

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009028.D
 Acq On : 17 Apr 2019 20:27
 Operator : JC/SP
 Sample : K2449-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0510-190415

Quant Time: Apr 18 01:40:21 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	250000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	399771	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	347806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	148496	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	163080	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
35) Dibromofluoromethane	5.50	113	119368	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	
50) Toluene-d8	8.71	98	498996	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
62) 4-Bromofluorobenzene	11.13	95	165240	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

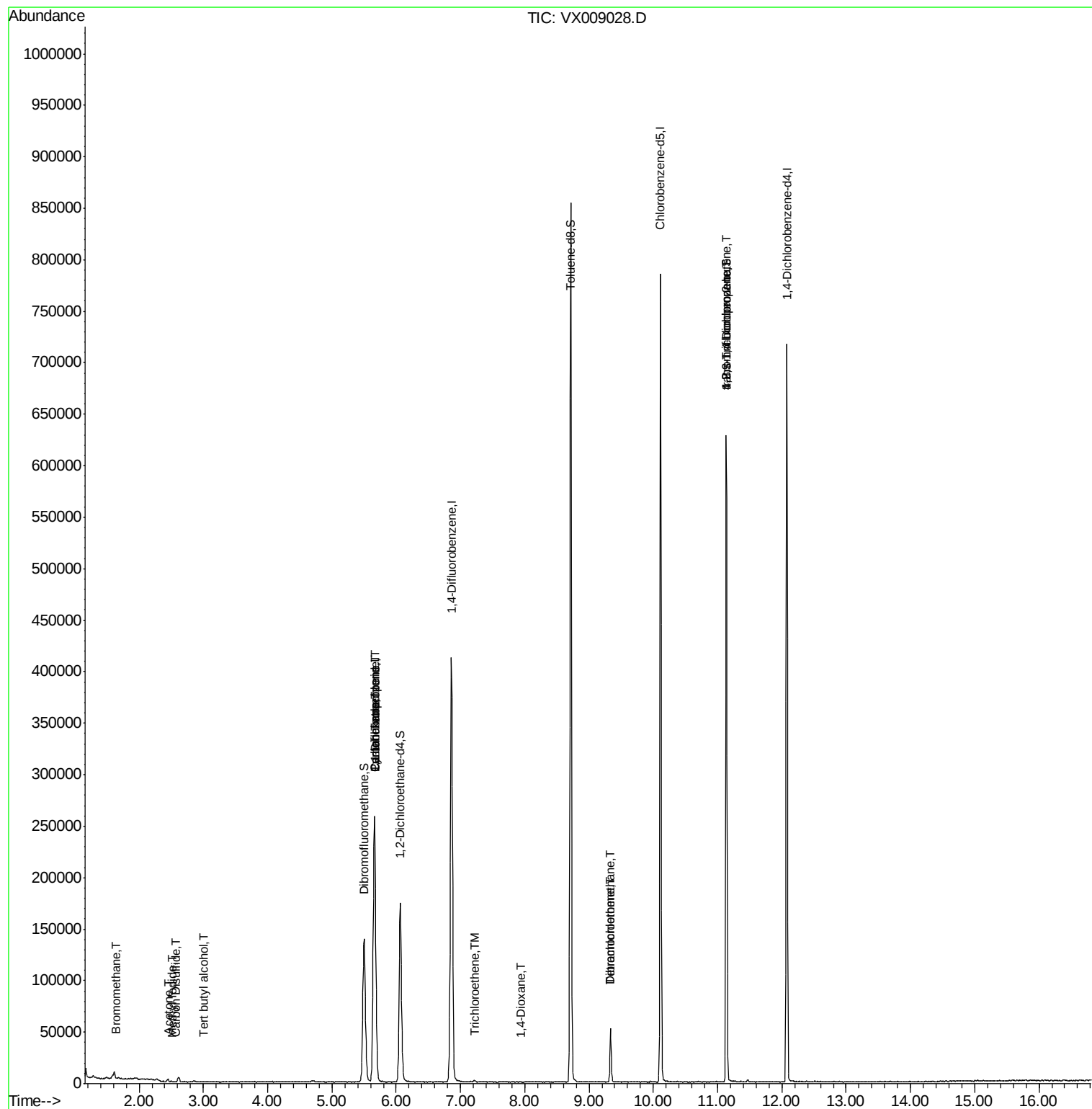
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	146	3.911	ug/l #	80
10) Methyl Iodide	2.52	142	68	4.437	ug/l #	42
11) Tert butyl alcohol	3.01	59	218	0.279	ug/l	98
16) Acetone	2.45	43	2512	1.375	ug/l	97
17) Carbon Disulfide	2.57	76	388	1.301	ug/l #	75
28) Bromochloromethane	5.02	49	20	Below Cal	#	21
31) Cyclohexane	5.67	56	5491	0.979	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19805	4.790	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23950	6.833	ug/l #	17
44) Trichloroethene	7.21	130	617	0.206	ug/l	80
49) 1,4-Dioxane	7.93	88	19	0.240	ug/l #	19
60) Dibromochloromethane	9.34	129	9330	3.360	ug/l #	11
64) Tetrachloroethene	9.34	164	9847	3.727	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	84620	23.337	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	84620	59.913	ug/l #	11

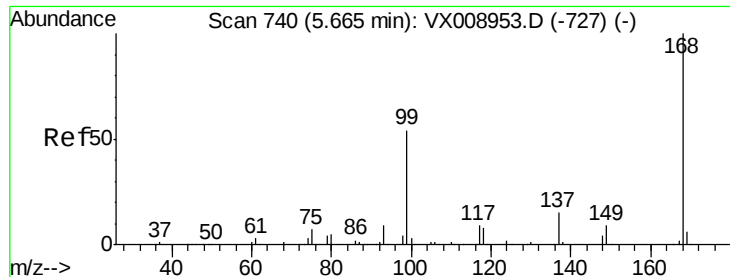
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

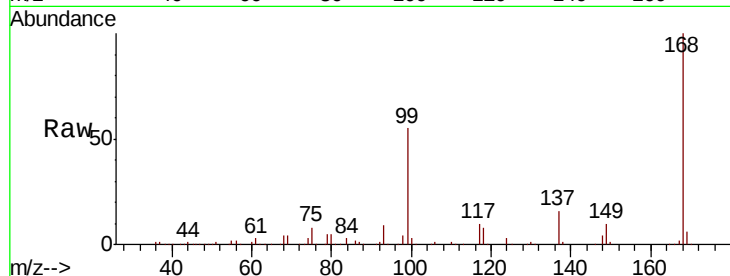
DUP-0510-190415

Tot Ion:168 Resp: 250000

Ion Ratio Lower Upper

168 100

99 54.7 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

100000

80000

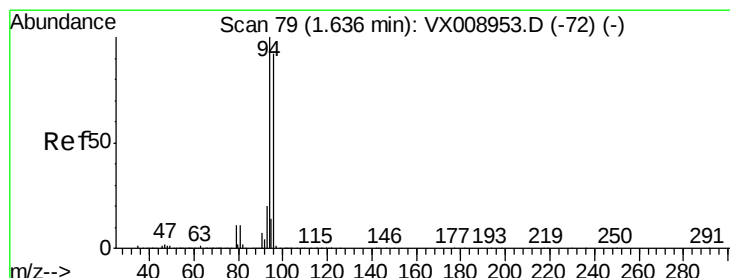
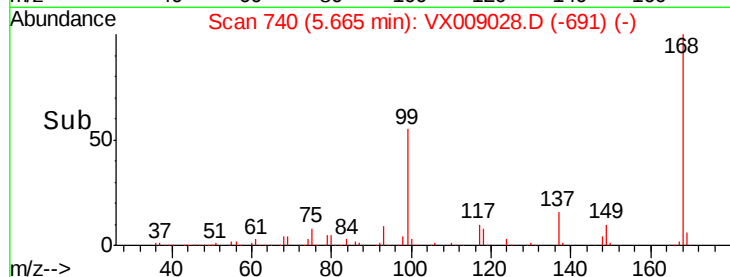
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 3.911 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009028.D

