

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032720\
 Data File : VX015402.D
 Acq On : 28 Mar 2020 00:31
 Operator : JC/SP
 Sample : L2018-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Mar 30 01:50:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1125001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1790284	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1692903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	902115	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	733934	46.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.52%	
35) Dibromofluoromethane	5.47	113	559914	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
50) Toluene-d8	8.70	98	2169202	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.12	95	928433	54.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.44%	

Target Compounds

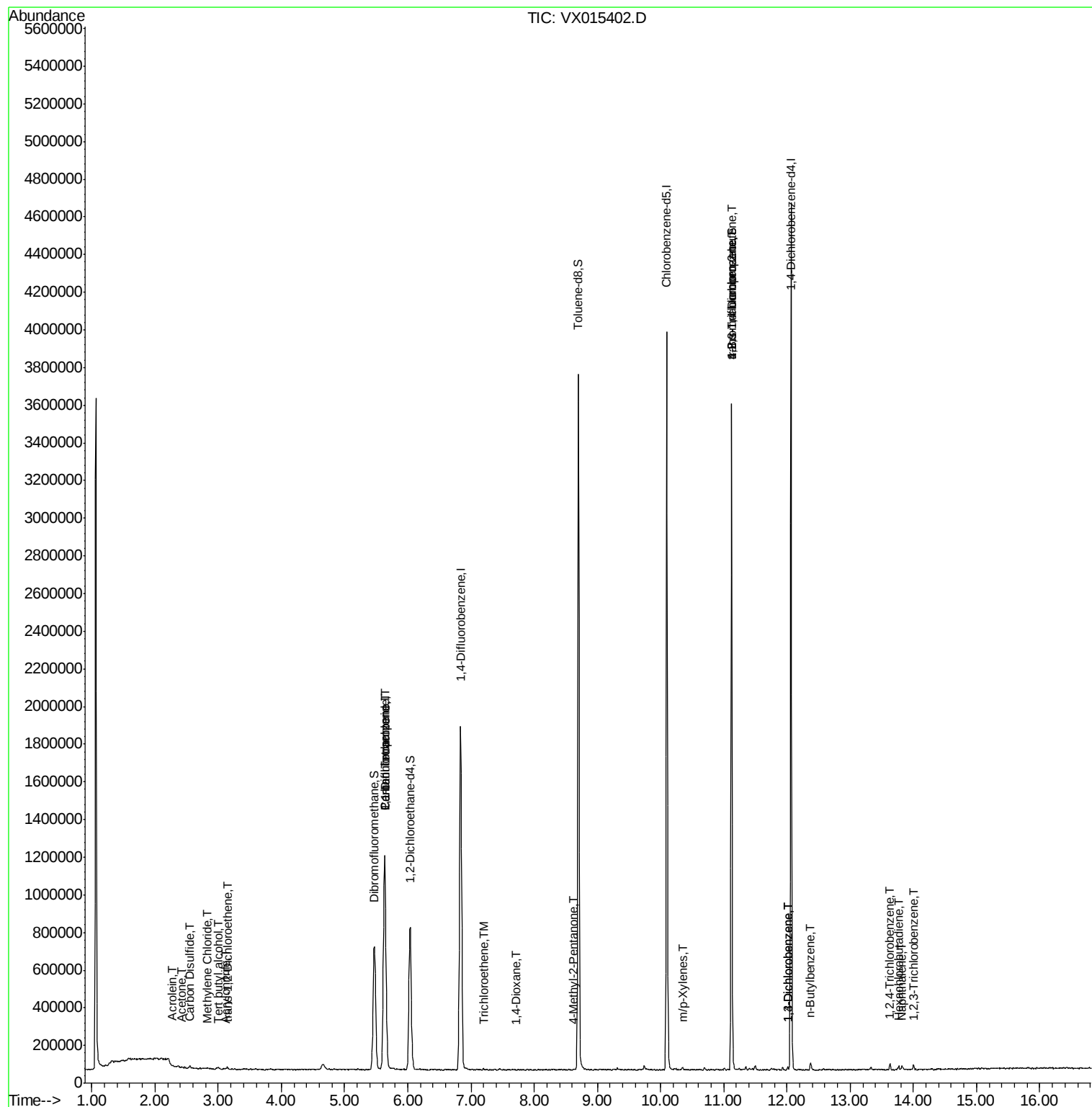
						Qvalue
5) Bromomethane	1.64	94	556	Below Cal	#	70
11) Tert butyl alcohol	2.99	59	8716	2.295	ug/l #	73
13) Acrolein	2.28	56	886	0.410	ug/l #	1
15) Acrylonitrile	3.12	53	3155	0.436	ug/l #	63
16) Acetone	2.43	43	3590	0.527	ug/l #	87
17) Carbon Disulfide	2.55	76	15533	0.479	ug/l #	94
20) Methylene Chloride	2.84	84	3681	0.289	ug/l	90
21) trans-1,2-Dichloroethene	3.14	96	2538	0.215	ug/l	83
36) 1,1-Dichloropropene	5.64	75	86972	5.272	ug/l #	52
38) Carbon Tetrachloride	5.64	117	106972	5.987	ug/l #	15
44) Trichloroethene	7.19	130	2780	0.211	ug/l	81
49) 1,4-Dioxane	7.72	88	370	1.095	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	4559	0.222	ug/l #	67
68) m/p-Xylenes	10.35	106	5235	0.235	ug/l	75
76) 1,2,3-Trichloropropane	11.12	75	478644	25.801	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	478644	61.909	ug/l #	10
87) 1,3-Dichlorobenzene	12.01	146	6840	0.242	ug/l	94
88) 1,4-Dichlorobenzene	12.01	146	6724	0.234	ug/l	93
89) n-Butylbenzene	12.37	91	12985	0.271	ug/l	93
93) 1,2,4-Trichlorobenzene	13.63	180	9224	0.422	ug/l	97
94) Hexachlorobutadiene	13.77	225	4642	0.446	ug/l	83
95) Naphthalene	13.82	128	15536	0.233	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.01	180	5544	0.264	ug/l	94

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

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QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

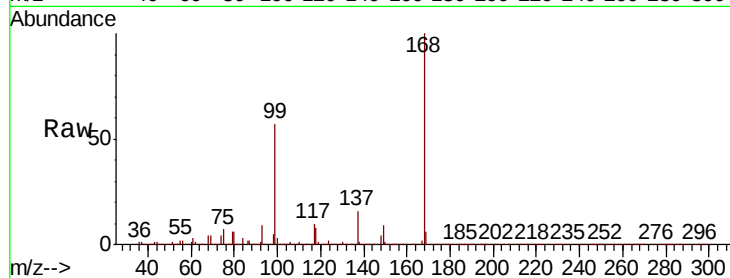
TRIP-BLANK

Tot Ion:168 Resp: 1125001

Ion Ratio Lower Upper

168 100

99 57.3 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

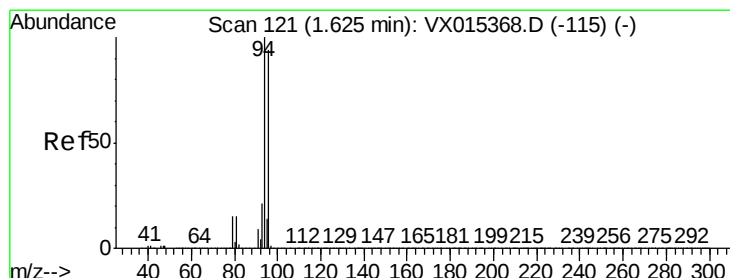
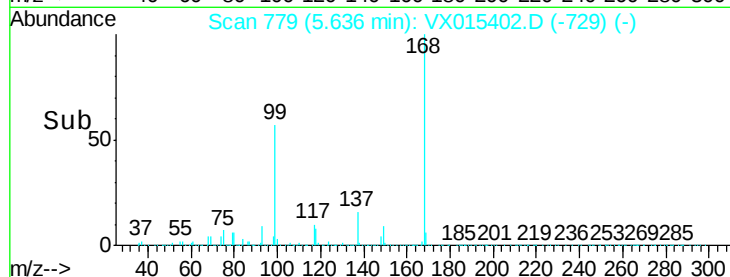
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015402.D

