

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX042919\
 Data File : VX009224.D
 Acq On : 29 Apr 2019 21:49
 Operator : JC/SP
 Sample : K2594-13 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0514-190423DL

Quant Time: Apr 30 07:22:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	215135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	345263	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134116	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	141560	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
35) Dibromofluoromethane	5.50	113	104380	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
50) Toluene-d8	8.71	98	434694	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	11.13	95	146497	46.01	ug/l	0.00
Spiked Amount			Recovery	=	92.02%	

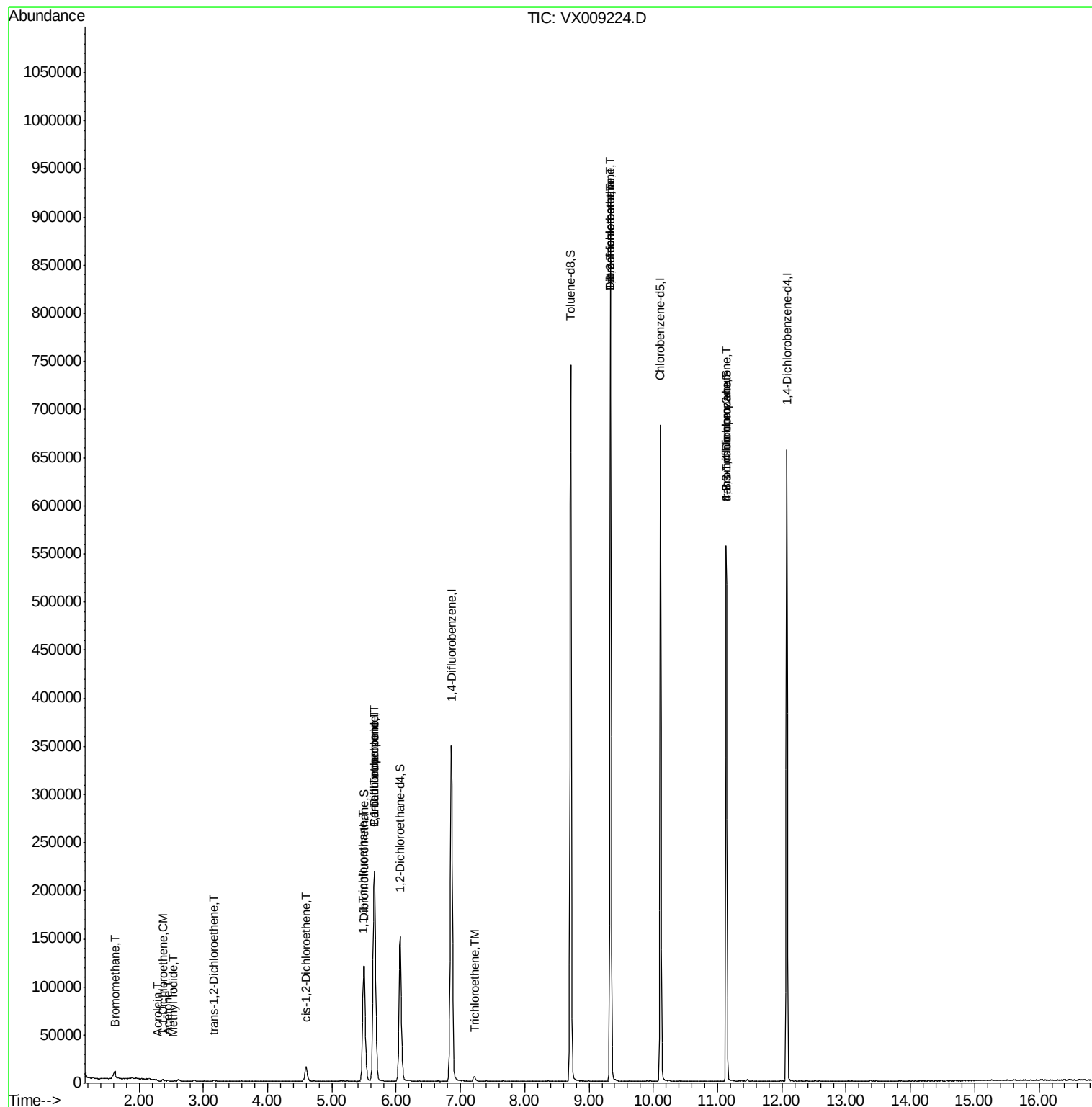
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	511	0.323	ug/l #	72
10) Methyl Iodide	2.53	142	19	4.601	ug/l #	42
12) 1,1-Dichloroethene	2.37	96	450	0.223	ug/l	92
13) Acrolein	2.29	56	125	0.203	ug/l #	1
16) Acetone	2.44	43	999	0.633	ug/l #	54
21) trans-1,2-Dichloroethene	3.17	96	502	0.229	ug/l #	69
27) cis-1,2-Dichloroethene	4.60	96	9454	3.618	ug/l	89
28) Bromochloromethane	5.03	49	57	Below Cal	#	20
32) 1,1,1-Trichloroethane	5.48	97	1220	0.347	ug/l #	44
36) 1,1-Dichloropropene	5.66	75	16693	5.203	ug/l #	51
38) Carbon Tetrachloride	5.66	117	20247	6.945	ug/l #	17
44) Trichloroethene	7.21	130	1728	0.720	ug/l	95
55) 1,1,2-Trichloroethane	9.33	97	1479	0.601	ug/l #	7
60) Dibromochloromethane	9.34	129	167328	69.570	ug/l #	11
64) Tetrachloroethene	9.34	164	180408	86.264	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	74678	24.004	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	74678	61.419	ug/l #	10

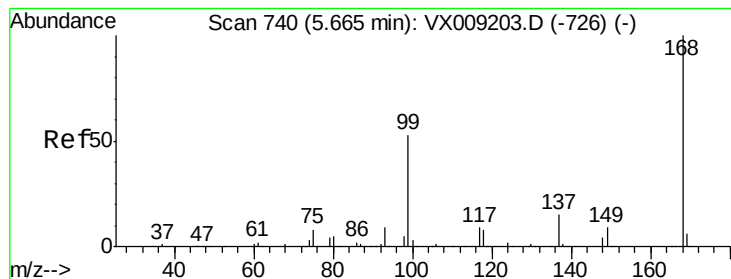
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 30 07:03:50 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: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

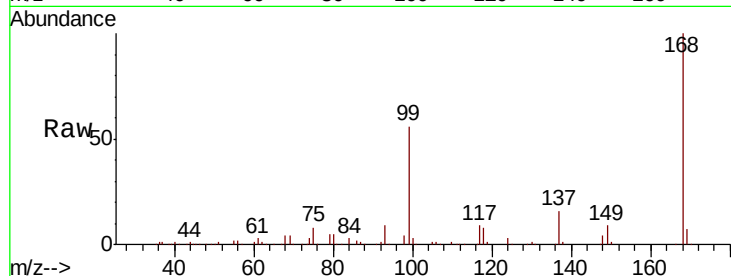
DUP-0514-190423DL

Tgt Ion:168 Resp: 215135

Ion Ratio Lower Upper

168 100

99 55.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

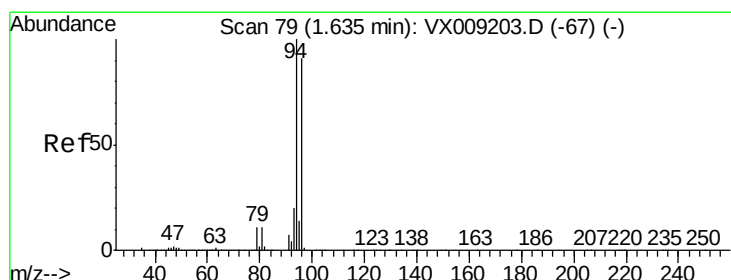
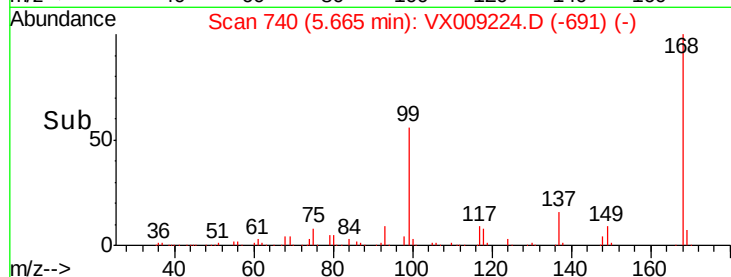
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.323 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.01 min

