

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
 Data File : BF117000.D
 Acq On : 12 Sep 2019 18:57
 Operator : HP/JU
 Sample : K4850-02 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(6)

Manual Integrations
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 9/16/2019 8:59:44 AM

Quant Time: Sep 13 08:20:05 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 12 08:24:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	75194	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	307525	20.00	ng	0.00
39) Acenaphthene-d10	9.86	164	156573	20.00	ng	0.00
64) Phenanthrene-d10	11.34	188	219618	20.00	ng	0.00
76) Chrysene-d12	14.00	240	147108	20.00	ng	0.03
87) Perylene-d12	15.45	264	152282	20.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	215561	46.44	ng	0.00
7) Phenol-d6	6.45	99	307374	50.43	ng	-0.01
23) Nitrobenzene-d5	7.38	82	192384	35.71	ng	-0.01
42) 2,4,6-Tribromophenol	10.65	330	55649	53.16	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	326414	35.17	ng	0.00
79) Terphenyl-d14	12.93	244	246472	30.99	ng	0.00
Target Compounds						
31) Naphthalene	8.13	128	684079	46.781	ng	Qvalue 100
37) 2-Methylnaphthalene	8.82	142	242786	24.953	ng	98
38) 1-Methylnaphthalene	8.92	142	499599	54.395	ng	98
46) 1,1'-Biphenyl	9.27	154	47846	4.027	ng	100
49) Acenaphthylene	9.72	152	730709	51.369	ng	98
50) Dimethylphthalate	9.57	163	59767	5.529	ng	# 94
52) Acenaphthene	9.89	154	250567	28.669	ng	98
55) Dibenzofuran	10.06	168	43174	3.504	ng	# 34
58) Fluorene	10.40	166	392668	41.826	ng	98
71) Phenanthrene	11.37	178	1340386	109.640	ng	99
72) Anthracene	11.42	178	576866	46.875	ng	99
75) Fluoranthene	12.58	202	2536086	211.085	ng	96
78) Pylene	12.82	202	4402243	336.642	ng	95
81) Benzo(a)anthracene	13.99	228	1995058	214.282	ng	# 86
83) Chrysene	14.03	228	1852472	193.126	ng	93
86) Indeno(1,2,3-cd)pyrene	16.90	276	439875	57.093	ng	96
88) Benzo(b)fluoranthene	15.04	252	1460955m	158.683	ng	
89) Benzo(k)fluoranthene	15.06	252	286023m	34.073	ng	
90) Benzo(a)pyrene	15.40	252	1239410	154.733	ng	98
91) Dibenz(a,h)anthracene	16.90	278	170204m	24.276	ng	
92) Benzo(g,h,i)perylene	17.34	276	497371	69.557	ng	98

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

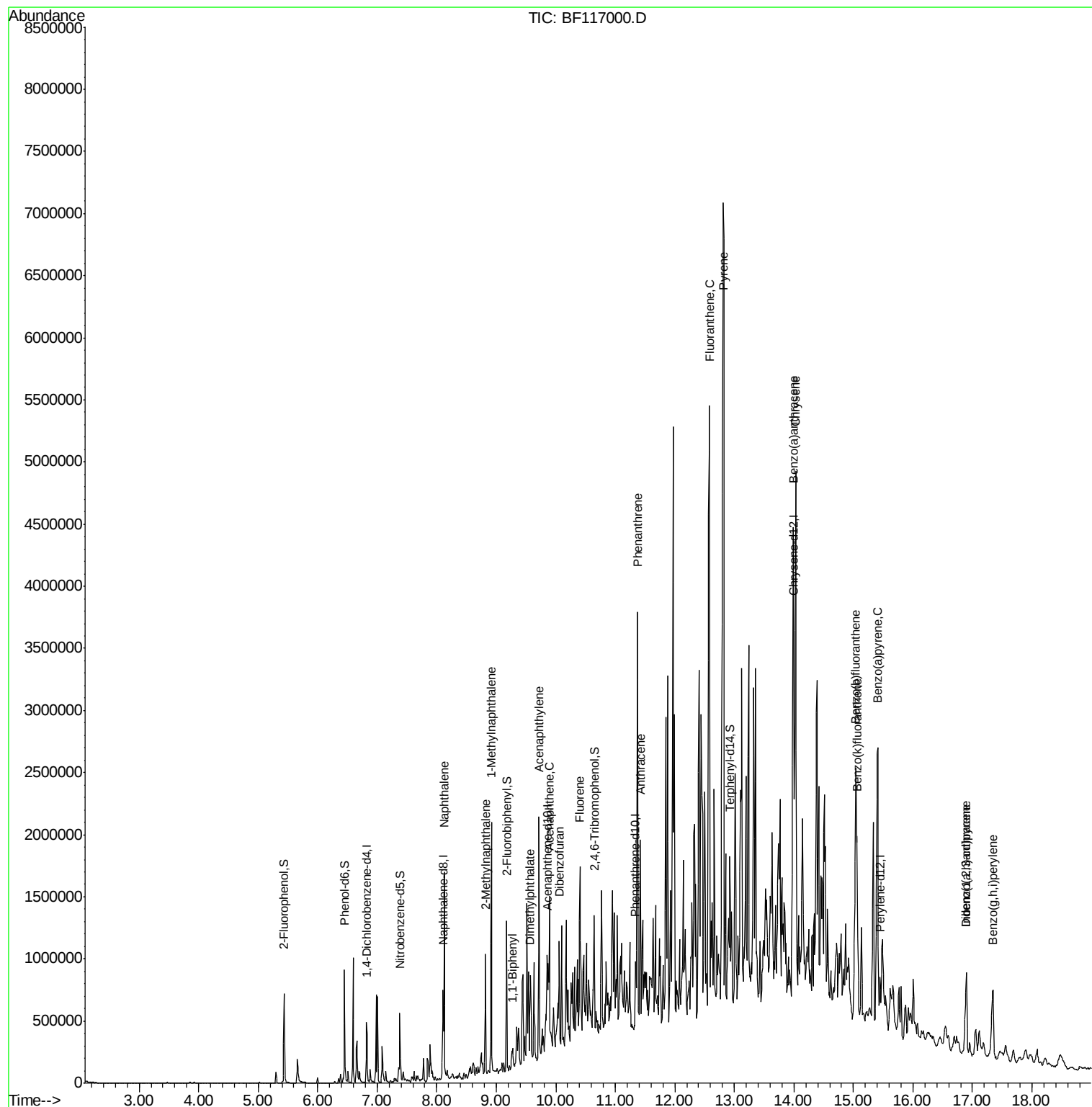
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
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Acq On : 12 Sep 2019 18:57
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ClientSampled :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 12 08:24:39 2019
Response via : Initial Calibration





