

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012838.D
 Acq On : 07 Oct 2019 15:13
 Operator : JC/SP
 Sample : K5154-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-103S

Quant Time: Oct 08 11:12:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	303333	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254854	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100143	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	117990	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
35) Dibromofluoromethane	5.49	113	88348	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
50) Toluene-d8	8.71	98	355160	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	11.14	95	122232	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	

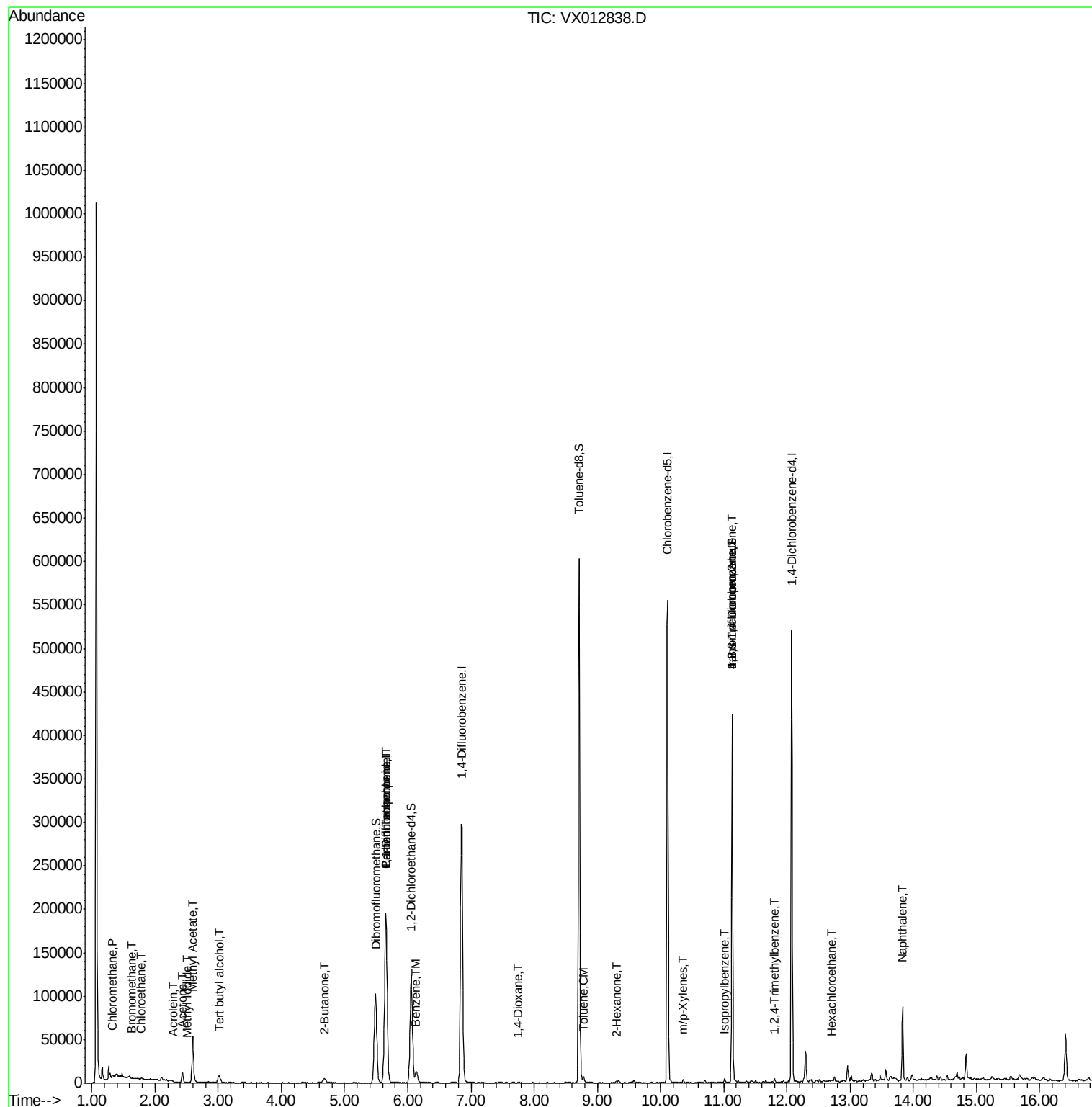
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	887	0.385	ug/l	97
5) Bromomethane	1.64	94	232	0.258	ug/l #	76
6) Chloroethane	1.78	64	1145	0.742	ug/l #	57
10) Methyl Iodide	2.51	142	309	5.088	ug/l #	56
11) Tert butyl alcohol	3.02	59	7861	12.115	ug/l #	90
13) Acrolein	2.29	56	38	10.334	ug/l #	15
16) Acetone	2.43	43	13140	9.551	ug/l	90
18) Methyl Acetate	2.59	43	13226	4.083	ug/l #	54
25) 2-Butanone	4.69	43	1025	0.520	ug/l #	51
36) 1,1-Dichloropropene	5.65	75	14492	4.957	ug/l #	48
38) Carbon Tetrachloride	5.65	117	18291	6.158	ug/l #	17
40) Benzene	6.14	78	15079	1.753	ug/l	99
49) 1,4-Dioxane	7.74	88	38	0.611	ug/l #	1
52) Toluene	8.78	92	2223	0.411	ug/l	89
59) 2-Hexanone	9.30	43	1299	0.481	ug/l	72
68) m/p-Xylenes	10.36	106	968	0.265	ug/l #	69
73) Isopropylbenzene	11.02	105	2530	0.310	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	59565	22.486	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	59565	64.439	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.80	105	2222	0.322	ug/l	99
90) Hexachloroethane	12.70	117	418	0.339	ug/l #	17
95) Naphthalene	13.83	128	50562	6.890	ug/l	99

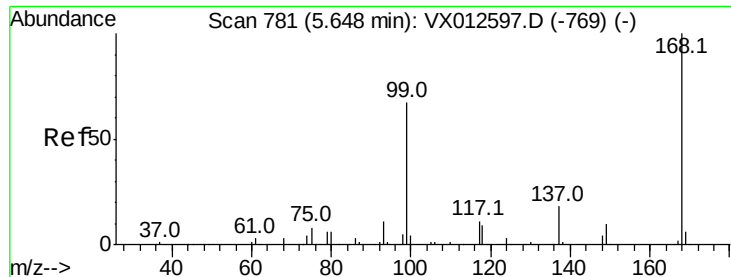
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

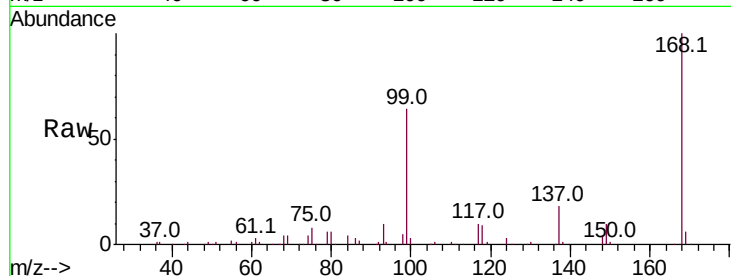
MW-103S

Tot Ion:168 Resp: 178368

Ion Ratio Lower Upper

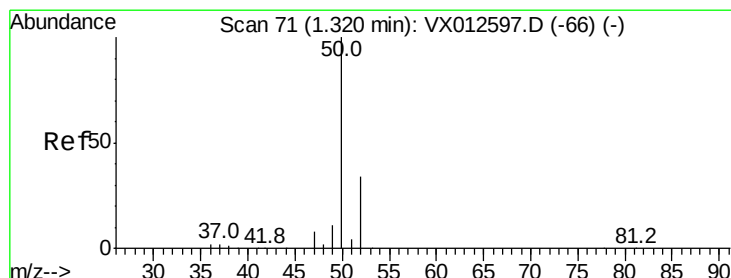
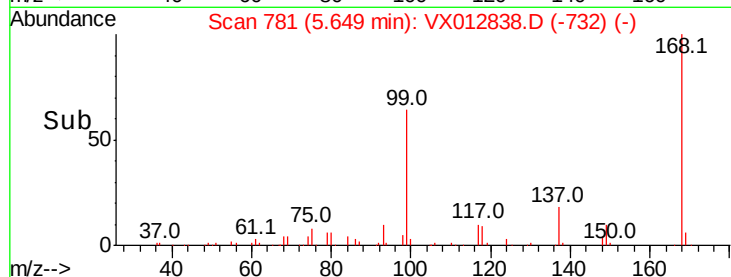
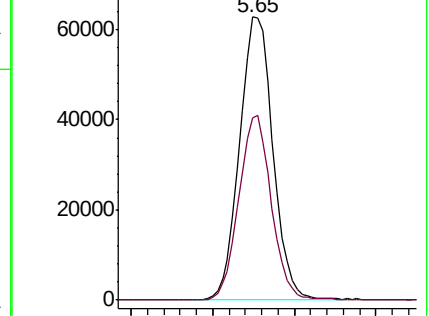
168 100

99 64.5 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.385 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012838.D

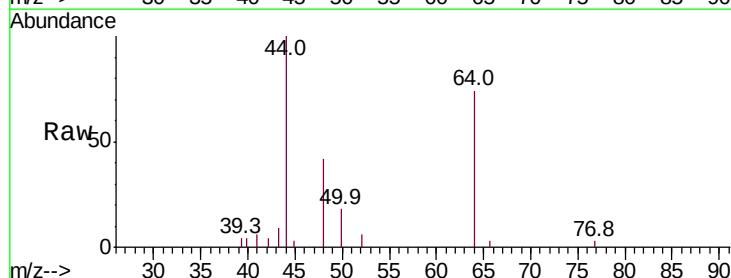
Acq: 07 Oct 2019 15:13

Tgt Ion: 50 Resp: 887

Ion Ratio Lower Upper

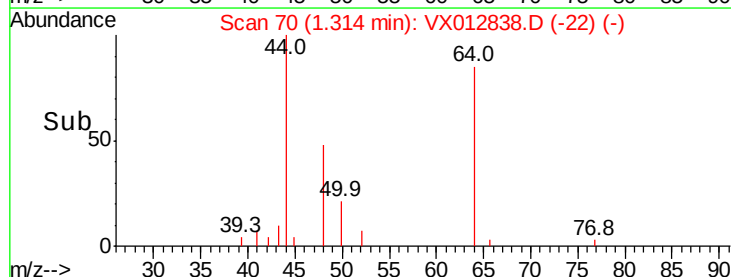
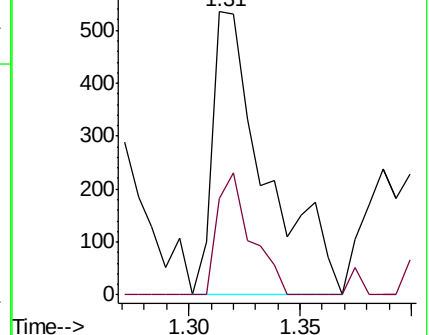
50 100