Lab File: VX009224.D

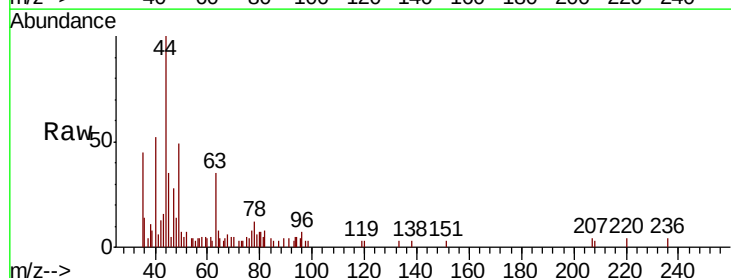
Acq: 29 Apr 2019 21:49

Tgt Ion: 94 Resp: 511

Ion Ratio Lower Upper

94 100

96 64.9 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

250

200

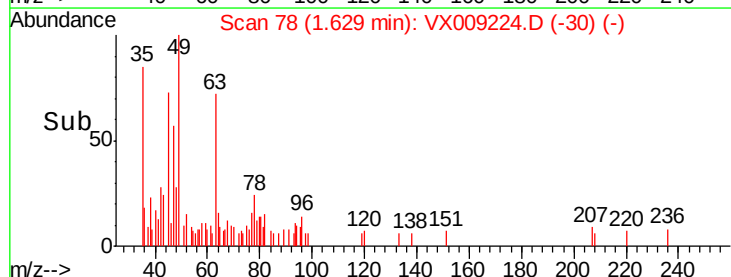
150

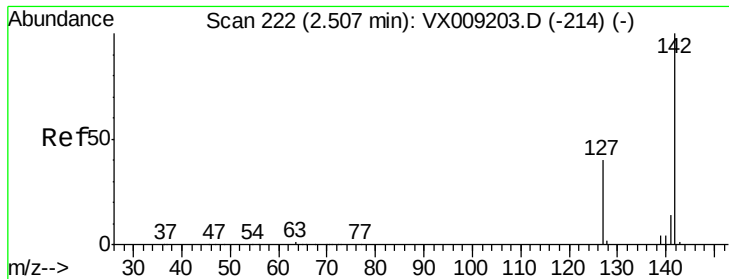
100

50

0

Time--> 1.55 1.60 1.65 1.70

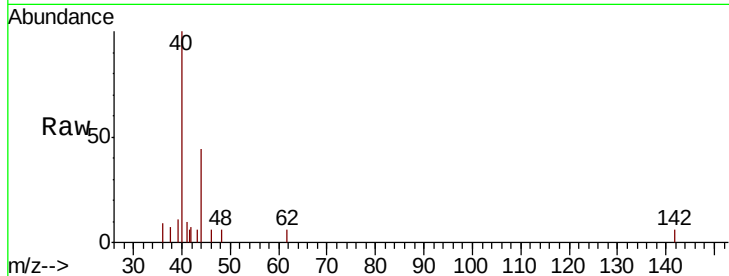




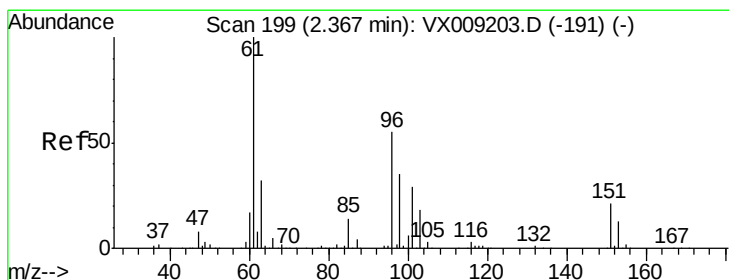
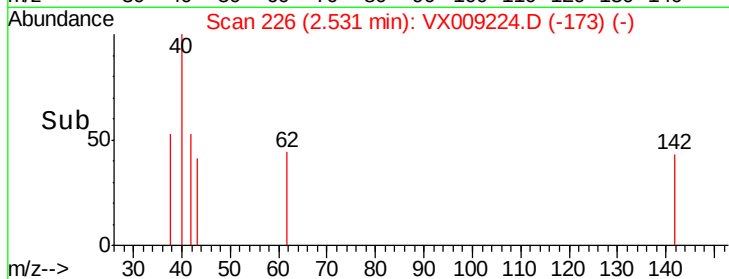
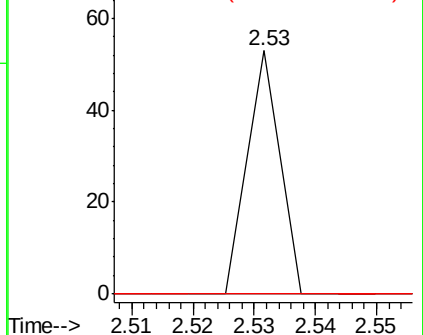
#10
Methyl Iodide
Concen: 4.601 ug/l
RT: 2.53 min Scan# 226
Delta R.T. 0.02 min
Lab File: VX009224.D
Acq: 29 Apr 2019 21:49

Instrument :
MSVOA_X
ClientSampleId :
DUP-0514-190423DL

Tgt Ion: 142 Resp: 19
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

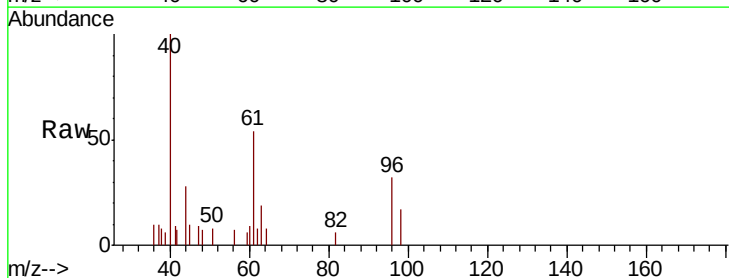


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

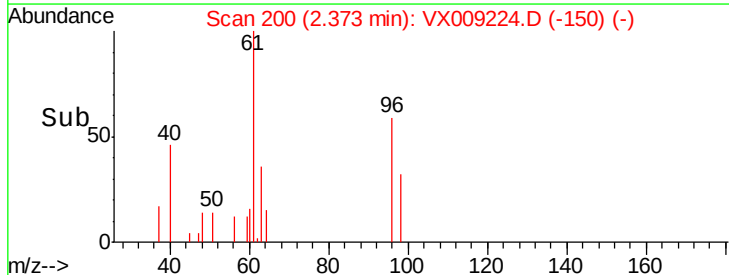
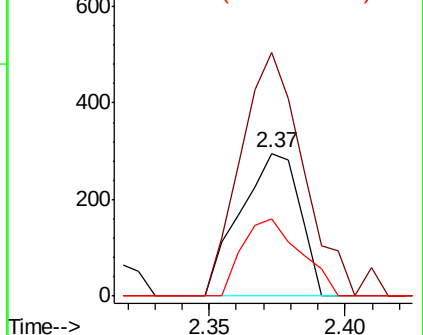


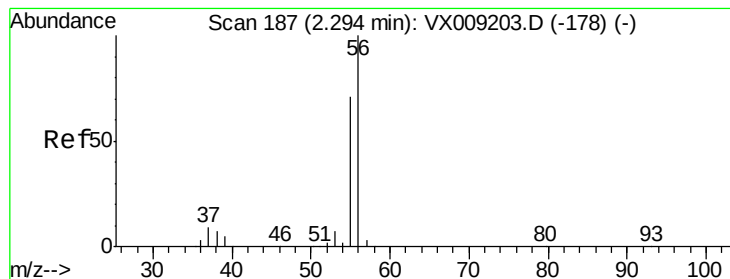
#12
1,1-Dichloroethene
Concen: 0.223 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.01 min
Lab File: VX009224.D
Acq: 29 Apr 2019 21:49

Tgt Ion: 96 Resp: 450
Ion Ratio Lower Upper
96 100
61 170.3 144.3 216.5
98 53.7 50.3 75.5



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.203 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