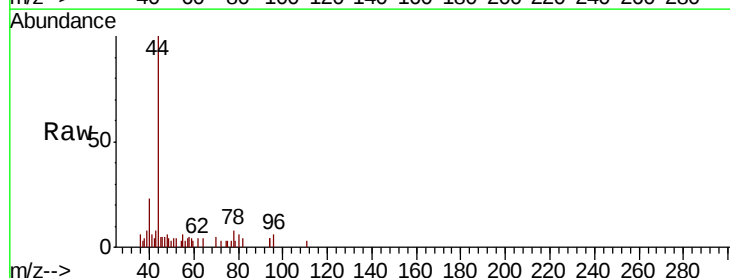
Acq: 17 Apr 2019 20:27

Tgt Ion: 94 Resp: 146

Ion Ratio Lower Upper

94 100

96 73.2 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

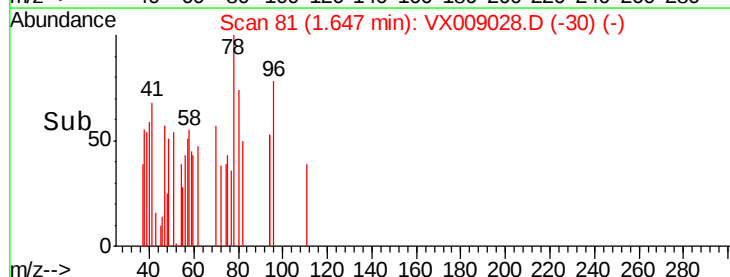
150

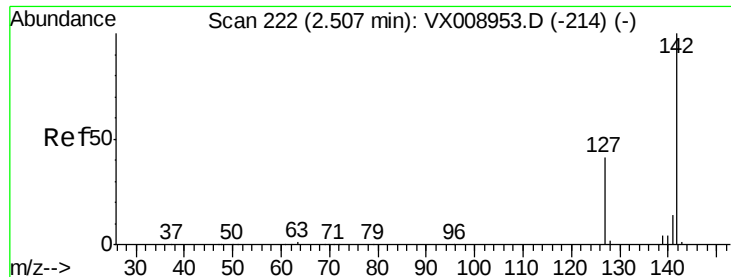
100

50

0

Time--> 1.62 1.64 1.66

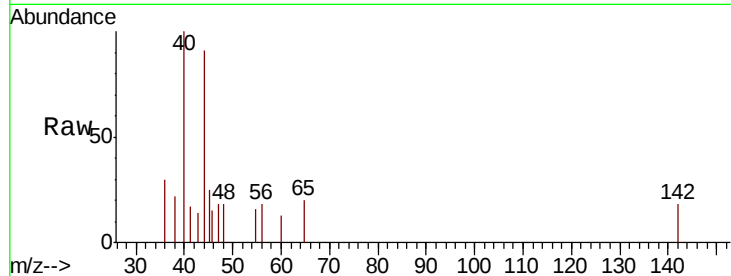




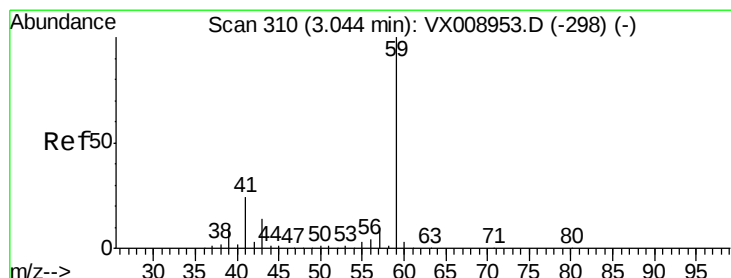
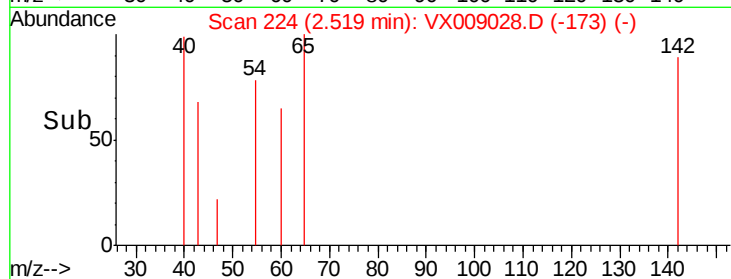
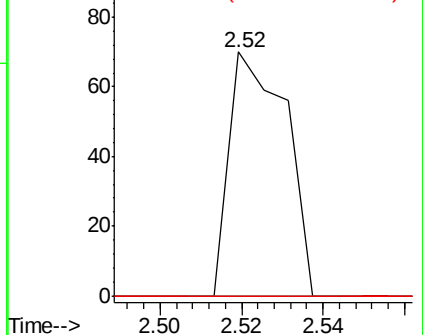
#10
Methyl Iodide
Concen: 4.437 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009028.D
Acq: 17 Apr 2019 20:27

Instrument :
MSVOA_X
ClientSampleId :
DUP-0510-190415

Tot Ion:142 Resp: 68
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#

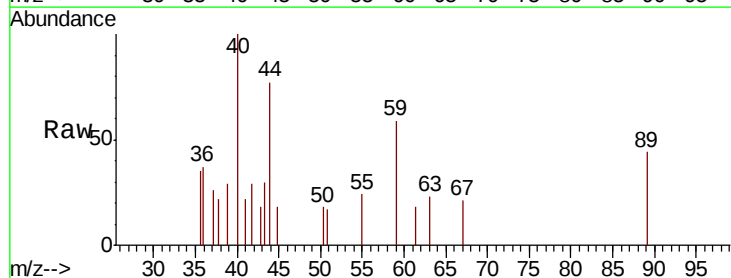


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

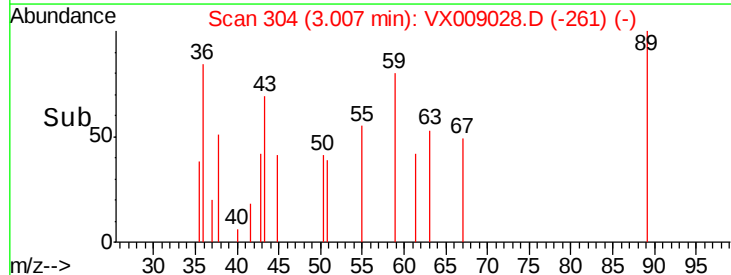
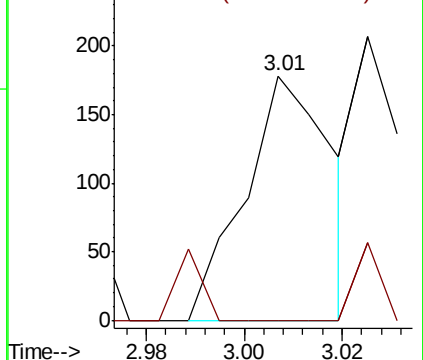


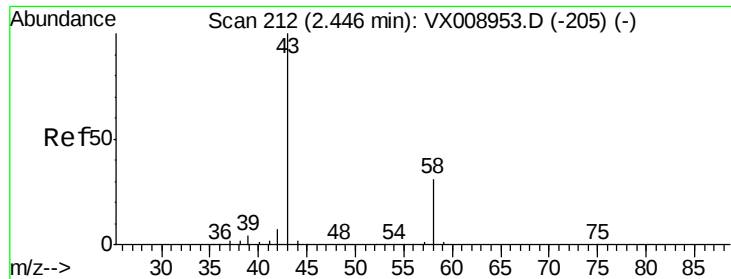
#11
Tert butyl alcohol
Concen: 0.279 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.04 min
Lab File: VX009028.D
Acq: 17 Apr 2019 20:27

