

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121319\
 Data File : VX014019.D
 Acq On : 13 Dec 2019 21:18
 Operator : JC/SP
 Sample : K6182-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

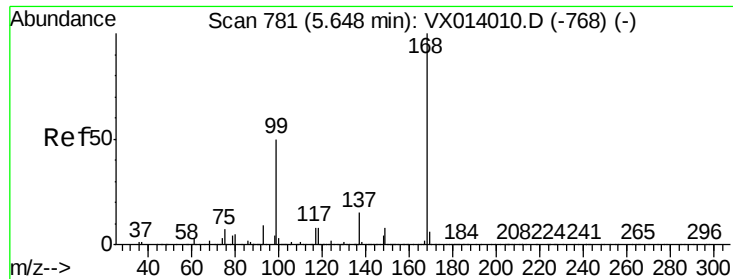
Quant Time: Dec 14 01:27:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 17:10:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	587244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	902309	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	802799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	335440	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	327364	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
35) Dibromofluoromethane	5.48	113	264322	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
50) Toluene-d8	8.71	98	1058735	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	11.14	95	353187	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	3915	0.741	ug/l #	64
6) Chloroethane	1.70	64	1375	0.299	ug/l #	57
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1334	0.240	ug/l #	20
10) Methyl Iodide	2.50	142	753	2.718	ug/l #	69
11) Tert butyl alcohol	3.01	59	1555	1.081	ug/l #	34
13) Acrolein	2.28	56	318	0.386	ug/l #	65
16) Acetone	2.44	43	7131	1.650	ug/l #	81
17) Carbon Disulfide	2.56	76	3591	0.976	ug/l	98
20) Methylene Chloride	2.85	84	2825	0.415	ug/l #	63
25) 2-Butanone	4.68	43	1786	0.335	ug/l #	40
28) Bromochloromethane	5.03	49	130	0.484	ug/l #	11
29) Tetrahydrofuran	5.29	42	1211	0.406	ug/l	97
36) 1,1-Dichloropropene	5.65	75	40765	4.924	ug/l #	46
38) Carbon Tetrachloride	5.65	117	52243	6.927	ug/l #	16
49) 1,4-Dioxane	7.73	88	222	1.472	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	170651	22.508	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	170651	66.142	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014019.D

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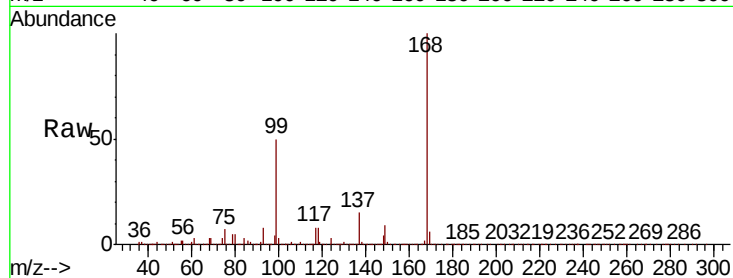
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 168 Resp: 587244

Ion Ratio Lower Upper

168 100

99 49.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

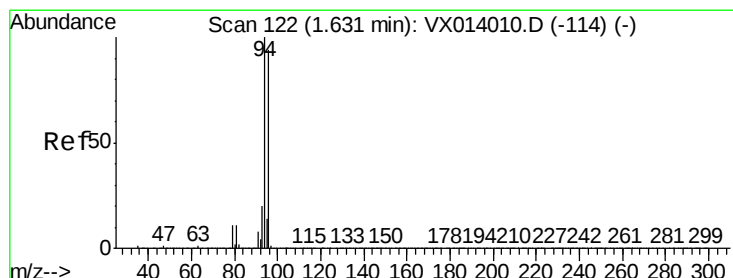
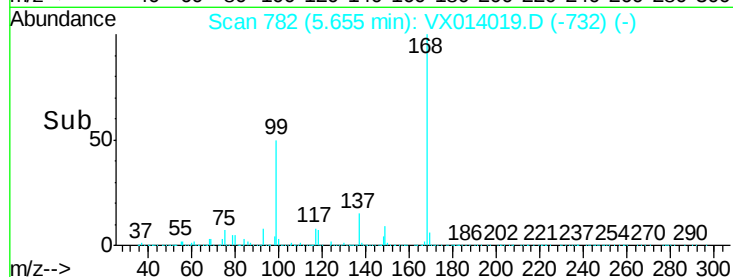
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.741 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX014019.D

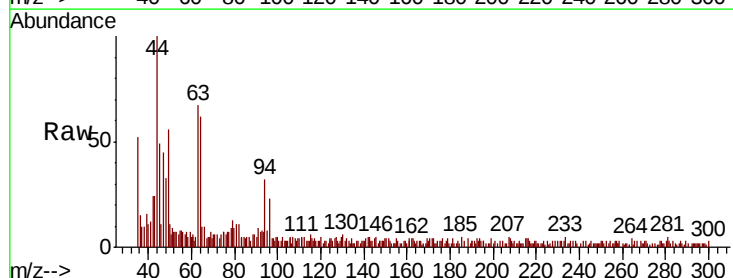
Acq: 13 Dec 2019 21:18

Tgt Ion: 94 Resp: 3915

Ion Ratio Lower Upper

94 100

96 59.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

2000

1500

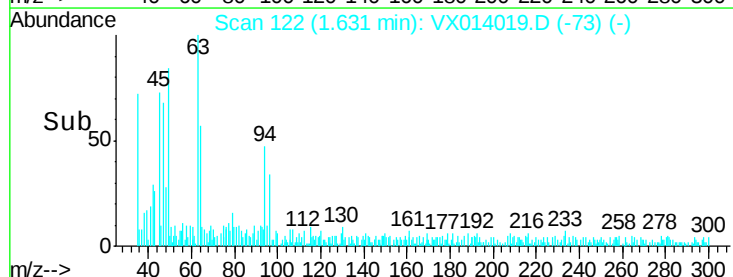
1000

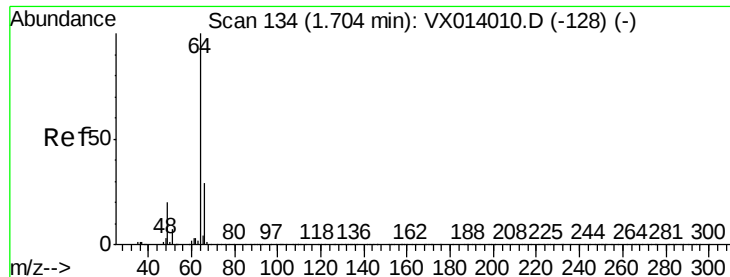
500

0

Time-->

1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.299 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

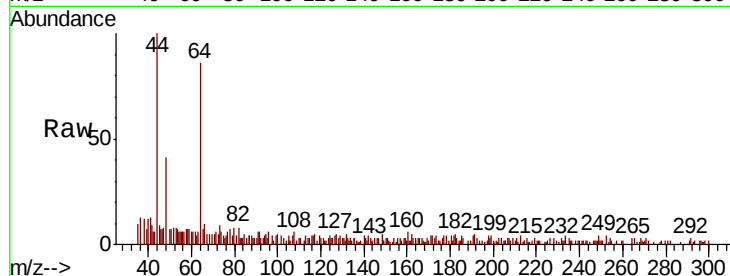
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 64 Resp: 1375

Ion Ratio Lower Upper

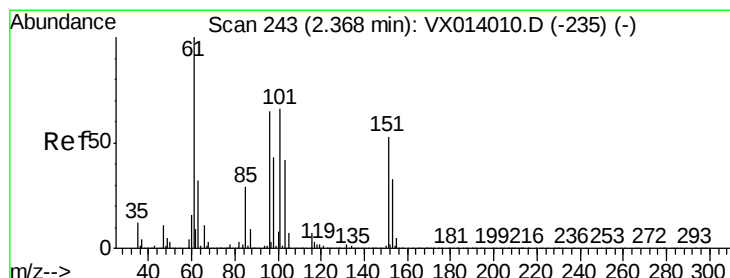
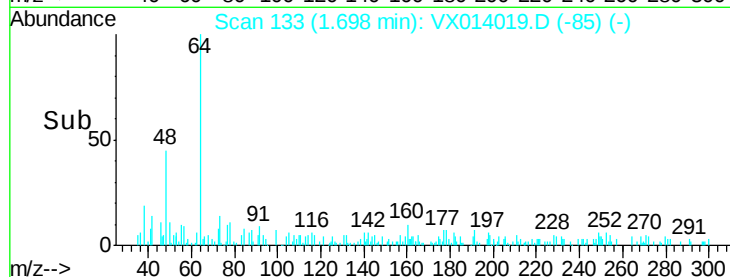
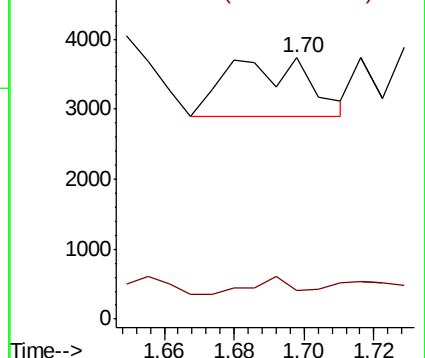
64 100

