

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117648.D
 Acq On : 31 Oct 2019 6:14
 Operator : JU
 Sample : K5503-03DL 10X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 175-70-(0-2.5)DL

Manual Integrations
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 10/31/2019 3:11:24 PM

Quant Time: Oct 31 08:24:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	30027	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	135236	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	64102	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	92541	20.00	ng	0.00
76) Chrysene-d12	13.90	240	73613	20.00	ng	0.00
87) Perylene-d12	15.33	264	62864	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	14316	7.09	ng	0.04
7) Phenol-d6	6.42	99	27382	10.10	ng	0.04
23) Nitrobenzene-d5	7.33	82	14549	5.31	ng	0.02
42) 2,4,6-Tribromophenol	10.57	330	4127	7.44	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	28644	6.30	ng	0.00
79) Terphenyl-d14	12.83	244	32057	7.10	ng	0.00

Target Compounds					Qvalue	
31) Naphthalene	8.03	128	23612	3.522	ng	96
52) Acenaphthene	9.79	154	16192	4.491	ng	94
55) Dibenzofuran	9.97	168	22166	4.243	ng	95
58) Fluorene	10.32	166	25620	5.930	ng	89
71) Phenanthrene	11.27	178	260647	48.506	ng	98
72) Anthracene	11.33	178	63745	11.562	ng	98
73) Carbazole	11.50	167	22639	4.493	ng	99
75) Fluoranthene	12.47	202	234457	43.585	ng	97
78) Pyrene	12.70	202	194667	30.787	ng	99
81) Benzo(a)anthracene	13.89	228	91451	18.417	ng	99
83) Chrysene	13.92	228	74977	15.407	ng	99
86) Indeno(1,2,3-cd)pyrene	16.76	276	19882	5.472	ng	97
88) Benzo(b)fluoranthene	14.93	252	66992m	18.046	ng	
89) Benzo(k)fluoranthene	14.94	252	25869m	6.799	ng	
90) Benzo(a)pyrene	15.28	252	44479	13.178	ng	97
91) Dibenzo(a,h)anthracene	16.75	278	6261	2.145	ng	# 83
92) Benzo(a,h,i)perylene	17.20	276	17221	6.237	ng	96

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

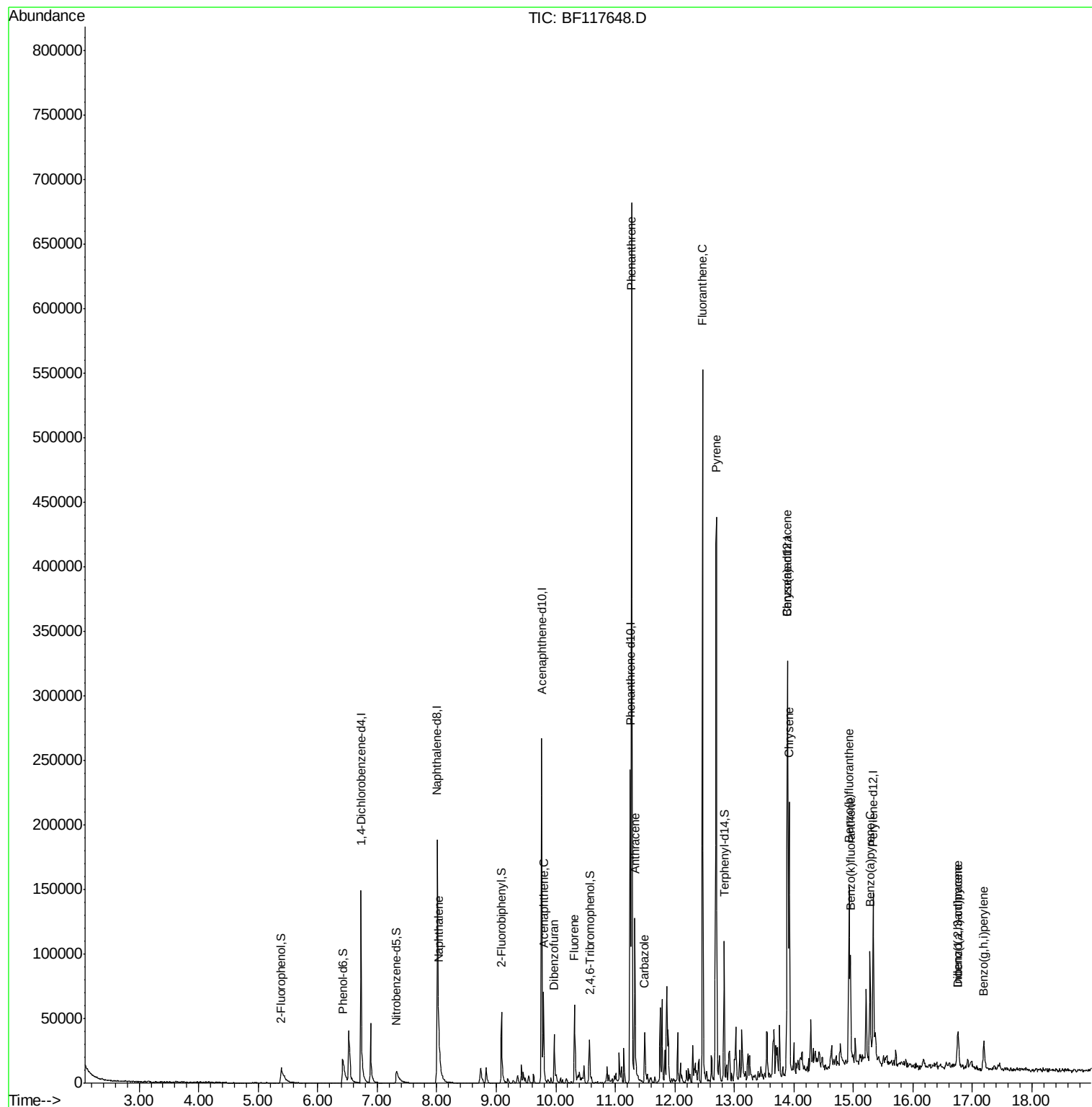
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
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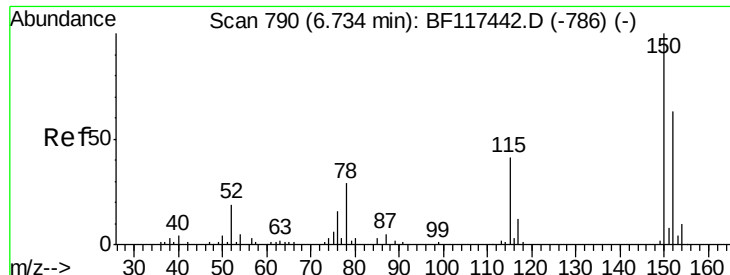
Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
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#1

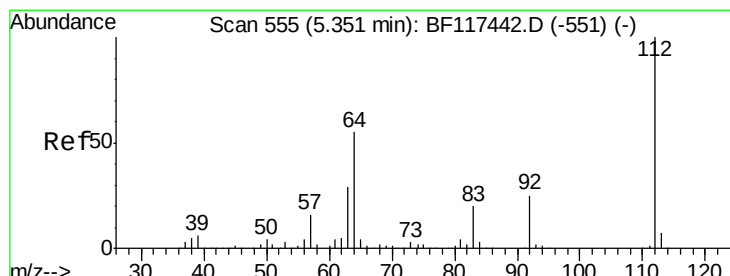
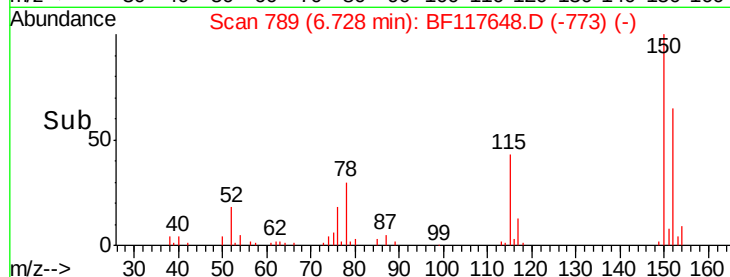
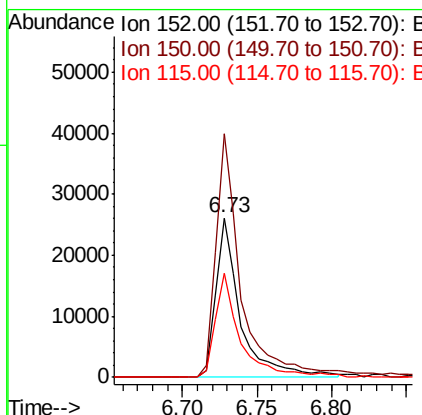
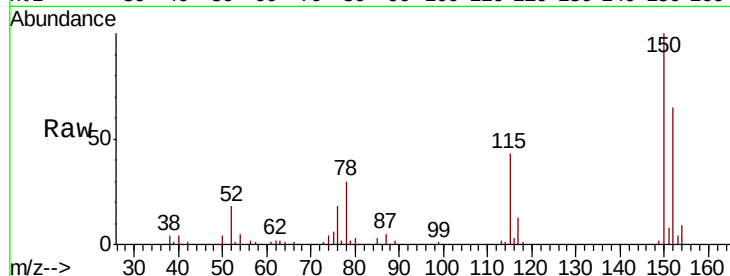
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.9	126.8	190.2
115	65.2	51.6	77.4

