

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009639.D
 Acq On : 17 May 2019 04:27
 Operator : JC/SP
 Sample : K2887-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW749-190514

Quant Time: May 17 06:45:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	175760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	282108	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106761	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	118316	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	5.50	113	86211	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
50) Toluene-d8	8.71	98	353761	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	11.13	95	118347	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

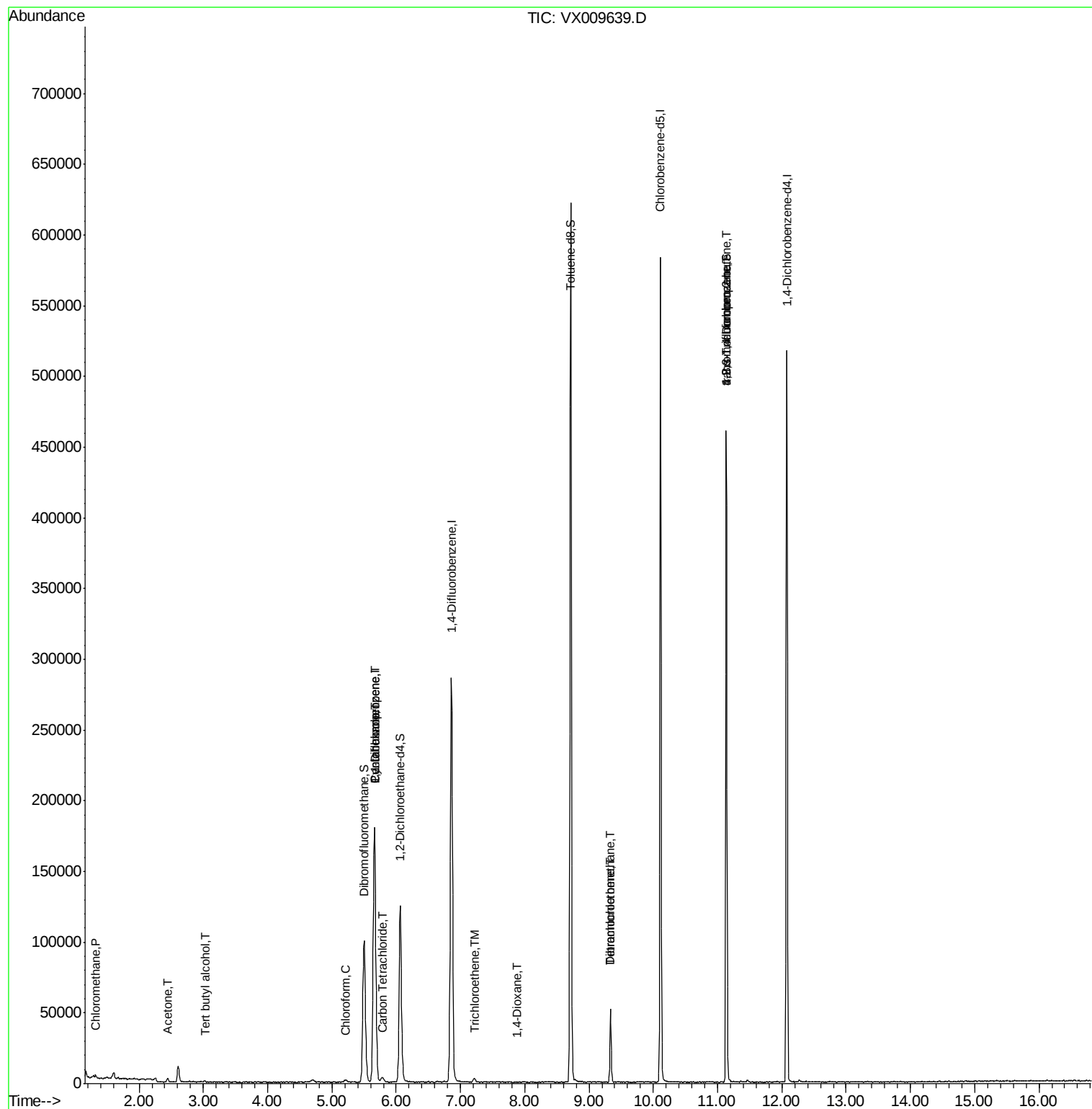
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1532	0.693	ug/l	98
11) Tert butyl alcohol	3.02	59	650	1.170	ug/l #	73
16) Acetone	2.45	43	3244	2.518	ug/l	97
28) Bromochloromethane	4.99	49	22	Below Cal	#	20
30) Chloroform	5.21	83	1713	0.497	ug/l	88
31) Cyclohexane	5.66	56	3967	1.118	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13767	5.251	ug/l #	50
38) Carbon Tetrachloride	5.78	117	2689	1.129	ug/l	89
44) Trichloroethene	7.22	130	1104	0.563	ug/l	96
49) 1,4-Dioxane	7.88	88	39	0.663	ug/l #	20
60) Dibromochloromethane	9.34	129	9232	4.698	ug/l #	11
64) Tetrachloroethene	9.34	164	9945	5.798	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	60613	24.476	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60613	62.624	ug/l #	10

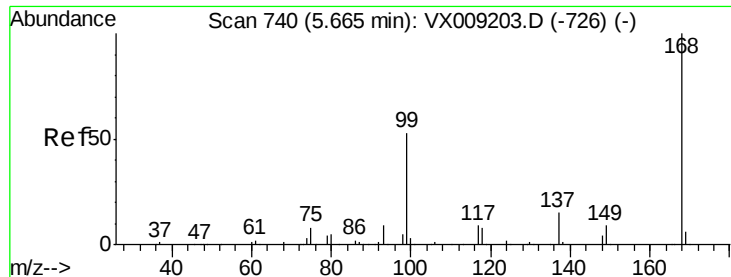
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 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: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

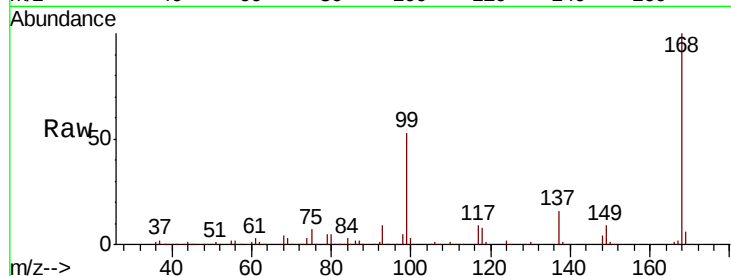
SS052MW749-190514

Tot Ion:168 Resp: 175760

Ion Ratio Lower Upper

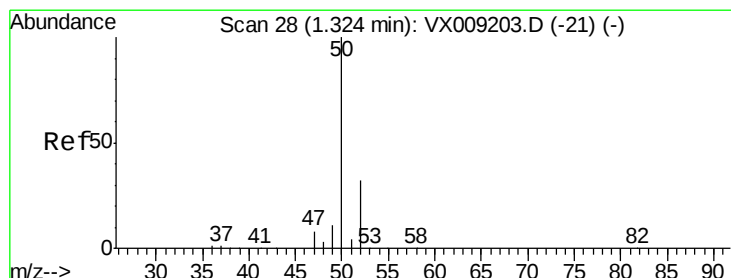
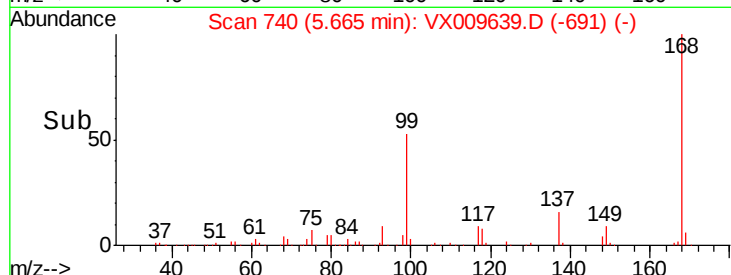
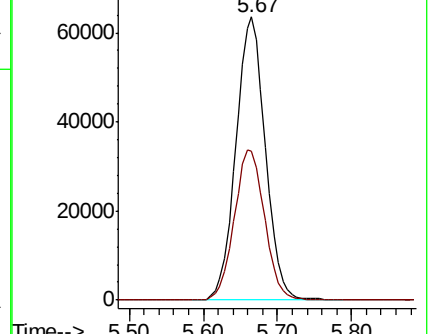
168 100

