

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041619\
 Data File : VX008981.D
 Acq On : 16 Apr 2019 12:45
 Operator : JC/SP
 Sample : K2387-08DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0508-190410DL

Quant Time: Apr 17 04:16:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	260888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	413332	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	365431	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	162503	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	168419	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	
35) Dibromofluoromethane	5.49	113	122264	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.71	98	521584	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	11.13	95	179116	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	

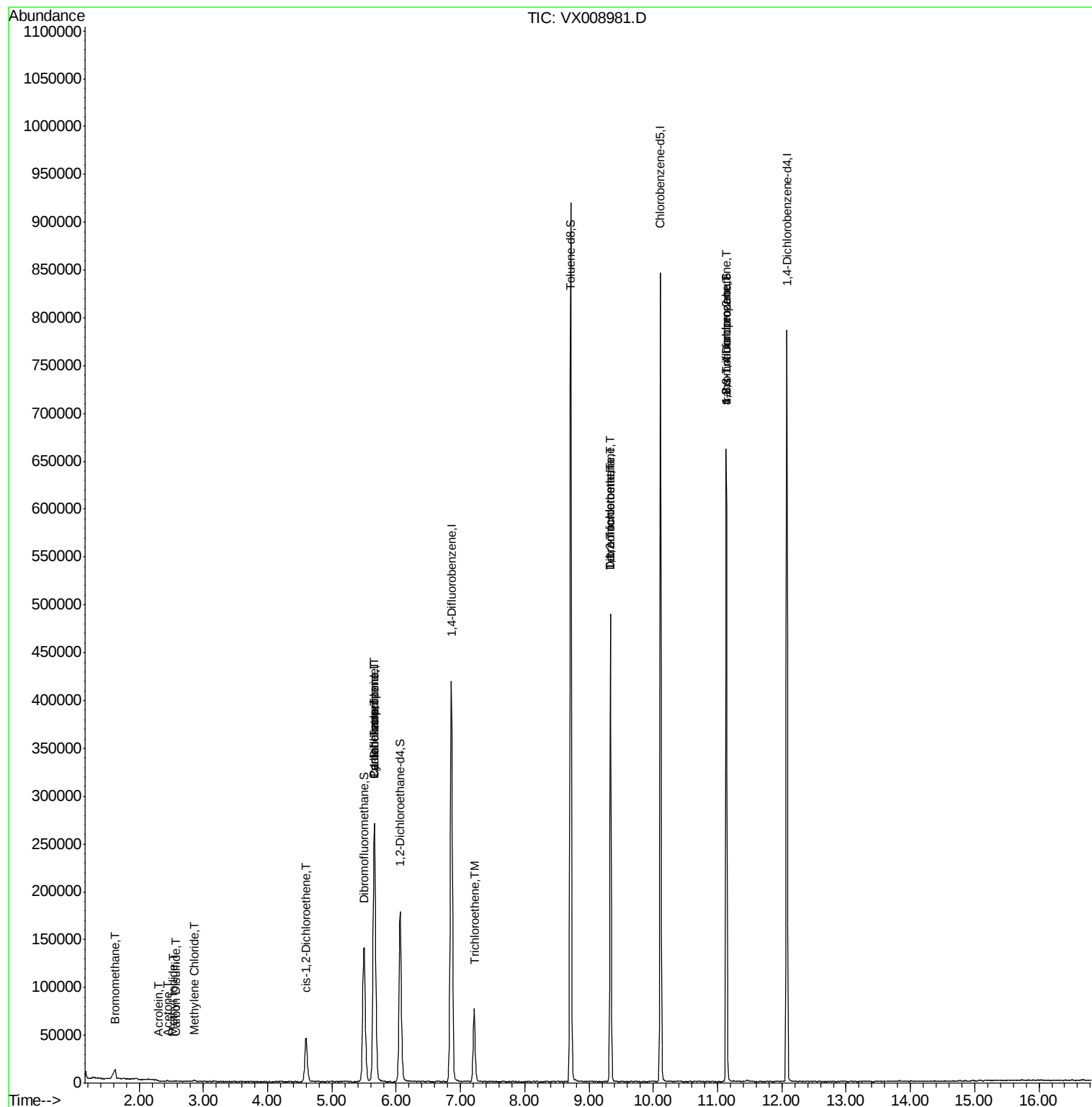
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	661	4.120	ug/l	99
10) Methyl Iodide	2.52	142	368	4.529	ug/l #	81
13) Acrolein	2.31	56	233	0.330	ug/l #	59
16) Acetone	2.45	43	734	0.385	ug/l	99
17) Carbon Disulfide	2.57	76	873	1.356	ug/l #	45
20) Methylene Chloride	2.85	84	708	0.217	ug/l #	81
27) cis-1,2-Dichloroethene	4.59	96	28646	8.455	ug/l	90
28) Bromochloromethane	5.02	49	52	Below Cal	#	21
31) Cyclohexane	5.66	56	5979	1.021	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20157	4.715	ug/l #	50
38) Carbon Tetrachloride	5.66	117	24865	6.861	ug/l #	18
44) Trichloroethene	7.21	130	29135	9.429	ug/l	99
55) 1,1,2-Trichloroethane	9.33	97	911	0.304	ug/l #	18
60) Dibromochloromethane	9.34	129	87487	30.474	ug/l #	10
64) Tetrachloroethene	9.34	164	94434	34.017	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	90955	22.922	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	90955	58.847	ug/l #	11

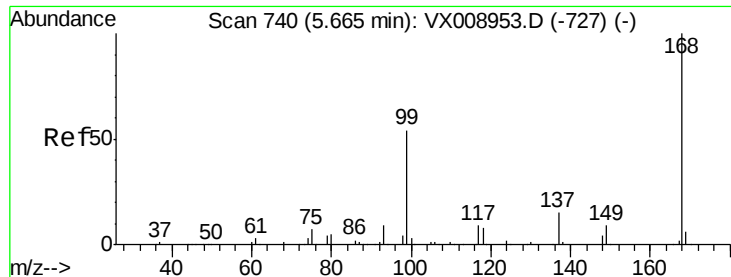
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

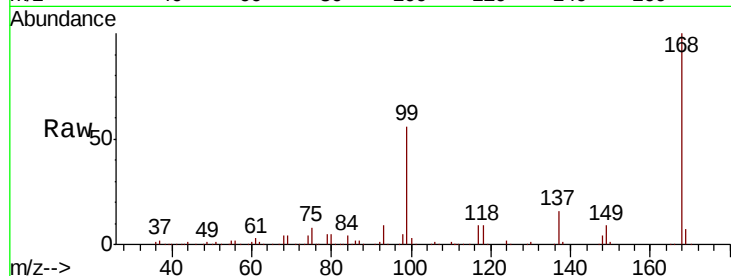
DUP-0508-190410DL

Tot Ion:168 Resp: 260888

Ion Ratio Lower Upper

168 100

99 56.3 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

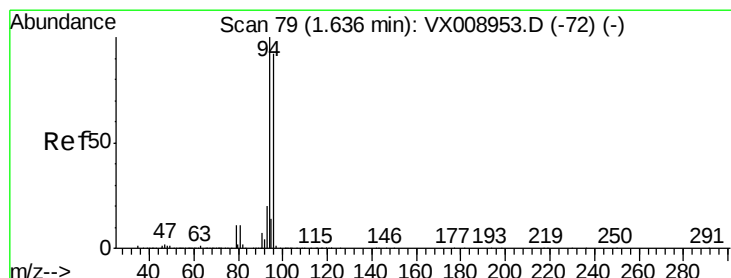
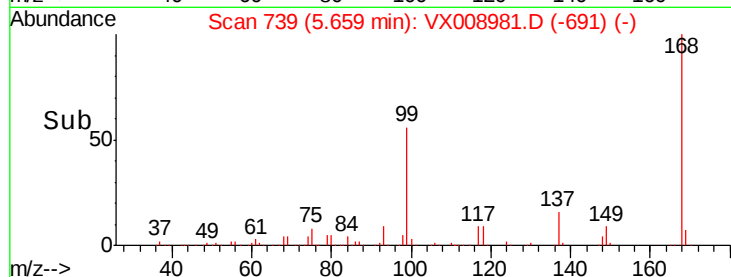
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.120 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008981.D

