

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040819\
 Data File : VX008741.D
 Acq On : 08 Apr 2019 13:40
 Operator : JC/SP
 Sample : K2295-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW305-190404

Quant Time: Apr 09 06:43:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	193830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	324998	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	275678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114698	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	133845	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
35) Dibromofluoromethane	5.50	113	99421	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
50) Toluene-d8	8.71	98	401486	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	11.13	95	131662	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	

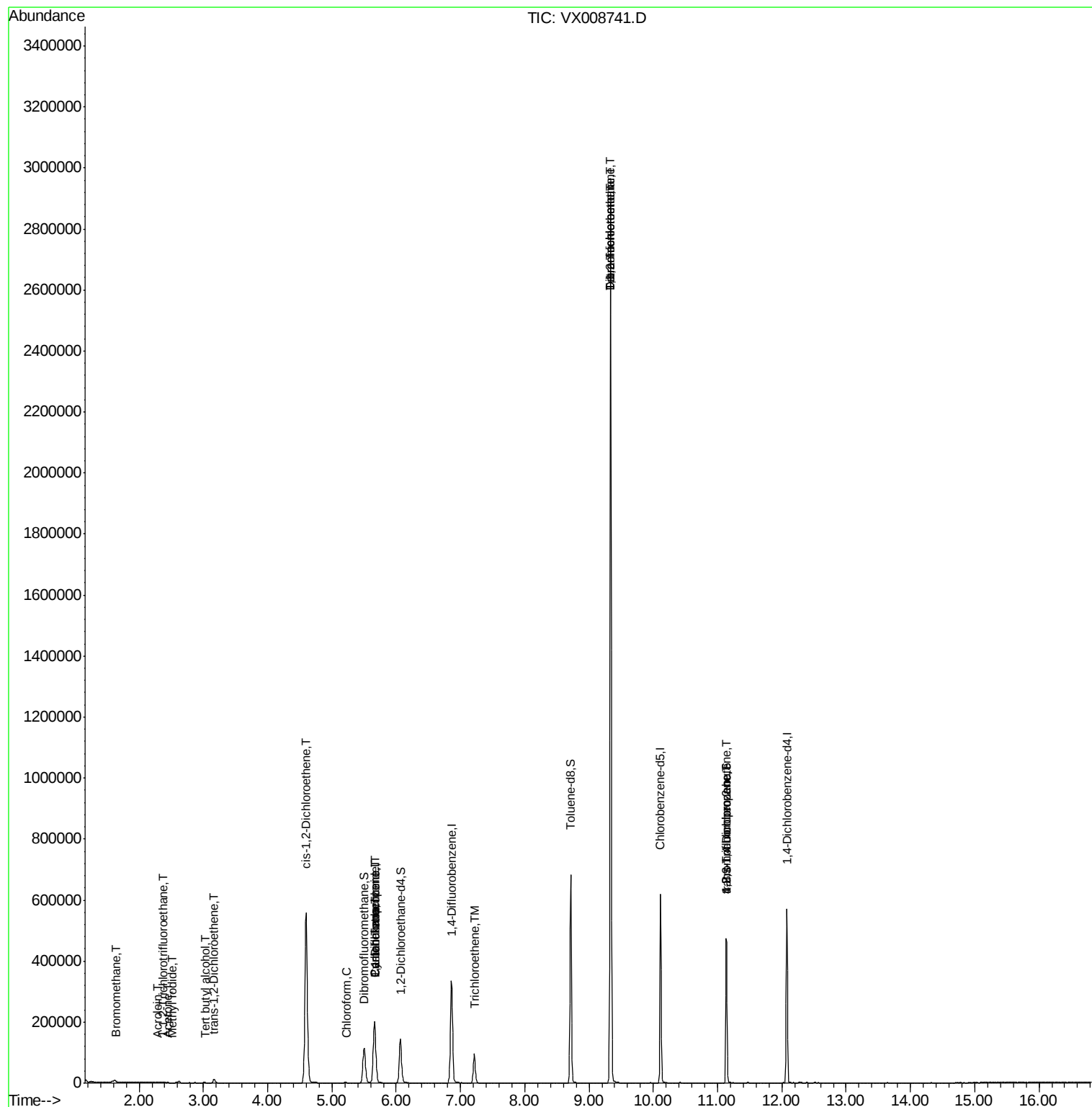
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	447	Below Cal	#	82
5) Bromomethane	1.64	94	501	2.210	ug/l	86
6) Chloroethane	1.72	64	219	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	815	0.380	ug/l #	90
10) Methyl Iodide	2.51	142	296	4.142	ug/l #	88
11) Tert butyl alcohol	3.03	59	797	1.204	ug/l #	72
13) Acrolein	2.28	56	207	0.631	ug/l #	53
16) Acetone	2.45	43	1012	0.621	ug/l	99
17) Carbon Disulfide	2.57	76	751	Below Cal	#	62
21) trans-1,2-Dichloroethene	3.17	96	4631	1.911	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	345518	123.986	ug/l	89
28) Bromochloromethane	5.04	49	78	Below Cal	#	22
30) Chloroform	5.21	83	931	0.213	ug/l #	81
31) Cyclohexane	5.67	56	4249	0.870	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15667	4.410	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18505	6.294	ug/l #	18
44) Trichloroethene	7.21	130	35752	14.504	ug/l	100
55) 1,1,2-Trichloroethane	9.34	97	4585	1.831	ug/l #	1
60) Dibromochloromethane	9.34	129	523036	221.614	ug/l #	11
64) Tetrachloroethene	9.34	164	555845	272.142	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	66797	21.200	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66797	58.438	ug/l #	9

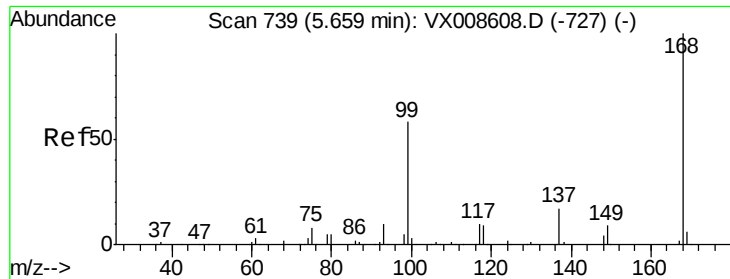
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

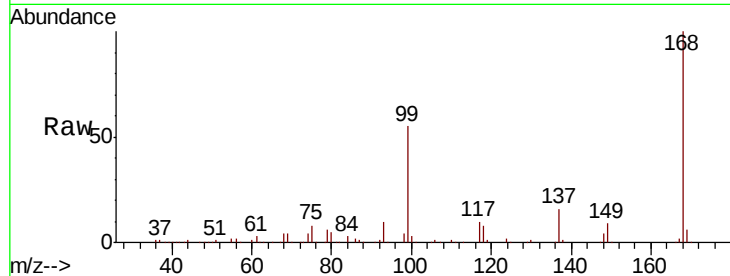
ST008MW305-190404

Tot Ion:168 Resp: 193830

Ion Ratio Lower Upper

168 100

99 54.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

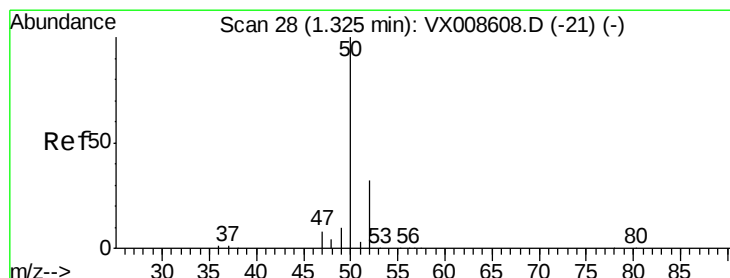
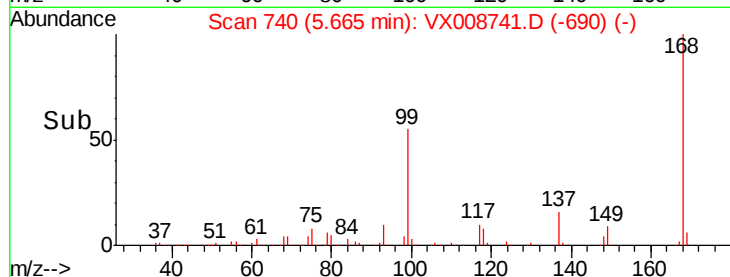
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008741.D

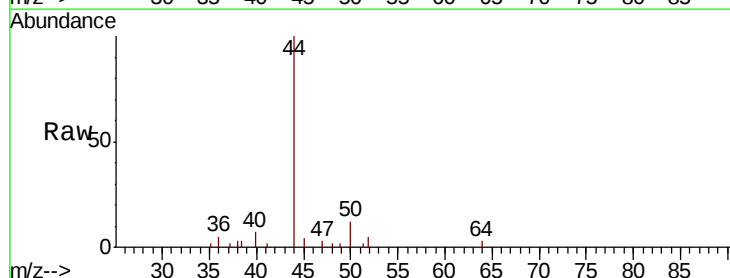
Acq: 08 Apr 2019 13:40

Tgt Ion: 50 Resp: 447

Ion Ratio Lower Upper

50 100

52 42.3 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

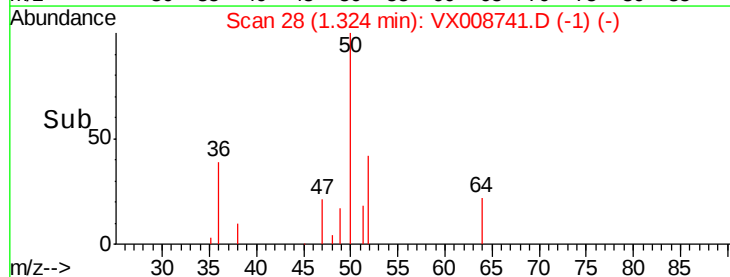
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.210 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