#1

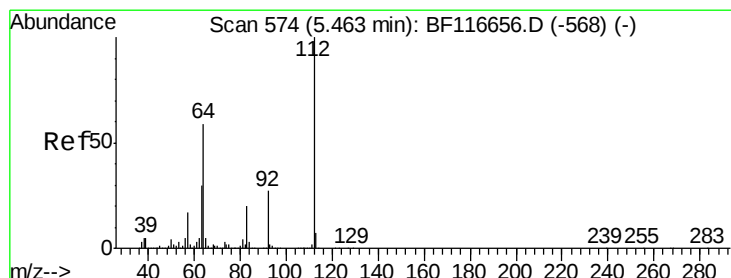
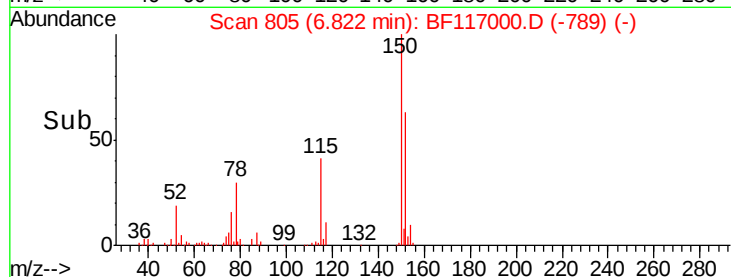
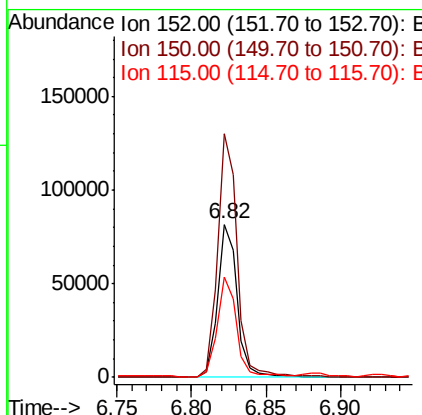
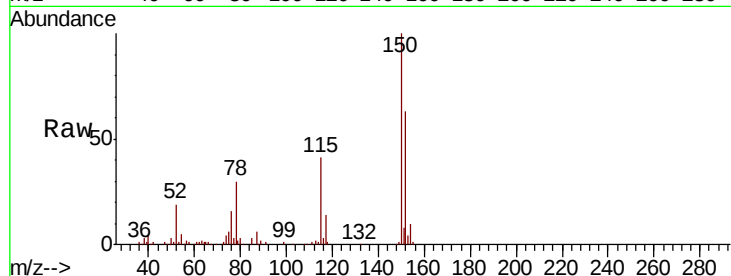
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	126.2	189.2
115	65.6	50.2	75.2

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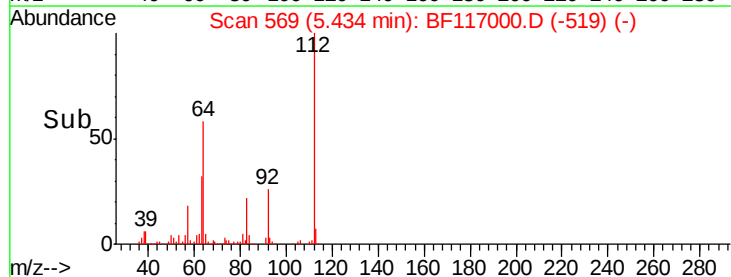
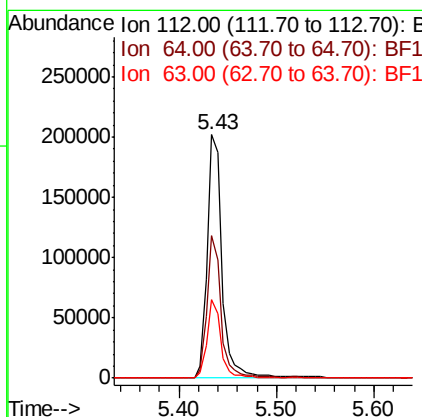
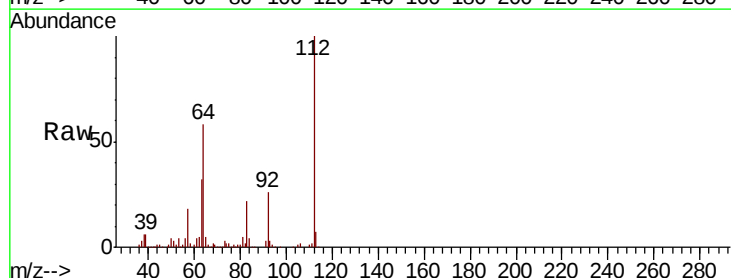
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#5

