

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090519\
 Data File : BF116843.D
 Acq On : 5 Sep 2019 17:34
 Operator : HP/JU
 Sample : K4680-11 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T3-1-4-(0-1.5)

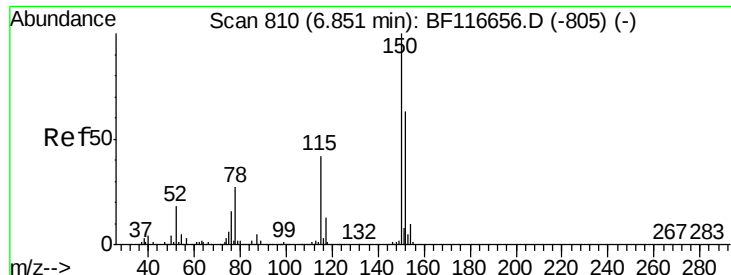
Manual Integrations
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 9/10/2019 9:52:32 AM

Quant Time: Sep 06 04:55:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	94133	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	396253	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	205467	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	309756	20.00	ng	0.00
76) Chrysene-d12	14.00	240	224538	20.00	ng	0.00
87) Perylene-d12	15.46	264	186948	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	185322	31.89	ng	0.00
7) Phenol-d6	6.47	99	256676	33.64	ng	0.00
23) Nitrobenzene-d5	7.40	82	152839	22.02	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	49596	36.11	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	297390	24.42	ng	-0.01
79) Terphenyl-d14	12.94	244	247228	20.37	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	9.59	163	32994	2.326	ng	98
52) Acenaphthene	9.91	154	43507	3.793	ng	95
58) Fluorene	10.43	166	40738	3.307	ng	97
71) Phenanthrene	11.39	178	454342	26.349	ng	100
72) Anthracene	11.44	178	105691	6.089	ng	98
73) Carbazole	11.59	167	51057	3.088	ng	99
75) Fluoranthene	12.58	202	542722	32.027	ng	100
78) Pyrene	12.81	202	459198	23.006	ng	97
80) Butylbenzylphthalate	13.42	149	25075	2.583	ng	97
81) Benzo(a)anthracene	13.99	228	236032	16.609	ng	99
83) Chrysene	14.03	228	186959	12.770	ng	96
84) Bis(2-ethylhexyl)phthalate	13.97	149	50990	4.256	ng	99
86) Indeno(1,2,3-cd)pyrene	16.91	276	65599	5.578	ng	97
88) Benzo(b)fluoranthene	15.04	252	207732m	18.379	ng	
89) Benzo(k)fluoranthene	15.06	252	75785m	7.354	ng	
90) Benzo(a)pyrene	15.40	252	132760	13.501	ng	98
91) Dibenzo(a,h)anthracene	16.92	278	18193	2.114	ng	# 89
92) Benzo(g,h,i)perylene	17.35	276	62297	7.097	ng	# 95

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



#1

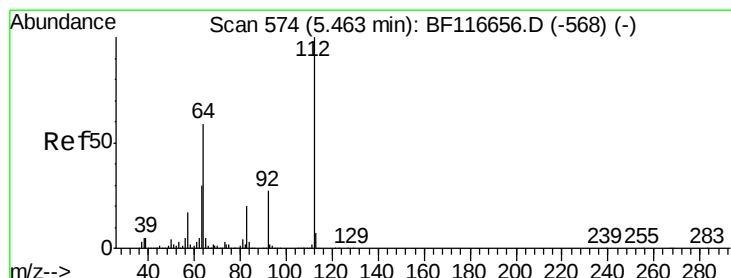
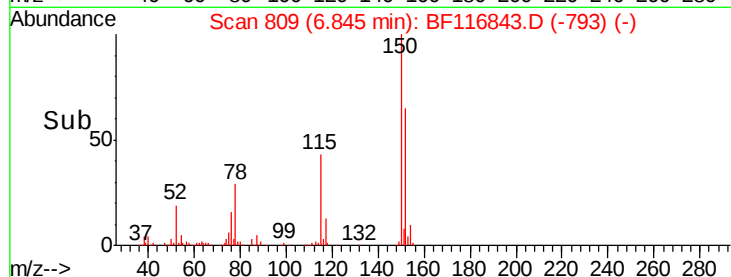
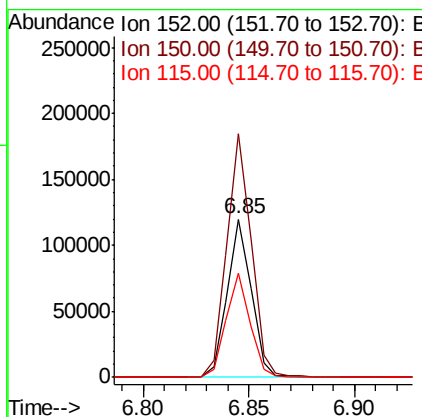
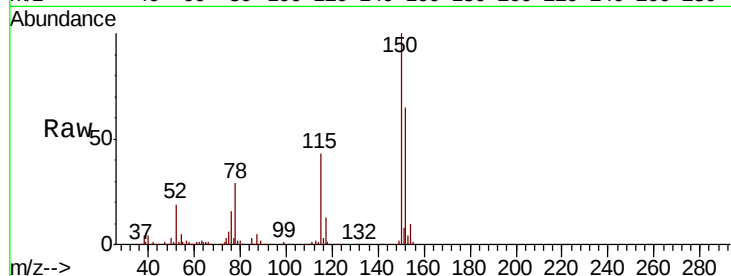
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Instrument :
BNA_F
ClientSampleId :
T3-1-4-(0-1.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.4	186.6
115	66.0	49.9	74.9

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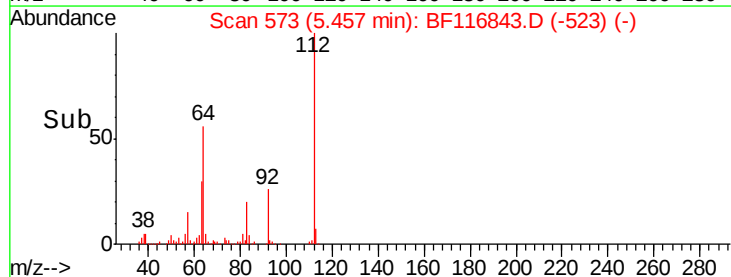
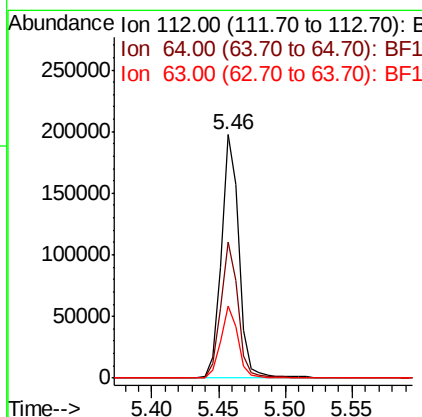
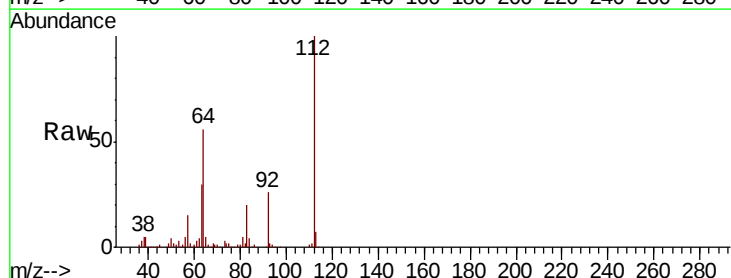
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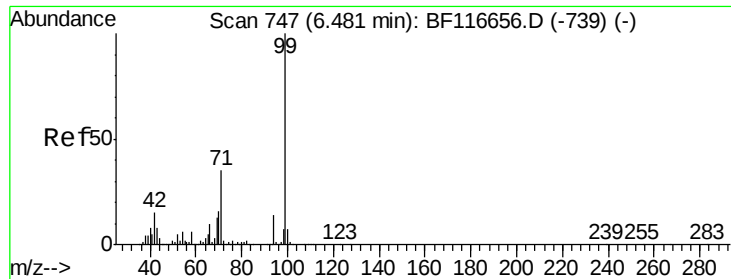


#5

2-Fluorophenol
Concen: 31.894 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	47.1	70.7
63	29.7	24.9	37.3





#7

Phenol-d6

Concen: 33.641 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

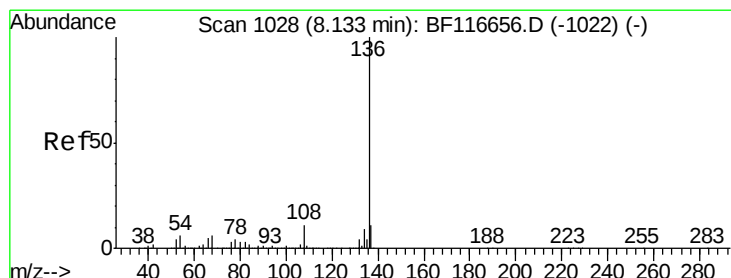
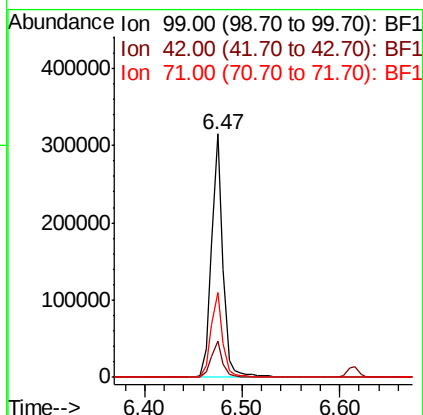
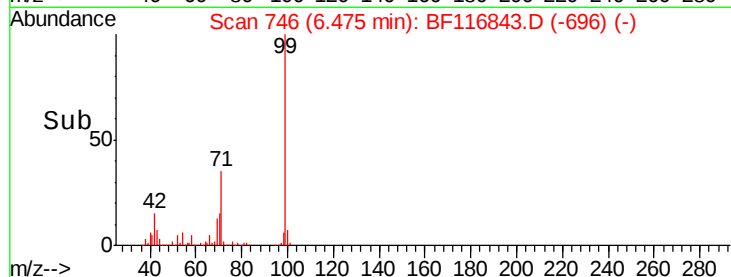
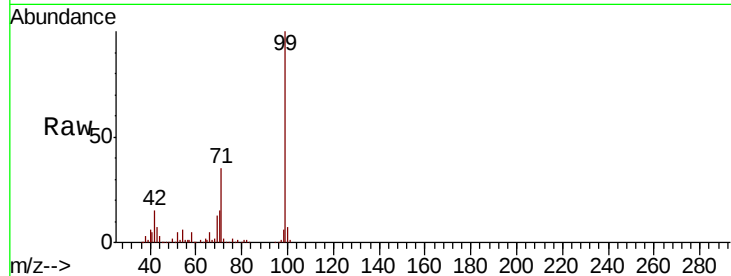
ClientSampleId :

