

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041819\
 Data File : VX009050.D
 Acq On : 18 Apr 2019 17:42
 Operator : JC/SP
 Sample : K2449-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0512-190416

Quant Time: Apr 19 01:39:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	237728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	389366	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138001	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	160294	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
35) Dibromofluoromethane	5.50	113	117456	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	8.71	98	476572	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.13	95	156257	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

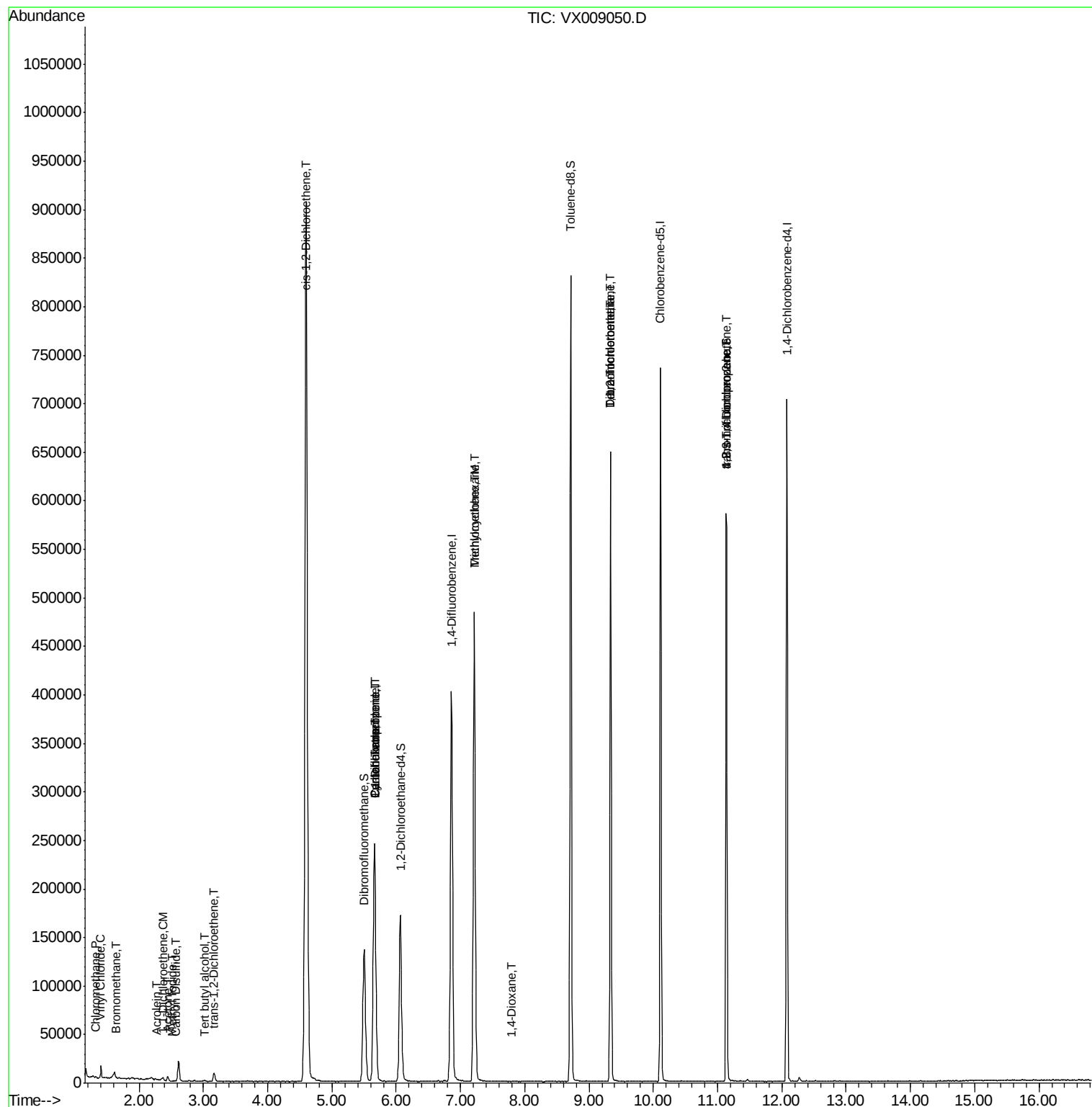
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	899	0.267	ug/l	98
4) Vinyl Chloride	1.41	62	9496	2.902	ug/l	96
5) Bromomethane	1.65	94	347	4.005	ug/l	89
10) Methyl Iodide	2.51	142	166	4.471	ug/l #	42
11) Tert butyl alcohol	3.02	59	811	1.091	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	932	0.366	ug/l #	74
13) Acrolein	2.28	56	139	0.216	ug/l	90
16) Acetone	2.45	43	5002	2.879	ug/l	94
17) Carbon Disulfide	2.56	76	397	1.304	ug/l #	25
21) trans-1,2-Dichloroethene	3.17	96	3288	1.209	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	556213	180.162	ug/l	90
28) Bromochloromethane	5.04	49	22	Below Cal	#	21
31) Cyclohexane	5.67	56	5475	1.026	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18433	4.577	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22994	6.735	ug/l #	17
39) Methylcyclohexane	7.21	83	2442	0.498	ug/l #	1
44) Trichloroethene	7.21	130	182480	62.692	ug/l	98
49) 1,4-Dioxane	7.79	88	19	0.246	ug/l #	1
55) 1,1,2-Trichloroethane	9.34	97	1176	0.417	ug/l #	1
60) Dibromochloromethane	9.34	129	118143	43.686	ug/l #	10
64) Tetrachloroethene	9.34	164	125017	49.893	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	80249	23.815	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	80249	61.139	ug/l #	11

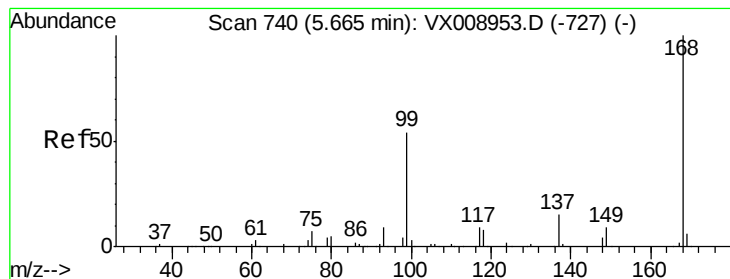
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 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: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

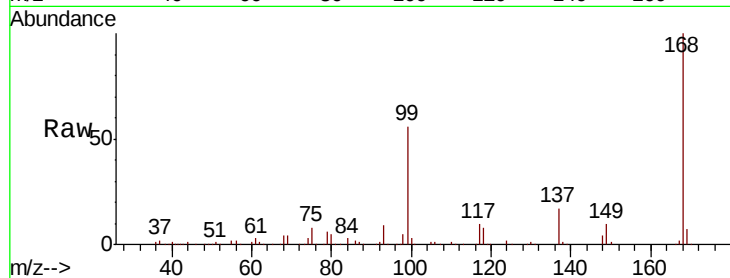
DUP-0512-190416

Tot Ion:168 Resp: 237728

Ion Ratio Lower Upper

168 100

99 56.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

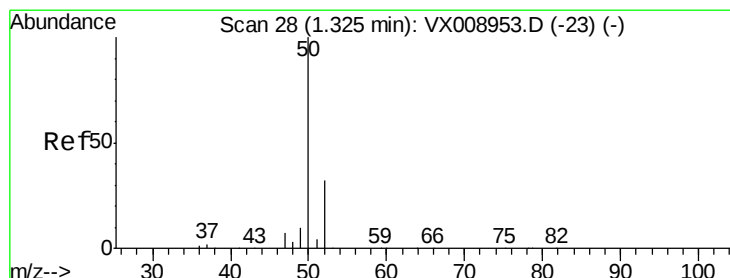
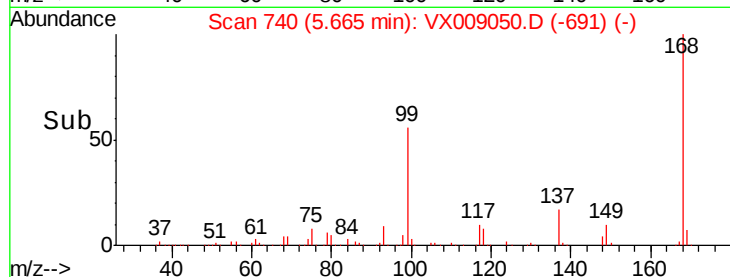
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009050.D

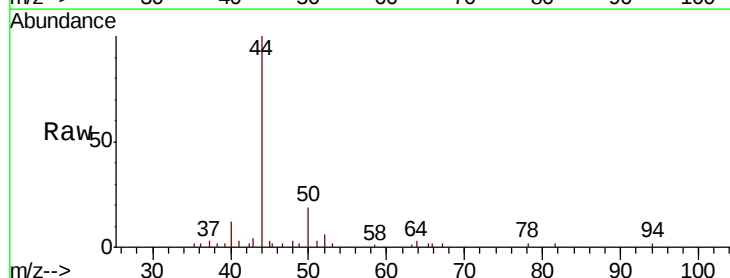
Acq: 18 Apr 2019 17:42

Tgt Ion: 50 Resp: 899

Ion Ratio Lower Upper

50 100

52 30.9 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

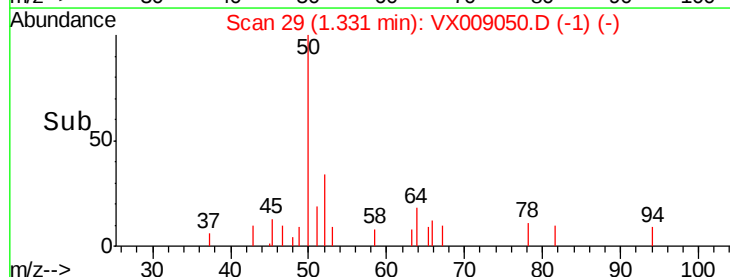
600

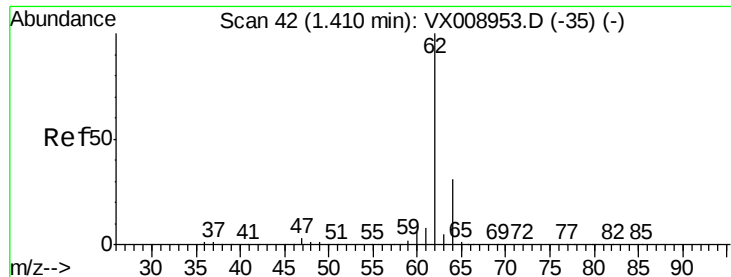
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 2.902 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