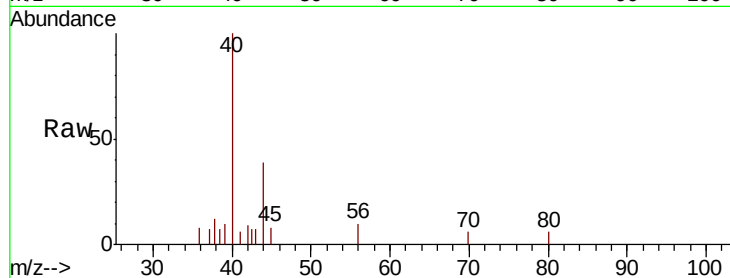
DUP-0514-190423DL

Tgt Ion: 56 Resp: 125

Ion Ratio Lower Upper

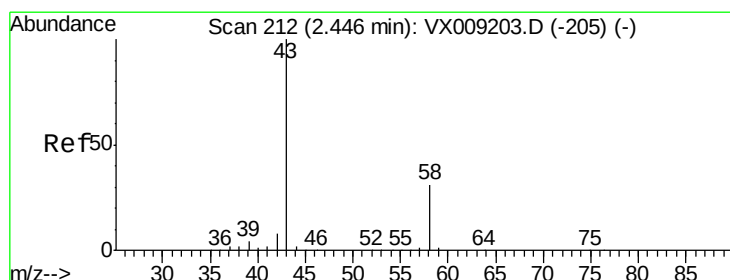
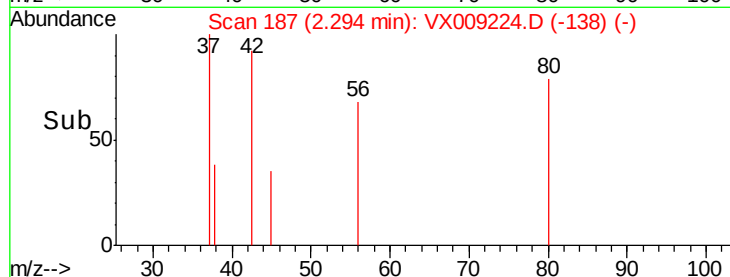
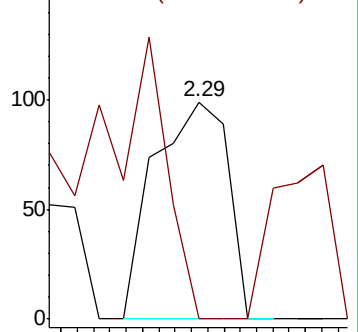
56 100

55 175.2 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.633 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009224.D

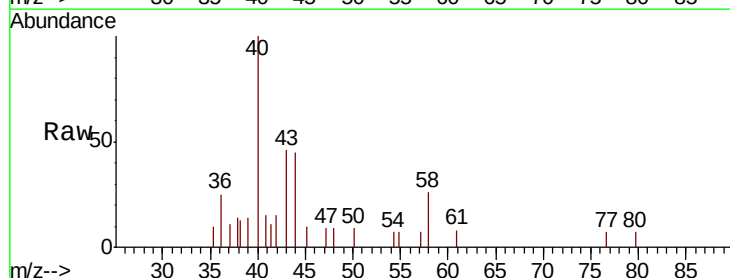
Acq: 29 Apr 2019 21:49

Tgt Ion: 43 Resp: 999

Ion Ratio Lower Upper

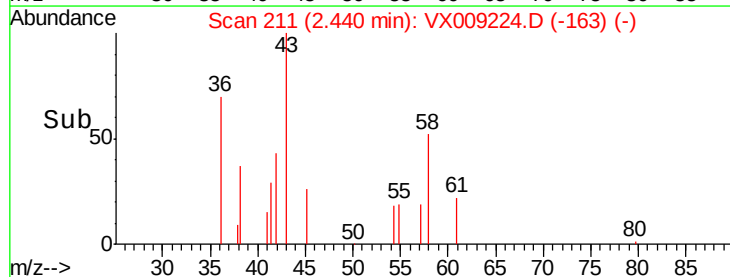
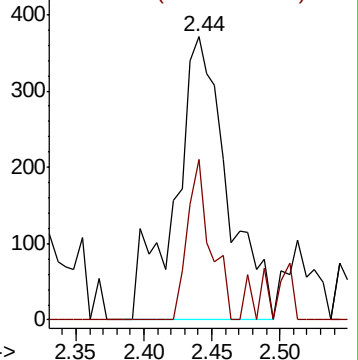
43 100

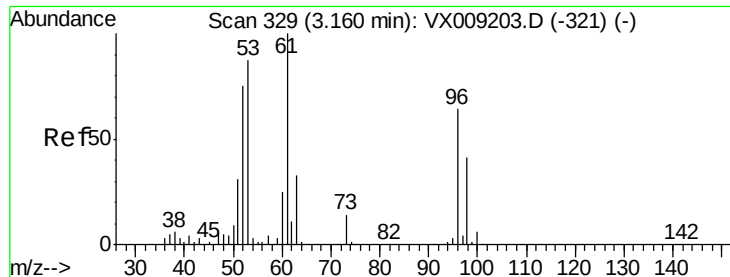
58 56.6 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.229 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

DUP-0514-190423DL

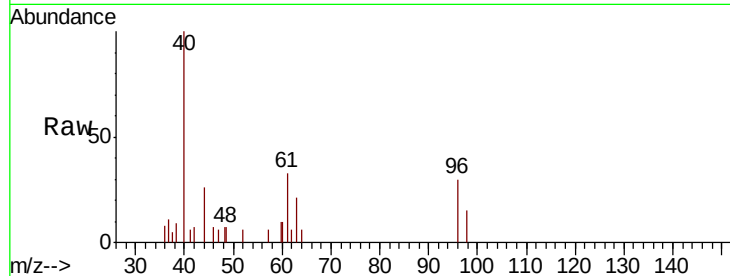
Tgt Ion: 96 Resp: 502

Ion Ratio Lower Upper

96 100

61 108.9 124.5 186.7#

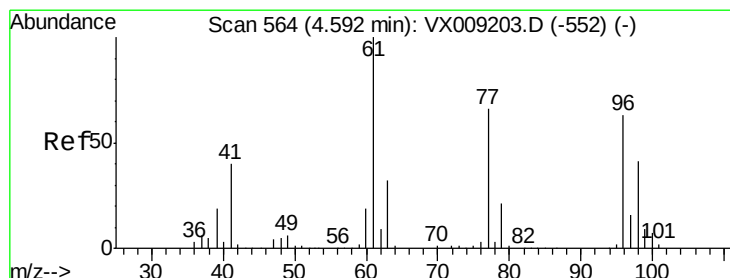
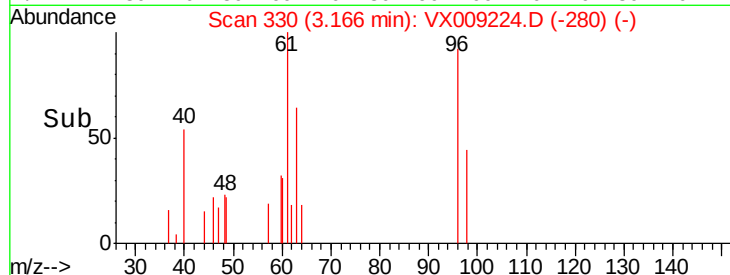
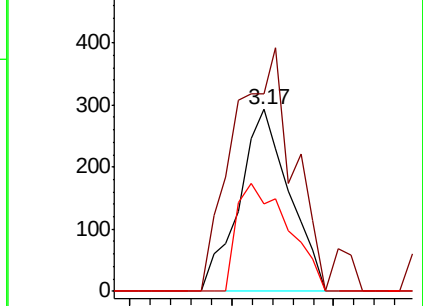
98 48.1 50.4 75.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 3.618 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

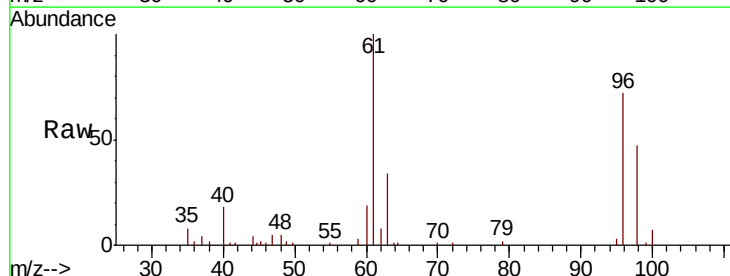
Tgt Ion: 96 Resp: 9454

Ion Ratio Lower Upper

96 100

61 141.0 0.0 324.0

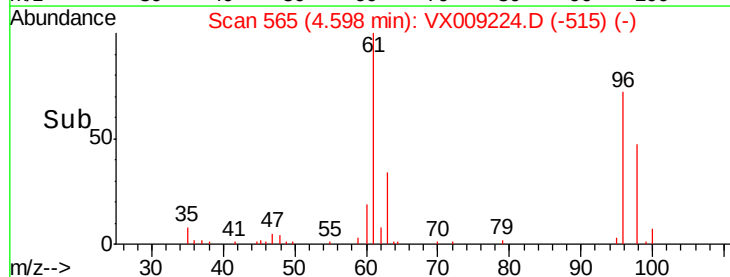
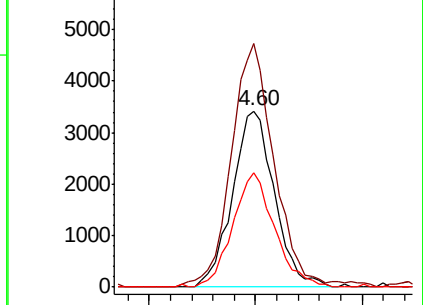
98 64.6 0.0 130.4

