

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082018\
 Data File : BF108305.D
 Acq On : 20 Aug 2018 22:07
 Operator : JU/SJ
 Sample : J4277-07 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-081718-B

Quant Time: Aug 21 00:54:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	164742	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	564052	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	239439	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	408360	20.00	ng	0.00
75) Chrysene-d12	14.22	240	289912	20.00	ng	0.00
86) Perylene-d12	15.79	264	230248	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.64	112	360453	39.61	ng	0.01
7) Phenol-d6	6.63	99	466188	38.55	ng	0.00
23) Nitrobenzene-d5	7.58	82	275531	27.26	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	86963	36.41	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	494467	33.15	ng	0.00
78) Terphenyl-d14	13.15	244	415071	36.40	ng	0.00

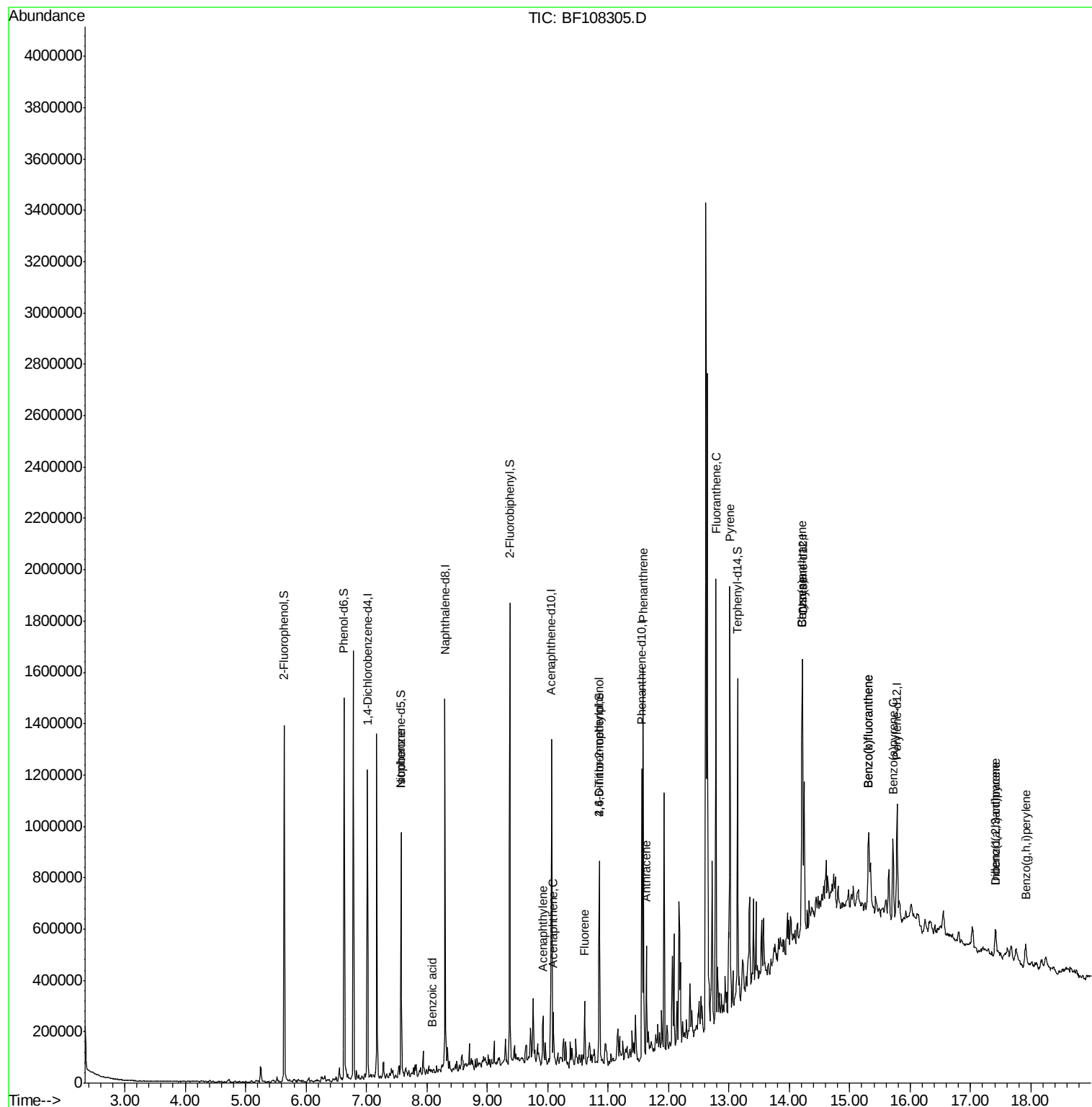
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.58	82	274726	14.259	ng	# 65
32) Benzoic acid	8.09	122	161	6.003	ng	# 24
48) Acenaphthylene	9.92	152	52957	2.401	ng	97
51) Acenaphthene	10.10	154	34374	2.544	ng	97
57) Fluorene	10.61	166	64192	4.143	ng	99
64) 4,6-Dinitro-2-methylphenol	10.85	198	139	5.439	ng	# 1
70) Phenanthrene	11.58	178	543247	28.205	ng	99
71) Anthracene	11.64	178	153098	7.755	ng	99
74) Fluoranthene	12.78	202	635821	30.247	ng	96
77) Pyrene	13.02	202	670457	36.528	ng	99
80) Benzo(a)anthracene	14.21	228	252794	15.194	ng	95
82) Chrysene	14.21	228	252794	16.573	ng	97
85) Indeno(1,2,3-cd)pyrene	17.41	276	71786	5.432	ng	# 89
87) Benzo(b)fluoranthene	15.31	252	251328	18.267	ng	95
88) Benzo(k)fluoranthene	15.31	252	251328	19.872	ng	95
89) Benzo(a)pyrene	15.72	252	153226	12.437	ng	97
90) Dibenzo(a,h)anthracene	17.42	278	21659	2.125	ng	# 68
91) Benzo(g,h,i)perylene	17.91	276	70955	7.069	ng	# 90

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

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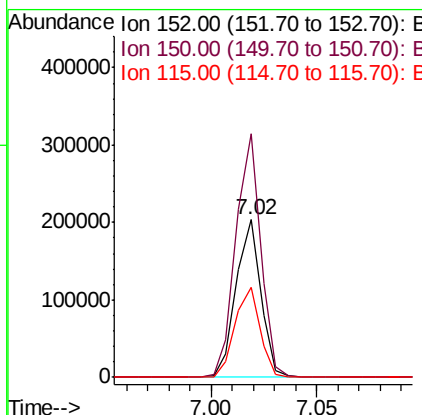
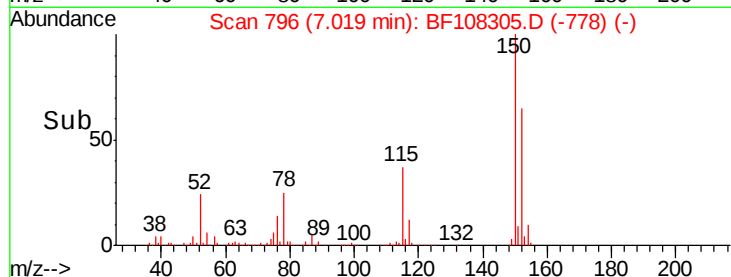
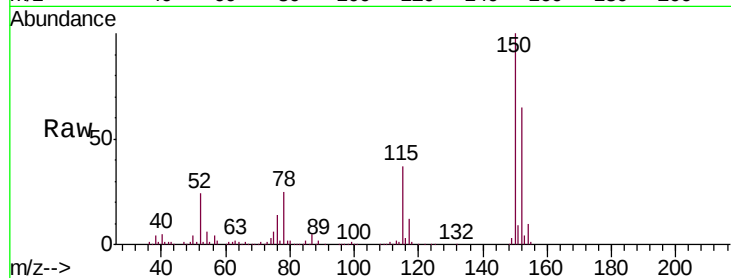


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Instrument :
BNA_F
ClientSampleId :
OR-03-081718-B

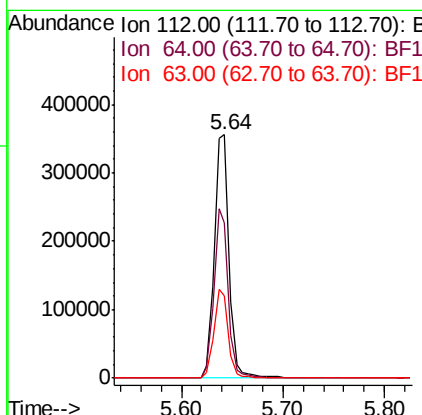
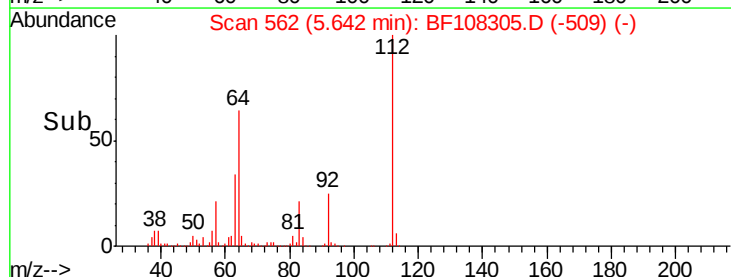
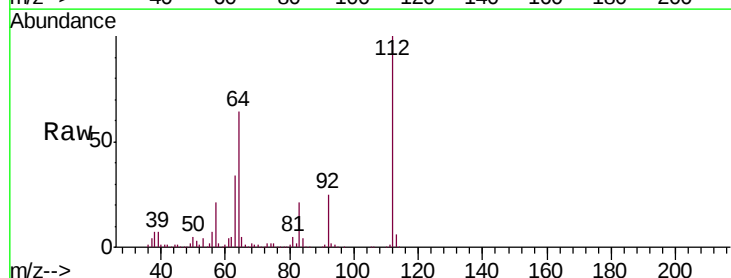
Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.6	186.8
115	57.5	50.1	75.1

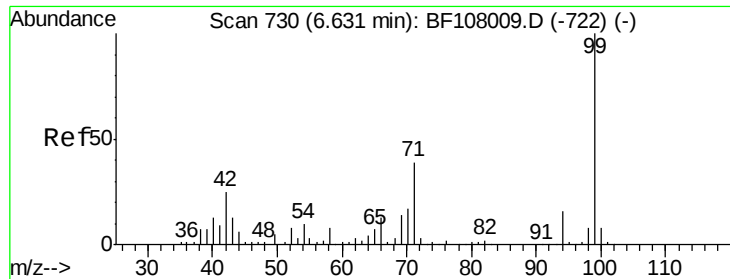


#5

2-Fluorophenol
Concen: 39.612 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.7	47.9	71.9
63	33.6	23.7	35.5