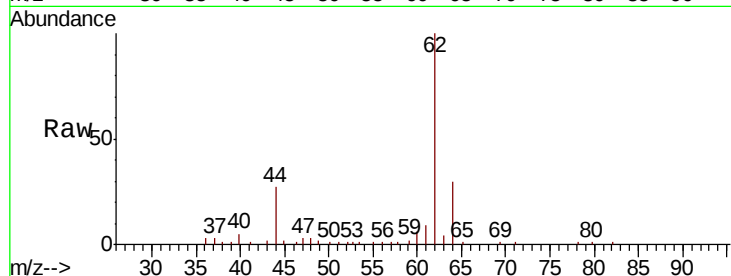
DUP-0512-190416

Tot Ion: 62 Resp: 9496

Ion Ratio Lower Upper

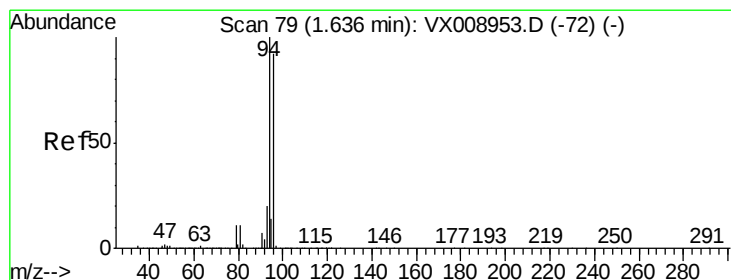
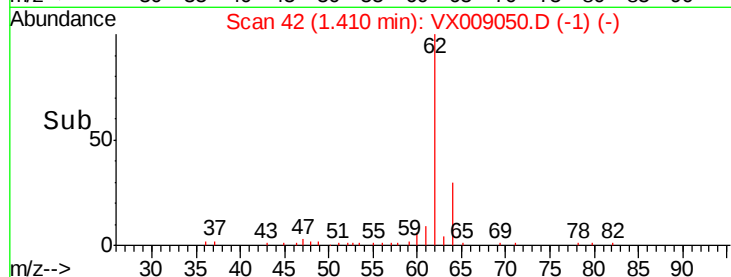
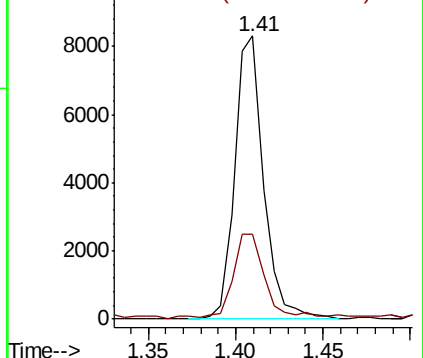
62 100

64 28.9 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 4.005 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009050.D

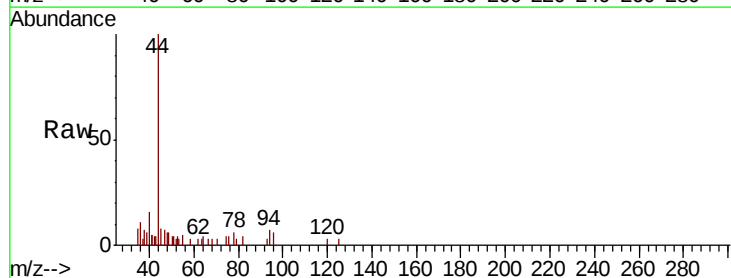
Acq: 18 Apr 2019 17:42

Tgt Ion: 94 Resp: 347

Ion Ratio Lower Upper

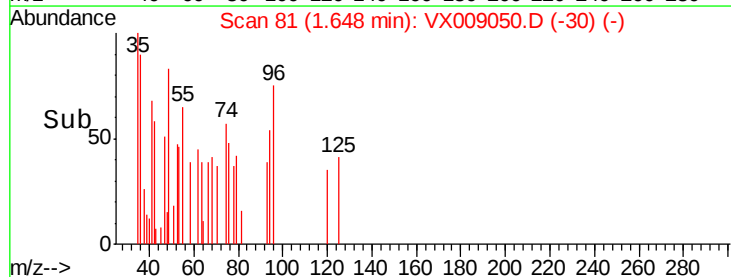
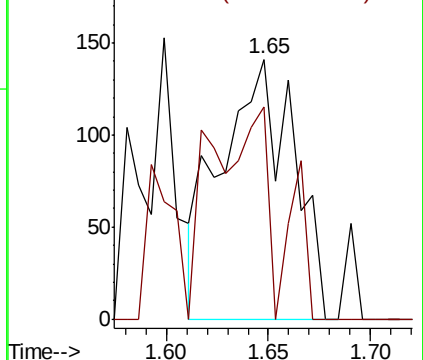
94 100

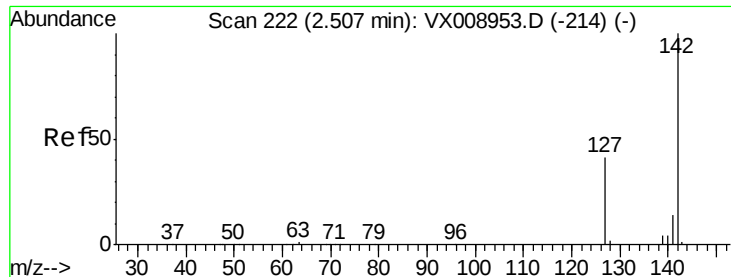
96 81.6 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

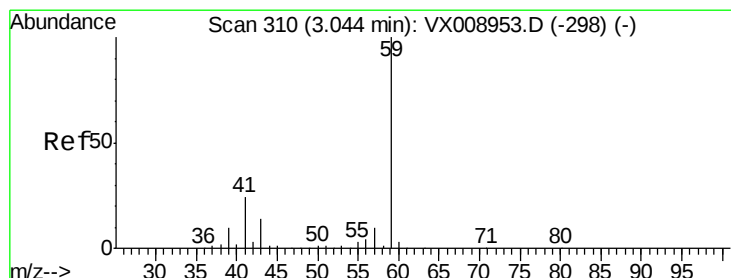
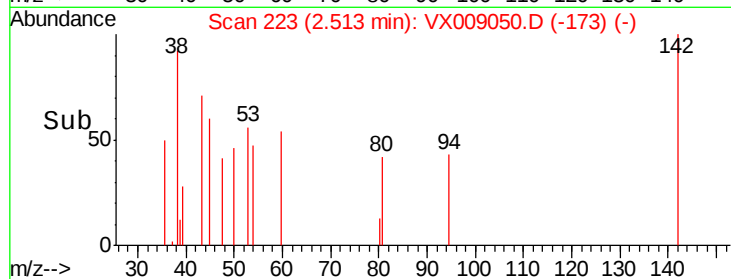
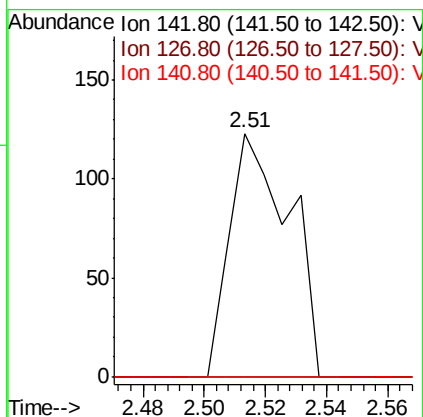
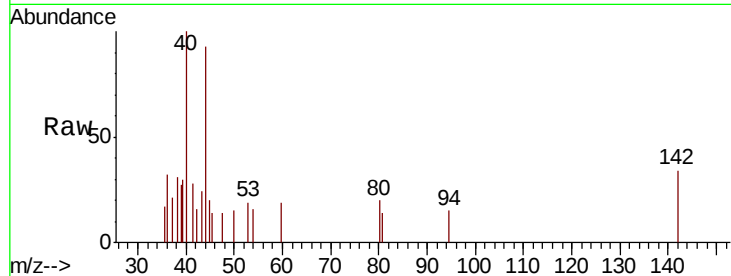




#10
Methyl Iodide
Concen: 4.471 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009050.D
Acq: 18 Apr 2019 17:42

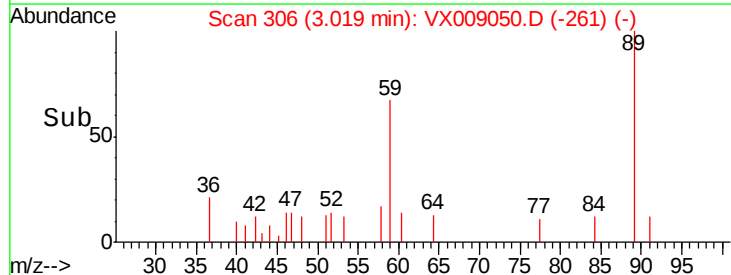
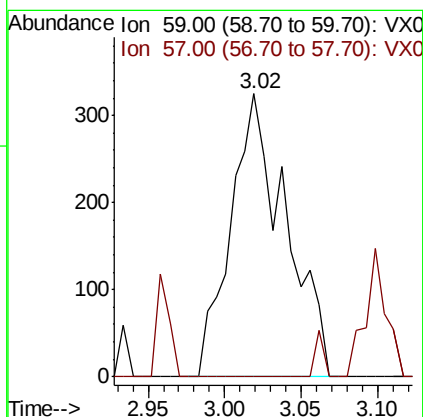
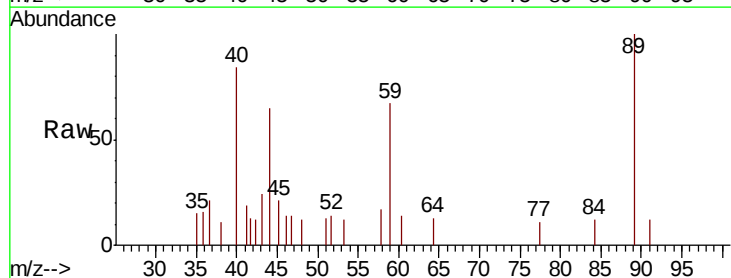
Instrument :
MSVOA_X
ClientSampleId :
DUP-0512-190416

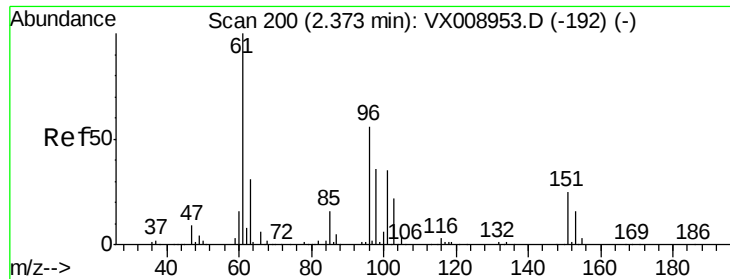
Tot Ion:142 Resp: 166
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.091 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009050.D
Acq: 18 Apr 2019 17:42