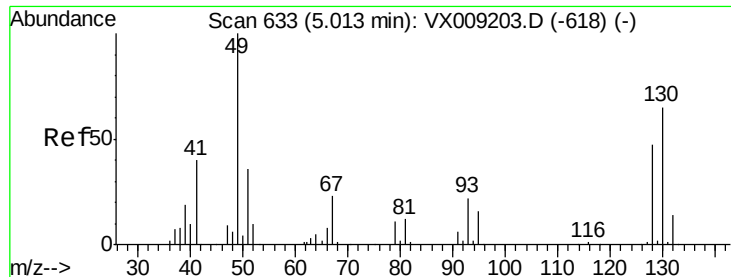


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.02 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

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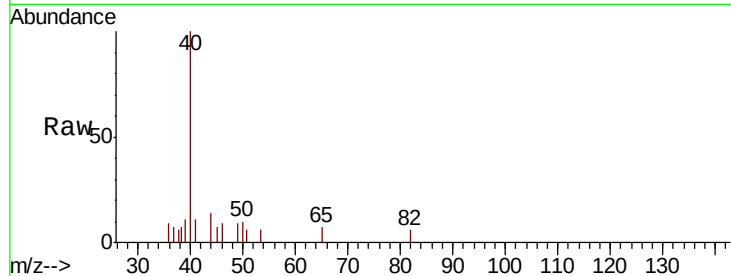
Tgt Ion: 49 Resp: 57

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

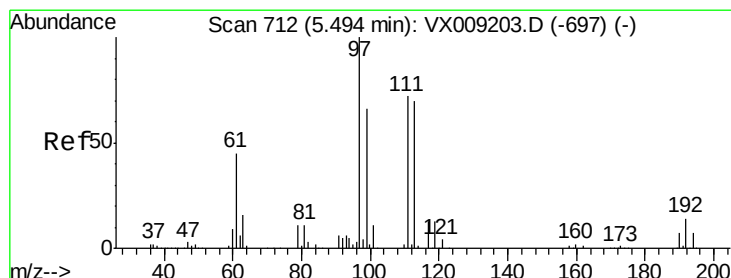
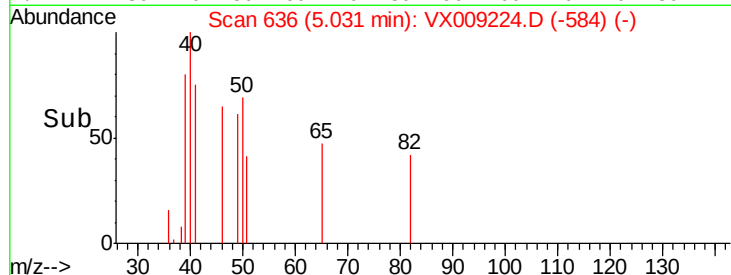
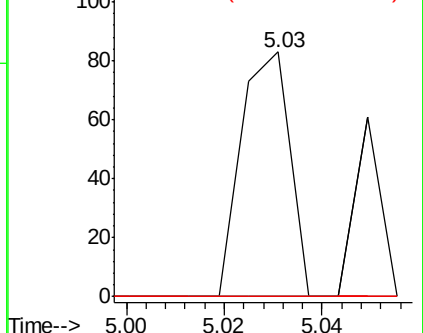
130 0.0 51.2 76.8#



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



#32

1,1,1-Trichloroethane

Concen: 0.347 ug/l

RT: 5.48 min Scan# 710

Delta R.T. -0.01 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

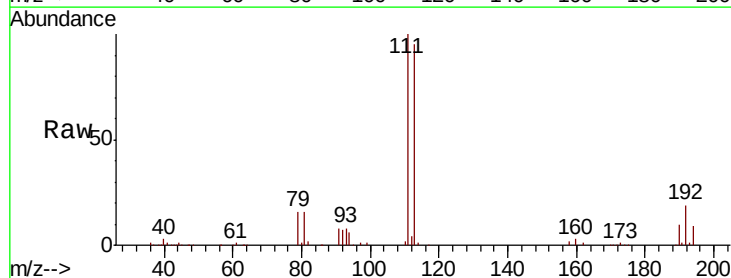
Tgt Ion: 97 Resp: 1220

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.8#

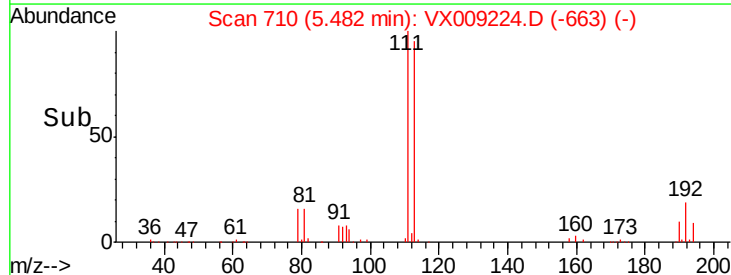
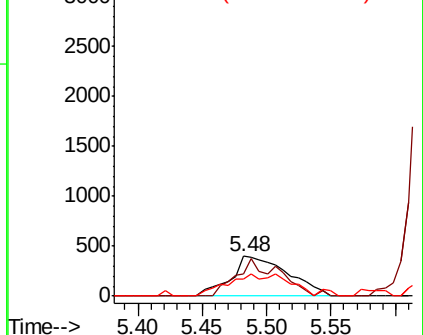
61 33.2 37.8 56.8#

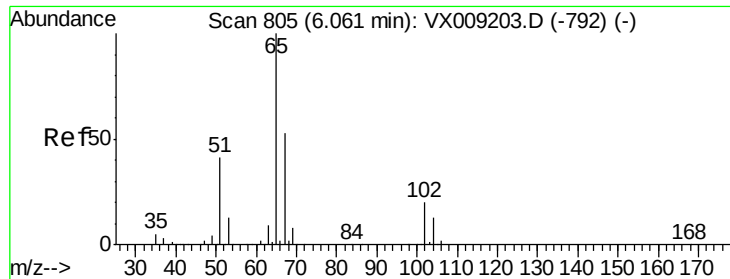


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

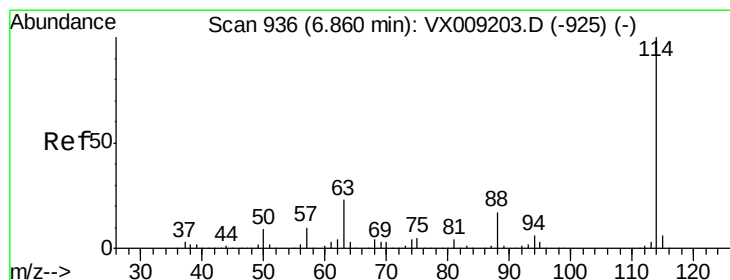
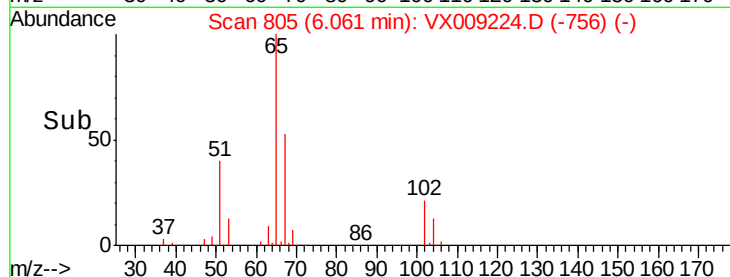
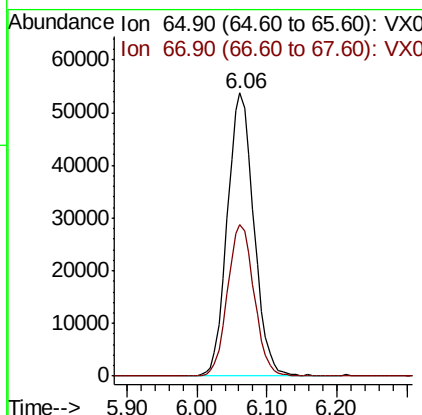
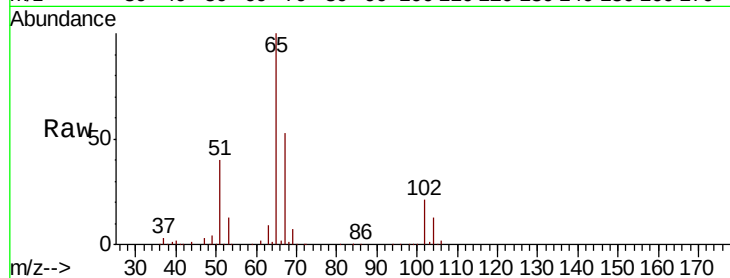




#33
 1,2-Dichloroethane-d4
 Concen: 48.201 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009224.D
 Acq: 29 Apr 2019 21:49

