

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
 Data File : BF117599.D
 Acq On : 29 Oct 2019 18:58
 Operator : JU
 Sample : K5503-03 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

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

Manual Integrations
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 10/30/2019 4:53:17 PM

Quant Time: Oct 30 13:17:01 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	41878	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	156762	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	67640	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	98241	20.00	ng	0.00
76) Chrysene-d12	13.90	240	75064	20.00	ng	0.00
87) Perylene-d12	15.33	264	58394	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	140081	49.76	ng	0.00
7) Phenol-d6	6.39	99	192121	50.82	ng	0.00
23) Nitrobenzene-d5	7.29	82	114217	35.97	ng	-0.01
42) 2,4,6-Tribromophenol	10.56	330	26932	46.02	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	166544	34.69	ng	-0.01
79) Terphenyl-d14	12.83	244	168990	36.72	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.03	128	135912	17.491	ng	99
37) 2-Methylnaphthalene	8.72	142	50628	9.670	ng	100
38) 1-Methylnaphthalene	8.82	142	41983	8.533	ng	97
46) 1,1'-Biphenyl	9.19	154	16779	2.996	ng	98
49) Acenaphthylene	9.62	152	18260	2.944	ng	# 93
50) Dimethylphthalate	9.48	163	17332	3.594	ng	97
52) Acenaphthene	9.79	154	84705	22.263	ng	100
55) Dibenzofuran	9.97	168	119351	21.651	ng	98
58) Fluorene	10.31	166	123828	27.164	ng	100
71) Phenanthrene	11.29	178	1196352	209.721	ng	98
72) Anthracene	11.33	178	297913	50.898	ng	99
73) Carbazole	11.49	167	118031	22.066	ng	99
75) Fluoranthene	12.48	202	1111561	194.647	ng	99
78) Pyrene	12.71	202	932287	144.595	ng	99
81) Benzo(a)anthracene	13.89	228	445083	87.903	ng	99
83) Chrysene	13.93	228	353141	71.163	ng	97
86) Indeno(1,2,3-cd)pyrene	16.75	276	99710	26.912	ng	94
88) Benzo(b)fluoranthene	14.93	252	313120m	90.806	ng	
89) Benzo(k)fluoranthene	14.95	252	90269m	25.541	ng	
90) Benzo(a)pyrene	15.28	252	194626	62.079	ng	97
91) Dibenzo(a,h)anthracene	16.74	278	24700	9.111	ng	# 82
92) Benzo(g,h,i)perylene	17.18	276	88336	34.439	ng	97

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

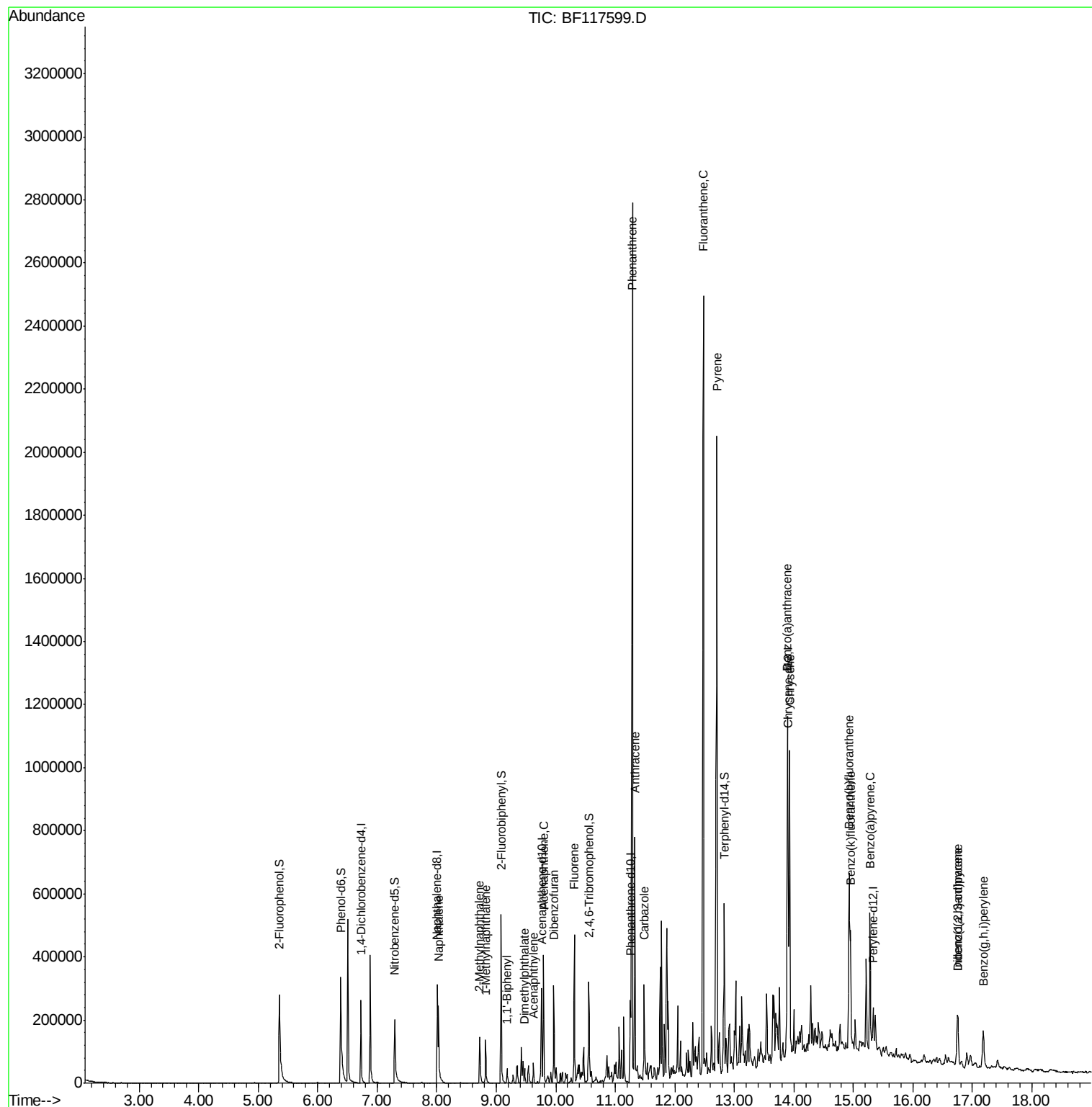
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117599.D
Acq On : 29 Oct 2019 18:58
Operator : JU
Sample : K5503-03 2X
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Instrument :
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175-70-(0-2.5)

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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
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#1

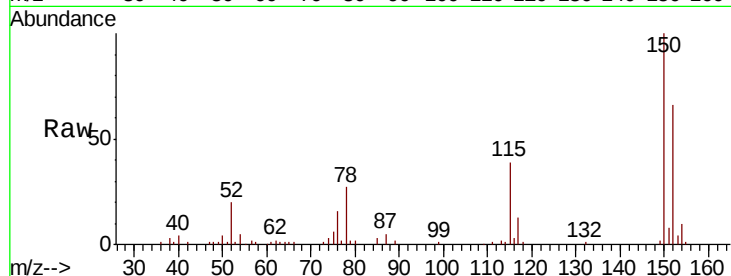
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	126.8	190.2
115	59.4	51.6	77.4

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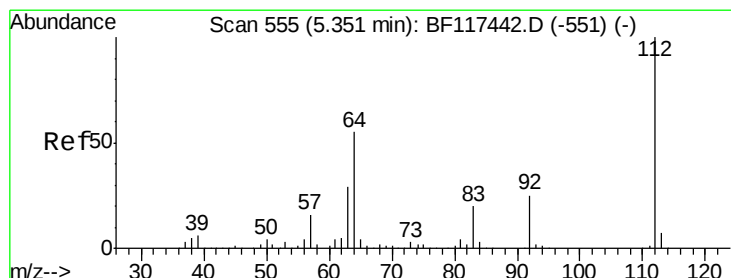
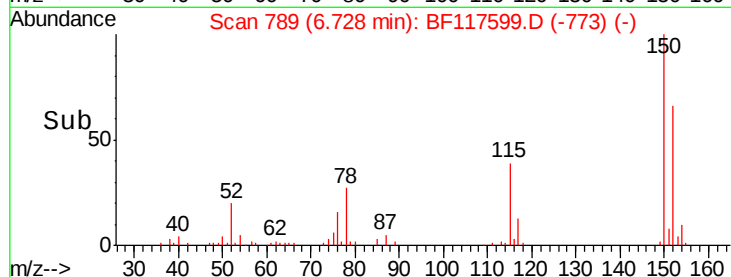
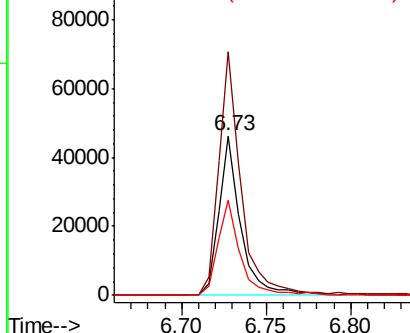


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

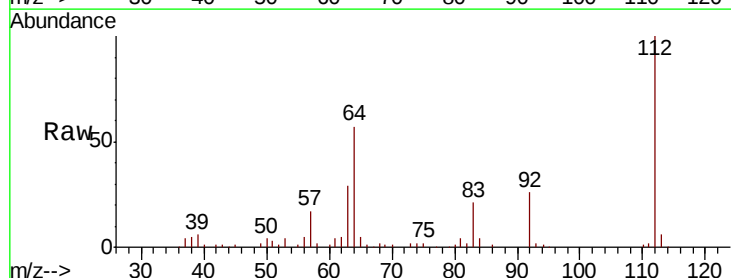
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 49.763 ng
RT: 5.36 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	44.1	66.1
63	29.4	23.4	35.2

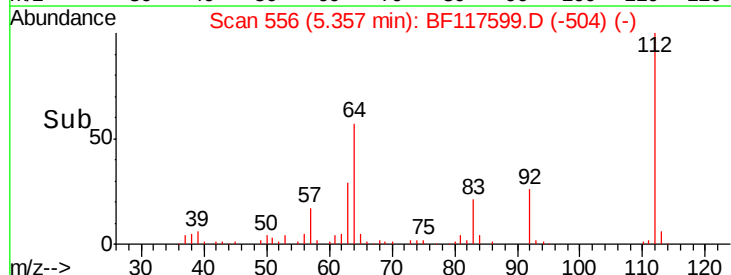
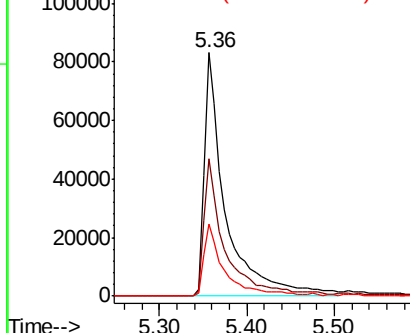


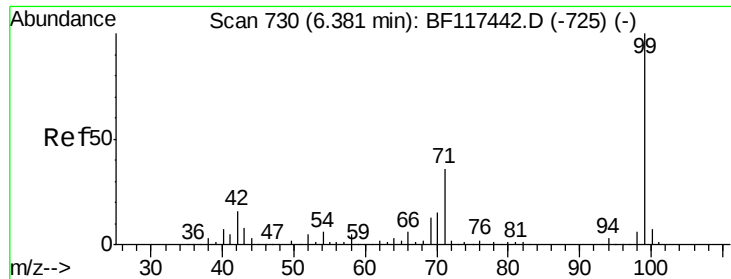
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 50.815 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Instrument :