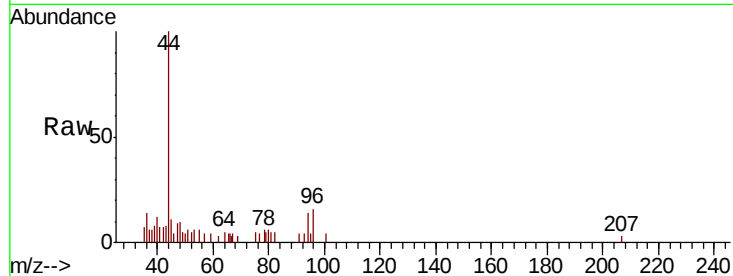
ST008MW305-190404

Tot Ion: 94 Resp: 501

Ion Ratio Lower Upper

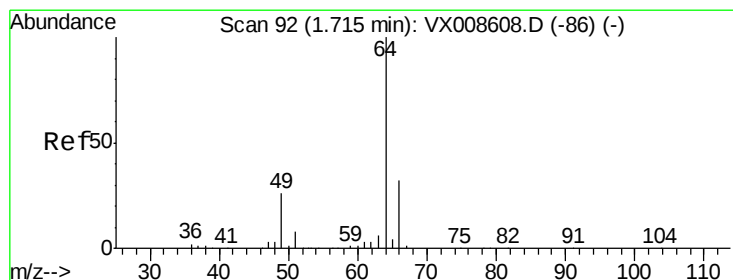
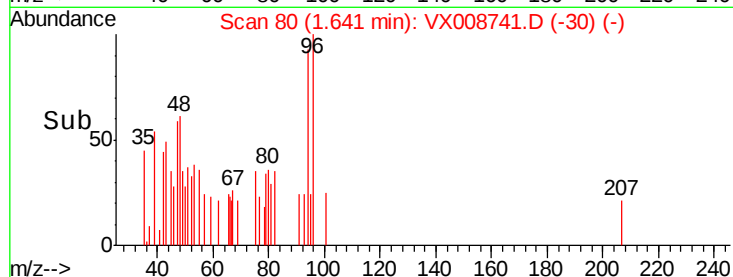
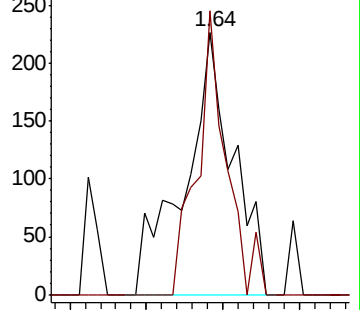
94 100

96 107.9 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008741.D

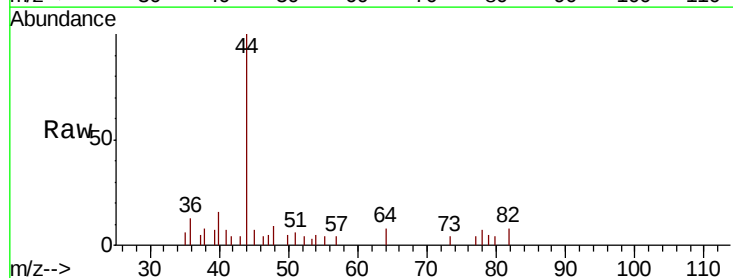
Acq: 08 Apr 2019 13:40

Tgt Ion: 64 Resp: 219

Ion Ratio Lower Upper

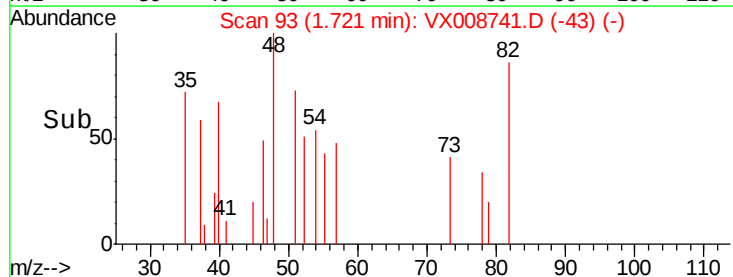
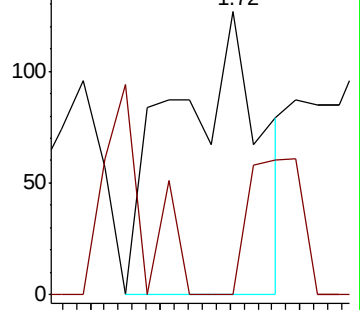
64 100

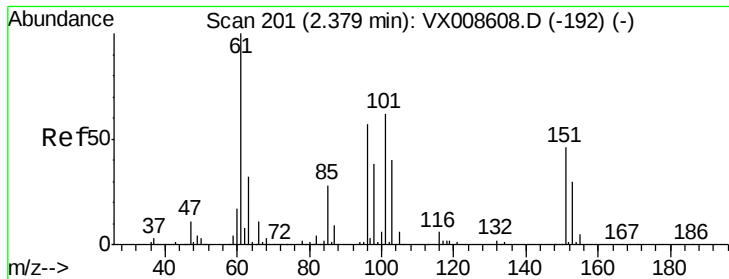
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.380 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

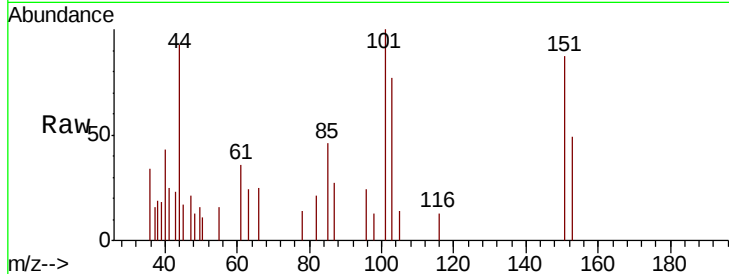
Tot Ion:101 Resp: 815

Ion Ratio Lower Upper

101 100

85 54.4 36.0 54.0#

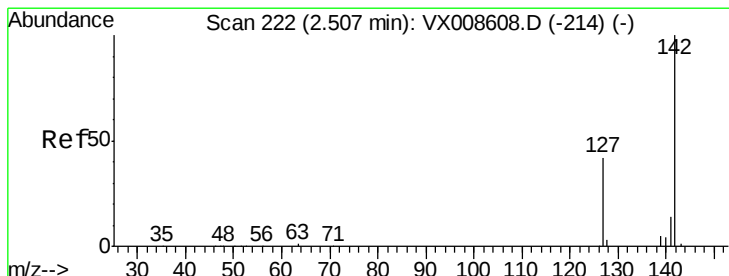
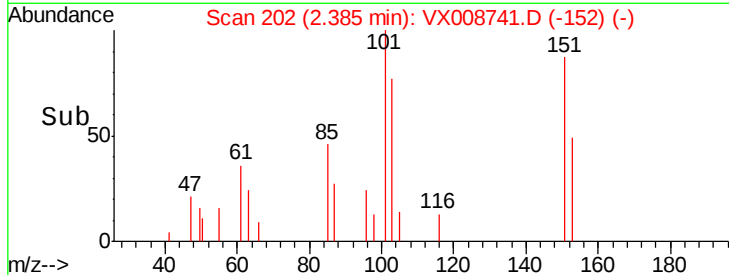
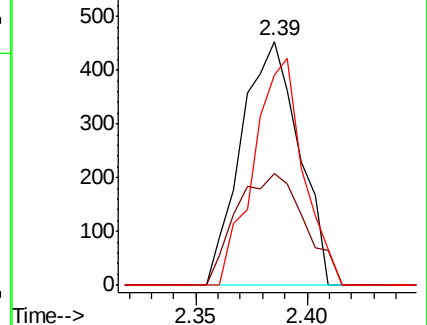
151 80.9 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.142 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

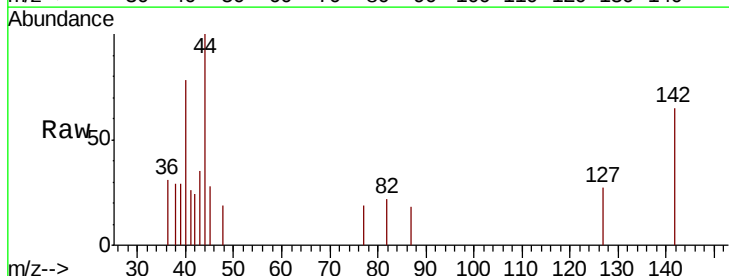
Tgt Ion:142 Resp: 296

Ion Ratio Lower Upper

142 100

127 38.5 33.0 49.6

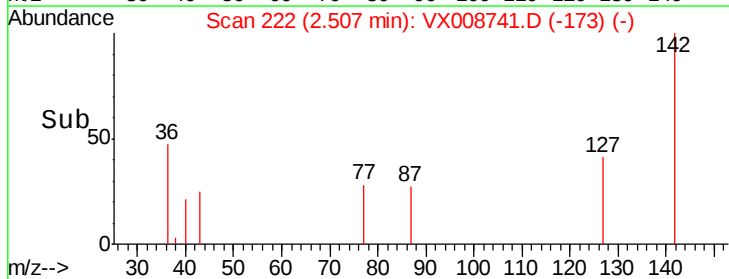
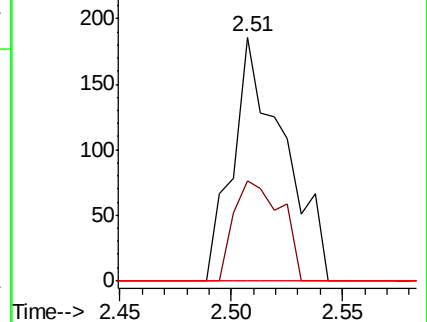
141 0.0 11.4 17.2#

