

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022819\
 Data File : BF112764.D
 Acq On : 28 Feb 2019 16:03
 Operator : JU/SJ
 Sample : K1349-13 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-022719-A

Manual Integrations
 APPROVED

Sohil
 3/1/2019 3:00:04 PM

Quant Time: Mar 01 06:20:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 27 16:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	188842	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	706603	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	311696	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	616503	20.00	ng	0.00
76) Chrysene-d12	13.88	240	490701	20.00	ng	0.00
87) Perylene-d12	15.29	264	357078	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	213319	17.57	ng	0.00
7) Phenol-d6	6.37	99	289923	19.01	ng	0.00
23) Nitrobenzene-d5	7.30	82	147035	12.45	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	69858	21.11	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	279721	2.62	ng	0.00
79) Terphenyl-d14	12.83	244	309193	12.21	ng	0.00
Target Compounds						
58) Fluorene	10.32	166	42623	2.097	ng	98
71) Phenanthrene	11.27	178	438543	14.297	ng	98
72) Anthracene	11.33	178	123324	3.841	ng	98
75) Fluoranthene	12.46	202	684635	20.833	ng	96
78) Pyrene	12.69	202	625944	15.131	ng	98
81) Benzo(a)anthracene	13.87	228	264581	7.780	ng	98
83) Chrysene	13.90	228	233530	7.010	ng	96
86) Indeno(1,2,3-cd)pyrene	16.66	276	95902	3.377	ng	# 92
88) Benzo(b)fluoranthene	14.89	252	246597m	10.677	ng	
89) Benzo(k)fluoranthene	14.92	252	70716m	3.380	ng	
90) Benzo(a)pyrene	15.23	252	164244	8.040	ng	98
92) Benzo(a,h,i)perylene	17.06	276	90272	5.157	ng	96

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

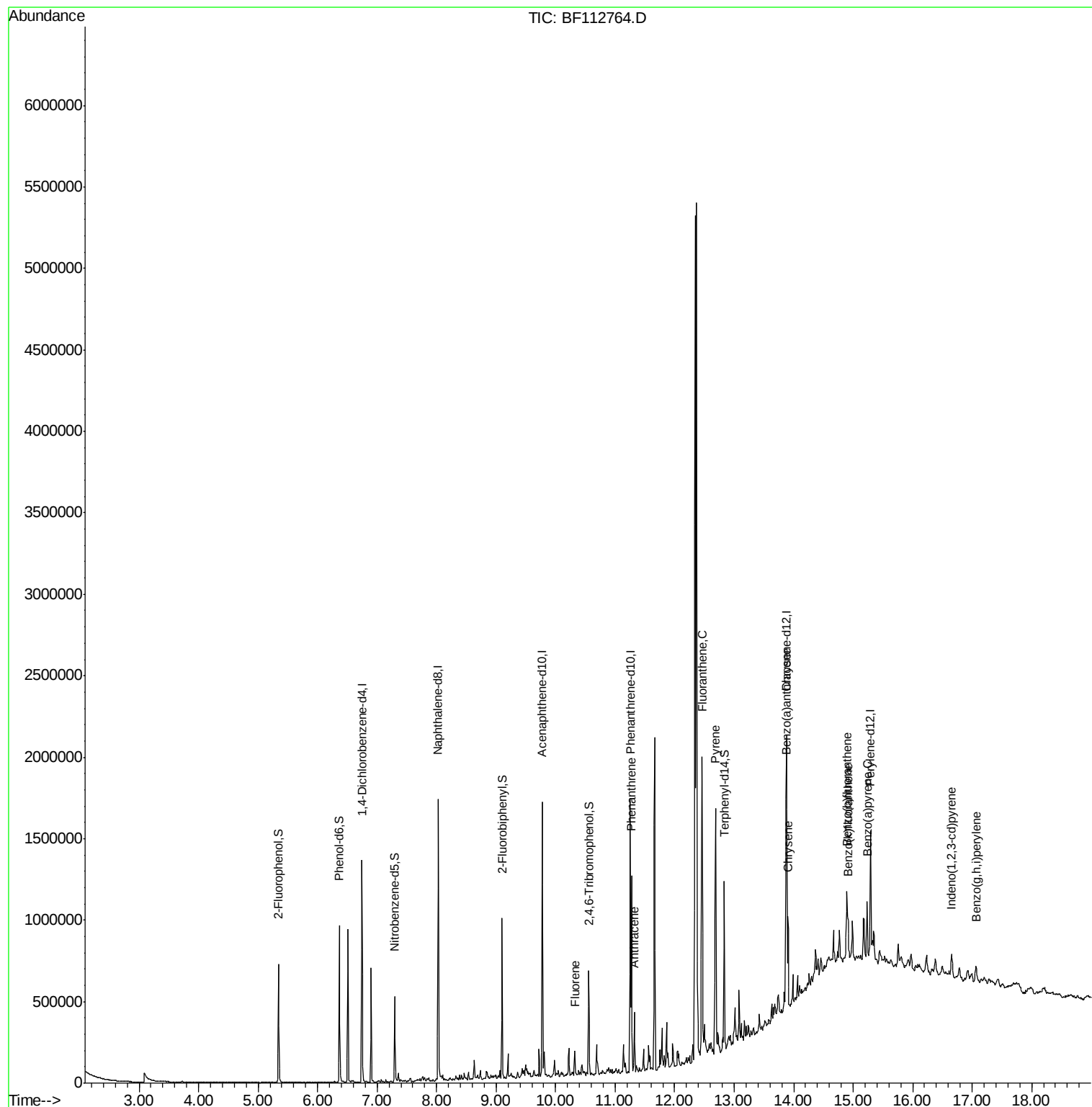
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022819\
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#1

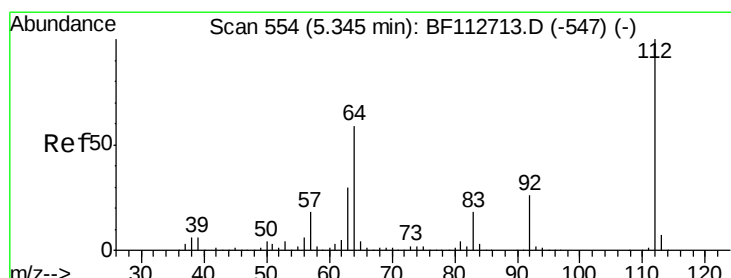
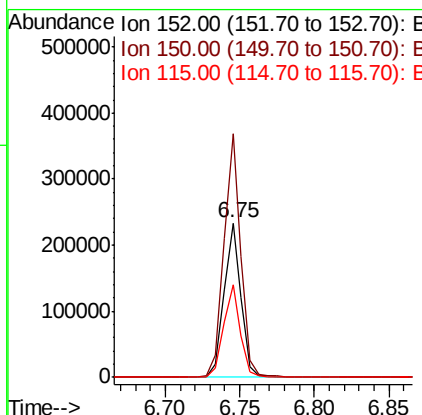
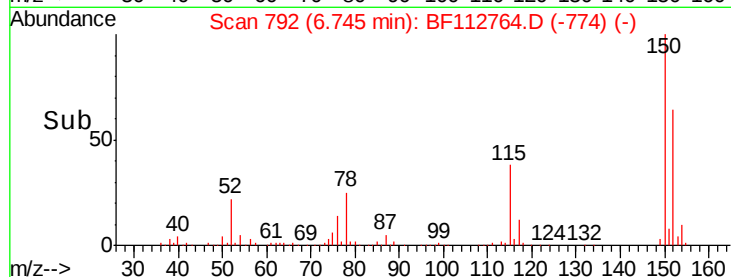
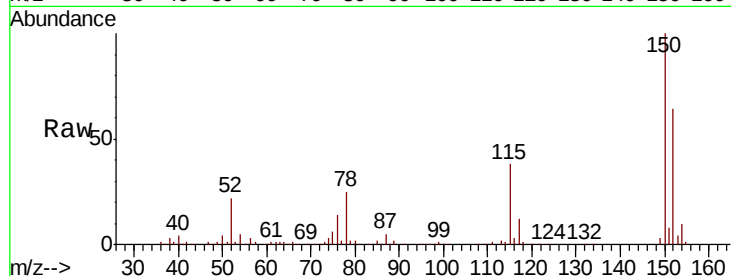
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 792
Delta R.T. 0.01 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Instrument :
BNA_F
ClientSampleId :
OR-03-022719-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.2	186.2
115	59.8	48.2	72.4

