

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009601.D
 Acq On : 16 May 2019 12:50
 Operator : JC/SP
 Sample : K2857-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-51419

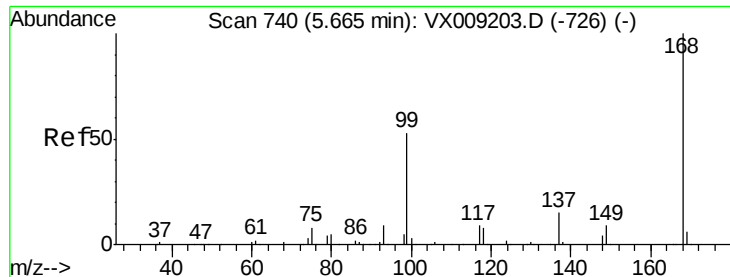
Quant Time: May 17 06:37:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	174126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277651	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	107251	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	115791	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	5.50	113	85198	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	352449	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.13	95	118300	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	457	0.209	ug/l #	48
5) Bromomethane	1.65	94	363	0.283	ug/l #	66
10) Methyl Iodide	2.51	142	270	4.723	ug/l #	60
11) Tert butyl alcohol	3.04	59	118	0.214	ug/l #	80
13) Acrolein	2.29	56	111	0.223	ug/l #	1
15) Acrylonitrile	3.15	53	353	0.262	ug/l	90
16) Acetone	2.44	43	531	0.416	ug/l #	84
17) Carbon Disulfide	2.57	76	927	0.202	ug/l #	64
28) Bromochloromethane	5.01	49	63	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	304	0.238	ug/l #	38
31) Cyclohexane	5.65	56	3698	1.052	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13826	5.358	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16182	6.903	ug/l #	16
49) 1,4-Dioxane	7.58	88	19	0.328	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	811	0.410	ug/l #	4
60) Dibromochloromethane	9.34	129	95029	49.132	ug/l #	11
64) Tetrachloroethene	9.34	164	103137	60.677	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	60834	24.453	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60834	62.565	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampleId :

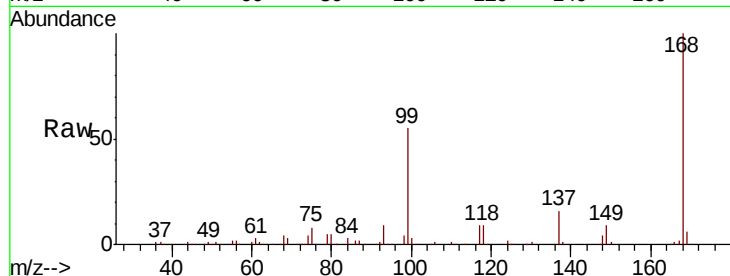
DUP-51419

Tot Ion:168 Resp: 174126

Ion Ratio Lower Upper

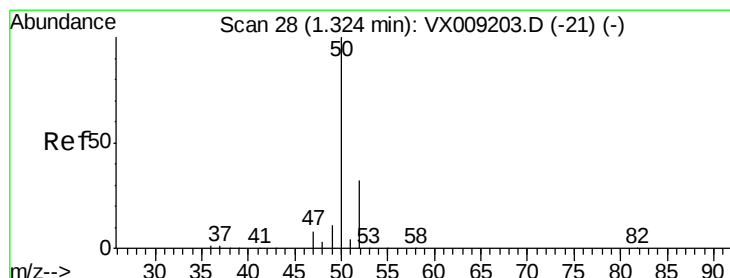
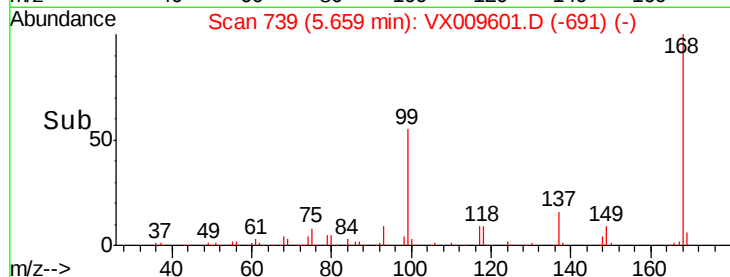
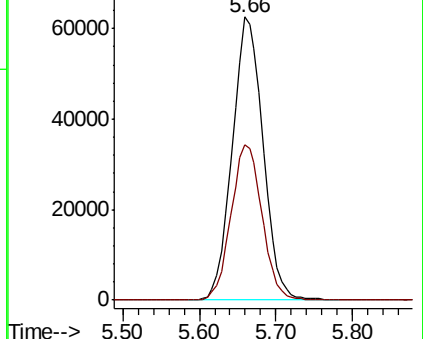
168 100

99 55.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.209 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009601.D

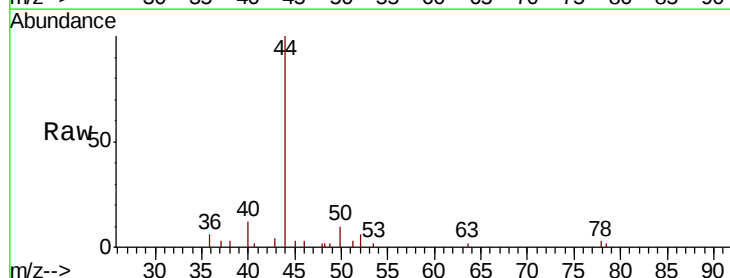
Acq: 16 May 2019 12:50

Tgt Ion: 50 Resp: 457

Ion Ratio Lower Upper

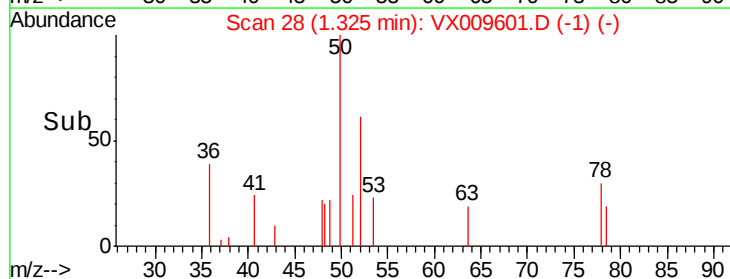
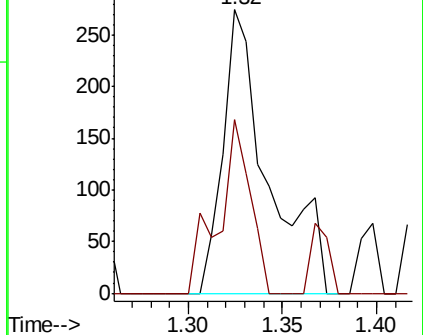
50 100

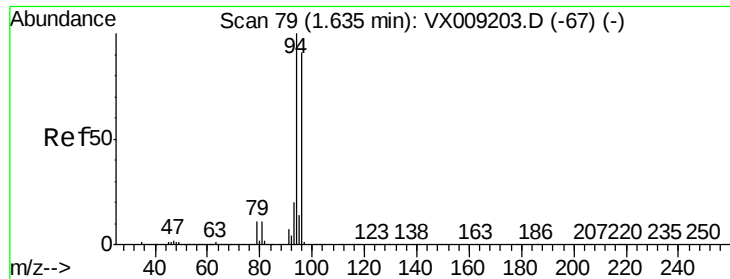
52 61.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.283 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampled :

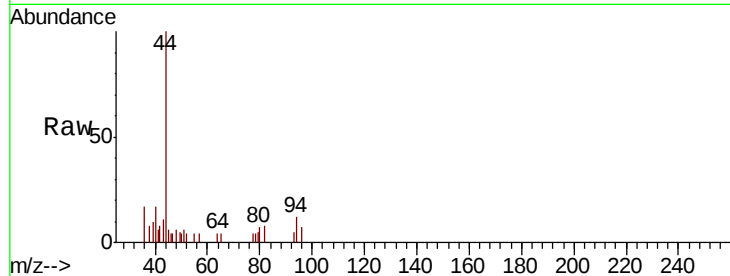
DUP-51419

Tot Ion: 94 Resp: 363

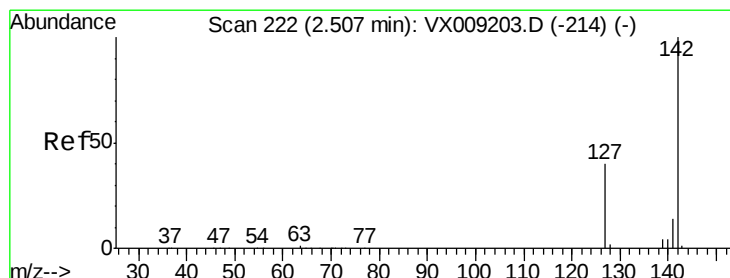
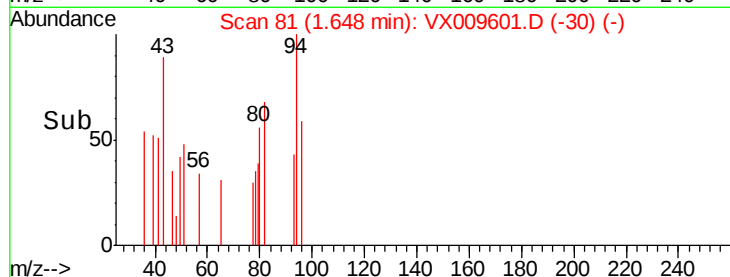
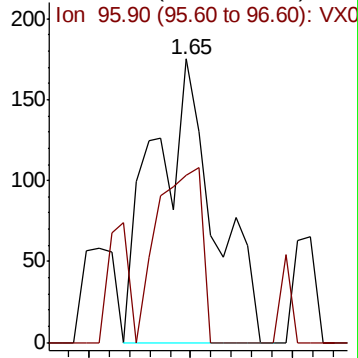
Ion Ratio Lower Upper

