

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013631.D
 Acq On : 27 Nov 2019 04:38
 Operator : JC/SP
 Sample : K5968-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01-20191121

Quant Time: Nov 27 06:22:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	657410	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1052968	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	936665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	420963	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	390467	51.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.34%	
35) Dibromofluoromethane	5.49	113	317114	48.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.44%	
50) Toluene-d8	8.71	98	1266309	49.93	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.14	95	418093	45.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.44%	

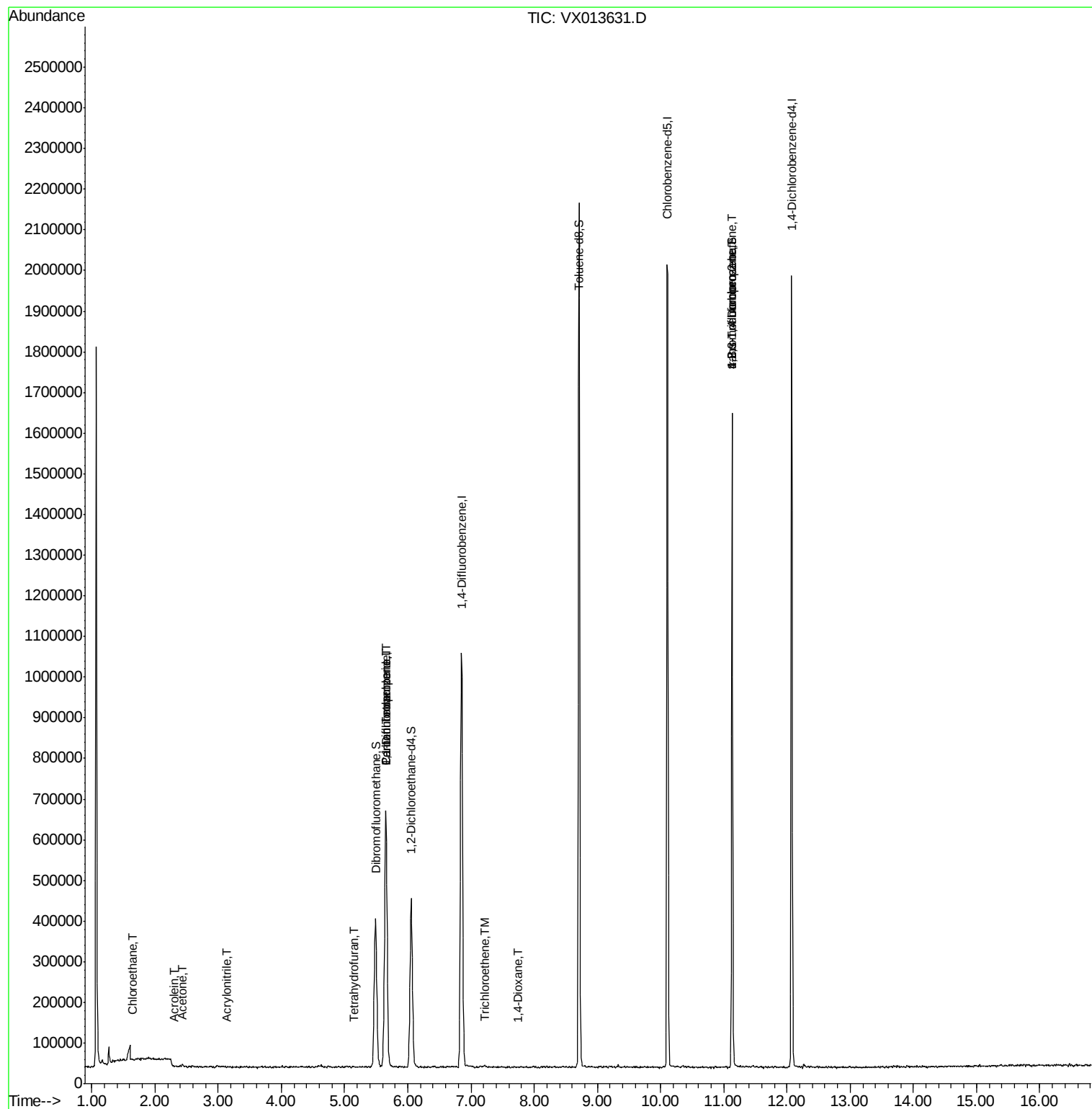
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.64	64	1733	0.330	ug/l #	68
13) Acrolein	2.30	56	330	6.259	ug/l #	1
15) Acrylonitrile	3.14	53	866	0.223	ug/l #	17
16) Acetone	2.43	43	5923	1.572	ug/l	96
29) Tetrahydrofuran	5.14	42	1004	0.291	ug/l #	78
36) 1,1-Dichloropropene	5.65	75	43689	4.571	ug/l #	53
38) Carbon Tetrachloride	5.65	117	56214	6.378	ug/l #	15
44) Trichloroethene	7.22	130	3047	0.381	ug/l	69
49) 1,4-Dioxane	7.75	88	326	1.698	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	203938	21.539	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	203938	58.928	ug/l #	11

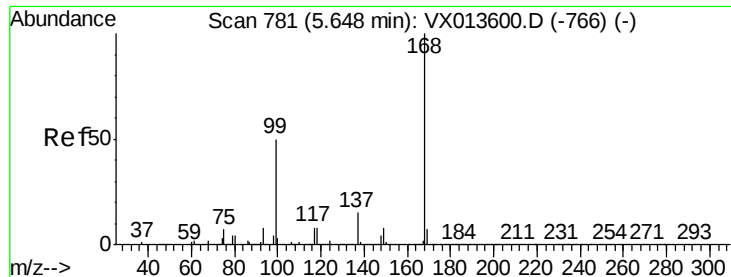
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

