

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008098.D
 Acq On : 15 Mar 2019 04:13
 Operator : JC/SP
 Sample : K1839-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20190308

Quant Time: Mar 15 05:44:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	291873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	446115	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	427236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210234	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	148514	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
35) Dibromofluoromethane	5.51	113	142756	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
50) Toluene-d8	8.71	98	540336	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.13	95	198414	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	

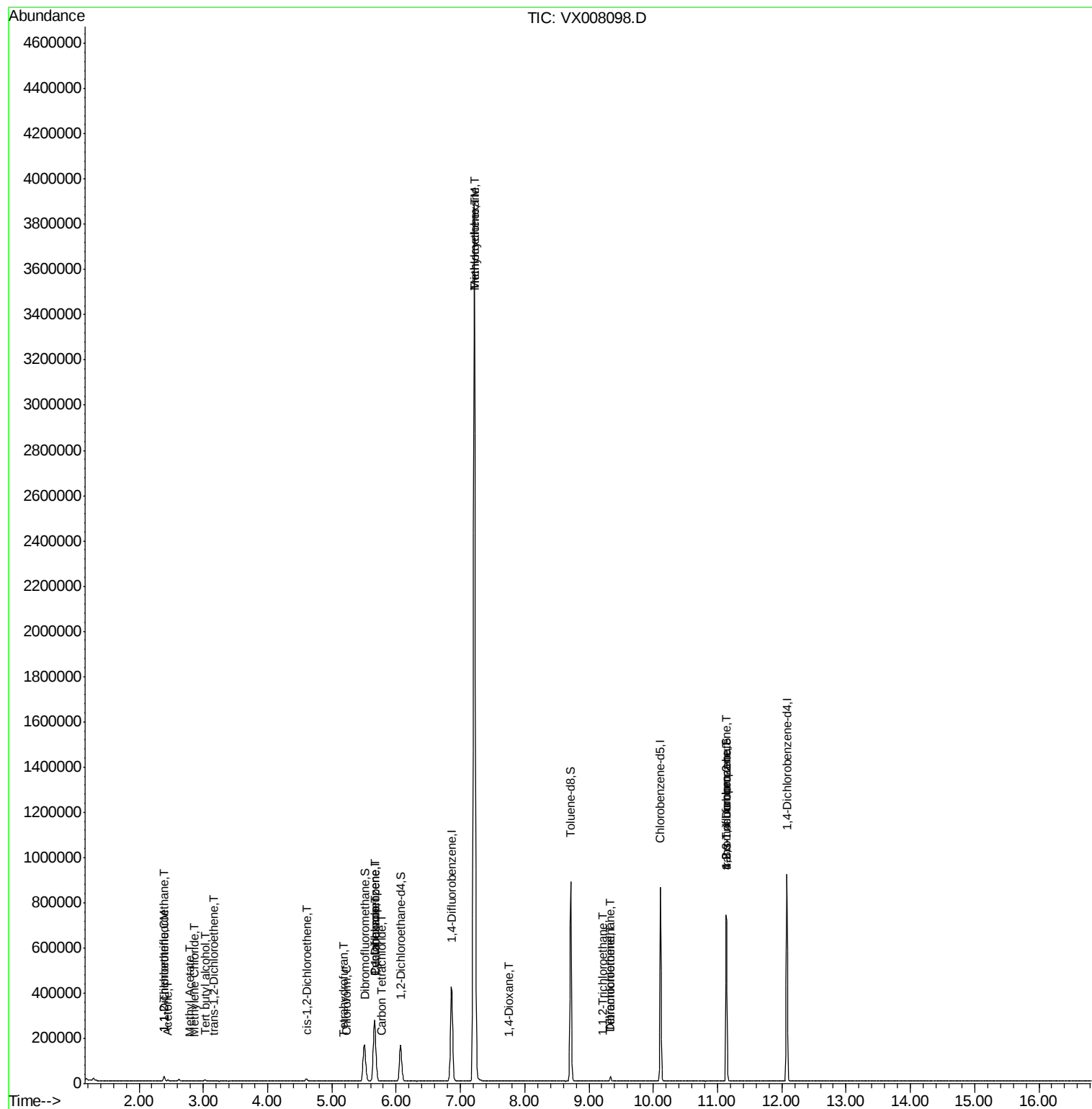
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	255	Below Cal	#	78
6) Chloroethane	1.71	64	188	Below Cal		98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	7755	3.294	ug/l	95
11) Tert butyl alcohol	3.03	59	3858	6.782	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	868	0.390	ug/l #	78
16) Acetone	2.45	43	3809	2.740	ug/l	95
18) Methyl Acetate	2.78	43	648	0.216	ug/l #	89
20) Methylene Chloride	2.87	84	583	0.235	ug/l #	82
21) trans-1,2-Dichloroethene	3.17	96	1022	0.426	ug/l #	68
27) cis-1,2-Dichloroethene	4.60	96	6840	2.400	ug/l	87
29) Tetrahydrofuran	5.17	42	640	0.481	ug/l #	42
30) Chloroform	5.22	83	2214	0.495	ug/l	88
31) Cyclohexane	5.67	56	3943	0.937	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17006	4.634	ug/l #	49
38) Carbon Tetrachloride	5.78	117	1938	0.549	ug/l #	92
39) Methylcyclohexane	7.21	83	16425	3.501	ug/l #	1
44) Trichloroethene	7.21	130	1614537	497.573	ug/l	99
49) 1,4-Dioxane	7.76	88	892	12.466	ug/l	96
55) 1,1,2-Trichloroethane	9.22	97	897	0.308	ug/l	98
60) Dibromochloromethane	9.34	129	4306	1.436	ug/l #	11
64) Tetrachloroethene	9.34	164	4519	1.305	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	87650	24.006	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	87650	68.313	ug/l #	11

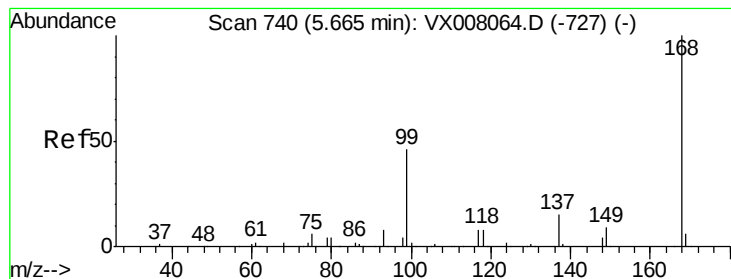
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031419\
Data File : VX008098.D
Acq On : 15 Mar 2019 04:13
Operator : JC/SP
Sample : K1839-10
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190308

Quant Time: Mar 15 05:44:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 15 03:56:35 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

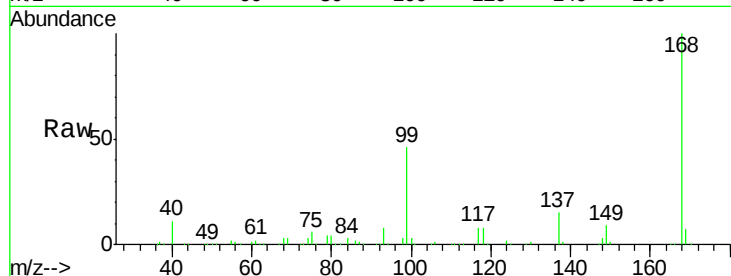
DUP03-20190308

Tot Ion:168 Resp: 291873

Ion Ratio Lower Upper

168 100

99 45.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

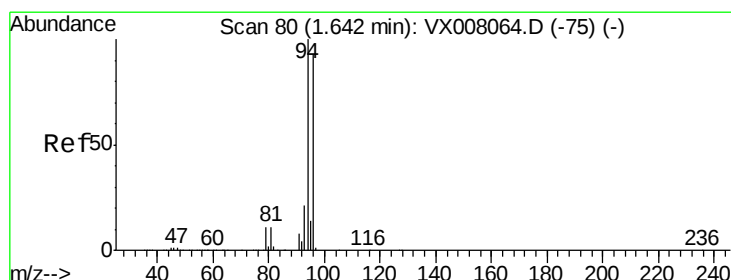
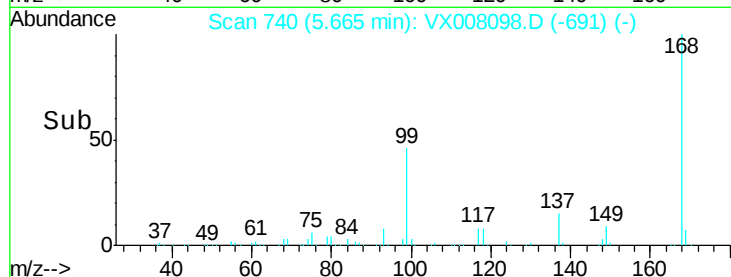
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX008098.D

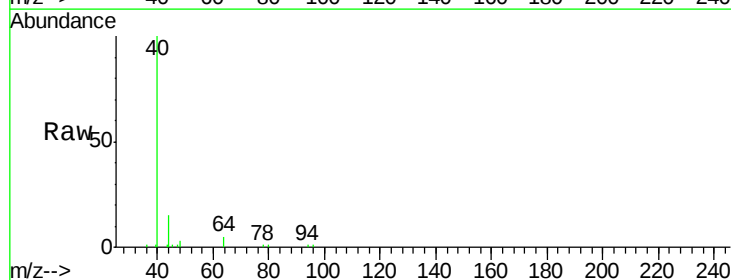
Acq: 15 Mar 2019 04:13

Tgt Ion: 94 Resp: 255

Ion Ratio Lower Upper

94 100

96 73.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

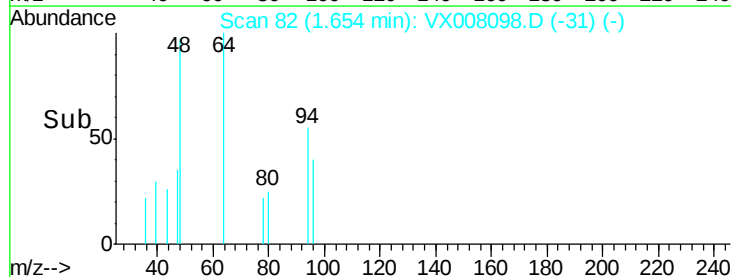
150

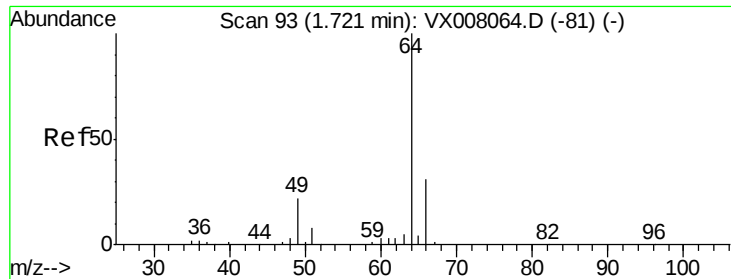
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