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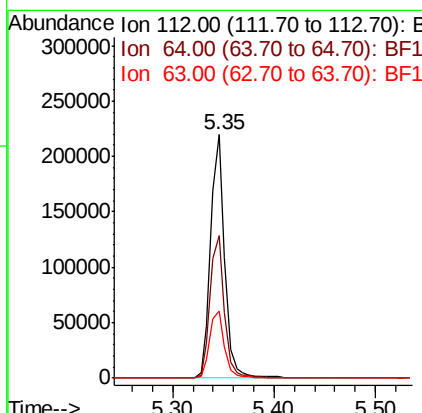
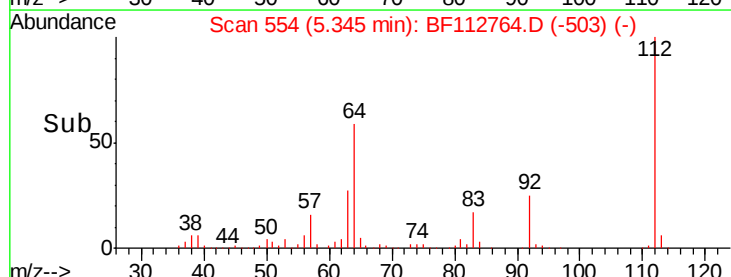
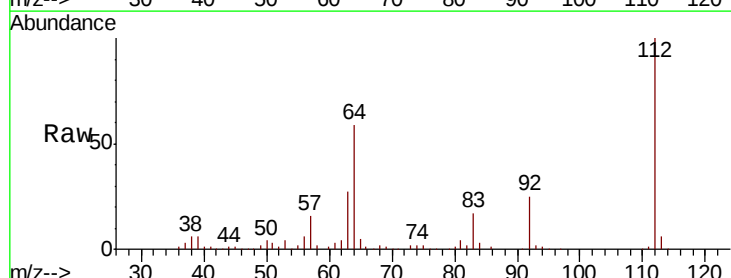
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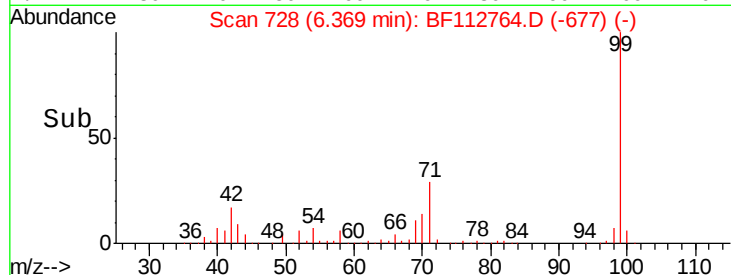
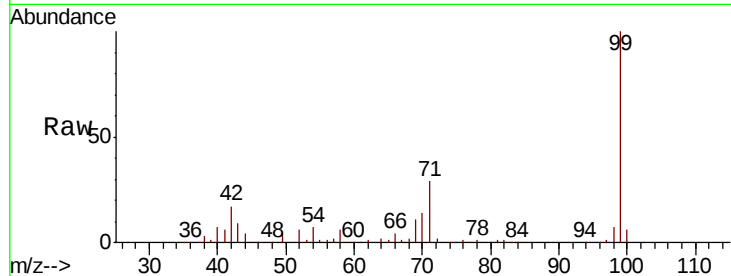


#5

2-Fluorophenol
Concen: 17.572 ng
RT: 5.35 min Scan# 554
Delta R.T. -0.00 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.6	71.4
63	27.4	24.4	36.6





#7

Phenol-d6

Concen: 19.012 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		289923		
42	17.3	16.3	24.5		
71	29.4	26.2	39.4		

Instrument :

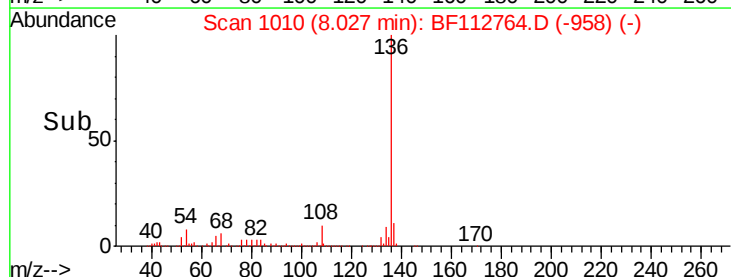
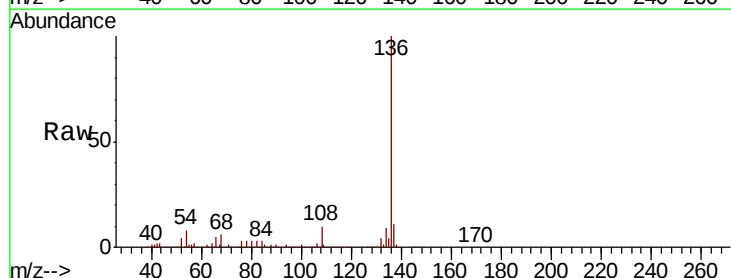
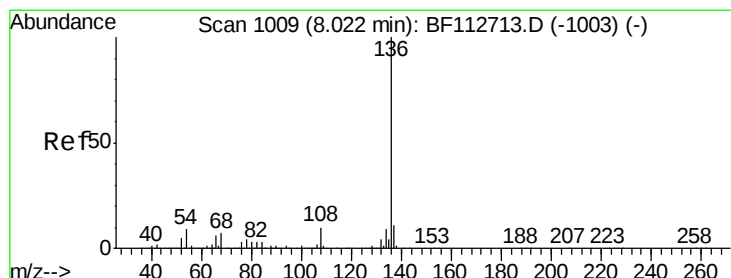
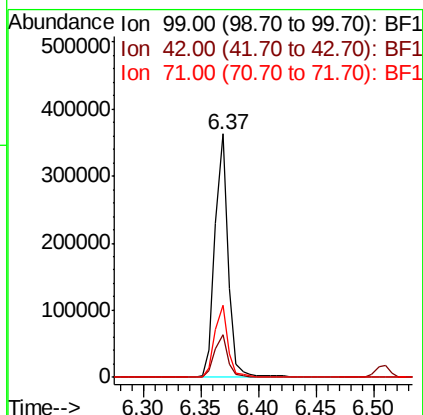
BNA_F

ClientSampleId :

OR-03-022719-A

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#21

Naphthalene-d8

Concen: 20.000 ng

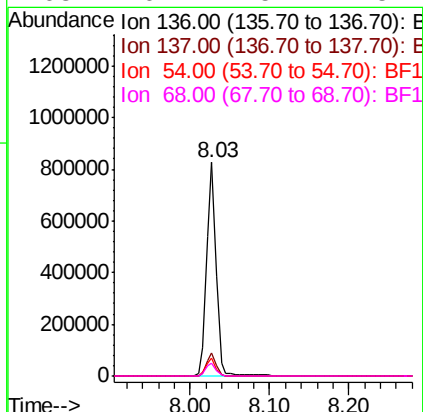
RT: 8.03 min Scan# 1010

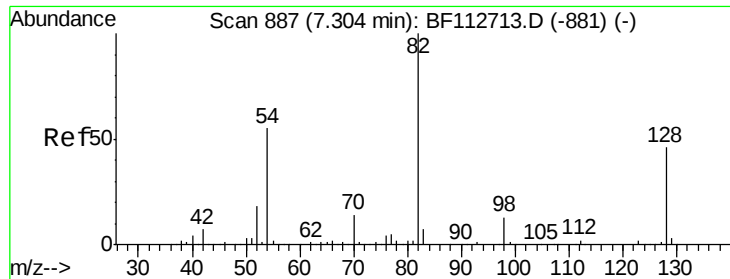
Delta R.T. 0.01 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		706603		
137	11.0	8.9	13.3		
54	8.3	7.3	10.9		
68	6.1	5.4	8.2		





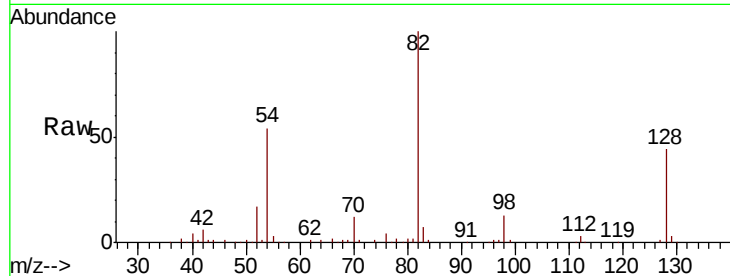
#23
Nitrobenzene-d5
Concen: 12.452 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Instrument :
BNA_F
ClientSampleId :
OR-03-022719-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.2	36.3	54.5
54	53.7	43.7	65.5

