

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121715.D
 Acq On : 28 Sep 2020 16:40
 Operator : JU/CG
 Sample : L4154-09
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

Manual Integrations
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Quant Time: Sep 28 18:35:12 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 28 11:40:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	152669	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	593979	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	298291	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	471754	20.00	ng	0.00
76) Chrysene-d12	13.97	240	256418	20.00	ng	0.01
86) Perylene-d12	15.42	264	325949	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	660537	64.30	ng	0.00
7) Phenol-d6	6.43	99	898887	66.70	ng	0.00
23) Nitrobenzene-d5	7.36	82	615010	55.59	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	195155	52.64	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	1092413	55.47	ng	0.00
79) Terphenyl-d14	12.90	244	788833	62.32	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	348717	11.121	ng	99
37) 2-Methylnaphthalene	8.79	142	161930	7.880	ng	97
38) 1-Methylnaphthalene	8.89	142	147543	7.715	ng	100
46) 1,1'-Biphenyl	9.25	154	73675	3.085	ng	96
49) Acenaphthylene	9.69	152	117250	4.055	ng	98
50) Dimethylphthalate	9.55	163	122125	5.649	ng	100
52) Acenaphthene	9.86	154	484941	26.554	ng	99
55) Dibenzofuran	10.03	168	688489	26.771	ng	98
58) Fluorene	10.38	166	749706	38.120	ng	99
71) Phenanthrene	11.37	178	5471819	212.885	ng	96
72) Anthracene	11.41	178	2273949	85.730	ng	99
73) Carbazole	11.55	167	652715	27.269	ng	99
75) Fluoranthene	12.56	202	5325135	194.080	ng	97
78) Pyrene	12.78	202	4262404	227.514	ng	96
81) Benzo(a)anthracene	13.96	228	2543778	156.808	ng	97
83) Chrysene	14.00	228	2010851	122.410	ng	96
87) Indeno(1,2,3-cd)pyrene	16.86	276	1383340	65.169	ng	96
88) Benzo(b)fluoranthene	15.01	252	2870725m	131.745	ng	
89) Benzo(k)fluoranthene	15.03	252	892484m	44.727	ng	
90) Benzo(a)pyrene	15.37	252	2033549	109.789	ng	96
91) Dibenzo(a,h)anthracene	16.86	278	389963	22.069	ng	94
92) Benzo(g,h,i)perylene	17.30	276	1154826	66.488	ng	98

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

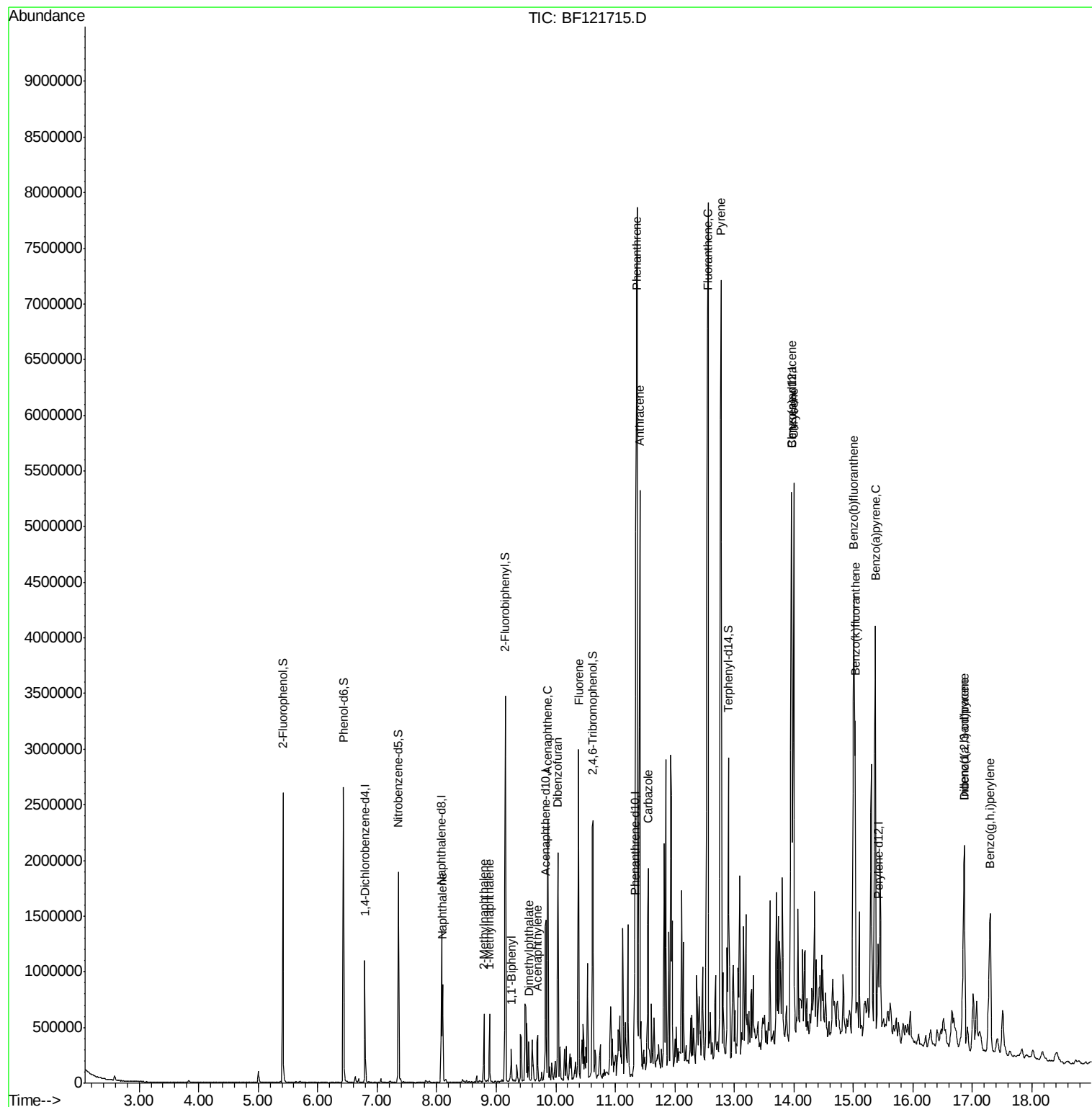
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121715.D
Acq On : 28 Sep 2020 16:40
Operator : JU/CG
Sample : L4154-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
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B-5(11-13)

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Quant Time: Sep 28 18:35:12 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 28 11:40:42 2020
Response via : Initial Calibration





#1

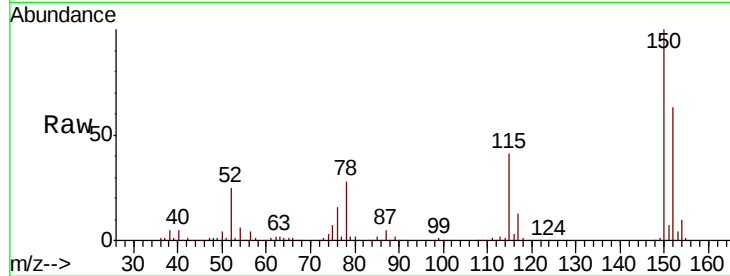
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	122.6	184.0
115	66.1	47.1	70.7

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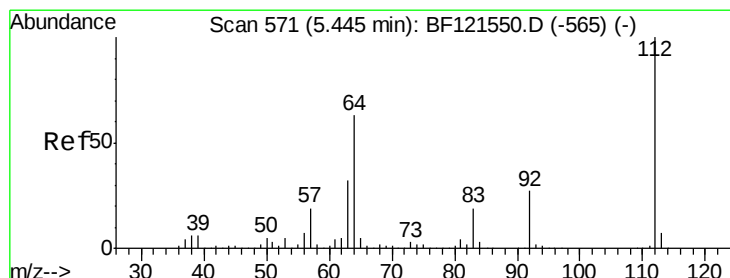
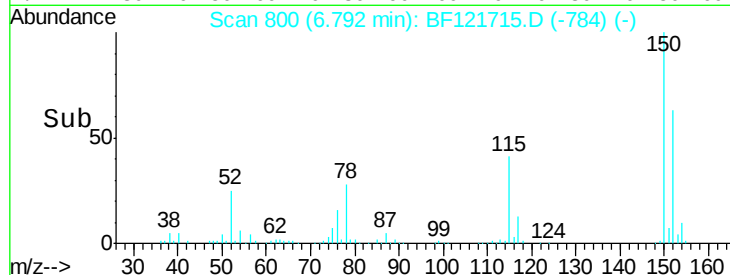
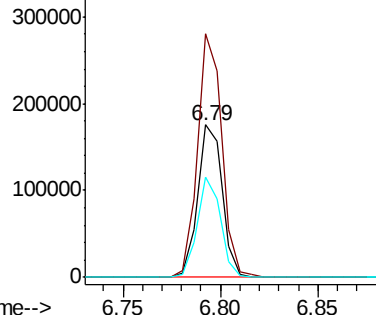


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

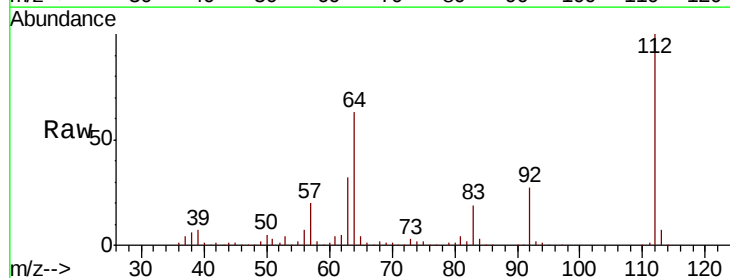
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 64.299 ng
 RT: 5.42 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.0	49.5	74.3
63	31.9	25.4	38.0

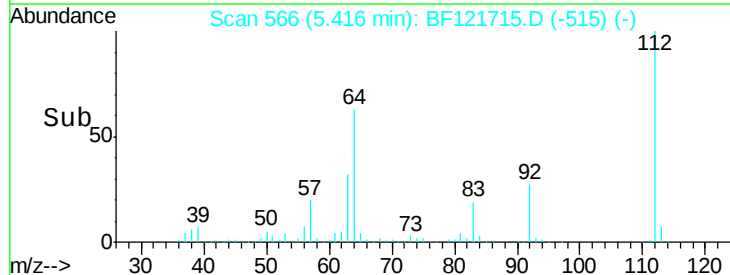
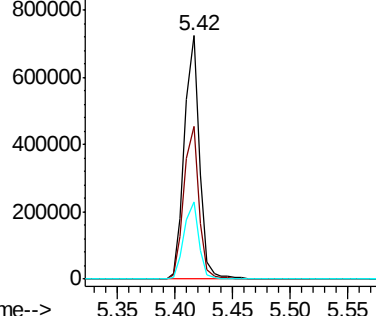


Abundance

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: 66.695 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Instrument :