99 52.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.693 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009639.D

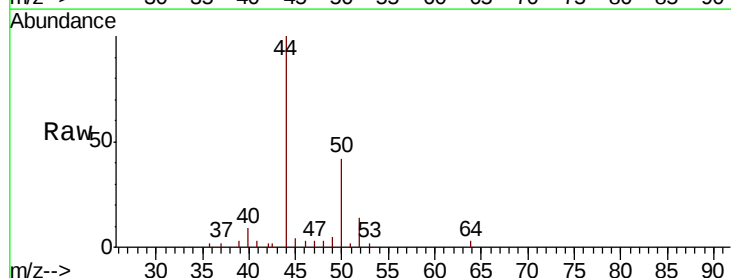
Acq: 17 May 2019 04:27

Tgt Ion: 50 Resp: 1532

Ion Ratio Lower Upper

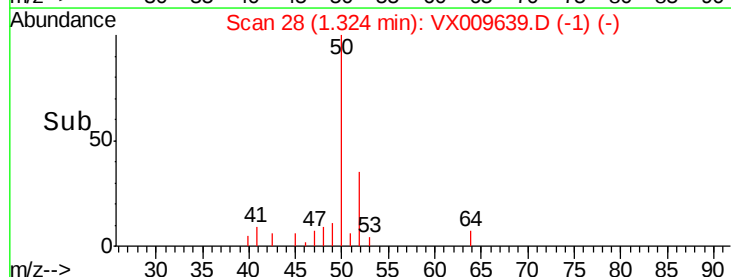
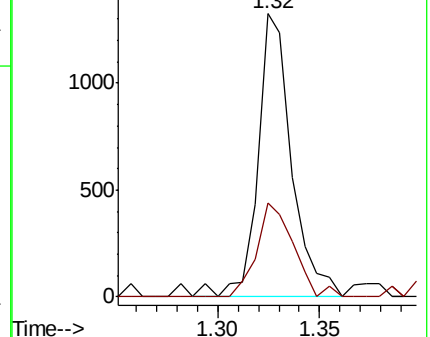
50 100

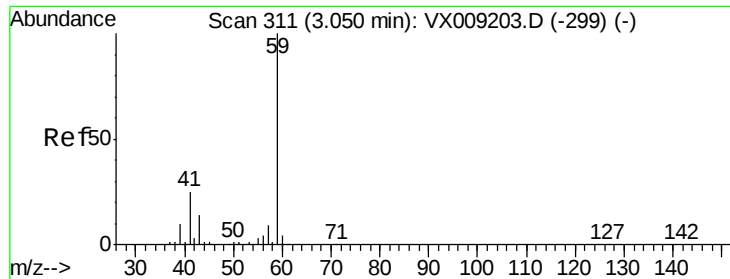
52 33.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

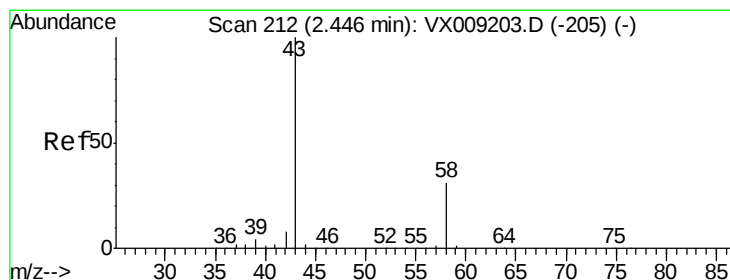
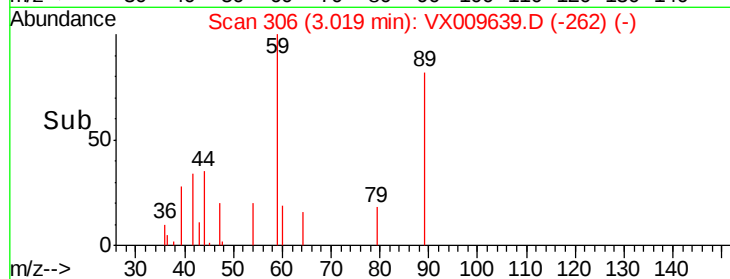
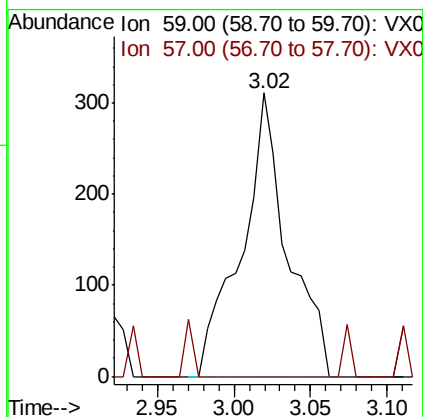
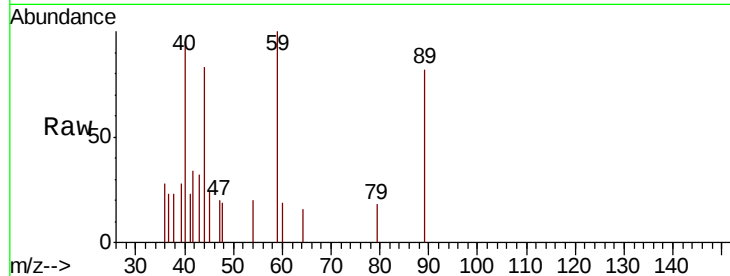




#11
Tert butyl alcohol
Concen: 1.170 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009639.D
Acq: 17 May 2019 04:27

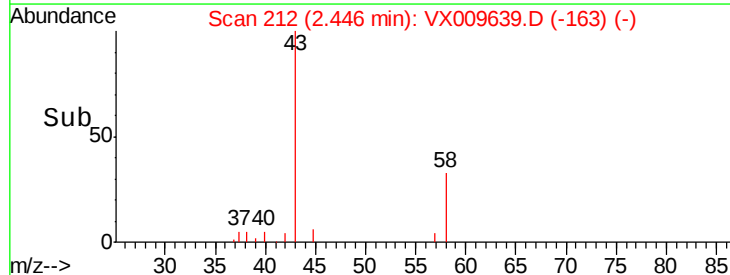
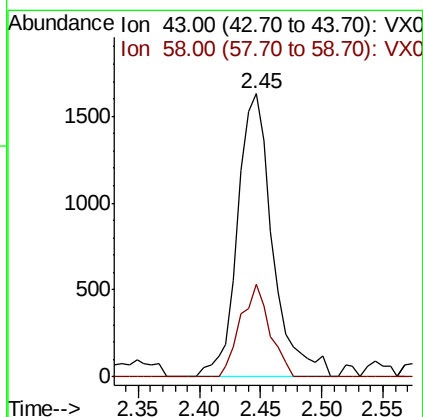
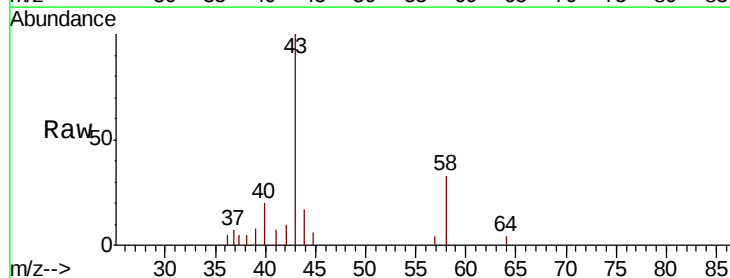
Instrument :
MSVOA_X
ClientSampleId :
SS052MW749-190514