#7

Phenol-d6

Concen: 38.553 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

Instrument :

BNA_F

ClientSampleId :

OR-03-081718-B

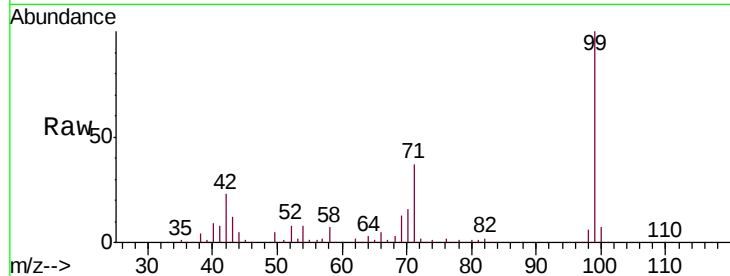
Tgt Ion: 99 Resp: 466188

Ion Ratio Lower Upper

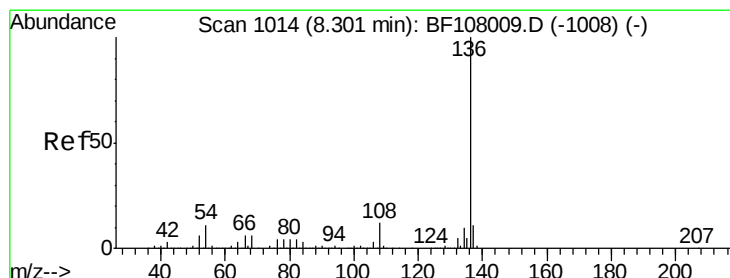
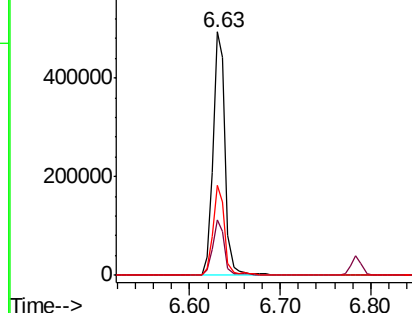
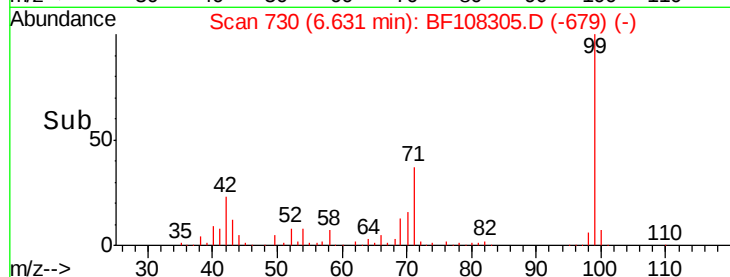
99 100

42 23.0 14.5 21.7#

71 37.0 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

Tgt Ion: 136 Resp: 564052

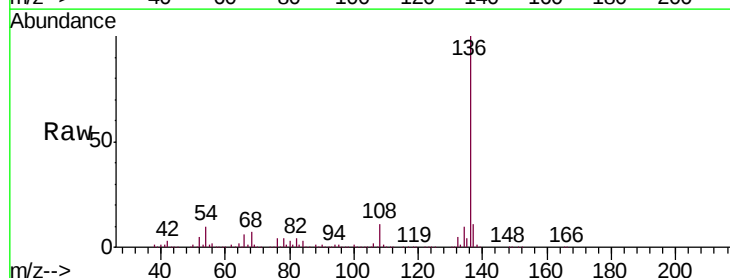
Ion Ratio Lower Upper

136 100

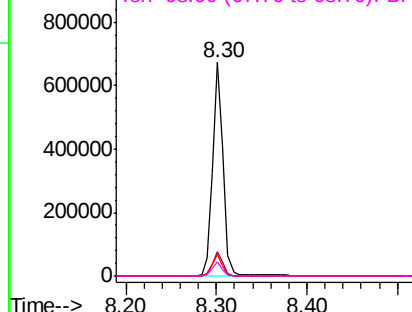
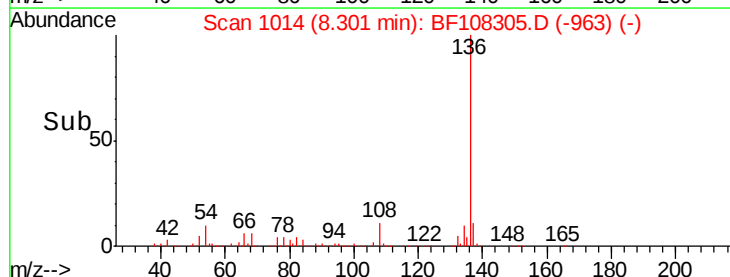
137 11.4 8.9 13.3

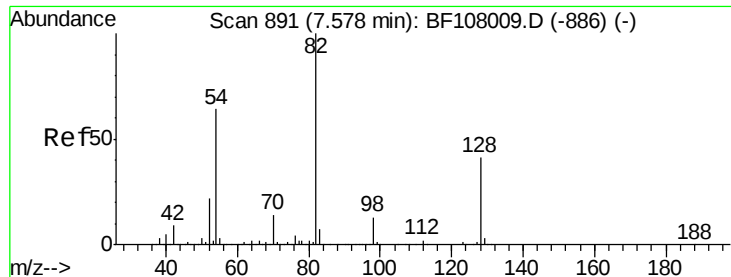
54 10.0 6.6 9.8#

68 6.5 5.0 7.4



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

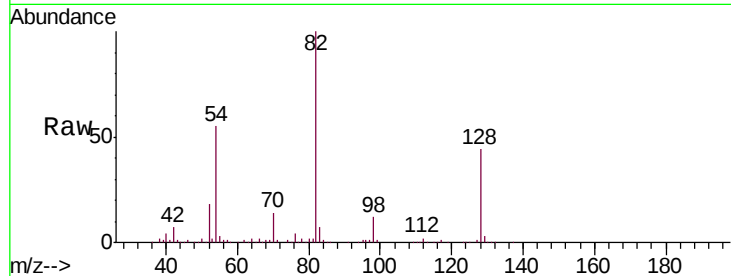




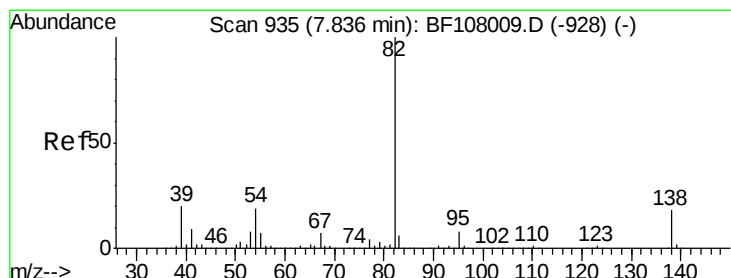
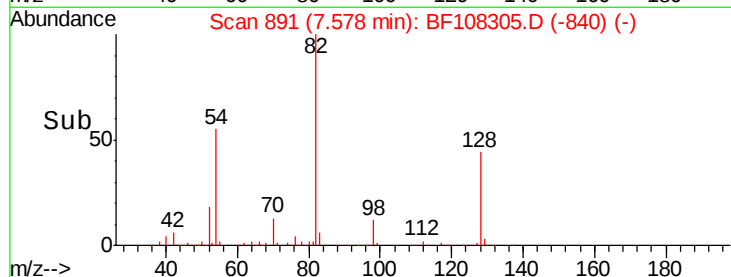
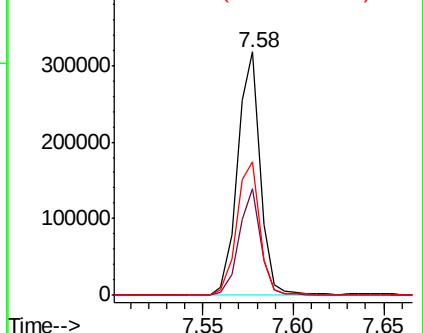
#23
Nitrobenzene-d5
Concen: 27.258 ng
RT: 7.58 min Scan# 891
Delta R.T. 0.00 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Instrument :
BNA_F
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OR-03-081718-B

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.8	36.1	54.1
54	55.0	41.4	62.2

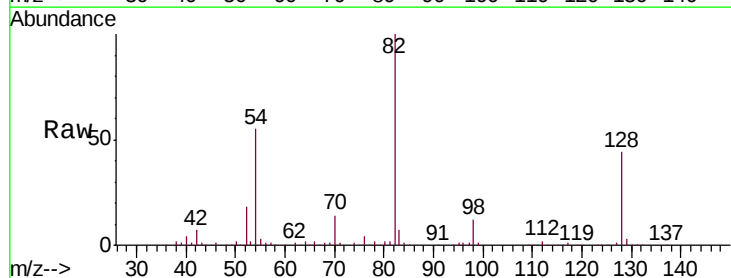


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

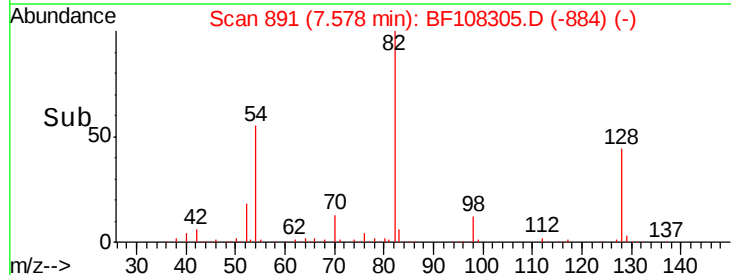
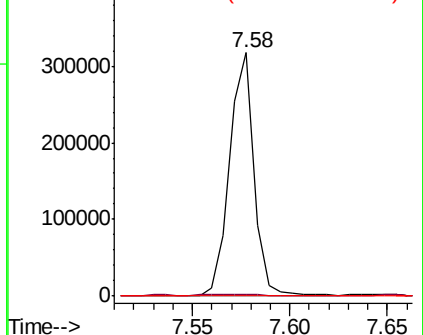


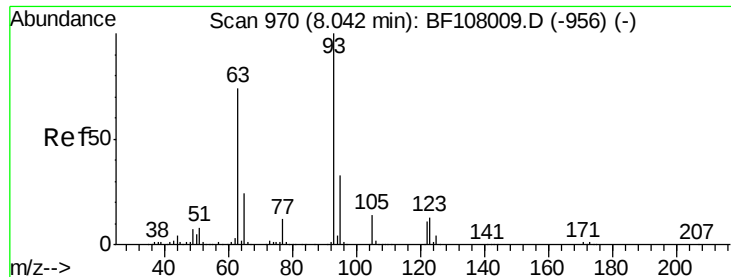
#25
Isophorone
Concen: 14.259 ng
RT: 7.58 min Scan# 891
Delta R.T. -0.26 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.5	5.2	7.8#
138	0.0	14.9	22.3#



