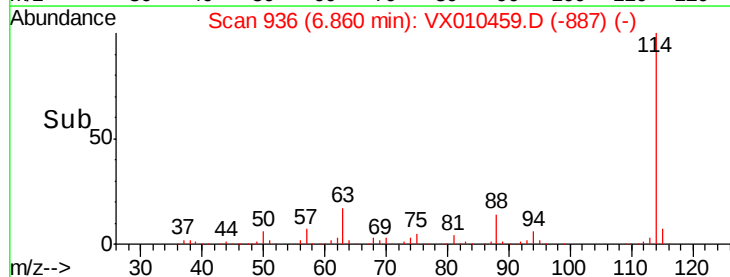
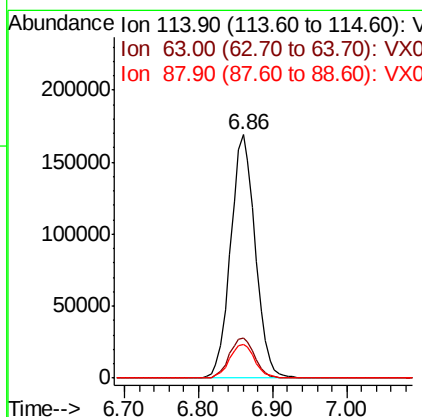
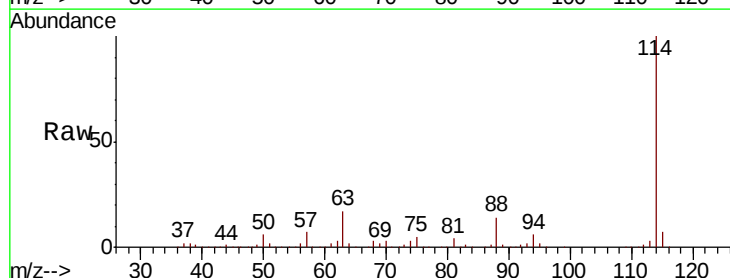
Instrument :
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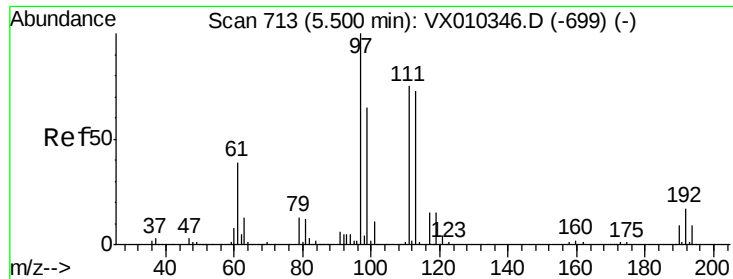
Tot Ion: 65 Resp: 120050
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

Tgt Ion: 114 Resp: 392118
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 33.8
 88 14.0 0.0 27.6

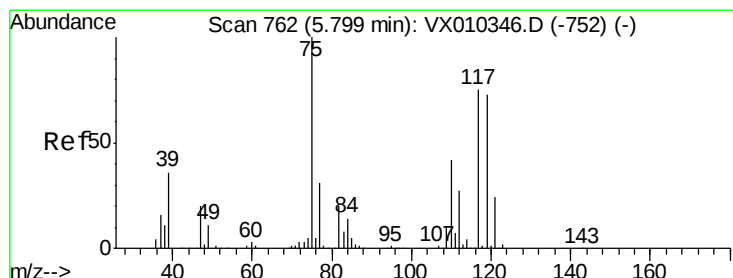
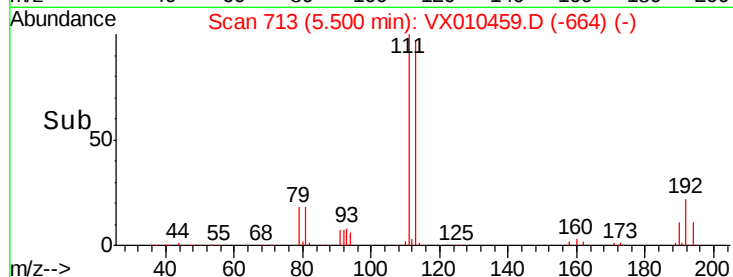
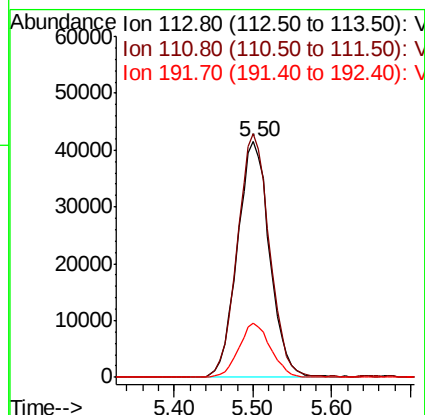
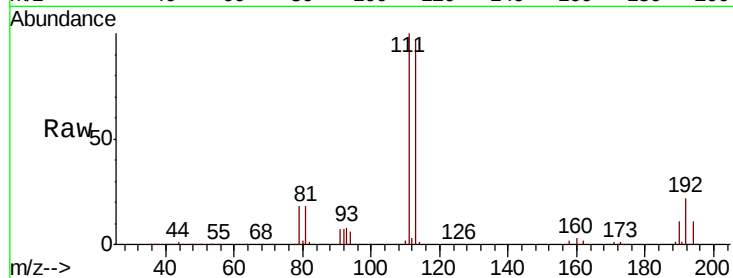