Tgt Ion: 59 Resp: 218
Ion Ratio Lower Upper
59 100
57 9.6 8.4 12.6



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





#16

Acetone

Concen: 1.375 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

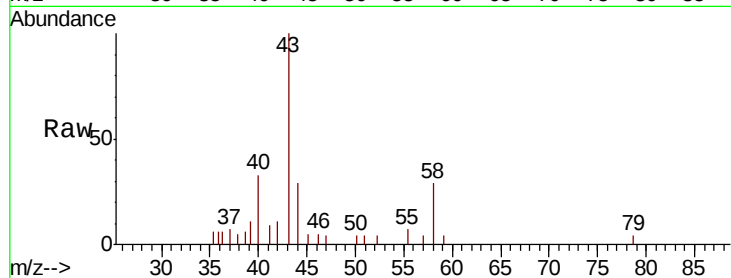
DUP-0510-190415

Tot Ion: 43 Resp: 2512

Ion Ratio Lower Upper

43 100

58 29.3 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

1500

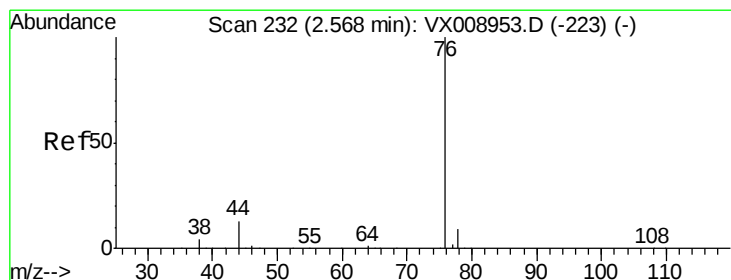
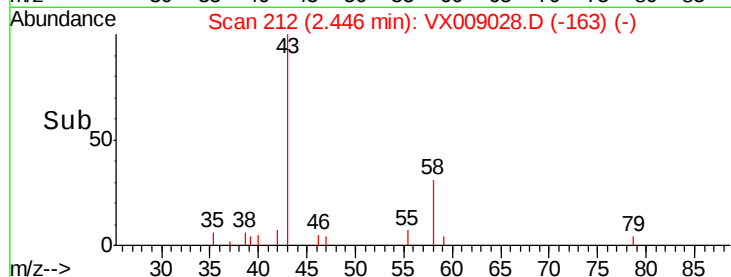
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 1.301 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009028.D

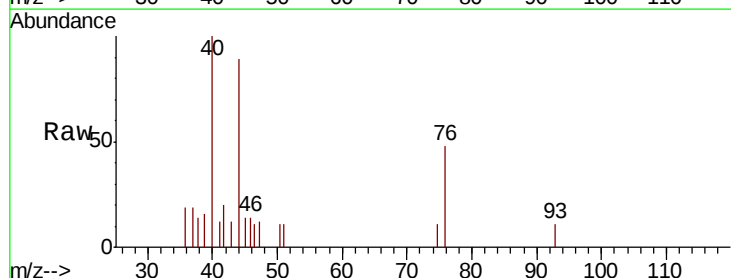
Acq: 17 Apr 2019 20:27

Tgt Ion: 76 Resp: 388

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

250

200

150

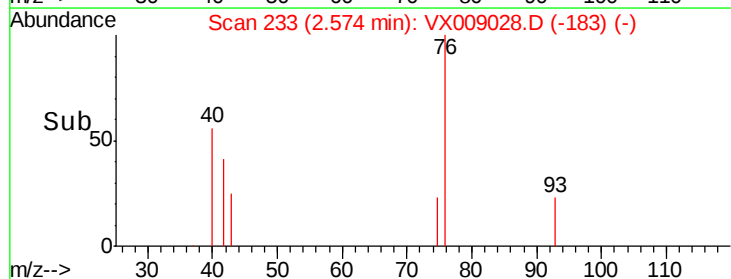
100

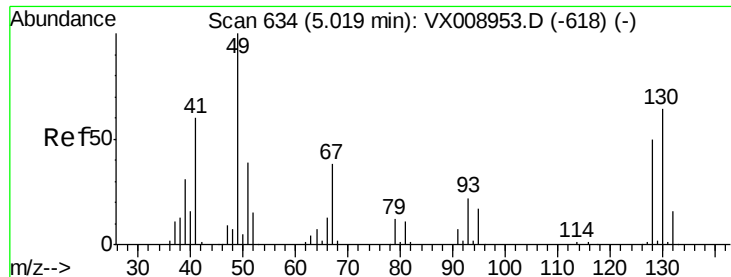
50

0

2.55 2.60

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0510-190415

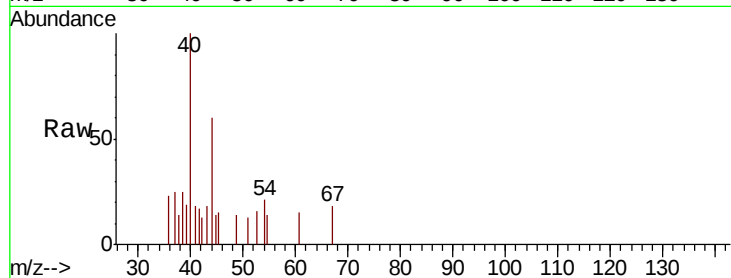
Tot Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

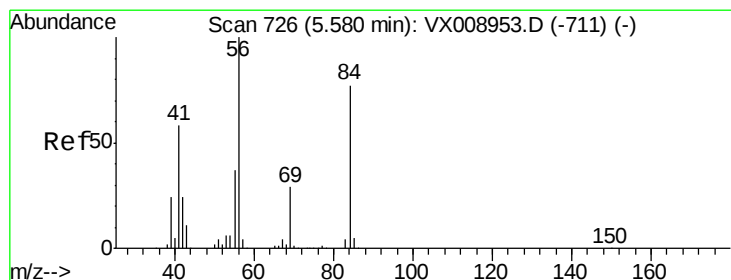
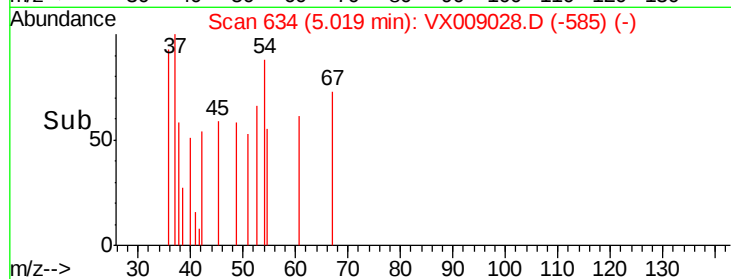
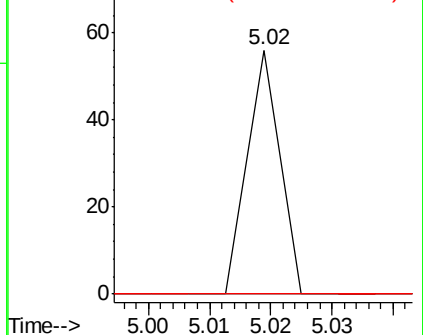
130 0.0 50.4 75.6#



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



#31

Cyclohexane

Concen: 0.979 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009028.D

Acq: 17 Apr 2019 20:27

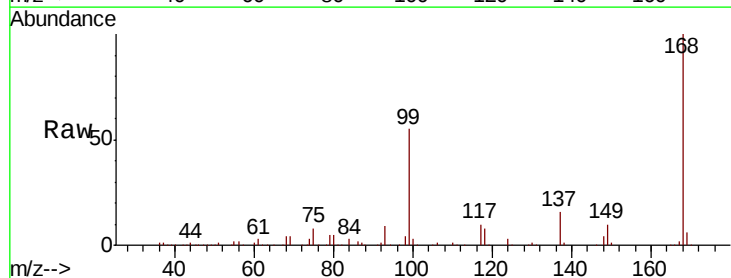
Tgt Ion: 56 Resp: 5491

Ion Ratio Lower Upper

56 100

69 174.7 23.3 34.9#

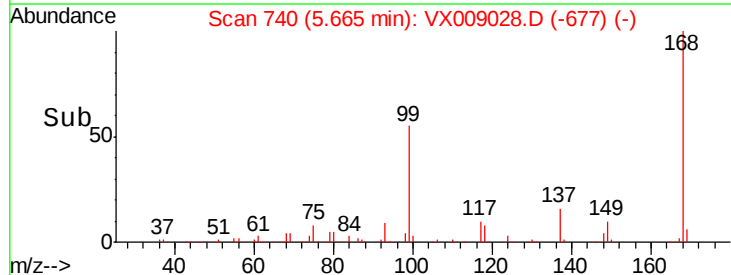
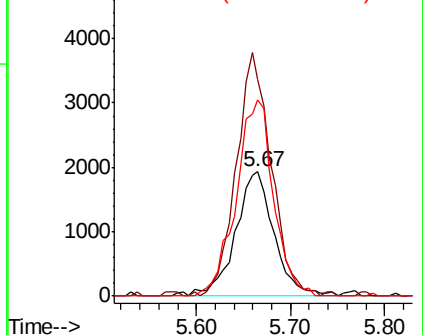
84 157.8 61.7 92.5#

