

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112519\
 Data File : BF117987.D
 Acq On : 26 Nov 2019 1:14
 Operator : JU
 Sample : K5970-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 26 03:54:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 18:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	193704	20.00	ng	-0.04
21) Naphthalene-d8	8.17	136	685793	20.00	ng	-0.04
39) Acenaphthene-d10	9.94	164	393612	20.00	ng	-0.04
64) Phenanthrene-d10	11.43	188	545606	20.00	ng	-0.04
76) Chrysene-d12	14.08	240	284712	20.00	ng	-0.04
87) Perylene-d12	15.58	264	356561	20.00	ng	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.51	112	1061922	97.04	ng	-0.02
7) Phenol-d6	6.52	99	1513553	114.67	ng	-0.02
23) Nitrobenzene-d5	7.46	82	833142	72.22	ng	-0.04
42) 2,4,6-Tribromophenol	10.73	330	430904	103.41	ng	-0.04
45) 2-Fluorobiphenyl	9.26	172	1720466	78.42	ng	-0.04
79) Terphenyl-d14	13.02	244	1363714	87.54	ng	-0.04

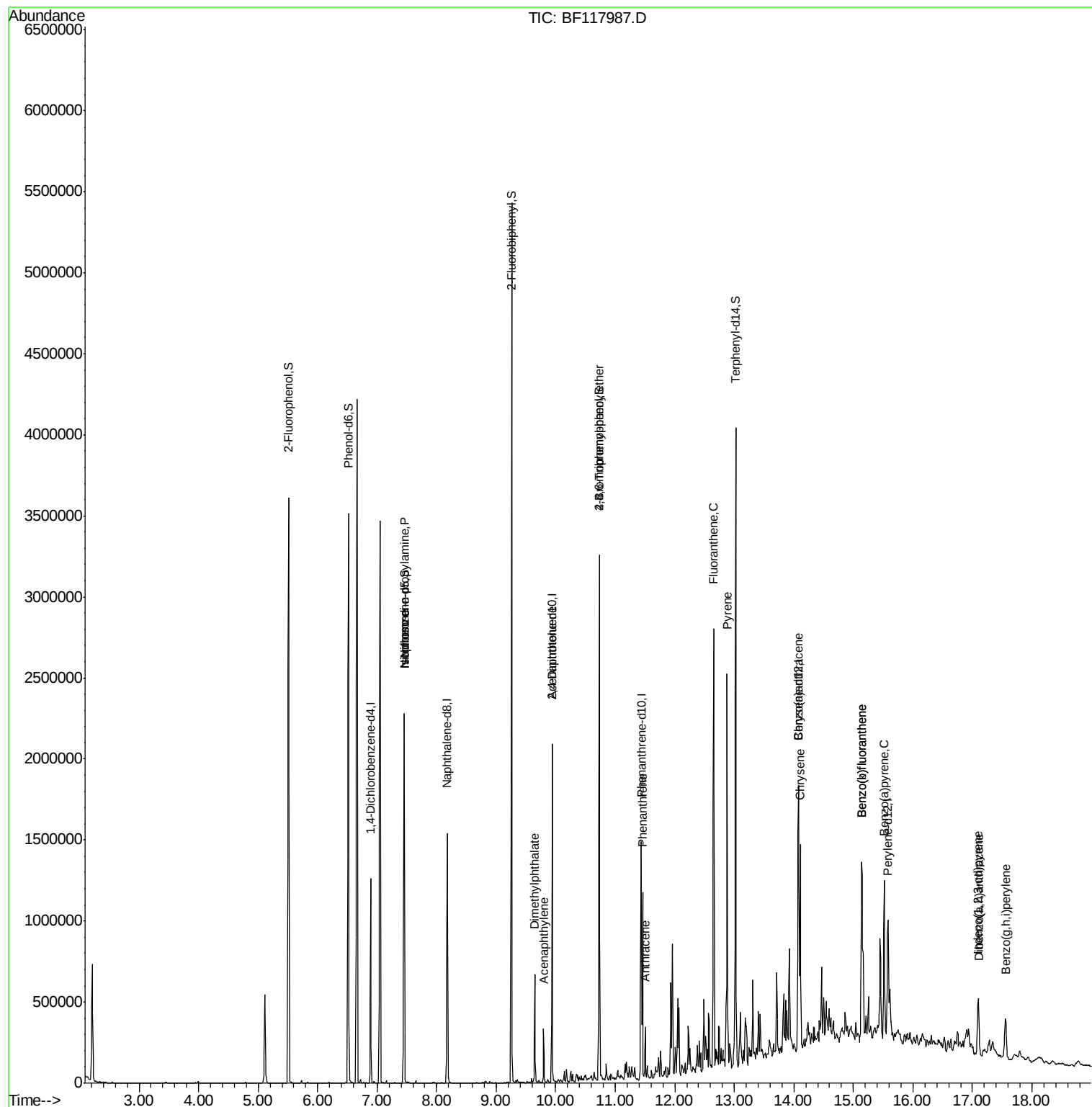
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.46	70	112935	13.869	ng	# 72
25) Isophorone	7.46	82	826643	39.095	ng	# 62
49) Acenaphthylene	9.80	152	132476	3.782	ng	97
50) Dimethylphthalate	9.65	163	266209	9.645	ng	99
57) 2,4-Dinitrotoluene	9.94	165	51190	6.671	ng	# 24
67) 4-Bromophenyl-phenylether	10.73	248	27170	4.615	ng	# 1
71) Phenanthrene	11.46	178	436322	15.906	ng	96
72) Anthracene	11.50	178	106872	3.929	ng	96
75) Fluoranthene	12.65	202	1008290	39.433	ng	99
78) Pyrene	12.88	202	983223	42.732	ng	99
81) Benzo(a)anthracene	14.07	228	528641	28.098	ng	94
83) Chrysene	14.11	228	480929	26.380	ng	100
86) Indeno(1,2,3-cd)pyrene	17.10	276	225770	14.550	ng	95
88) Benzo(b)fluoranthene	15.14	252	830850	35.865	ng	99
89) Benzo(k)fluoranthene	15.14	252	830850	38.064	ng	97
90) Benzo(a)pyrene	15.52	252	447317	21.959	ng	100
91) Dibenzo(a,h)anthracene	17.11	278	60170	3.432	ng	95
92) Benzo(g,h,i)perylene	17.56	276	199627	11.431	ng	99

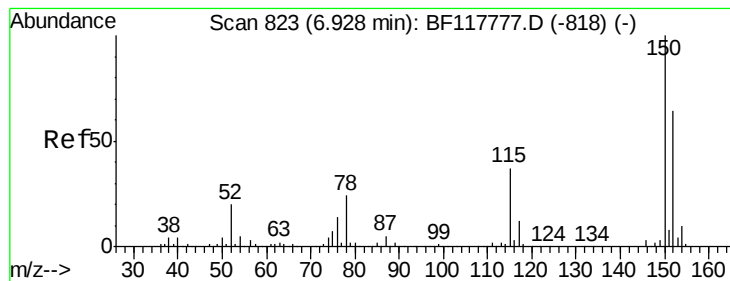
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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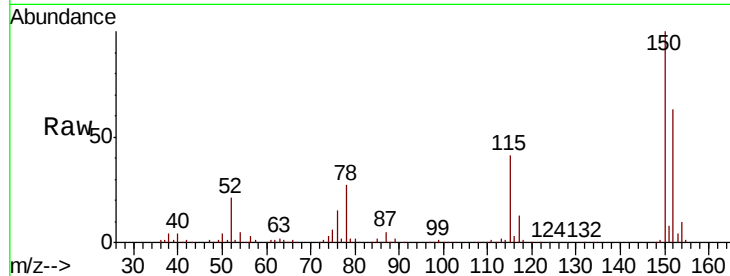


#1

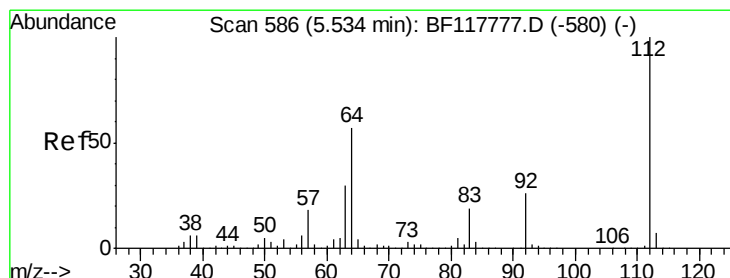
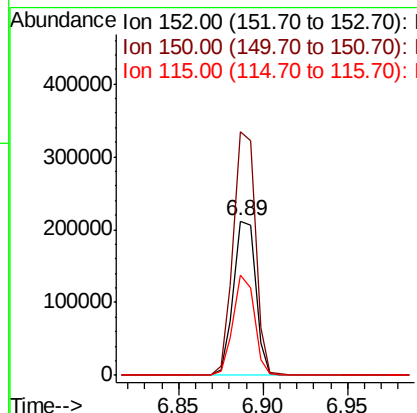
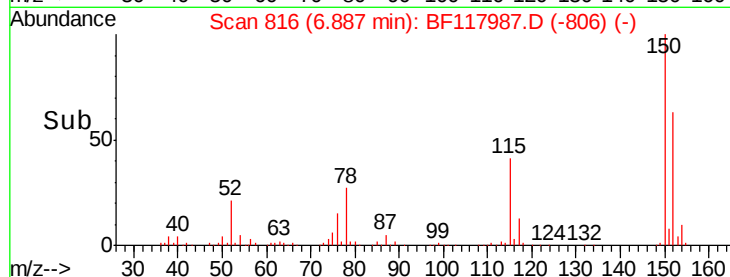
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 193704
Ion Ratio Lower Upper
152 100
150 157.7 125.3 187.9
115 64.8 47.0 70.4



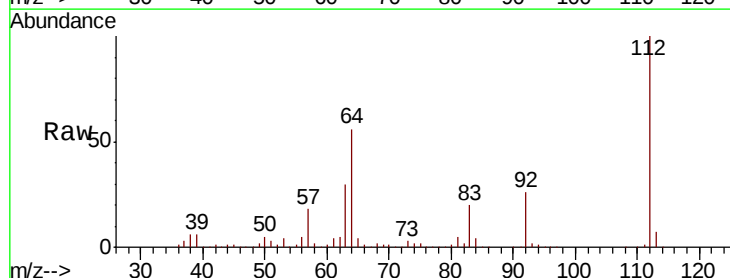
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