#35
 Dibromofluoromethane
 Concen: 49.141 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

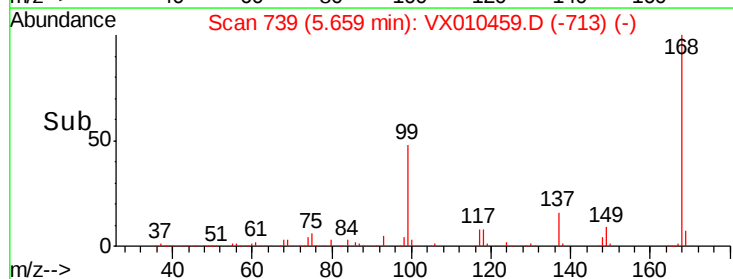
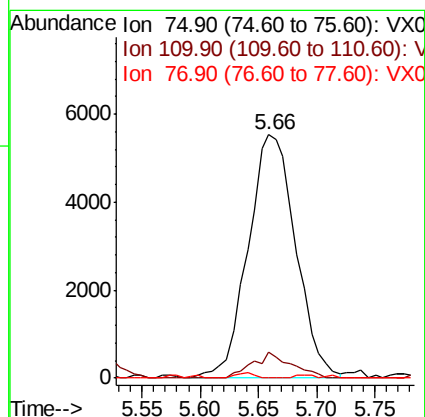
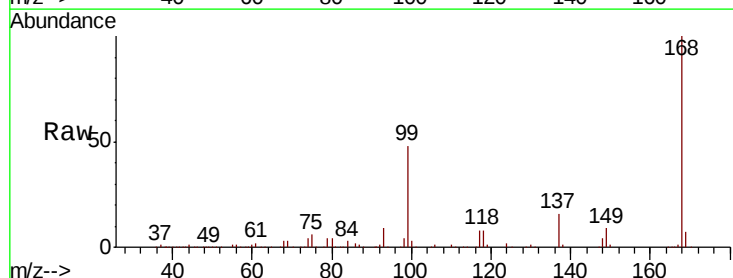
Instrument :
 MSVOA_X
 ClientSampled :

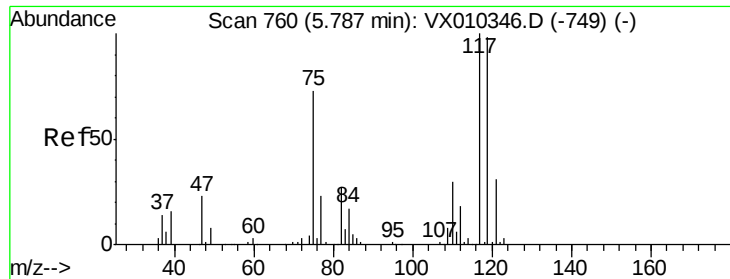
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.2	121.8
192	22.8	18.6	27.8



#36
 1,1-Dichloropropene
 Concen: 5.048 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	20.8	62.2#
77	0.8	25.4	38.0#