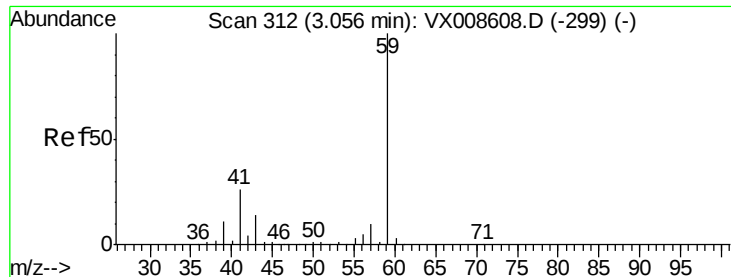


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

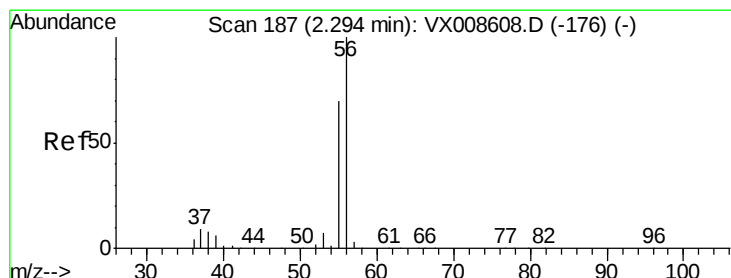
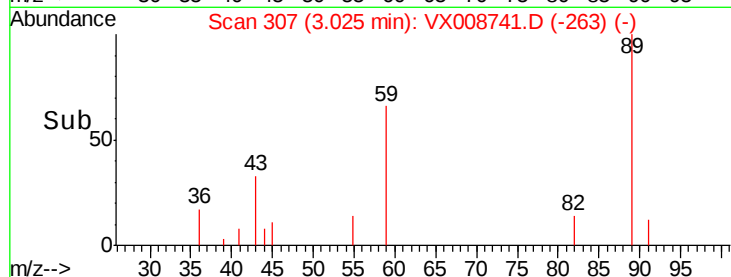
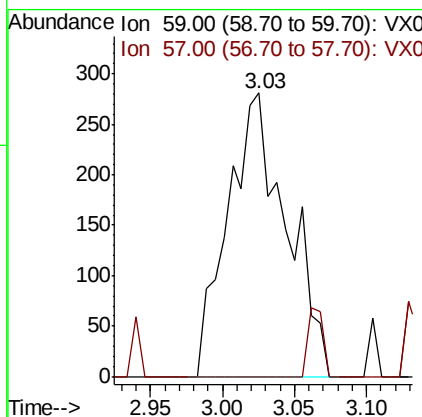
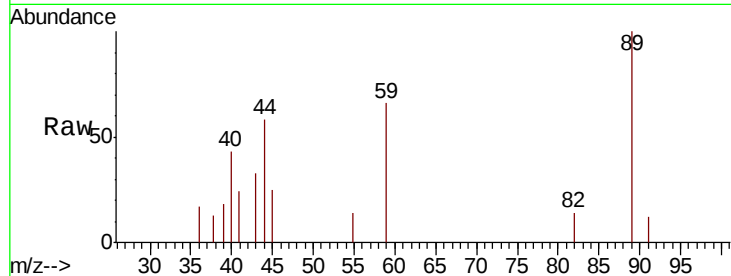




#11
Tert butyl alcohol
Concen: 1.204 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.03 min
Lab File: VX008741.D
Acq: 08 Apr 2019 13:40

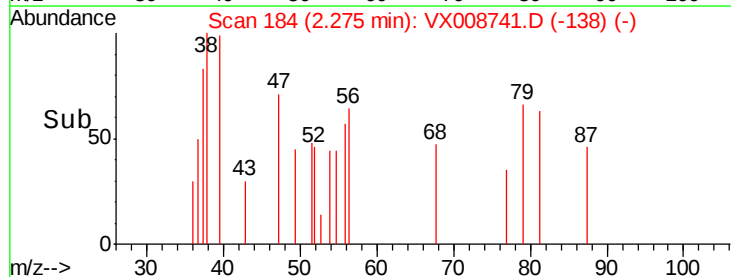
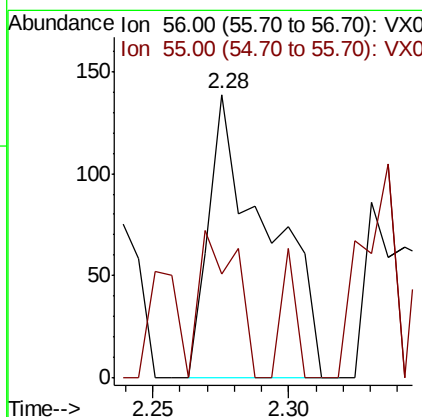
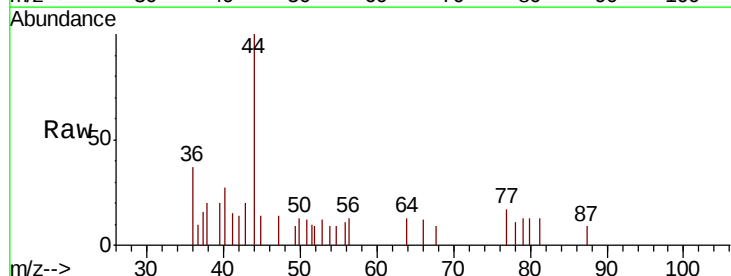
Instrument :
MSVOA_X
ClientSampleId :
ST008MW305-190404

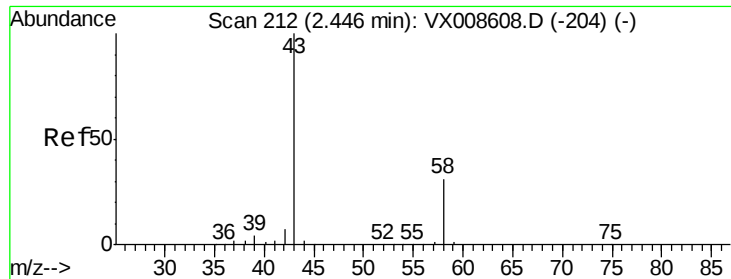
Tot Ion: 59 Resp: 797
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.631 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.02 min
Lab File: VX008741.D
Acq: 08 Apr 2019 13:40

Tgt Ion: 56 Resp: 207
Ion Ratio Lower Upper
56 100
55 32.9 58.0 87.0#





#16

Acetone

Concen: 0.621 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

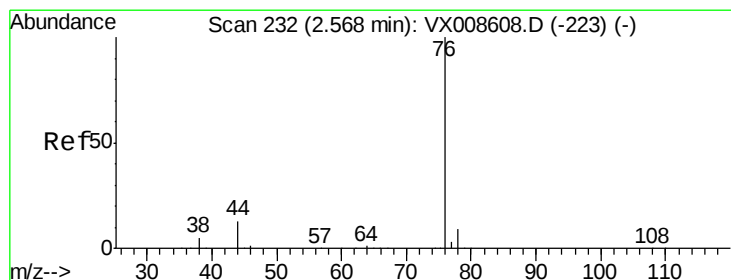
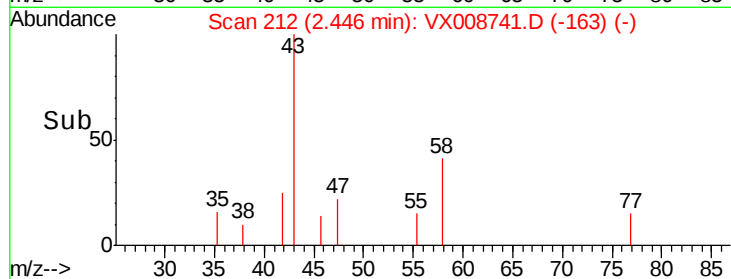
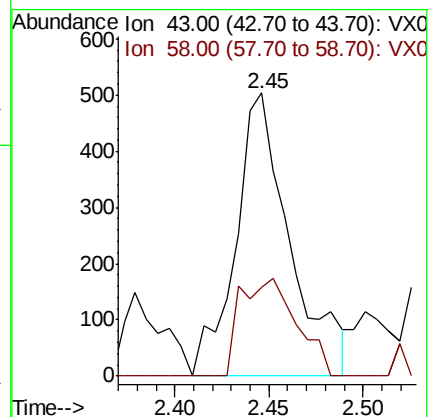
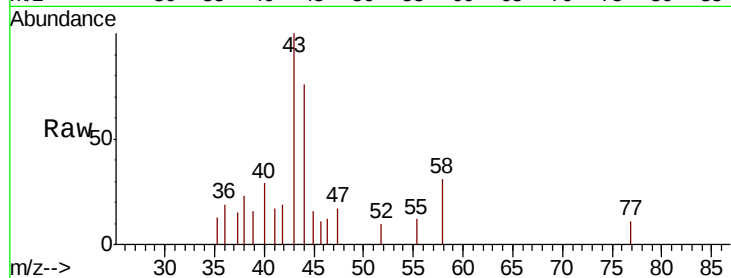
ST008MW305-190404

Tot Ion: 43 Resp: 1012

Ion Ratio Lower Upper

43 100

58 31.4 24.8 37.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008741.D

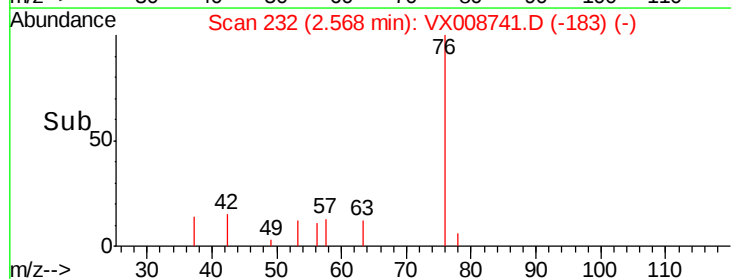
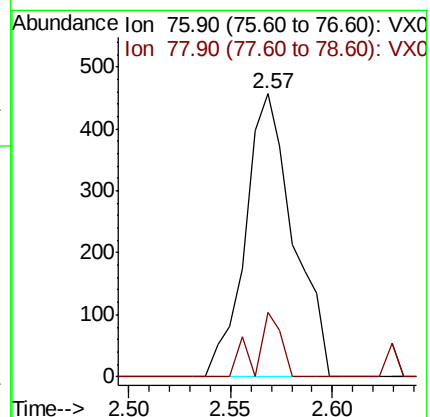
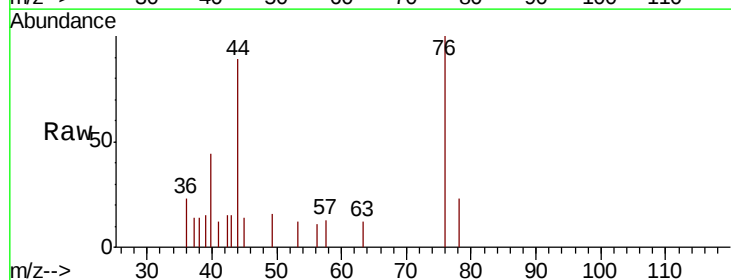
Acq: 08 Apr 2019 13:40