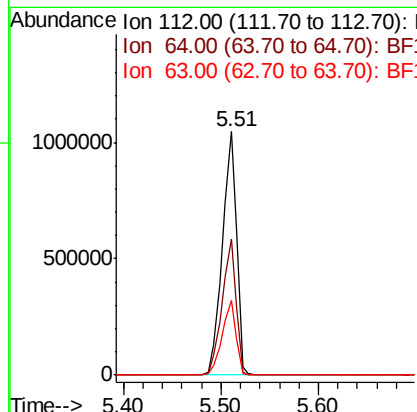
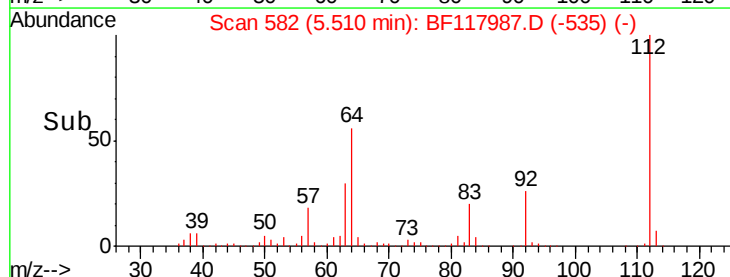
#5

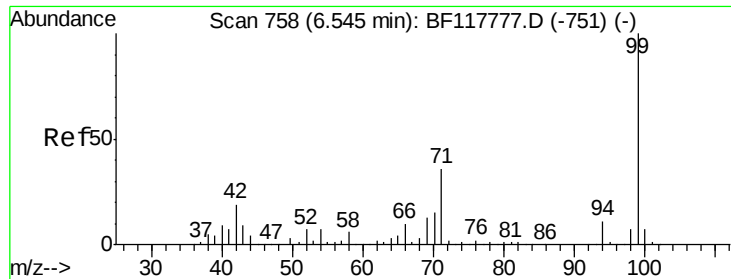
2-Fluorophenol
Concen: 97.041 ng
RT: 5.51 min Scan# 582
Delta R.T. -0.02 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Tgt Ion:112 Resp: 1061922
Ion Ratio Lower Upper
112 100
64 55.8 45.6 68.4
63 30.4 24.1 36.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 114.671 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.02 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

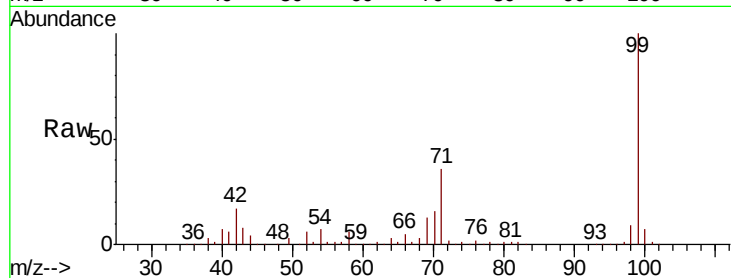
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1513553

Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.9	22.3
71	35.7	28.6	43.0

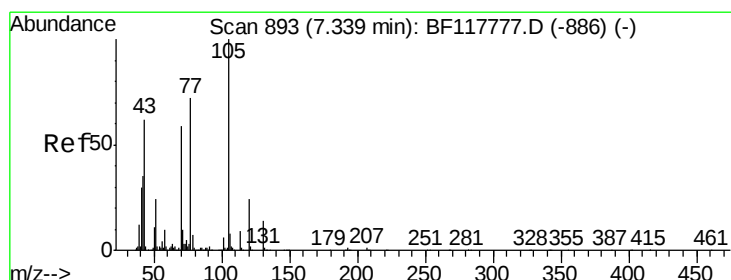
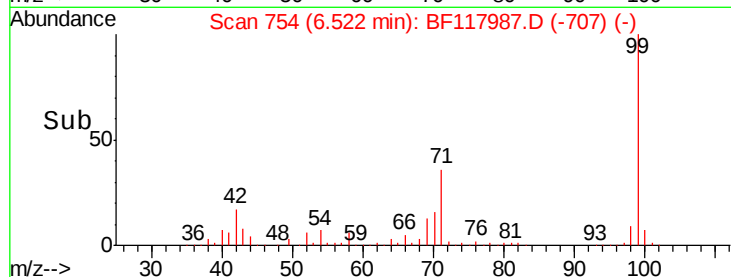
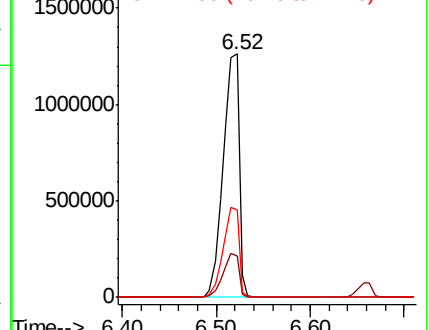


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 13.869 ng

RT: 7.46 min Scan# 913

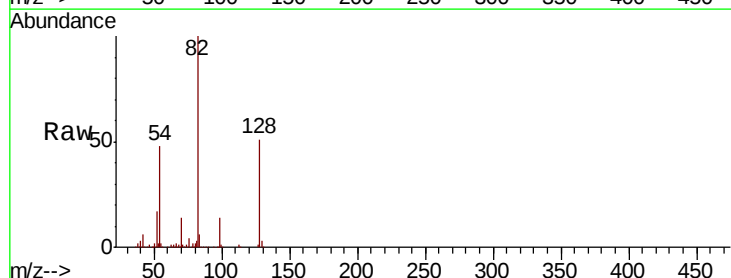
Delta R.T. 0.12 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Tgt Ion: 70 Resp: 112935

Ion	Ratio	Lower	Upper
70	100		
42	42.5	47.4	71.2#
101	0.0	8.4	12.6#
130	2.1	18.8	28.2#



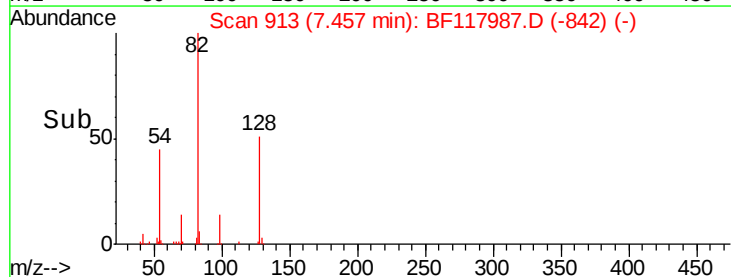
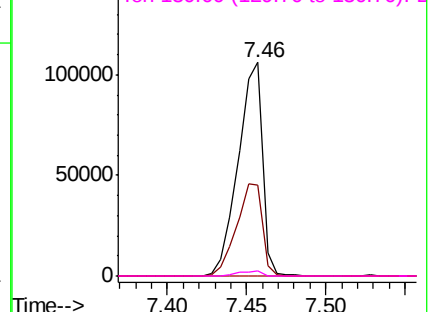
Abundance

Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

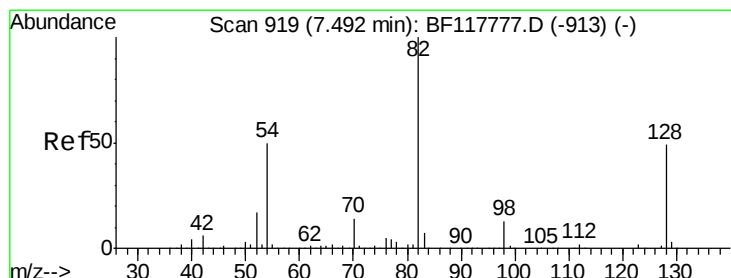
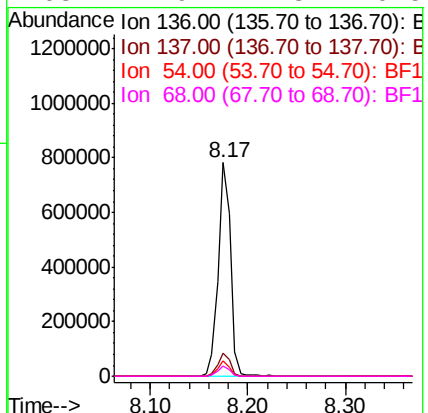
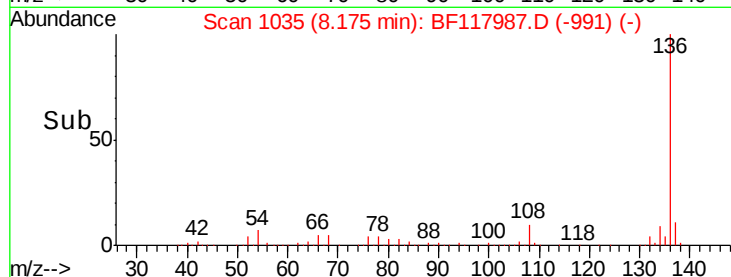
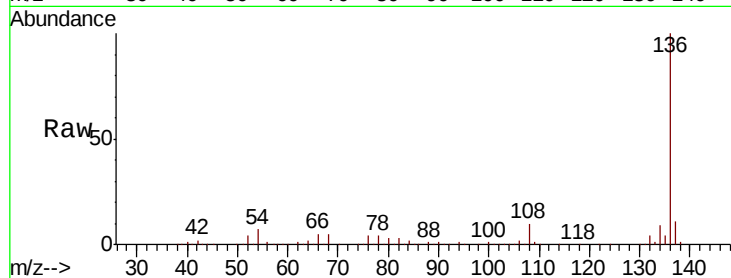




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

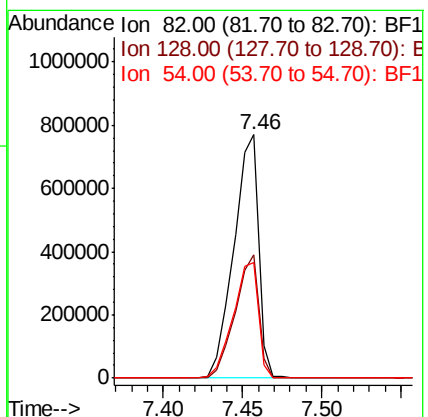
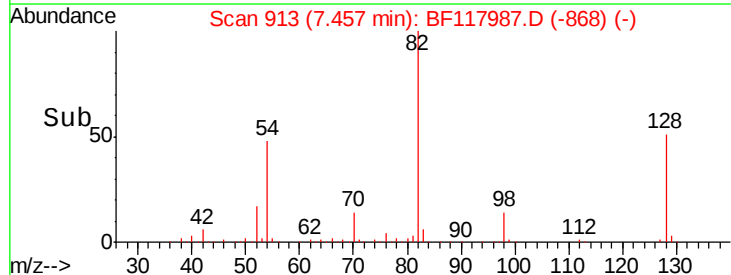
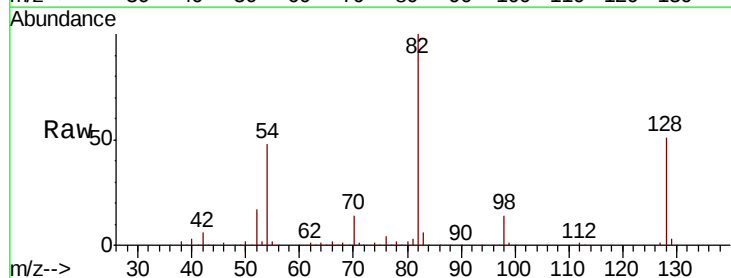
Instrument :
BNA_F
ClientSampleId :