#38

Carbon Tetrachloride

Concen: 6.508 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010459.D

Acq: 26 Jun 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

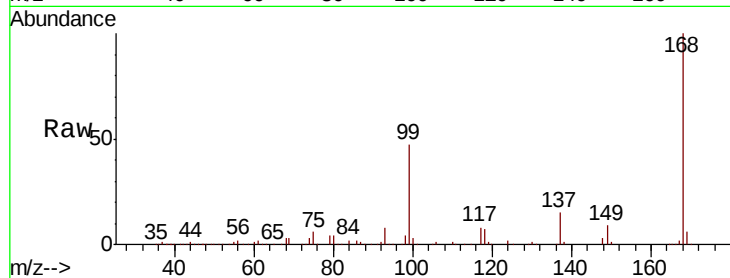
Tot Ion:117 Resp: 21958

Ion Ratio Lower Upper

117 100

119 6.0 78.2 117.4#

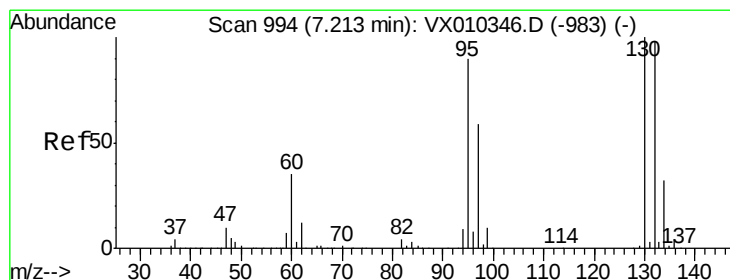
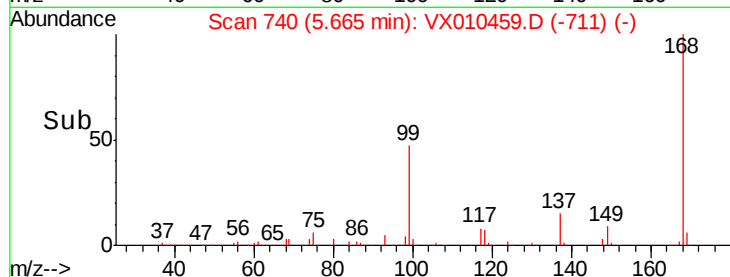
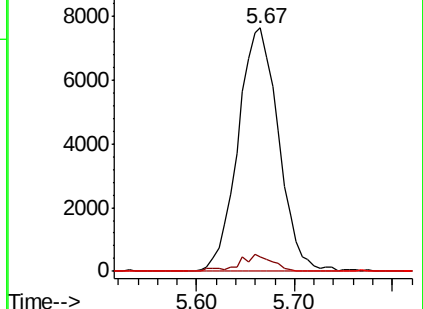
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 0.210 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX010459.D

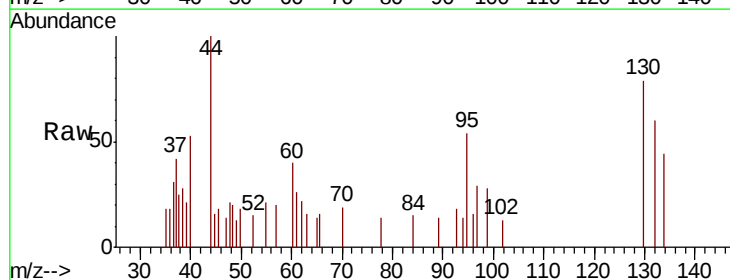
Acq: 26 Jun 2019 13:49

Tgt Ion:130 Resp: 611

Ion Ratio Lower Upper

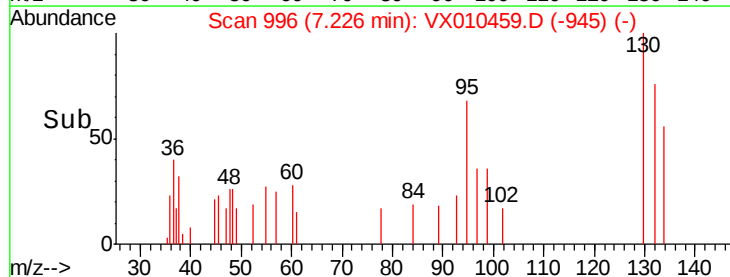
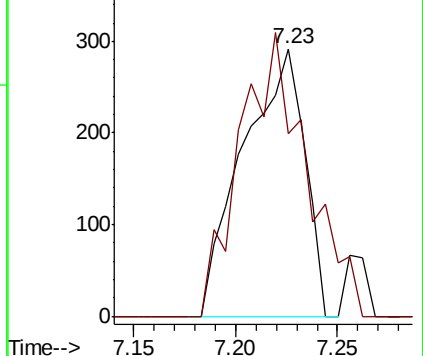
130 100

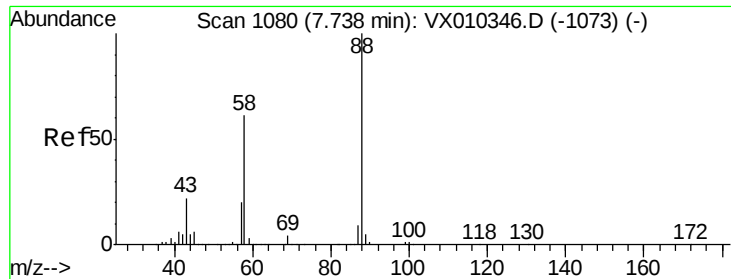
95 68.2 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