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

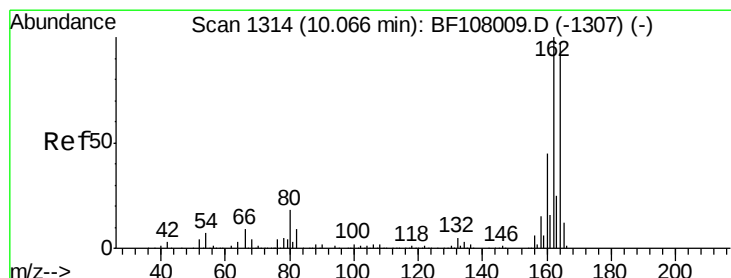
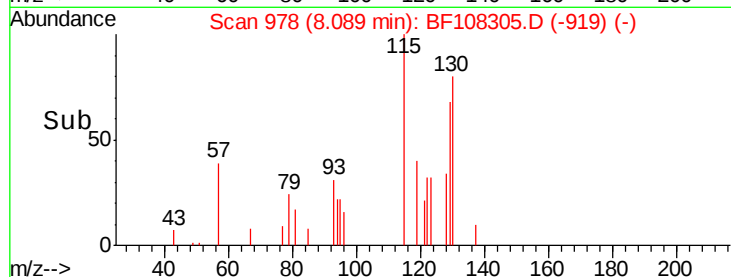
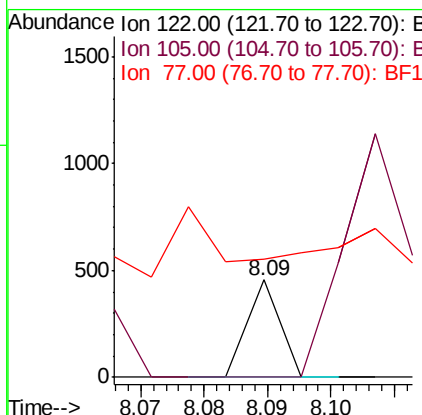
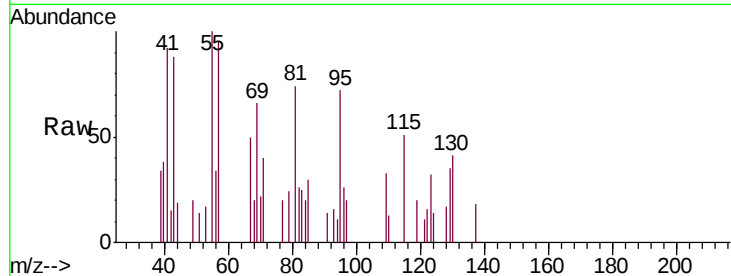




#32
Benzoic acid
Concen: 6.003 ng
RT: 8.09 min Scan# 978
Delta R.T. 0.05 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

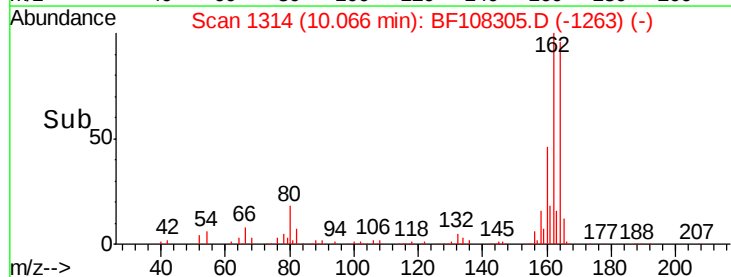
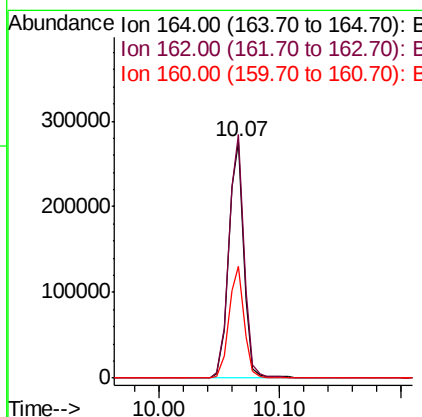
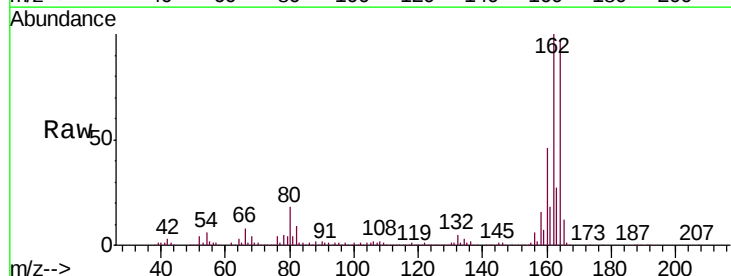
Instrument :
BNA_F
ClientSampleId :
OR-03-081718-B

Tgt Ion:122 Resp: 161
Ion Ratio Lower Upper
122 100
105 0.0 101.1 141.1#
77 121.7 70.7 110.7#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.07 min Scan# 1314
Delta R.T. 0.00 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Tgt Ion:164 Resp: 239439
Ion Ratio Lower Upper
164 100
162 103.0 86.1 129.1
160 47.1 38.3 57.5

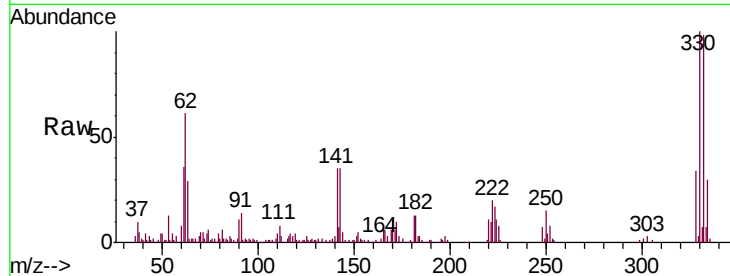




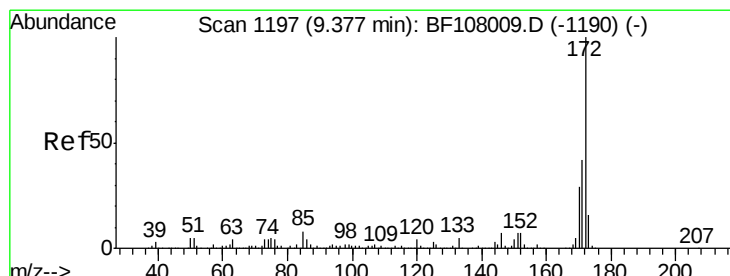
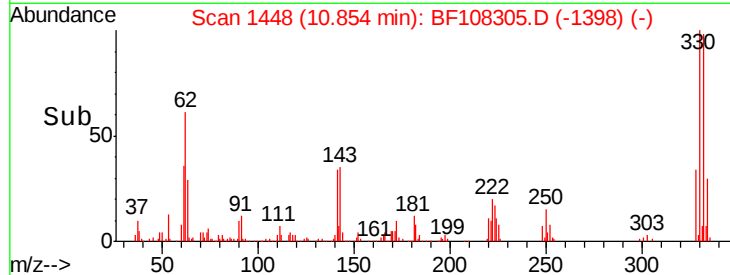
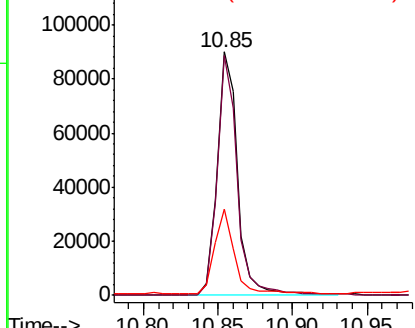
#41
 2,4,6-Tribromophenol
 Concen: 36.411 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-081718-B

Tgt Ion:330 Resp: 86963
 Ion Ratio Lower Upper
 330 100
 332 95.8 77.0 115.6
 141 33.5 29.9 44.9

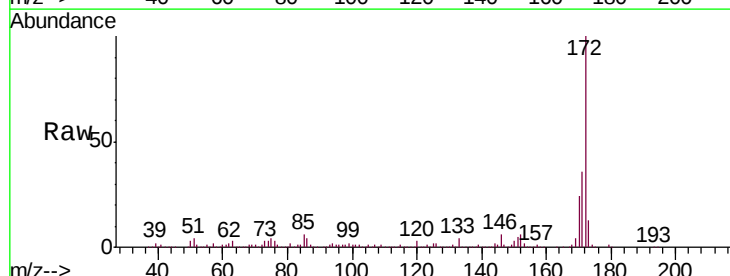


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

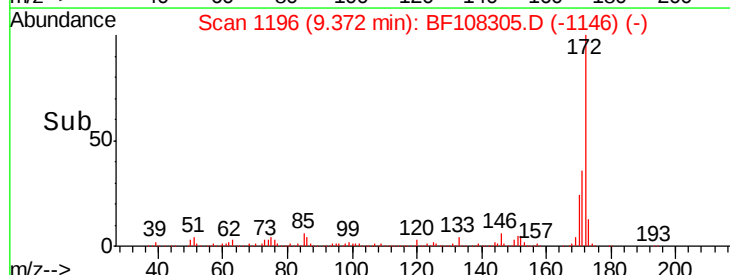
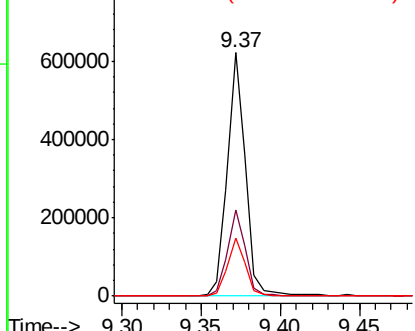


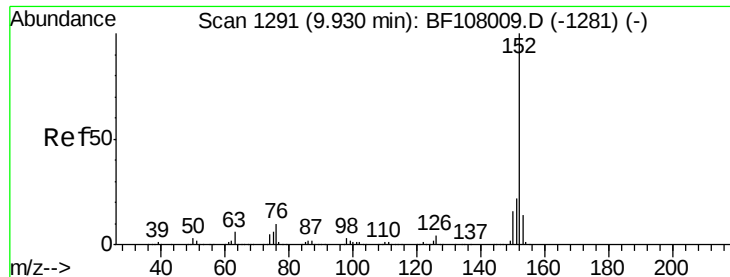
#44
 2-Fluorobiphenyl
 Concen: 33.155 ng
 RT: 9.37 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Tgt Ion:172 Resp: 494467
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.7 44.5
 170 24.0 19.6 29.4