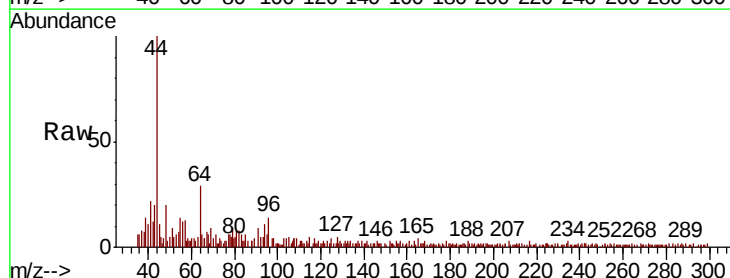
Acq: 28 Mar 2020 00:31

Tgt Ion: 94 Resp: 556

Ion Ratio Lower Upper

94 100

96 122.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

2000

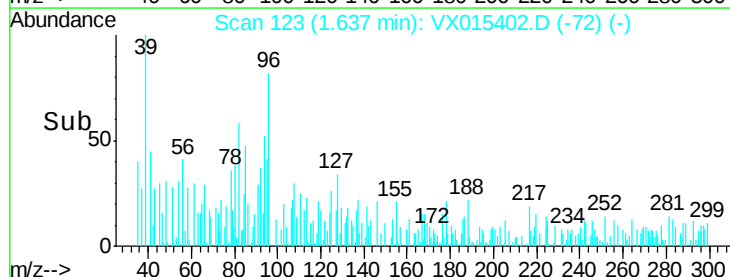
1500

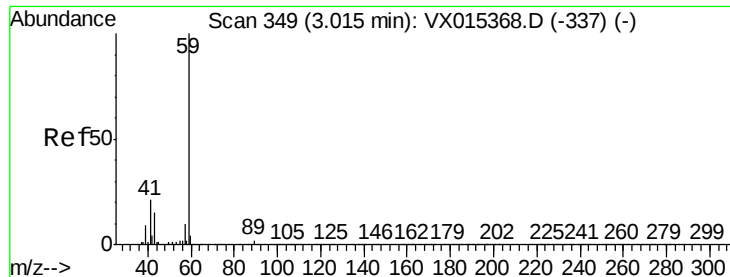
1000

500

0

Time-->



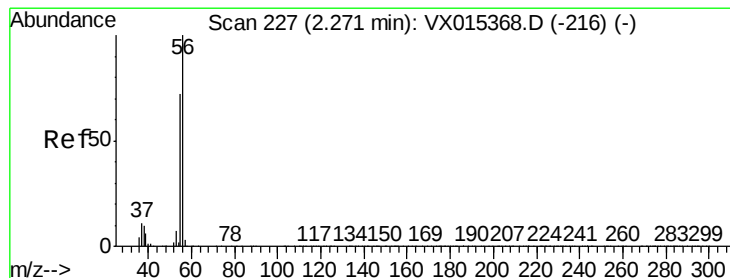
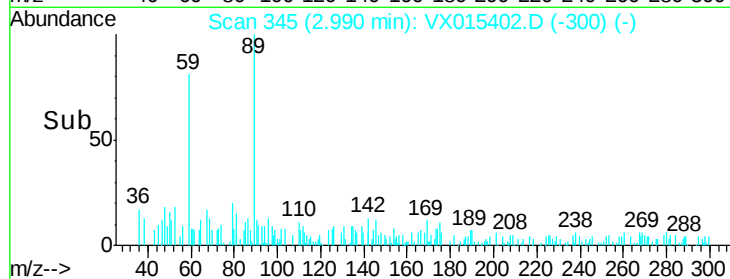
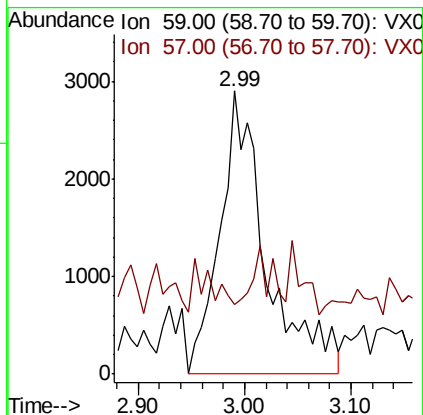
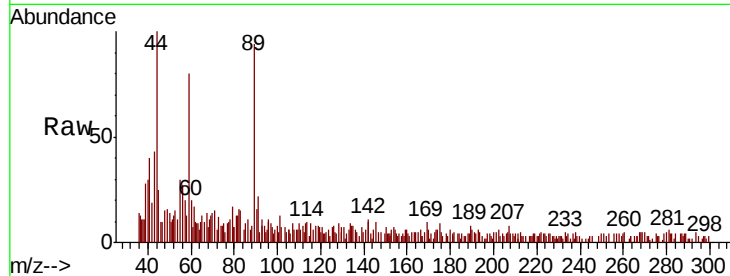


#11

Tert butvl alcohol
Concen: 2.295 ug/l
RT: 2.99 min Scan# 345
Delta R.T. -0.02 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

Instrument :
MSVOA_X
ClientSampled :
TRIP-BLANK

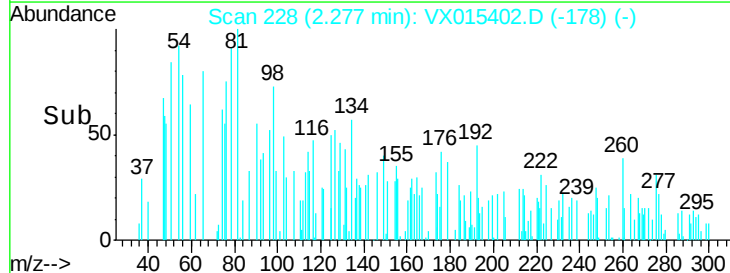
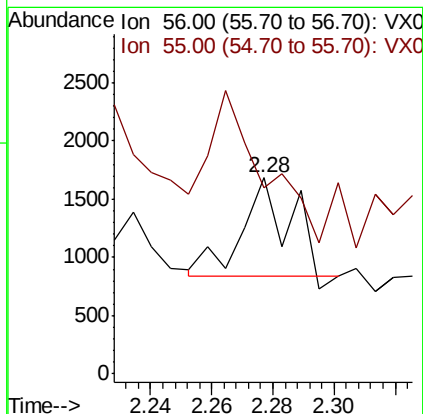
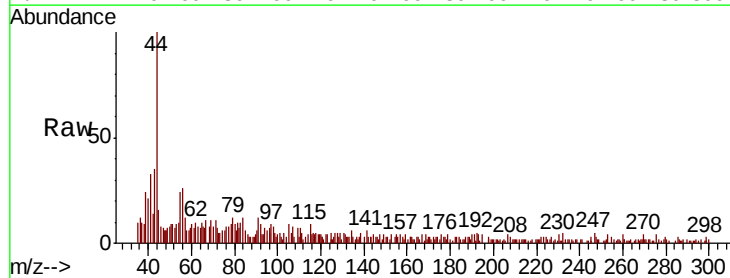
Tot Ion: 59 Resp: 8716
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

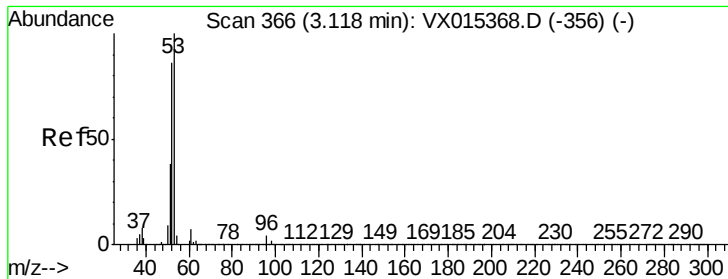


#13

Acrolein
Concen: 0.410 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

Tgt Ion: 56 Resp: 886
Ion Ratio Lower Upper
56 100
55 178.7 57.0 85.4#

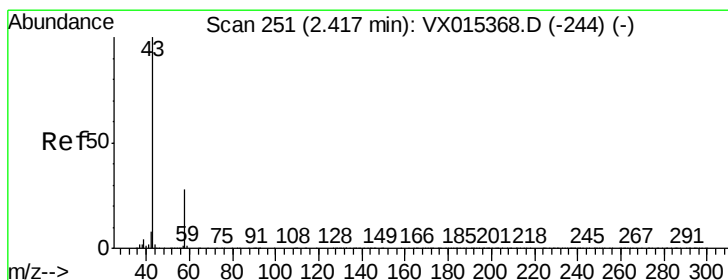
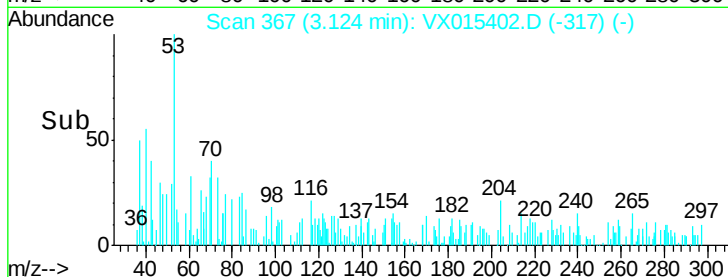
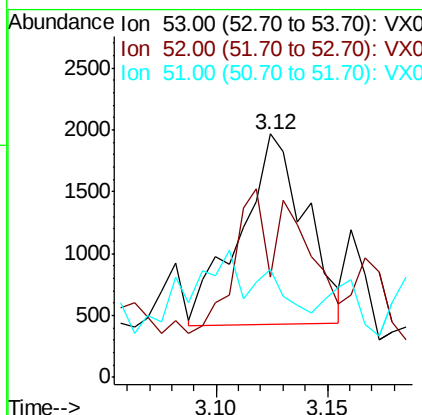
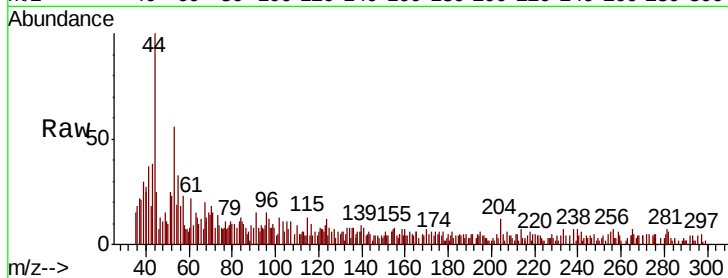




#15
Acrylonitrile
Concen: 0.436 ug/l
RT: 3.12 min Scan# 367
Delta R.T. 0.01 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

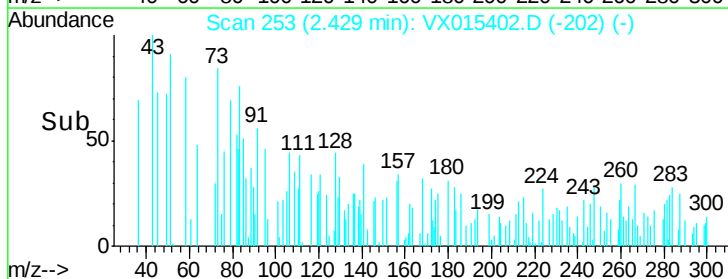
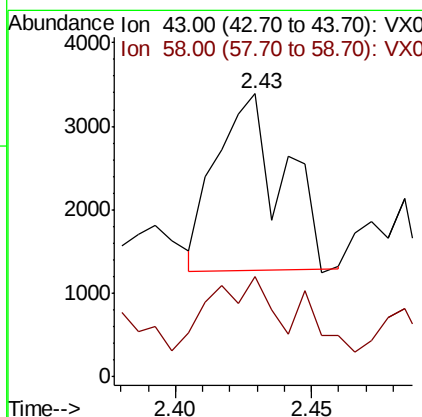
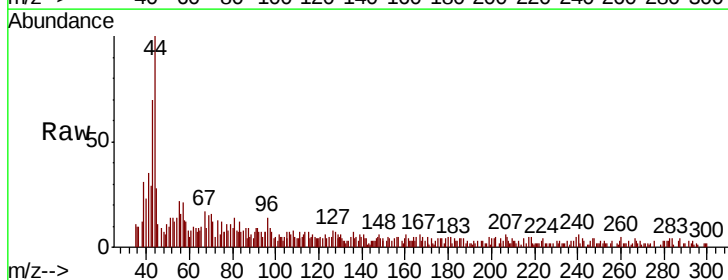
Instrument :
MSVOA_X
ClientSampled :
TRIP-BLANK

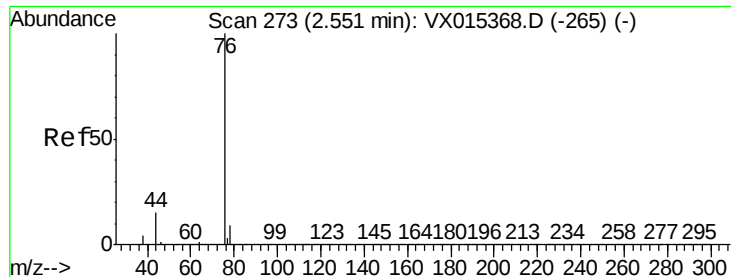
Tot Ion: 53 Resp: 3155
Ion Ratio Lower Upper
53 100
52 37.6 66.8 100.2#
51 41.2 29.5 44.3



#16
Acetone
Concen: 0.527 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.01 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