BNA_F

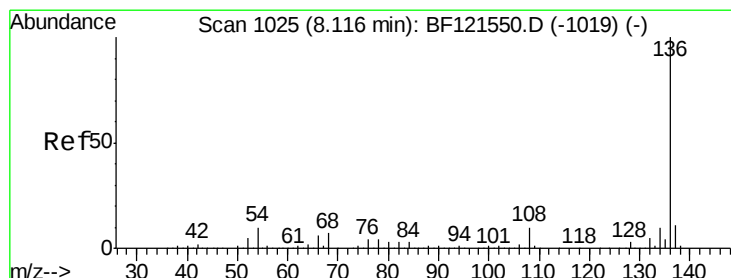
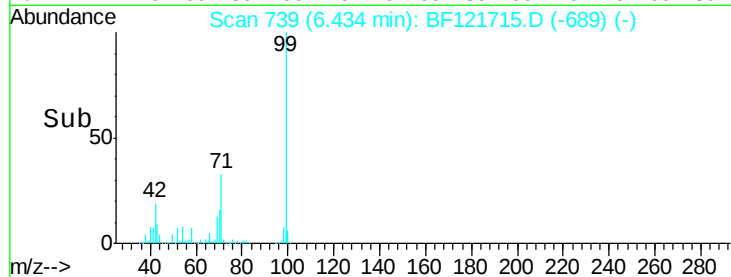
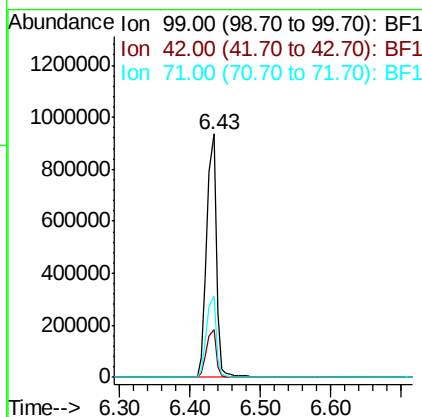
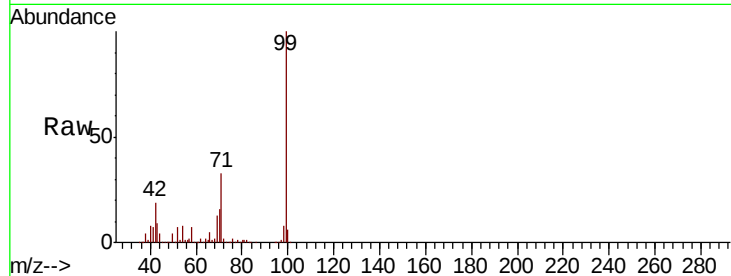
ClientSampleId :

B-5(11-13)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		898887		
42	19.4	16.1	24.1		
71	33.4	27.6	41.4		

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#21

Naphthalene-d8

Concen: 20.000 ng

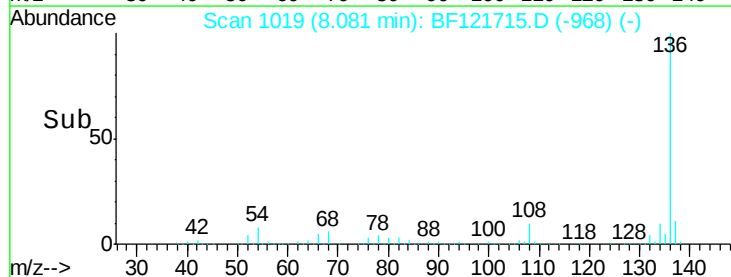
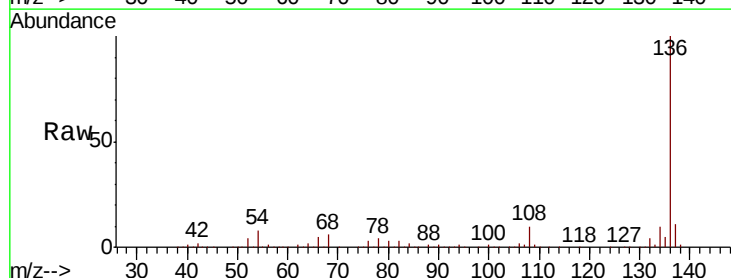
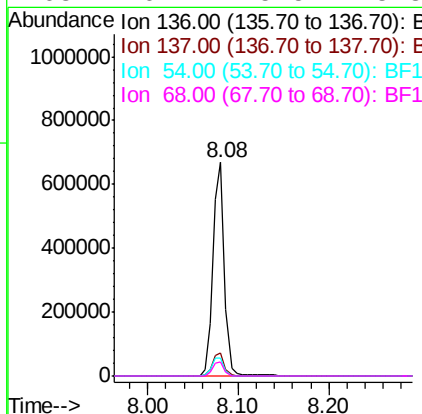
RT: 8.08 min Scan# 1019

Delta R.T. 0.00 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		593979		
137	10.9	8.8	13.2		
54	8.5	7.5	11.3		
68	6.4	5.5	8.3		





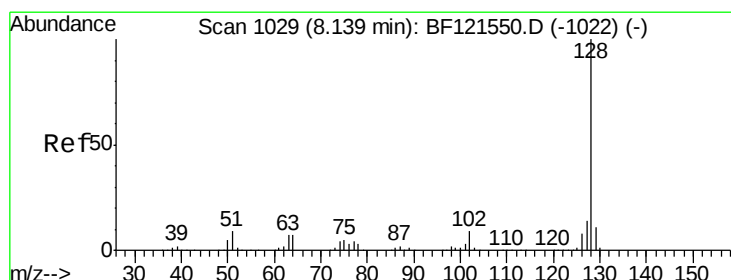
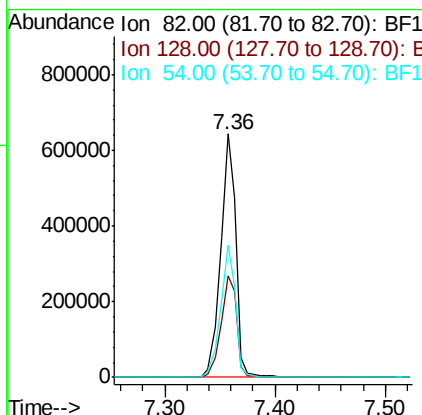
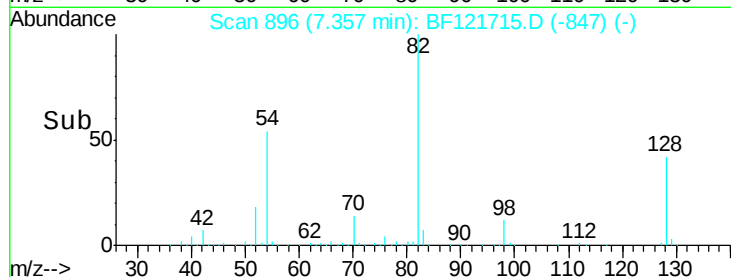
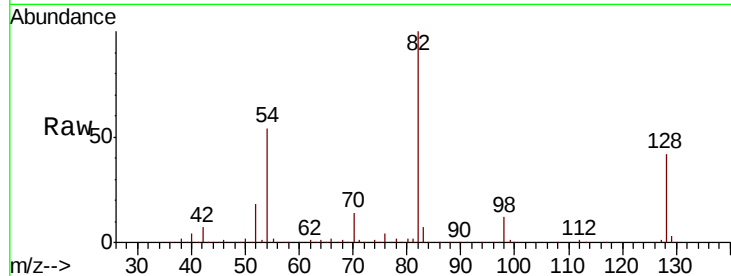
#23
 Nitrobenzene-d5
 Concen: 55.593 ng
 RT: 7.36 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

Tot Ion:	82	Resp:	615010
Ion Ratio	Lower	Upper	
82	100		
128	41.8	35.8	53.6
54	54.1	42.6	63.8

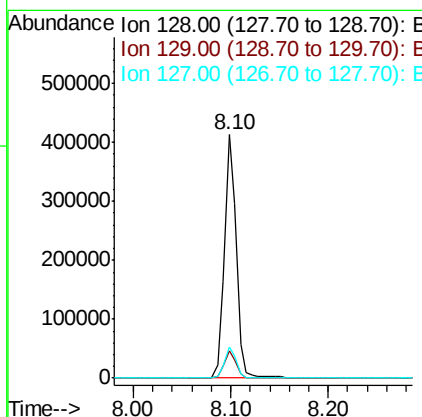
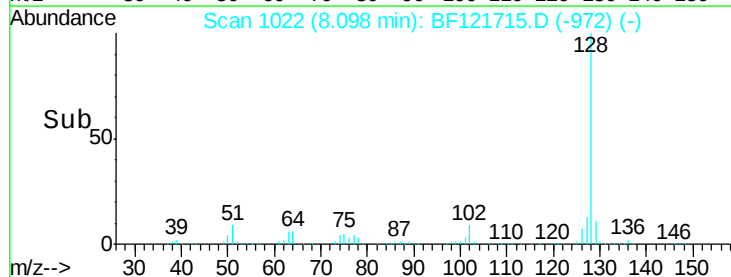
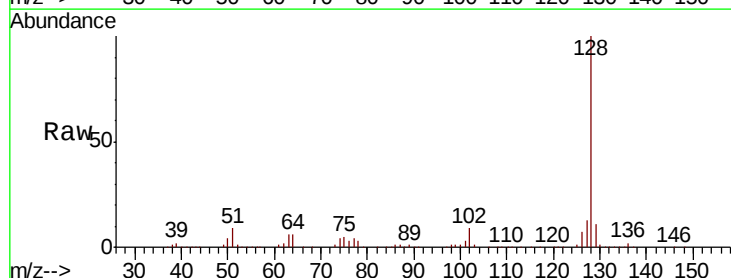
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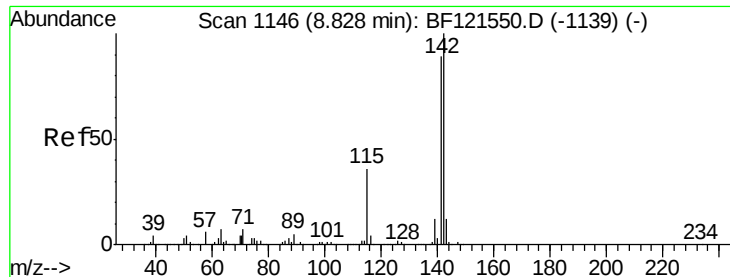
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#31
 Naphthalene
 Concen: 11.121 ng
 RT: 8.10 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Tgt Ion:	128	Resp:	348717
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.1	13.7
127	13.0	10.8	16.2





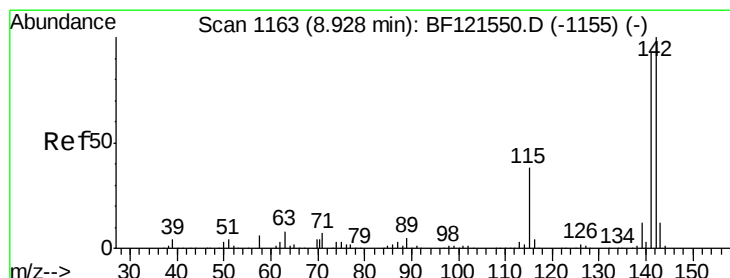
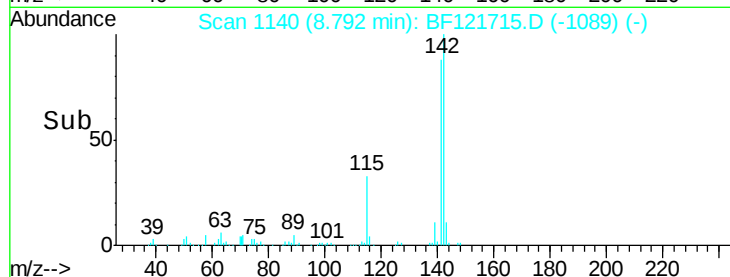
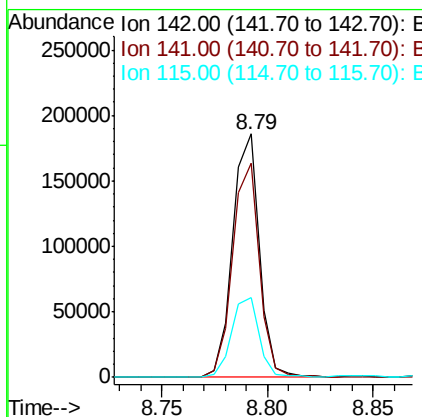
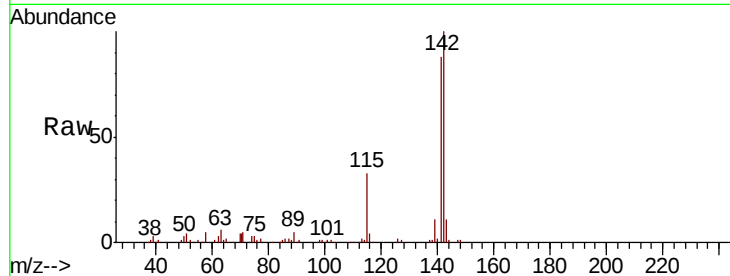
#37
2-Methylnaphthalene
Concen: 7.880 ng
RT: 8.79 min Scan# 1140
Delta R.T. 0.00 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.9	107.9
115	32.8	29.9	44.9

