

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\
 Data File : BF112831.D
 Acq On : 4 Mar 2019 18:24
 Operator : JU/SJ
 Sample : K1712-15 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-3

Manual Integrations
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 3/6/2019 9:28:21 AM

Quant Time: Mar 05 01:43:39 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	155915	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	602644	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	263028	20.00	ng	0.00
64) Phenanthrene-d10	11.26	188	524733	20.00	ng	0.01
76) Chrysene-d12	13.89	240	450769	20.00	ng	0.01
87) Perylene-d12	15.30	264	330453	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	228847	22.83	ng	0.00
7) Phenol-d6	6.37	99	297685	23.64	ng	0.00
23) Nitrobenzene-d5	7.30	82	155812	15.47	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	78762	28.21	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	298280	14.33	ng	0.00
79) Terphenyl-d14	12.83	244	318620	13.70	ng	0.00
Target Compounds						
71) Phenanthrene	11.28	178	309856	11.868	ng	98
72) Anthracene	11.33	178	58587	2.144	ng	99
75) Fluoranthene	12.46	202	501848	17.942	ng	96
78) Pyrene	12.69	202	477500	12.565	ng	99
81) Benzo(a)anthracene	13.87	228	184406	5.903	ng	96
83) Chrysene	13.91	228	212037	6.929	ng	96
86) Indeno(1,2,3-cd)pyrene	16.66	276	64780m	2.483	ng	
88) Benzo(b)fluoranthene	14.90	252	201537m	9.429	ng	
89) Benzo(k)fluoranthene	14.92	252	46435m	2.398	ng	
90) Benzo(a)pyrene	15.24	252	111028	5.873	ng	100
92) Benzo(g,h,i)perylene	17.07	276	67815	4.186	ng	96

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

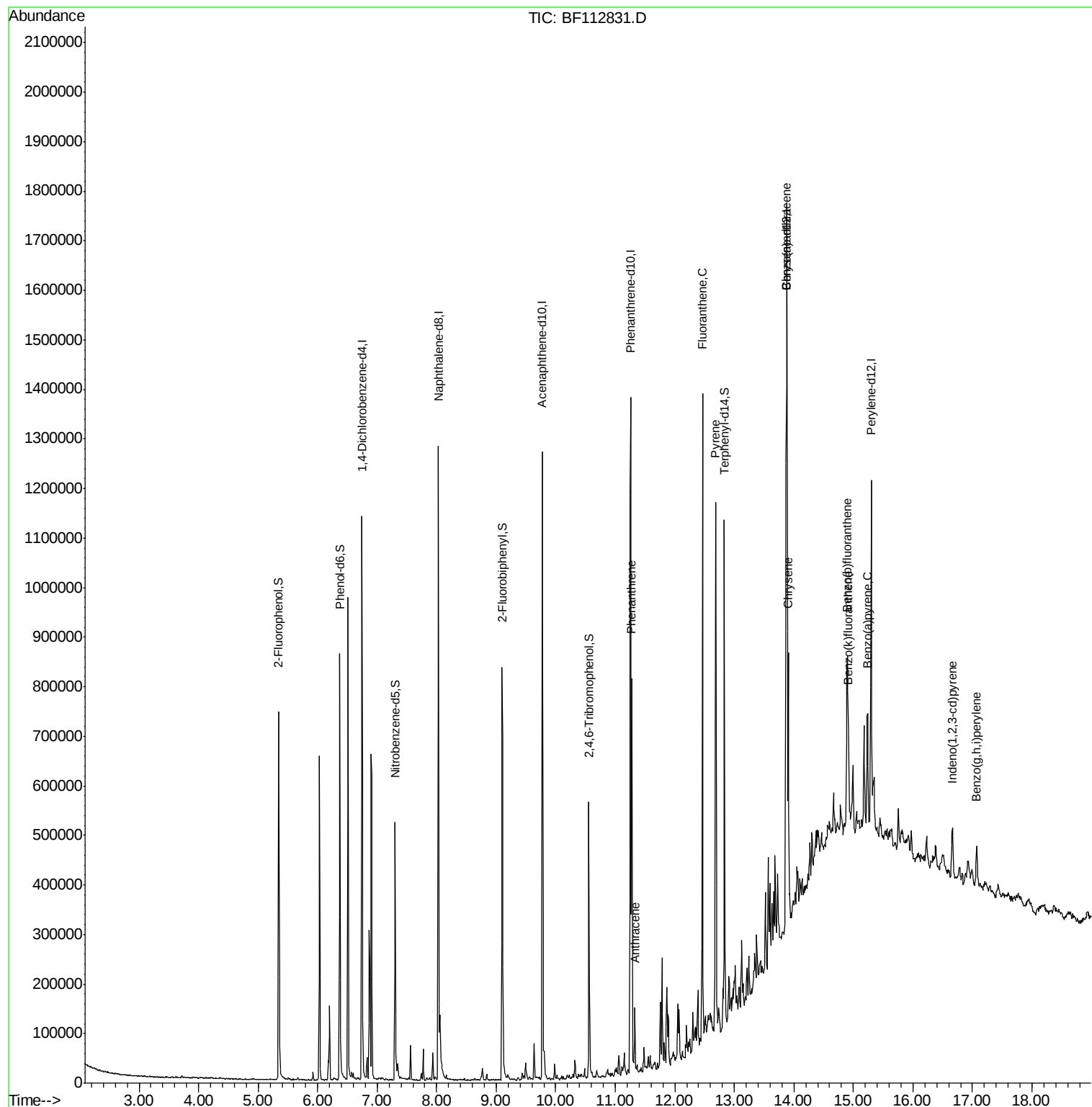
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030419\
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ALS Vial : 17 Sample Multiplier: 1

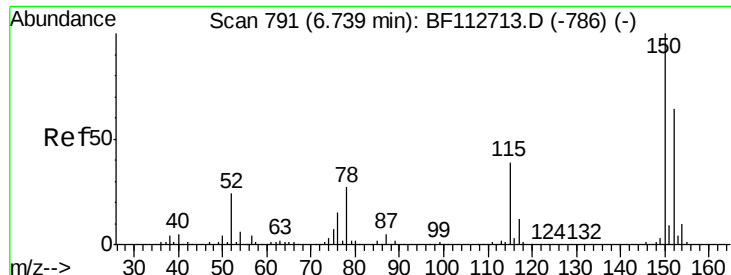
Instrument :
BNA_F
ClientSampled :
Z-2-3

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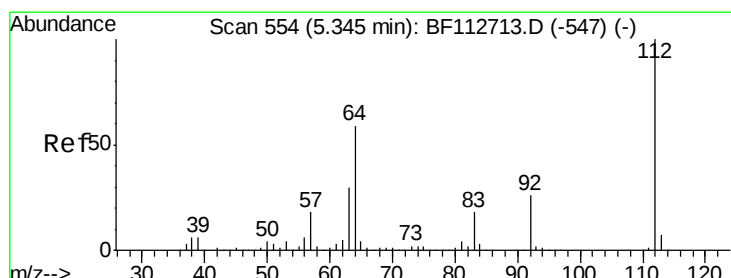
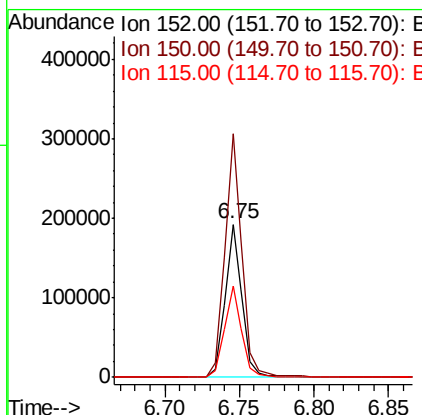
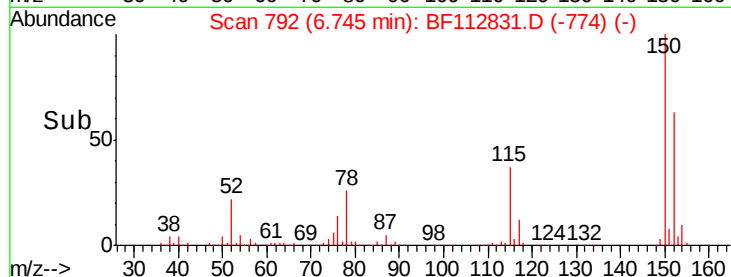
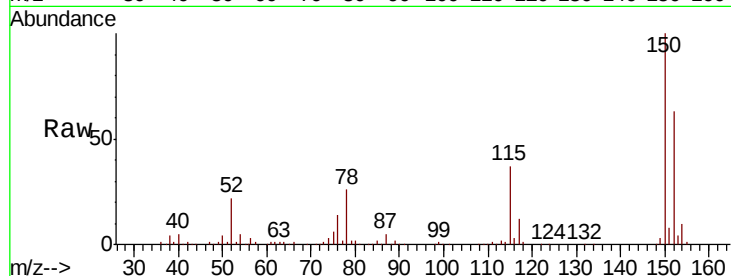
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.75 min Scan# 792
 Delta R.T. 0.01 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