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





#48

Acenaphthylene

Concen: 2.401 ng

RT: 9.92 min Scan# 1290

Delta R.T. -0.01 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

Instrument :

BNA_F

ClientSampleId :

OR-03-081718-B

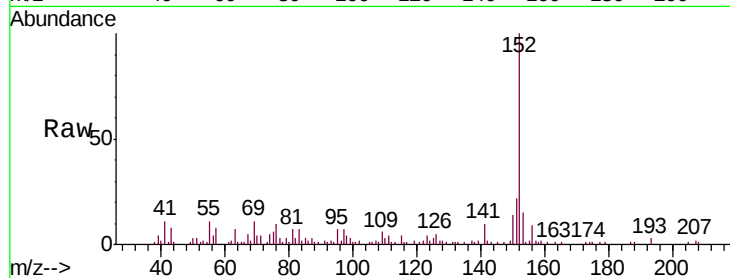
Tgt Ion:152 Resp: 52957

Ion Ratio Lower Upper

152 100

151 21.7 16.3 24.5

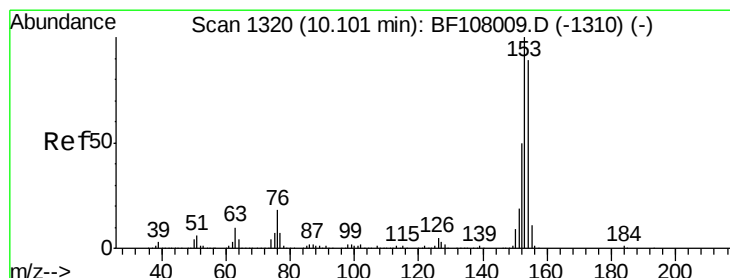
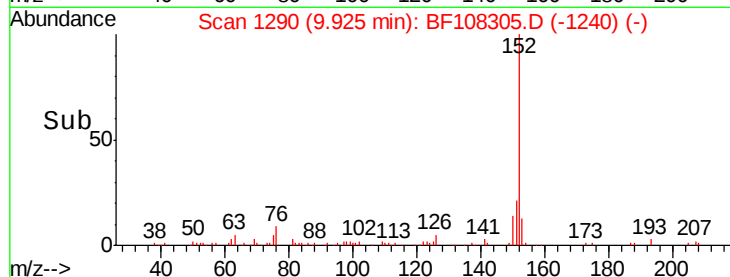
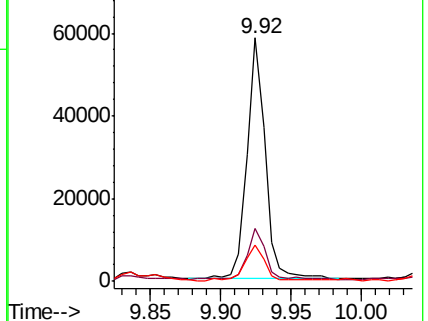
153 14.9 10.7 16.1



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



#51

Acenaphthene

Concen: 2.544 ng

RT: 10.10 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

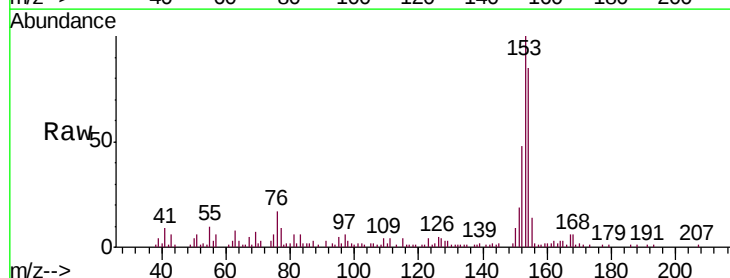
Tgt Ion:154 Resp: 34374

Ion Ratio Lower Upper

154 100

153 117.7 91.2 136.8

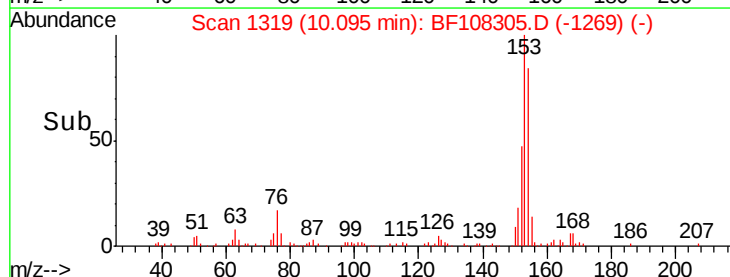
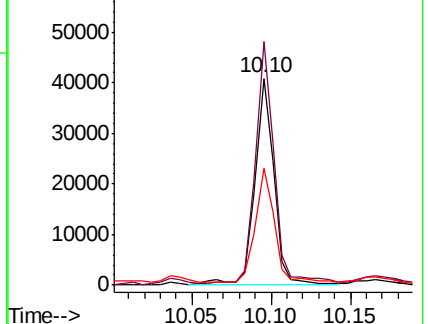
152 56.3 43.8 65.8

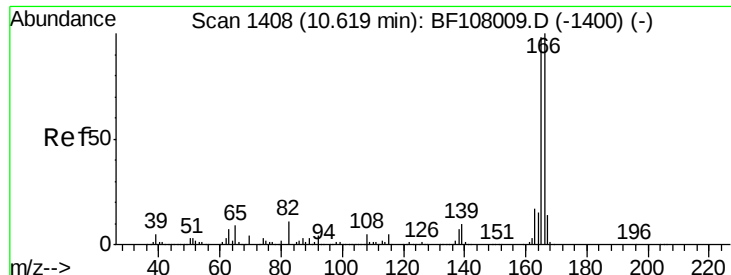


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

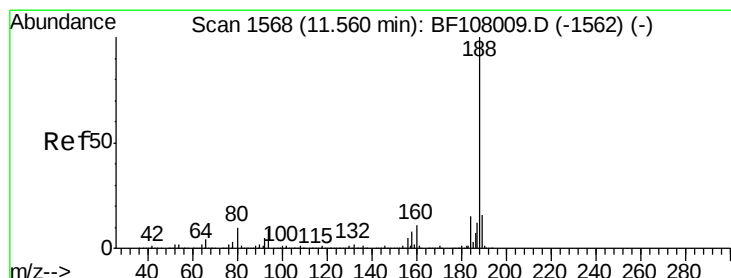
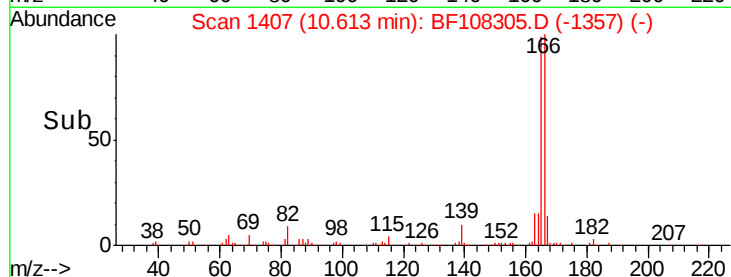
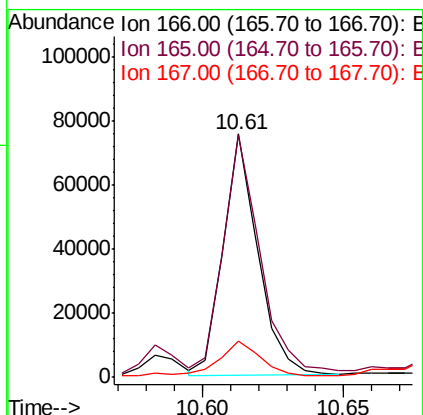
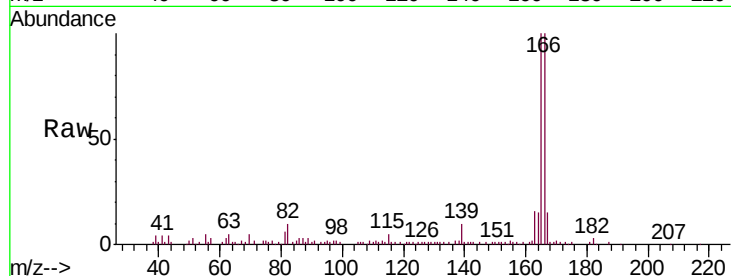




#57
Fluorene
 Concen: 4.143 ng
 RT: 10.61 min Scan# 1407
 Delta R.T. -0.01 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

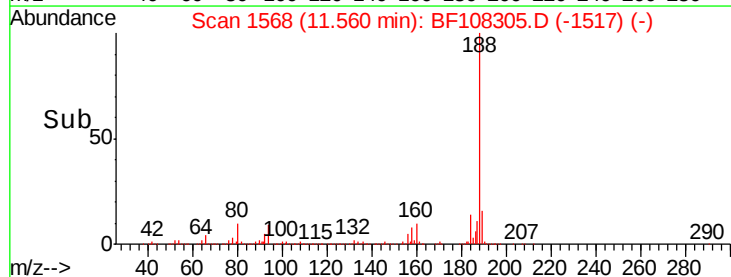
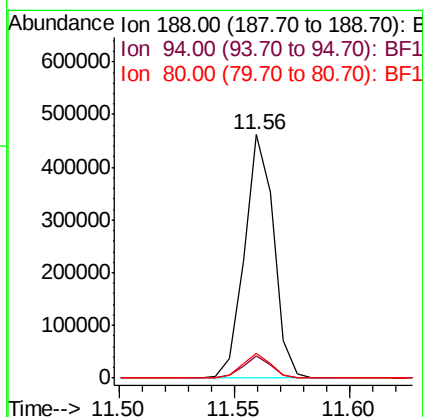
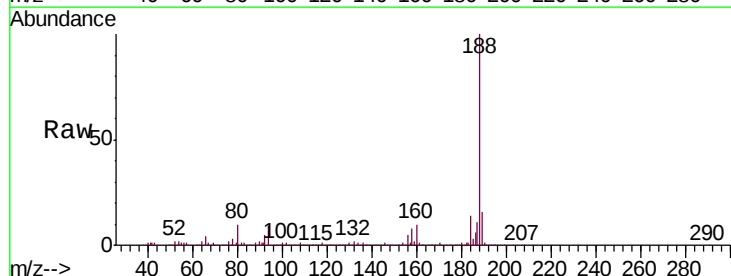
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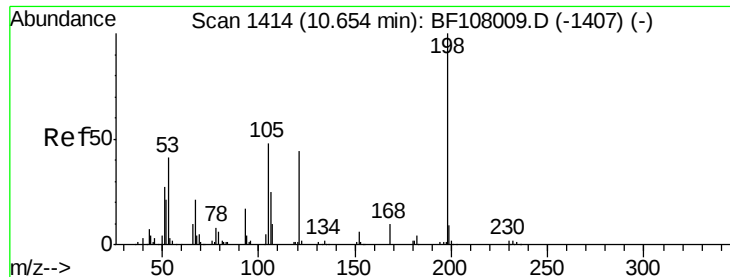
Tgt Ion:166 Resp: 64192
 Ion Ratio Lower Upper
 166 100
 165 99.6 79.8 119.8
 167 14.9 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.56 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Tgt Ion:188 Resp: 408360
 Ion Ratio Lower Upper
 188 100
 94 9.2 8.5 12.7
 80 10.1 9.2 13.8