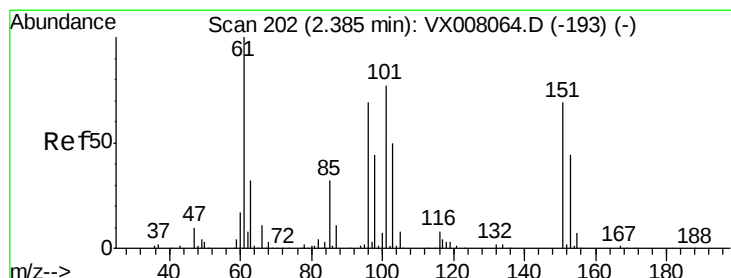
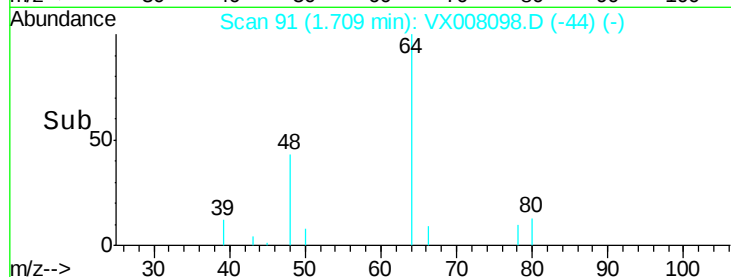
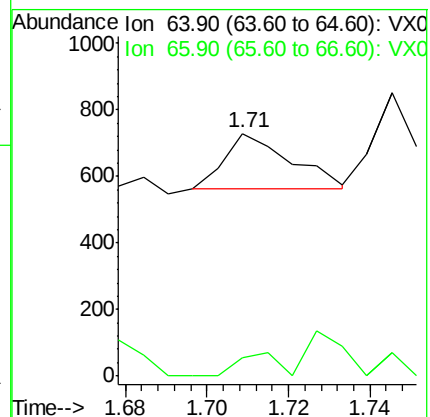
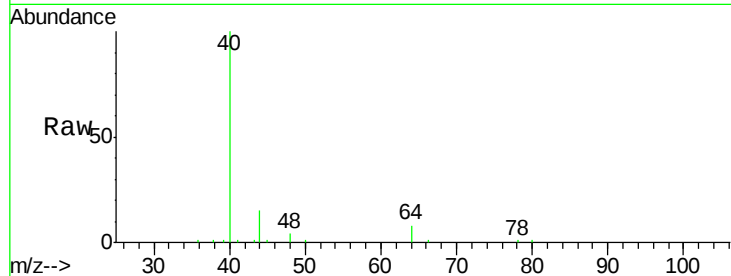
DUP03-20190308

Tot Ion: 64 Resp: 188

Ion Ratio Lower Upper

64 100

66 32.3 25.2 37.8



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.294 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

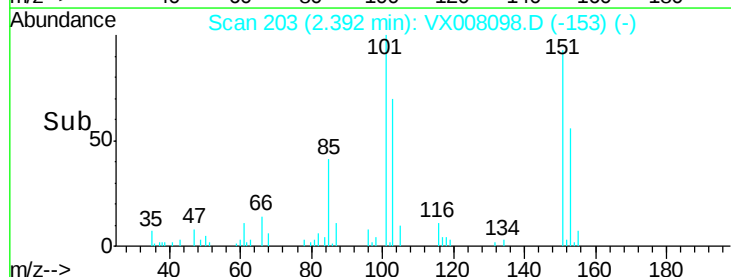
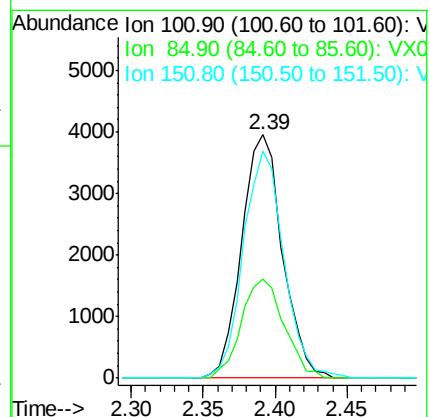
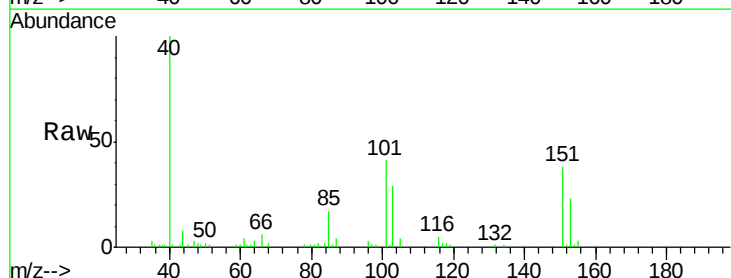
Tgt Ion:101 Resp: 7755

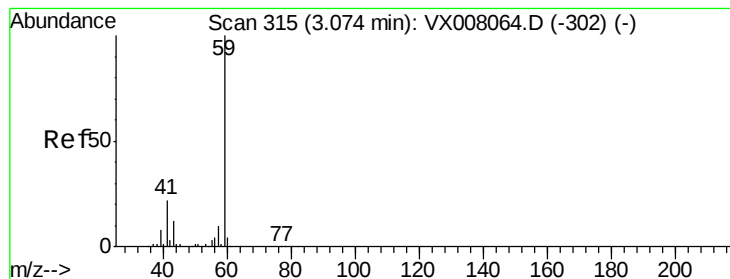
Ion Ratio Lower Upper

101 100

85 42.5 33.8 50.6

151 92.9 69.1 103.7



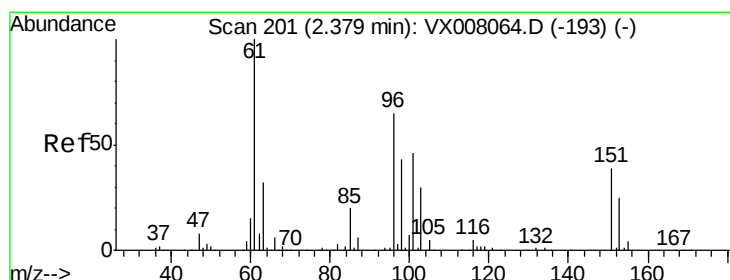
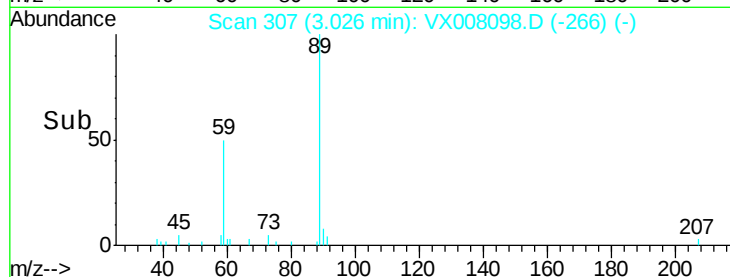
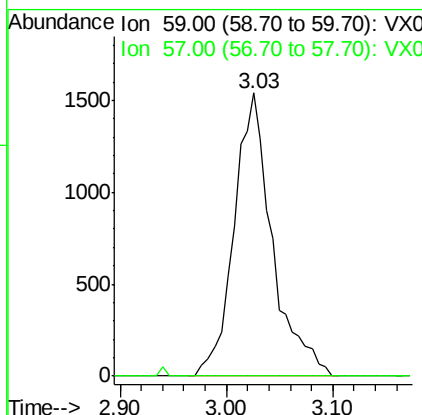
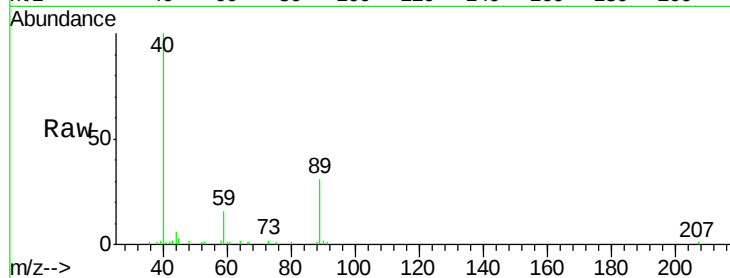


#11

Tert butyl alcohol
 Concen: 6.782 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX008098.D
 Acq: 15 Mar 2019 04:13

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20190308

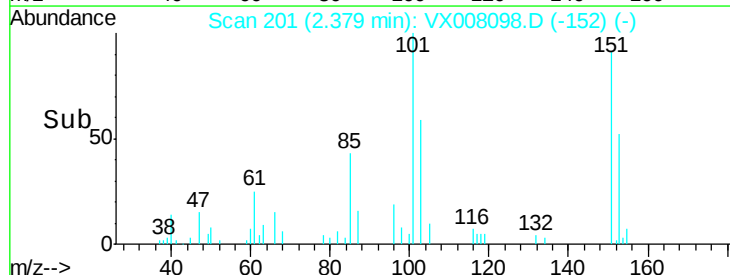
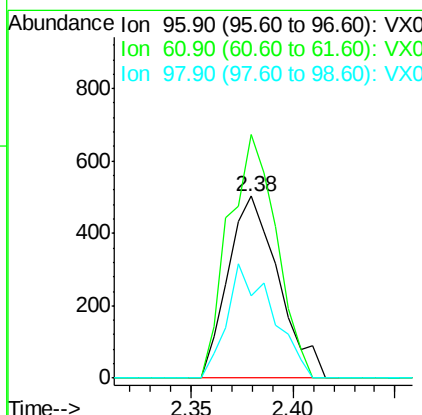
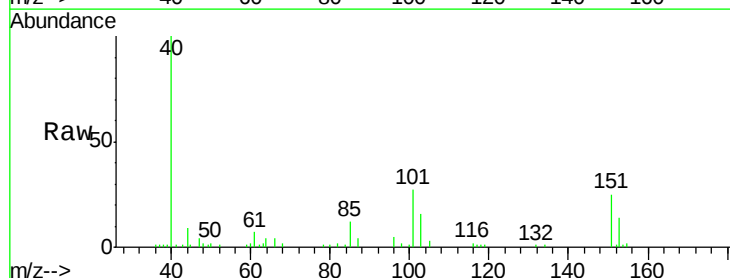
Tot Ion: 59 Resp: 3858
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

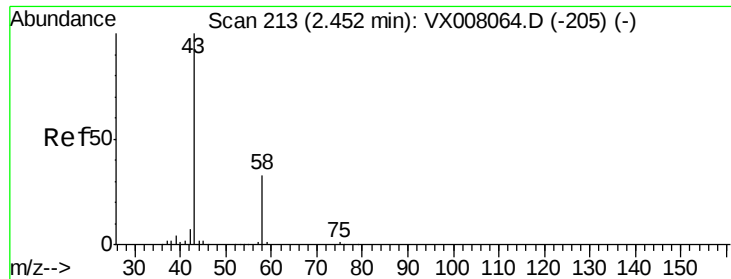


#12

1,1-Dichloroethene
 Concen: 0.390 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.00 min
 Lab File: VX008098.D
 Acq: 15 Mar 2019 04:13