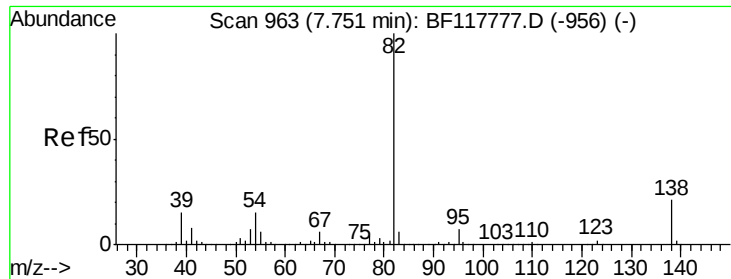
Tot Ion:136	Resp:	685793
Ion Ratio	Lower	Upper
136	100	
137	11.0	9.0 13.4
54	6.9	5.4 8.2
68	4.9	4.3 6.5



#23
Nitrobenzene-d5
Concen: 72.218 ng
RT: 7.46 min Scan# 913
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Tgt Ion: 82	Resp:	833142
Ion Ratio	Lower	Upper
82	100	
128	50.6	38.9 58.3
54	47.6	39.8 59.6





#25

Isophorone

Concen: 39.095 ng

RT: 7.46 min Scan# 913

Delta R.T. -0.29 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Instrument :

BNA_F

ClientSampled :

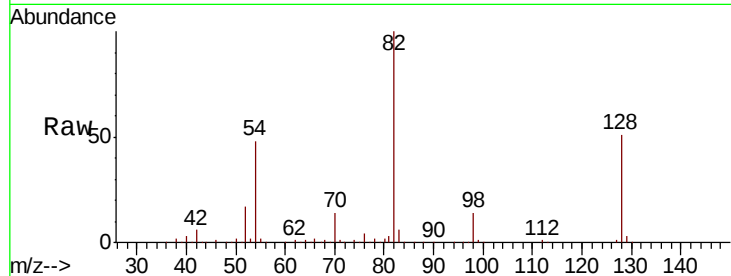
Tot Ion: 82 Resp: 826643

Ion Ratio Lower Upper

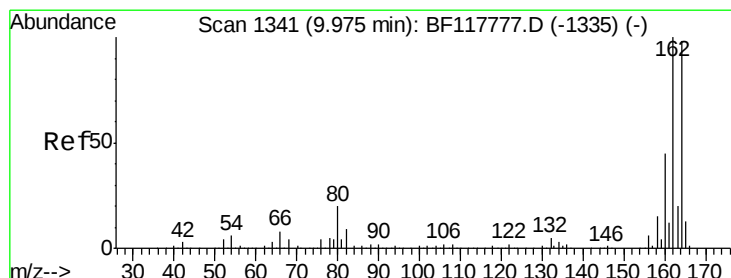
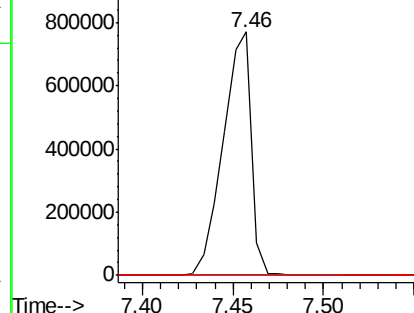
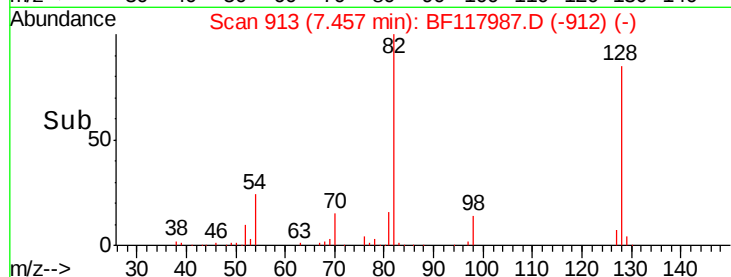
82 100

95 0.0 5.8 8.8#

138 0.0 16.5 24.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

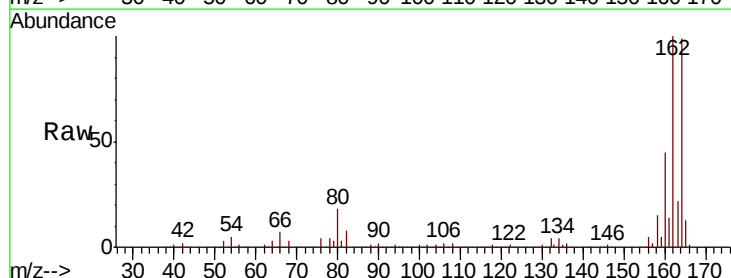
Tgt Ion: 164 Resp: 393612

Ion Ratio Lower Upper

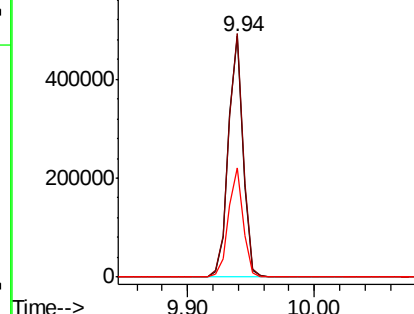
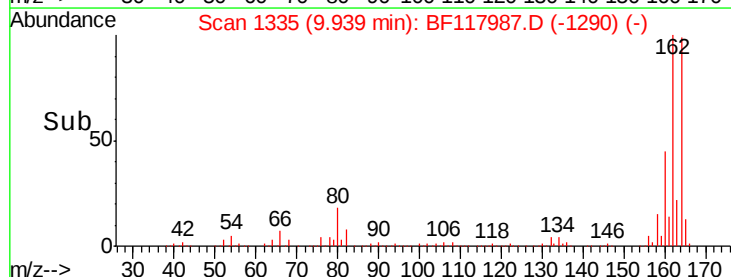
164 100

162 101.1 81.3 121.9

160 45.4 36.6 55.0



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

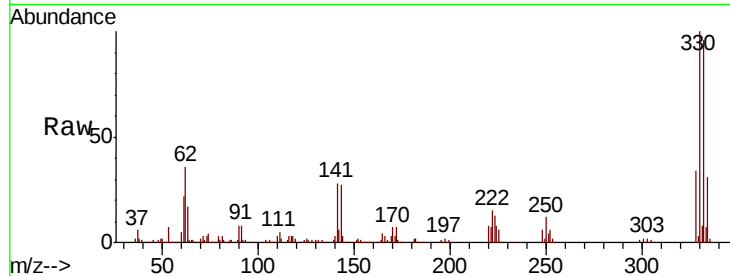




#42
 2,4,6-Tribromophenol
 Concen: 103.406 ng
 RT: 10.73 min Scan# 1470
 Delta R.T. -0.04 min
 Lab File: BF117987.D
 Acq: 26 Nov 2019 1:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.7	115.1
141	33.0	27.7	41.5

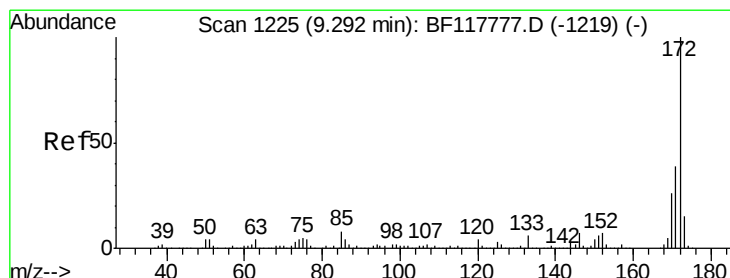
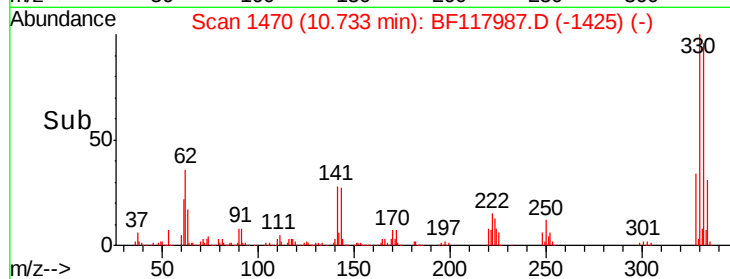
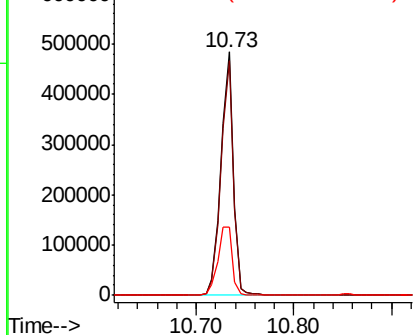


Abundance

Ion 329.80 (329.50 to 330.50): E

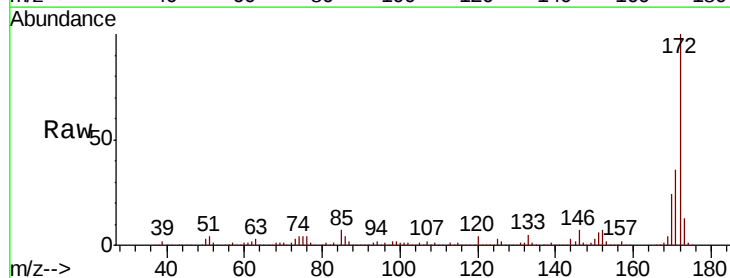
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 78.417 ng
 RT: 9.26 min Scan# 1219
 Delta R.T. -0.04 min
 Lab File: BF117987.D
 Acq: 26 Nov 2019 1:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	30.9	46.3
170	24.4	21.0	31.4

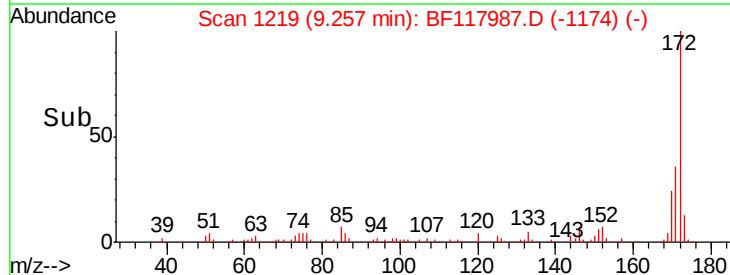
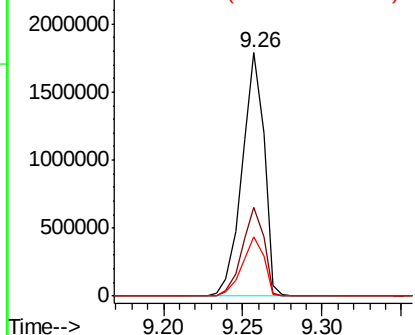