BNA_F

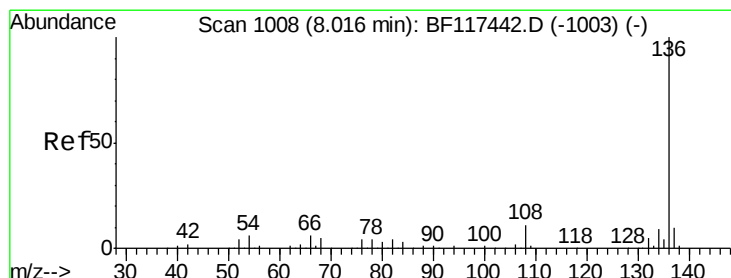
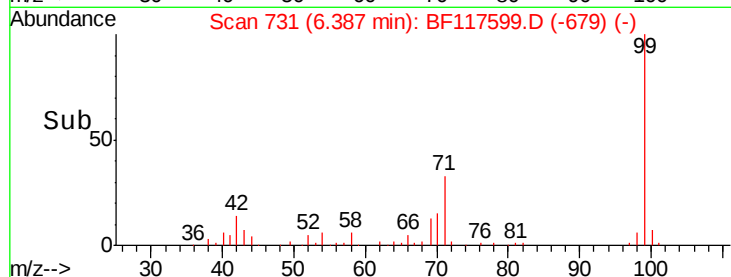
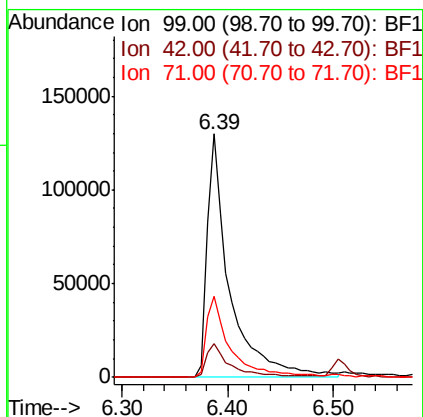
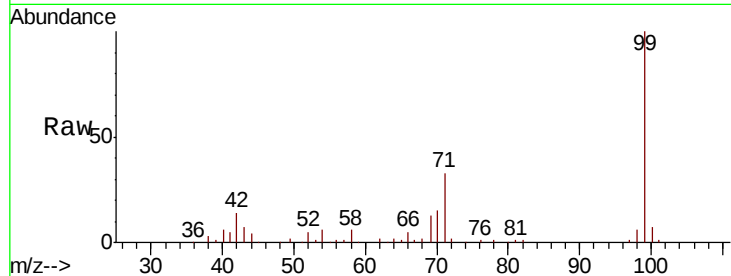
ClientSampleId :

175-70-(0-2.5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		192121		
42	13.9	12.8	19.2		
71	33.5	28.6	43.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

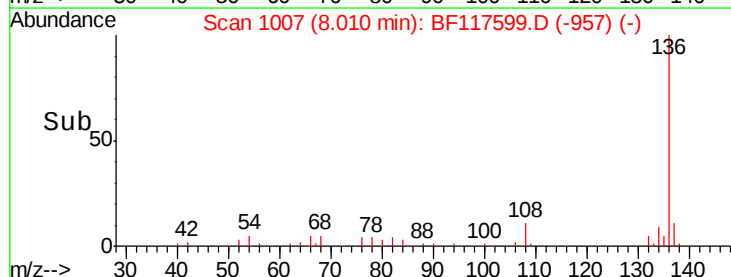
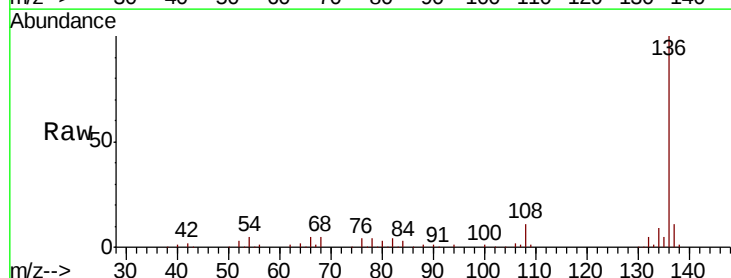
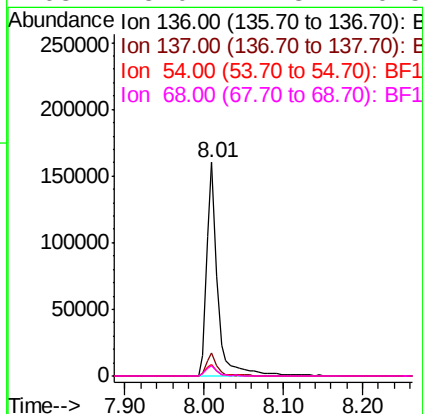
RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		156762		
137	11.0	8.2	12.4		
54	5.3	4.5	6.7		
68	5.0	4.3	6.5		





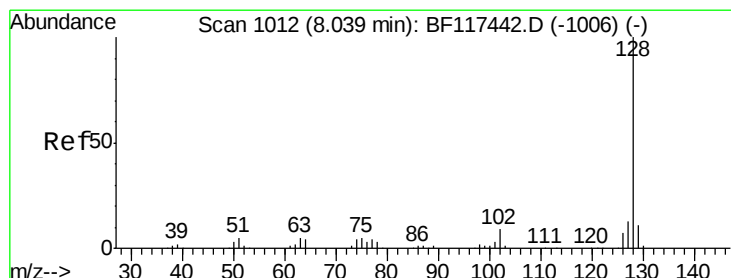
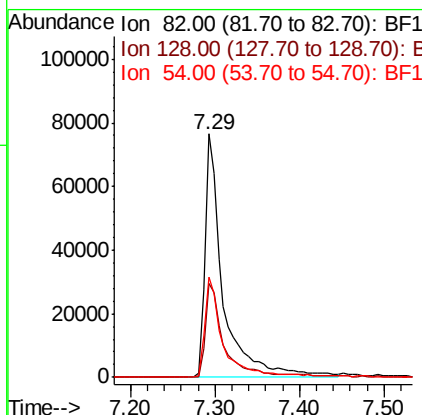
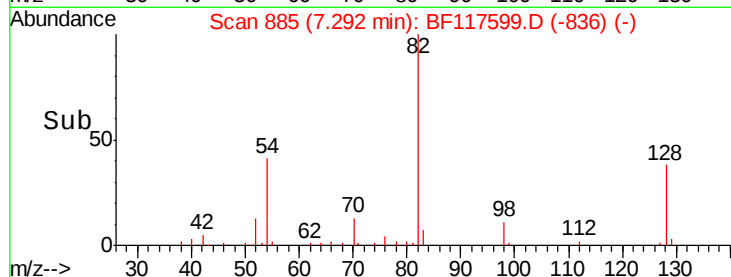
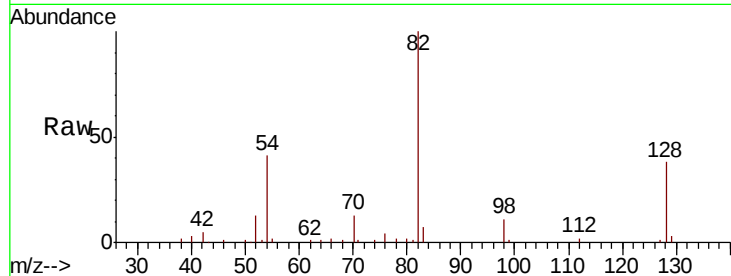
#23
Nitrobenzene-d5
Concen: 35.969 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.4	32.2	48.2
54	41.4	34.2	51.2

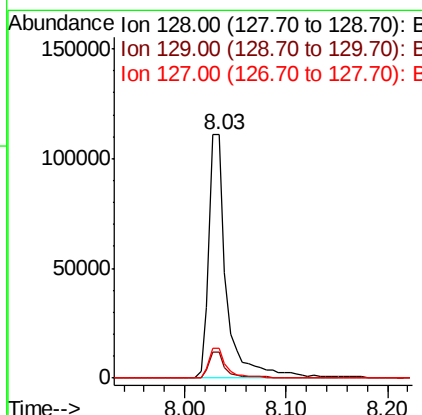
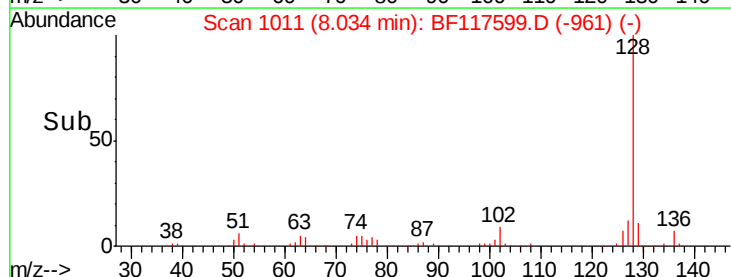
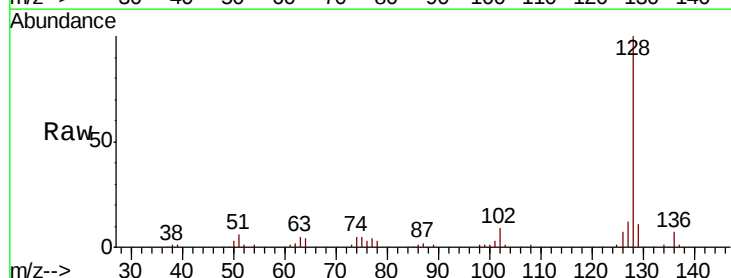
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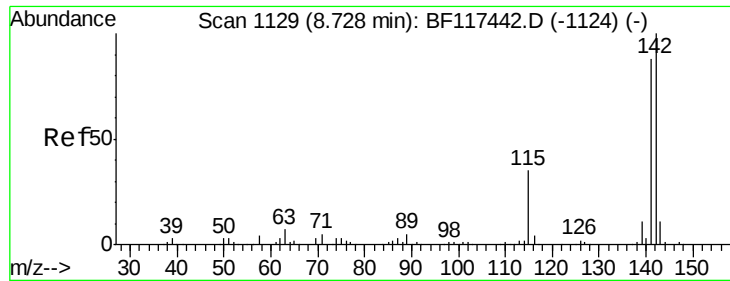
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#31
Naphthalene
Concen: 17.491 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.4
127	12.4	10.2	15.2





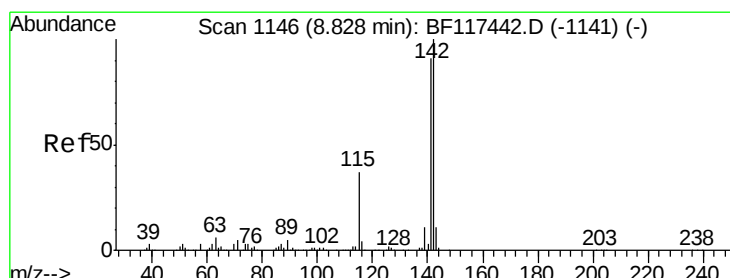
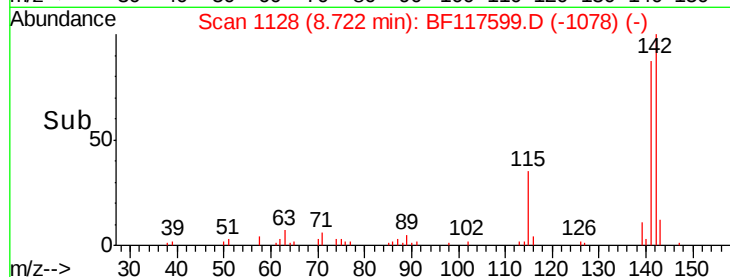
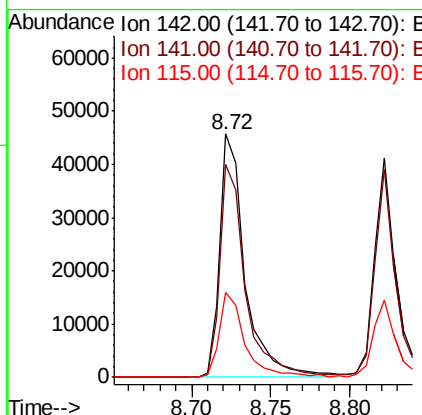
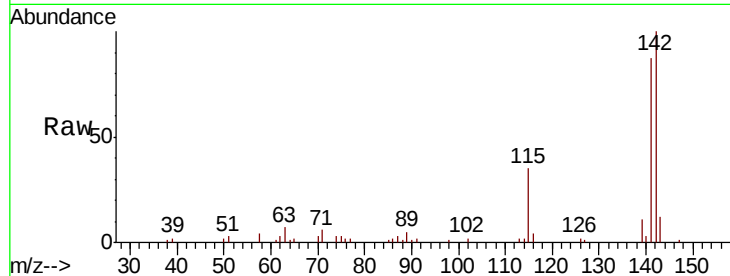
#37
2-Methylnaphthalene
Concen: 9.670 ng
RT: 8.72 min Scan# 1128
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.3	105.5
115	35.0	28.2	42.2