Tgt Ion: 96 Resp: 868
 Ion Ratio Lower Upper
 96 100
 61 134.1 129.8 194.6
 98 45.6 51.0 76.6#





#16

Acetone

Concen: 2.740 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

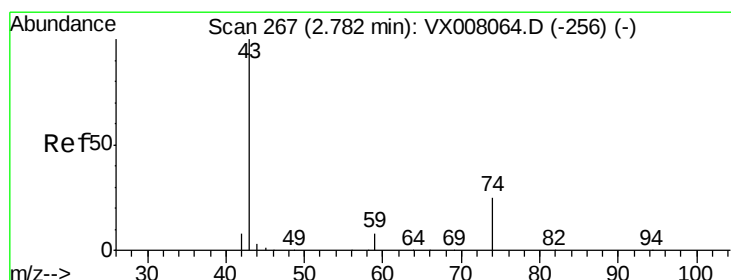
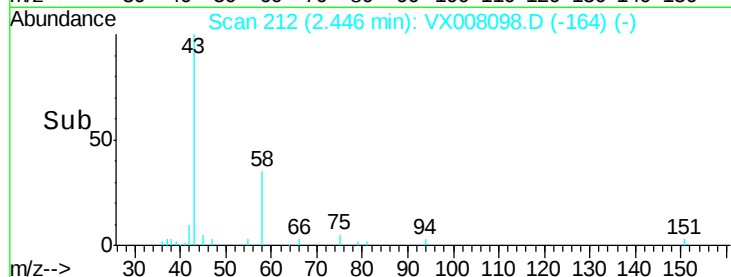
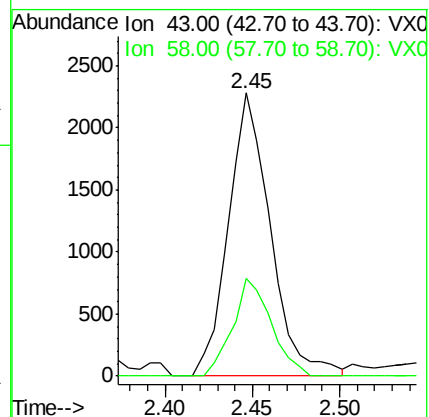
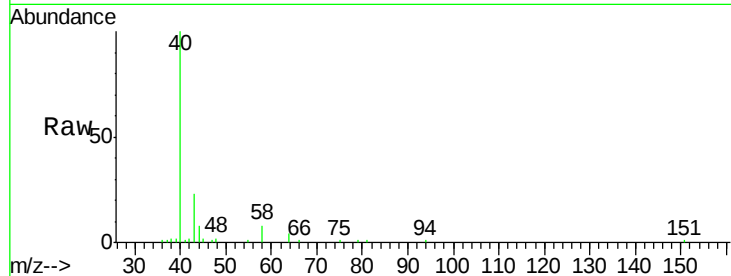
DUP03-20190308

Tot Ion: 43 Resp: 3809

Ion Ratio Lower Upper

43 100

58 34.7 25.5 38.3



#18

Methyl Acetate

Concen: 0.216 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX008098.D

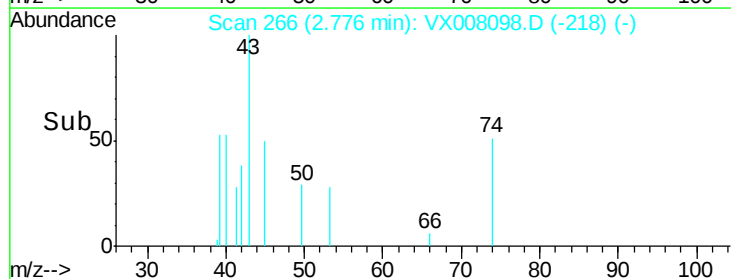
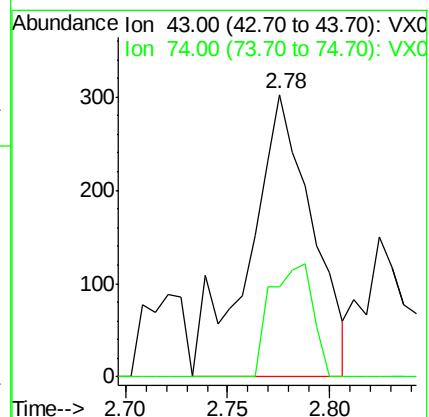
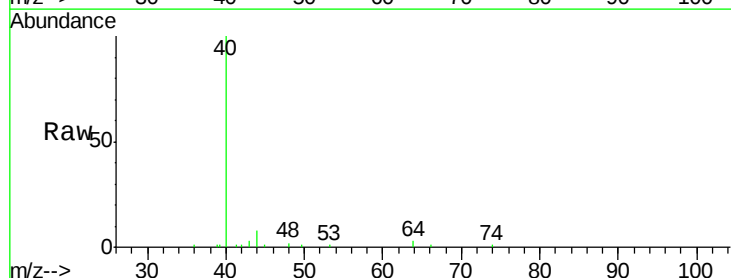
Acq: 15 Mar 2019 04:13

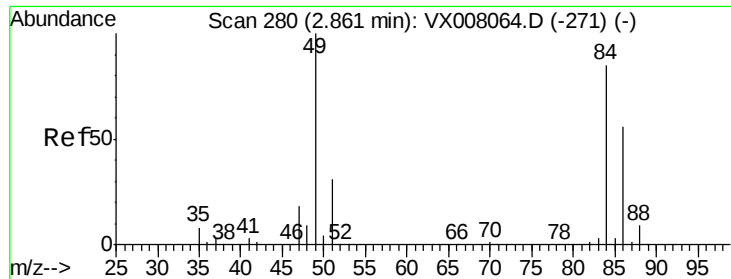
Tgt Ion: 43 Resp: 648

Ion Ratio Lower Upper

43 100

74 27.3 17.8 26.6#

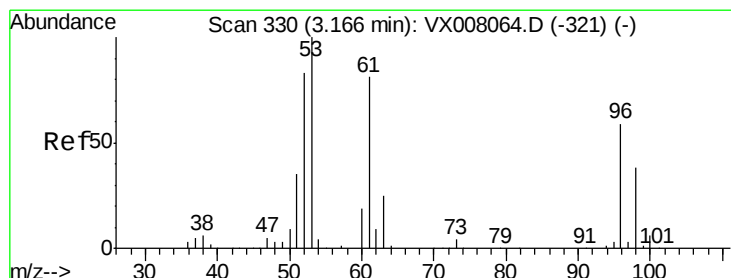
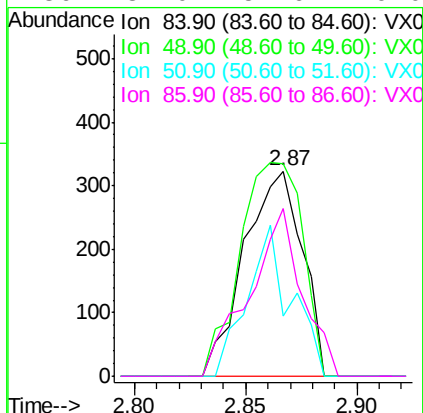
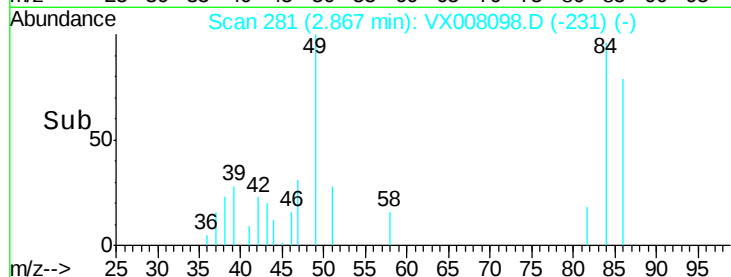
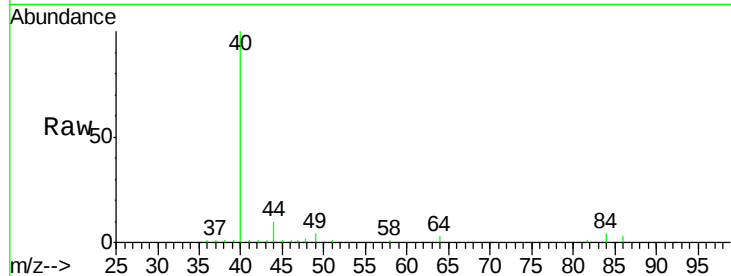




#20
Methylene Chloride
Concen: 0.235 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX008098.D
Acq: 15 Mar 2019 04:13

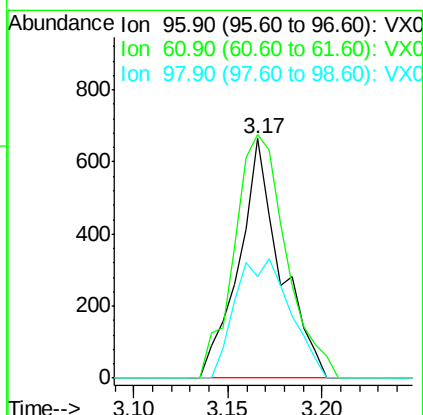
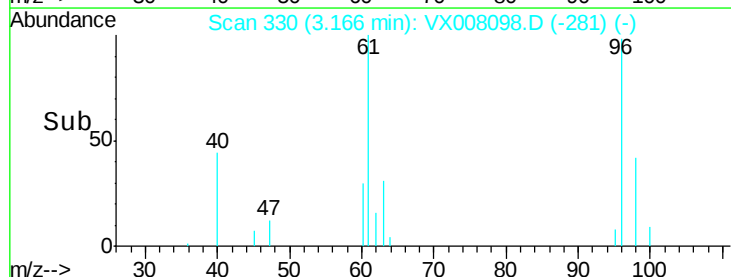
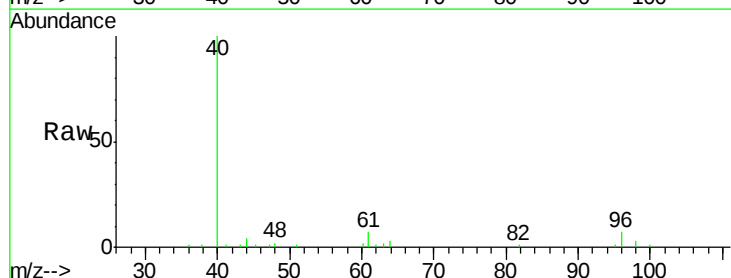
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190308

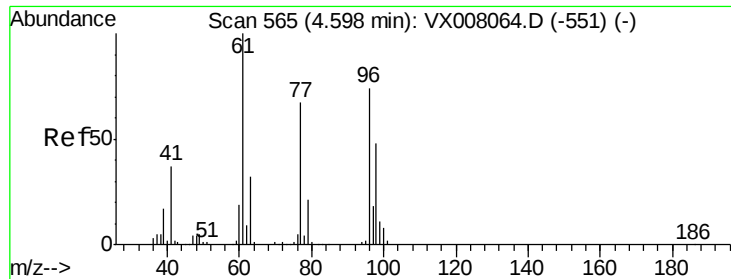
Tot Ion: 84 Resp: 583
Ion Ratio Lower Upper
84 100
49 103.7 99.3 148.9
51 29.4 31.3 46.9#
86 82.0 52.6 79.0#