Instrument :
 BNA_F
 ClientSampled :
 Z-2-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	124.2	186.2
115	59.2	48.2	72.4

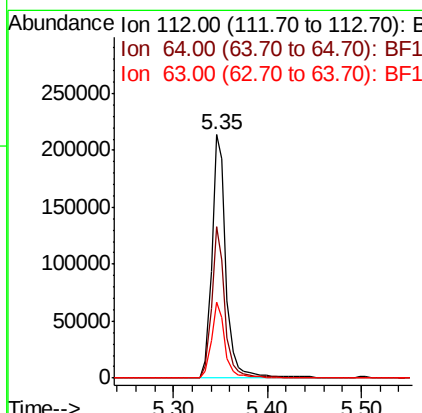
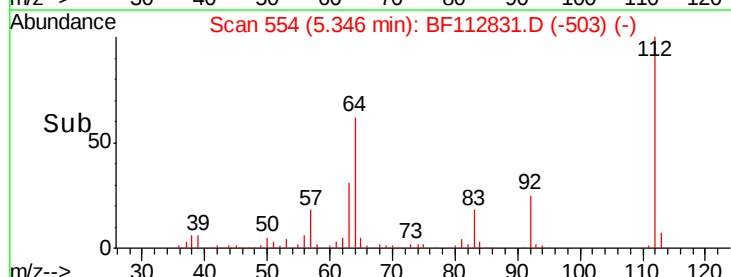
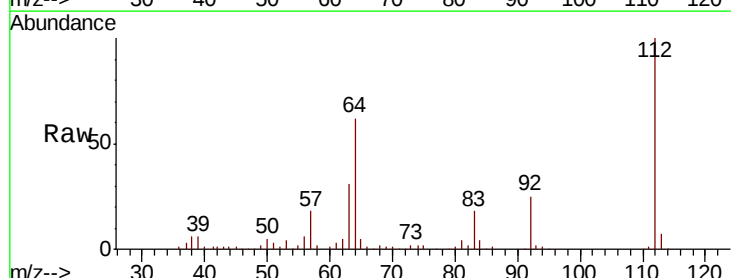
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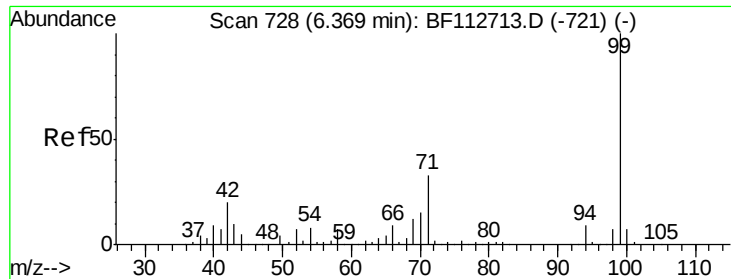
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#5
 2-Fluorophenol
 Concen: 22.832 ng
 RT: 5.35 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.0	47.6	71.4
63	31.0	24.4	36.6





#7

Phenol-d6

Concen: 23.643 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.00 min

Lab File: BF112831.D

Acq: 4 Mar 2019 18:24

Instrument :

BNA_F

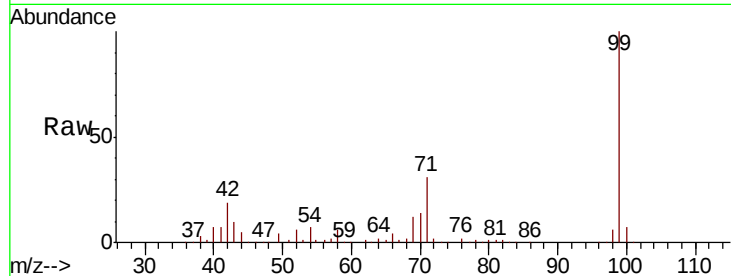
ClientSampleId :

Z-2-3

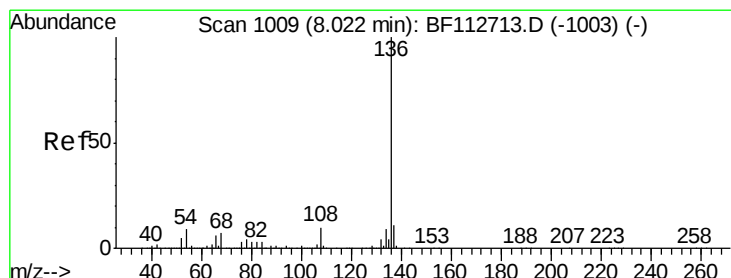
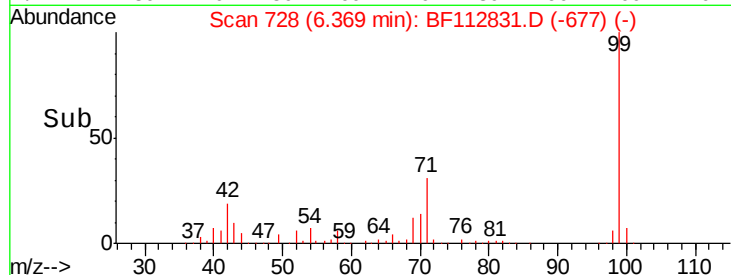
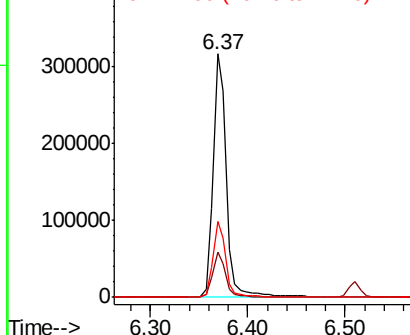
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		297685		
42	18.8	16.3	24.5		
71	31.2	26.2	39.4		

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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: 8.03 min Scan# 1010

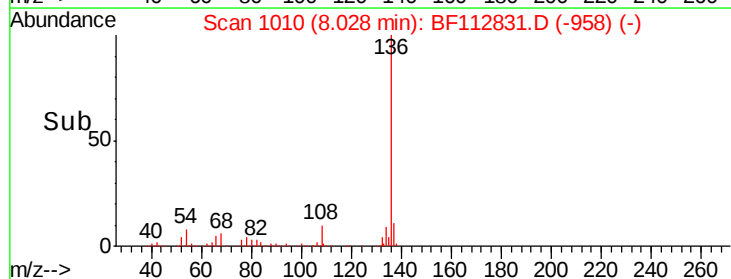
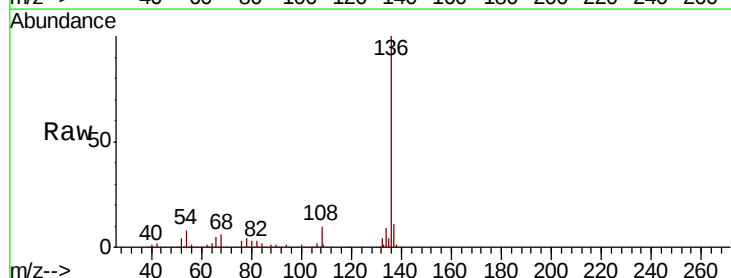
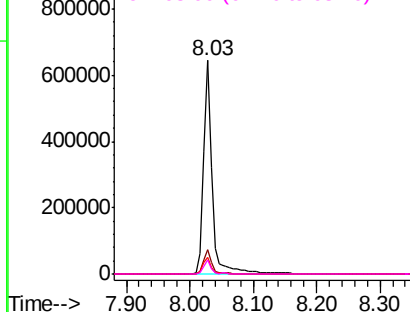
Delta R.T. 0.01 min

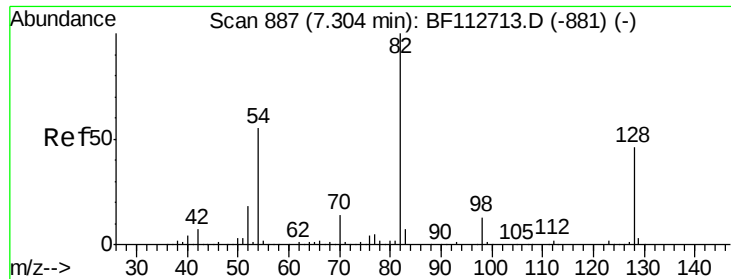
Lab File: BF112831.D

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		602644		
137	11.1	8.9	13.3		
54	8.1	7.3	10.9		
68	6.3	5.4	8.2		