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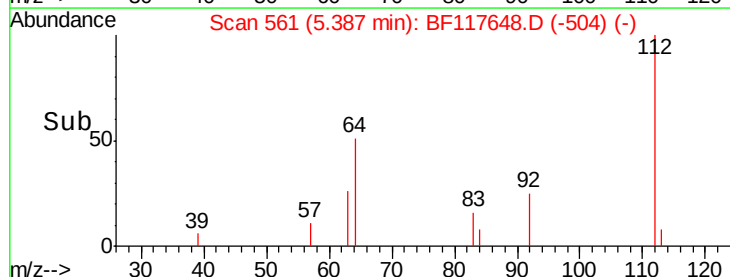
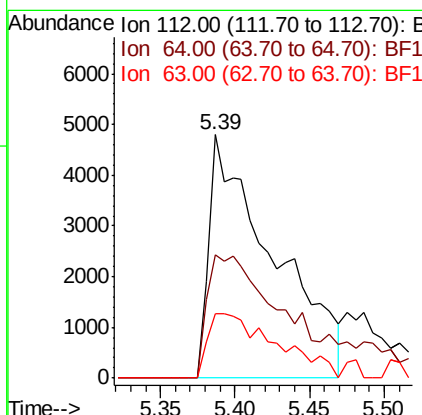
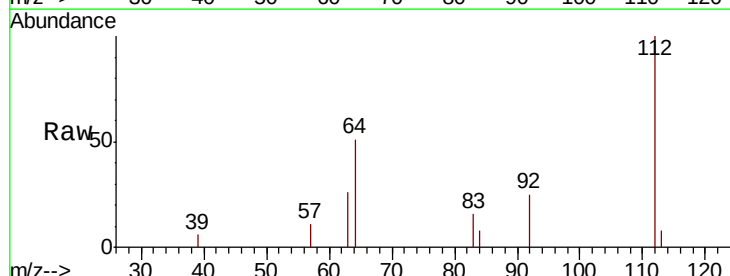
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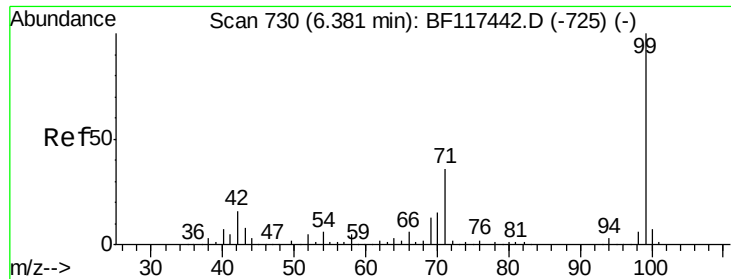


#5

2-Fluorophenol
Concen: 7.093 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.04 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.9	44.1	66.1
63	26.3	23.4	35.2





#7

Phenol-d6

Concen: 10.101 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.04 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Instrument :

BNA_F

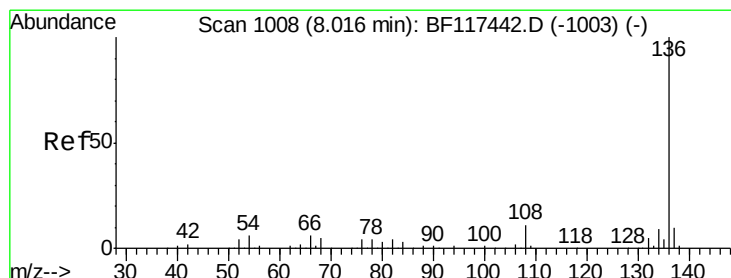
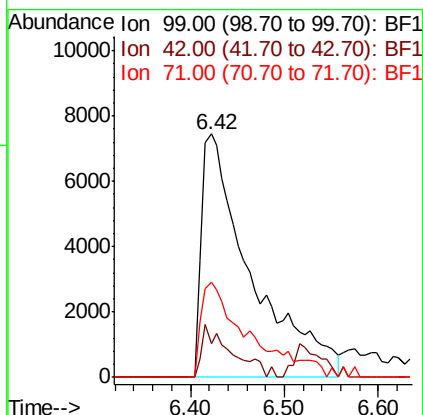
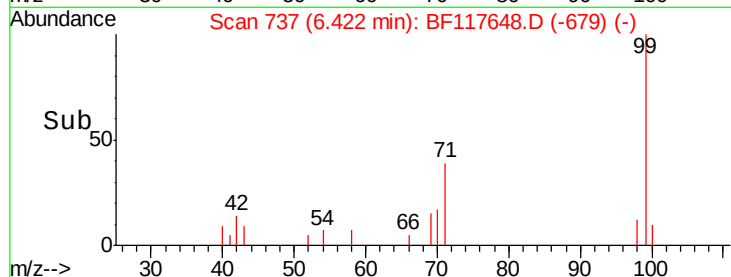
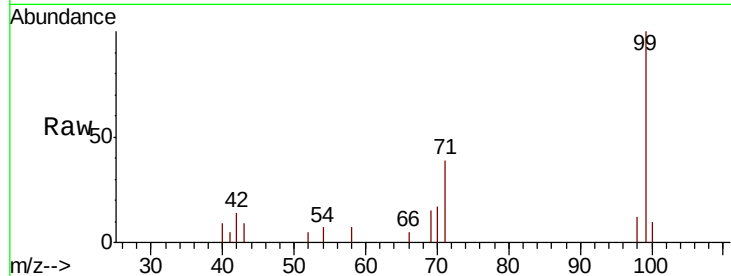
ClientSampleID :

175-70-(0-2.5)DL

Tot Ion:	99	Resp:	27382
Ion Ratio	Lower	Upper	
99	100		
42	14.0	12.8	19.2
71	39.2	28.6	43.0

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#21

Naphthalene-d8

Concen: 20.000 ng

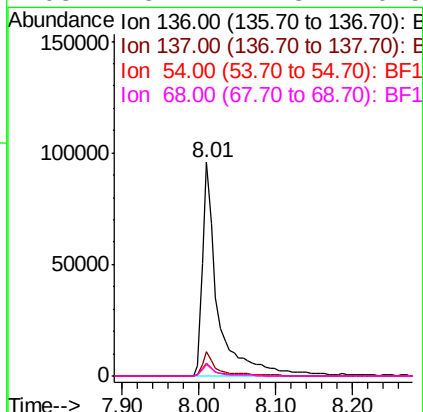
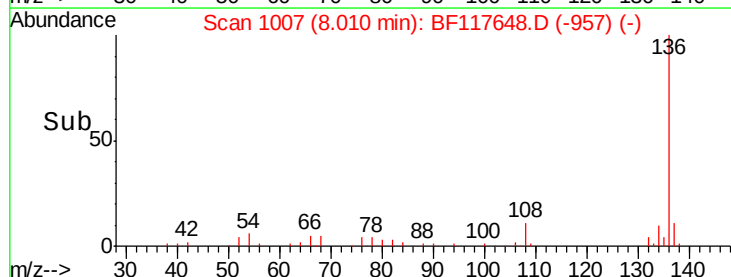
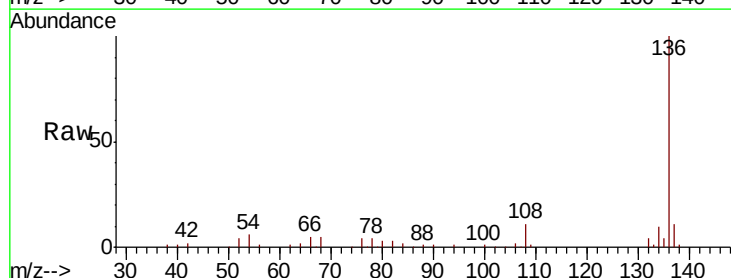
RT: 8.01 min Scan# 1007

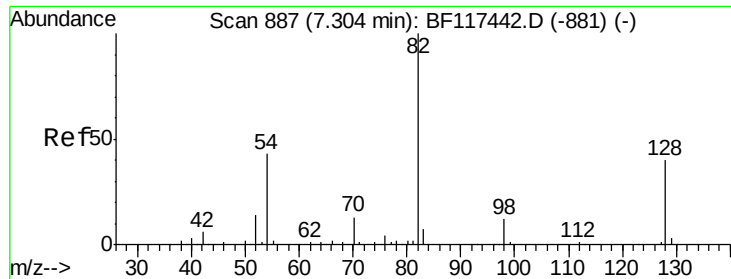
Delta R.T. -0.01 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Tgt Ion:	136	Resp:	135236
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.2	12.4
54	6.1	4.5	6.7
68	5.1	4.3	6.5





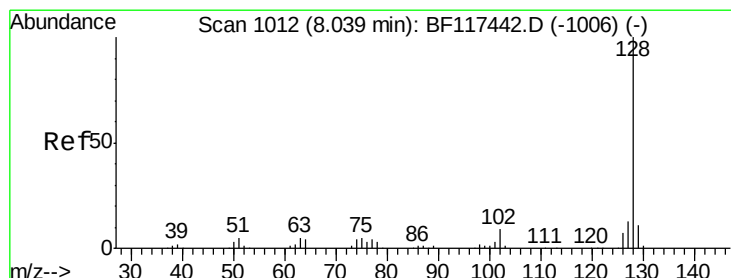
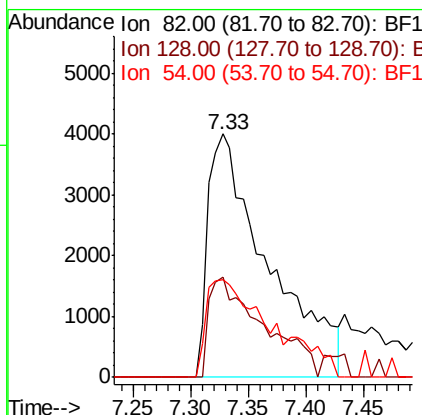
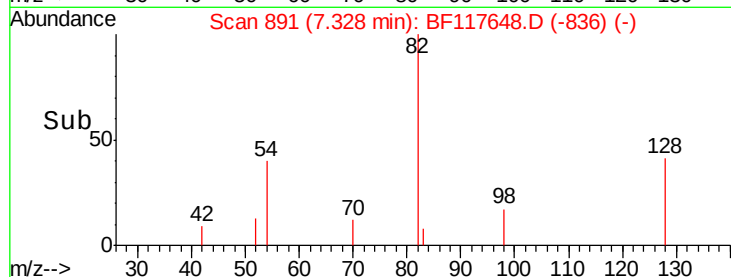
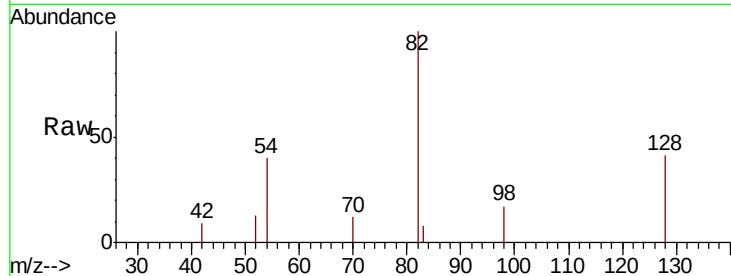
#23
Nitrobenzene-d5
Concen: 5.311 ng
RT: 7.33 min Scan# 891
Delta R.T. 0.02 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.3	32.2	48.2
54	40.0	34.2	51.2