Tgt Ion: 43 Resp: 3590
Ion Ratio Lower Upper
43 100
58 34.2 22.1 33.1#





#17

Carbon Disulfide

Concen: 0.479 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

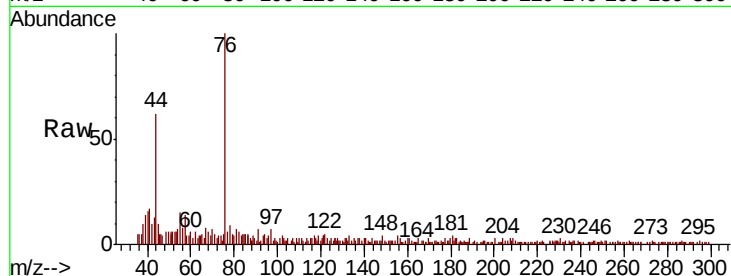
TRIP-BLANK

Tot Ion: 76 Resp: 15533

Ion Ratio Lower Upper

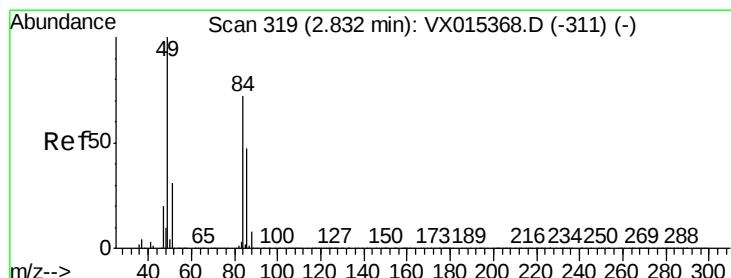
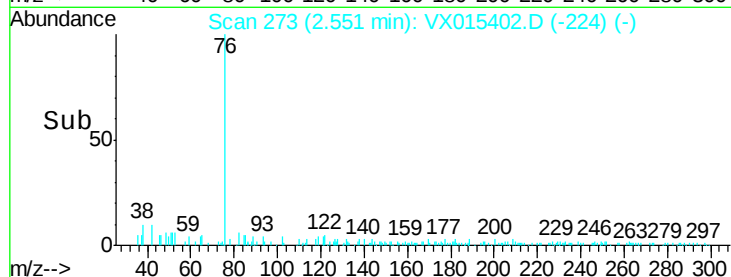
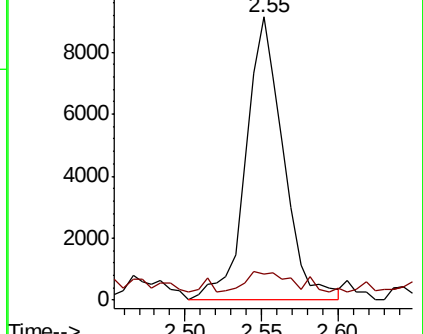
76 100

78 6.6 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.289 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.01 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Tgt Ion: 84 Resp: 3681

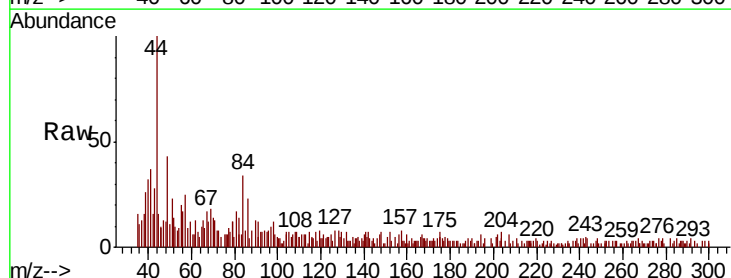
Ion Ratio Lower Upper

84 100

49 150.4 111.3 166.9

51 38.3 34.0 51.0

86 75.2 52.5 78.7

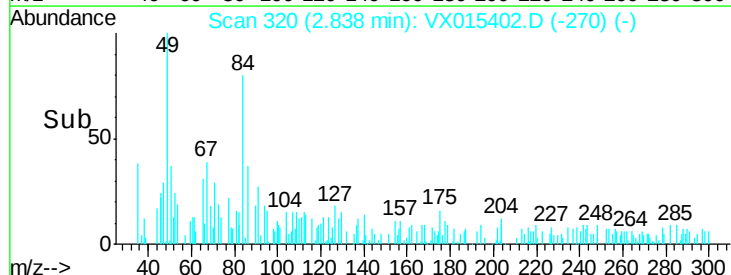
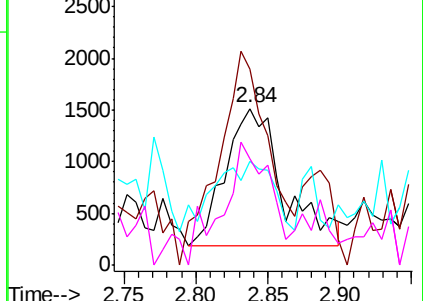


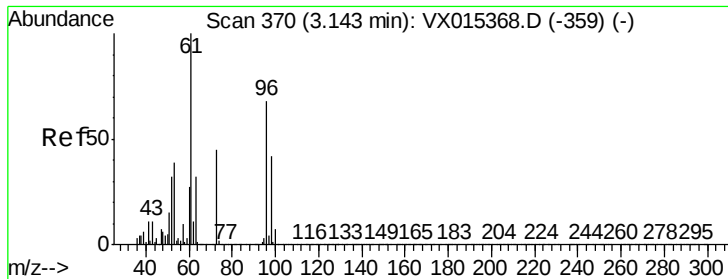
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.215 ug/l

RT: 3.14 min Scan# 370

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

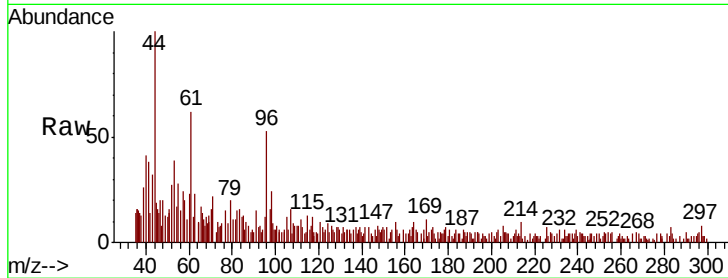
Tot Ion: 96 Resp: 2538

Ion Ratio Lower Upper

96 100

61 121.9 116.9 175.3

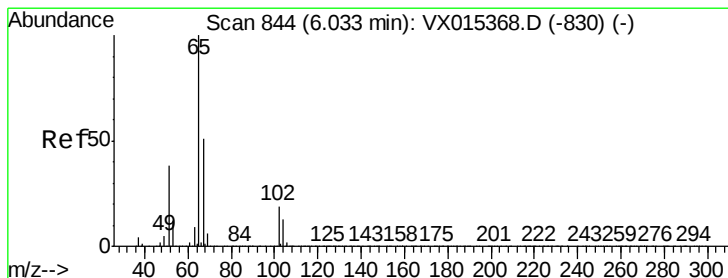
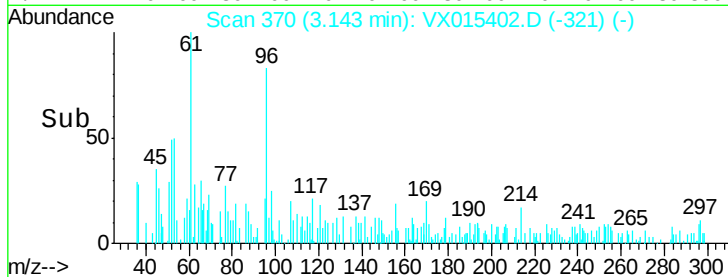
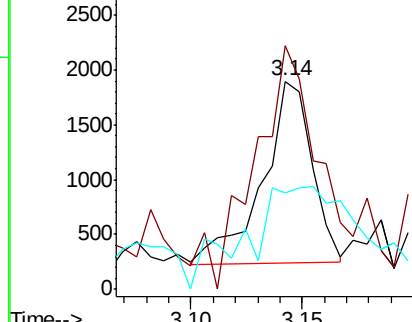
98 53.4 48.6 73.0



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



#33

1,2-Dichloroethane-d4

Concen: 46.256 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015402.D

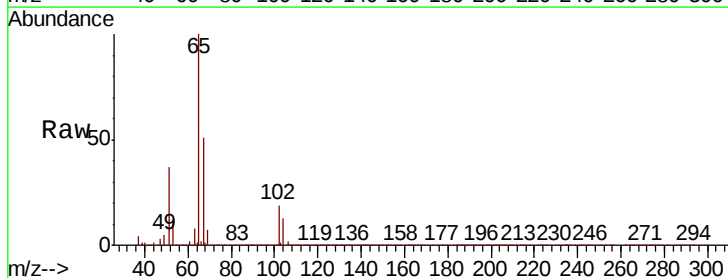
Acq: 28 Mar 2020 00:31

Tgt Ion: 65 Resp: 733934

Ion Ratio Lower Upper

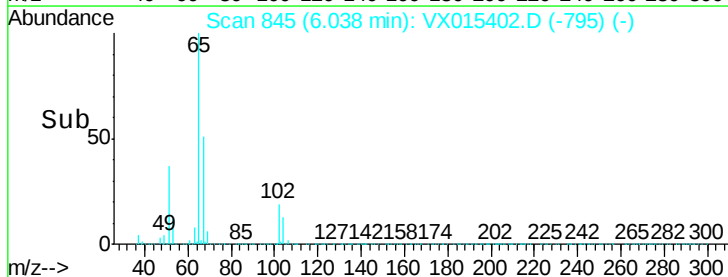
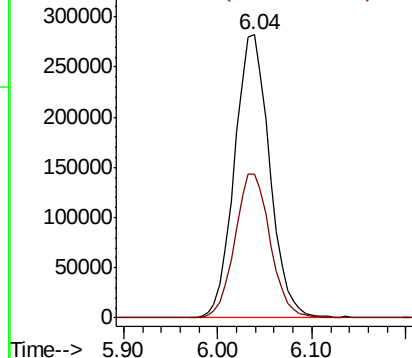
65 100

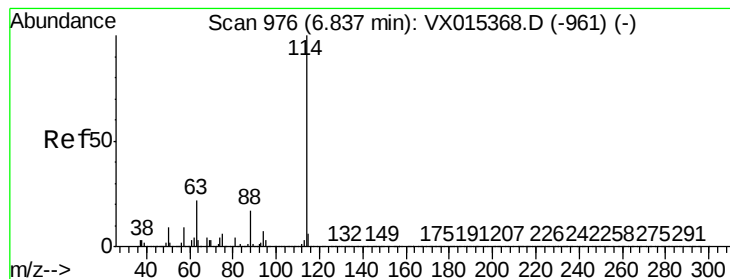
67 50.8 0.0 102.6



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: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