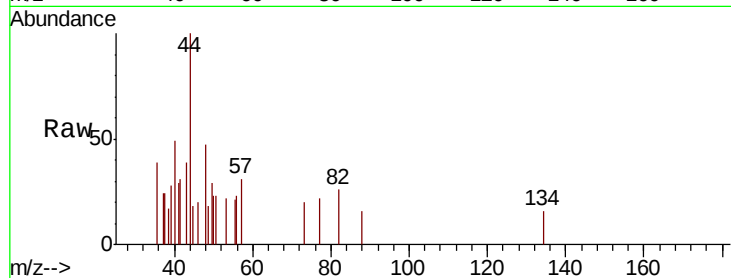




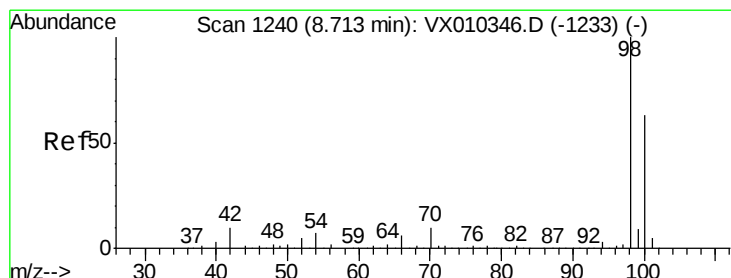
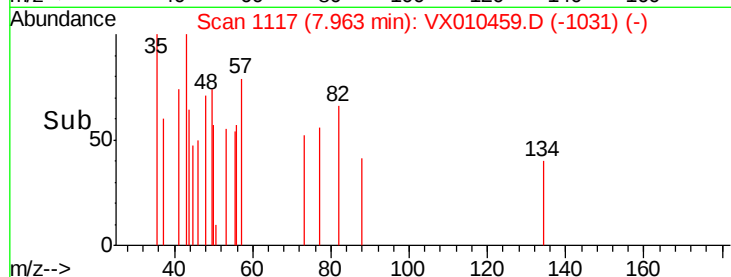
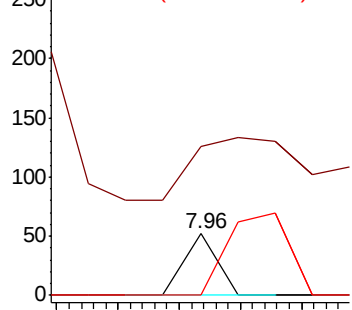
#49
1,4-Dioxane
Concen: 0.268 ug/l
RT: 7.96 min Scan# 1117
Delta R.T. 0.23 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1521.1 20.2 30.2#
58 252.6 49.5 74.3#

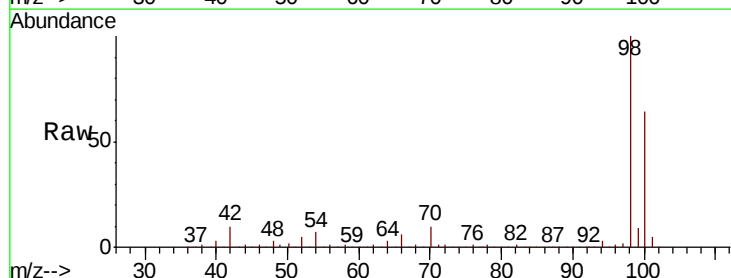


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

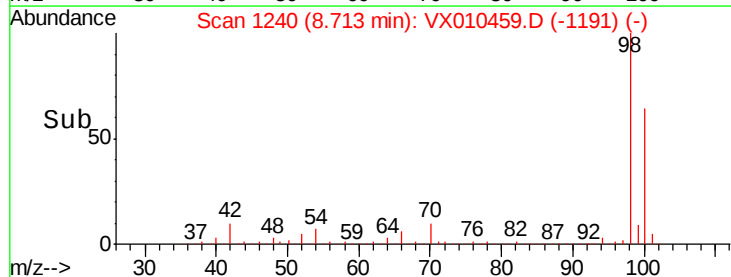
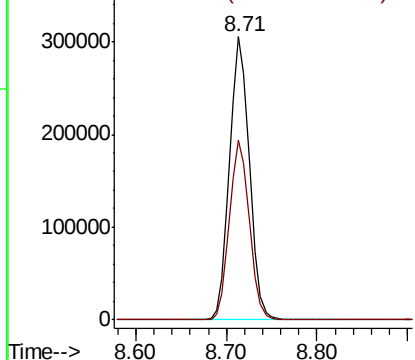


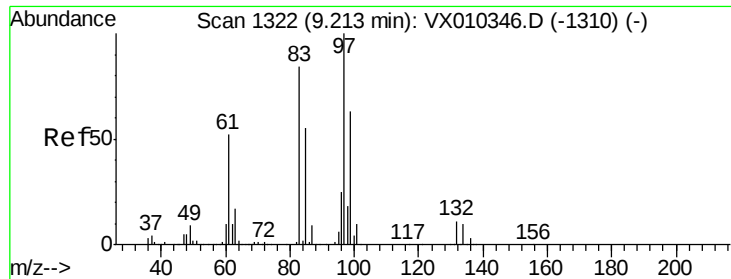
#50
Toluene-d8
Concen: 50.747 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010459.D
Acq: 26 Jun 2019 13:49