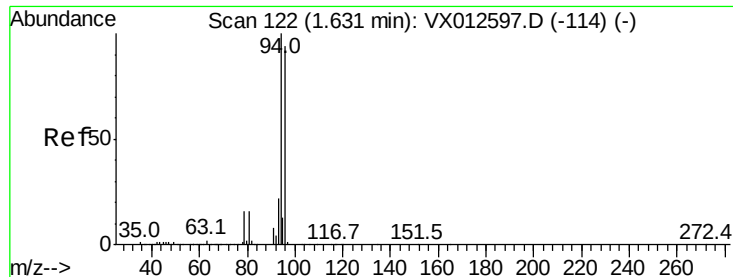
52 34.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.258 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

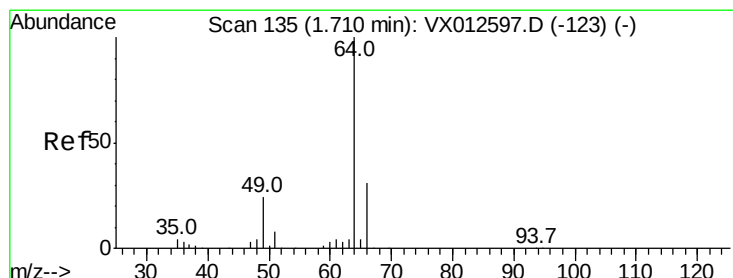
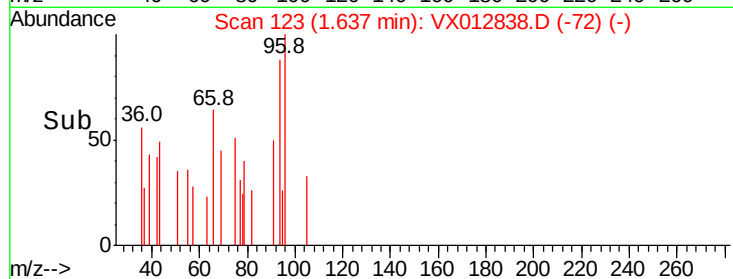
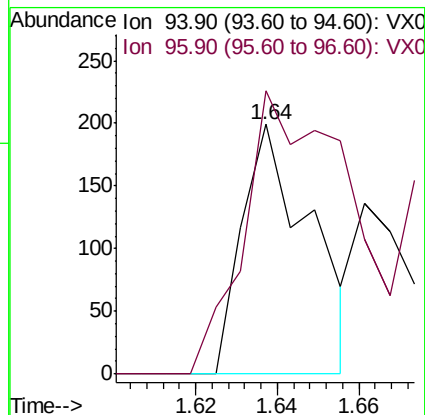
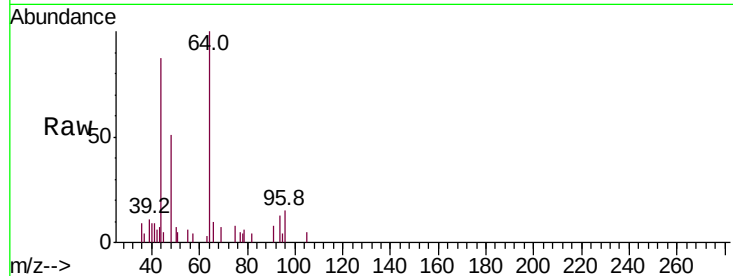
MW-103S

Tot Ion: 94 Resp: 232

Ion Ratio Lower Upper

94 100

96 113.6 72.8 109.2#



#6

Chloroethane

Concen: 0.742 ug/l

RT: 1.78 min Scan# 146

Delta R.T. 0.07 min

Lab File: VX012838.D

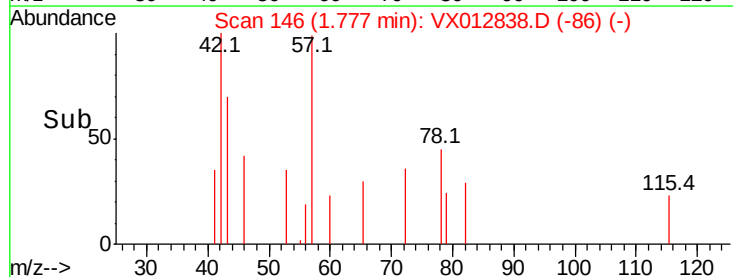
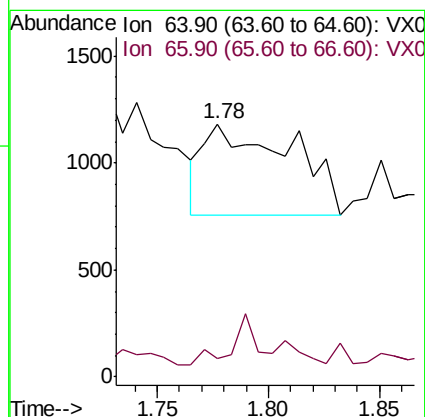
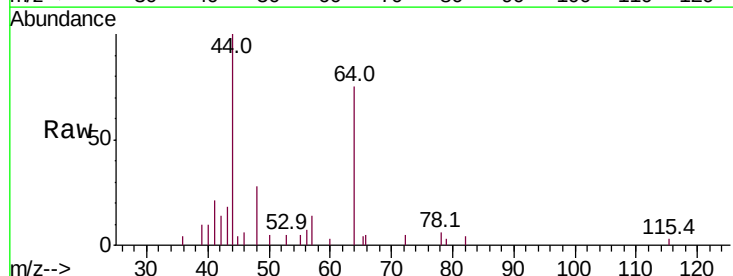
Acq: 07 Oct 2019 15:13

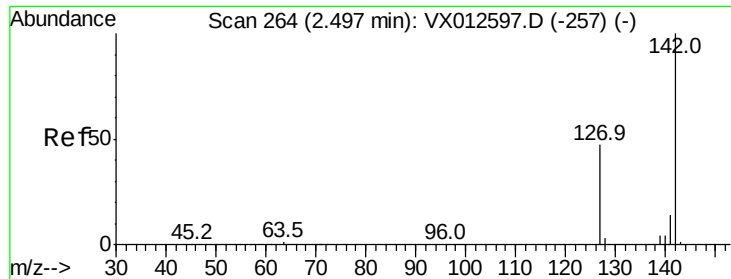
Tgt Ion: 64 Resp: 1145

Ion Ratio Lower Upper

64 100

66 6.8 24.0 36.0#

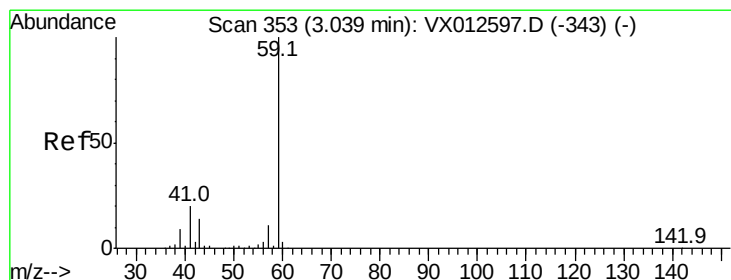
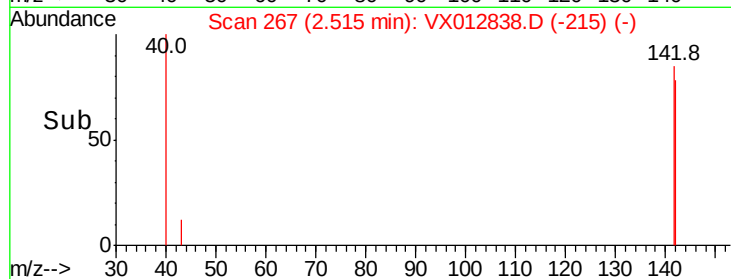
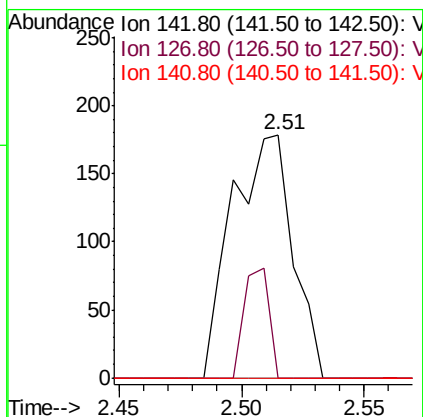
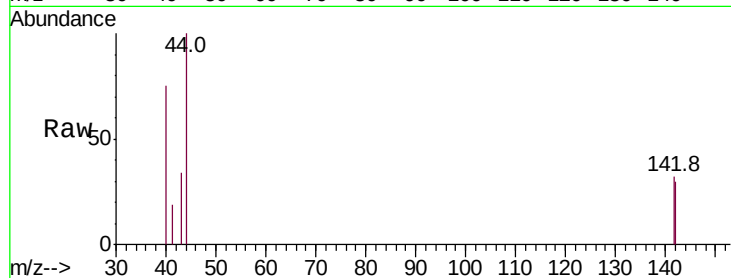




#10
Methvl Iodide
Concen: 5.088 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.02 min
Lab File: VX012838.D
Acq: 07 Oct 2019 15:13

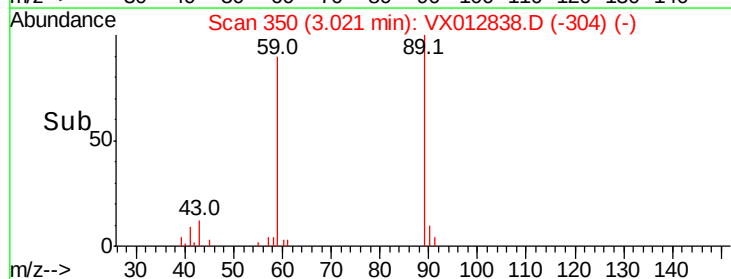
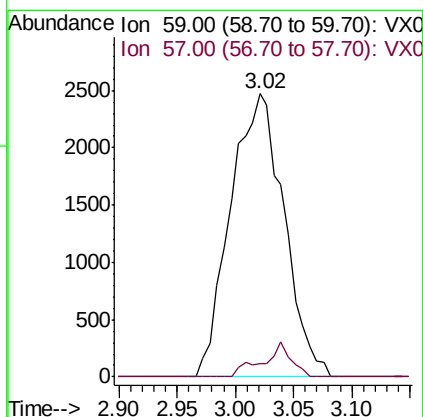
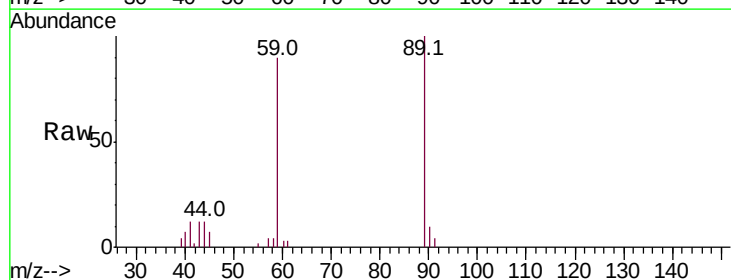
Instrument :
MSVOA_X
ClientSampleId :
MW-103S

