

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006614.D
 Acq On : 18 Dec 2018 23:25
 Operator : JC/MD
 Sample : J6405-11DL 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20181210DL

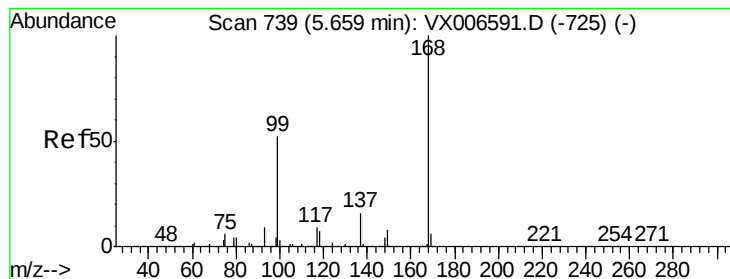
Quant Time: Dec 19 06:05:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	691821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1086540	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	992177	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	470120	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	372482	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	5.50	113	324130	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	8.71	98	1267970	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
62) 4-Bromofluorobenzene	11.13	95	466444	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1475	Below Cal	#	46
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2733	0.419	ug/l #	94
10) Methyl Iodide	2.52	142	2462	0.264	ug/l #	84
12) 1,1-Dichloroethene	2.38	96	1946	0.315	ug/l #	51
13) Acrolein	2.30	56	581	0.518	ug/l #	55
15) Acrylonitrile	3.16	53	996	0.270	ug/l #	14
16) Acetone	2.45	43	1544	0.451	ug/l #	69
17) Carbon Disulfide	2.57	76	3705	0.226	ug/l #	66
20) Methylene Chloride	2.85	84	2045	0.289	ug/l #	51
28) Bromochloromethane	5.01	49	496	Below Cal	#	29
36) 1,1-Dichloropropene	5.66	75	43776	4.865	ug/l #	43
38) Carbon Tetrachloride	5.67	117	65056	7.439	ug/l #	16
44) Trichloroethene	7.21	130	269587	32.562	ug/l	93
49) 1,4-Dioxane	7.74	88	114	Below Cal	#	1
60) Dibromochloromethane	9.60	129	49	2.330	ug/l	56
76) 1,2,3-Trichloropropane	11.13	75	216021	26.217	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	216021	73.109	ug/l #	15
90) Hexachloroethane	12.50	117	81	3.310	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006614.D

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ClientSampleId :

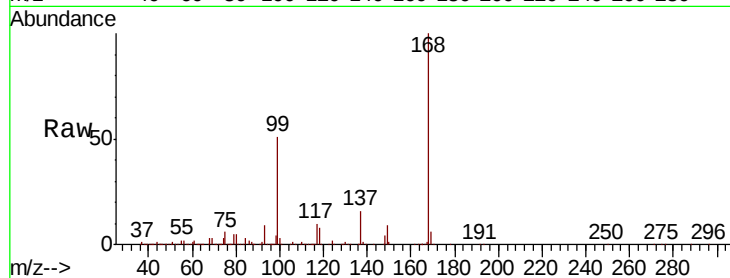
DUP03-20181210DL

Tot Ion:168 Resp: 691821

Ion Ratio Lower Upper

168 100

99 51.0 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

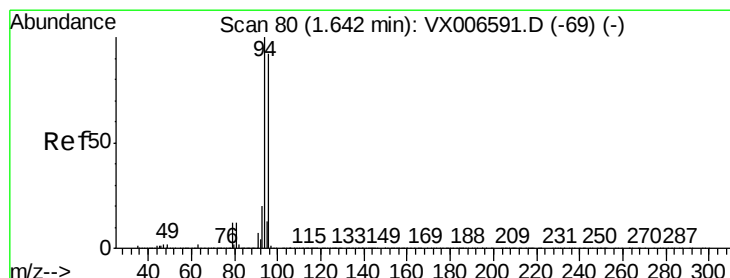
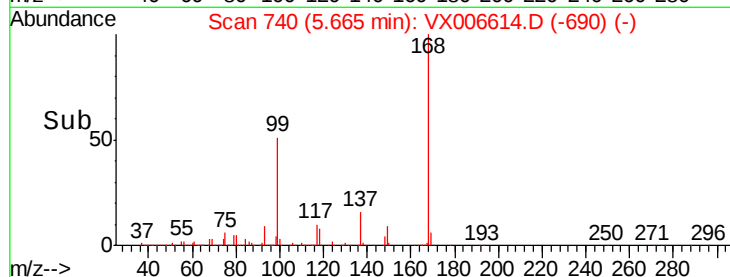
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006614.D

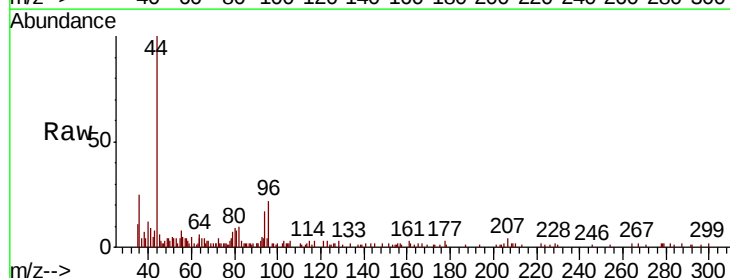
Acq: 18 Dec 2018 23:25

Tgt Ion: 94 Resp: 1475

Ion Ratio Lower Upper

94 100

96 144.7 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1200

1000

800

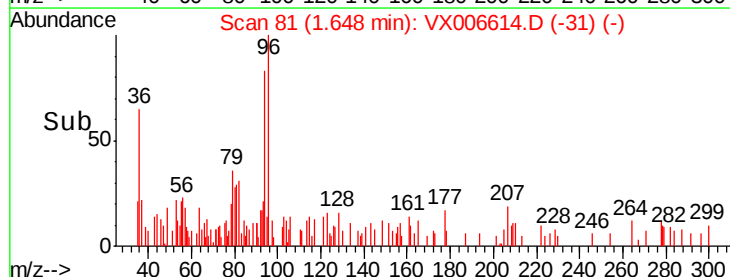
600

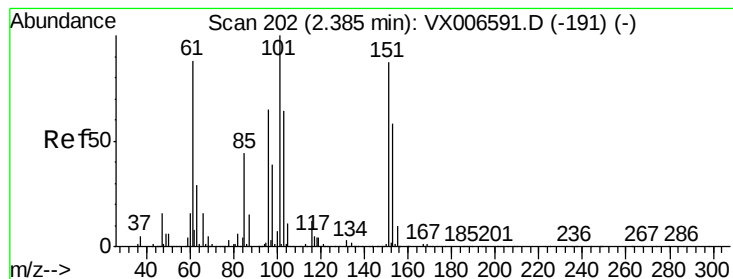
400

200

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.419 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

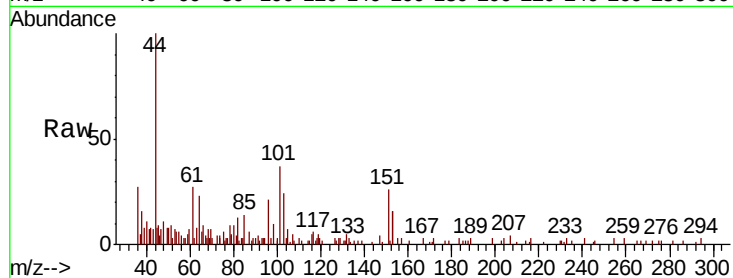
Tot Ion:101 Resp: 2733

Ion Ratio Lower Upper

101 100

85 54.2 35.5 53.3#

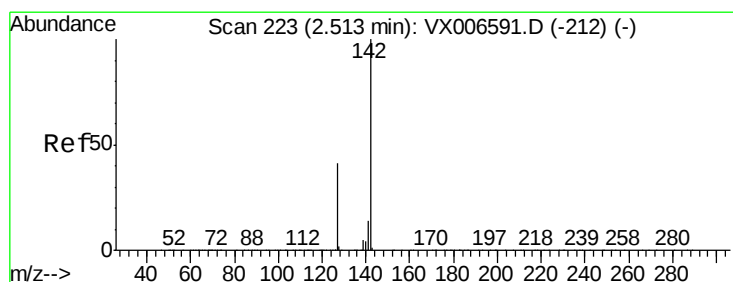
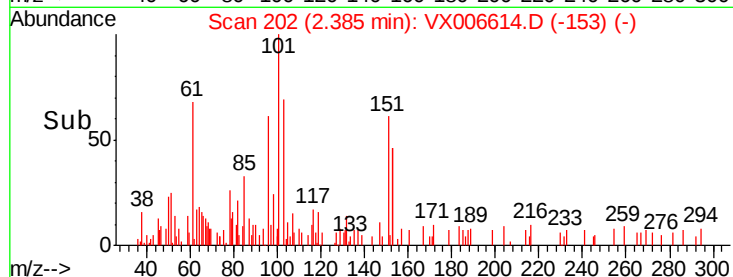
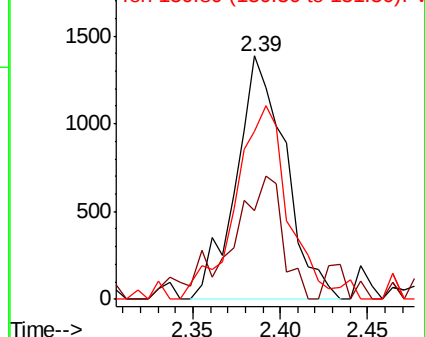
151 86.5 68.6 103.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.264 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