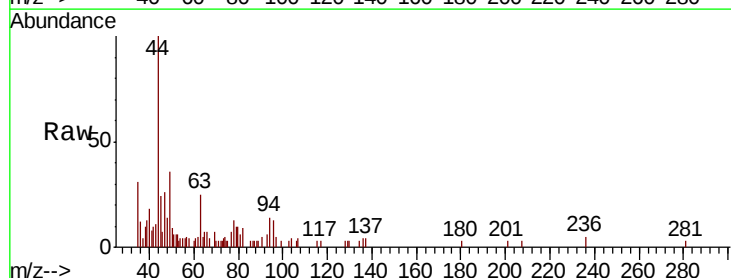
Acq: 16 Apr 2019 12:45

Tgt Ion: 94 Resp: 661

Ion Ratio Lower Upper

94 100

96 93.2 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

150

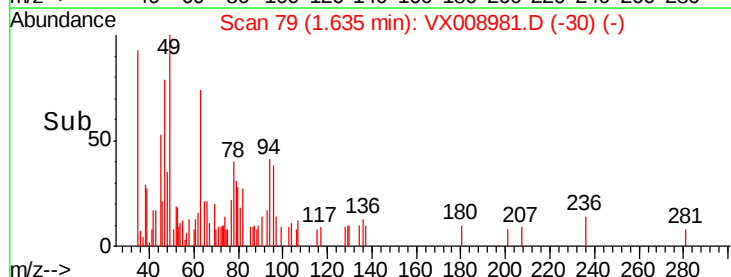
100

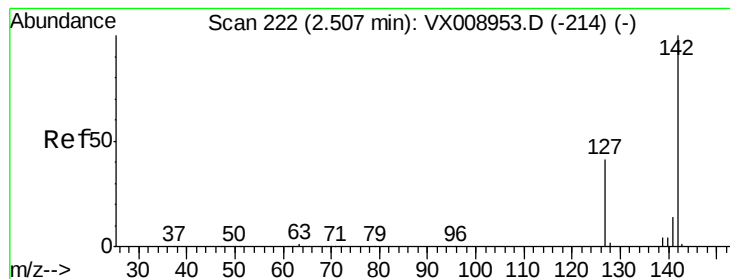
50

0

Time-->

1.55 1.60 1.65 1.70

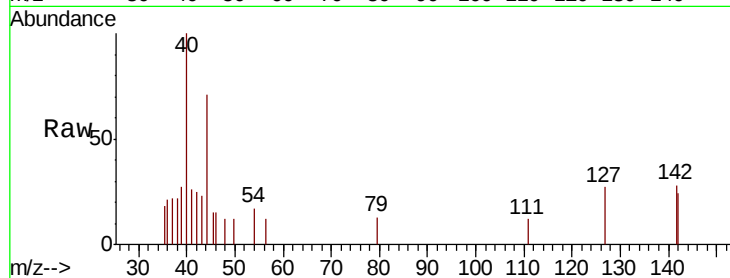




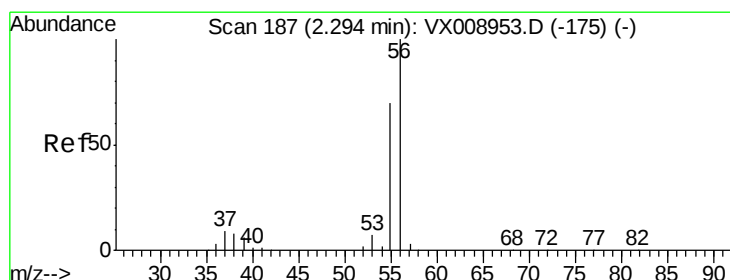
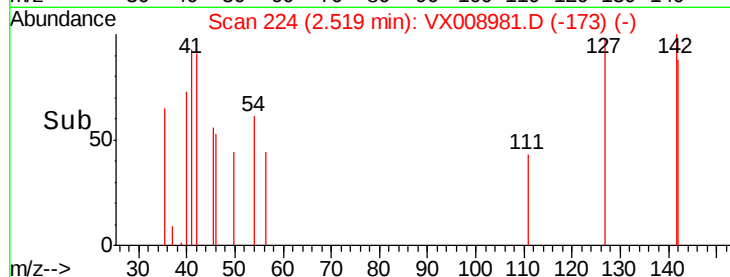
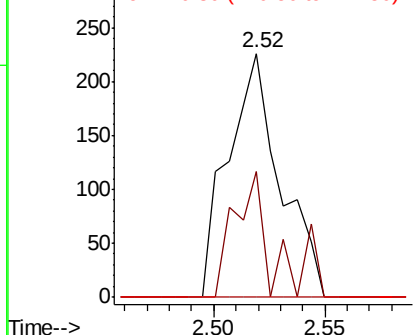
#10
Methvl Iodide
Concen: 4.529 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008981.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_X
ClientSampleId :
DUP-0508-190410DL

Tot Ion:142 Resp: 368
Ion Ratio Lower Upper
142 100
127 32.3 32.8 49.2#
141 0.0 11.4 17.2#

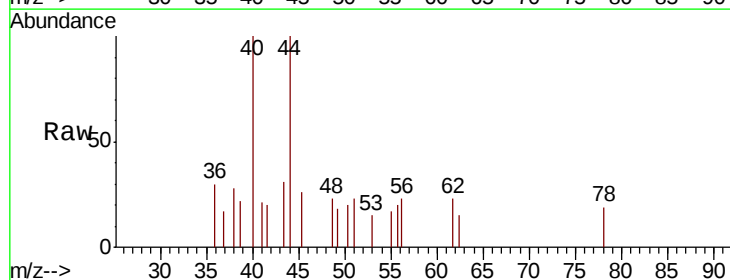


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

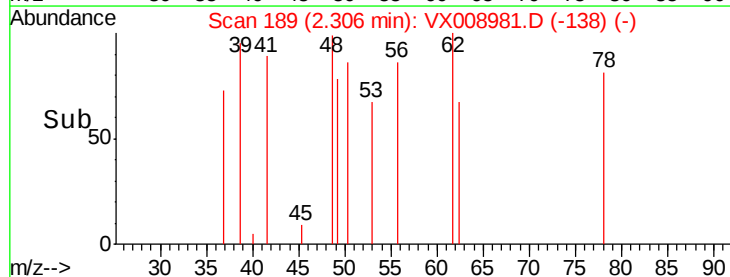
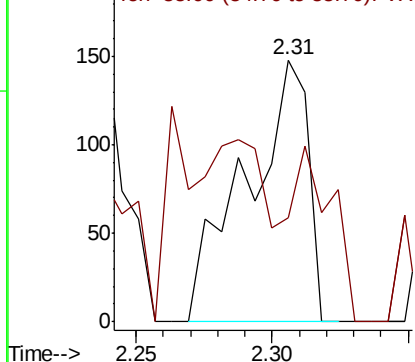


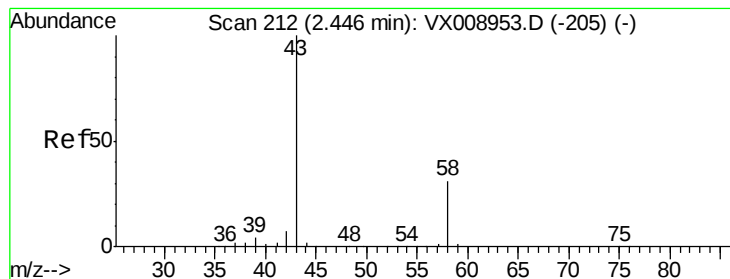
#13
Acrolein
Concen: 0.330 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX008981.D
Acq: 16 Apr 2019 12:45

Tgt Ion: 56 Resp: 233
Ion Ratio Lower Upper
56 100
55 36.9 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.385 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

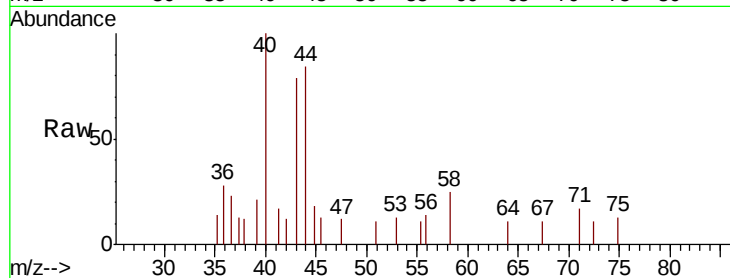
DUP-0508-190410DL

Tot Ion: 43 Resp: 734

Ion Ratio Lower Upper

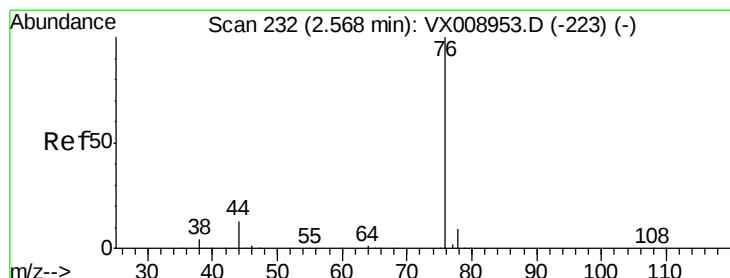
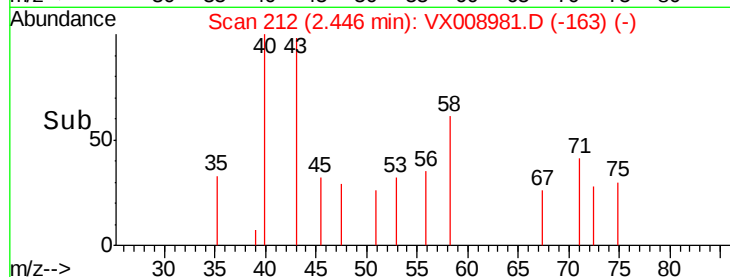
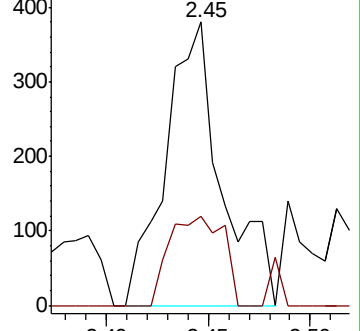
43 100