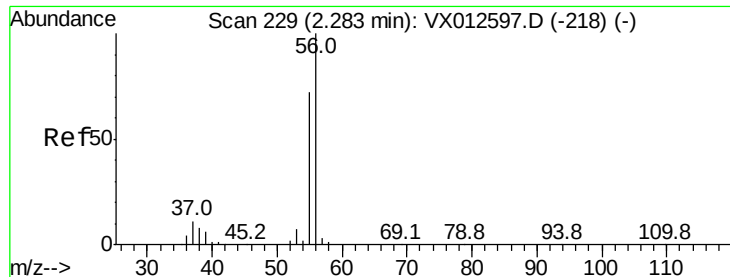
Tot Ion:142 Resp: 309
Ion Ratio Lower Upper
142 100
127 18.4 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 12.115 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX012838.D
Acq: 07 Oct 2019 15:13

Tgt Ion: 59 Resp: 7861
Ion Ratio Lower Upper
59 100
57 6.5 8.3 12.5#





#13

Acrolein

Concen: 10.334 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

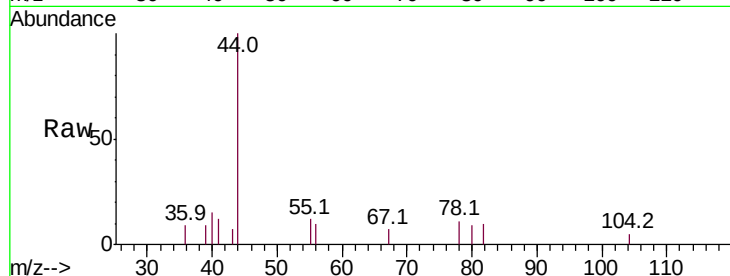
MW-103S

Tot Ion: 56 Resp: 38

Ion Ratio Lower Upper

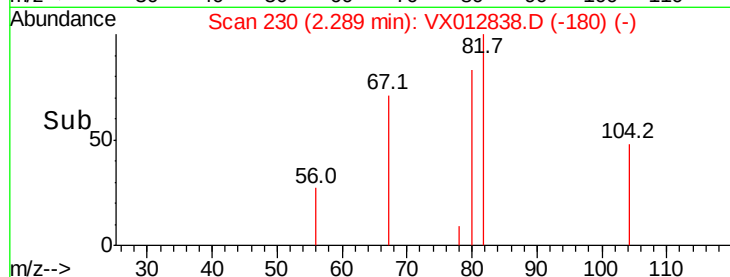
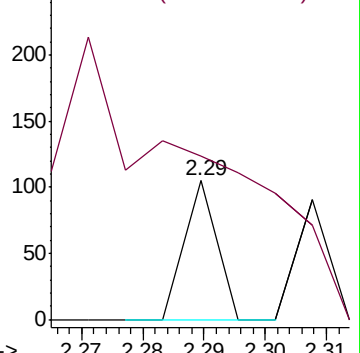
56 100

55 0.0 55.8 83.8#

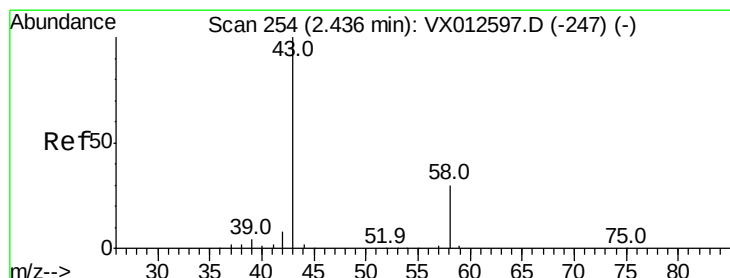


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 9.551 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012838.D

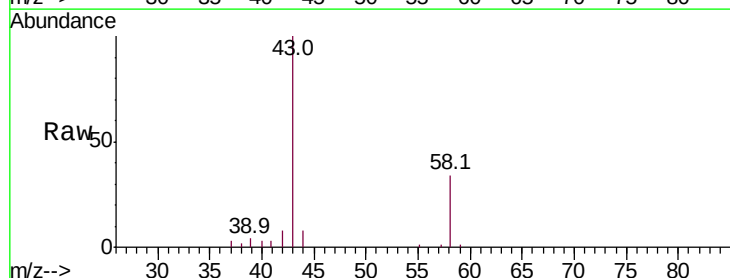
Acq: 07 Oct 2019 15:13

Tgt Ion: 43 Resp: 13140

Ion Ratio Lower Upper

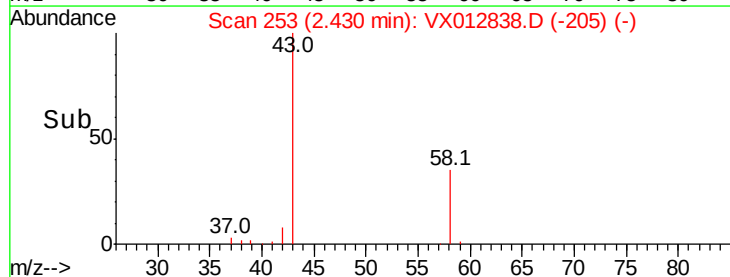
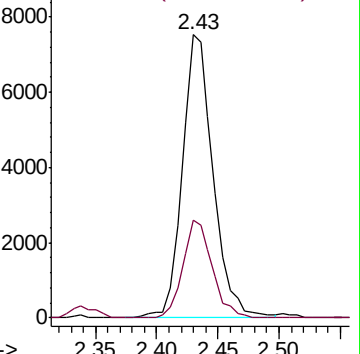
43 100

58 34.3 23.3 34.9

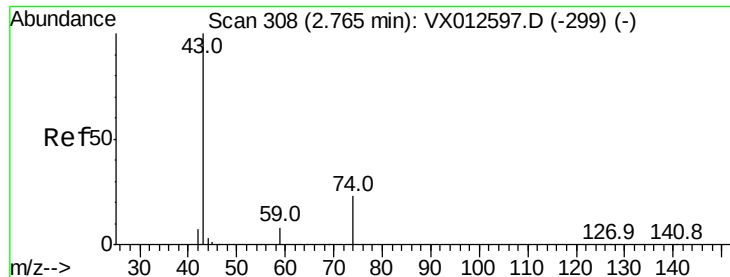


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



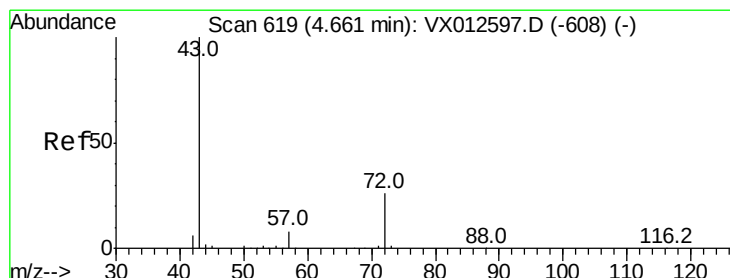
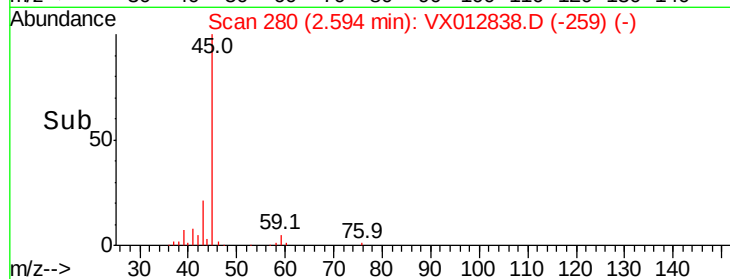
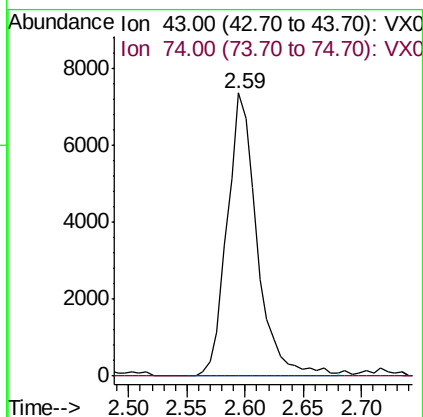
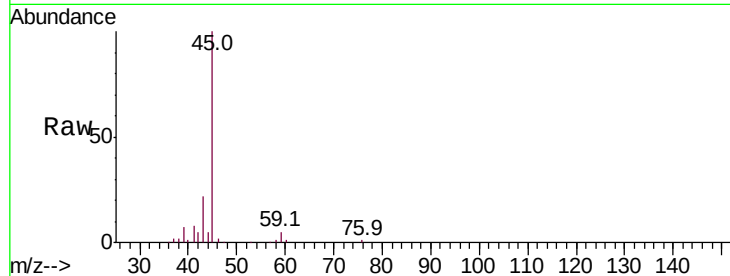
Time-->



#18
Methvl Acetate
Concen: 4.083 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012838.D
Acq: 07 Oct 2019 15:13