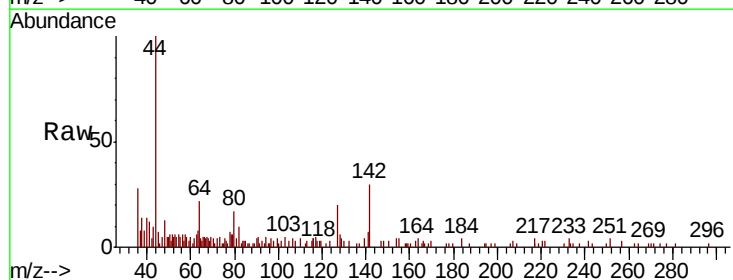
Tgt Ion:142 Resp: 2462

Ion Ratio Lower Upper

142 100

127 51.3 34.8 52.2

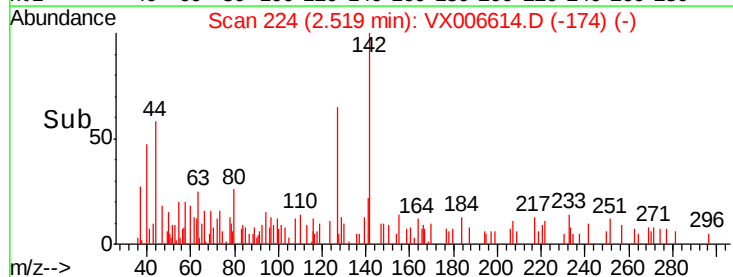
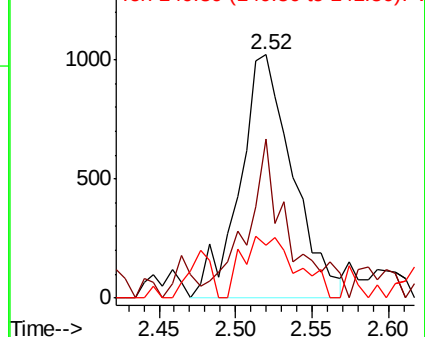
141 25.6 11.4 17.2#

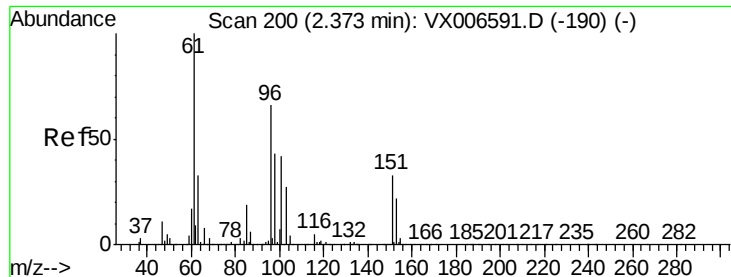


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.315 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

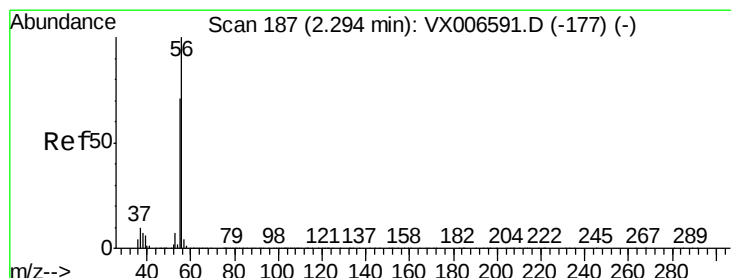
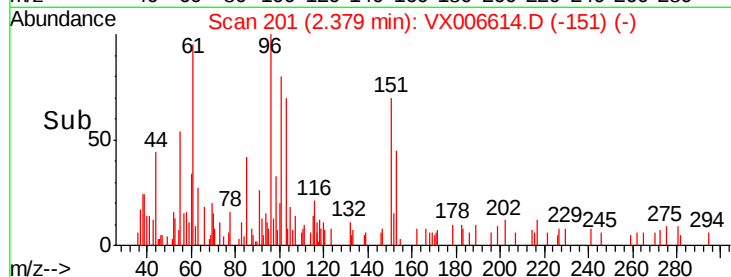
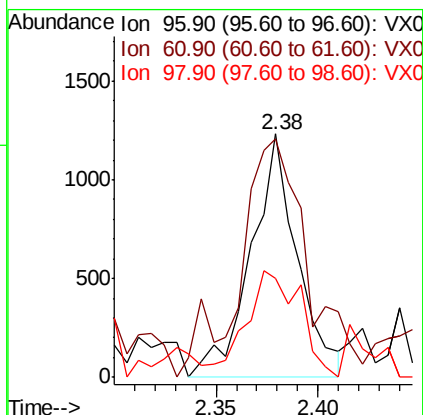
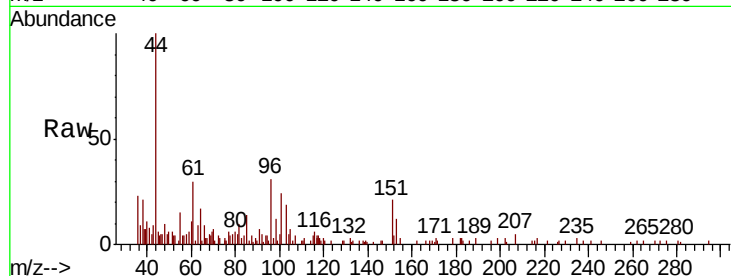
Tot Ion: 96 Resp: 1946

Ion Ratio Lower Upper

96 100

61 89.9 131.7 197.5#

98 40.6 51.8 77.6#



#13

Acrolein

Concen: 0.518 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006614.D

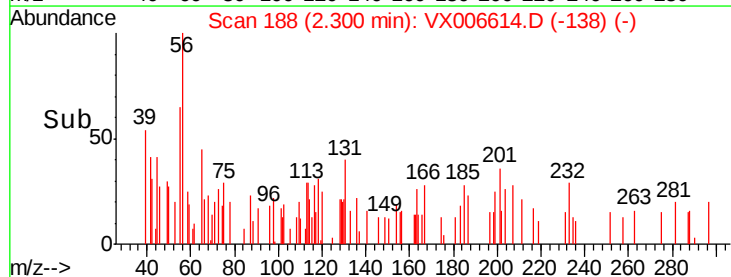
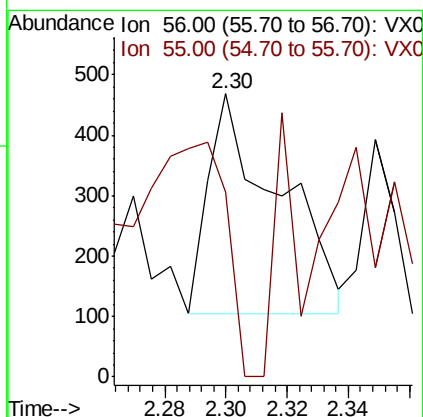
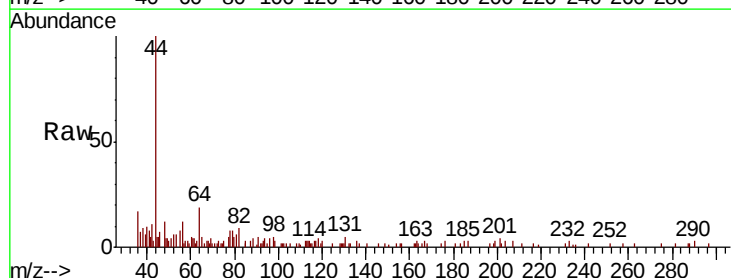
Acq: 18 Dec 2018 23:25