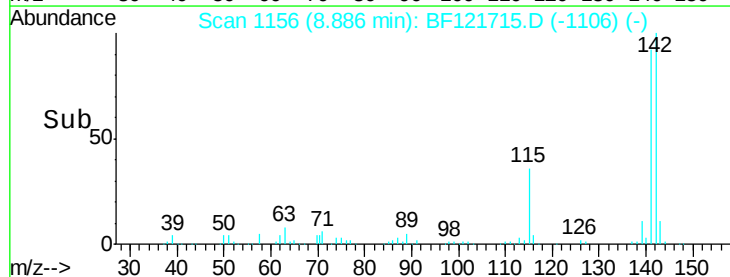
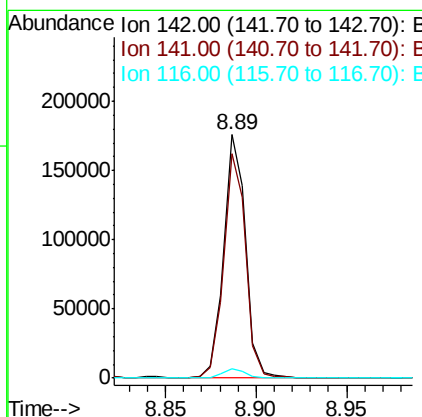
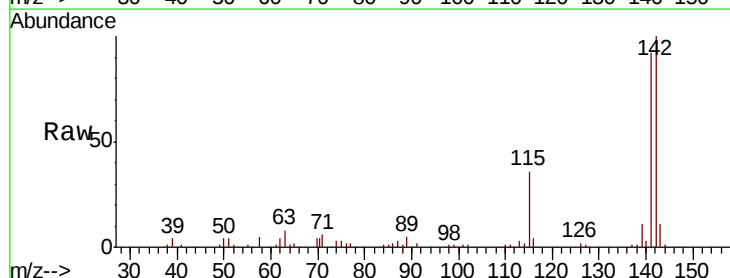
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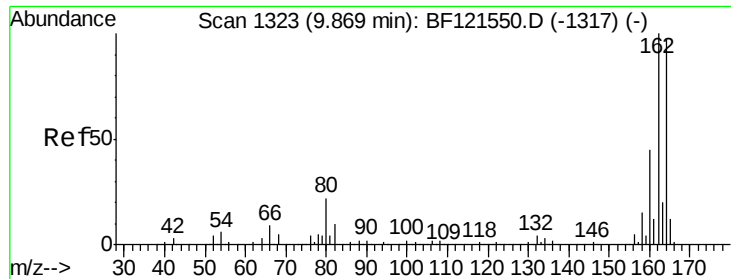
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#38
1-Methylnaphthalene
Concen: 7.715 ng
RT: 8.89 min Scan# 1156
Delta R.T. -0.01 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.8	110.8
116	3.7	3.2	4.8





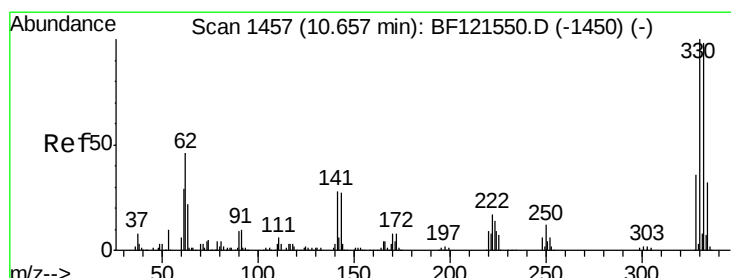
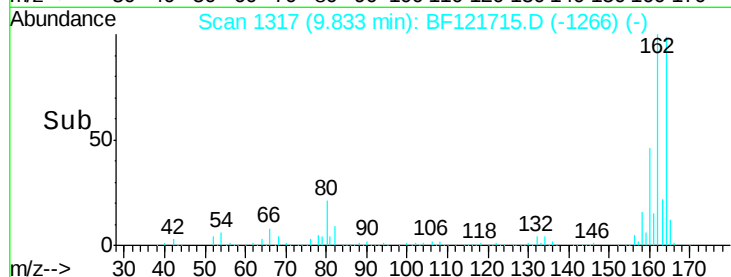
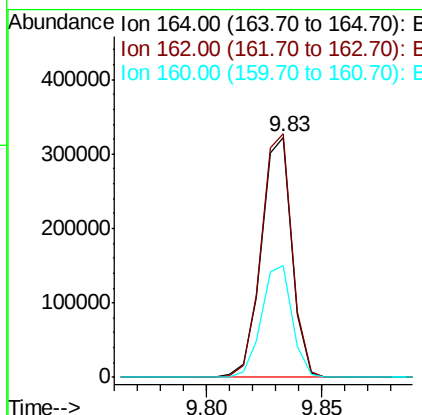
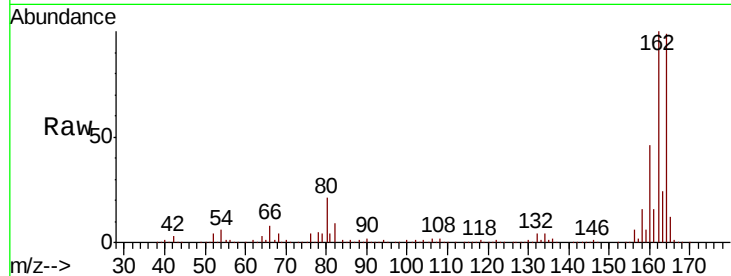
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.00 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	298291		
162	101.3	82.1	123.1	
160	46.8	36.8	55.2	

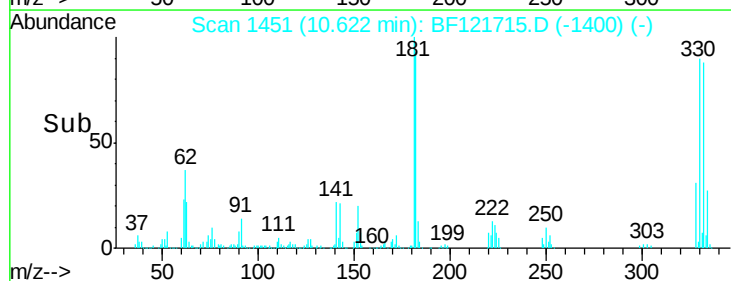
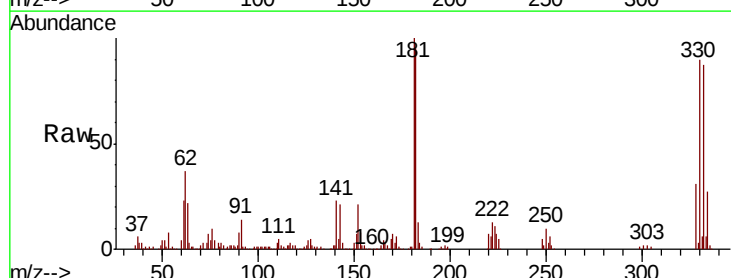
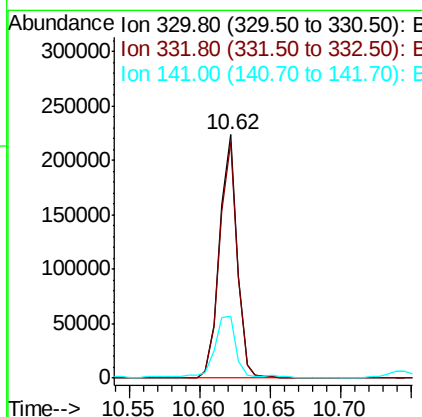
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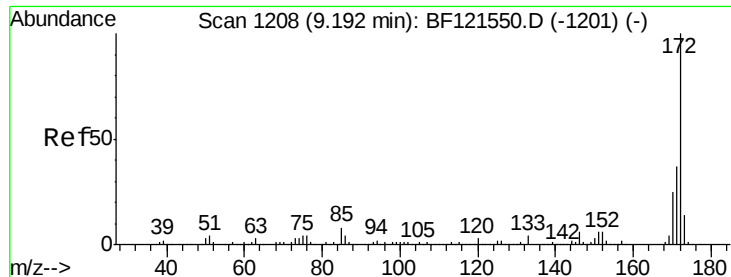
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#42
2,4,6-Tribromophenol
Concen: 52.640 ng
RT: 10.62 min Scan# 1451
Delta R.T. 0.00 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	195155		
332	97.4	76.0	114.0	
141	31.1	22.2	33.4	





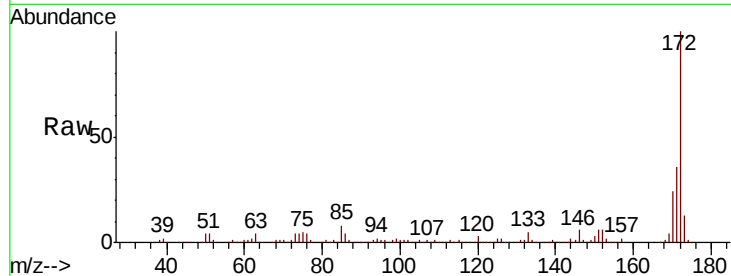
#45
2-Fluorobiphenyl
Concen: 55.466 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

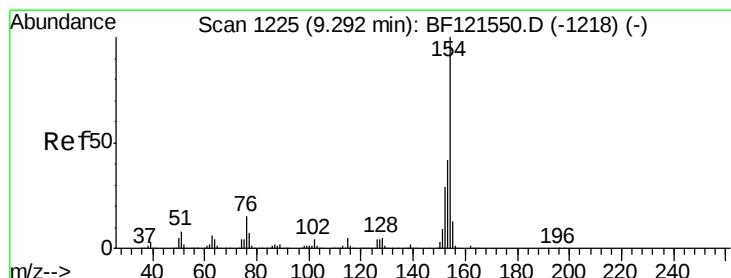
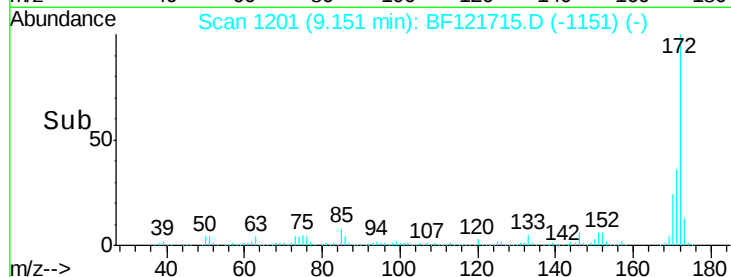
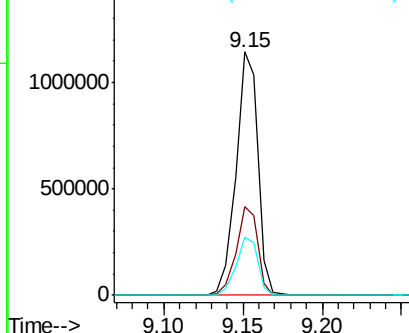
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.6
170	23.8	19.5	29.3