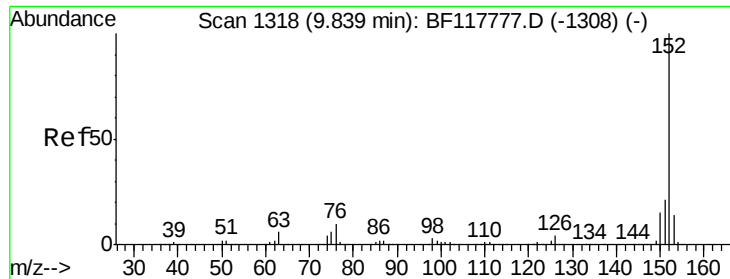
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 3.782 ng

RT: 9.80 min Scan# 1311

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Instrument :

BNA_F

ClientSampleId :

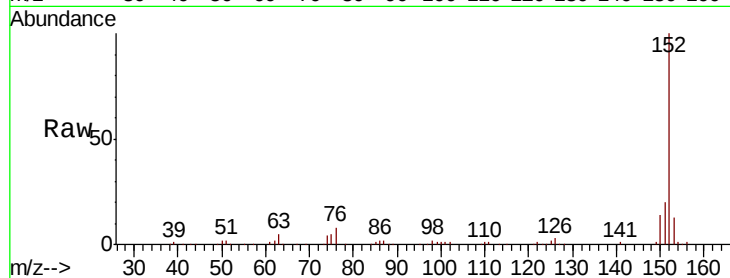
Tot Ion:152 Resp: 132476

Ion Ratio Lower Upper

152 100

151 20.0 17.0 25.6

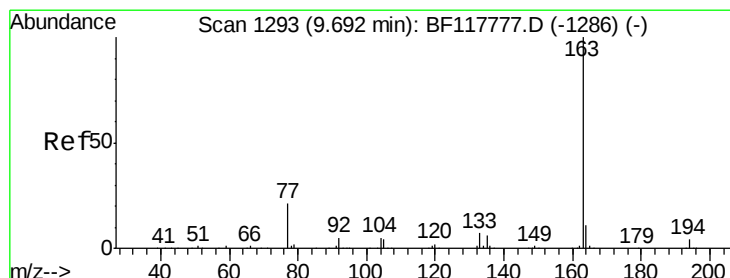
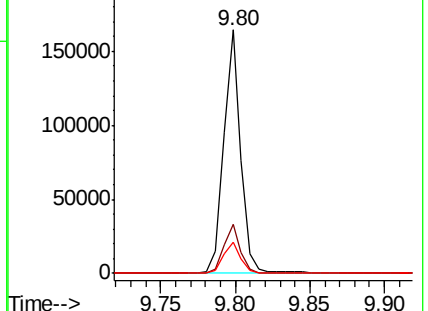
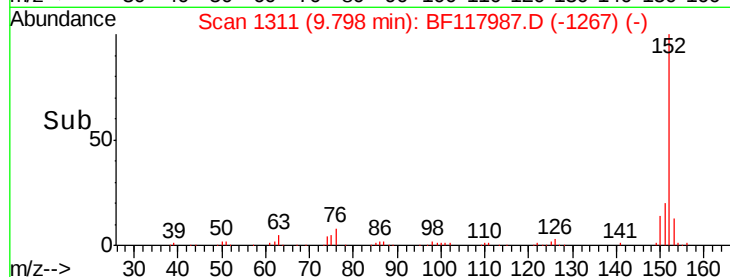
153 12.7 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 9.645 ng

RT: 9.65 min Scan# 1285

Delta R.T. -0.05 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

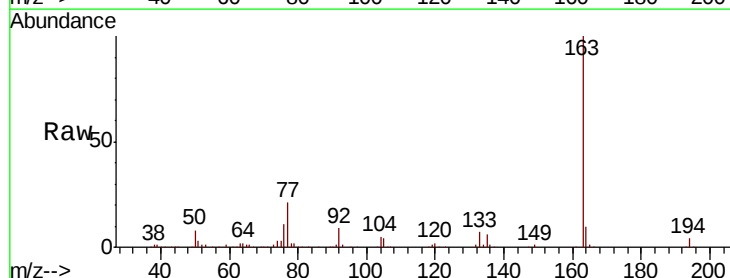
Tgt Ion:163 Resp: 266209

Ion Ratio Lower Upper

163 100

194 3.8 3.3 4.9

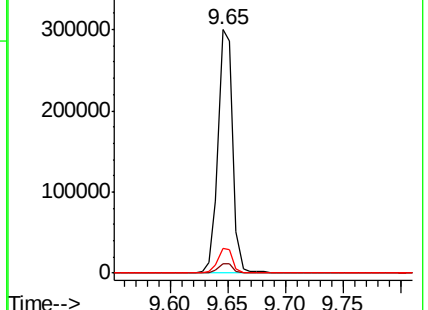
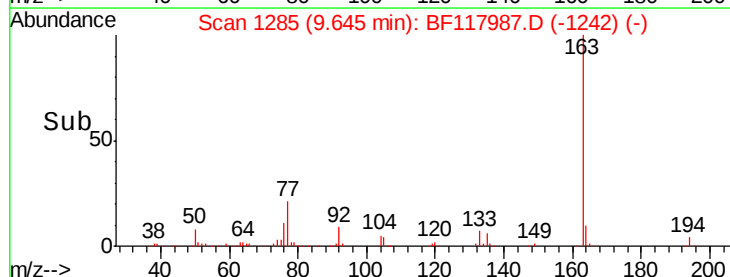
164 10.4 8.7 13.1

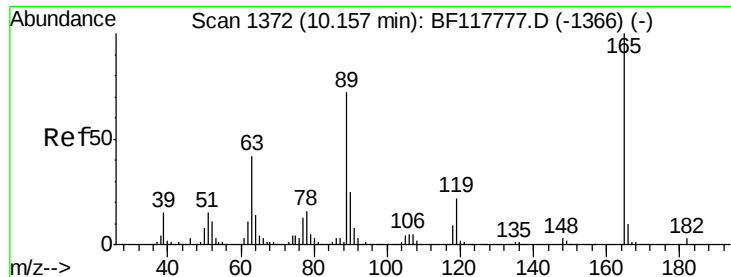


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

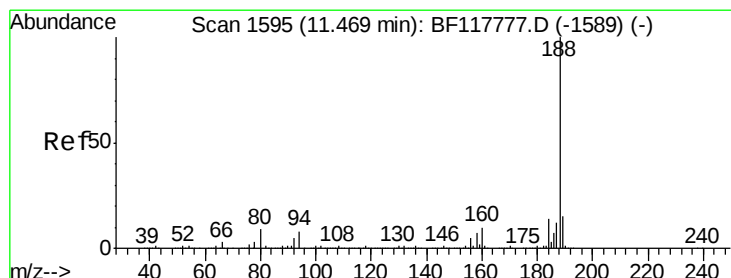
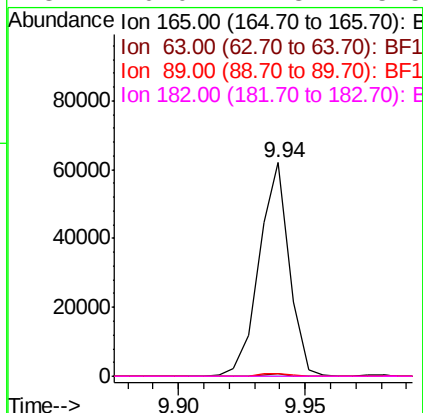
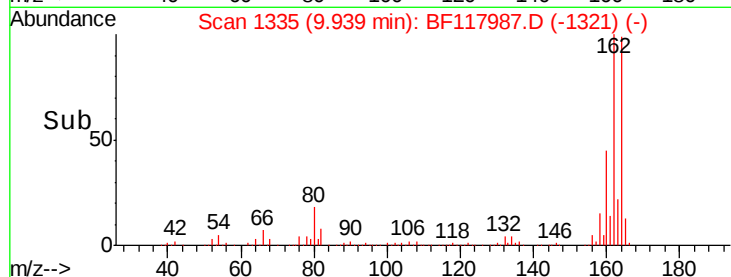
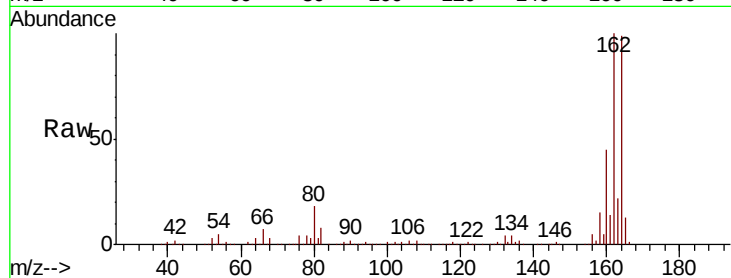




#57
2,4-Dinitrotoluene
Concen: 6.671 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.22 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

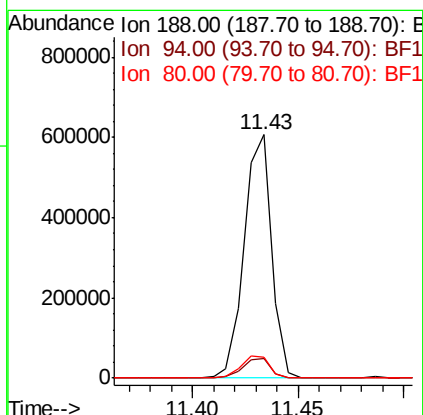
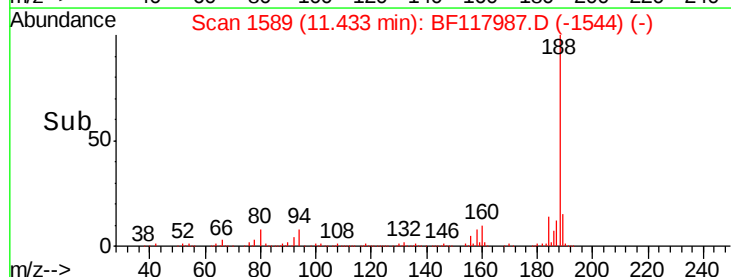
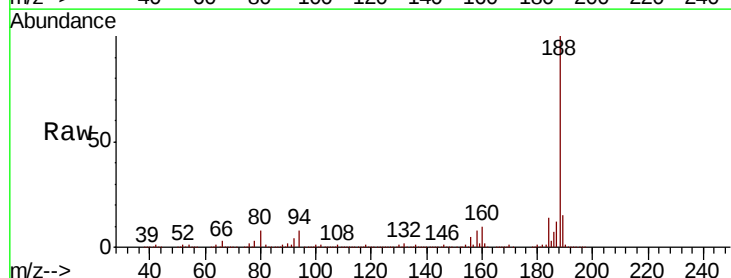
Instrument :
BNA_F
ClientSampled :