94 100

96 58.9 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#10

Methyl Iodide

Concen: 4.723 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

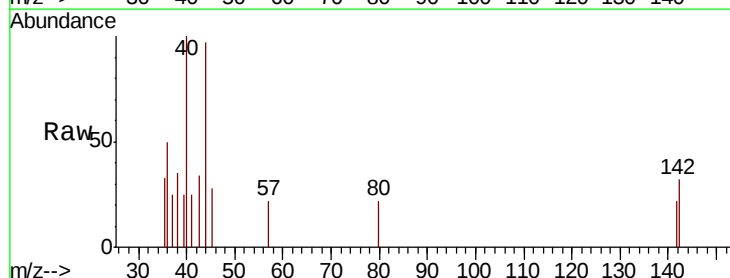
Tgt Ion: 142 Resp: 270

Ion Ratio Lower Upper

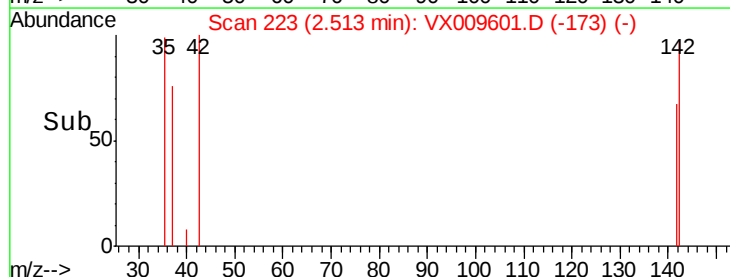
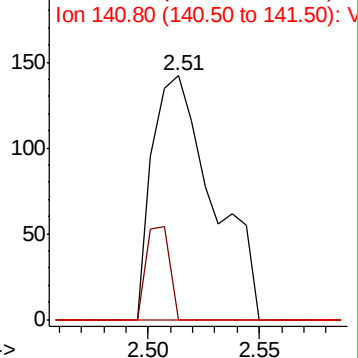
142 100

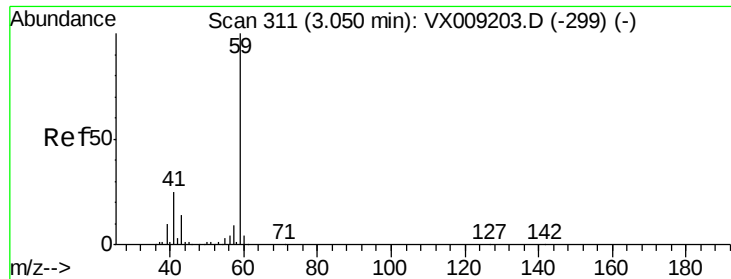
127 14.4 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

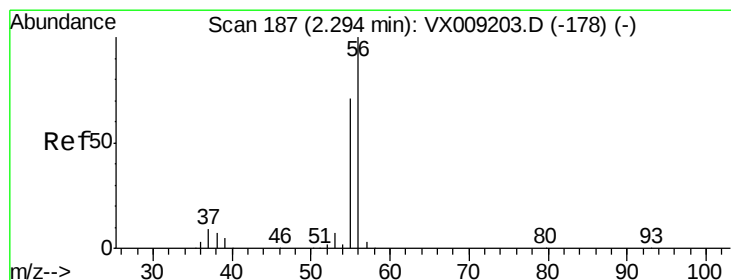
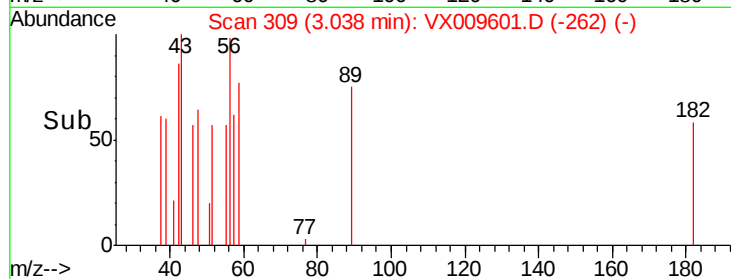
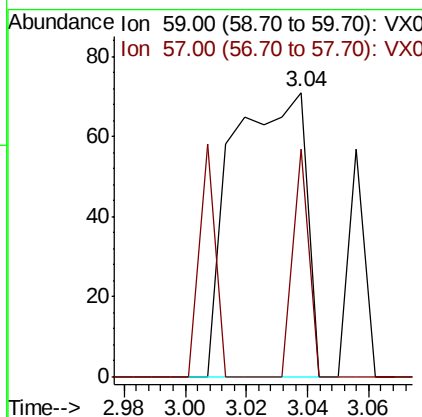
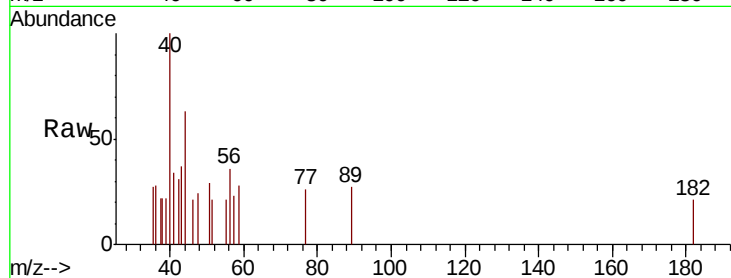




#11
Tert butyl alcohol
Concen: 0.214 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009601.D
Acq: 16 May 2019 12:50

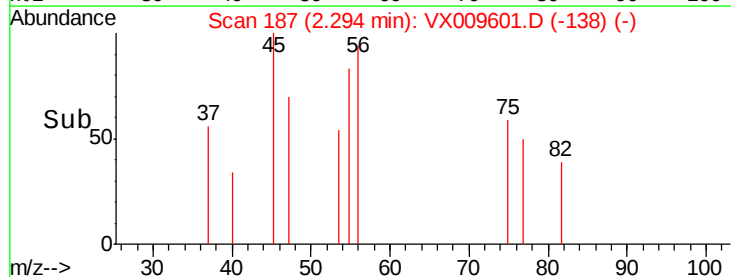
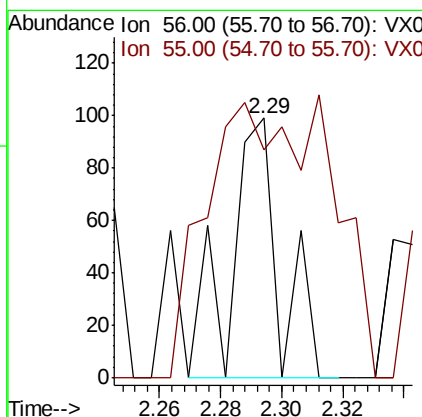
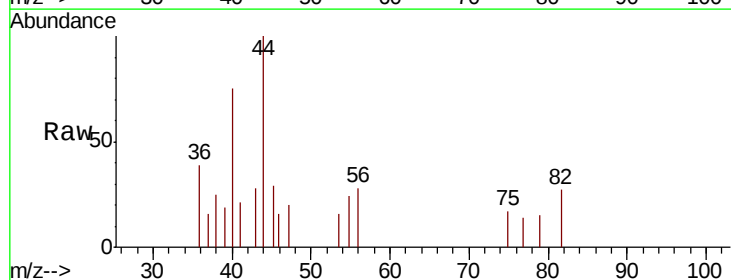
Instrument :
MSVOA_X
ClientSampleID :
DUP-51419

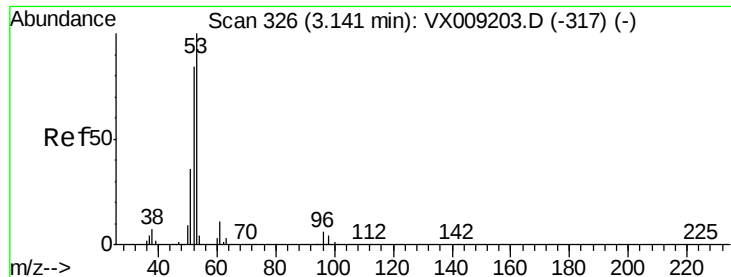
Tot Ion: 59 Resp: 118
Ion Ratio Lower Upper
59 100
57 17.8 8.2 12.2#