Manual Integrations
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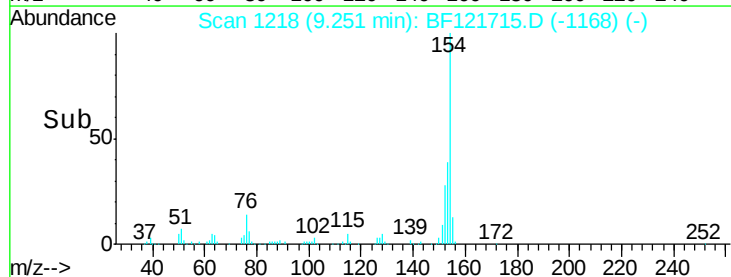
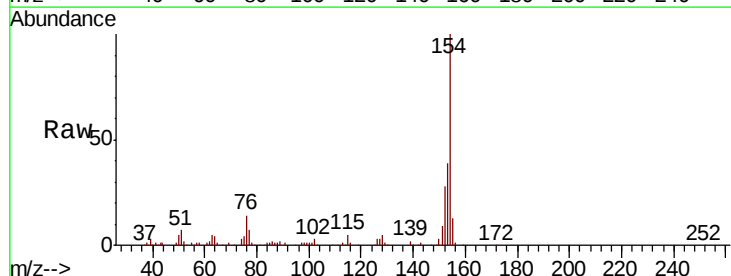
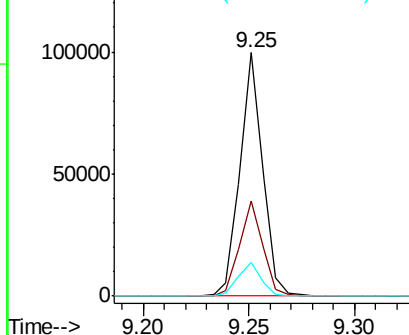
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

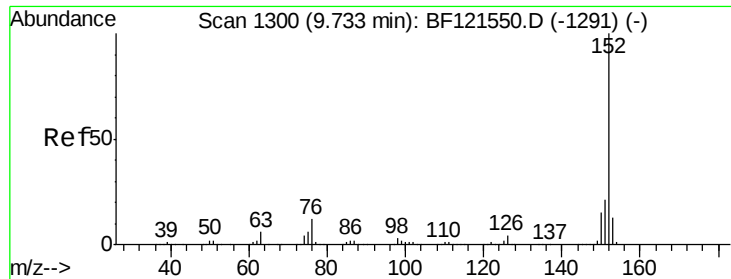


#46
1,1'-Biphenyl
Concen: 3.085 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.0	21.9	61.9
76	13.9	0.0	34.7

Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





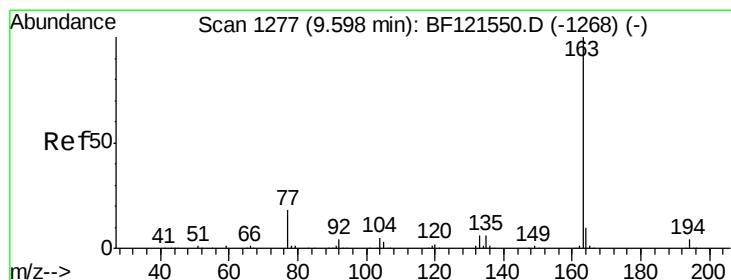
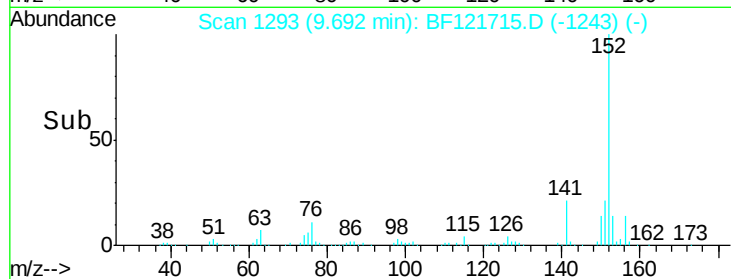
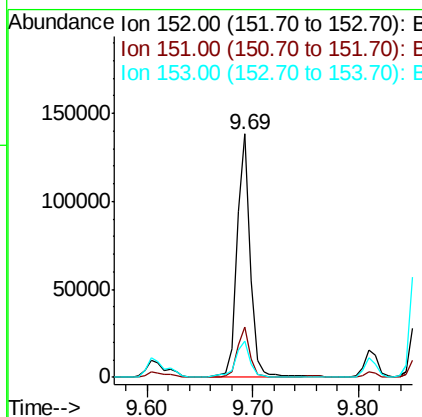
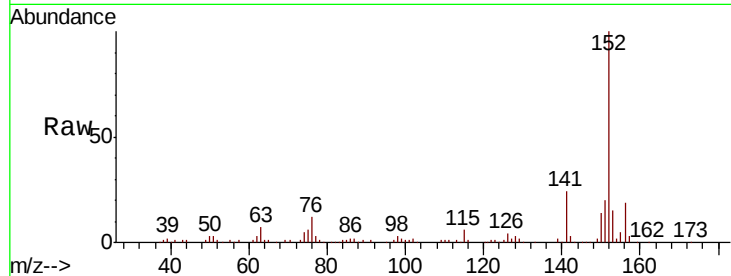
#49
Acenaphthylene
Concen: 4.055 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.5	24.7
153	15.1	10.6	16.0

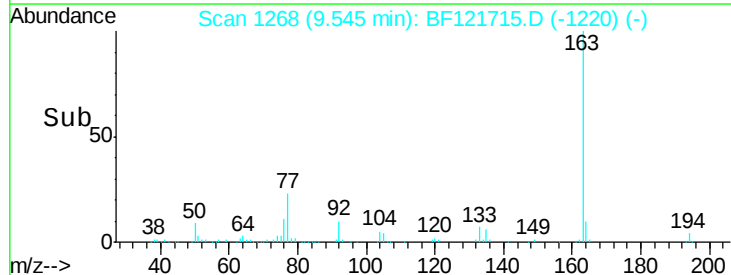
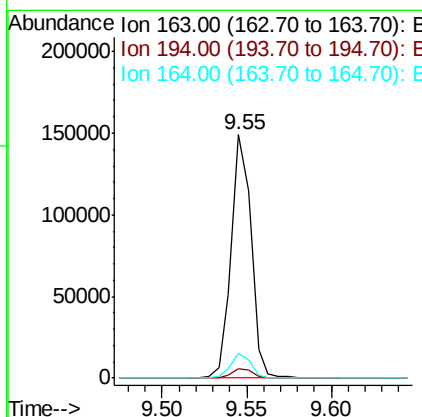
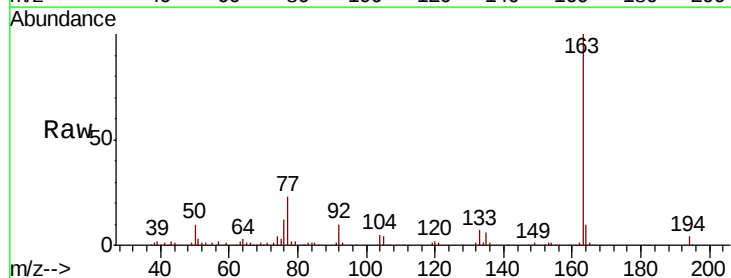
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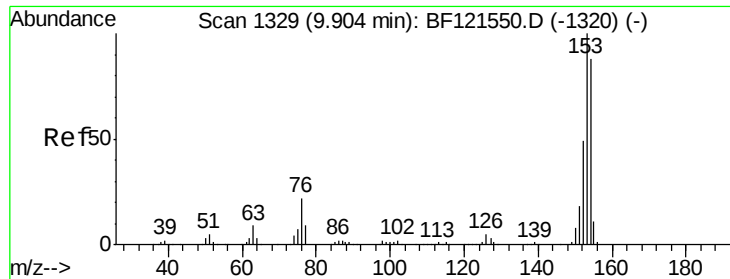
mohammad
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#50
Dimethylphthalate
Concen: 5.649 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.02 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.0
164	10.2	8.2	12.2





#52

Acenaphthene

Concen: 26.554 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Instrument :

BNA_F

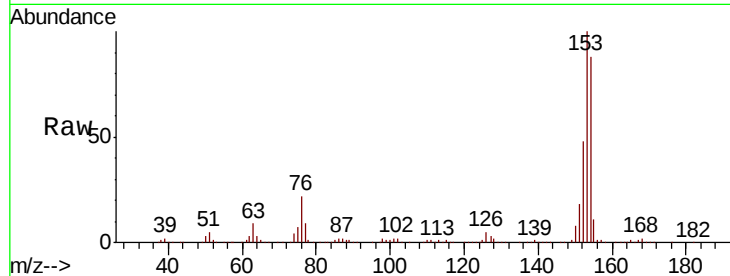
ClientSampleId :

B-5(11-13)

Tot Ion:	154	Resp:	484941
Ion Ratio	Lower	Upper	
154	100		
153	113.7	91.7	137.5
152	55.0	44.0	66.0

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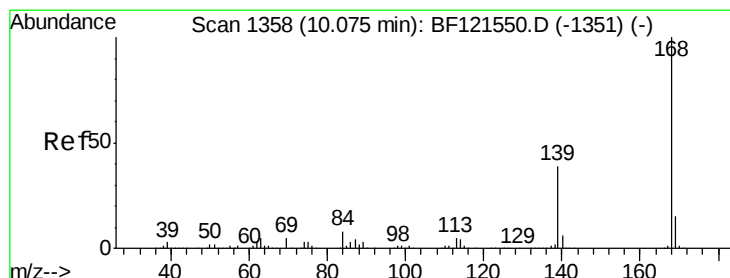
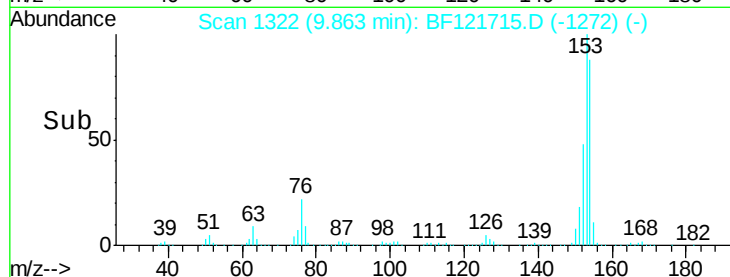
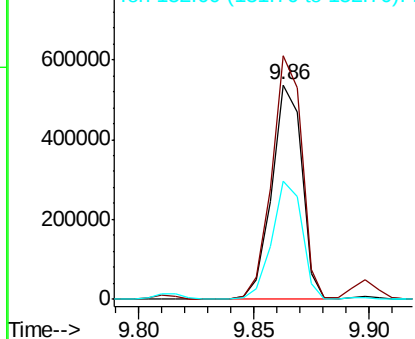


Abundance

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



#55

Dibenzofuran

Concen: 26.771 ng

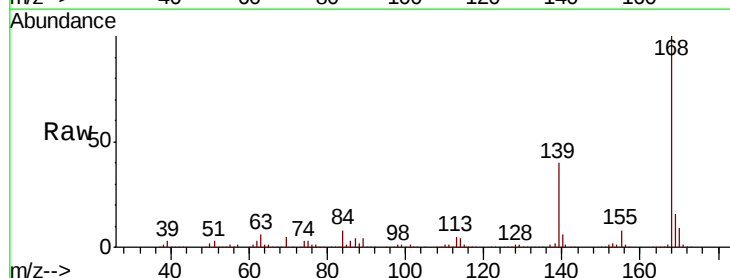
RT: 10.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Tgt Ion:	168	Resp:	688489
Ion Ratio	Lower	Upper	
168	100		
139	40.1	32.6	49.0
169	16.3	11.7	17.5

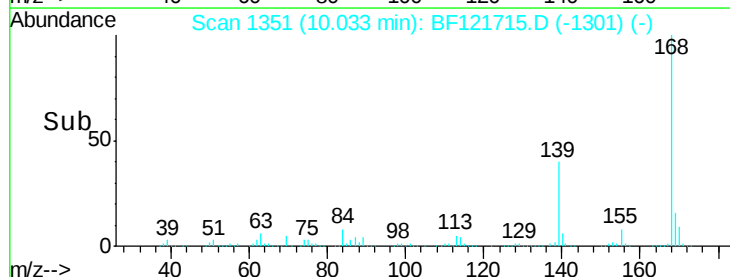
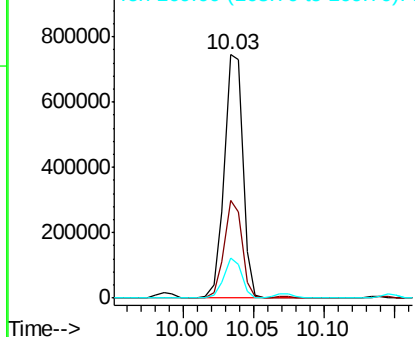