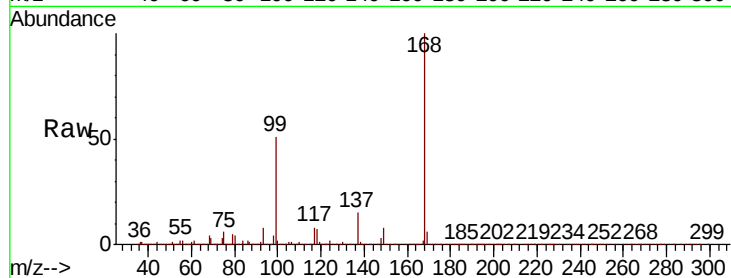
DUP-01-20191121

Tot Ion:168 Resp: 657410

Ion Ratio Lower Upper

168 100

99 50.6 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

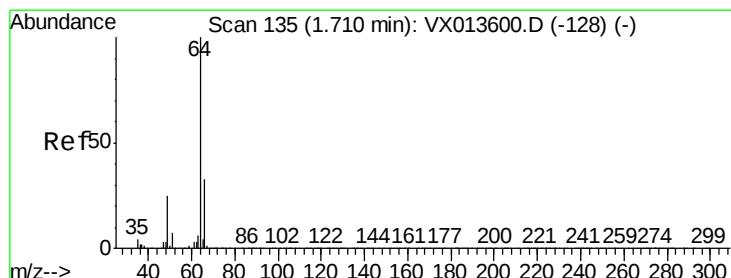
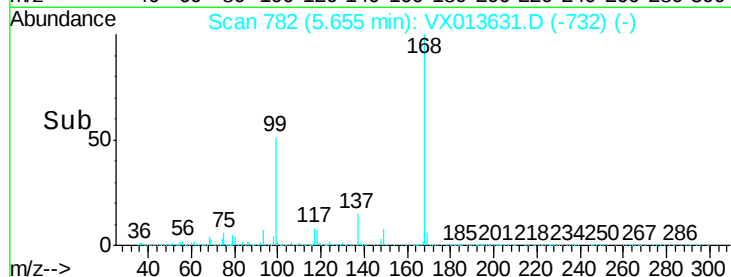
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.330 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.07 min

Lab File: VX013631.D

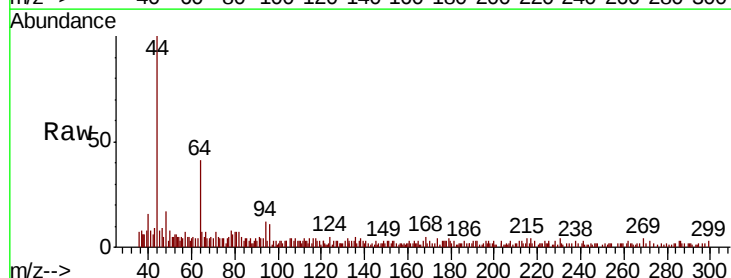
Acq: 27 Nov 2019 04:38

Tgt Ion: 64 Resp: 1733

Ion Ratio Lower Upper

64 100

66 15.1 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

3000

2500

2000

1500

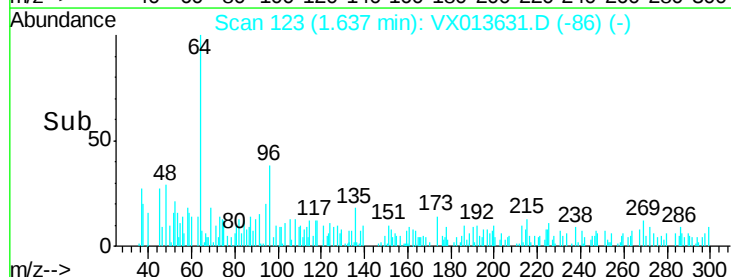
1000

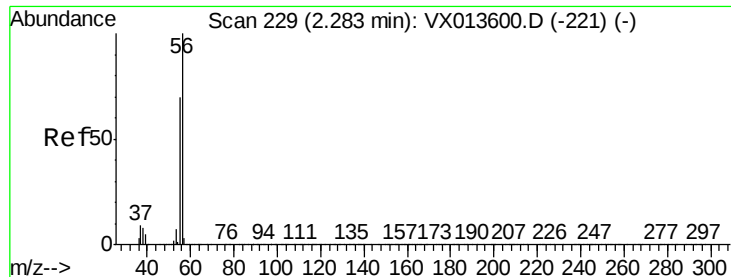
500

0

Time-->

1.60 1.62 1.64 1.66





#13

Acrolein

Concen: 6.259 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

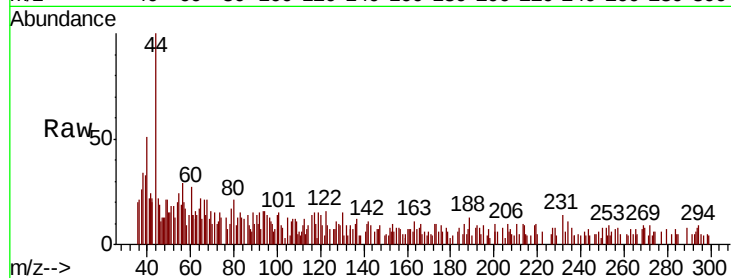
DUP-01-20191121

Tot Ion: 56 Resp: 330

Ion Ratio Lower Upper

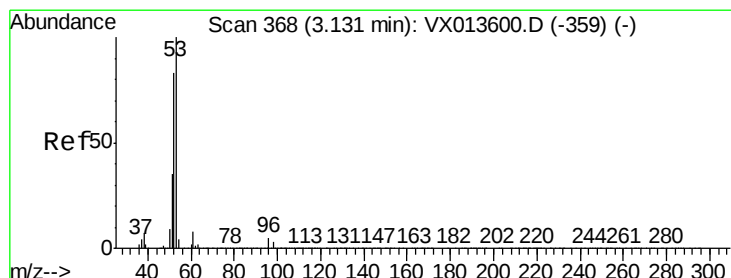
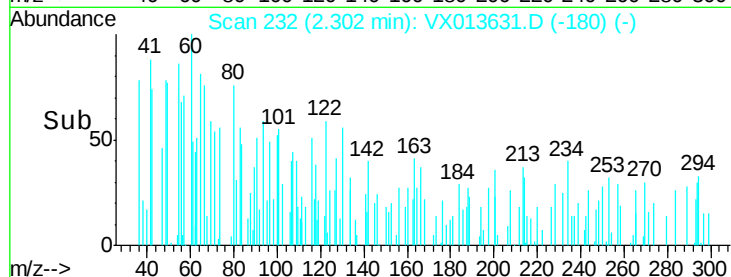
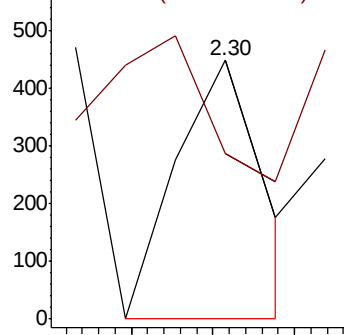
56 100

55 261.8 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.223 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