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





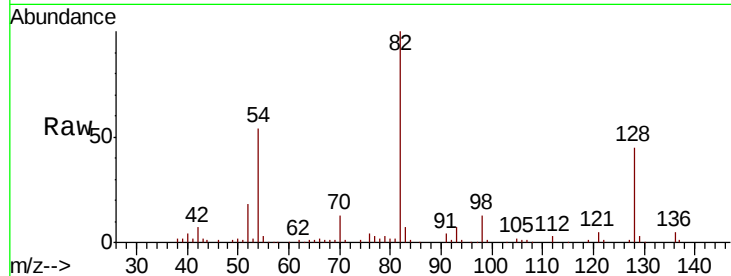
#23
Nitrobenzene-d5
Concen: 15.471 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Instrument :
BNA_F
ClientSampled :
Z-2-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.3	54.5
54	53.6	43.7	65.5

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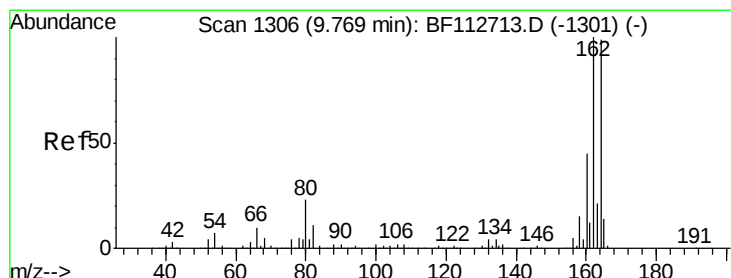
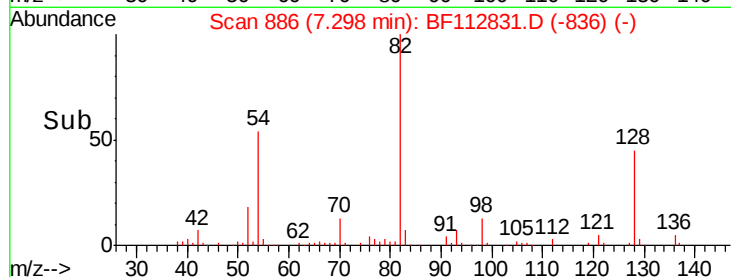
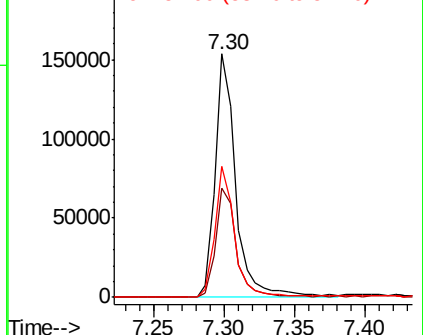


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

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: BF112831.D
Acq: 4 Mar 2019 18:24

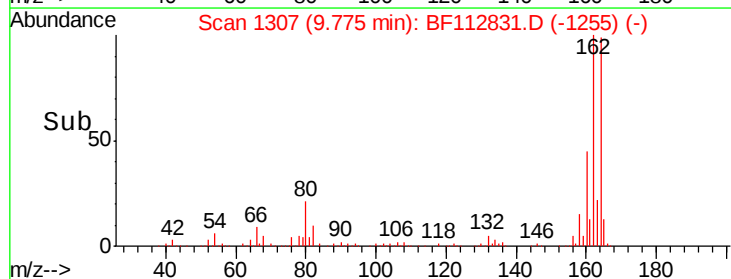
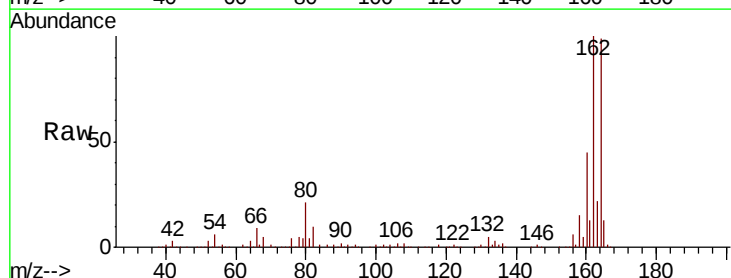
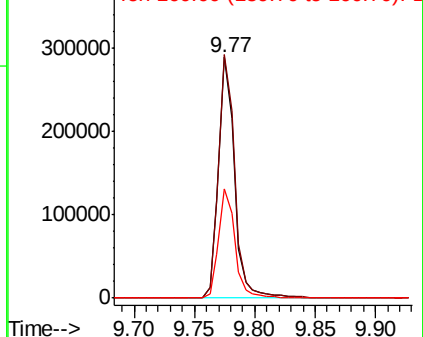
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.6	120.8
160	45.6	36.0	54.0

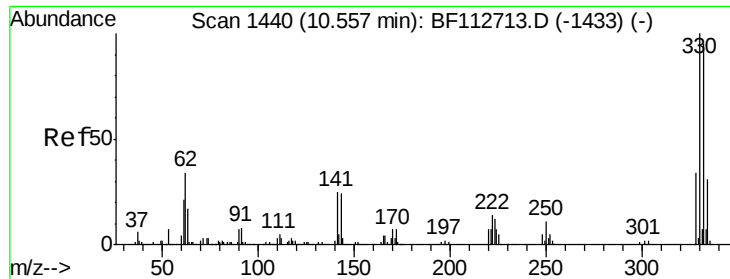
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





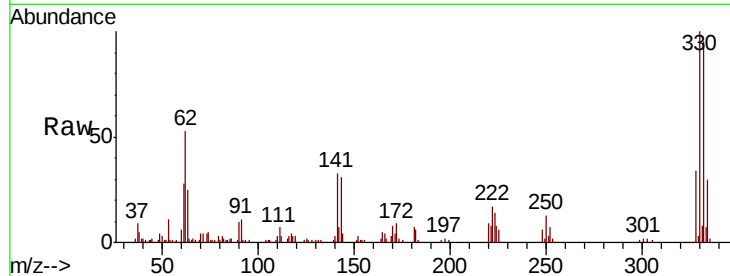
#42
 2,4,6-Tribromophenol
 Concen: 28.206 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. 0.00 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-3

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.2	114.4
141	30.4	27.0	40.6

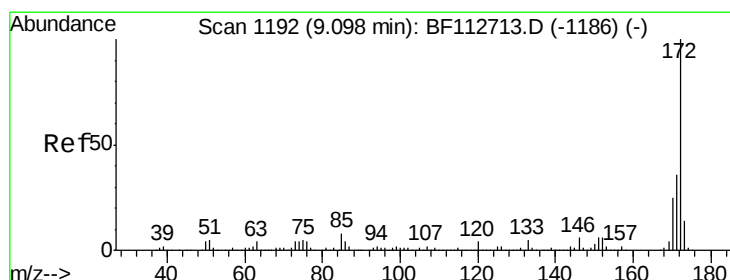
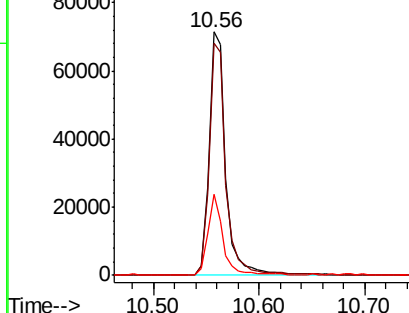
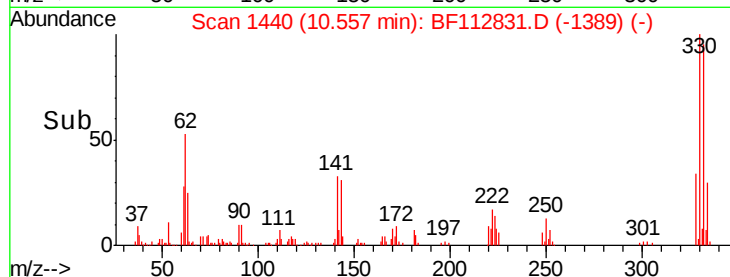
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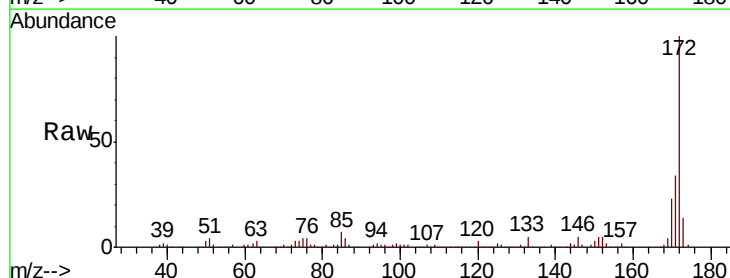
Abundance