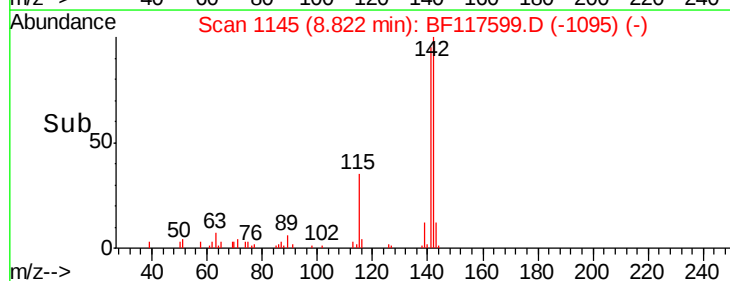
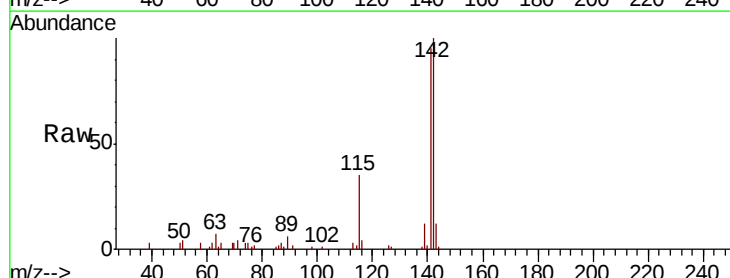
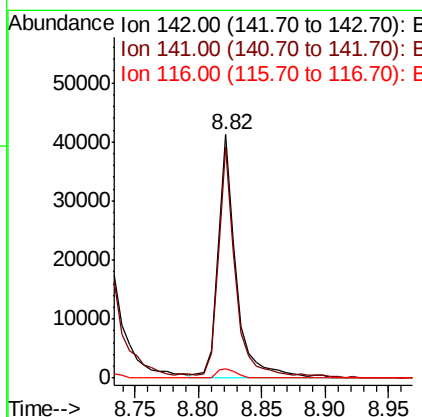
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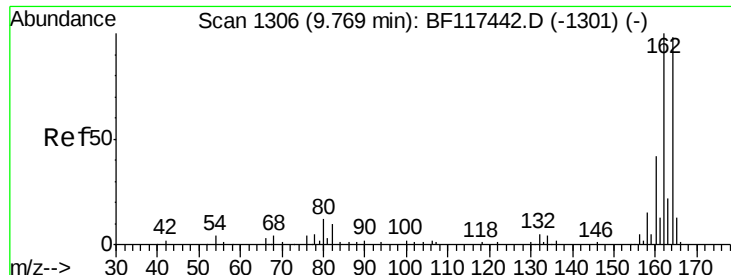
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#38
1-Methylnaphthalene
Concen: 8.533 ng
RT: 8.82 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.6	73.3	109.9
116	3.9	3.1	4.7





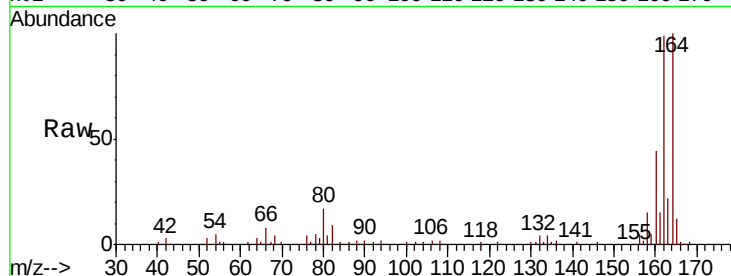
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

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

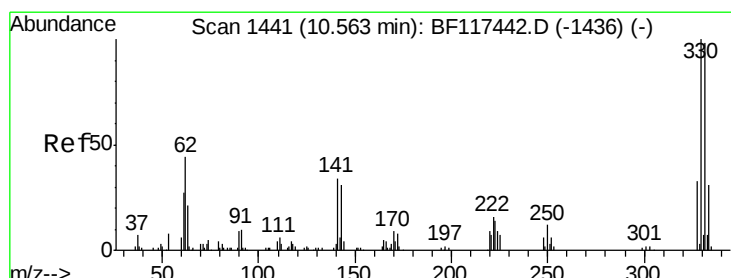
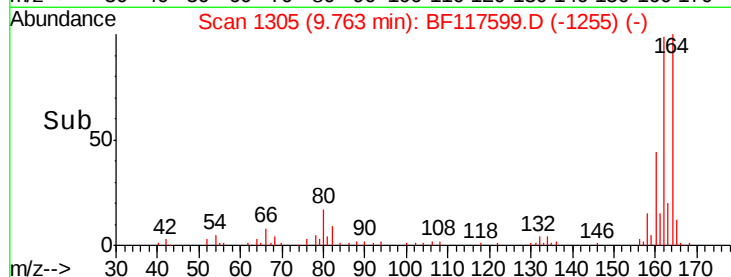
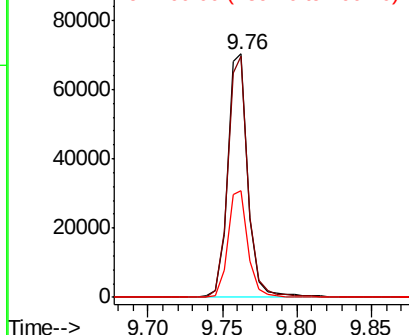
Tot Ion	Ratio	Lower	Upper
164	100		
162	99.2	81.8	122.6
160	43.7	34.4	51.6

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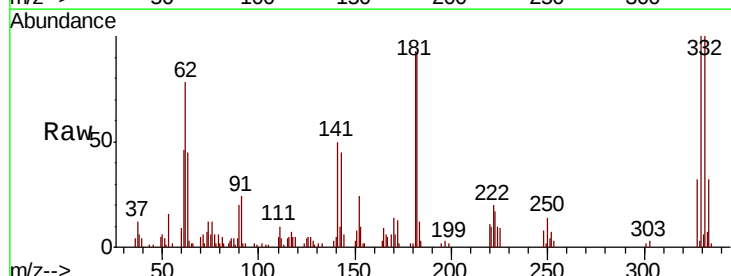


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

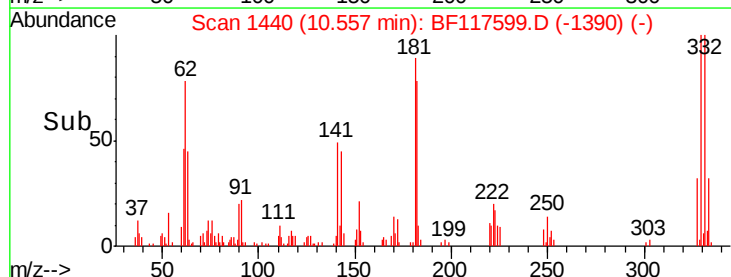
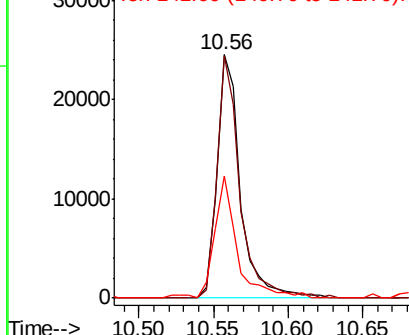


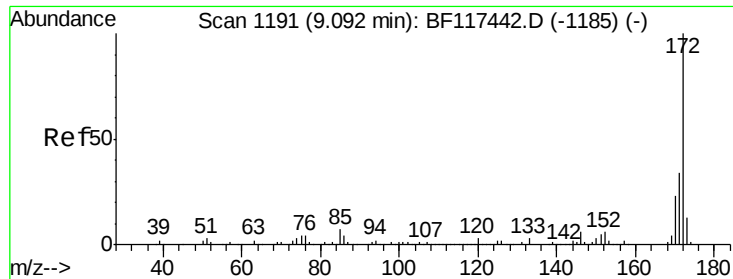
#42
 2,4,6-Tribromophenol
 Concen: 46.017 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.5	117.7
141	48.8	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





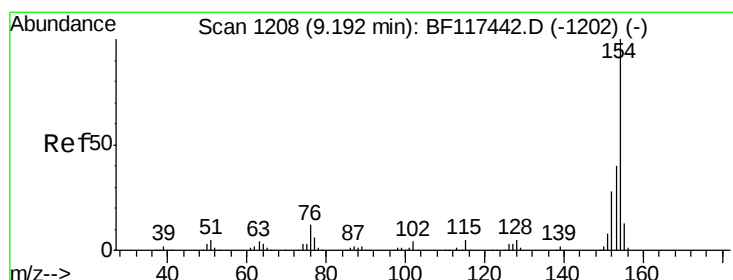
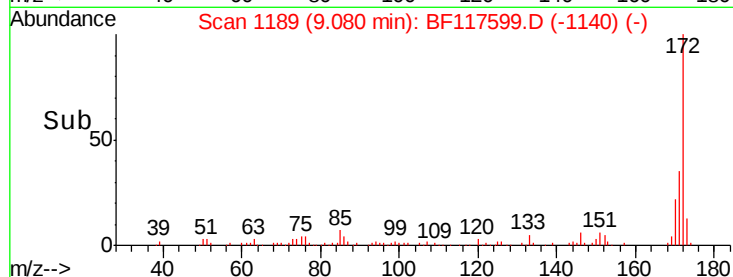
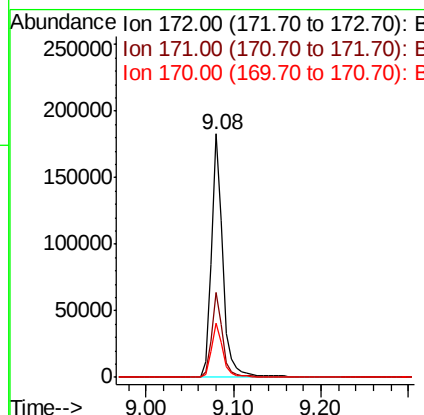
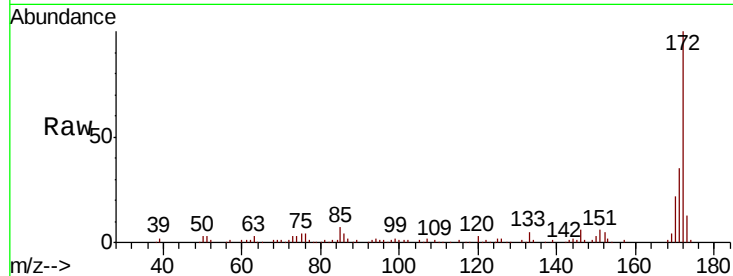
#45
2-Fluorobiphenyl
Concen: 34.692 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Resp	Lower	Upper
172	100	166544		
171	34.9	27.5	41.3	
170	22.4	18.6	27.8	