T3-1-4-(0-1.5)

Tot Ion:	99	Resp:	256676
Ion Ratio	Lower	Upper	
99	100		
42	15.0	13.7	20.5
71	35.1	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

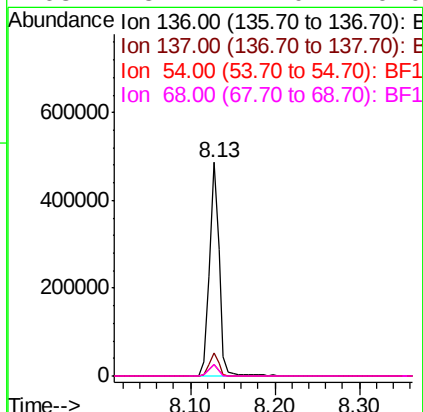
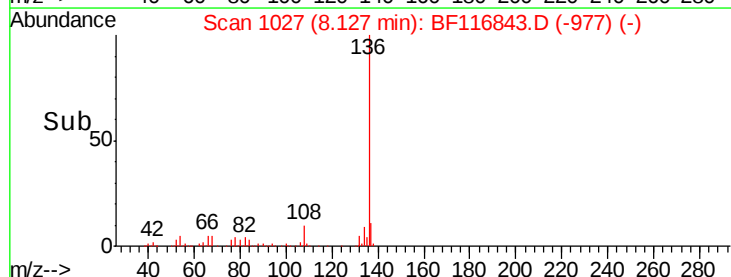
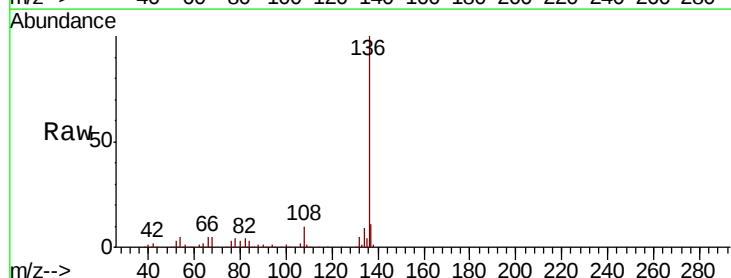
RT: 8.13 min Scan# 1027

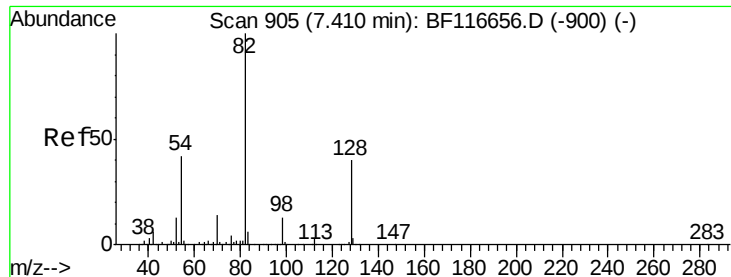
Delta R.T. -0.01 min

Lab File: BF116843.D

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Tgt Ion:	136	Resp:	396253
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	5.3	4.8	7.2
68	5.2	4.0	6.0





#23

Nitrobenzene-d5

Concen: 22.019 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

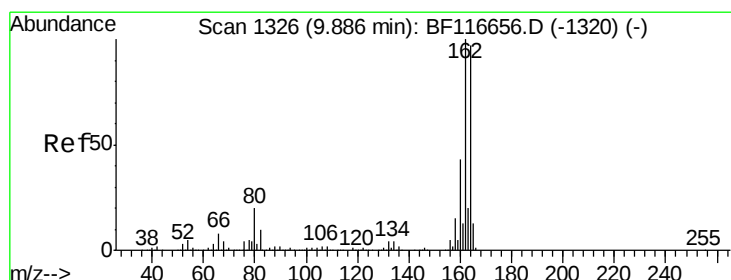
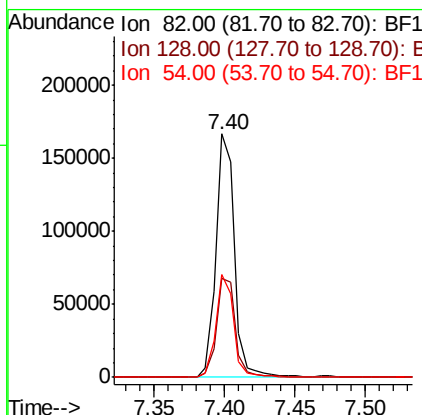
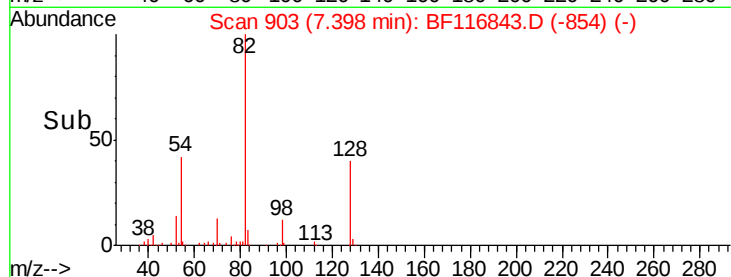
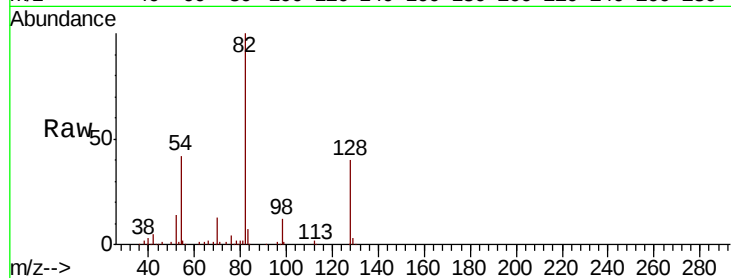
ClientSampleId :

T3-1-4-(0-1.5)

Tot Ion	82	Resp	152839
Ion Ratio	Lower	Upper	
82	100		
128	40.5	32.8	49.2
54	42.4	36.9	55.3

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#39

Acenaphthene-d10

Concen: 20.000 ng

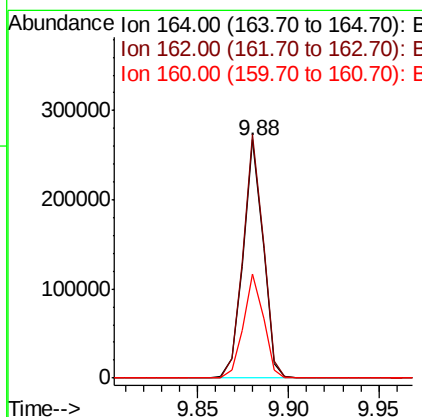
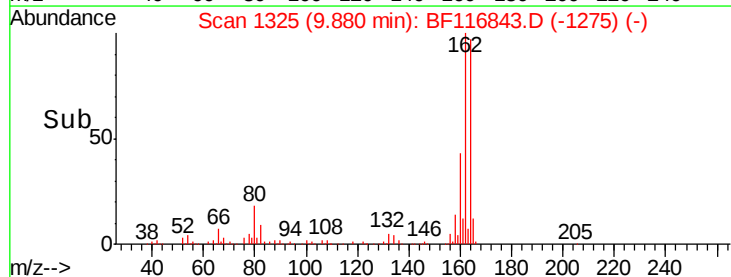
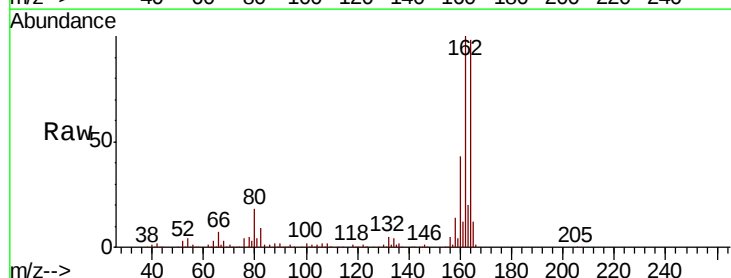
RT: 9.88 min Scan# 1325

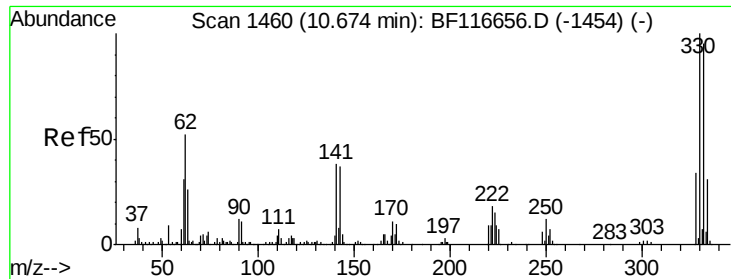
Delta R.T. -0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Tgt Ion	164	Resp	205467
Ion Ratio	Lower	Upper	
164	100		
162	102.3	81.4	122.0
160	43.8	35.4	53.2





#42

2,4,6-Tribromophenol

Concen: 36.107 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

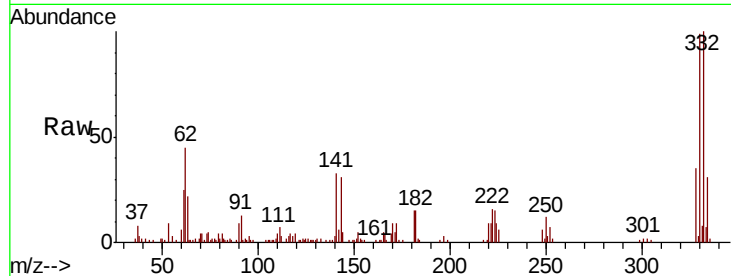
ClientSampleId :

T3-1-4-(0-1.5)