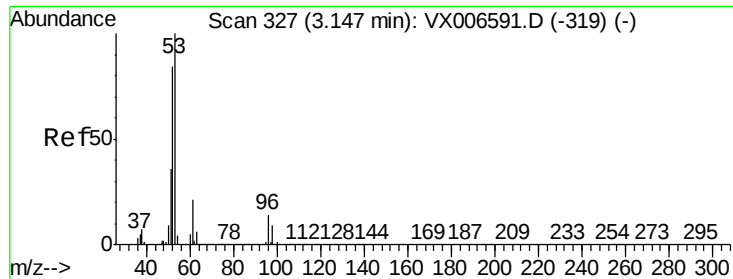
Tgt Ion: 56 Resp: 581

Ion Ratio Lower Upper

56 100

55 110.2 57.8 86.6#





#15

Acrylonitrile

Concen: 0.270 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

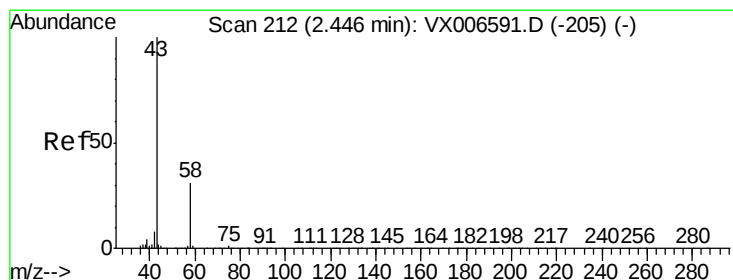
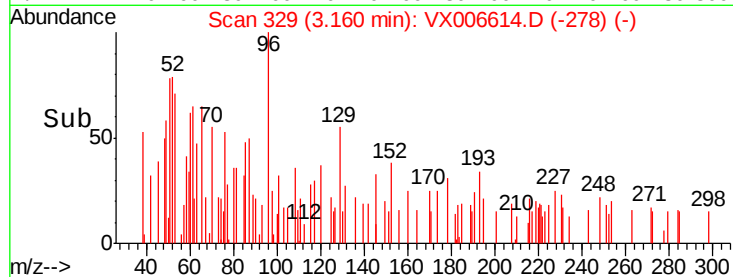
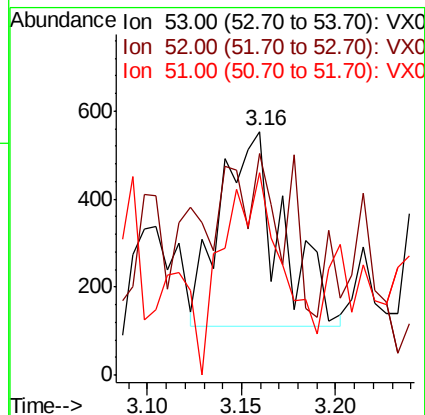
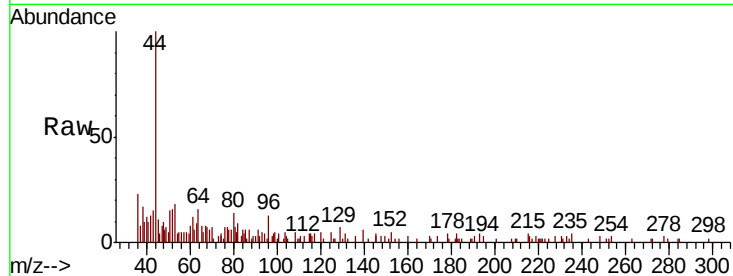
Tot Ion: 53 Resp: 996

Ion Ratio Lower Upper

53 100

52 15.5 66.2 99.4#

51 102.2 28.7 43.1#



#16

Acetone

Concen: 0.451 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006614.D

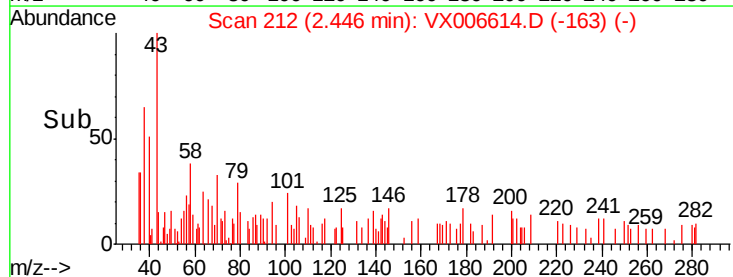
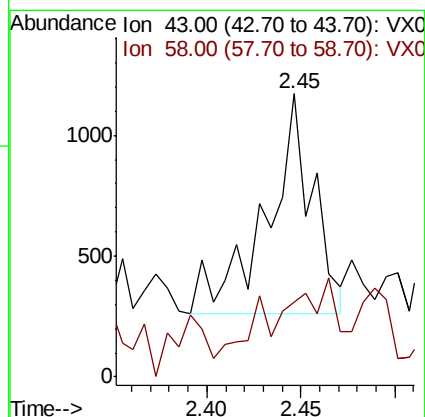
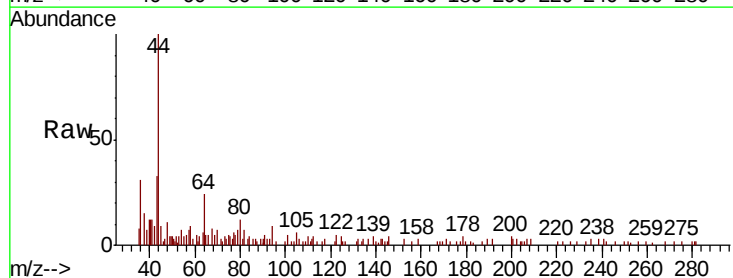
Acq: 18 Dec 2018 23:25

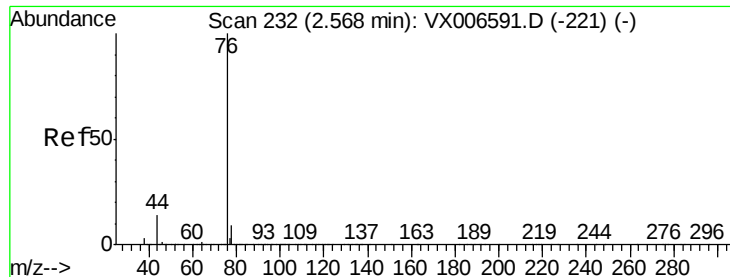
Tgt Ion: 43 Resp: 1544

Ion Ratio Lower Upper

43 100

58 13.0 24.0 36.0#

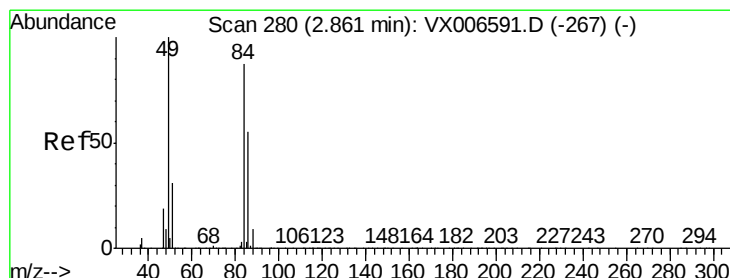
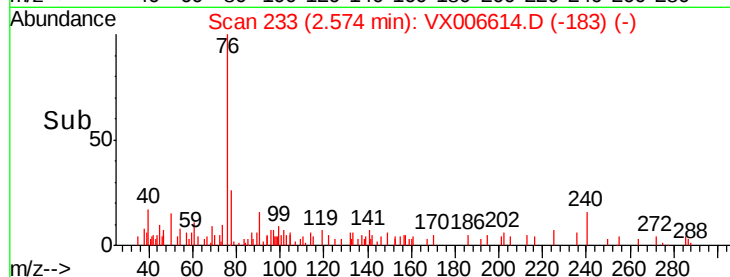
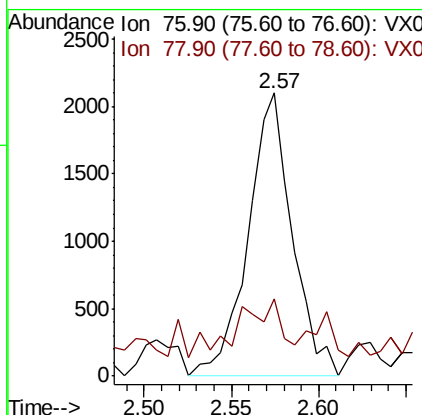
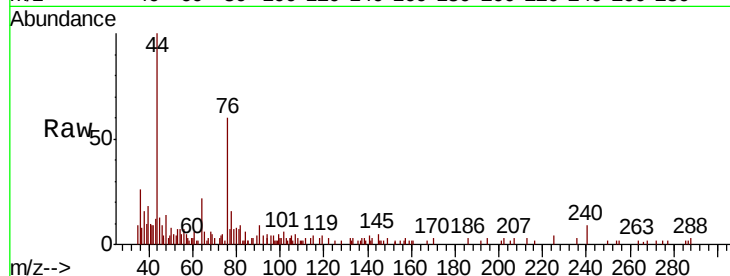




#17
Carbon Disulfide
Concen: 0.226 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX006614.D
Acq: 18 Dec 2018 23:25