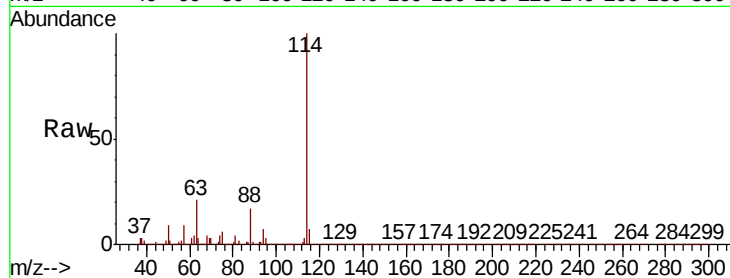
Tot Ion:114 Resp: 1790284

Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.2

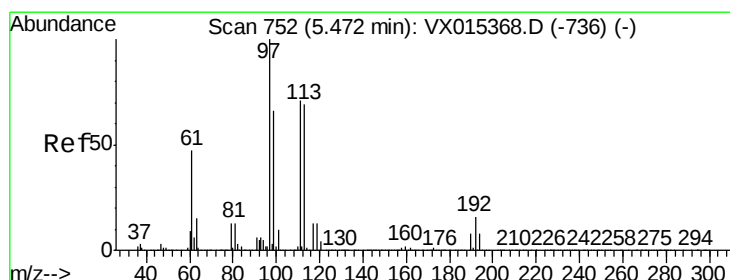
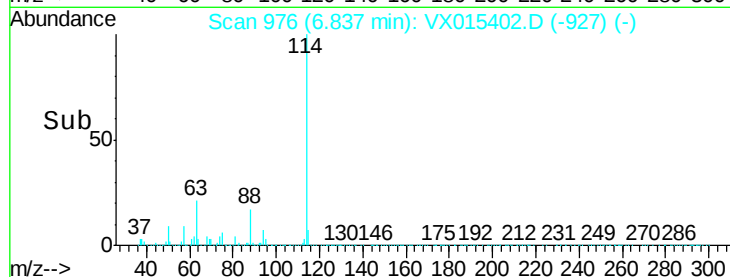
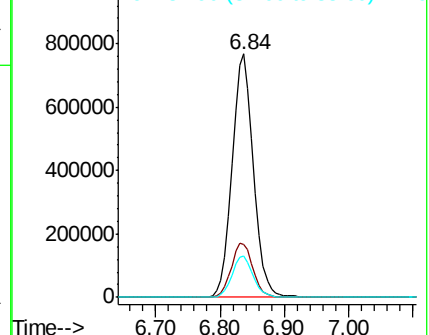
88 17.1 0.0 33.8



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: 48.926 ug/l

RT: 5.47 min Scan# 751

Delta R.T. -0.01 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

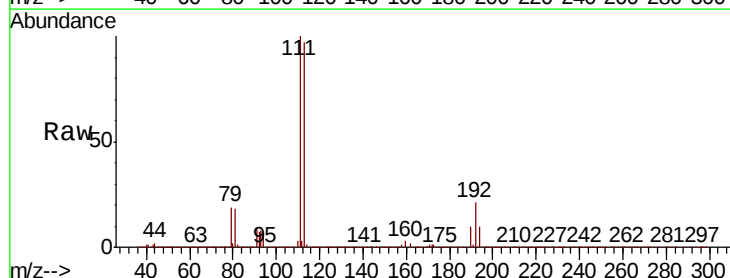
Tgt Ion:113 Resp: 559914

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

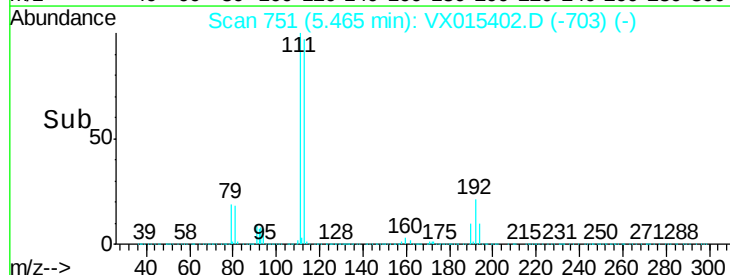
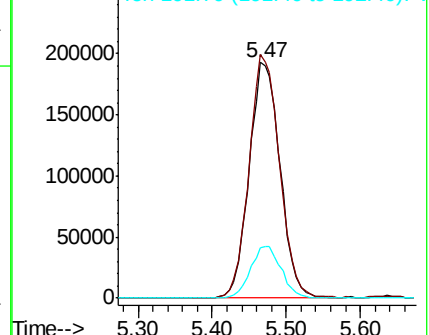
192 21.8 17.8 26.6

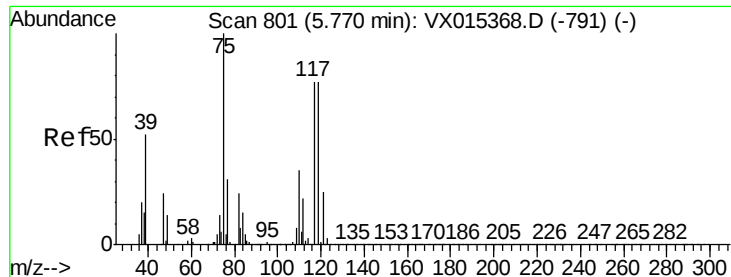


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.272 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

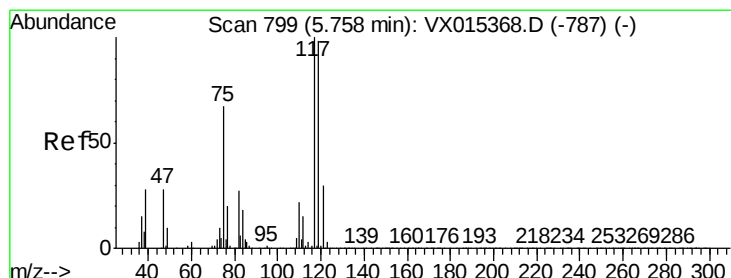
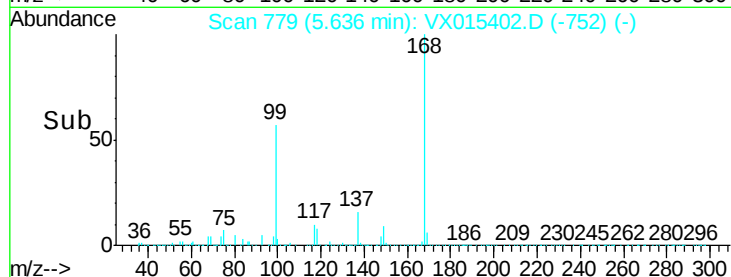
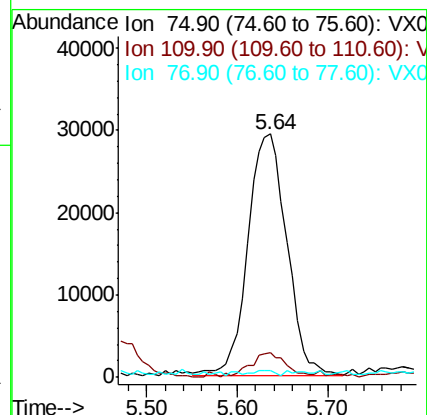
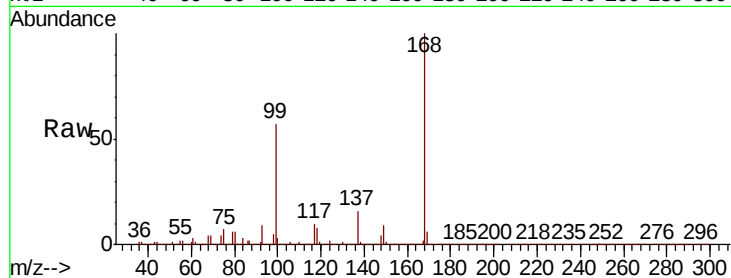
Tot Ion: 75 Resp: 86972

Ion Ratio Lower Upper

75 100

110 9.6 17.1 51.3#

77 1.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.987 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

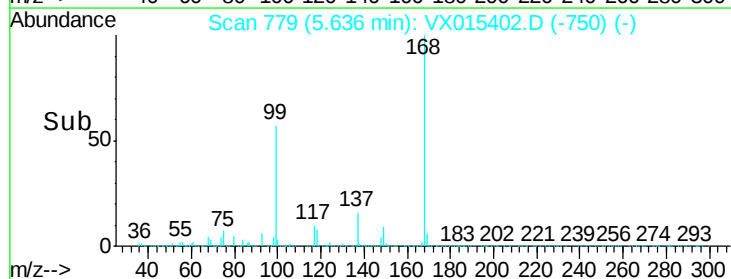
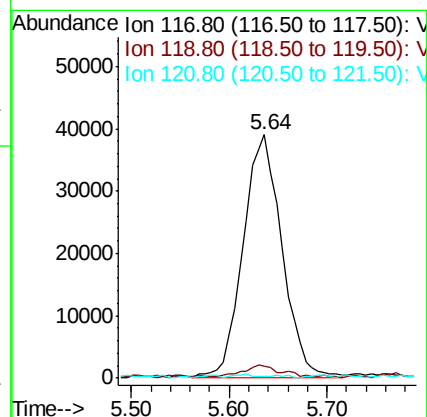
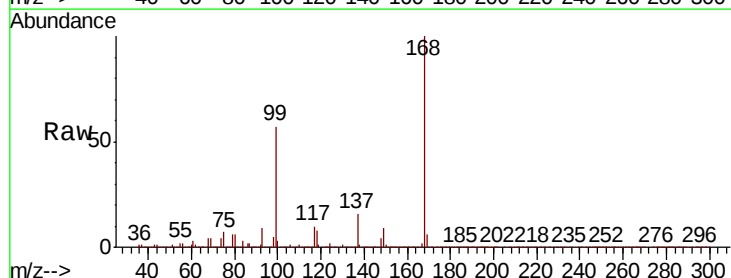
Tgt Ion: 117 Resp: 106972

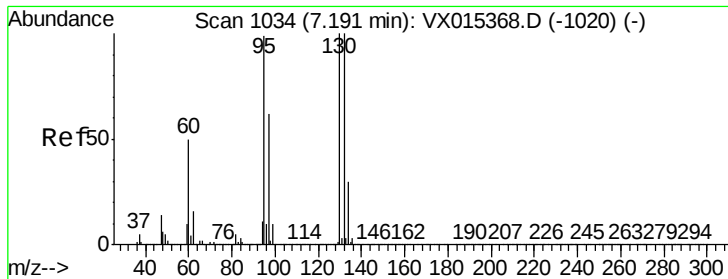
Ion Ratio Lower Upper

117 100

119 4.7 78.0 117.0#

121 0.6 23.8 35.8#





#44

Trichloroethene

Concen: 0.211 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampled :

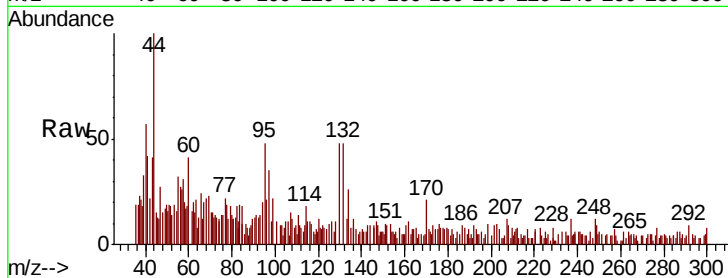
TRIP-BLANK

Tot Ion:130 Resp: 2780

Ion Ratio Lower Upper

130 100

95 80.4 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

1500

1000

500

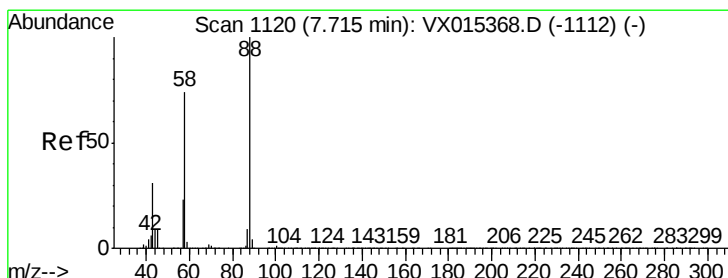
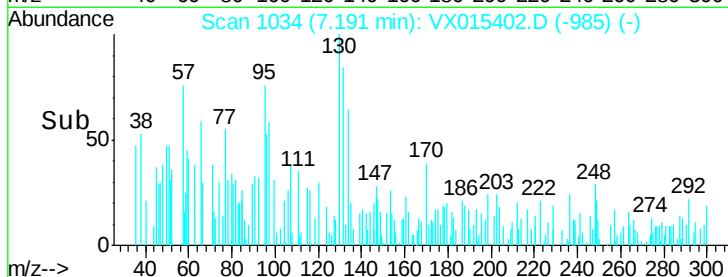
0

7.15

7.20

7.25

Time-->



#49

1,4-Dioxane

Concen: 1.095 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

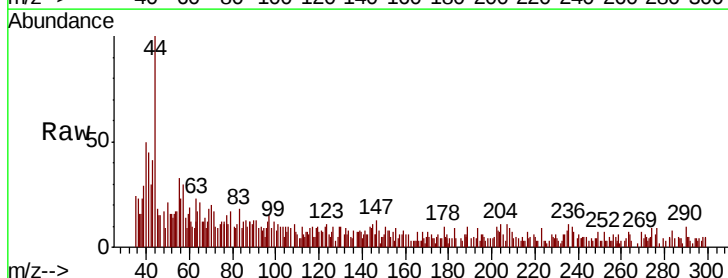
Tgt Ion: 88 Resp: 370

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 413.5 60.6 90.8#



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

2000

1500

1000

500

0

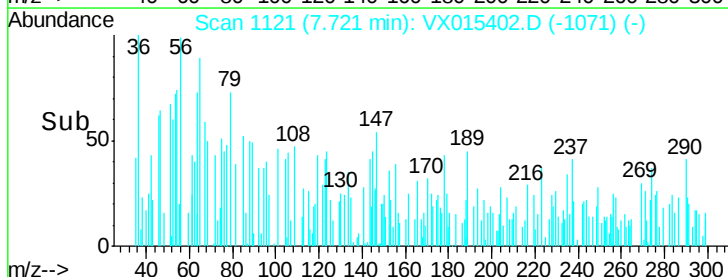
7.70

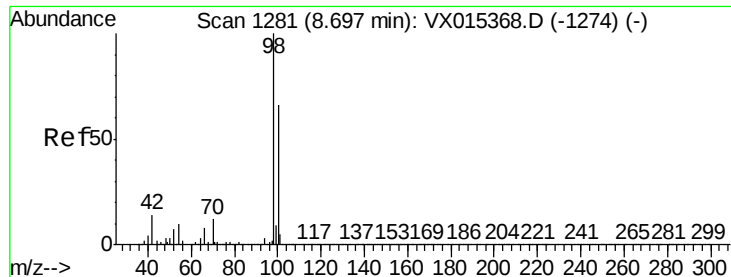
7.71

7.72

7.73

Time-->

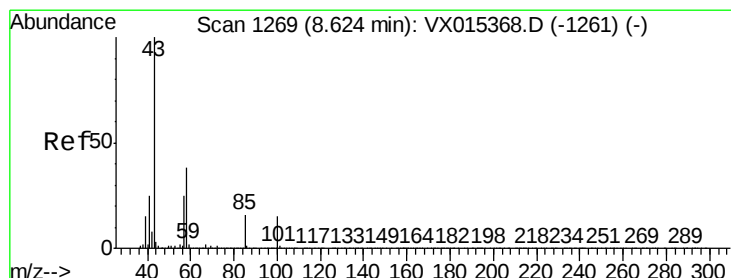
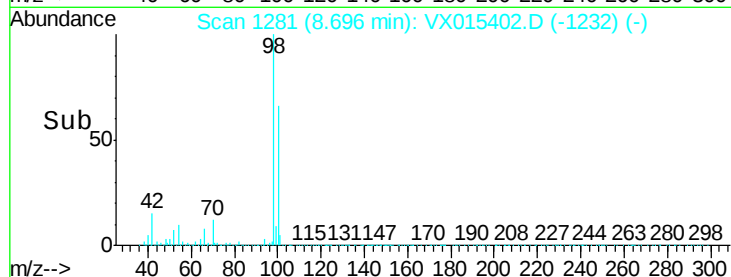
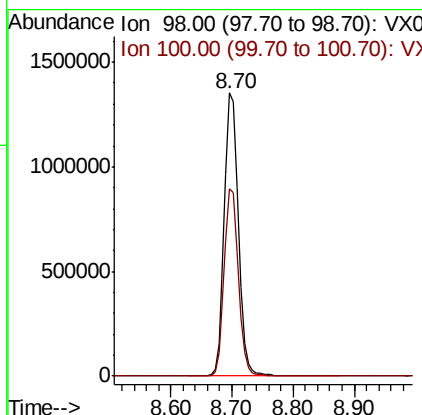
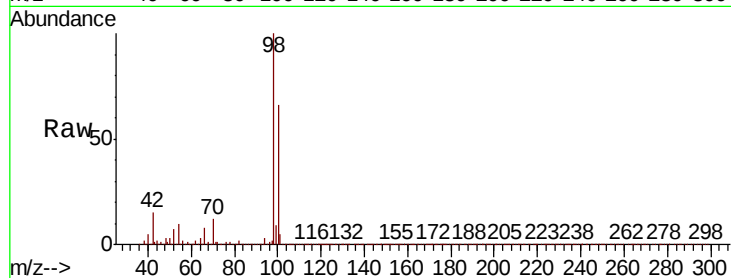




#50
Toluene-d8
Concen: 51.484 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

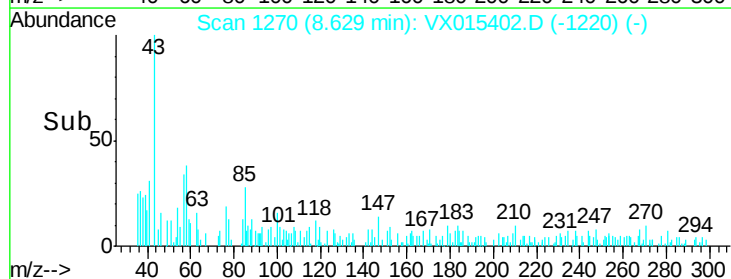
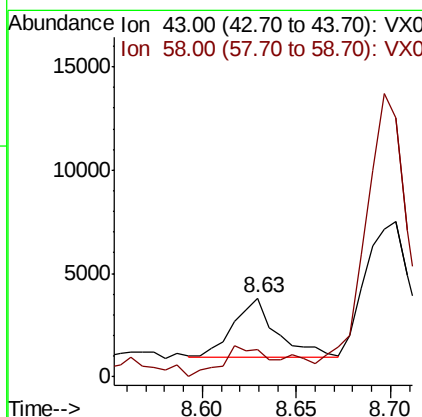
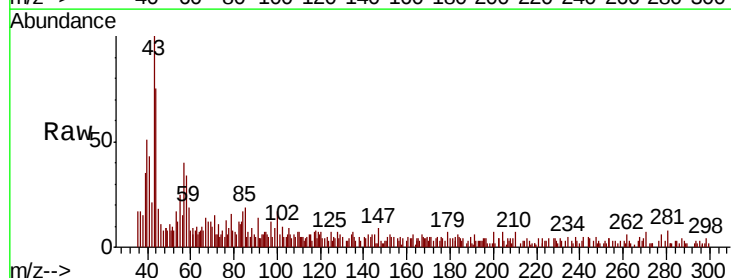
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

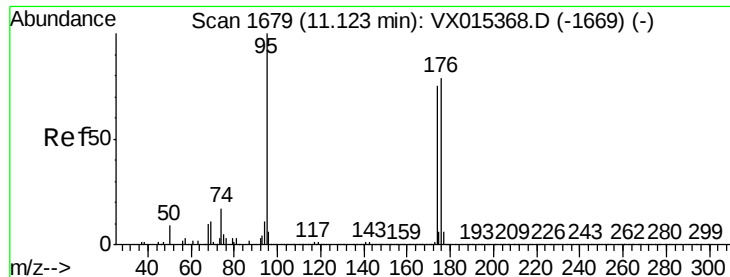
Tot Ion: 98 Resp: 2169202
Ion Ratio Lower Upper
98 100
100 66.4 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 0.222 ug/l
RT: 8.63 min Scan# 1270
Delta R.T. 0.01 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