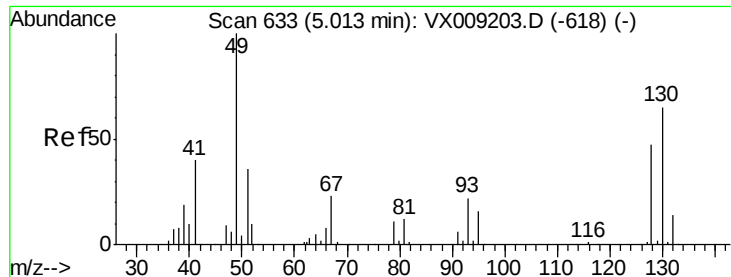
Tot Ion: 59 Resp: 650
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 2.518 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX009639.D
Acq: 17 May 2019 04:27

Tgt Ion: 43 Resp: 3244
Ion Ratio Lower Upper
43 100
58 32.9 24.9 37.3





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

SS052MW749-190514

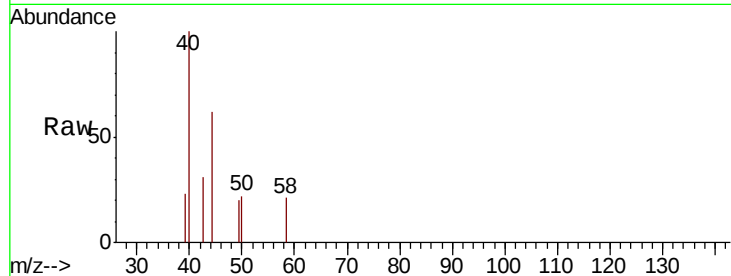
Tot Ion: 49 Resp: 22

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

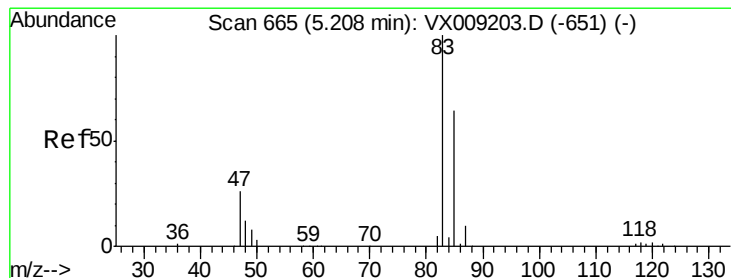
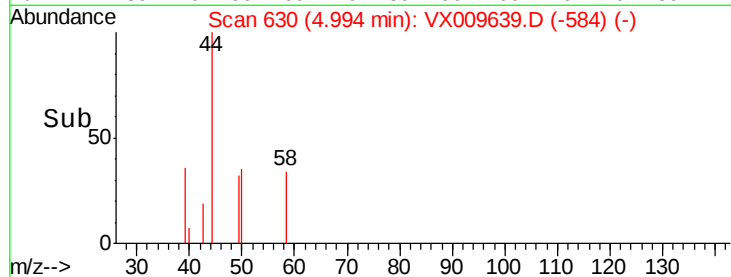
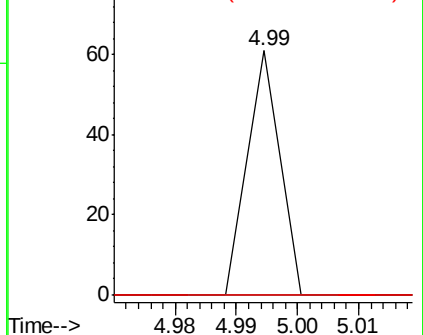
130 0.0 51.2 76.8#



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



#30

Chloroform

Concen: 0.497 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.01 min

Lab File: VX009639.D

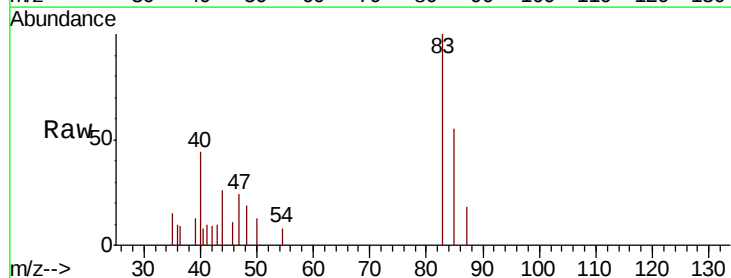
Acq: 17 May 2019 04:27

Tgt Ion: 83 Resp: 1713

Ion Ratio Lower Upper

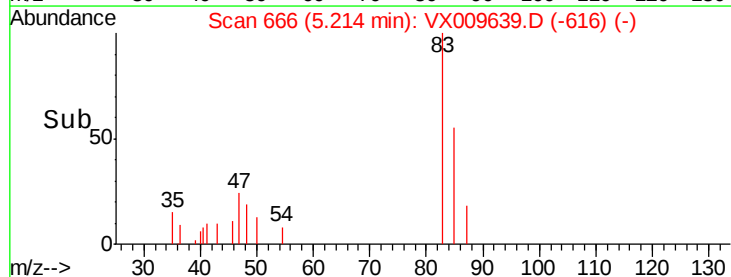
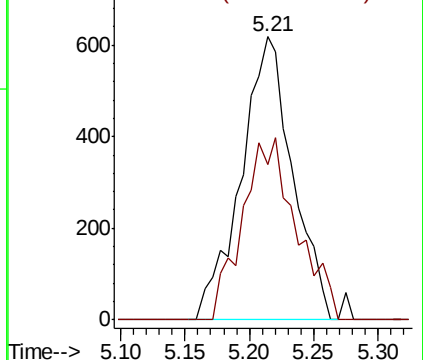
83 100

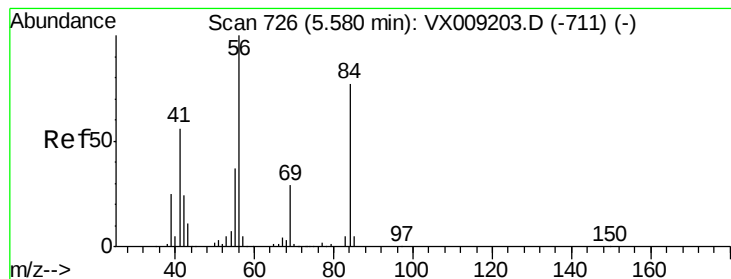
85 54.7 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.118 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