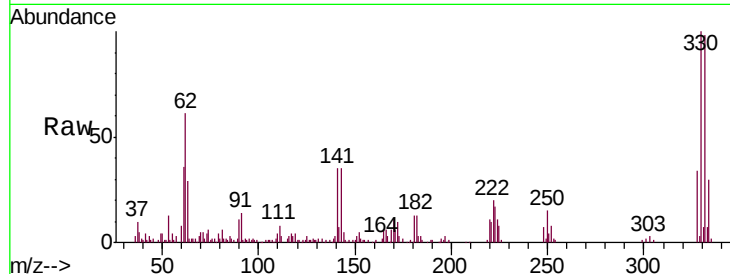




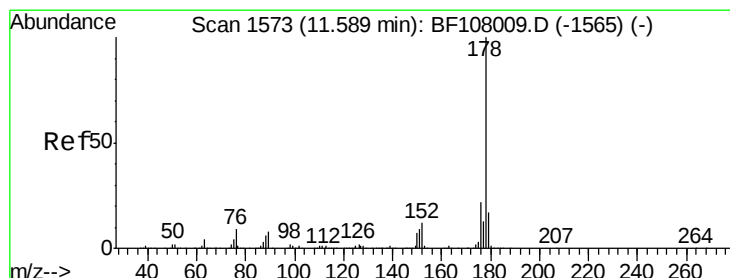
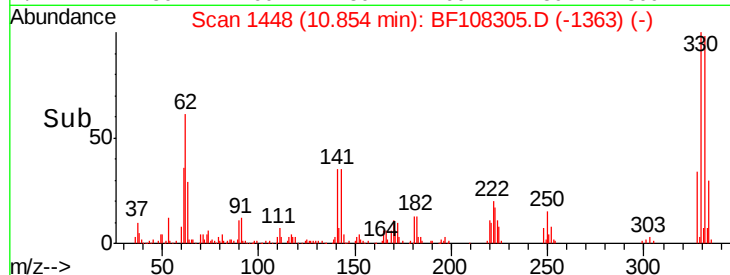
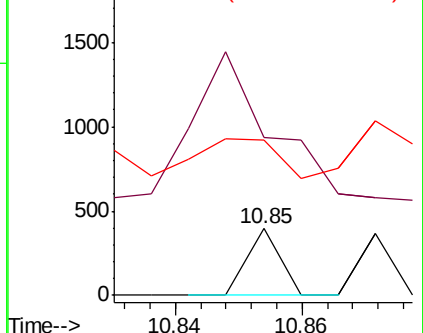
#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.439 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. 0.20 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-081718-B

Tgt Ion:198 Resp: 139
 Ion Ratio Lower Upper
 198 100
 51 236.7 37.7 77.7#
 105 233.4 36.3 76.3#

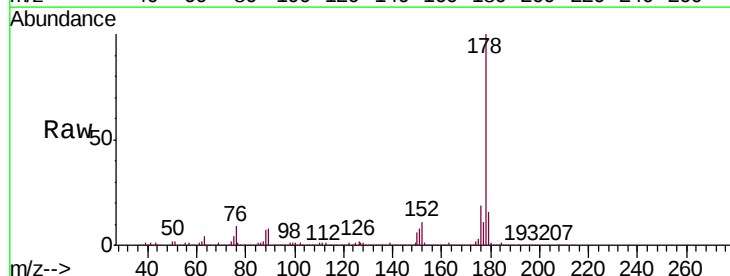


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

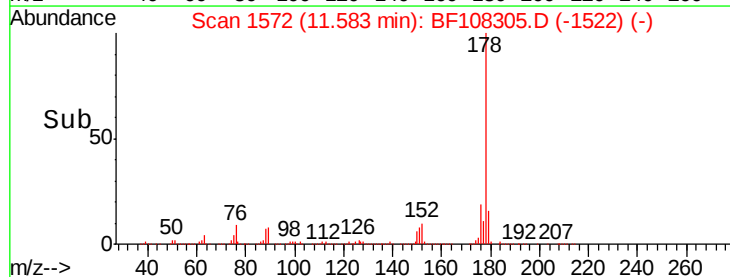
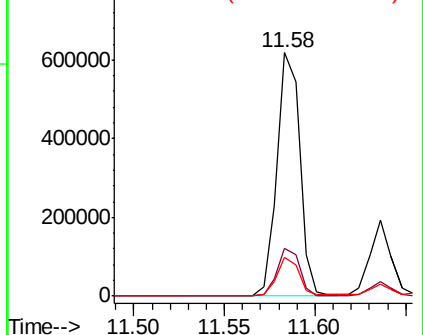


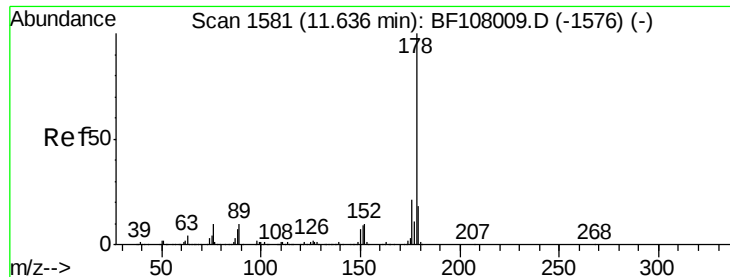
#70
 Phenanthrene
 Concen: 28.205 ng
 RT: 11.58 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Tgt Ion:178 Resp: 543247
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.8 23.8
 179 16.0 13.0 19.6



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

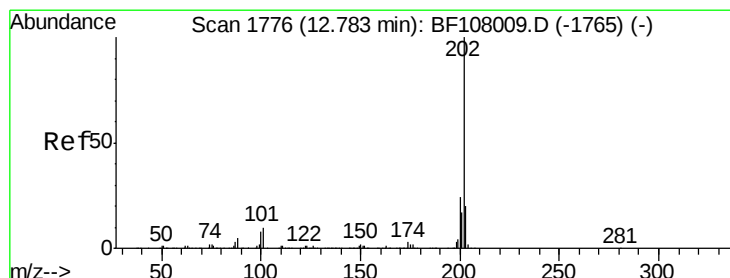
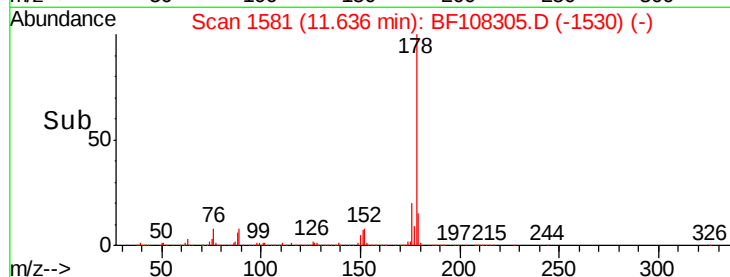
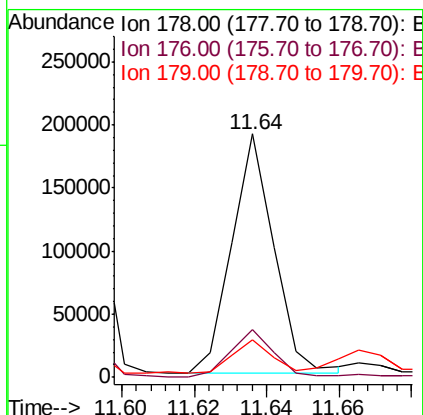
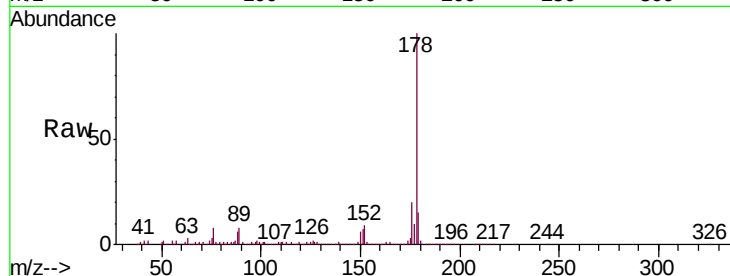




#71
 Anthracene
 Concen: 7.755 ng
 RT: 11.64 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

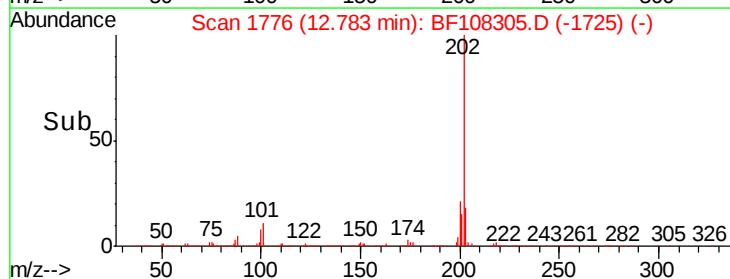
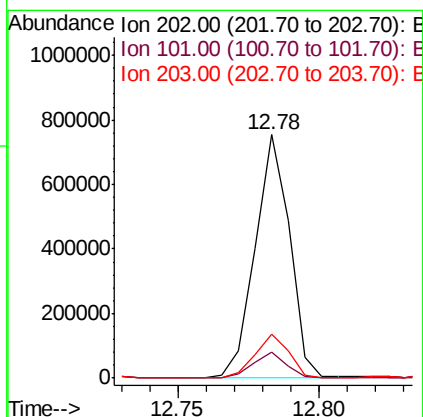
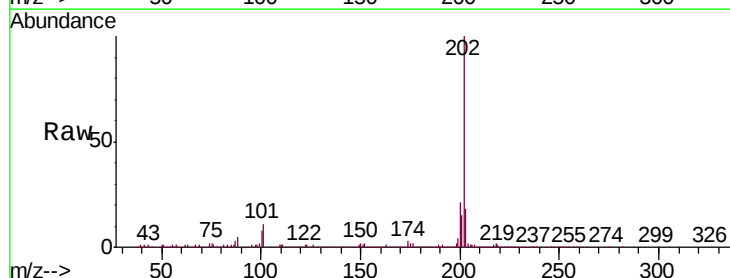
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-081718-B