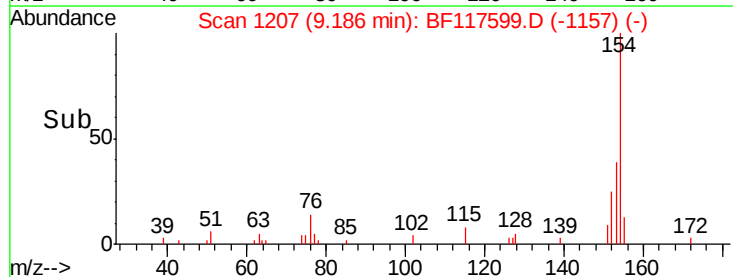
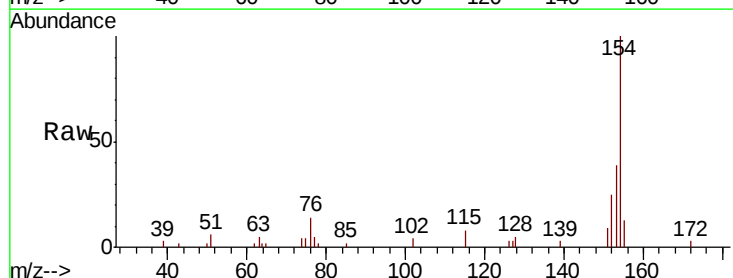
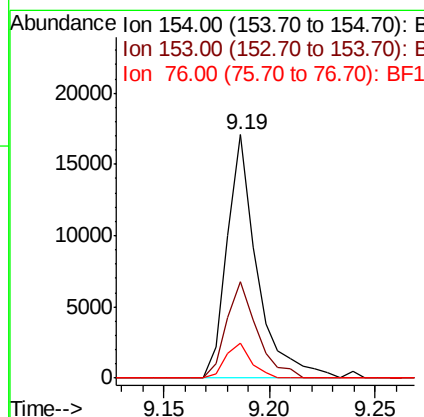
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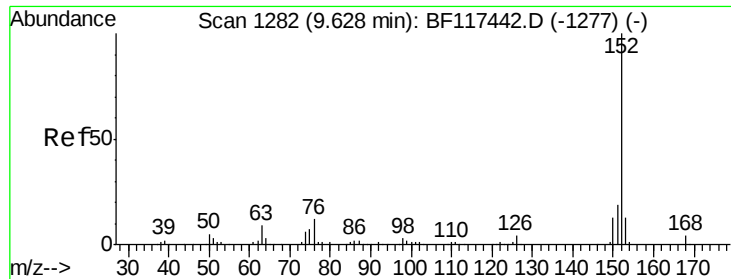
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#46
1,1'-Biphenyl
Concen: 2.996 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	16779		
153	39.4	20.2	60.2	
76	14.2	0.0	32.1	





#49

Acenaphthylene

Concen: 2.944 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Instrument :

BNA_F

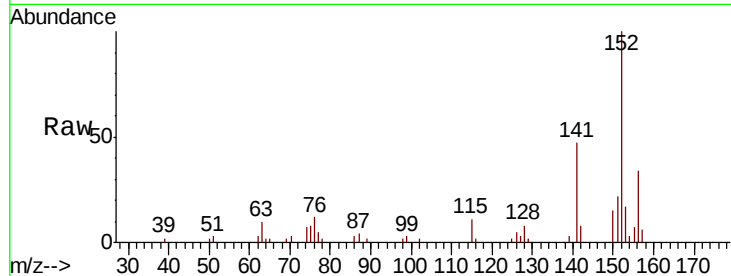
ClientSampleId :

175-70-(0-2.5)

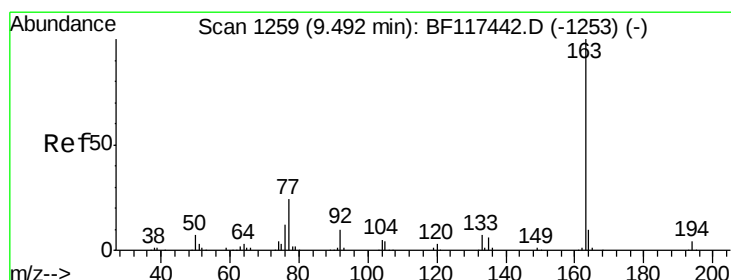
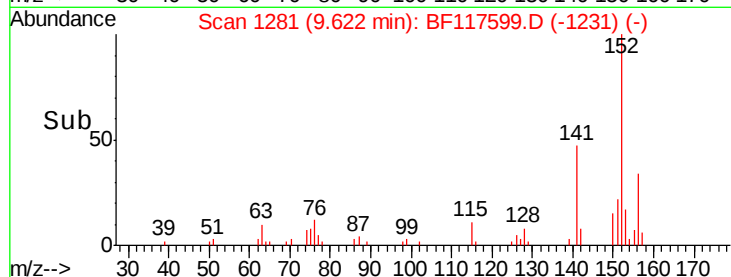
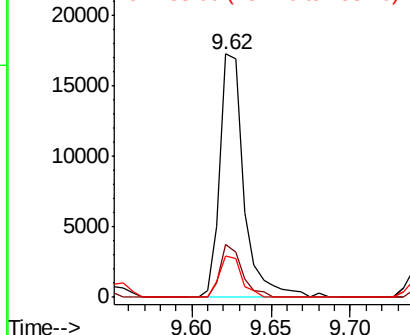
Tot Ion:	152	Resp:	18260
Ion Ratio	Lower	Upper	
152	100		
151	21.8	15.4	23.0
153	16.8	10.3	15.5#

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.594 ng

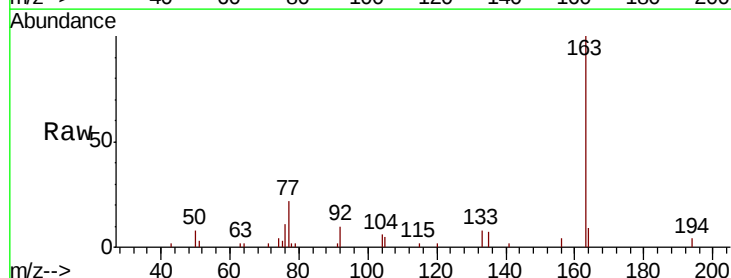
RT: 9.48 min Scan# 1257

Delta R.T. -0.01 min

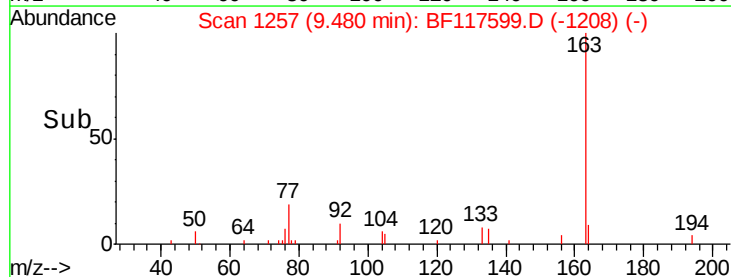
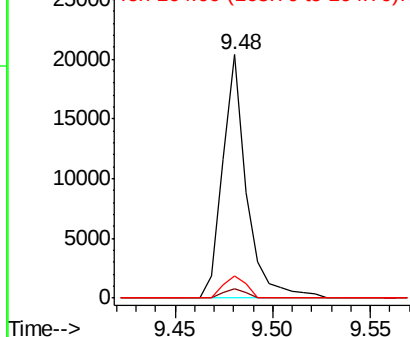
Lab File: BF117599.D

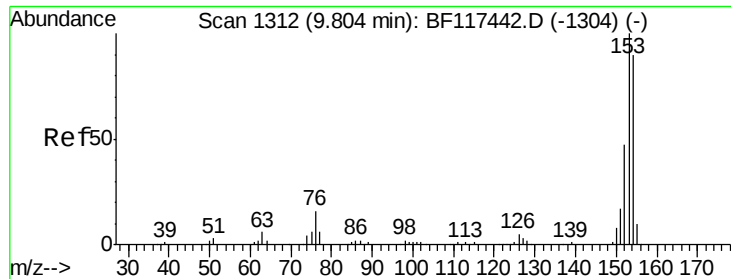
Acq: 29 Oct 2019 18:58

Tgt Ion:	163	Resp:	17332
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.9	4.3
164	8.9	8.2	12.2



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: 22.263 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Instrument :

BNA_F

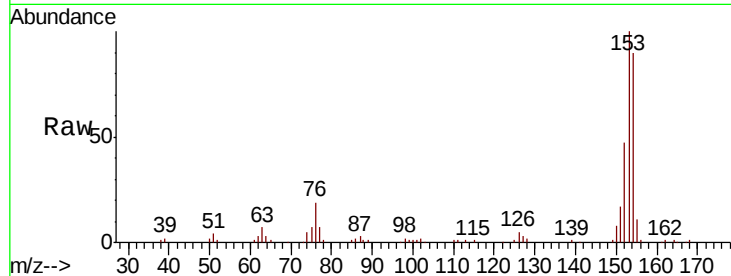
ClientSampleId :

175-70-(0-2.5)

Tot Ion:	154	Resp:	84705
Ion Ratio	Lower	Upper	
154	100		
153	111.2	89.2	133.8
152	52.7	41.8	62.6

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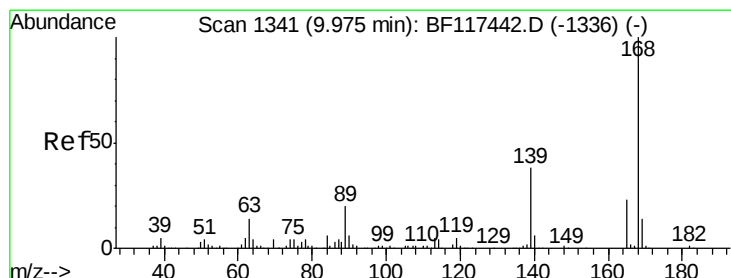
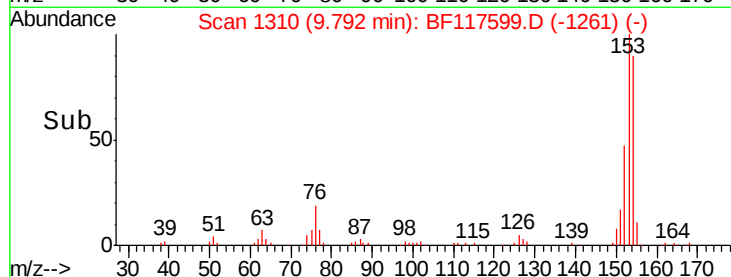
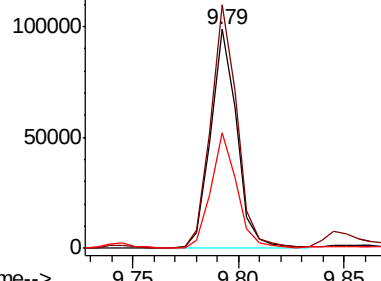


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 21.651 ng

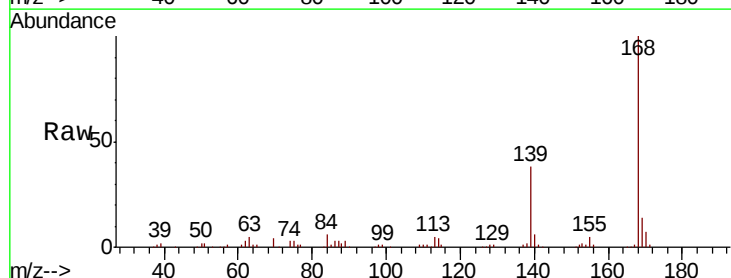
RT: 9.97 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Tgt Ion:	168	Resp:	119351
Ion Ratio	Lower	Upper	
168	100		
139	37.8	31.8	47.6
169	14.0	11.2	16.8

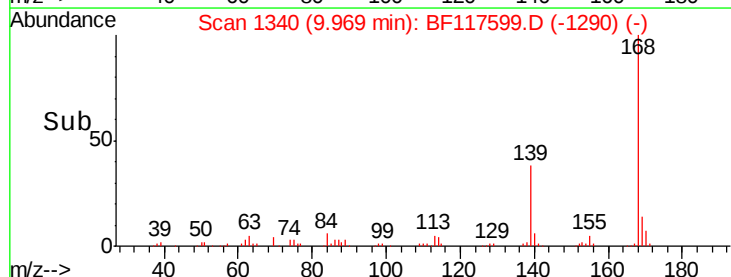
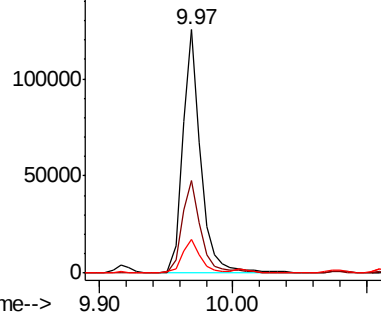