Tgt Ion: 98 Resp: 465788
Ion Ratio Lower Upper
98 100
100 63.5 51.6 77.4



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

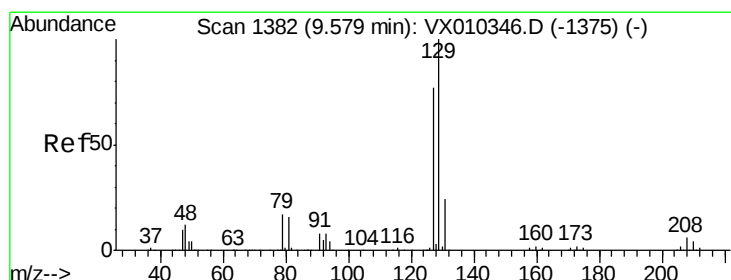
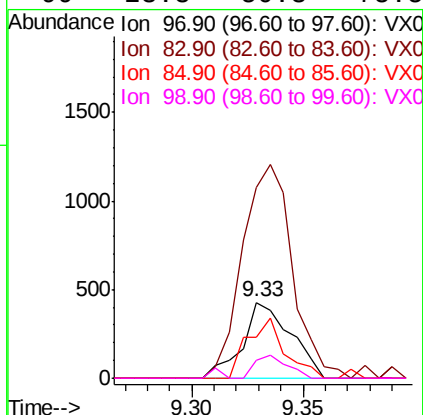
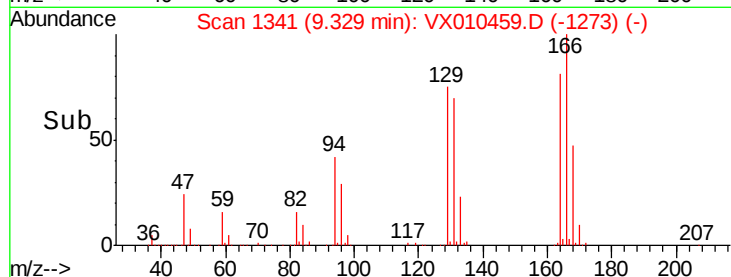
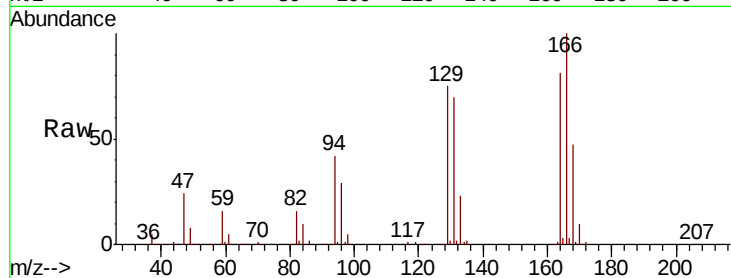




#55
 1,1,2-Trichloroethane
 Concen: 0.244 ug/l
 RT: 9.33 min Scan# 1341
 Delta R.T. 0.12 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

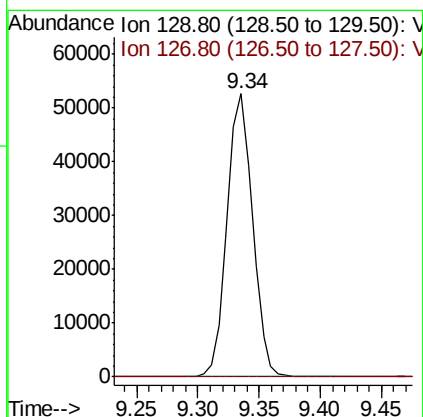
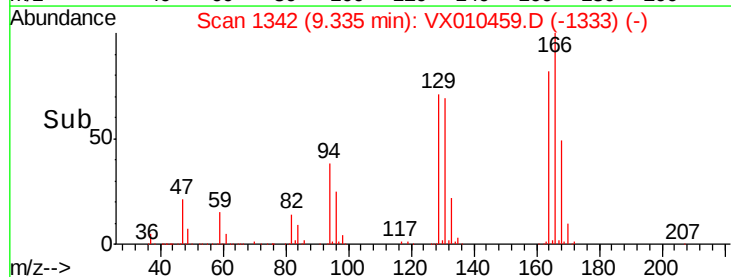
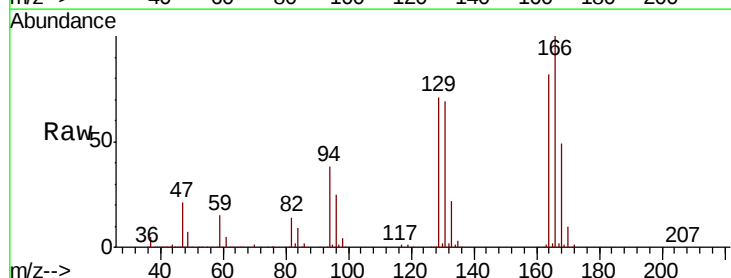
Instrument :
 MSVOA_X
 ClientSampleId :