#21
trans-1,2-Dichloroethene
Concen: 0.426 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX008098.D
Acq: 15 Mar 2019 04:13

Tgt Ion: 96 Resp: 1022
Ion Ratio Lower Upper
96 100
61 101.7 114.4 171.6#
98 42.6 51.1 76.7#



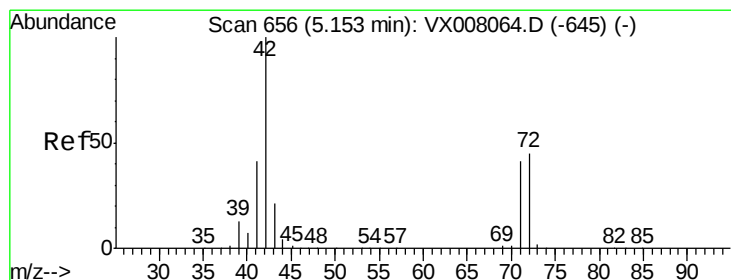
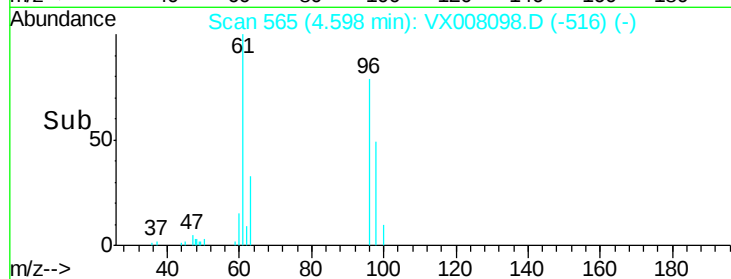
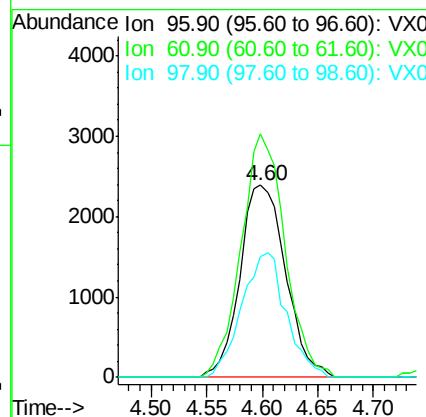
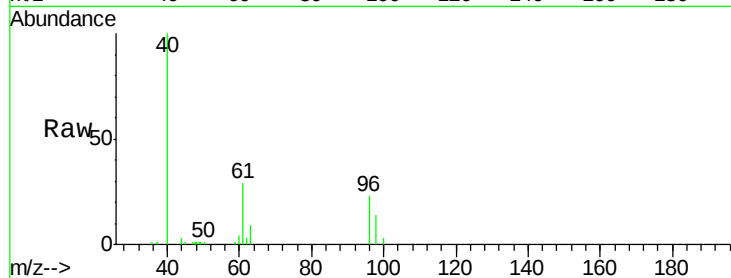


#27

cis-1,2-Dichloroethene
 Concen: 2.400 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX008098.D
 Acq: 15 Mar 2019 04:13

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20190308

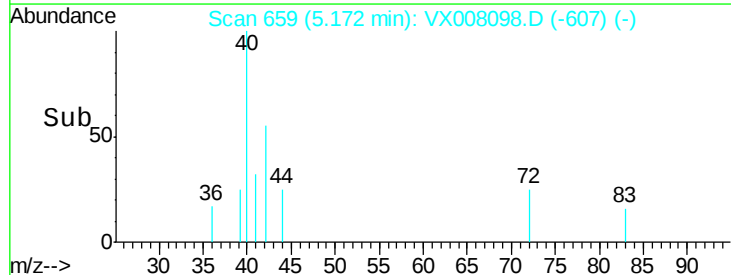
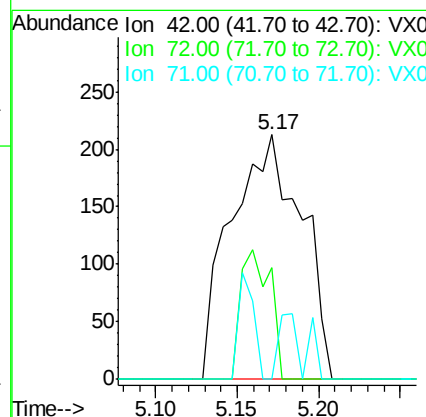
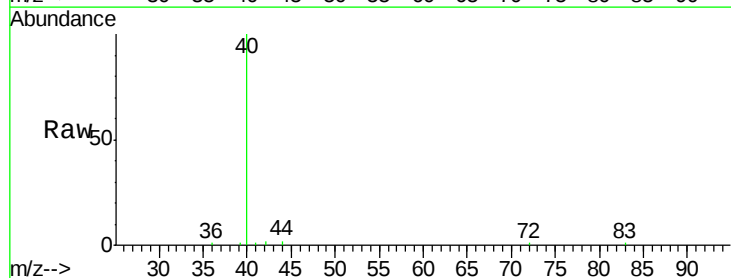
Tot Ion: 96 Resp: 6840
 Ion Ratio Lower Upper
 96 100
 61 121.6 0.0 288.0
 98 62.7 0.0 129.0

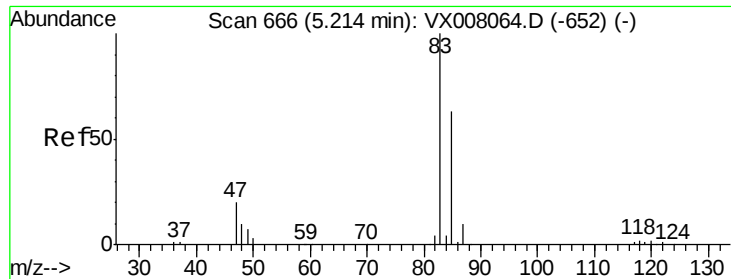


#29

Tetrahydrofuran
 Concen: 0.481 ug/l
 RT: 5.17 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VX008098.D
 Acq: 15 Mar 2019 04:13

Tgt Ion: 42 Resp: 640
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.8 50.6#
 71 9.5 31.5 47.3#

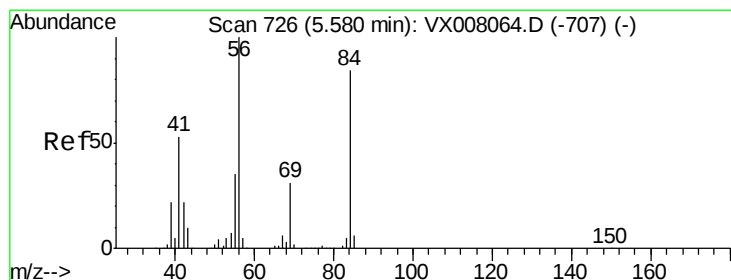
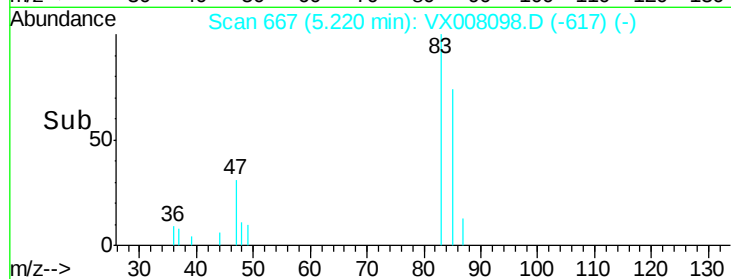
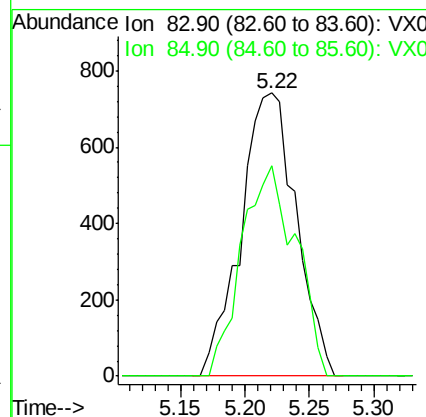
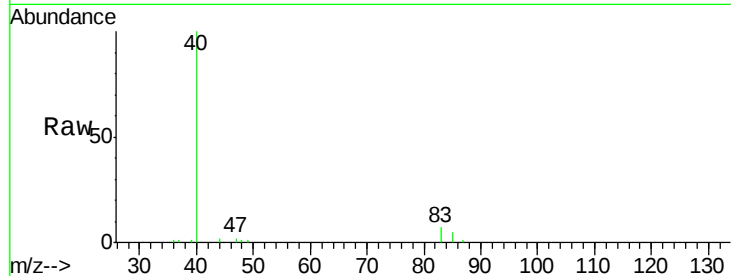




#30
Chloroform
Concen: 0.495 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX008098.D
Acq: 15 Mar 2019 04:13

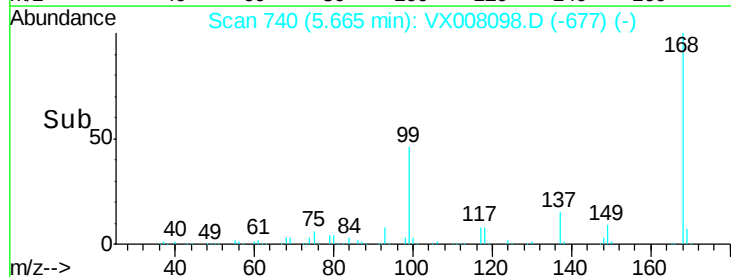
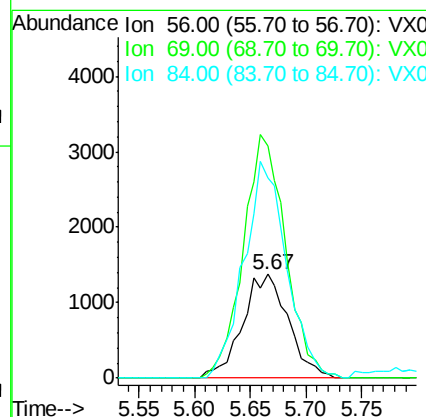
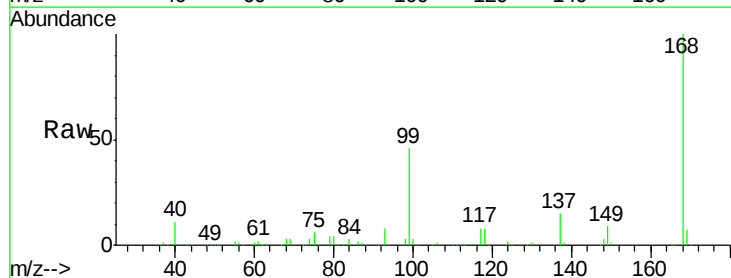
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190308