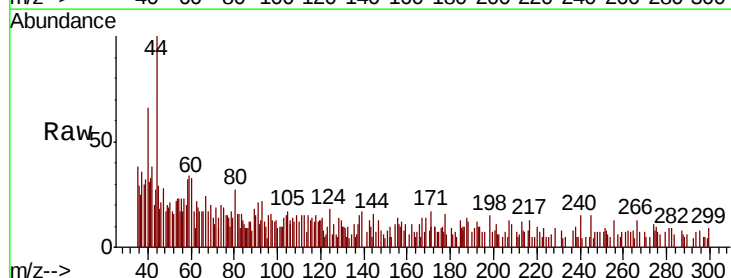
Tgt Ion: 53 Resp: 866

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

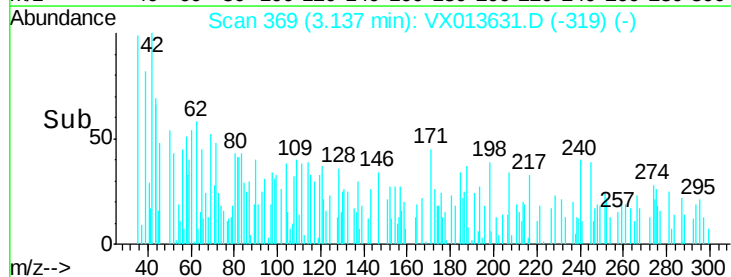
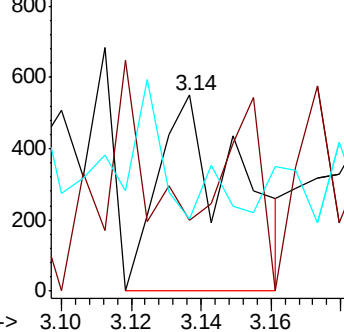
51 0.0 29.0 43.6#

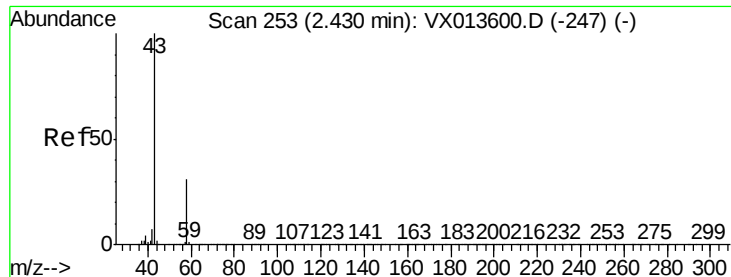


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

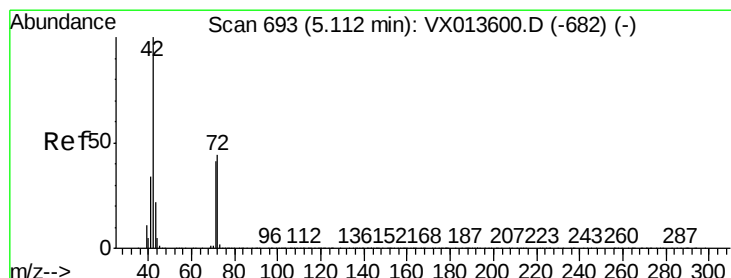
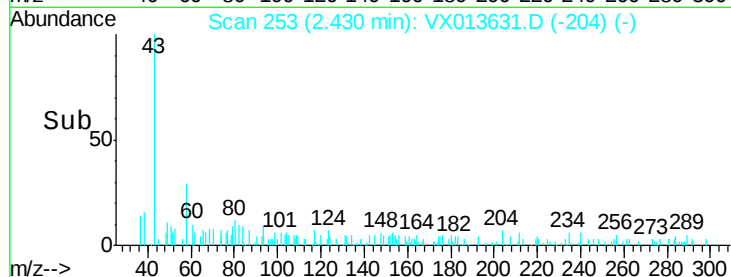
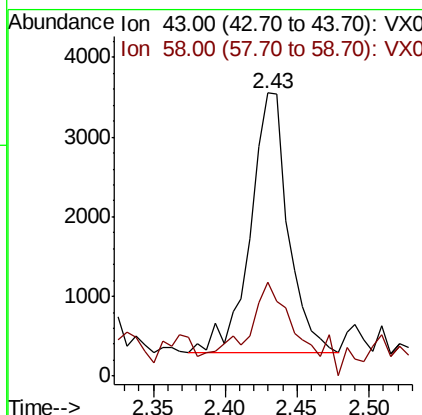
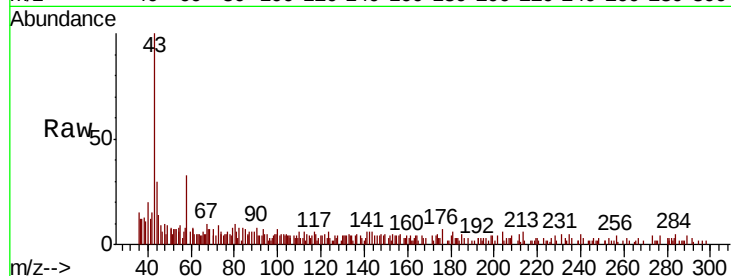




#16
Acetone
Concen: 1.572 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013631.D
Acq: 27 Nov 2019 04:38

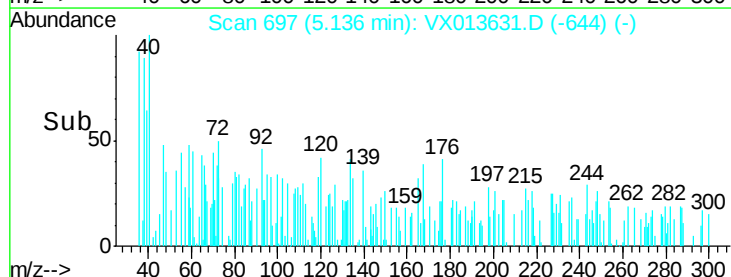
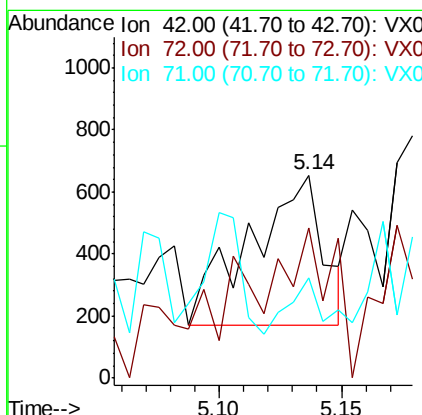
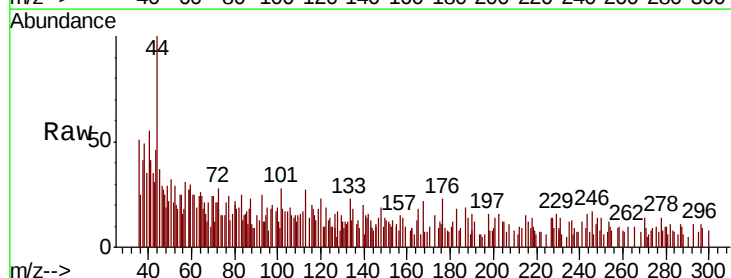
Instrument :
MSVOA_X
ClientSampleId :
DUP-01-20191121