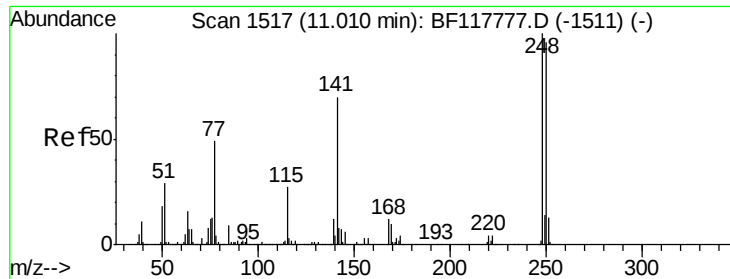
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	33.7	50.5#
89	1.0	57.3	85.9#
182	0.0	2.3	3.5#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.6	10.0
80	8.4	7.2	10.8

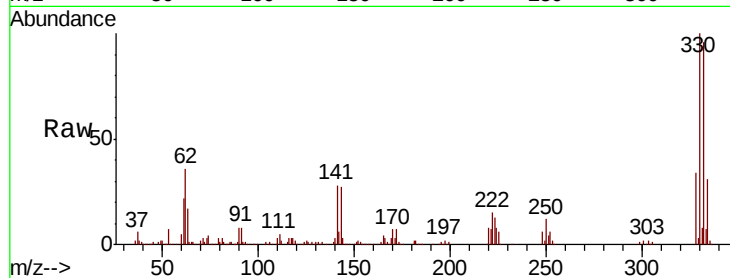




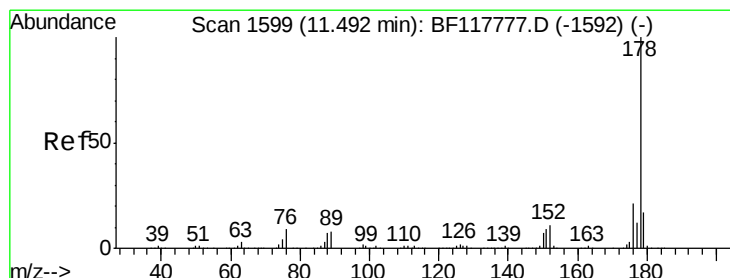
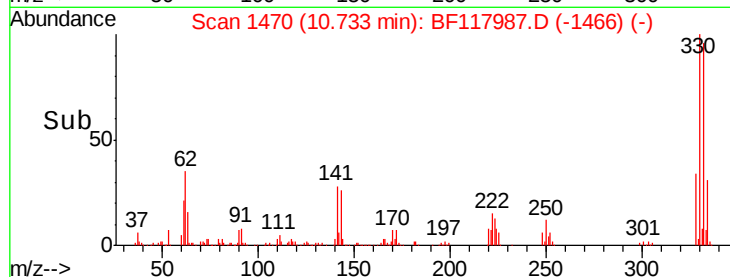
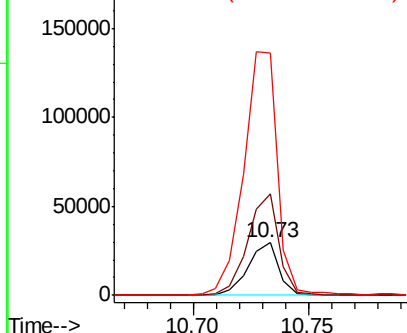
#67
 4-Bromophenyl-phenylether
 Concen: 4.615 ng
 RT: 10.73 min Scan# 1470
 Delta R.T. -0.28 min
 Lab File: BF117987.D
 Acq: 26 Nov 2019 1:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 27170
 Ion Ratio Lower Upper
 248 100
 250 195.1 76.6 115.0#
 141 463.0 55.9 83.9#

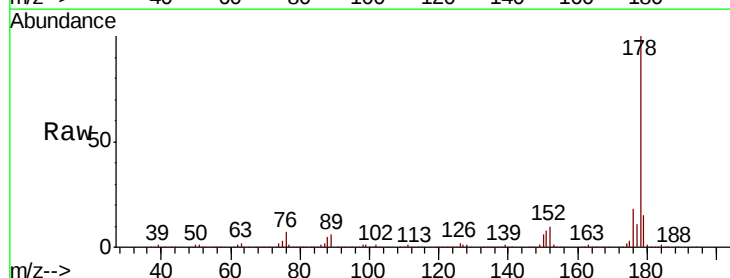


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

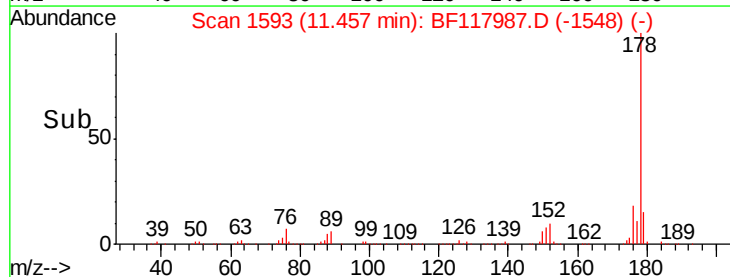
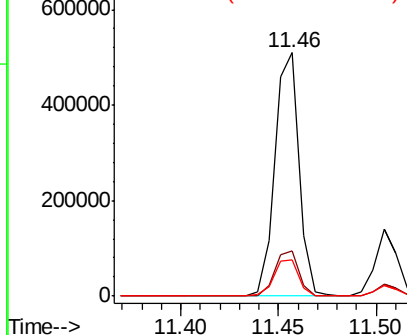


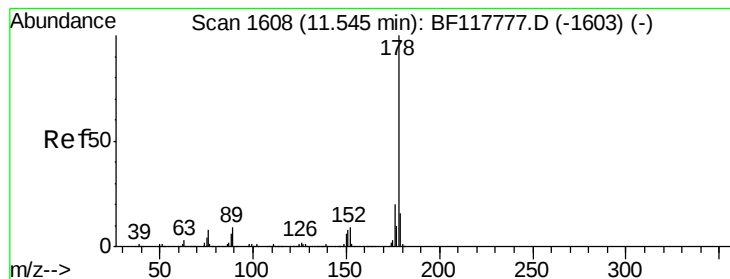
#71
 Phenanthrene
 Concen: 15.906 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.04 min
 Lab File: BF117987.D
 Acq: 26 Nov 2019 1:14

Tgt Ion:178 Resp: 436322
 Ion Ratio Lower Upper
 178 100
 176 18.4 16.6 25.0
 179 15.1 13.2 19.8



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 3.929 ng

RT: 11.50 min Scan# 1601

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Instrument :

BNA_F

ClientSampleId :

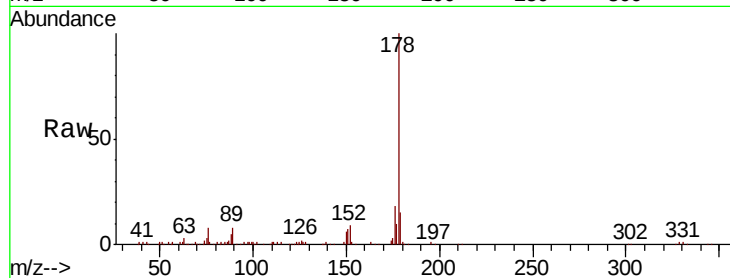
Tot Ion:178 Resp: 106872

Ion Ratio Lower Upper

178 100

176 17.8 16.1 24.1

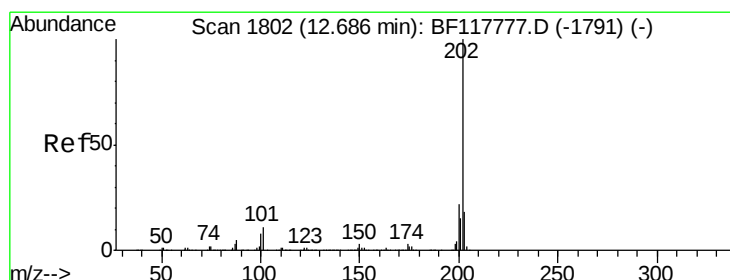
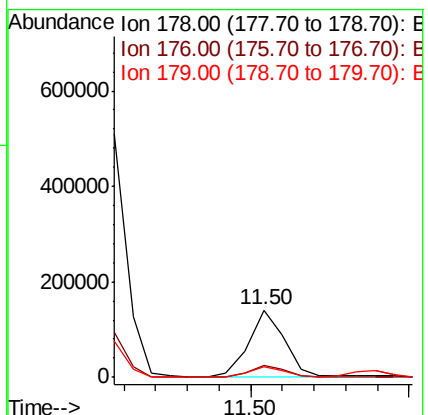
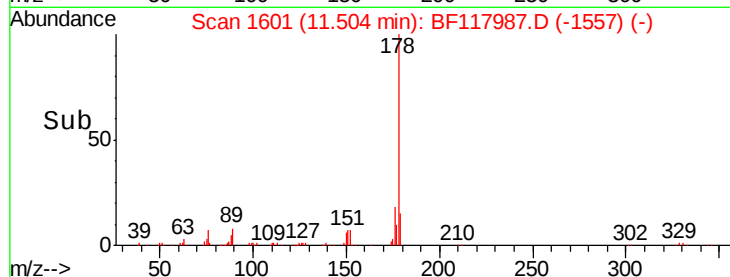
179 15.3 13.0 19.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 39.433 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

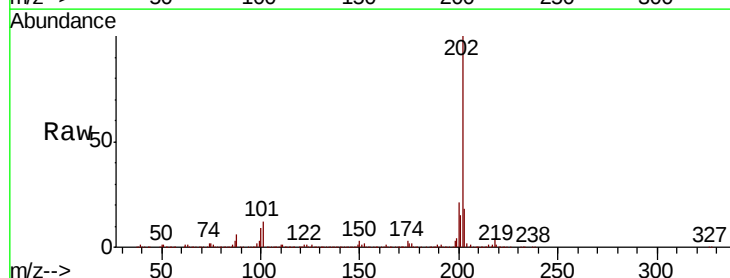
Tgt Ion:202 Resp: 1008290

Ion Ratio Lower Upper

202 100

101 11.5 0.0 31.1

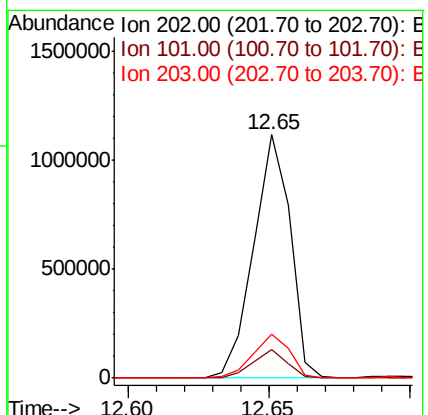
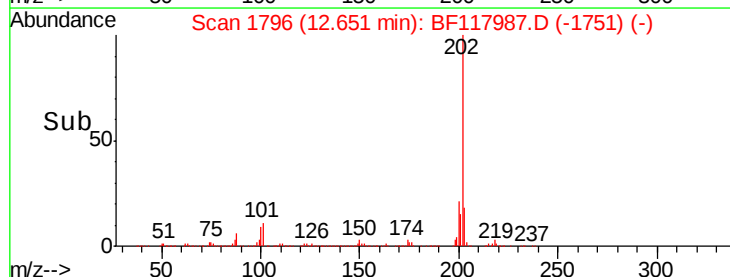
203 18.1 0.0 38.2