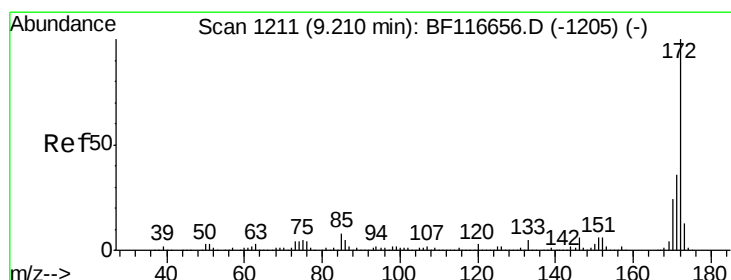
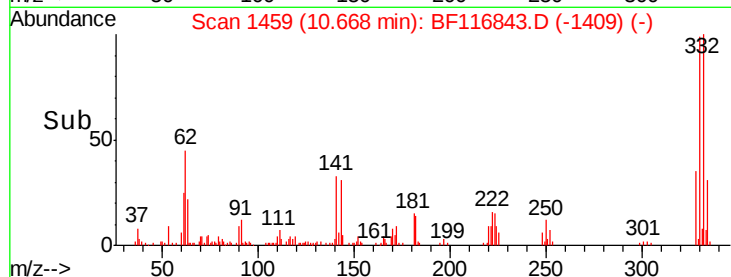
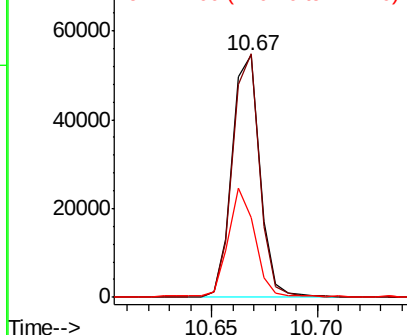
Tot Ion:	330	Resp:	49596
Ion Ratio	Lower	Upper	
330	100		
332	97.4	76.9	115.3
141	44.7	31.4	47.2

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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: 24.416 ng

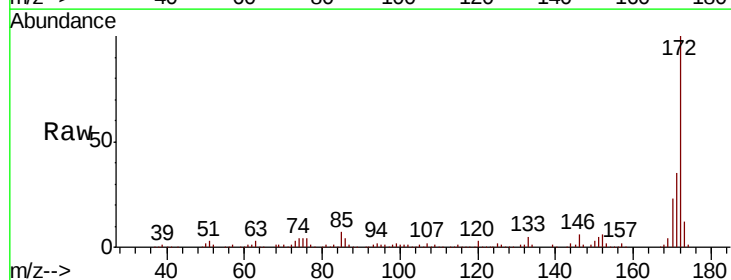
RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

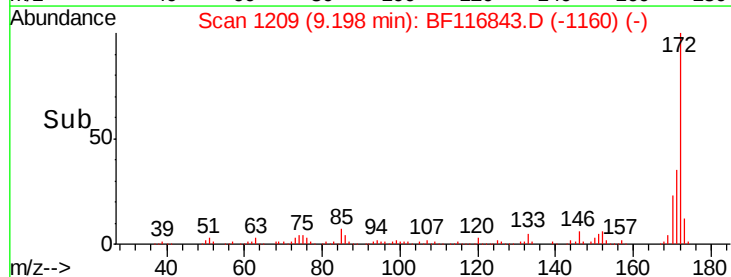
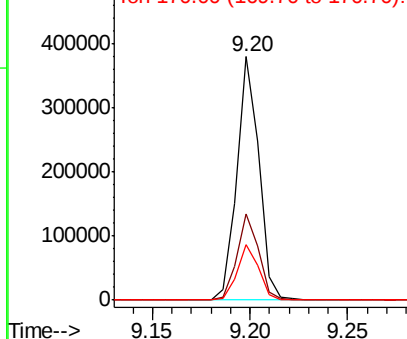
Lab File: BF116843.D

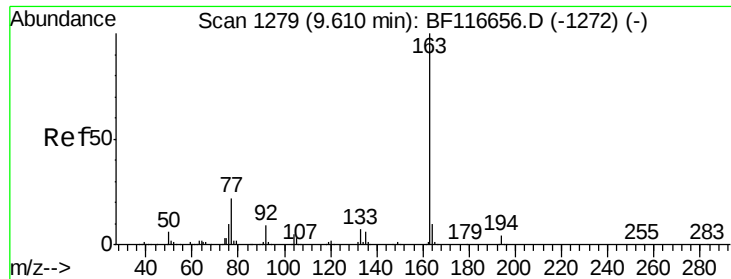
Acq: 5 Sep 2019 17:34

Tgt Ion:	172	Resp:	297390
Ion Ratio	Lower	Upper	
172	100		
171	35.3	27.8	41.6
170	22.8	18.9	28.3



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





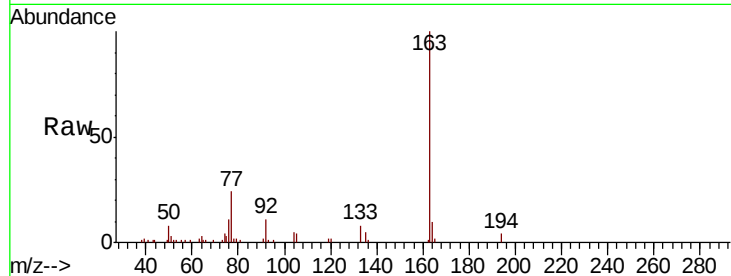
#50
Dimethylphthalate
Concen: 2.326 ng
RT: 9.59 min Scan# 1275
Delta R.T. -0.02 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Instrument :
BNA_F
ClientSampleId :
T3-1-4-(0-1.5)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	32994		
194	3.5		2.8	4.2
164	9.7		8.6	12.8

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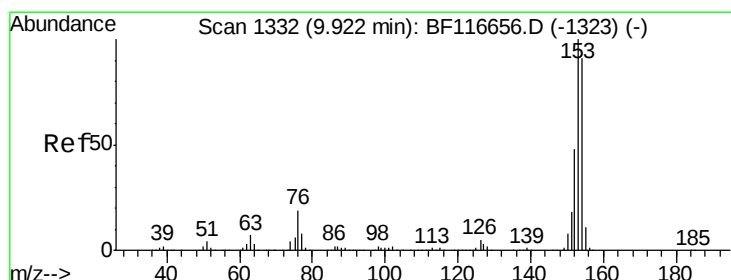
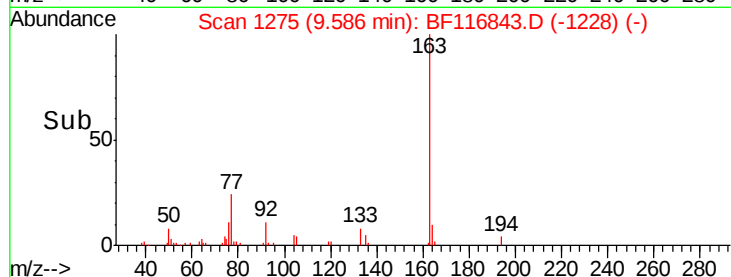
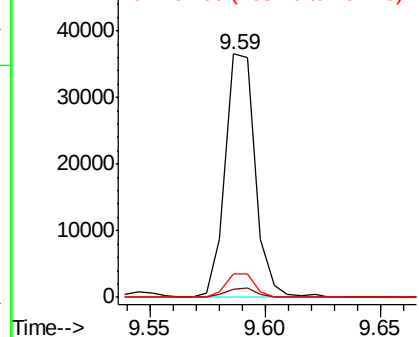


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 3.793 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

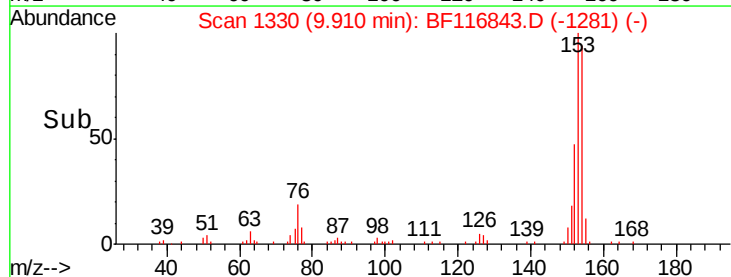
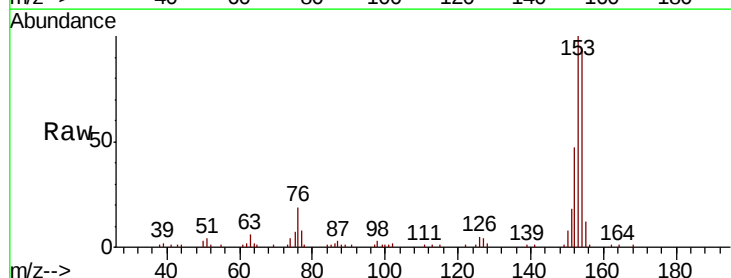
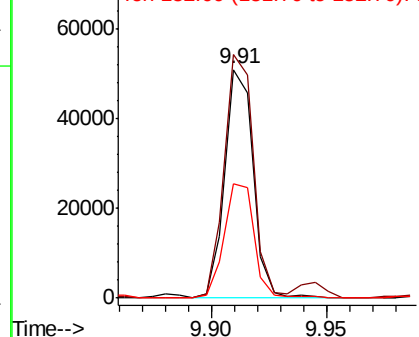
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	43507		
153	106.4		89.5	134.3
152	50.0		41.9	62.9