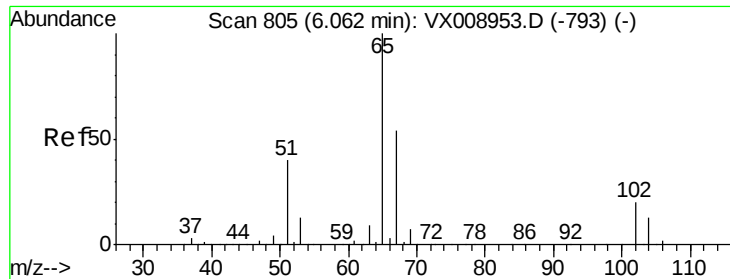


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

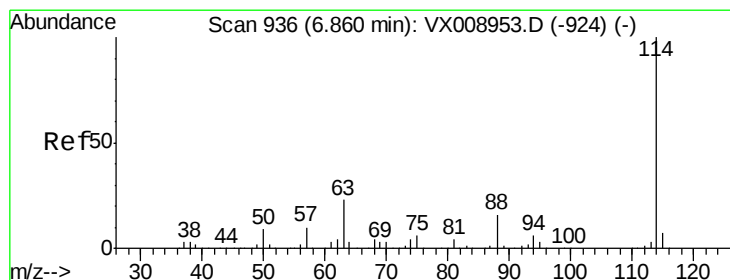
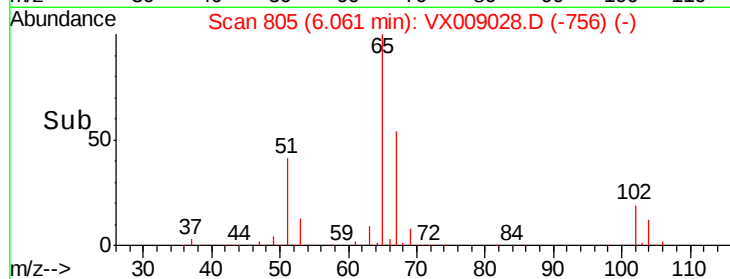
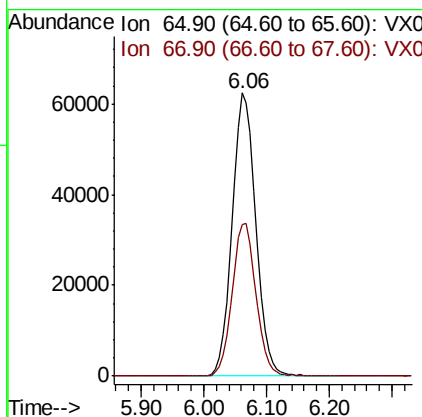
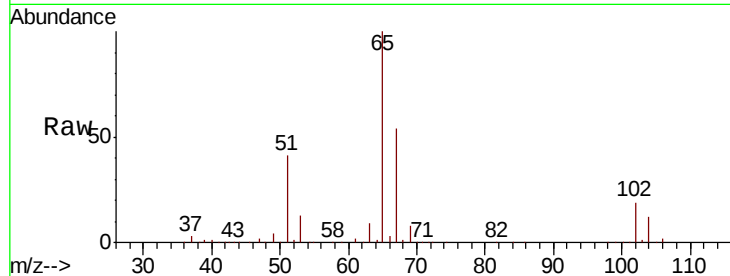




#33
 1,2-Dichloroethane-d4
 Concen: 46.287 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009028.D
 Acq: 17 Apr 2019 20:27

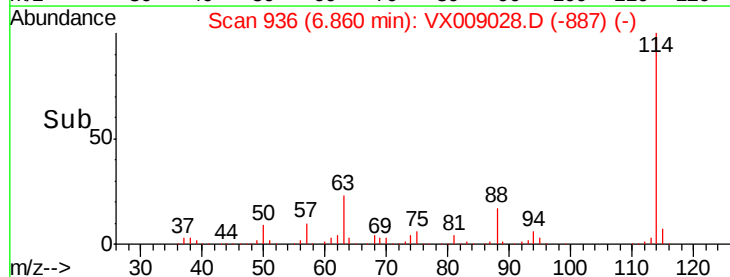
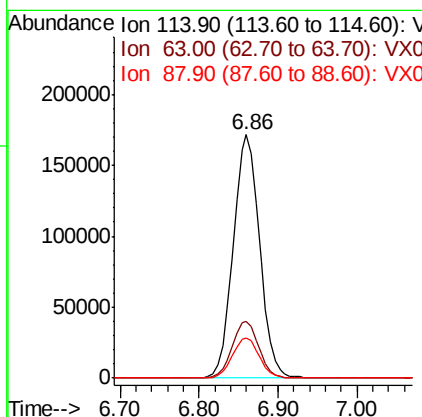
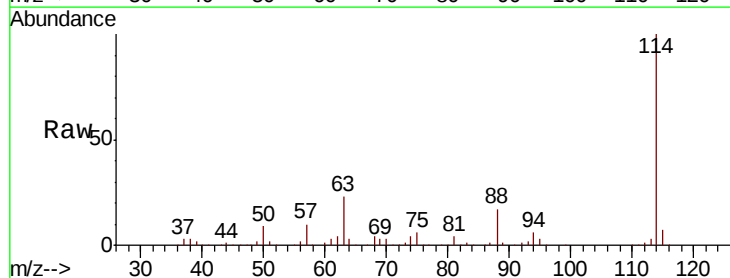
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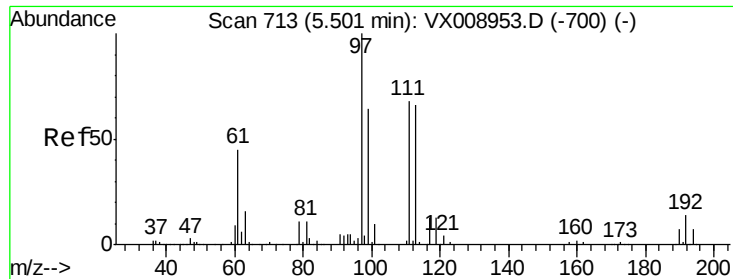
Tot Ion: 65 Resp: 163080
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009028.D
 Acq: 17 Apr 2019 20:27

Tgt Ion: 114 Resp: 399771
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 46.0
 88 16.7 0.0 32.6