SS052MW749-190514

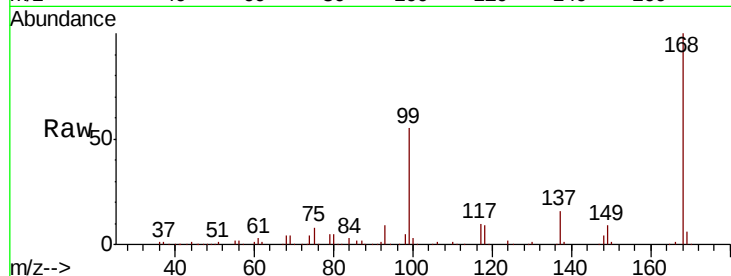
Tot Ion: 56 Resp: 3967

Ion Ratio Lower Upper

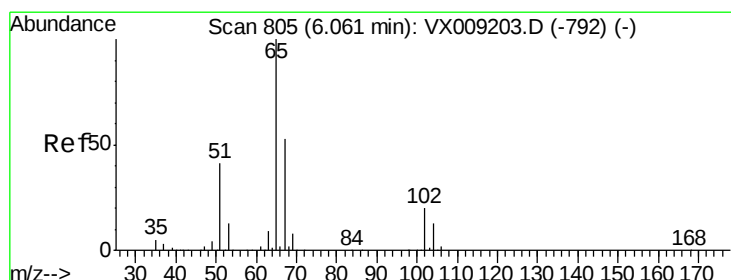
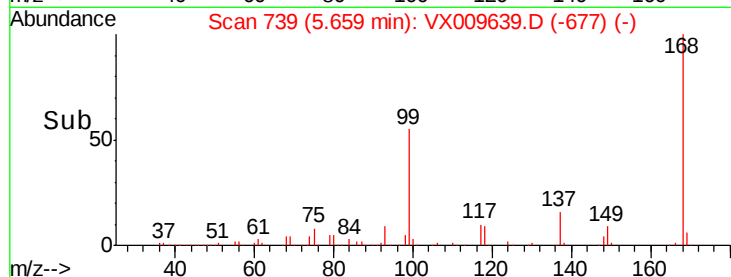
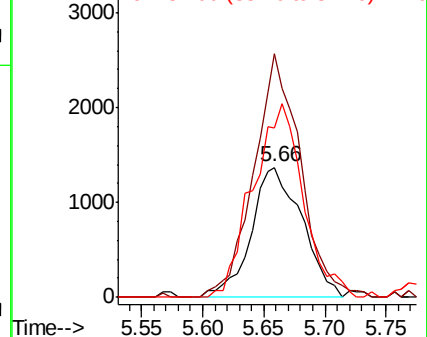
56 100

69 187.5 23.4 35.0#

84 130.3 61.9 92.9#



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: 49.312 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009639.D

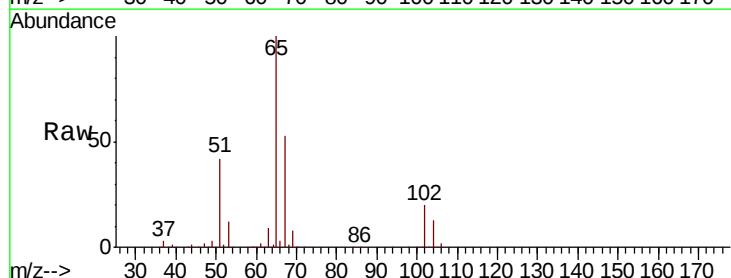
Acq: 17 May 2019 04:27

Tgt Ion: 65 Resp: 118316

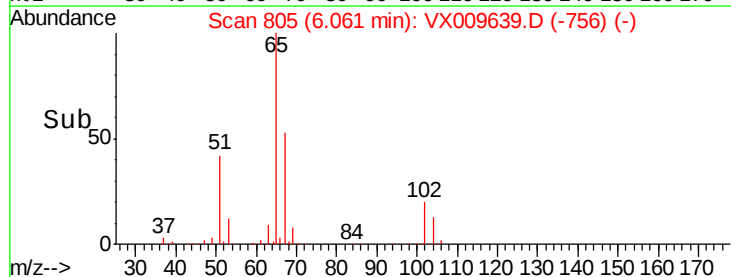
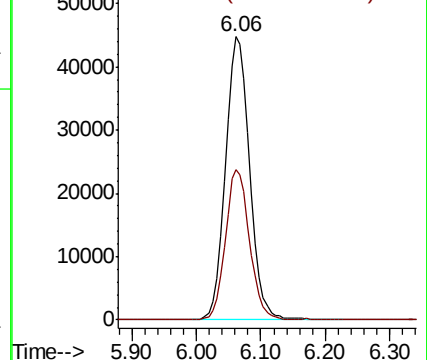
Ion Ratio Lower Upper

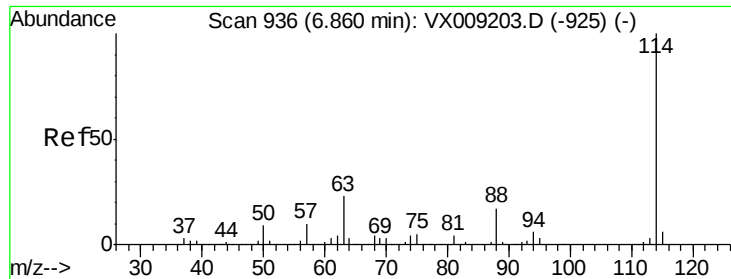
65 100

67 53.0 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

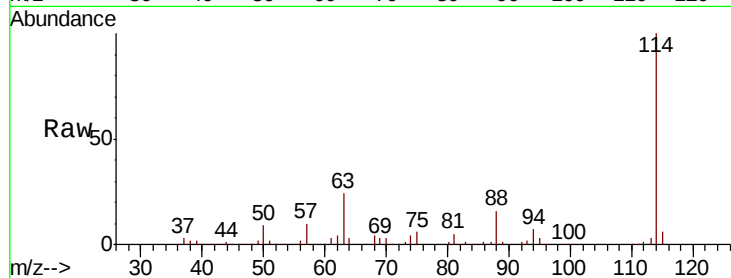




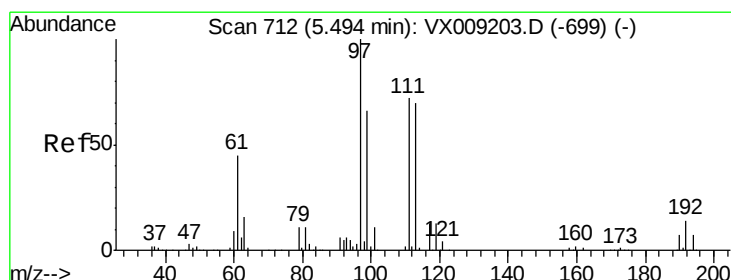
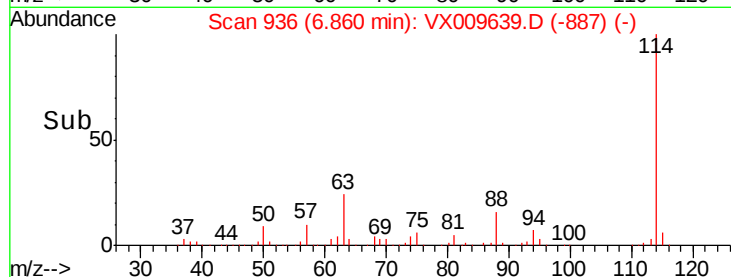
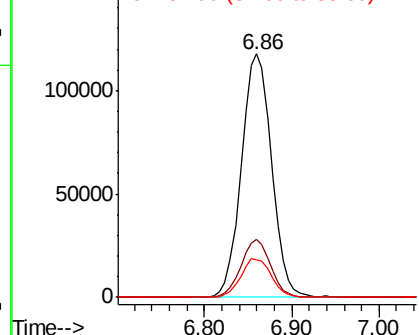
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009639.D
 Acq: 17 May 2019 04:27

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW749-190514

Tot Ion:114 Resp: 282108
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 45.6
 88 15.6 0.0 33.2

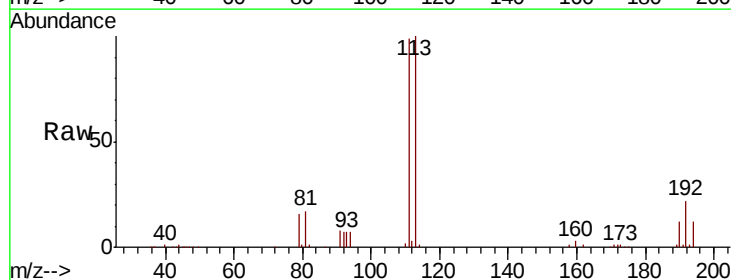


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

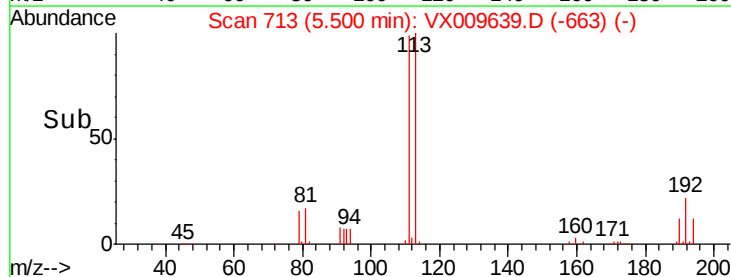
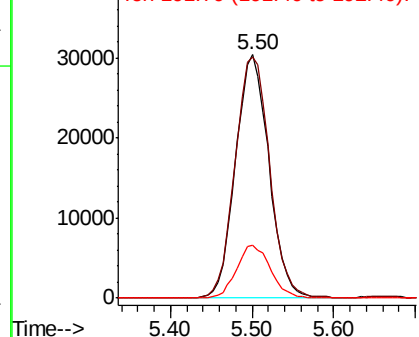