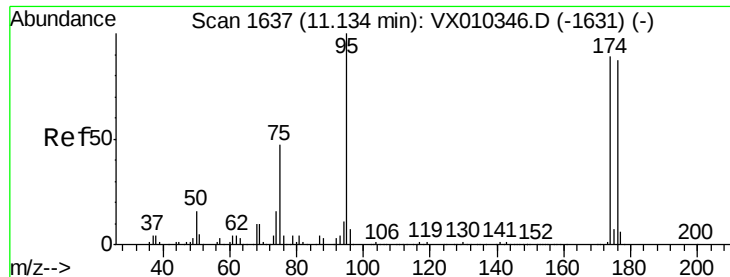
Tot Ion: 97 Resp: 643
 Ion Ratio Lower Upper
 97 100
 83 251.6 67.4 101.0#
 85 54.4 43.8 65.8
 99 23.8 50.3 75.5#



#60
 Dibromochloromethane
 Concen: 25.809 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

Tgt Ion: 129 Resp: 76189
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 46.110 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010459.D

Acq: 26 Jun 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

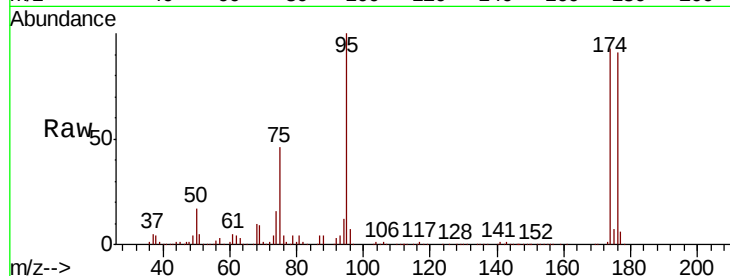
Tot Ion: 95 Resp: 152797

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.6

176 94.1 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010346.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010346.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010346.D (-1631) (-)

11.13

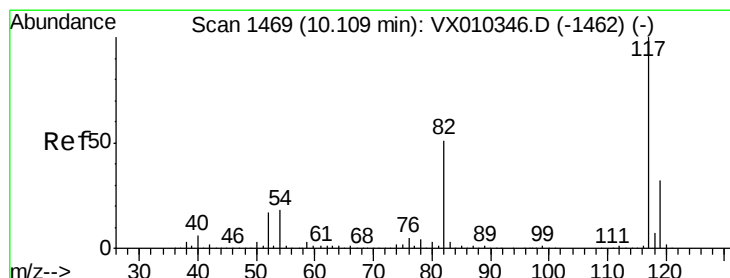
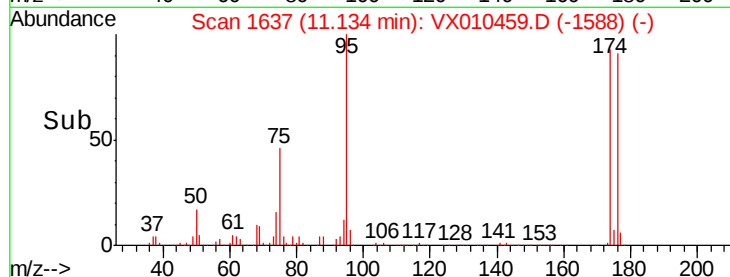
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010459.D

Acq: 26 Jun 2019 13:49

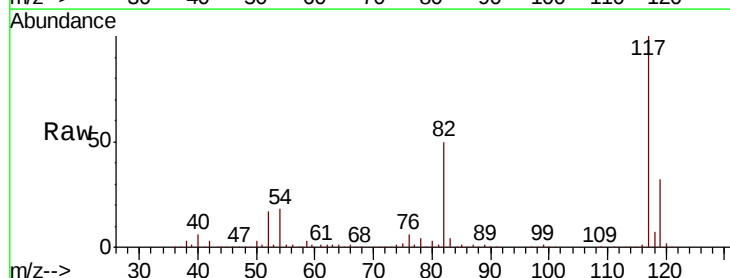
Tgt Ion: 117 Resp: 355172

Ion Ratio Lower Upper

117 100

82 50.1 41.2 61.8

119 32.1 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VX010346.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010346.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010346.D (-1462) (-)