58 31.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.356 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008981.D

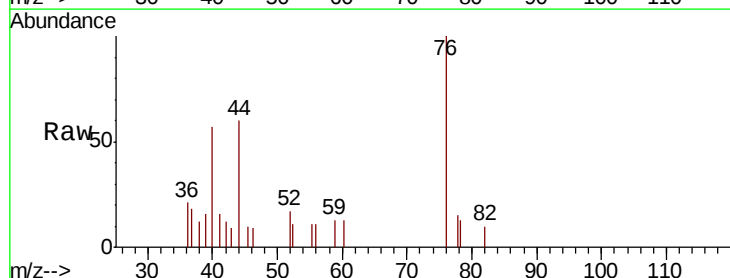
Acq: 16 Apr 2019 12:45

Tgt Ion: 76 Resp: 873

Ion Ratio Lower Upper

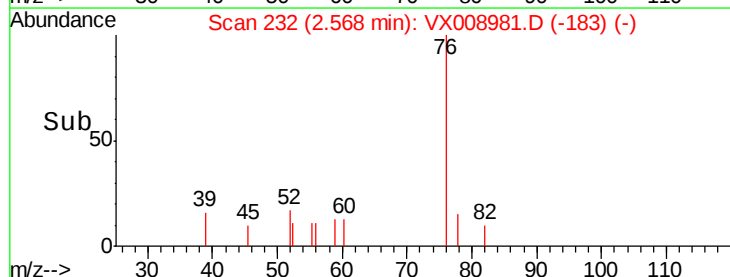
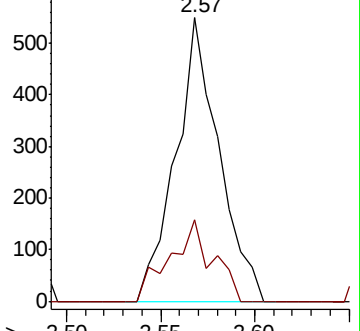
76 100

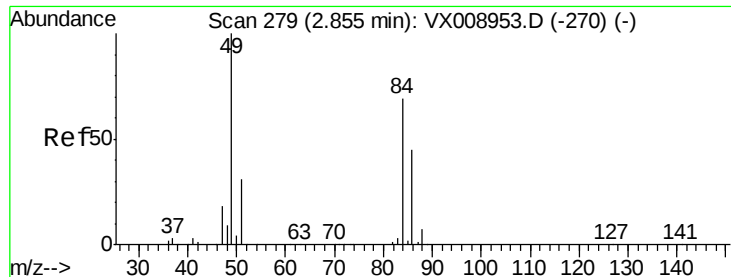
78 28.8 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

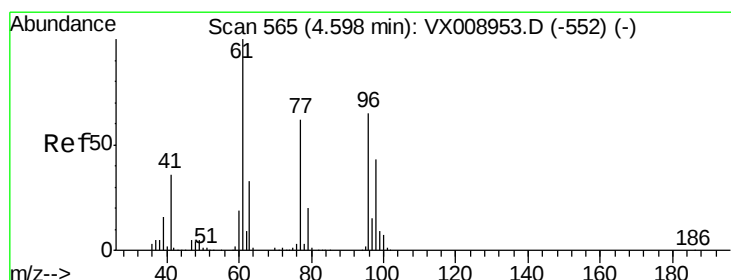
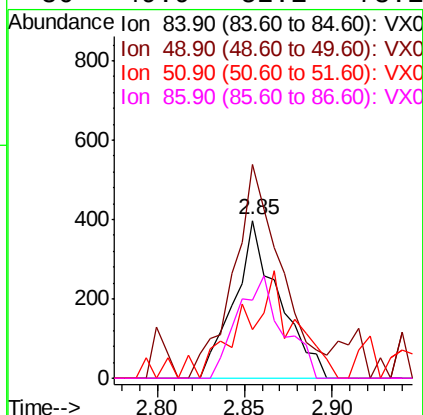
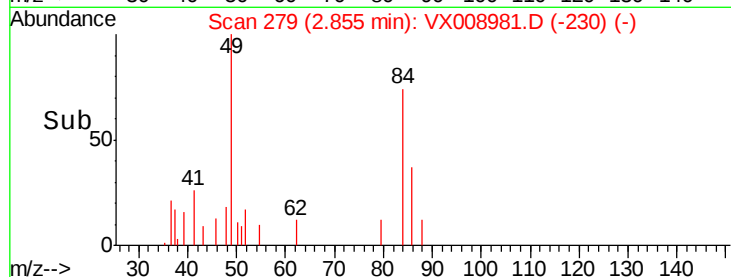
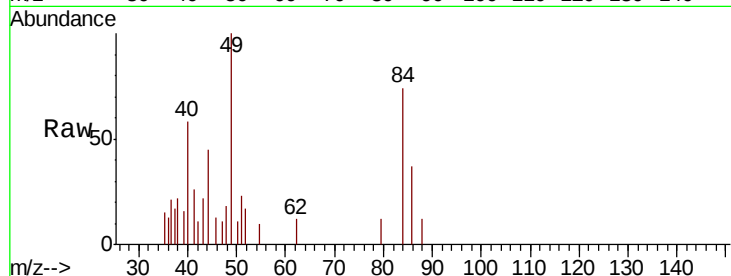




#20
Methvlene Chloride
Concen: 0.217 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008981.D
Acq: 16 Apr 2019 12:45

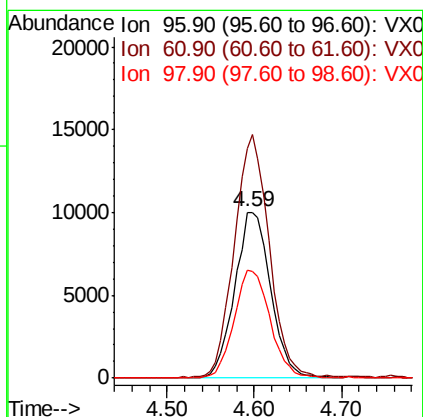
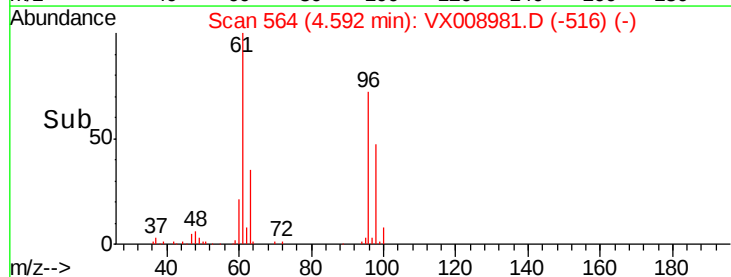
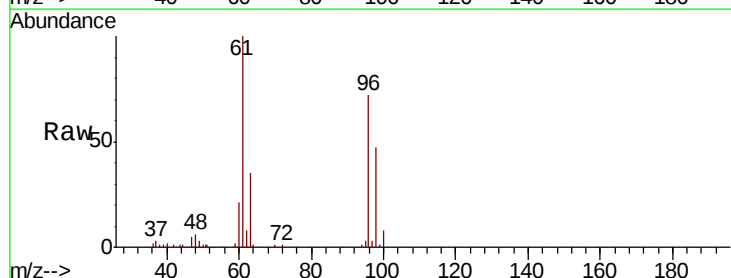
Instrument :
MSVOA_X
ClientSampleId :
DUP-0508-190410DL