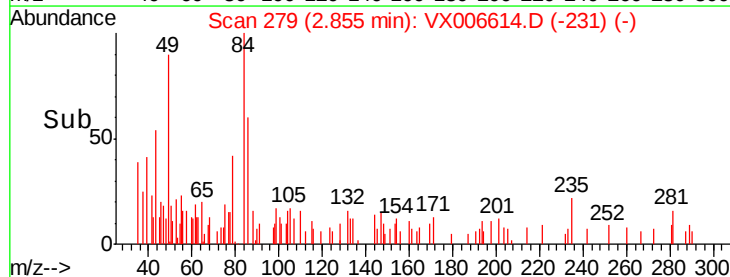
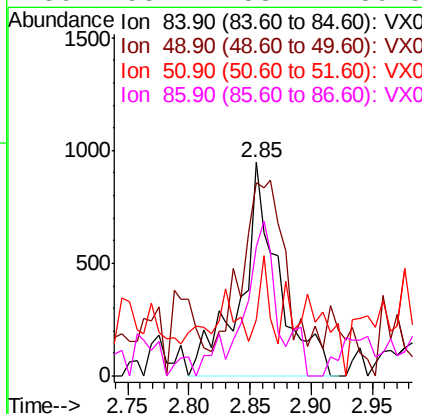
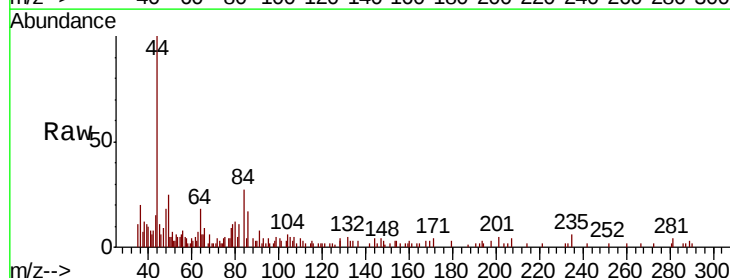
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20181210DL

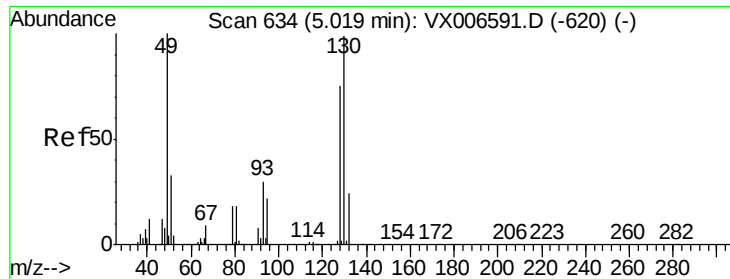
Tot Ion: 76 Resp: 3705
Ion Ratio Lower Upper
76 100
78 21.1 7.1 10.7#



#20
Methylene Chloride
Concen: 0.289 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006614.D
Acq: 18 Dec 2018 23:25

Tgt Ion: 84 Resp: 2045
Ion Ratio Lower Upper
84 100
49 54.5 102.2 153.4#
51 6.2 31.1 46.7#
86 53.2 53.7 80.5#

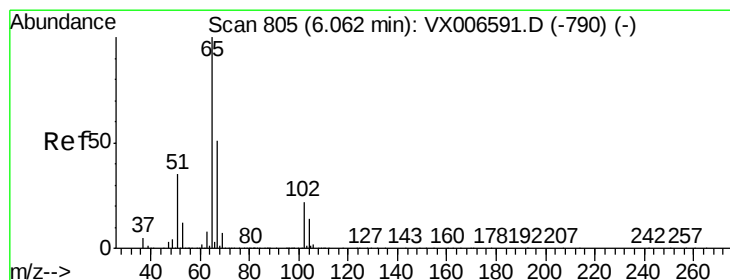
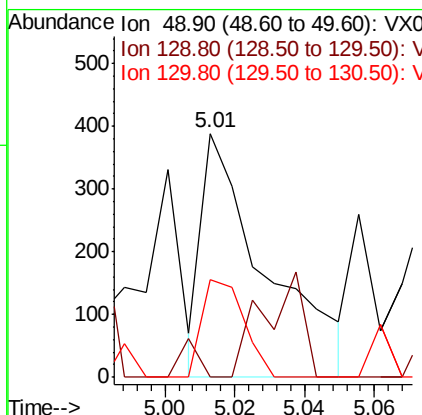
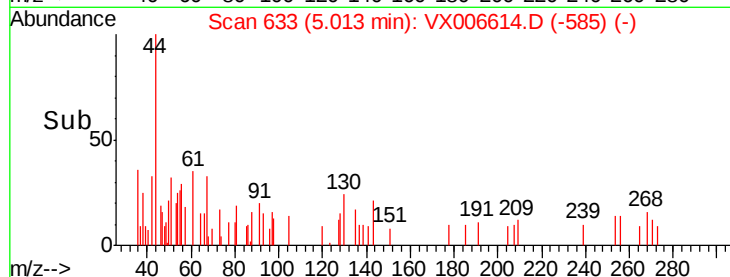
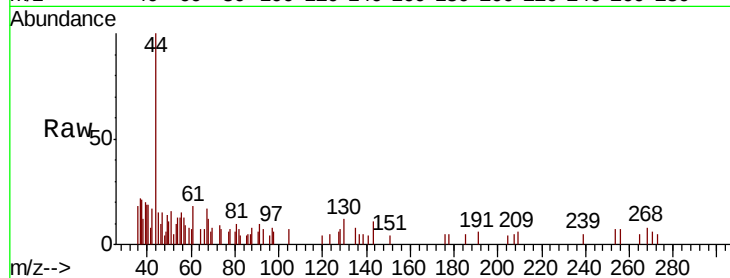




#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX006614.D
Acq: 18 Dec 2018 23:25

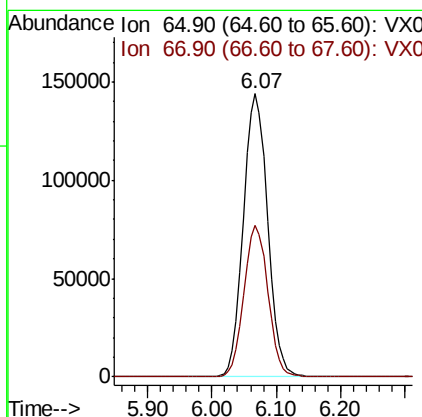
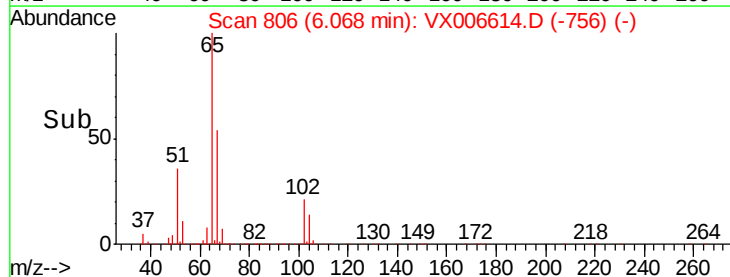
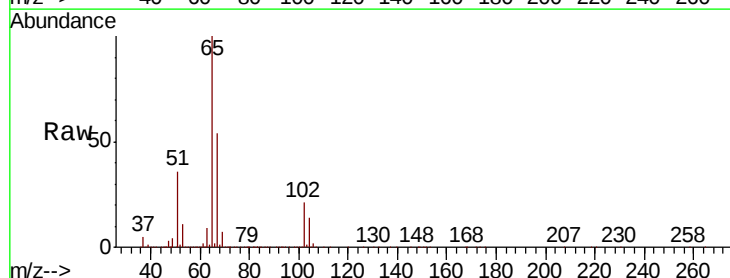
Instrument :
MSVOA_X
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DUP03-20181210DL

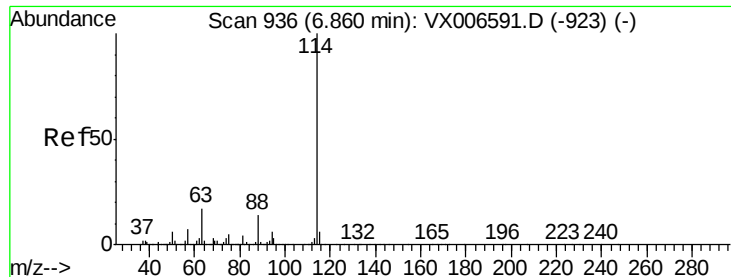
Tot Ion: 49 Resp: 496
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 26.2 78.3 117.5#



#33
1,2-Dichloroethane-d4
Concen: 49.956 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006614.D
Acq: 18 Dec 2018 23:25

Tgt Ion: 65 Resp: 372482
Ion Ratio Lower Upper
65 100
67 53.2 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