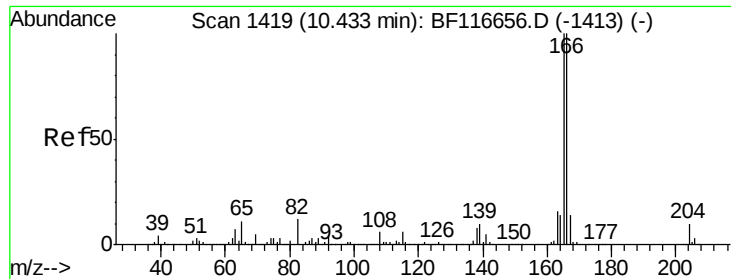
Abundance

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





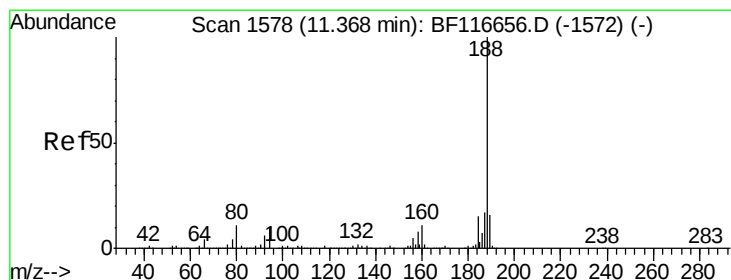
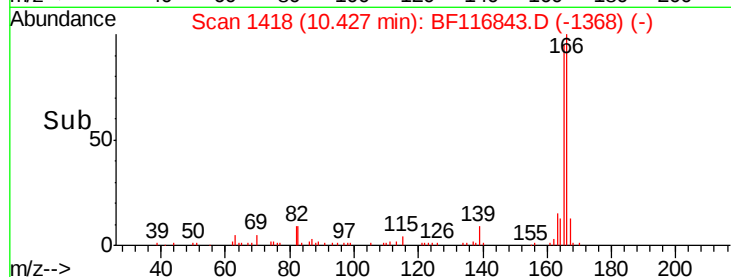
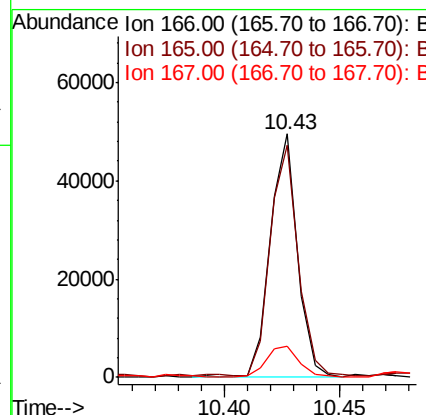
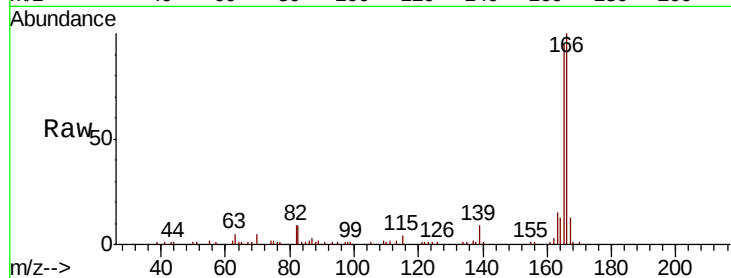
#58
 Fluorene
 Concen: 3.307 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF116843.D
 Acq: 5 Sep 2019 17:34

Instrument :
 BNA_F
 ClientSampleId :
 T3-1-4-(0-1.5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	95.1	78.8	118.2
167	12.7	10.0	15.0

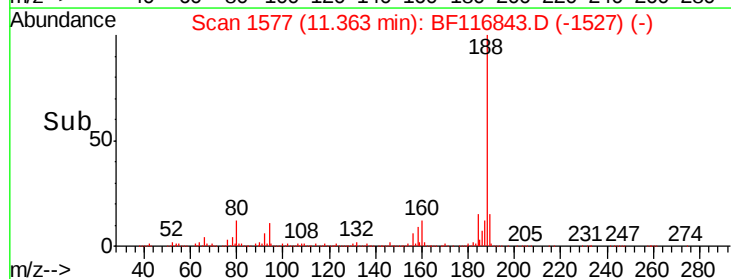
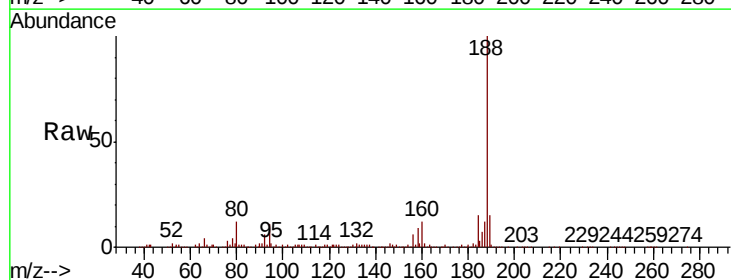
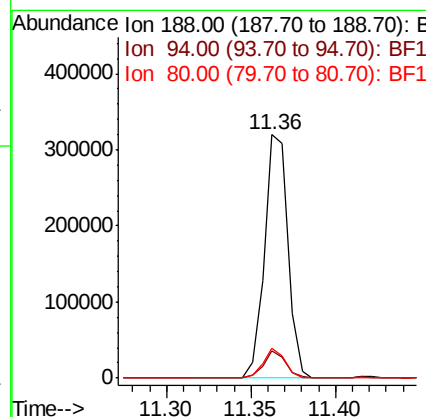
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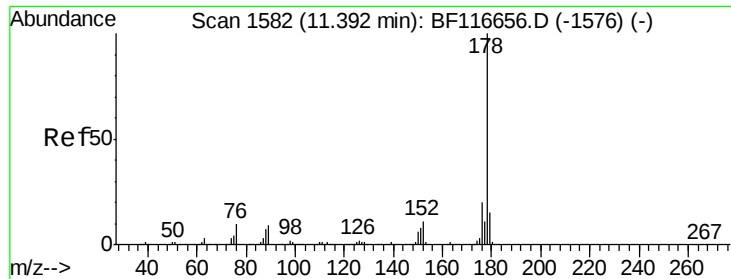
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF116843.D
 Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	7.3	10.9#
80	12.0	8.4	12.6





#71

Phenanthrene

Concen: 26.349 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.00 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

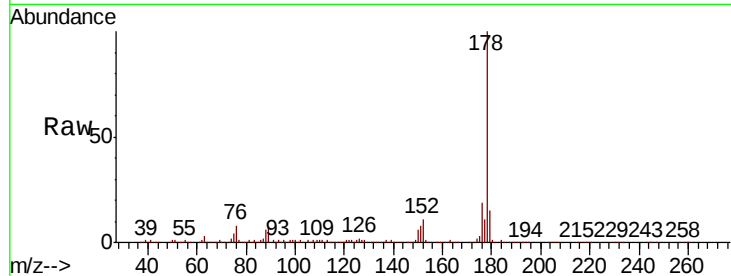
ClientSampleId :

T3-1-4-(0-1.5)

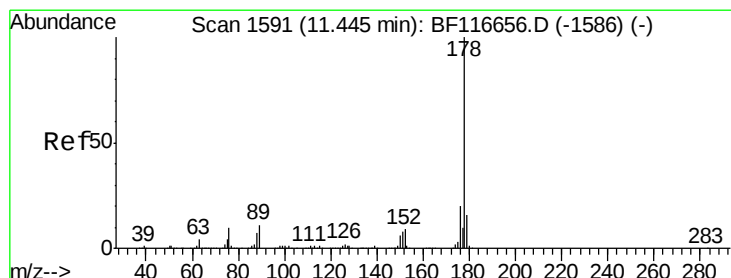
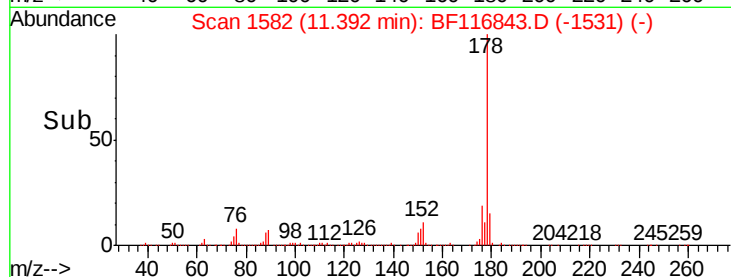
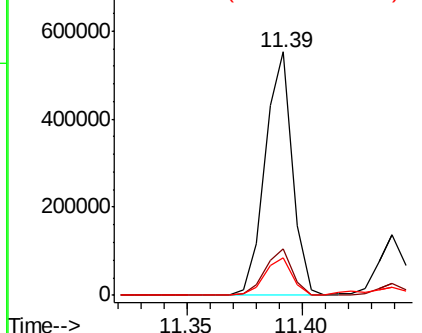
Tot Ion:	178	Resp:	454342
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.0
179	15.2	12.2	18.2

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



#72

Anthracene

Concen: 6.089 ng

RT: 11.44 min Scan# 1590

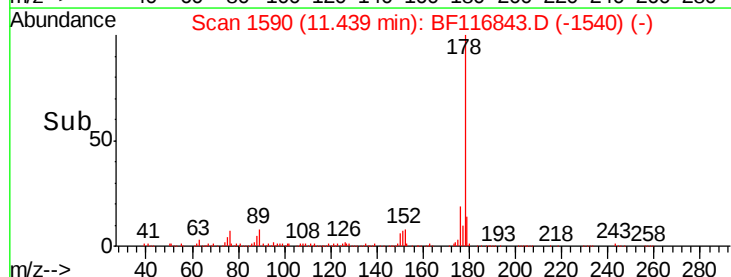
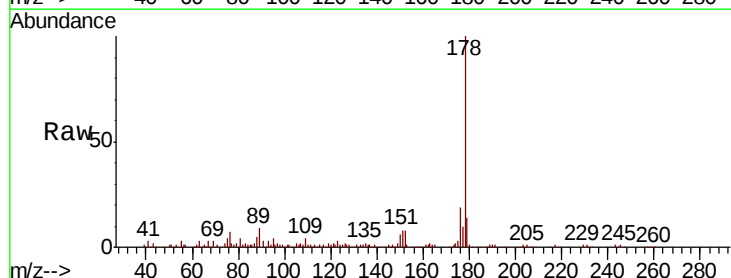
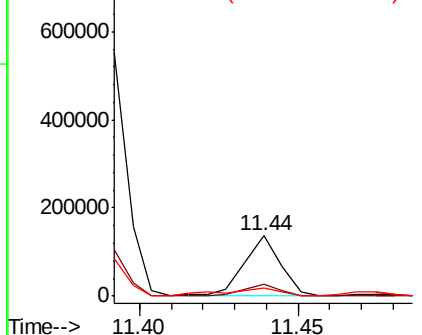
Delta R.T. -0.00 min

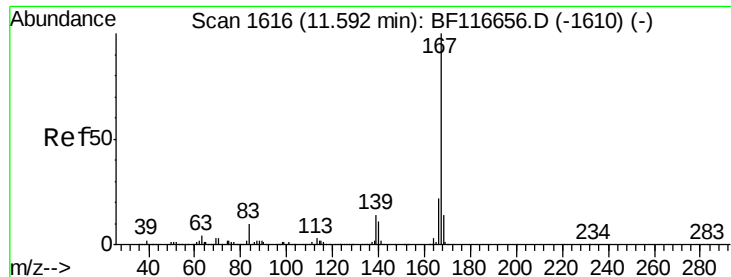
Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Tgt Ion:	178	Resp:	105691
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.4	23.0
179	14.5	12.5	18.7