66 6.4 23.4 35.2#



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: 0.240 ug/l

RT: 2.39 min Scan# 246

Delta R.T. 0.02 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

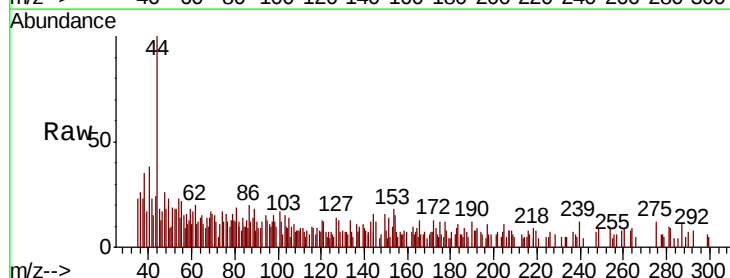
Tgt Ion: 101 Resp: 1334

Ion Ratio Lower Upper

101 100

85 4.9 33.7 50.5#

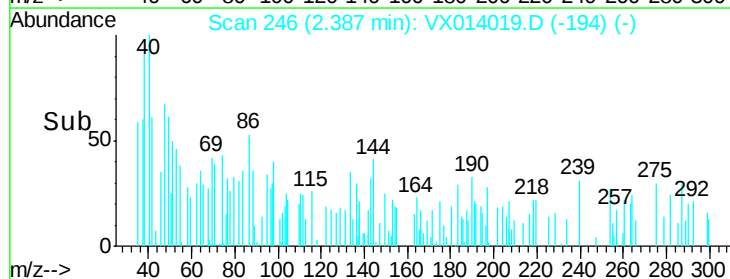
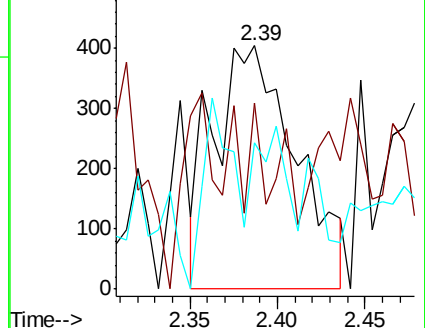
151 0.0 64.5 96.7#

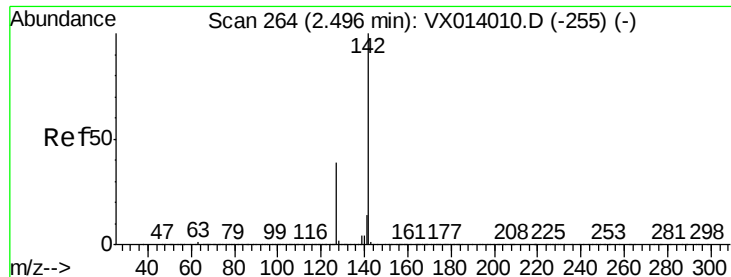


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





#10

Methyl Iodide

Concen: 2.718 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

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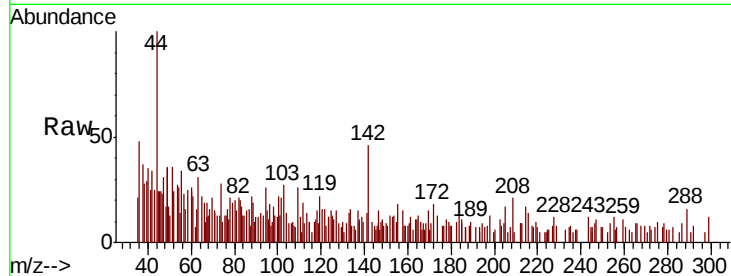
Tgt Ion:142 Resp: 753

Ion Ratio Lower Upper

142 100

127 31.5 31.6 47.4#

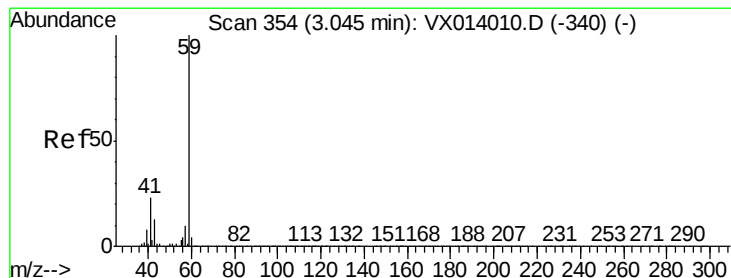
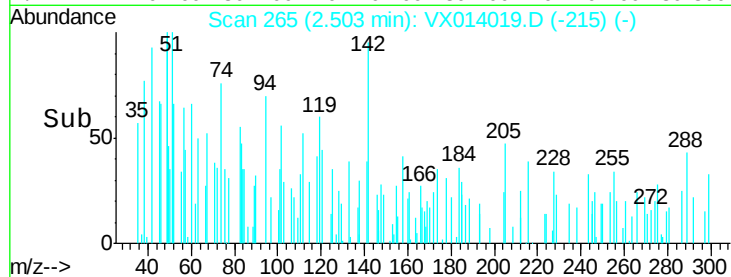
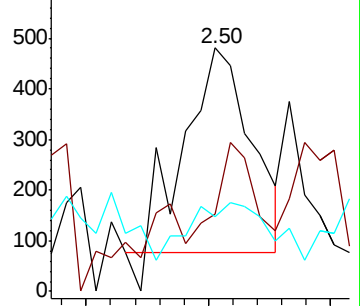
141 47.8 11.6 17.4#



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: 1.081 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.04 min

Lab File: VX014019.D

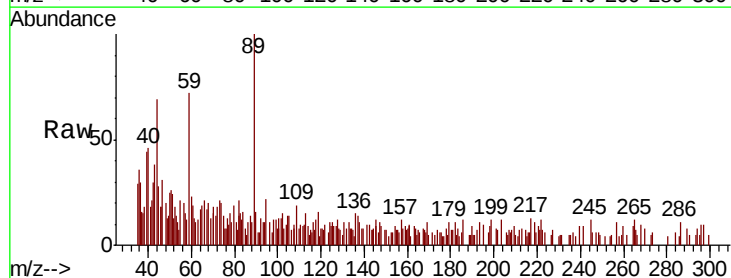
Acq: 13 Dec 2019 21:18

Tgt Ion: 59 Resp: 1555

Ion Ratio Lower Upper

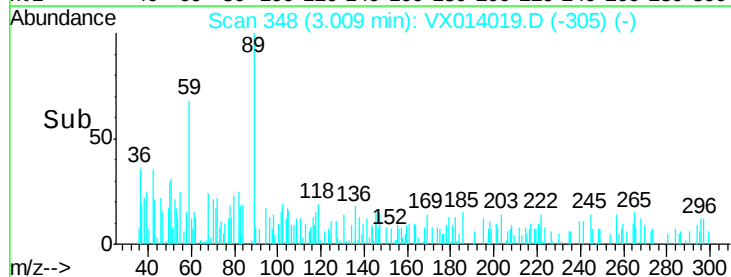
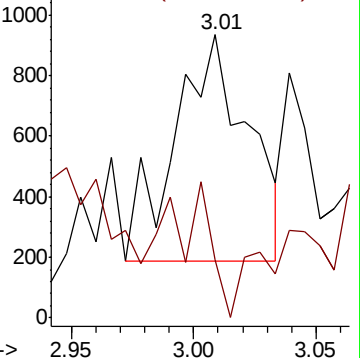
59 100