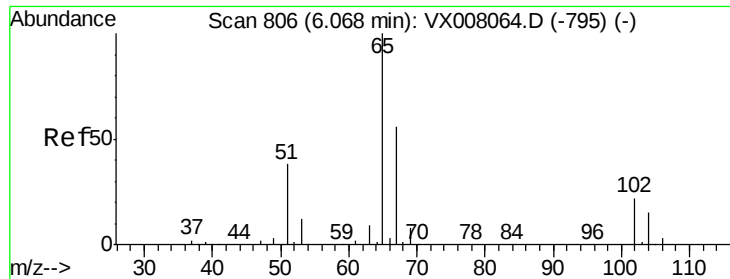
Tot Ion: 83 Resp: 2214
Ion Ratio Lower Upper
83 100
85 74.1 51.8 77.6



#31
Cyclohexane
Concen: 0.937 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008098.D
Acq: 15 Mar 2019 04:13

Tgt Ion: 56 Resp: 3943
Ion Ratio Lower Upper
56 100
69 224.4 24.0 36.0#
84 192.6 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 50.442 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

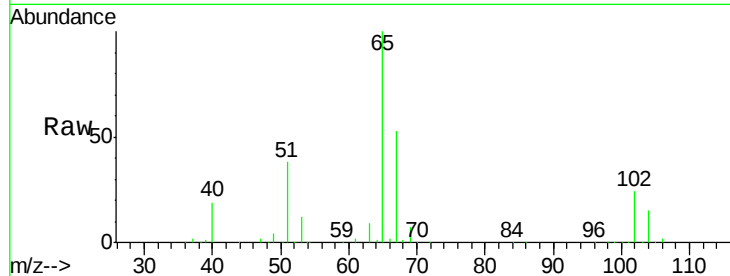
DUP03-20190308

Tot Ion: 65 Resp: 148514

Ion Ratio Lower Upper

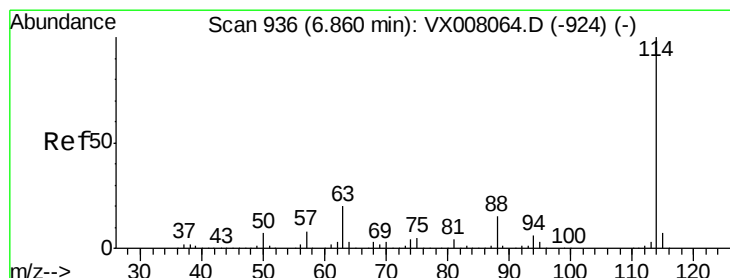
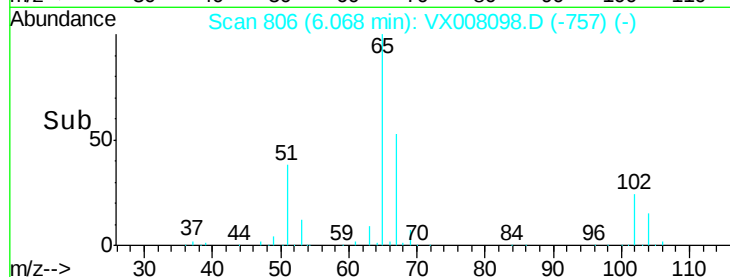
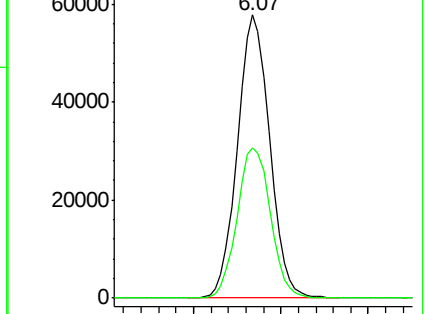
65 100

67 55.0 0.0 110.0



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: VX008098.D

Acq: 15 Mar 2019 04:13

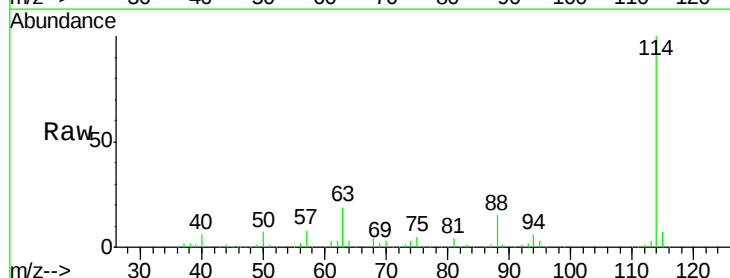
Tgt Ion: 114 Resp: 446115

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.8

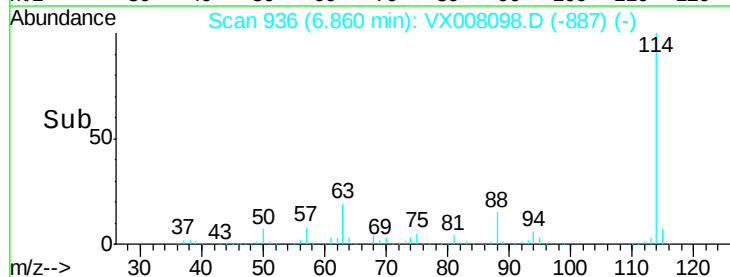
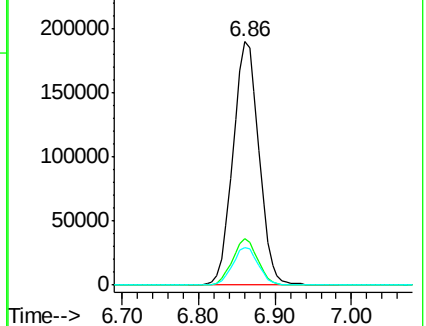
88 15.5 0.0 31.4

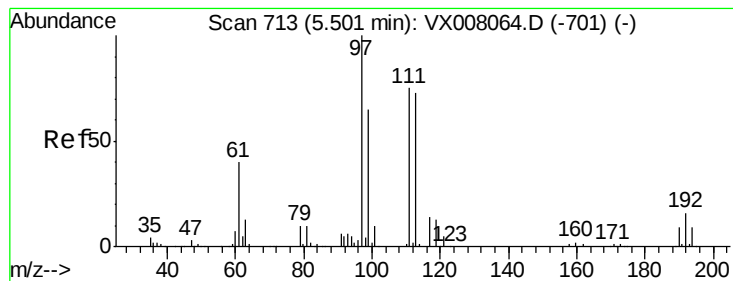


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.461 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190308

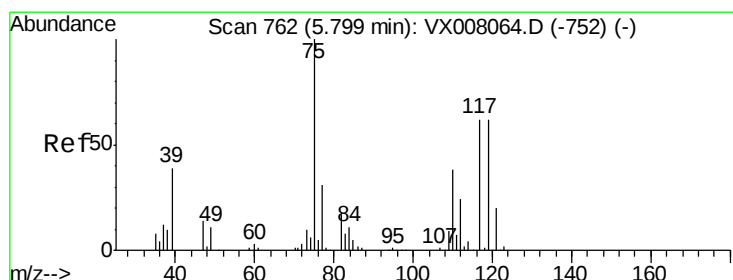
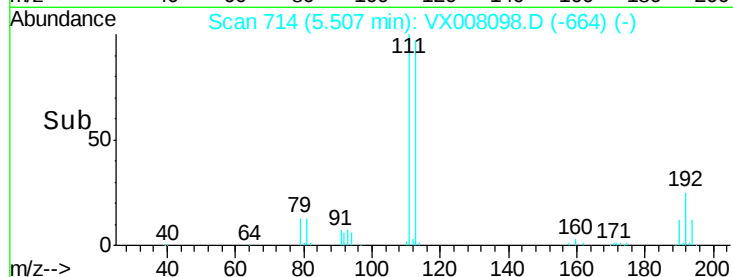
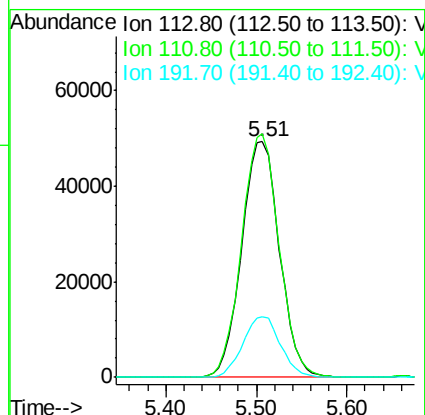
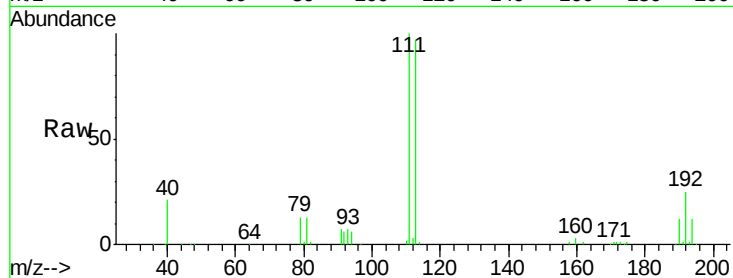
Tot Ion:113 Resp: 142756

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

192 25.7 19.4 29.0



#36

1,1-Dichloropropene

Concen: 4.634 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

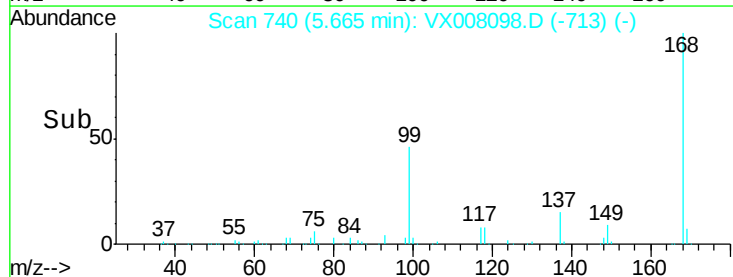
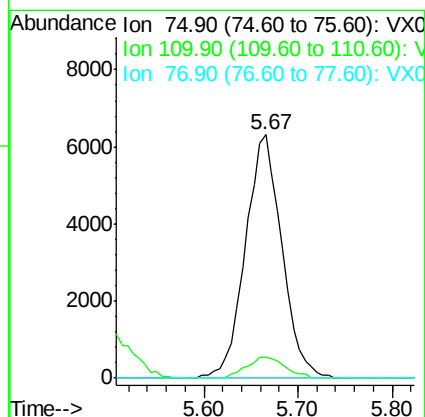
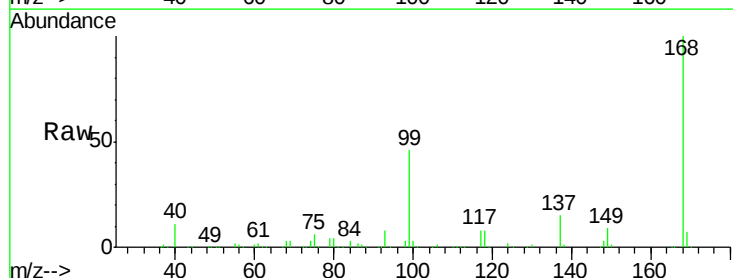
Tgt Ion: 75 Resp: 17006