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



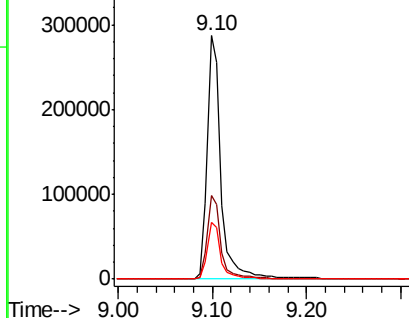
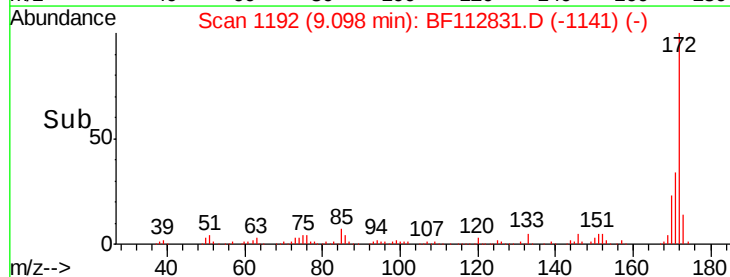
#45
 2-Fluorobiphenyl
 Concen: 14.335 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. 0.00 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

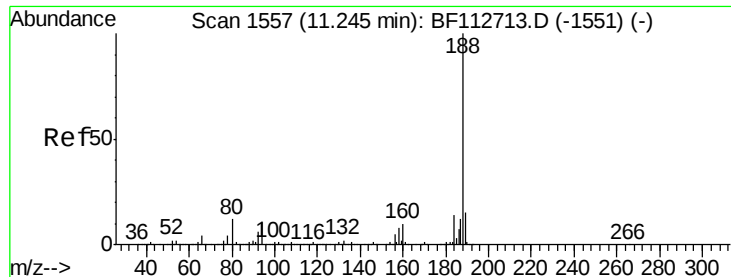
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.0	43.4
170	23.4	20.0	30.0



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





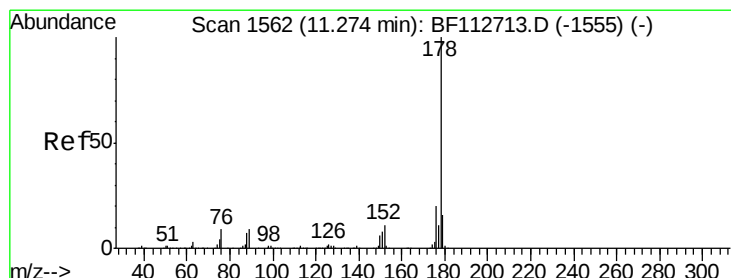
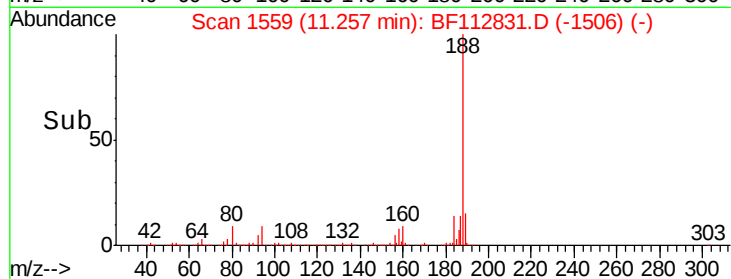
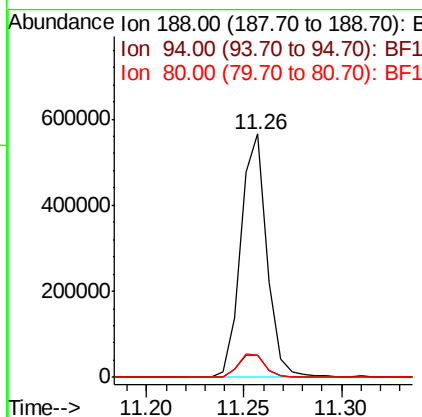
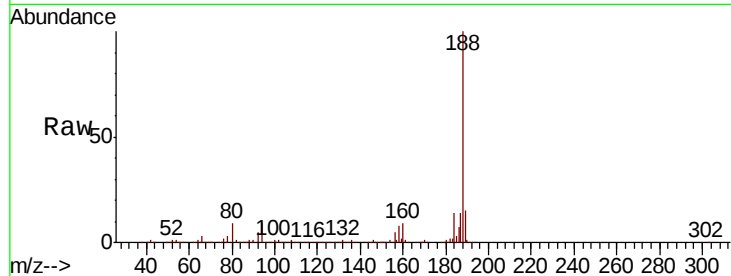
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.26 min Scan# 1559
Delta R.T. 0.01 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Instrument :
BNA_F
ClientSampleId :
Z-2-3

Tot Ion:	188	Resp:	524733
Ion Ratio	Lower	Upper	
188	100		
94	9.2	9.0	13.4
80	9.4	9.2	13.8

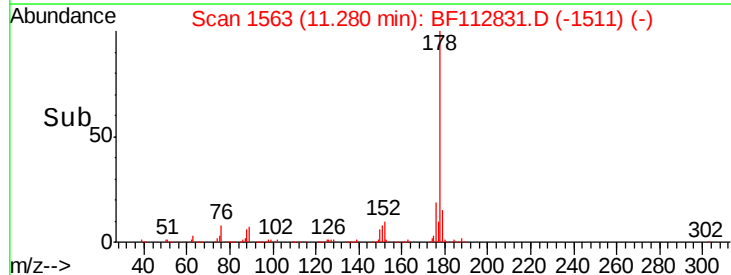
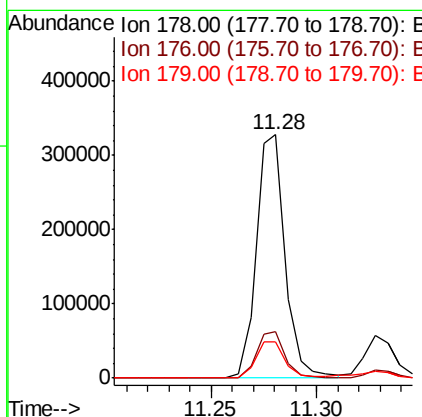
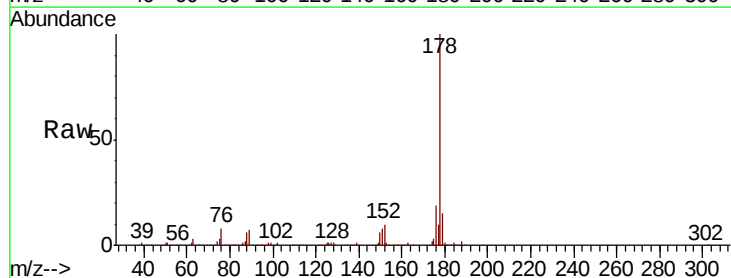
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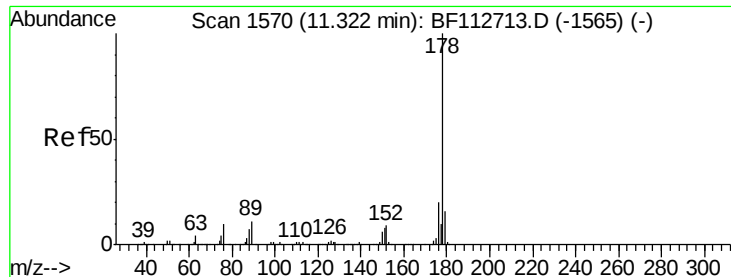
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#71
Phenanthrene
Concen: 11.868 ng
RT: 11.28 min Scan# 1563
Delta R.T. 0.01 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Tgt Ion:	178	Resp:	309856
Ion Ratio	Lower	Upper	
178	100		
176	19.3	16.3	24.5
179	15.0	12.7	19.1





#72

Anthracene

Concen: 2.144 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BF112831.D

Acq: 4 Mar 2019 18:24

Instrument :