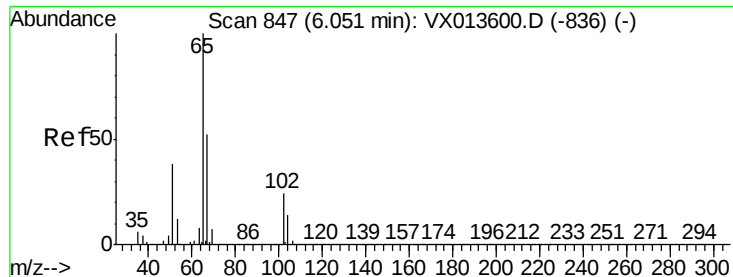
Tot Ion: 43 Resp: 5923
Ion Ratio Lower Upper
43 100
58 28.6 24.6 36.8



#29
Tetrahydrofuran
Concen: 0.291 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX013631.D
Acq: 27 Nov 2019 04:38

Tgt Ion: 42 Resp: 1004
Ion Ratio Lower Upper
42 100
72 67.7 36.3 54.5#
71 35.8 33.2 49.8





#33

1,2-Dichloroethane-d4

Concen: 51.168 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

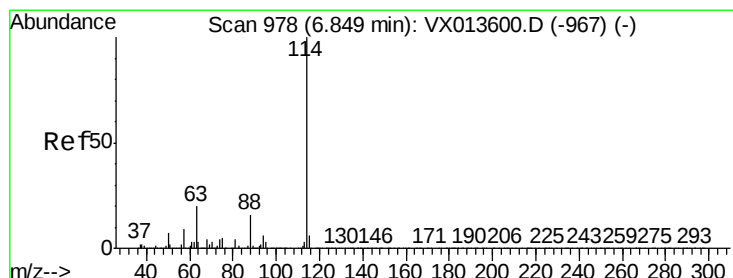
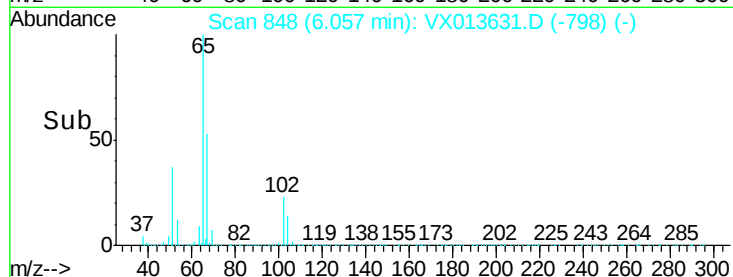
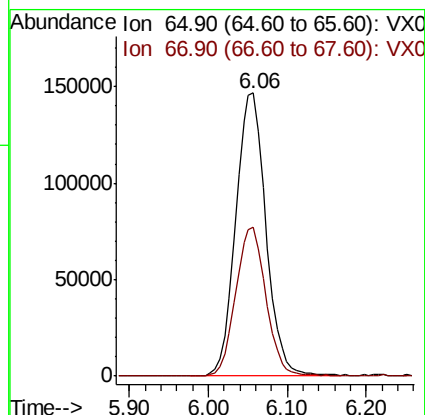
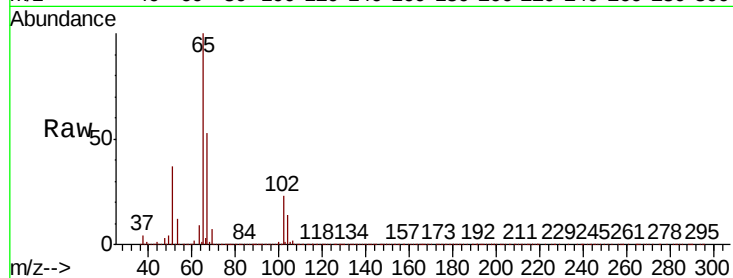
DUP-01-20191121

Tot Ion: 65 Resp: 390467

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

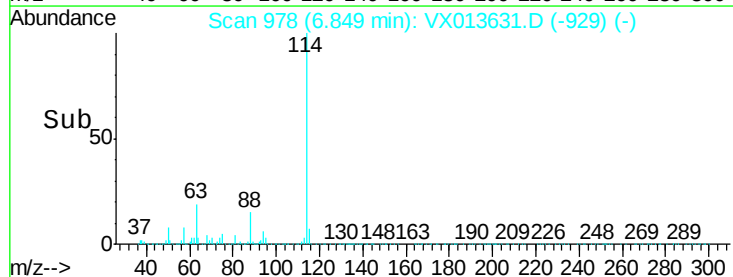
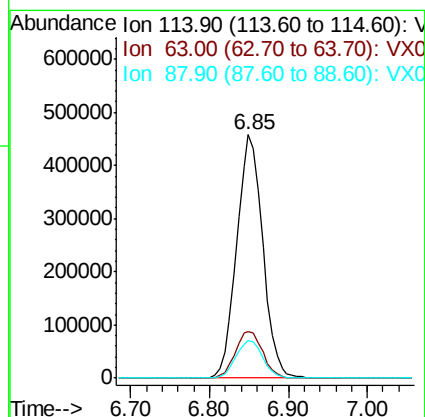
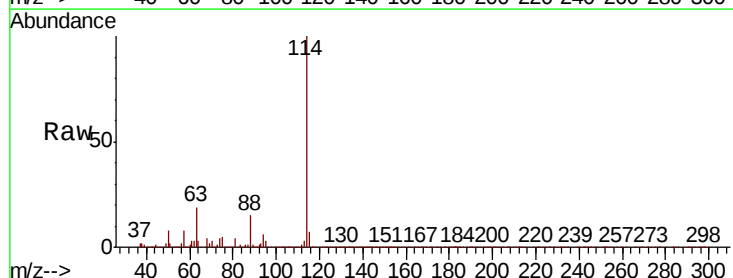
Tgt Ion: 114 Resp: 1052968

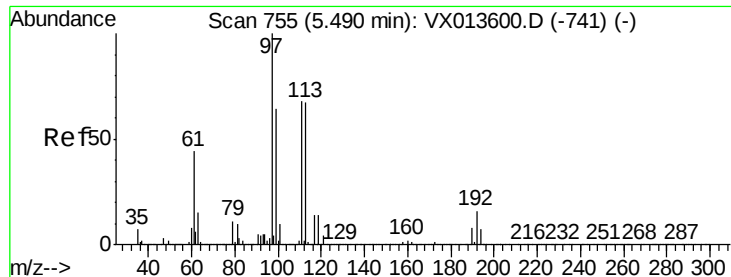
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.715 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20191121