Tgt Ion: 43 Resp: 4559
Ion Ratio Lower Upper
43 100
58 56.9 29.7 44.5#





#62

4-Bromofluorobenzene

Concen: 54.221 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

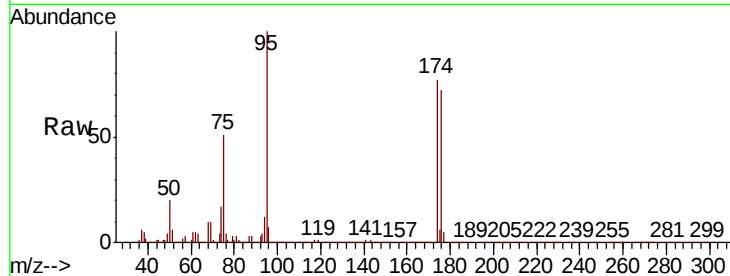
Tot Ion: 95 Resp: 928433

Ion Ratio Lower Upper

95 100

174 77.9 0.0 158.6

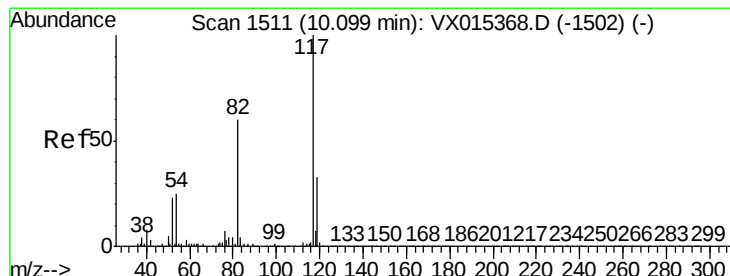
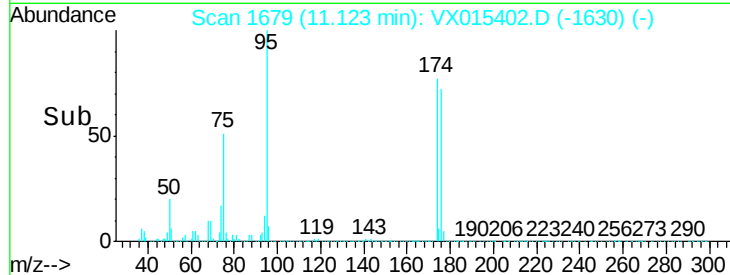
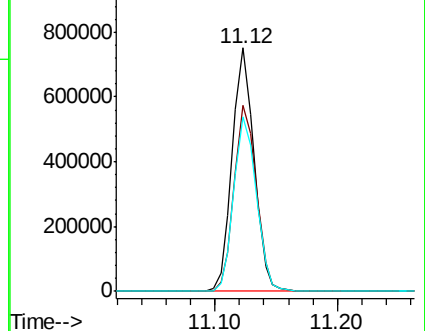
176 73.9 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

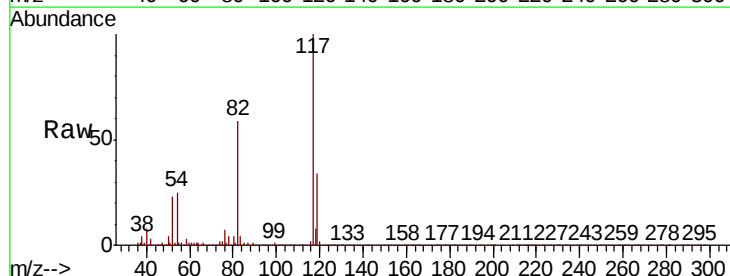
Tgt Ion: 117 Resp: 1692903

Ion Ratio Lower Upper

117 100

82 59.4 47.8 71.8

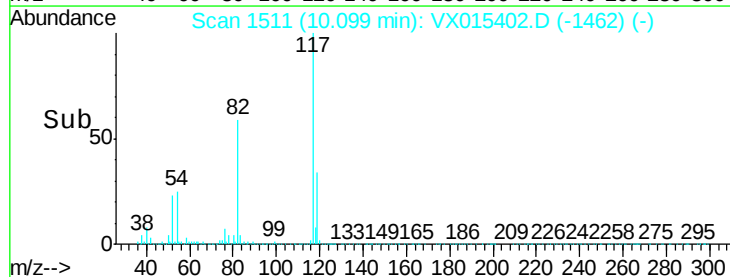
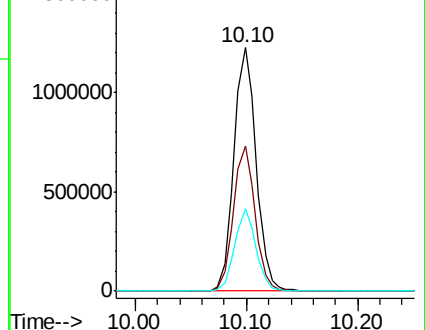
119 33.6 26.8 40.2

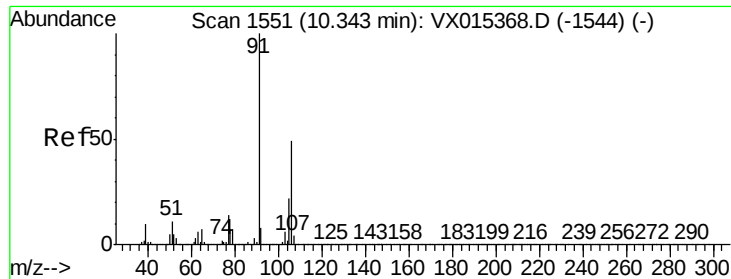


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

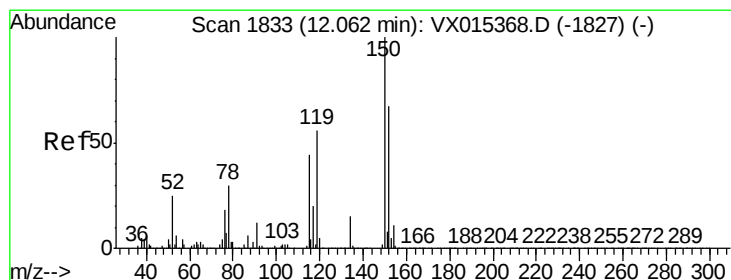
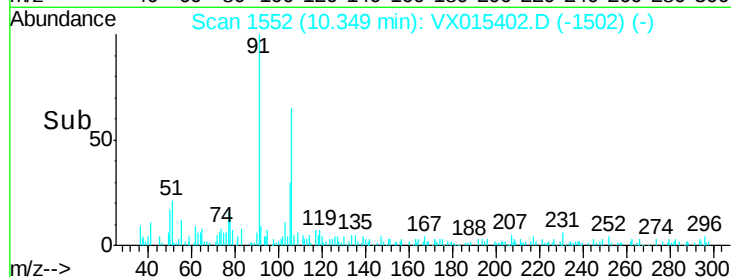
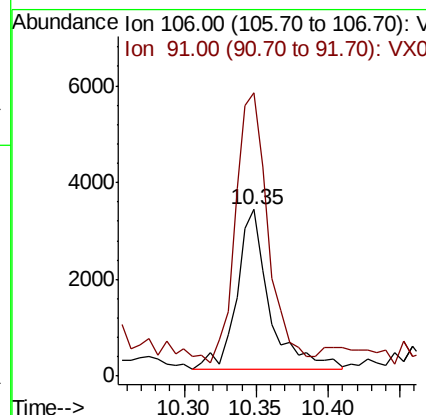
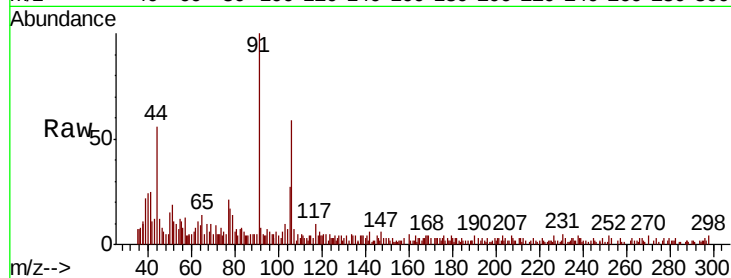




#68
m/p-Xvlenes
Concen: 0.235 ug/l
RT: 10.35 min Scan# 1552
Delta R.T. 0.01 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

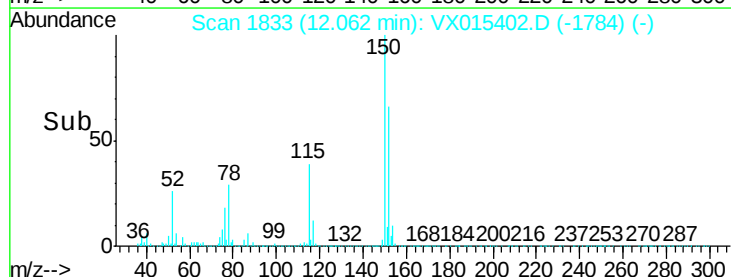
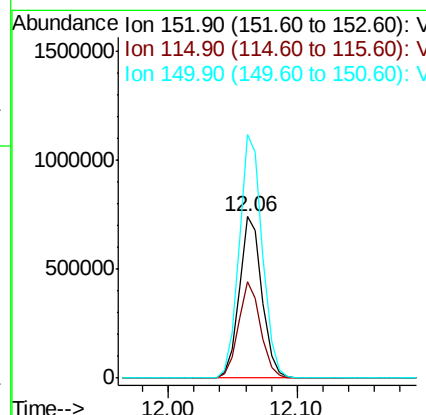
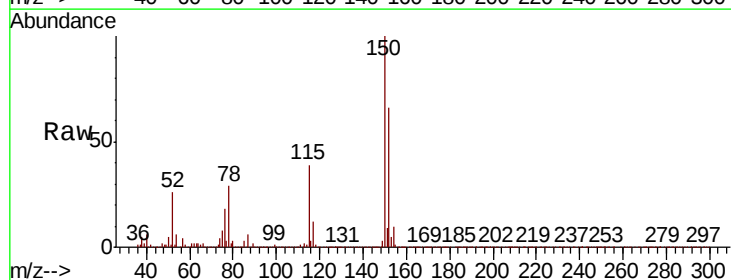
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

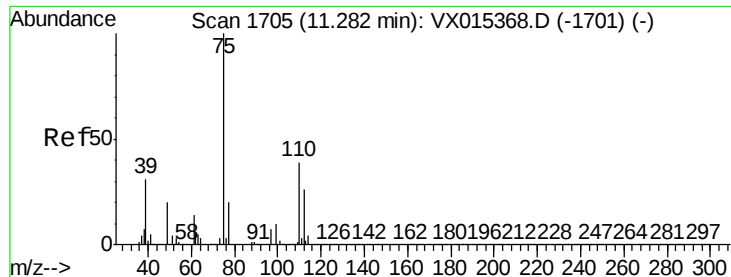
Tot Ion:106 Resp: 5235
Ion Ratio Lower Upper
106 100
91 166.6 163.4 245.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015402.D
Acq: 28 Mar 2020 00:31

Tgt Ion:152 Resp: 902115
Ion Ratio Lower Upper
152 100
115 58.7 39.0 116.9
150 154.6 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 25.801 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampled :

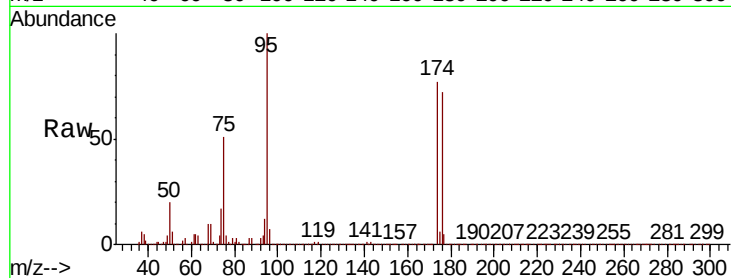
TRIP-BLANK

Tot Ion: 75 Resp: 478644

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

400000

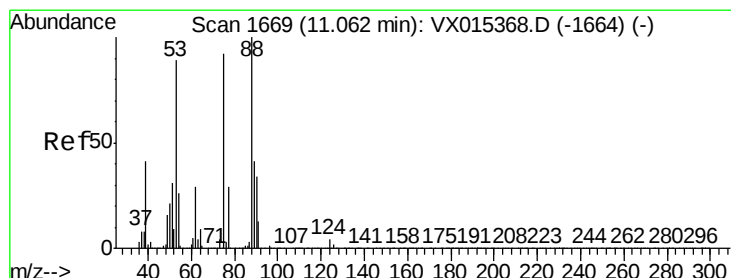
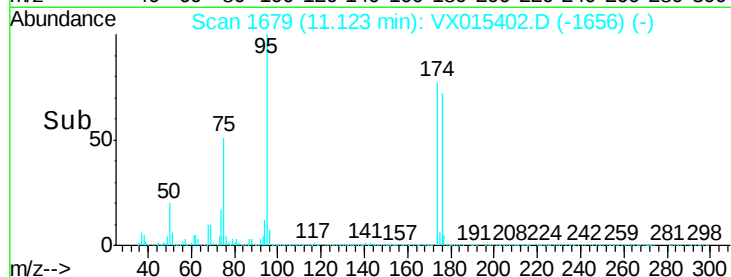
300000

200000

100000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.909 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

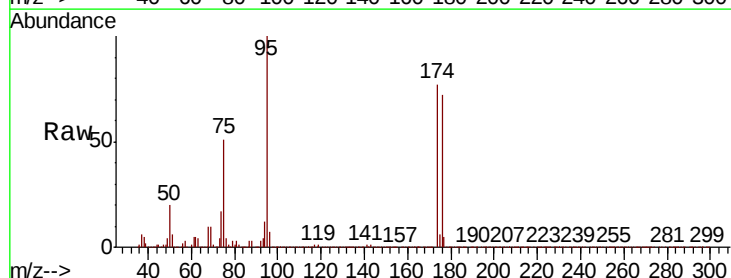
Tgt Ion: 75 Resp: 478644

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#



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

500000

400000

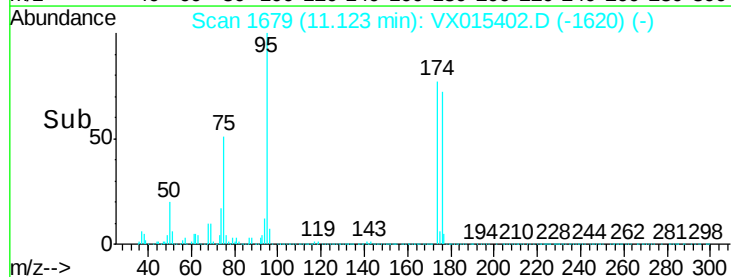
300000

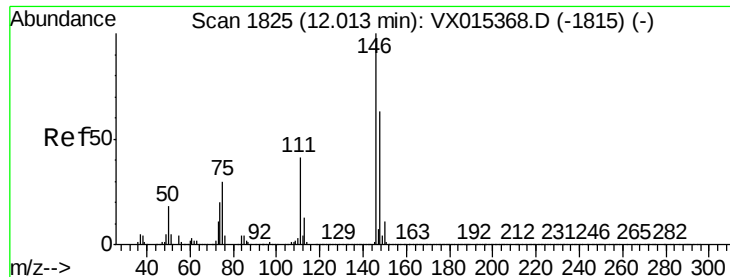
200000

100000

0

Time-->

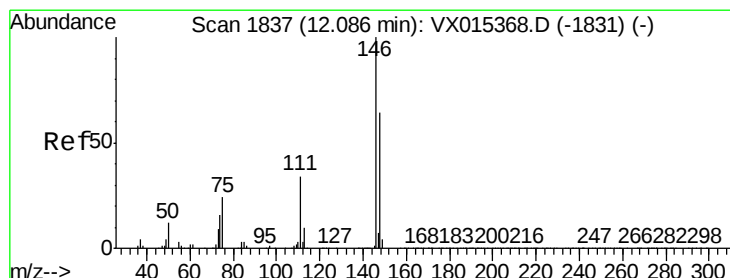
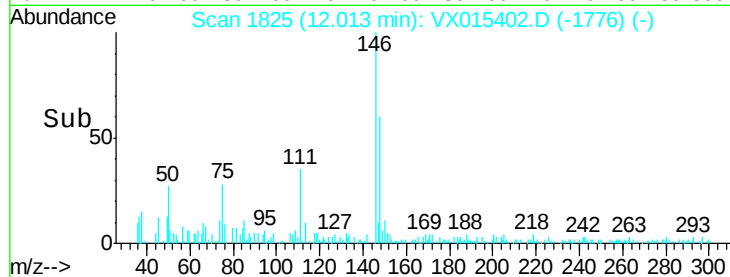
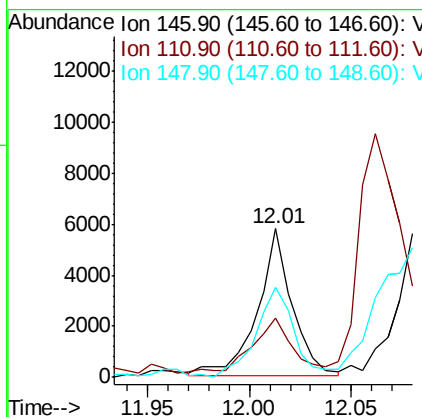
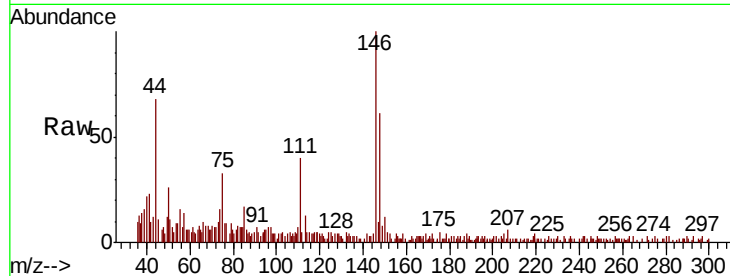




#87
 1,3-Dichlorobenzene
 Concen: 0.242 ug/l
 RT: 12.01 min Scan# 1825
 Delta R.T. -0.00 min
 Lab File: VX015402.D
 Acq: 28 Mar 2020 00:31

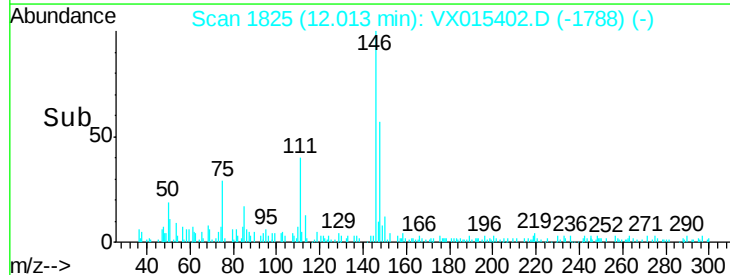
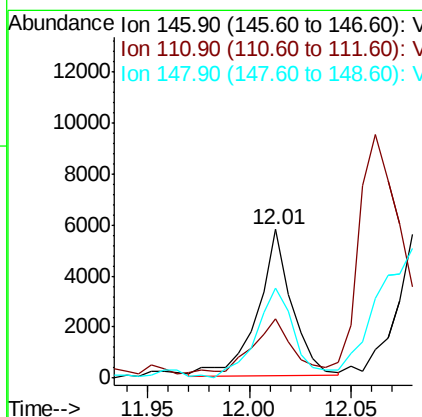
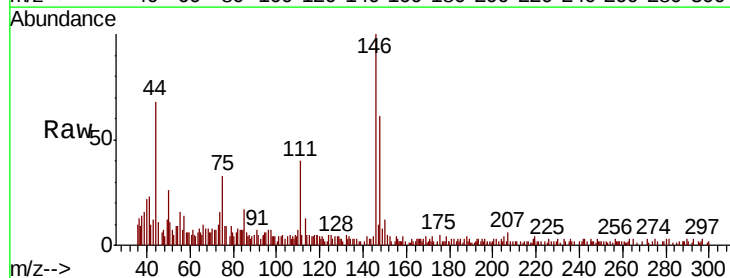
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

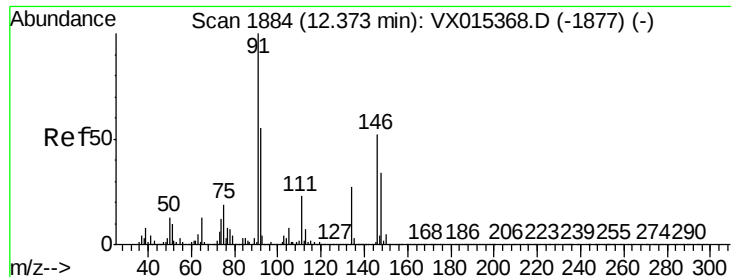
Tot Ion:146 Resp: 6840
 Ion Ratio Lower Upper
 146 100
 111 44.2 20.3 60.9
 148 67.3 31.3 93.9



#88
 1,4-Dichlorobenzene
 Concen: 0.234 ug/l
 RT: 12.01 min Scan# 1825
 Delta R.T. -0.07 min
 Lab File: VX015402.D
 Acq: 28 Mar 2020 00:31

Tgt Ion:146 Resp: 6724
 Ion Ratio Lower Upper
 146 100
 111 45.6 19.1 57.5
 148 68.4 32.4 97.2





#89

n-Butylbenzene

Concen: 0.271 ug/l

RT: 12.37 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

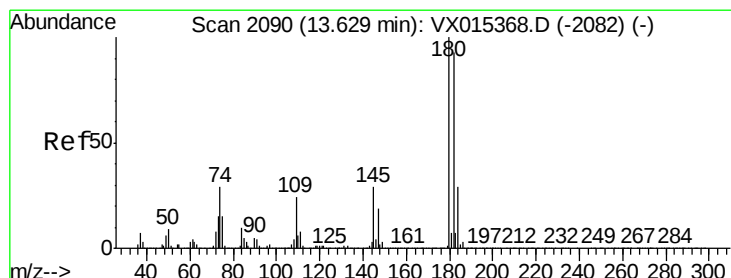
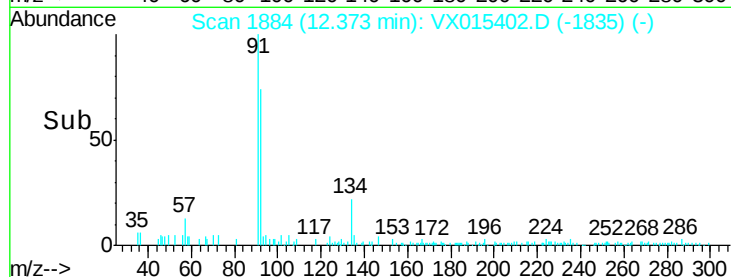
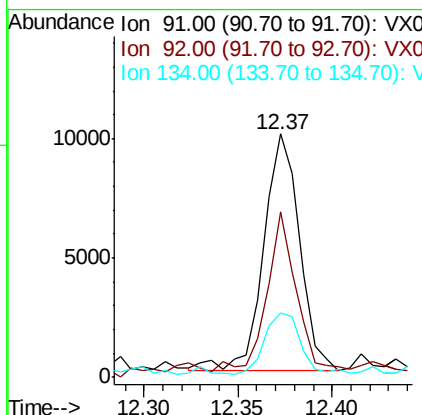
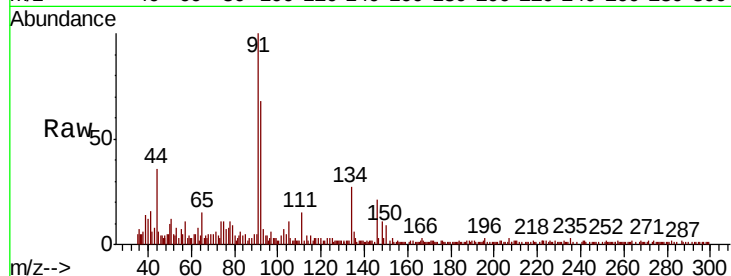
Instrument :