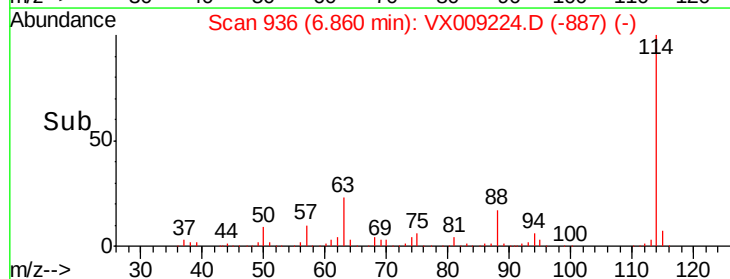
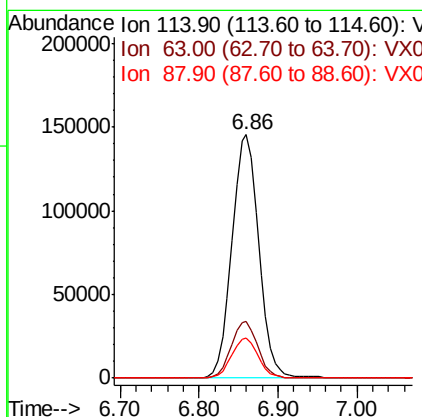
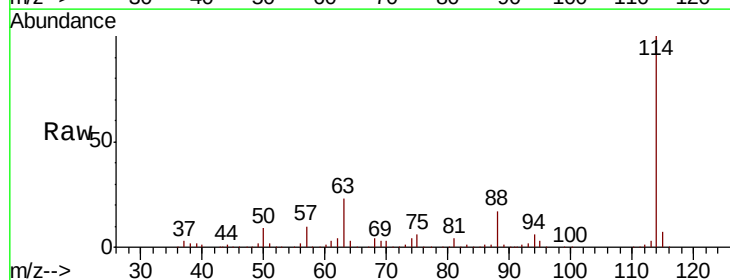
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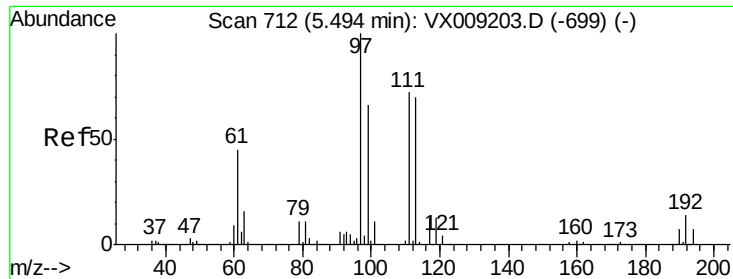
Tgt Ion: 65 Resp: 141560
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009224.D
 Acq: 29 Apr 2019 21:49

Tgt Ion: 114 Resp: 345263
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.6
 88 16.6 0.0 33.2

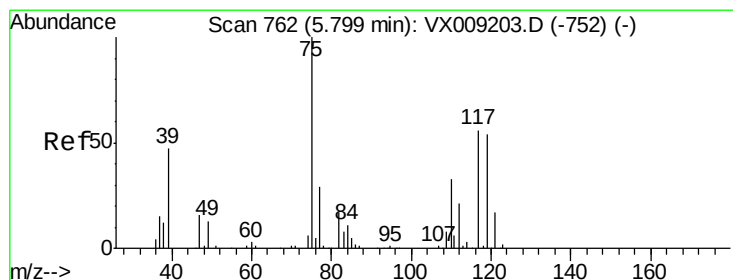
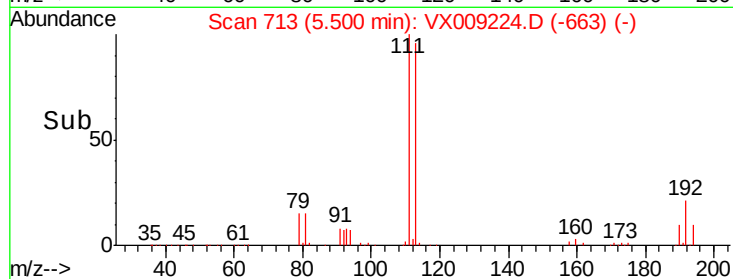
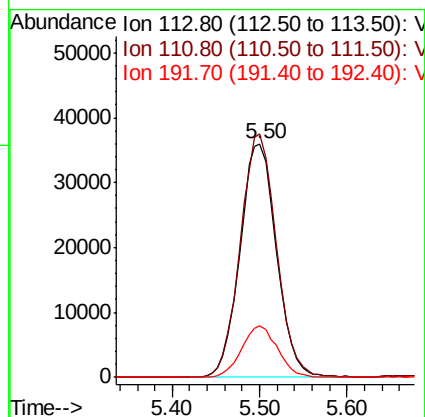
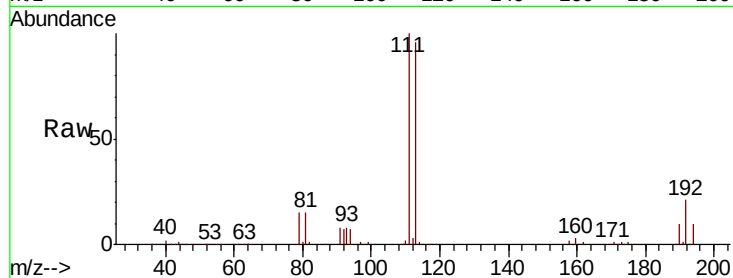




#35
 Dibromofluoromethane
 Concen: 48.091 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009224.D
 Acq: 29 Apr 2019 21:49

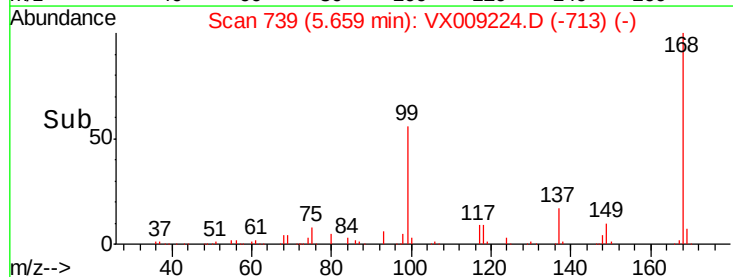
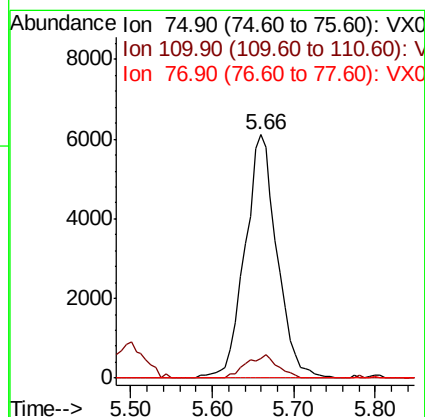
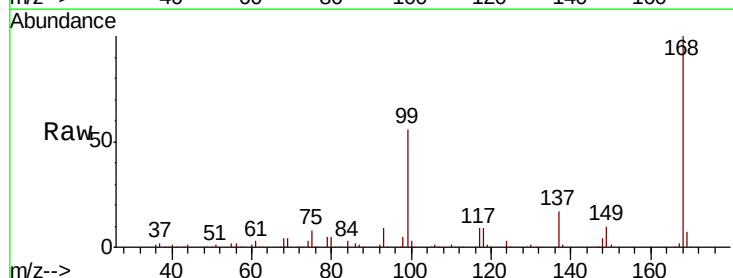
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0514-190423DL

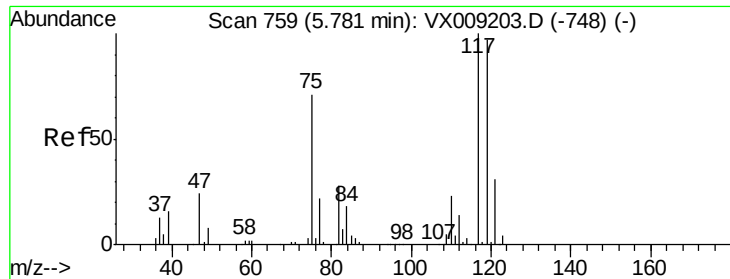
Tgt Ion:113 Resp: 104380
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.8 124.2
 192 21.8 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.203 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009224.D
 Acq: 29 Apr 2019 21:49

Tgt Ion: 75 Resp: 16693
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.945 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