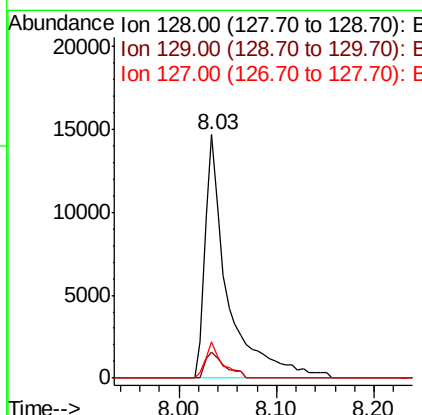
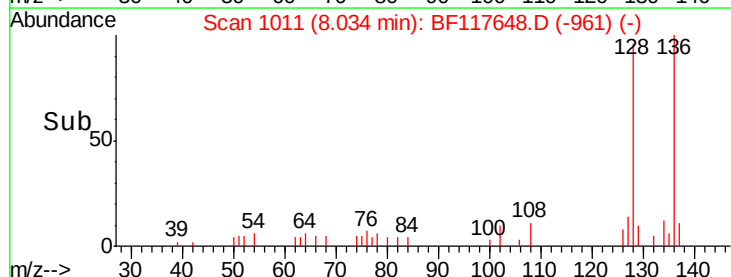
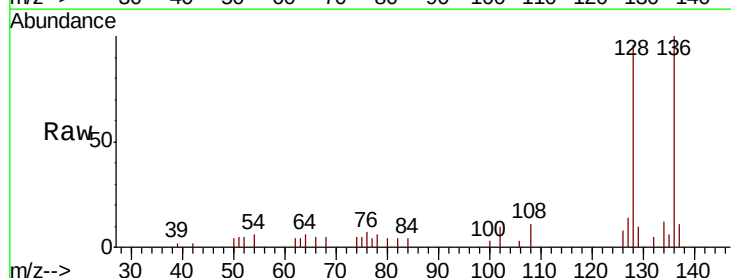
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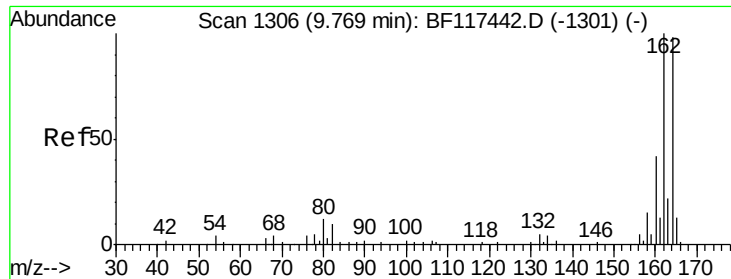
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#31
Naphthalene
Concen: 3.522 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.4
127	15.0	10.2	15.2





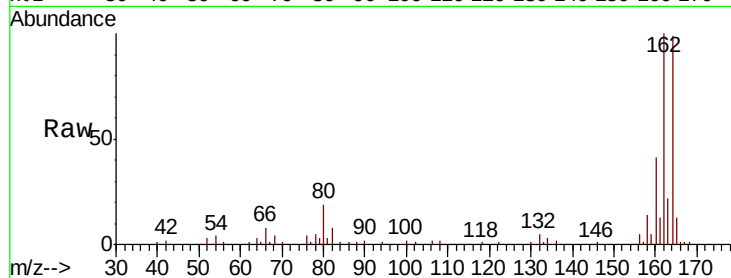
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

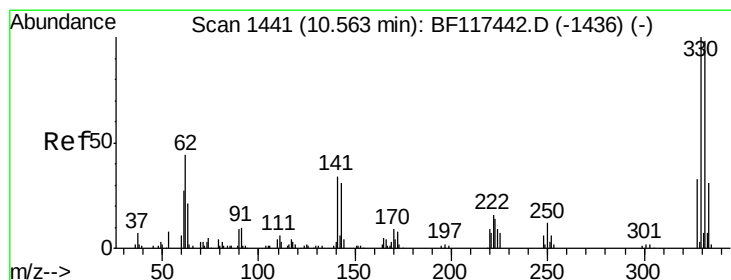
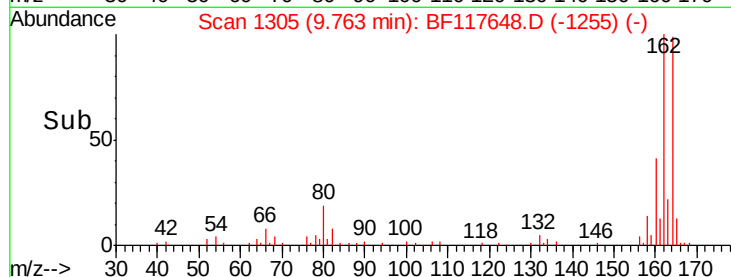
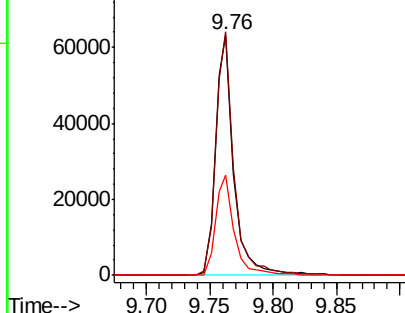
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.4	81.8	122.6
160	41.8	34.4	51.6

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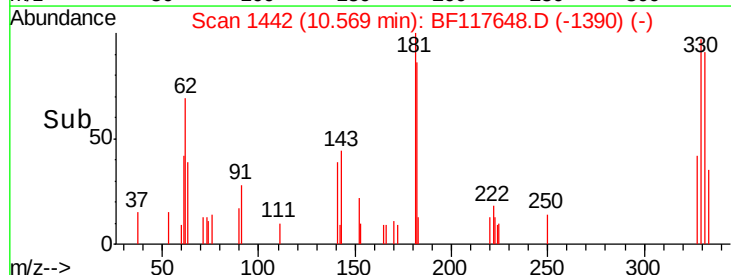
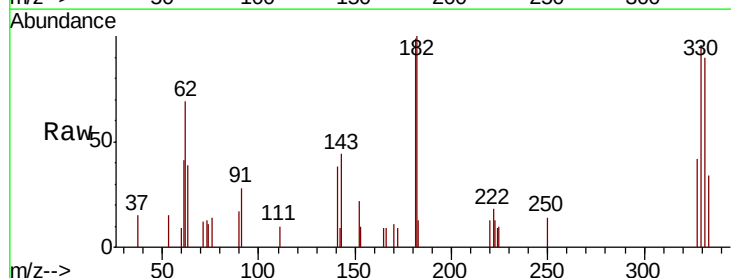
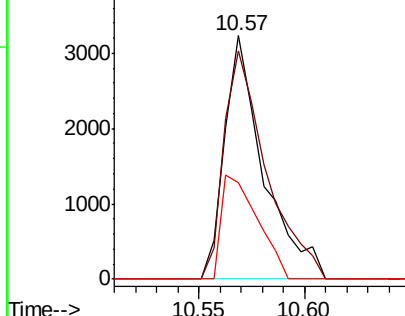
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

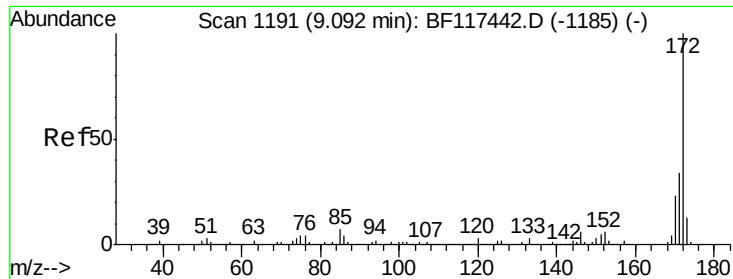


#42
2,4,6-Tribromophenol
Concen: 7.441 ng
RT: 10.57 min Scan# 1442
Delta R.T. 0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.2	78.5	117.7
141	39.6	37.0	55.6

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





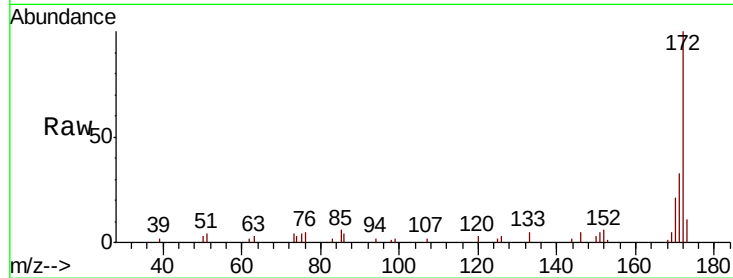
#45
2-Fluorobiphenyl
Concen: 6.296 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.1	27.5	41.3
170	21.4	18.6	27.8

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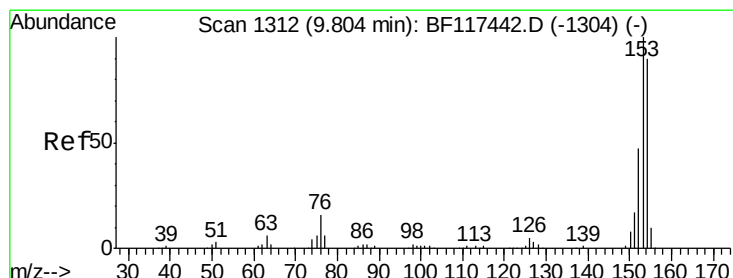
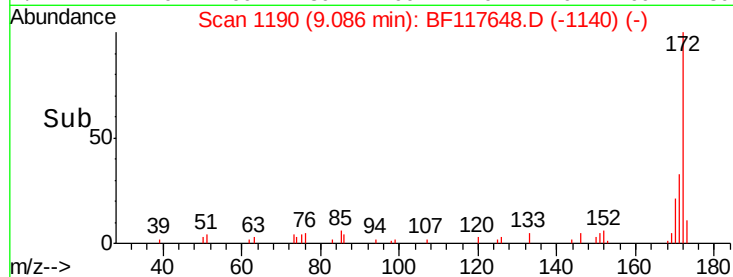
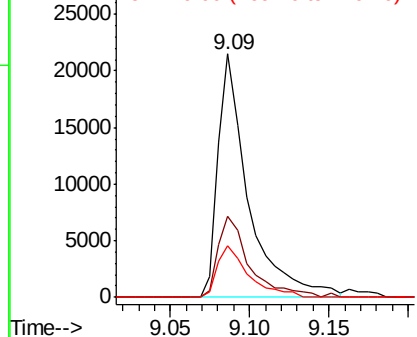


Abundance

Ion 172.00 (171.70 to 172.70): E

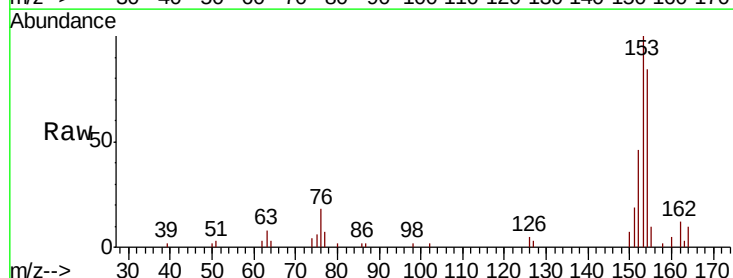
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#52
Acenaphthene
Concen: 4.491 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
154	100		
153	119.1	89.2	133.8
152	55.1	41.8	62.6