2-Fluorophenol
Concen: 46.443 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.1	70.7
63	32.1	25.4	38.0





#7

Phenol-d6

Concen: 50.433 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Instrument :

BNA_F

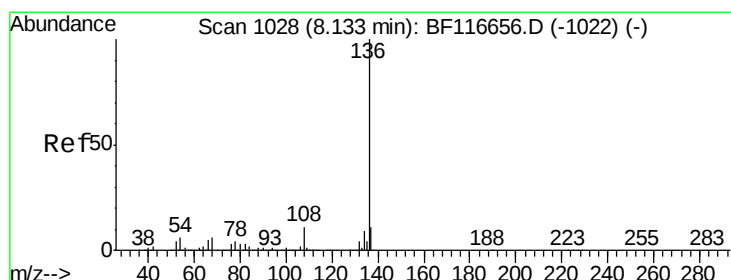
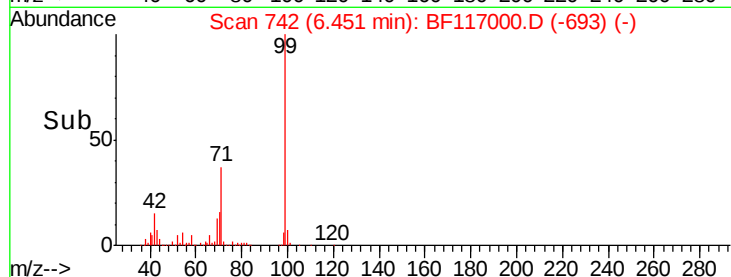
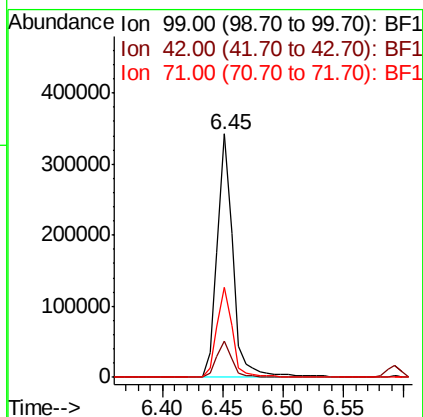
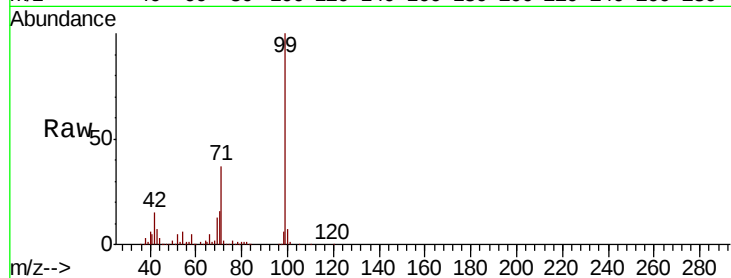
ClientSampleId :

AOC-7-(6)

Tot Ion:	99	Resp:	307374
Ion Ratio	Lower	Upper	
99	100		
42	14.9	12.0	18.0
71	37.1	29.7	44.5

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#21

Naphthalene-d8

Concen: 20.000 ng

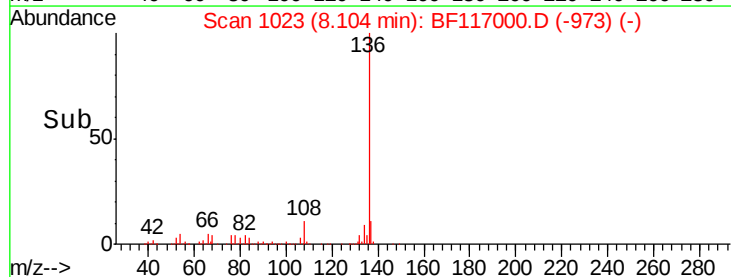
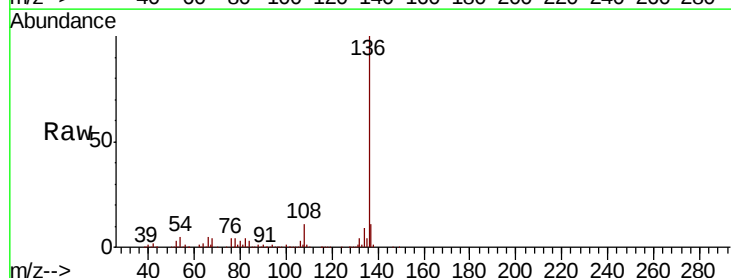
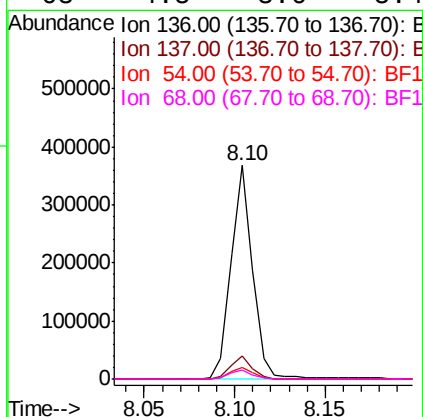
RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Tgt Ion:	136	Resp:	307525
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.5	12.7
54	5.3	3.8	5.8
68	4.5	3.6	5.4