BNA_F

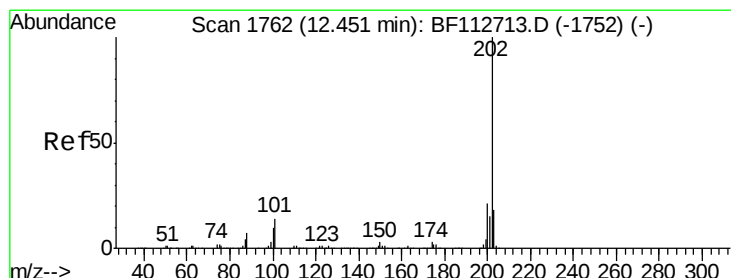
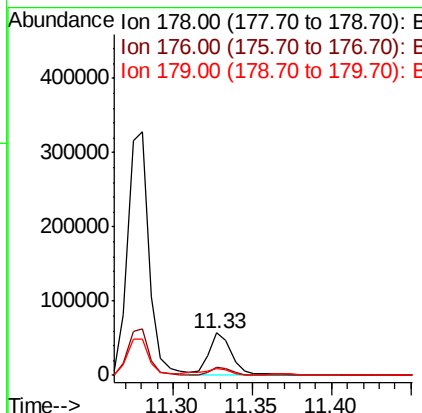
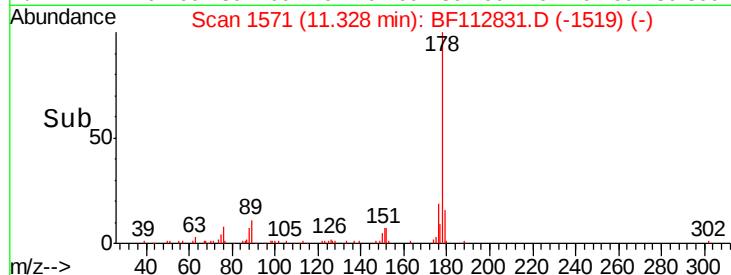
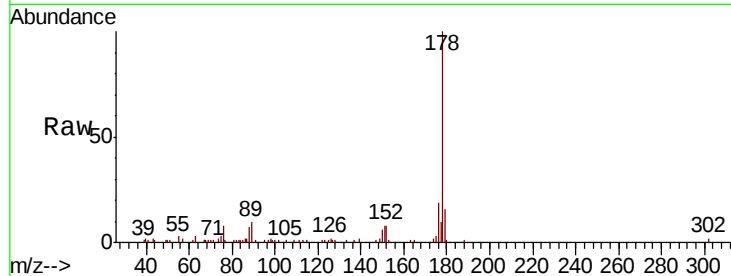
ClientSampleId :

Z-2-3

Tot Ion:	178	Resp:	58587
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.8	23.6
179	16.0	13.0	19.6

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#75

Fluoranthene

Concen: 17.942 ng

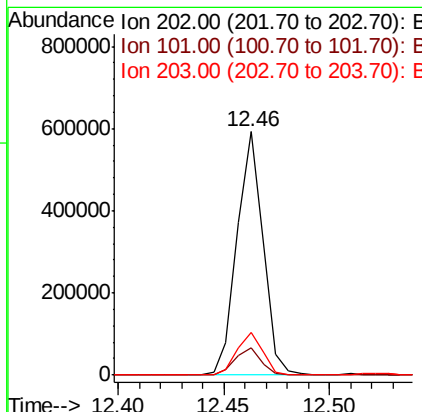
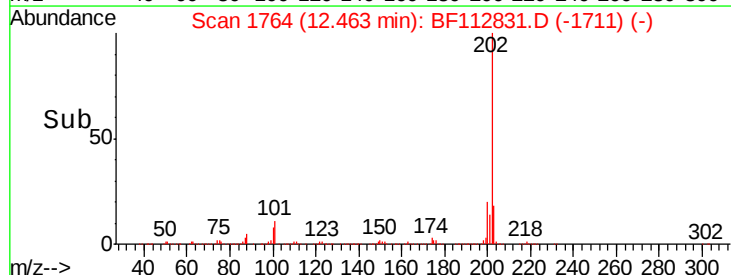
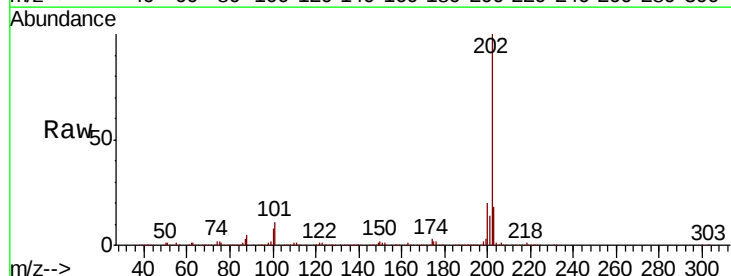
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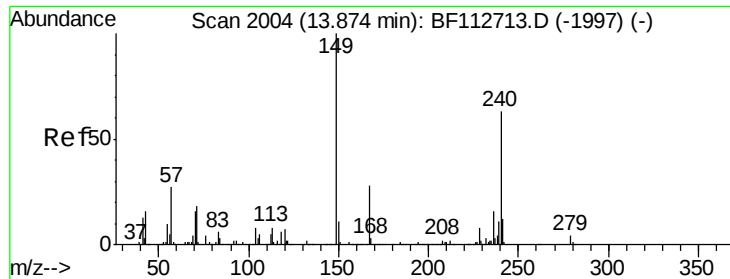
Delta R.T. 0.01 min

Lab File: BF112831.D

Acq: 4 Mar 2019 18:24

Tgt Ion:	202	Resp:	501848
Ion Ratio	Lower	Upper	
202	100		
101	11.2	0.0	33.8
203	17.7	0.0	38.4





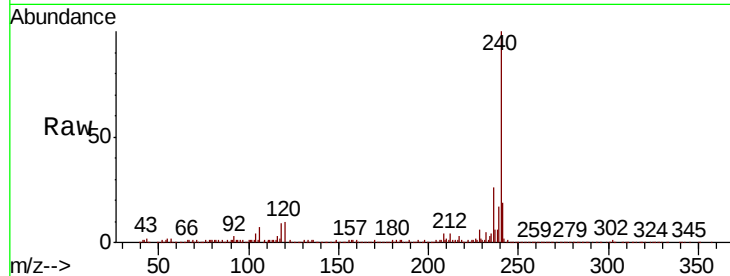
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.01 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Instrument :
BNA_F
ClientSampleId :
Z-2-3

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.9	13.3
236	26.1	20.7	31.1

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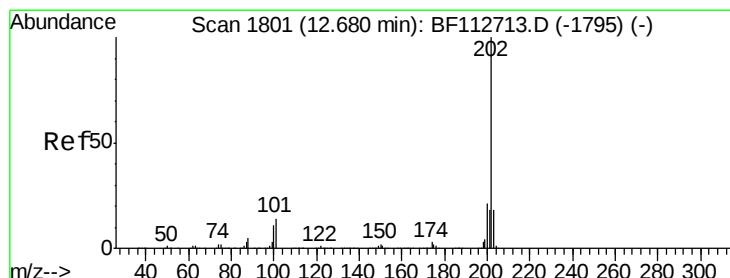
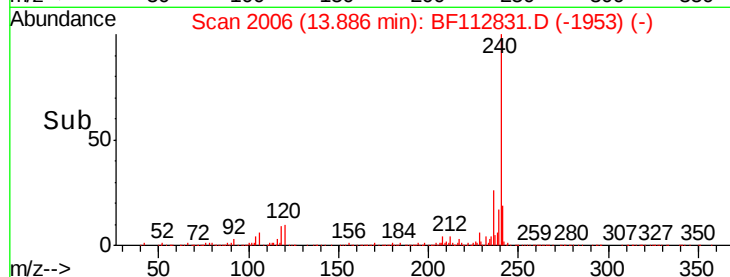
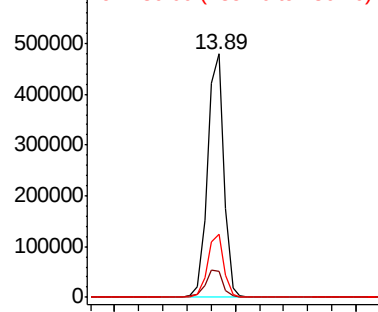


Abundance

Ion 240.00 (239.70 to 240.70): E

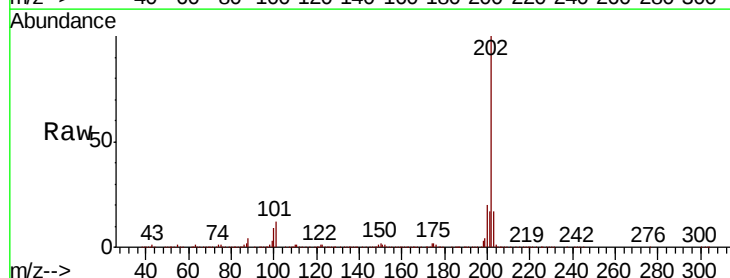
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 12.565 ng
RT: 12.69 min Scan# 1803
Delta R.T. 0.01 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.0	25.4
203	17.5	14.4	21.6