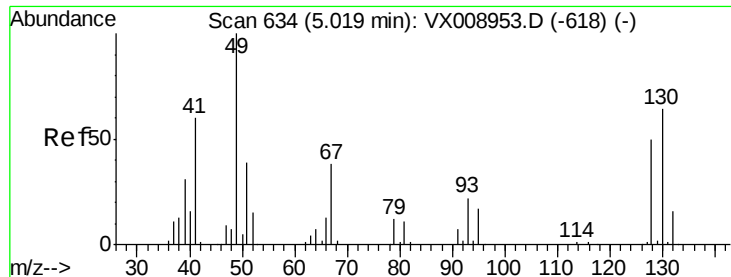
Tot Ion: 84 Resp: 708
Ion Ratio Lower Upper
84 100
49 121.7 115.4 173.0
51 31.0 35.8 53.6#
86 49.9 52.1 78.1#



#27
cis-1,2-Dichloroethene
Concen: 8.455 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX008981.D
Acq: 16 Apr 2019 12:45

Tgt Ion: 96 Resp: 28646
Ion Ratio Lower Upper
96 100
61 142.7 0.0 322.0
98 65.3 0.0 128.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

DUP-0508-190410DL

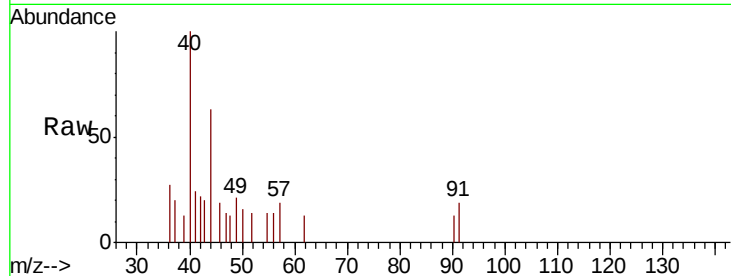
Tot Ion: 49 Resp: 52

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

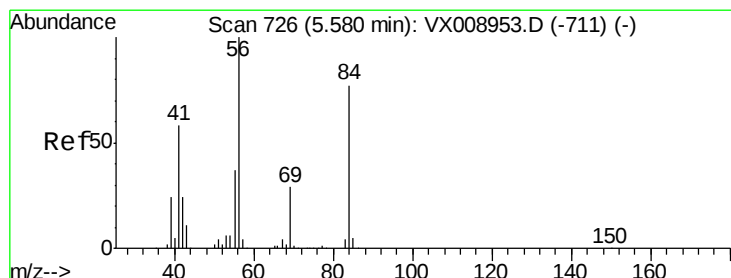
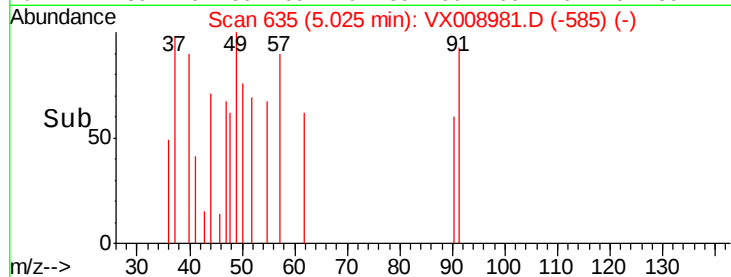
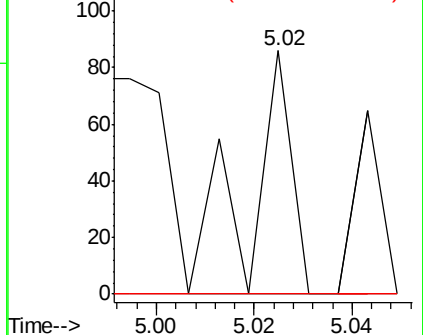
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.021 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

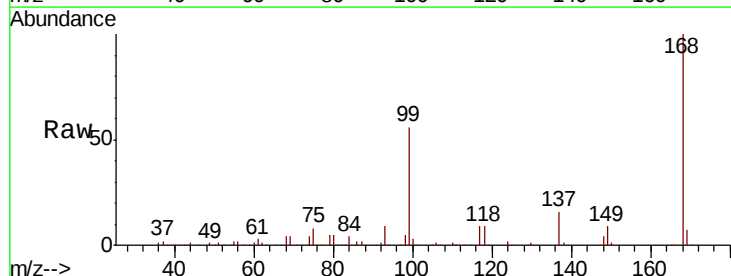
Tgt Ion: 56 Resp: 5979

Ion Ratio Lower Upper

56 100

69 159.2 23.3 34.9#

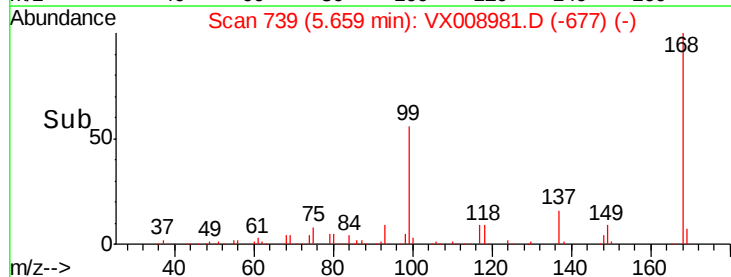
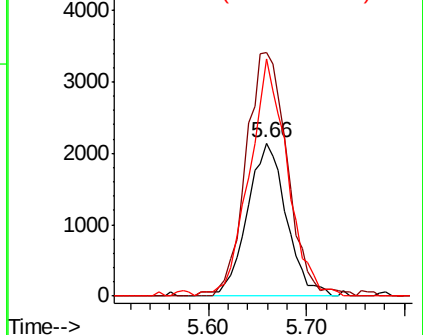
84 152.7 61.7 92.5#

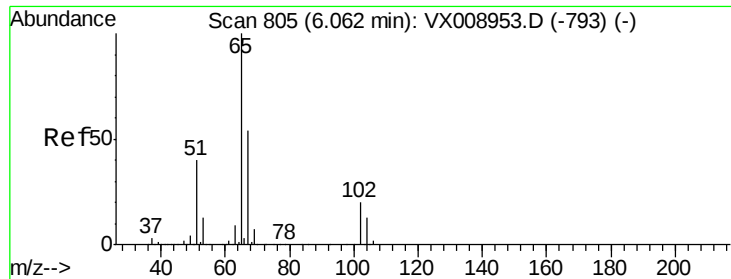


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.808 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

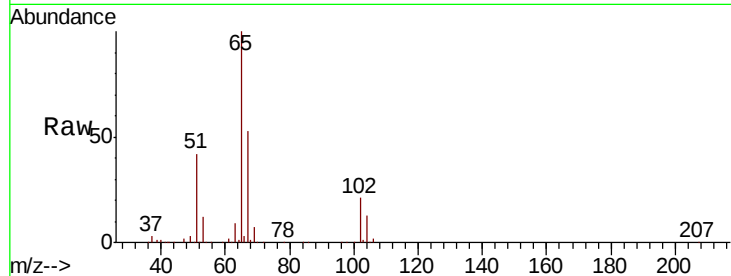
DUP-0508-190410DL

Tot Ion: 65 Resp: 168419

Ion Ratio Lower Upper

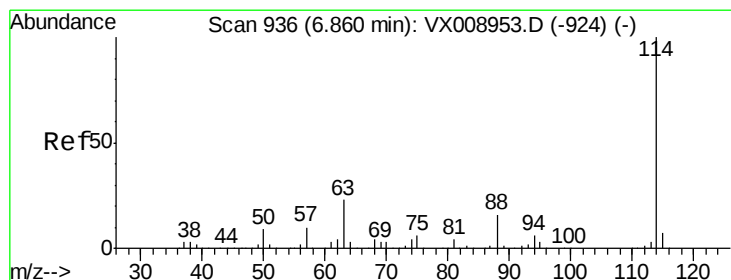
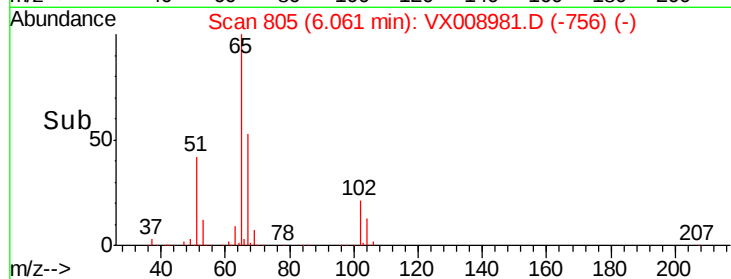
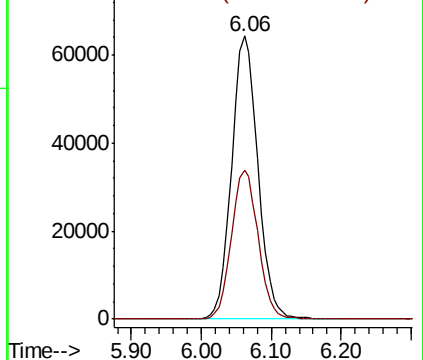
65 100