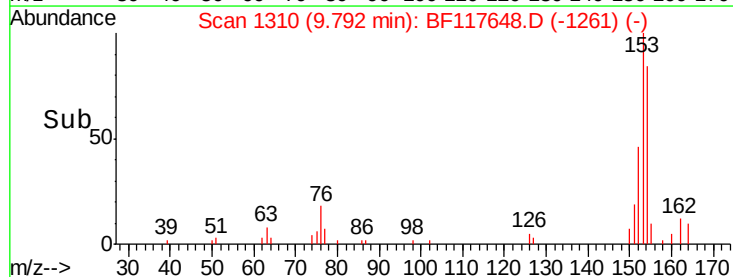
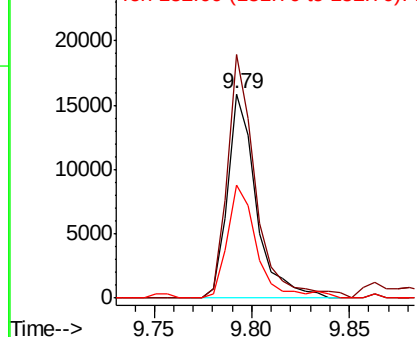


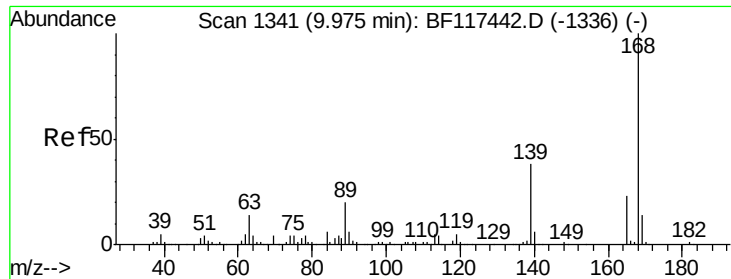
Abundance

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





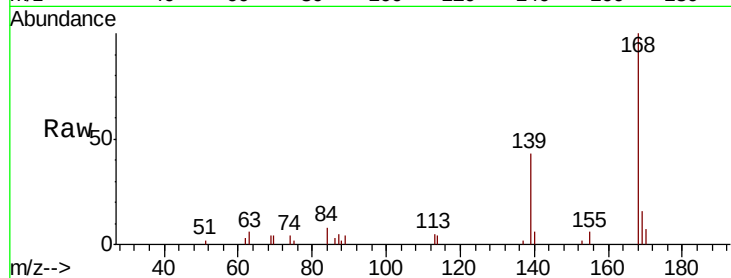
#55
Dibenzenofuran
Concen: 4.243 ng
RT: 9.97 min Scan# 1341
Delta R.T. -0.00 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	43.0	31.8	47.6
169	15.6	11.2	16.8

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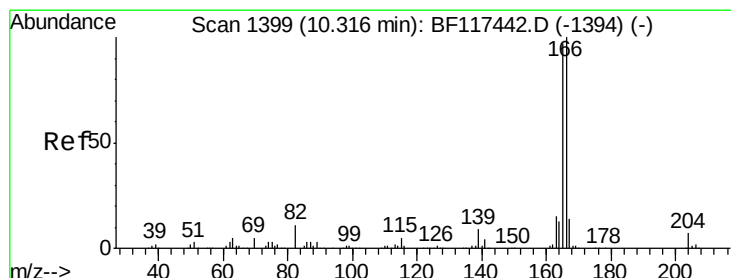
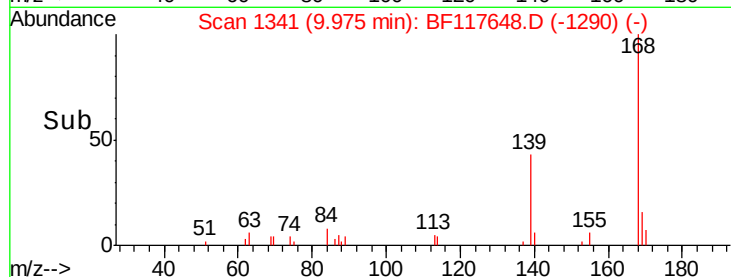
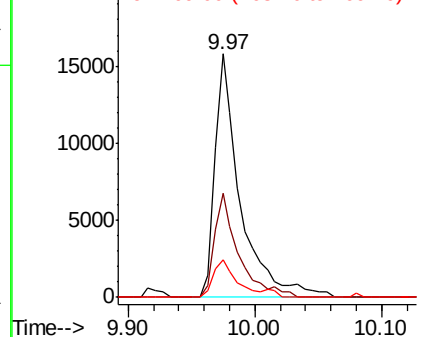


Abundance

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: 5.930 ng
RT: 10.32 min Scan# 1399
Delta R.T. -0.00 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

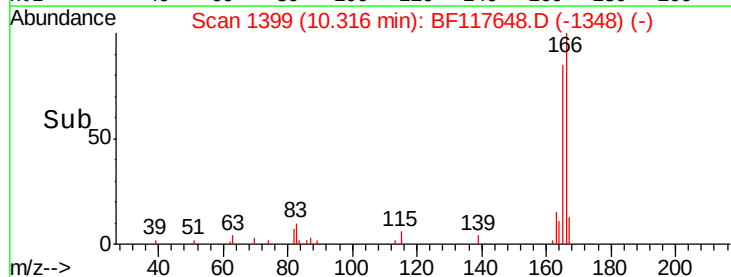
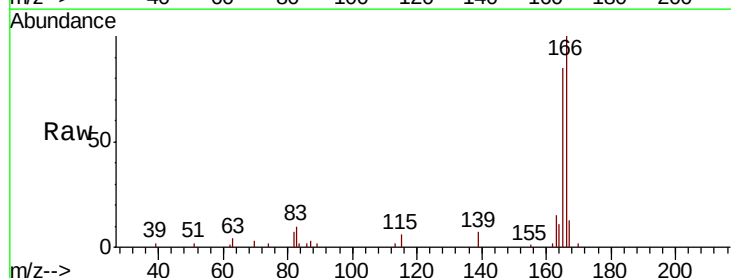
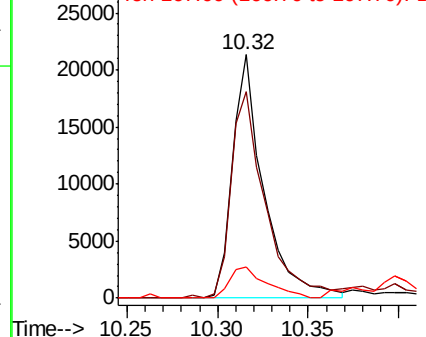
Tgt Ion	Ratio	Lower	Upper
166	100		
165	84.9	77.6	116.4
167	13.0	11.0	16.4

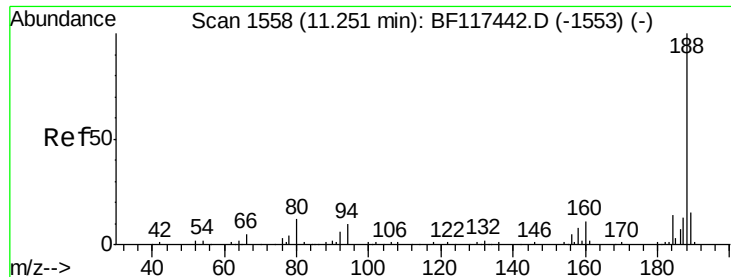
Abundance

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: 11.25 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Instrument :

BNA_F

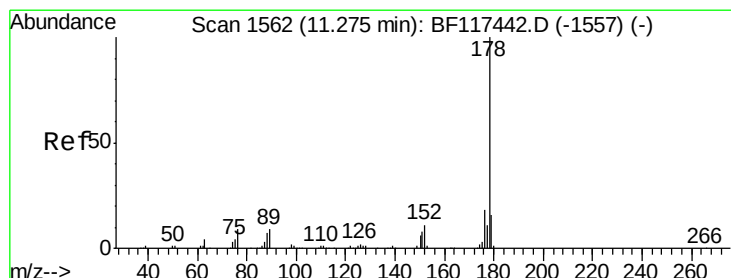
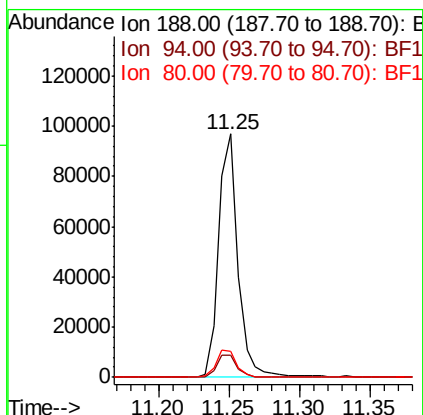
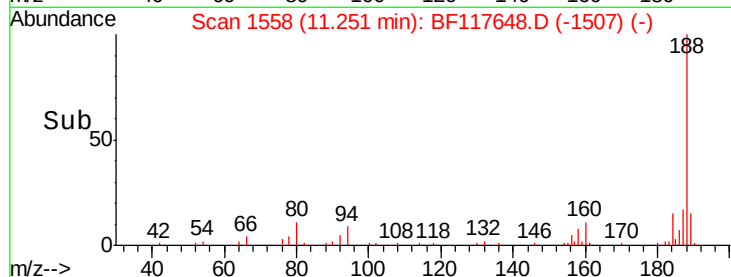
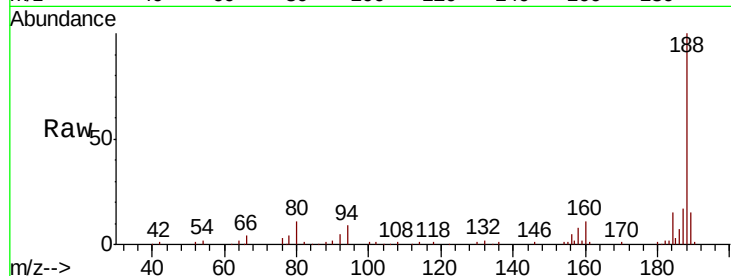
ClientSampleId :

175-70-(0-2.5)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	92541		
94	9.0	8.0	12.0	
80	10.6	9.5	14.3	

