

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041919\
 Data File : VX009068.D
 Acq On : 19 Apr 2019 14:20
 Operator : JC/SP
 Sample : K2449-16DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0512-190416DL

Quant Time: Apr 20 00:38:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	238784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	386201	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	332013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138924	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	162591	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
35) Dibromofluoromethane	5.50	113	116673	47.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.14%	
50) Toluene-d8	8.71	98	476975	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
62) 4-Bromofluorobenzene	11.13	95	157427	45.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.24%	

Target Compounds

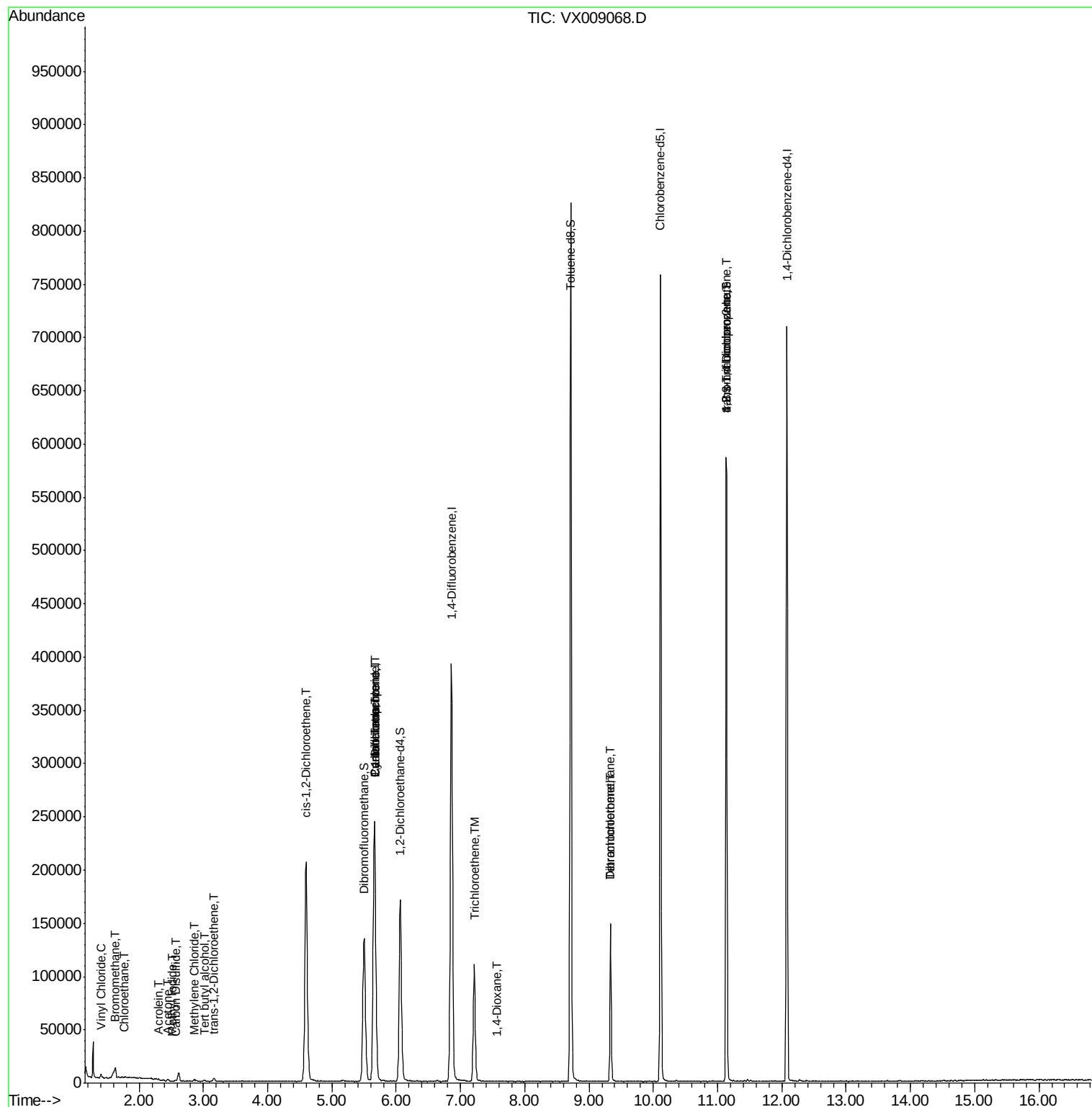
						Qvalue
4) Vinyl Chloride	1.41	62	2178	0.663	ug/l	93
5) Bromomethane	1.64	94	751	4.185	ug/l	94
6) Chloroethane	1.77	64	2943	1.523	ug/l #	44
10) Methyl Iodide	2.51	142	287	4.512	ug/l #	56
11) Tert butyl alcohol	3.01	59	748	1.001	ug/l #	91
13) Acrolein	2.29	56	229	0.355	ug/l	86
16) Acetone	2.45	43	1328	0.761	ug/l	100
17) Carbon Disulfide	2.56	76	795	1.356	ug/l #	75
20) Methylene Chloride	2.86	84	845	0.283	ug/l #	71
21) trans-1,2-Dichloroethene	3.16	96	860	0.315	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	126632	40.836	ug/l	91
28) Bromochloromethane	5.04	49	138	Below Cal	#	21
31) Cyclohexane	5.67	56	5469	1.020	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18906	4.733	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23126	6.830	ug/l #	17
44) Trichloroethene	7.21	130	42093	14.580	ug/l	100
49) 1,4-Dioxane	7.56	88	20	0.261	ug/l #	19
60) Dibromochloromethane	9.34	129	26253	9.787	ug/l #	10
64) Tetrachloroethene	9.34	164	27821	11.030	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	80836	23.830	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	80836	61.177	ug/l #	11

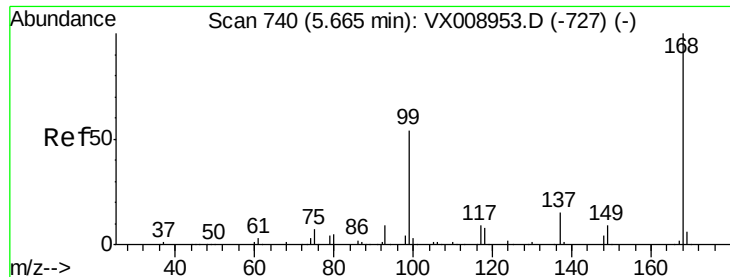
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 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: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

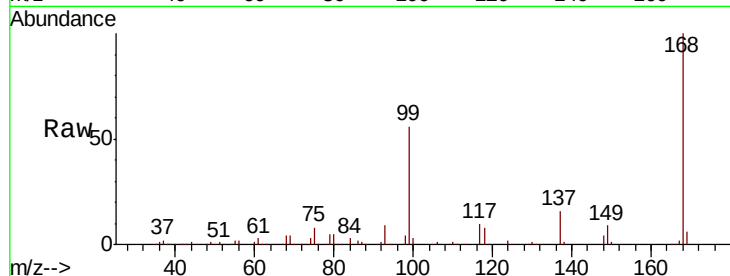
DUP-0512-190416DL

Tot Ion:168 Resp: 238784

Ion Ratio Lower Upper

168 100

99 56.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

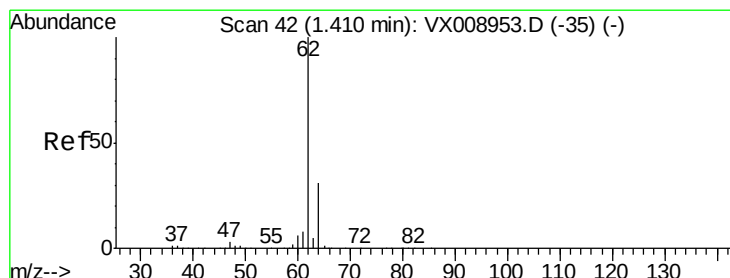
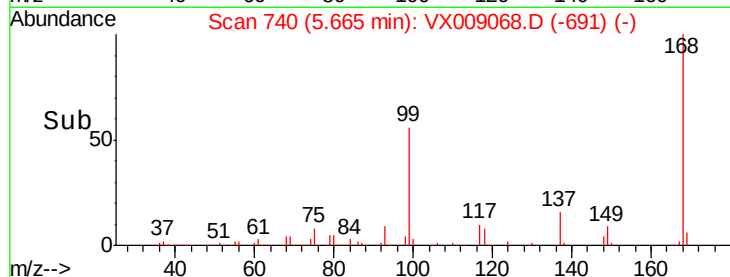
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.663 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009068.D

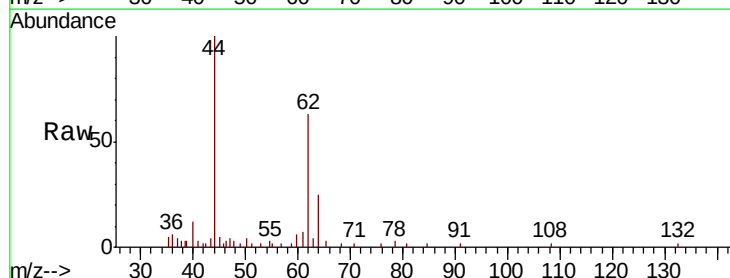
Acq: 19 Apr 2019 14:20

Tgt Ion: 62 Resp: 2178

Ion Ratio Lower Upper

62 100

64 35.1 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2000

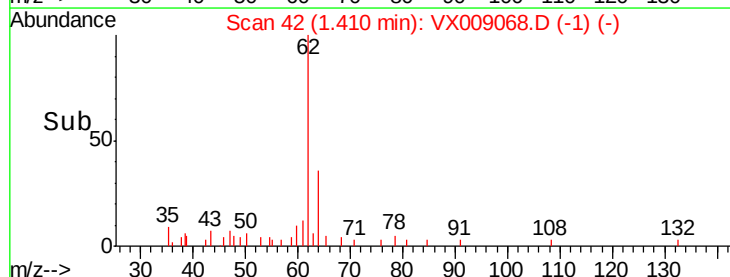
1500

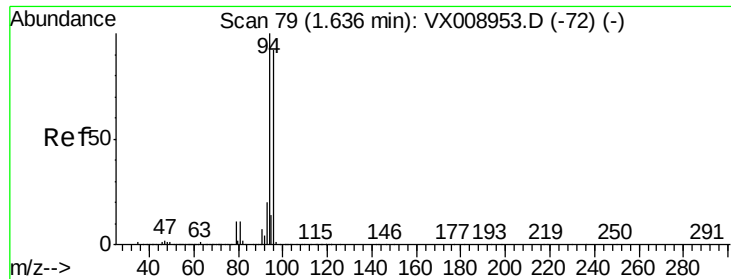
1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 4.185 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