Tgt Ion: 59 Resp: 811
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#12

1,1-Dichloroethene

Concen: 0.366 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416

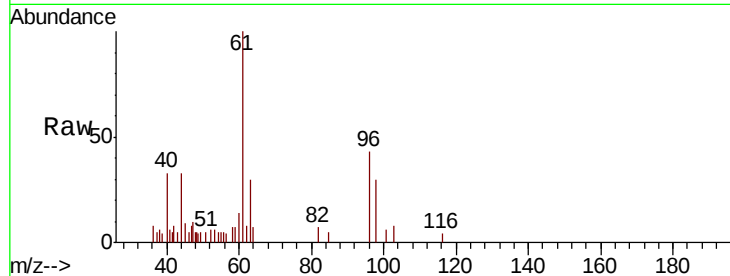
Tot Ion: 96 Resp: 932

Ion Ratio Lower Upper

96 100

61 223.8 142.2 213.2#

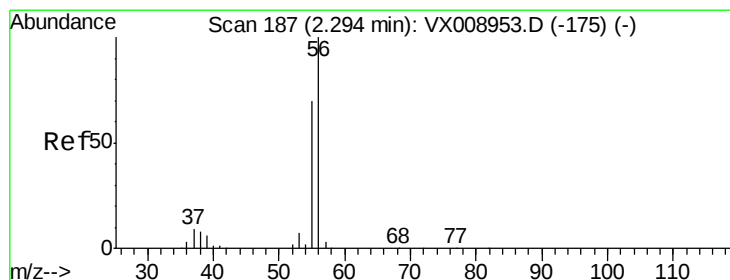
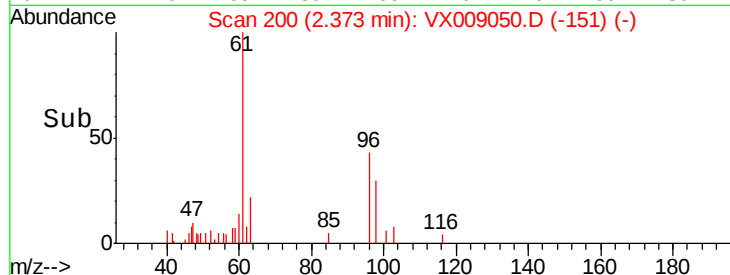
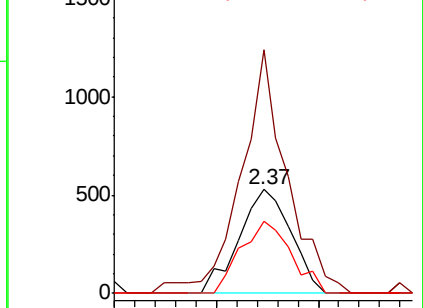
98 69.6 50.9 76.3



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.216 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009050.D

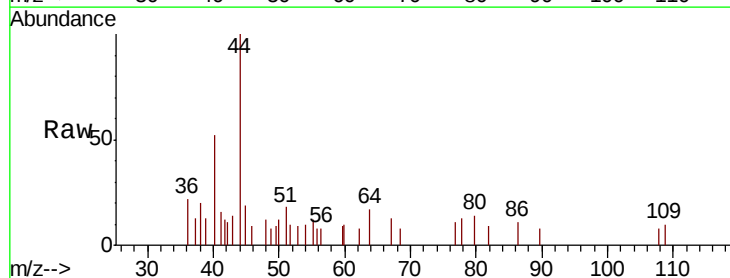
Acq: 18 Apr 2019 17:42

Tgt Ion: 56 Resp: 139

Ion Ratio Lower Upper

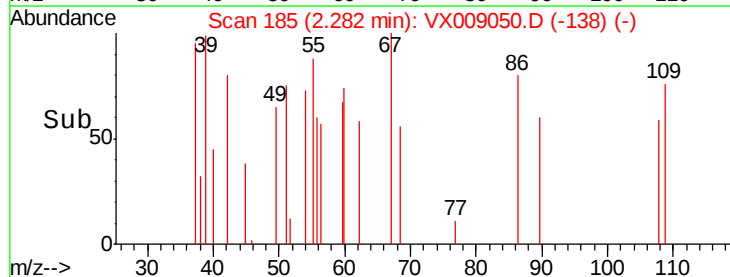
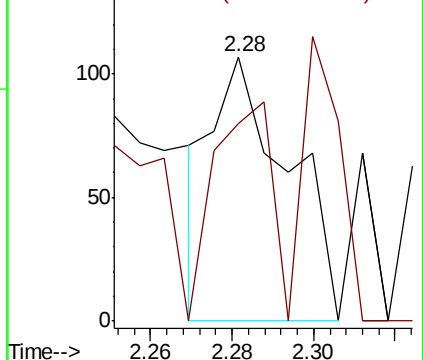
56 100

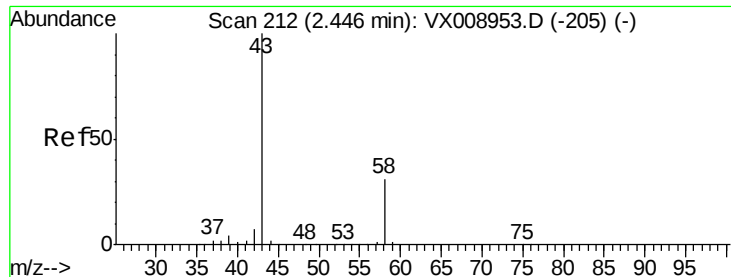
55 62.6 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.879 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

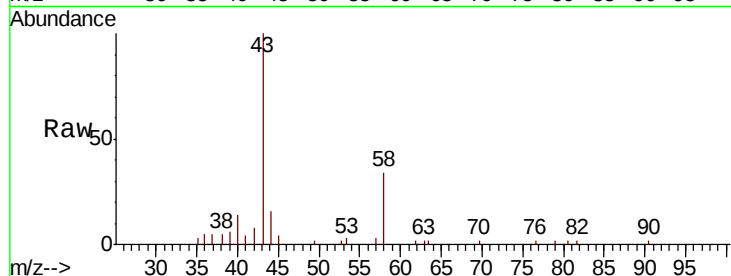
DUP-0512-190416

Tot Ion: 43 Resp: 5002

Ion Ratio Lower Upper

43 100

58 34.3 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

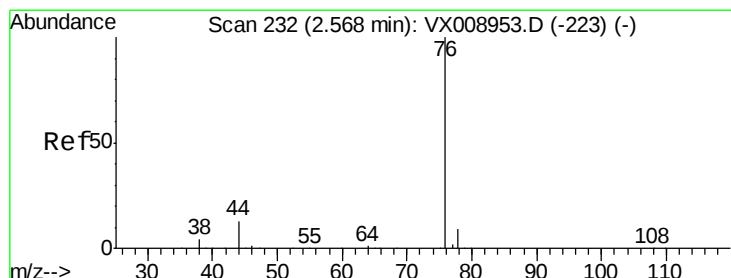
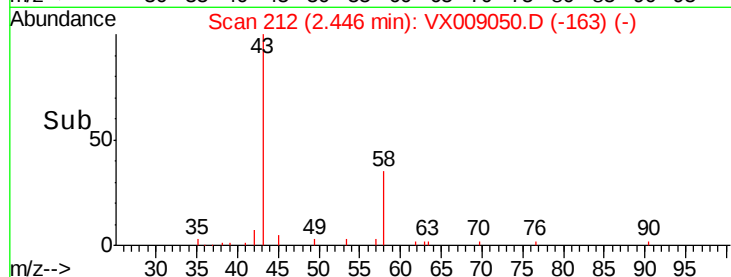
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 1.304 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009050.D

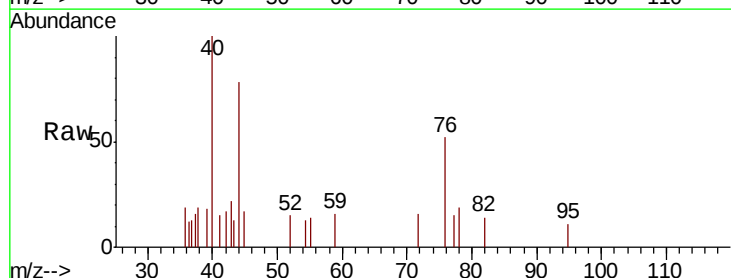
Acq: 18 Apr 2019 17:42

Tgt Ion: 76 Resp: 397

Ion Ratio Lower Upper

76 100

78 36.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

250

200

150

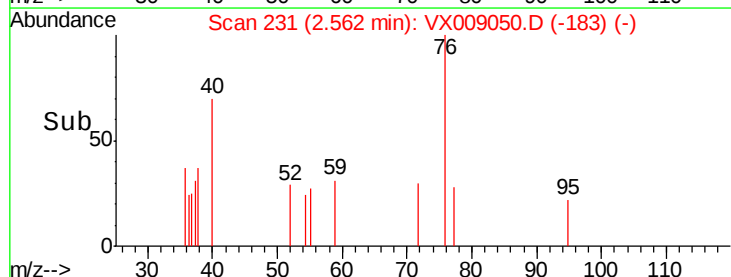
100

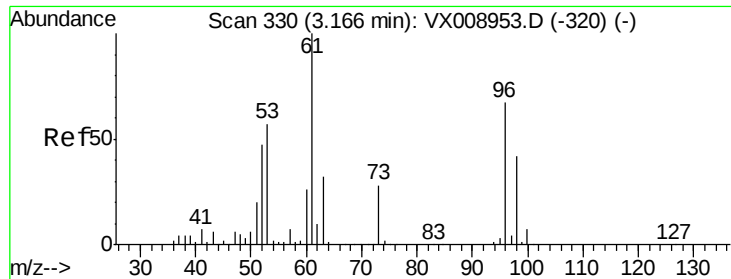
50

0

Time-->

2.55 2.60





#21

trans-1,2-Dichloroethene

Concen: 1.209 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

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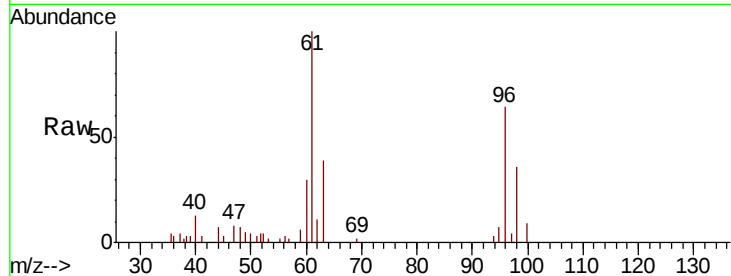
Tot Ion: 96 Resp: 3288