DUP-0514-190423DL

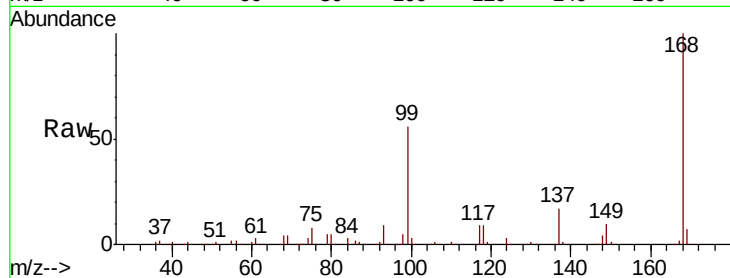
Tgt Ion:117 Resp: 20247

Ion Ratio Lower Upper

117 100

119 6.9 77.5 116.3#

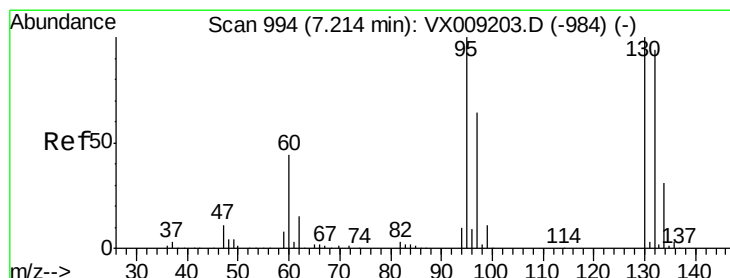
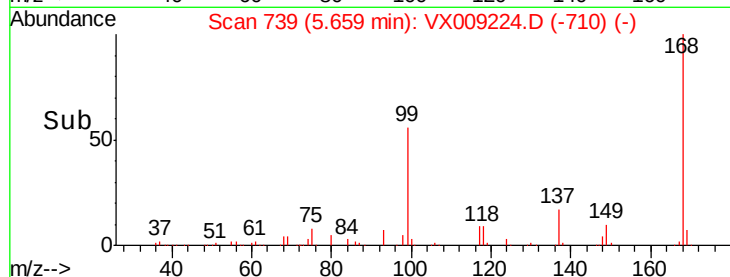
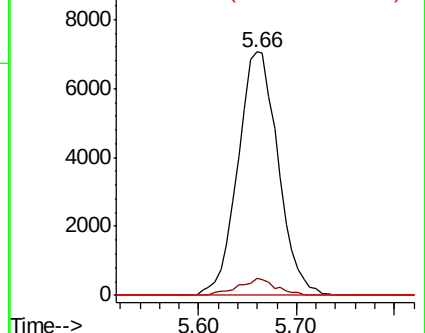
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.720 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009224.D

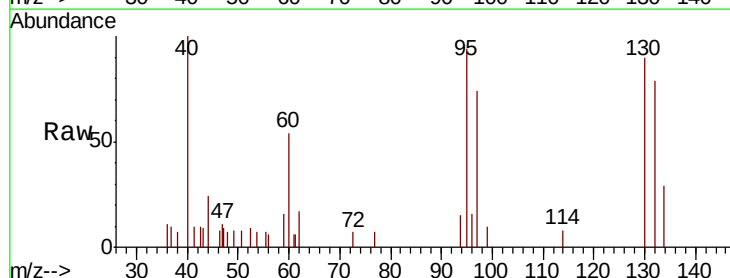
Acq: 29 Apr 2019 21:49

Tgt Ion:130 Resp: 1728

Ion Ratio Lower Upper

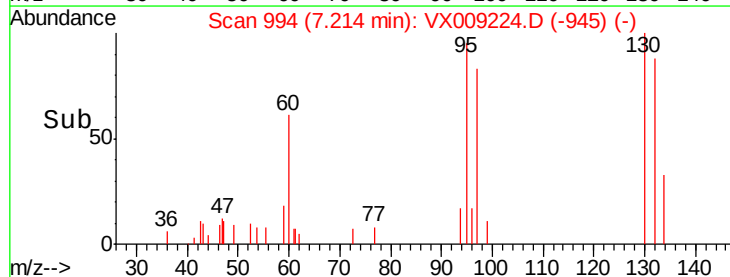
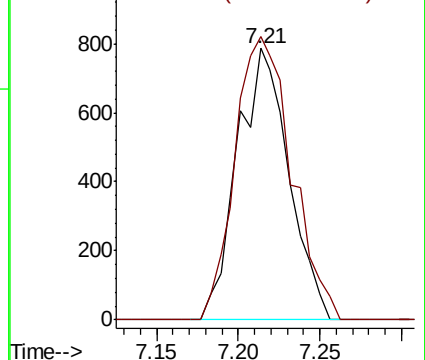
130 100

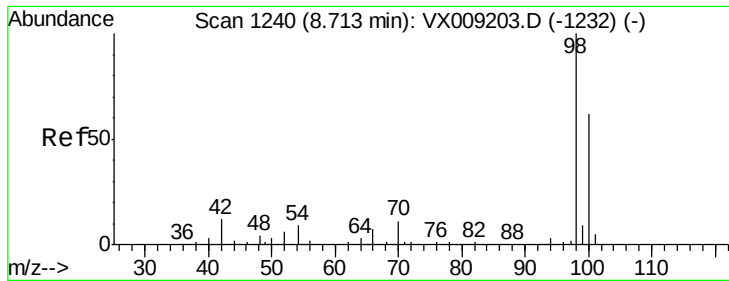
95 104.3 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.607 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

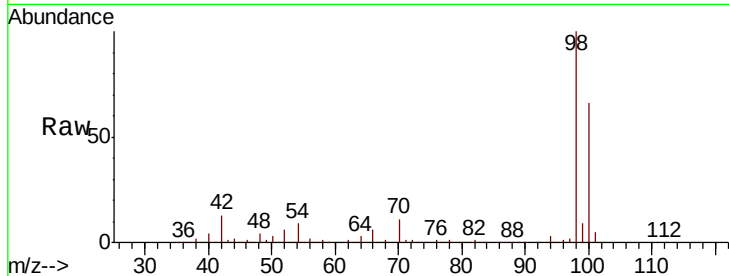
DUP-0514-190423DL

Tgt Ion: 98 Resp: 434694

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

300000

250000

200000

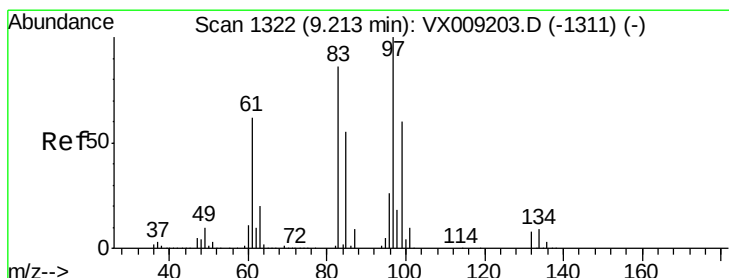
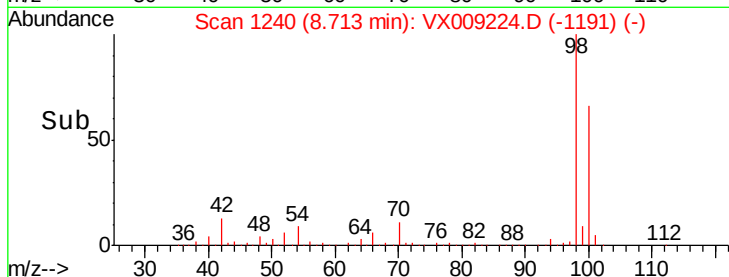
150000

100000

50000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.601 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Tgt Ion: 97 Resp: 1479