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#71

Phenanthrene

Concen: 48.506 ng

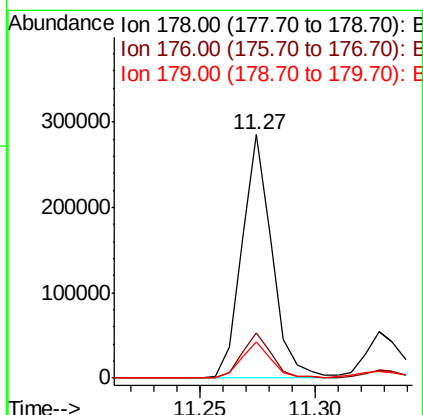
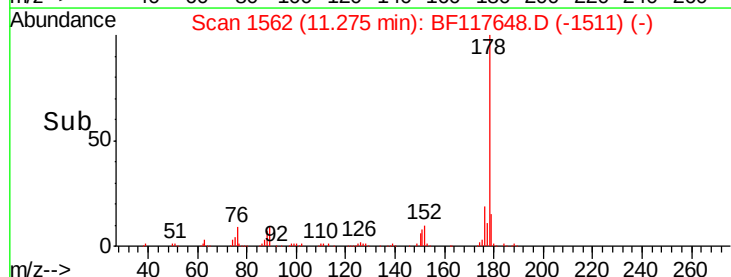
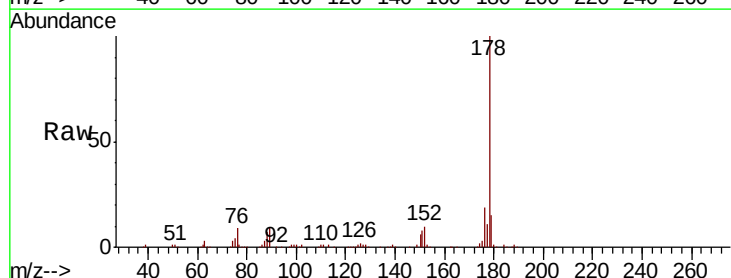
RT: 11.27 min Scan# 1562

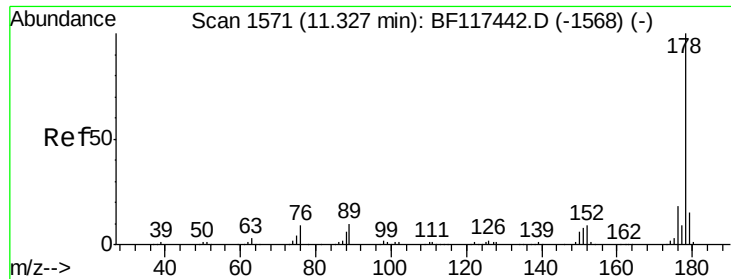
Delta R.T. -0.00 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	260647		
176	18.5	14.6	22.0	
179	14.7	12.6	19.0	





#72

Anthracene

Concen: 11.562 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Instrument :

BNA_F

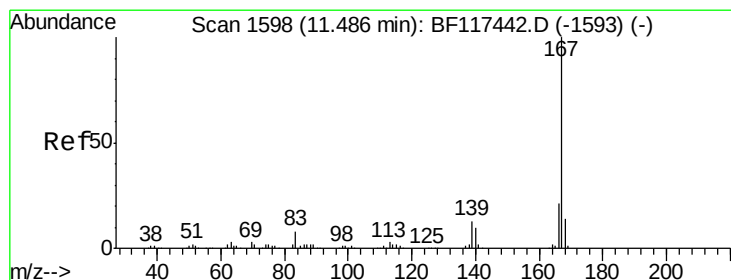
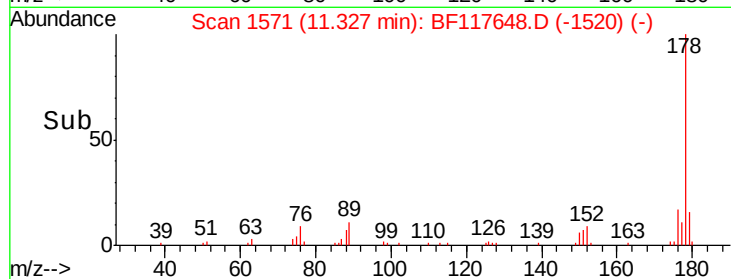
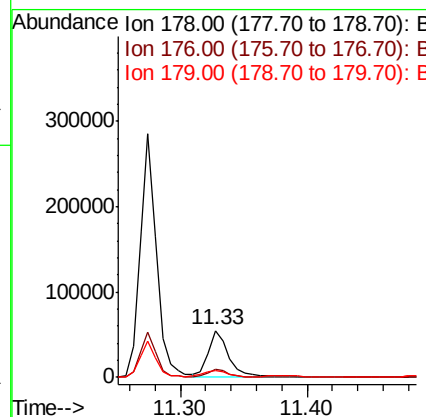
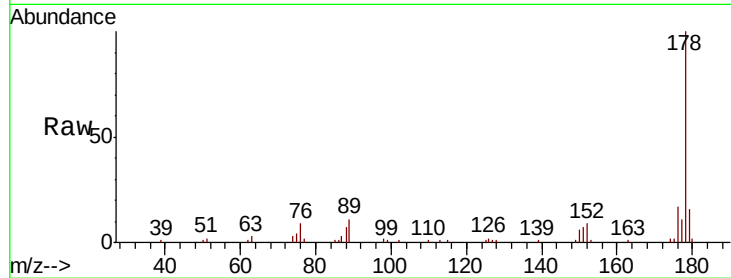
ClientSampleId :

175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.3	14.7	22.1
179	15.7	12.2	18.2

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#73

Carbazole

Concen: 4.493 ng

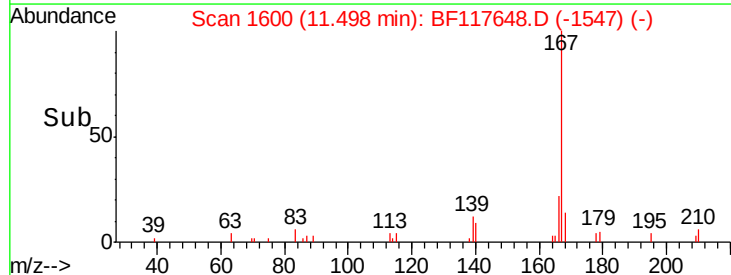
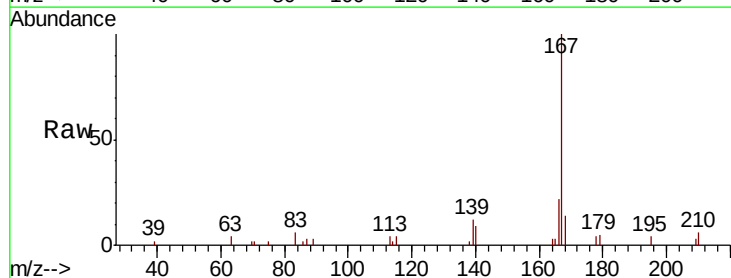
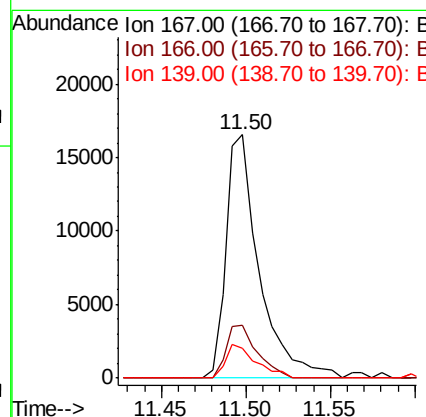
RT: 11.50 min Scan# 1600

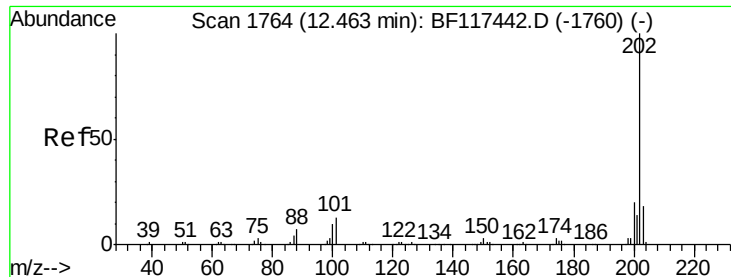
Delta R.T. 0.01 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.0	25.6
139	12.4	10.6	16.0





#75

Fluoranthene

Concen: 43.585 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.01 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Instrument :

BNA_F

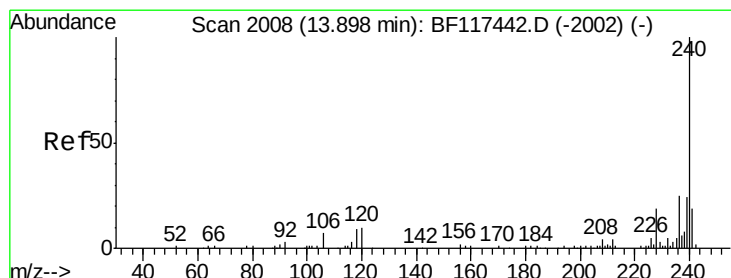
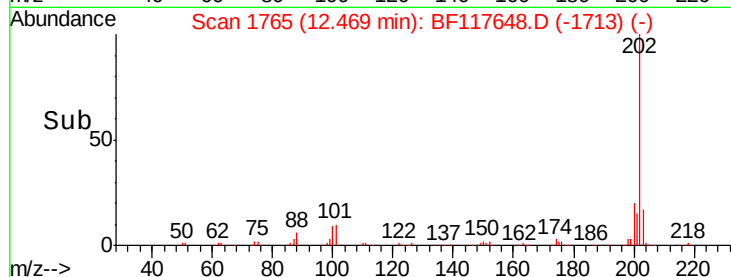
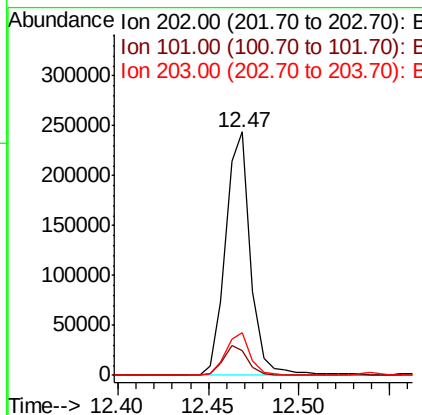
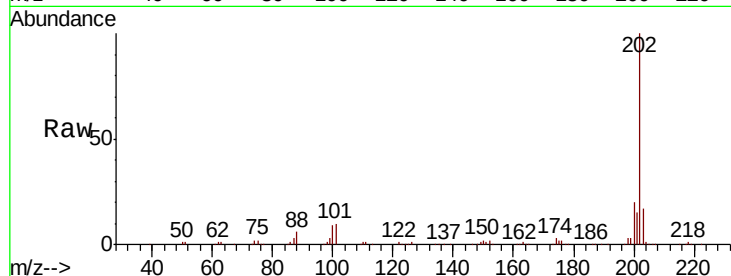
ClientSampleId :