Ion Ratio Lower Upper

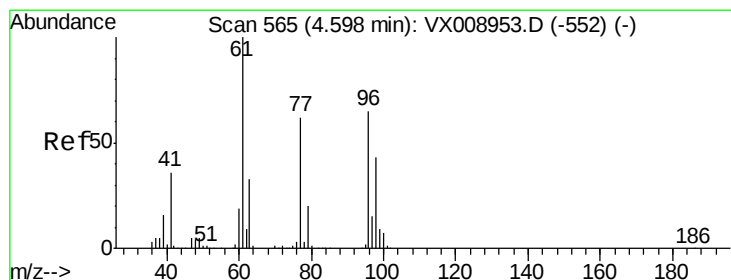
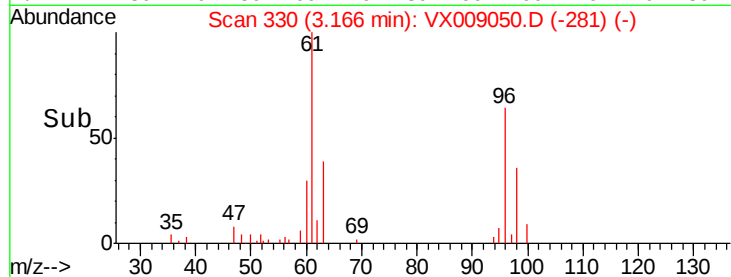
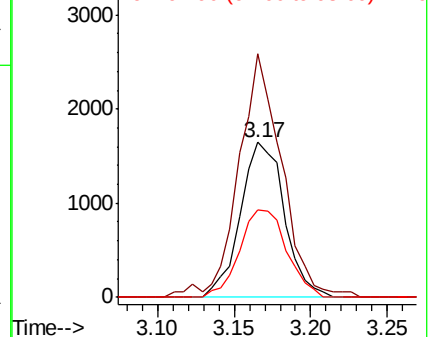
96 100

61 153.0 120.3 180.5

98 56.5 50.2 75.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 180.162 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

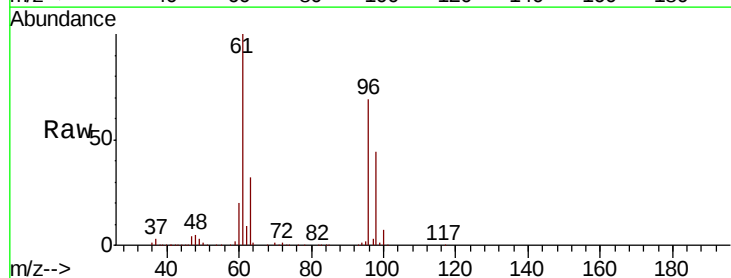
Tgt Ion: 96 Resp: 556213

Ion Ratio Lower Upper

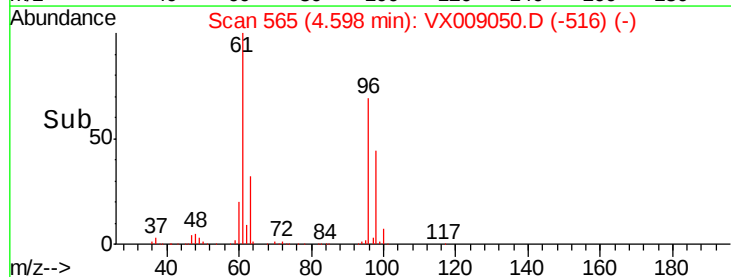
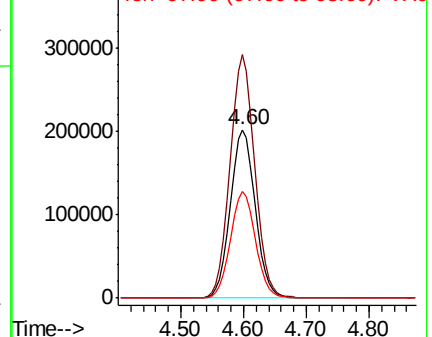
96 100

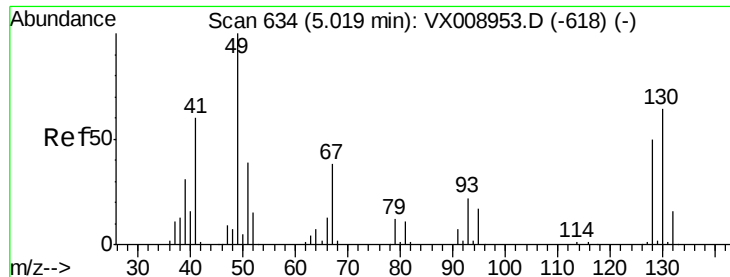
61 143.0 0.0 322.0

98 63.6 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

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ClientSampleId :

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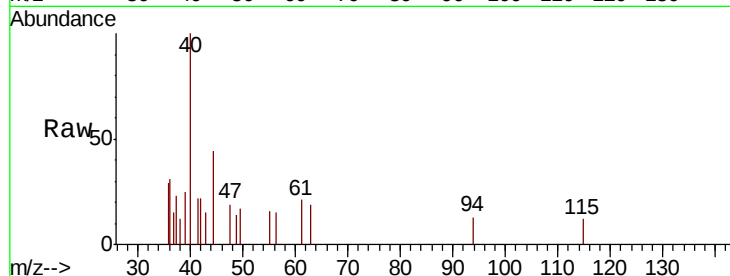
Tot Ion: 49 Resp: 22

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

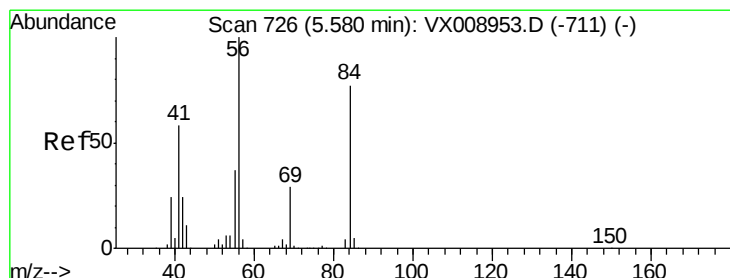
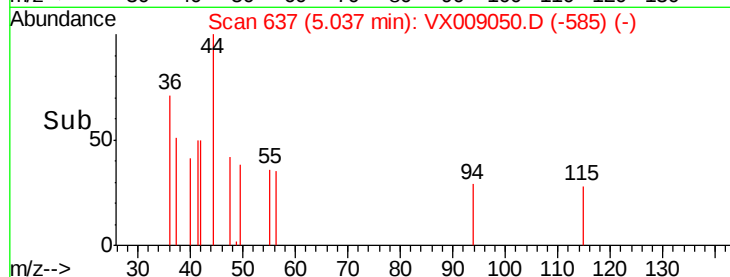
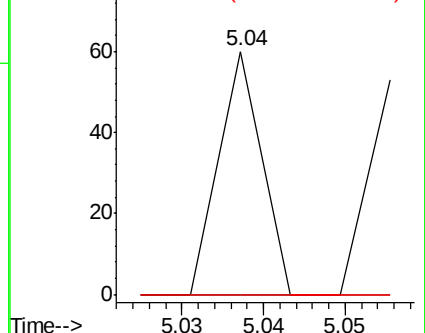
130 0.0 50.4 75.6#



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: 1.026 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

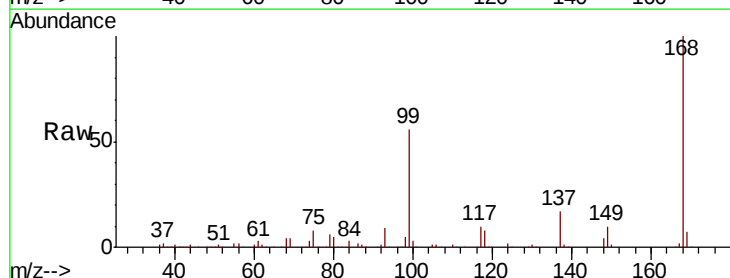
Tgt Ion: 56 Resp: 5475

Ion Ratio Lower Upper

56 100

69 176.6 23.3 34.9#

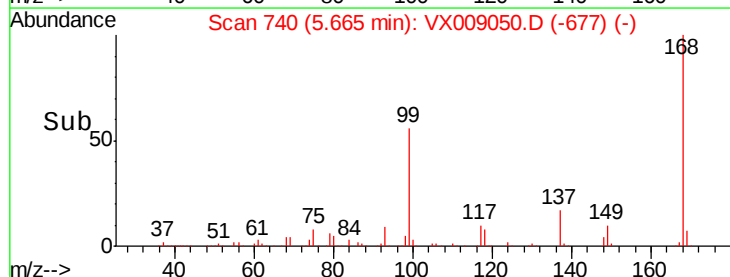
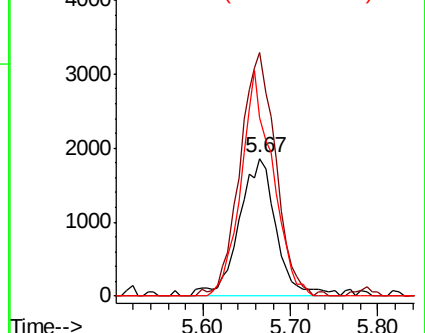
84 129.1 61.7 92.5#

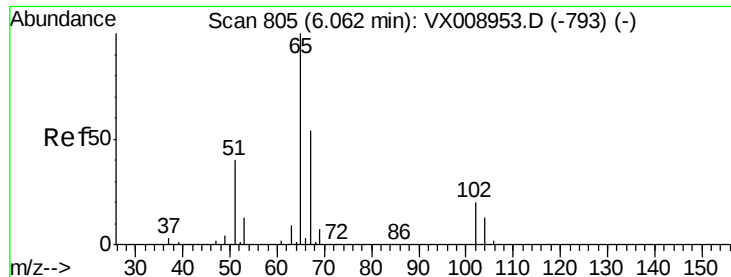


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.845 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

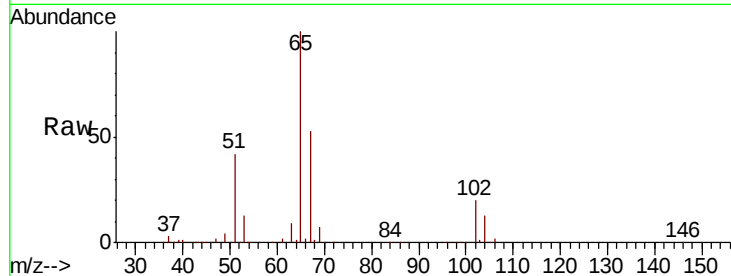
DUP-0512-190416

Tot Ion: 65 Resp: 160294

Ion Ratio Lower Upper

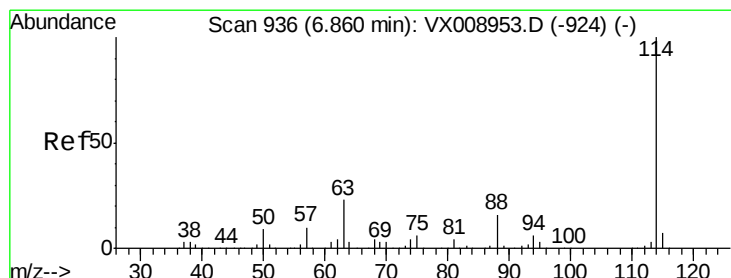
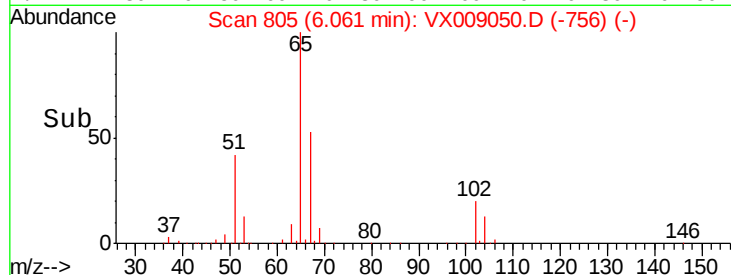
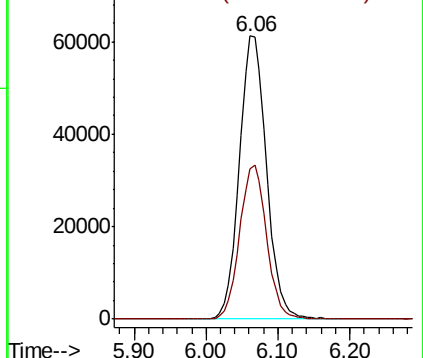
65 100