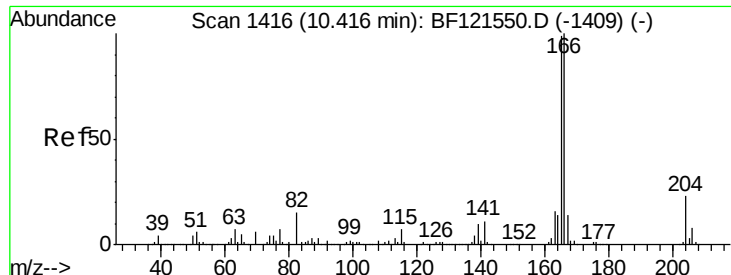
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 38.120 ng

RT: 10.38 min Scan# 1410

Delta R.T. 0.00 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Instrument :

BNA_F

ClientSampleId :

B-5(11-13)

Tot Ion:166 Resp: 749706

Ion Ratio Lower Upper

166 100

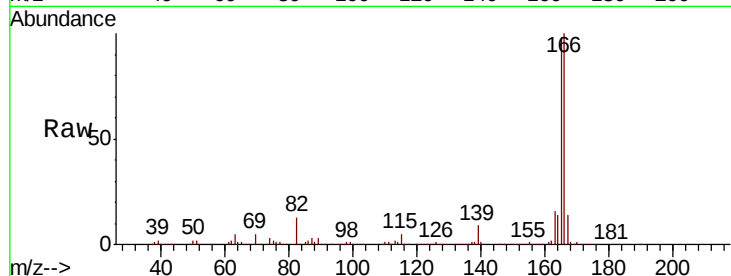
165 97.9 78.8 118.2

167 13.7 11.0 16.4

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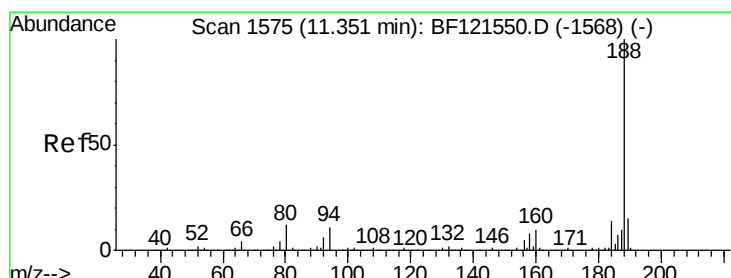
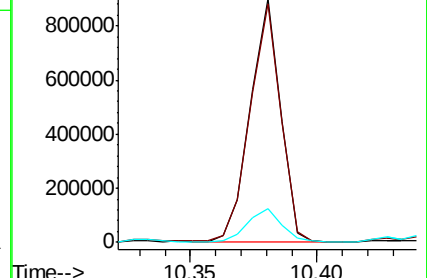
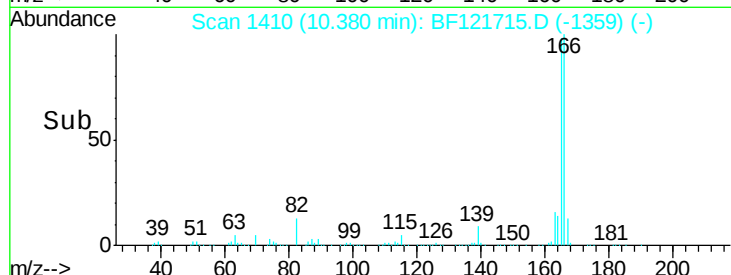
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

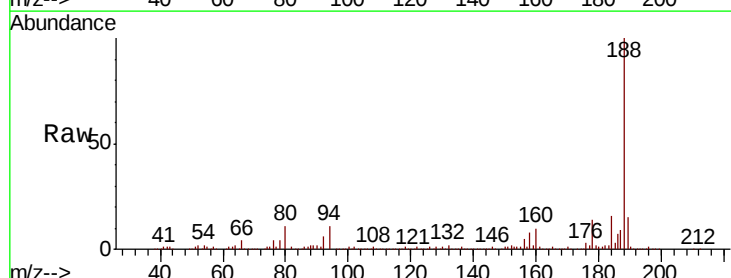
Tgt Ion:188 Resp: 471754

Ion Ratio Lower Upper

188 100

94 10.6 8.4 12.6

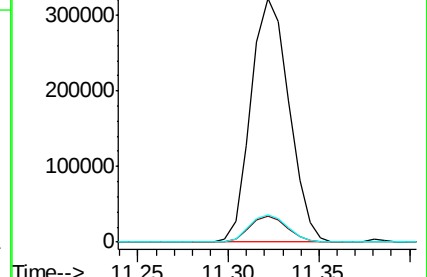
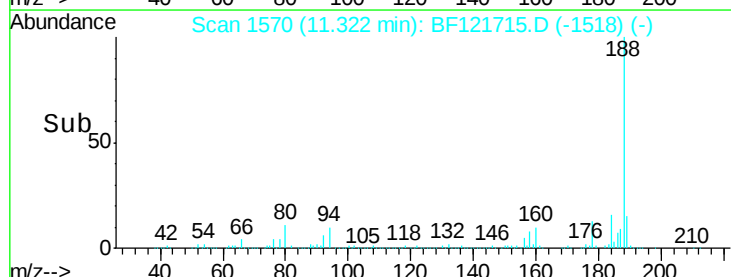
80 11.3 9.3 13.9

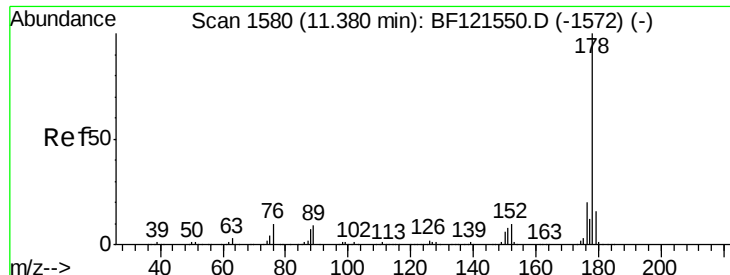


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





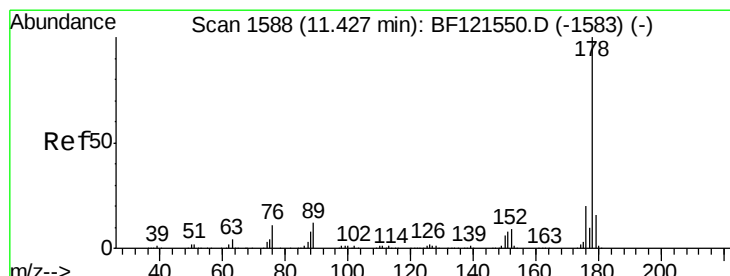
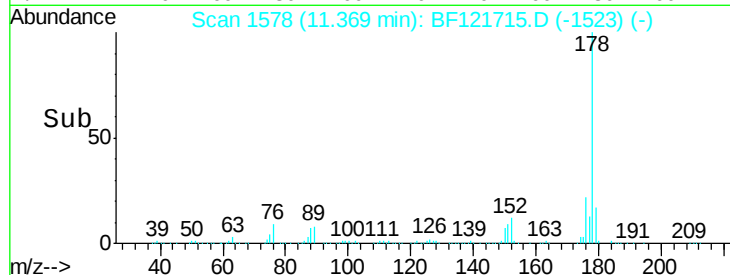
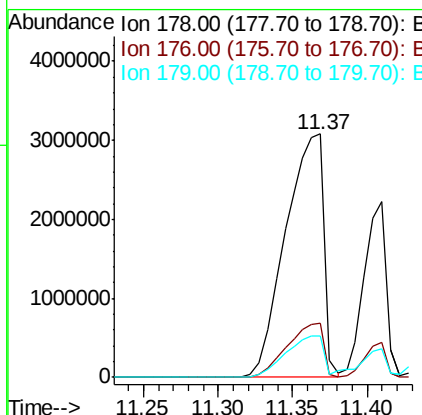
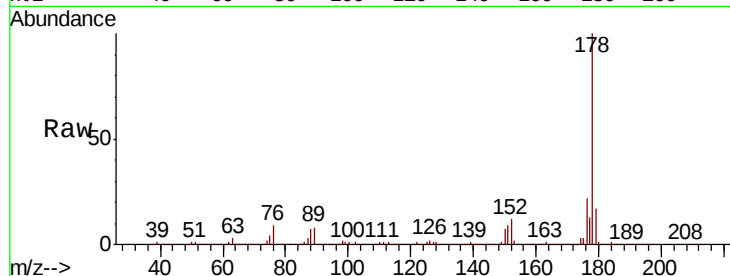
#71
 Phenanthrene
 Concen: 212.885 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. 0.02 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

Tot Ion	Ratio	Lower	Upper
178	100		
176	22.3	16.2	24.4
179	17.1	12.5	18.7

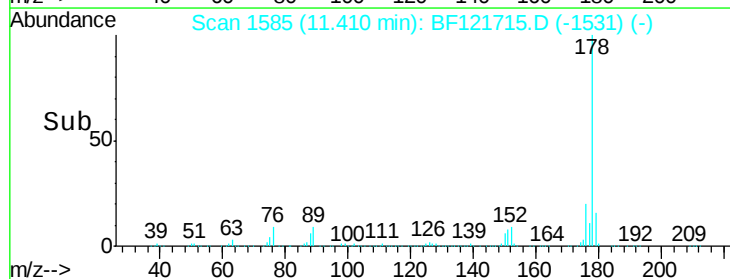
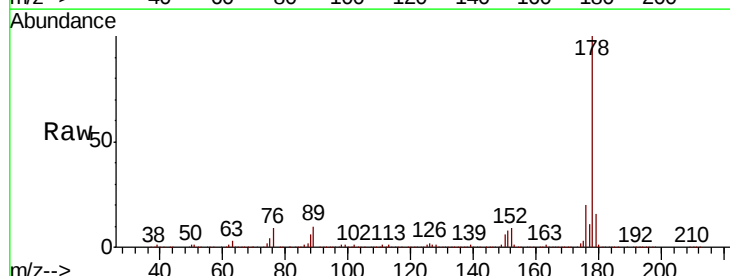
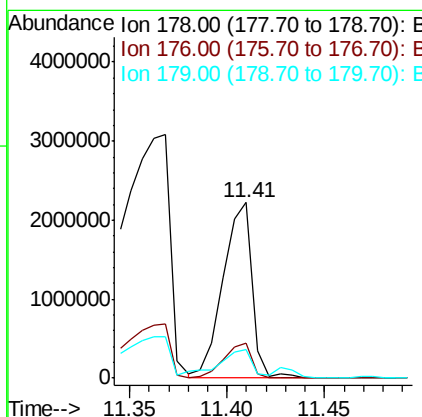
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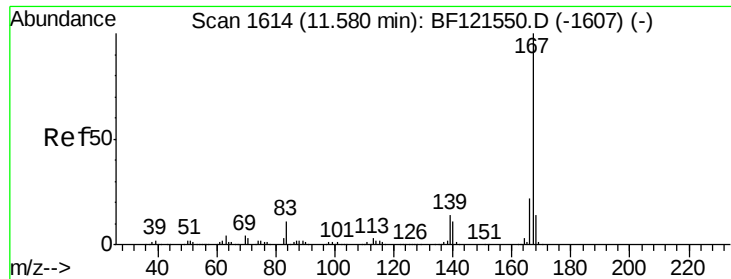
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#72
 Anthracene
 Concen: 85.730 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.02 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.6	23.4
179	16.1	12.7	19.1