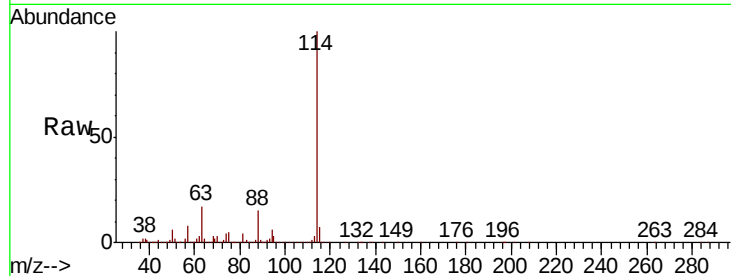
Tot Ion:114 Resp: 1086540

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.6

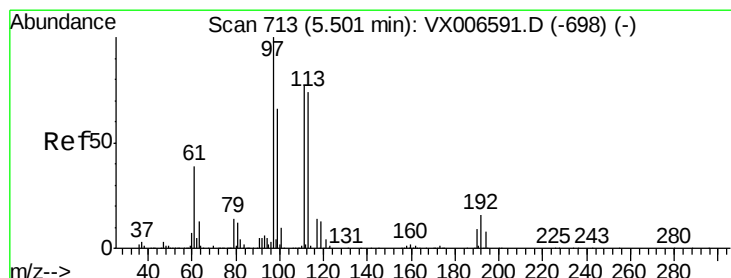
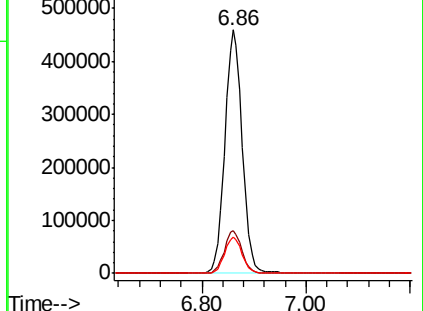
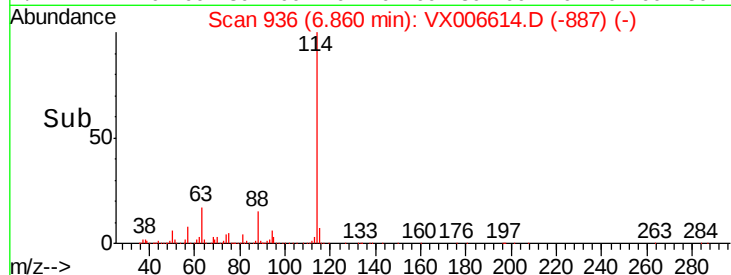
88 14.9 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.173 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

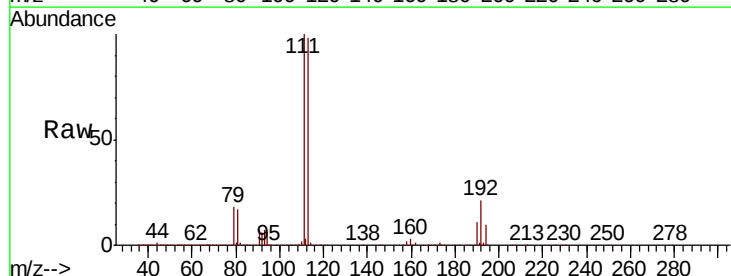
Tgt Ion:113 Resp: 324130

Ion Ratio Lower Upper

113 100

111 101.6 81.1 121.7

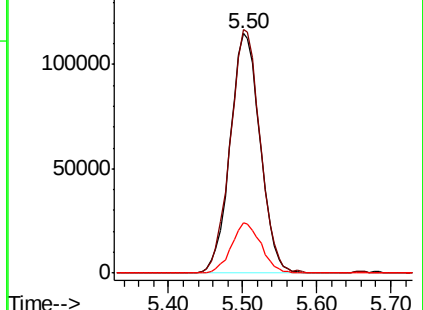
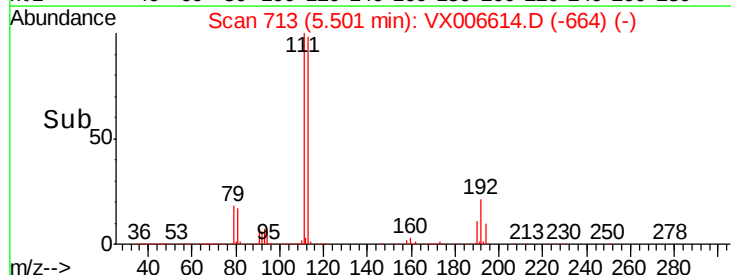
192 20.8 18.2 27.2

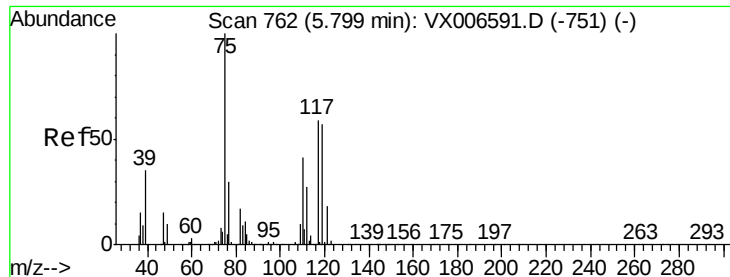


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.865 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

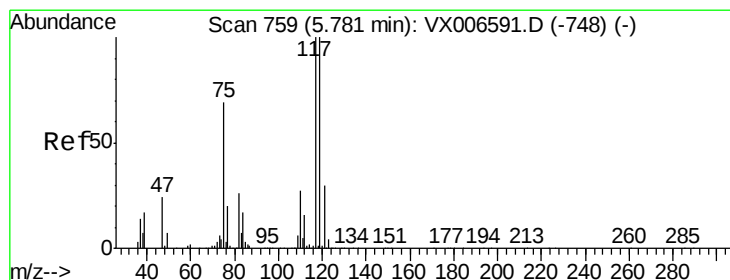
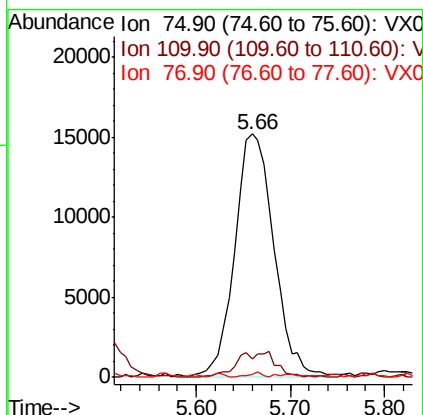
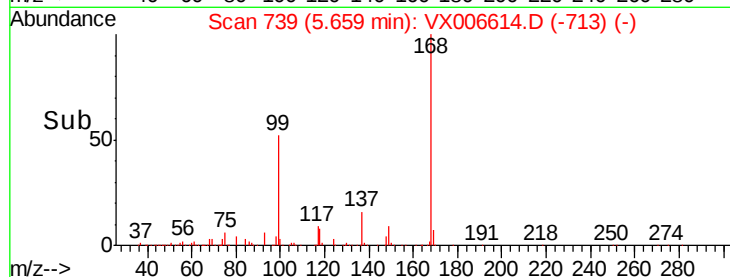
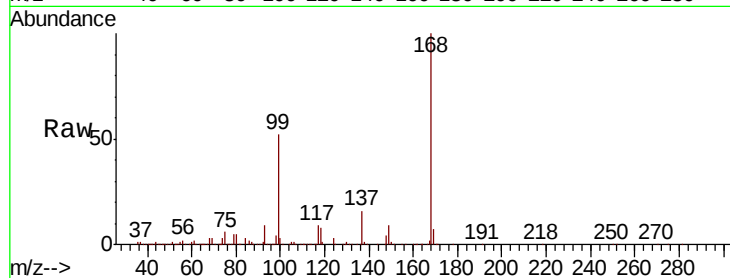
Tot Ion: 75 Resp: 43776

Ion Ratio Lower Upper

75 100

110 4.9 20.4 61.3#

77 0.6 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 7.439 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