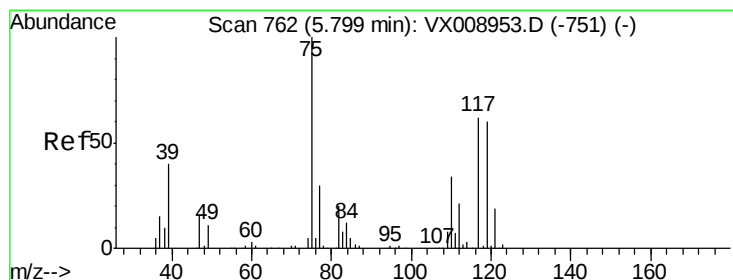
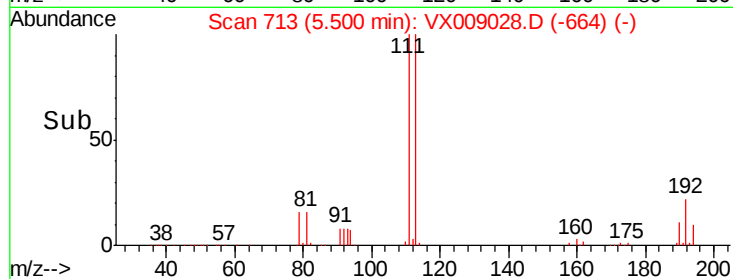
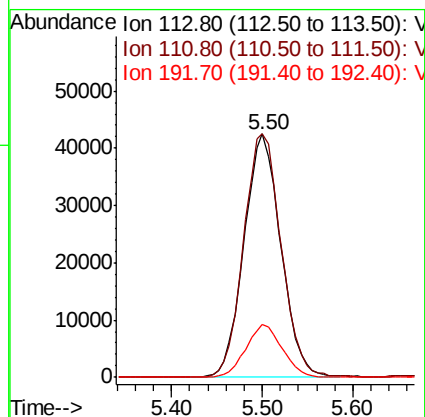
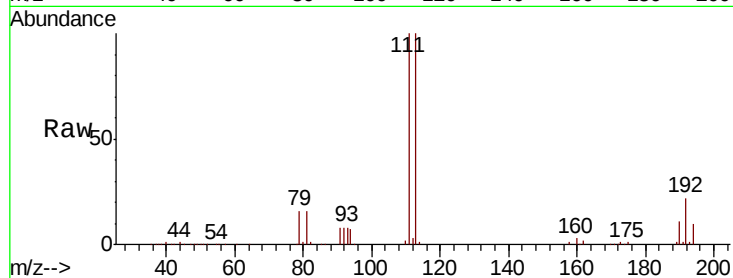




#35
 Dibromofluoromethane
 Concen: 46.526 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009028.D
 Acq: 17 Apr 2019 20:27

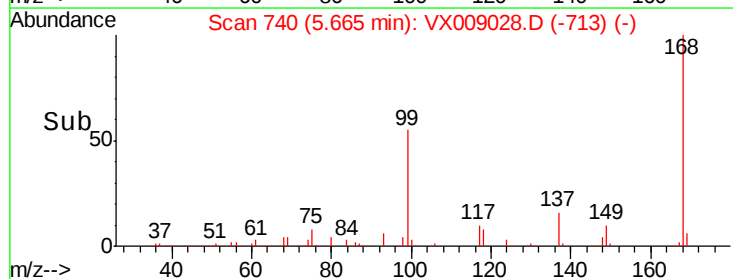
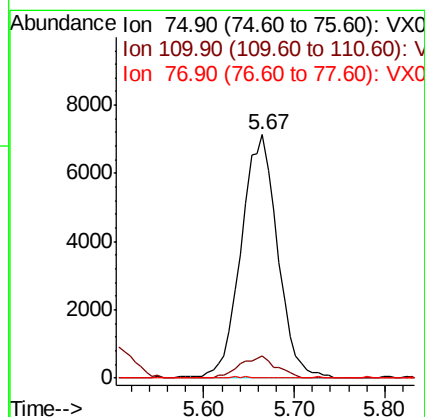
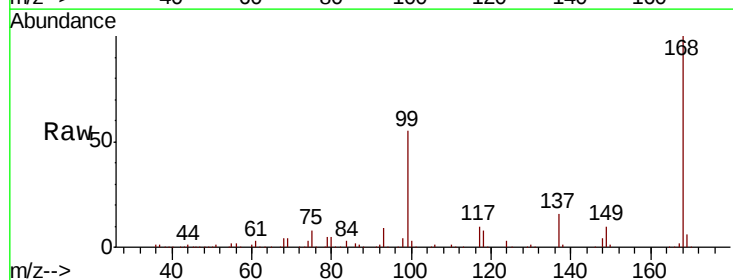
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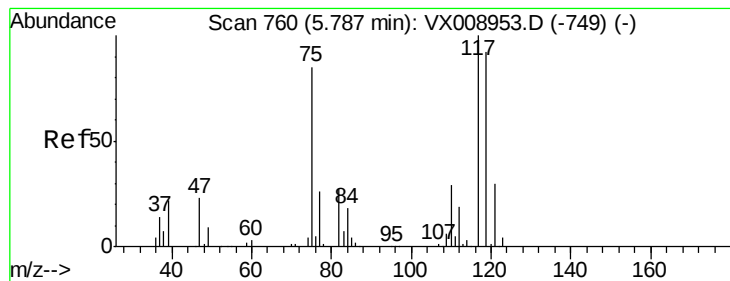
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.9	124.3
192	21.4	17.4	26.0



#36
 1,1-Dichloropropene
 Concen: 4.790 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009028.D
 Acq: 17 Apr 2019 20:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.9	50.7#
77	0.2	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.833 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0510-190415

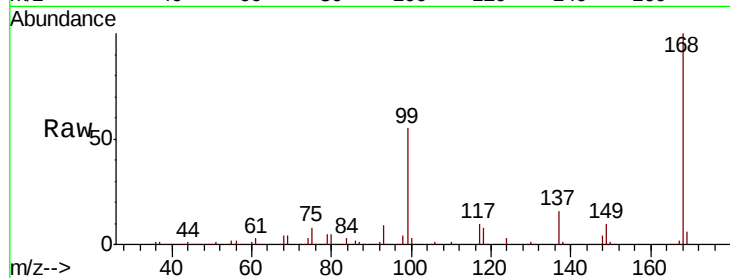
Tot Ion:117 Resp: 23950

Ion Ratio Lower Upper

117 100

119 4.6 73.8 110.8#

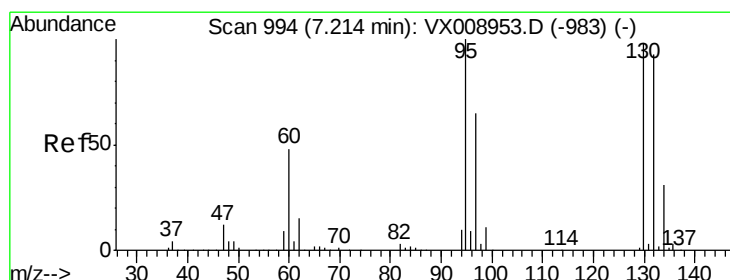
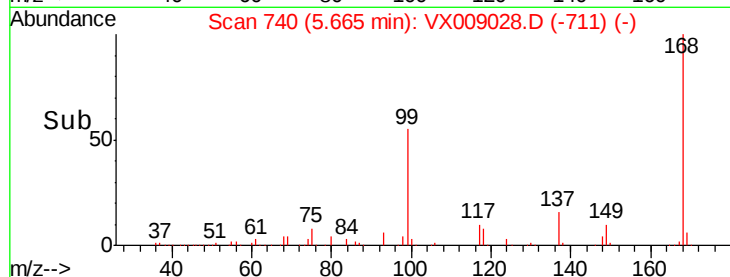
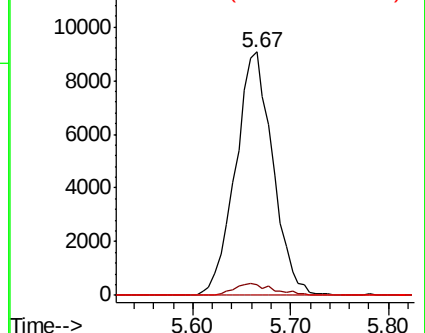
121 0.0 23.6 35.4#



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: 0.206 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009028.D