175-70-(0-2.5)DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	234457		
101	10.2	0.0	32.7	
203	17.3	0.0	37.6	

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#76

Chrysene-d12

Concen: 20.000 ng

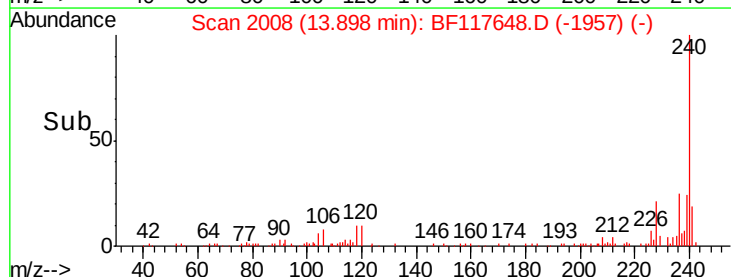
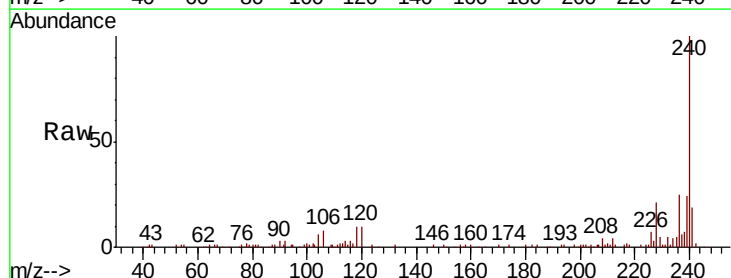
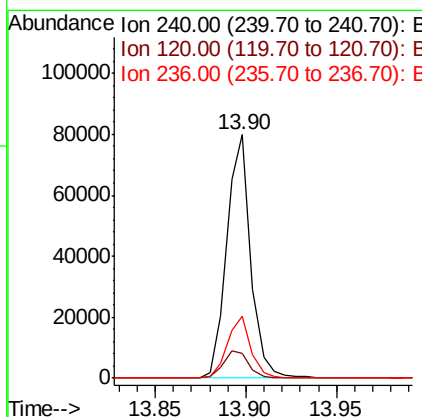
RT: 13.90 min Scan# 2008

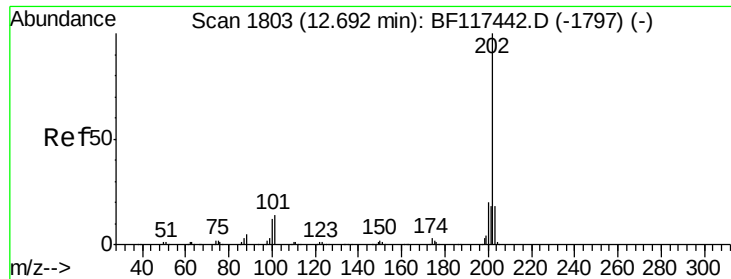
Delta R.T. -0.00 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	73613		
120	10.3	8.4	12.6	
236	25.4	20.0	30.0	





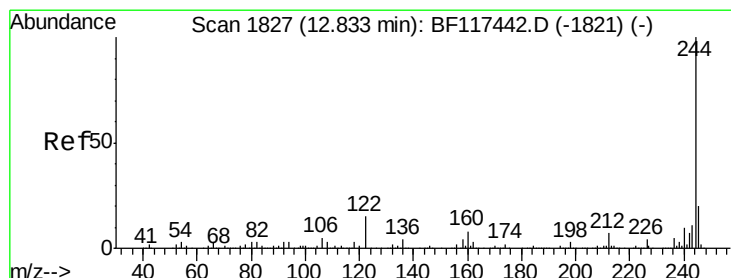
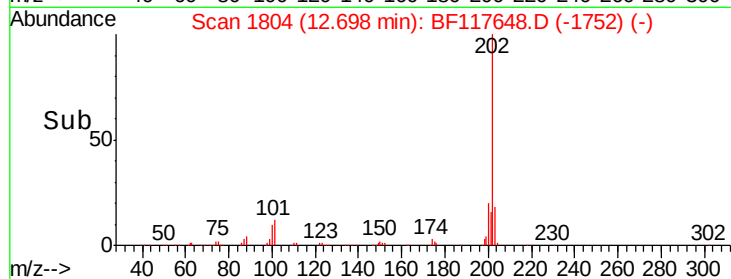
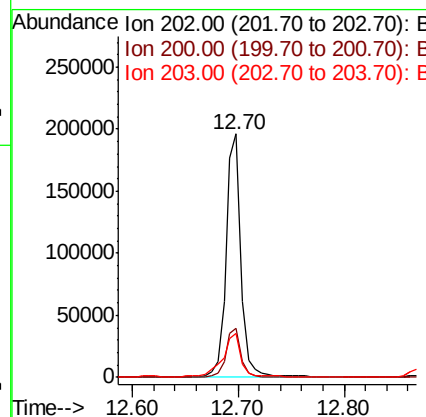
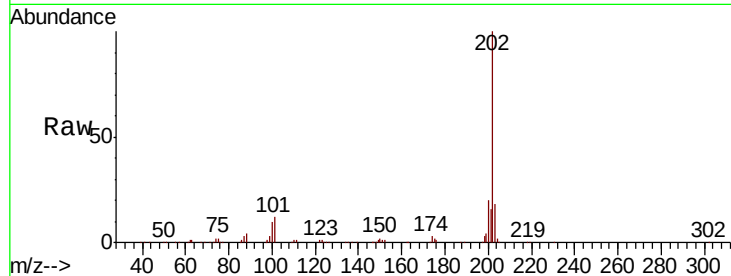
#78
Pvrene
Concen: 30.787 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.2	24.2
203	17.8	14.0	21.0

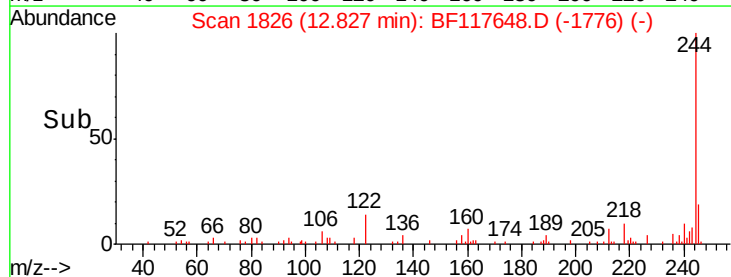
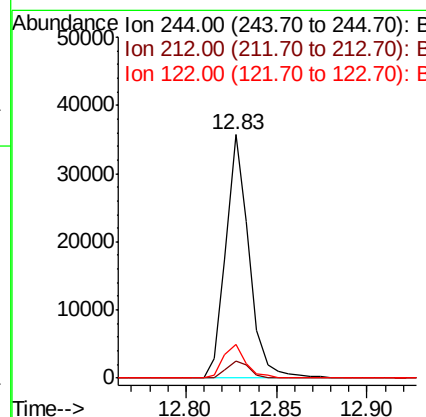
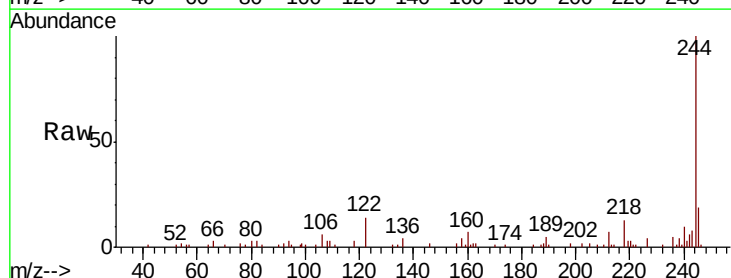
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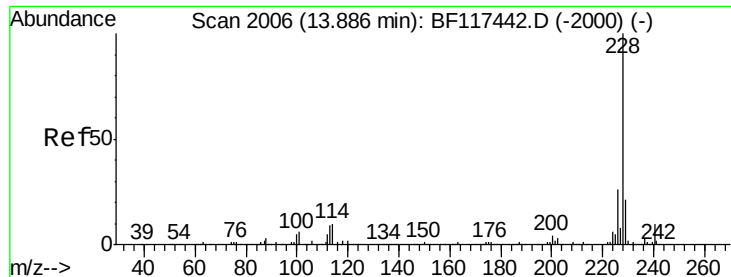
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#79
Terphenyl-d14
Concen: 7.103 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	14.0	11.8	17.8





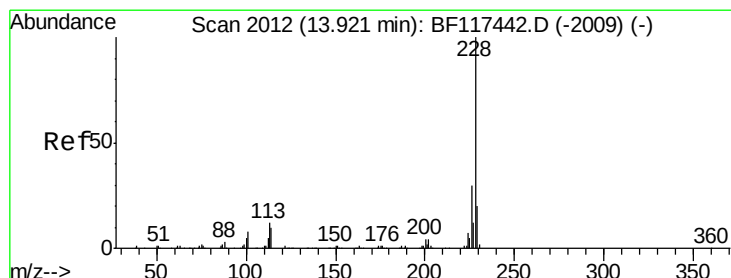
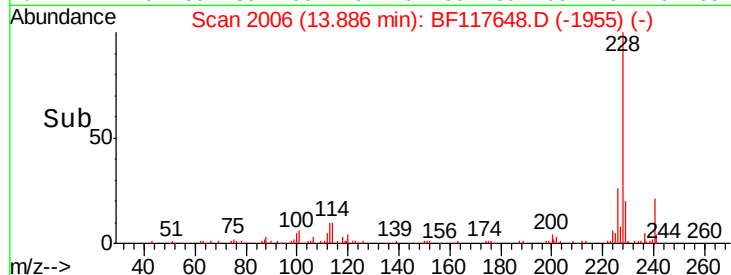
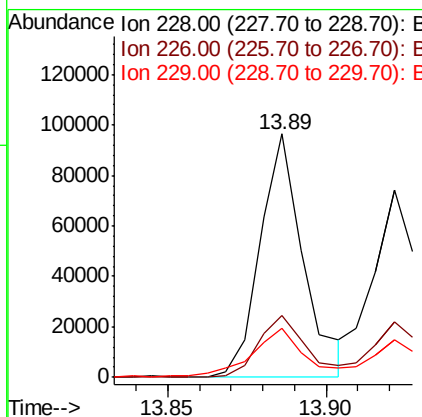
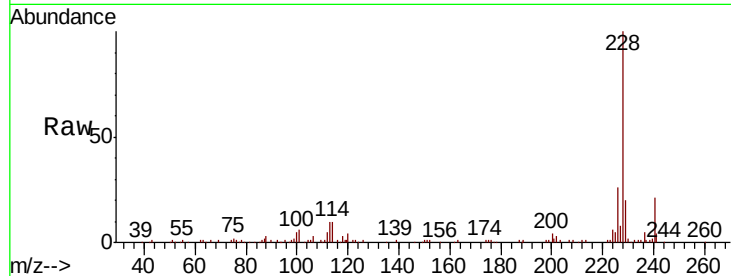
#81
Benzo(a)anthracene
Concen: 18.417 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	25.6	21.0	31.4
229	20.3	16.4	24.6