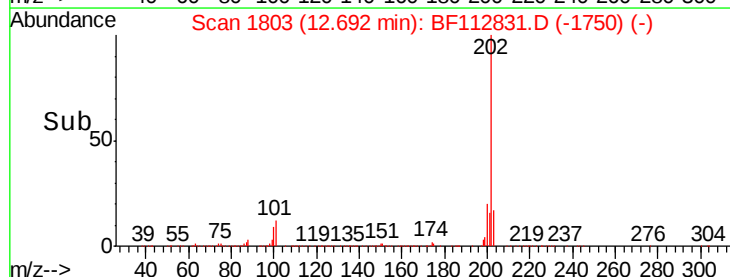
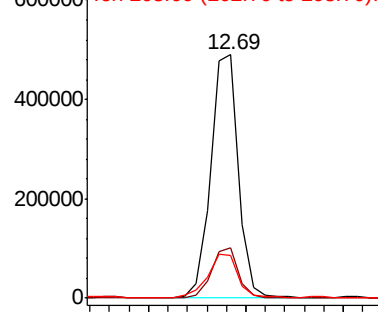


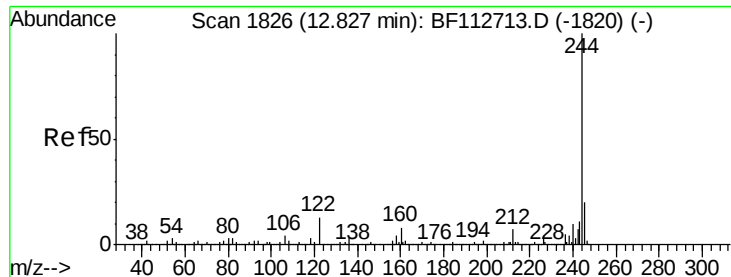
Abundance

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





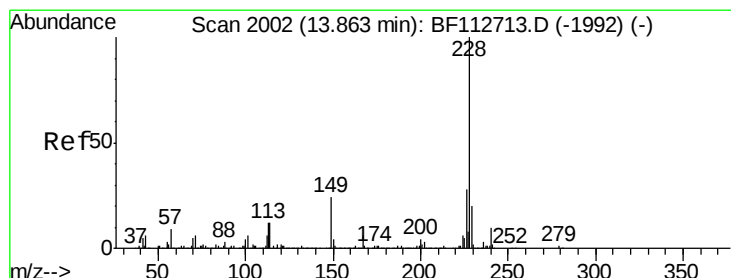
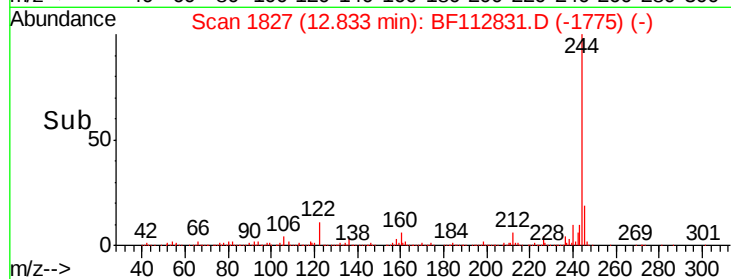
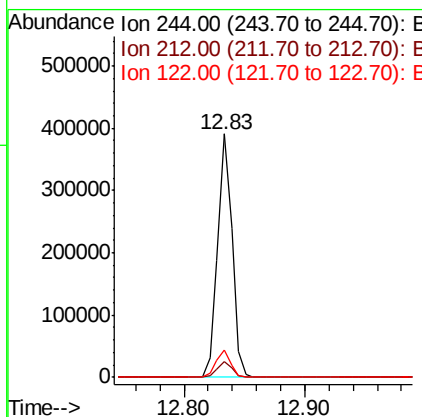
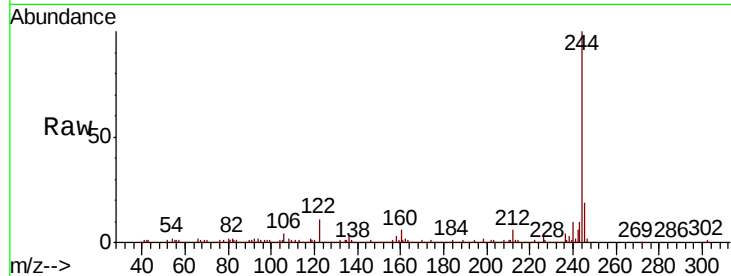
#79
 Terphenyl-d14
 Concen: 13.702 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

Instrument :
 BNA_F
 ClientSampled :
 Z-2-3

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	6.4	5.6	8.4	
122	11.1	10.5	15.7	

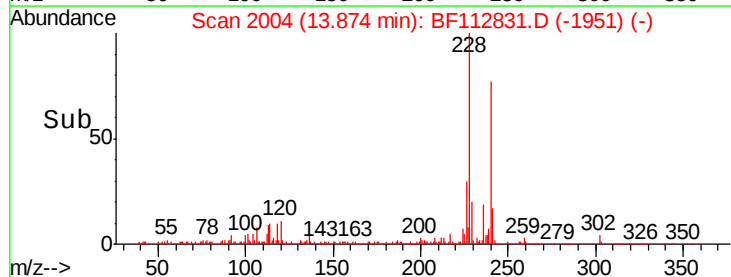
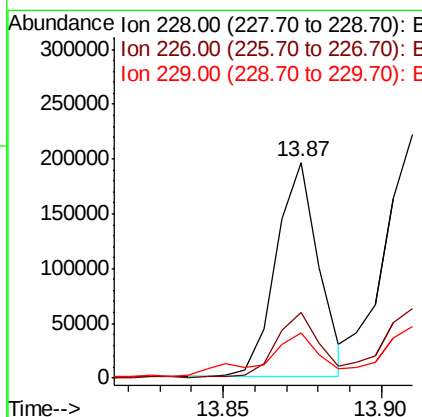
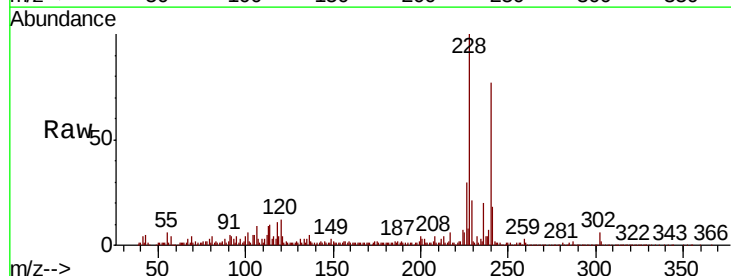
Manual Integrations
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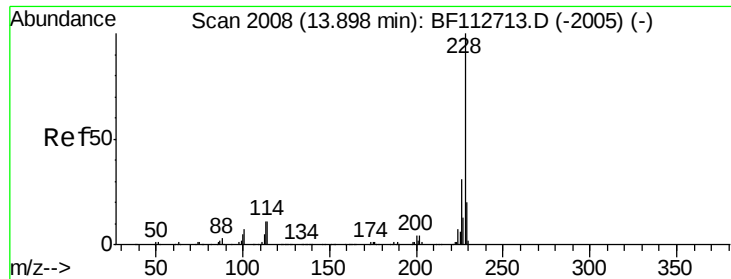
Sohil
 3/6/2019 9:28:21 AM



#81
 Benzo(a)anthracene
 Concen: 5.903 ng
 RT: 13.87 min Scan# 2004
 Delta R.T. 0.01 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.4	22.2	33.4	
229	20.7	16.0	24.0	