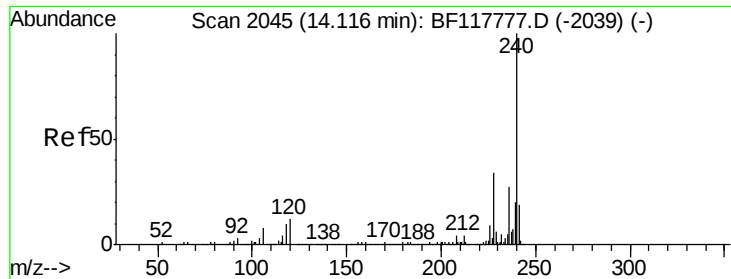


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

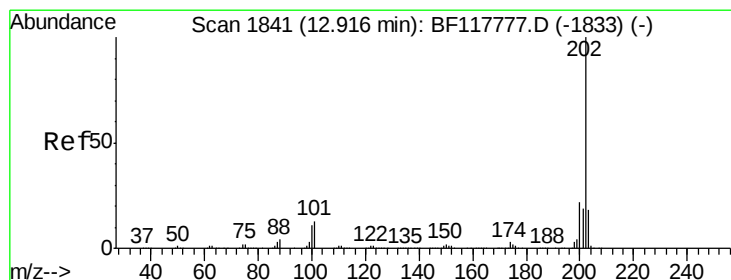
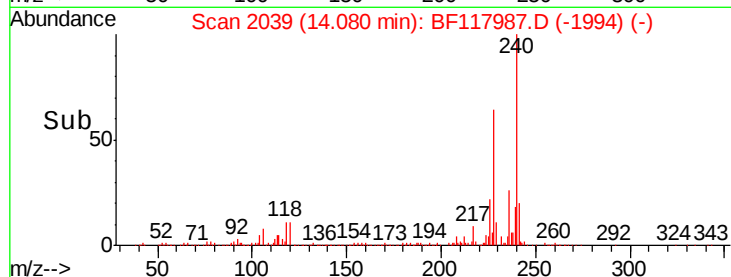
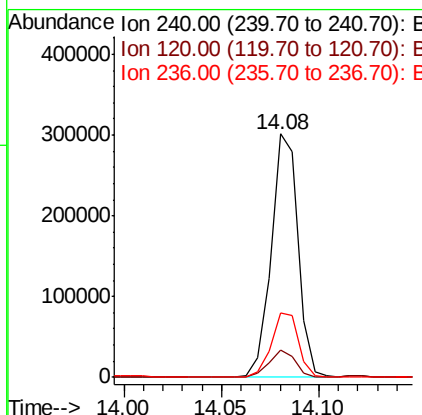
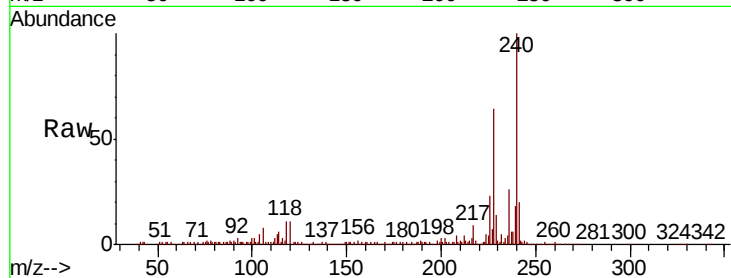




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

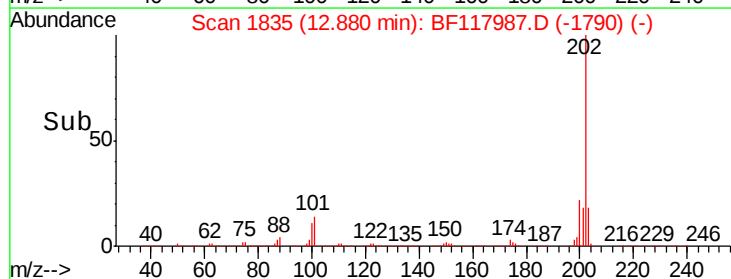
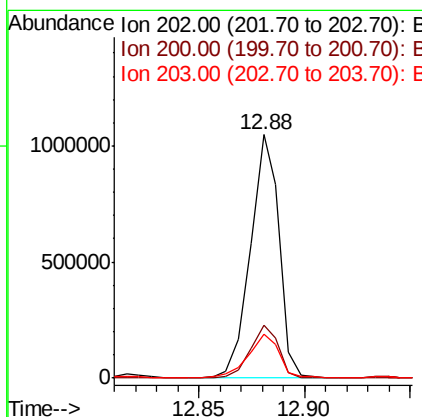
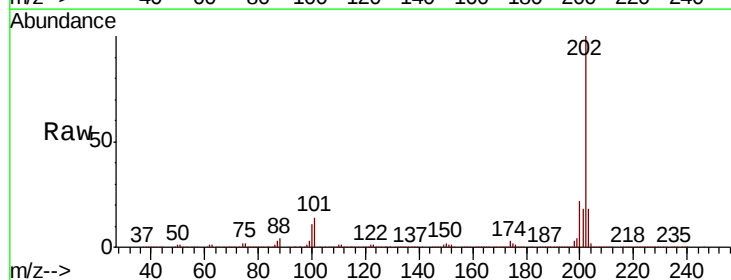
Instrument :
BNA_F
ClientSampleId :

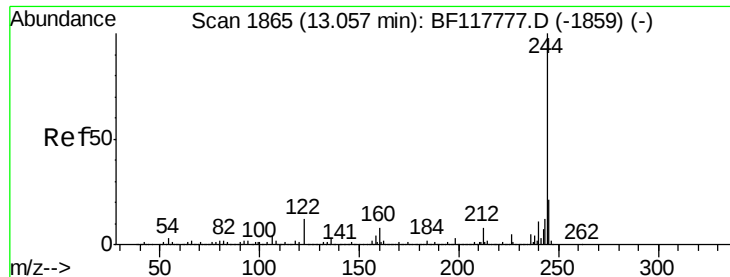
Tot Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.5	14.3
236	26.4	21.3	31.9



#78
Pyrene
Concen: 42.732 ng
RT: 12.88 min Scan# 1835
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.8	26.8
203	18.0	14.6	22.0





#79

Terphenyl-d14

Concen: 87.539 ng

RT: 13.02 min Scan# 1859

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Instrument :

BNA_F

ClientSampleId :

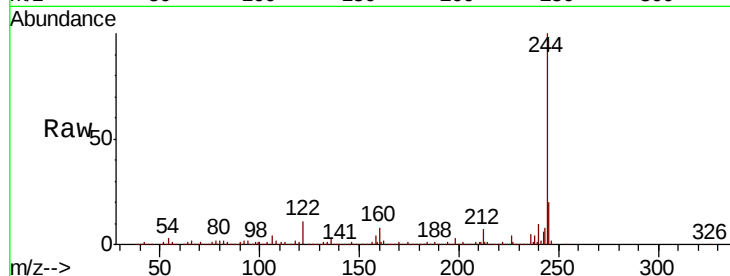
Tot Ion:244 Resp: 1363714

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.3	9.5
122	11.2	9.4	14.2

244 100

212 7.2 6.3 9.5

122 11.2 9.4 14.2

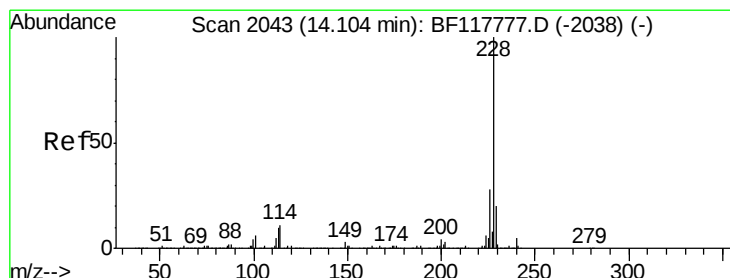
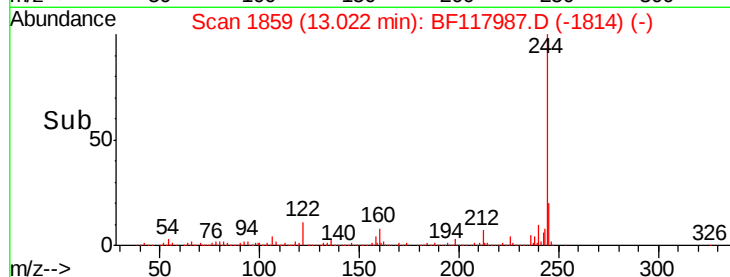
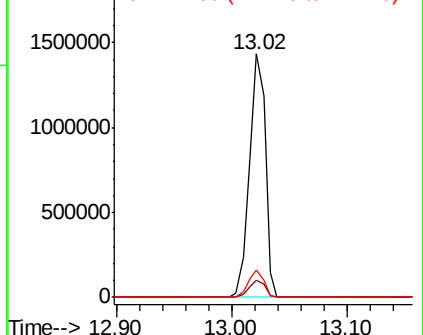


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 28.098 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

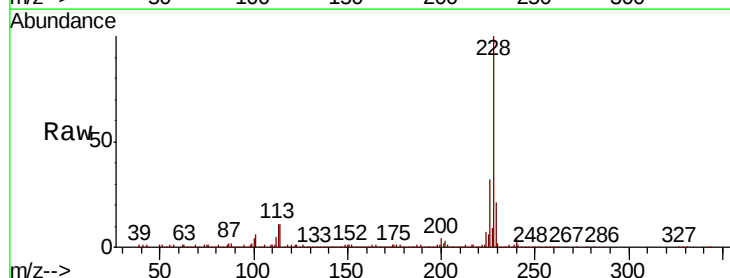
Tgt Ion:228 Resp: 528641

Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.2	33.2
229	21.1	15.9	23.9

228 100

226 31.7 22.2 33.2

229 21.1 15.9 23.9

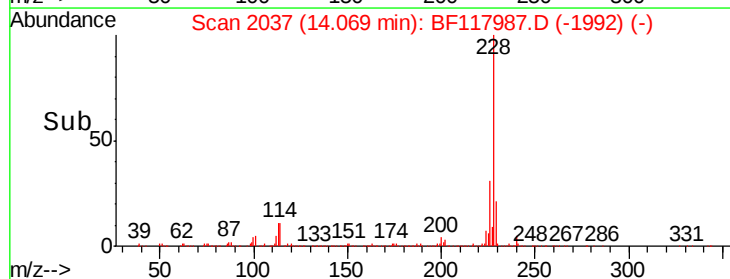
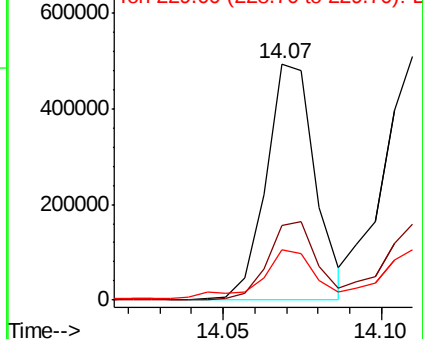