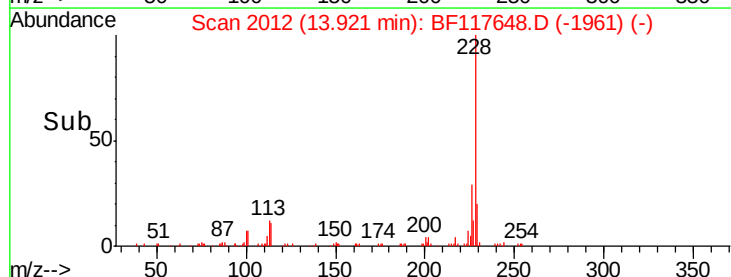
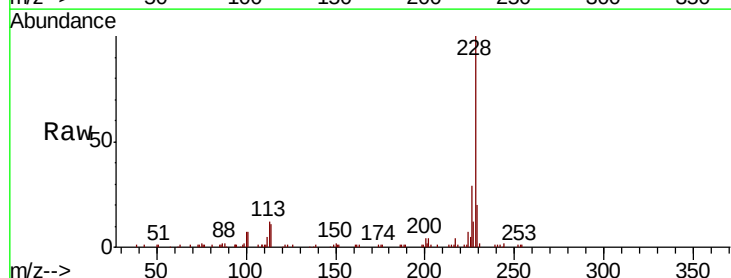
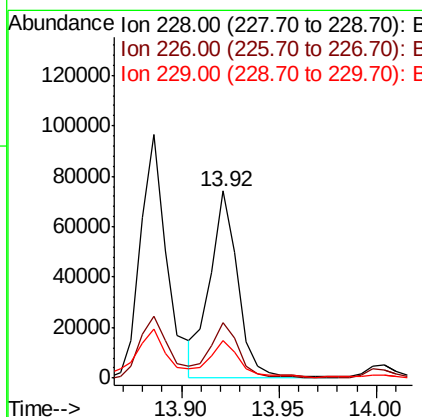
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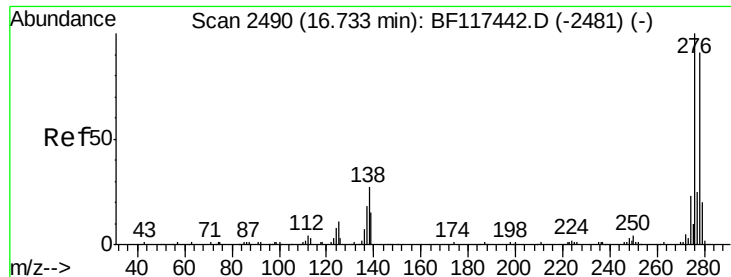
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#83
Chrysene
Concen: 15.407 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.9	35.9
229	20.2	15.8	23.6





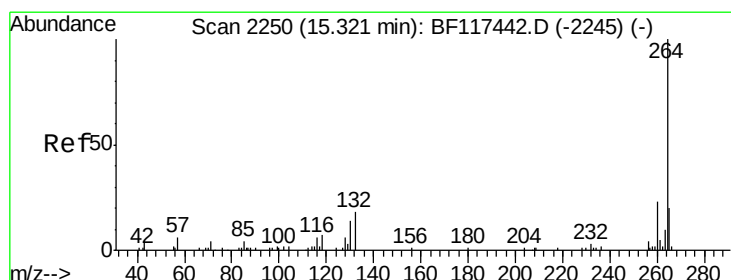
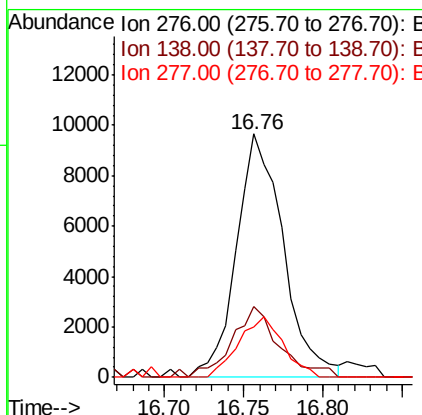
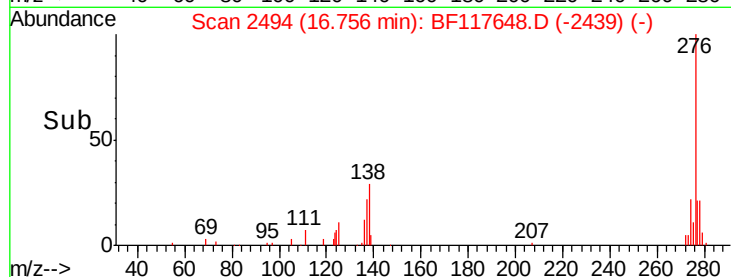
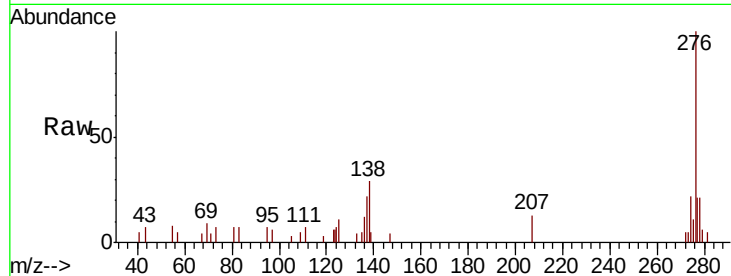
#86
Indeno(1,2,3-cd)pyrene
Concen: 5.472 ng
RT: 16.76 min Scan# 2494
Delta R.T. 0.02 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Instrument :
BNA_F
ClientSampleId :
175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.4	21.8	32.8
277	23.6	20.0	30.0

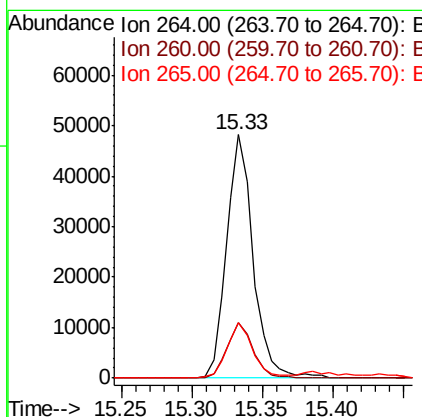
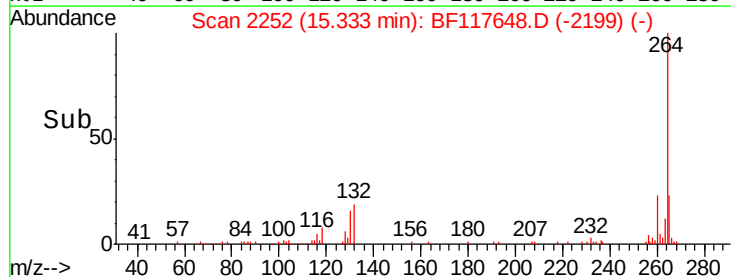
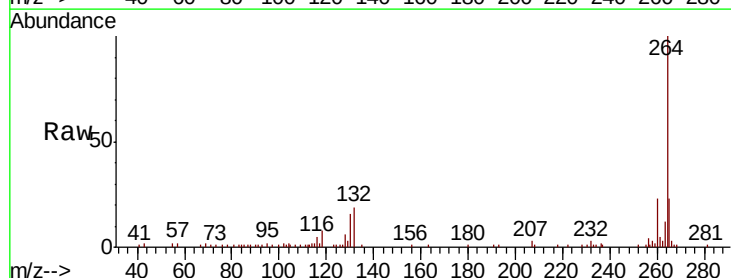
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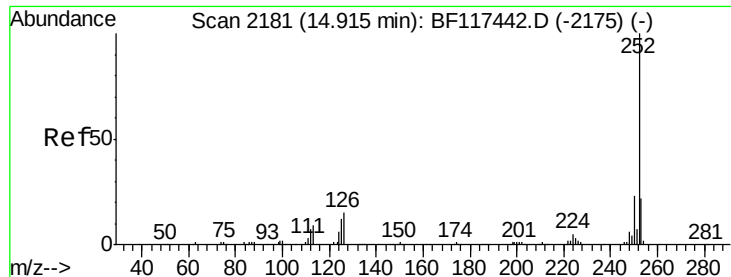
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF117648.D
Acq: 31 Oct 2019 6:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.4	27.6
265	22.9	16.1	24.1





#88

Benzo(b)fluoranthene

Concen: 18.046 ng m

RT: 14.93 min Scan# 2183

Delta R.T. 0.01 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Instrument :