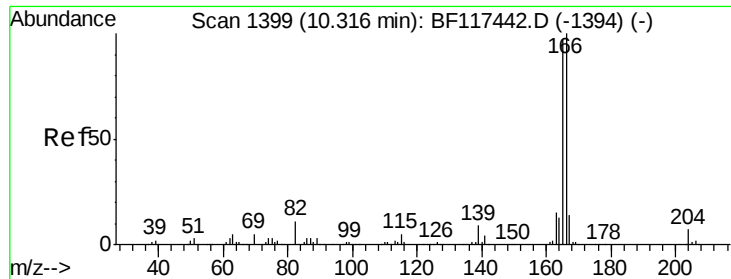
Abundance

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





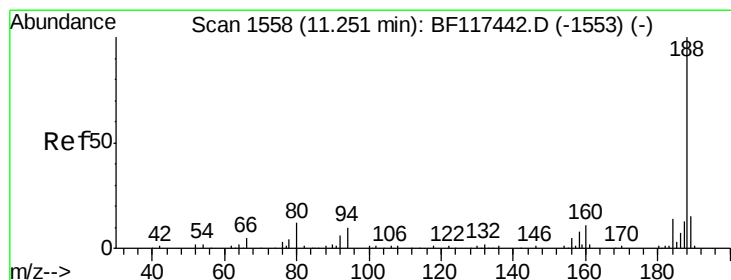
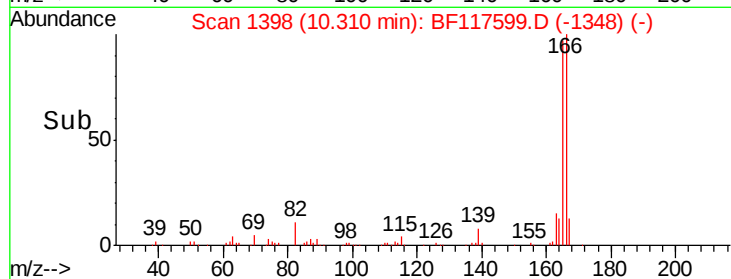
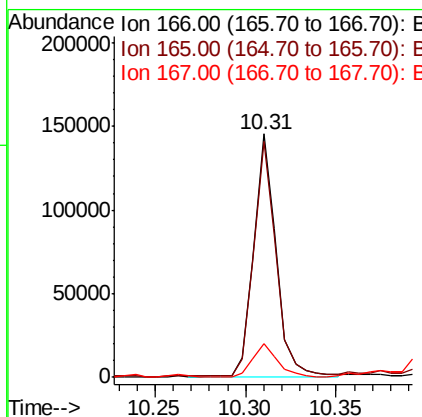
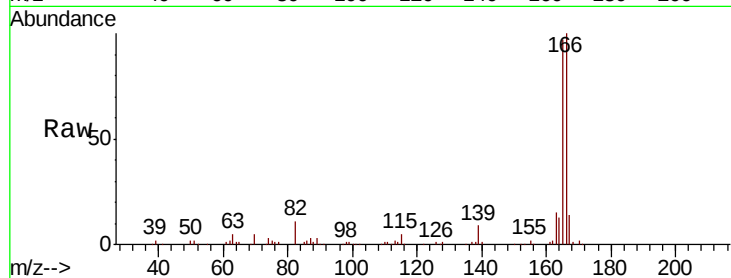
#58
 Fluorene
 Concen: 27.164 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.1	77.6	116.4
167	13.6	11.0	16.4

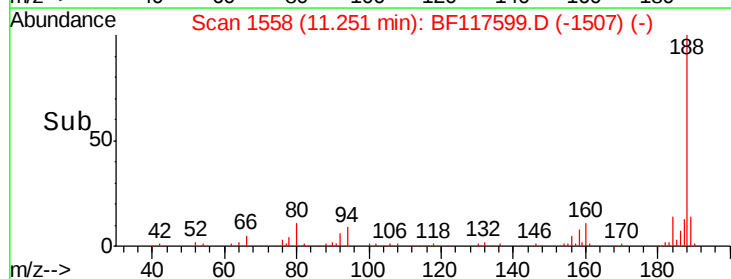
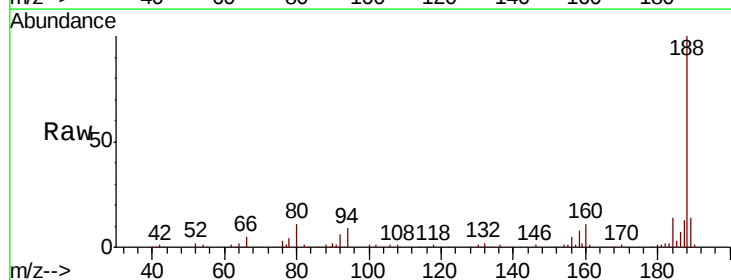
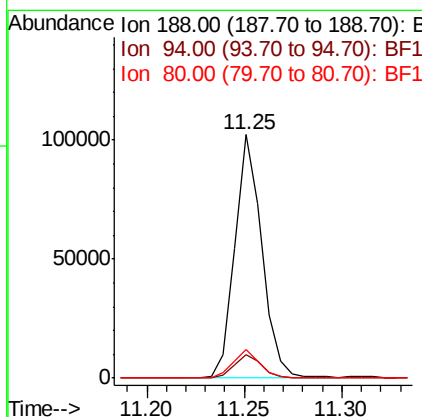
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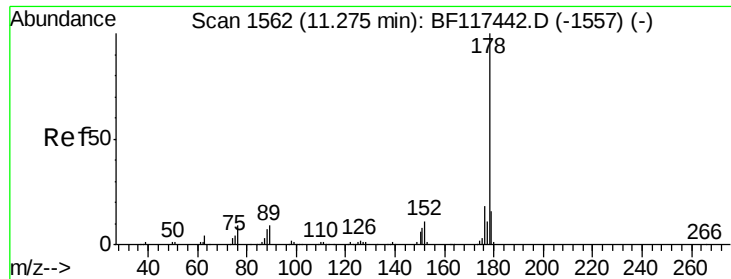
mohammad
 10/30/2019 4:53:17 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.0	12.0
80	11.5	9.5	14.3





#71

Phenanthrene

Concen: 209.721 ng

RT: 11.29 min Scan# 1564

Delta R.T. 0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Instrument :

BNA_F

ClientSampleId :

175-70-(0-2.5)

Tot Ion:178 Resp: 1196352

Ion Ratio Lower Upper

178 100

176 19.2 14.6 22.0

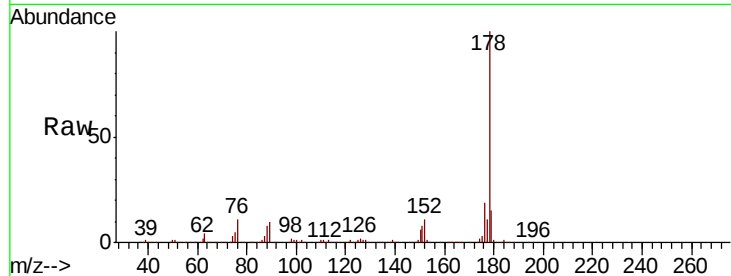
179 15.3 12.6 19.0

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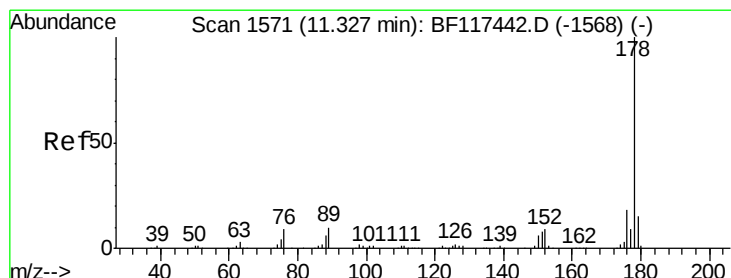
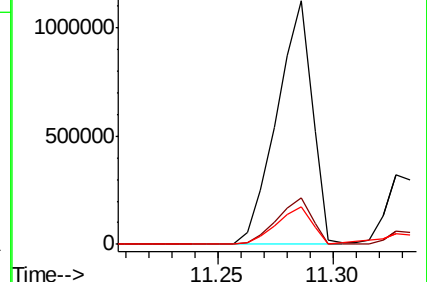
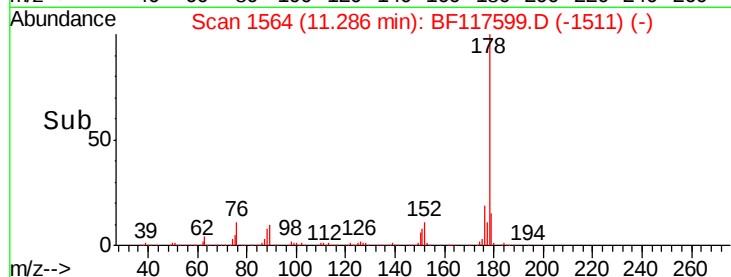
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 50.898 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

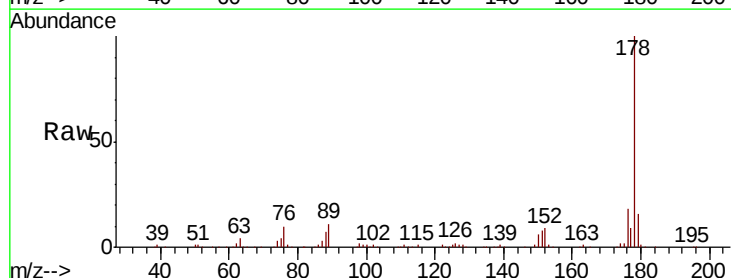
Tgt Ion:178 Resp: 297913

Ion Ratio Lower Upper

178 100

176 18.0 14.7 22.1

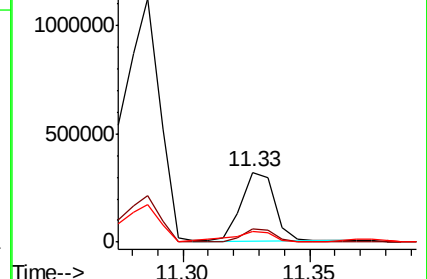
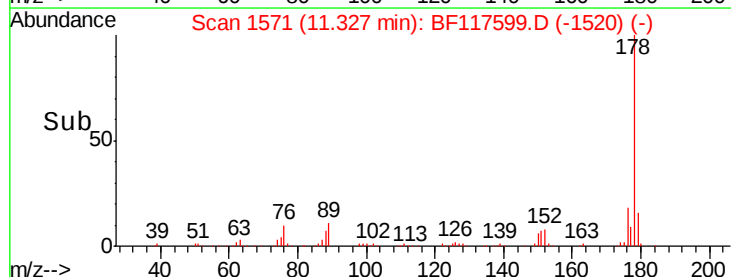
179 16.1 12.2 18.2