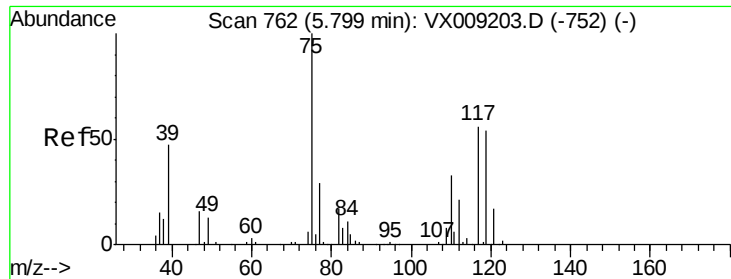
#35
 Dibromofluoromethane
 Concen: 48.612 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009639.D
 Acq: 17 May 2019 04:27

Tgt Ion:113 Resp: 86211
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.8 124.2
 192 22.2 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.251 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

SS052MW749-190514

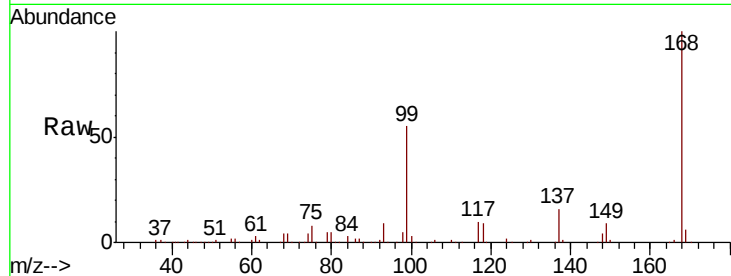
Tot Ion: 75 Resp: 13767

Ion Ratio Lower Upper

75 100

110 8.8 16.9 50.6#

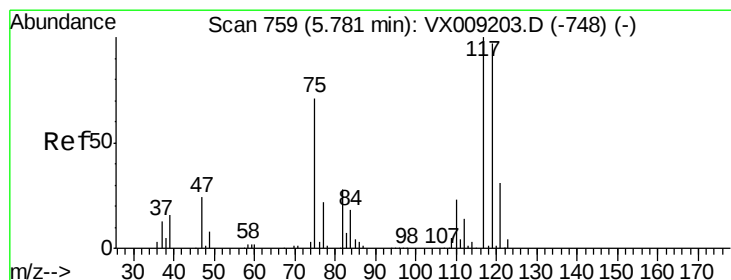
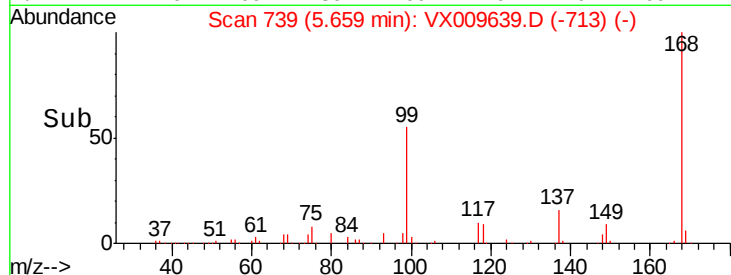
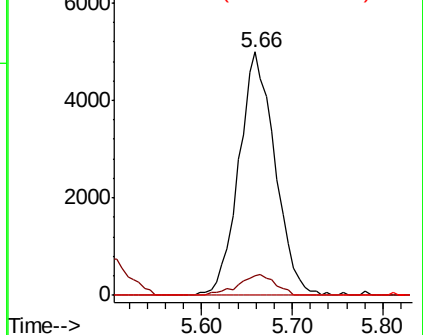
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 1.129 ug/l

RT: 5.78 min Scan# 759

Delta R.T. -0.00 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

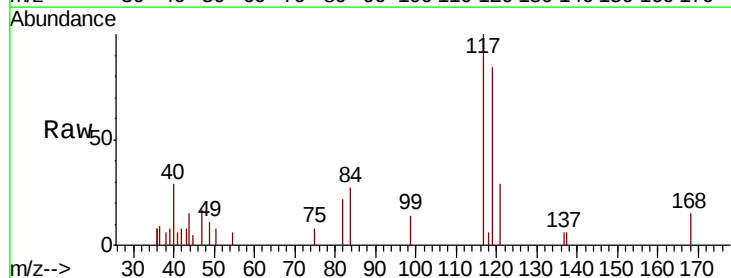
Tgt Ion: 117 Resp: 2689

Ion Ratio Lower Upper

117 100

119 83.8 77.5 116.3

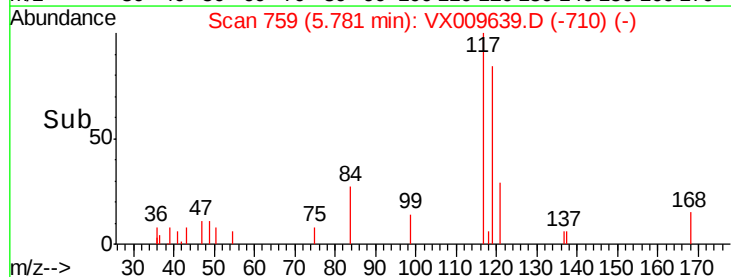
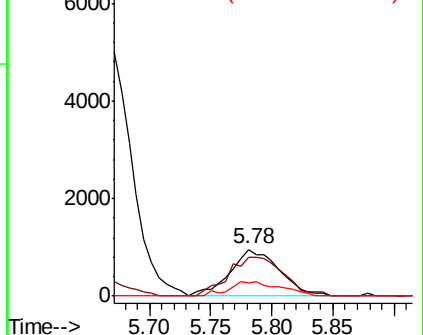
121 28.9 24.7 37.1