67 53.4 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

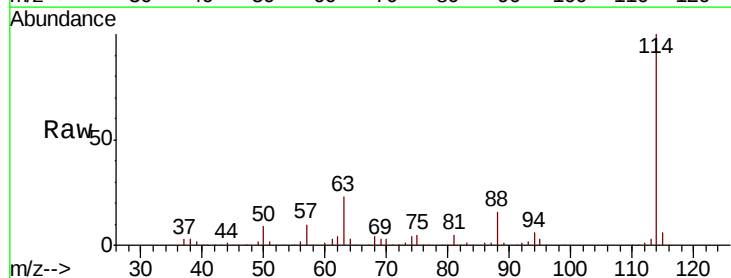
Tgt Ion: 114 Resp: 413332

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.0

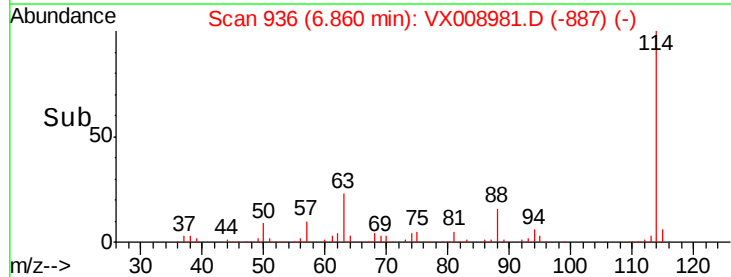
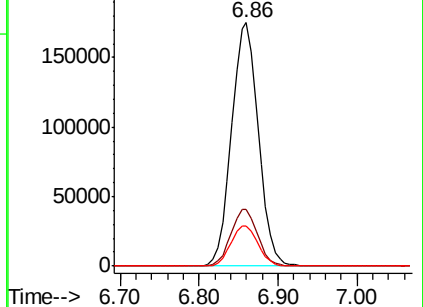
88 16.4 0.0 32.6

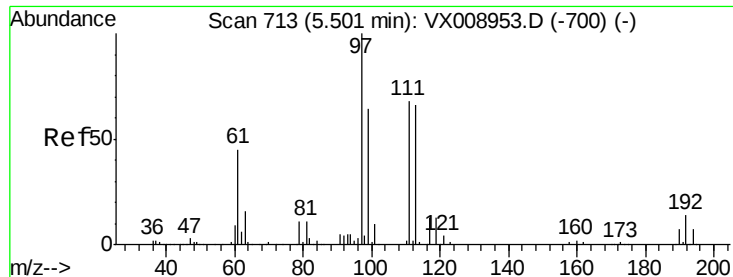


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

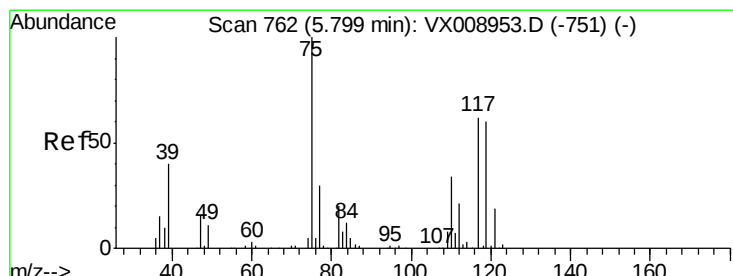
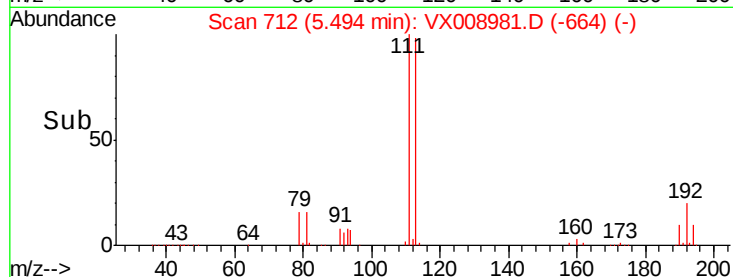
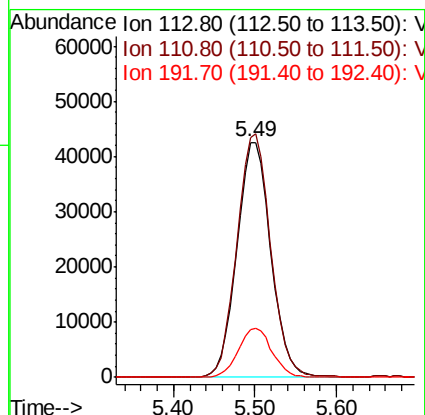
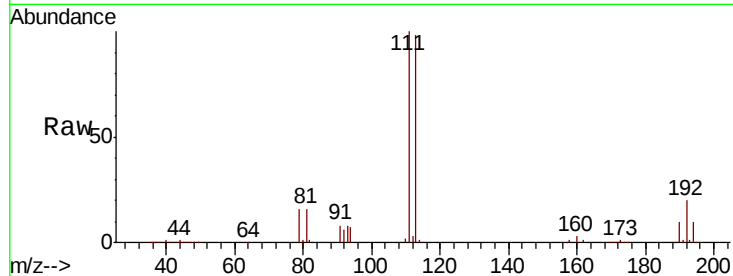




#35
 Dibromofluoromethane
 Concen: 46.091 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX008981.D
 Acq: 16 Apr 2019 12:45

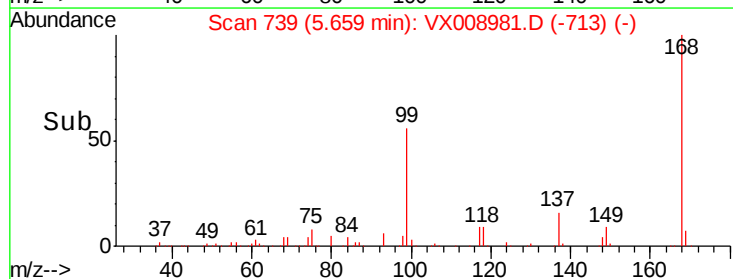
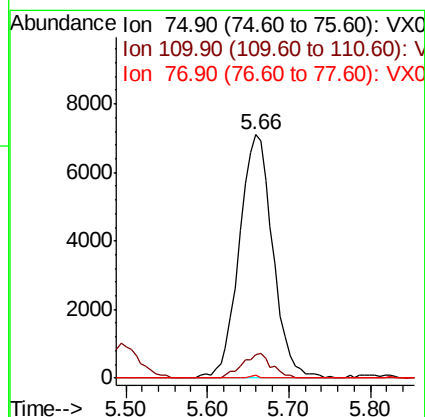
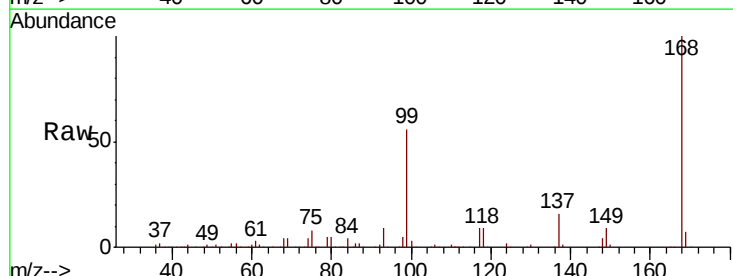
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0508-190410DL

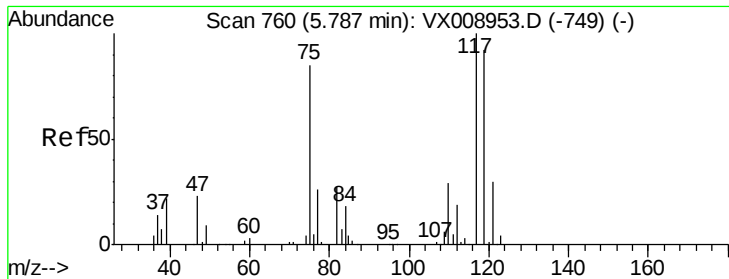
Tot Ion:113 Resp: 122264
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.9 124.3
 192 21.0 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.715 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008981.D
 Acq: 16 Apr 2019 12:45

Tgt Ion: 75 Resp: 20157
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.7#
 77 0.2 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.861 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