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





#73

Carbazole

Concen: 3.088 ng

RT: 11.59 min Scan# 1616

Delta R.T. -0.00 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

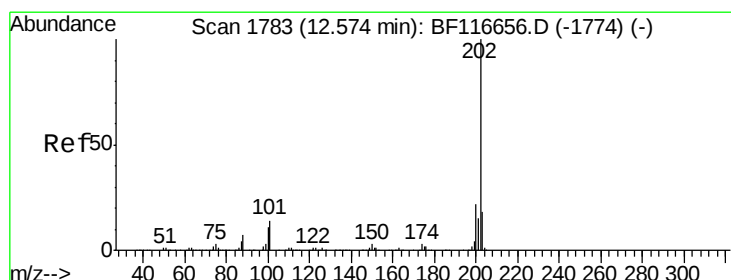
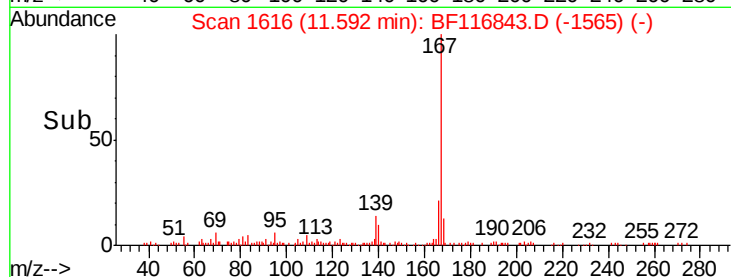
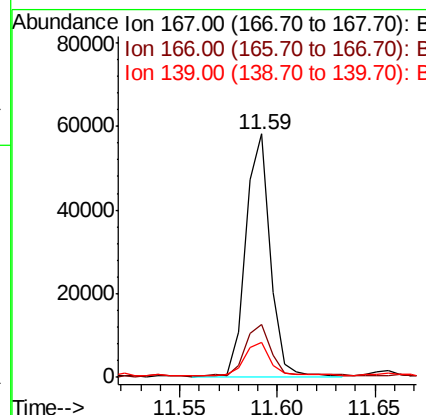
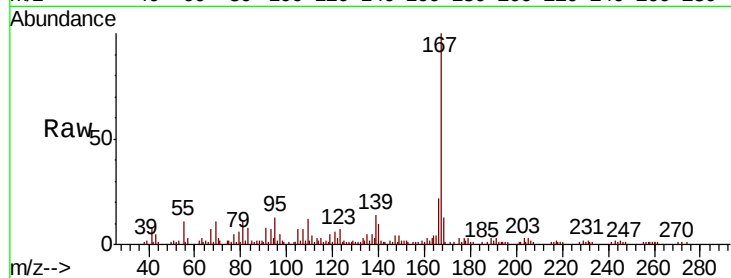
ClientSampleId :

T3-1-4-(0-1.5)

Tot Ion:	167	Resp:	51057
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.8	26.6
139	14.5	11.1	16.7

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#75

Fluoranthene

Concen: 32.027 ng

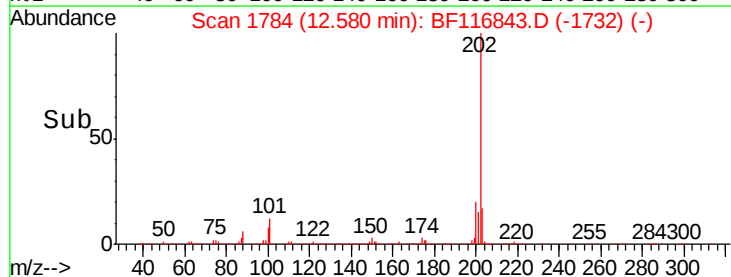
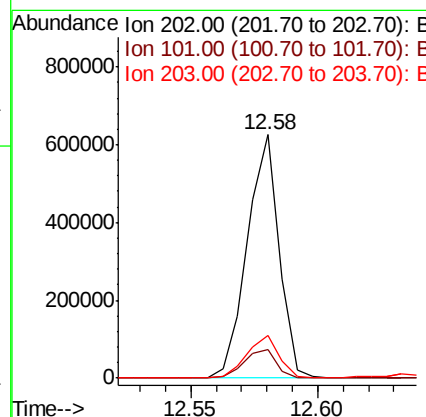
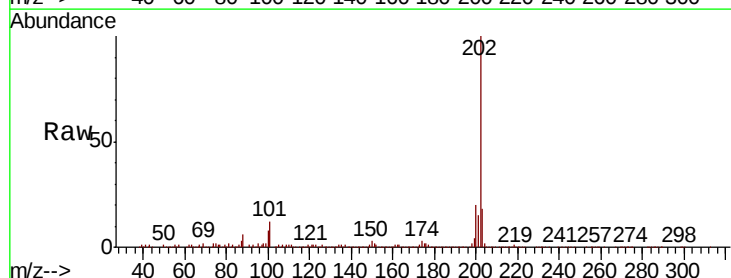
RT: 12.58 min Scan# 1784

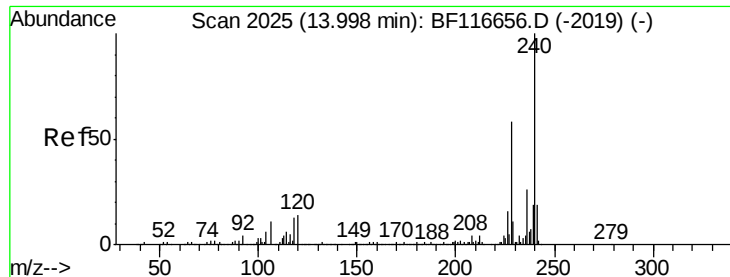
Delta R.T. 0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Tgt Ion:	202	Resp:	542722
Ion Ratio	Lower	Upper	
202	100		
101	11.6	0.0	31.3
203	17.6	0.0	37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

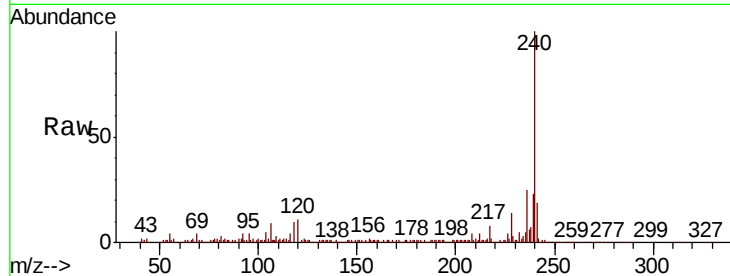
ClientSampleId :

T3-1-4-(0-1.5)

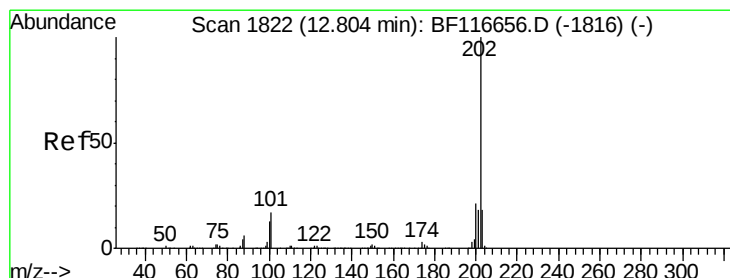
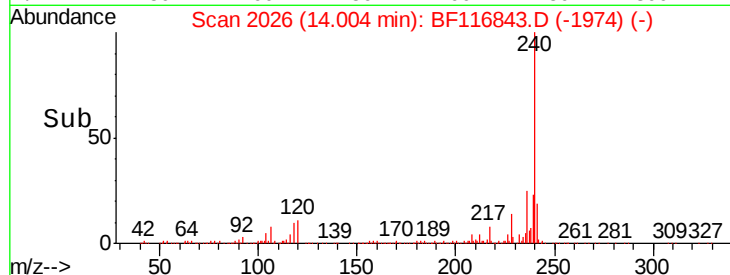
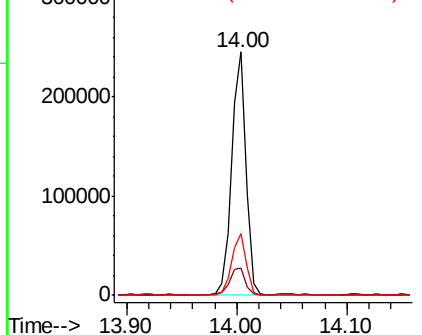
Tot Ion:	240	Resp:	224538
Ion Ratio	Lower	Upper	
240	100		
120	11.0	9.1	13.7
236	25.4	21.1	31.7

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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: 23.006 ng

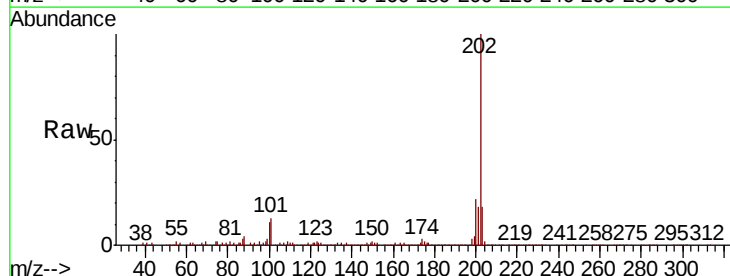
RT: 12.81 min Scan# 1823

Delta R.T. 0.01 min

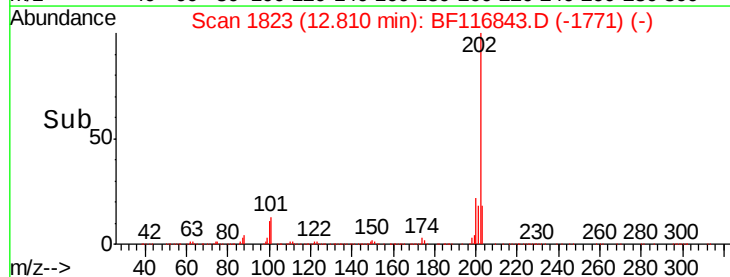
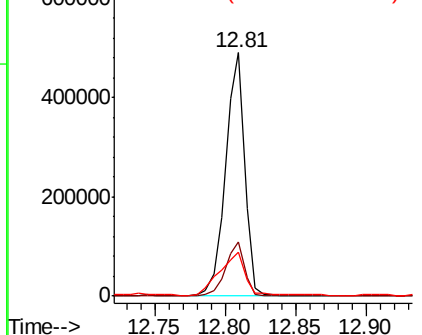
Lab File: BF116843.D