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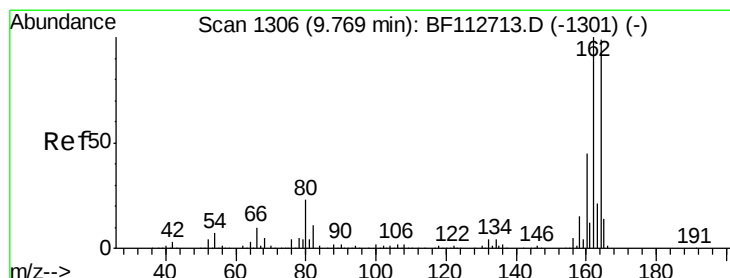
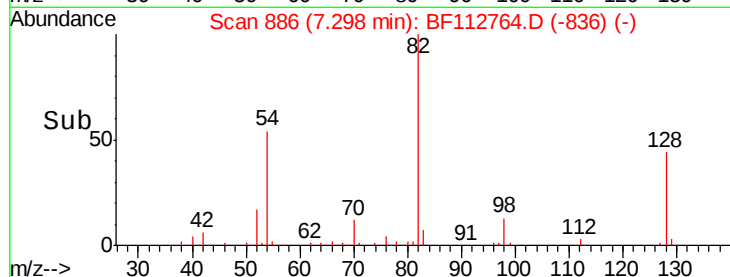
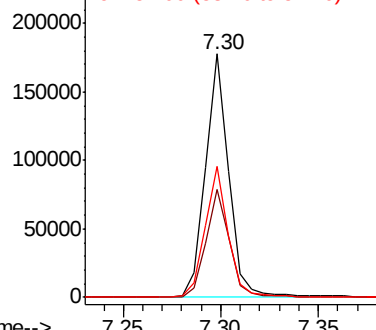


Abundance

Ion 82.00 (81.70 to 82.70): BF1

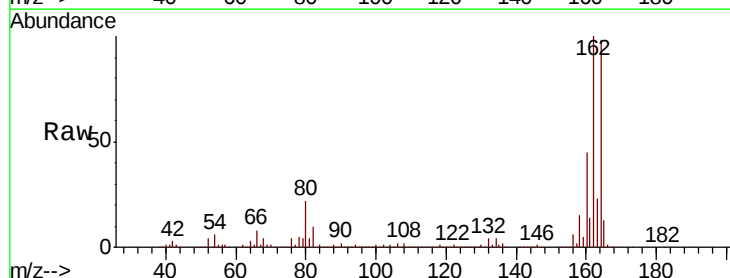
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1307
Delta R.T. 0.01 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	80.6	120.8
160	45.6	36.0	54.0

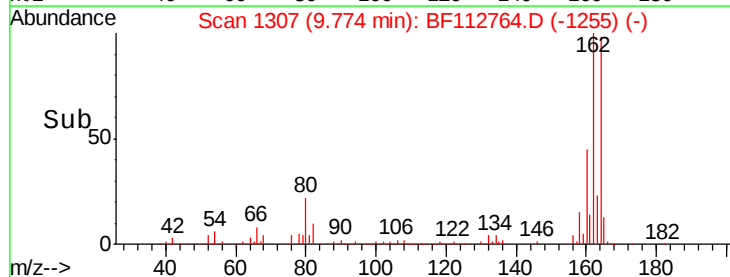
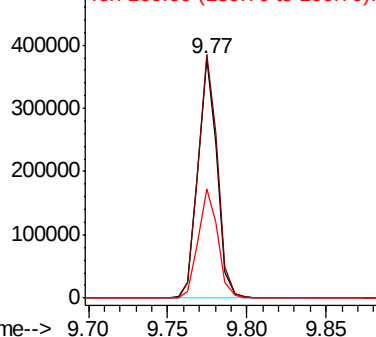


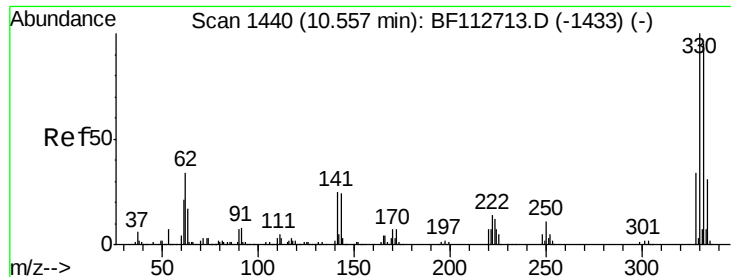
Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#42

2,4,6-Tribromophenol

Concen: 21.111 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.00 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Instrument :

BNA_F

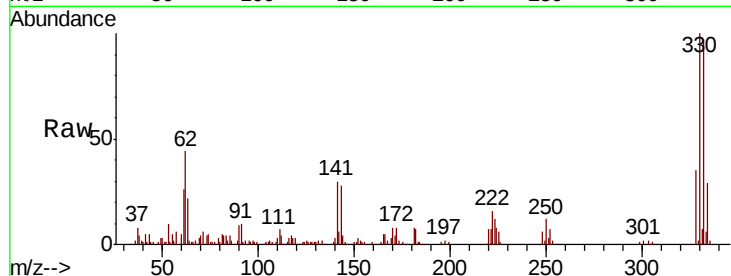
ClientSampleId :

OR-03-022719-A

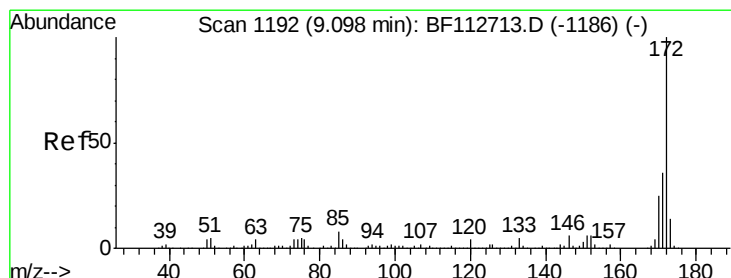
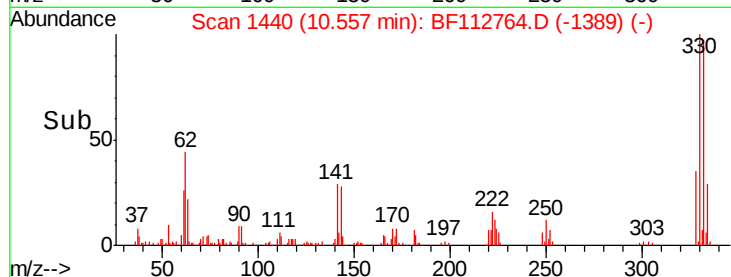
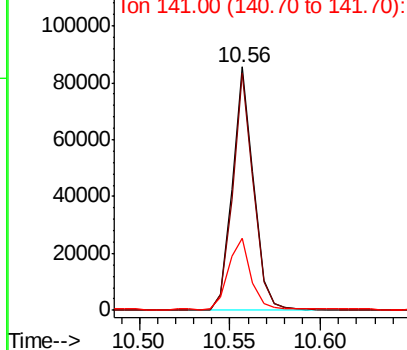
Tot Ion:	330	Resp:	69858
Ion Ratio	Lower	Upper	
330	100		
332	95.9	76.2	114.4
141	33.1	27.0	40.6

Manual Integrations
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3/1/2019 3:00:04 PM



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: 2.622 ng

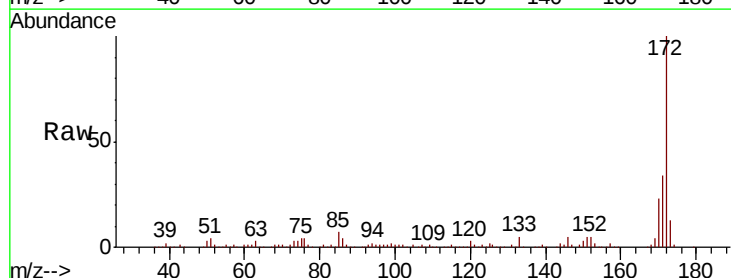
RT: 9.10 min Scan# 1192

Delta R.T. 0.00 min

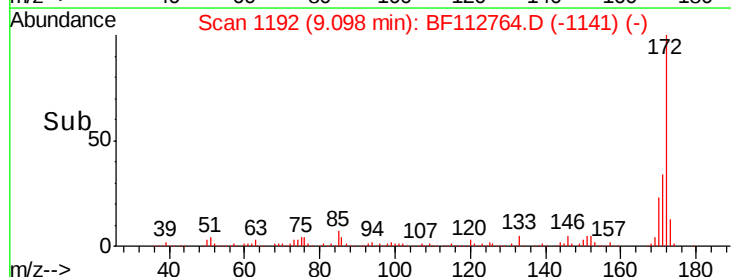
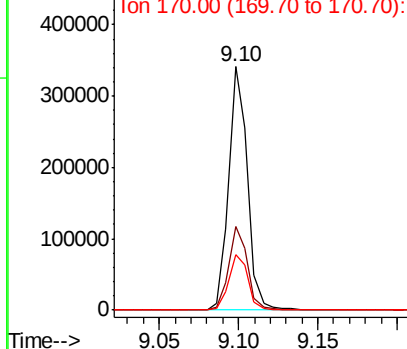
Lab File: BF112764.D