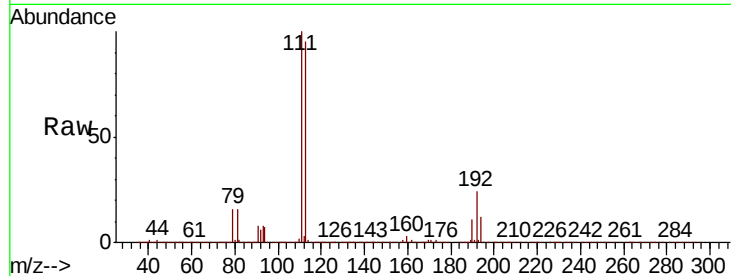
Tot Ion:113 Resp: 317114

Ion Ratio Lower Upper

113 100

111 102.1 83.6 125.4

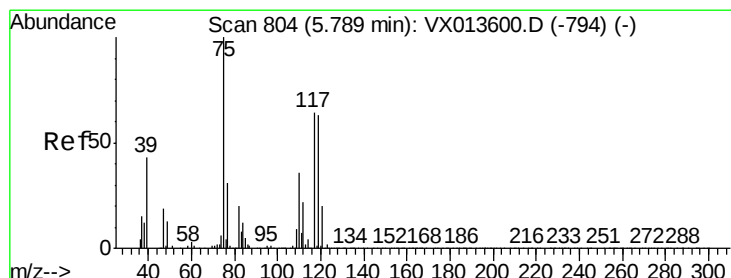
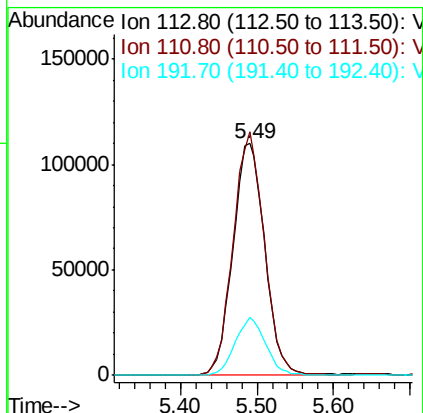
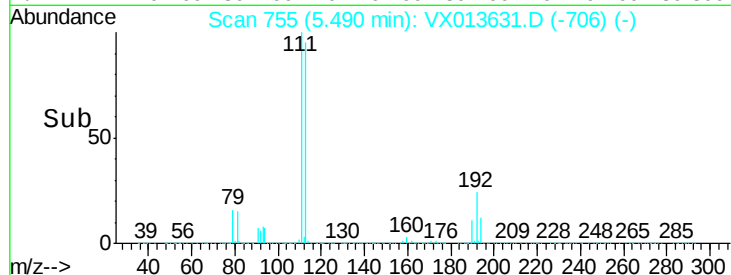
192 23.9 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.571 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

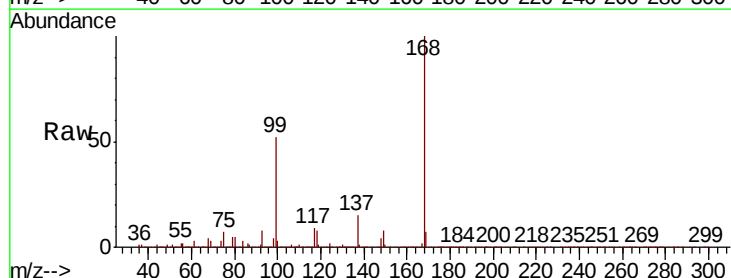
Tgt Ion: 75 Resp: 43689

Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.1#

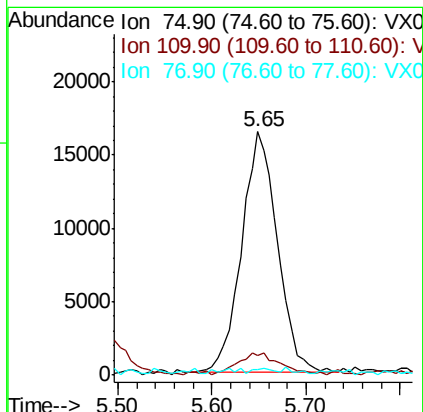
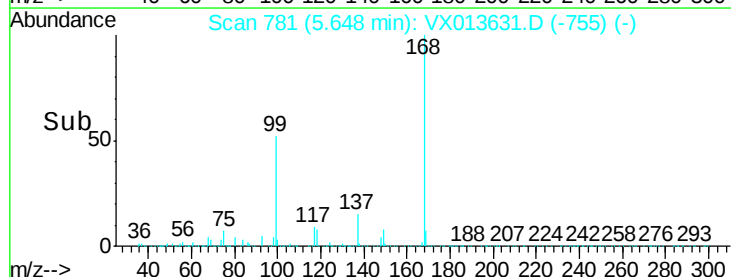
77 1.4 24.5 36.7#

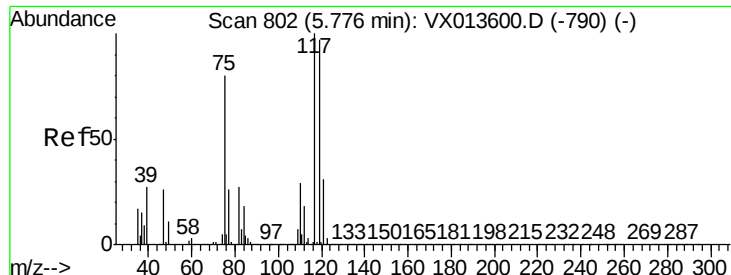


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.378 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

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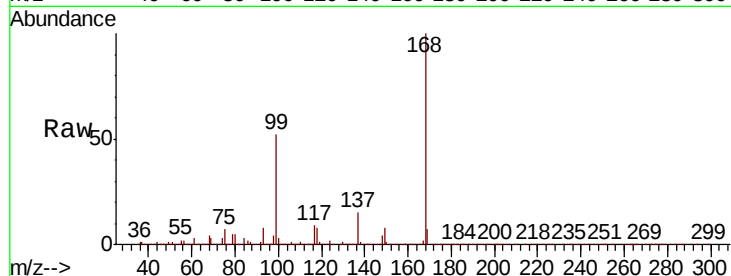
Tot Ion:117 Resp: 56214