BNA_F

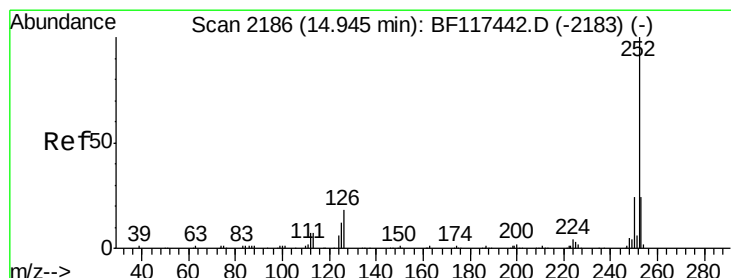
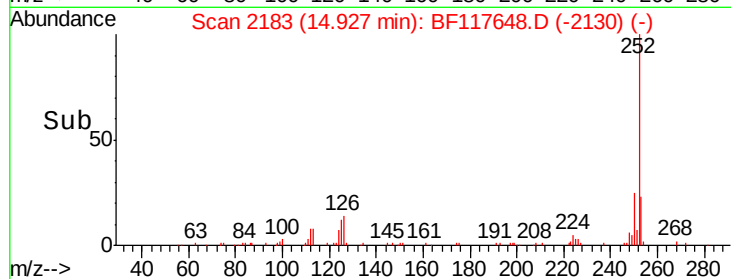
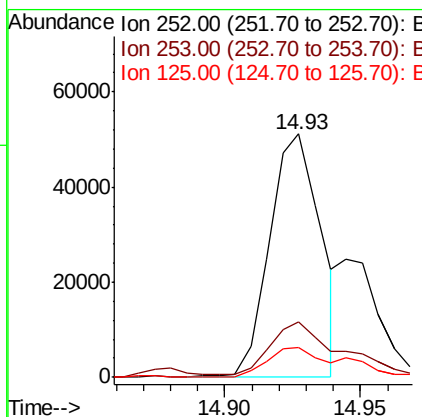
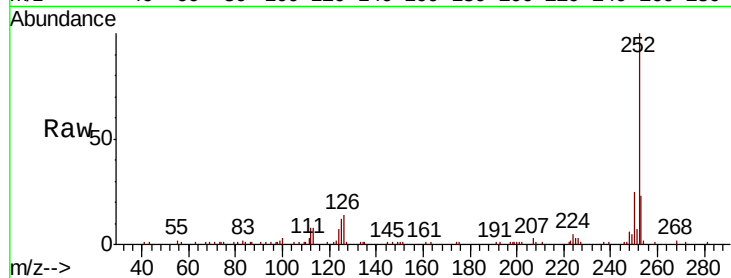
ClientSampleId :

175-70-(0-2.5)DL

Tot Ion:	252	Resp:	66992
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.8	26.6
125	12.2	9.9	14.9

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#89

Benzo(k)fluoranthene

Concen: 6.799 ng m

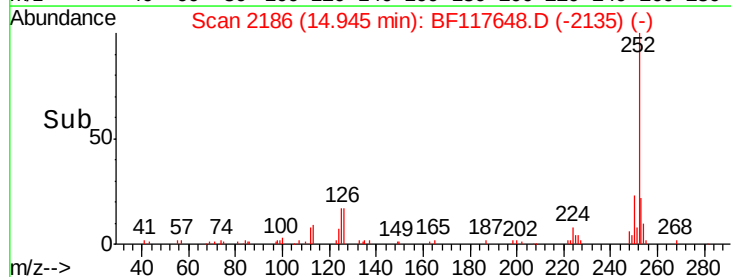
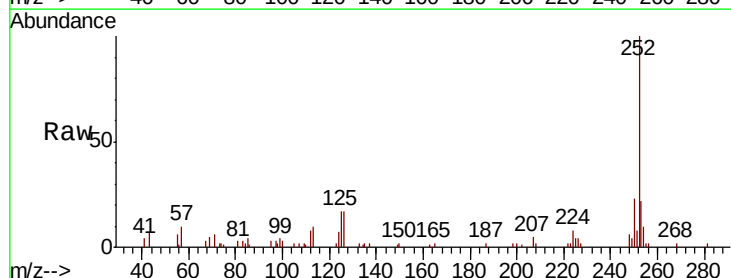
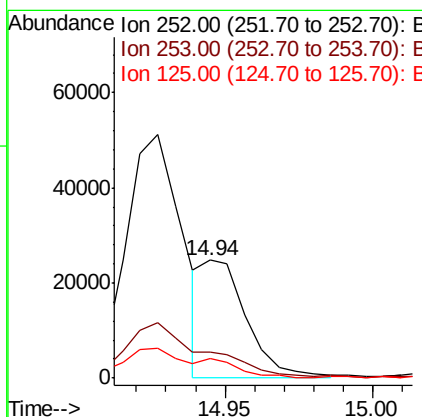
RT: 14.94 min Scan# 2186

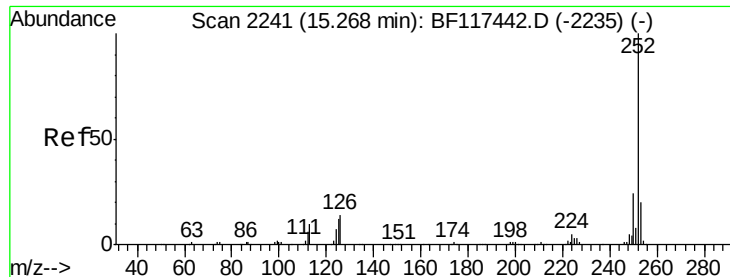
Delta R.T. -0.00 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Tgt Ion:	252	Resp:	25869
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.0	27.0
125	16.7	8.9	13.3#





#90

Benzo(a)pyrene

Concen: 13.178 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Instrument :

BNA_F

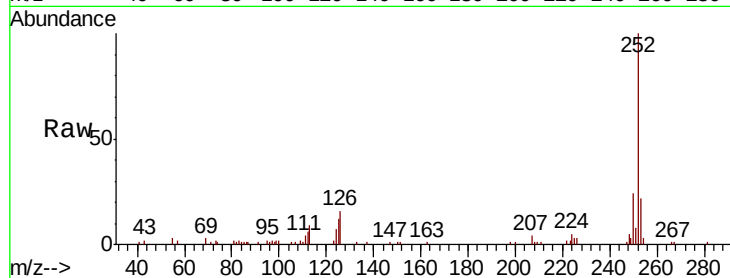
ClientSampleId :

175-70-(0-2.5)DL

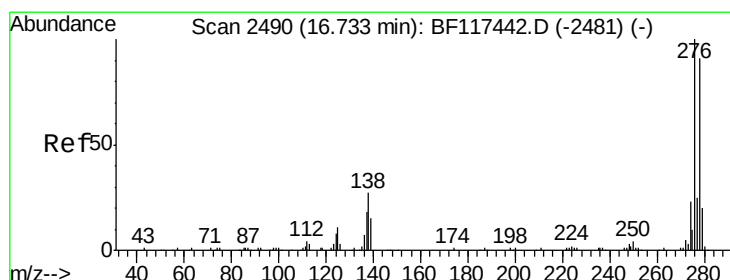
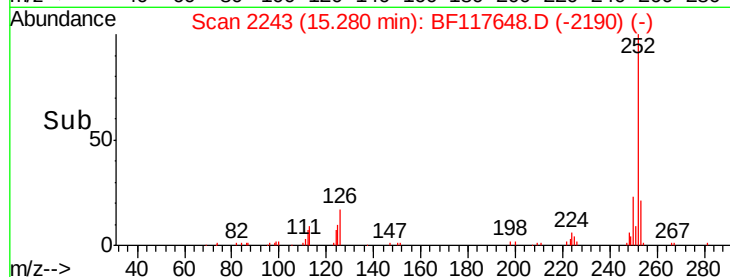
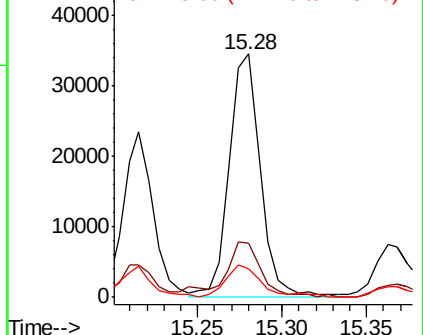
Tot Ion:	252	Resp:	44479
Ion Ratio	Lower	Upper	
252	100		
253	22.2	16.3	24.5
125	11.6	9.2	13.8

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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



#91

Dibenzo(a,h)anthracene

Concen: 2.145 ng

RT: 16.75 min Scan# 2493

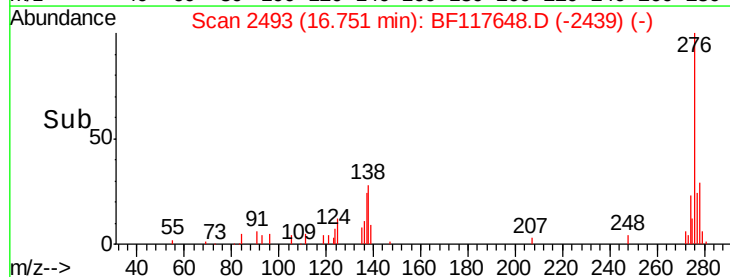
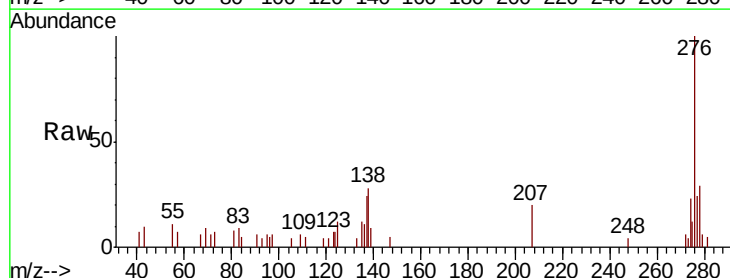
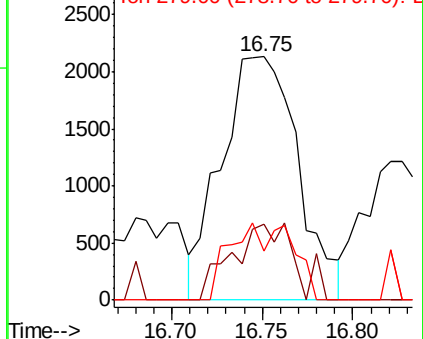
Delta R.T. 0.02 min

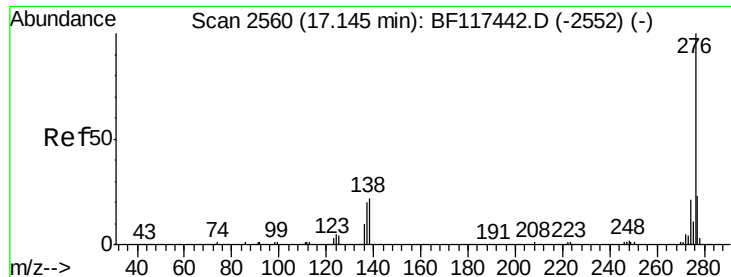
Lab File: BF117648.D

Acq: 31 Oct 2019 6:14

Tgt Ion:	278	Resp:	6261
Ion Ratio	Lower	Upper	
278	100		
139	31.2	13.4	20.0#
279	20.0	17.8	26.6

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 6.237 ng
 RT: 17.20 min Scan# 2569
 Delta R.T. 0.05 min
 Lab File: BF117648.D
 Acq: 31 Oct 2019 6:14

Instrument :
 BNA_F
 ClientSampleId :
 175-70-(0-2.5)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.5	18.4	27.6
138	25.3	17.8	26.6

Manual Integrations
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