67 53.9 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: VX009050.D

Acq: 18 Apr 2019 17:42

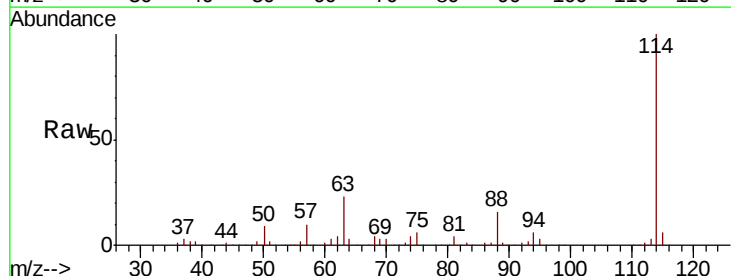
Tgt Ion: 114 Resp: 389366

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.0

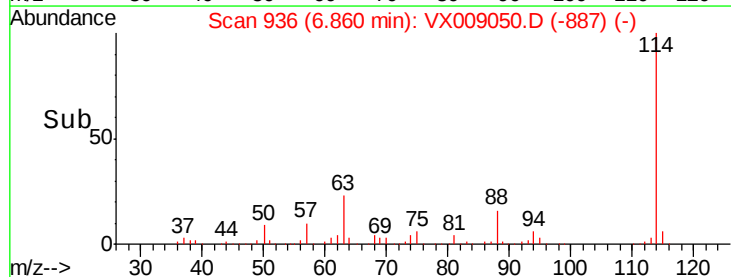
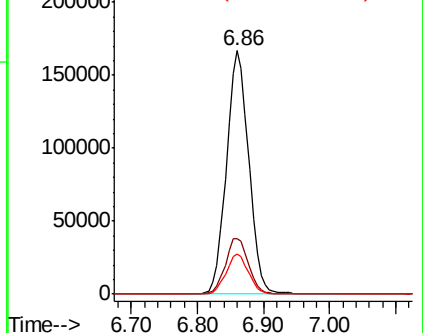
88 16.4 0.0 32.6

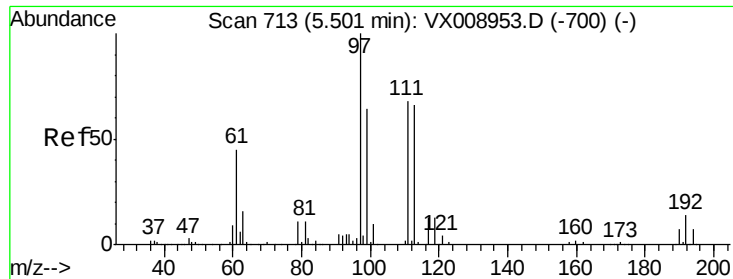


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

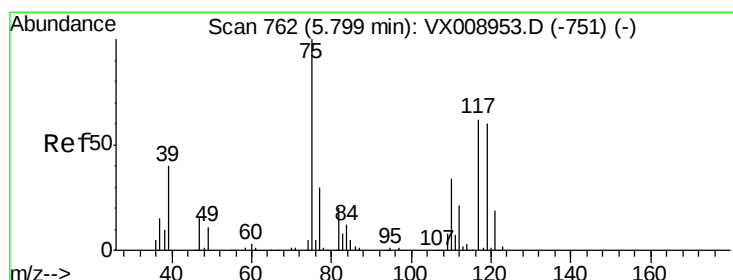
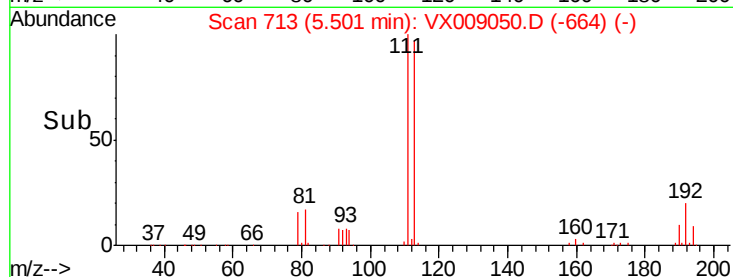
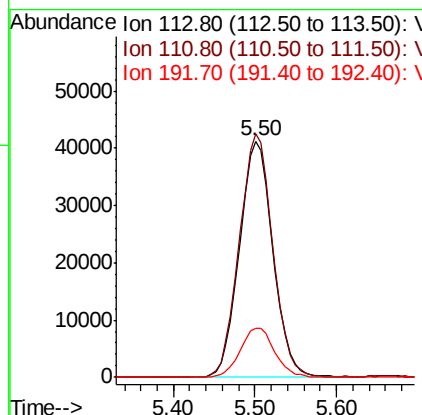
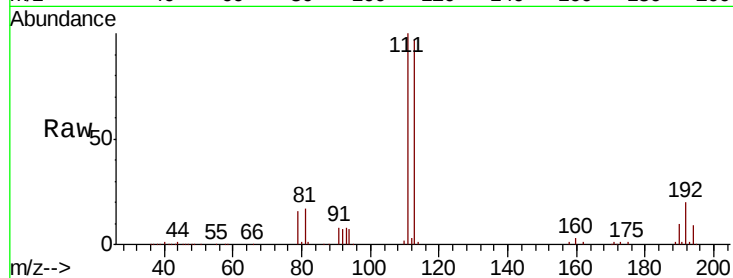




#35
 Dibromofluoromethane
 Concen: 47.004 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009050.D
 Acq: 18 Apr 2019 17:42

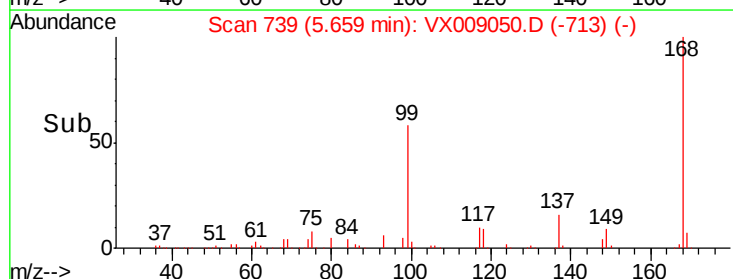
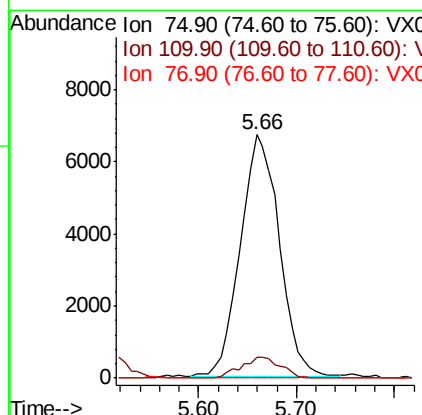
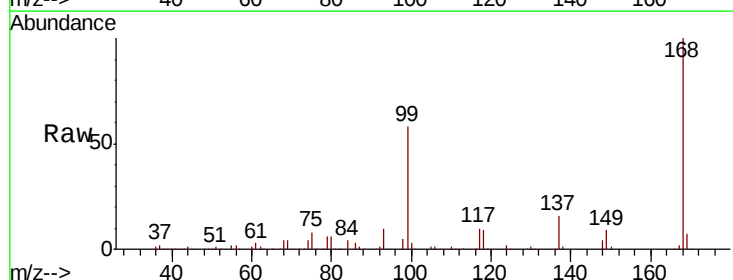
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0512-190416

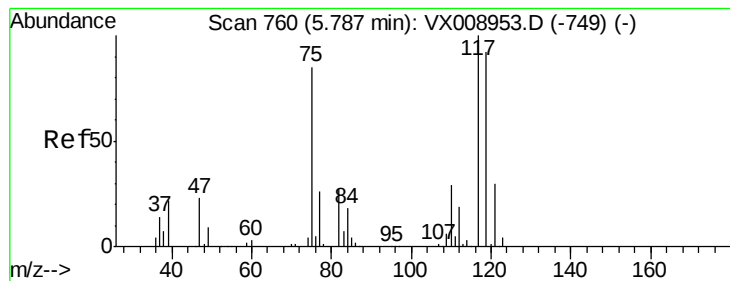
Tot Ion:113 Resp: 117456
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.9 124.3
 192 21.5 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.577 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009050.D
 Acq: 18 Apr 2019 17:42

Tgt Ion: 75 Resp: 18433
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.9 50.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.735 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416