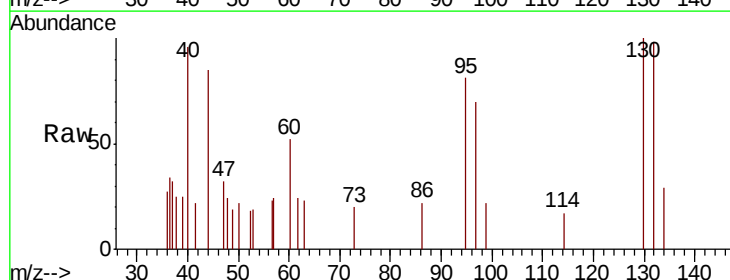
Acq: 17 Apr 2019 20:27

Tgt Ion:130 Resp: 617

Ion Ratio Lower Upper

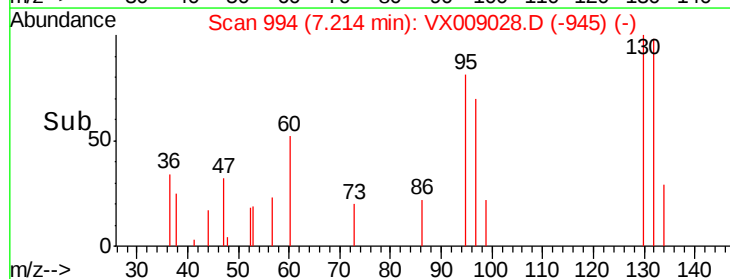
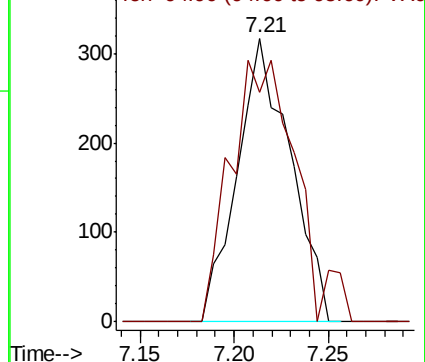
130 100

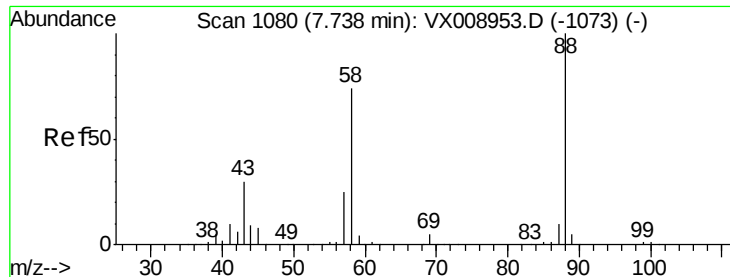
95 81.1 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.240 ug/l

RT: 7.93 min Scan# 1112

Delta R.T. 0.19 min

Lab File: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0510-190415

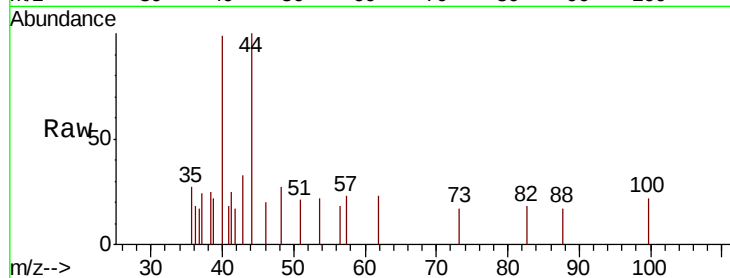
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

58 0.0 62.6 93.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

120

100

80

60

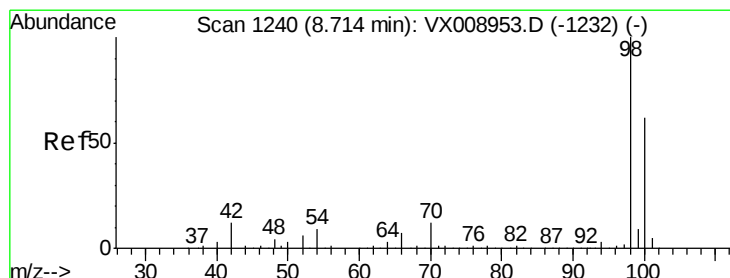
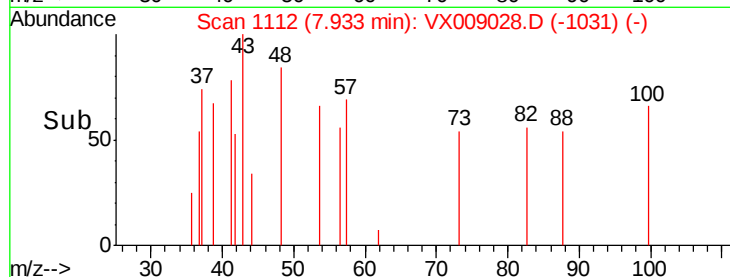
40