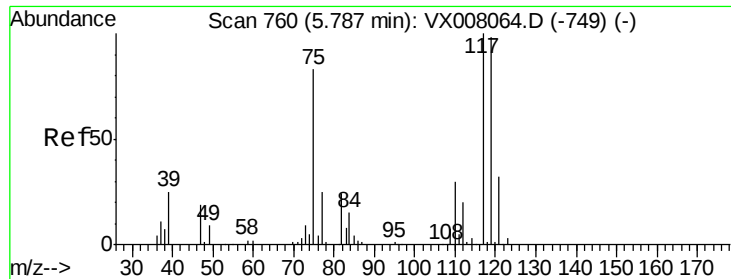
Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.0#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 0.549 ug/l

RT: 5.78 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190308

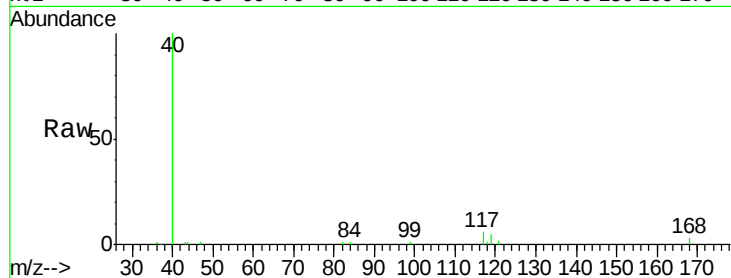
Tot Ion:117 Resp: 1938

Ion Ratio Lower Upper

117 100

119 89.7 76.2 114.2

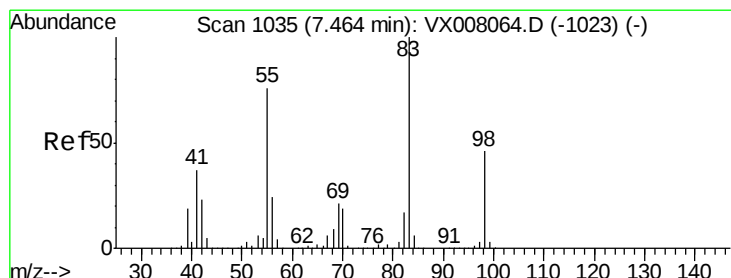
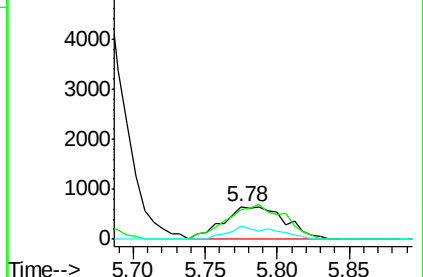
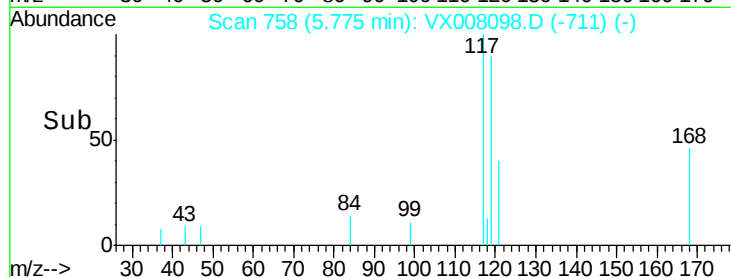
121 39.6 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 3.501 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

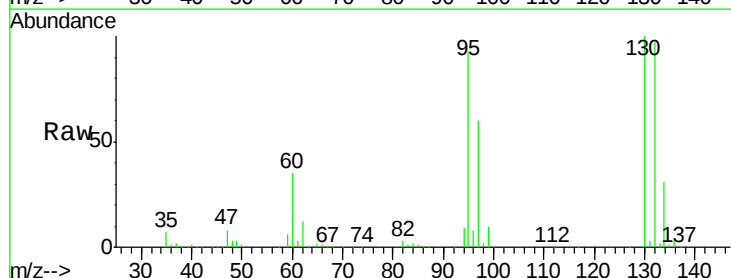
Tgt Ion: 83 Resp: 16425

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

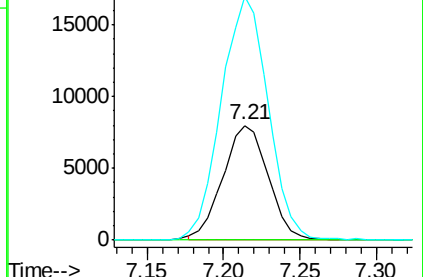
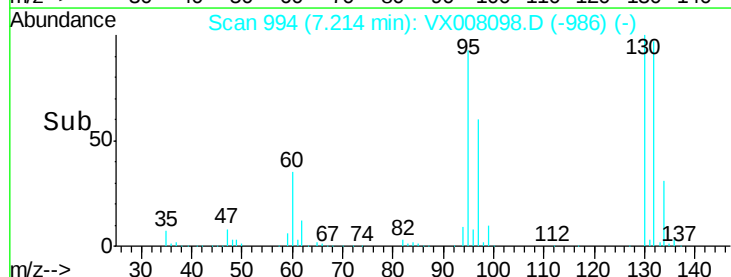
98 211.8 36.5 54.7#

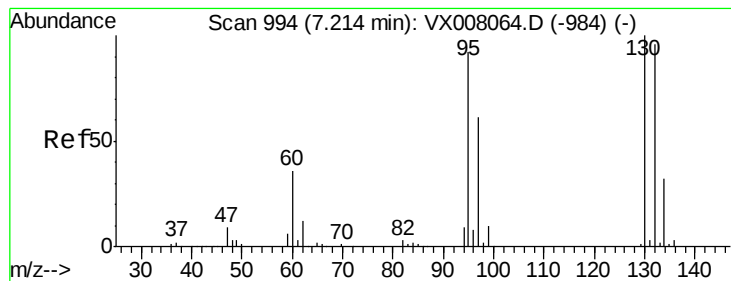


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 497.573 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

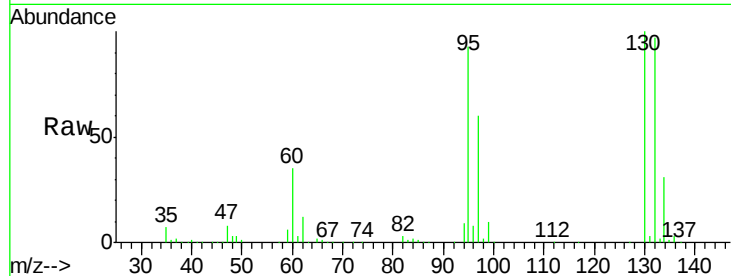
DUP03-20190308

Tot Ion:130 Resp: 1614537

Ion Ratio Lower Upper

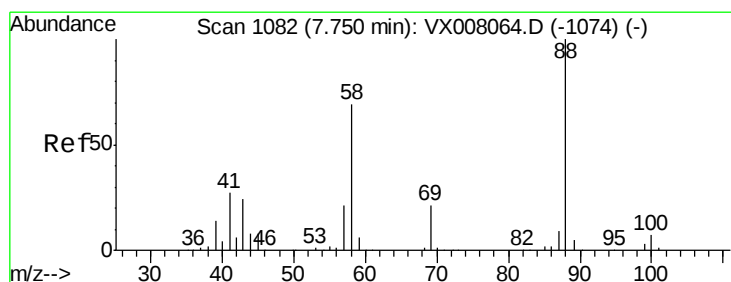
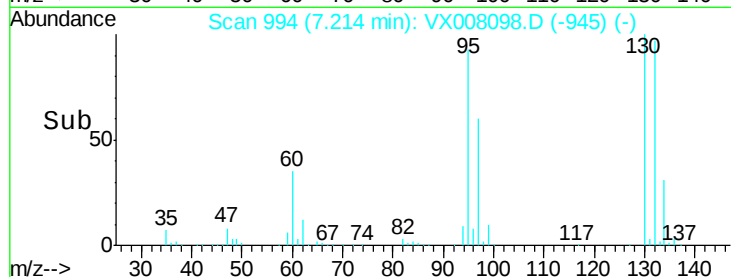
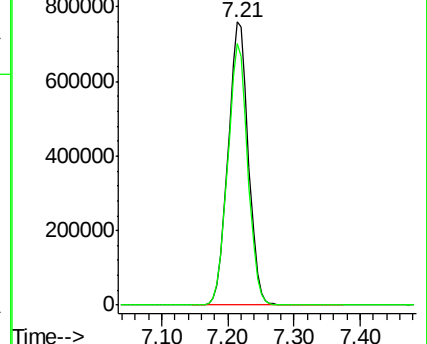
130 100

95 92.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 12.466 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

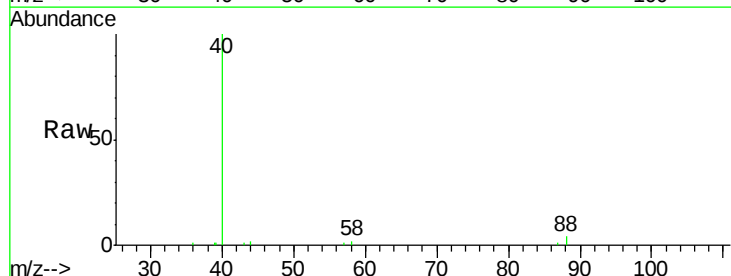
Tgt Ion: 88 Resp: 892

Ion Ratio Lower Upper

88 100

43 37.1 25.1 37.7

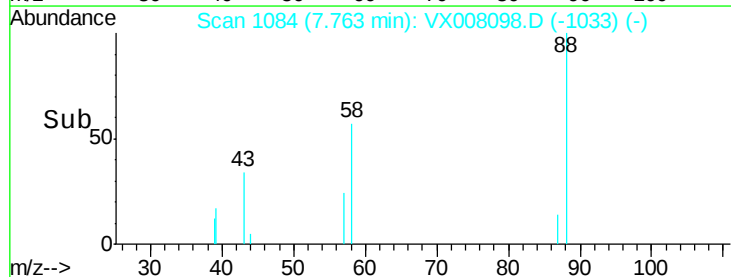
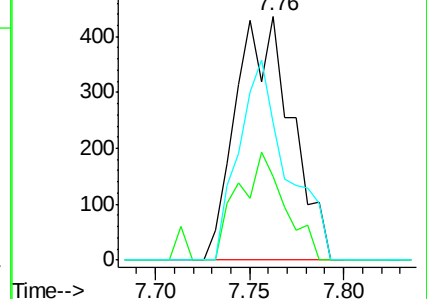
58 71.3 57.8 86.6