#13
Acrolein
Concen: 0.223 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX009601.D
Acq: 16 May 2019 12:50

Tgt Ion: 56 Resp: 111
Ion Ratio Lower Upper
56 100
55 266.7 56.6 85.0#





#15

Acrylonitrile

Concen: 0.262 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampled :

DUP-51419

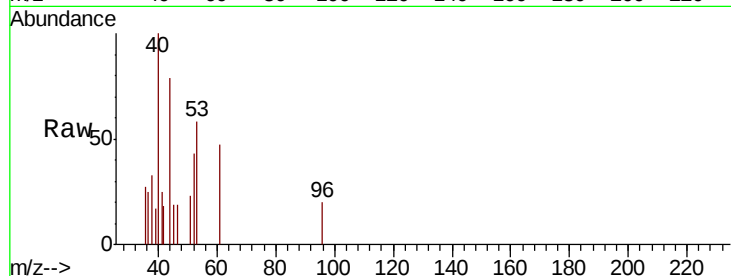
Tot Ion: 53 Resp: 353

Ion Ratio Lower Upper

53 100

52 92.9 66.9 100.3

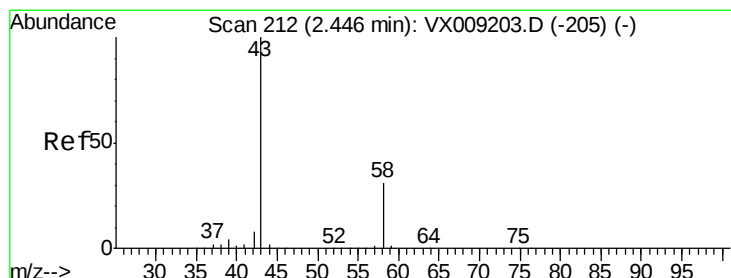
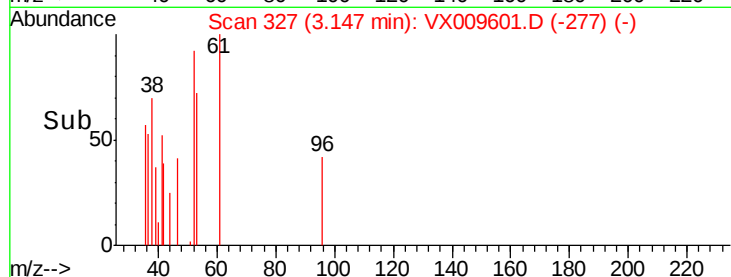
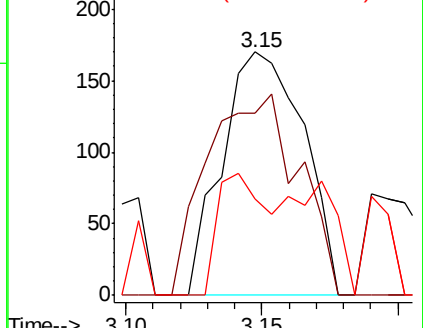
51 29.7 28.2 42.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.416 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009601.D

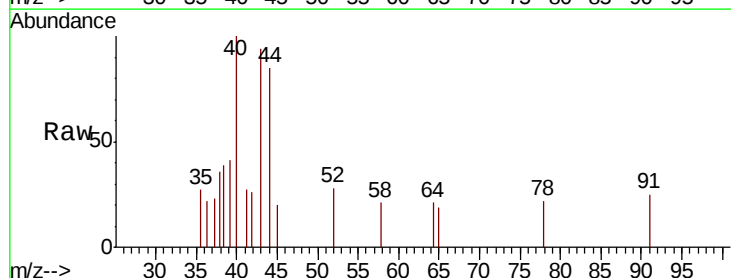
Acq: 16 May 2019 12:50

Tgt Ion: 43 Resp: 531

Ion Ratio Lower Upper

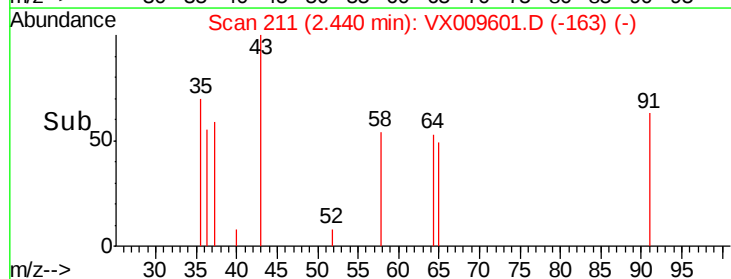
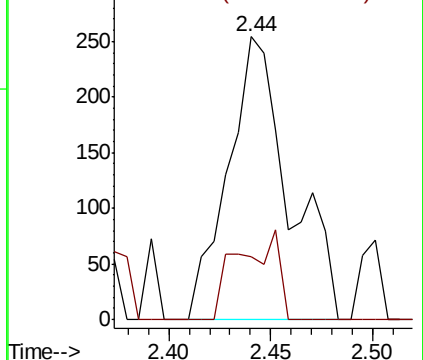
43 100

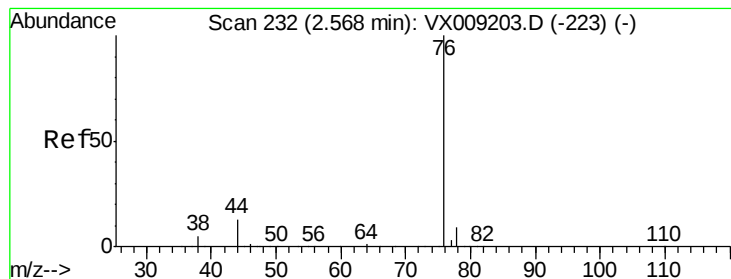
58 22.4 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.202 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampleId :

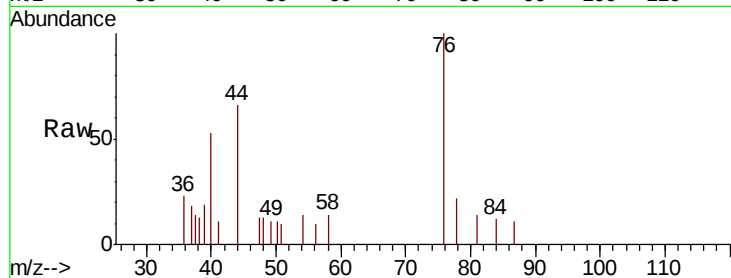
DUP-51419

Tot Ion: 76 Resp: 927

Ion Ratio Lower Upper

76 100

78 22.4 7.4 11.0#

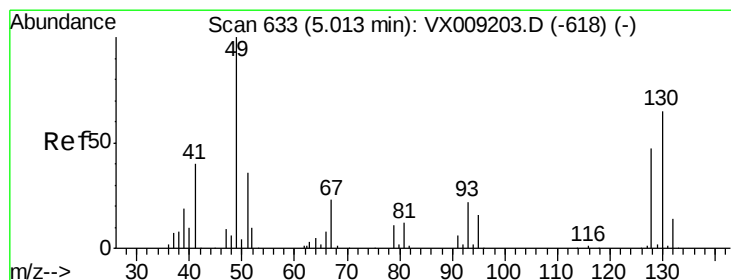
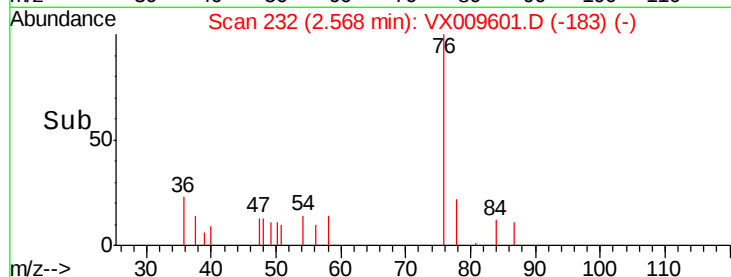


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

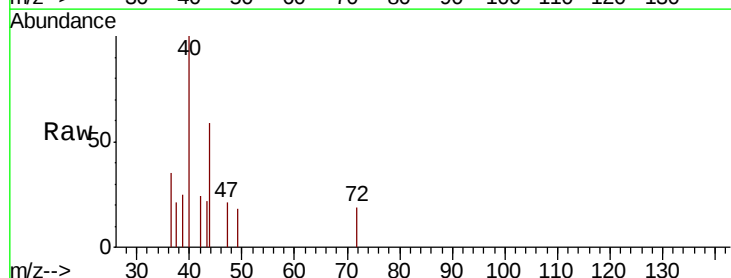
Tgt Ion: 49 Resp: 63

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



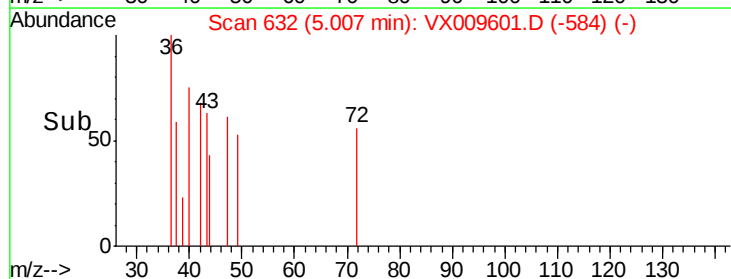
Abundance Ion 48.90 (48.60 to 49.60): VX0