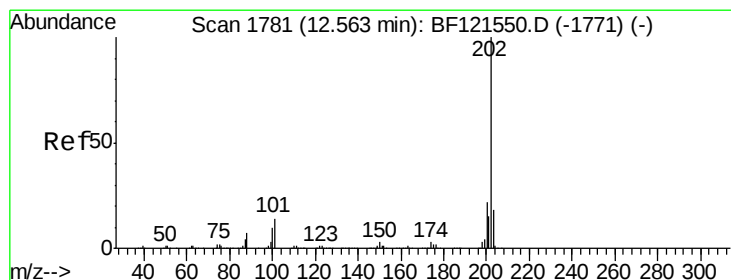
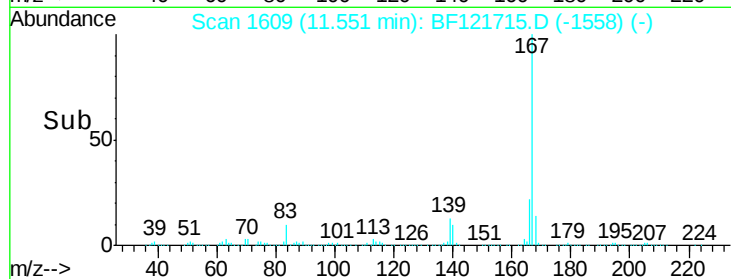
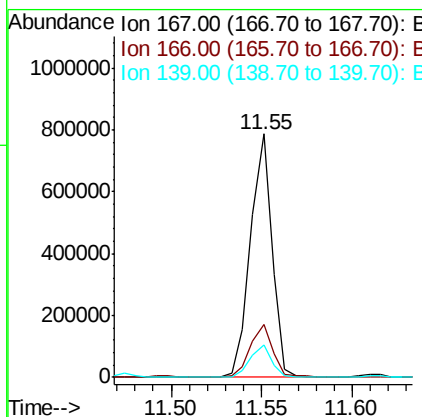
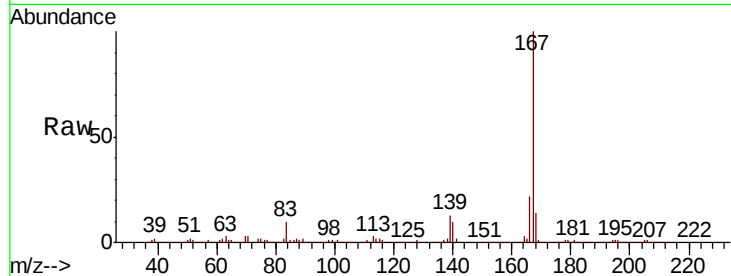
#73
 Carbazole
 Concen: 27.269 ng
 RT: 11.55 min Scan# 1609
 Delta R.T. 0.00 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100		652715		
166	21.7		17.6	26.4	
139	13.3		10.7	16.1	

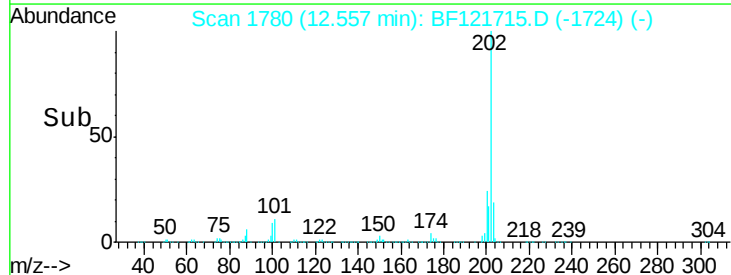
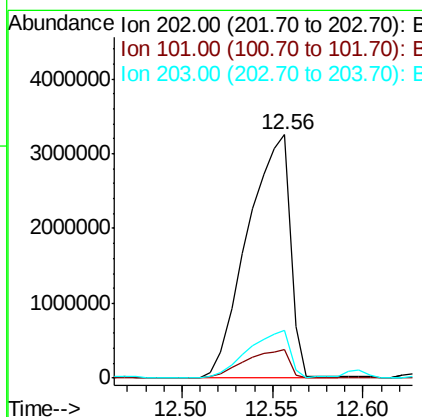
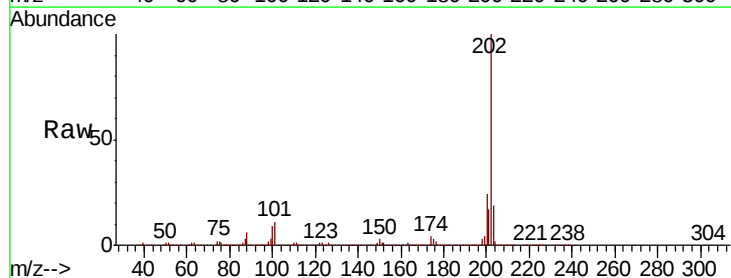
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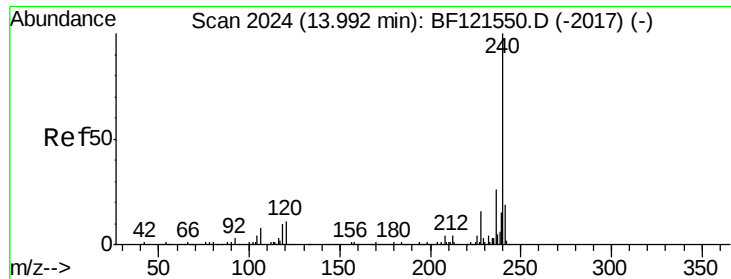
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#75
 Fluoranthene
 Concen: 194.080 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. 0.03 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		5325135		
101	11.5		0.0	33.7	
203	19.4		0.0	38.5	





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Instrument :

BNA_F

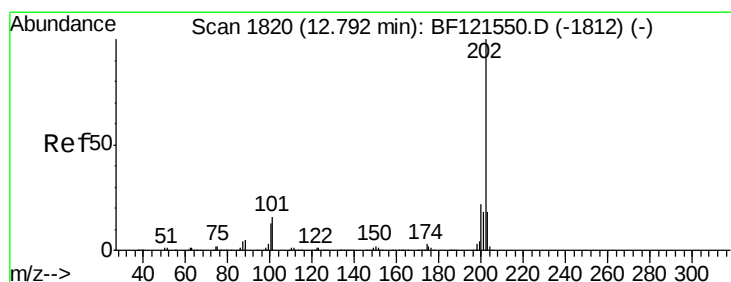
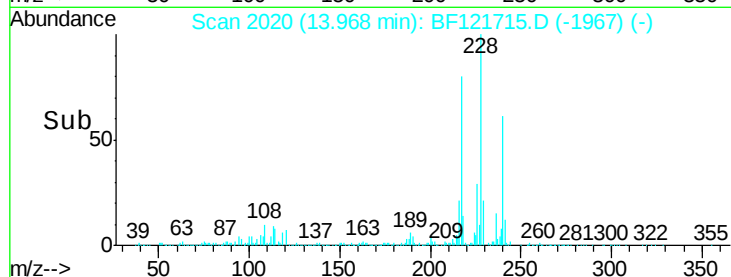
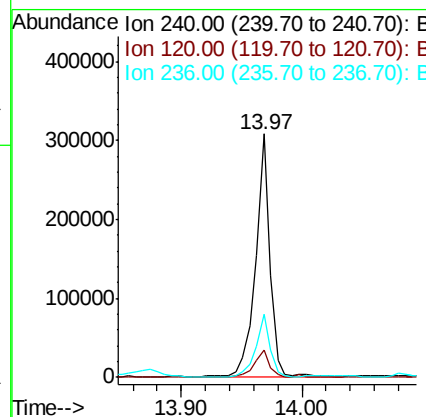
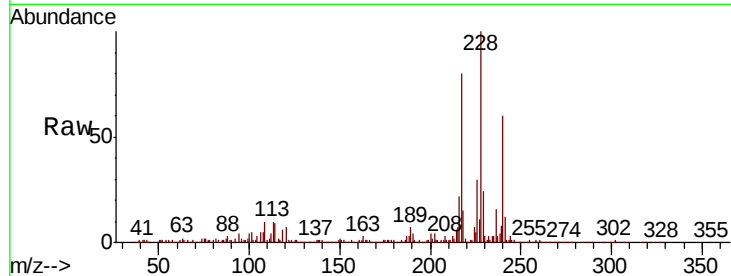
ClientSampleId :

B-5(11-13)

Tot Ion:	240	Resp:	256418
Ion Ratio	Lower	Upper	
240	100		
120	11.1	9.1	13.7
236	26.0	20.6	30.8

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#78

Pyrene

Concen: 227.514 ng

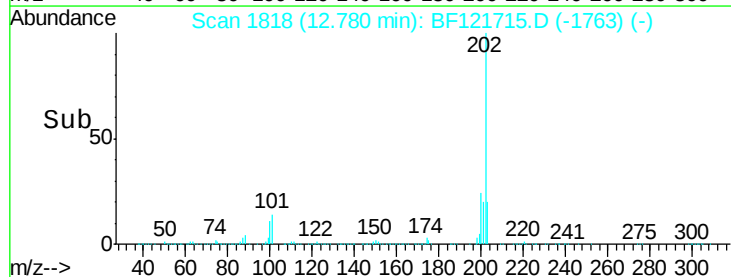
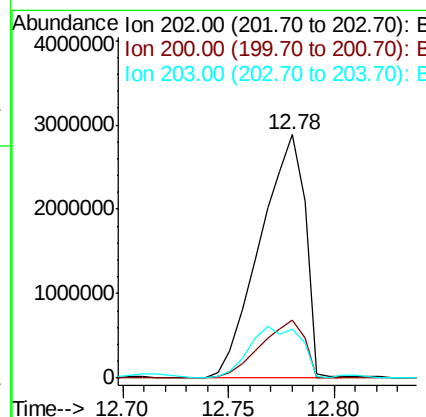
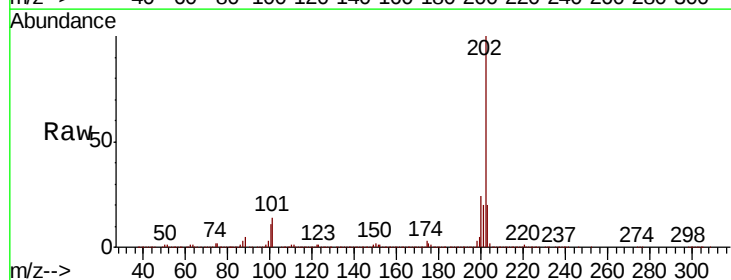
RT: 12.78 min Scan# 1818

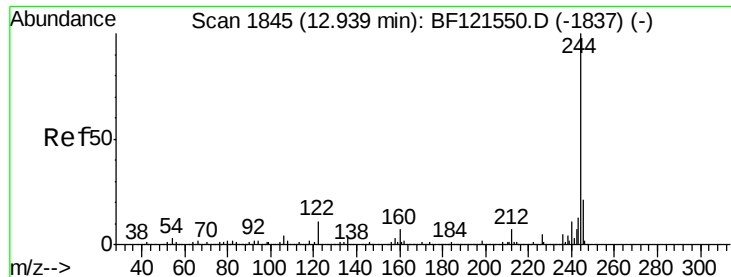
Delta R.T. 0.02 min

Lab File: BF121715.D

Acq: 28 Sep 2020 16:40

Tgt Ion:	202	Resp:	4262404
Ion Ratio	Lower	Upper	
202	100		
200	23.9	17.8	26.8
203	19.9	14.3	21.5