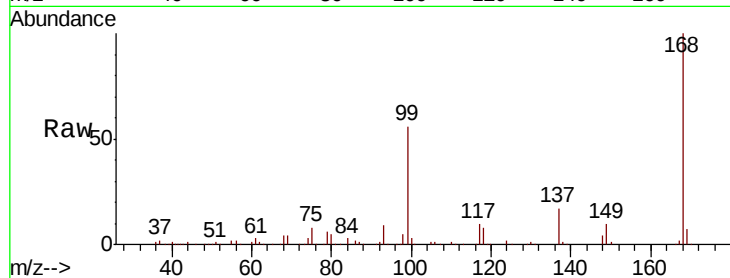
Tot Ion:117 Resp: 22994

Ion Ratio Lower Upper

117 100

119 4.8 73.8 110.8#

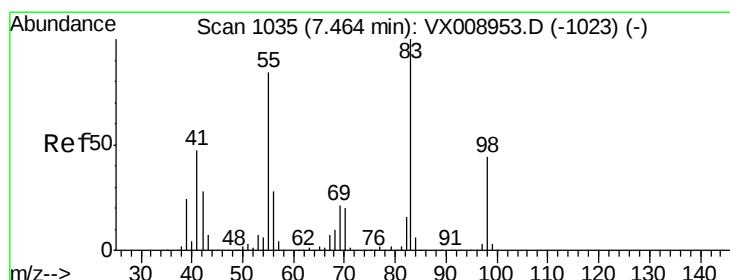
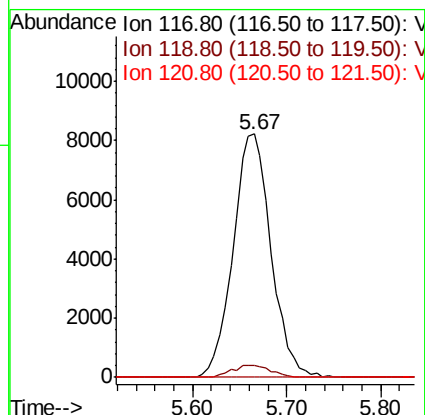
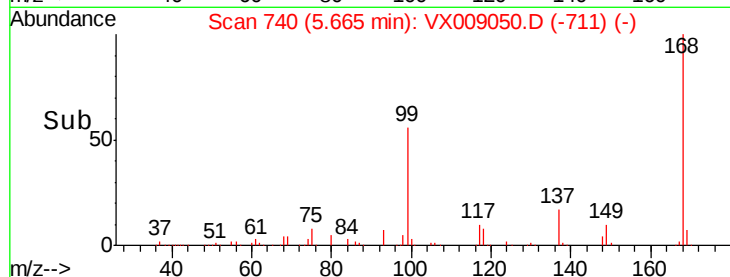
121 0.0 23.6 35.4#



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



#39

Methylcyclohexane

Concen: 0.498 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

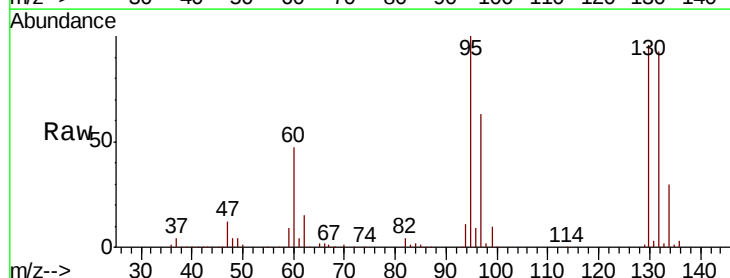
Tgt Ion: 83 Resp: 2442

Ion Ratio Lower Upper

83 100

55 4.4 67.1 100.7#

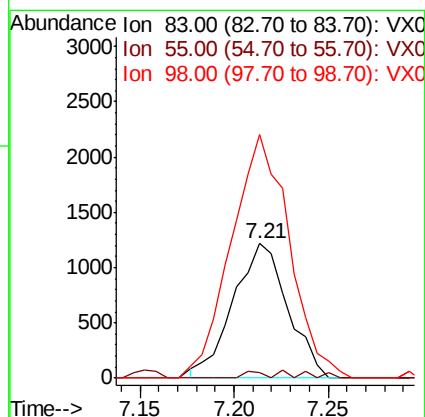
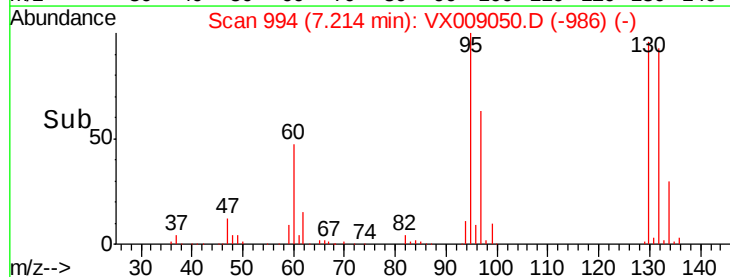
98 175.5 35.1 52.7#

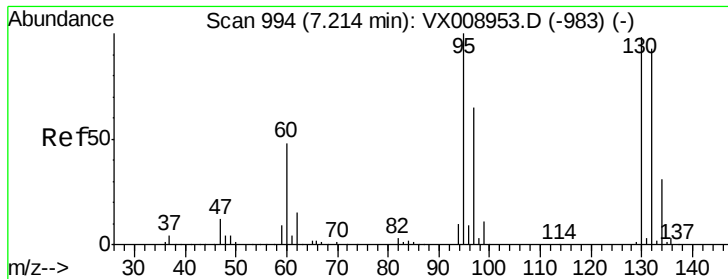


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

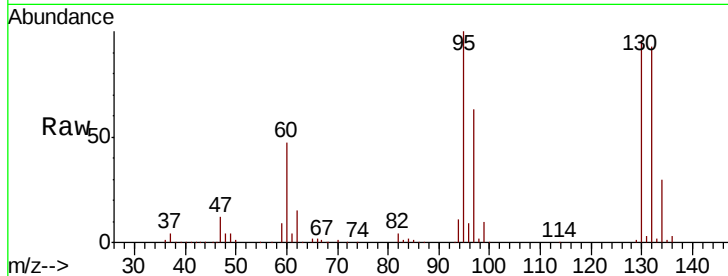




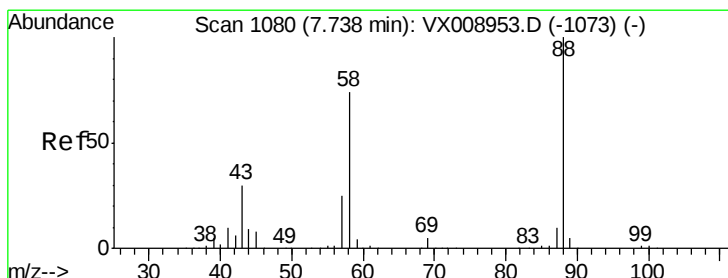
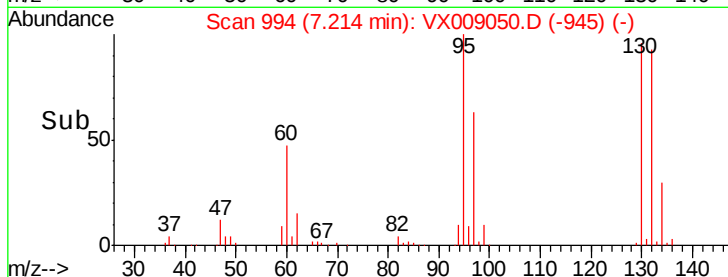
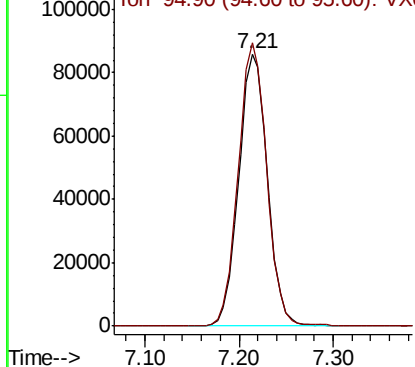
#44
 Trichloroethene
 Concen: 62.692 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX009050.D
 Acq: 18 Apr 2019 17:42

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0512-190416

Tot Ion:130 Resp: 182480
 Ion Ratio Lower Upper
 130 100
 95 104.0 0.0 203.2

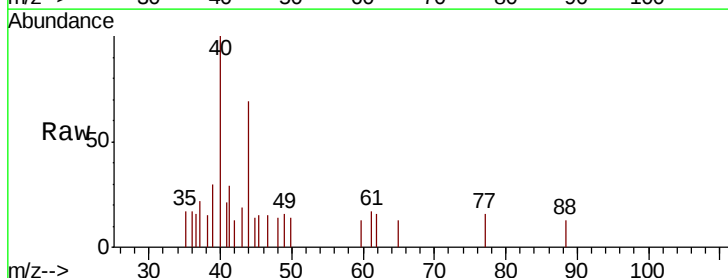


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

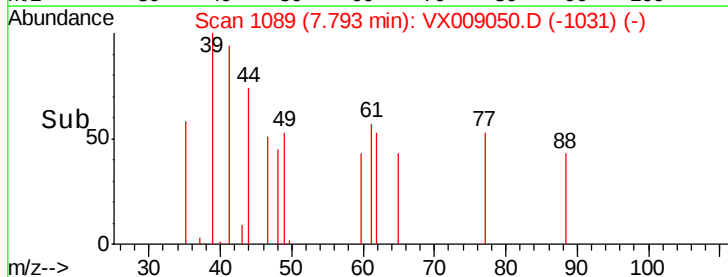
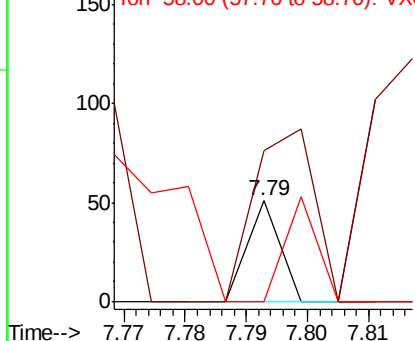


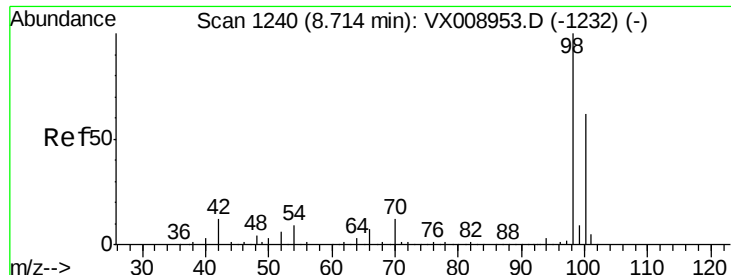
#49
 1,4-Dioxane
 Concen: 0.246 ug/l
 RT: 7.79 min Scan# 1089
 Delta R.T. 0.05 min
 Lab File: VX009050.D
 Acq: 18 Apr 2019 17:42

Tgt Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 315.8 29.3 43.9#
 58 100.0 62.6 93.8#



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: 47.822 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