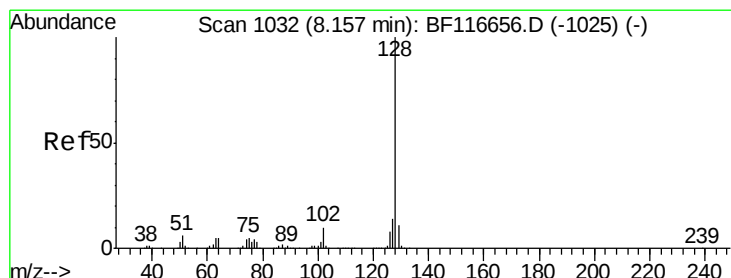
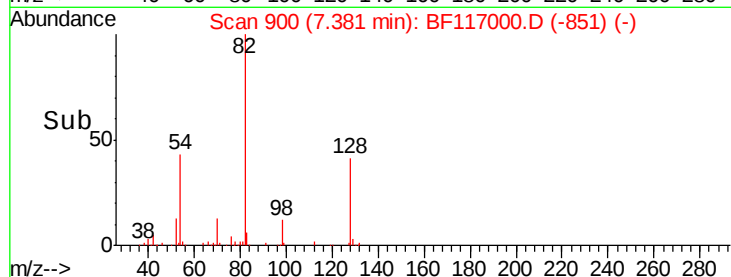
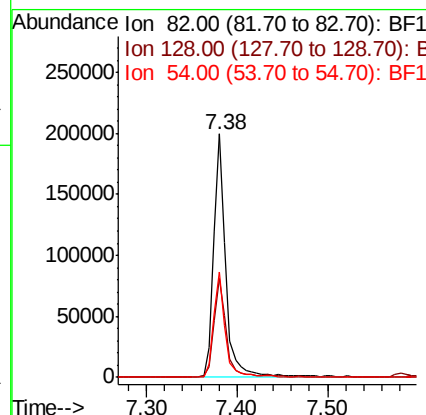
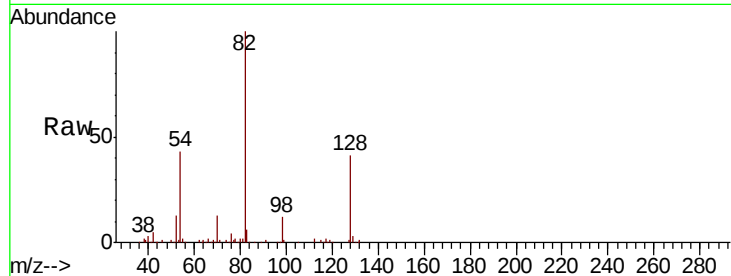
#23
 Nitrobenzene-d5
 Concen: 35.713 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF117000.D
 Acq: 12 Sep 2019 18:57

Instrument :
 BNA_F
 ClientSampled :
 AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.8	35.0	52.4
54	43.5	32.6	48.8

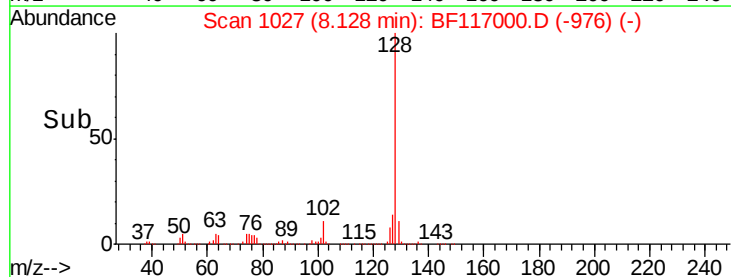
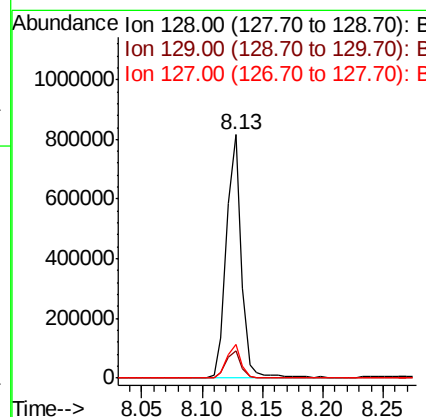
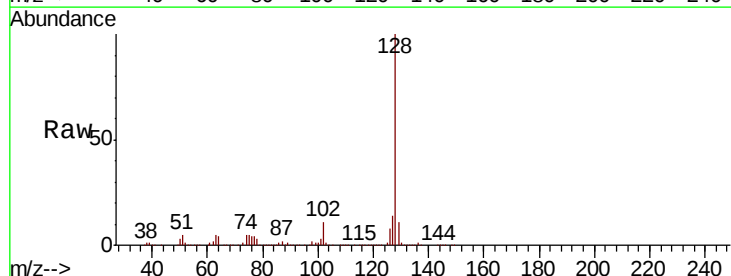
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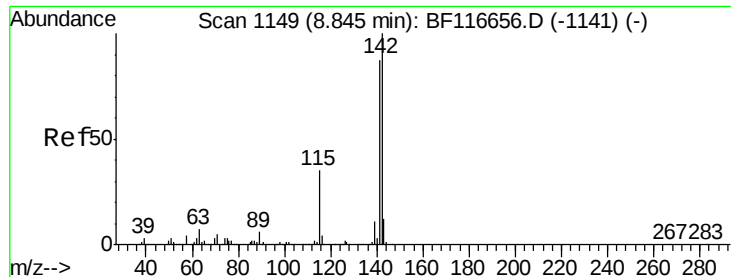
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#31
 Naphthalene
 Concen: 46.781 ng
 RT: 8.13 min Scan# 1027
 Delta R.T. 0.00 min
 Lab File: BF117000.D
 Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.6	10.6	16.0