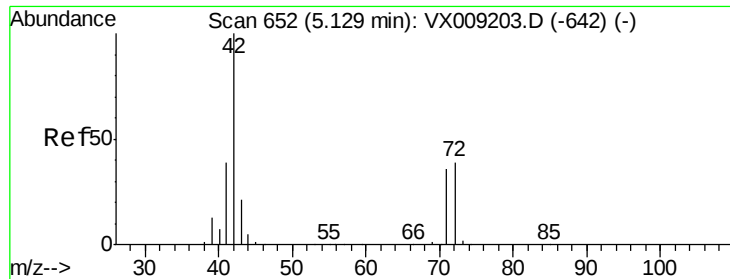
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01

Time-->

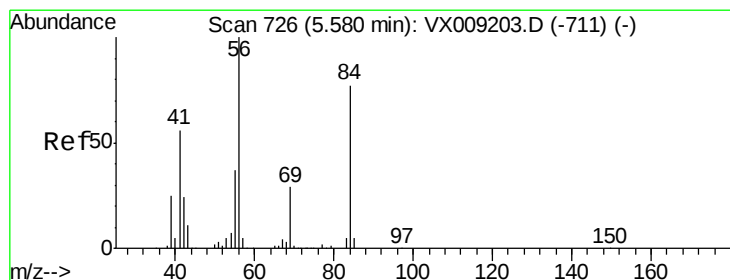
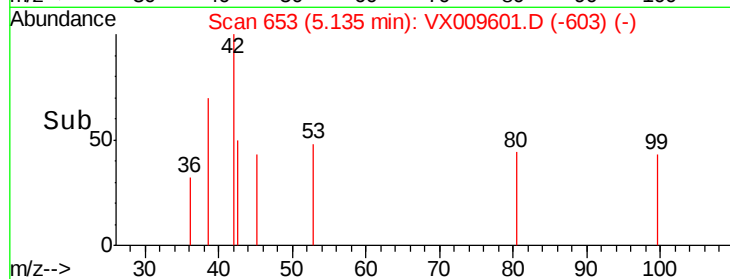
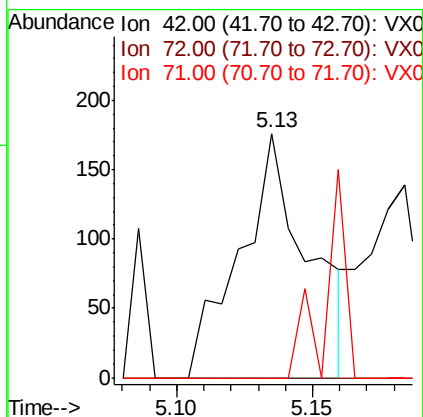
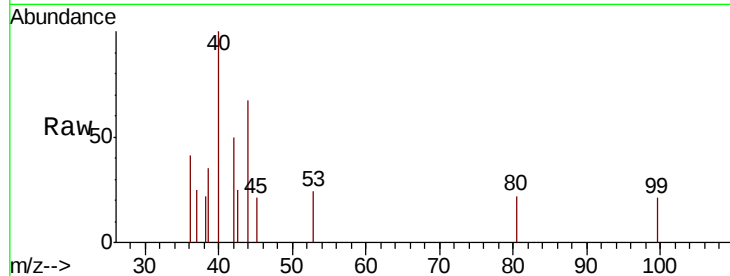




#29
Tetrahydrofuran
Concen: 0.238 ug/l
RT: 5.13 min Scan# 653
Delta R.T. 0.01 min
Lab File: VX009601.D
Acq: 16 May 2019 12:50

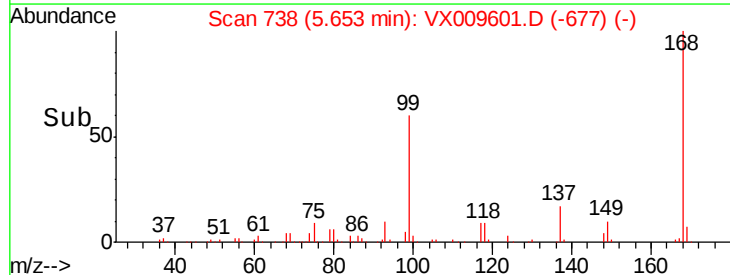
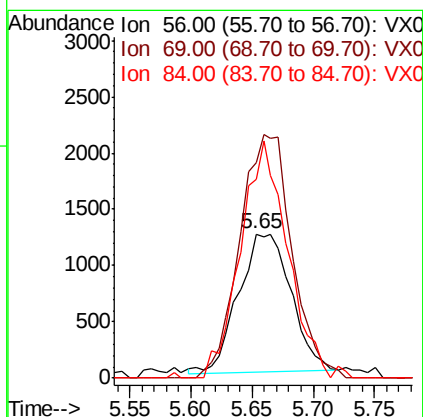
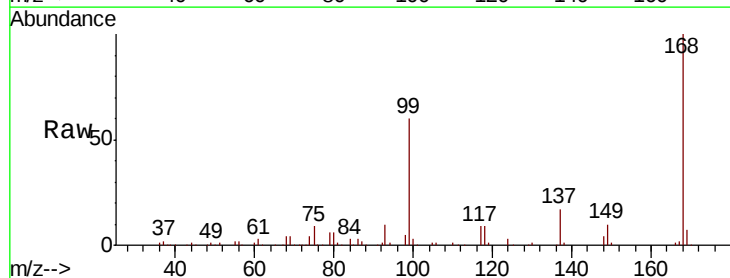
Instrument :
MSVOA_X
ClientSampled :
DUP-51419

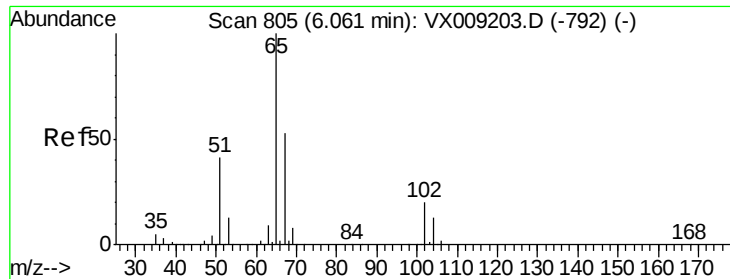
Tot Ion: 42 Resp: 304
Ion Ratio Lower Upper
42 100
72 0.0 30.4 45.6#
71 0.0 28.6 43.0#



#31
Cyclohexane
Concen: 1.052 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009601.D
Acq: 16 May 2019 12:50

Tgt Ion: 56 Resp: 3698
Ion Ratio Lower Upper
56 100
69 157.1 23.4 35.0#
84 144.9 61.9 92.9#





#33

1,2-Dichloroethane-d4

Concen: 48.713 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampleId :

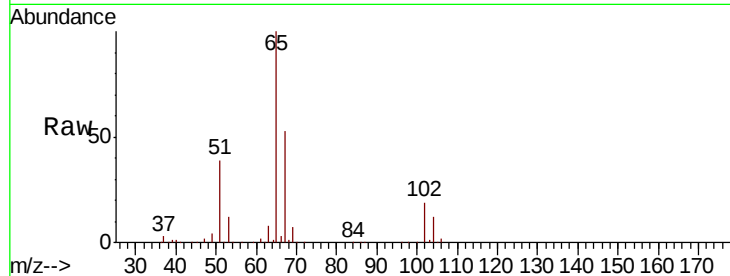
DUP-51419

Tot Ion: 65 Resp: 115791

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

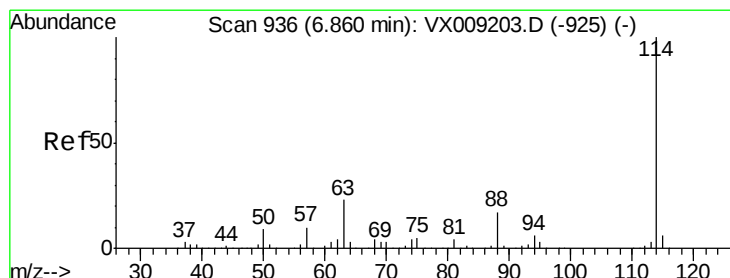
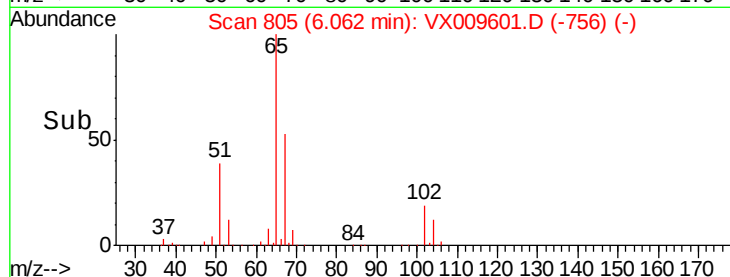
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