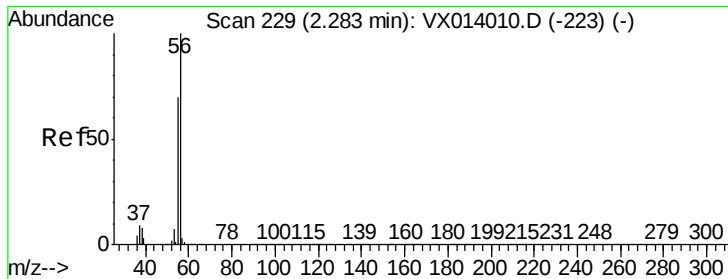
57 35.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.386 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

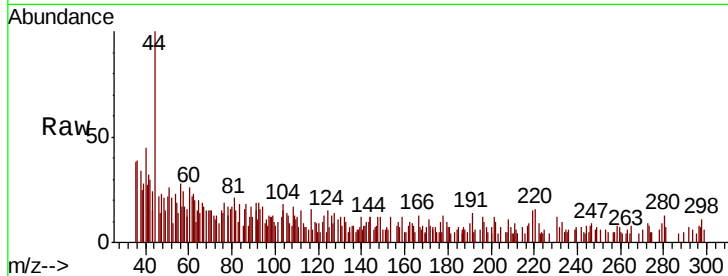
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 56 Resp: 318

Ion Ratio Lower Upper

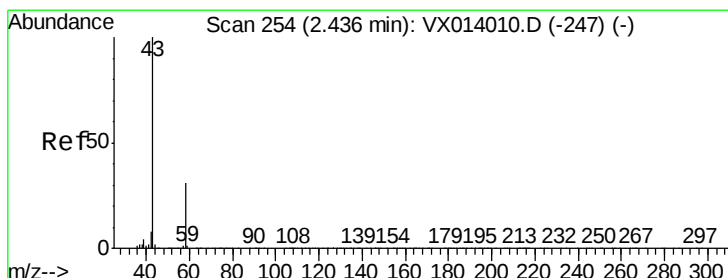
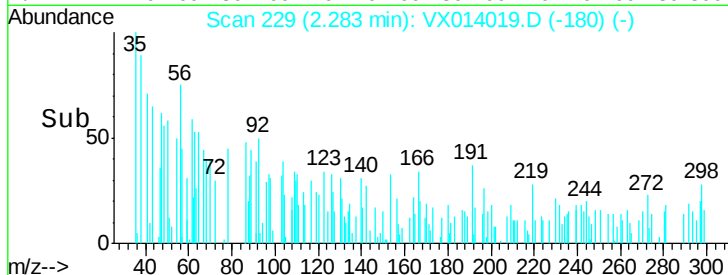
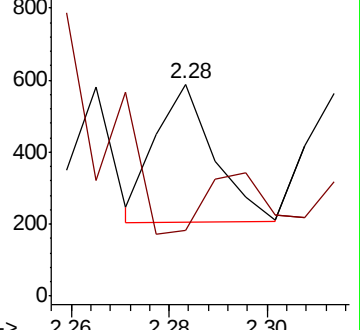
56 100

55 42.5 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.650 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014019.D

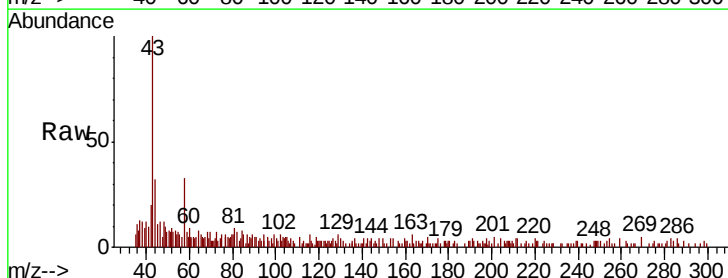
Acq: 13 Dec 2019 21:18

Tgt Ion: 43 Resp: 7131

Ion Ratio Lower Upper

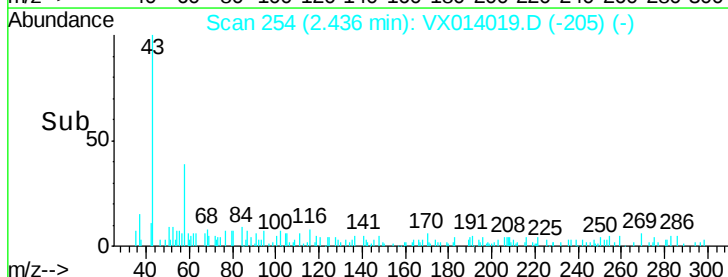
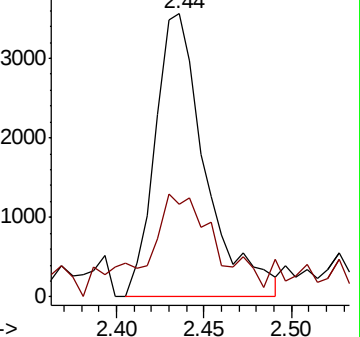
43 100

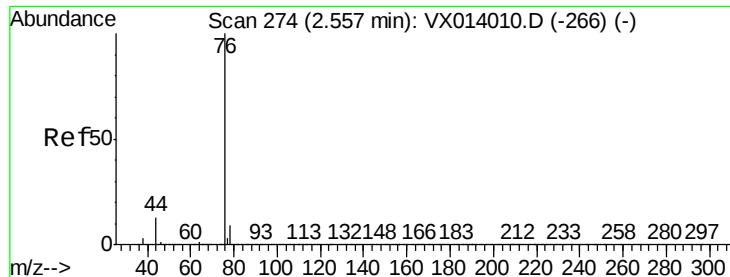
58 20.8 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

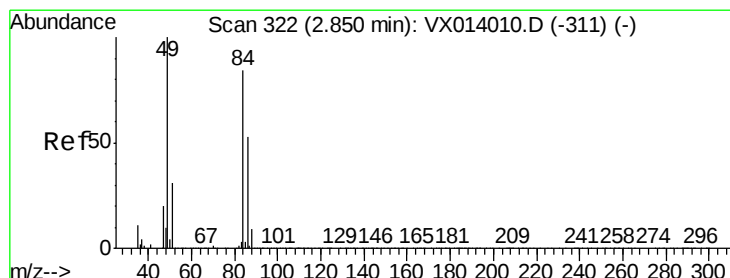
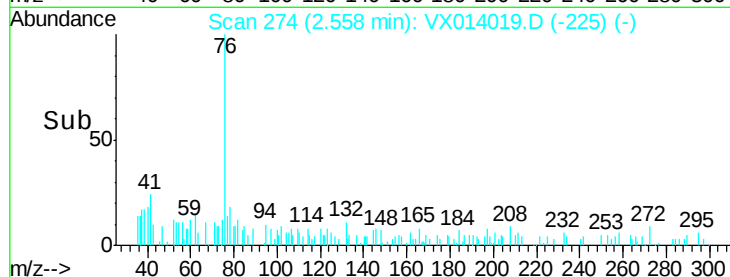
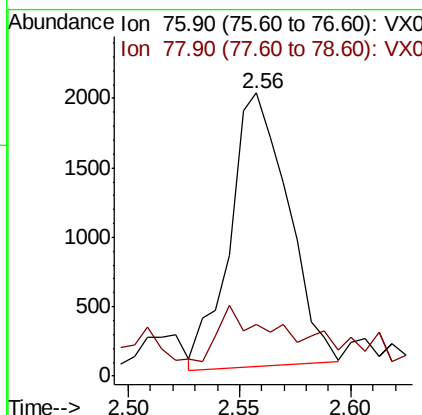
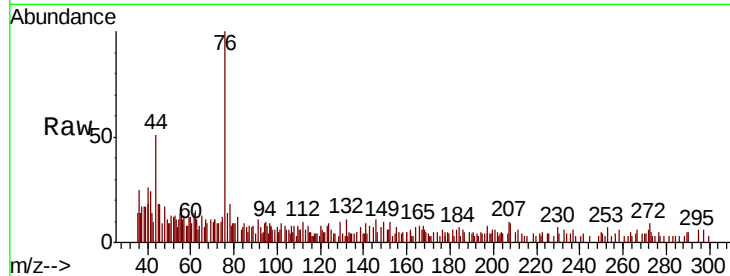