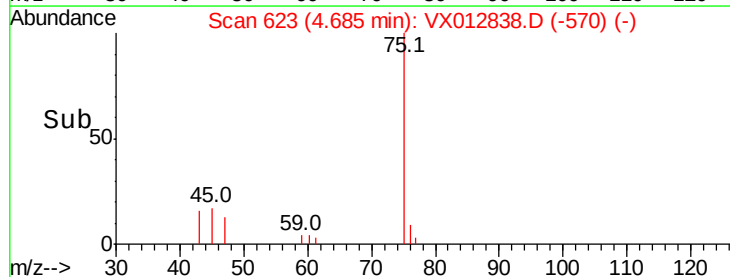
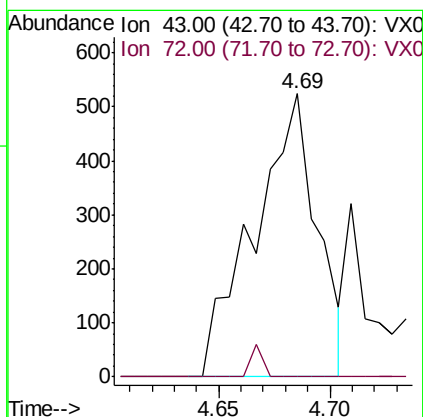
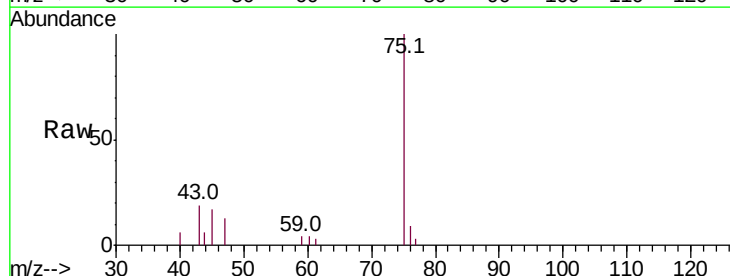
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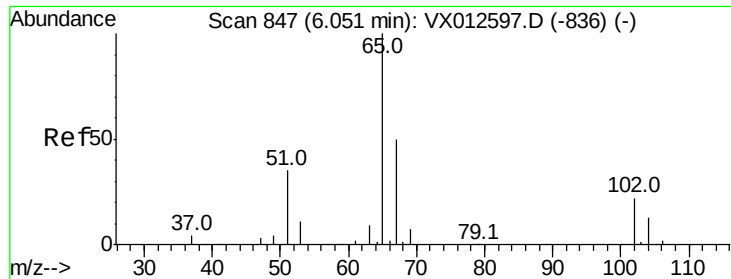
Tot Ion: 43 Resp: 13226
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#25
2-Butanone
Concen: 0.520 ug/l
RT: 4.69 min Scan# 623
Delta R.T. 0.02 min
Lab File: VX012838.D
Acq: 07 Oct 2019 15:13

Tgt Ion: 43 Resp: 1025
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#

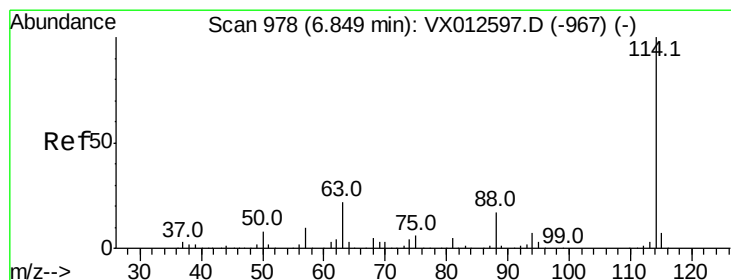
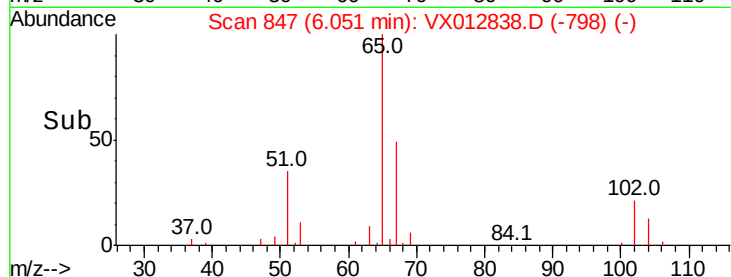
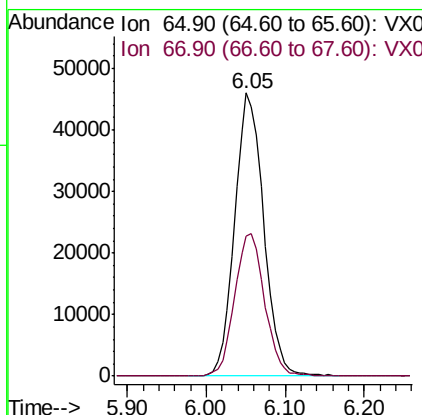
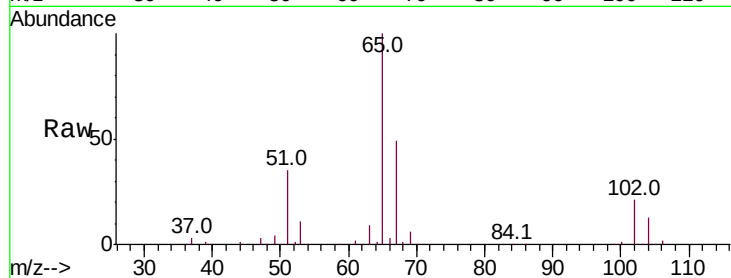




#33
 1,2-Dichloroethane-d4
 Concen: 45.426 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012838.D
 Acq: 07 Oct 2019 15:13

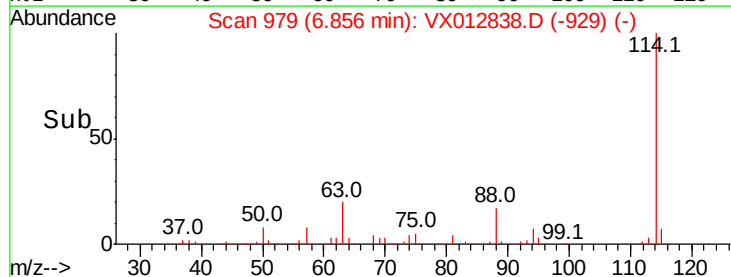
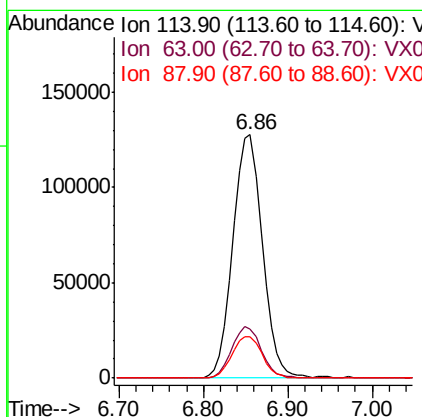
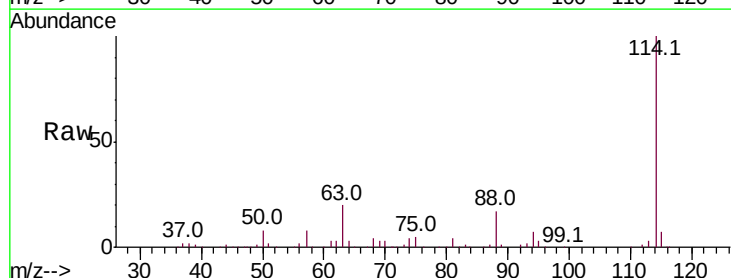
Instrument :
 MSVOA_X
 ClientSampled :
 MW-103S

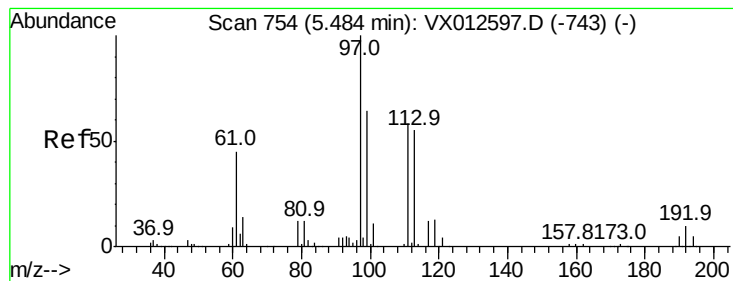
Tot Ion: 65 Resp: 117990
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX012838.D
 Acq: 07 Oct 2019 15:13

Tgt Ion: 114 Resp: 303333
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 43.2
 88 17.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.906 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MW-103S

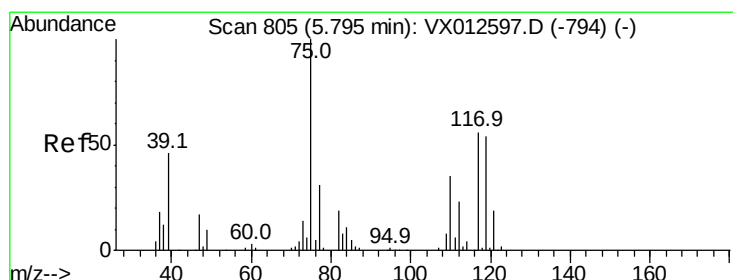
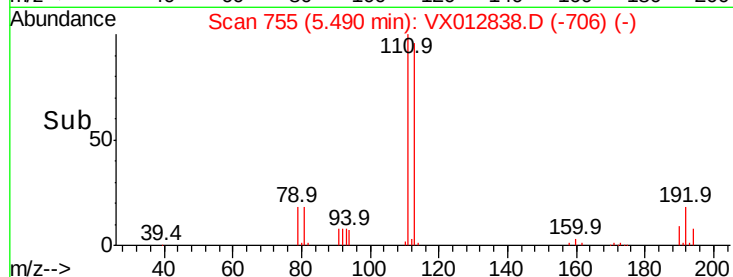
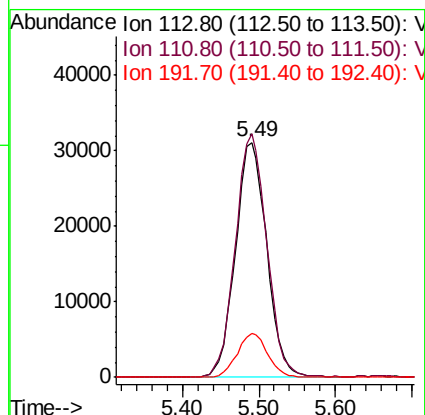
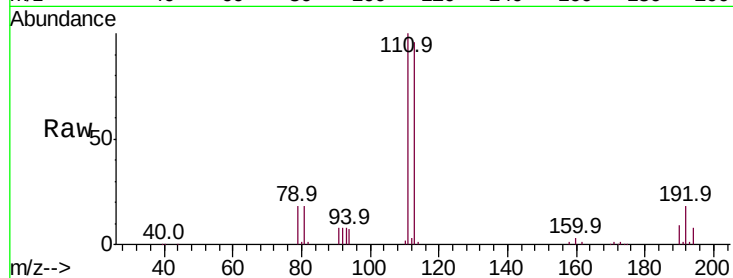
Tot Ion:113 Resp: 88348