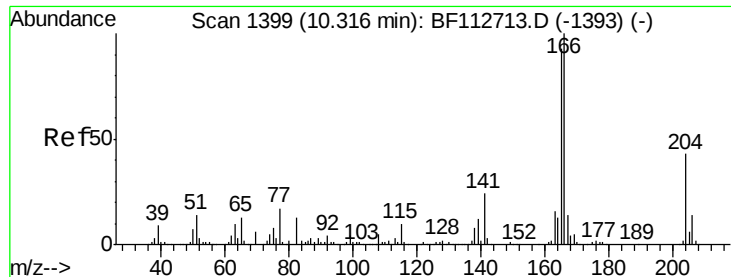
Acq: 28 Feb 2019 16:03

Tgt Ion:	172	Resp:	279721
Ion Ratio	Lower	Upper	
172	100		
171	34.4	29.0	43.4
170	23.0	20.0	30.0



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





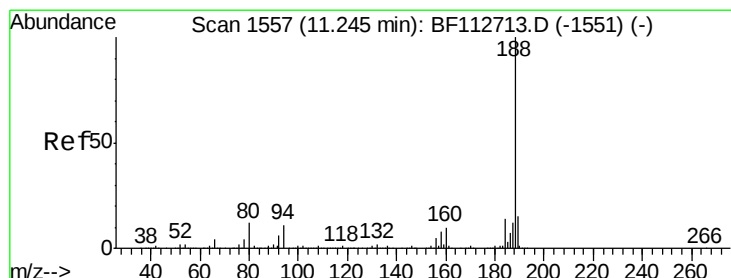
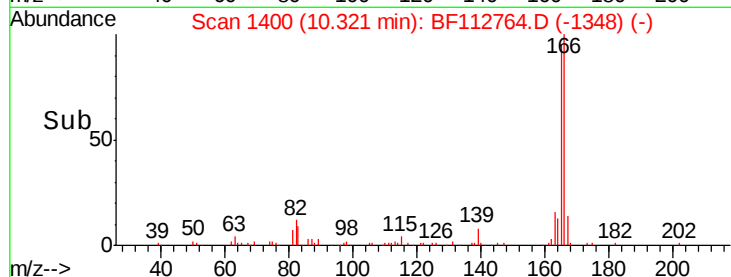
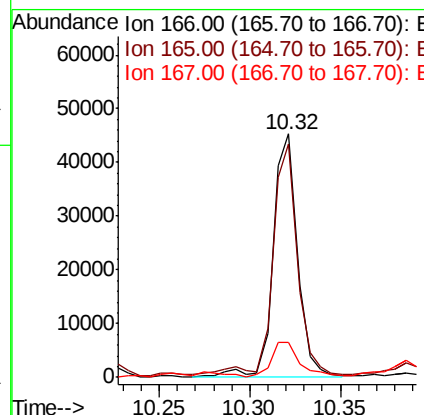
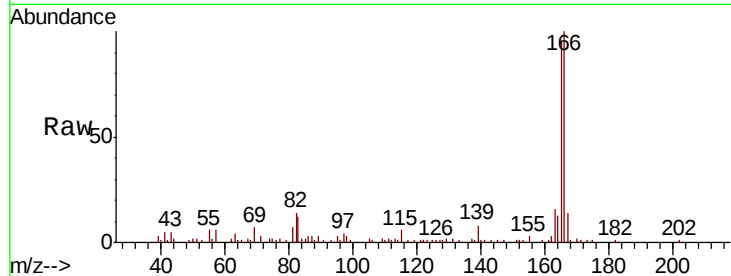
#58
 Fluorene
 Concen: 2.097 ng
 RT: 10.32 min Scan# 1400
 Delta R.T. 0.01 min
 Lab File: BF112764.D
 Acq: 28 Feb 2019 16:03

Instrument :
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 OR-03-022719-A

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	95.8	74.7	112.1	
167	14.2	11.0	16.6	

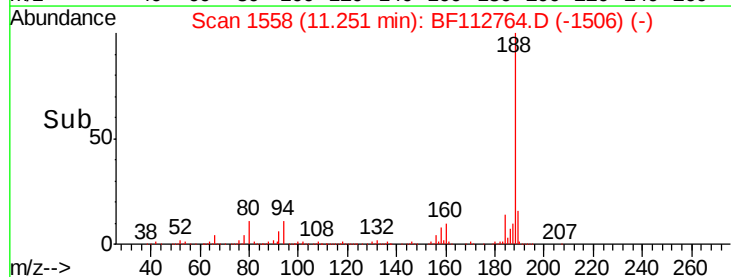
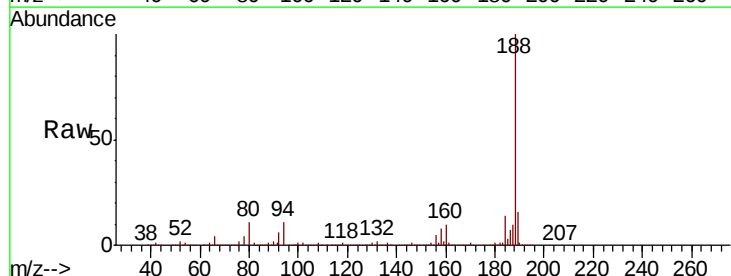
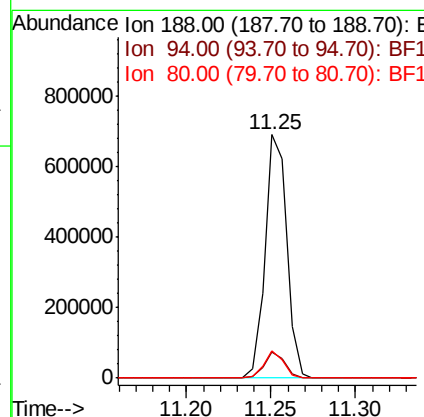
Manual Integrations
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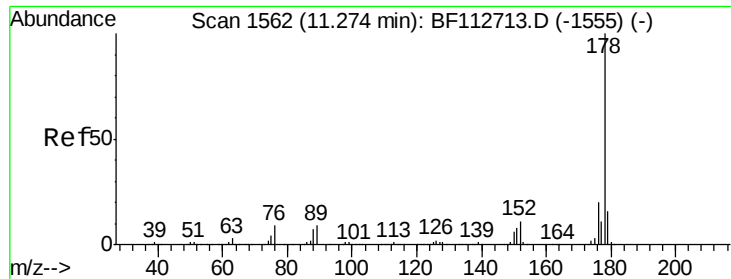
Sohil
 3/1/2019 3:00:04 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. 0.01 min
 Lab File: BF112764.D
 Acq: 28 Feb 2019 16:03

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	10.7	9.0	13.4	
80	11.4	9.2	13.8	





#71

Phenanthrene

Concen: 14.297 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Instrument :

BNA_F

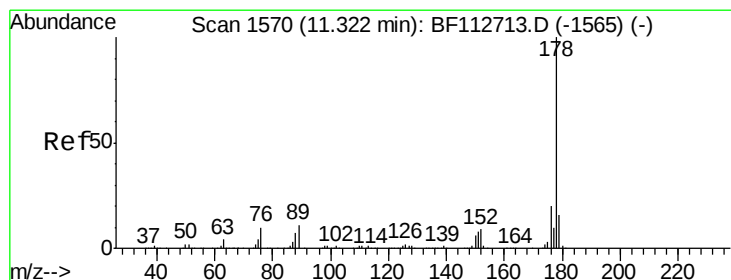
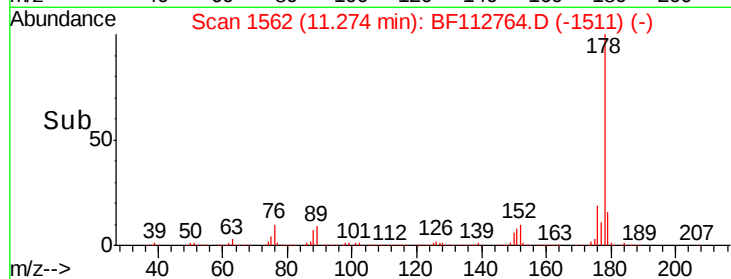
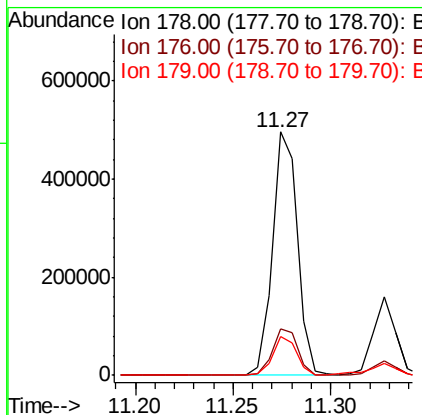
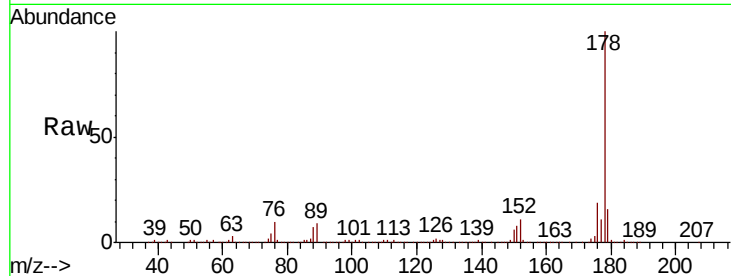
ClientSampleId :