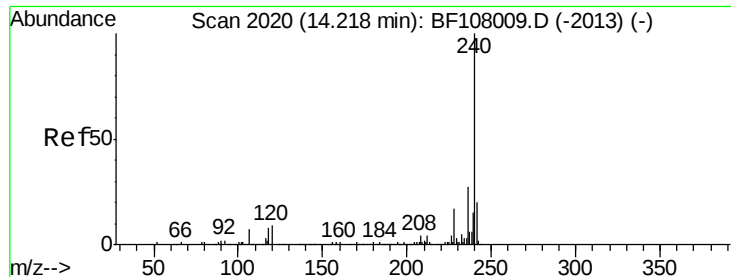
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	15.4	12.6	19.0



#74
 Fluoranthene
 Concen: 30.247 ng
 RT: 12.78 min Scan# 1776
 Delta R.T. 0.00 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.22 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

Instrument :

BNA_F

ClientSampleId :

OR-03-081718-B

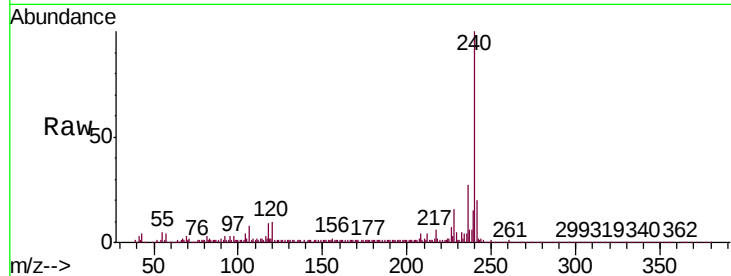
Tgt Ion:240 Resp: 289912

Ion Ratio Lower Upper

240 100

120 9.6 9.5 14.3

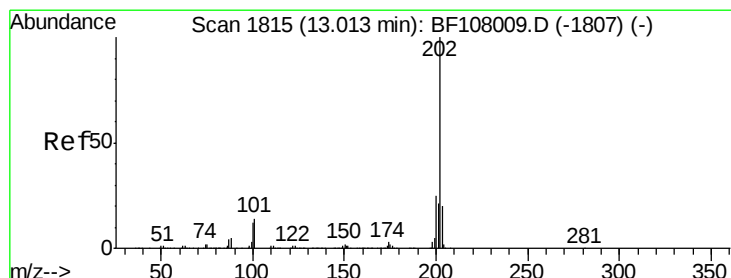
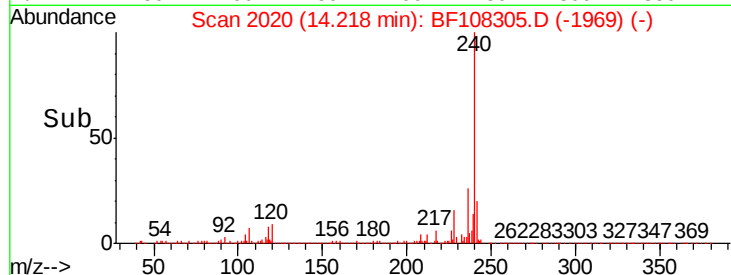
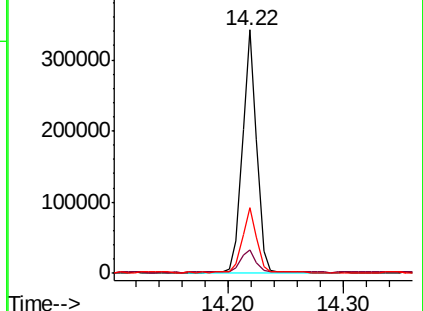
236 26.8 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 36.528 ng

RT: 13.02 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

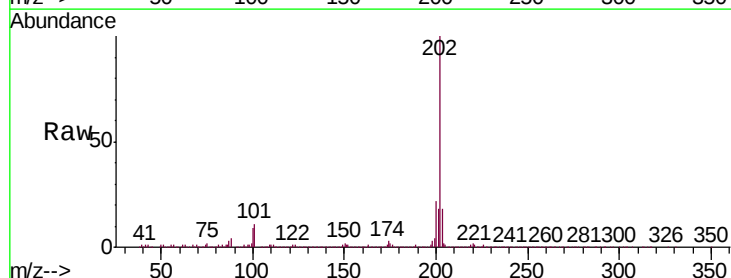
Tgt Ion:202 Resp: 670457

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

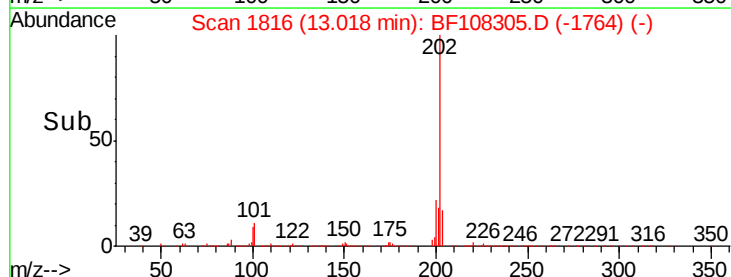
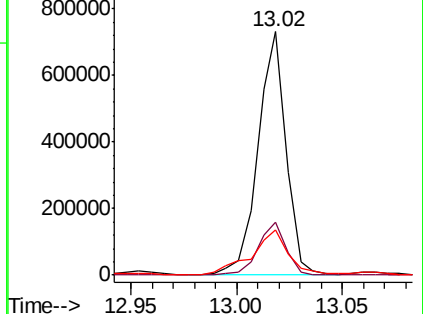
203 18.5 14.3 21.5

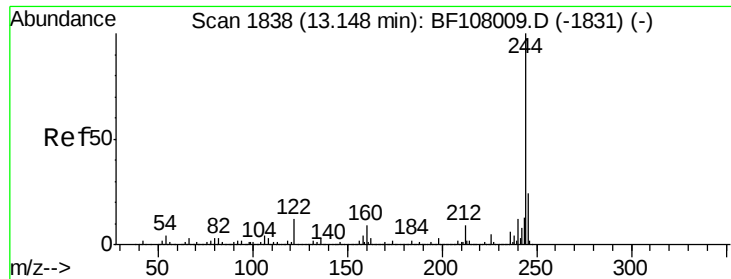


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

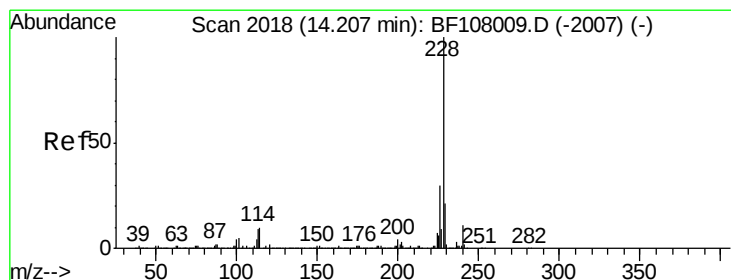
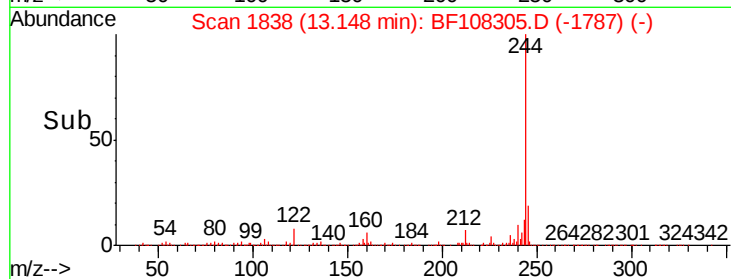
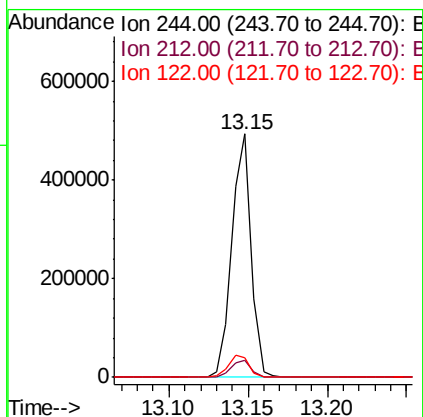
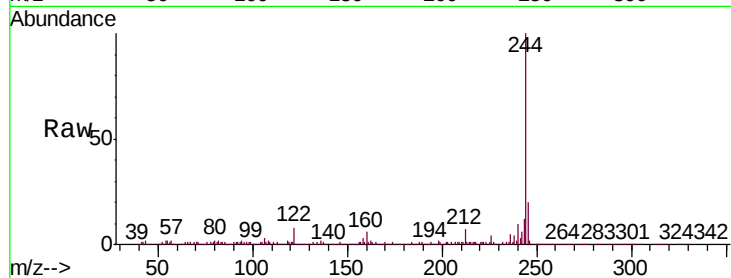




#78
 Terphenyl-d14
 Concen: 36.402 ng
 RT: 13.15 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

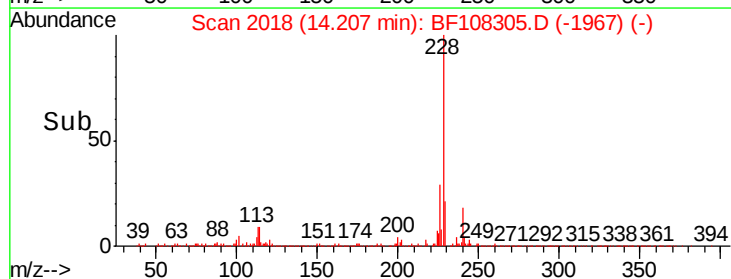
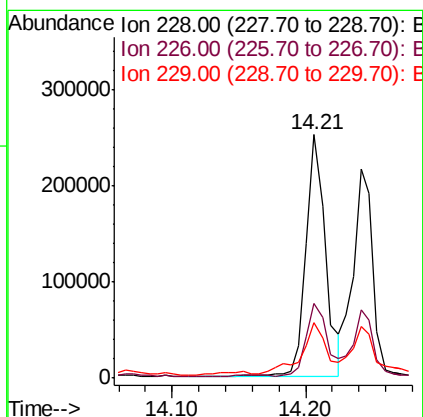
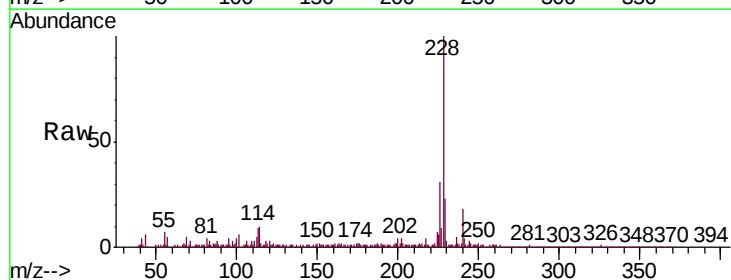
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-081718-B