#17
Carbon Disulfide
Concen: 0.976 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX014019.D
Acq: 13 Dec 2019 21:18

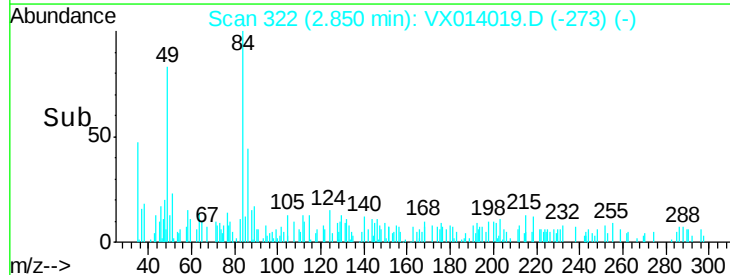
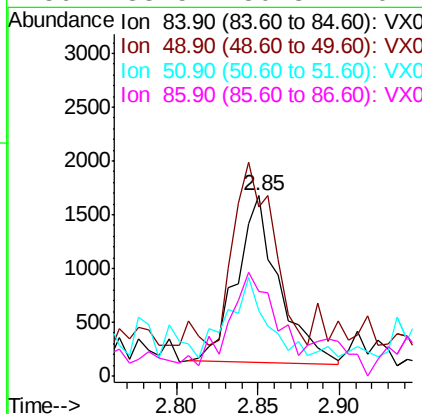
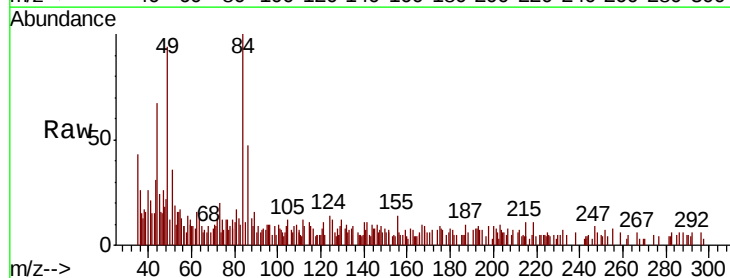
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

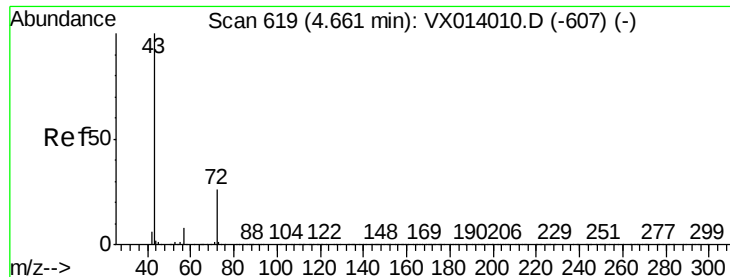
Tgt Ion: 76 Resp: 3591
Ion Ratio Lower Upper
76 100
78 9.6 7.2 10.8



#20
Methylene Chloride
Concen: 0.415 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014019.D
Acq: 13 Dec 2019 21:18

Tgt Ion: 84 Resp: 2825
Ion Ratio Lower Upper
84 100
49 68.9 95.8 143.6#
51 28.2 29.8 44.8#
86 38.5 50.8 76.2#





#25

2-Butanone

Concen: 0.335 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

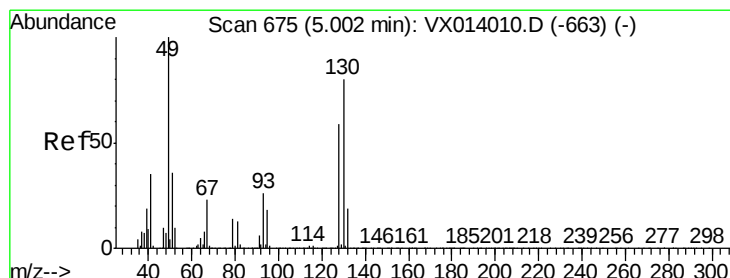
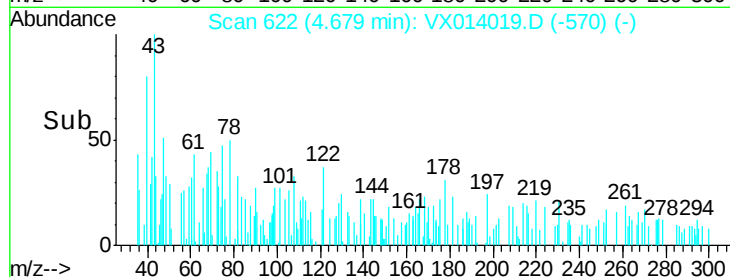
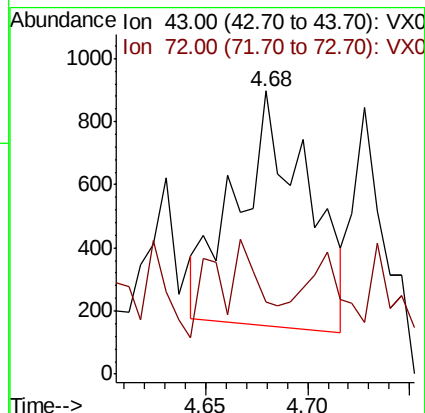
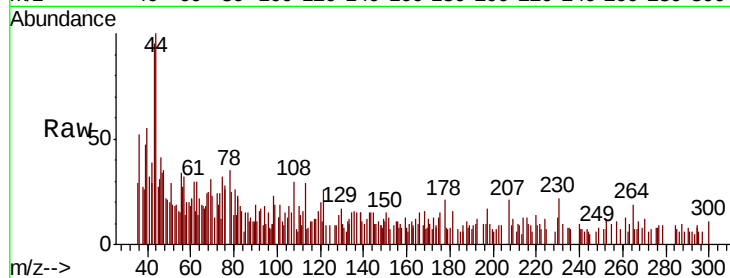
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 43 Resp: 1786

Ion Ratio Lower Upper

43 100

72 56.8 21.0 31.4#



#28

Bromochloromethane

Concen: 0.484 ug/l

RT: 5.03 min Scan# 680

Delta R.T. 0.03 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

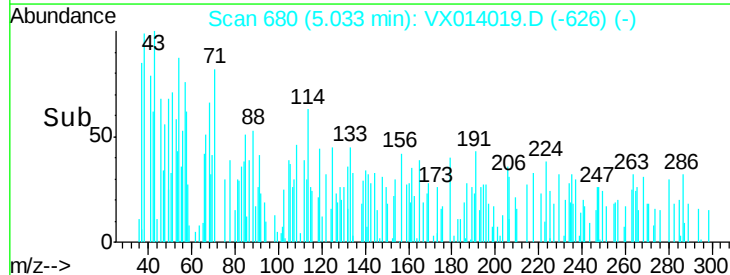
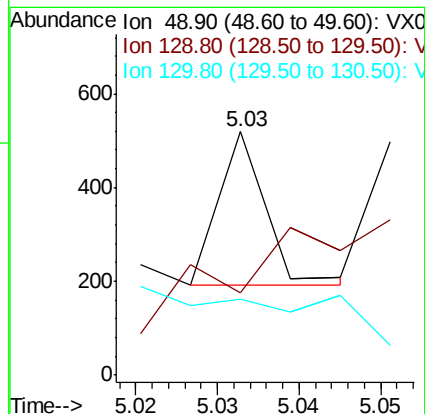
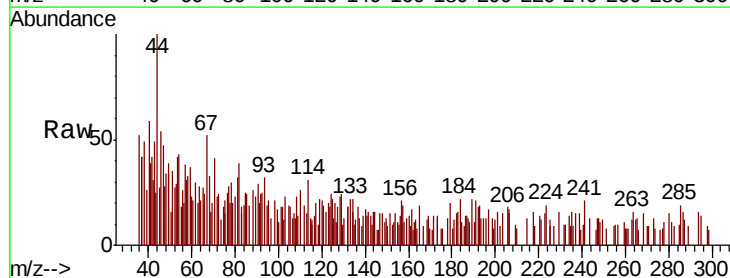
Tgt Ion: 49 Resp: 130