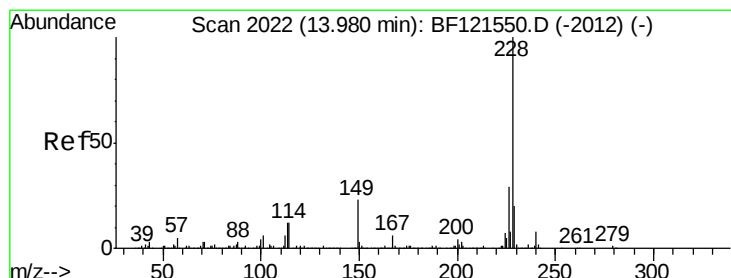
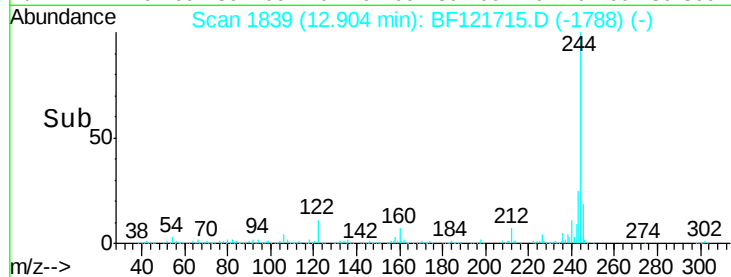
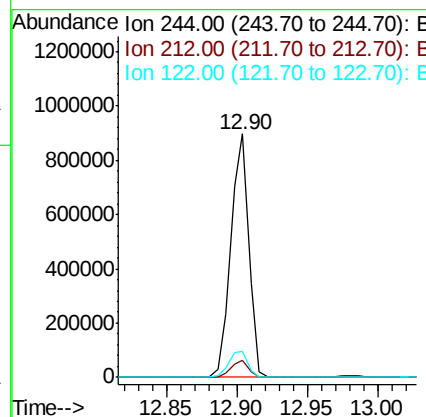
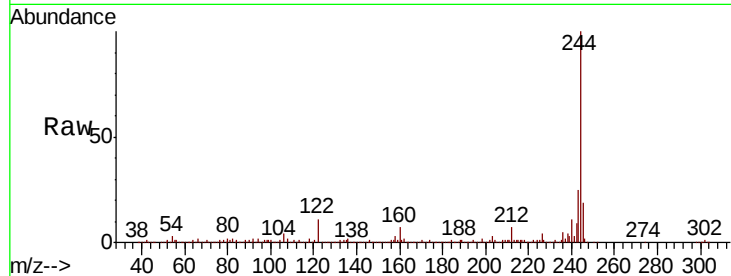
#79
 Terphenyl-d14
 Concen: 62.324 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. 0.00 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.7	8.0	12.0

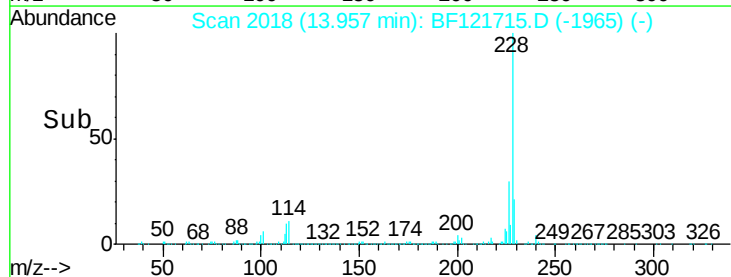
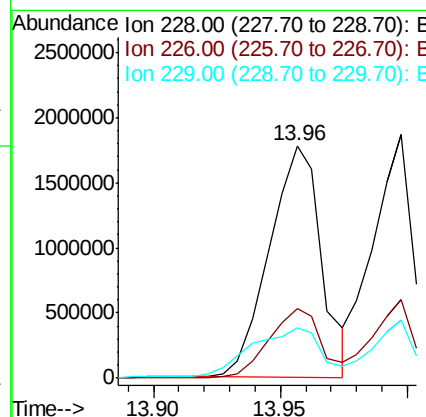
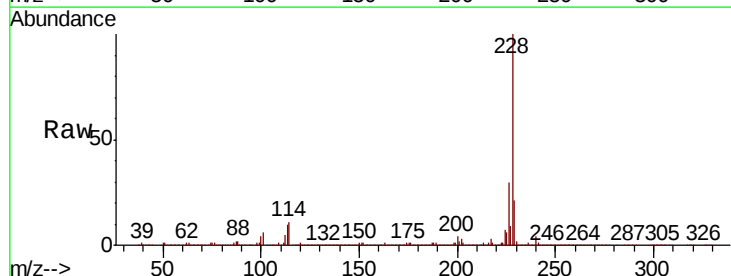
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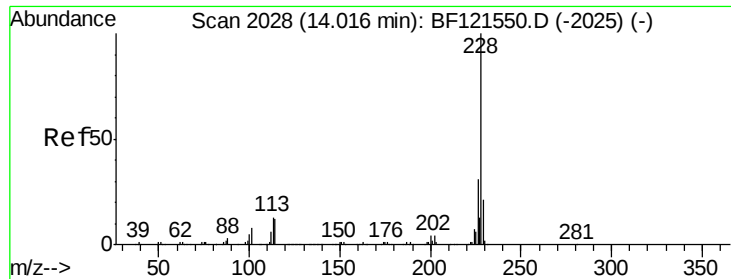
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#81
 Benzo(a)anthracene
 Concen: 156.808 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. 0.01 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.5	33.7
229	21.4	16.2	24.4





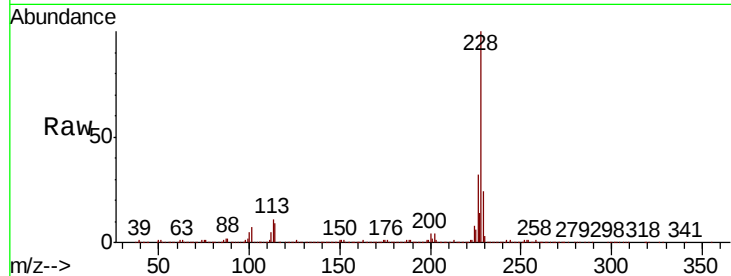
#83
Chrysene
Concen: 122.410 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.0	37.4
229	23.8	16.0	24.0

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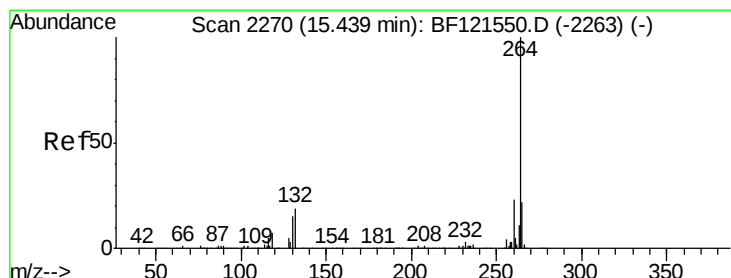
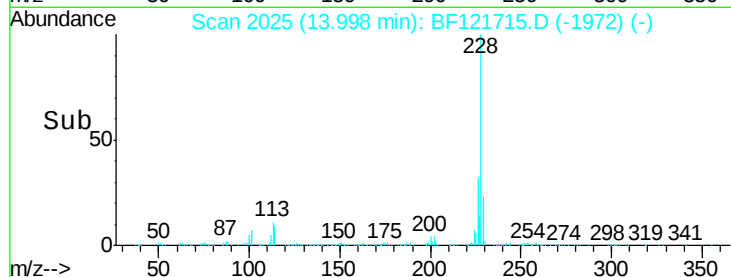
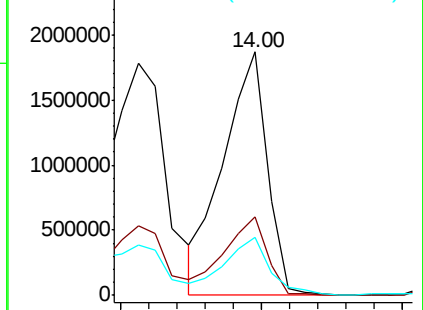


Abundance

Ion 228.00 (227.70 to 228.70): E

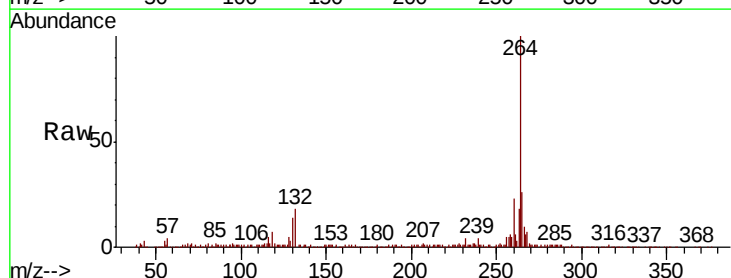
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.02 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.4	27.6
265	25.6	17.2	25.8

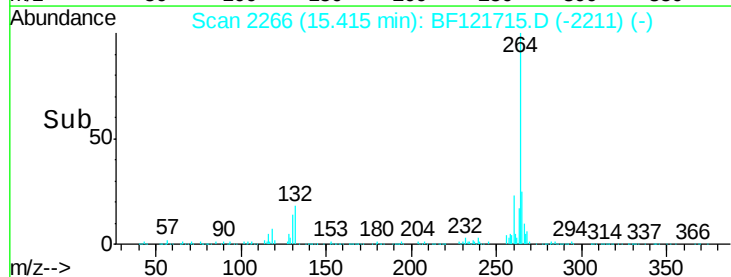
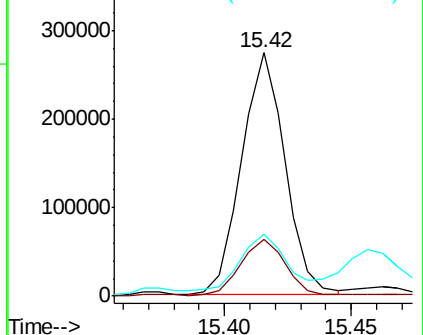


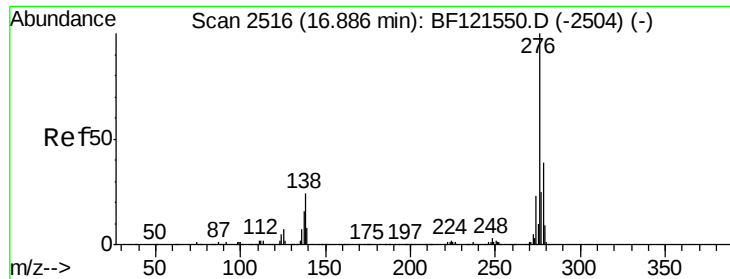
Abundance

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





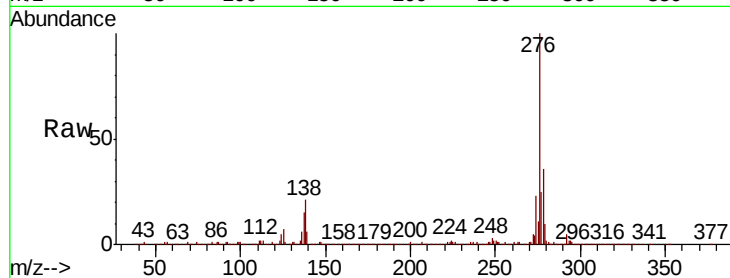
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 65.169 ng
 RT: 16.86 min Scan# 2512
 Delta R.T. 0.04 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Instrument :
 BNA_F
 ClientSampleId :
 B-5(11-13)

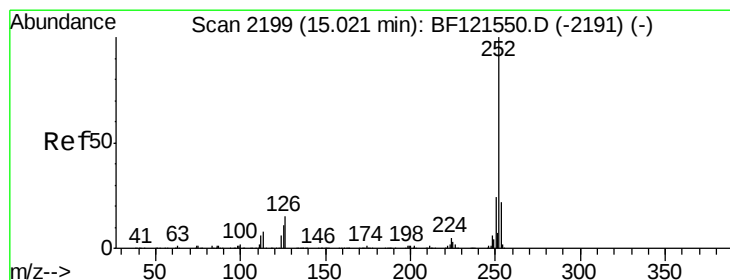
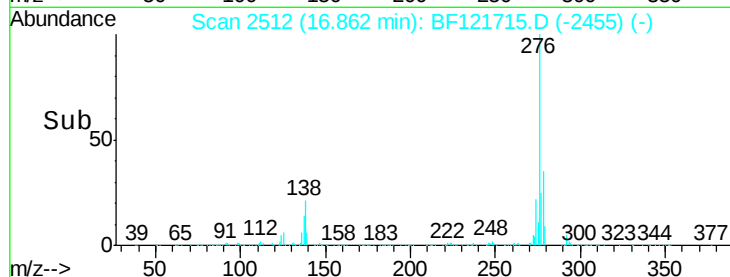
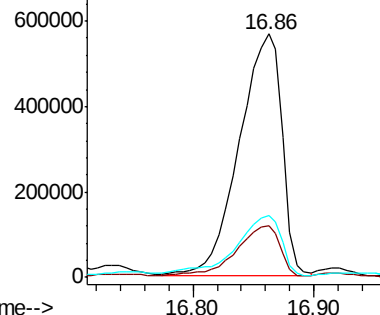
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.4	19.5	29.3
277	26.8	20.2	30.4