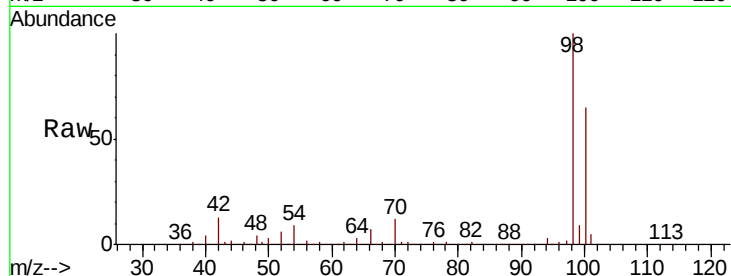
DUP-0512-190416

Tot Ion: 98 Resp: 476572

Ion Ratio Lower Upper

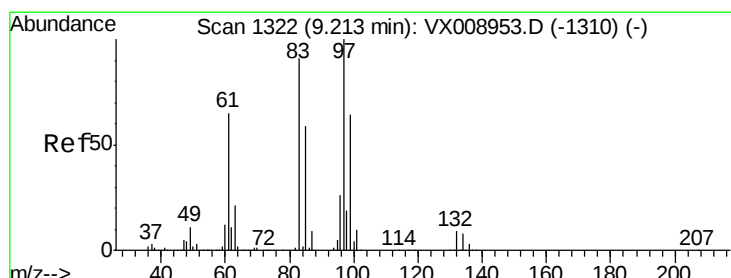
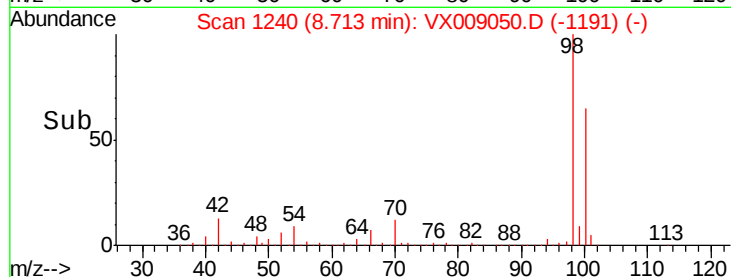
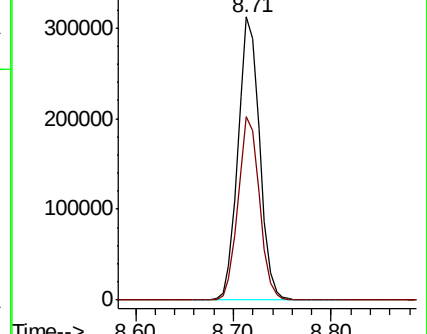
98 100

100 64.4 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.417 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Tgt Ion: 97 Resp: 1176

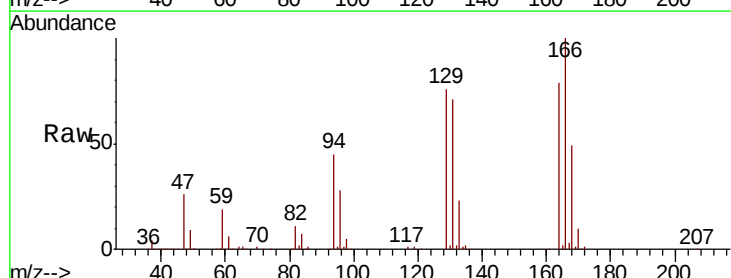
Ion Ratio Lower Upper

97 100

83 291.7 72.6 108.8#

85 35.2 46.9 70.3#

99 18.2 51.0 76.6#

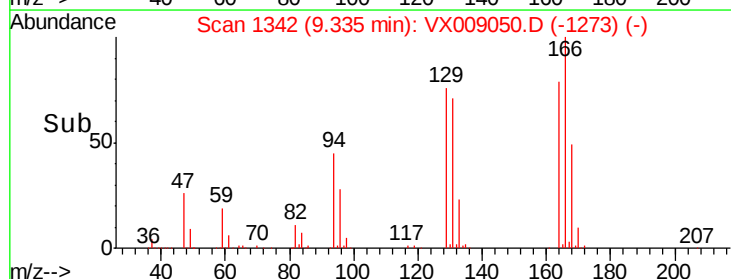
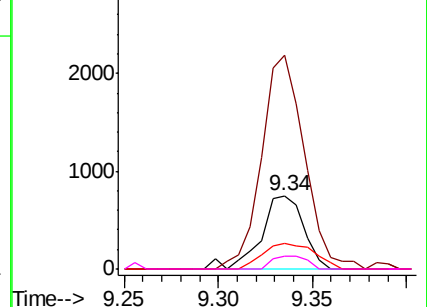


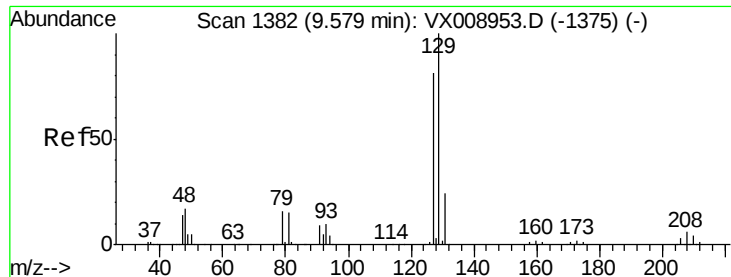
Abundance Ion 96.90 (96.60 to 97.60): VX0

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

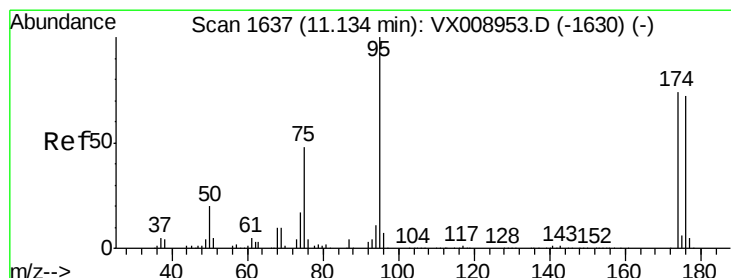
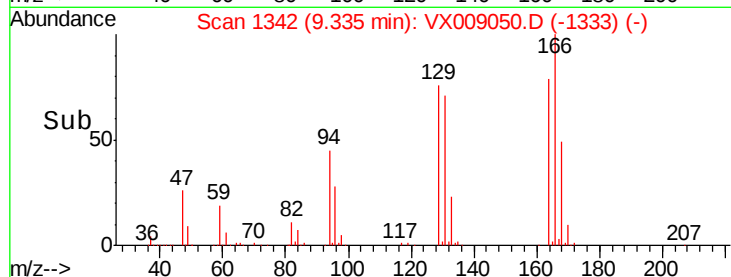
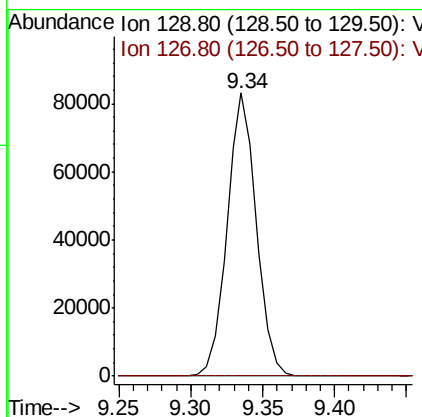
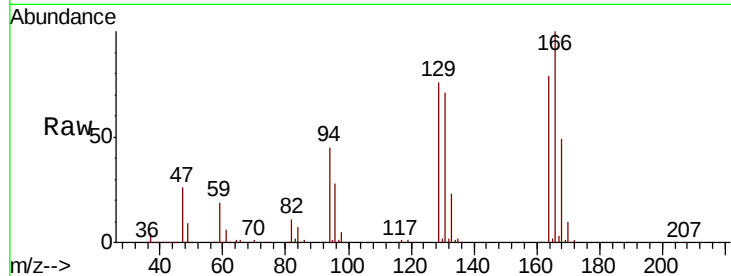




#60
 Dibromochloromethane
 Concen: 43.686 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009050.D
 Acq: 18 Apr 2019 17:42

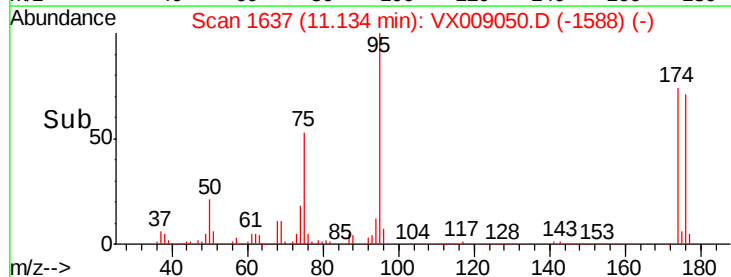
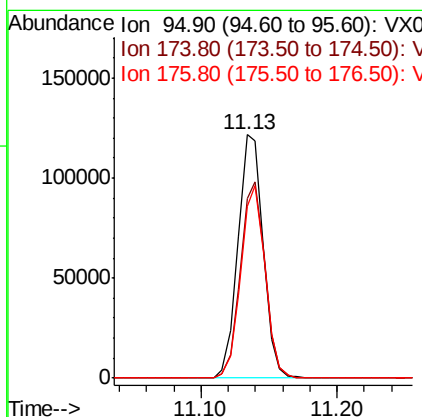
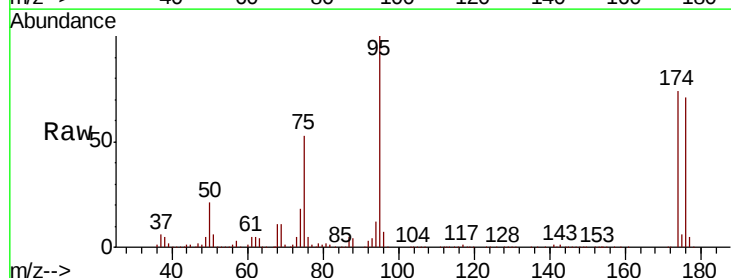
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0512-190416

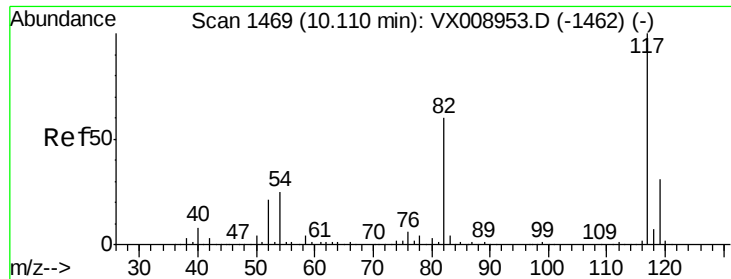
Tot Ion:129 Resp: 118143
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 44.418 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009050.D
 Acq: 18 Apr 2019 17:42

Tgt Ion: 95 Resp: 156257
 Ion Ratio Lower Upper
 95 100
 174 79.3 0.0 159.6
 176 76.9 0.0 154.8