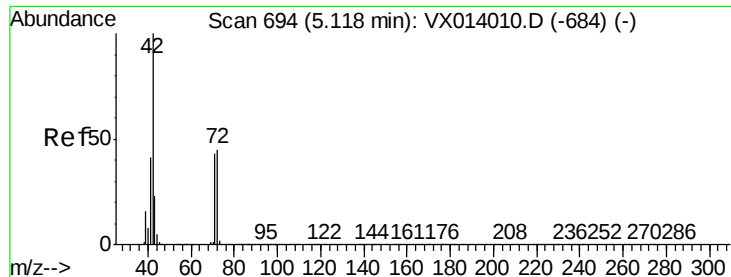
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 0.0 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.406 ug/l

RT: 5.29 min Scan# 723

Delta R.T. 0.18 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

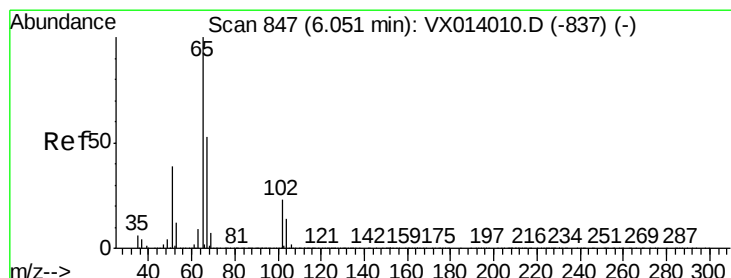
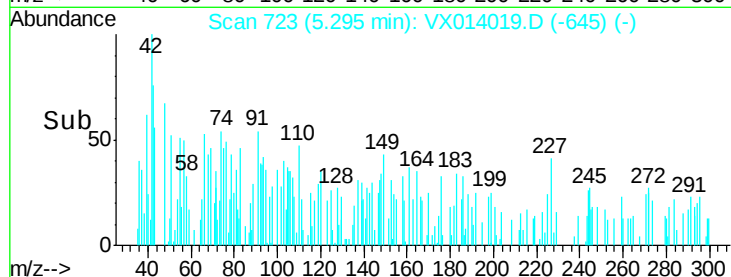
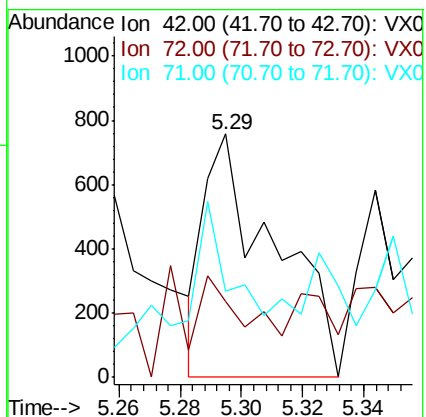
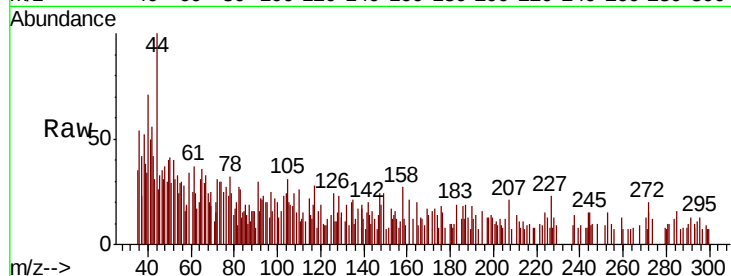
Tgt Ion: 42 Resp: 1211

Ion Ratio Lower Upper

42 100

72 44.5 35.8 53.8

71 38.5 33.6 50.4



#33

1,2-Dichloroethane-d4

Concen: 49.186 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014019.D

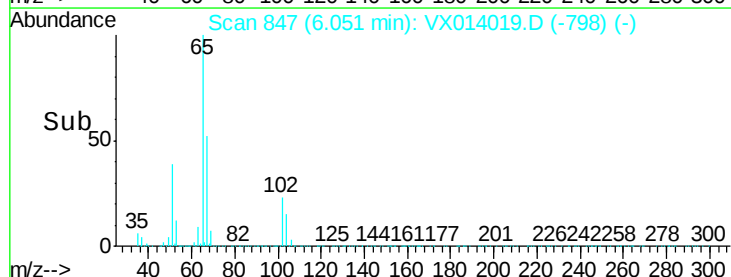
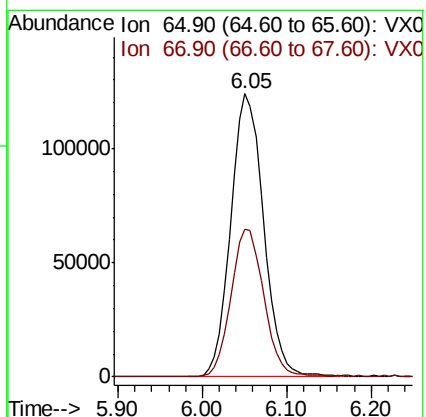
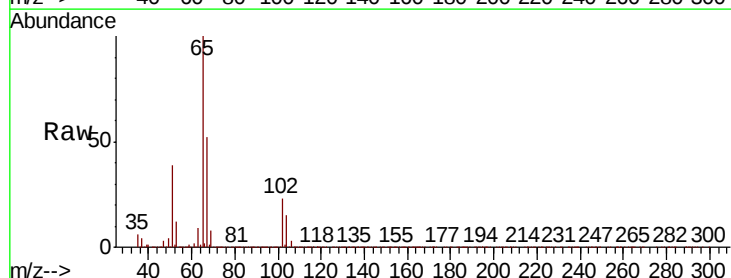
Acq: 13 Dec 2019 21:18

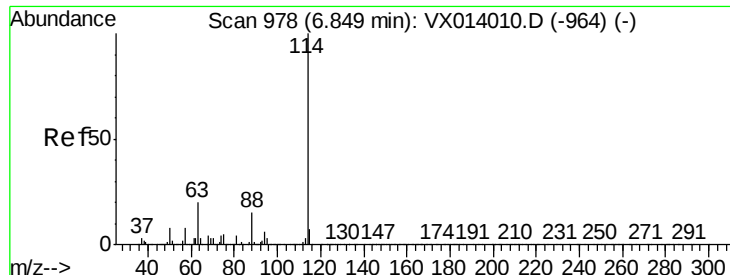
Tgt Ion: 65 Resp: 327364

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

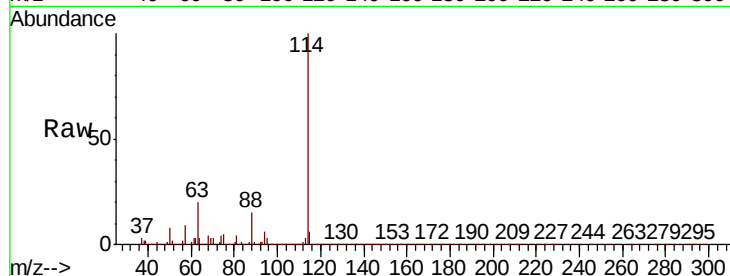
Tgt Ion:114 Resp: 902309

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

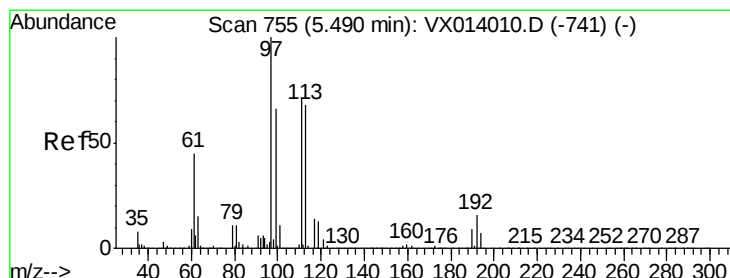
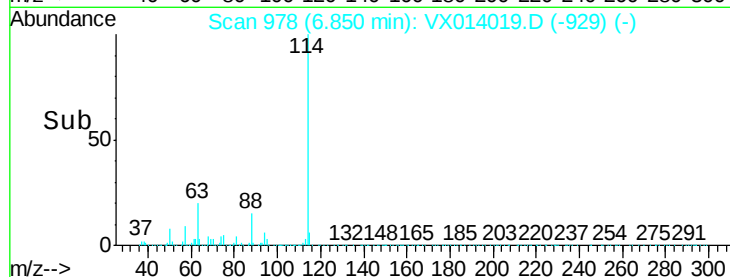
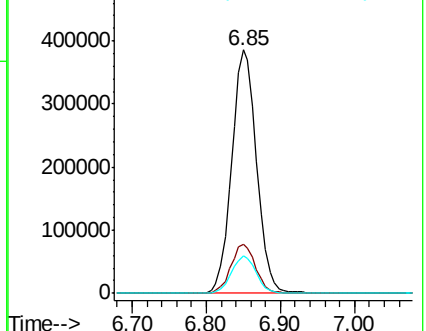
88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.190 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