Ion Ratio Lower Upper

113 100

111 104.2 83.4 125.2

192 18.3 14.4 21.6



#36

1,1-Dichloropropene

Concen: 4.957 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

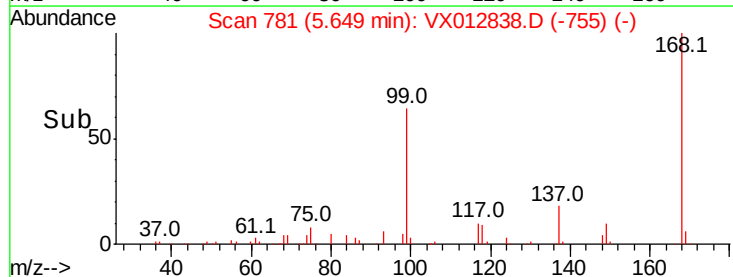
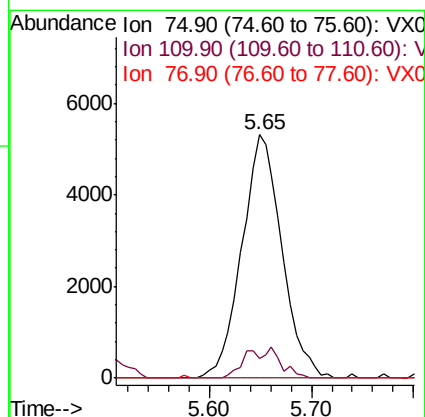
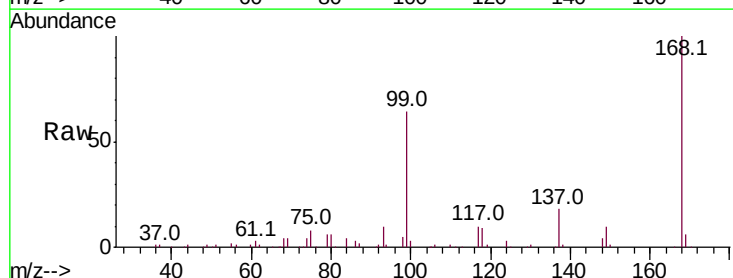
Tgt Ion: 75 Resp: 14492

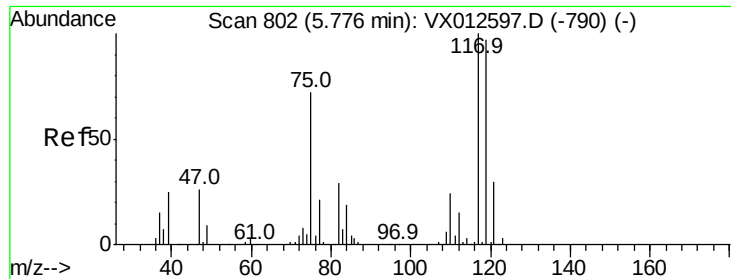
Ion Ratio Lower Upper

75 100

110 5.3 16.7 50.0#

77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.158 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MW-103S

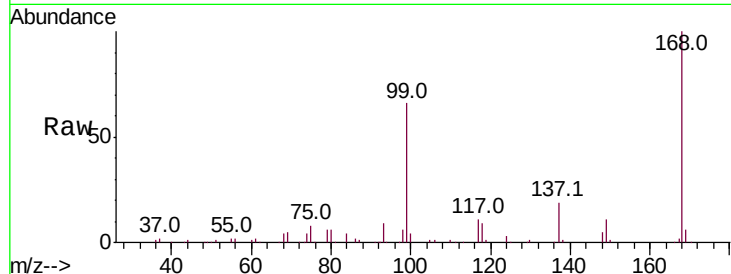
Tot Ion:117 Resp: 18291

Ion Ratio Lower Upper

117 100

119 5.2 75.7 113.5#

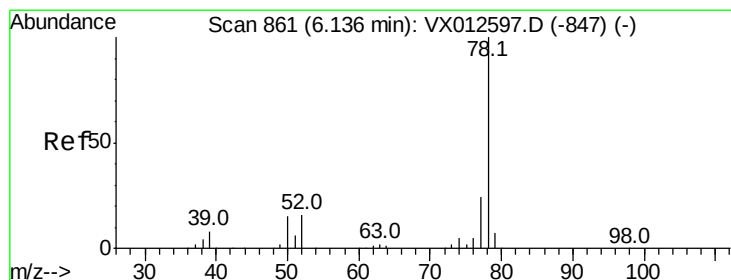
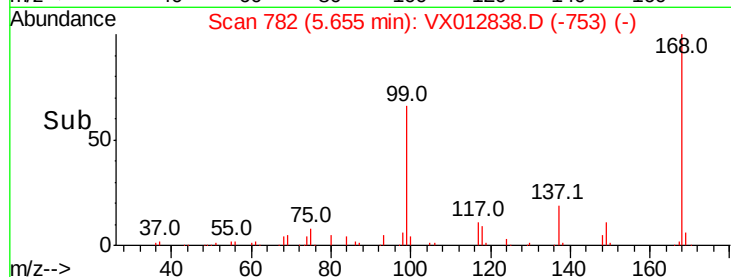
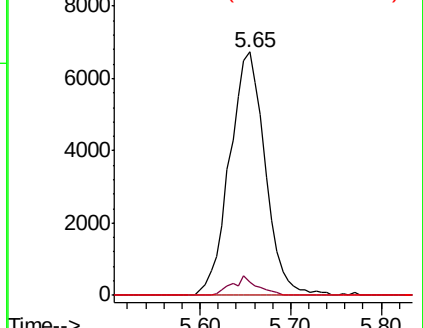
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 1.753 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX012838.D

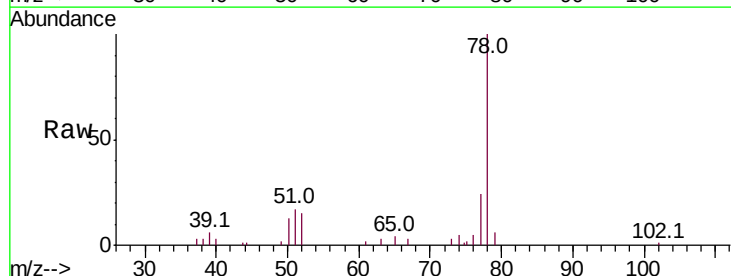
Acq: 07 Oct 2019 15:13

Tgt Ion: 78 Resp: 15079

Ion Ratio Lower Upper

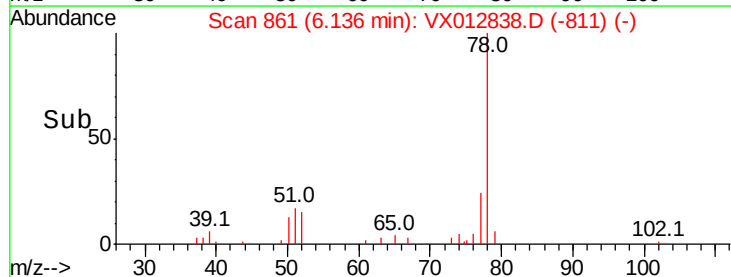
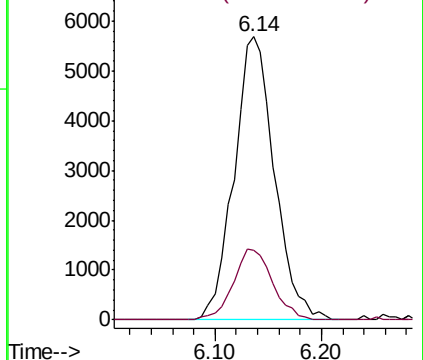
78 100

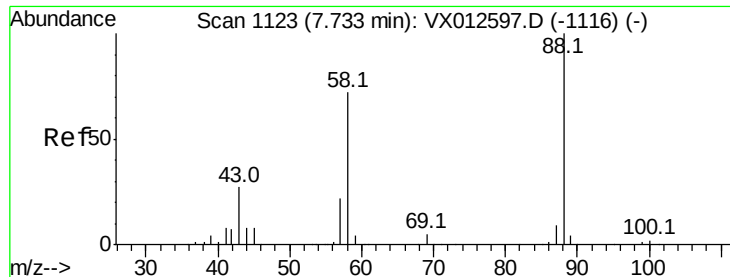
77 24.5 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: 0.611 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MW-103S

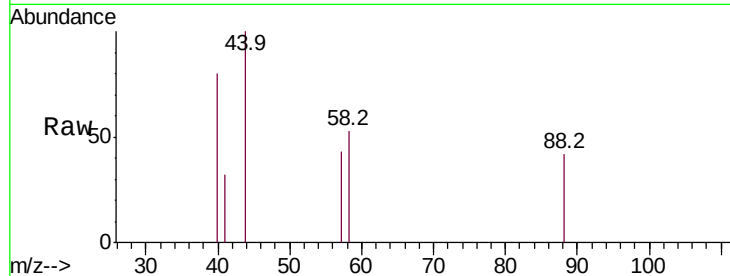
Tot Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 0.0 29.4 44.0#

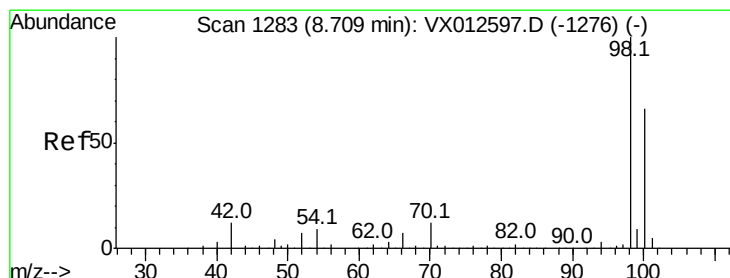
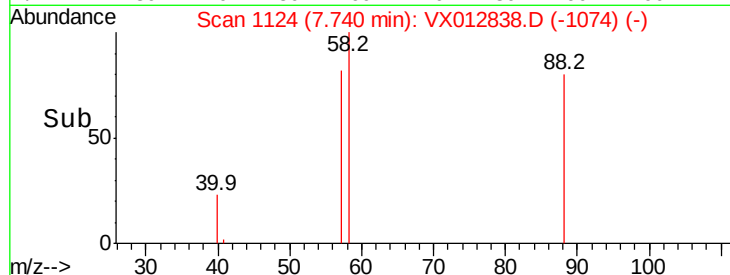
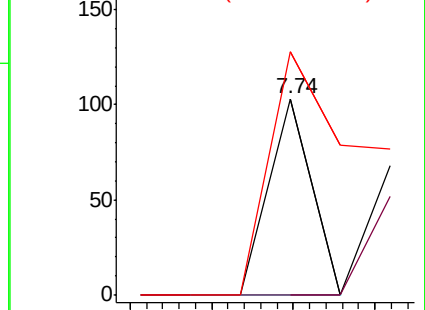
58 273.7 57.5 86.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.052 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012838.D