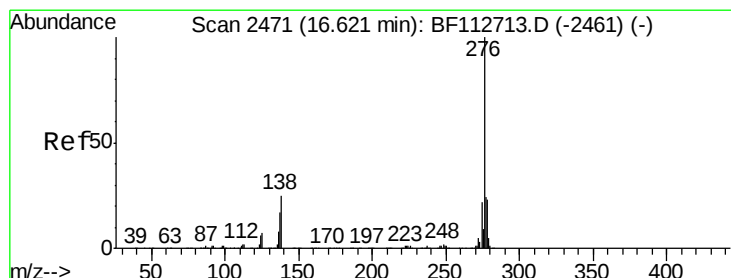
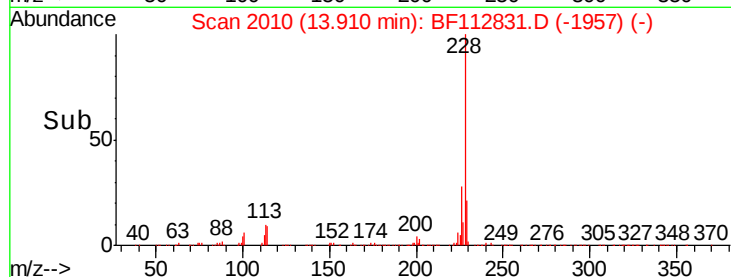
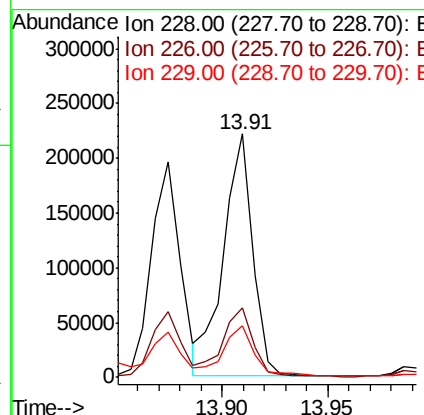
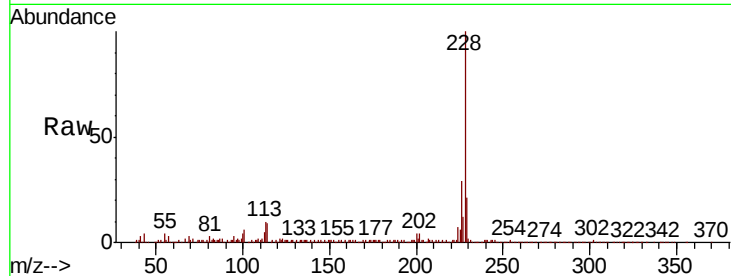
#83
Chrysene
Concen: 6.929 ng
RT: 13.91 min Scan# 2010
Delta R.T. 0.01 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Instrument :
BNA_F
ClientSampleId :
Z-2-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	24.9	37.3
229	21.4	16.3	24.5

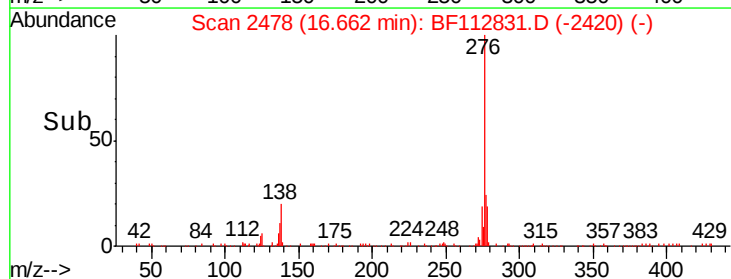
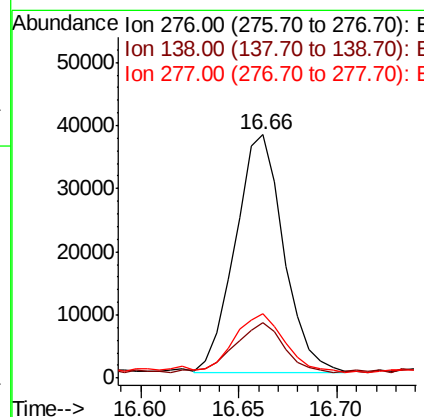
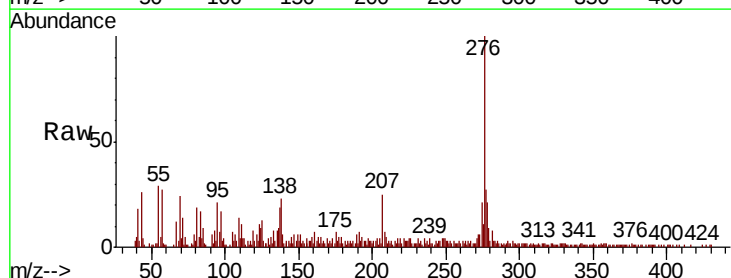
Manual Integrations
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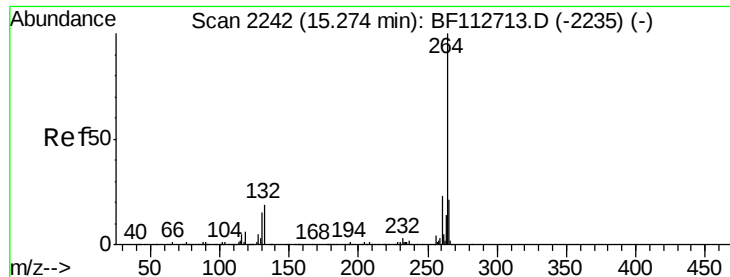
Sohil
3/6/2019 9:28:21 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.483 ng m
RT: 16.66 min Scan# 2478
Delta R.T. 0.04 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.3	23.2	34.8#
277	4.1	19.9	29.9#





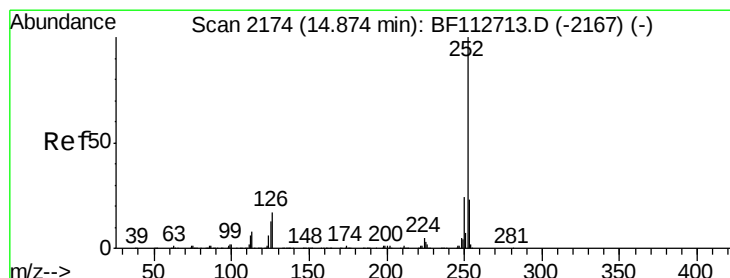
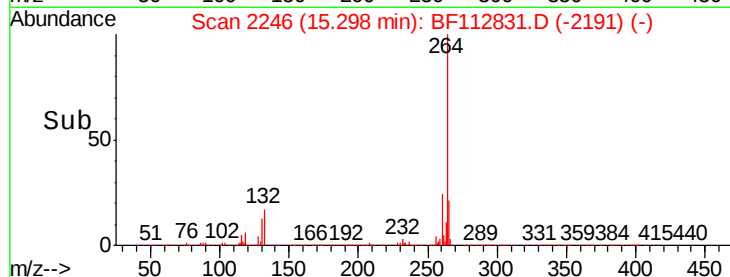
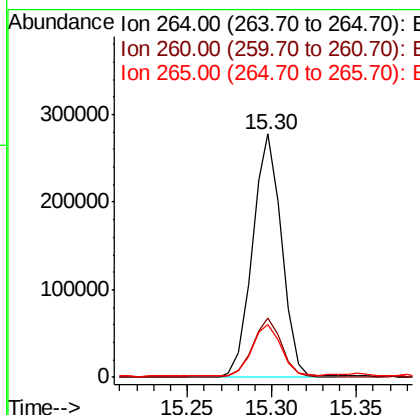
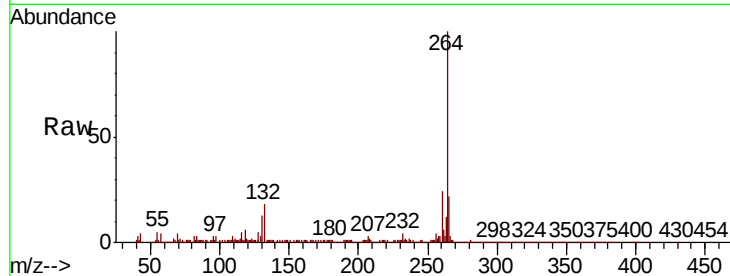
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.02 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Instrument :
BNA_F
ClientSampled :
Z-2-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.7	28.1
265	21.6	17.2	25.8

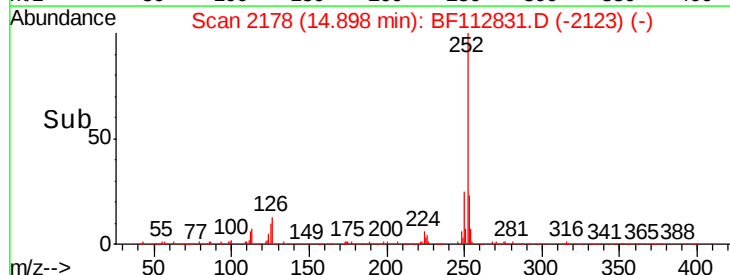
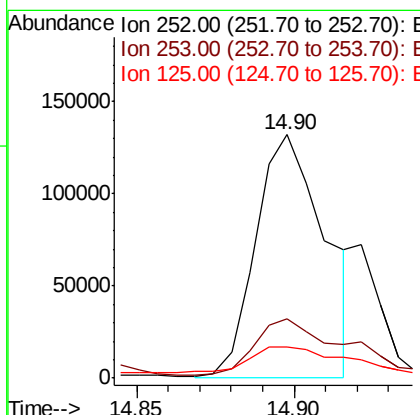
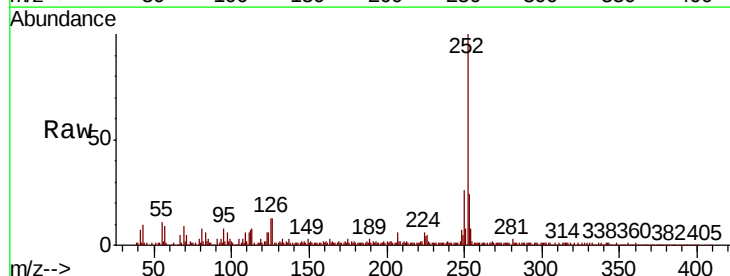
Manual Integrations
APPROVED