OR-03-022719-A

Tot Ion:	178	Resp:	438543
Ion Ratio	Lower	Upper	
178	100		
176	19.3	16.3	24.5
179	15.7	12.7	19.1

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3/1/2019 3:00:04 PM



#72

Anthracene

Concen: 3.841 ng

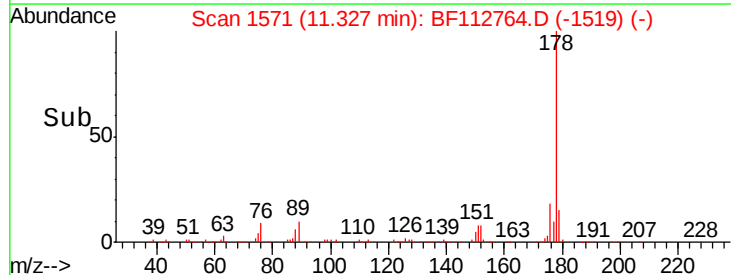
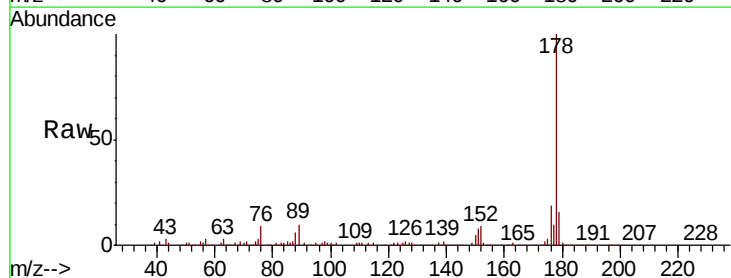
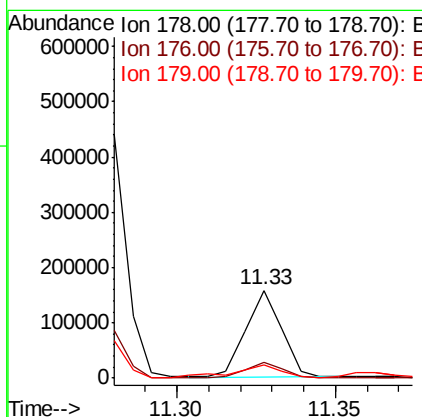
RT: 11.33 min Scan# 1571

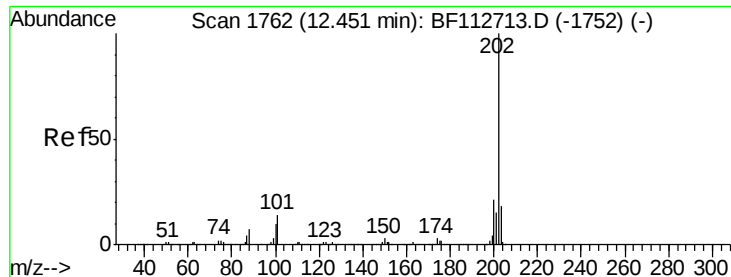
Delta R.T. 0.01 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Tgt Ion:	178	Resp:	123324
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.8	23.6
179	15.6	13.0	19.6





#75

Fluoranthene

Concen: 20.833 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Instrument :

BNA_F

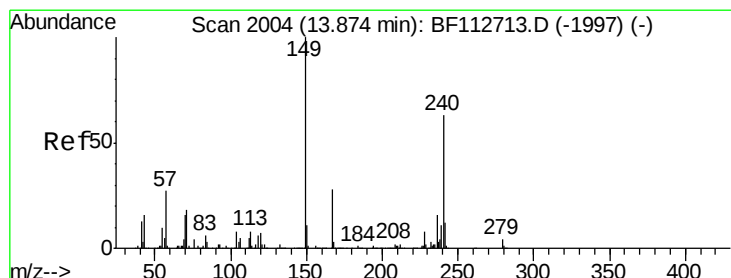
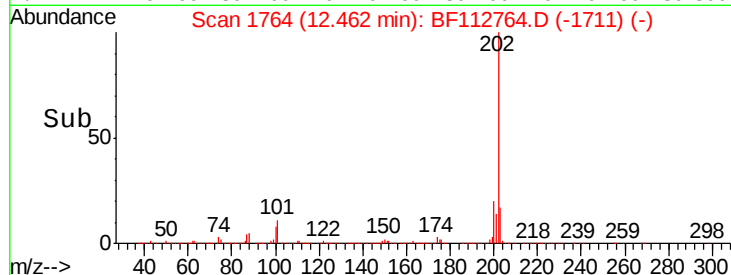
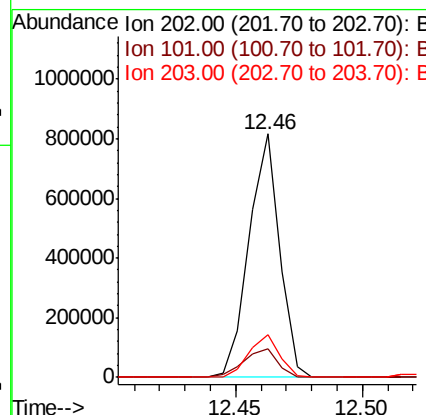
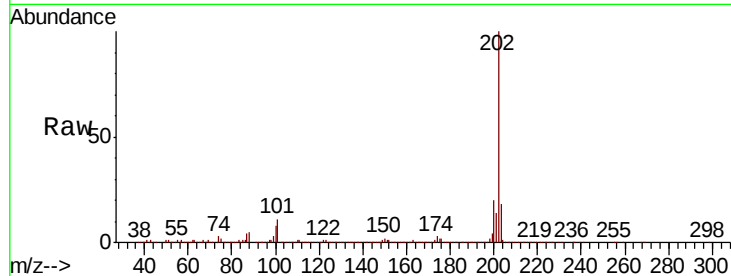
ClientSampleId :

OR-03-022719-A

Tot Ion:	202	Resp:	684635
Ion Ratio	Lower	Upper	
202	100		
101	11.5	0.0	33.8
203	17.5	0.0	38.4

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

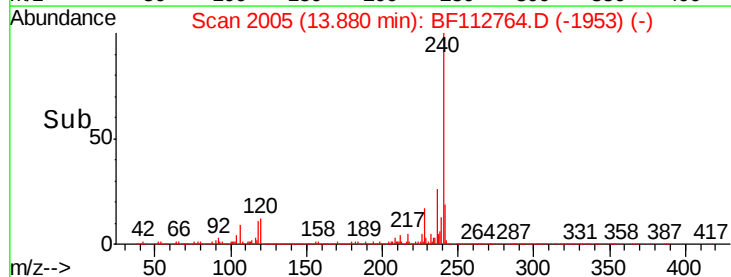
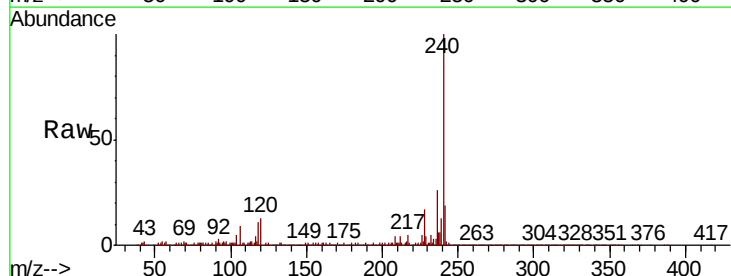
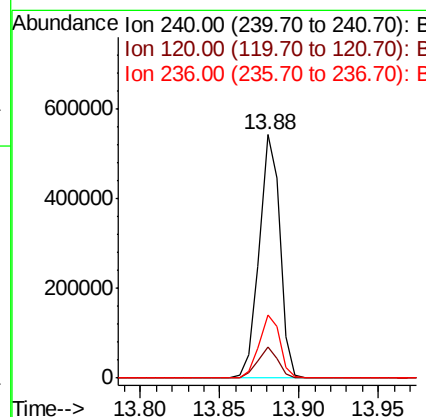
RT: 13.88 min Scan# 2005