Ion Ratio Lower Upper

117 100

119 4.7 77.5 116.3#

121 0.0 25.0 37.6#



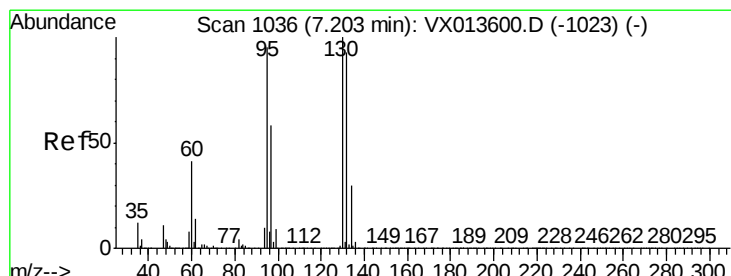
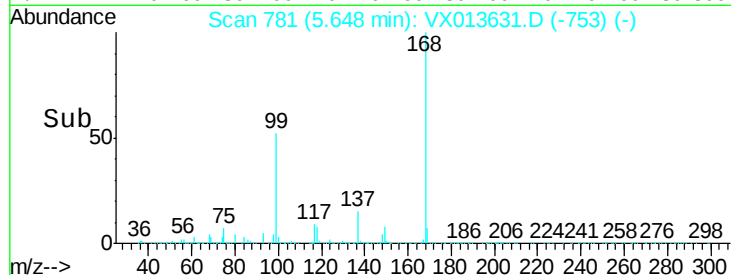
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

5.65

Time-->



#44

Trichloroethene

Concen: 0.381 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013631.D

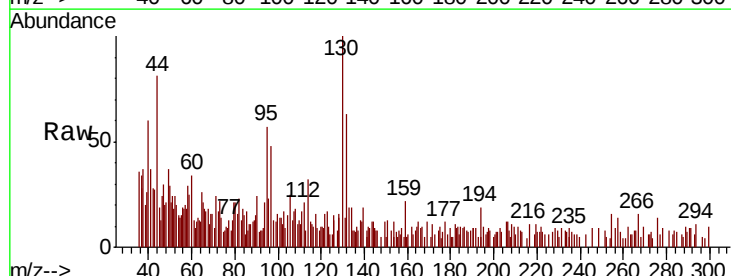
Acq: 27 Nov 2019 04:38

Tgt Ion:130 Resp: 3047

Ion Ratio Lower Upper

130 100

95 64.9 0.0 190.8

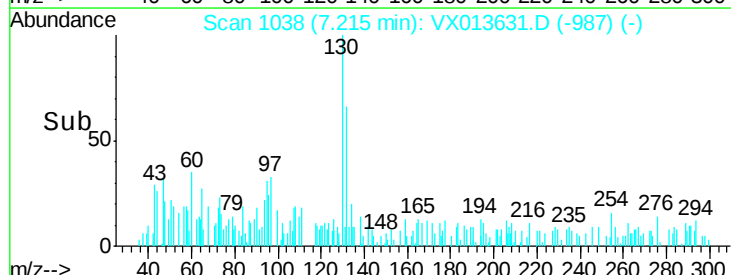


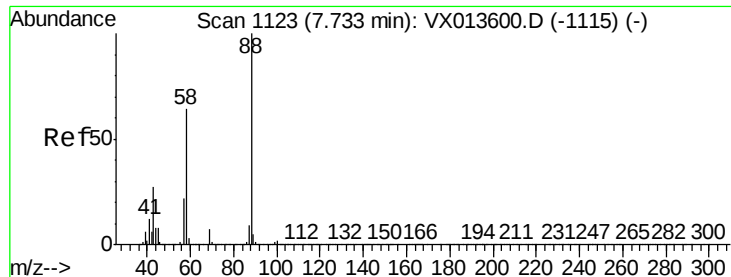
Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

Time-->





#49

1,4-Dioxane

Concen: 1.698 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20191121

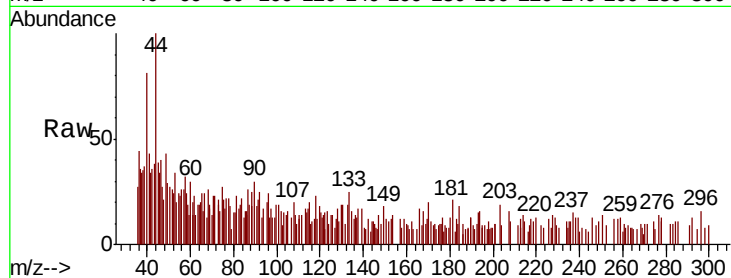
Tot Ion: 88 Resp: 326

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

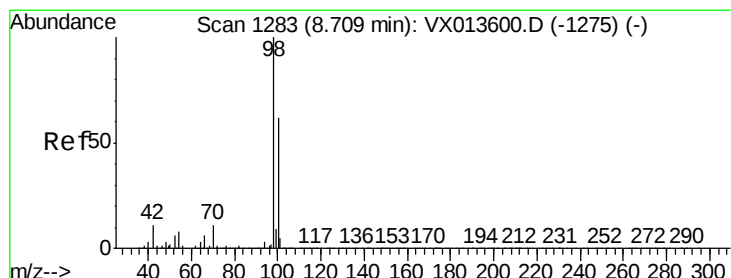
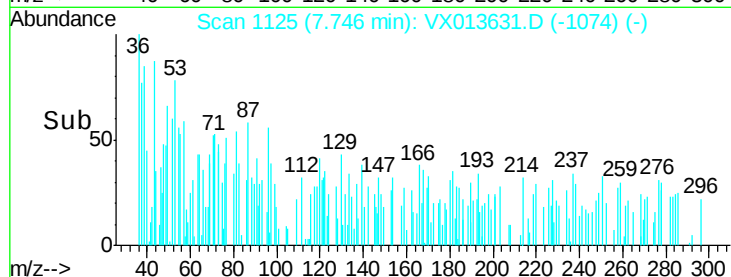
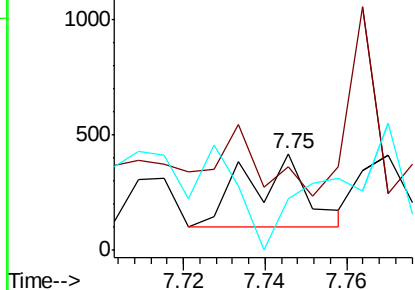
58 286.8 54.6 82.0#



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: 49.929 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013631.D