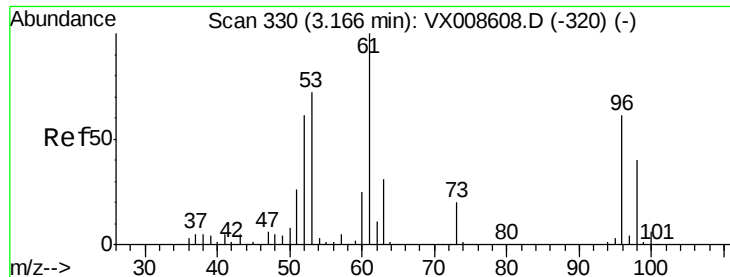
Tgt Ion: 76 Resp: 751

Ion Ratio Lower Upper

76 100

78 22.8 7.1 10.7#

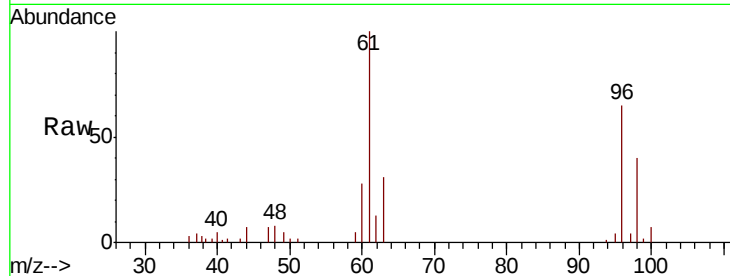




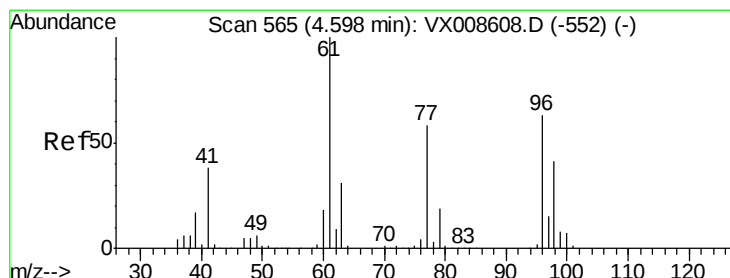
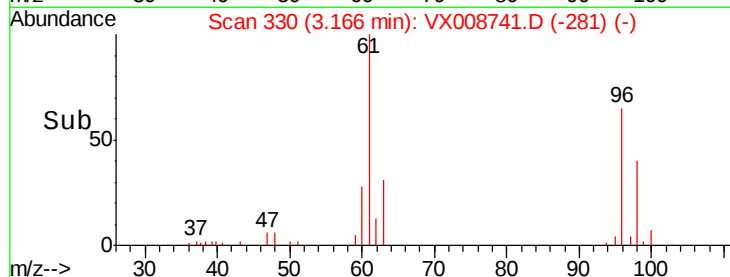
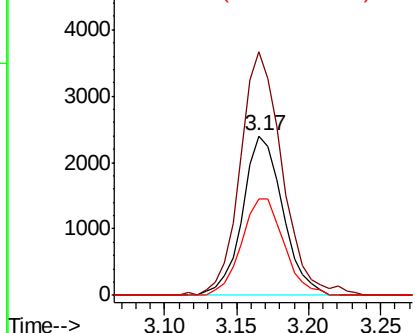
#21
trans-1,2-Dichloroethene
Concen: 1.911 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX008741.D
Acq: 08 Apr 2019 13:40

Instrument :
MSVOA_X
ClientSampleId :
ST008MW305-190404

Tot Ion: 96 Resp: 4631
Ion Ratio Lower Upper
96 100
61 150.5 132.1 198.1
98 60.8 52.2 78.2

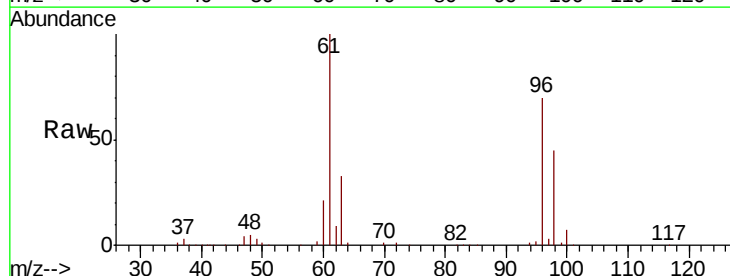


Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

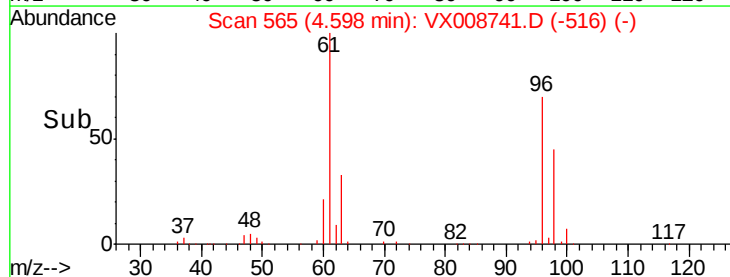
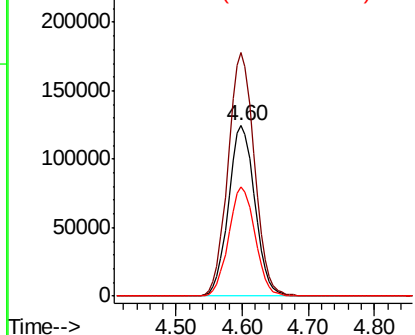


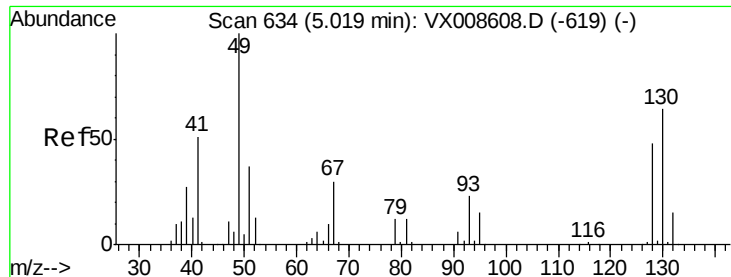
#27
cis-1,2-Dichloroethene
Concen: 123.986 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008741.D
Acq: 08 Apr 2019 13:40

Tgt Ion: 96 Resp: 345518
Ion Ratio Lower Upper
96 100
61 142.4 0.0 327.6
98 64.2 0.0 128.6



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: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

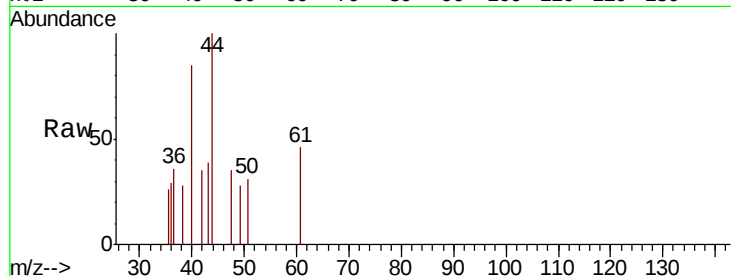
Tot Ion: 49 Resp: 78

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

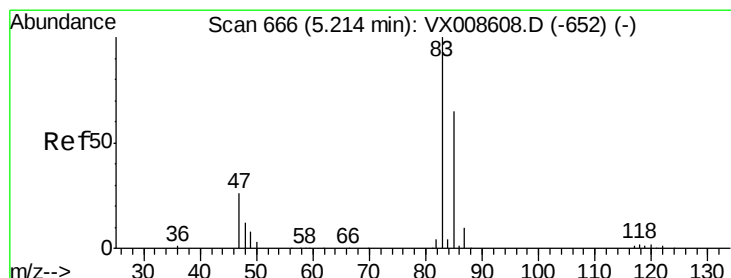
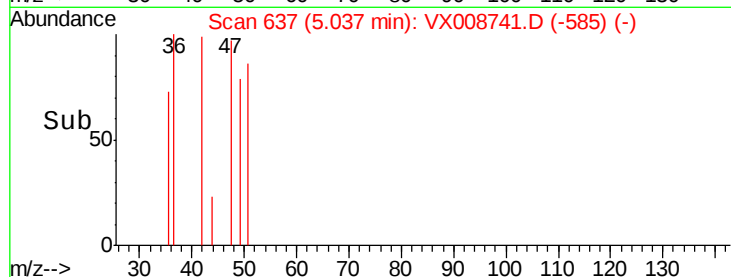
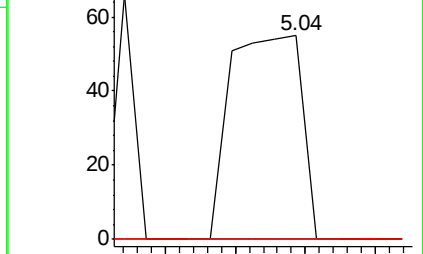
130 0.0 49.3 73.9#



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: 0.213 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX008741.D

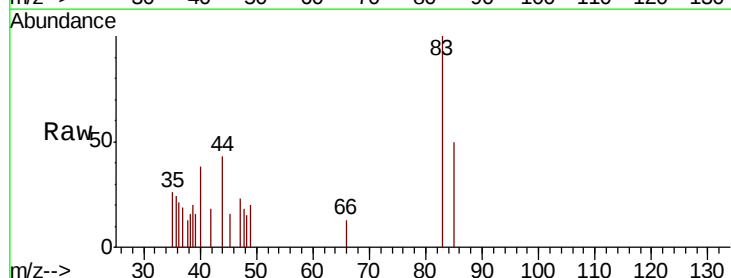
Acq: 08 Apr 2019 13:40

Tgt Ion: 83 Resp: 931

Ion Ratio Lower Upper

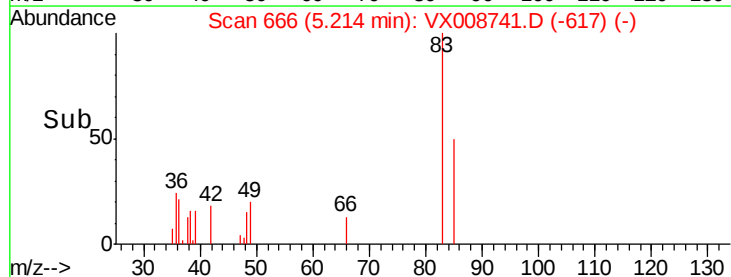
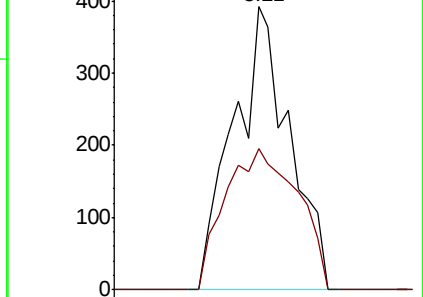
83 100