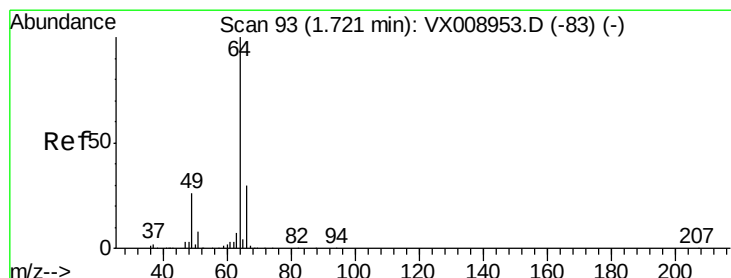
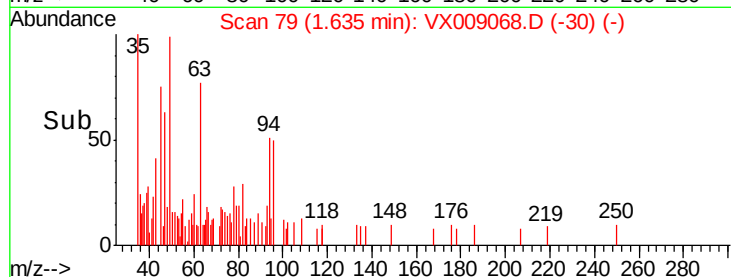
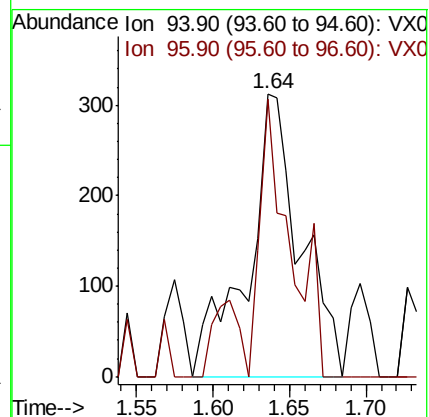
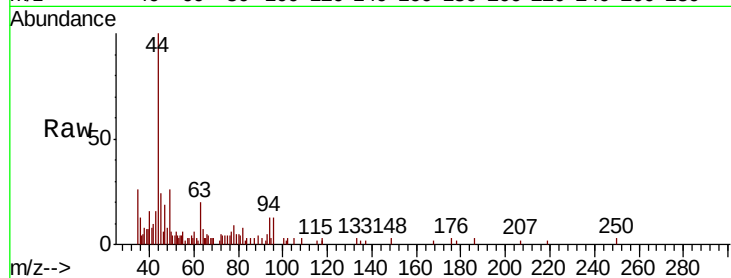
DUP-0512-190416DL

Tot Ion: 94 Resp: 751

Ion Ratio Lower Upper

94 100

96 97.8 73.9 110.9



#6

Chloroethane

Concen: 1.523 ug/l

RT: 1.77 min Scan# 101

Delta R.T. 0.05 min

Lab File: VX009068.D

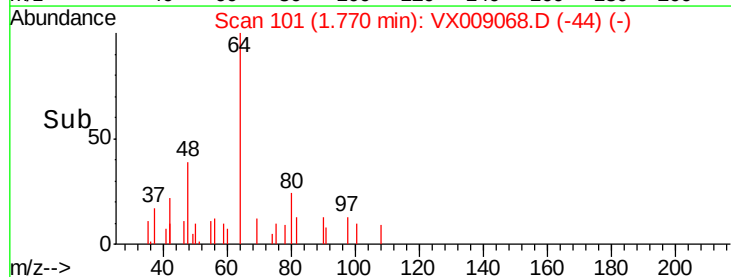
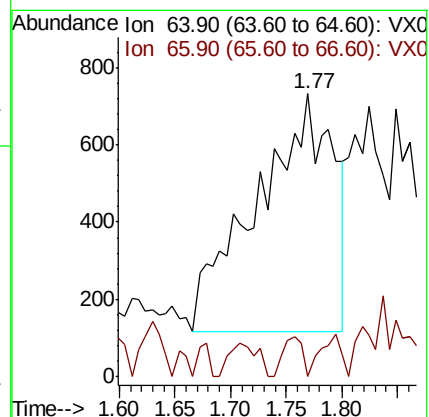
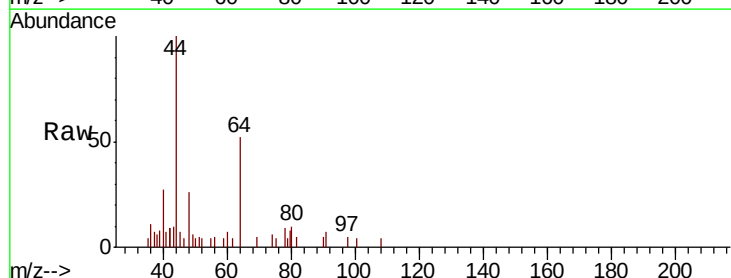
Acq: 19 Apr 2019 14:20

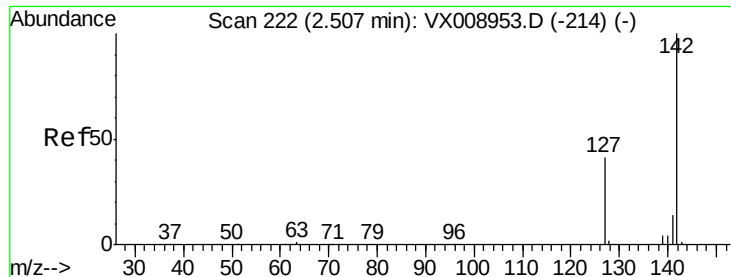
Tgt Ion: 64 Resp: 2943

Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#

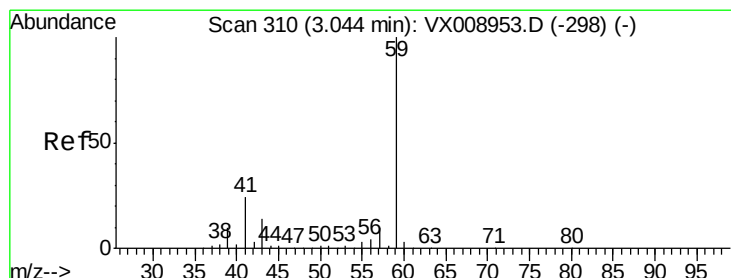
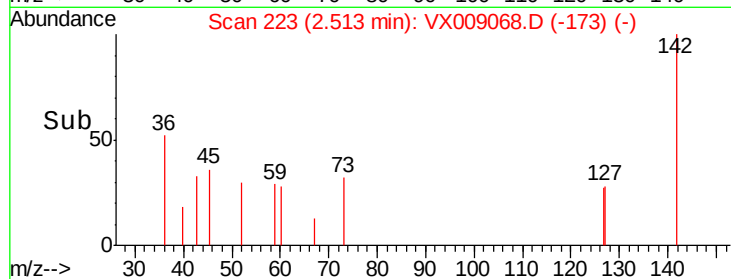
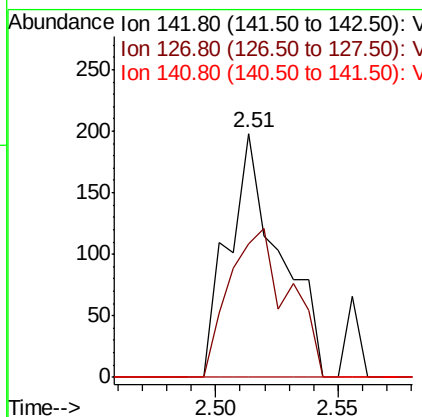
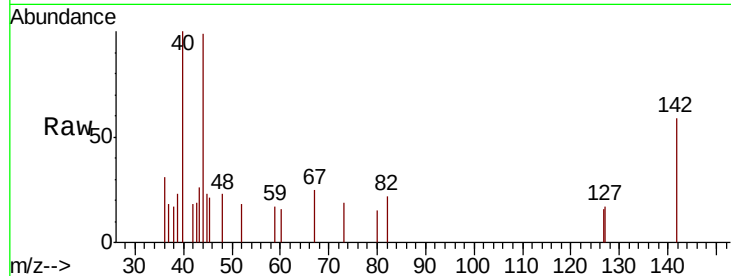




#10
Methvl Iodide
Concen: 4.512 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

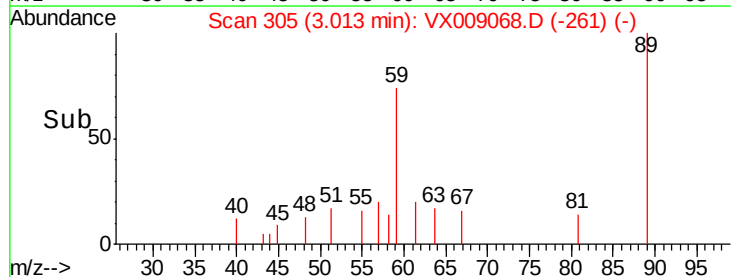
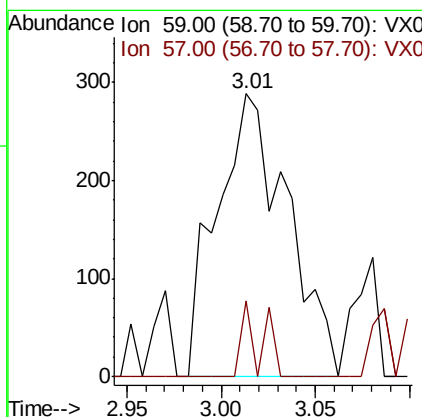
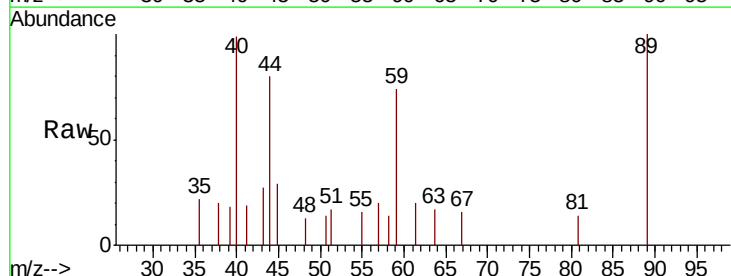
Instrument :
MSVOA_X
ClientSampleId :
DUP-0512-190416DL