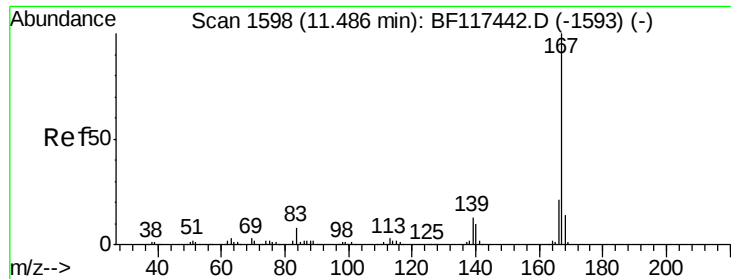


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





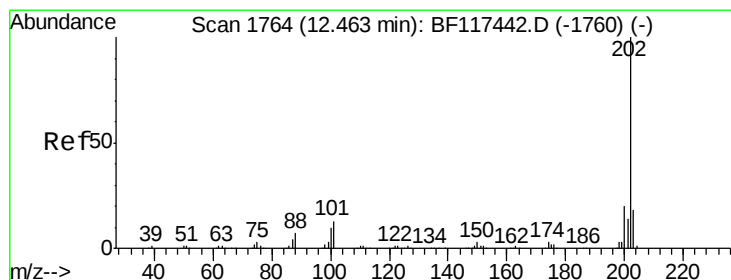
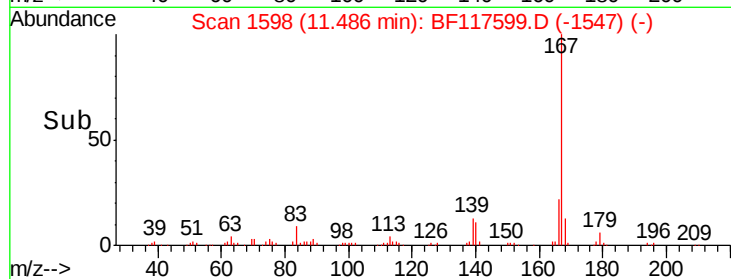
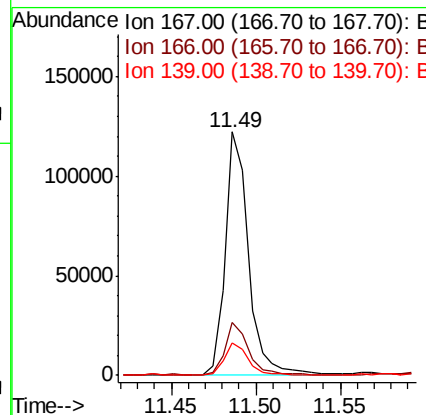
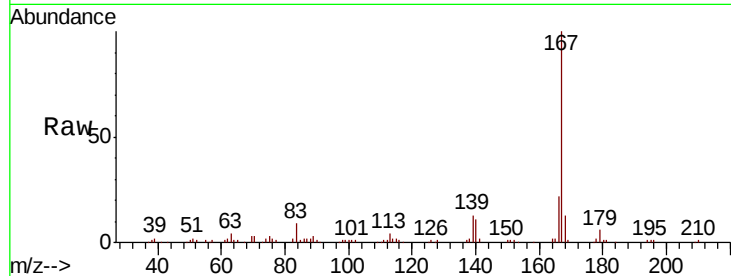
#73
 Carbazole
 Concen: 22.066 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.00 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.0	25.6
139	13.1	10.6	16.0

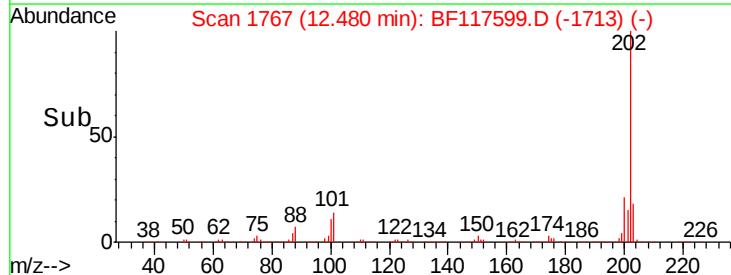
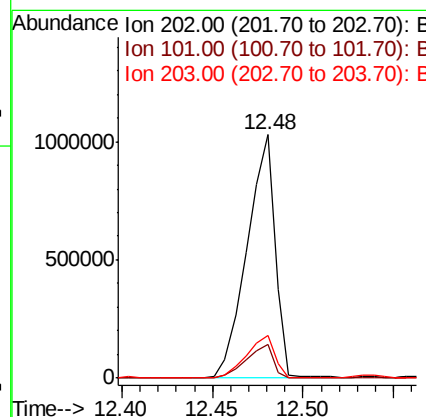
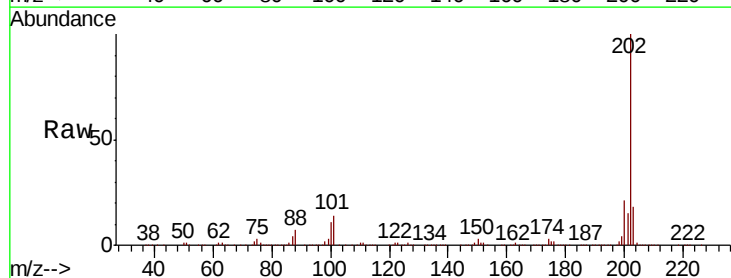
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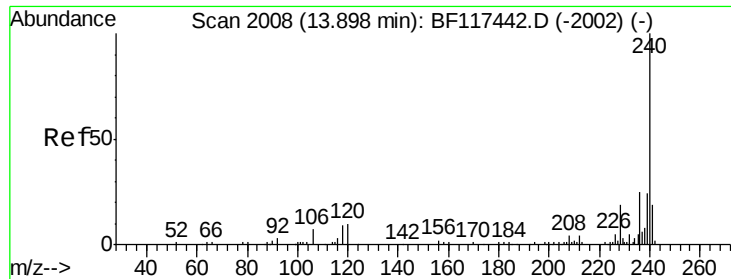
mohammad
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#75
 Fluoranthene
 Concen: 194.647 ng
 RT: 12.48 min Scan# 1767
 Delta R.T. 0.02 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	32.7
203	17.5	0.0	37.6





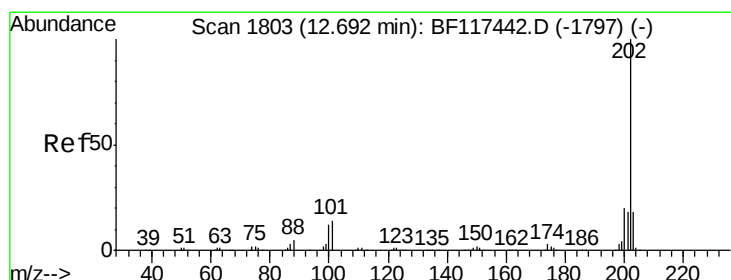
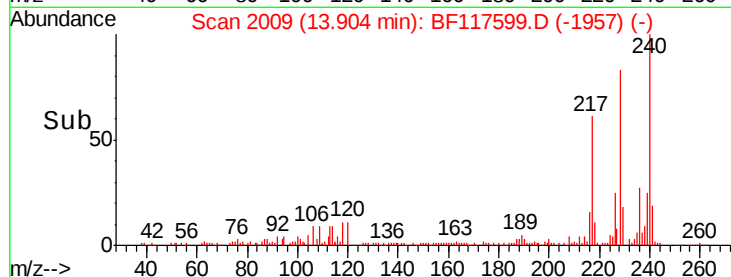
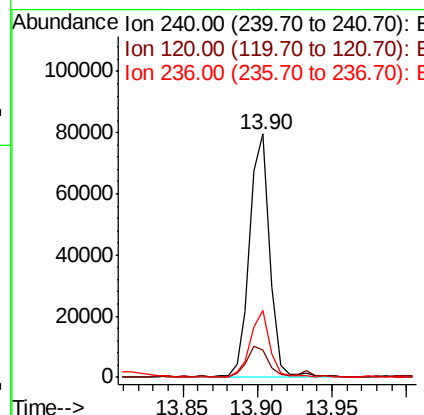
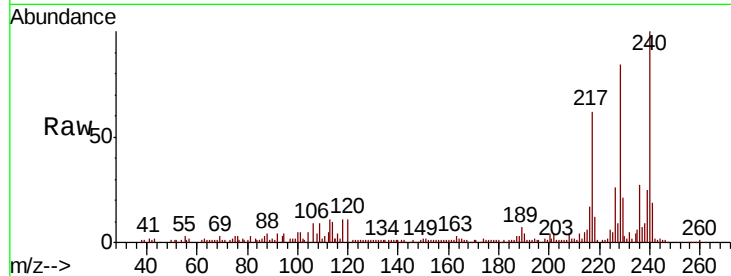
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.4	12.6
236	27.5	20.0	30.0

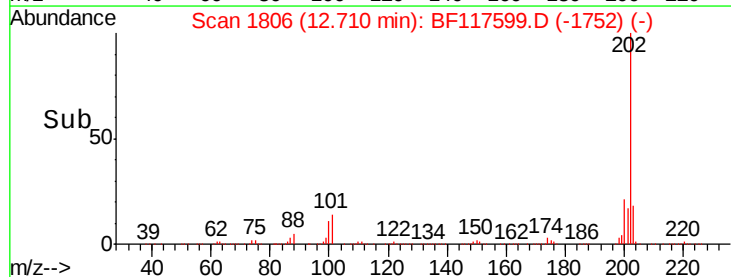
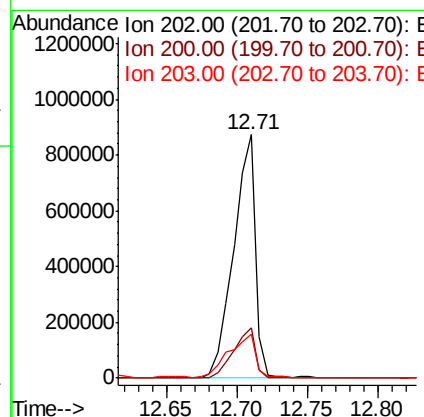
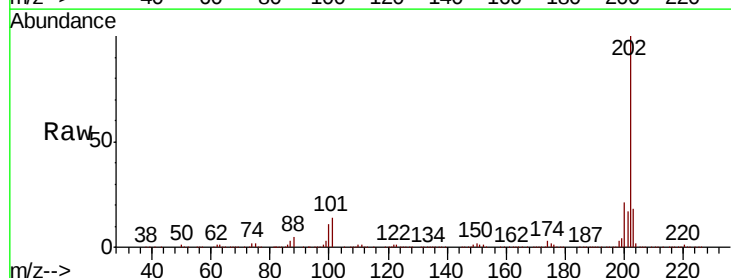
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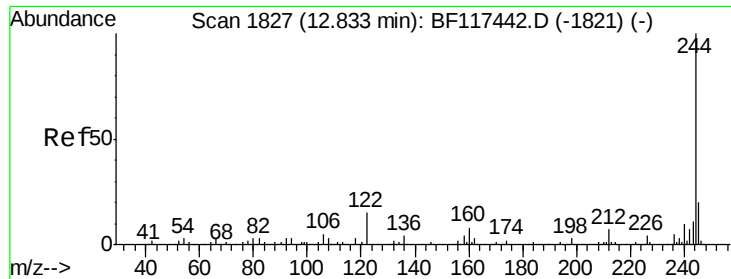
mohammad
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#78
Pyrene
Concen: 144.595 ng
RT: 12.71 min Scan# 1806
Delta R.T. 0.02 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.2	24.2
203	17.8	14.0	21.0





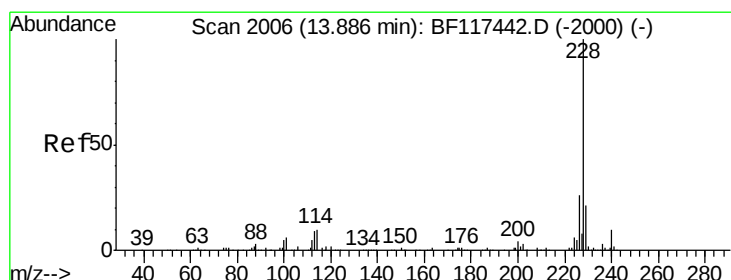
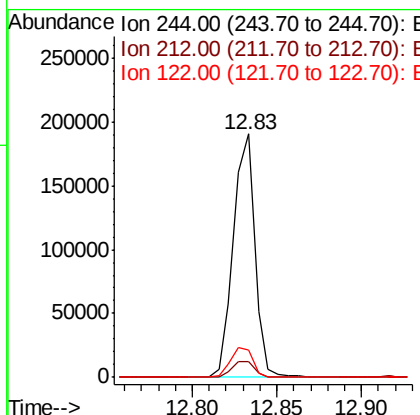
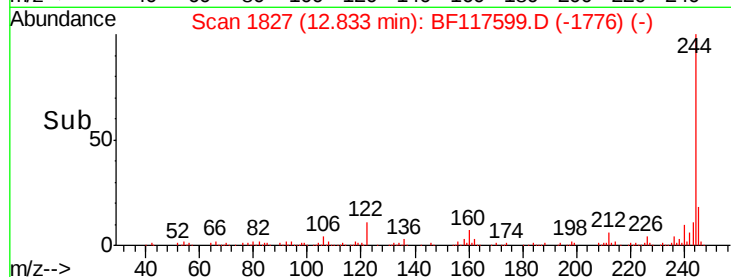
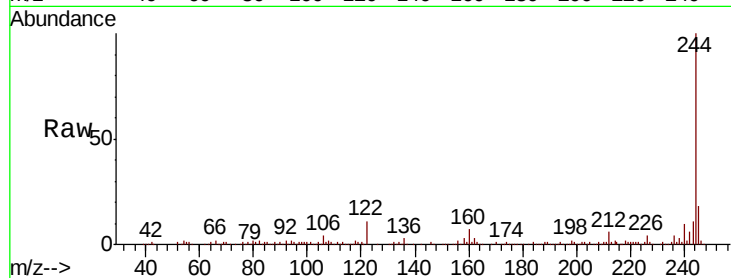
#79
 Terphenyl-d14
 Concen: 36.721 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. -0.00 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.8	8.6
122	11.0	11.8	17.8