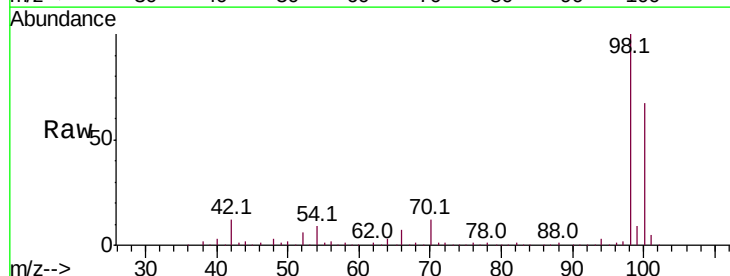
Acq: 07 Oct 2019 15:13

Tgt Ion: 98 Resp: 355160

Ion Ratio Lower Upper

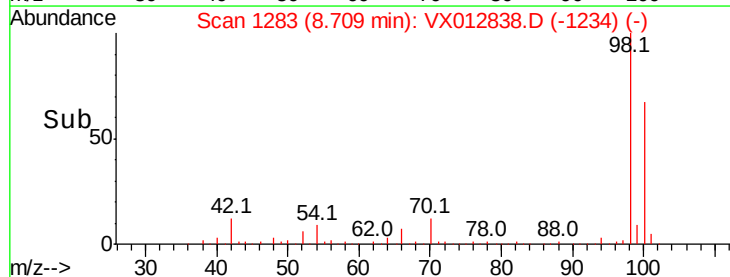
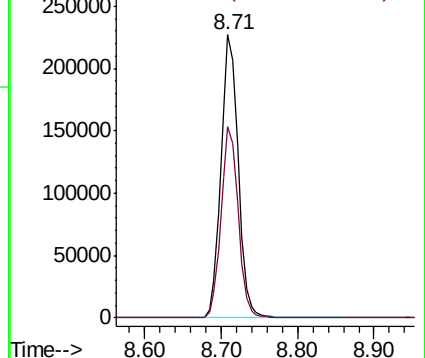
98 100

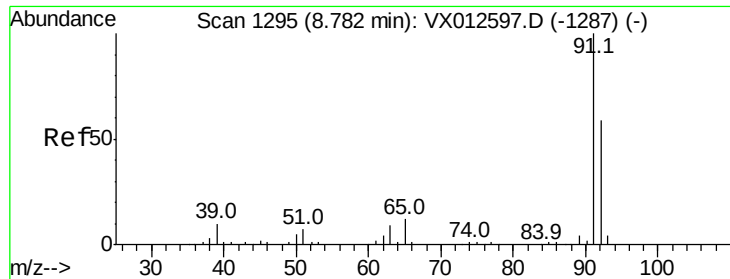
100 67.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.411 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

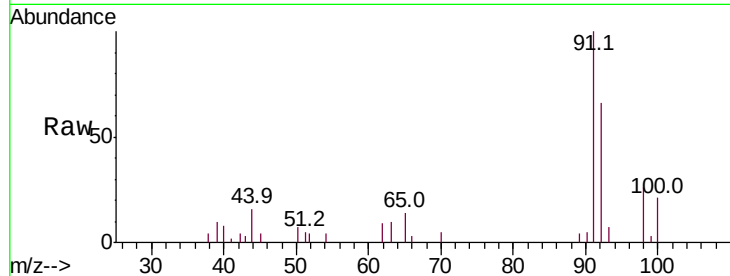
MW-103S

Tot Ion: 92 Resp: 2223

Ion Ratio Lower Upper

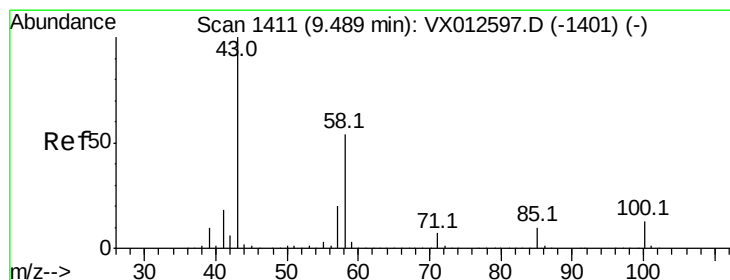
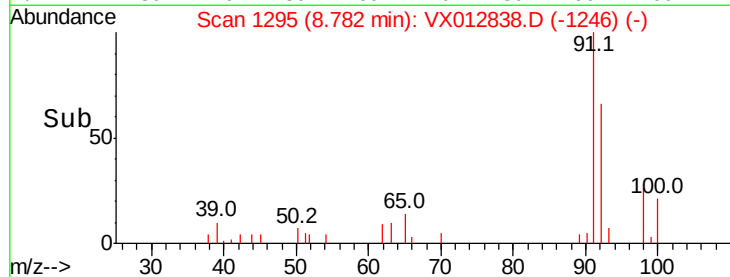
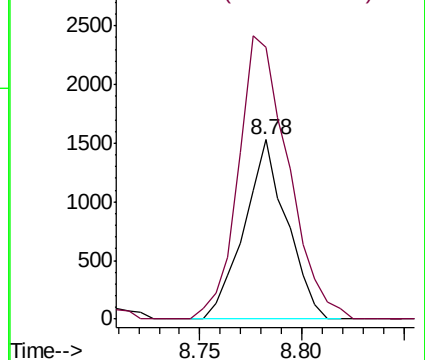
92 100

91 184.1 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.481 ug/l

RT: 9.30 min Scan# 1380

Delta R.T. -0.19 min

Lab File: VX012838.D

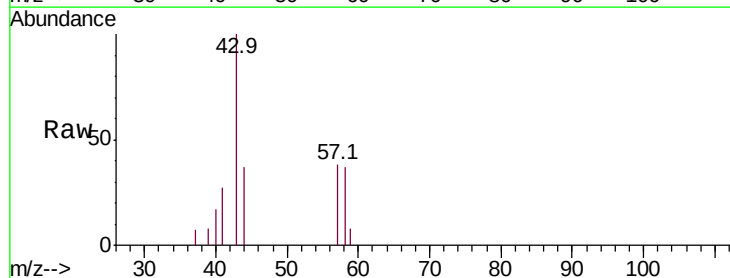
Acq: 07 Oct 2019 15:13

Tgt Ion: 43 Resp: 1299

Ion Ratio Lower Upper

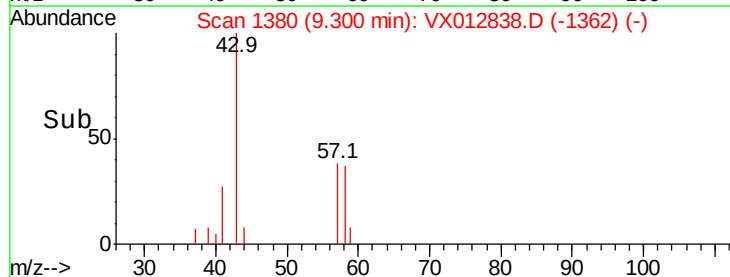
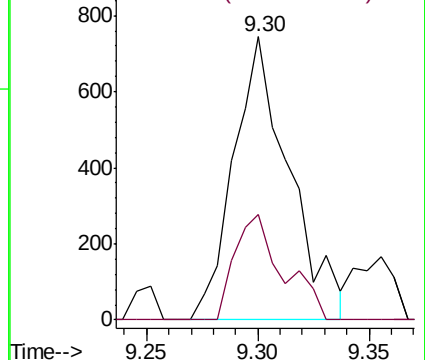
43 100

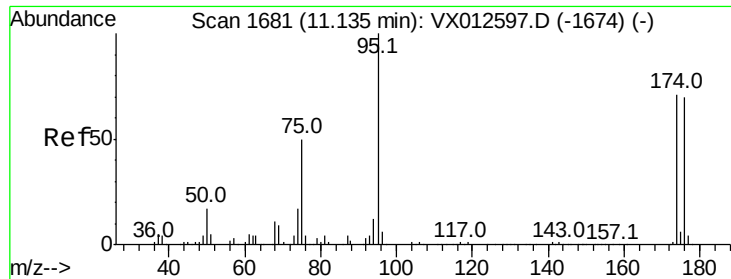
58 31.9 25.7 77.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

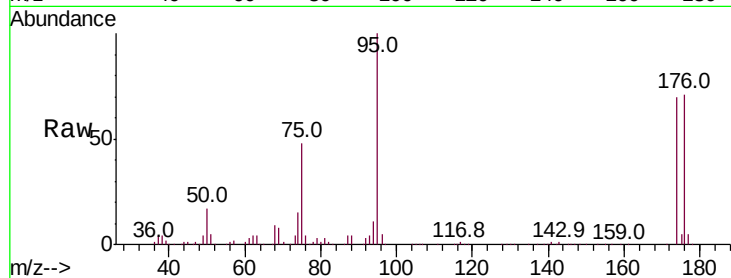




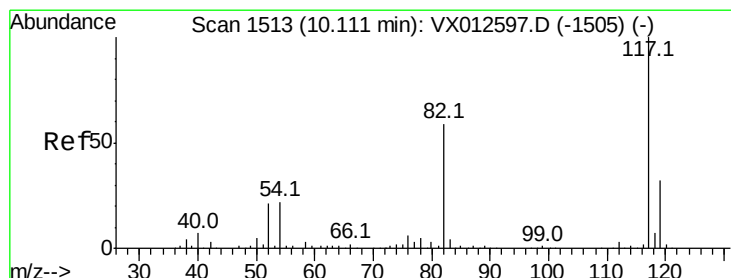
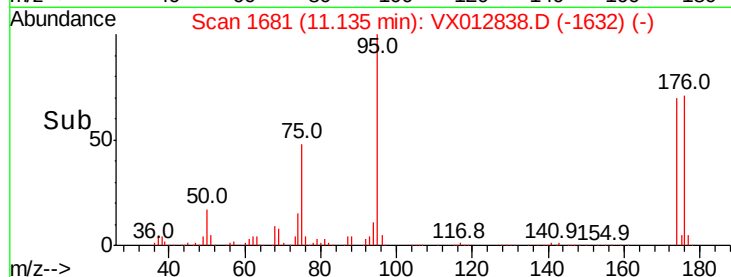
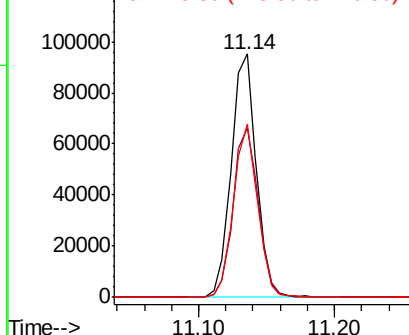
#62
 4-Bromofluorobenzene
 Concen: 44.684 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VX012838.D
 Acq: 07 Oct 2019 15:13

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-103S

Tot Ion: 95 Resp: 122232
 Ion Ratio Lower Upper
 95 100
 174 70.0 0.0 140.0
 176 68.7 0.0 135.4