10.11

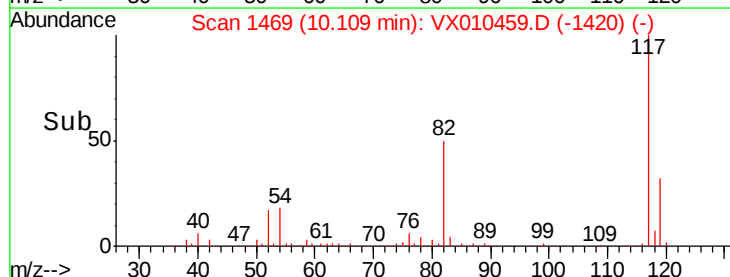
300000

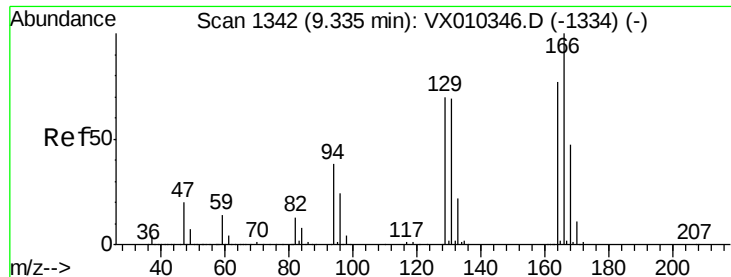
200000

100000

0

Time-->





#64

Tetrachloroethene

Concen: 29.944 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010459.D

Acq: 26 Jun 2019 13:49

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:164 Resp: 86020

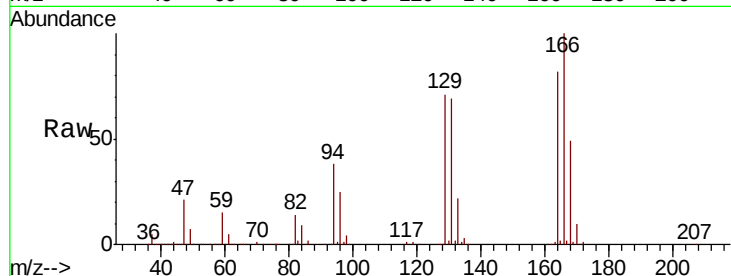
Ion Ratio Lower Upper

164 100

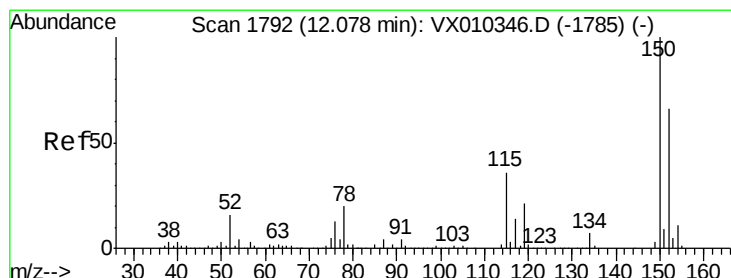
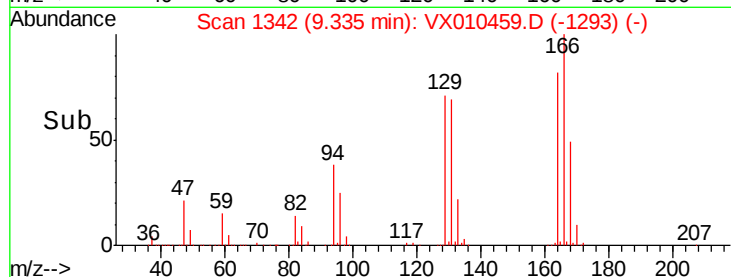
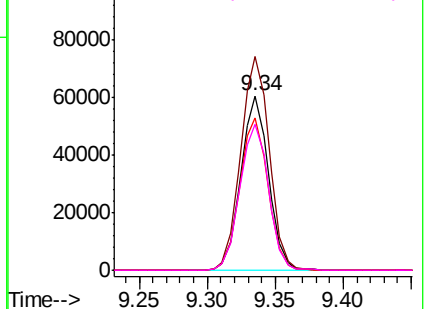
166 122.6 103.6 155.4