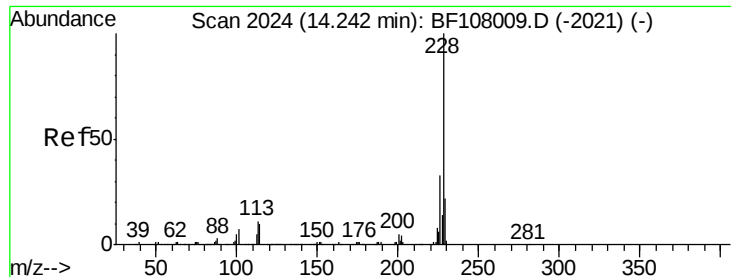
Tgt Ion:244 Resp: 415071
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 8.0 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 15.194 ng
 RT: 14.21 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: BF108305.D
 Acq: 20 Aug 2018 22:07

Tgt Ion:228 Resp: 252794
 Ion Ratio Lower Upper
 228 100
 226 30.5 22.6 33.8
 229 22.7 15.8 23.6





#82

Chrysene

Concen: 16.573 ng

RT: 14.21 min Scan# 2018

Delta R.T. -0.04 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

Instrument :

BNA_F

ClientSampleId :

OR-03-081718-B

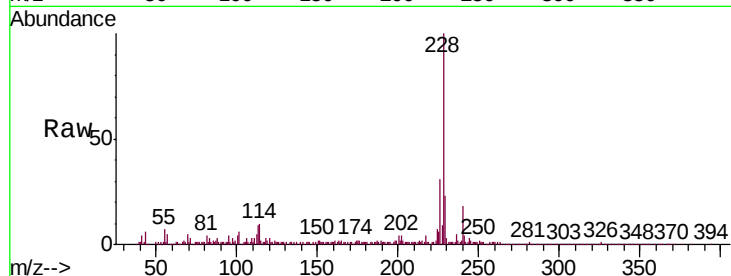
Tgt Ion:228 Resp: 252794

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

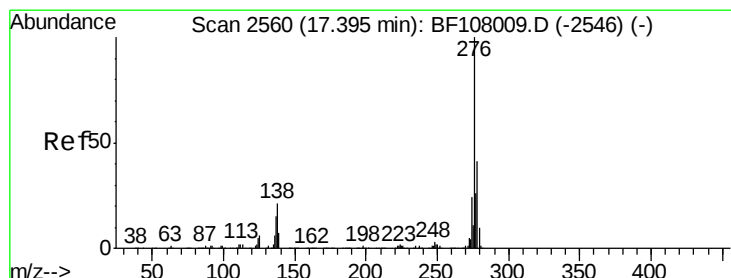
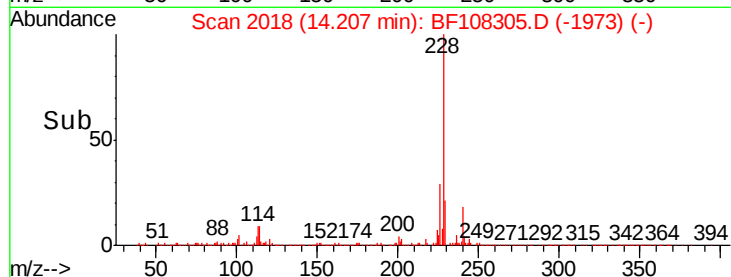
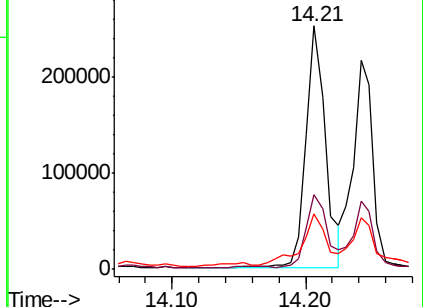
229 22.7 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.432 ng

RT: 17.41 min Scan# 2563

Delta R.T. 0.02 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

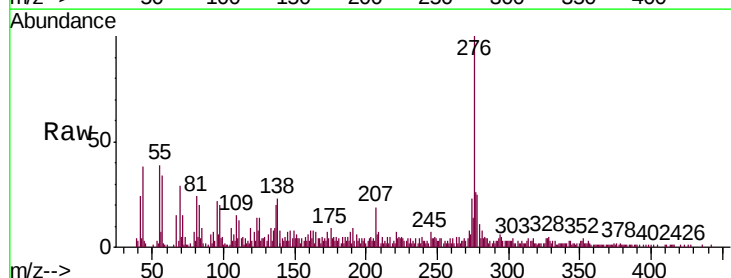
Tgt Ion:276 Resp: 71786

Ion Ratio Lower Upper

276 100

138 20.7 25.0 37.6#

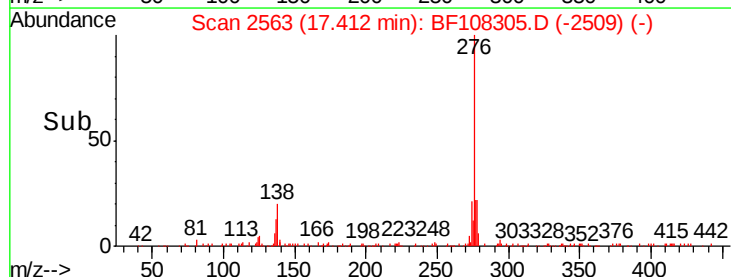
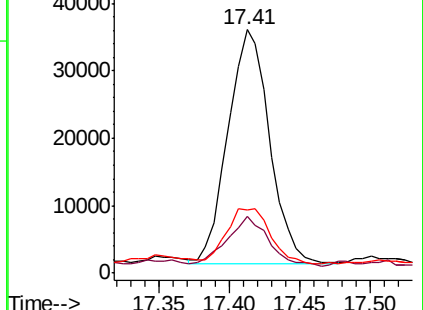
277 25.9 20.1 30.1

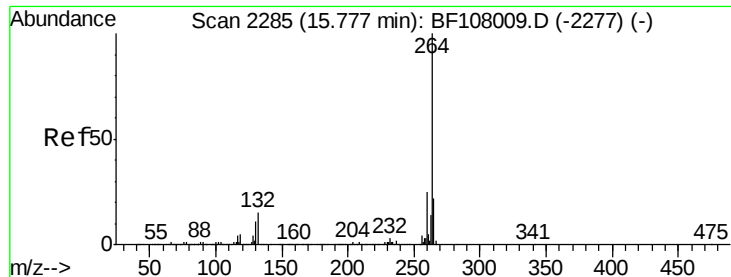


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

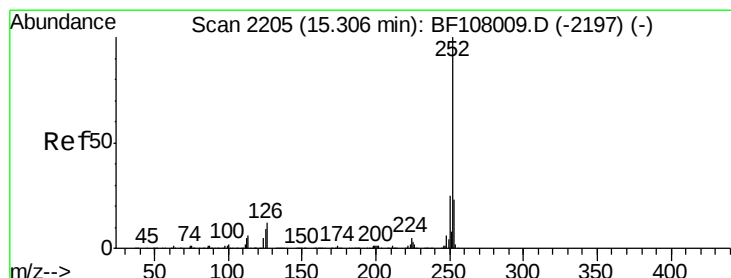
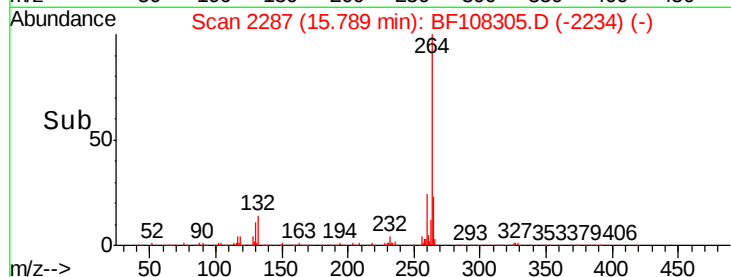
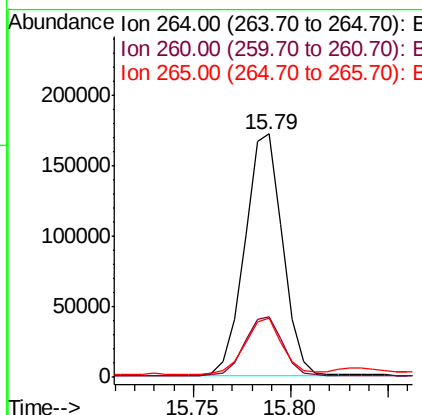
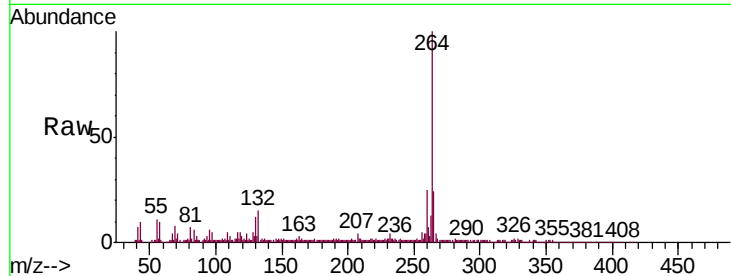




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

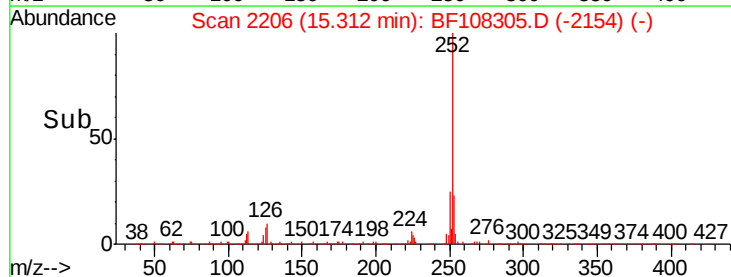
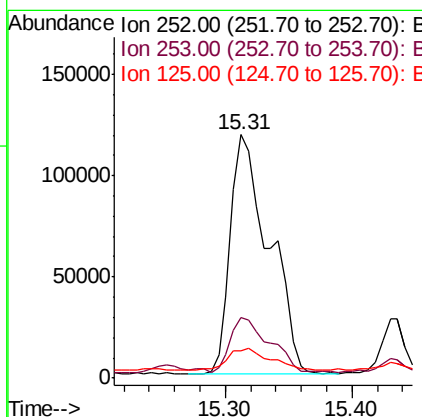
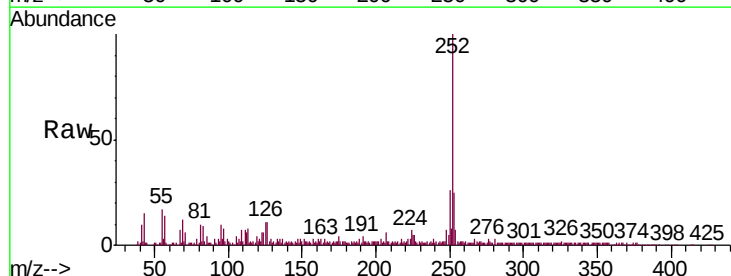
Instrument :
BNA_F
ClientSampleId :
OR-03-081718-B