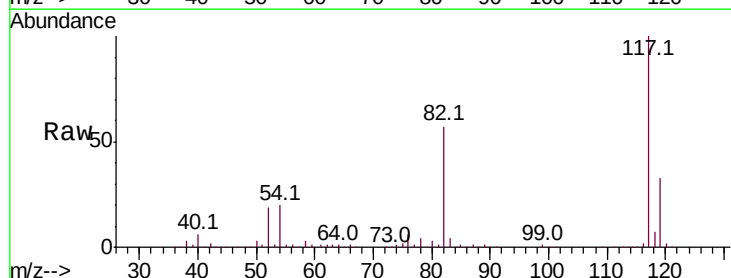


Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

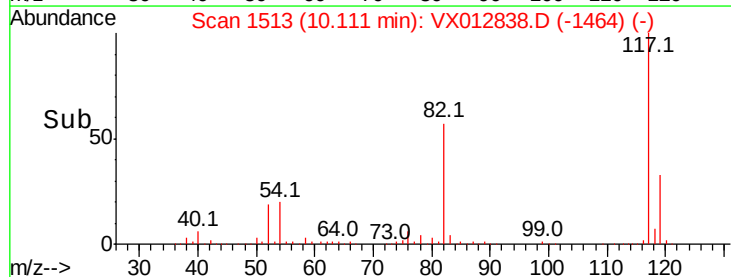
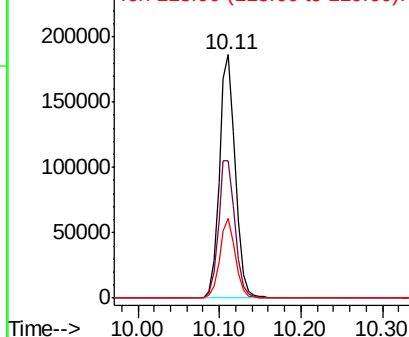


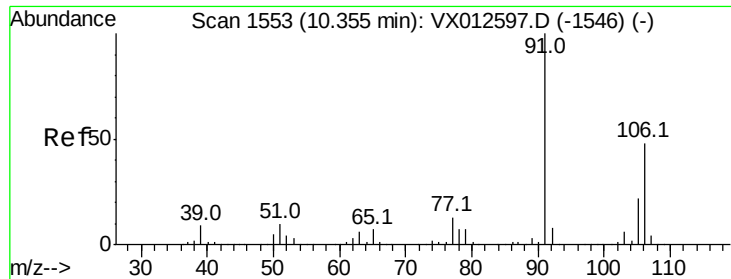
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.11 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VX012838.D
 Acq: 07 Oct 2019 15:13

Tgt Ion: 117 Resp: 254854
 Ion Ratio Lower Upper
 117 100
 82 56.7 45.9 68.9
 119 32.6 25.3 37.9



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: 0.265 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

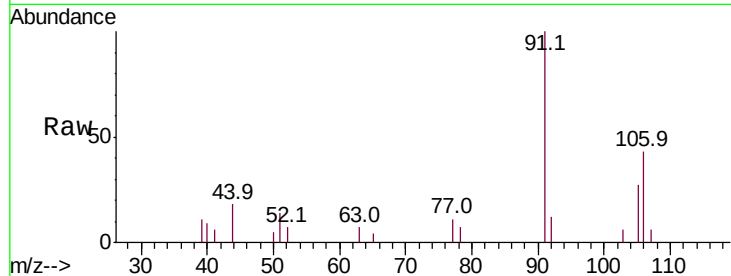
MW-103S

Tot Ion:106 Resp: 968

Ion Ratio Lower Upper

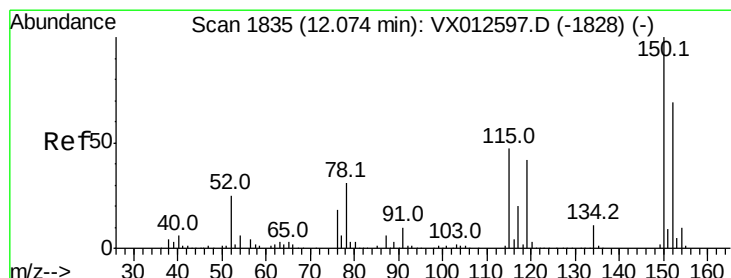
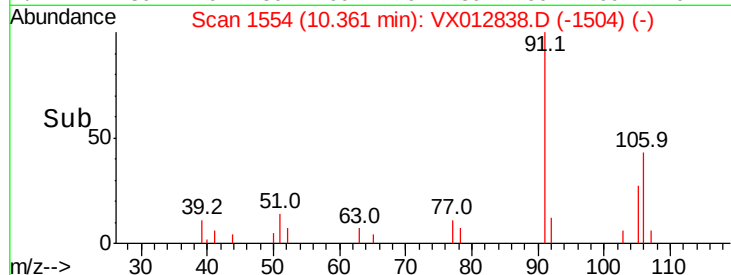
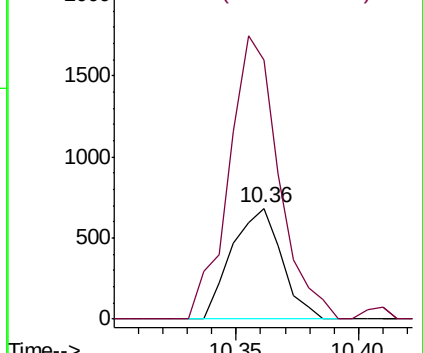
106 100

91 255.8 166.6 250.0#



Abundance Ion 106.00 (105.70 to 106.70): V

2000 Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

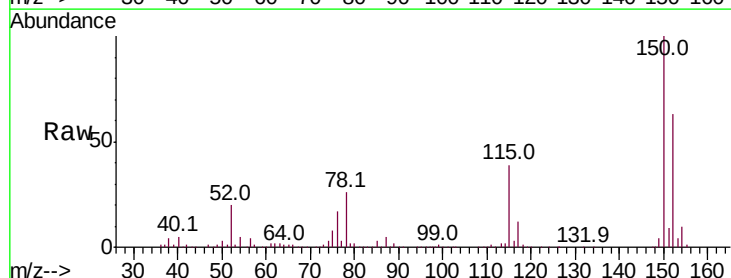
Tgt Ion:152 Resp: 100143

Ion Ratio Lower Upper

152 100

115 63.8 44.1 132.3

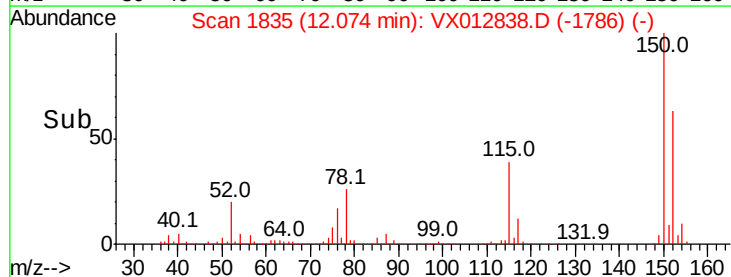
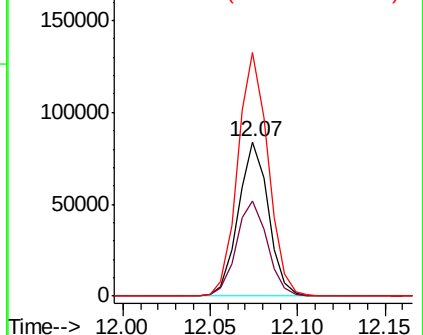
150 159.7 0.0 343.8

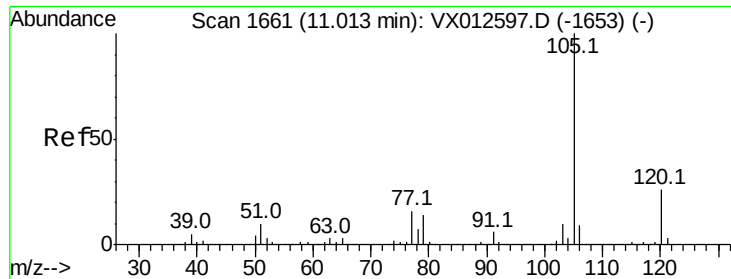


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.310 ug/l

RT: 11.02 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

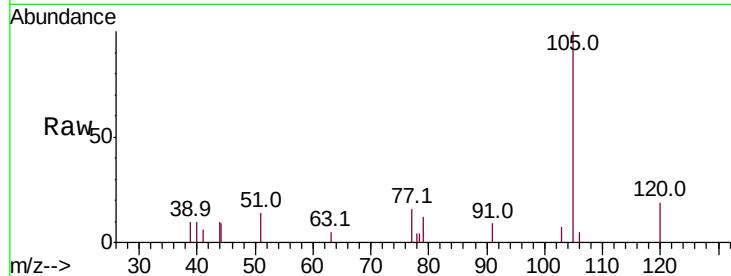
MW-103S

Tot Ion:105 Resp: 2530

Ion Ratio Lower Upper

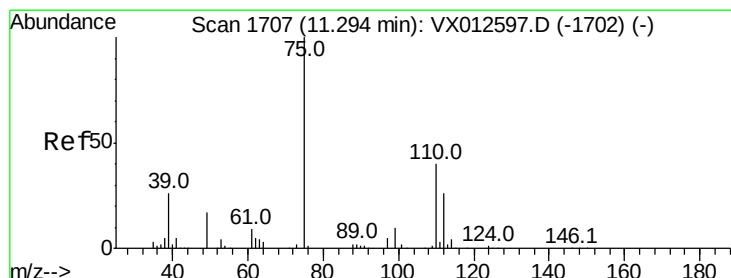
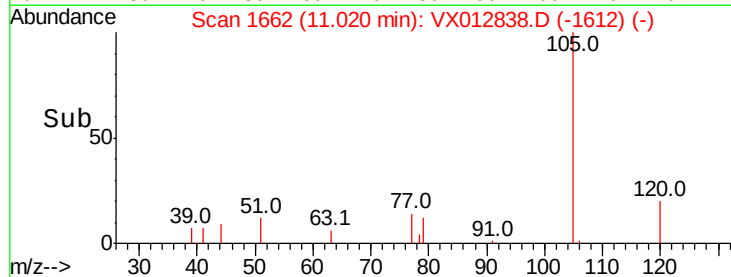
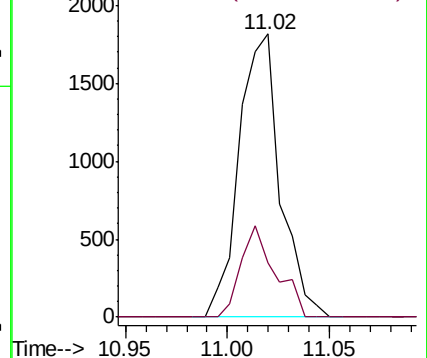
105 100

120 27.0 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 22.486 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012838.D