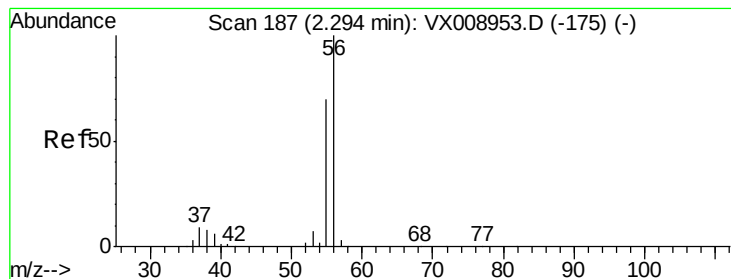
Tot Ion:142 Resp: 287
Ion Ratio Lower Upper
142 100
127 70.7 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.001 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

Tgt Ion: 59 Resp: 748
Ion Ratio Lower Upper
59 100
57 7.2 8.4 12.6#





#13

Acrolein

Concen: 0.355 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

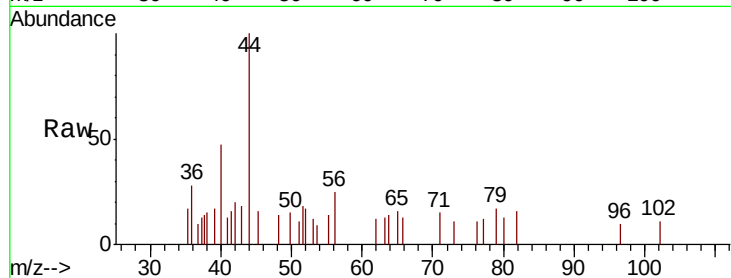
DUP-0512-190416DL

Tot Ion: 56 Resp: 229

Ion Ratio Lower Upper

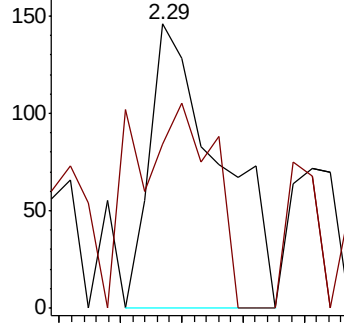
56 100

55 82.1 56.6 84.8

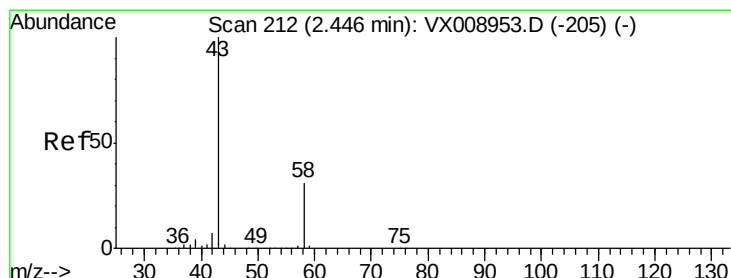
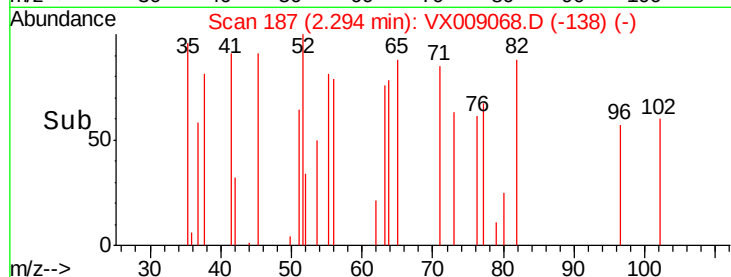


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 0.761 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009068.D

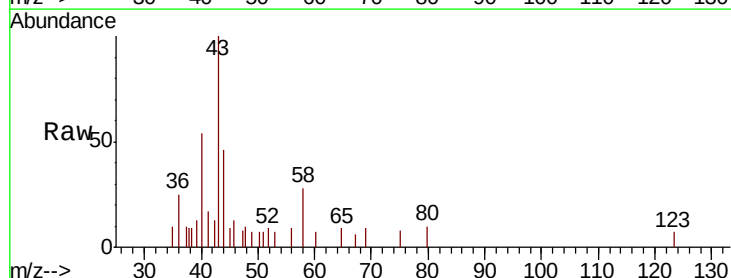
Acq: 19 Apr 2019 14:20

Tgt Ion: 43 Resp: 1328

Ion Ratio Lower Upper

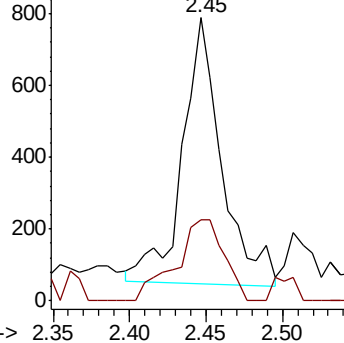
43 100

58 30.9 24.8 37.2

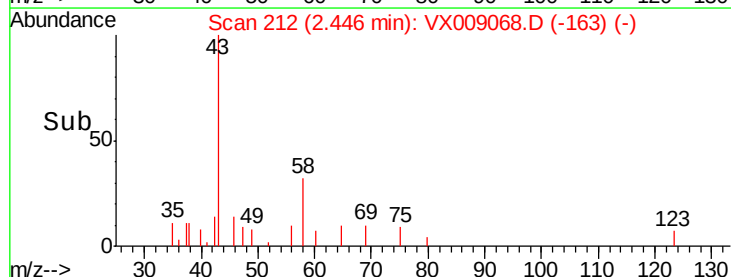


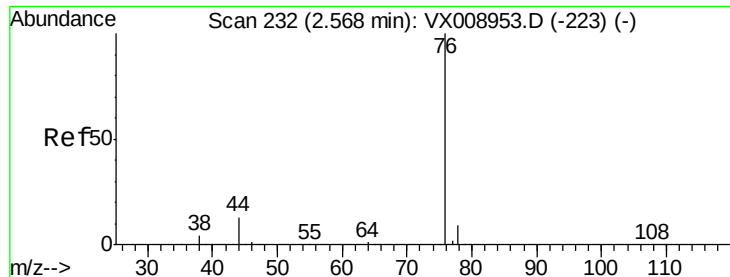
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 1.356 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

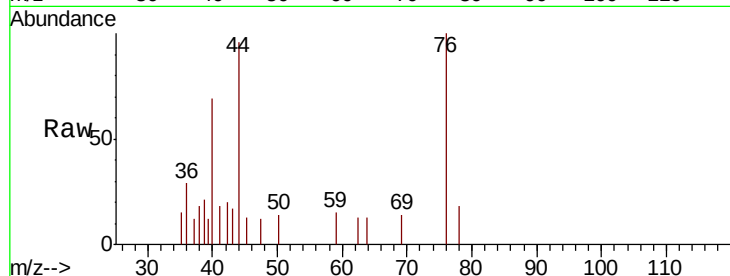
DUP-0512-190416DL

Tot Ion: 76 Resp: 795

Ion Ratio Lower Upper

76 100

78 18.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

400

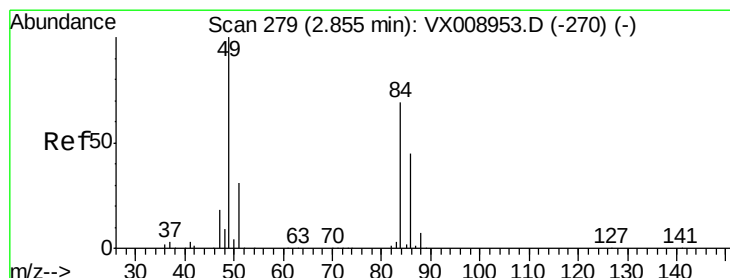
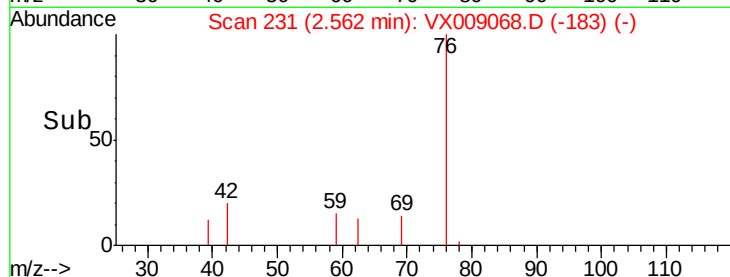
300

200

100

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: 0.283 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Tgt Ion: 84 Resp: 845