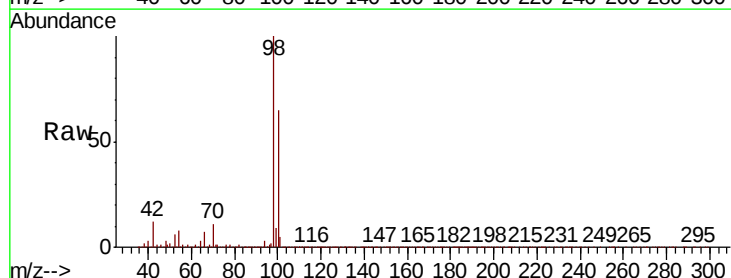
Acq: 27 Nov 2019 04:38

Tgt Ion: 98 Resp: 1266309

Ion Ratio Lower Upper

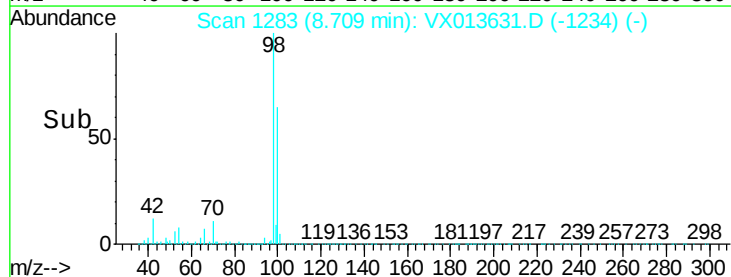
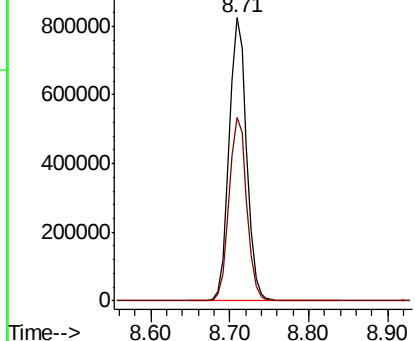
98 100

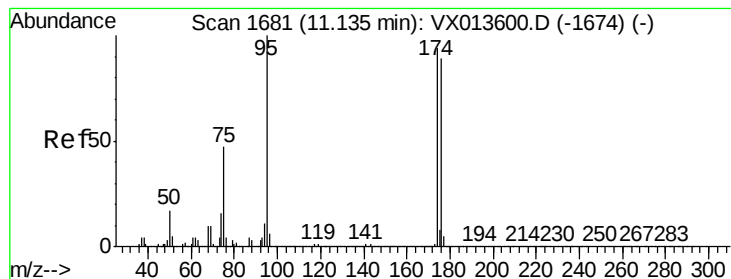
100 65.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.715 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20191121

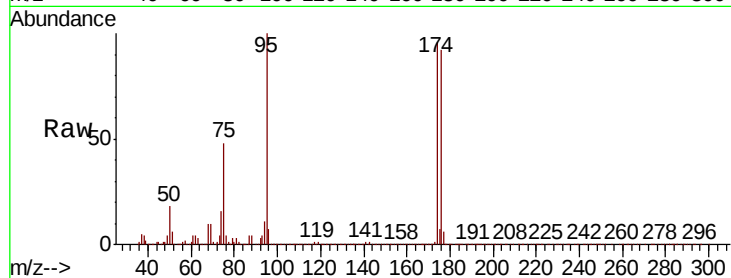
Tot Ion: 95 Resp: 418093

Ion Ratio Lower Upper

95 100

174 90.2 0.0 180.0

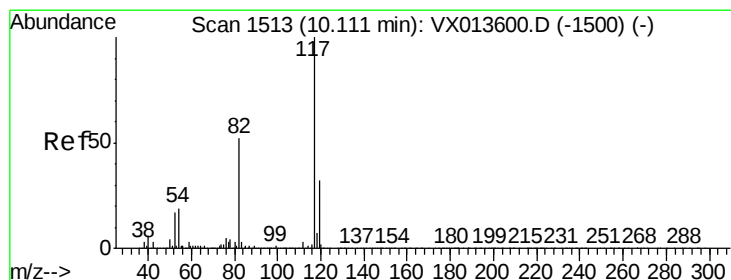
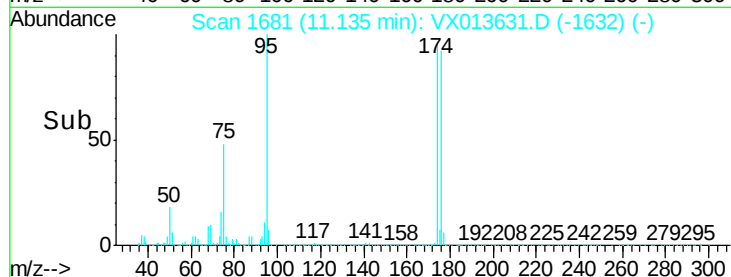
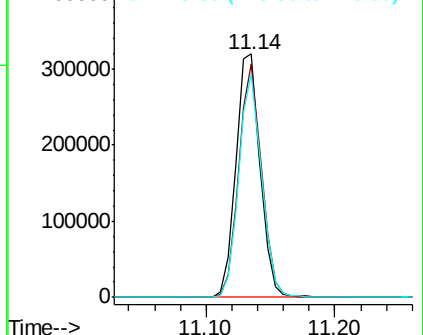
176 86.8 0.0 173.6



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: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

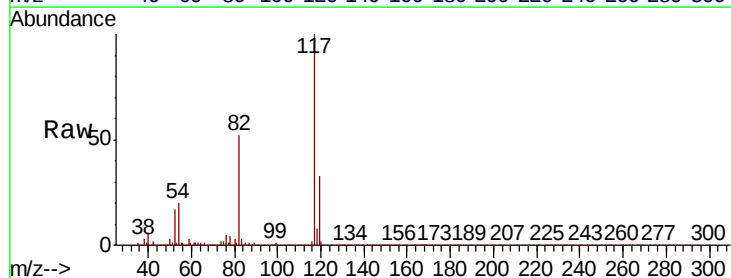
Tgt Ion: 117 Resp: 936665

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.8

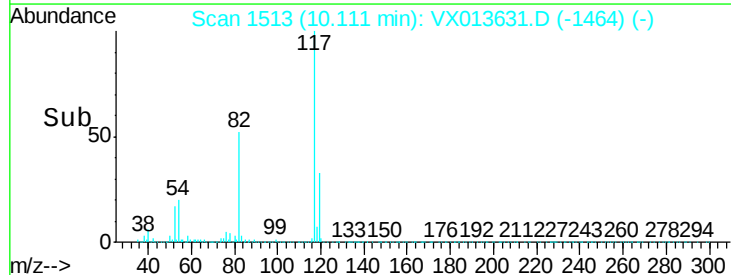
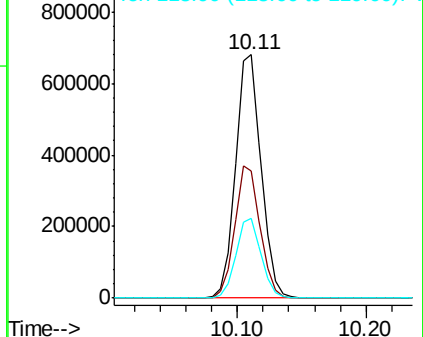
119 32.6 25.8 38.8