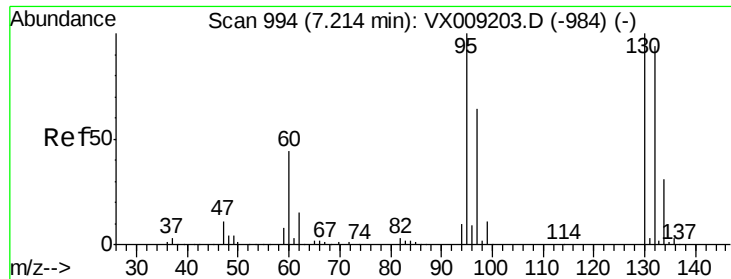


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

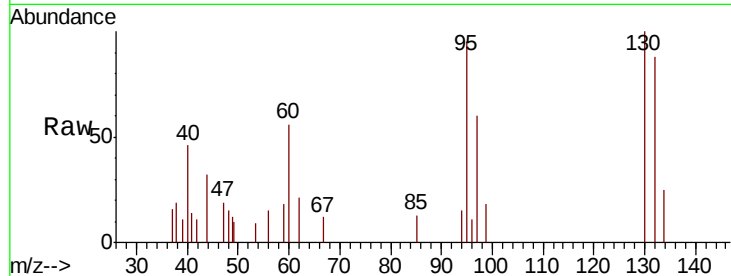




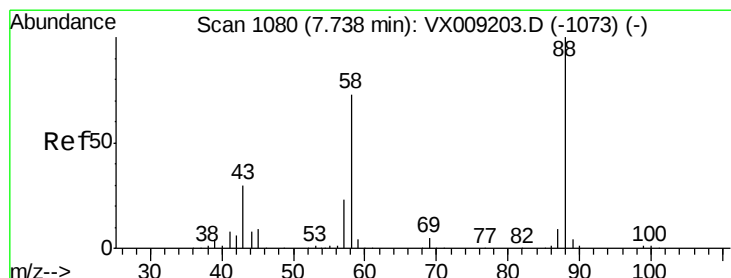
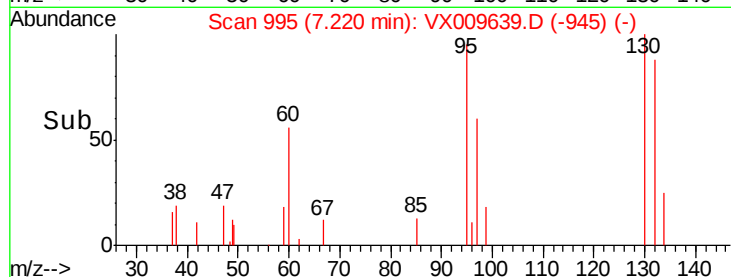
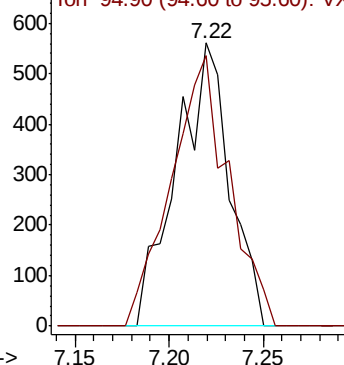
#44
 Trichloroethene
 Concen: 0.563 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX009639.D
 Acq: 17 May 2019 04:27

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW749-190514

Tot Ion:130 Resp: 1104
 Ion Ratio Lower Upper
 130 100
 95 95.4 0.0 199.2

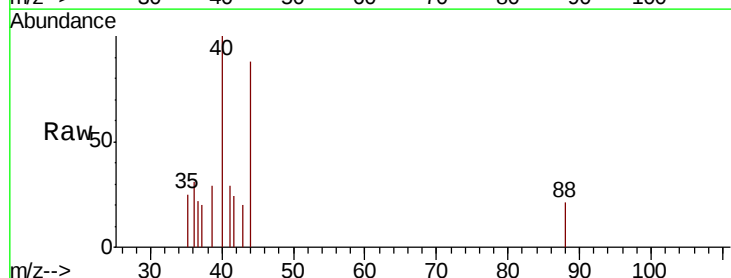


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

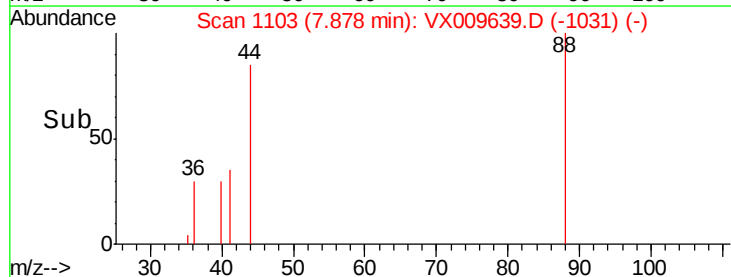
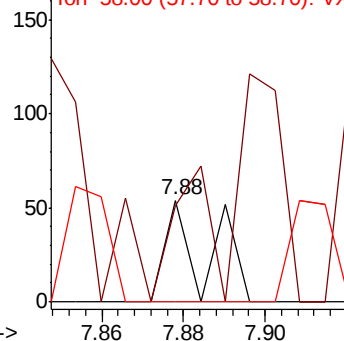


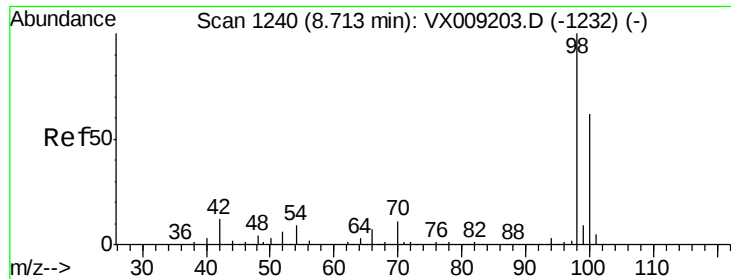
#49
 1,4-Dioxane
 Concen: 0.663 ug/l
 RT: 7.88 min Scan# 1103
 Delta R.T. 0.14 min
 Lab File: VX009639.D
 Acq: 17 May 2019 04:27

Tgt Ion: 88 Resp: 39
 Ion Ratio Lower Upper
 88 100
 43 0.0 28.6 42.8#
 58 0.0 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.409 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

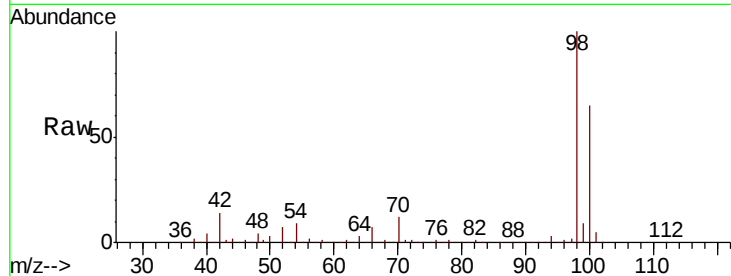
SS052MW749-190514

Tot Ion: 98 Resp: 353761

Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

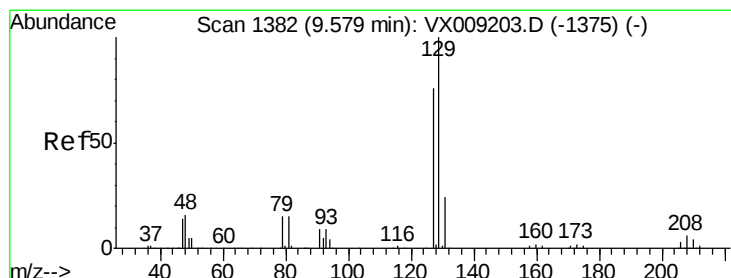
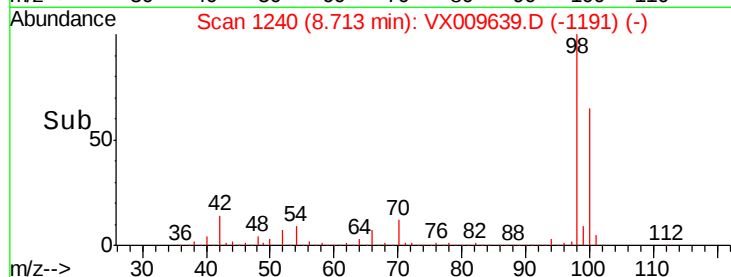
100000