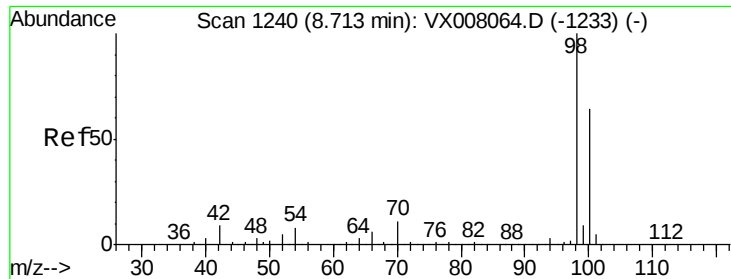


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.219 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

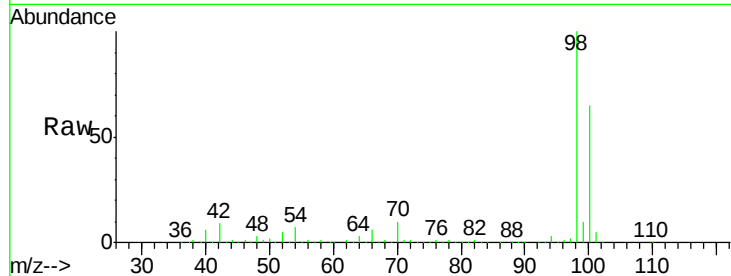
DUP03-20190308

Tot Ion: 98 Resp: 540336

Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

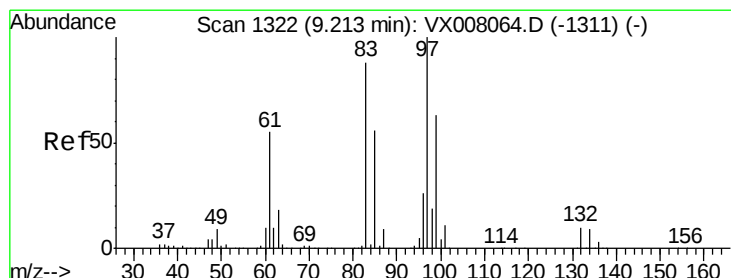
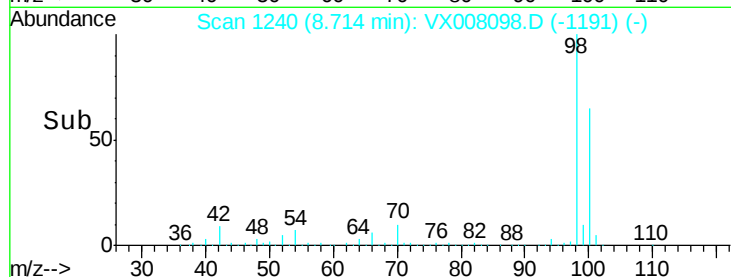
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#55

1,1,2-Trichloroethane

Concen: 0.308 ug/l

RT: 9.22 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Tgt Ion: 97 Resp: 897

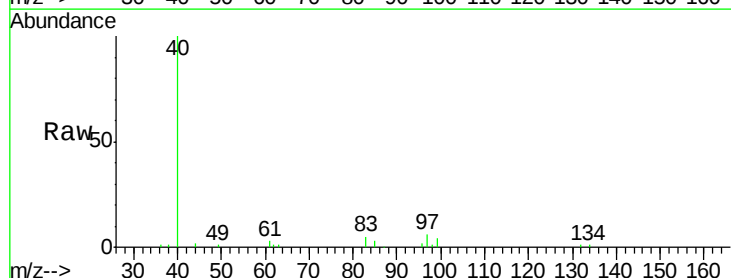
Ion Ratio Lower Upper

97 100

83 89.0 69.1 103.7

85 57.0 44.3 66.5

99 61.7 49.8 74.8



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

800

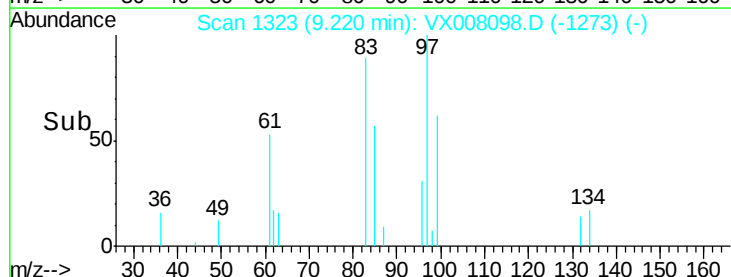
600

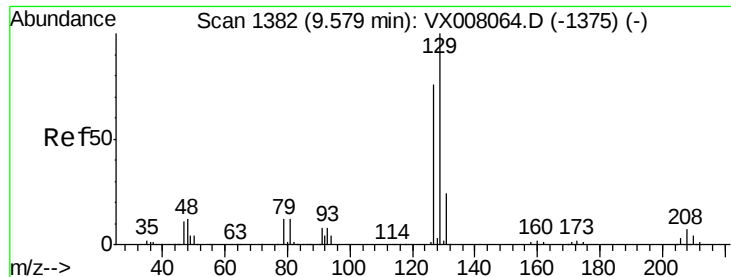
400

200

0

Time--> 9.20 9.25





#60

Dibromochloromethane

Concen: 1.436 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

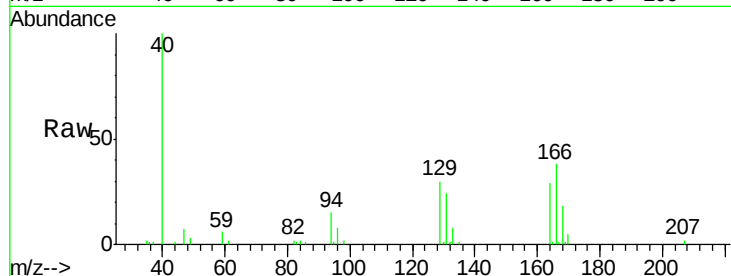
DUP03-20190308

Tot Ion:129 Resp: 4306

Ion Ratio Lower Upper

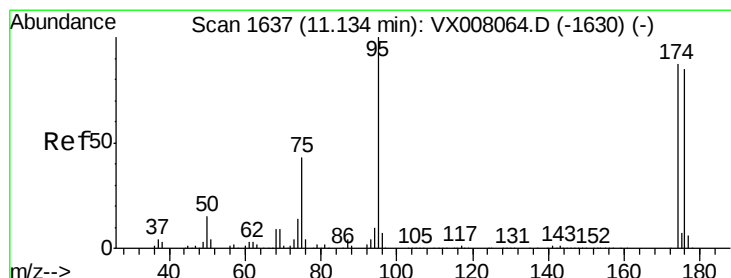
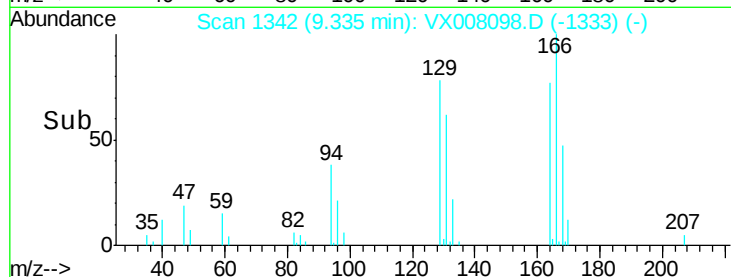
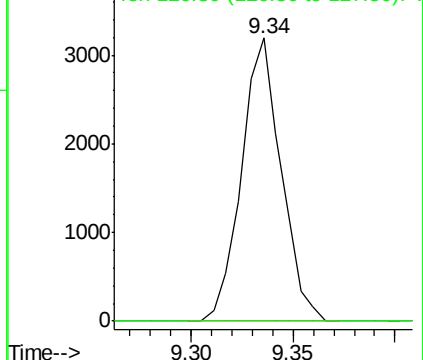
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 51.476 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

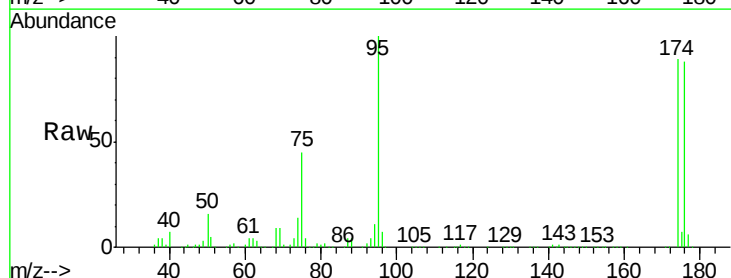
Tgt Ion: 95 Resp: 198414

Ion Ratio Lower Upper

95 100

174 95.6 0.0 182.8

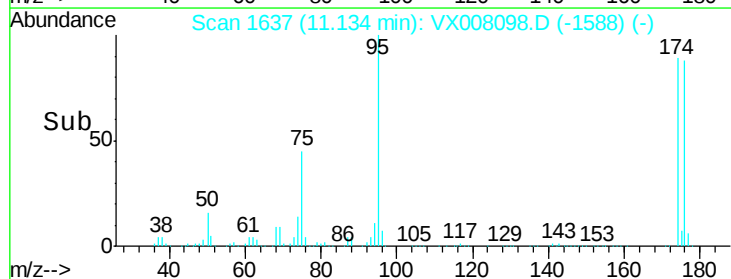
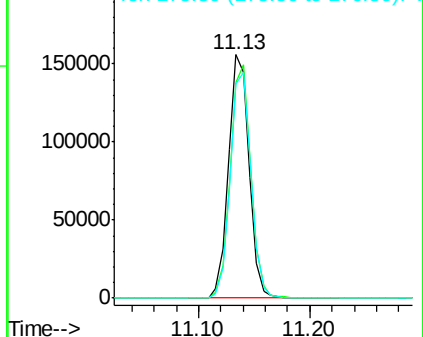
176 93.5 0.0 178.0