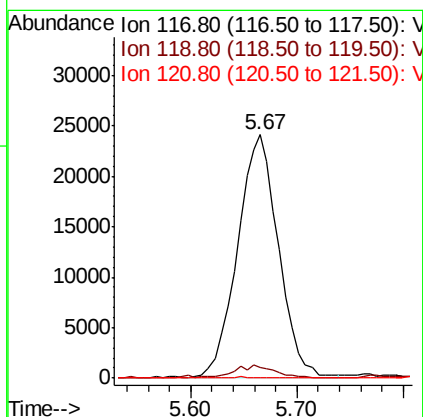
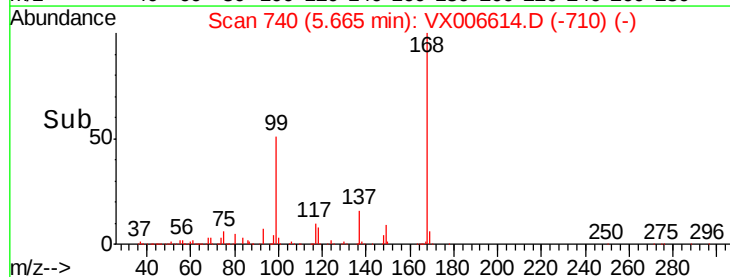
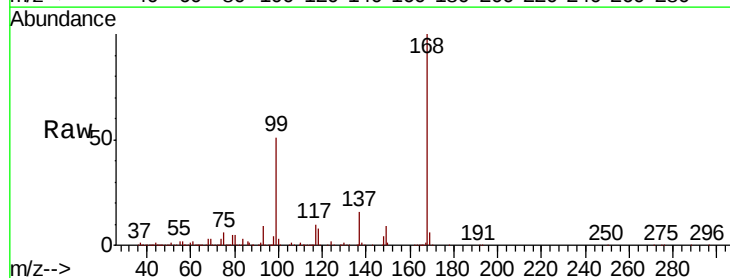
Tgt Ion: 117 Resp: 65056

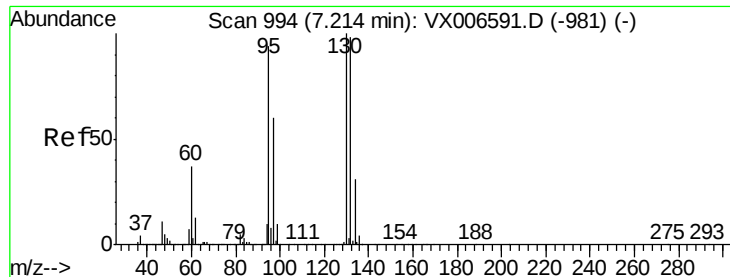
Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.8#

121 0.0 24.6 37.0#





#44

Trichloroethene

Concen: 32.562 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

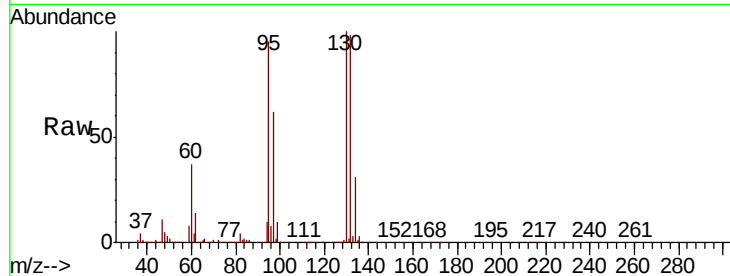
DUP03-20181210DL

Tot Ion:130 Resp: 269587

Ion Ratio Lower Upper

130 100

95 94.5 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

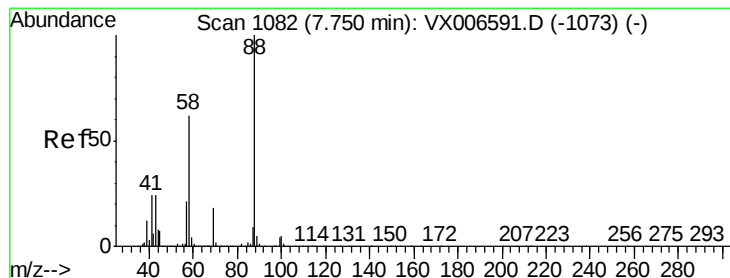
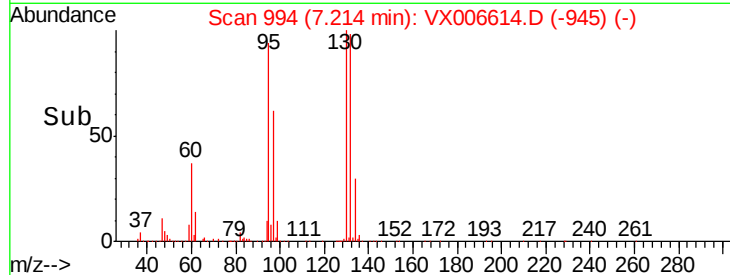
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

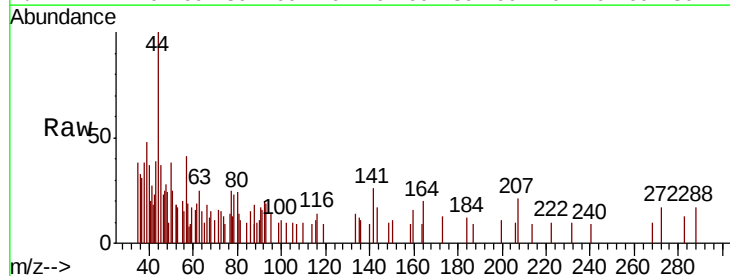
Tgt Ion: 88 Resp: 114

Ion Ratio Lower Upper

88 100

43 198.2 23.2 34.8#

58 214.0 51.4 77.0#



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

600

500

400

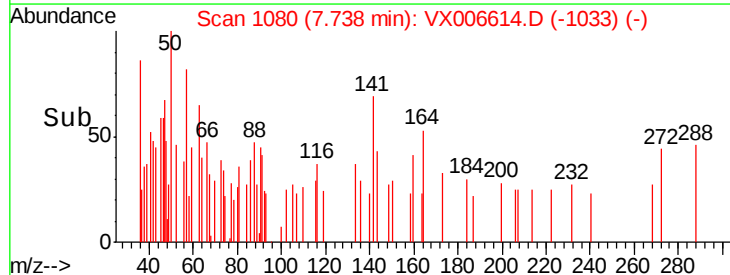
300

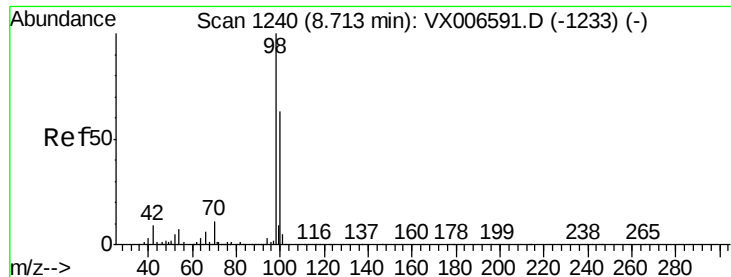
200

100

0

Time-->





#50

Toluene-d8

Concen: 48.948 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

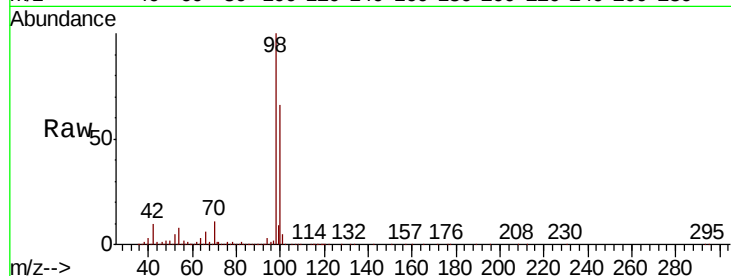
DUP03-20181210DL

Tot Ion: 98 Resp: 1267970

Ion Ratio Lower Upper

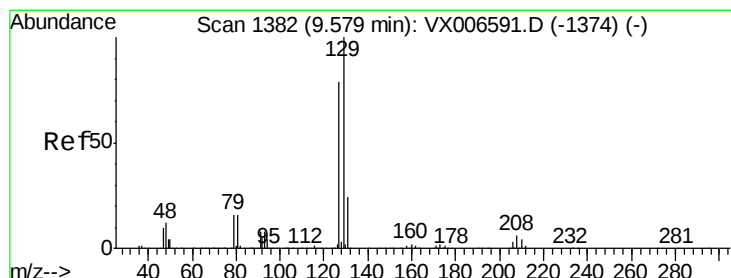
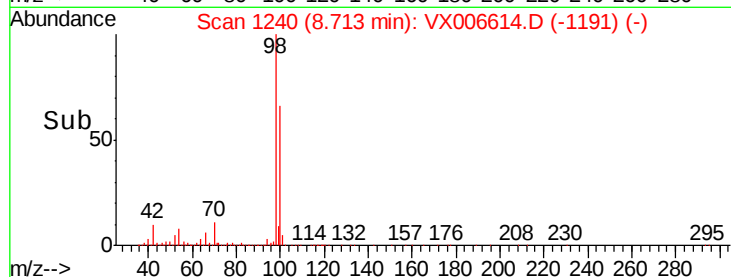
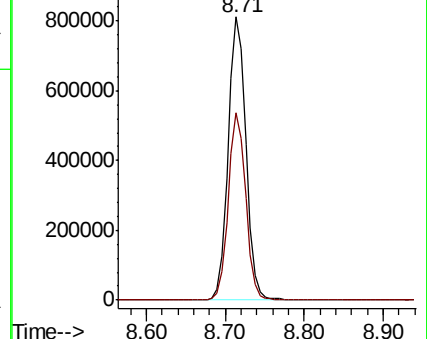
98 100