50000

0

Time-->

8.60 8.70 8.80



#60

Dibromochloromethane

Concen: 4.698 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009639.D

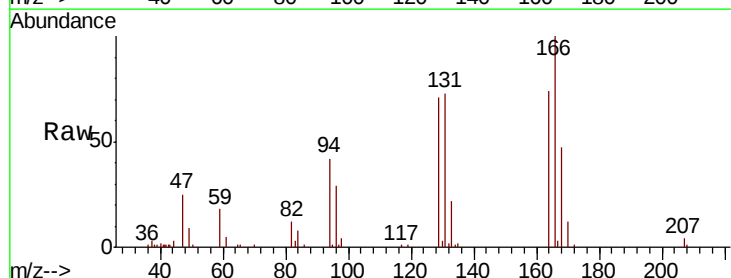
Acq: 17 May 2019 04:27

Tgt Ion:129 Resp: 9232

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

6000

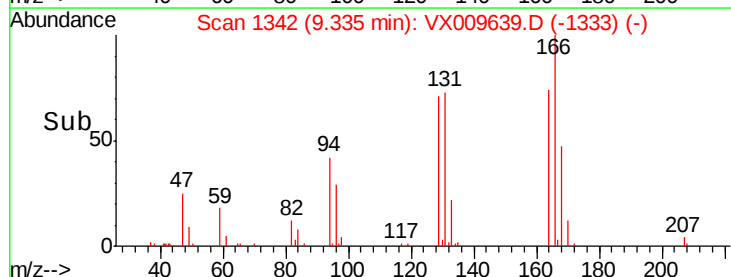
4000

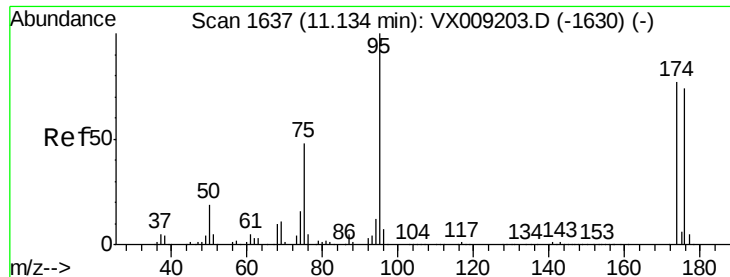
2000

0

Time-->

9.30 9.35 9.40





#62

4-Bromofluorobenzene

Concen: 45.490 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

SS052MW749-190514

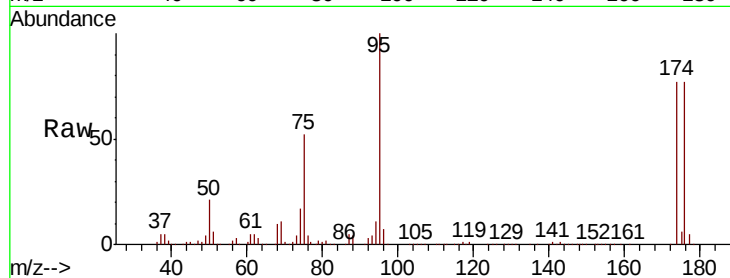
Tot Ion: 95 Resp: 118347

Ion Ratio Lower Upper

95 100

174 81.6 0.0 161.6

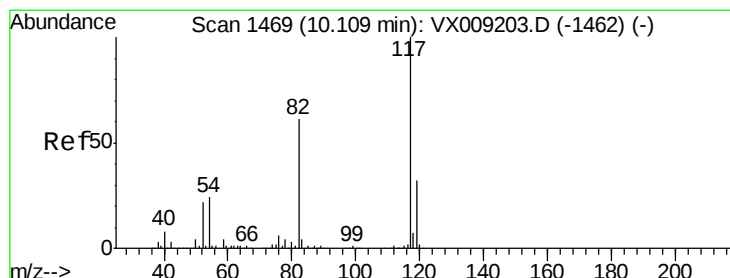
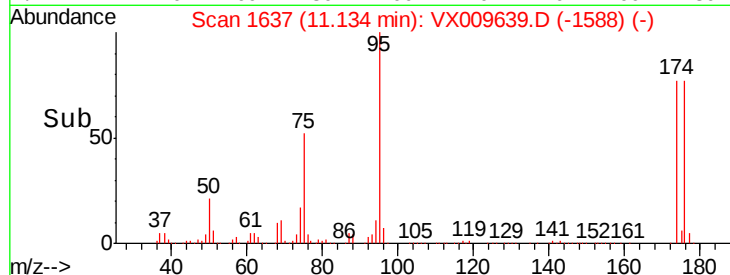
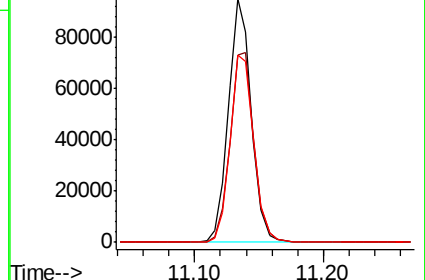
176 79.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009203.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX009203.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX009203.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

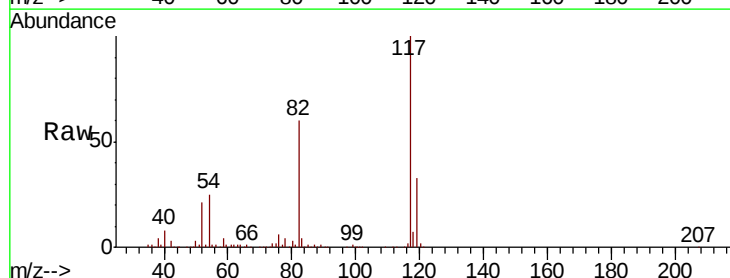
Tgt Ion: 117 Resp: 250054

Ion Ratio Lower Upper

117 100

82 60.3 48.8 73.2

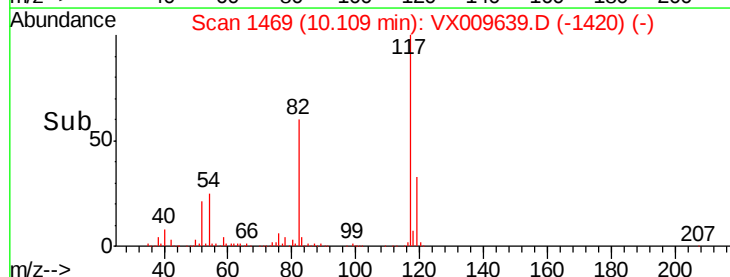
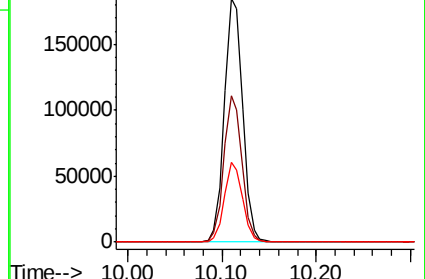
119 32.8 25.8 38.6

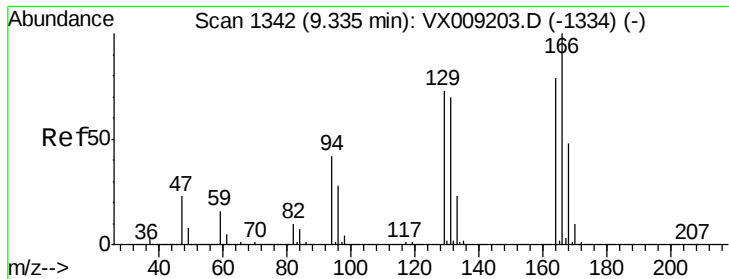


Abundance Ion 116.90 (116.60 to 117.60): VX009203.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX009203.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX009203.D (-1462) (-)