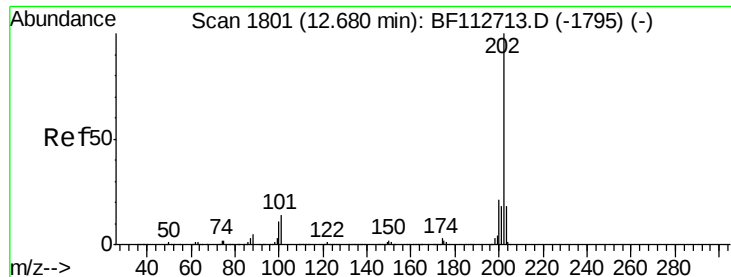
Delta R.T. 0.01 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Tgt Ion:	240	Resp:	490701
Ion Ratio	Lower	Upper	
240	100		
120	12.6	8.9	13.3
236	26.1	20.7	31.1





#78

Pvrene

Concen: 15.131 ng

RT: 12.69 min Scan# 1802

Delta R.T. 0.01 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Instrument :

BNA_F

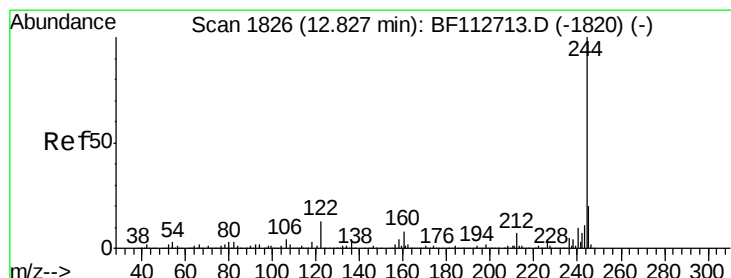
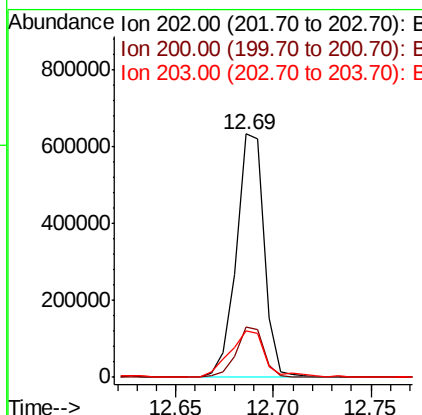
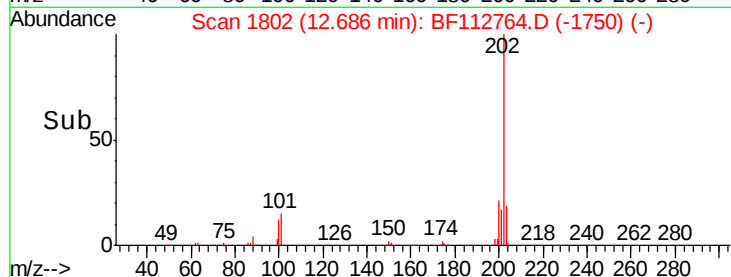
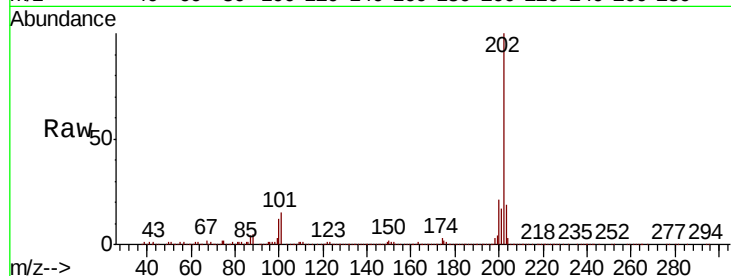
ClientSampleId :

OR-03-022719-A

Tot Ion:	202	Resp:	625944
Ion Ratio	Lower	Upper	
202	100		
200	20.7	17.0	25.4
203	19.1	14.4	21.6

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#79

Terphenyl-d14

Concen: 12.215 ng

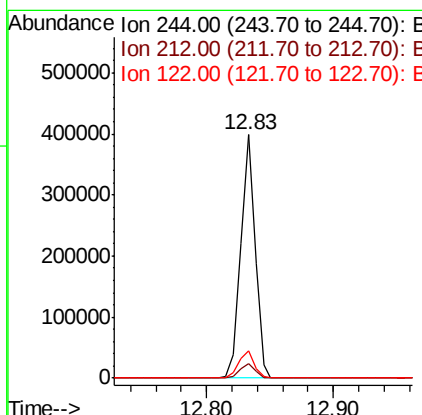
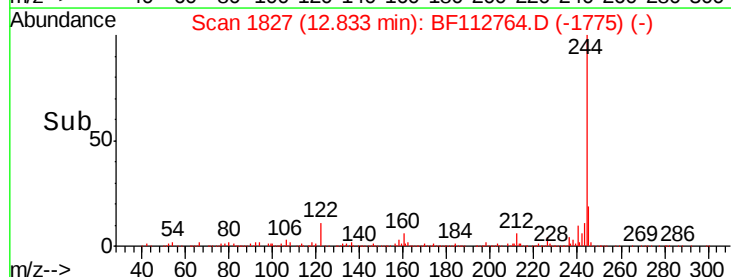
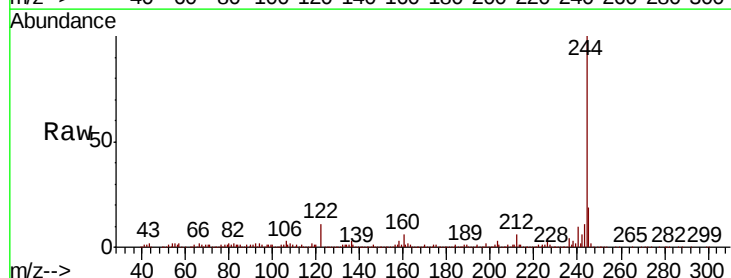
RT: 12.83 min Scan# 1827

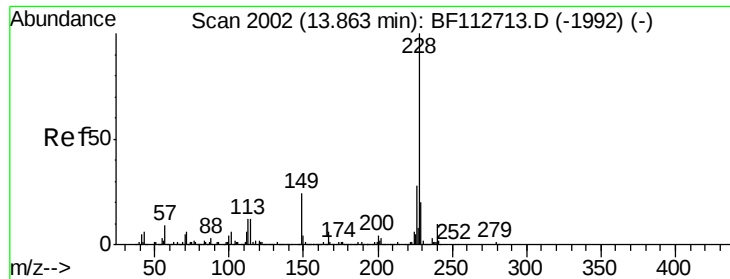
Delta R.T. 0.01 min

Lab File: BF112764.D

Acq: 28 Feb 2019 16:03

Tgt Ion:	244	Resp:	309193
Ion Ratio	Lower	Upper	
244	100		
212	5.9	5.6	8.4
122	11.3	10.5	15.7





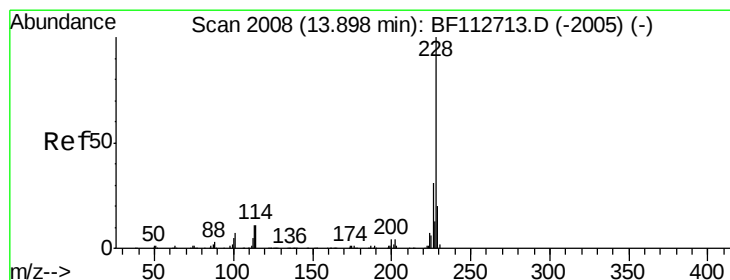
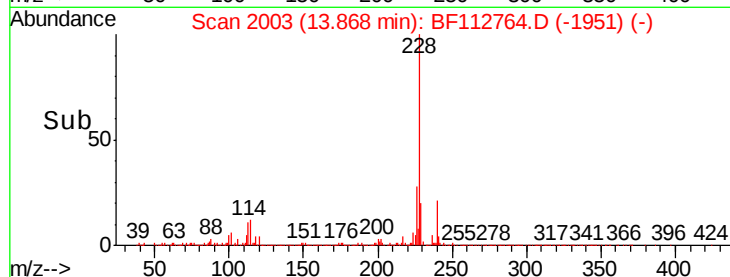
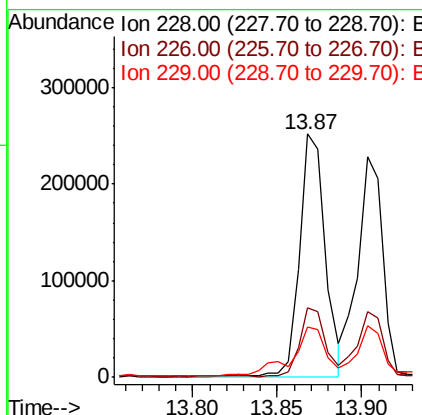
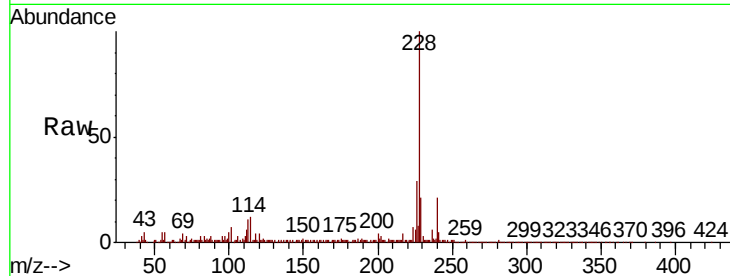
#81
Benzo(a)anthracene
Concen: 7.780 ng
RT: 13.87 min Scan# 2003
Delta R.T. 0.01 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Instrument :
BNA_F
ClientSampleId :
OR-03-022719-A