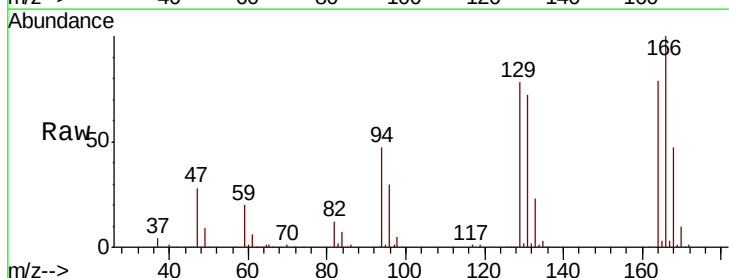
Ion Ratio Lower Upper

97 100

83 238.5 68.9 103.3#

85 44.0 43.8 65.6

99 14.4 48.2 72.2#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

4000

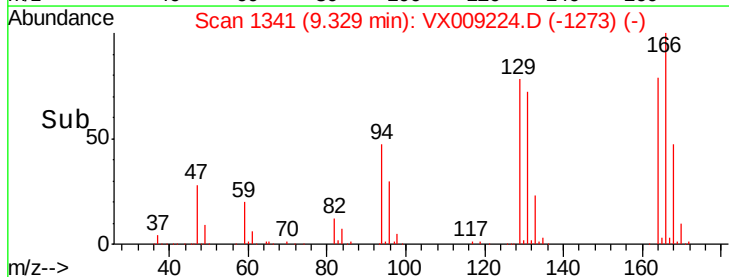
3000

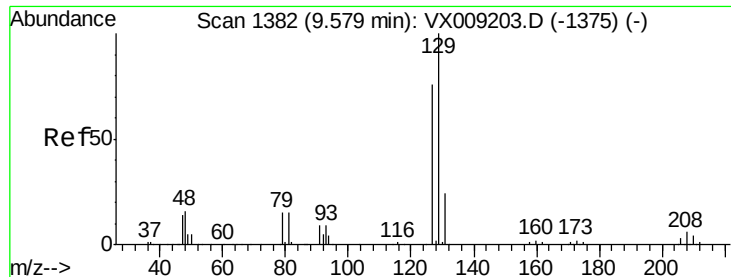
2000

1000

0

Time-->





#60

Dibromochloromethane

Concen: 69.570 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

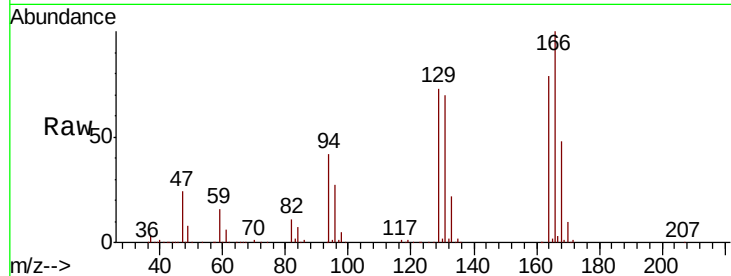
DUP-0514-190423DL

Tgt Ion:129 Resp: 167328

Ion Ratio Lower Upper

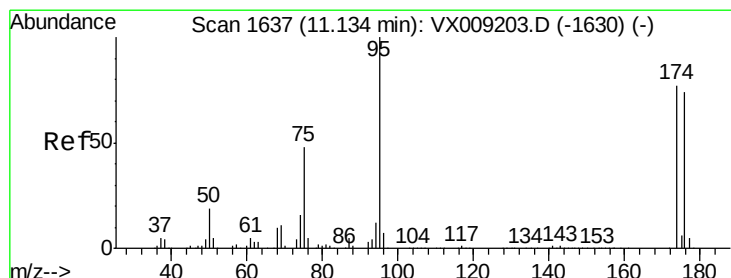
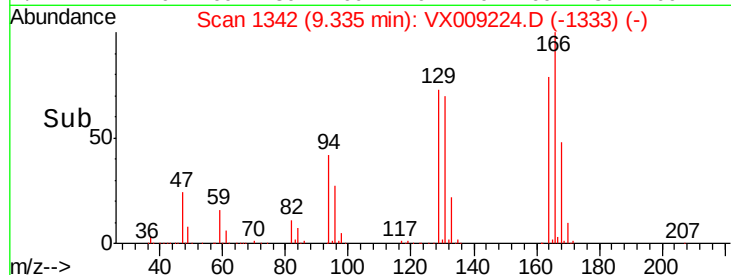
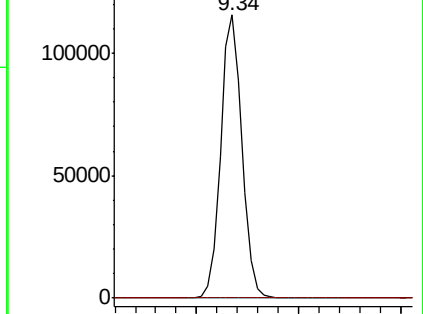
129 100

127 0.1 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.010 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

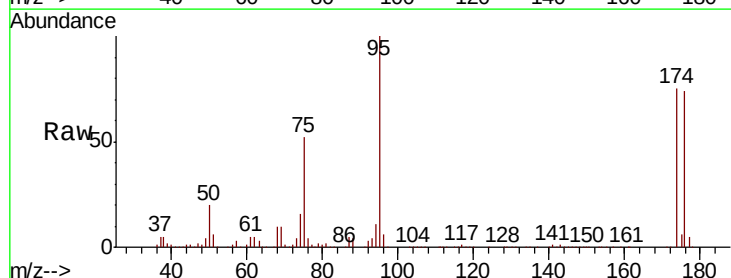
Tgt Ion: 95 Resp: 146497

Ion Ratio Lower Upper

95 100

174 80.6 0.0 161.6

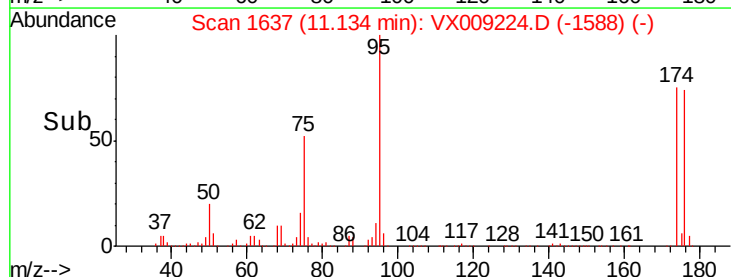
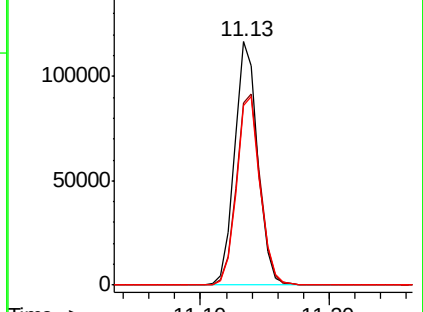
176 78.5 0.0 159.2

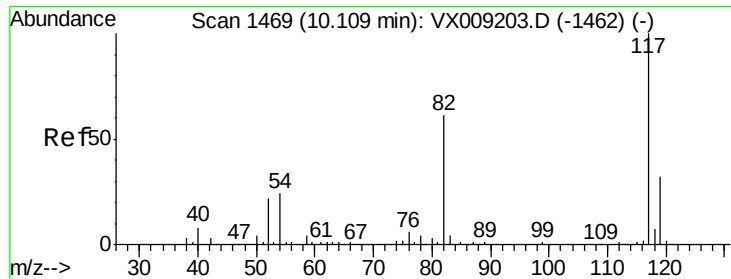


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

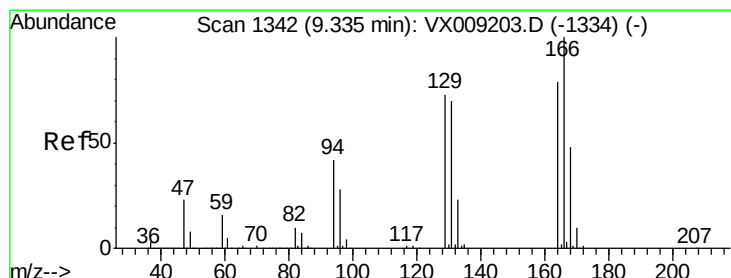
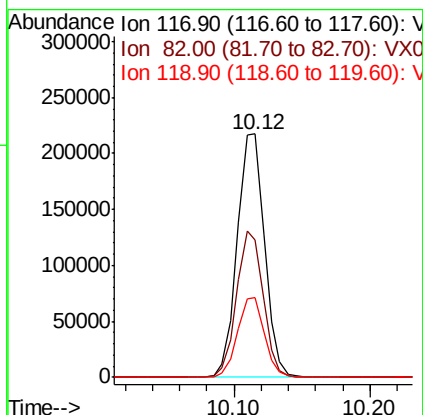
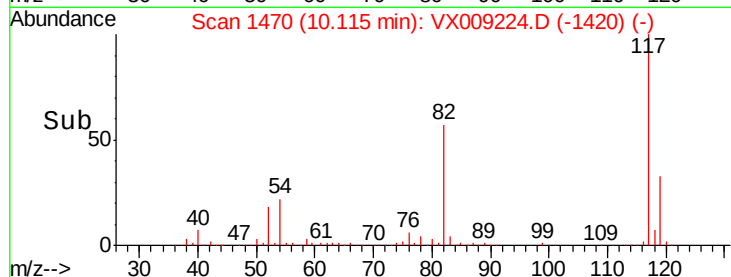
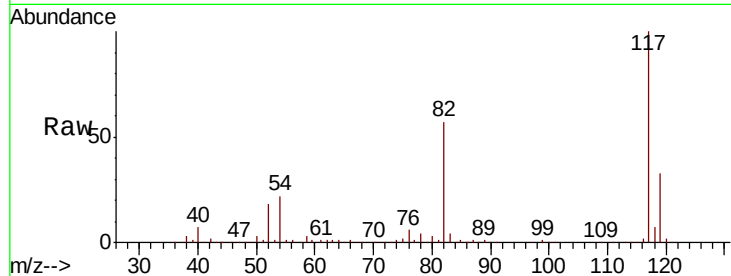




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009224.D
Acq: 29 Apr 2019 21:49