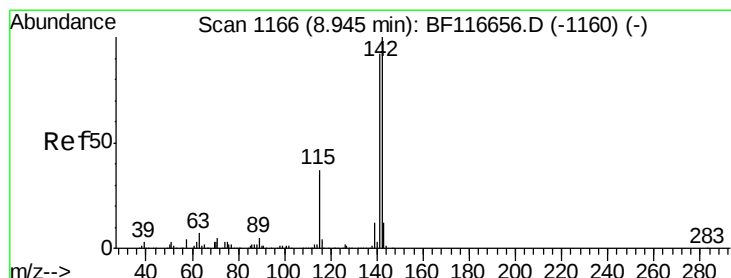
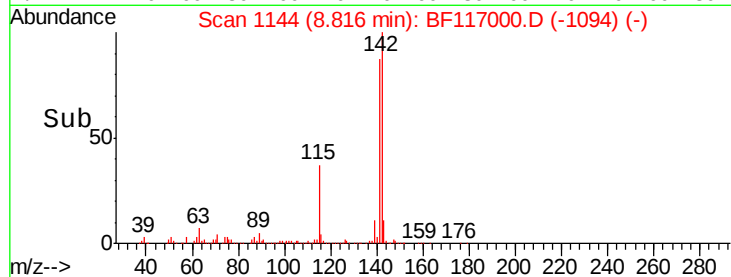
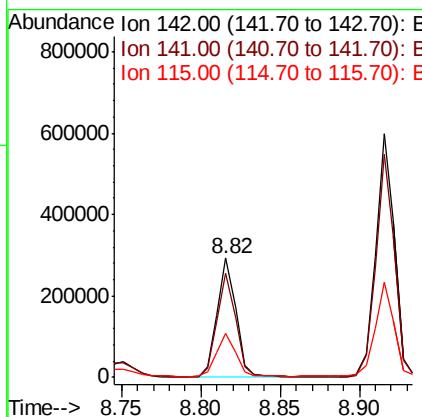
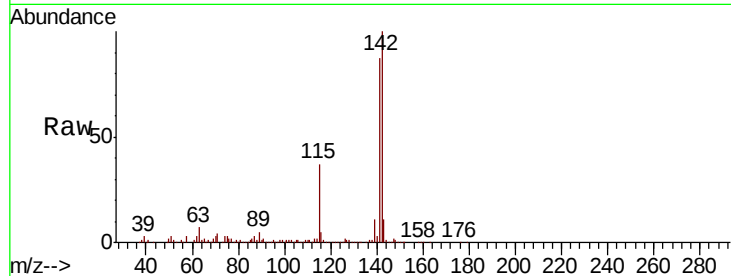
#37
2-Methylnaphthalene
Concen: 24.953 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.2	70.5	105.7
115	37.3	27.7	41.5

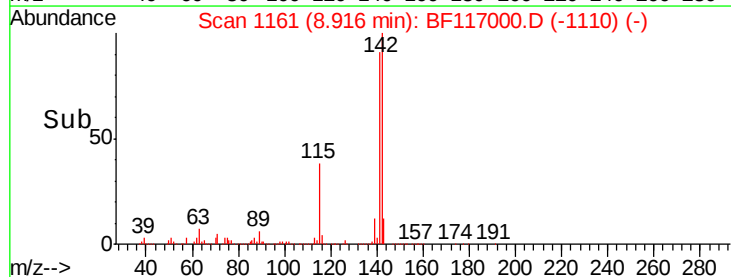
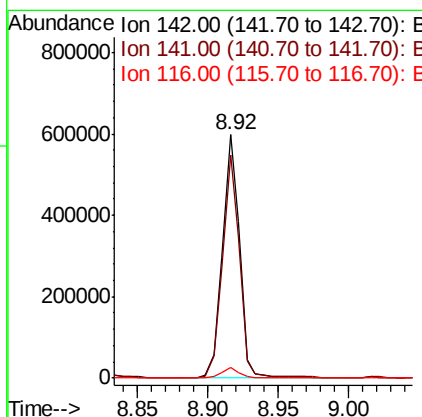
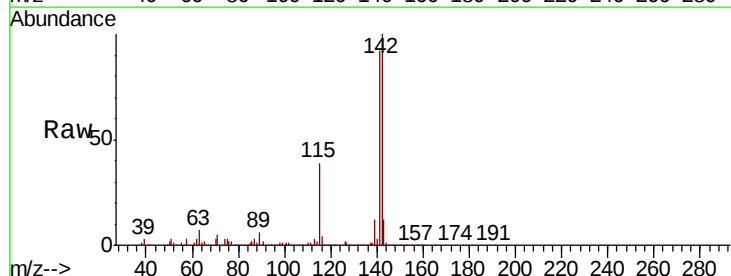
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#38
1-Methylnaphthalene
Concen: 54.395 ng
RT: 8.92 min Scan# 1161
Delta R.T. 0.00 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	71.9	107.9
116	4.4	3.2	4.8





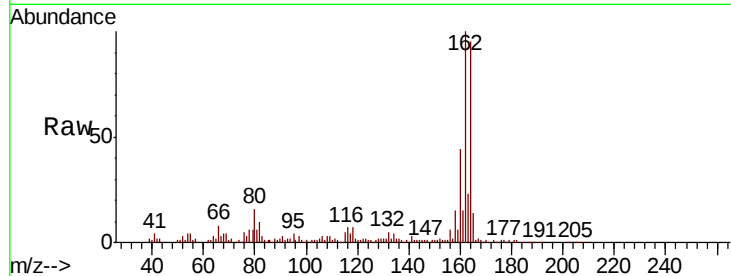
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1321
Delta R.T. 0.00 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