Tot Ion	Ratio	Resp	Lower	Upper
228	100	264581		
226	28.8		22.2	33.4
229	20.7		16.0	24.0

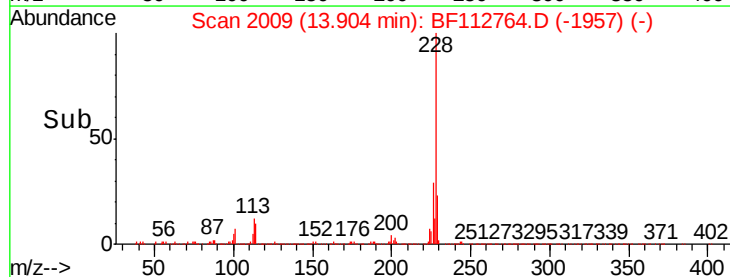
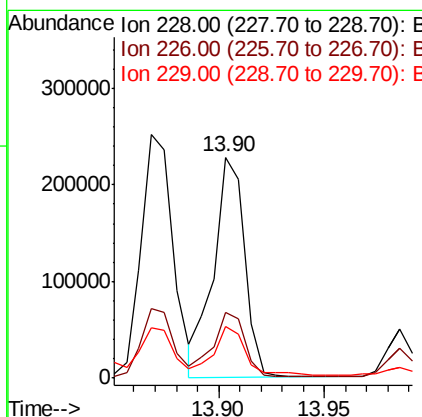
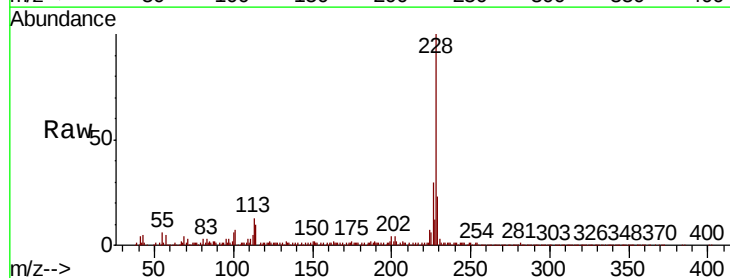
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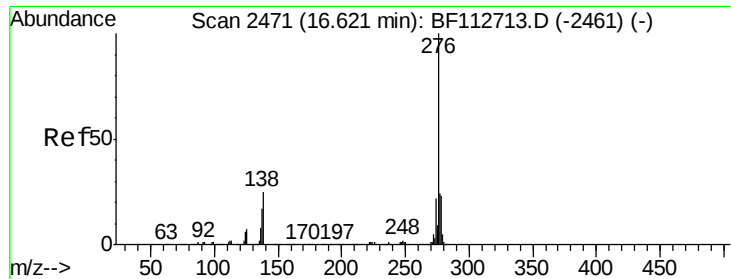
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#83
Chrysene
Concen: 7.010 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.01 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	233530		
226	29.7		24.9	37.3
229	23.1		16.3	24.5





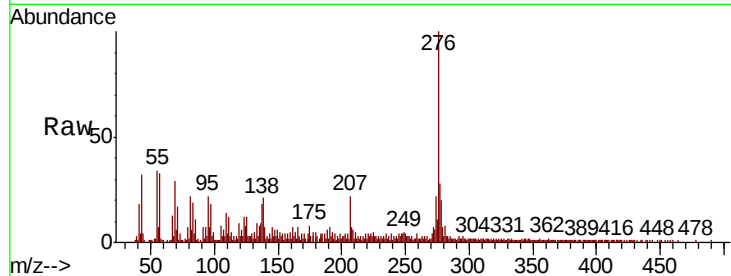
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.377 ng
RT: 16.66 min Scan# 2477
Delta R.T. 0.04 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Instrument :
BNA_F
ClientSampleId :
OR-03-022719-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.9	23.2	34.8#
277	24.5	19.9	29.9

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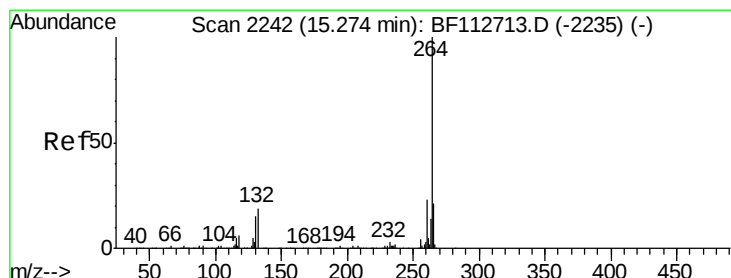
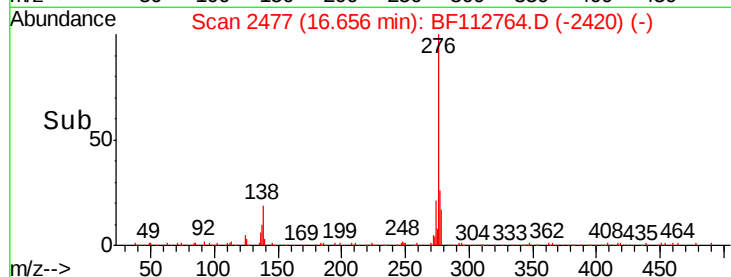
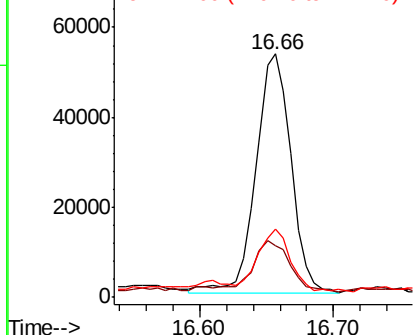


Abundance

Ion 276.00 (275.70 to 276.70): E

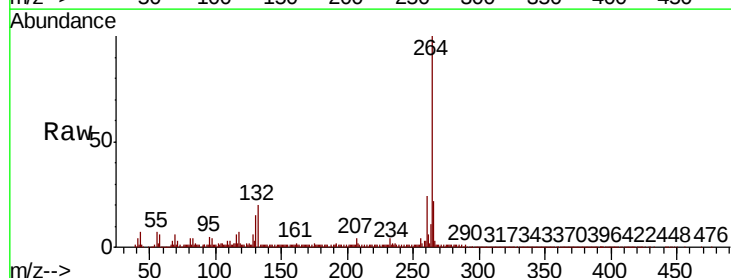
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.02 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.7	28.1
265	21.6	17.2	25.8

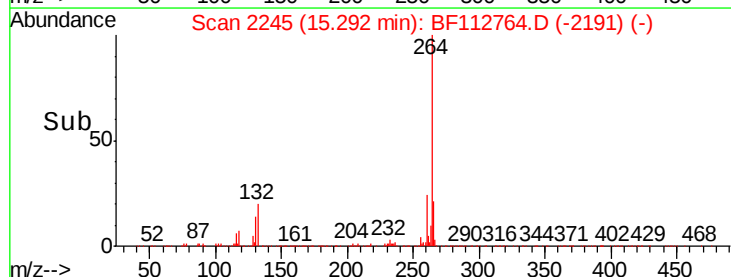
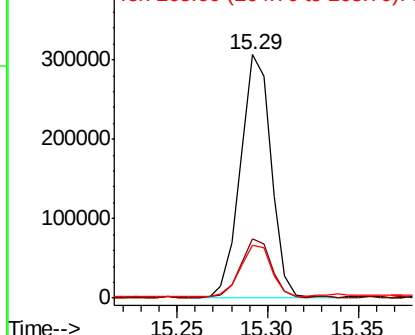