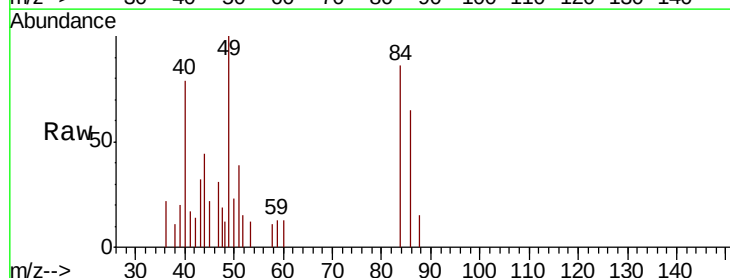
Ion Ratio Lower Upper

84 100

49 88.6 115.4 173.0#

51 45.6 35.8 53.6

86 75.4 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

800

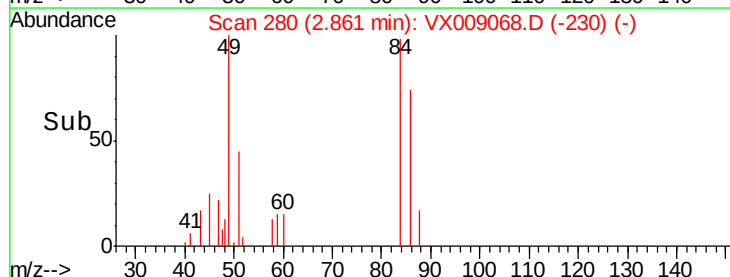
600

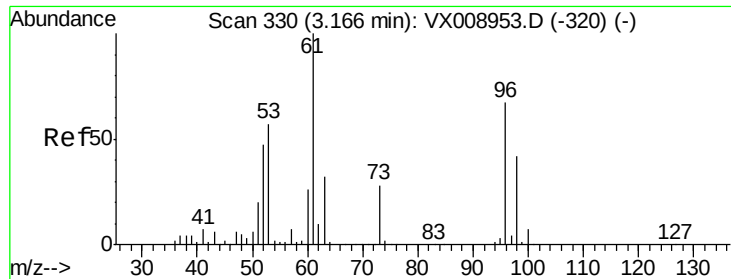
400

200

0

Time--> 2.80 2.85 2.90

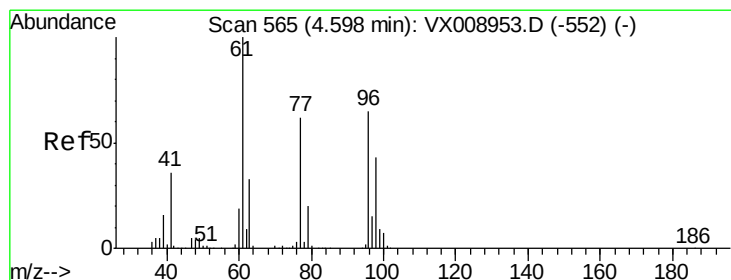
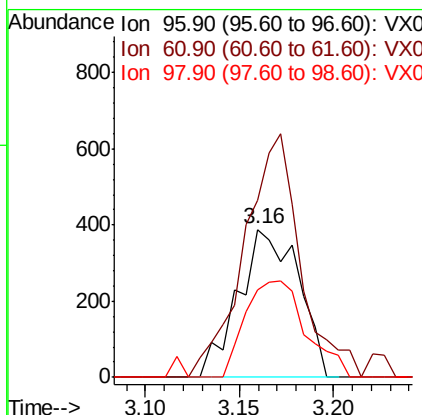
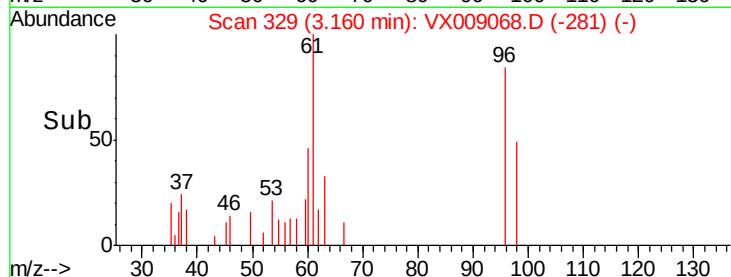
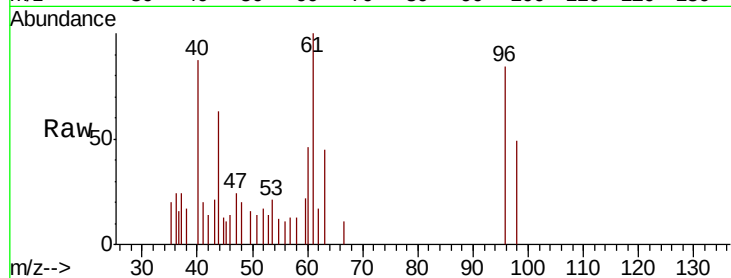




#21
trans-1,2-Dichloroethene
Concen: 0.315 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

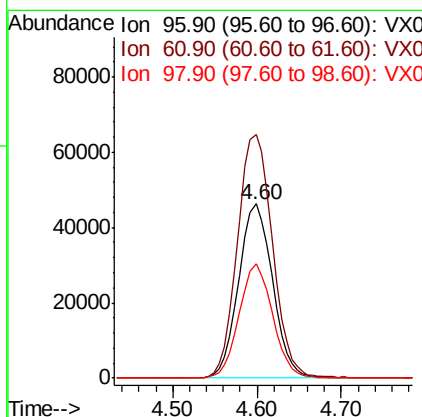
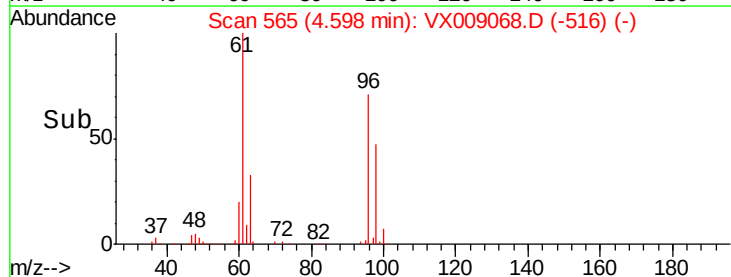
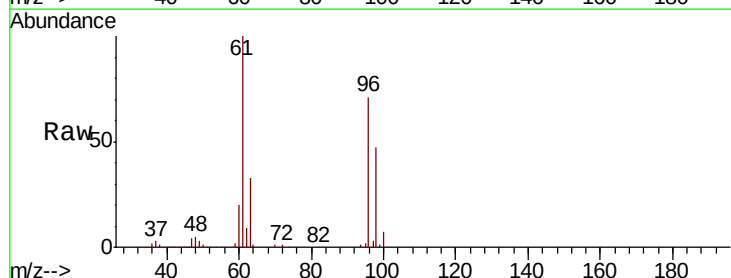
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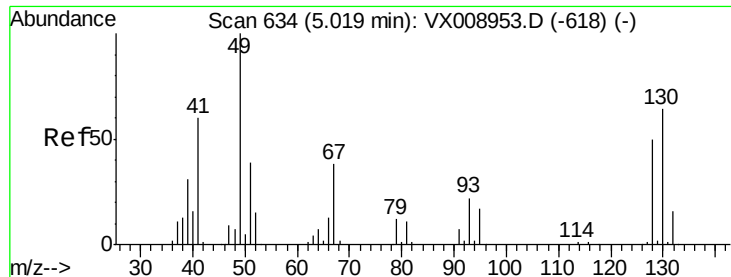
Tot Ion: 96 Resp: 860
Ion Ratio Lower Upper
96 100
61 119.6 120.3 180.5#
98 59.0 50.2 75.2



#27
cis-1,2-Dichloroethene
Concen: 40.836 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

Tgt Ion: 96 Resp: 126632
Ion Ratio Lower Upper
96 100
61 144.0 0.0 322.0
98 64.9 0.0 128.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416DL

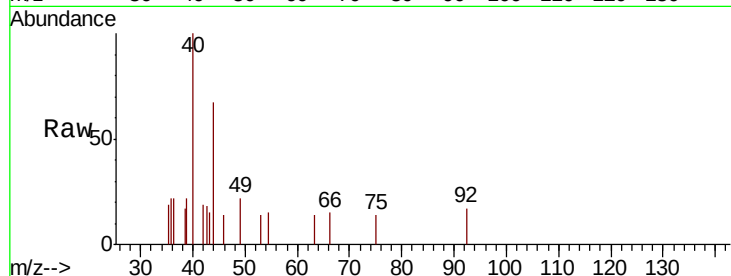
Tot Ion: 49 Resp: 138

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 50.4 75.6#

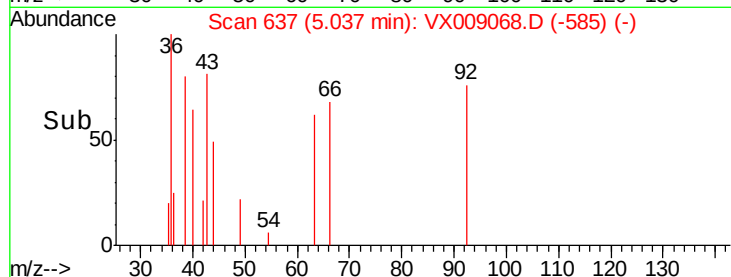


Abundance Ion 48.90 (48.60 to 49.60): VX0

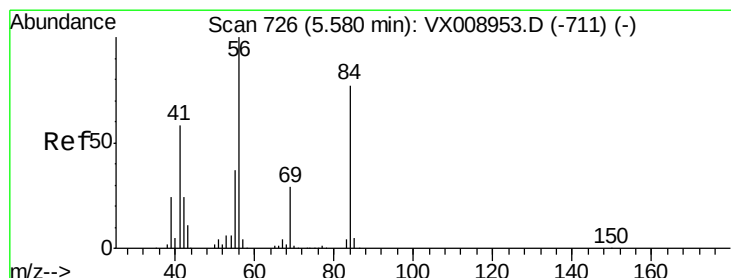
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