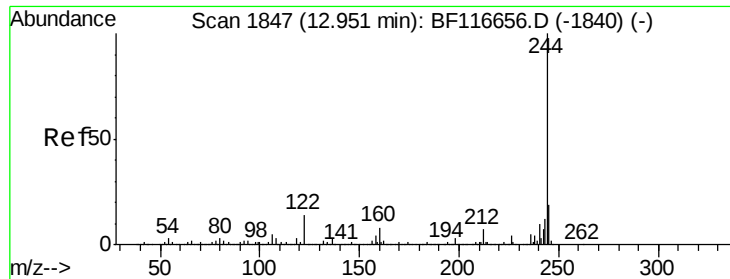
Acq: 5 Sep 2019 17:34

Tgt Ion:	202	Resp:	459198
Ion Ratio	Lower	Upper	
202	100		
200	22.2	16.5	24.7
203	18.3	13.7	20.5



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





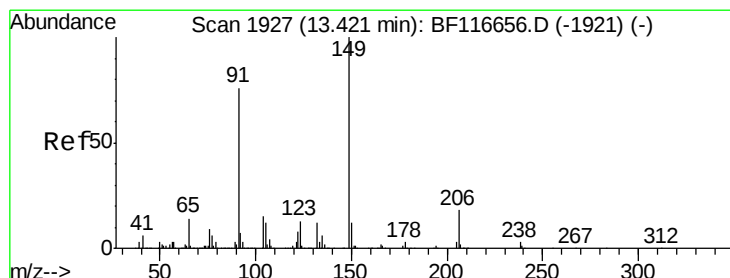
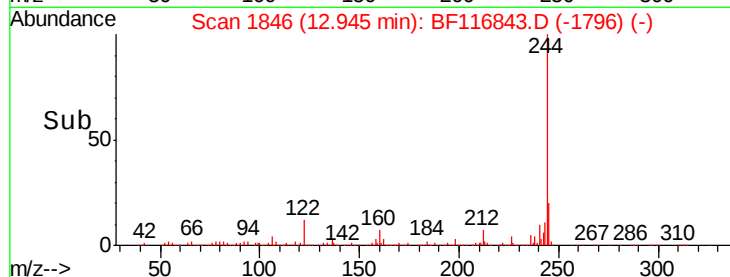
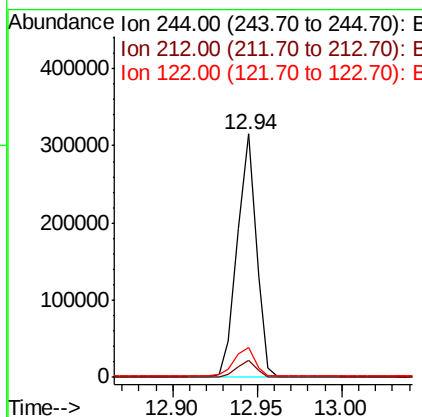
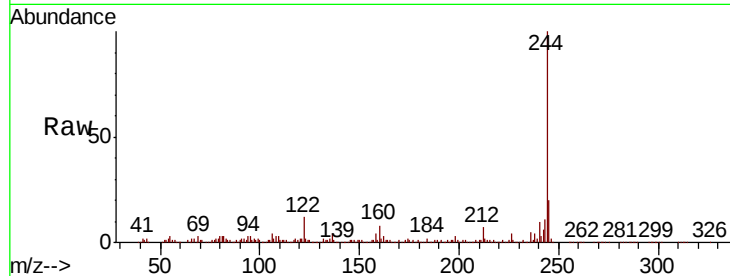
#79
 Terphenyl-d14
 Concen: 20.369 ng
 RT: 12.94 min Scan# 1846
 Delta R.T. -0.01 min
 Lab File: BF116843.D
 Acq: 5 Sep 2019 17:34

Instrument :
 BNA_F
 ClientSampleId :
 T3-1-4-(0-1.5)

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.2	6.1	9.1	
122	12.2	10.2	15.4	

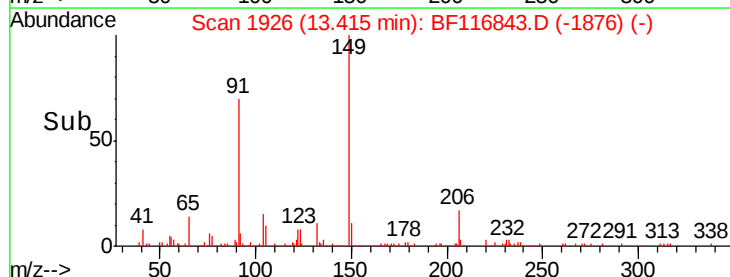
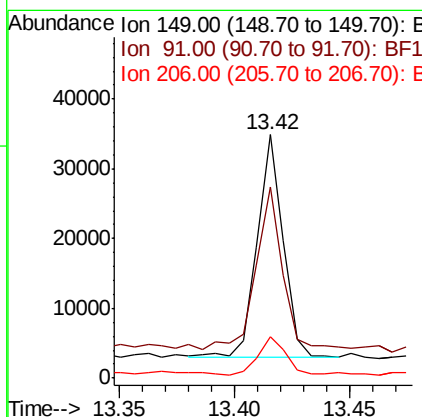
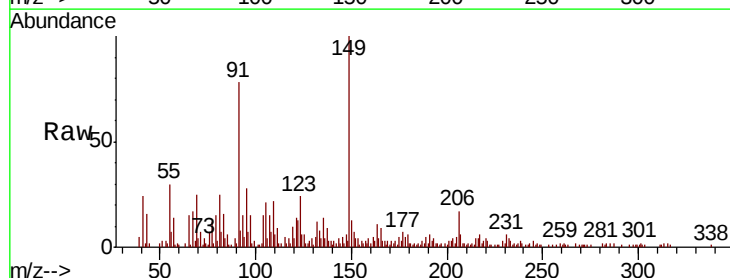
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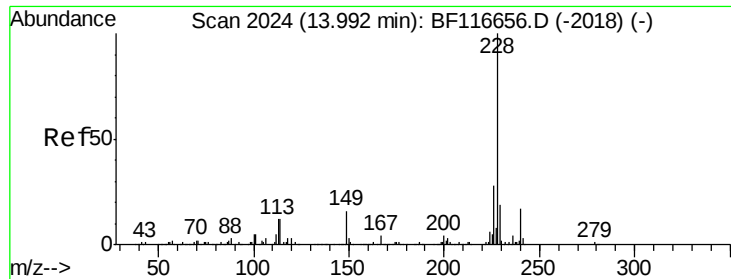
mohammad
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#80
 Butylbenzylphthalate
 Concen: 2.583 ng
 RT: 13.42 min Scan# 1926
 Delta R.T. -0.01 min
 Lab File: BF116843.D
 Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
149	100			
91	78.4	61.0	91.4	
206	16.9	14.8	22.2	





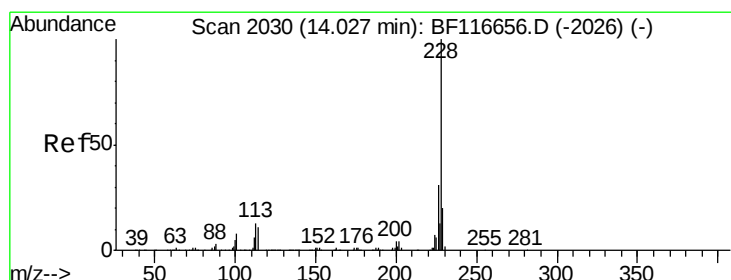
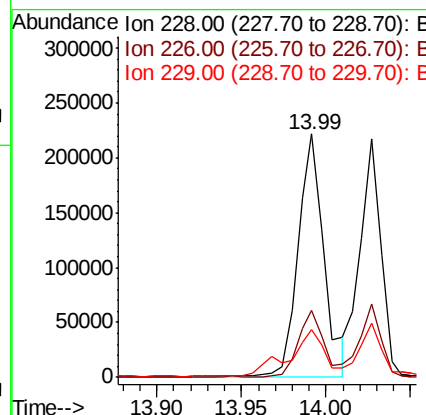
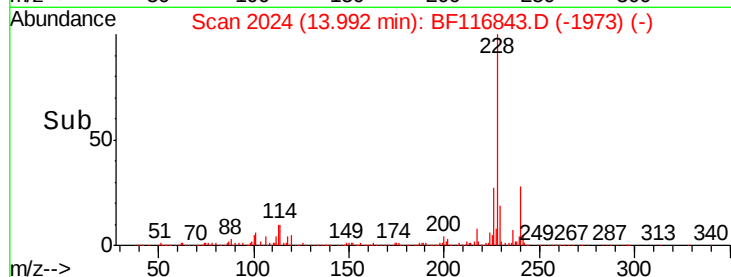
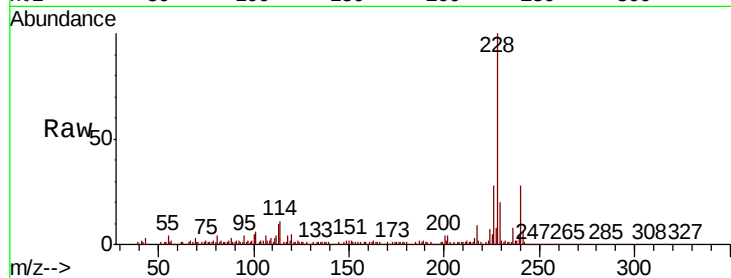
#81
Benzo(a)anthracene
Concen: 16.609 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Instrument :
BNA_F
ClientSampleId :
T3-1-4-(0-1.5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.0	33.0
229	19.5	16.4	24.6