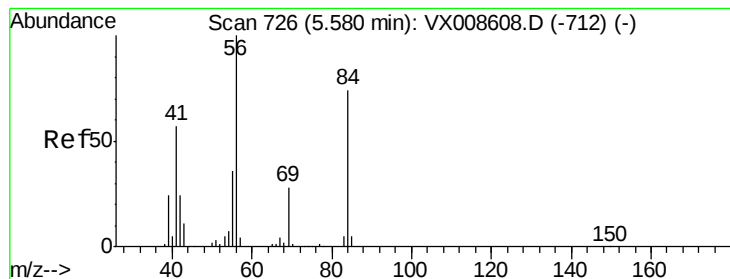
85 49.7 52.1 78.1#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 0.870 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

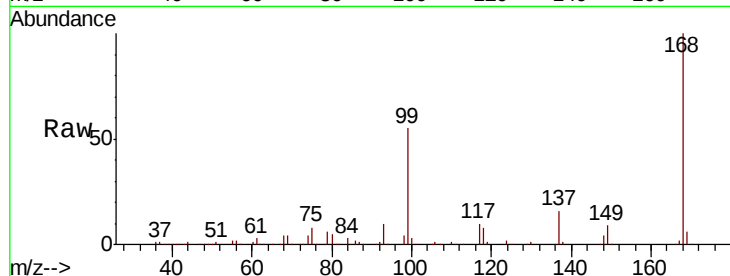
Tot Ion: 56 Resp: 4249

Ion Ratio Lower Upper

56 100

69 177.3 22.6 33.8#

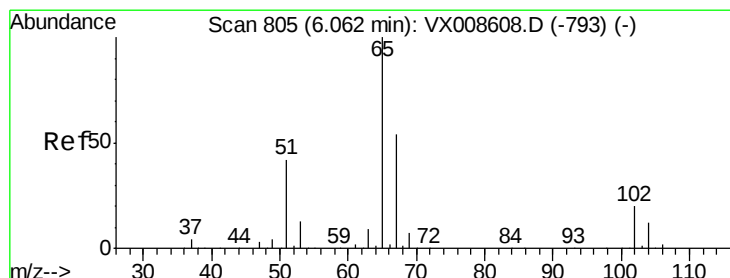
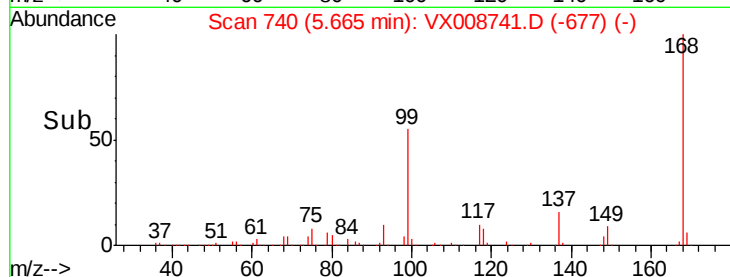
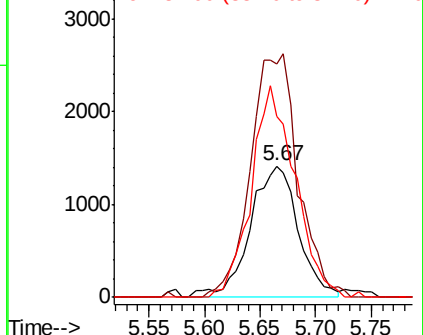
84 138.0 59.3 88.9#



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: 47.343 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX008741.D

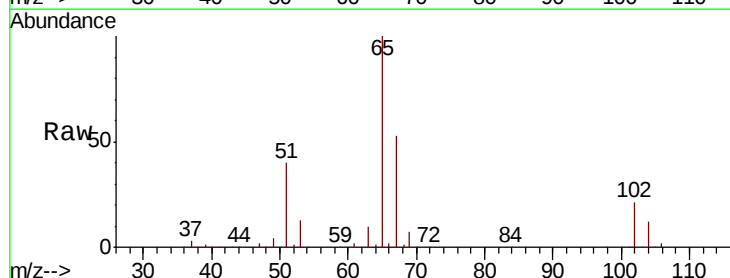
Acq: 08 Apr 2019 13:40

Tgt Ion: 65 Resp: 133845

Ion Ratio Lower Upper

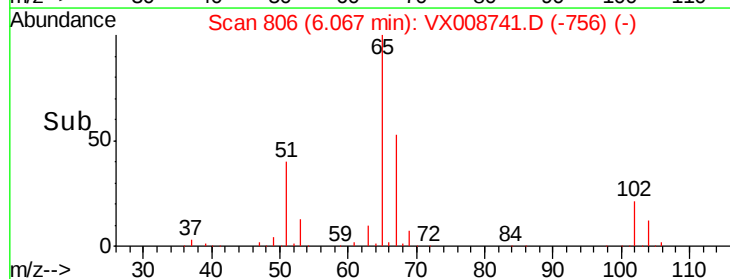
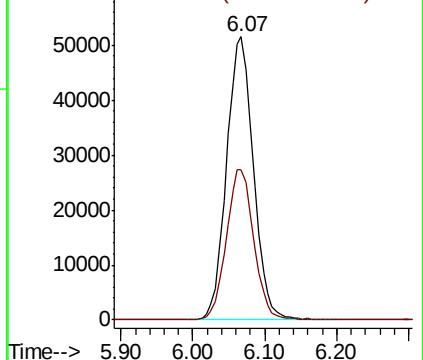
65 100

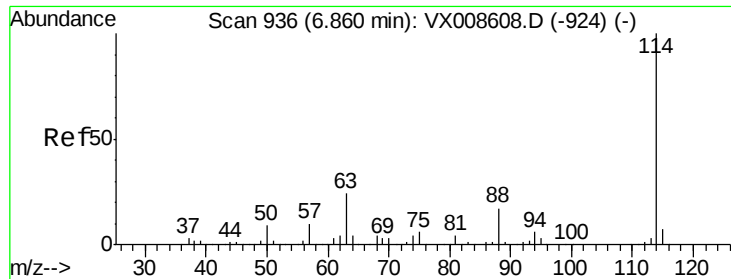
67 54.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

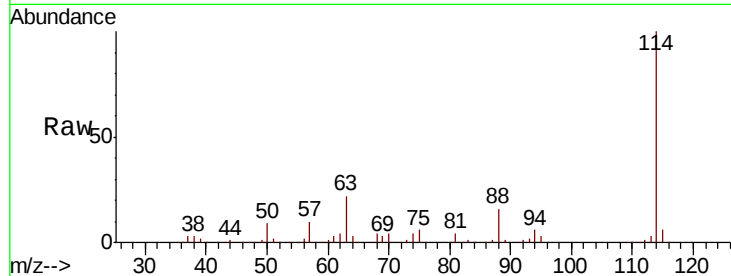




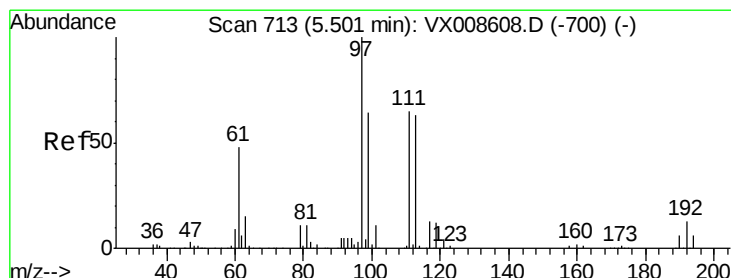
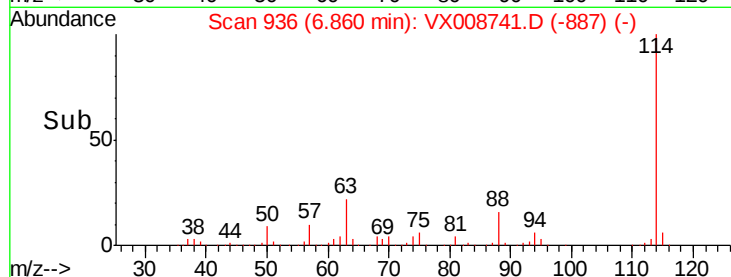
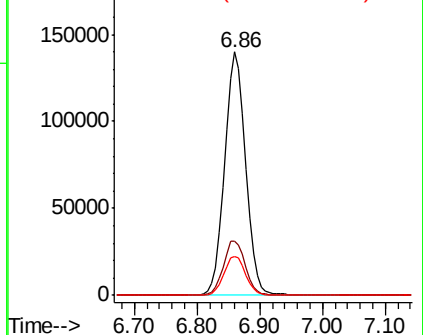
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008741.D
 Acq: 08 Apr 2019 13:40

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW305-190404

Tot Ion:114 Resp: 324998
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 47.2
 88 16.2 0.0 34.0

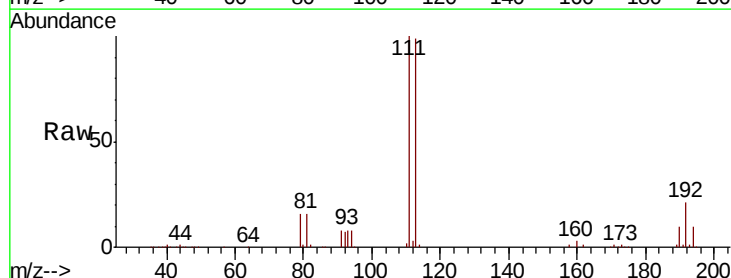


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

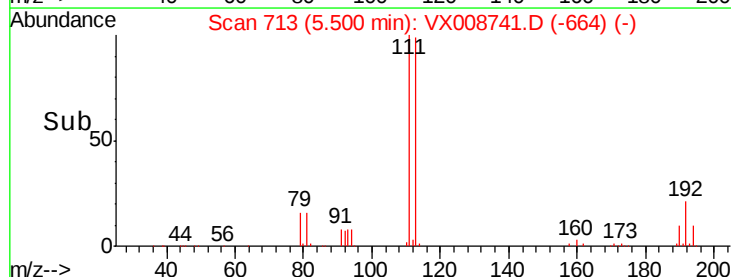
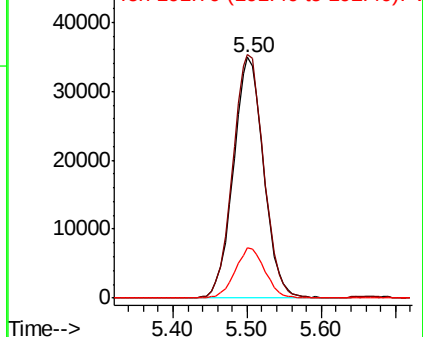