Time-->



Time-->



#31

Cyclohexane

Concen: 1.020 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

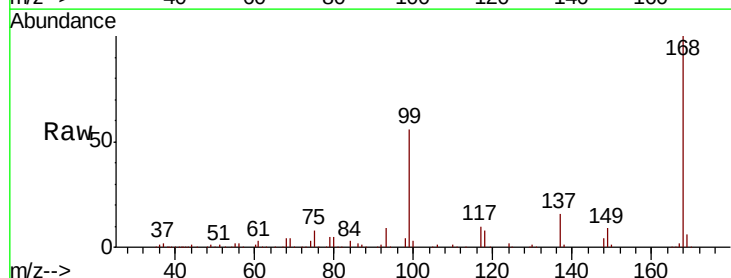
Tgt Ion: 56 Resp: 5469

Ion Ratio Lower Upper

56 100

69 165.9 23.3 34.9#

84 151.0 61.7 92.5#

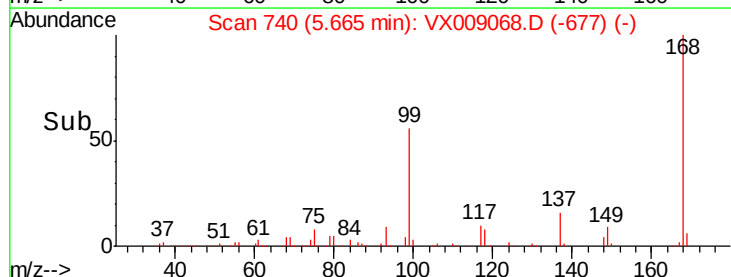


Abundance Ion 56.00 (55.70 to 56.70): VX0

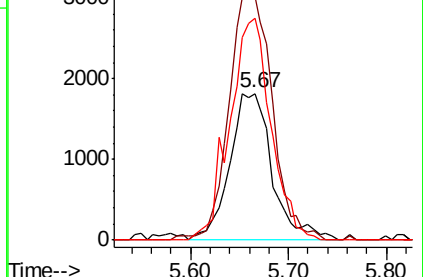
Ion 69.00 (68.70 to 69.70): VX0

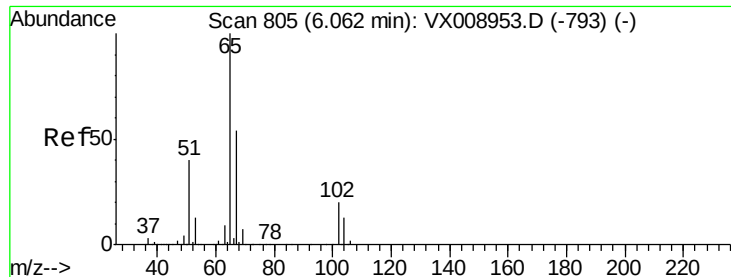
Ion 84.00 (83.70 to 84.70): VX0

Time-->



Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.316 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

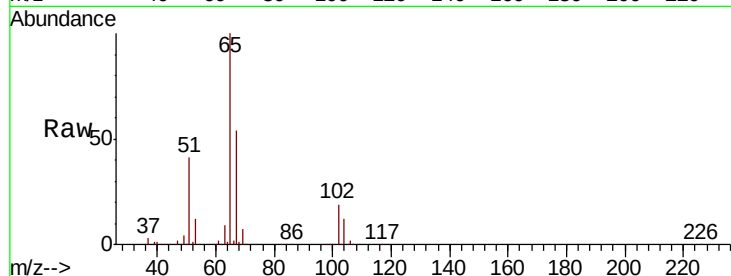
DUP-0512-190416DL

Tot Ion: 65 Resp: 162591

Ion Ratio Lower Upper

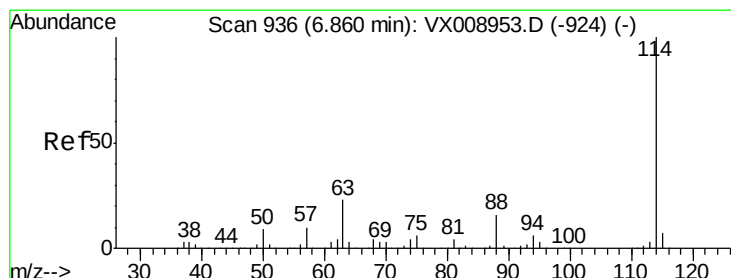
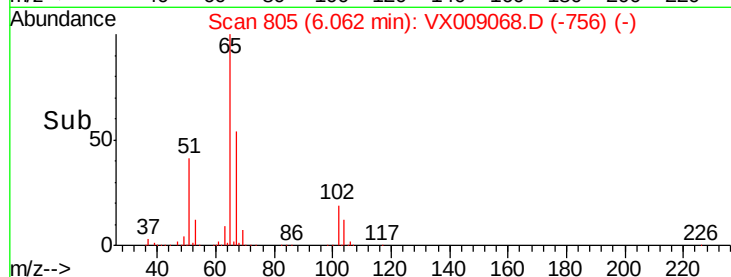
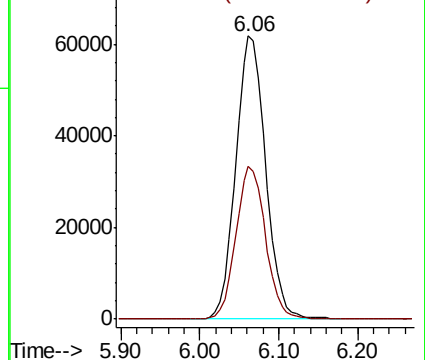
65 100

67 53.4 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

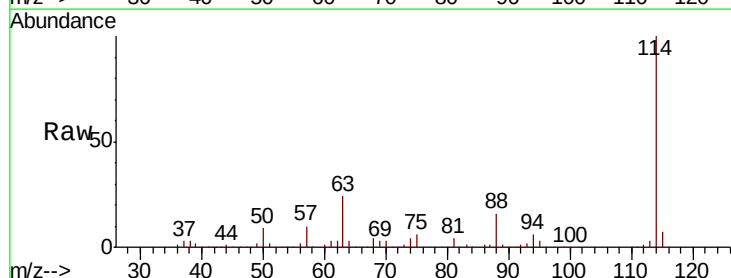
Tgt Ion: 114 Resp: 386201

Ion Ratio Lower Upper

114 100

63 23.8 0.0 46.0

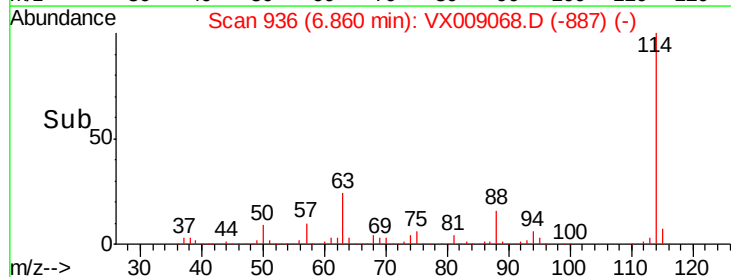
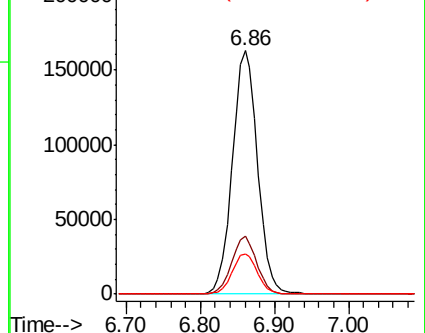
88 16.4 0.0 32.6

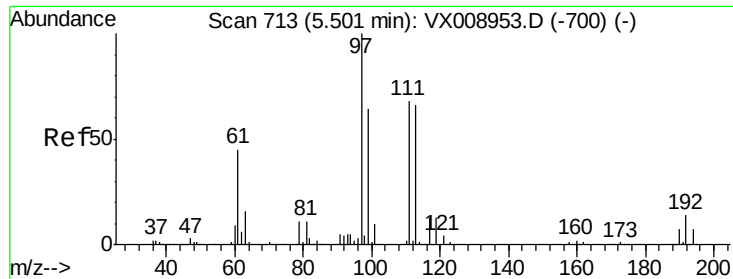


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

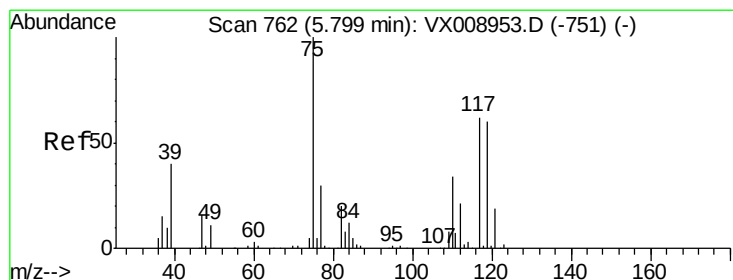
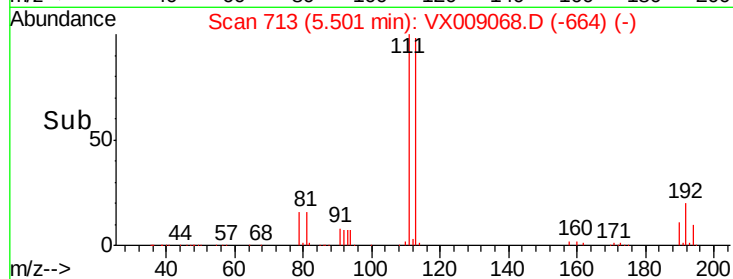
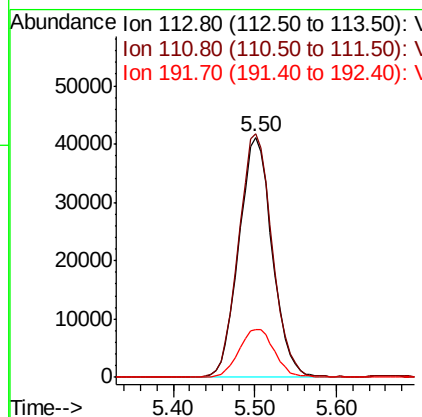
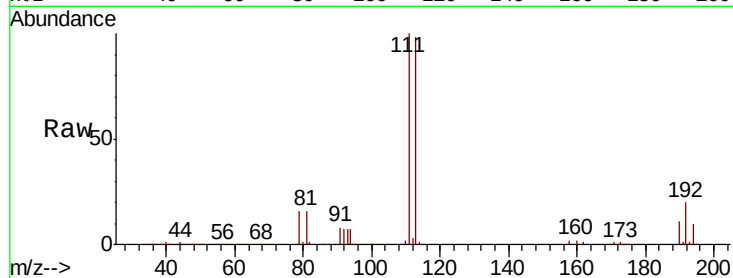




#35
 Dibromofluoromethane
 Concen: 47.073 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009068.D
 Acq: 19 Apr 2019 14:20