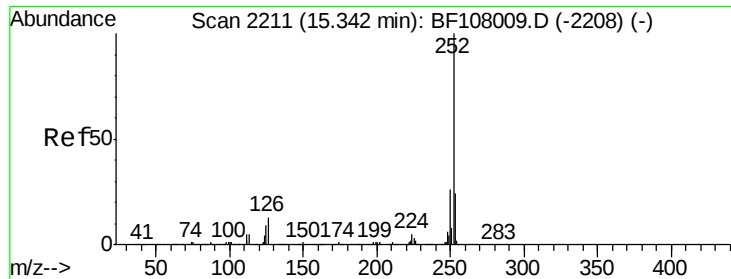
Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	24.2	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 18.267 ng
RT: 15.31 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.0	25.6
125	11.4	9.0	13.6

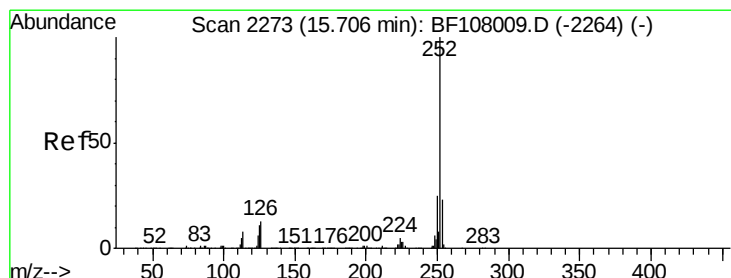
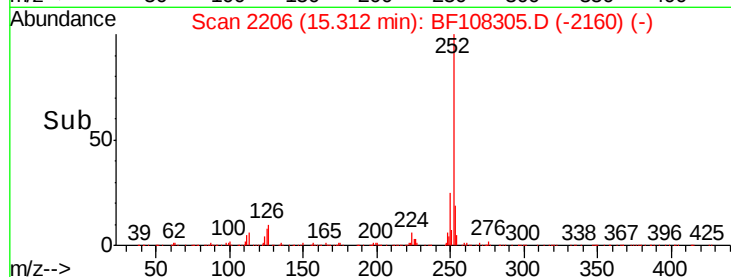
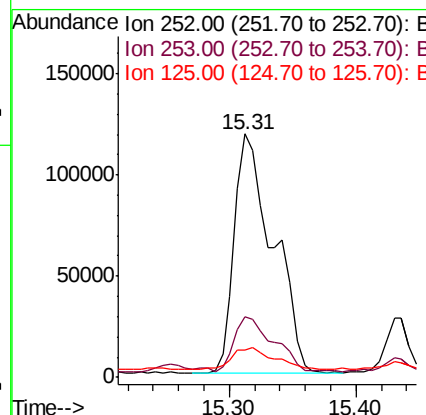
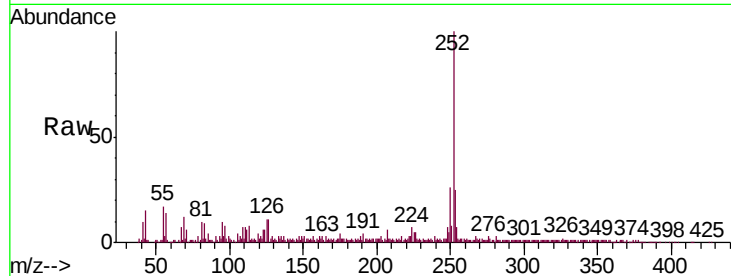




#88
Benzo(k)fluoranthene
Concen: 19.872 ng
RT: 15.31 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

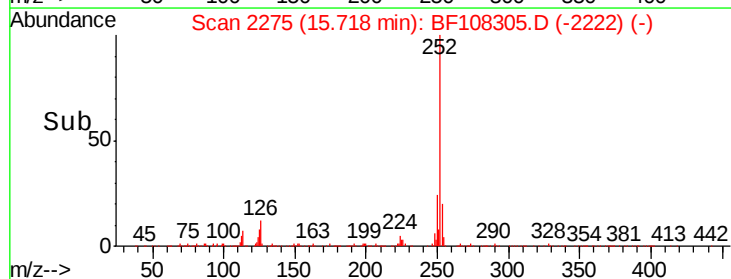
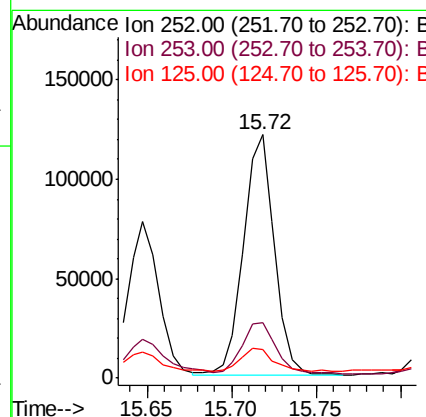
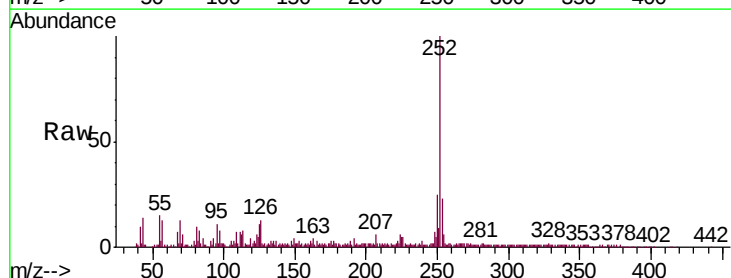
Instrument :
BNA_F
ClientSampleId :
OR-03-081718-B

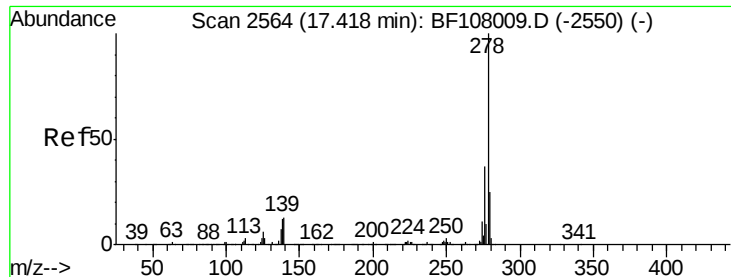
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.9	26.9
125	11.4	10.2	15.2



#89
Benzo(a)pyrene
Concen: 12.437 ng
RT: 15.72 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF108305.D
Acq: 20 Aug 2018 22:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	11.5	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.125 ng

RT: 17.42 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

Instrument :

BNA_F

ClientSampleId :

OR-03-081718-B

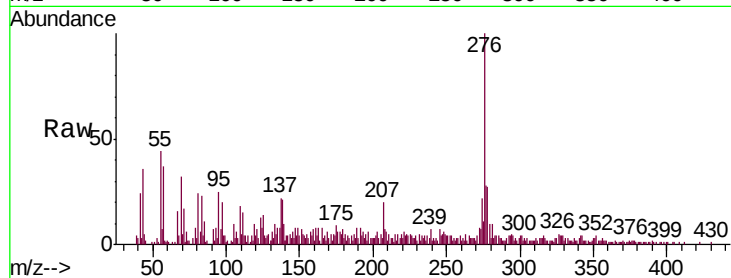
Tgt Ion:278 Resp: 21659

Ion Ratio Lower Upper

278 100

139 37.1 15.9 23.9#

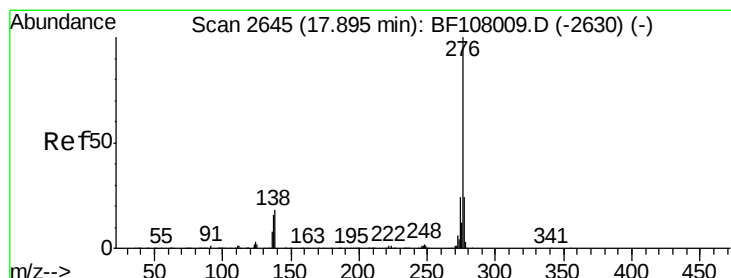
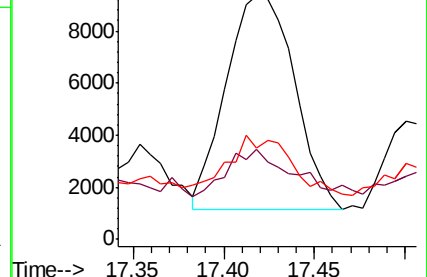
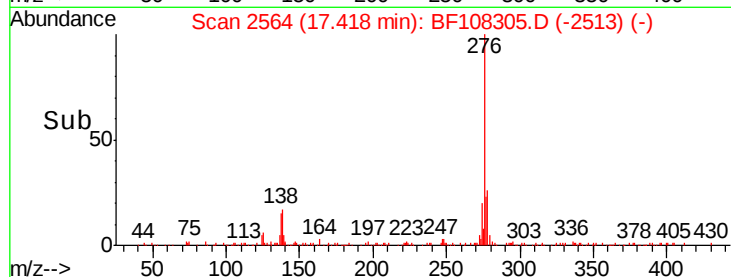
279 37.3 19.0 28.4#



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



#91

Benzo(g,h,i)perylene

Concen: 7.069 ng

RT: 17.91 min Scan# 2648

Delta R.T. 0.02 min

Lab File: BF108305.D

Acq: 20 Aug 2018 22:07

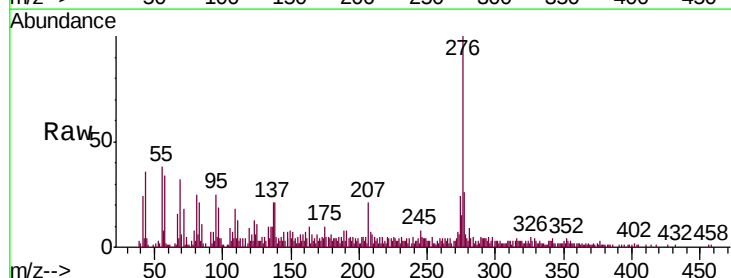
Tgt Ion:276 Resp: 70955

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 21.1 21.8 32.8#



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