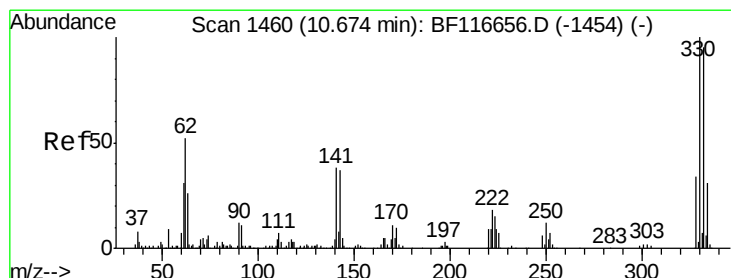
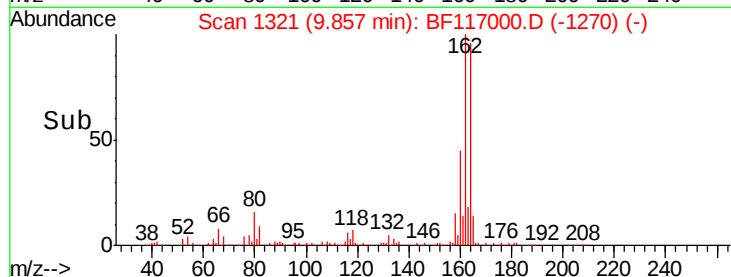
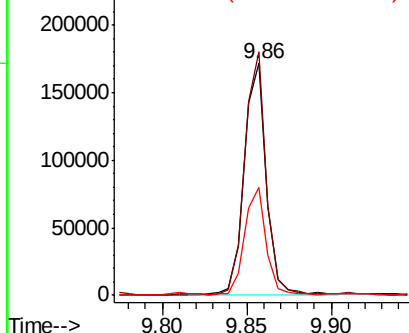
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.1	81.8	122.6	
160	46.4	35.7	53.5	

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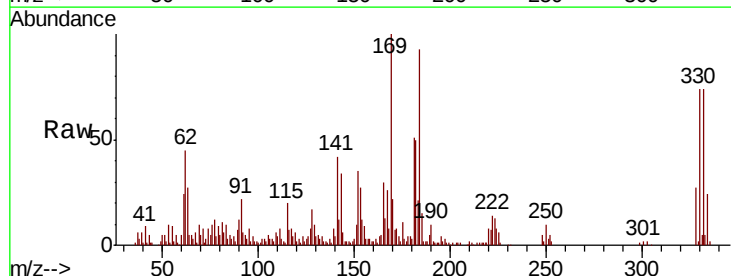


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

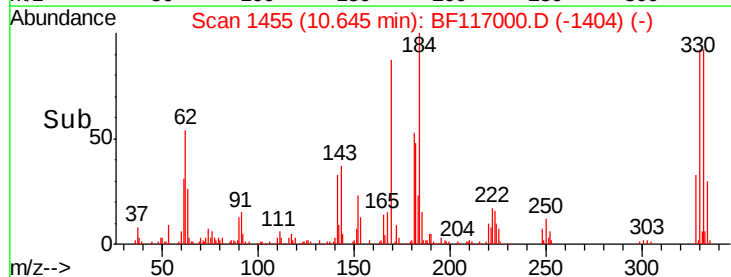
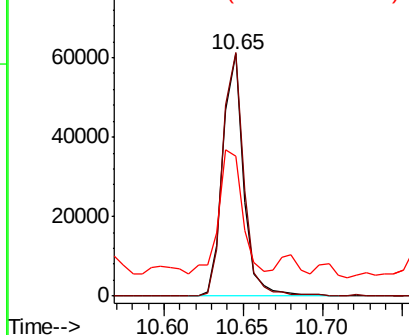


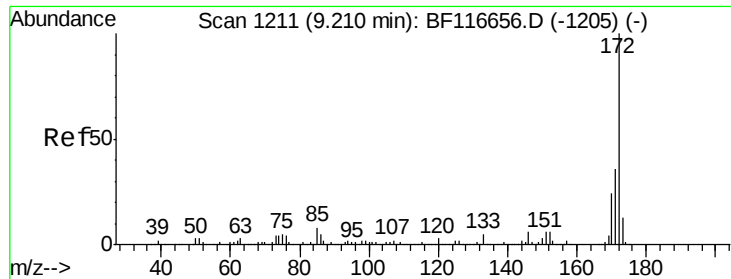
#42
2,4,6-Tribromophenol
Concen: 53.165 ng
RT: 10.65 min Scan# 1455
Delta R.T. 0.00 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	101.7	75.9	113.9	
141	57.4	35.6	53.4	



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





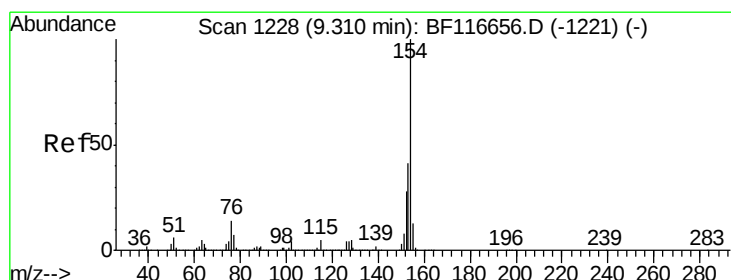
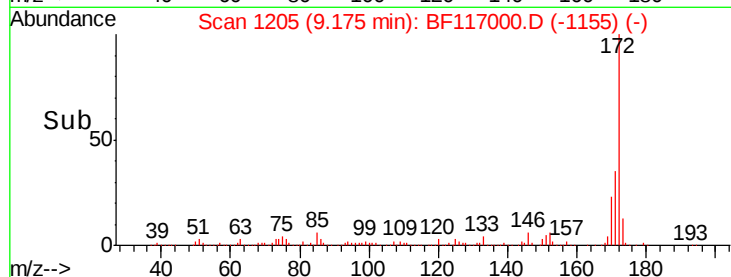
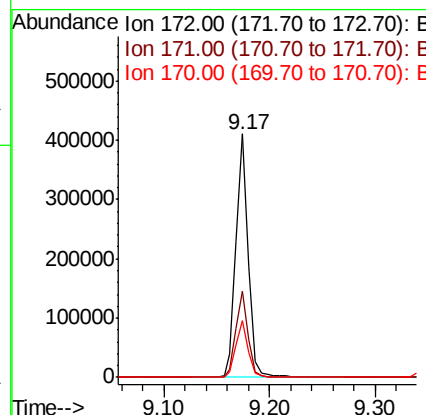
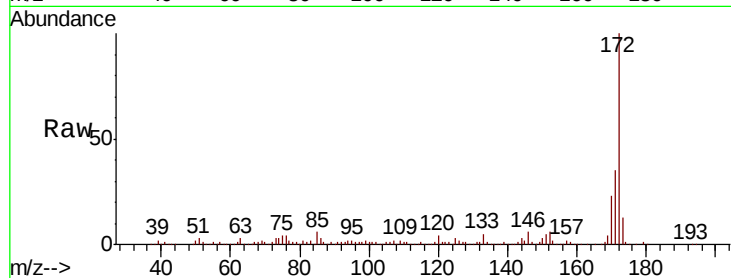
#45
2-Fluorobiphenyl
Concen: 35.167 ng
RT: 9.17 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampled :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.1	43.7
170	23.4	19.2	28.8