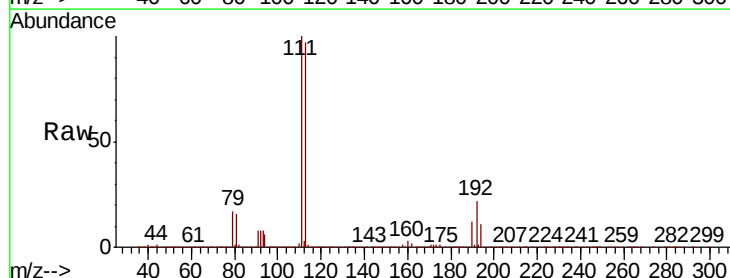
Tgt Ion:113 Resp: 264322

Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

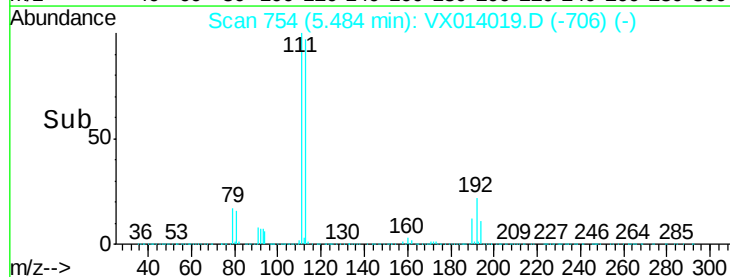
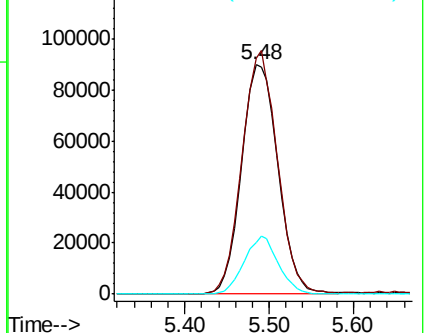
192 23.8 19.3 28.9

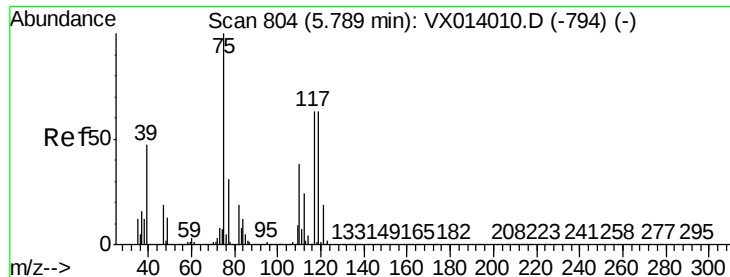


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

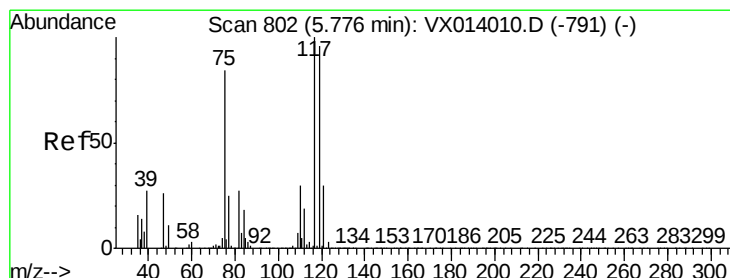
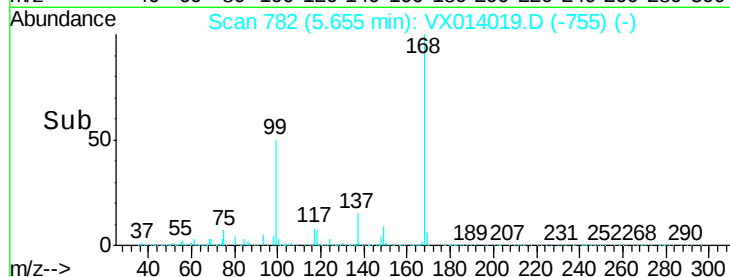
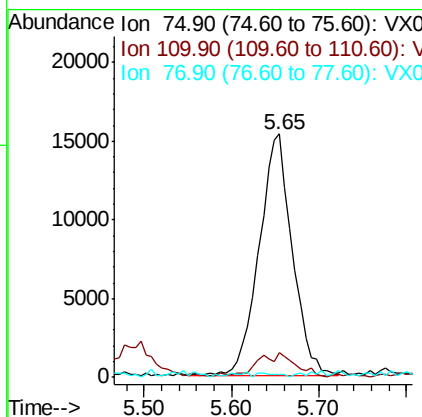
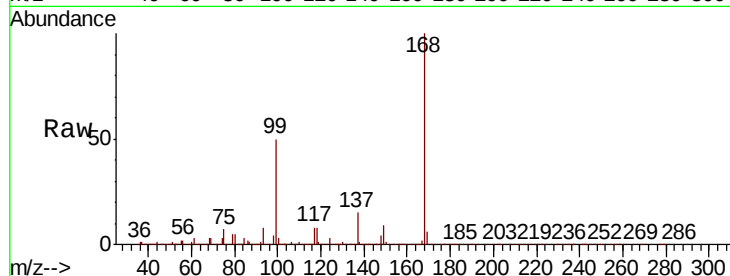




#36
 1,1-Dichloropropene
 Concen: 4.924 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014019.D
 Acq: 13 Dec 2019 21:18

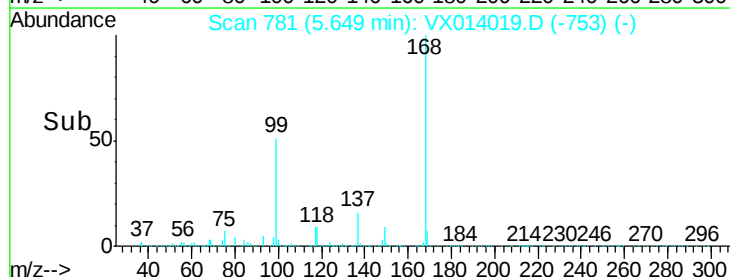
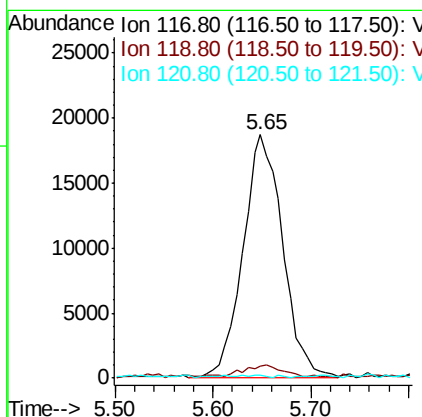
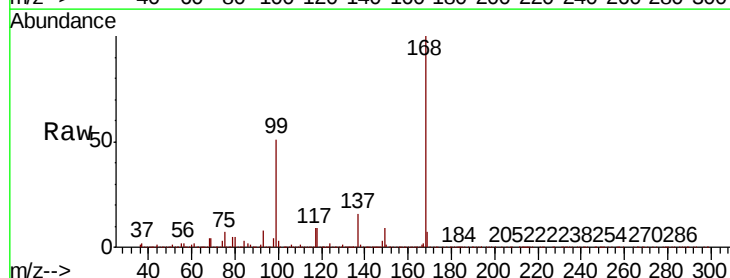
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