100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.330 ug/l

RT: 9.60 min Scan# 1385

Delta R.T. 0.02 min

Lab File: VX006614.D

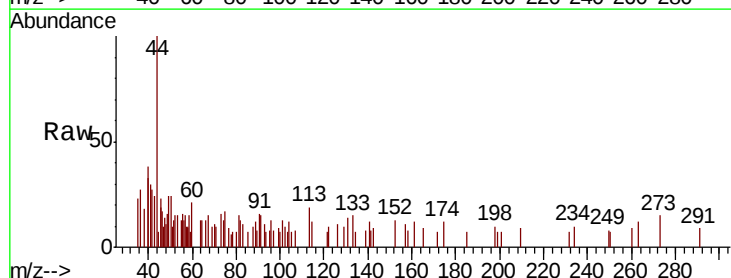
Acq: 18 Dec 2018 23:25

Tgt Ion:129 Resp: 49

Ion Ratio Lower Upper

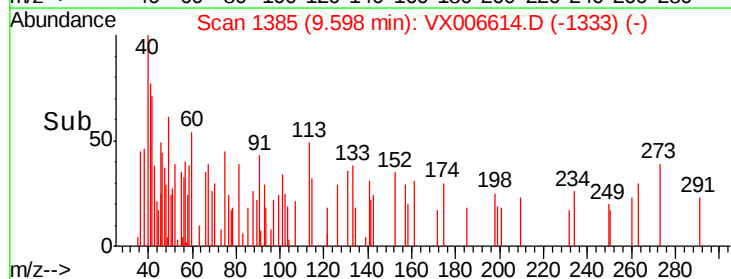
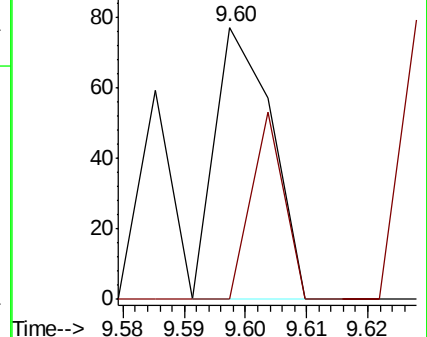
129 100

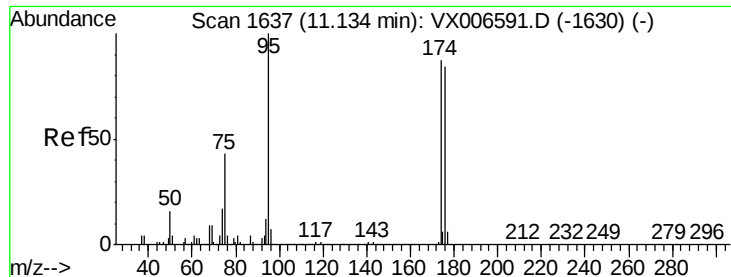
127 38.8 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 49.166 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

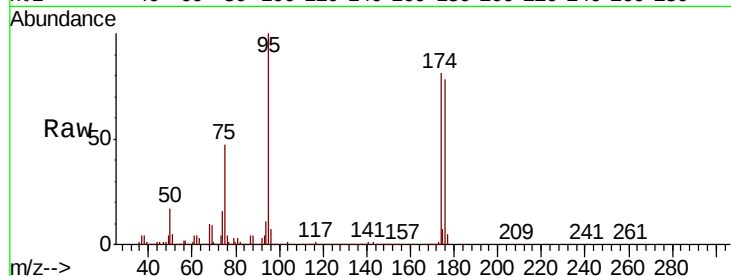
Tot Ion: 95 Resp: 466444

Ion Ratio Lower Upper

95 100

174 87.1 0.0 187.0

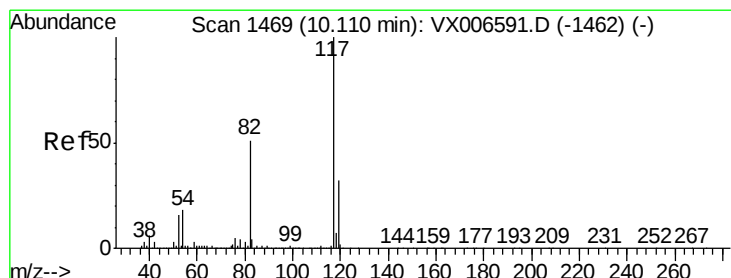
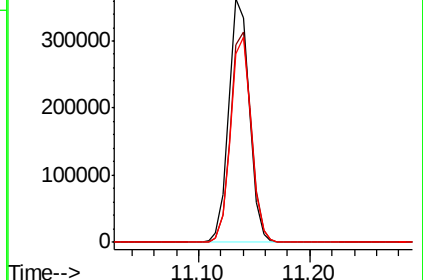
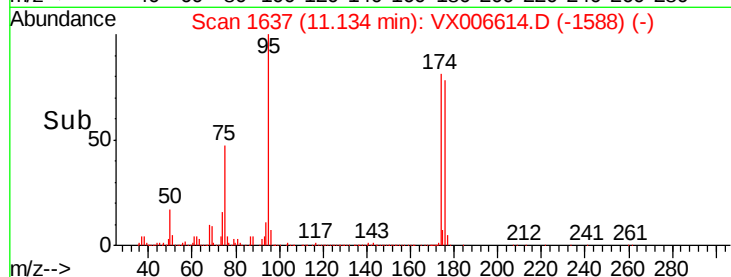
176 84.1 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006614.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006614.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006614.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

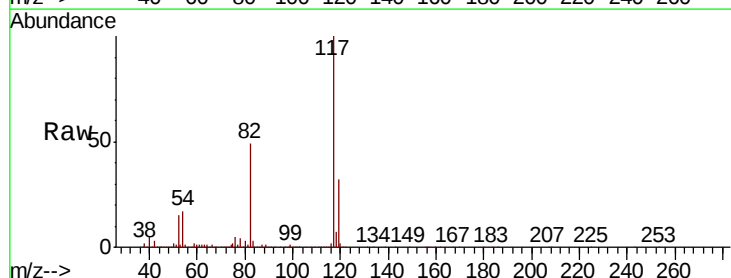
Tgt Ion: 117 Resp: 992177

Ion Ratio Lower Upper

117 100

82 49.0 39.6 59.4

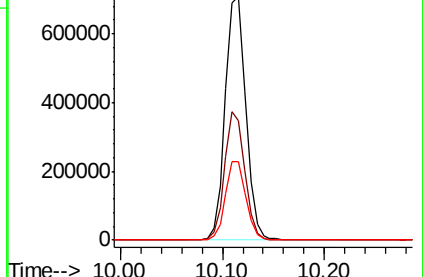
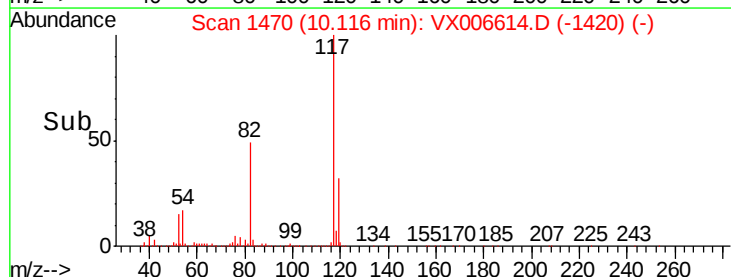
119 32.2 26.3 39.5

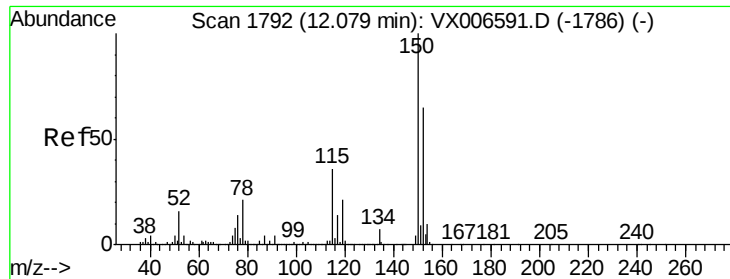


Abundance Ion 116.90 (116.60 to 117.60): VX006614.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006614.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006614.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006614.D