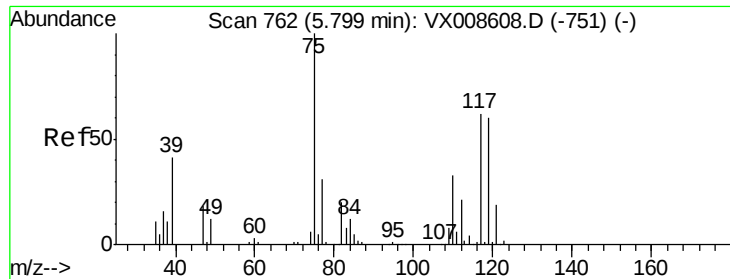
#35
 Dibromofluoromethane
 Concen: 47.847 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008741.D
 Acq: 08 Apr 2019 13:40

Tgt Ion:113 Resp: 99421
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.4 125.2
 192 20.5 16.1 24.1



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





#36

1,1-Dichloropropene

Concen: 4.410 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

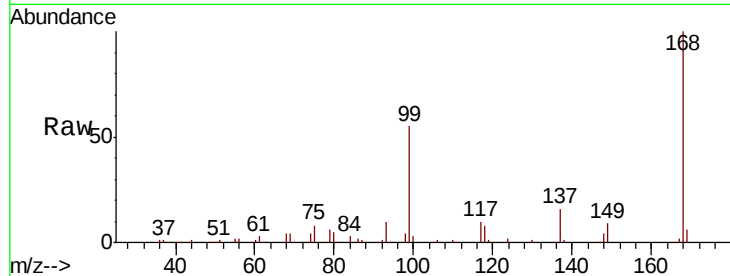
Tot Ion: 75 Resp: 15667

Ion Ratio Lower Upper

75 100

110 8.8 16.4 49.2#

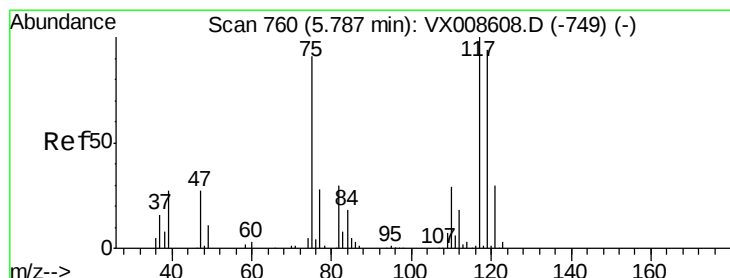
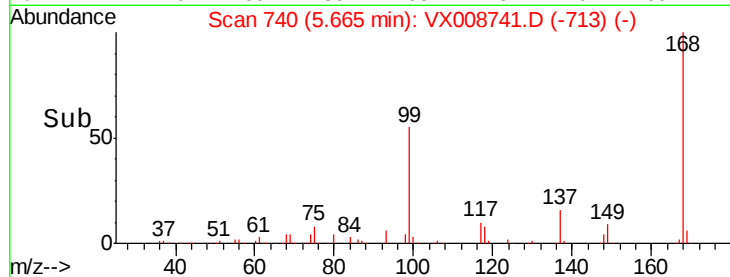
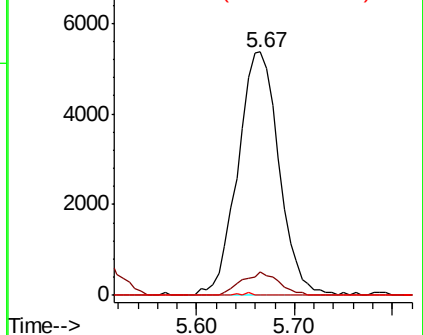
77 0.2 24.7 37.1#



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: 6.294 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

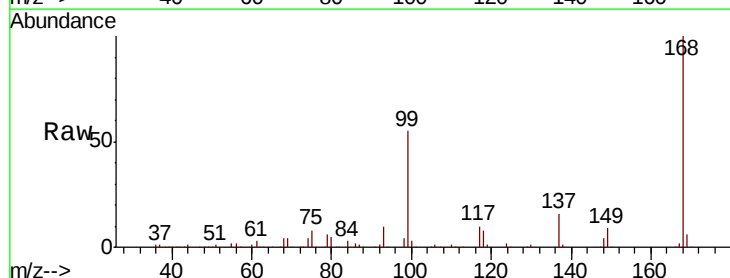
Tgt Ion: 117 Resp: 18505

Ion Ratio Lower Upper

117 100

119 6.6 75.0 112.6#

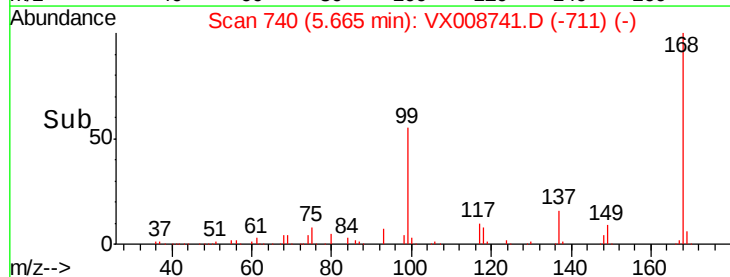
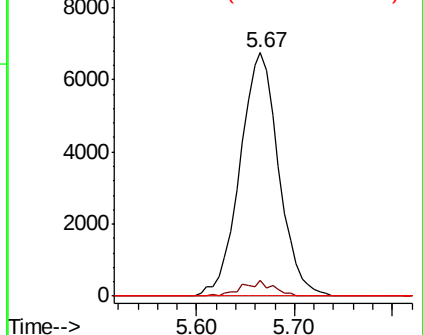
121 0.0 24.3 36.5#

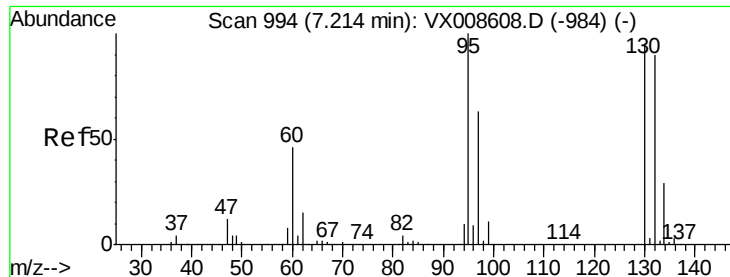


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 14.504 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

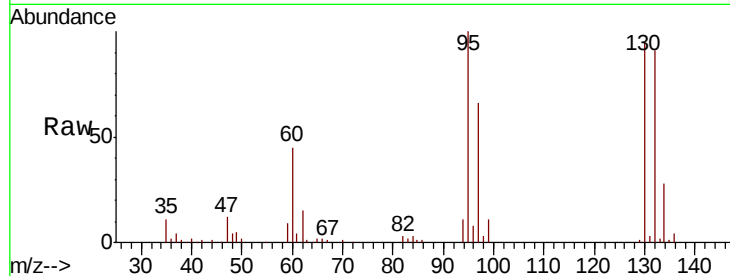
ST008MW305-190404

Tot Ion:130 Resp: 35752

Ion Ratio Lower Upper

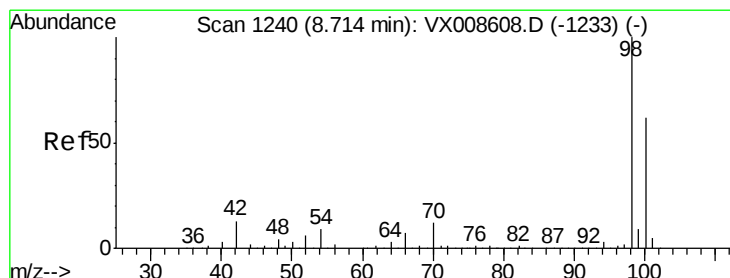
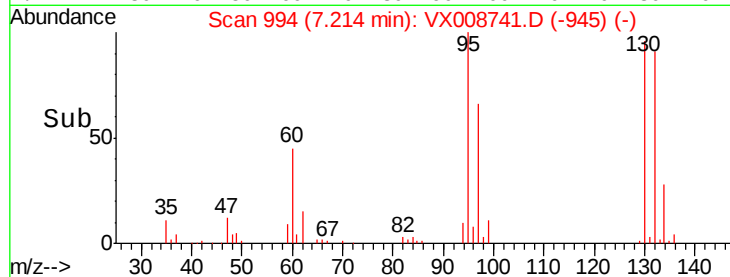
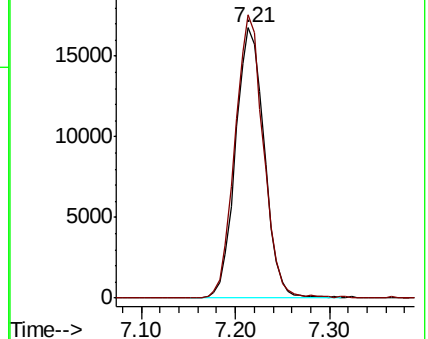
130 100

95 104.8 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.526 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008741.D

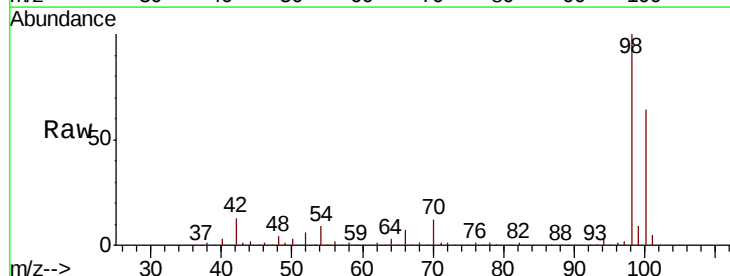
Acq: 08 Apr 2019 13:40

Tgt Ion: 98 Resp: 401486

Ion Ratio Lower Upper

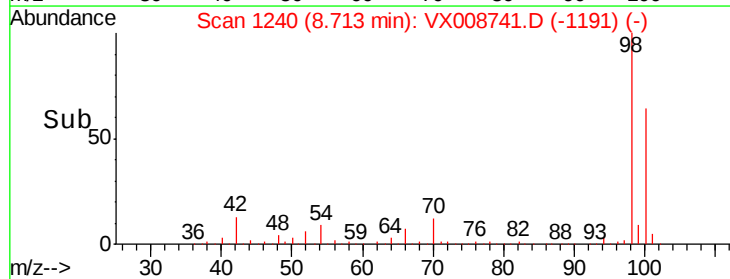
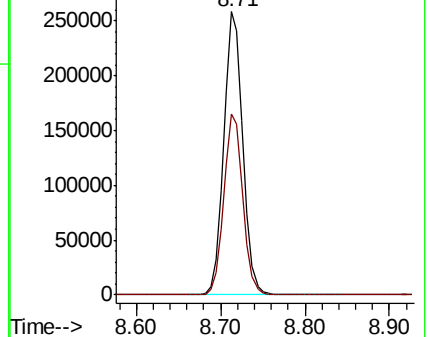
98 100