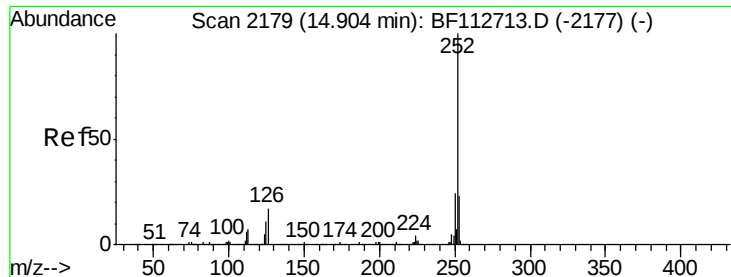
Sohil
3/6/2019 9:28:21 AM



#88
Benzo(b)fluoranthene
Concen: 9.429 ng m
RT: 14.90 min Scan# 2178
Delta R.T. 0.02 min
Lab File: BF112831.D
Acq: 4 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.0	27.0
125	12.6	10.2	15.2





#89

Benzo(k)fluoranthene

Concen: 2.398 ng/mL

RT: 14.92 min Scan# 2182

Delta R.T. 0.02 min

Lab File: BF112831.D

Acq: 4 Mar 2019 18:24

Instrument :

BNA_F

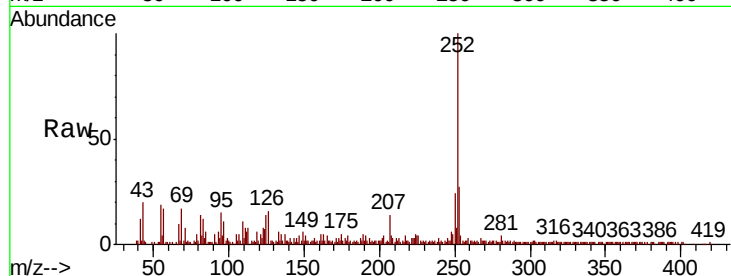
ClientSampled :

Z-2-3

Tot Ion:	252	Resp:	46435
Ion Ratio	Lower	Upper	
252	100		
253	27.1	18.2	27.2
125	13.7	9.8	14.6

Manual Integrations
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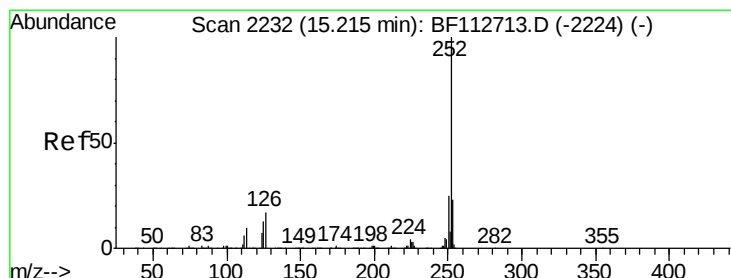
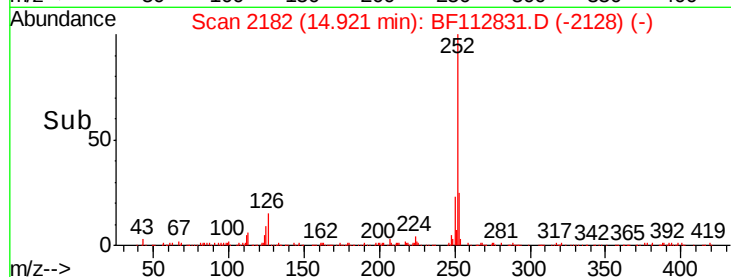
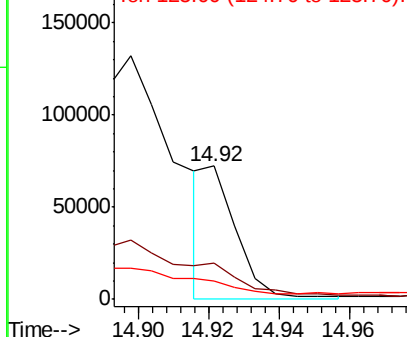


Abundance

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: 5.873 ng/mL

RT: 15.24 min Scan# 2236

Delta R.T. 0.02 min

Lab File: BF112831.D

Acq: 4 Mar 2019 18:24

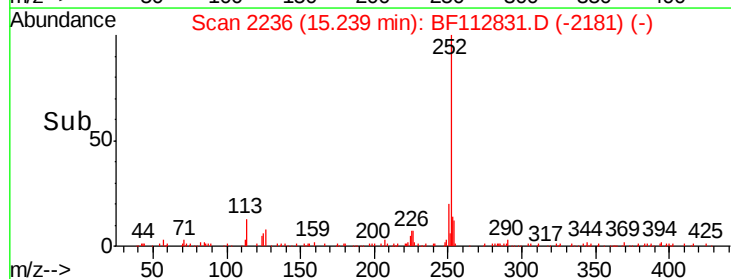
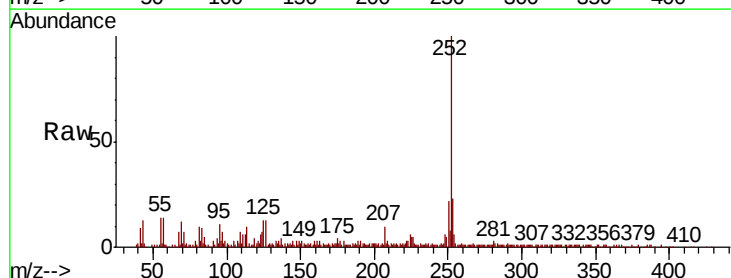
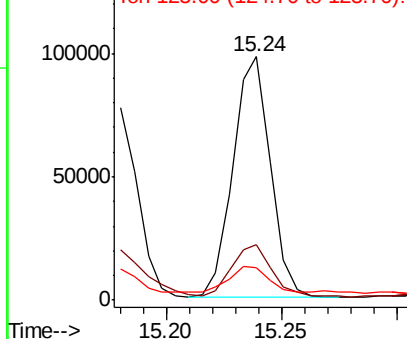
Tgt Ion:	252	Resp:	111028
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.0	27.0
125	13.1	10.7	16.1

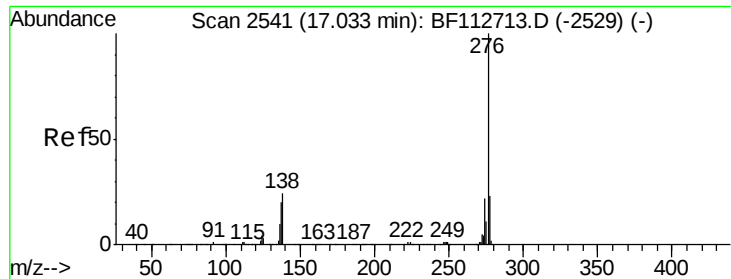
Abundance

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





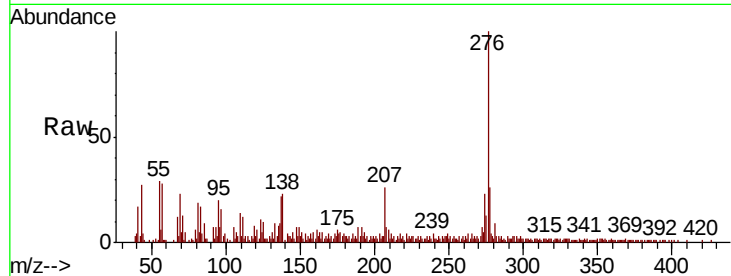
#92
 Benzo(a,h,i)perylene
 Concen: 4.186 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. 0.04 min
 Lab File: BF112831.D
 Acq: 4 Mar 2019 18:24

Instrument :
 BNA_F
 ClientSampleId :
 Z-2-3

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.6	27.8
138	23.1	19.4	29.0

Manual Integrations
 APPROVED

Sohil
 3/6/2019 9:28:21 AM



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