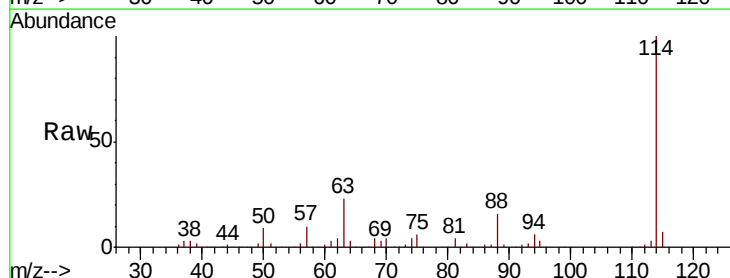
Tgt Ion: 114 Resp: 277651

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.6

88 16.4 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

150000

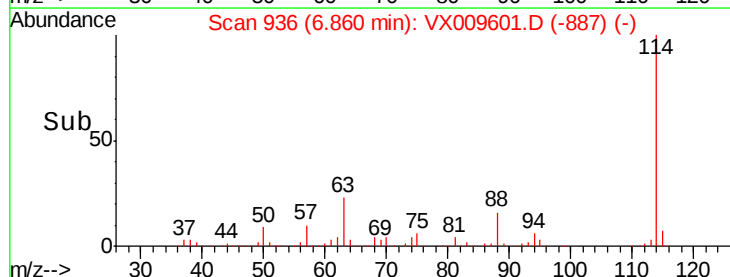
100000

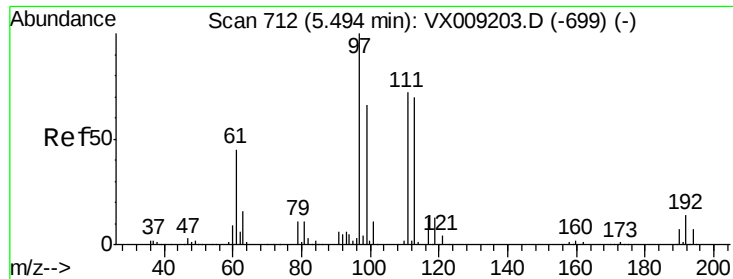
50000

0

Time-->

6.70 6.80 6.90 7.00

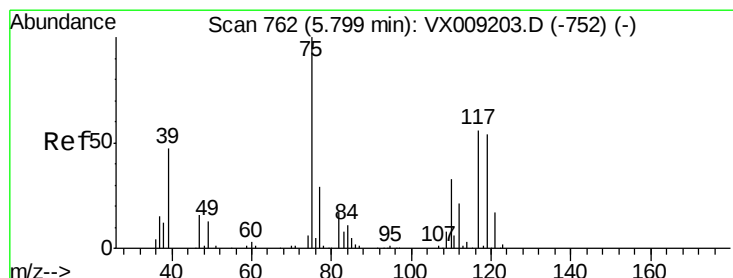
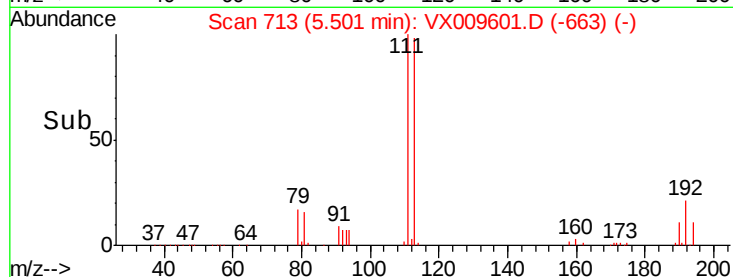
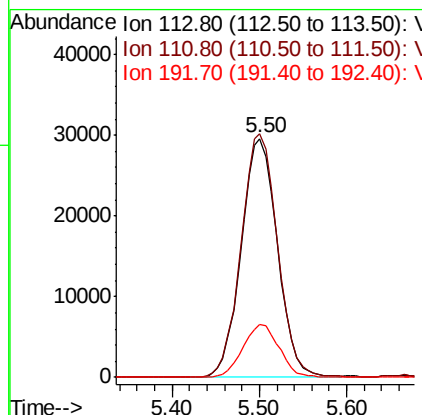
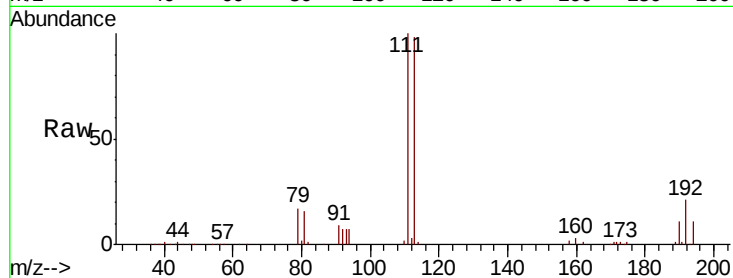




#35
 Dibromofluoromethane
 Concen: 48.812 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009601.D
 Acq: 16 May 2019 12:50

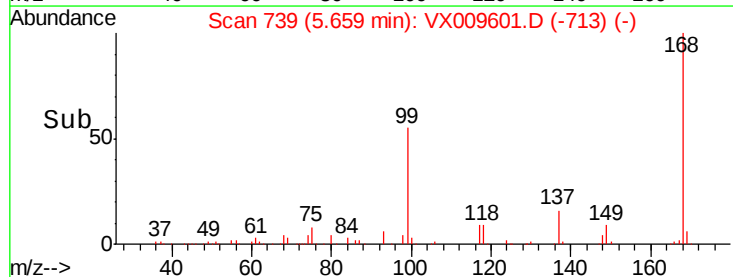
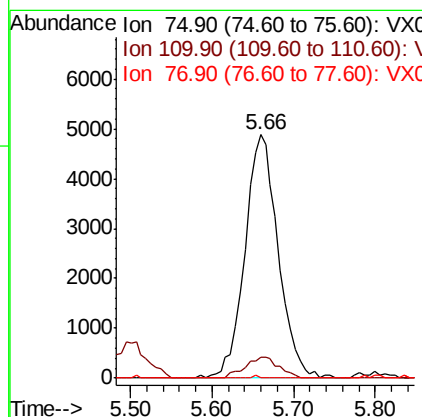
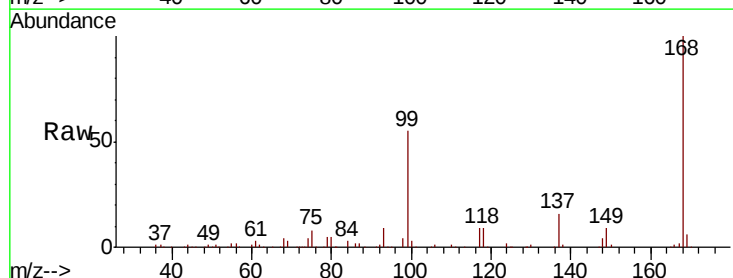
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-51419

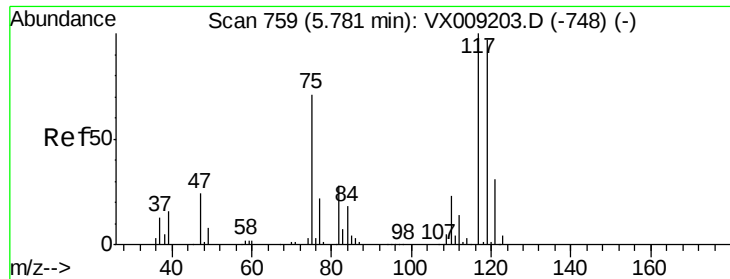
Tot Ion:113 Resp: 85198
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.8 124.2
 192 22.1 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.358 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009601.D
 Acq: 16 May 2019 12:50

Tgt Ion: 75 Resp: 13826
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.6#
 77 0.1 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.903 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampleId :

DUP-51419

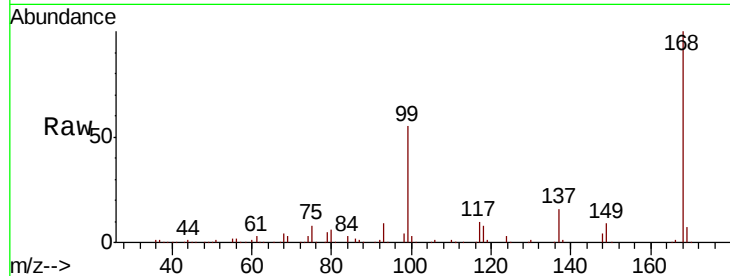
Tot Ion: 117 Resp: 16182

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

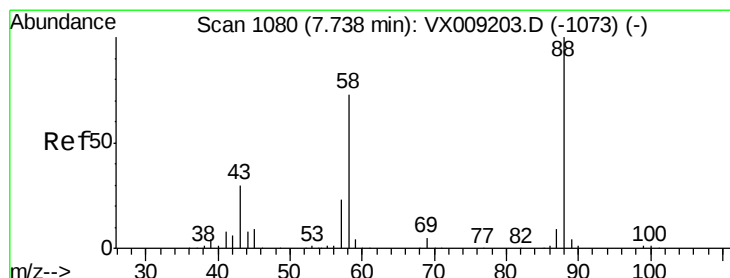
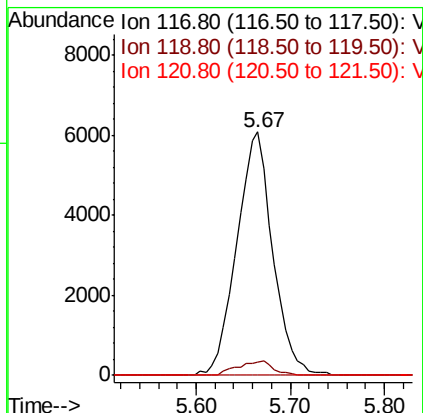
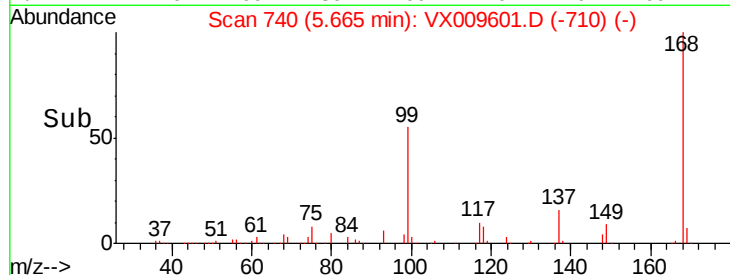
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.328 ug/l

RT: 7.58 min Scan# 1054

Delta R.T. -0.16 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

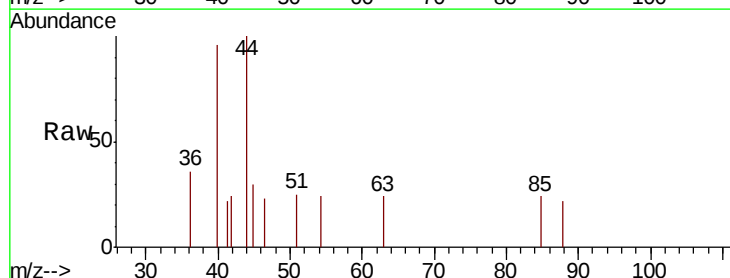
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 157.9 28.6 42.8#

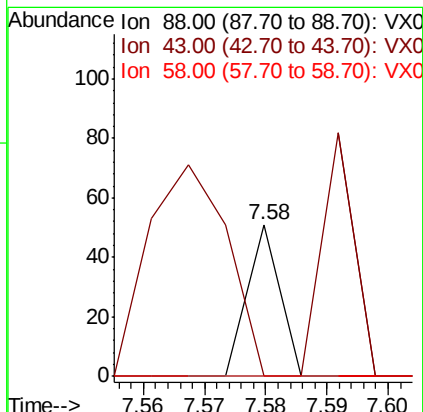
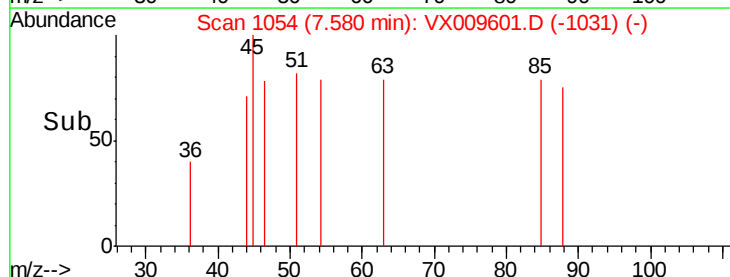
58 0.0 61.7 92.5#

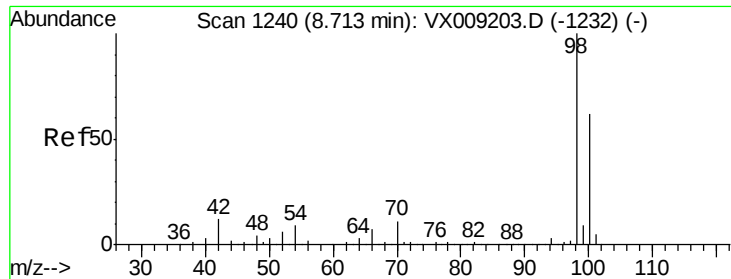


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.016 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampled :

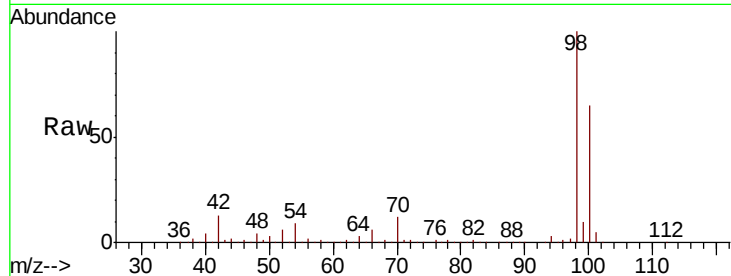
DUP-51419

Tot Ion: 98 Resp: 352449

Ion Ratio Lower Upper

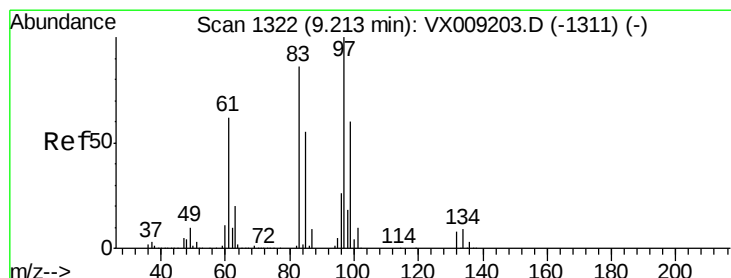
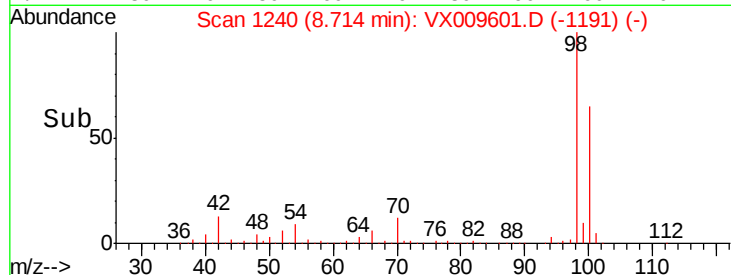
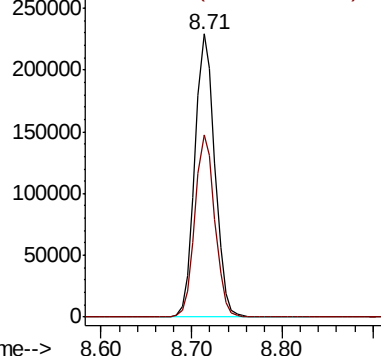
98 100

100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#55

1,1,2-Trichloroethane

Concen: 0.410 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Tgt Ion: 97 Resp: 811

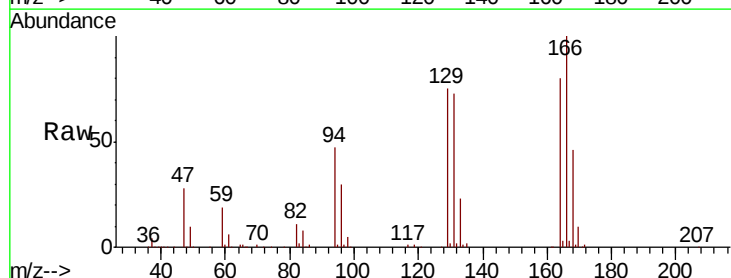
Ion Ratio Lower Upper

97 100

83 262.3 68.9 103.3#

85 52.8 43.8 65.6

99 27.2 48.2 72.2#

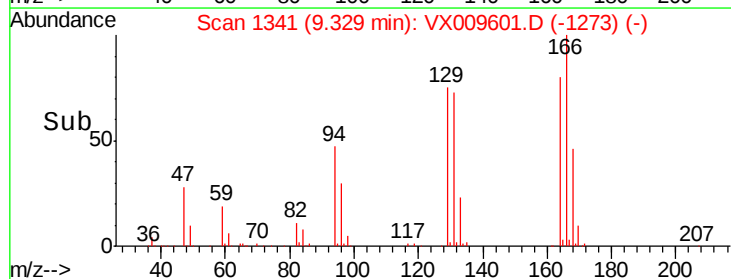
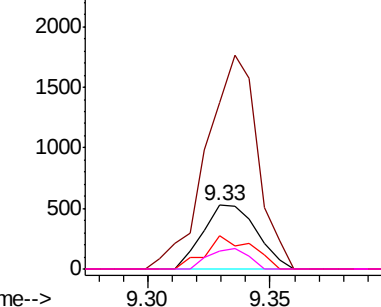