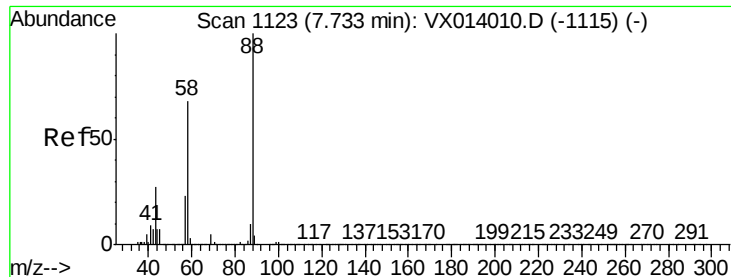
Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.5	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.927 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014019.D
 Acq: 13 Dec 2019 21:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.2	114.4#
121	0.5	23.6	35.4#





#49

1,4-Dioxane

Concen: 1.472 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

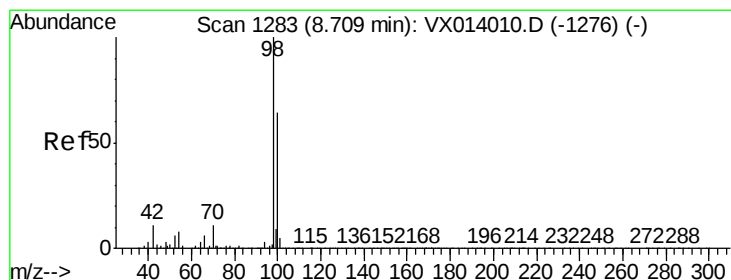
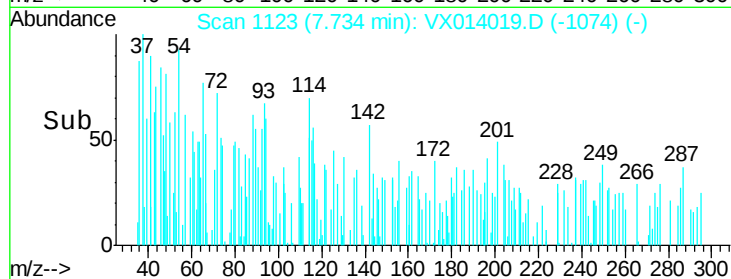
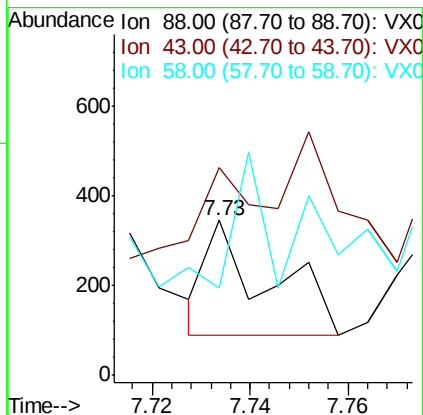
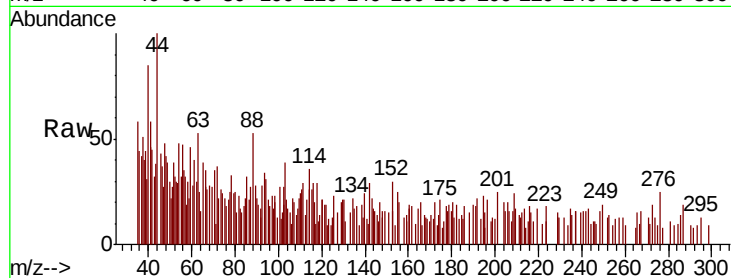
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 328.8 26.5 39.7#

58 50.5 56.8 85.2#



#50

Toluene-d8

Concen: 49.579 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014019.D

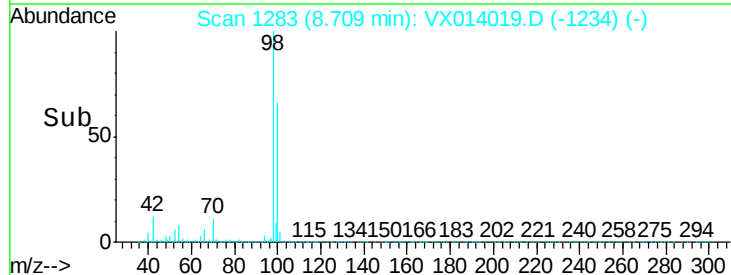
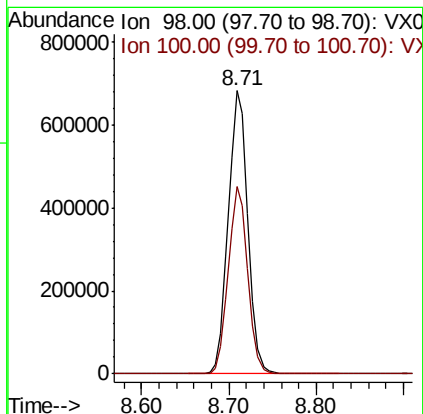
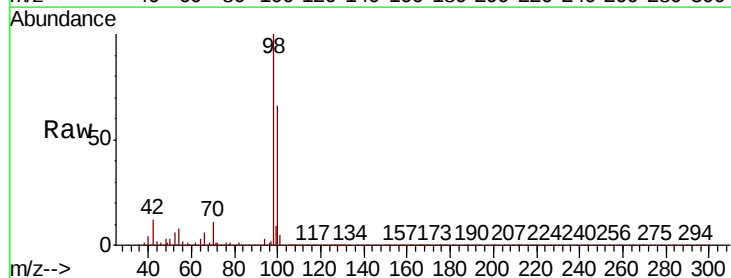
Acq: 13 Dec 2019 21:18

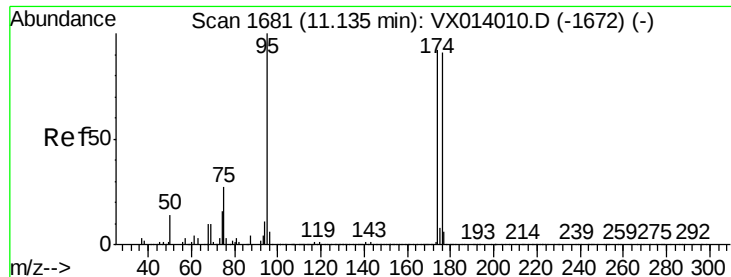
Tgt Ion: 98 Resp: 1058735

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 45.245 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

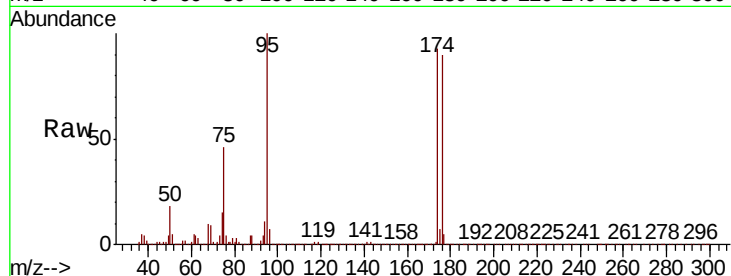
Tgt Ion: 95 Resp: 353187

Ion Ratio Lower Upper

95 100

174 89.0 0.0 175.8

176 86.3 0.0 173.0

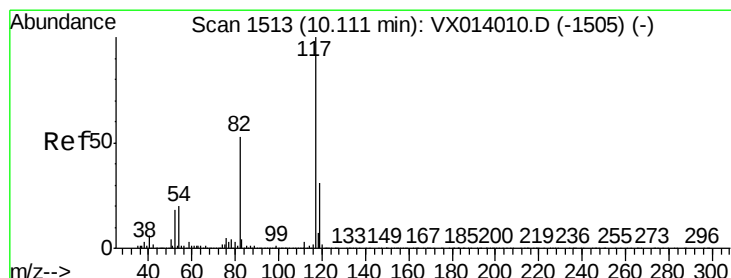
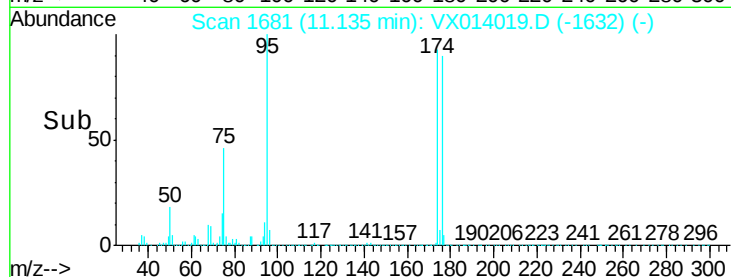


Abundance Ion 94.90 (94.60 to 95.60): VX014019.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX014019.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX014019.D (-1672) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