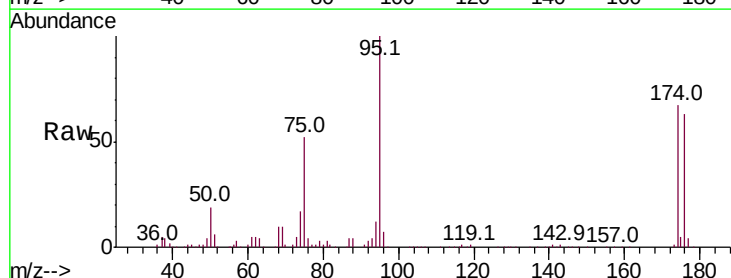
Acq: 07 Oct 2019 15:13

Tgt Ion: 75 Resp: 59565

Ion Ratio Lower Upper

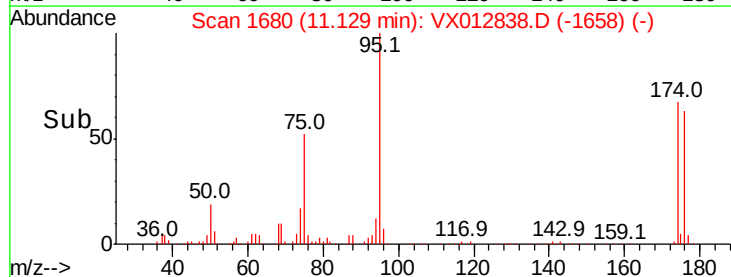
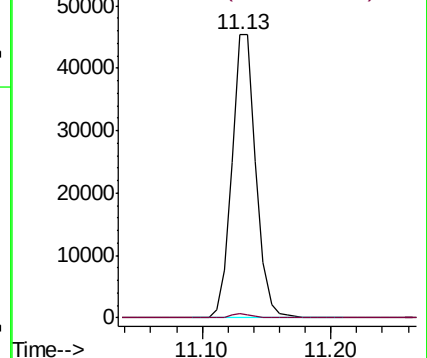
75 100

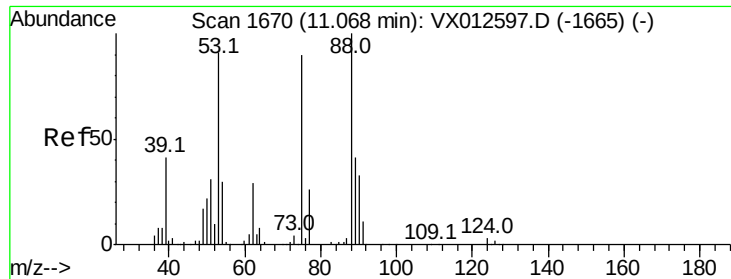
77 1.3 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.439 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MW-103S

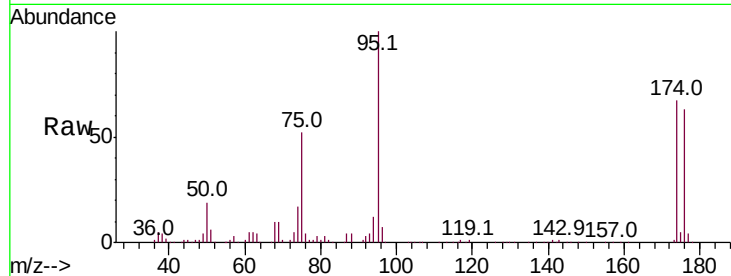
Tot Ion: 75 Resp: 59565

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

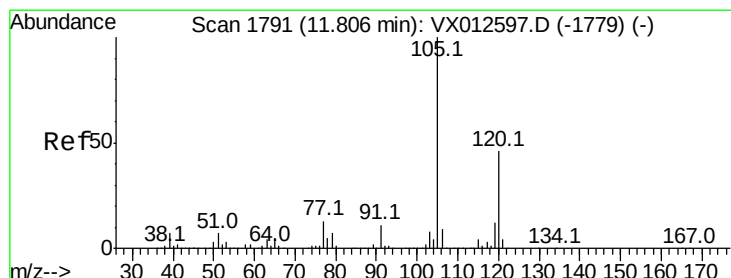
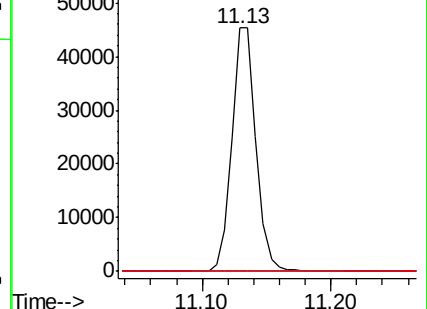
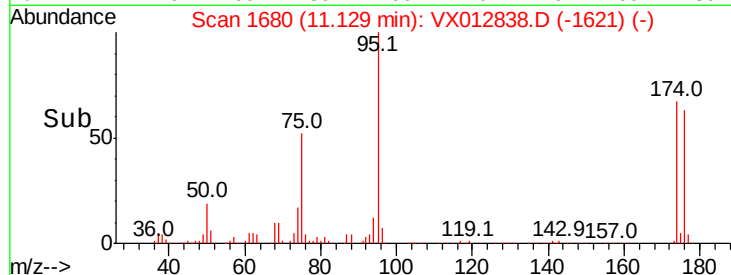
89 0.0 36.3 54.5#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.322 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. -0.01 min

Lab File: VX012838.D

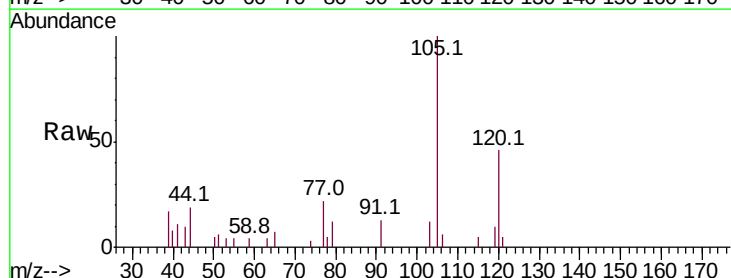
Acq: 07 Oct 2019 15:13

Tgt Ion: 105 Resp: 2222

Ion Ratio Lower Upper

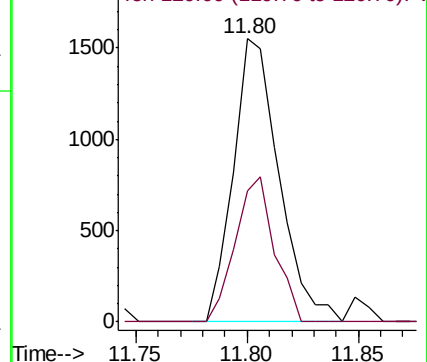
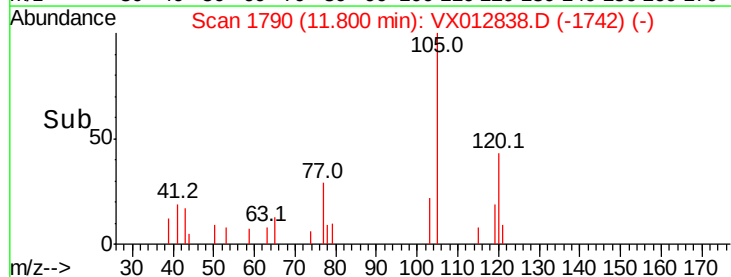
105 100

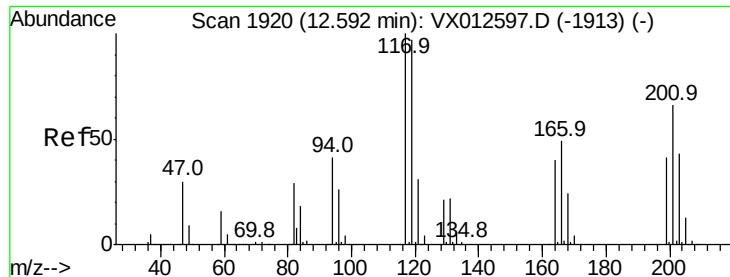
120 43.5 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 0.339 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

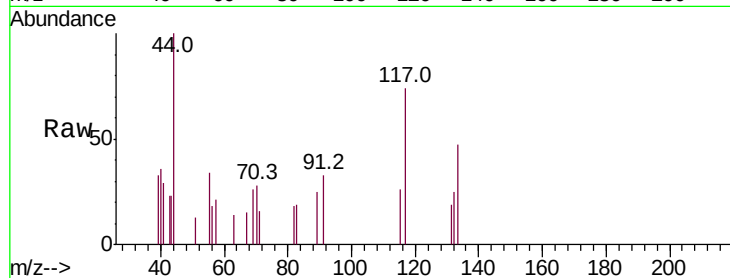
MW-103S

Tot Ion:117 Resp: 418

Ion Ratio Lower Upper

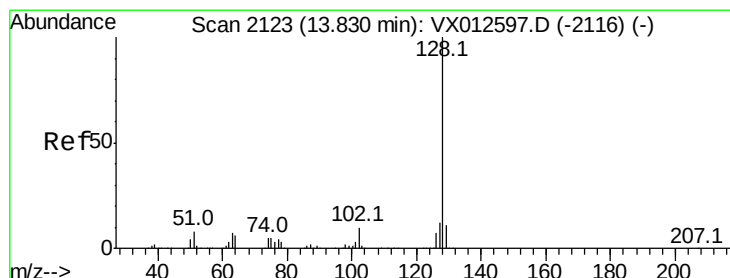
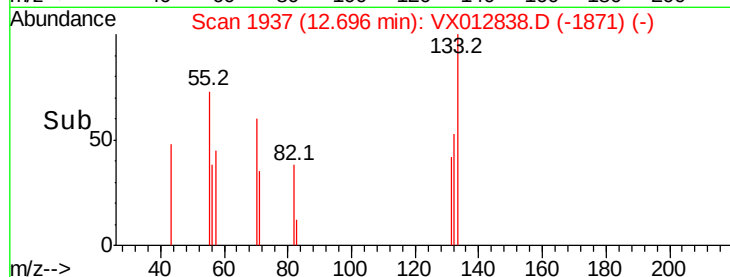
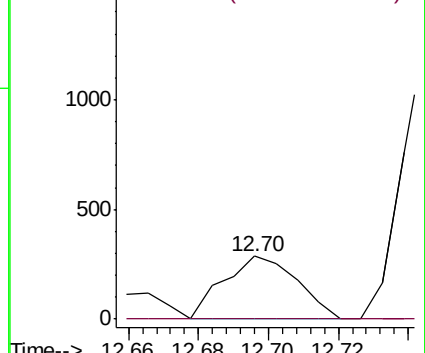
117 100

201 0.0 33.3 99.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 6.890 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX012838.D

Acq: 07 Oct 2019 15:13

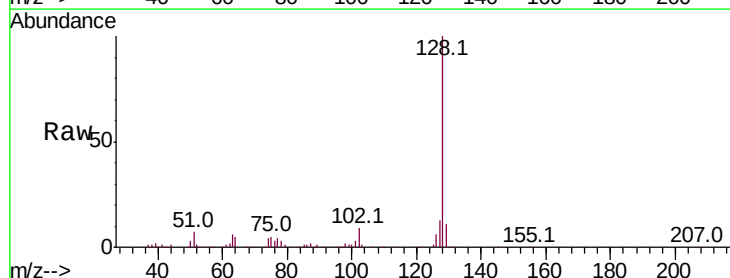
Tgt Ion:128 Resp: 50562

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

129 11.2 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