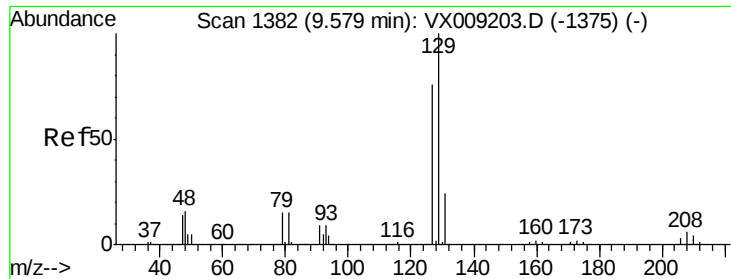
Abundance Ion 96.90 (96.60 to 97.60): VX0

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

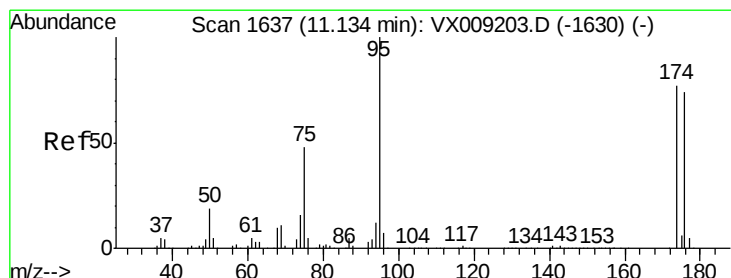
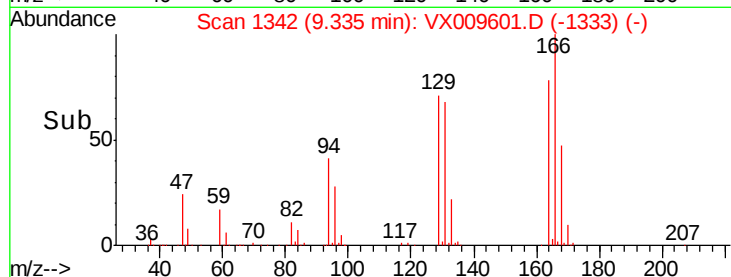
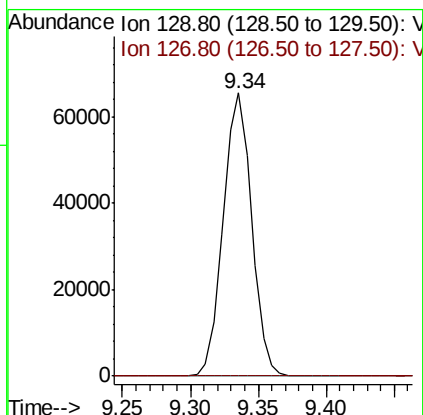
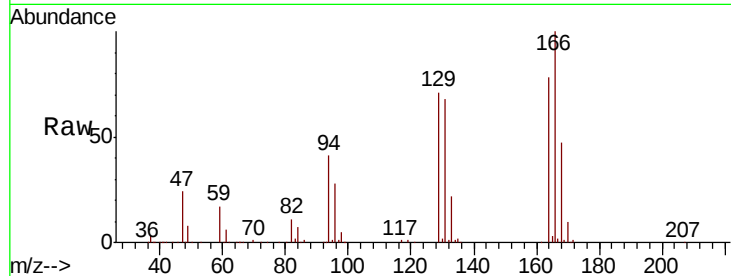




#60
 Dibromochloromethane
 Concen: 49.132 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009601.D
 Acq: 16 May 2019 12:50

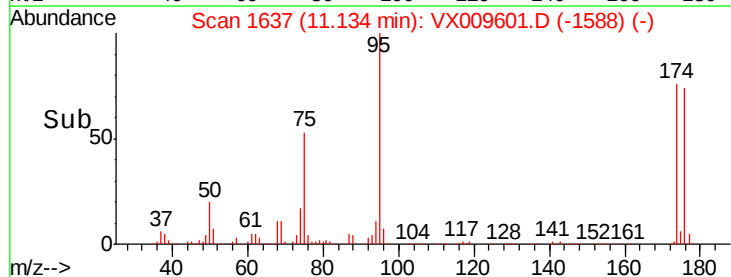
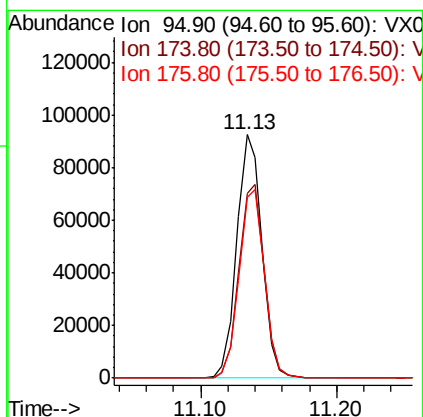
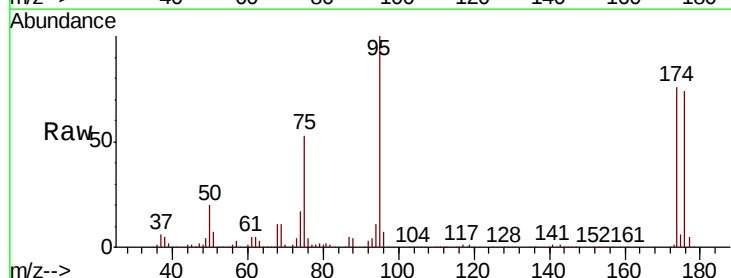
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-51419

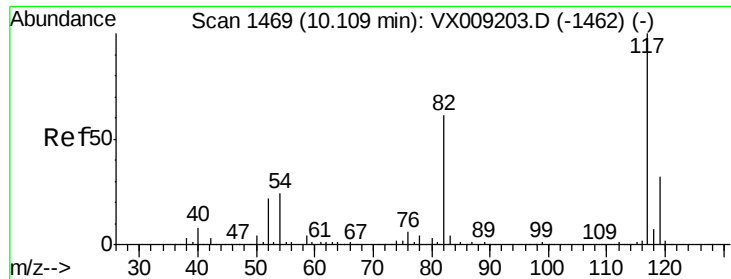
Tot Ion:129 Resp: 95029
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.4 115.1#



#62
 4-Bromofluorobenzene
 Concen: 46.202 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009601.D
 Acq: 16 May 2019 12:50

Tgt Ion: 95 Resp: 118300
 Ion Ratio Lower Upper
 95 100
 174 80.8 0.0 161.6
 176 78.6 0.0 159.2

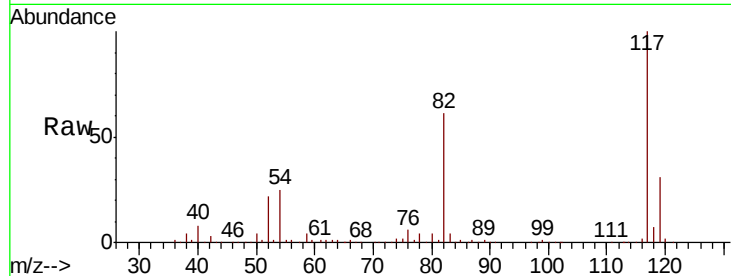




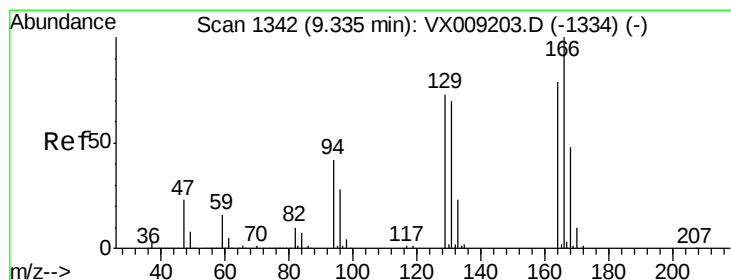
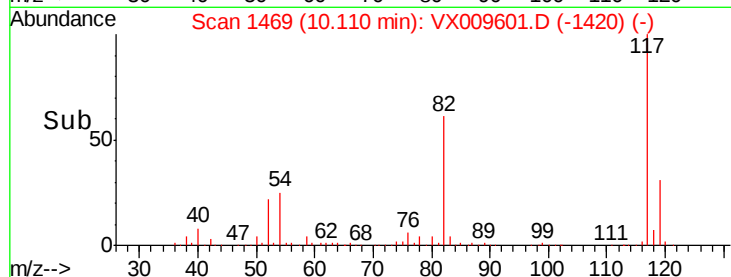
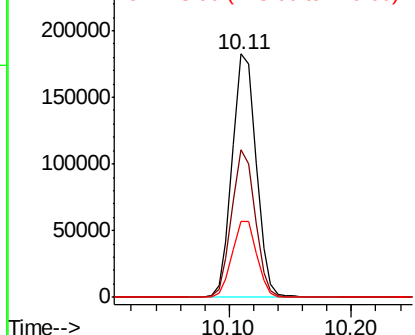
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009601.D
Acq: 16 May 2019 12:50