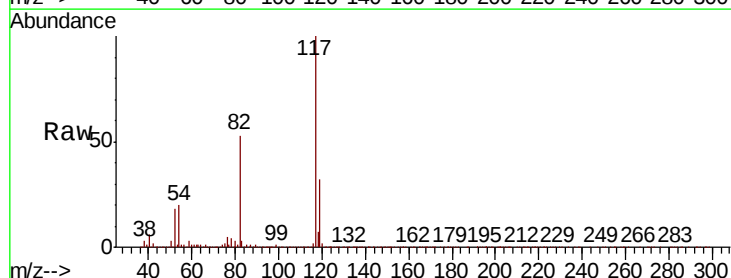
Tgt Ion: 117 Resp: 802799

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.4

119 32.5 25.1 37.7

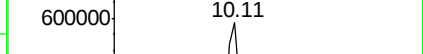
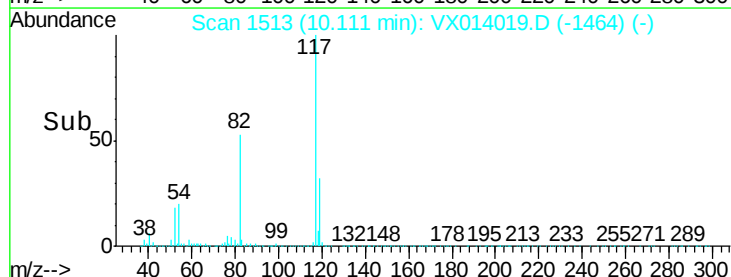


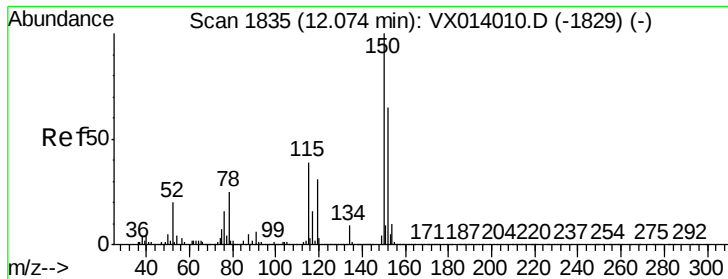
Abundance Ion 116.90 (116.60 to 117.60): VX014019.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014019.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014019.D (-1464) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

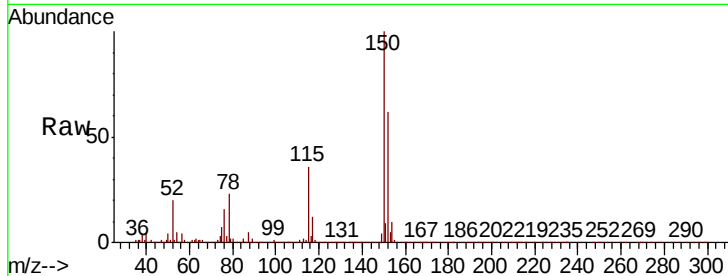
Tgt Ion: 152 Resp: 335440

Ion Ratio Lower Upper

152 100

115 55.8 38.3 114.9

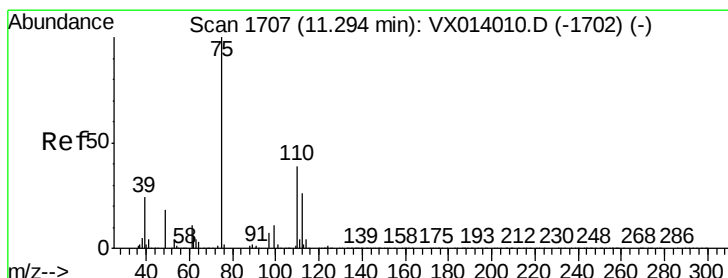
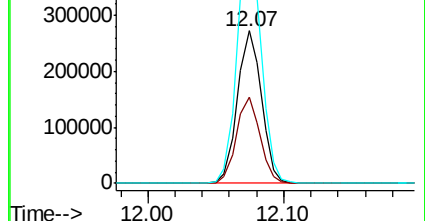
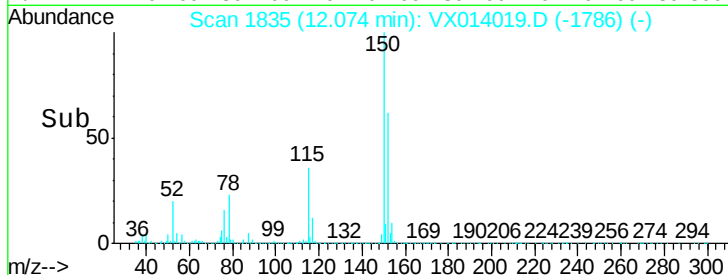
150 156.9 0.0 345.4



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: 22.508 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX014019.D

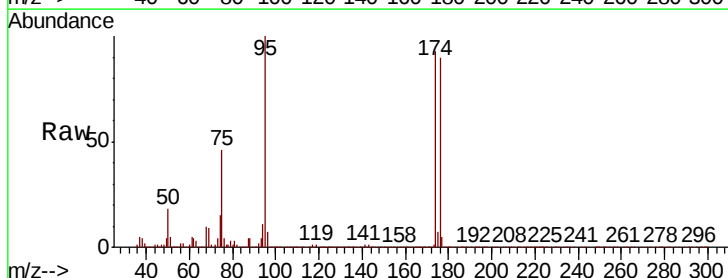
Acq: 13 Dec 2019 21:18

Tgt Ion: 75 Resp: 170651

Ion Ratio Lower Upper

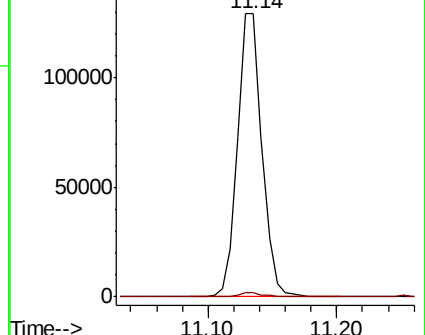
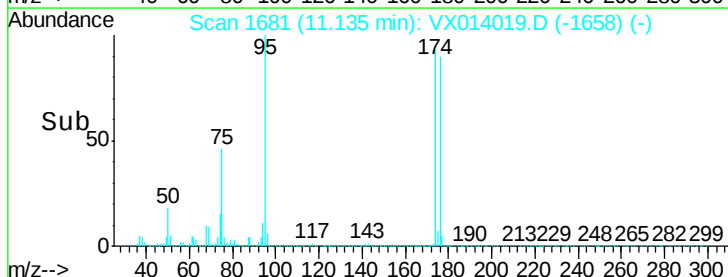
75 100

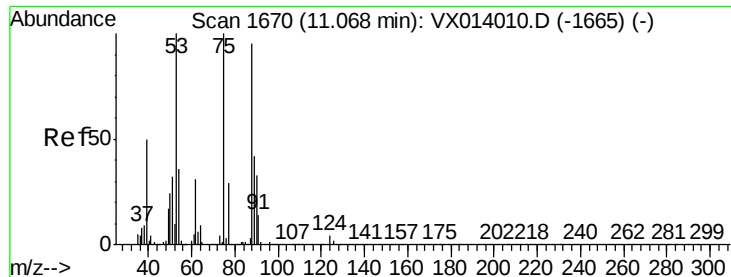
77 1.3 19.3 57.8#



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: 66.142 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX014019.D

Acq: 13 Dec 2019 21:18

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

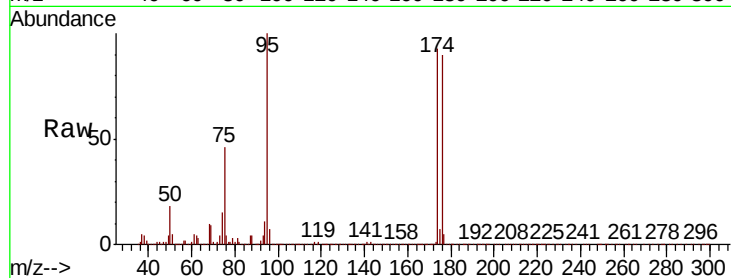
Tgt Ion: 75 Resp: 170651

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.2 34.6 51.8#



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