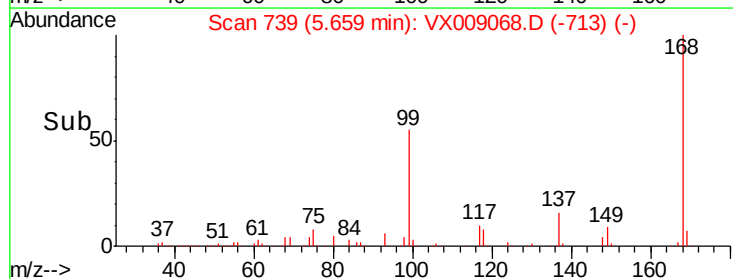
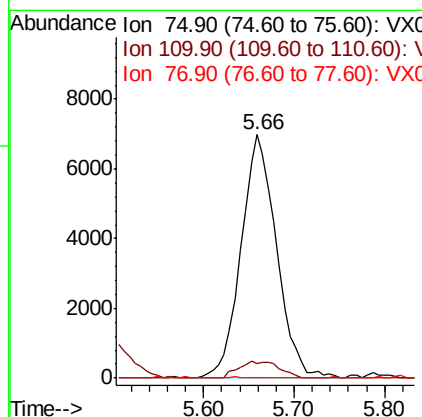
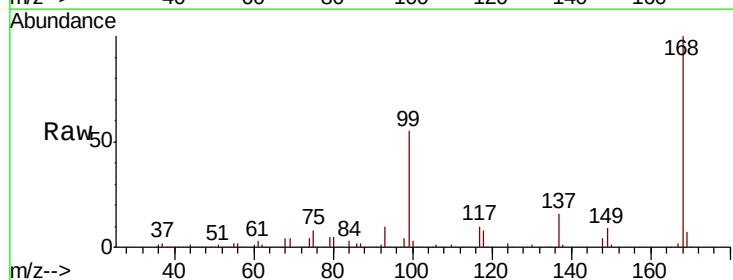
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0512-190416DL

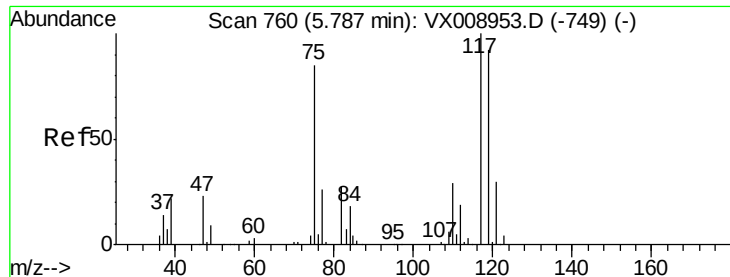
Tot Ion:113 Resp: 116673
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 21.1 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.733 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009068.D
 Acq: 19 Apr 2019 14:20

Tgt Ion: 75 Resp: 18906
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.9 50.7#
 77 0.0 25.0 37.4#

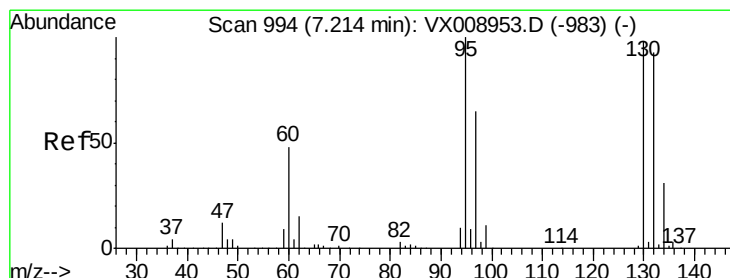
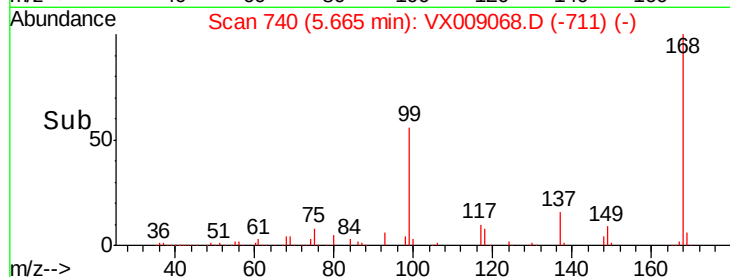
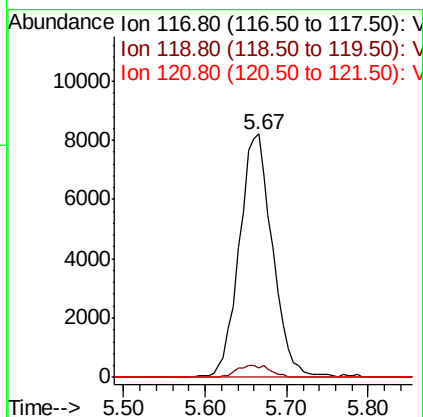
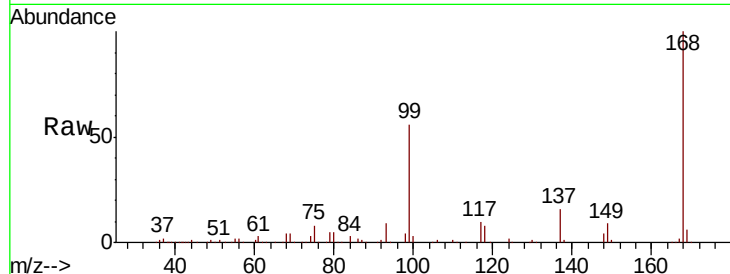




#38
Carbon Tetrachloride
Concen: 6.830 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

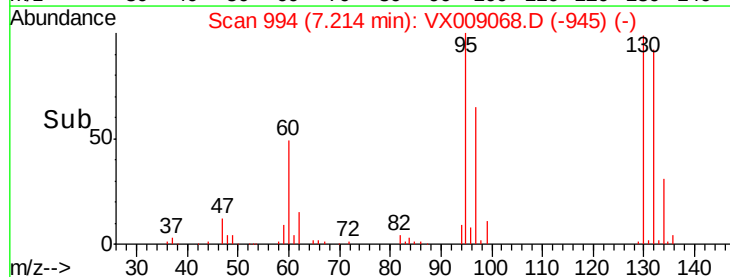
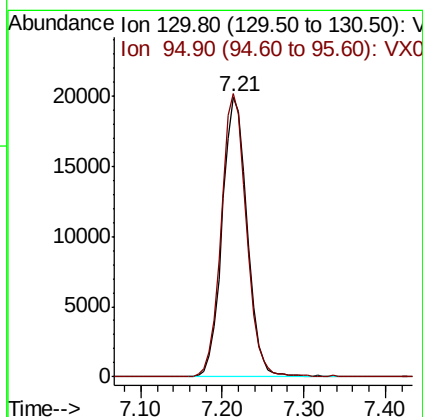
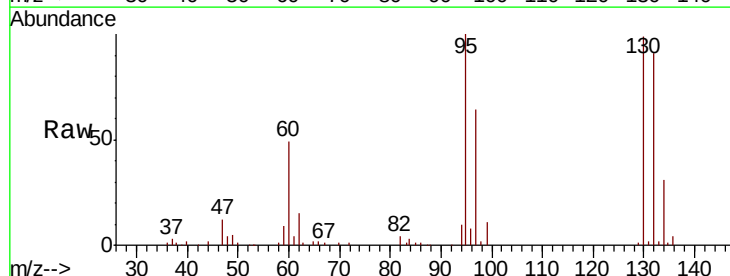
Instrument :
MSVOA_X
ClientSampleId :
DUP-0512-190416DL

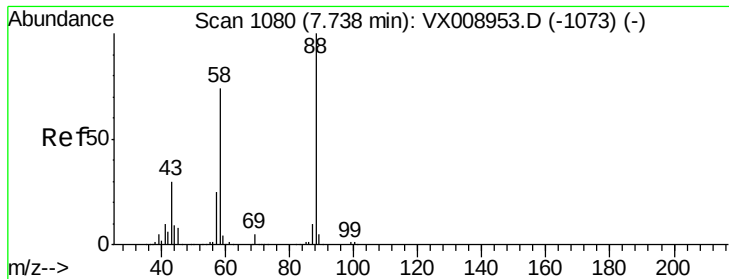
Tot Ion:117 Resp: 23126
Ion Ratio Lower Upper
117 100
119 4.1 73.8 110.8#
121 0.0 23.6 35.4#



#44
Trichloroethene
Concen: 14.580 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

Tgt Ion:130 Resp: 42093
Ion Ratio Lower Upper
130 100
95 101.2 0.0 203.2

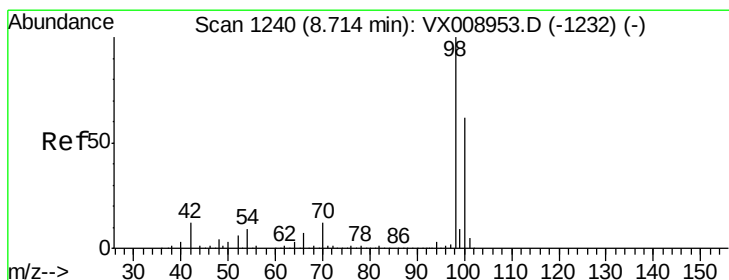
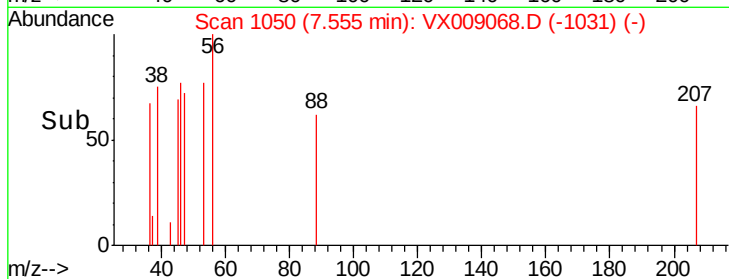
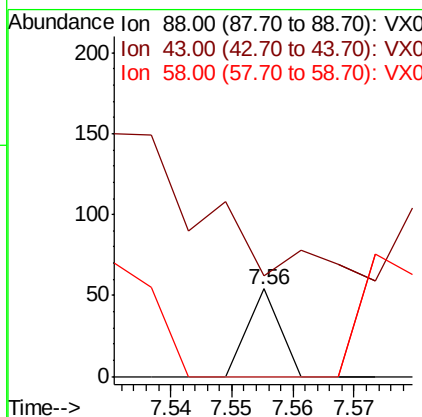
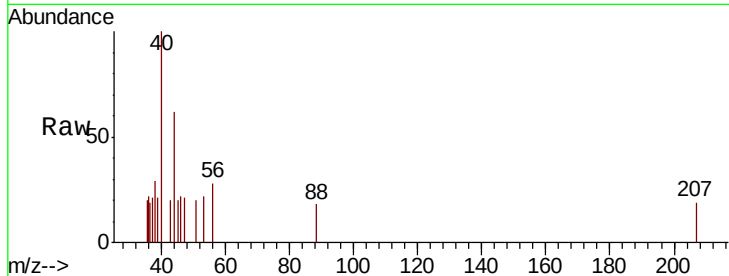