MSVOA_X

ClientSampled :

TRIP-BLANK

Tot Ion:	91	Resp:	12985
Ion	Ratio	Lower	Upper
91	100		
92	61.4	27.2	81.5
134	26.3	13.4	40.2



#93

1,2,4-Trichlorobenzene

Concen: 0.422 ug/l

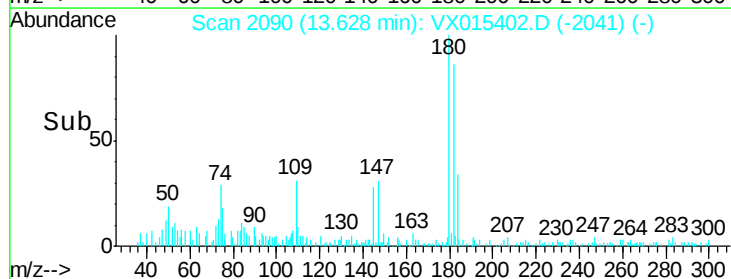
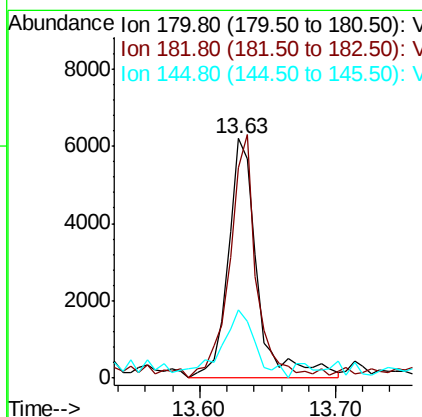
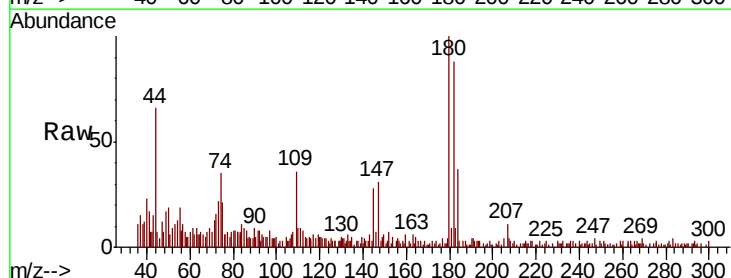
RT: 13.63 min Scan# 2090

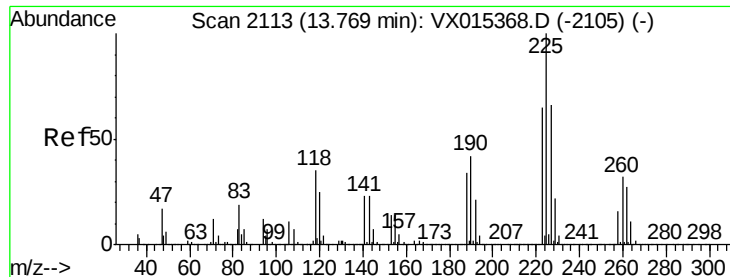
Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Tgt Ion:	180	Resp:	9224
Ion	Ratio	Lower	Upper
180	100		
182	91.8	46.9	140.7
145	33.6	14.9	44.5





#94

Hexachlorobutadiene

Concen: 0.446 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

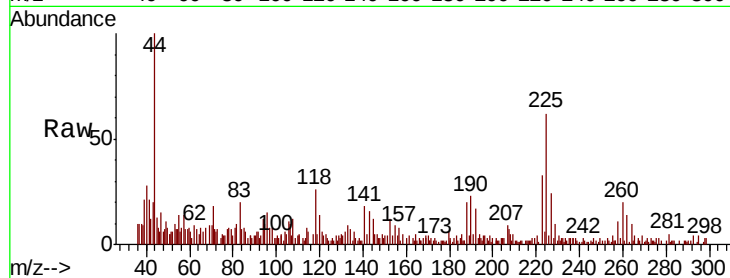
Tot Ion:225 Resp: 4642

Ion Ratio Lower Upper

225 100

223 54.6 31.9 95.7

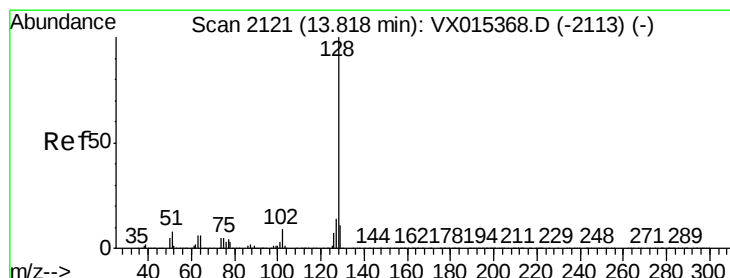
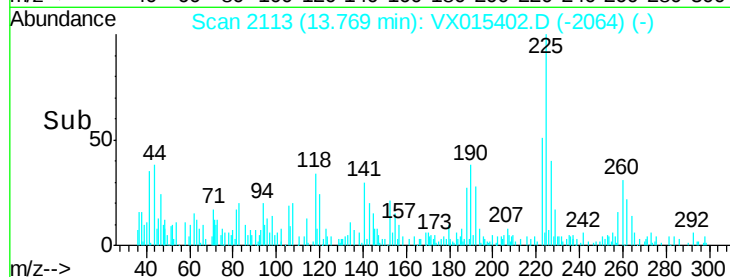
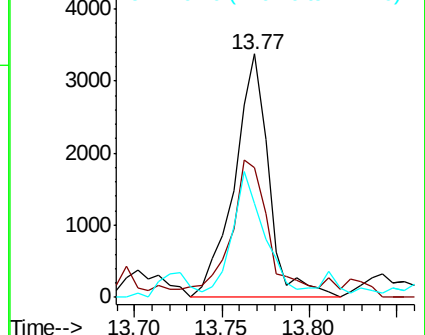
227 43.3 30.4 91.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.233 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. -0.00 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

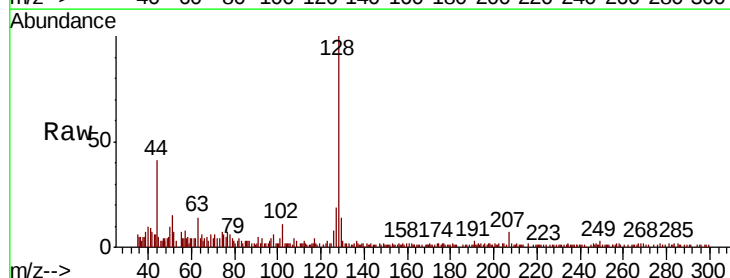
Tgt Ion:128 Resp: 15536

Ion Ratio Lower Upper

128 100

127 20.0 10.6 15.8#

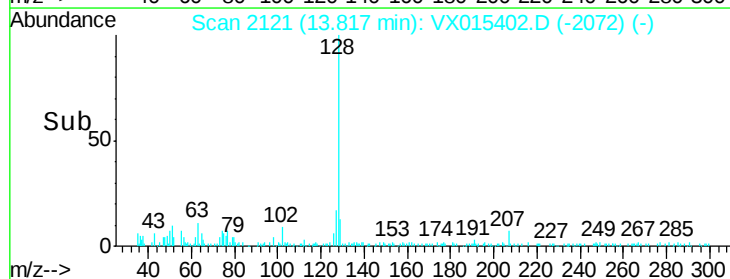
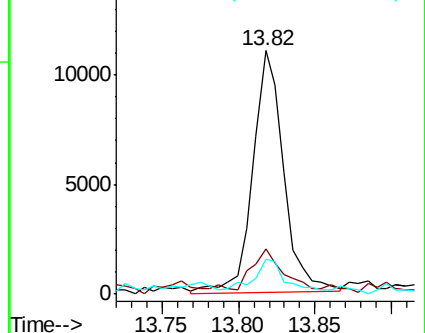
129 11.7 8.8 13.2

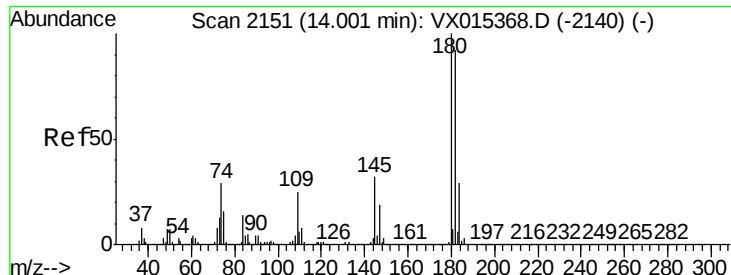


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.264 ug/l

RT: 14.01 min Scan# 2152

Delta R.T. 0.01 min

Lab File: VX015402.D

Acq: 28 Mar 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

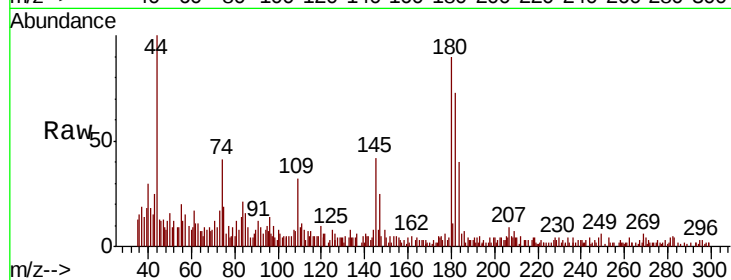
Tot Ion:180 Resp: 5544

Ion Ratio Lower Upper

180 100

182 97.4 46.7 140.0

145 36.7 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