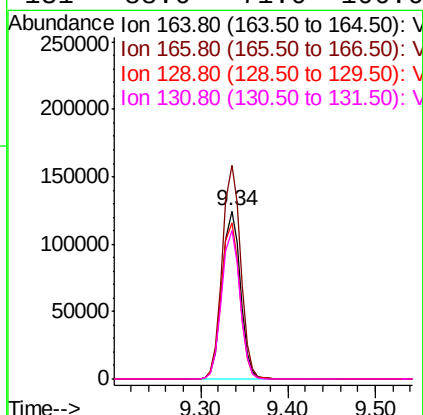
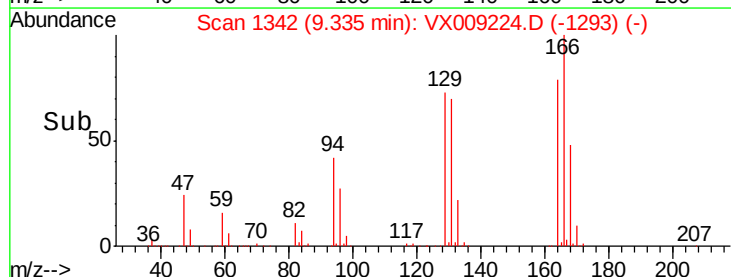
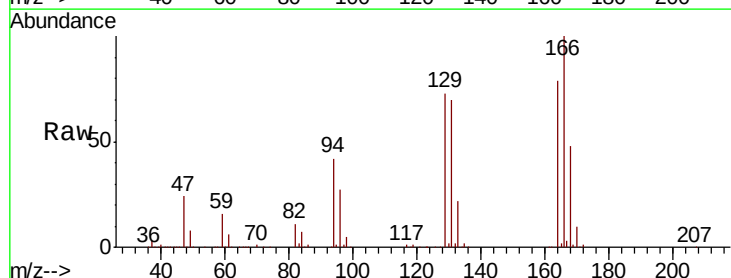
Instrument :
MSVOA_X
ClientSampleId :
DUP-0514-190423DL

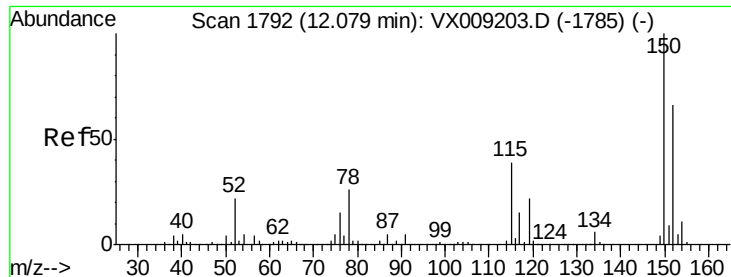
Tgt Ion:117 Resp: 304880
Ion Ratio Lower Upper
117 100
82 56.6 48.8 73.2
119 32.6 25.8 38.6



#64
Tetrachloroethene
Concen: 86.264 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009224.D
Acq: 29 Apr 2019 21:49

Tgt Ion:164 Resp: 180408
Ion Ratio Lower Upper
164 100
166 127.1 101.2 151.8
129 92.6 74.3 111.5
131 88.6 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

DUP-0514-190423DL

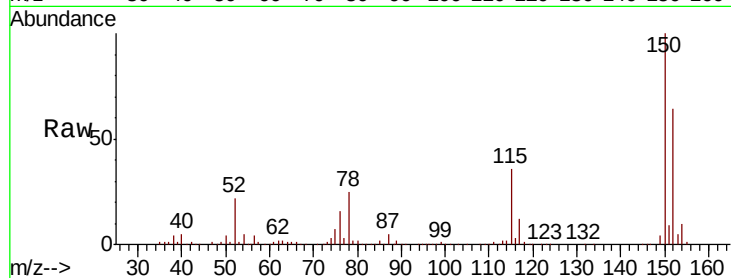
Tgt Ion:152 Resp: 134116

Ion Ratio Lower Upper

152 100

115 58.2 41.2 123.6

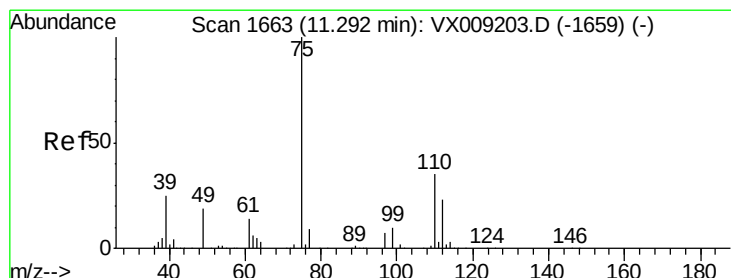
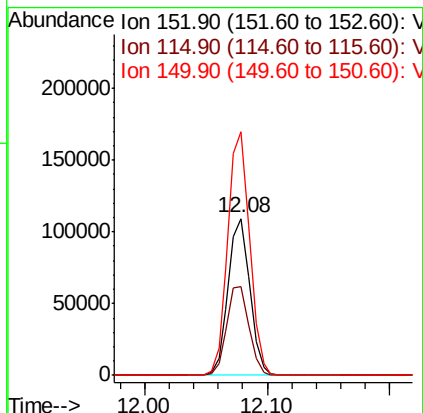
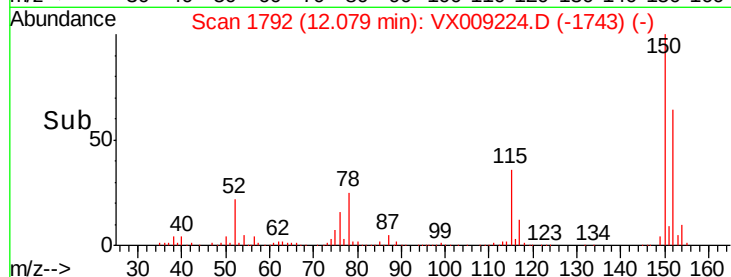
150 156.2 0.0 346.4



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: 24.004 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009224.D

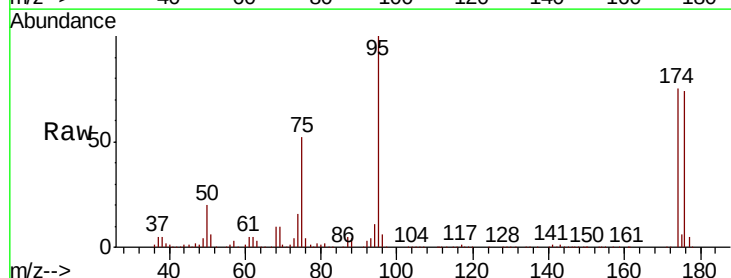
Acq: 29 Apr 2019 21:49

Tgt Ion: 75 Resp: 74678

Ion Ratio Lower Upper

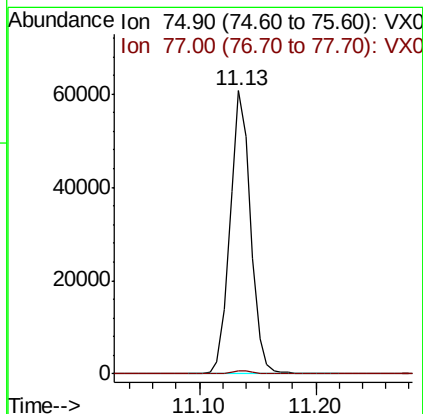
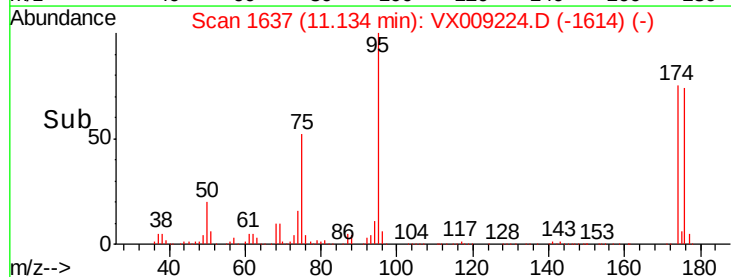
75 100

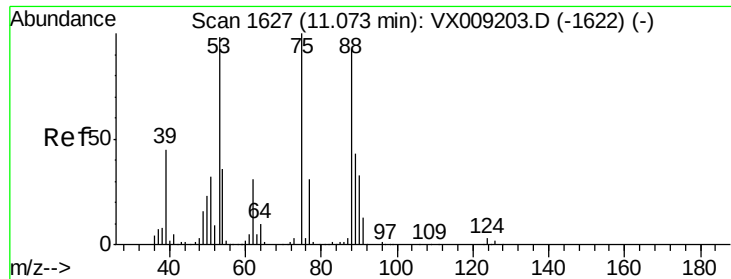
77 1.2 22.1 66.1#



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: 61.419 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009224.D

Acq: 29 Apr 2019 21:49

Instrument :

MSVOA_X

ClientSampleId :

DUP-0514-190423DL

Tgt Ion: 75 Resp: 74678

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.0 34.7 52.1#