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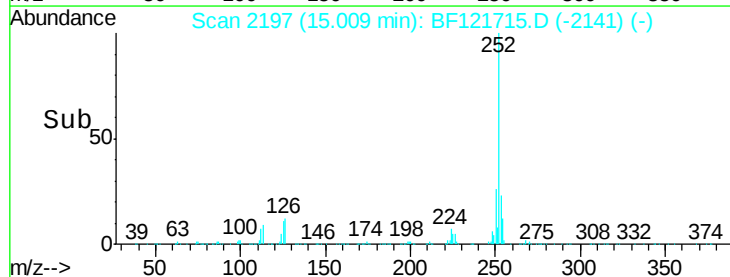
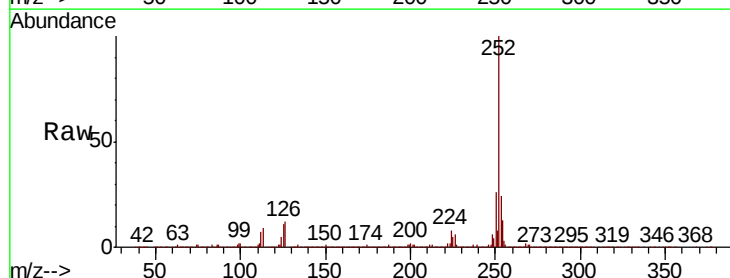
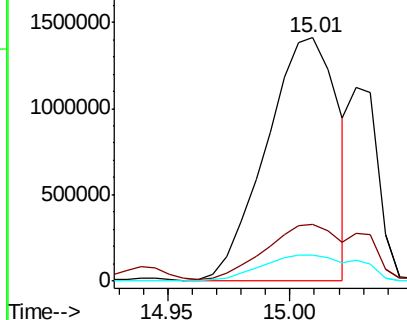
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

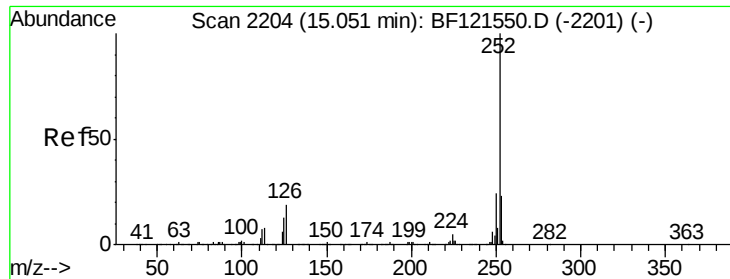


#88
 Benzo(b)fluoranthene
 Concen: 131.745 ng m
 RT: 15.01 min Scan# 2197
 Delta R.T. 0.03 min
 Lab File: BF121715.D
 Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.6
125	10.8	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





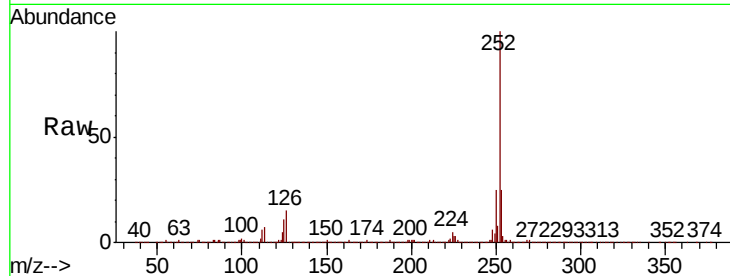
#89
Benzo(k)fluoranthene
Concen: 44.727 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.01 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

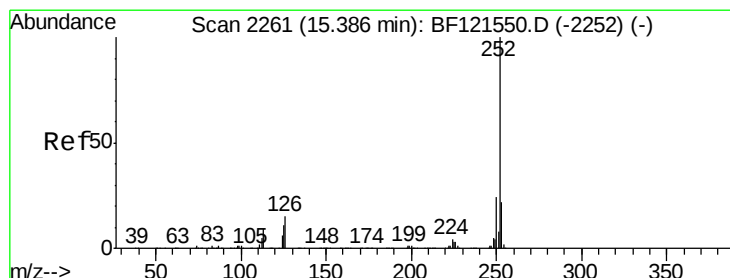
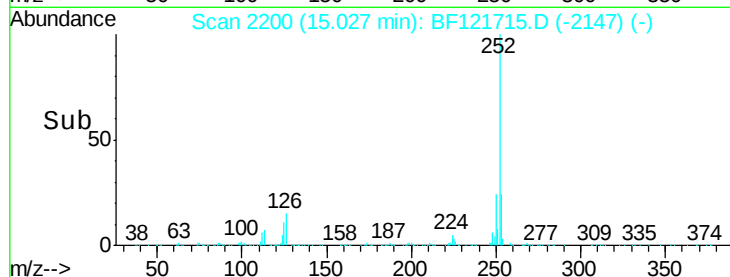
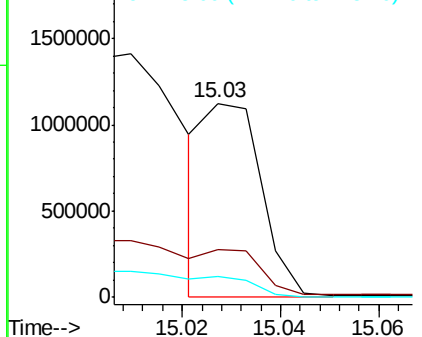
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.6	26.4
125	10.8	7.1	10.7

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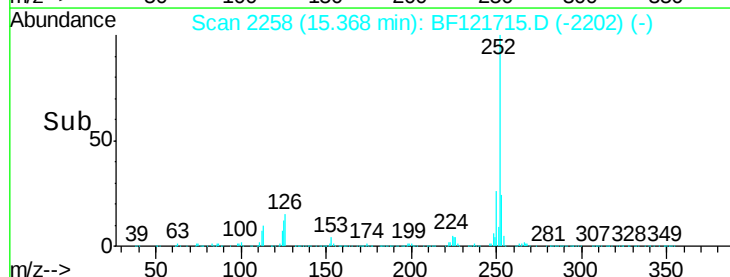
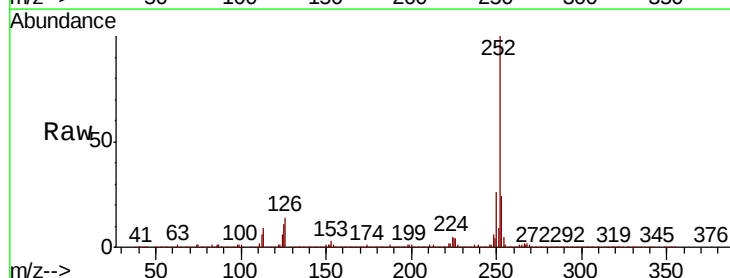
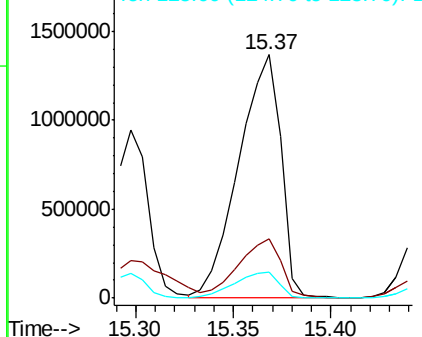
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

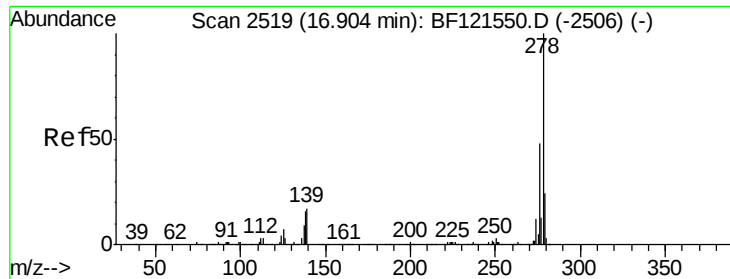


#90
Benzo(a)pyrene
Concen: 109.789 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.03 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.4	26.2
125	10.9	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





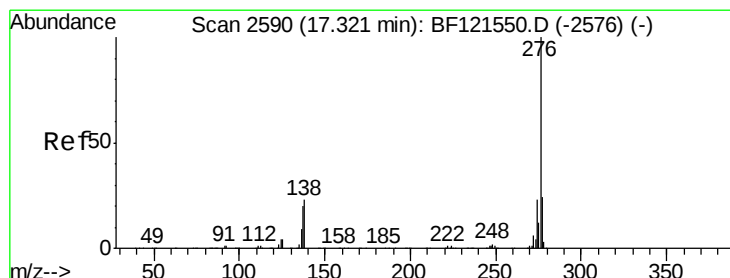
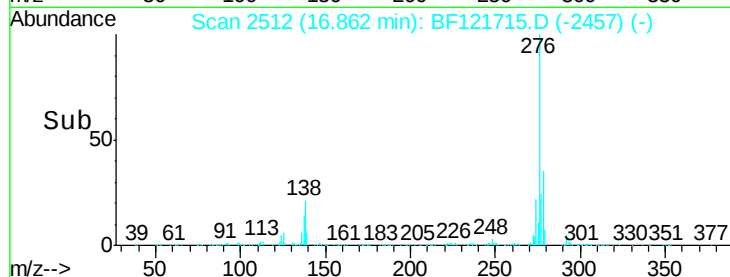
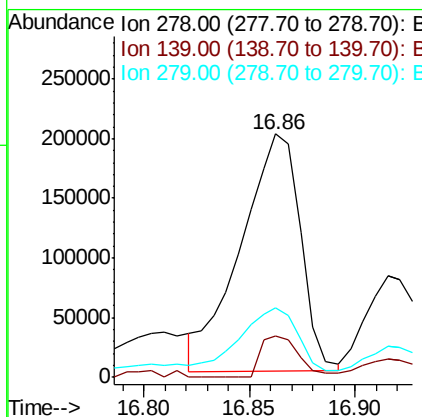
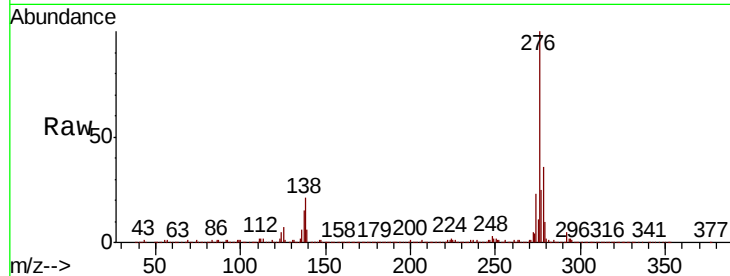
#91
Dibenzo(a,h)anthracene
Concen: 22.069 ng
RT: 16.86 min Scan# 2512
Delta R.T. 0.02 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Instrument :
BNA_F
ClientSampleId :
B-5(11-13)

Tot Ion:	278	Resp:	389963
Ion Ratio	Lower	Upper	
278	100		
139	17.2	13.0	19.4
279	28.5	19.3	28.9

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 66.488 ng
RT: 17.30 min Scan# 2586
Delta R.T. 0.04 min
Lab File: BF121715.D
Acq: 28 Sep 2020 16:40

Tgt Ion:	276	Resp:	1154826
Ion Ratio	Lower	Upper	
276	100		
277	24.5	18.8	28.2
138	21.3	16.6	25.0