129 87.2 73.0 109.4

131 84.1 71.0 106.4



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: VX010459.D

Acq: 26 Jun 2019 13:49

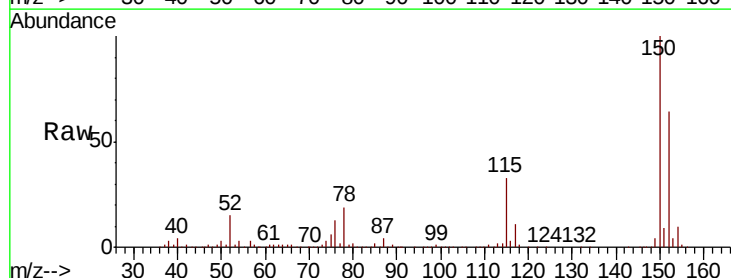
Tgt Ion:152 Resp: 164715

Ion Ratio Lower Upper

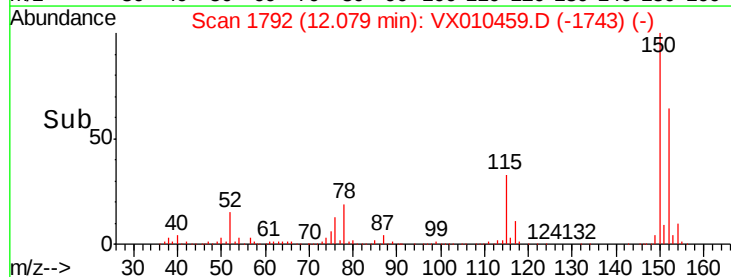
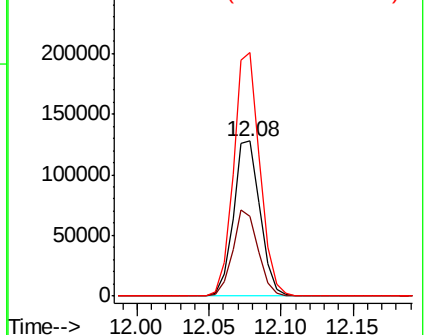
152 100

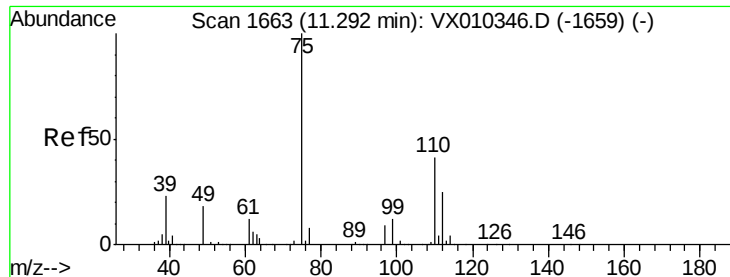
115 53.5 38.6 115.7

150 155.0 0.0 347.4



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

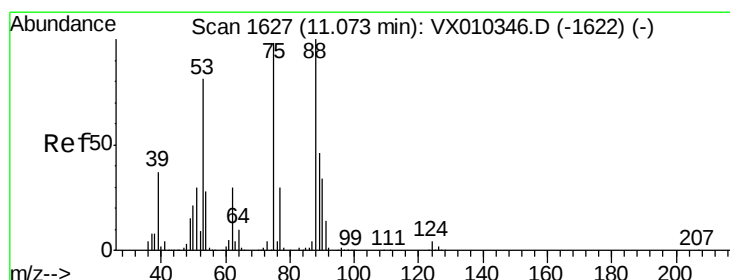
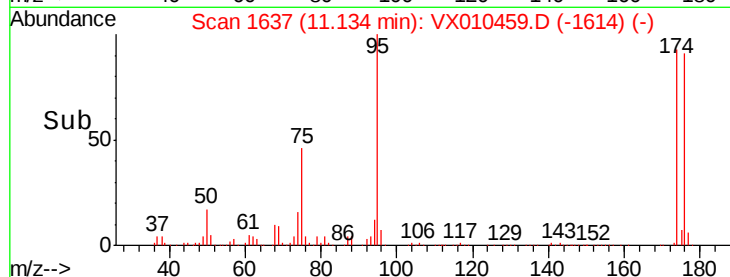
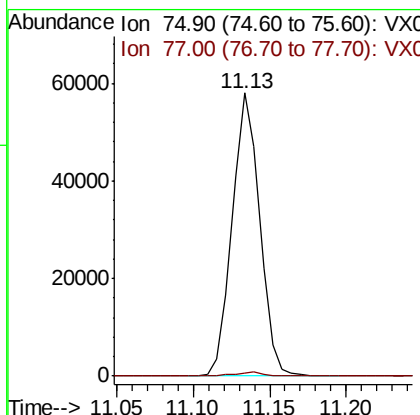
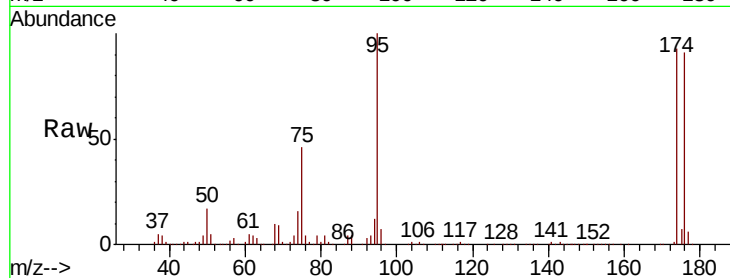




#76
 1,2,3-Trichloropropane
 Concen: 24.182 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 72582
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.413 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010459.D
 Acq: 26 Jun 2019 13:49

Tgt Ion: 75 Resp: 72582
 Ion Ratio Lower Upper
 75 100
 53 0.2 66.1 99.1#
 89 0.0 37.8 56.6#