Acq: 18 Dec 2018 23:25

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20181210DL

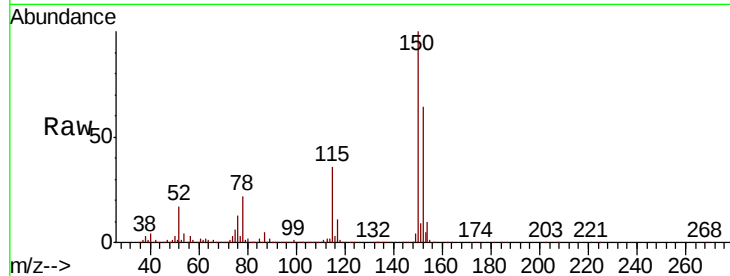
Tot Ion:152 Resp: 470120

Ion Ratio Lower Upper

152 100

115 56.9 39.0 116.9

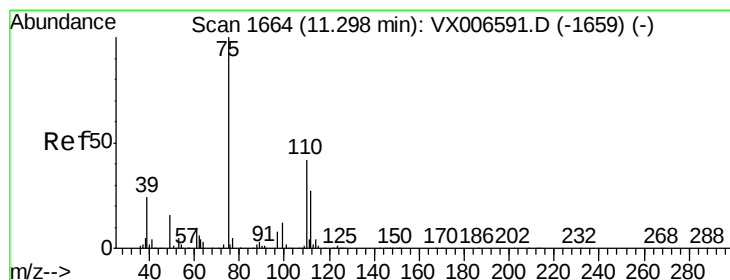
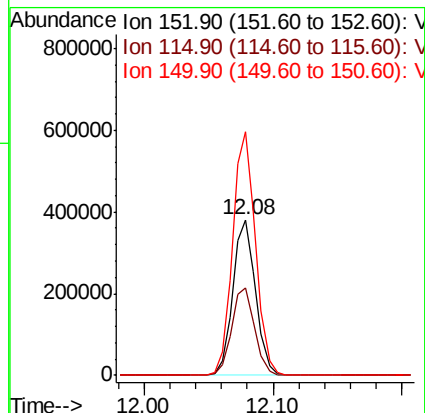
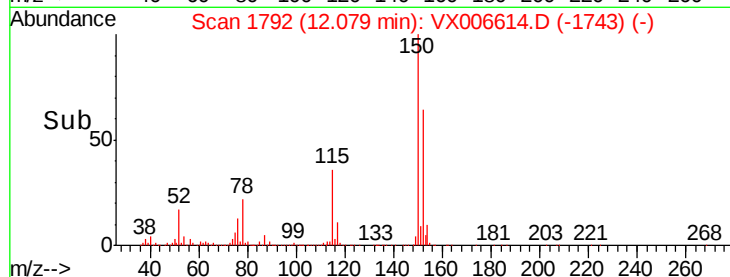
150 157.9 0.0 345.8



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: 26.217 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006614.D

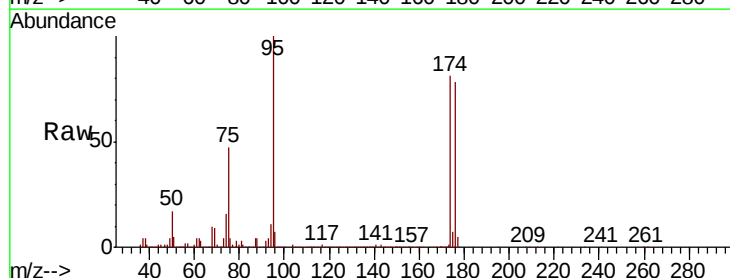
Acq: 18 Dec 2018 23:25

Tgt Ion: 75 Resp: 216021

Ion Ratio Lower Upper

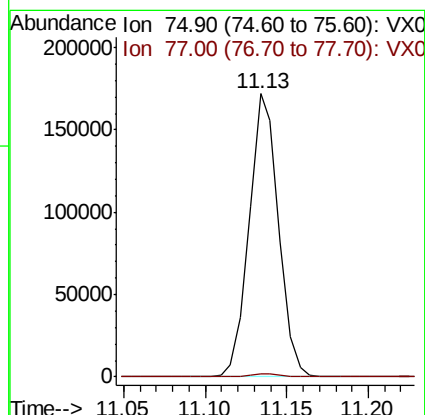
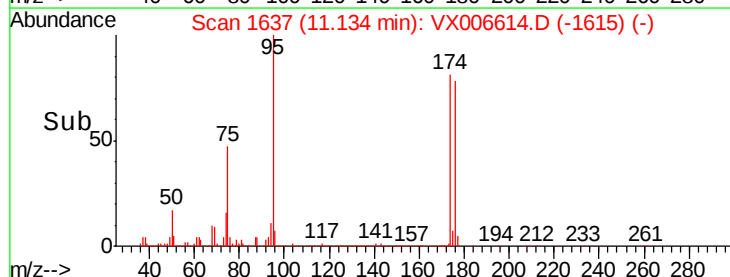
75 100

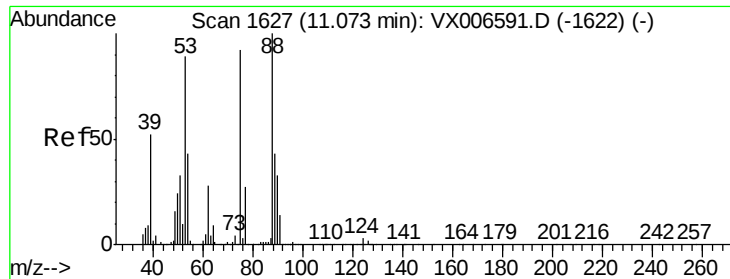
77 1.4 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

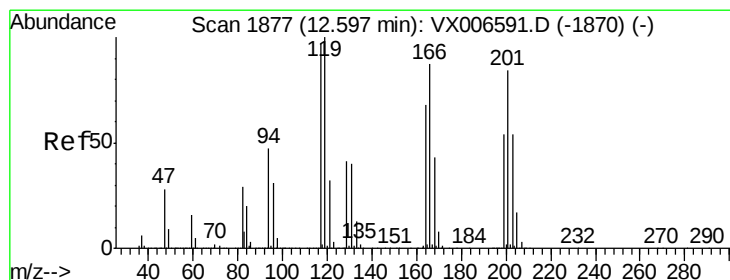
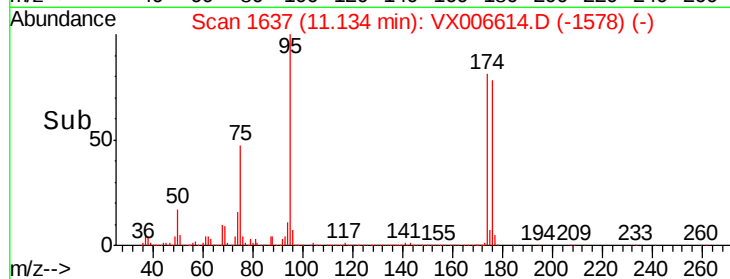
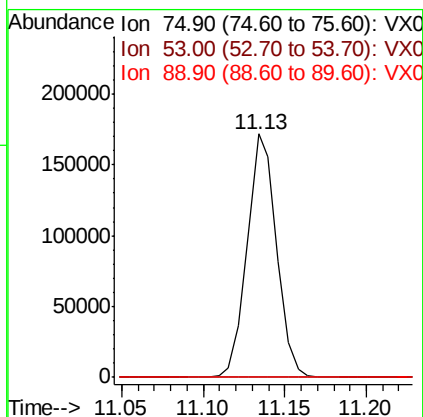
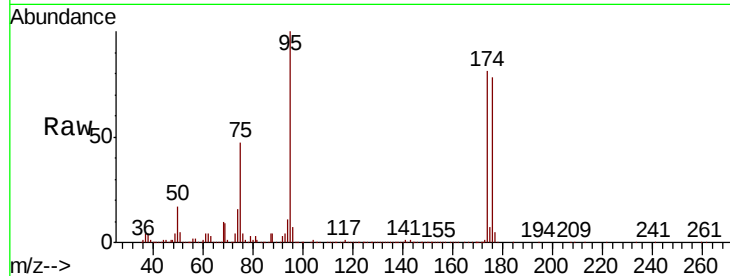




#81
trans-1,4-Dichloro-2-butene
Concen: 73.109 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006614.D
Acq: 18 Dec 2018 23:25

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20181210DL

Tot Ion: 75 Resp: 216021
Ion Ratio Lower Upper
75 100
53 0.1 64.4 96.6#
89 0.1 44.2 66.4#



#90
Hexachloroethane
Concen: 3.310 ug/l
RT: 12.50 min Scan# 1861
Delta R.T. -0.10 min
Lab File: VX006614.D
Acq: 18 Dec 2018 23:25

Tgt Ion: 117 Resp: 81
Ion Ratio Lower Upper
117 100
201 85.2 44.7 134.1