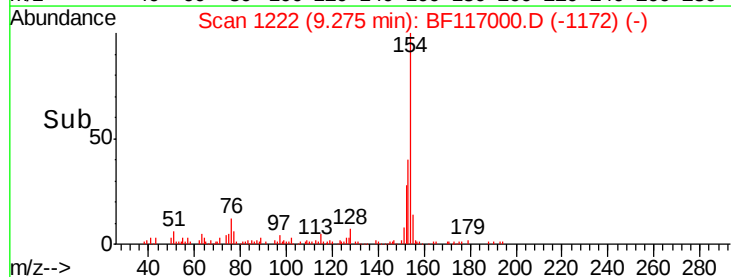
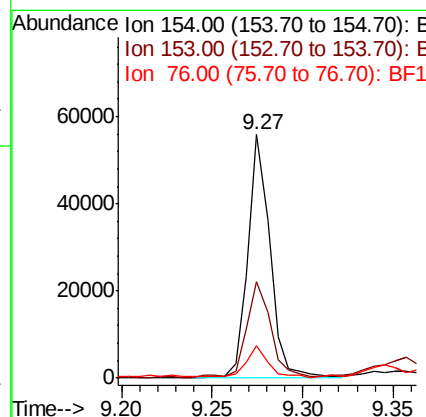
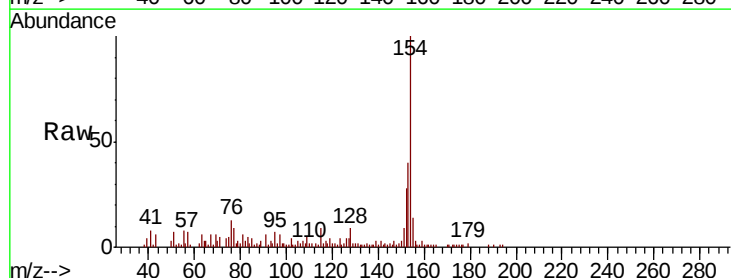
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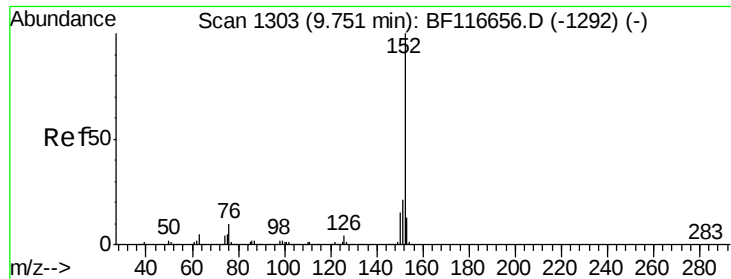
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#46
1,1'-Biphenyl
Concen: 4.027 ng
RT: 9.27 min Scan# 1222
Delta R.T. -0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.9	19.8	59.8
76	13.2	0.0	32.8





#49

Acenaphthylene

Concen: 51.369 ng

RT: 9.72 min Scan# 1298

Delta R.T. 0.00 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Instrument :

BNA_F

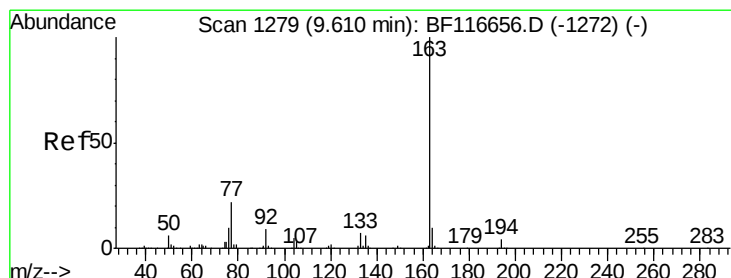
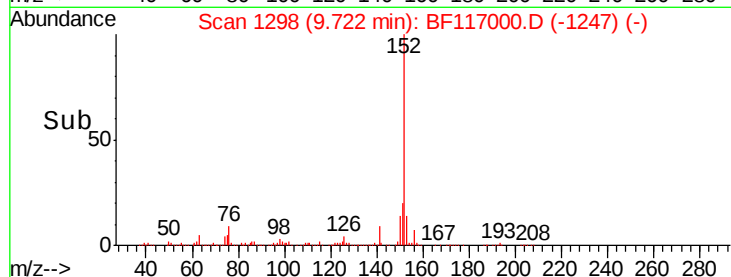
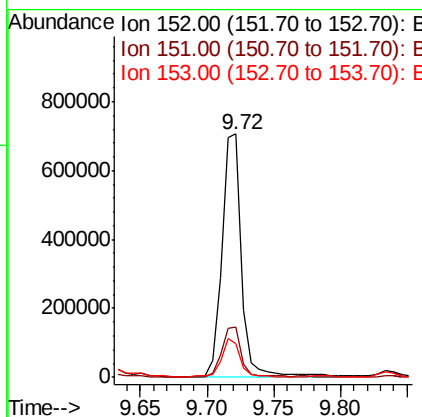
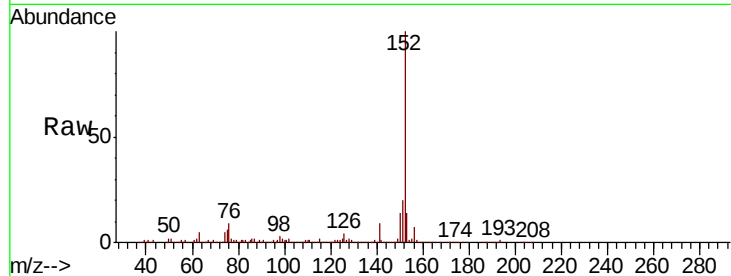
ClientSampleId :