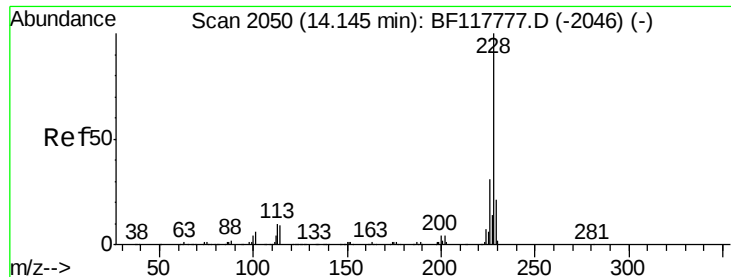
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

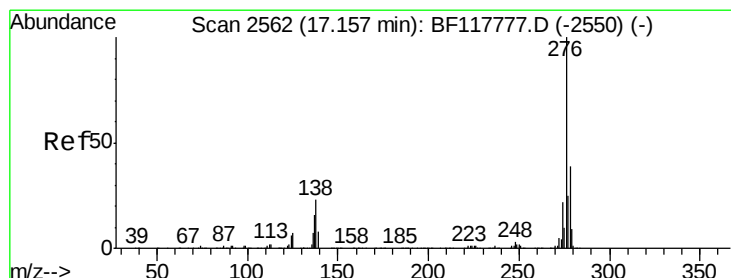
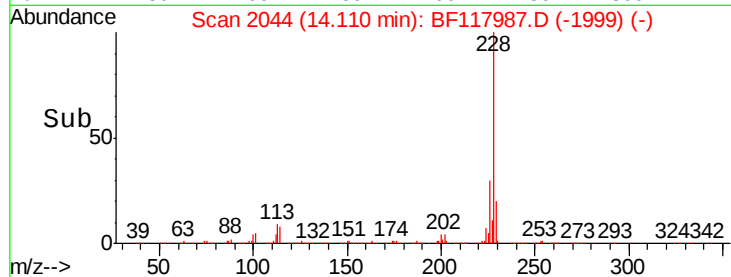
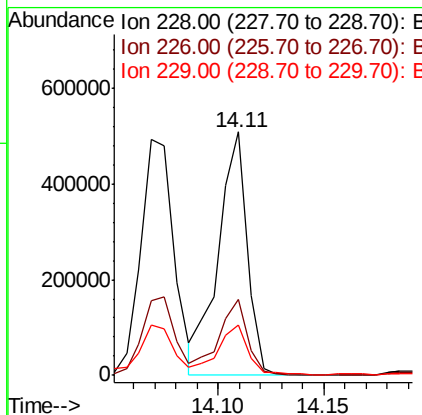
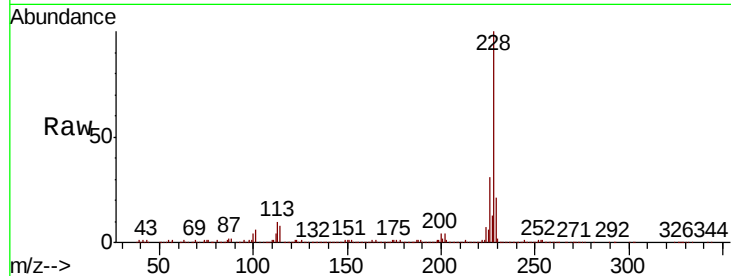




#83
 Chrysene
 Concen: 26.380 ng
 RT: 14.11 min Scan# 2044
 Delta R.T. -0.04 min
 Lab File: BF117987.D
 Acq: 26 Nov 2019 1:14

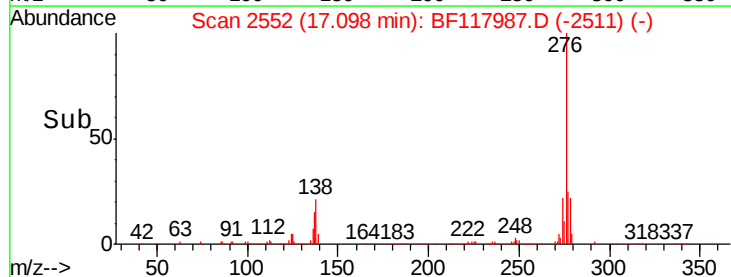
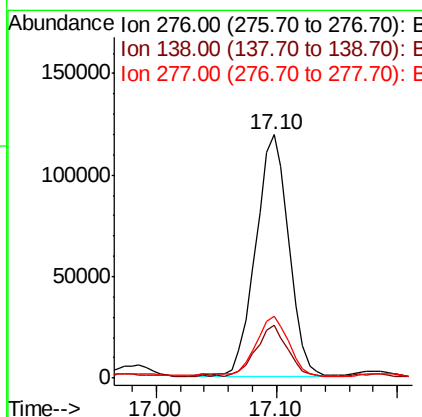
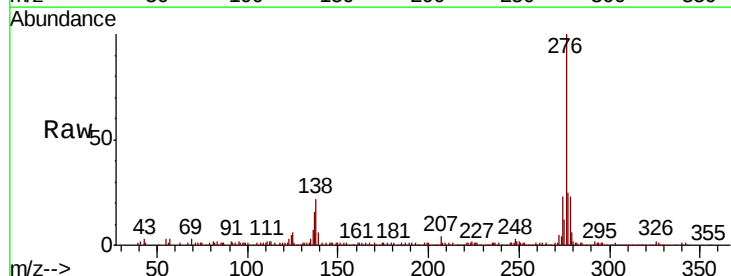
Instrument :
 BNA_F
 ClientSampleId :

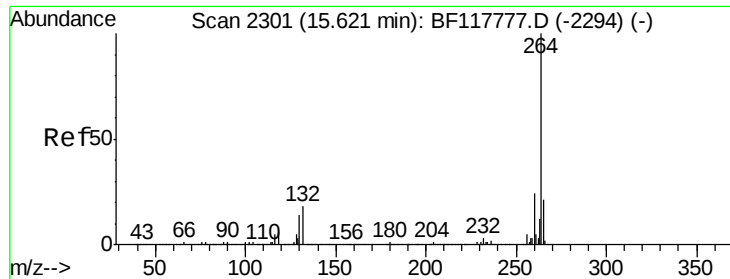
Tot Ion:228 Resp: 480929
 Ion Ratio Lower Upper
 228 100
 226 31.0 25.0 37.4
 229 20.9 16.6 25.0



#86
 Indeno(1,2,3-cd)pyrene
 Concen: 14.550 ng
 RT: 17.10 min Scan# 2552
 Delta R.T. -0.06 min
 Lab File: BF117987.D
 Acq: 26 Nov 2019 1:14

Tgt Ion:276 Resp: 225770
 Ion Ratio Lower Upper
 276 100
 138 21.3 20.9 31.3
 277 25.9 20.3 30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.58 min Scan# 2294

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Instrument :

BNA_F

ClientSampleId :

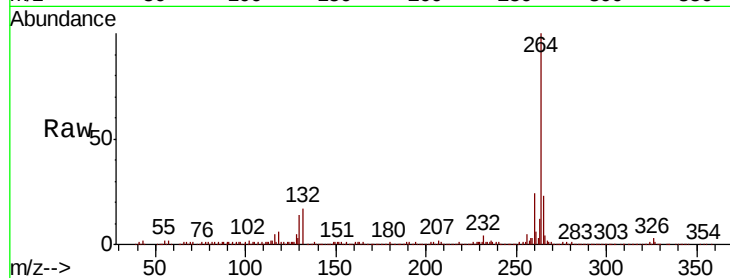
Tot Ion:264 Resp: 356561

Ion Ratio Lower Upper

264 100

260 24.1 19.4 29.0

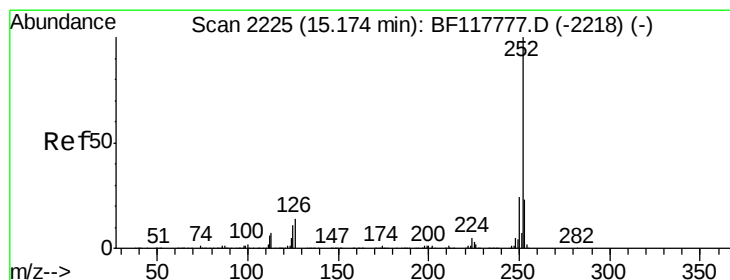
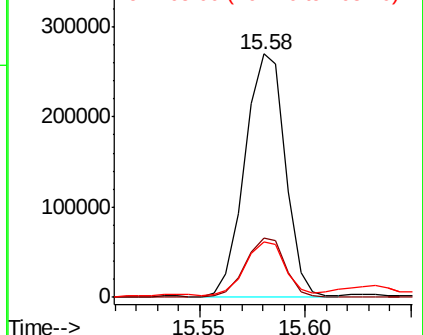
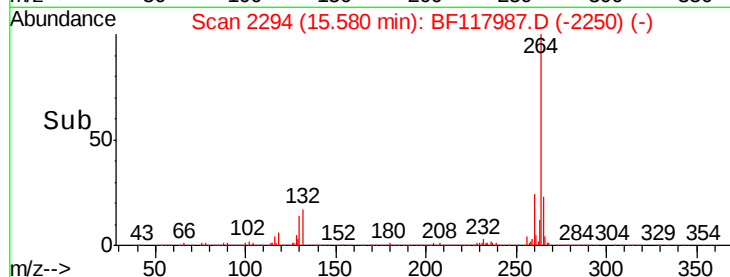
265 23.0 17.1 25.7



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 35.865 ng

RT: 15.14 min Scan# 2219

Delta R.T. -0.04 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

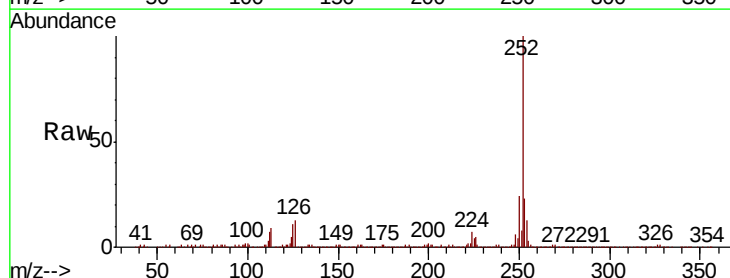
Tgt Ion:252 Resp: 830850

Ion Ratio Lower Upper

252 100

253 23.1 18.0 27.0

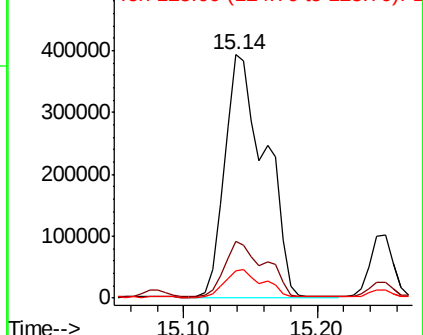
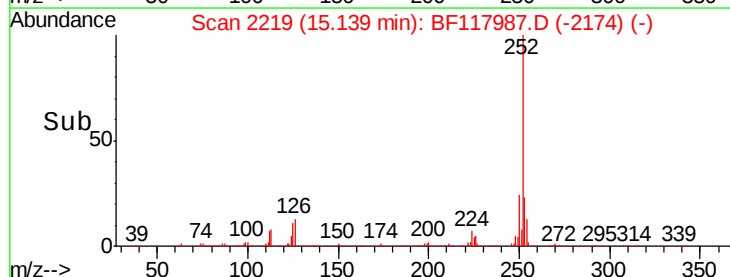
125 11.1 8.6 13.0