20

0

7.91 7.92 7.93 7.94 7.95

Time-->



#50

Toluene-d8

Concen: 48.769 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009028.D

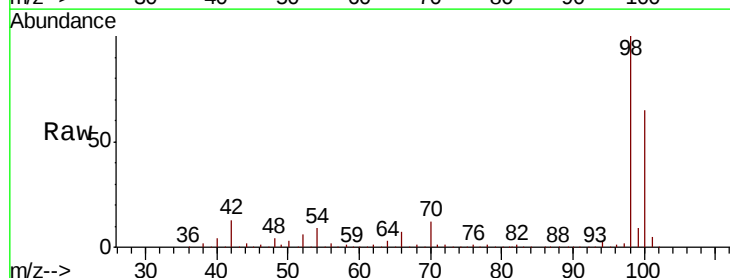
Acq: 17 Apr 2019 20:27

Tgt Ion: 98 Resp: 498996

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

300000

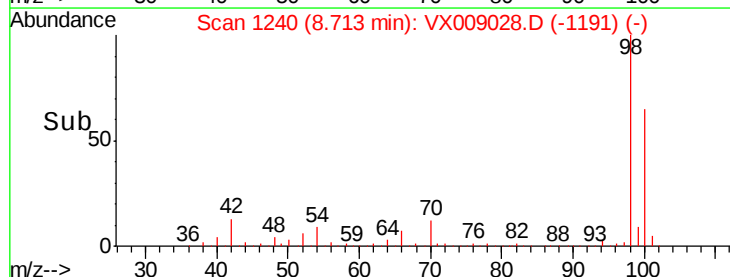
200000

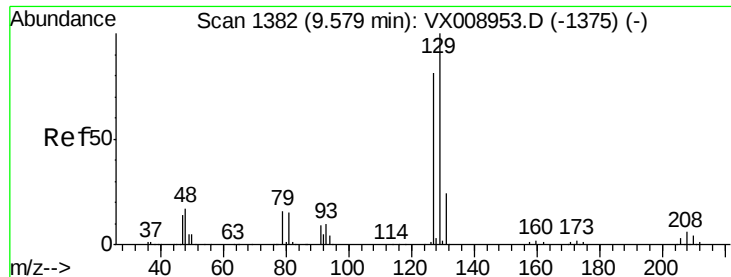
100000

0

8.60 8.70 8.80

Time-->

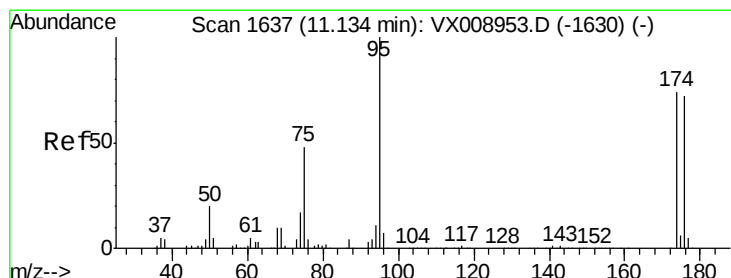
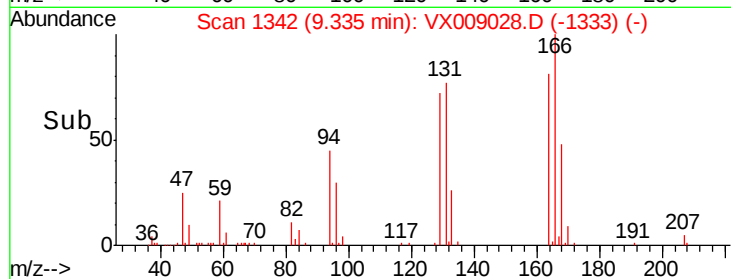
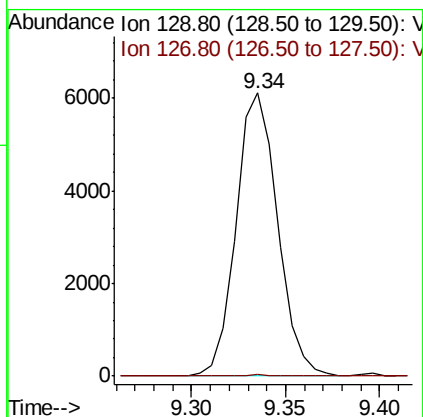
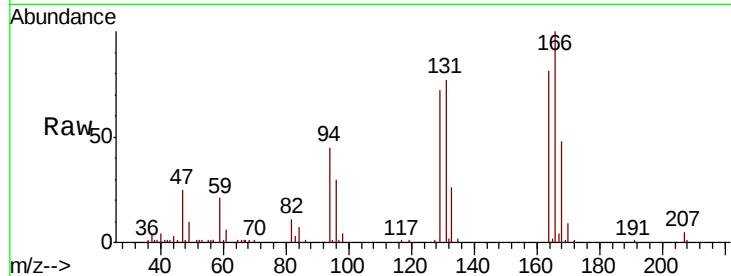




#60
 Dibromochloromethane
 Concen: 3.360 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009028.D
 Acq: 17 Apr 2019 20:27

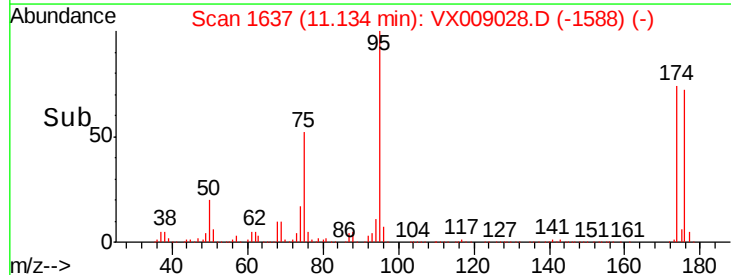
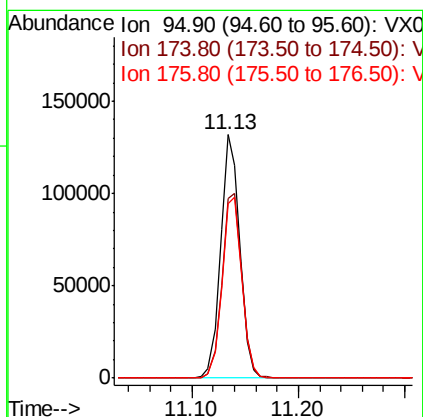
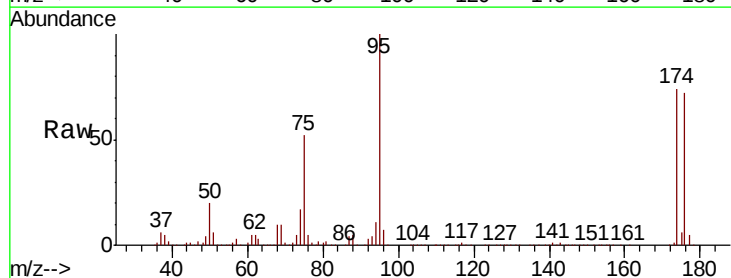
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0510-190415

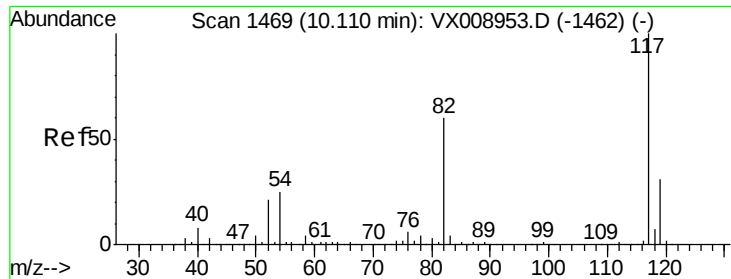
Tot Ion:129 Resp: 9330
 Ion Ratio Lower Upper
 129 100
 127 0.2 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 45.749 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009028.D
 Acq: 17 Apr 2019 20:27

Tgt Ion: 95 Resp: 165240
 Ion Ratio Lower Upper
 95 100
 174 78.8 0.0 159.6
 176 76.7 0.0 154.8

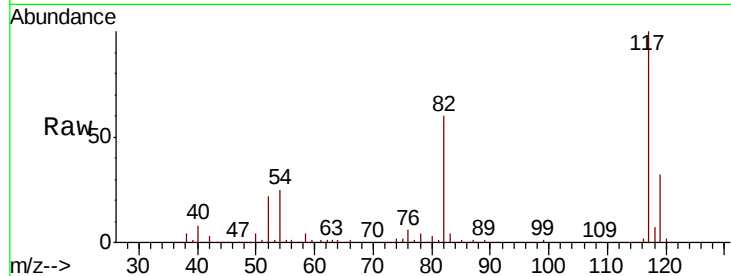




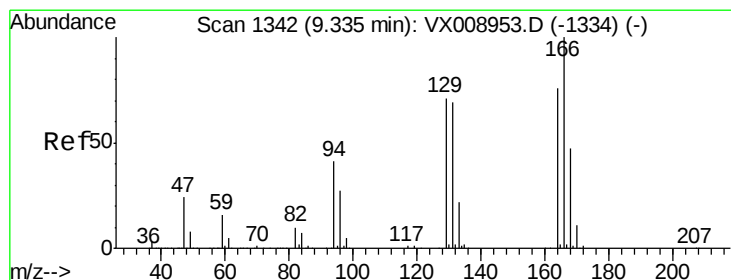
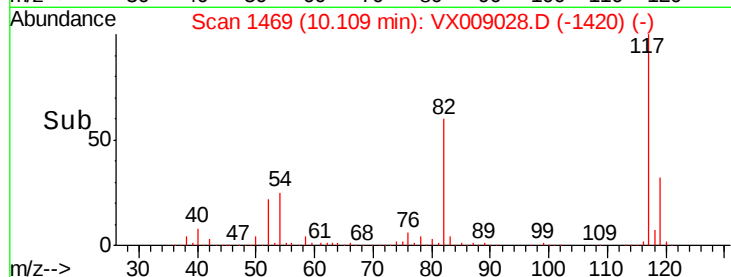
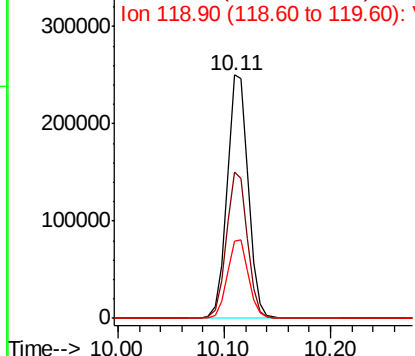
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009028.D
Acq: 17 Apr 2019 20:27

Instrument :
MSVOA_X
ClientSampleId :
DUP-0510-190415

Tot Ion:117 Resp: 347806
Ion Ratio Lower Upper
117 100
82 59.9 48.2 72.4
119 31.6 25.0 37.6