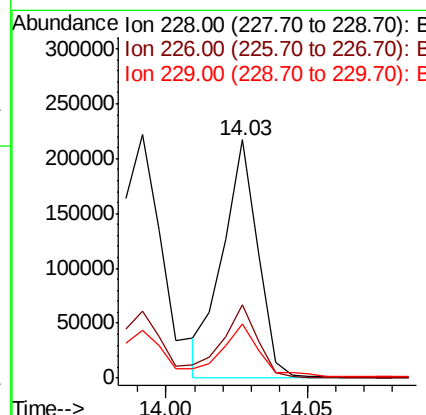
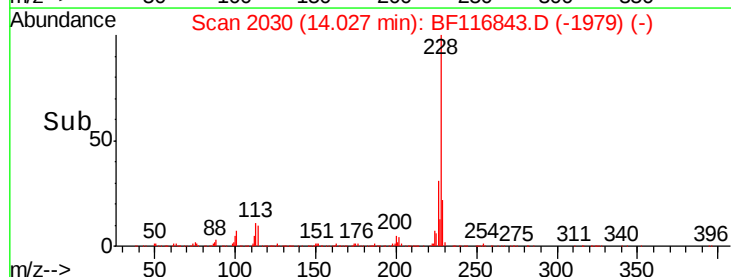
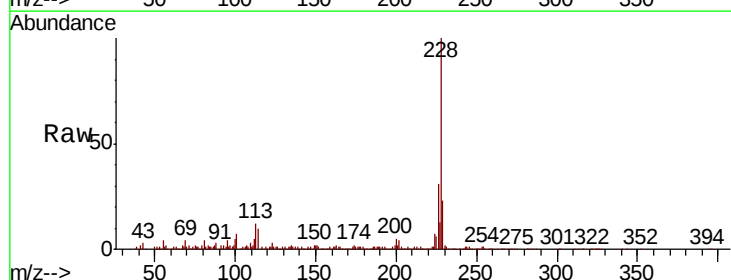
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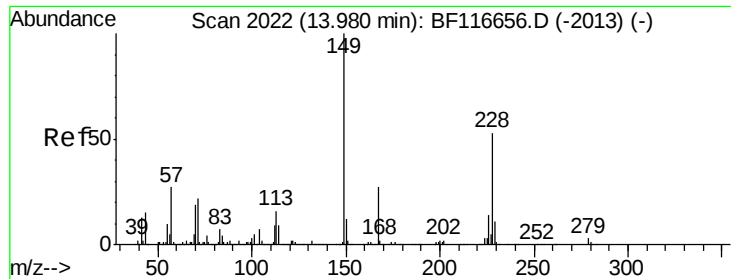
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#83
Chrysene
Concen: 12.770 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.00 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	22.7	15.4	23.0





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.256 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Instrument :

BNA_F

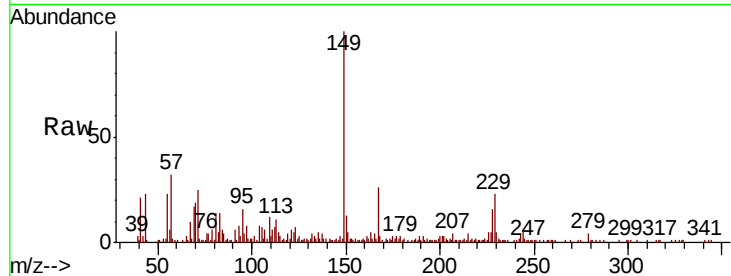
ClientSampleId :

T3-1-4-(0-1.5)

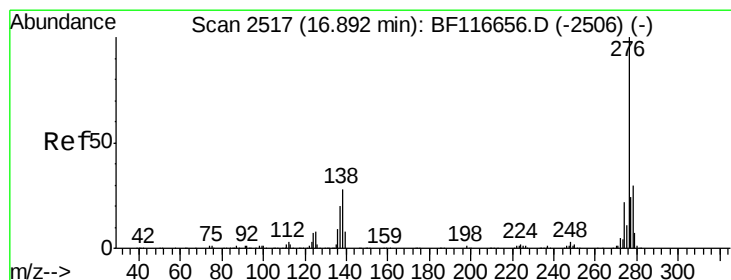
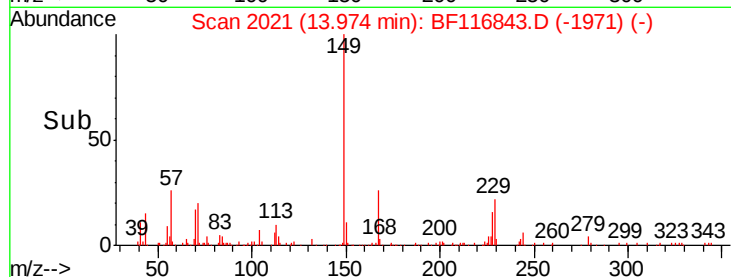
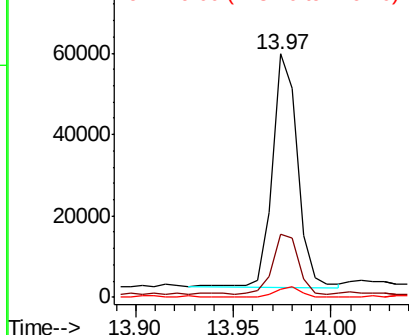
Tot Ion:	149	Resp:	50990
Ion Ratio	Lower	Upper	
149	100		
167	25.8	21.0	31.4
279	3.5	2.8	4.2

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 5.578 ng

RT: 16.91 min Scan# 2520

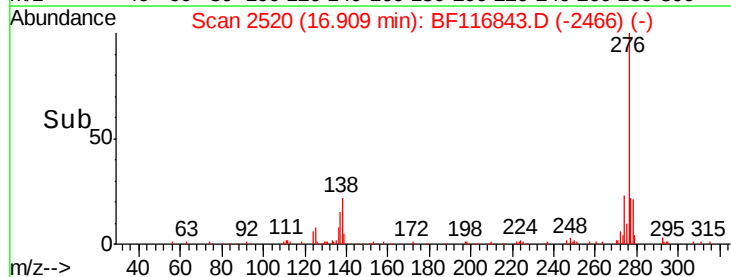
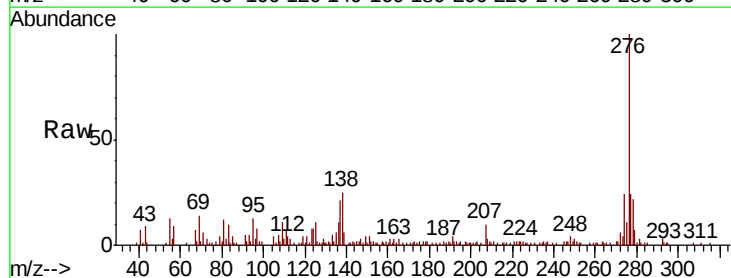
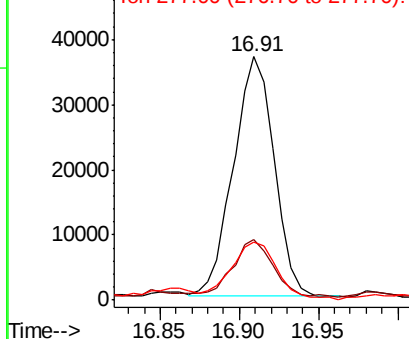
Delta R.T. 0.02 min

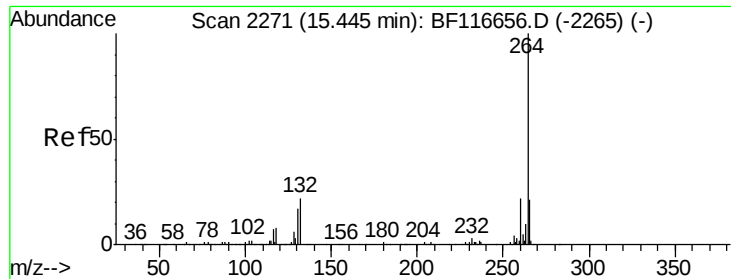
Lab File: BF116843.D

Acq: 5 Sep 2019 17:34

Tgt Ion:	276	Resp:	65599
Ion Ratio	Lower	Upper	
276	100		
138	23.7	19.4	29.2
277	27.8	20.5	30.7

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





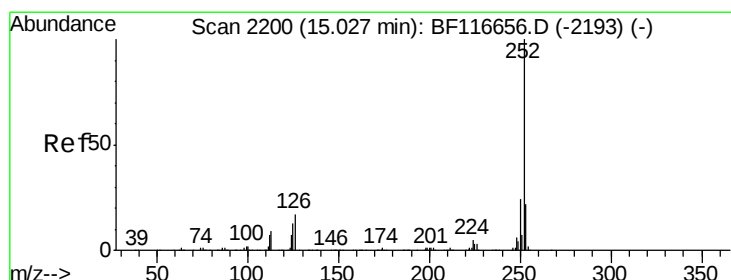
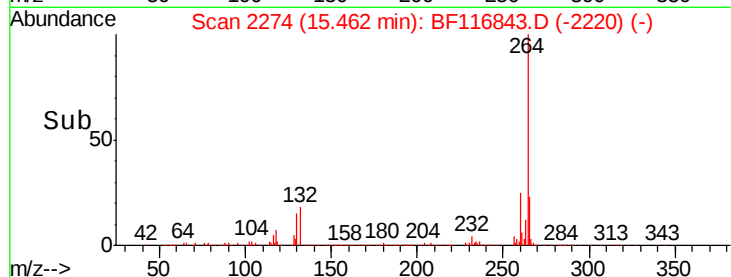
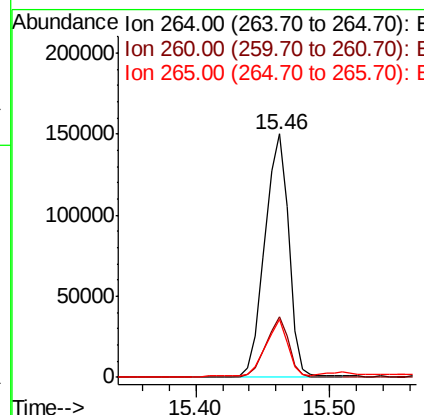
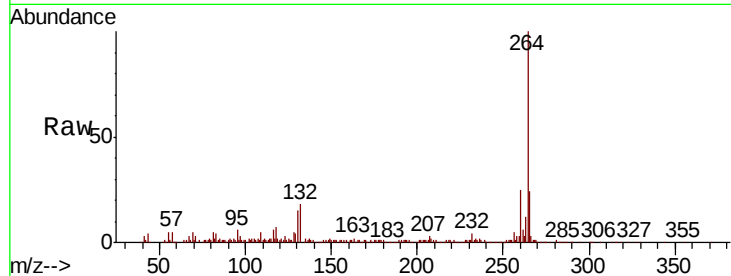
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.02 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Instrument :
BNA_F
ClientSampleId :
T3-1-4-(0-1.5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	18.3	27.5
265	23.7	16.5	24.7