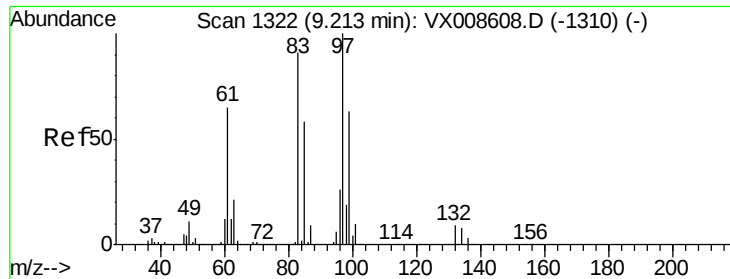
100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#55

1,1,2-Trichloroethane

Concen: 1.831 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

Tot Ion: 97 Resp: 4585

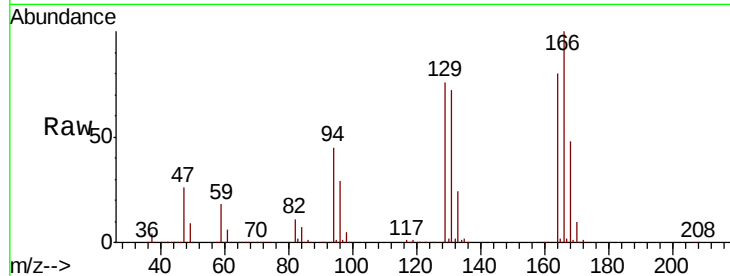
Ion Ratio Lower Upper

97 100

83 312.3 73.2 109.8#

85 40.2 46.6 69.8#

99 17.2 50.1 75.1#



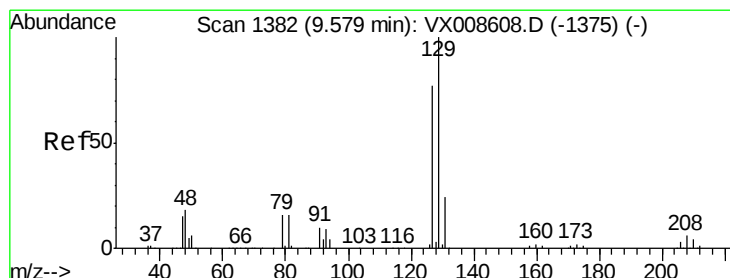
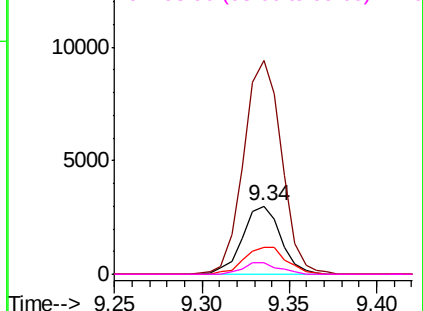
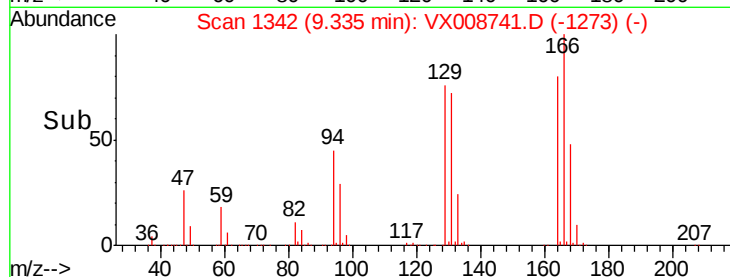
Abundance

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: 221.614 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008741.D

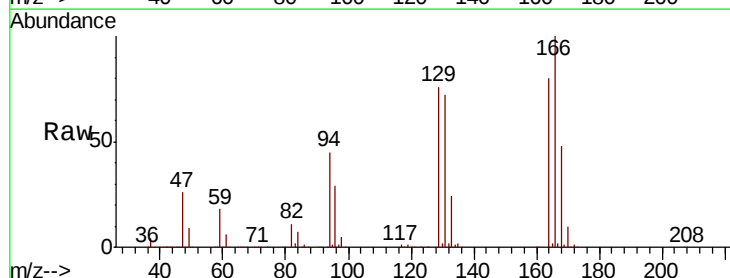
Acq: 08 Apr 2019 13:40

Tgt Ion: 129 Resp: 523036

Ion Ratio Lower Upper

129 100

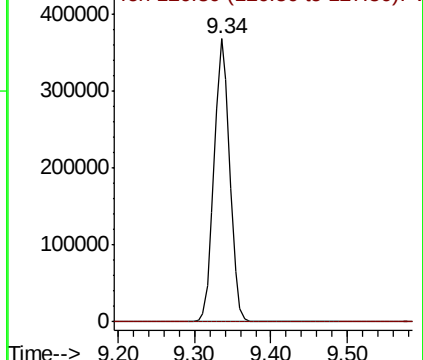
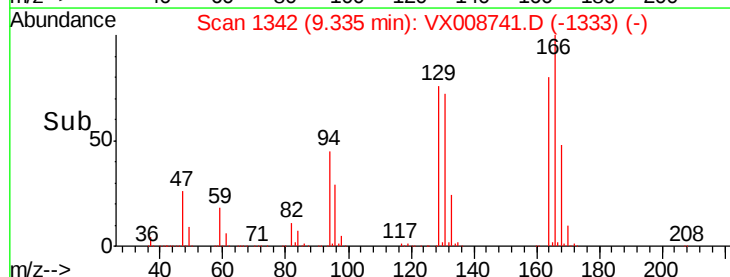
127 0.0 38.5 115.3#

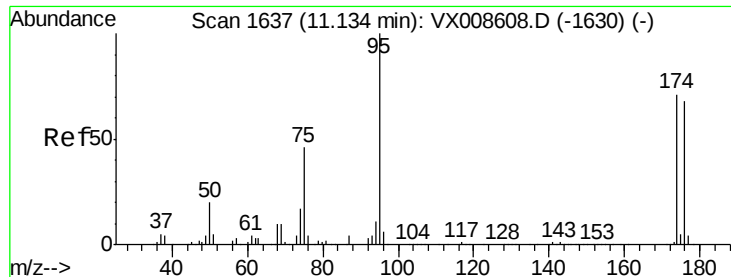


Abundance

Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 44.875 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

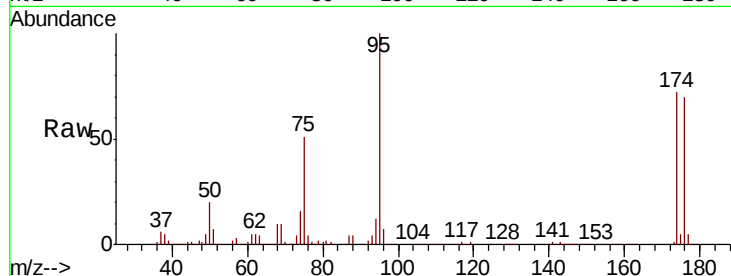
Tot Ion: 95 Resp: 131662

Ion Ratio Lower Upper

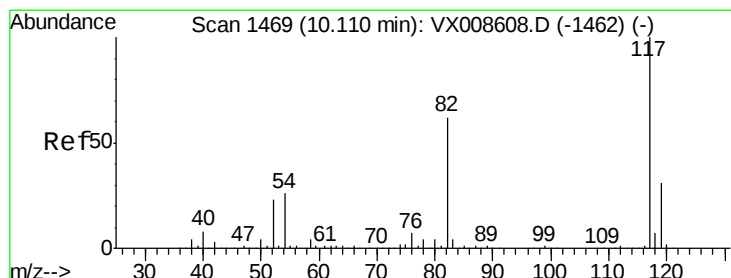
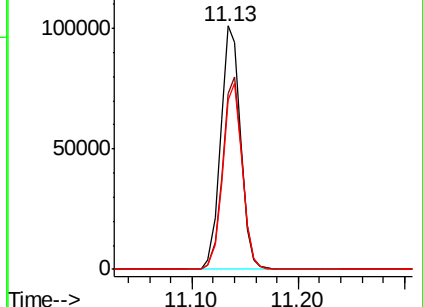
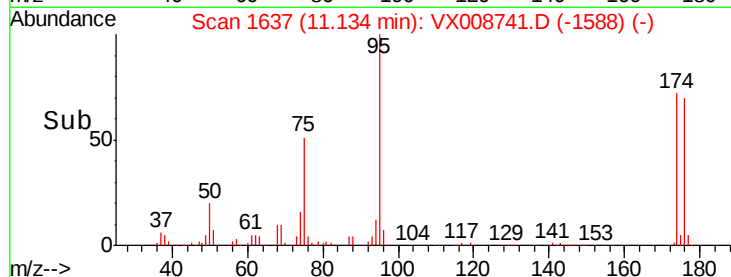
95 100

174 77.8 0.0 151.8

176 75.2 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008741.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

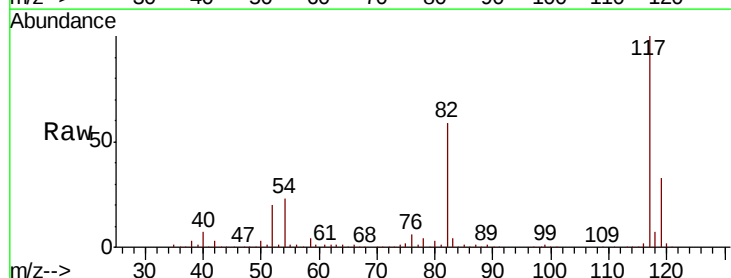
Tgt Ion: 117 Resp: 275678

Ion Ratio Lower Upper

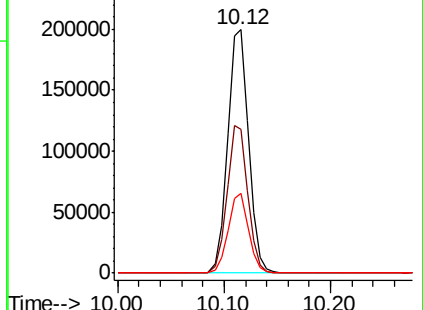
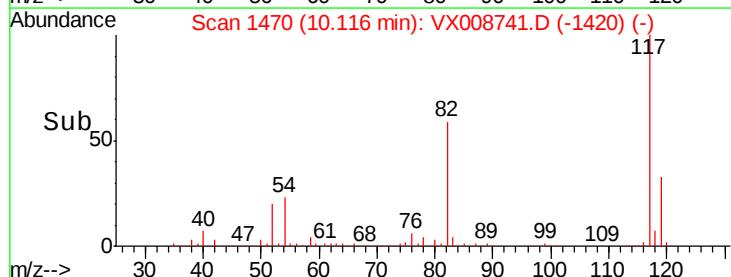
117 100