DUP-0508-190410DL

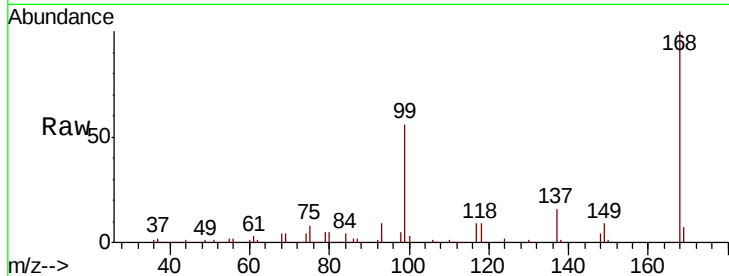
Tot Ion:117 Resp: 24865

Ion Ratio Lower Upper

117 100

119 5.4 73.8 110.8#

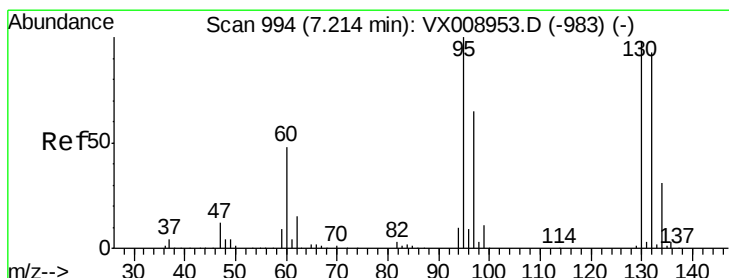
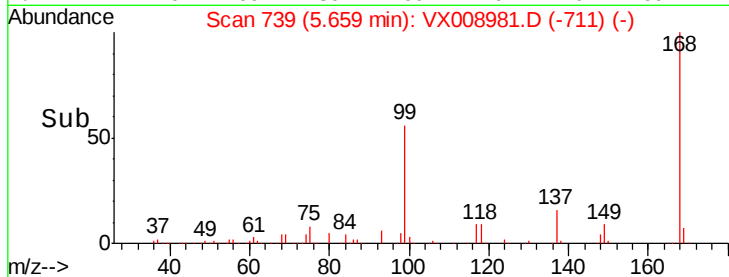
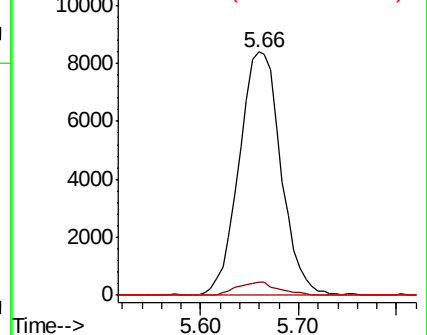
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 9.429 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008981.D

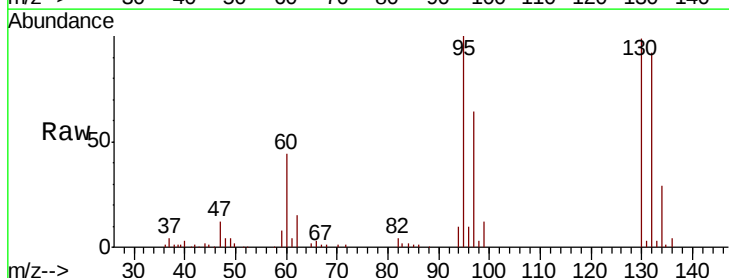
Acq: 16 Apr 2019 12:45

Tgt Ion:130 Resp: 29135

Ion Ratio Lower Upper

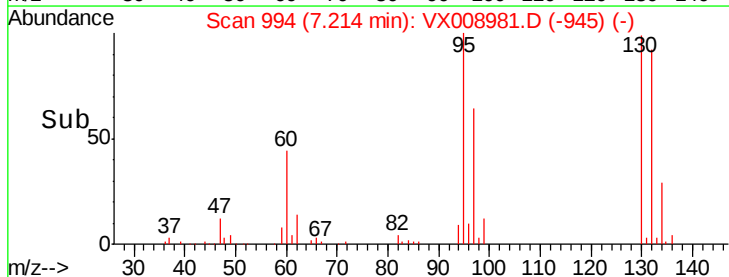
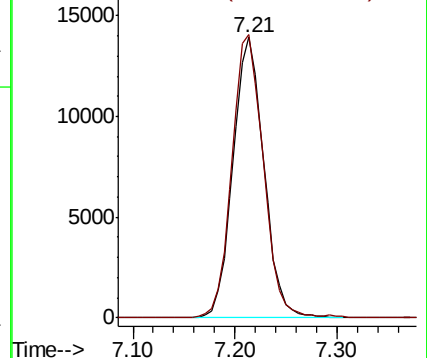
130 100

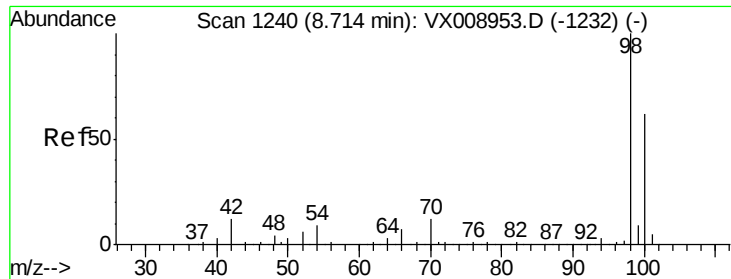
95 101.0 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.304 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

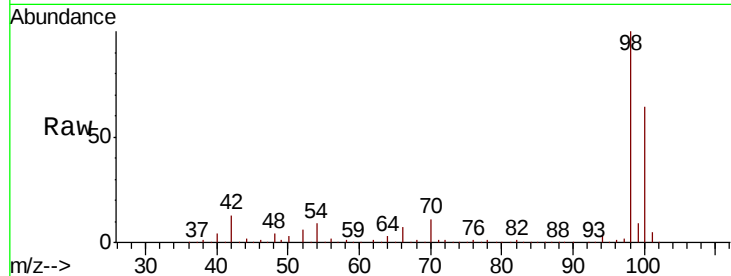
DUP-0508-190410DL

Tot Ion: 98 Resp: 521584

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

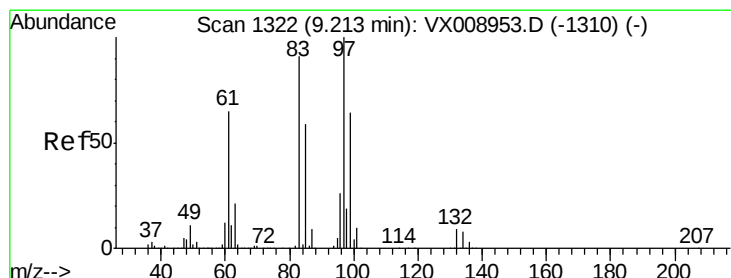
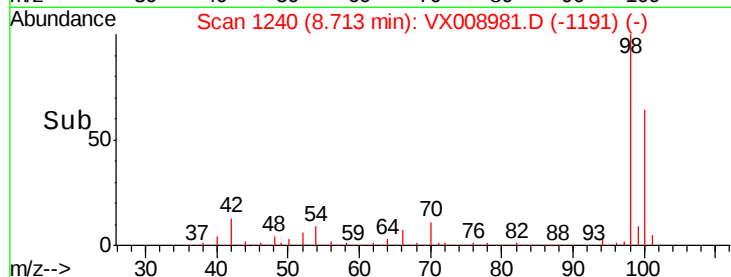
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#55

1,1,2-Trichloroethane

Concen: 0.304 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Tgt Ion: 97 Resp: 911