Instrument :
MSVOA_X
ClientSampled :
DUP-51419

Tot Ion:117 Resp: 247796
Ion Ratio Lower Upper
117 100
82 60.6 48.8 73.2
119 31.4 25.8 38.6

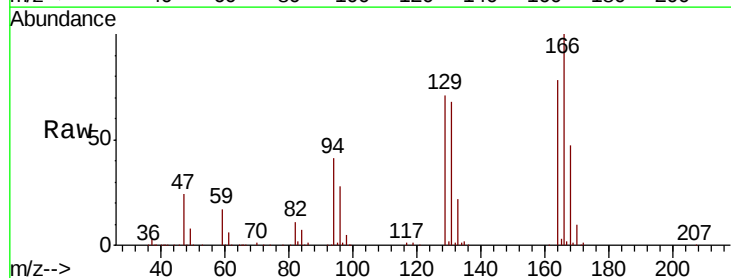


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

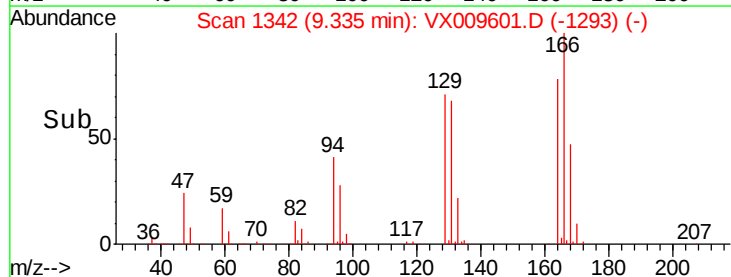
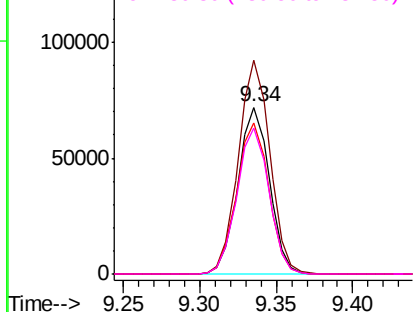


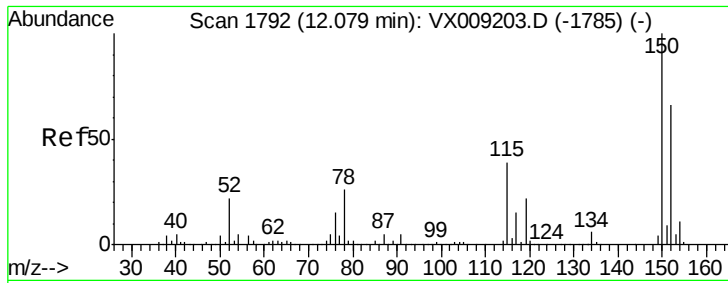
#64
Tetrachloroethene
Concen: 60.677 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009601.D
Acq: 16 May 2019 12:50

Tgt Ion:164 Resp: 103137
Ion Ratio Lower Upper
164 100
166 128.3 101.2 151.8
129 91.1 74.3 111.5
131 87.7 71.0 106.6



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: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampled :

DUP-51419

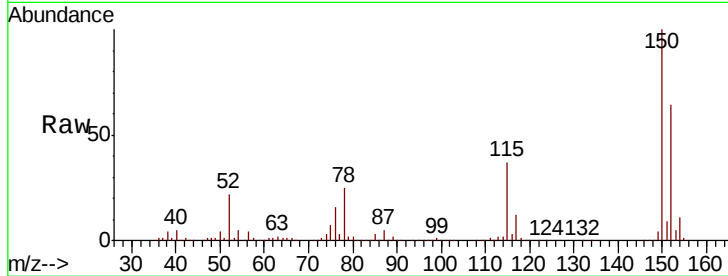
Tot Ion:152 Resp: 107251

Ion Ratio Lower Upper

152 100

115 58.9 41.2 123.6

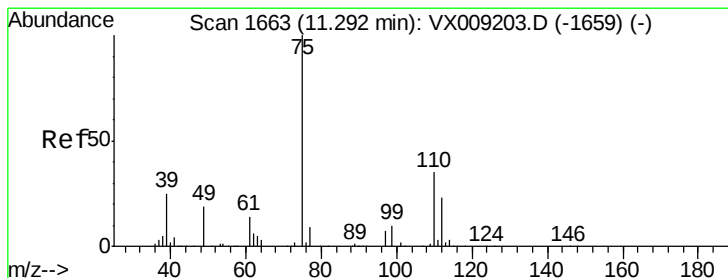
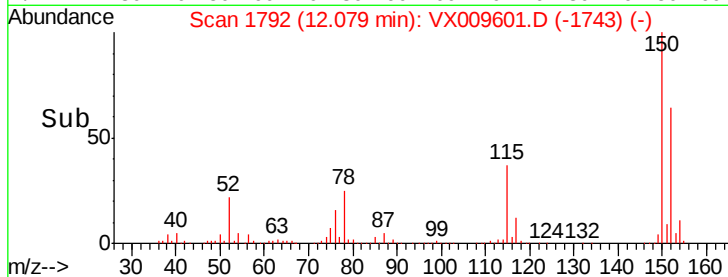
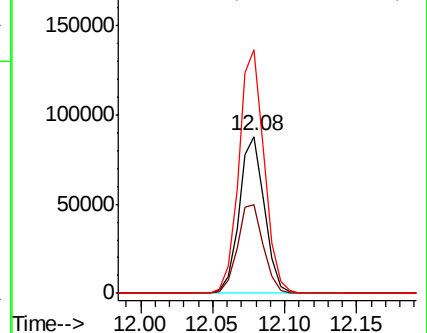
150 156.1 0.0 346.4



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: 24.453 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009601.D

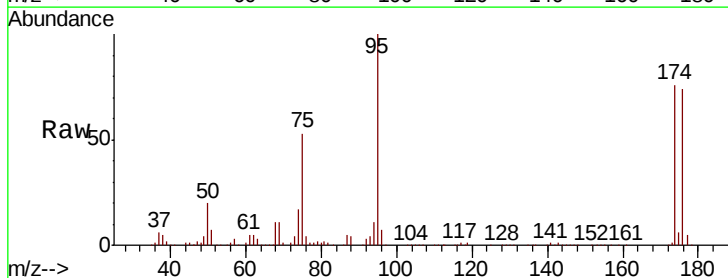
Acq: 16 May 2019 12:50

Tgt Ion: 75 Resp: 60834

Ion Ratio Lower Upper

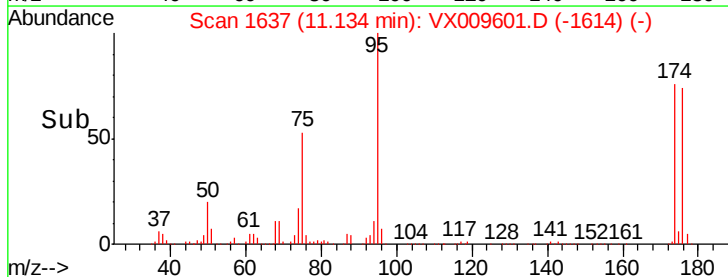
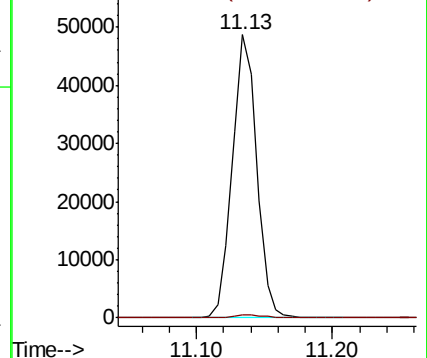
75 100

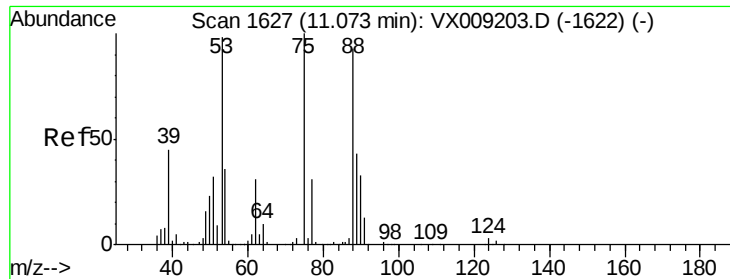
77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.565 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009601.D

Acq: 16 May 2019 12:50

Instrument :

MSVOA_X

ClientSampleId :

DUP-51419

Tot Ion: 75 Resp: 60834

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