#49
1,4-Dioxane
Concen: 0.261 ug/l
RT: 7.56 min Scan# 1050
Delta R.T. -0.18 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

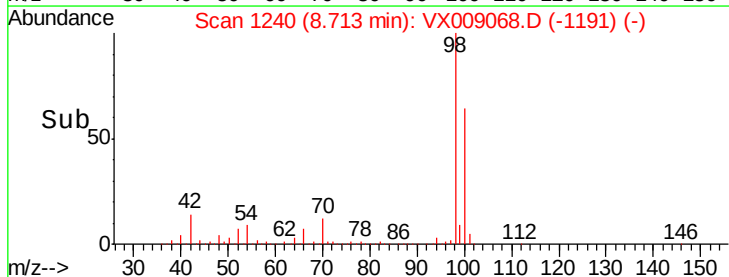
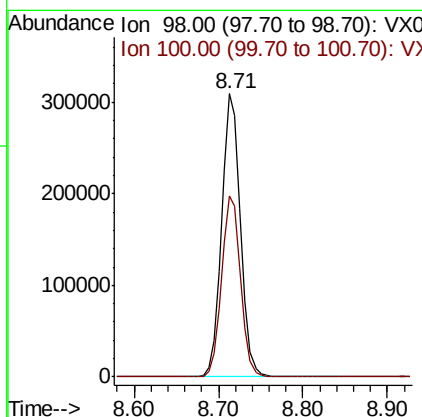
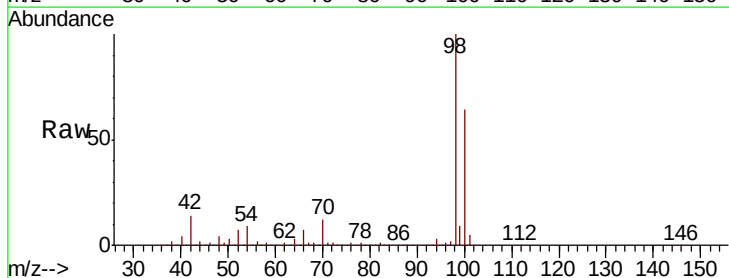
Instrument :
MSVOA_X
ClientSampleId :
DUP-0512-190416DL

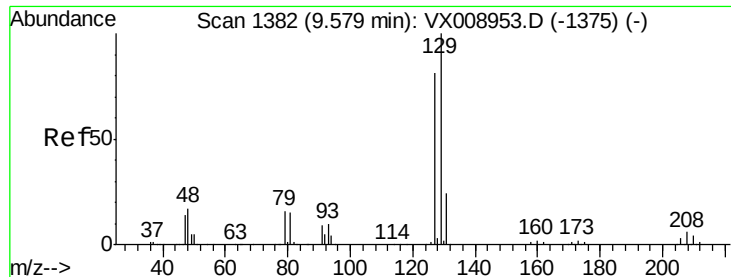
Tot Ion	88	Resp	20
Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.3	43.9#
58	0.0	62.6	93.8#



#50
Toluene-d8
Concen: 48.254 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

Tgt Ion	98	Resp	476975
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.4	77.2





#60

Dibromochloromethane

Concen: 9.787 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

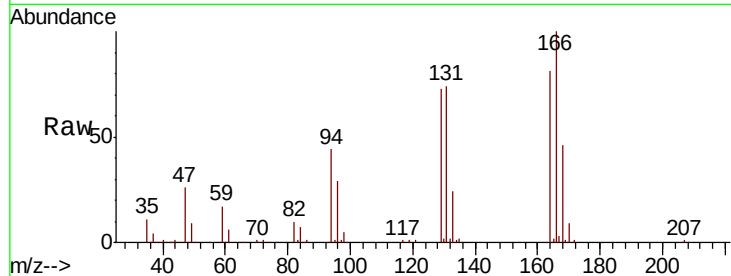
DUP-0512-190416DL

Tot Ion:129 Resp: 26253

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

20000

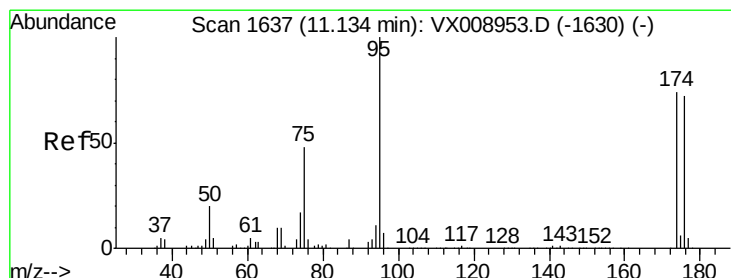
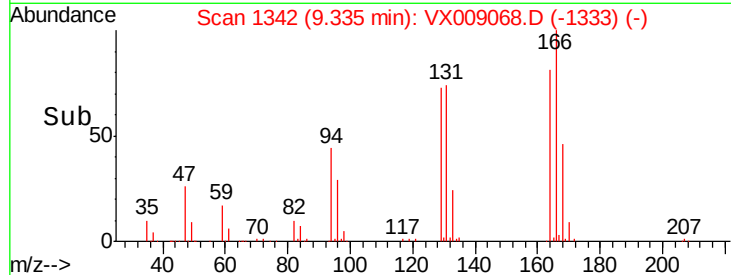
15000

10000

5000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 45.117 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

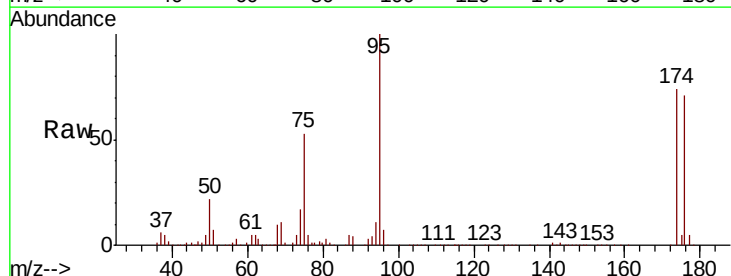
Tgt Ion: 95 Resp: 157427

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.6

176 76.7 0.0 154.8



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

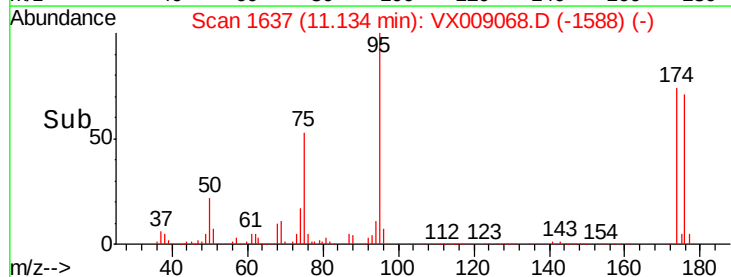
150000

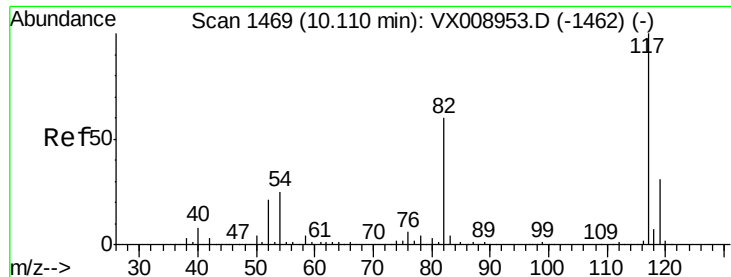
100000

50000

0

Time--> 11.10 11.20

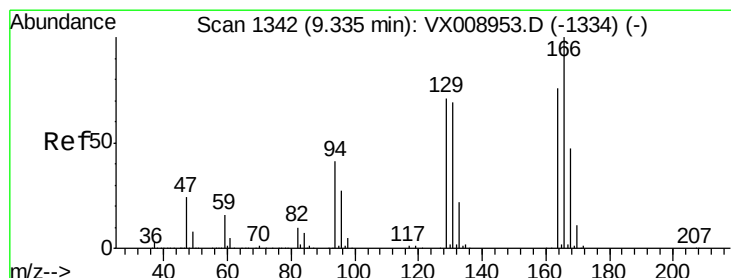
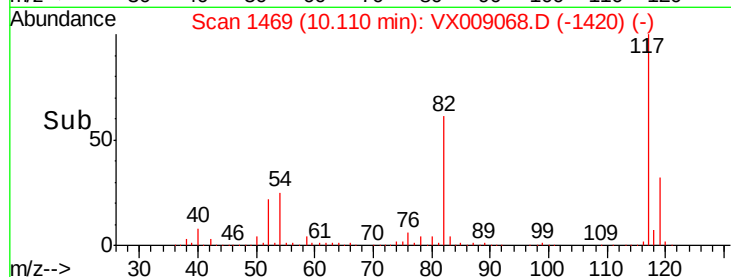
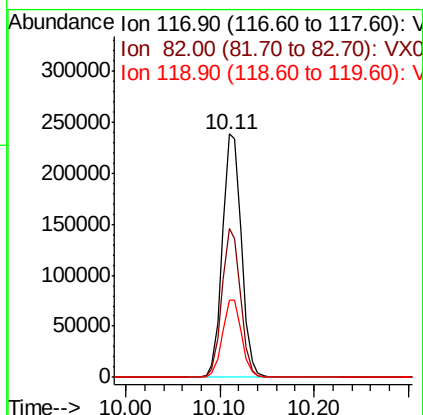
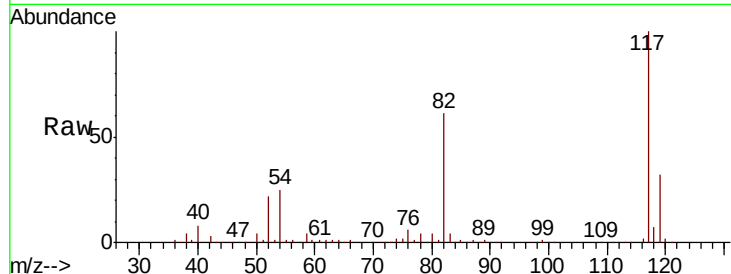