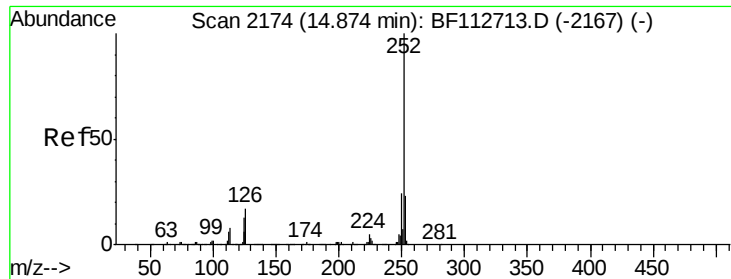
Abundance

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





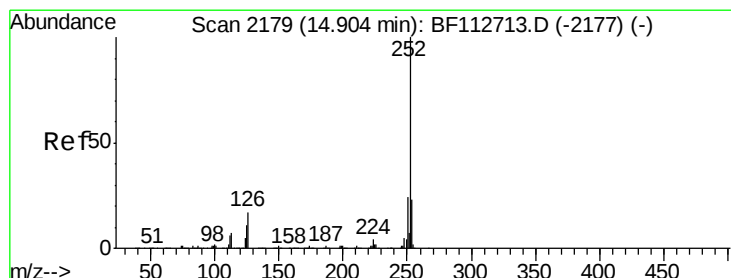
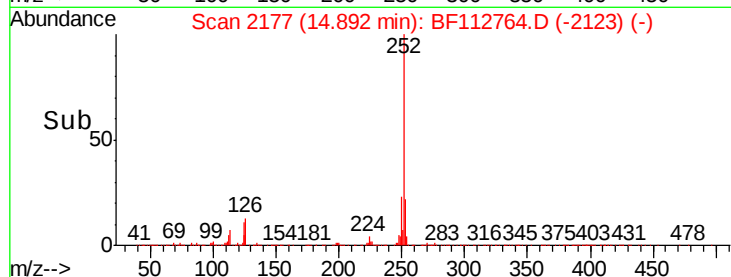
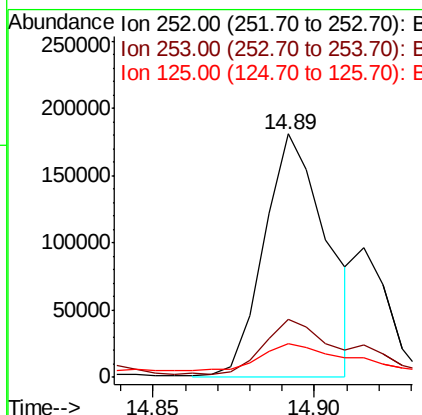
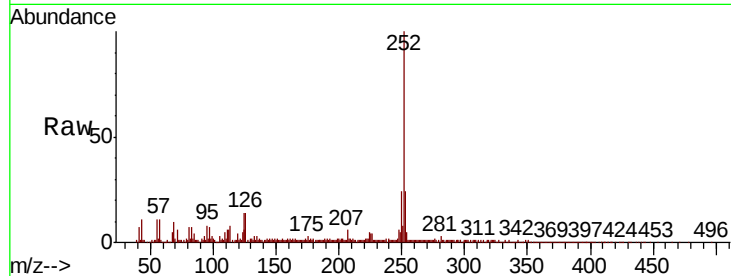
#88
Benzo(b)fluoranthene
Concen: 10.677 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.02 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Instrument :
BNA_F
ClientSampleId :
OR-03-022719-A

Tot Ion	Ratio	Resp	Lower	Upper
252	100	246597		
253	23.8		18.0	27.0
125	13.9		10.2	15.2

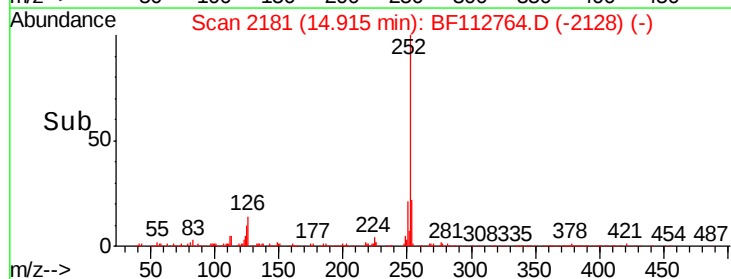
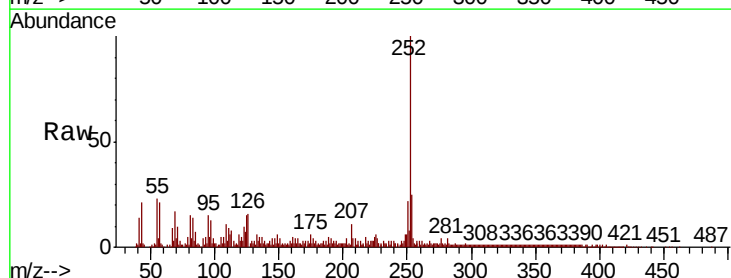
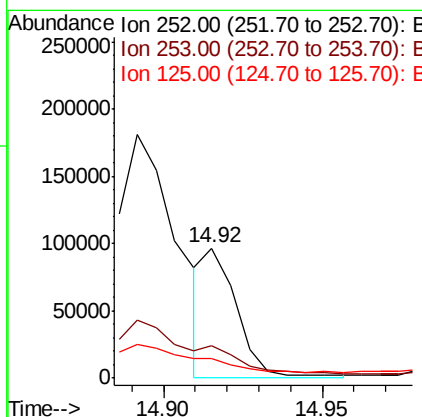
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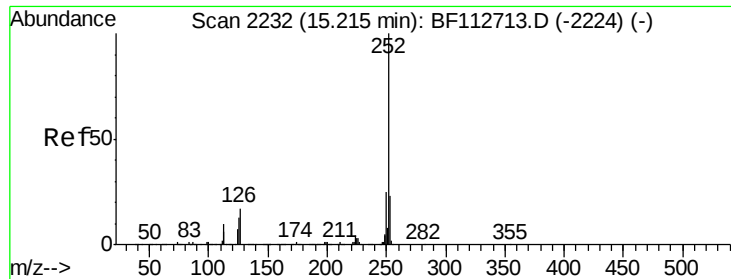
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3/1/2019 3:00:04 PM



#89
Benzo(k)fluoranthene
Concen: 3.380 ng m
RT: 14.92 min Scan# 2181
Delta R.T. 0.01 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	70716		
253	24.7		18.2	27.2
125	14.8		9.8	14.6





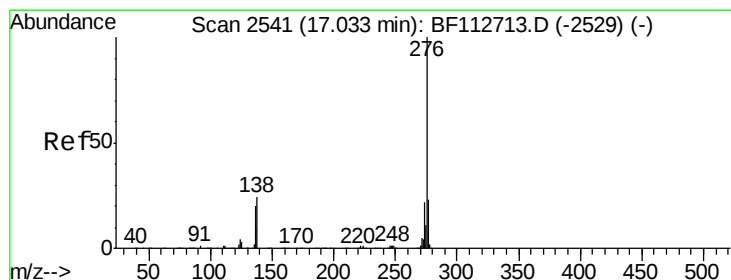
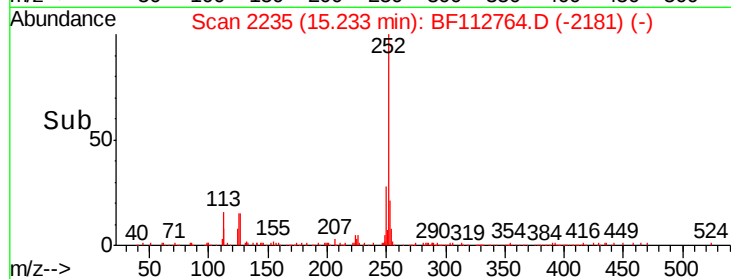
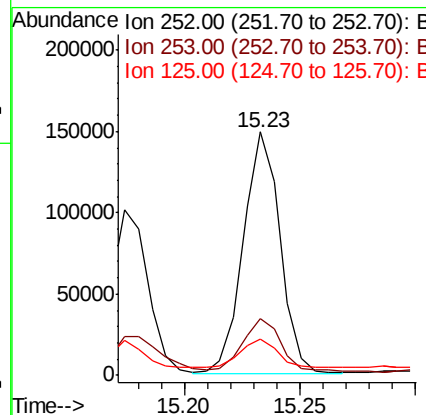
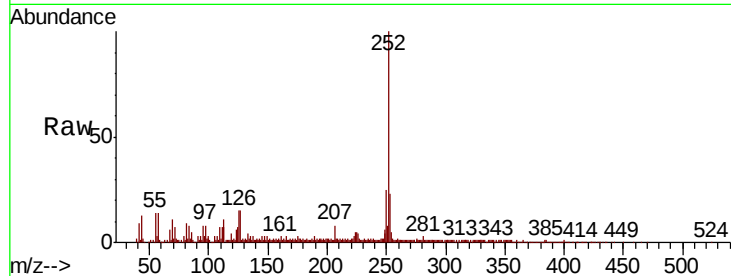
#90
Benzo(a)pyrene
Concen: 8.040 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.02 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Instrument :
BNA_F
ClientSampleId :
OR-03-022719-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.0	27.0
125	14.8	10.7	16.1

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 5.157 ng
RT: 17.06 min Scan# 2546
Delta R.T. 0.03 min
Lab File: BF112764.D
Acq: 28 Feb 2019 16:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.6	27.8
138	25.1	19.4	29.0