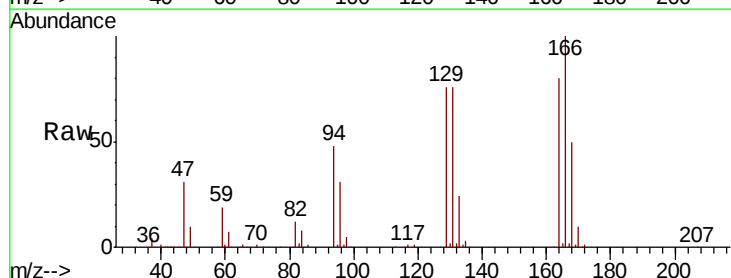
Ion Ratio Lower Upper

97 100

83 212.8 72.6 108.8#

85 38.1 46.9 70.3#

99 11.7 51.0 76.6#



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

2500

2000

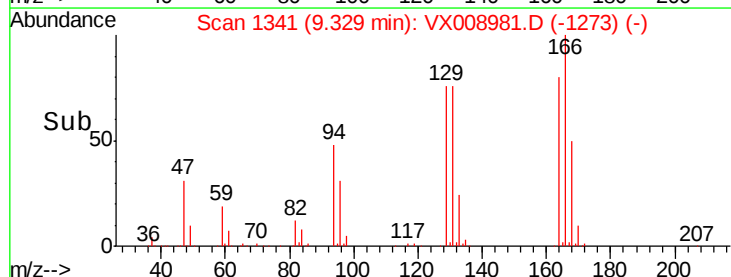
1500

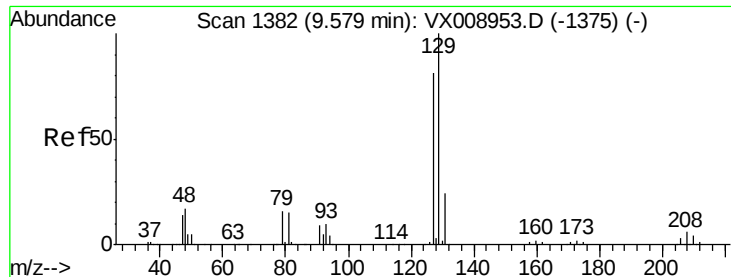
1000

500

0

Time--> 9.30 9.35

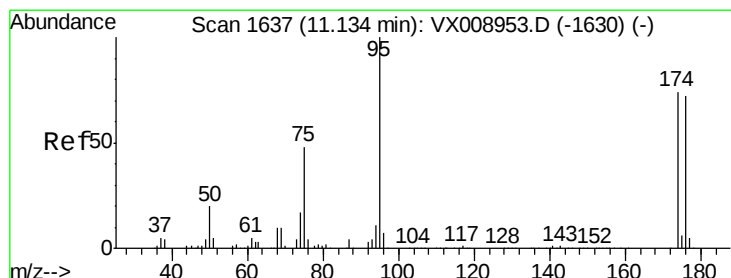
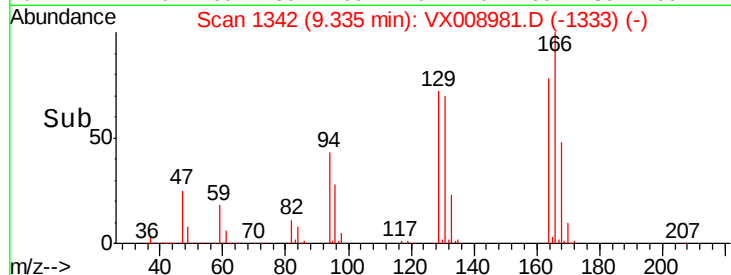
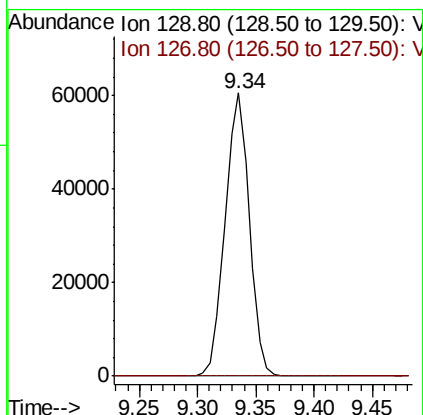
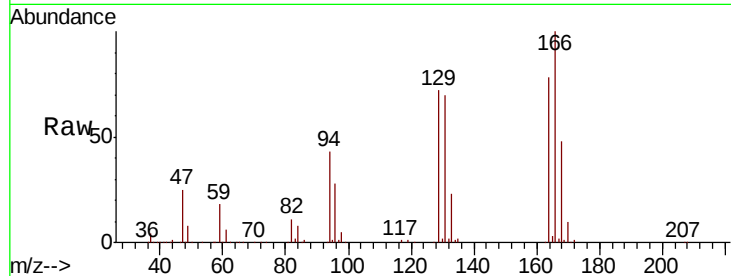




#60
 Dibromochloromethane
 Concen: 30.474 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008981.D
 Acq: 16 Apr 2019 12:45

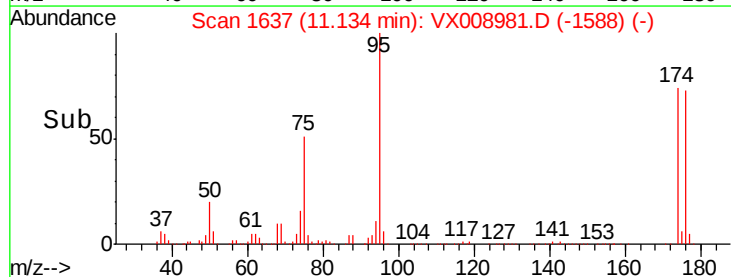
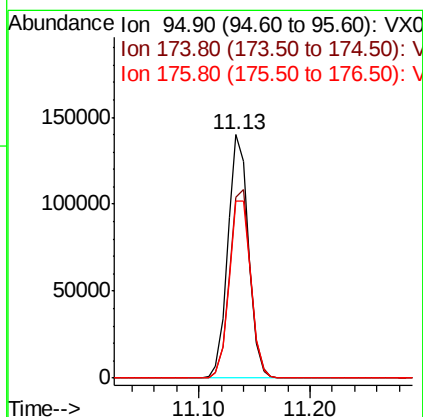
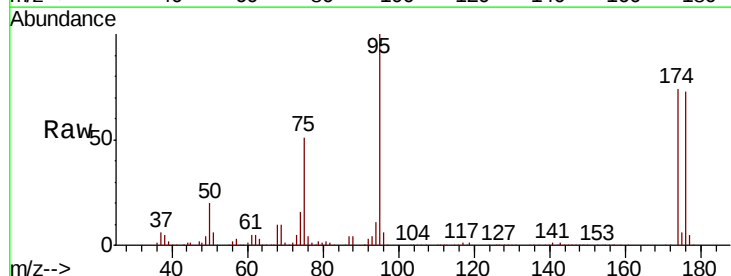
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0508-190410DL

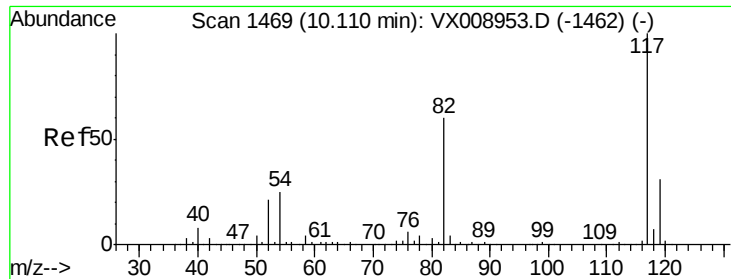
Tot Ion:129 Resp: 87487
 Ion Ratio Lower Upper
 129 100
 127 0.1 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 47.964 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008981.D
 Acq: 16 Apr 2019 12:45

Tgt Ion: 95 Resp: 179116
 Ion Ratio Lower Upper
 95 100
 174 79.1 0.0 159.6
 176 76.6 0.0 154.8

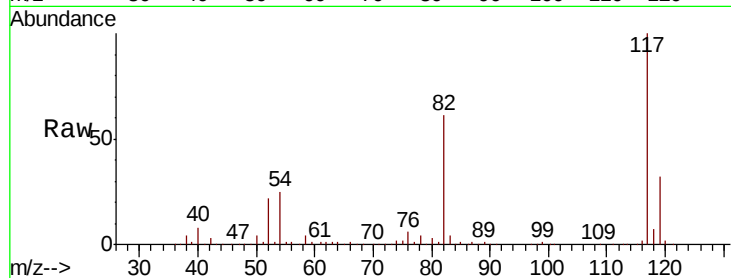




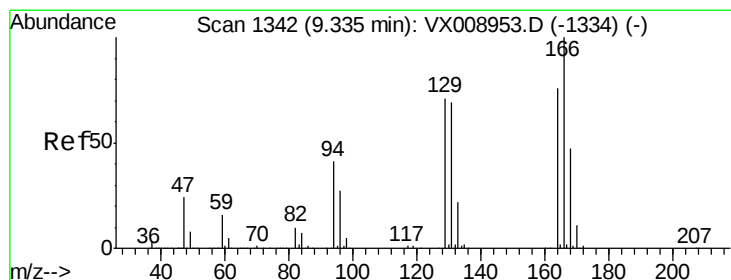
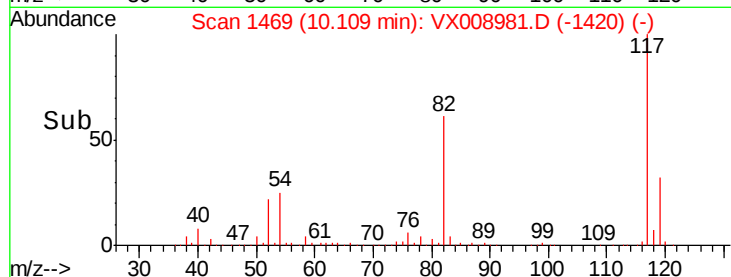
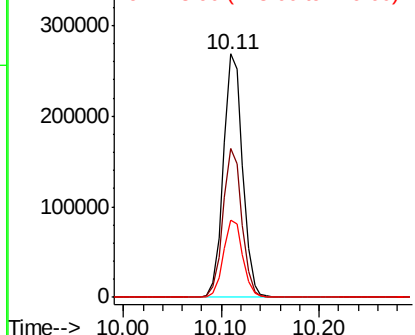
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008981.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_X
ClientSampleId :
DUP-0508-190410DL