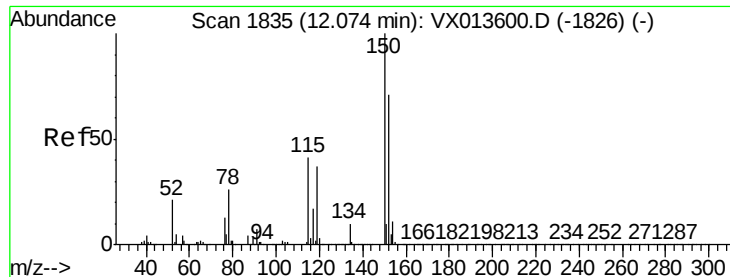


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20191121

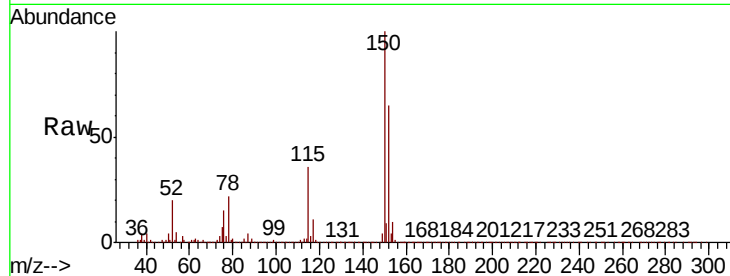
Tot Ion:152 Resp: 420963

Ion Ratio Lower Upper

152 100

115 55.6 38.4 115.1

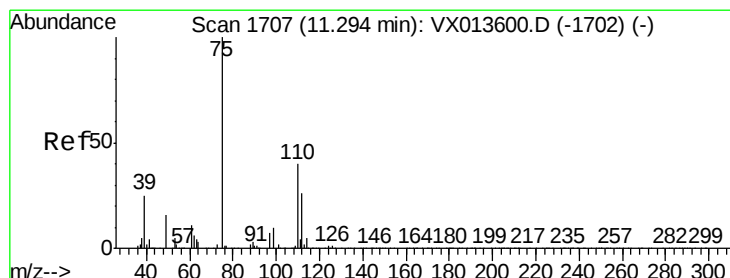
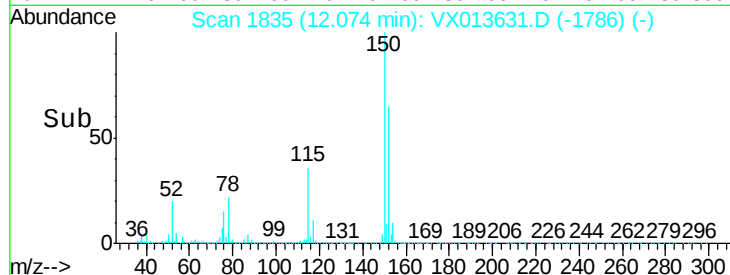
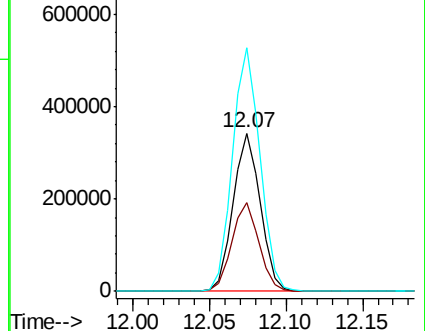
150 155.4 0.0 346.8



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: 21.539 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013631.D

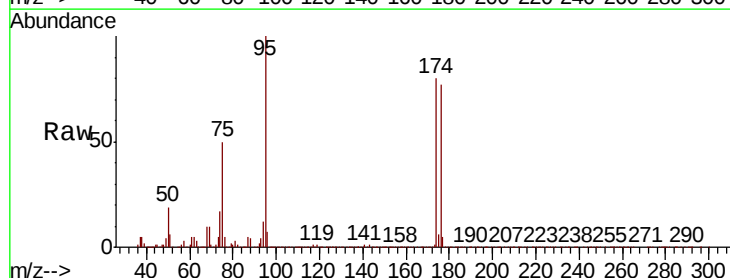
Acq: 27 Nov 2019 04:38

Tgt Ion: 75 Resp: 203938

Ion Ratio Lower Upper

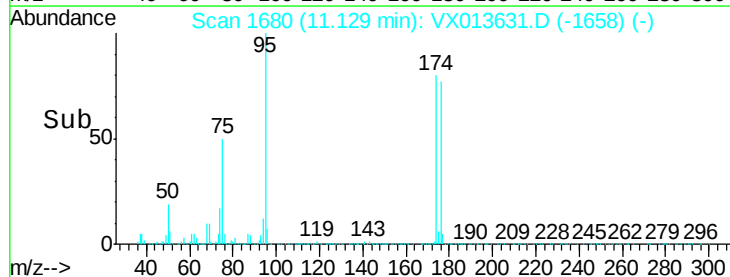
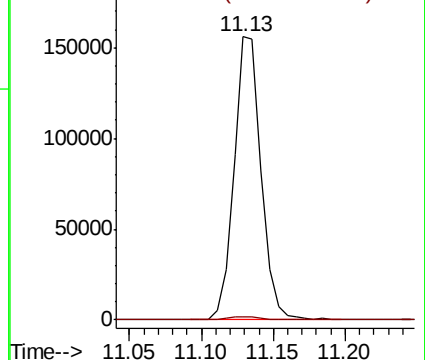
75 100

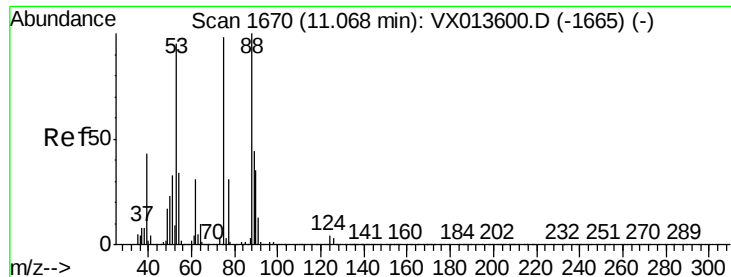
77 1.2 19.1 57.5#



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: 58.928 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013631.D

Acq: 27 Nov 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

DUP-01-20191121

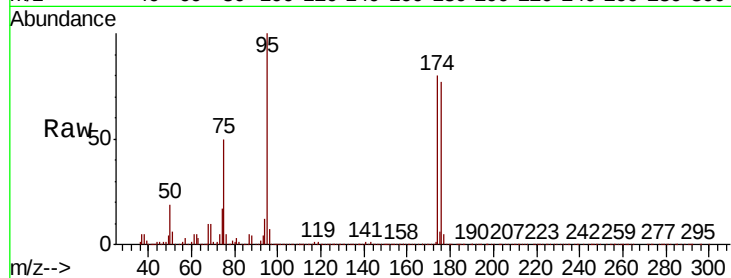
Tot Ion: 75 Resp: 203938

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.0 35.4 53.2#



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