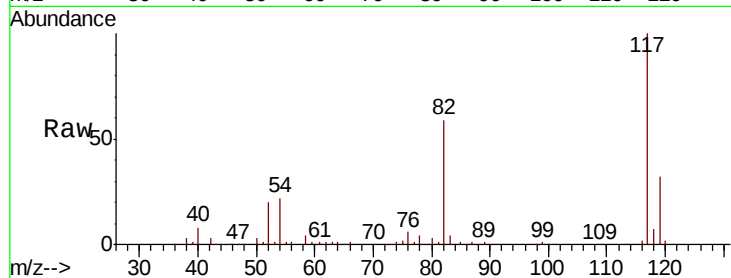




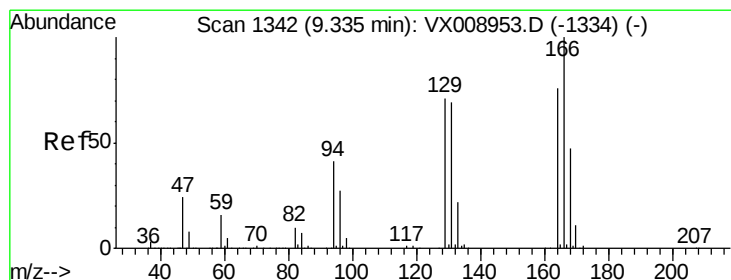
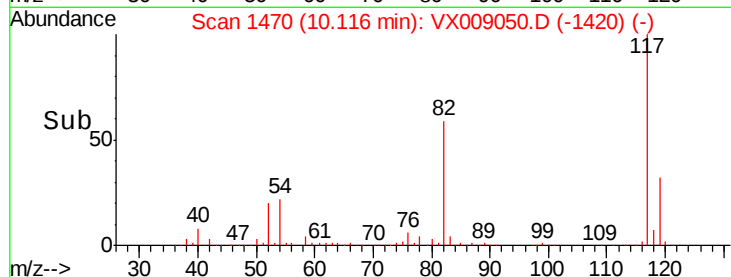
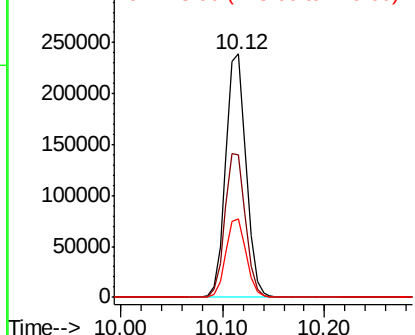
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009050.D
Acq: 18 Apr 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
DUP-0512-190416

Tot Ion:117 Resp: 329839
Ion Ratio Lower Upper
117 100
82 58.7 48.2 72.4
119 32.4 25.0 37.6



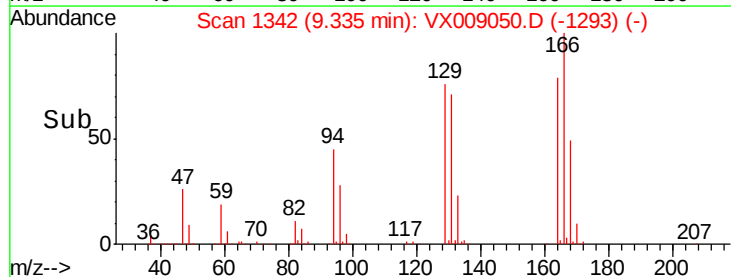
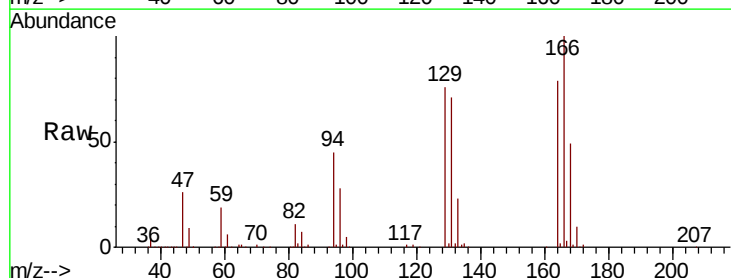
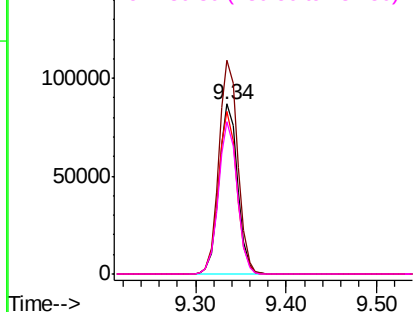
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

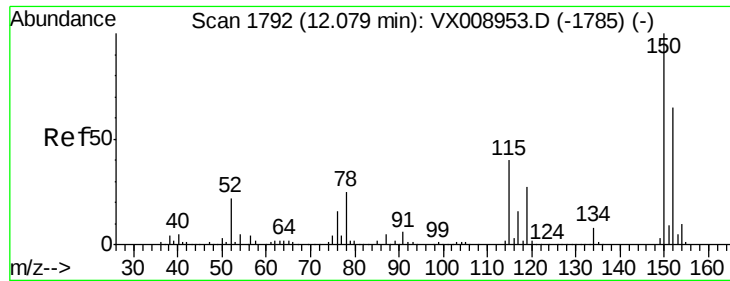


#64
Tetrachloroethene
Concen: 49.893 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009050.D
Acq: 18 Apr 2019 17:42

Tgt Ion:164 Resp: 125017
Ion Ratio Lower Upper
164 100
166 125.8 105.0 157.4
129 95.8 74.2 111.4
131 89.5 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: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416

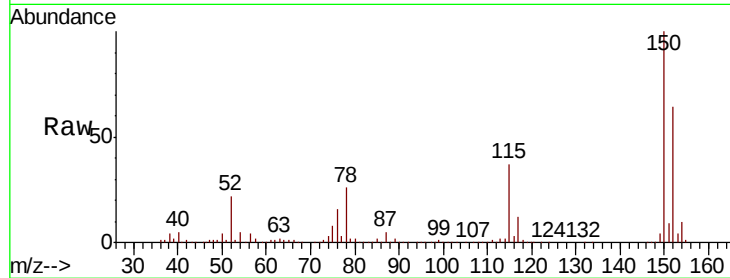
Tot Ion:152 Resp: 138001

Ion Ratio Lower Upper

152 100

115 60.6 41.4 124.2

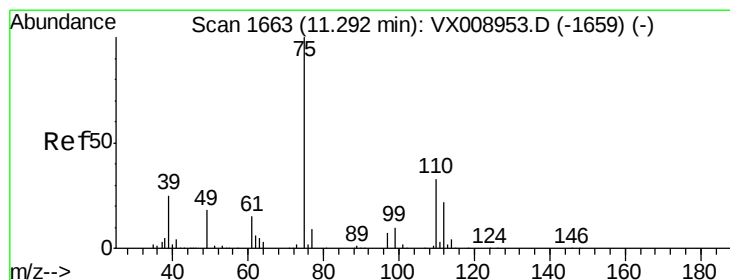
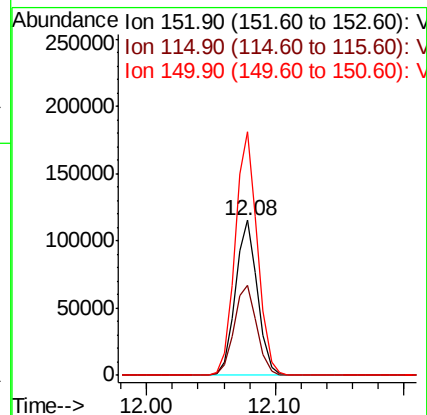
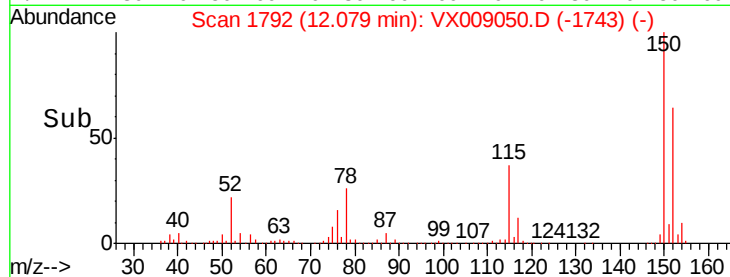
150 158.6 0.0 349.8



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: 23.815 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009050.D

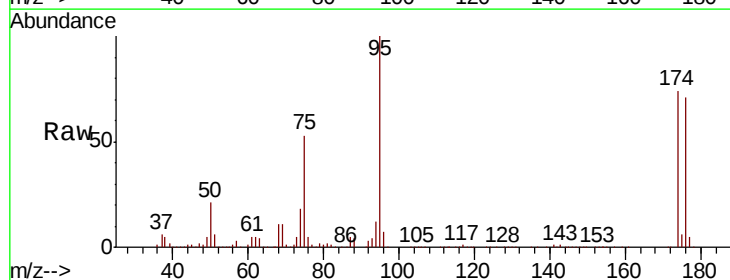
Acq: 18 Apr 2019 17:42

Tgt Ion: 75 Resp: 80249

Ion Ratio Lower Upper

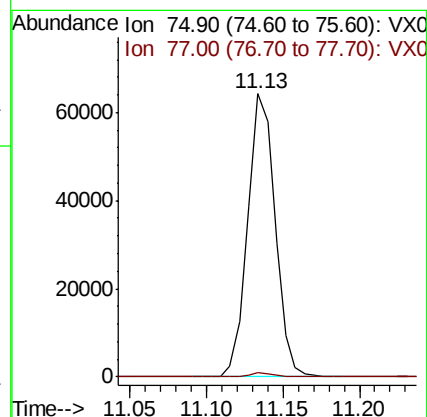
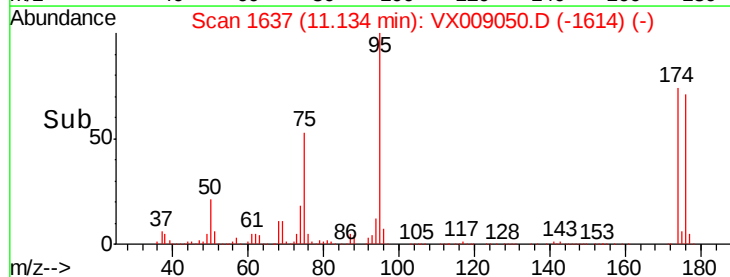
75 100

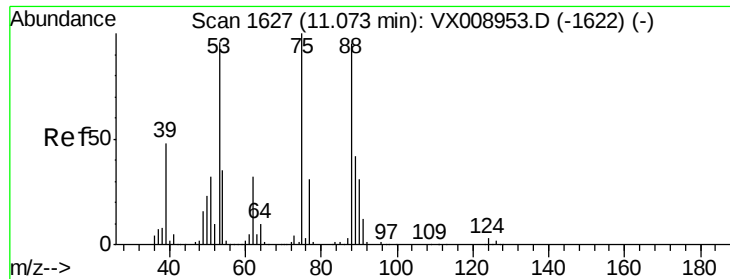
77 1.5 22.7 68.0#



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: 61.139 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009050.D

Acq: 18 Apr 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-0512-190416

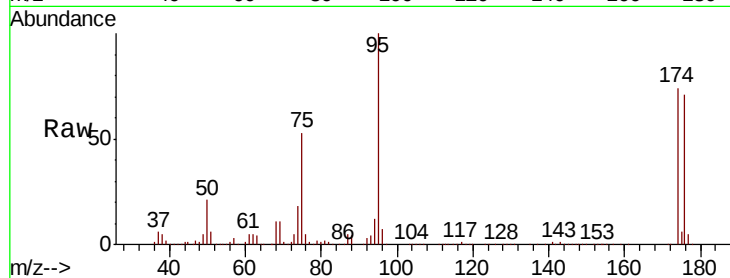
Tot Ion: 75 Resp: 80249

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 36.0 54.0#



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