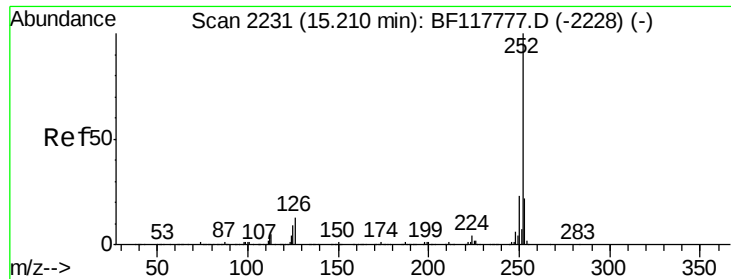


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

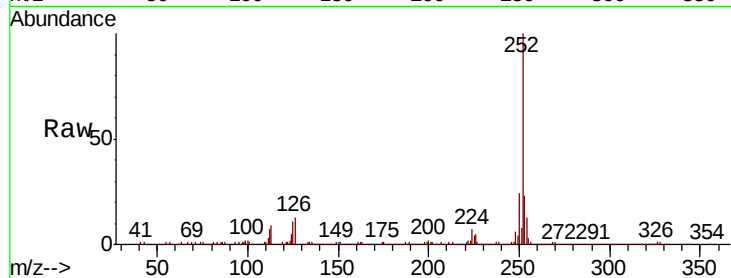




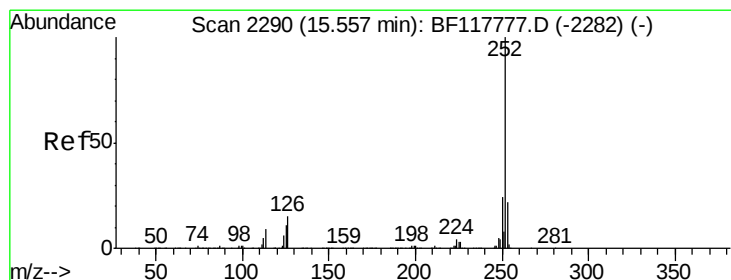
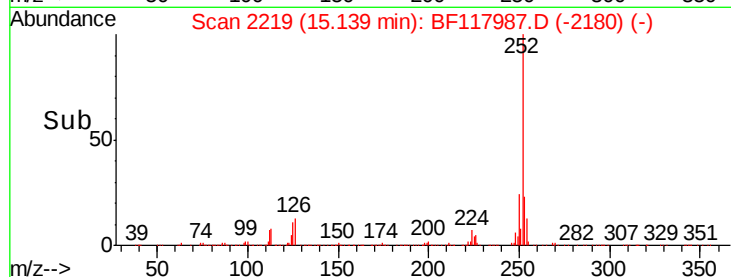
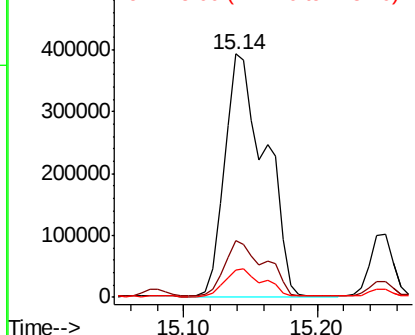
#89
Benzo(k)fluoranthene
Concen: 38.064 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.07 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 830850
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 11.1 7.9 11.9

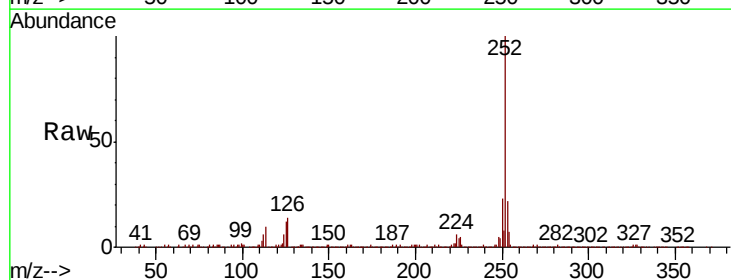


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

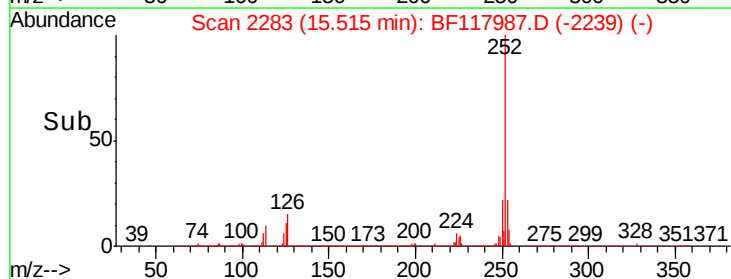
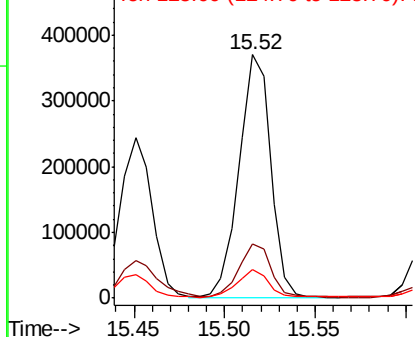


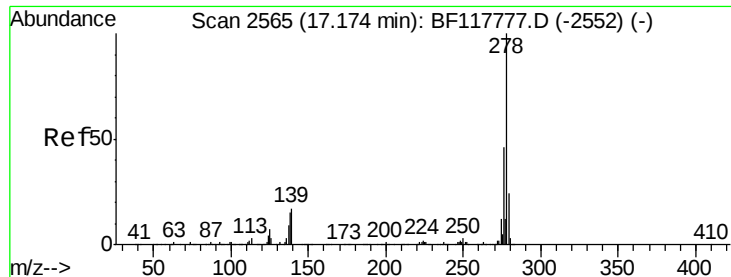
#90
Benzo(a)pyrene
Concen: 21.959 ng
RT: 15.52 min Scan# 2283
Delta R.T. -0.04 min
Lab File: BF117987.D
Acq: 26 Nov 2019 1:14

Tgt Ion:252 Resp: 447317
Ion Ratio Lower Upper
252 100
253 22.3 17.8 26.6
125 11.7 9.2 13.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 3.432 ng

RT: 17.11 min Scan# 2554

Delta R.T. -0.06 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

Instrument :

BNA_F

ClientSampleId :

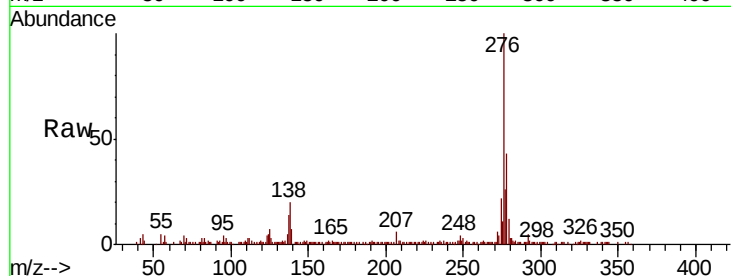
Tot Ion:278 Resp: 60170

Ion Ratio Lower Upper

278 100

139 16.8 13.8 20.8

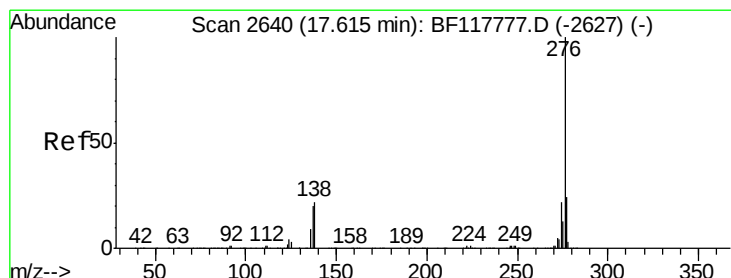
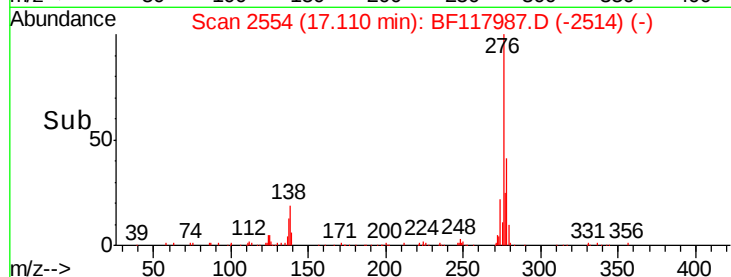
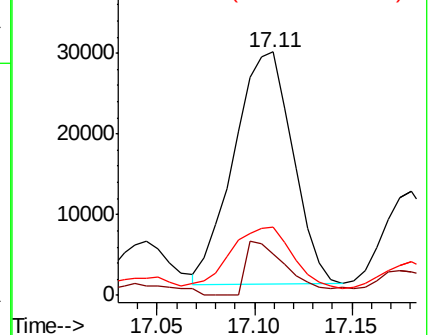
279 28.2 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 11.431 ng

RT: 17.56 min Scan# 2630

Delta R.T. -0.06 min

Lab File: BF117987.D

Acq: 26 Nov 2019 1:14

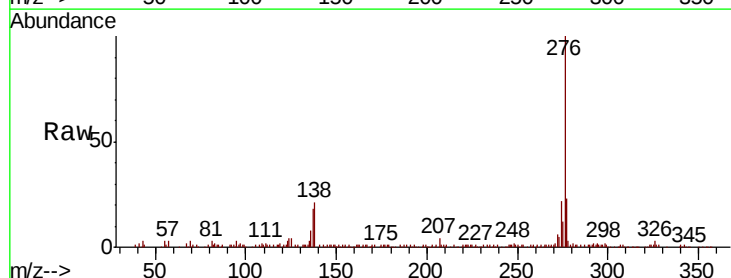
Tgt Ion:276 Resp: 199627

Ion Ratio Lower Upper

276 100

277 23.3 18.9 28.3

138 21.0 17.4 26.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