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

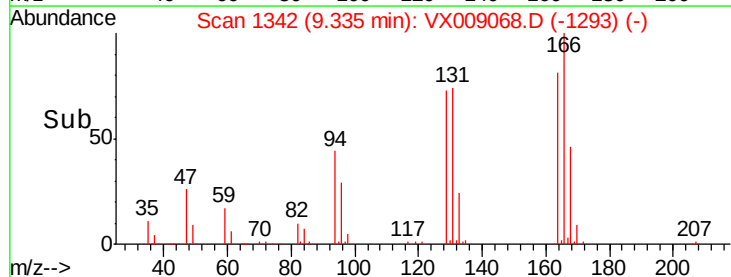
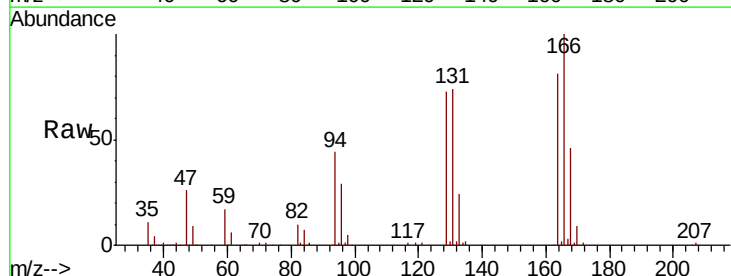
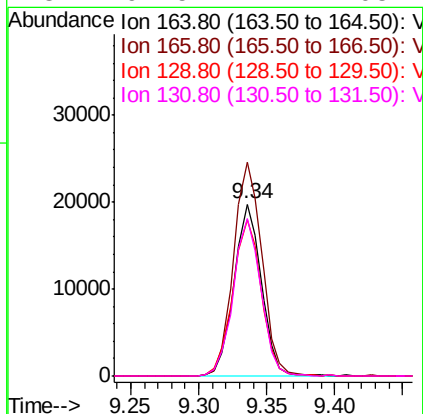
Instrument :
MSVOA_X
ClientSampleId :
DUP-0512-190416DL

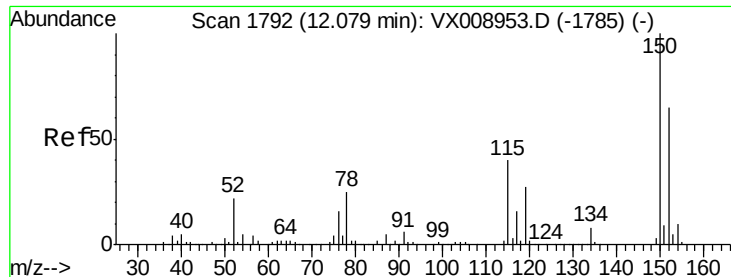
Tot Ion:117 Resp: 332013
Ion Ratio Lower Upper
117 100
82 61.2 48.2 72.4
119 31.7 25.0 37.6



#64
Tetrachloroethene
Concen: 11.030 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009068.D
Acq: 19 Apr 2019 14:20

Tgt Ion:164 Resp: 27821
Ion Ratio Lower Upper
164 100
166 124.2 105.0 157.4
129 91.2 74.2 111.4
131 91.5 72.2 108.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416DL

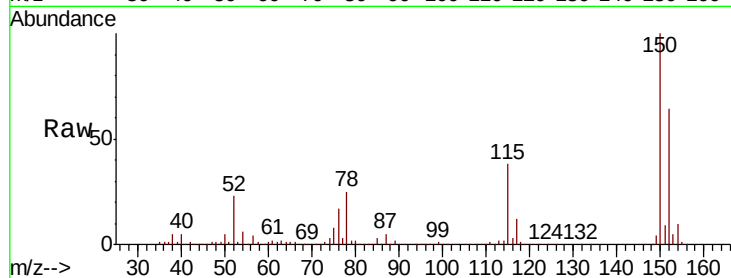
Tot Ion:152 Resp: 138924

Ion Ratio Lower Upper

152 100

115 59.9 41.4 124.2

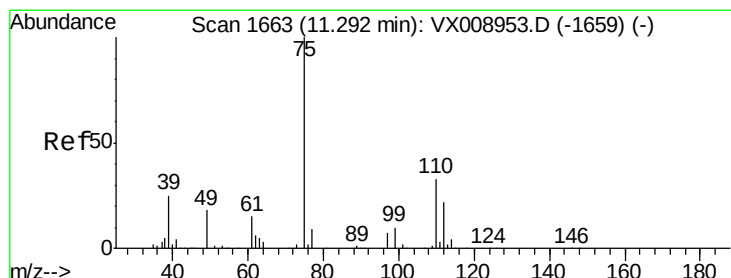
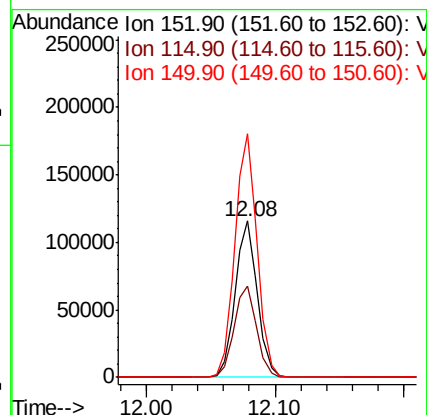
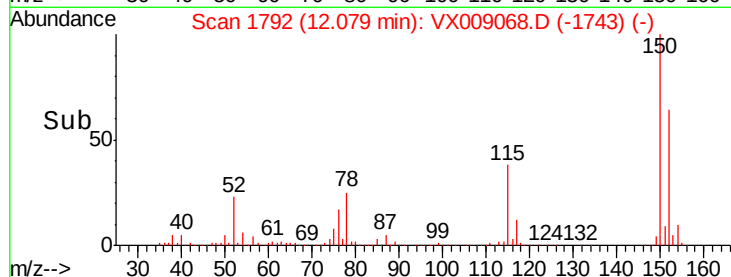
150 156.9 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.830 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009068.D

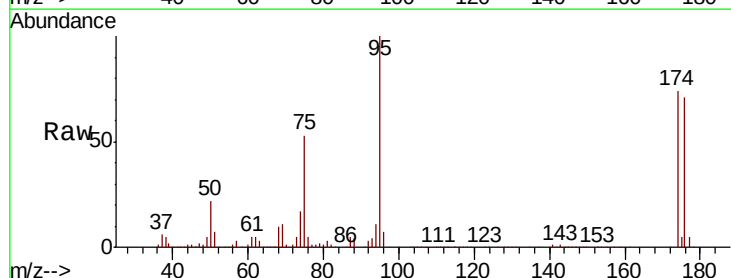
Acq: 19 Apr 2019 14:20

Tgt Ion: 75 Resp: 80836

Ion Ratio Lower Upper

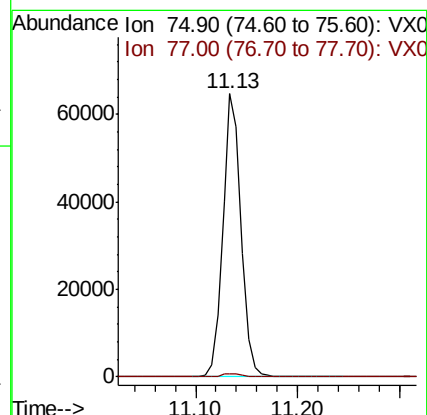
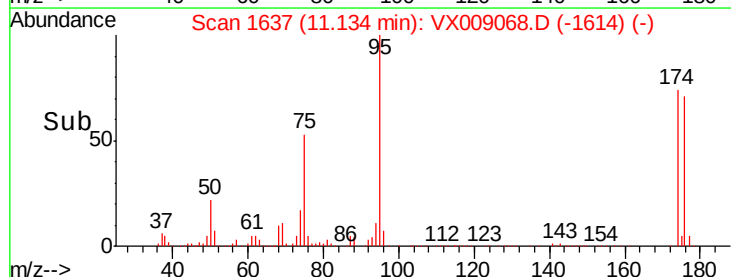
75 100

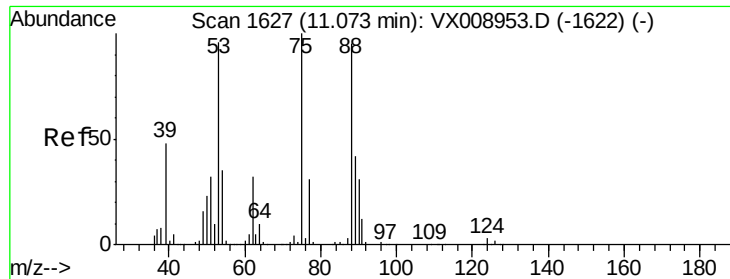
77 1.3 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.177 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009068.D

Acq: 19 Apr 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416DL

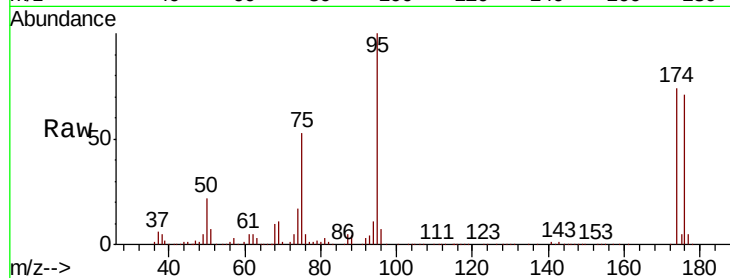
Tot Ion: 75 Resp: 80836

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