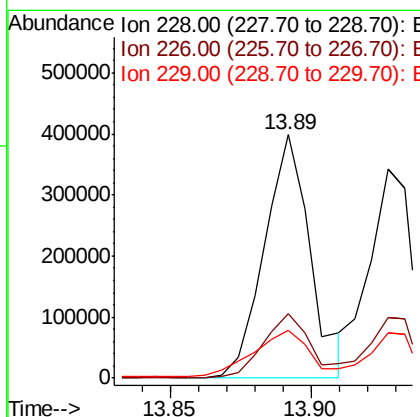
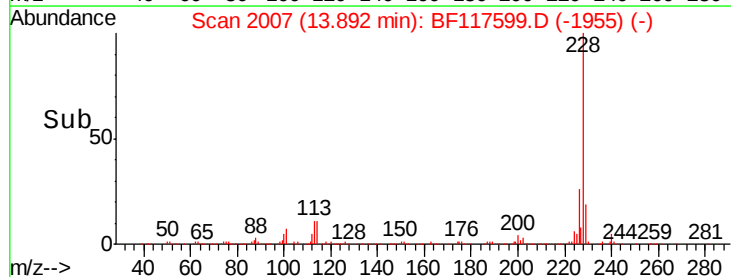
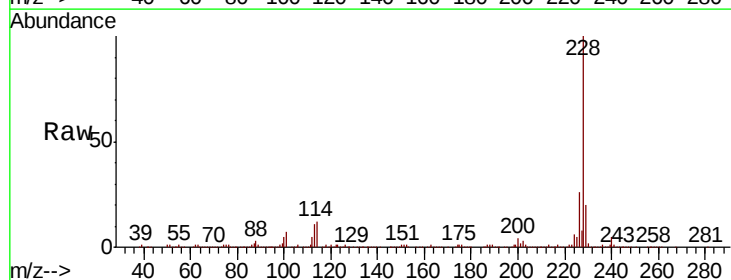
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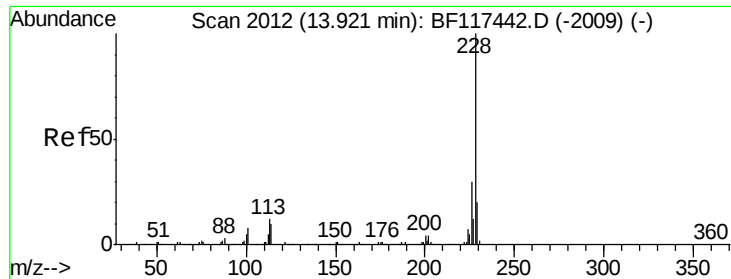
mohammad
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#81
 Benzo(a)anthracene
 Concen: 87.903 ng
 RT: 13.89 min Scan# 2007
 Delta R.T. 0.01 min
 Lab File: BF117599.D
 Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.0	31.4
229	19.7	16.4	24.6





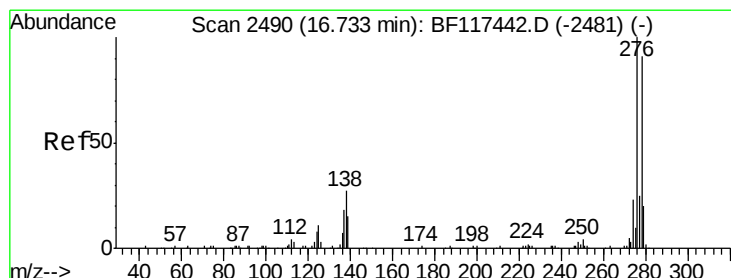
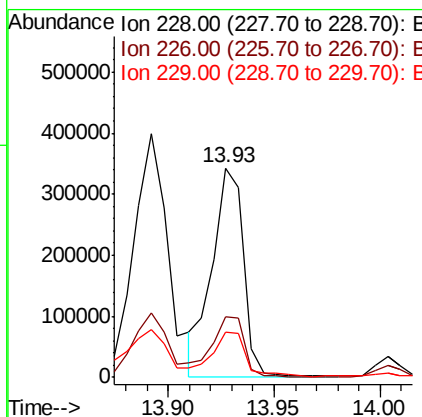
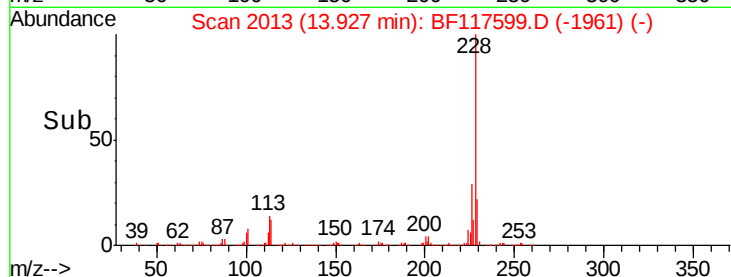
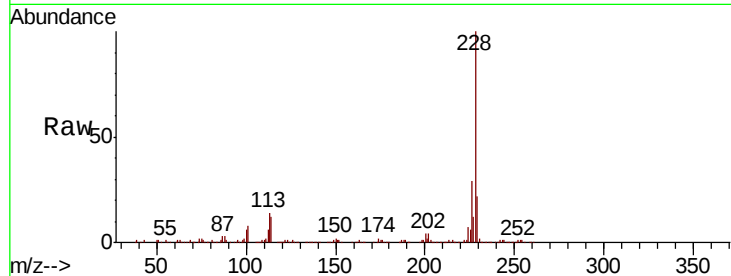
#83
Chrysene
Concen: 71.163 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion:	228	Resp:	353141
Ion Ratio	Lower	Upper	
228	100		
226	28.7	23.9	35.9
229	21.9	15.8	23.6

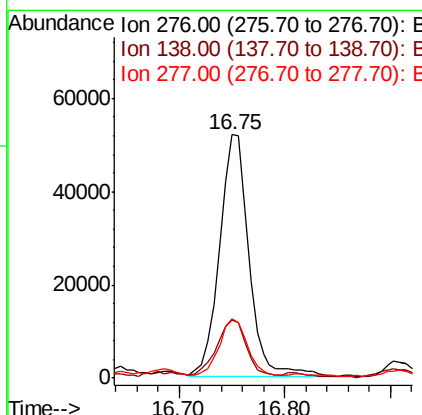
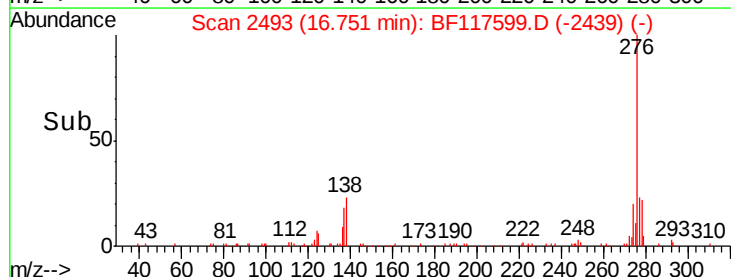
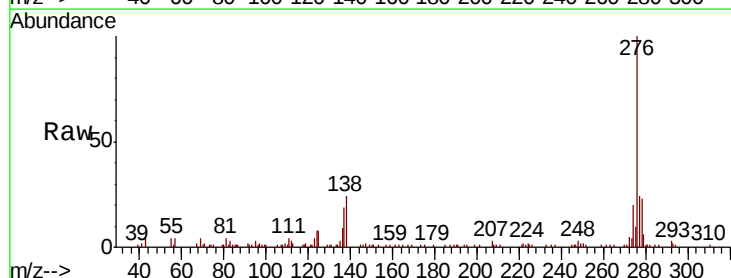
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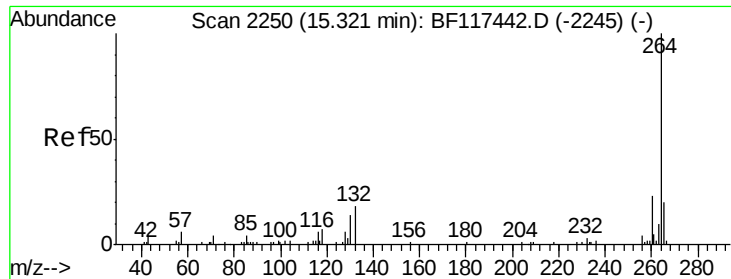
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 26.912 ng
RT: 16.75 min Scan# 2493
Delta R.T. 0.02 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion:	276	Resp:	99710
Ion Ratio	Lower	Upper	
276	100		
138	23.4	21.8	32.8
277	22.9	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.33 min Scan# 2252

Delta R.T. 0.01 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Instrument :

BNA_F

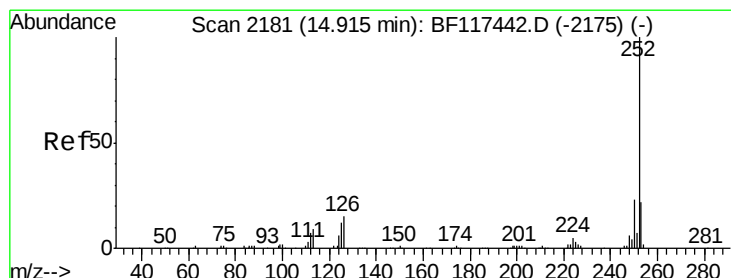
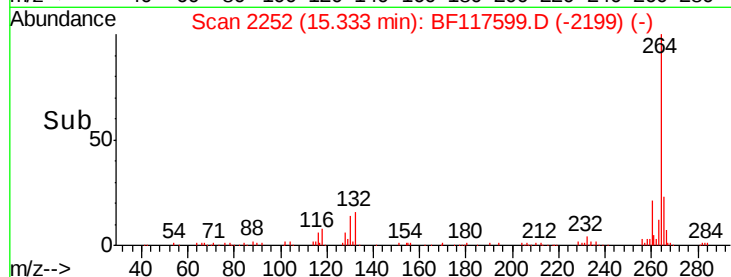
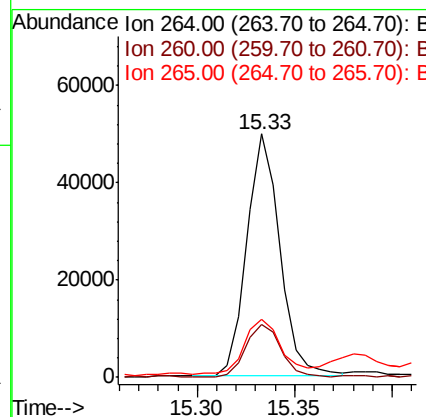
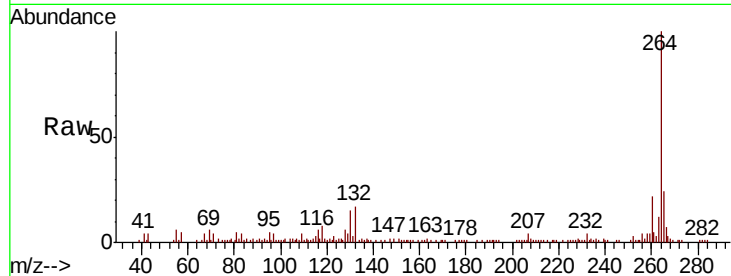
ClientSampleId :