#64

Tetrachloroethene

Concen: 5.798 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

SS052MW749-190514

Tot Ion:164 Resp: 9945

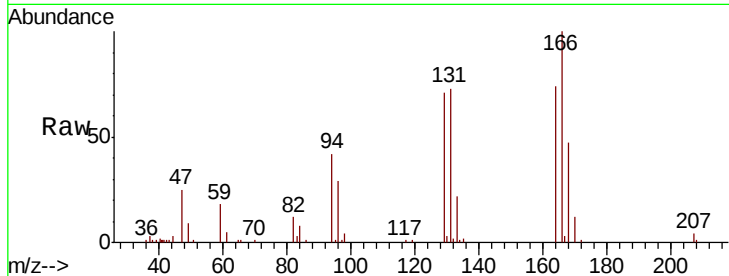
Ion Ratio Lower Upper

164 100

166 134.6 101.2 151.8

129 95.9 74.3 111.5

131 98.0 71.0 106.6



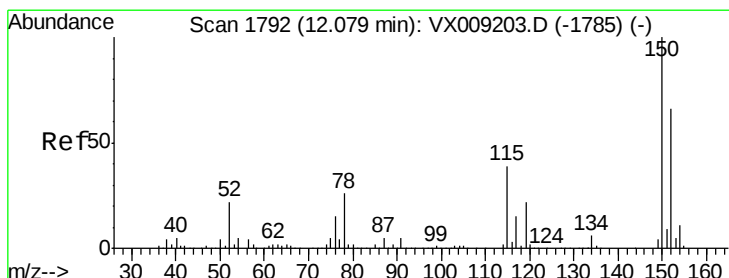
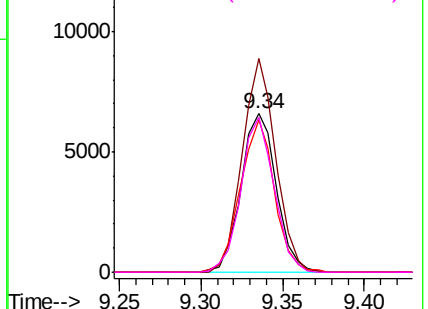
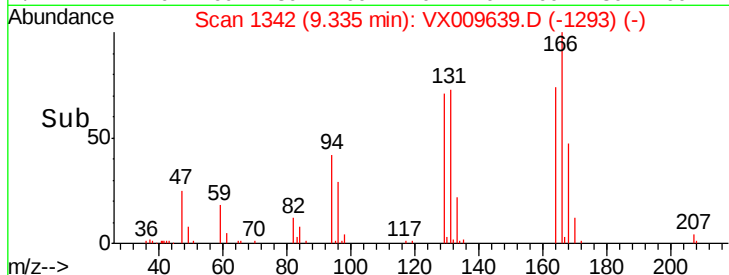
Abundance

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: VX009639.D

Acq: 17 May 2019 04:27

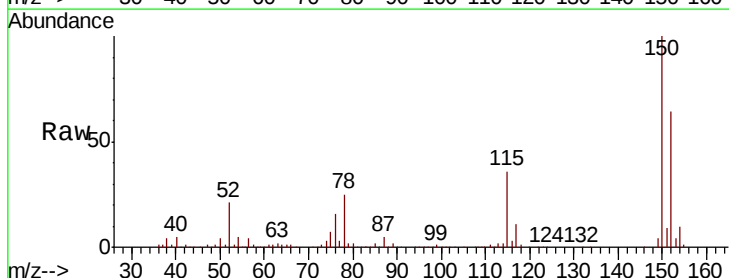
Tgt Ion:152 Resp: 106761

Ion Ratio Lower Upper

152 100

115 59.1 41.2 123.6

150 157.6 0.0 346.4

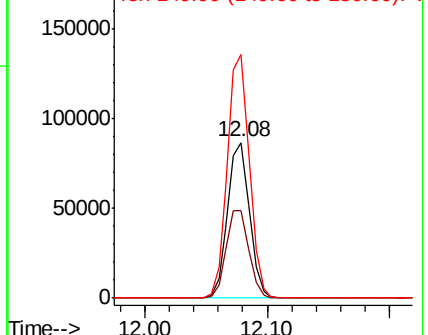
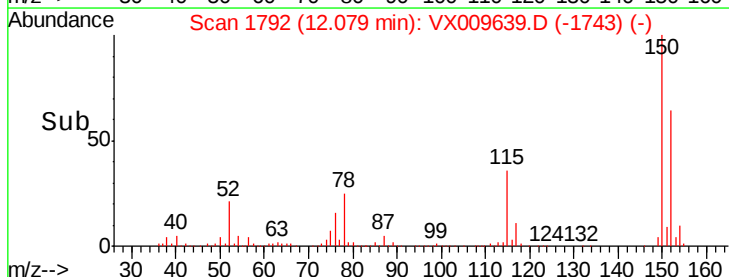


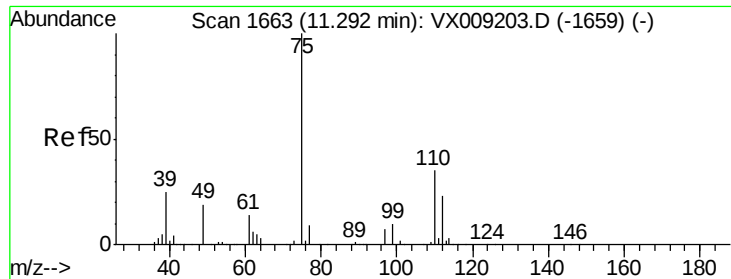
Abundance

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: 24.476 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

Instrument :

MSVOA_X

ClientSampleId :

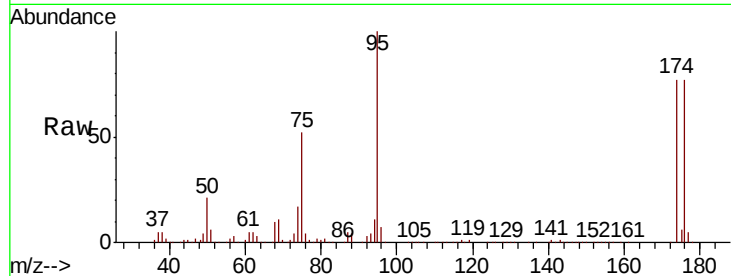
SS052MW749-190514

Tot Ion: 75 Resp: 60613

Ion Ratio Lower Upper

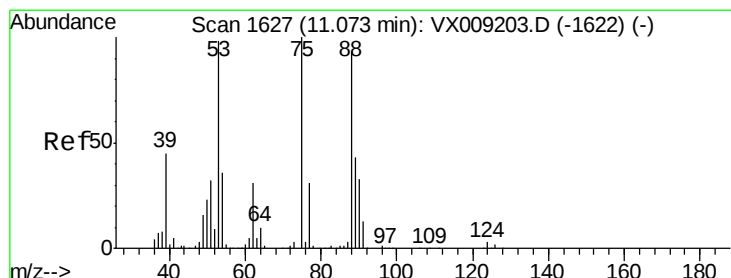
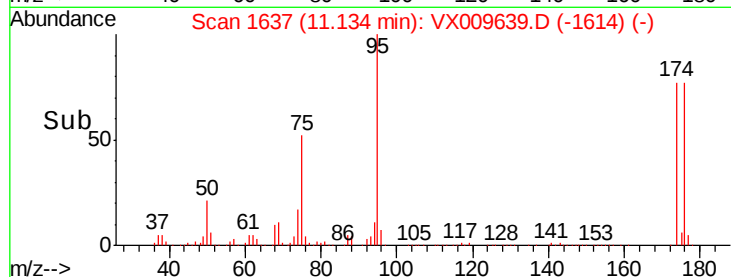
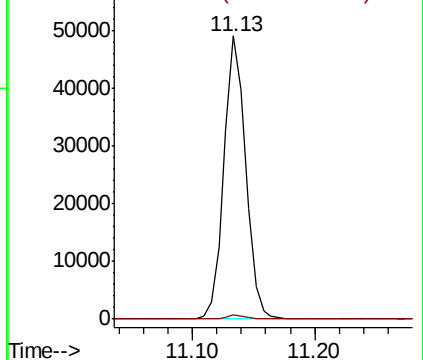
75 100

77 1.3 22.1 66.1#



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: 62.624 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009639.D

Acq: 17 May 2019 04:27

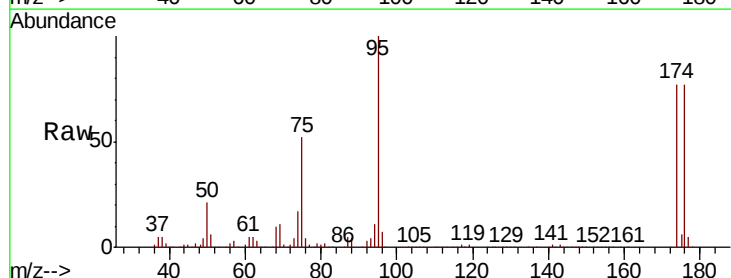
Tgt Ion: 75 Resp: 60613

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



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