Tot Ion:117 Resp: 365431
Ion Ratio Lower Upper
117 100
82 61.1 48.2 72.4
119 31.9 25.0 37.6

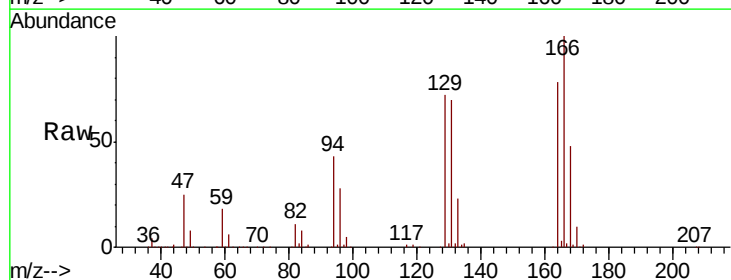


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

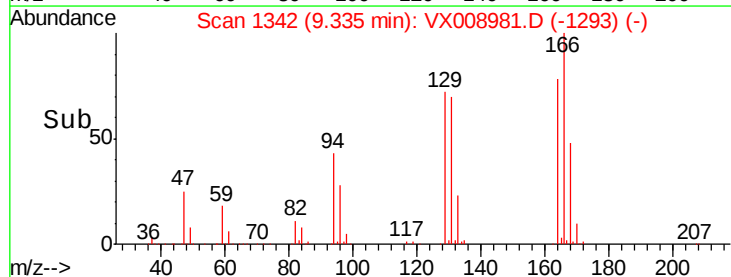
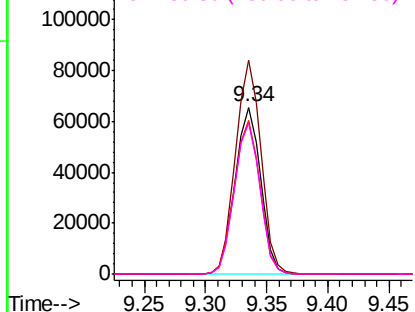


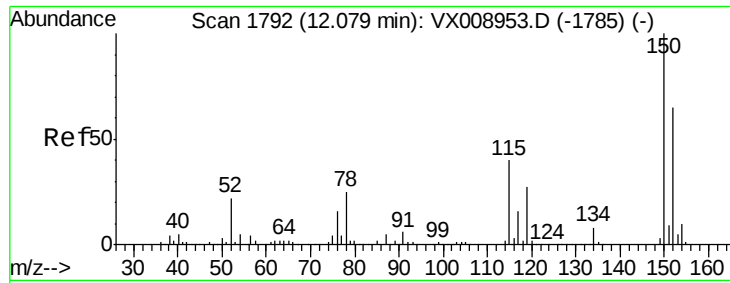
#64
Tetrachloroethene
Concen: 34.017 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008981.D
Acq: 16 Apr 2019 12:45

Tgt Ion:164 Resp: 94434
Ion Ratio Lower Upper
164 100
166 128.2 105.0 157.4
129 92.4 74.2 111.4
131 90.3 72.2 108.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

DUP-0508-190410DL

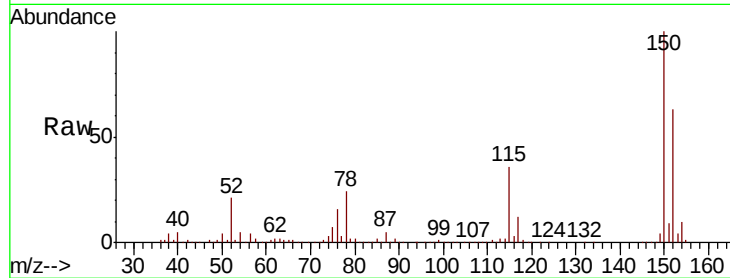
Tot Ion:152 Resp: 162503

Ion Ratio Lower Upper

152 100

115 58.7 41.4 124.2

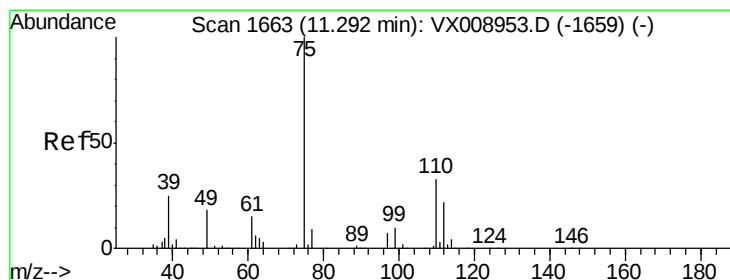
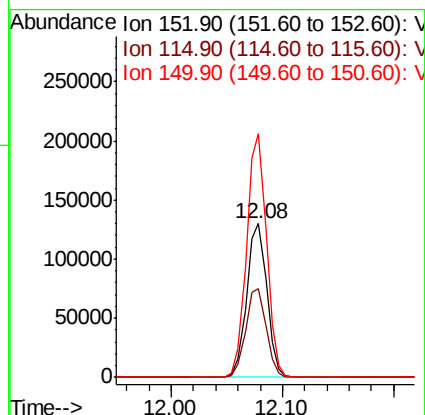
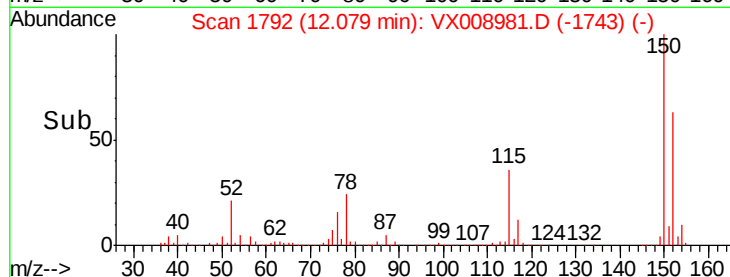
150 156.8 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.922 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008981.D

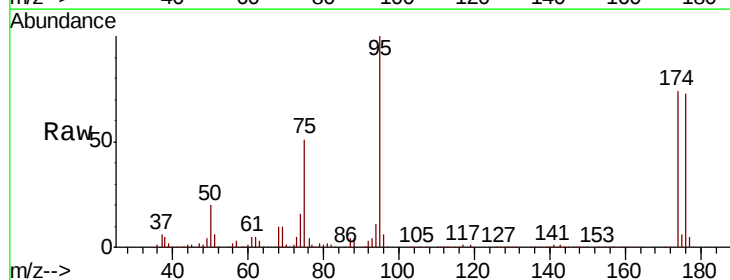
Acq: 16 Apr 2019 12:45

Tgt Ion: 75 Resp: 90955

Ion Ratio Lower Upper

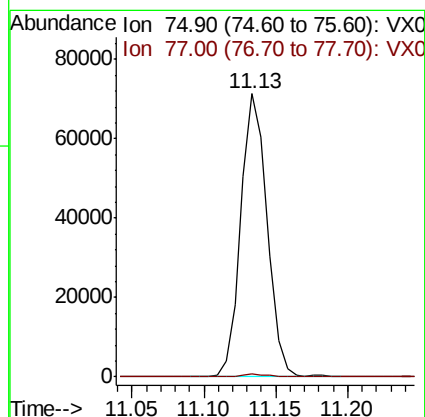
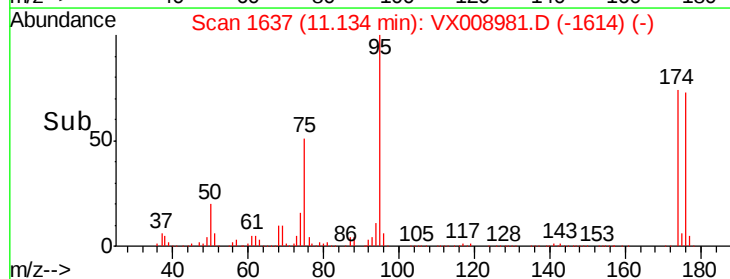
75 100

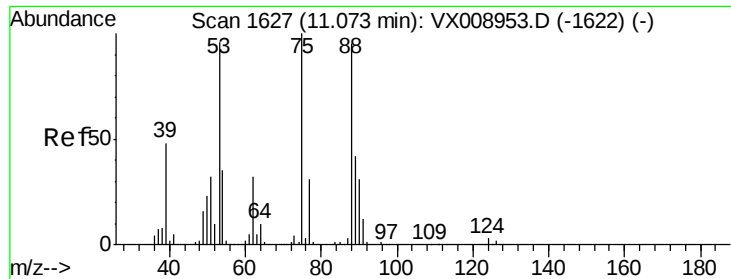
77 1.1 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.847 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008981.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_X

ClientSampleId :

DUP-0508-190410DL

Tot Ion: 75 Resp: 90955

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 36.0 54.0#