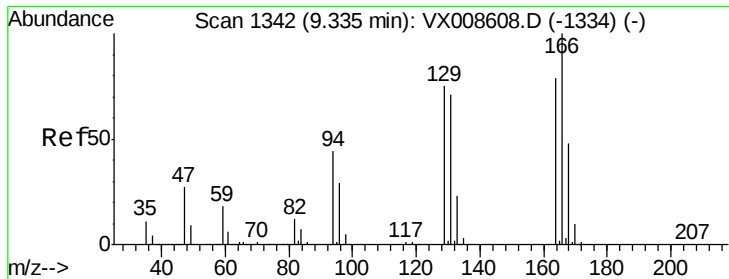
82 58.9 49.6 74.4

119 32.7 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): VX008741.D (-1420) (-)





#64

Tetrachloroethene

Concen: 272.142 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

ST008MW305-190404

Tot Ion:164 Resp: 555845

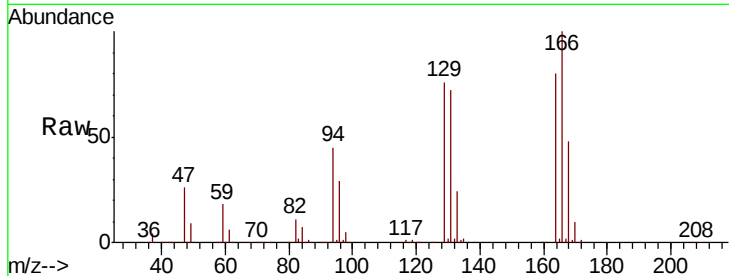
Ion Ratio Lower Upper

164 100

166 125.8 101.0 151.6

129 95.6 75.8 113.8

131 91.1 71.8 107.8

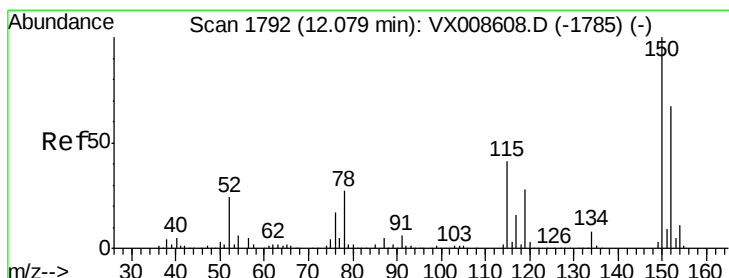
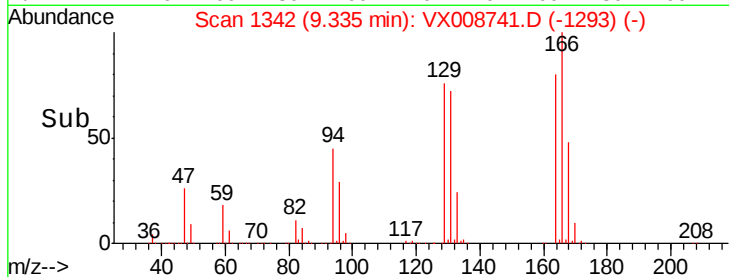
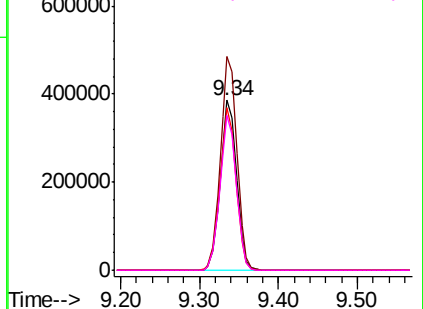


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX008741.D

Acq: 08 Apr 2019 13:40

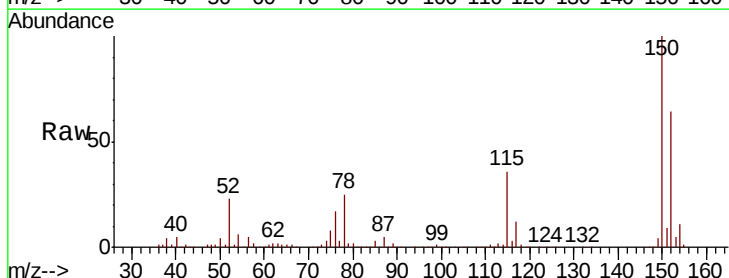
Tgt Ion:152 Resp: 114698

Ion Ratio Lower Upper

152 100

115 58.9 43.5 130.5

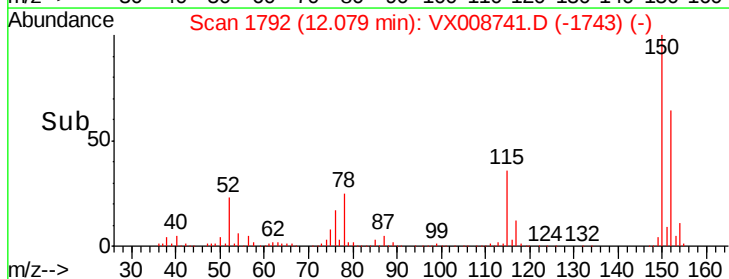
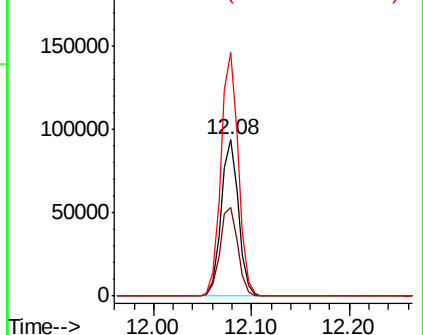
150 157.0 0.0 348.8

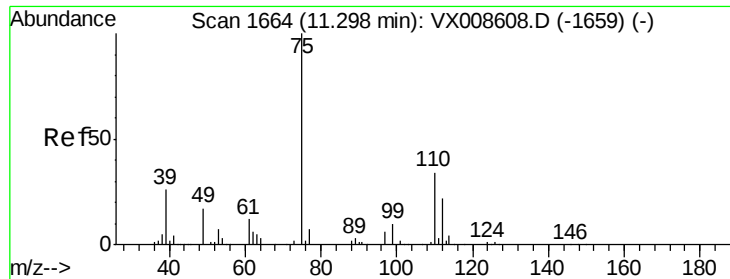


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.200 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

Instrument :

MSVOA_X

ClientSampleId :

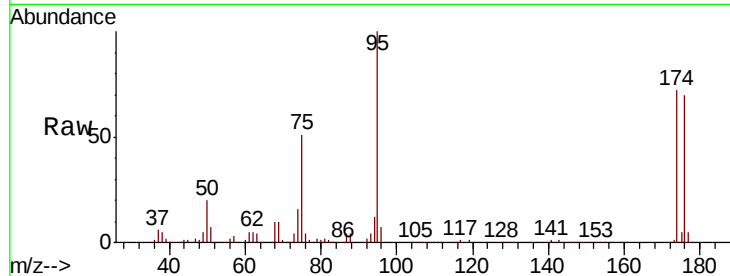
ST008MW305-190404

Tot Ion: 75 Resp: 66797

Ion Ratio Lower Upper

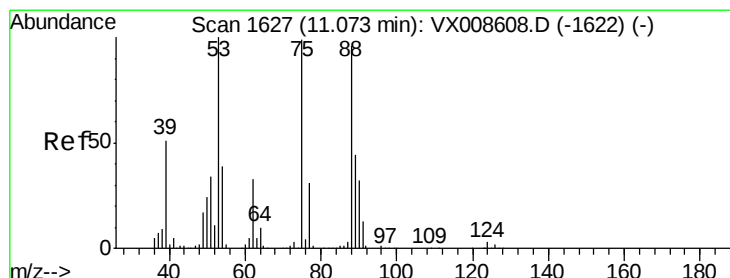
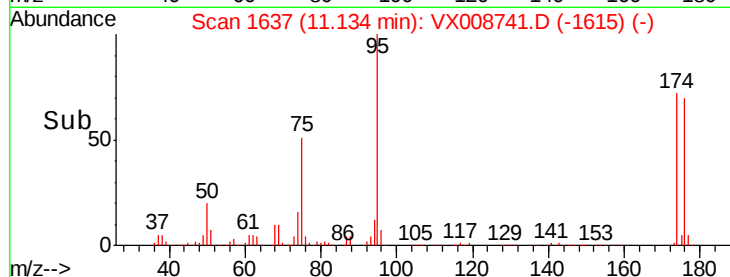
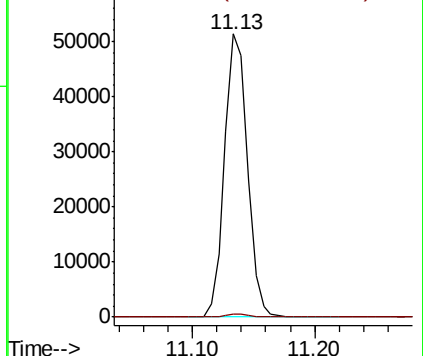
75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 58.438 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008741.D

Acq: 08 Apr 2019 13:40

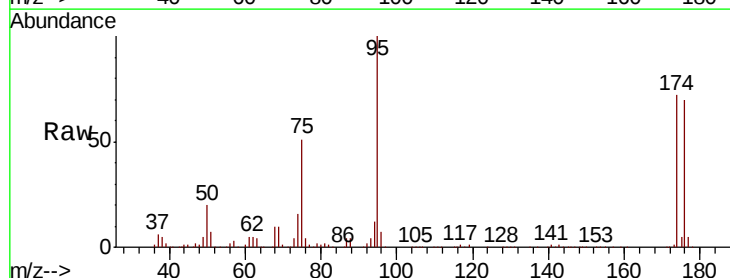
Tgt Ion: 75 Resp: 66797

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