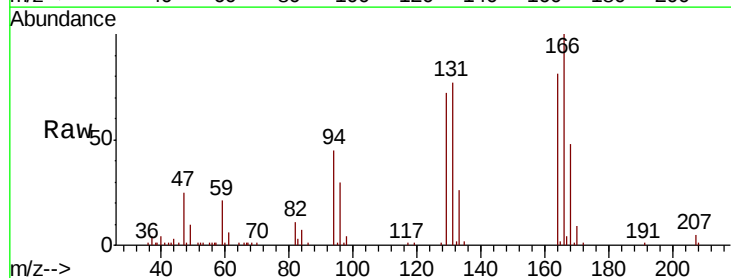


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

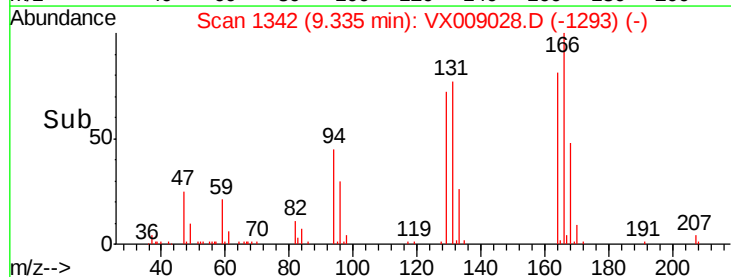
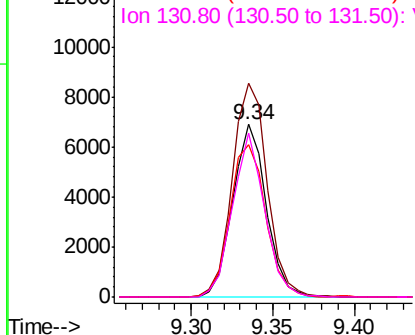


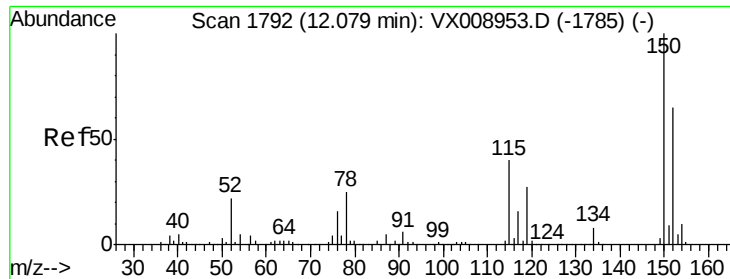
#64
Tetrachloroethene
Concen: 3.727 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009028.D
Acq: 17 Apr 2019 20:27

Tgt Ion:164 Resp: 9847
Ion Ratio Lower Upper
164 100
166 124.0 105.0 157.4
129 88.8 74.2 111.4
131 95.1 72.2 108.2



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: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0510-190415

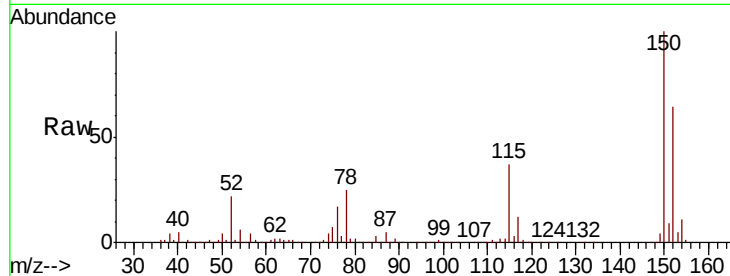
Tot Ion:152 Resp: 148496

Ion Ratio Lower Upper

152 100

115 58.5 41.4 124.2

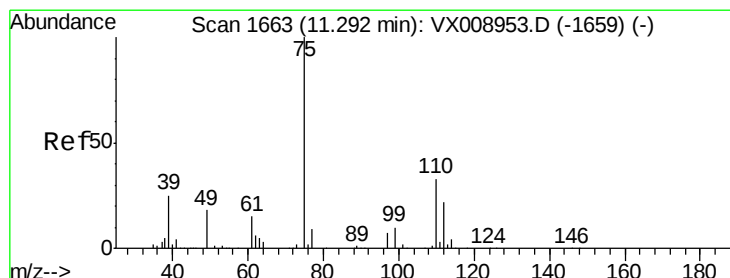
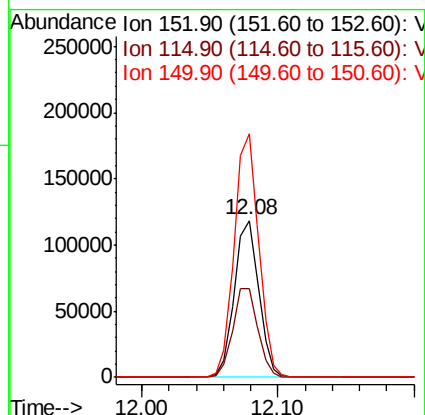
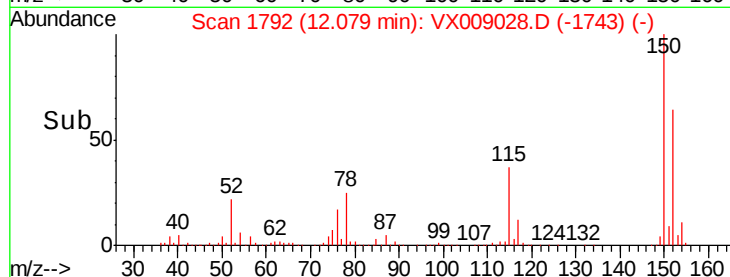
150 155.1 0.0 349.8



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: 23.337 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009028.D

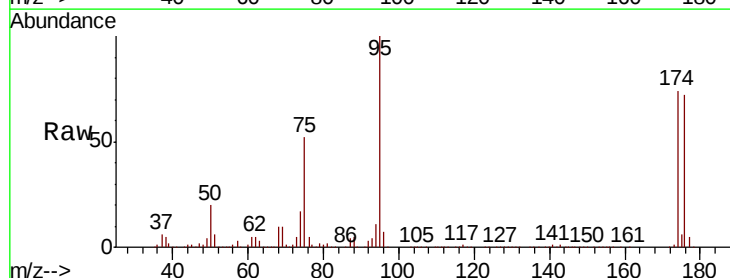
Acq: 17 Apr 2019 20:27

Tgt Ion: 75 Resp: 84620

Ion Ratio Lower Upper

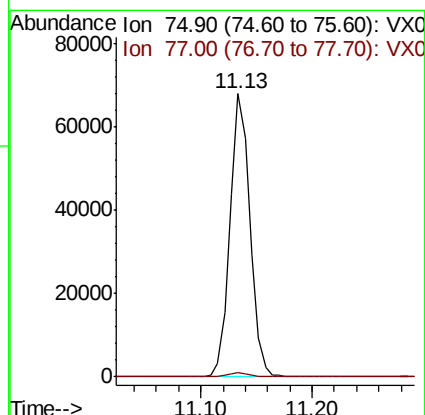
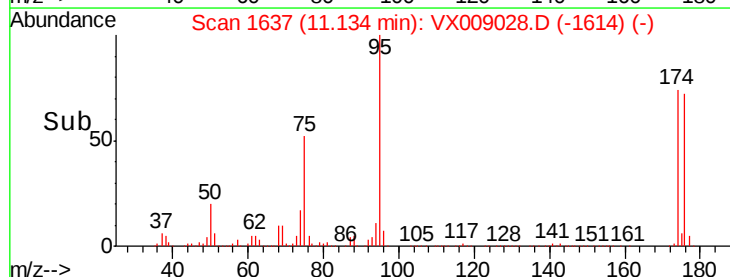
75 100

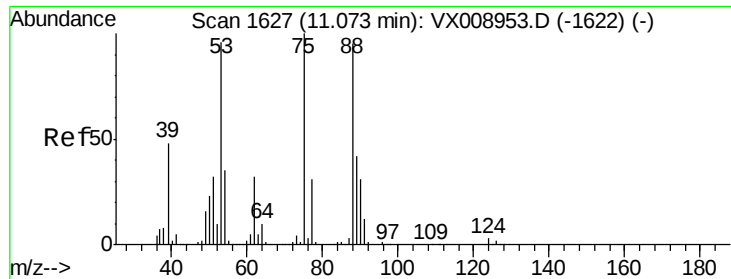
77 1.4 22.7 68.0#



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: 59.913 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009028.D

Acq: 17 Apr 2019 20:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0510-190415

Tot Ion: 75 Resp: 84620

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.1 36.0 54.0#