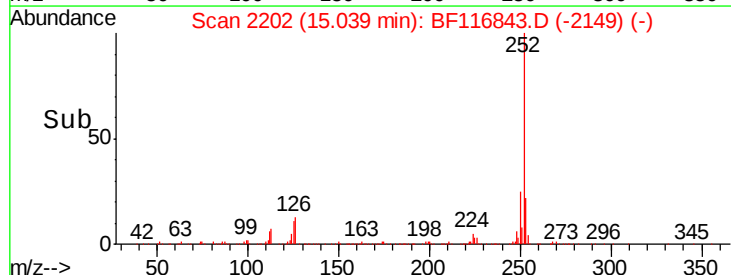
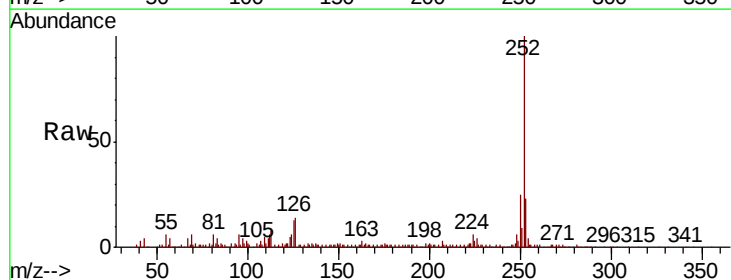
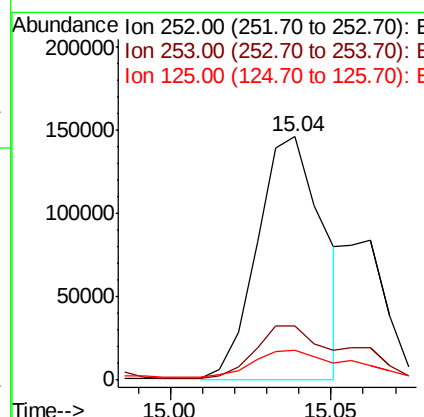
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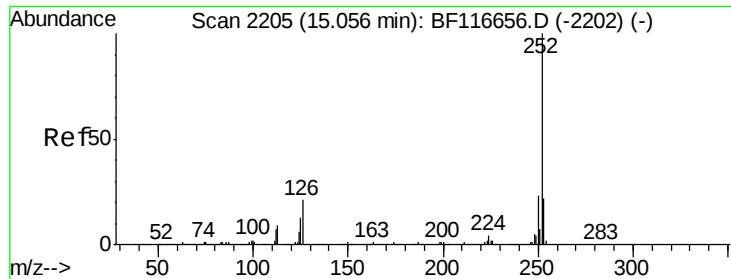
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#88
Benzo(b)fluoranthene
Concen: 18.379 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	12.5	8.2	12.2#





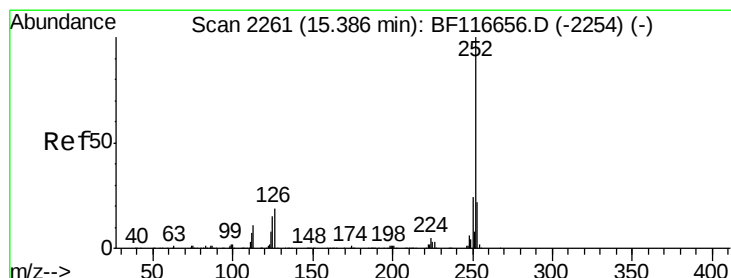
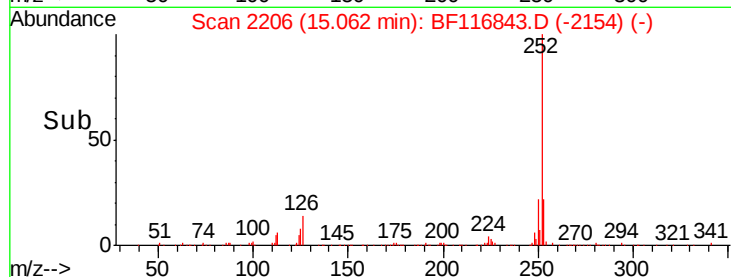
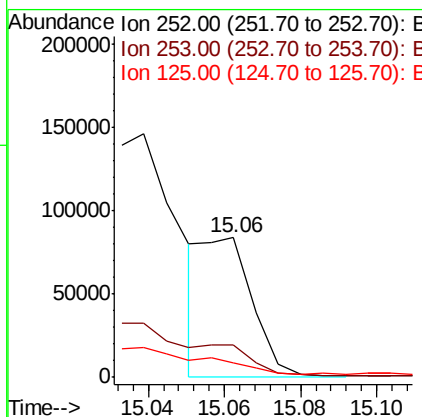
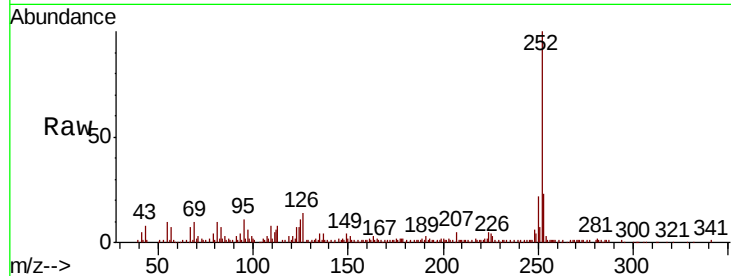
#89
Benzo(k)fluoranthene
Concen: 7.354 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Instrument :
BNA_F
ClientSampleId :
T3-1-4-(0-1.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.7	26.5
125	10.6	8.6	13.0

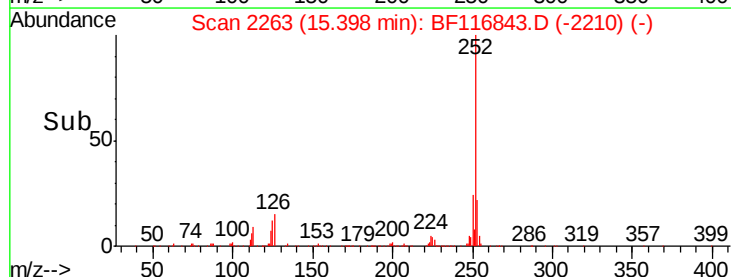
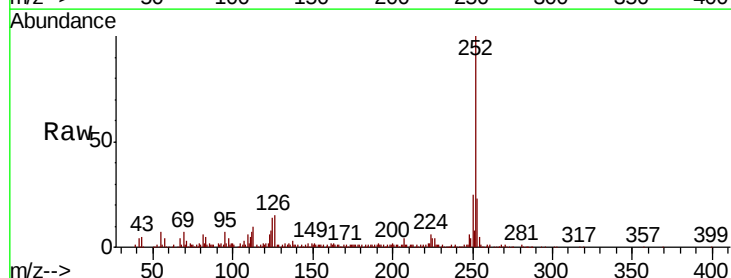
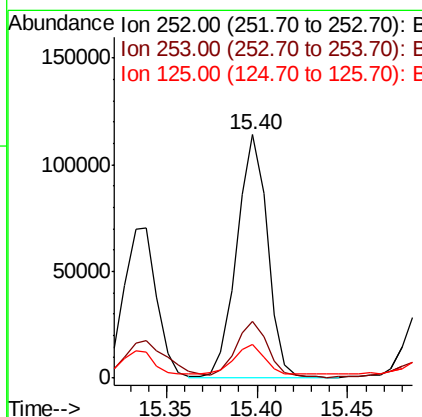
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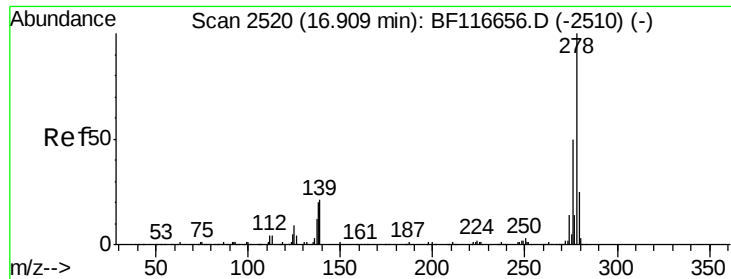
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#90
Benzo(a)pyrene
Concen: 13.501 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	13.6	9.8	14.8





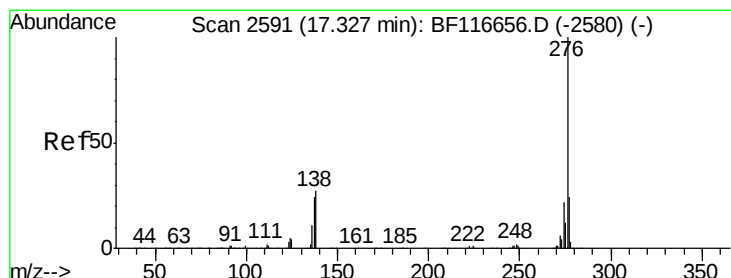
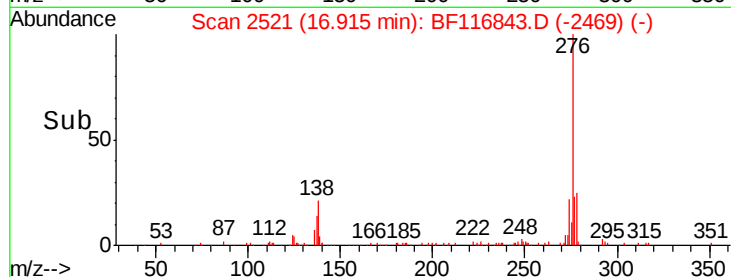
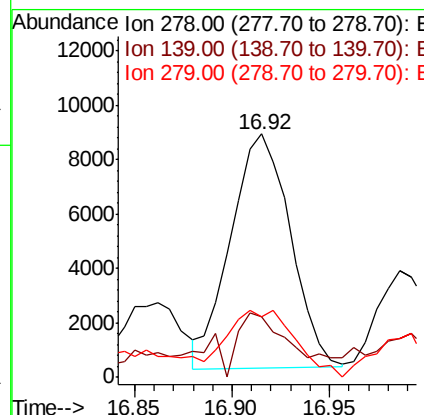
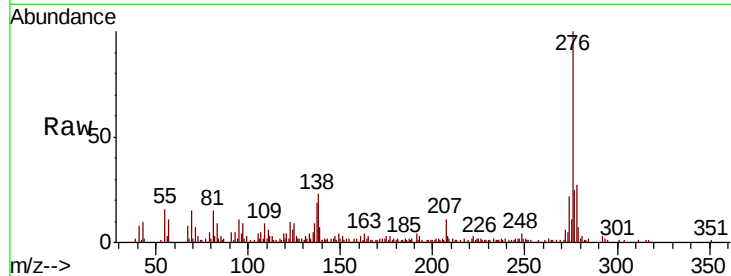
#91
Dibenzo(a,h)anthracene
Concen: 2.114 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.01 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Instrument :
BNA_F
ClientSampleId :
T3-1-4-(0-1.5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.9	12.4	18.6#
279	24.7	18.2	27.4

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#92
Benzo(g,h,i)perylene
Concen: 7.097 ng
RT: 17.35 min Scan# 2595
Delta R.T. 0.02 min
Lab File: BF116843.D
Acq: 5 Sep 2019 17:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.5	27.7
138	24.4	16.2	24.2#