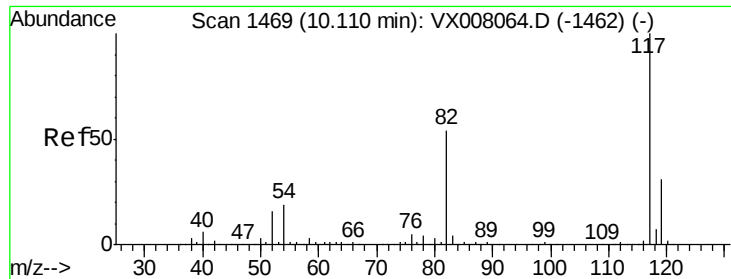


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

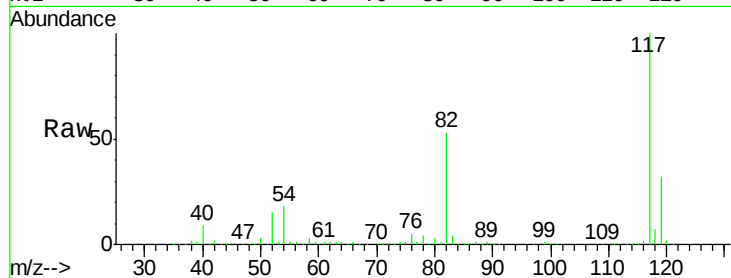




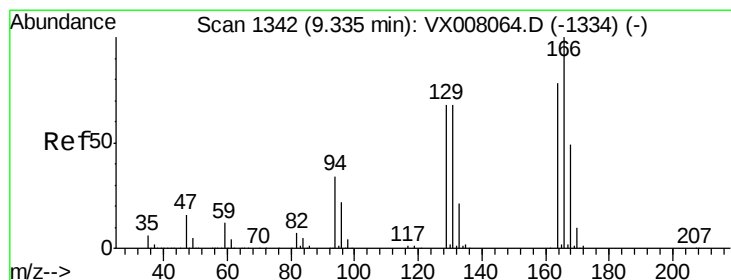
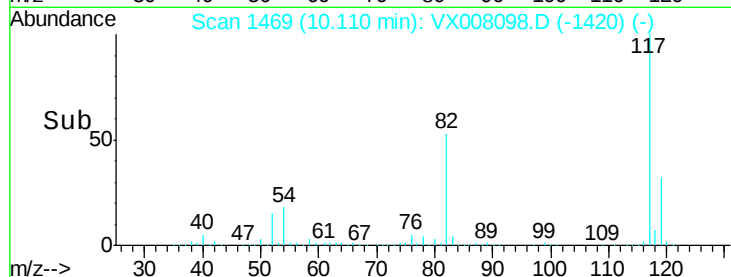
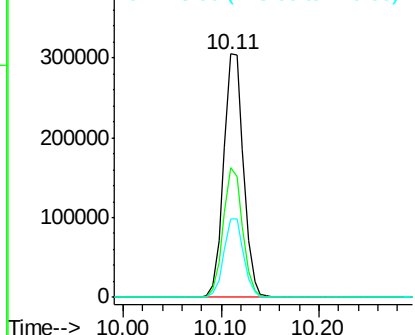
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008098.D
Acq: 15 Mar 2019 04:13

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190308

Tot Ion:117 Resp: 427236
Ion Ratio Lower Upper
117 100
82 53.3 44.3 66.5
119 32.5 25.3 37.9

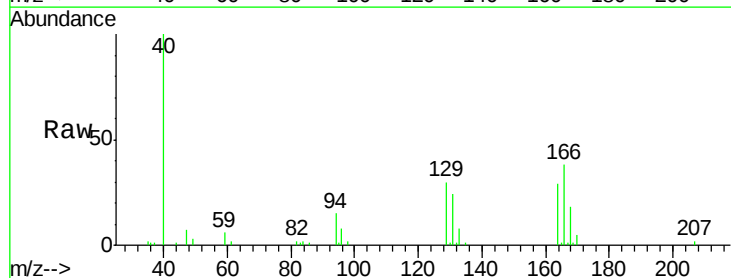


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

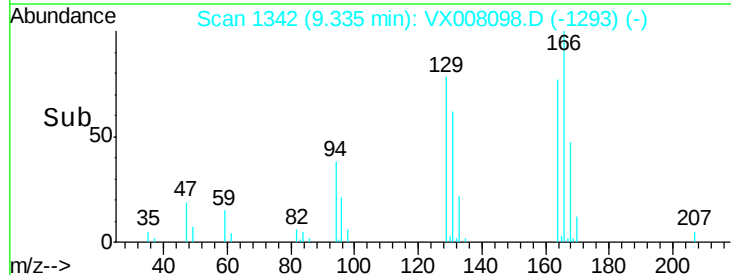
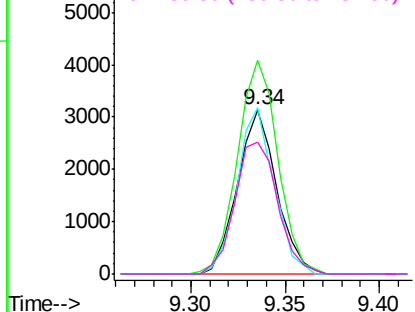


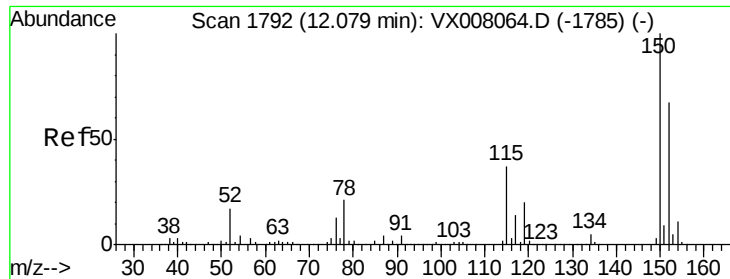
#64
Tetrachloroethene
Concen: 1.305 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008098.D
Acq: 15 Mar 2019 04:13

Tgt Ion:164 Resp: 4519
Ion Ratio Lower Upper
164 100
166 130.3 103.4 155.0
129 101.9 72.2 108.4
131 80.2 69.4 104.2



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: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190308

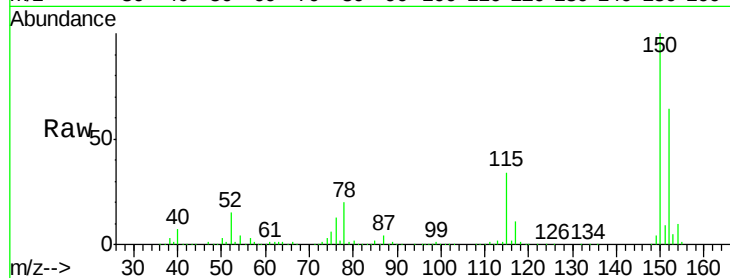
Tot Ion:152 Resp: 210234

Ion Ratio Lower Upper

152 100

115 54.6 38.6 115.7

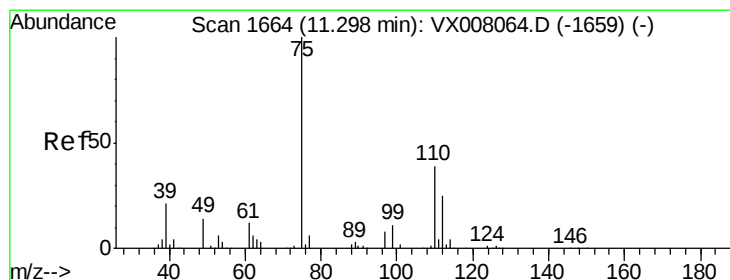
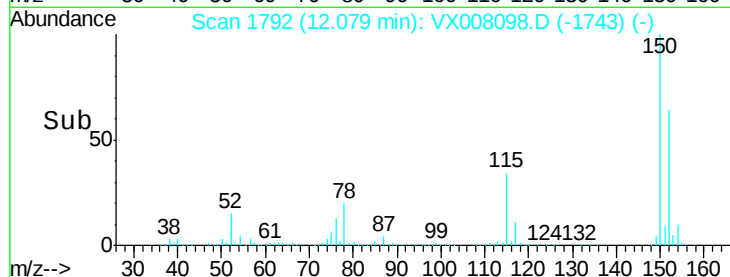
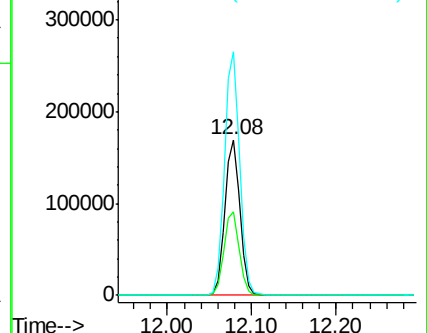
150 157.0 0.0 348.4



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: 24.006 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008098.D

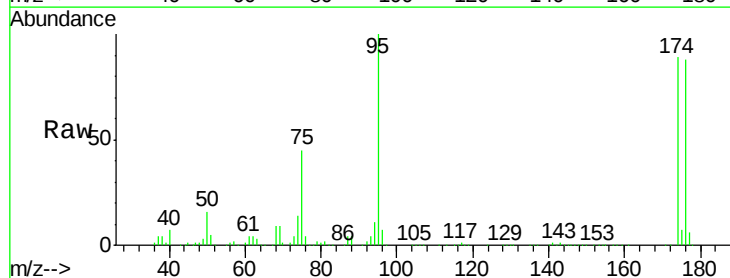
Acq: 15 Mar 2019 04:13

Tgt Ion: 75 Resp: 87650

Ion Ratio Lower Upper

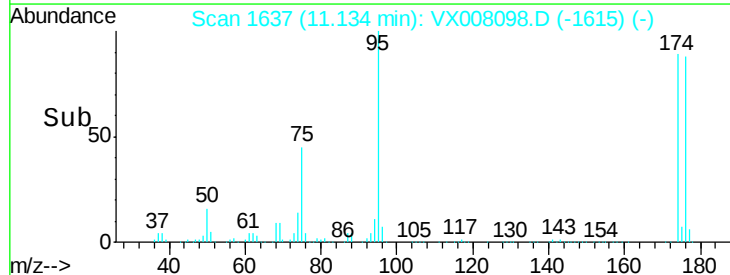
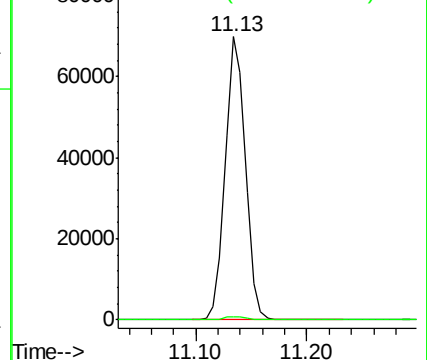
75 100

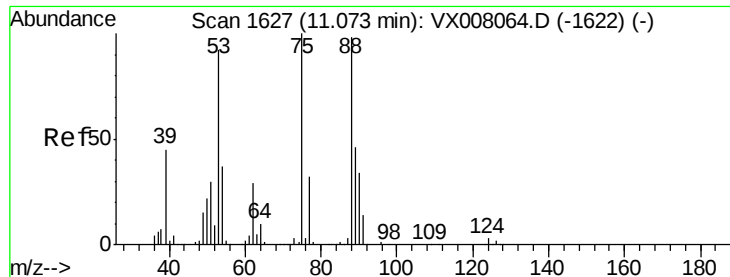
77 1.3 18.9 56.7#



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: 68.313 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008098.D

Acq: 15 Mar 2019 04:13

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190308

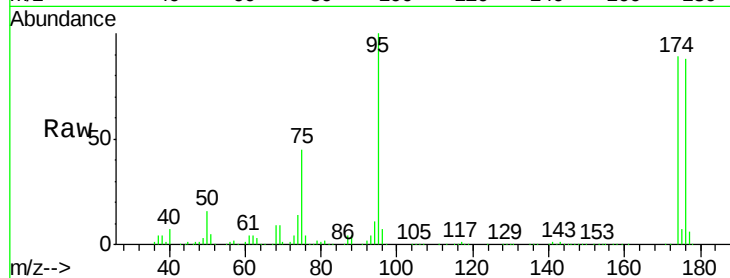
Tot Ion: 75 Resp: 87650

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