175-70-(0-2.5)

Tot Ion:	264	Resp:	58394
Ion Ratio	Lower	Upper	
264	100		
260	21.9	18.4	27.6
265	23.9	16.1	24.1

Manual Integrations
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#88

Benzo(b)fluoranthene

Concen: 90.806 ng m

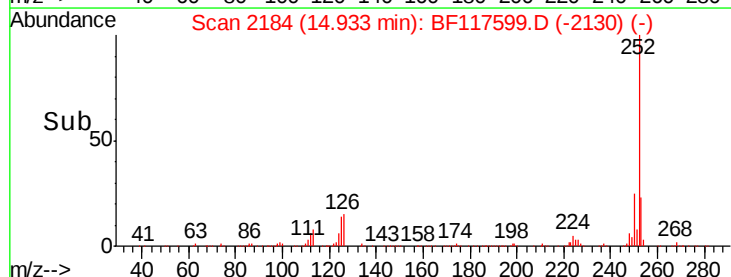
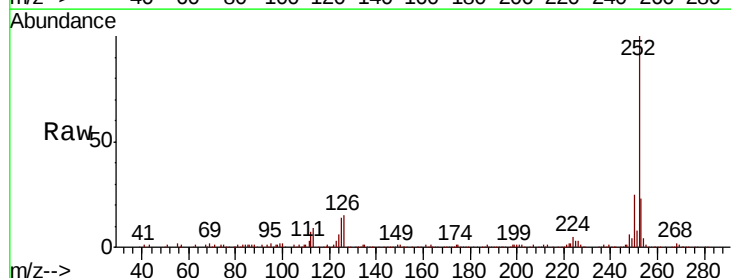
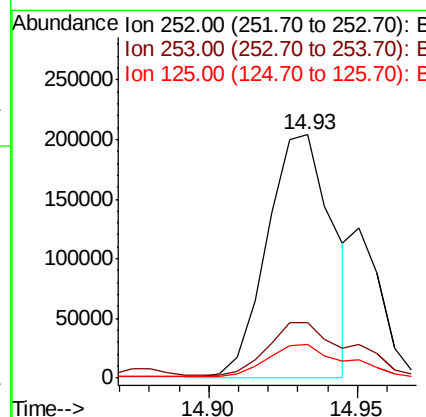
RT: 14.93 min Scan# 2184

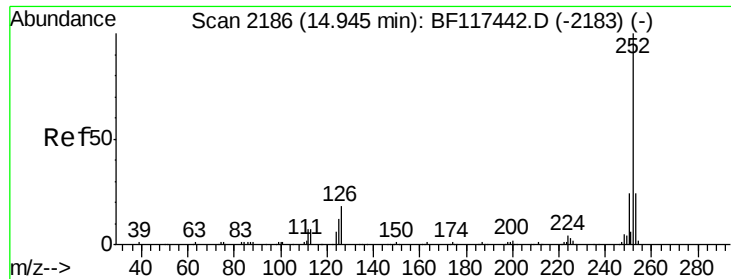
Delta R.T. 0.02 min

Lab File: BF117599.D

Acq: 29 Oct 2019 18:58

Tgt Ion:	252	Resp:	313120
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.8	26.6
125	14.0	9.9	14.9





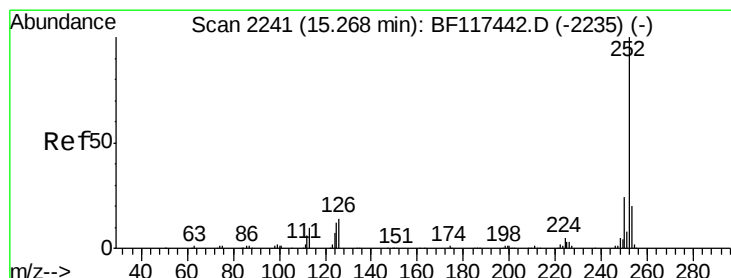
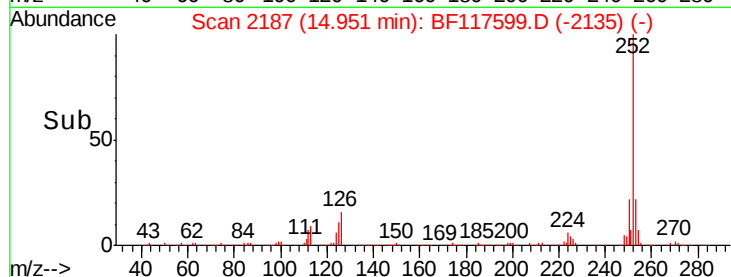
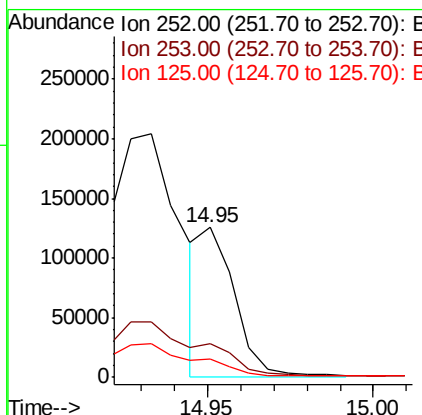
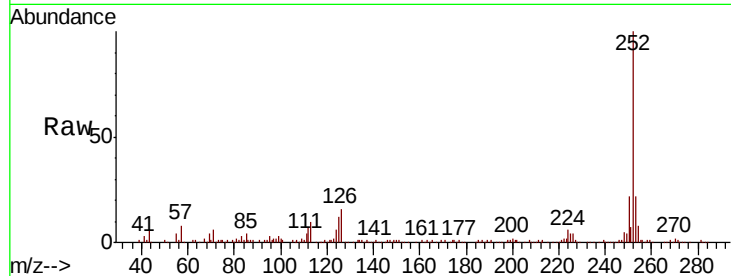
#89
Benzo(k)fluoranthene
Concen: 25.541 ng m
RT: 14.95 min Scan# 2187
Delta R.T. 0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.0	27.0
125	12.0	8.9	13.3

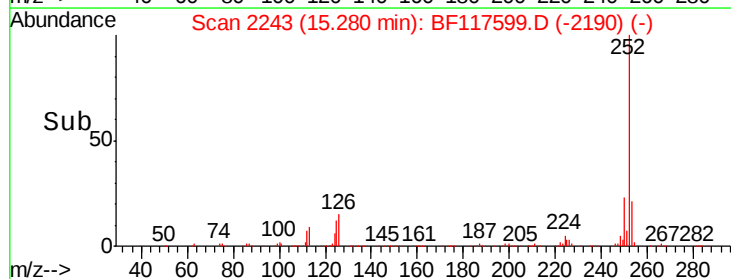
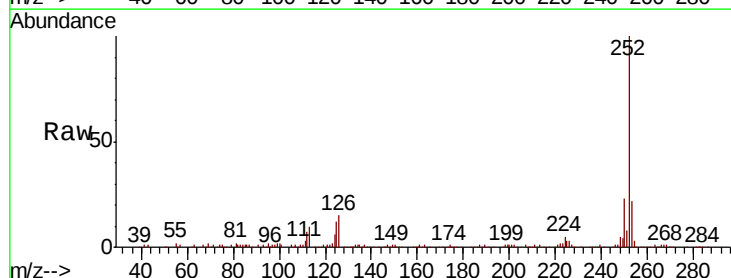
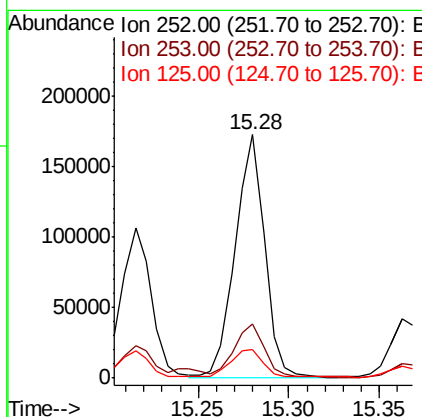
Manual Integrations
APPROVED

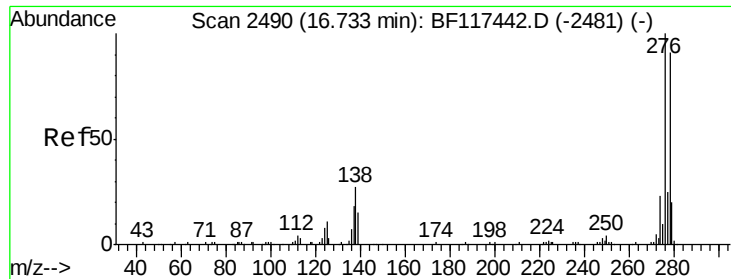
mohammad
10/30/2019 4:53:17 PM



#90
Benzo(a)pyrene
Concen: 62.079 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	16.3	24.5
125	12.0	9.2	13.8





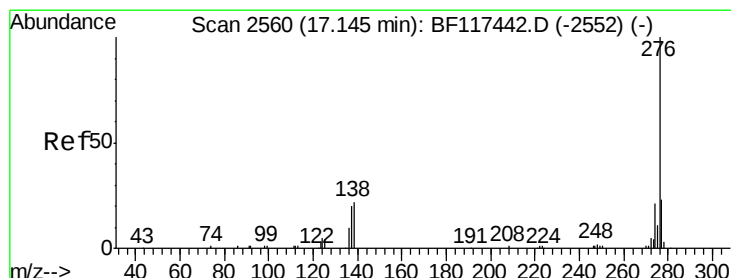
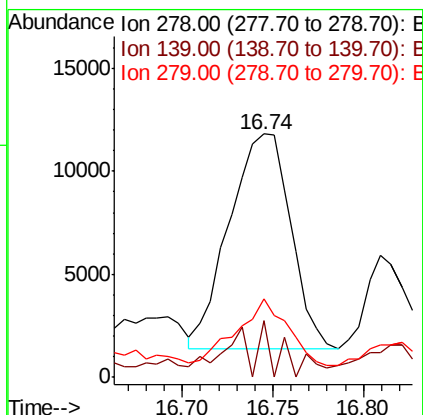
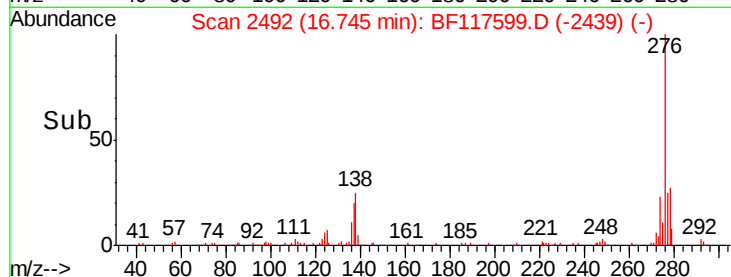
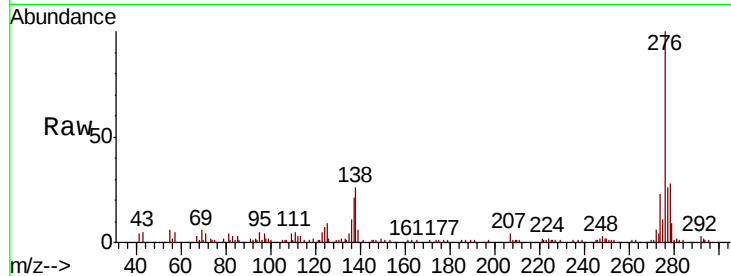
#91
Dibenzo(a,h)anthracene
Concen: 9.111 ng
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

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

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.1	13.4	20.0#
279	32.2	17.8	26.6#

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:17 PM



#92
Benzo(g,h,i)perylene
Concen: 34.439 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.04 min
Lab File: BF117599.D
Acq: 29 Oct 2019 18:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.4	27.6
138	23.8	17.8	26.6