AOC-7-(6)

Tot Ion:	152	Resp:	730709
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.1	24.1
153	14.1	10.3	15.5

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#50

Dimethylphthalate

Concen: 5.529 ng

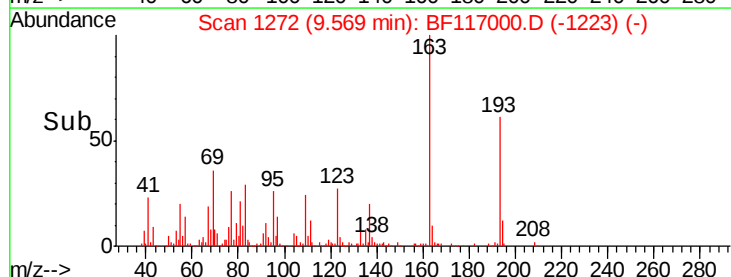
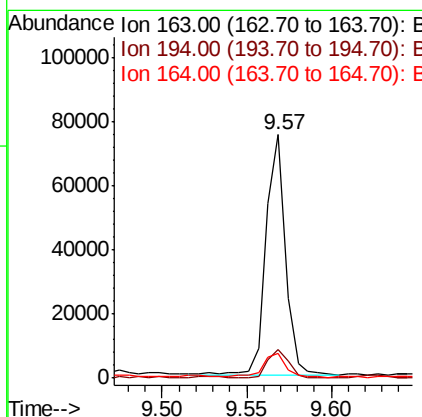
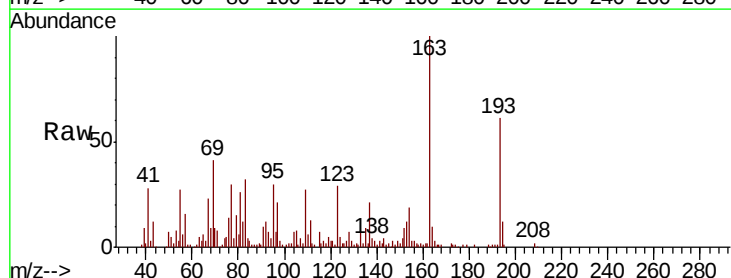
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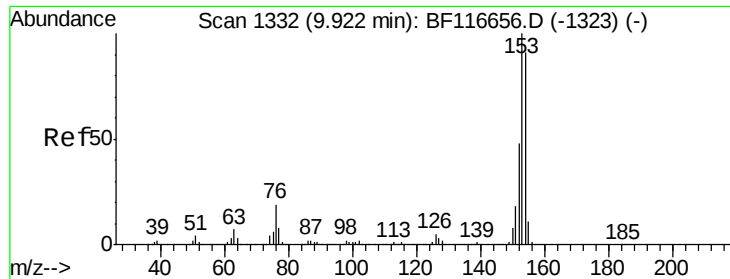
Delta R.T. -0.01 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Tgt Ion:	163	Resp:	59767
Ion Ratio	Lower	Upper	
163	100		
194	11.8	2.7	4.1#
164	10.2	8.2	12.4





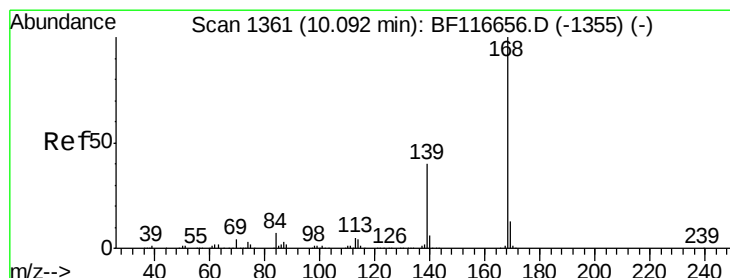
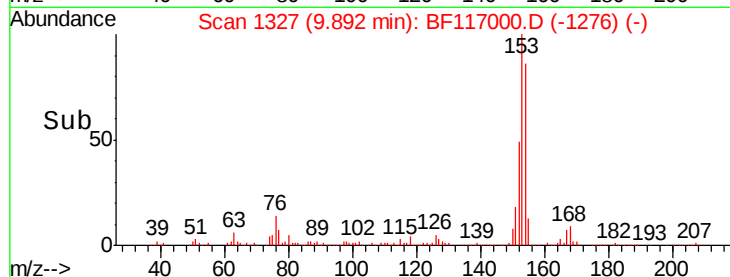
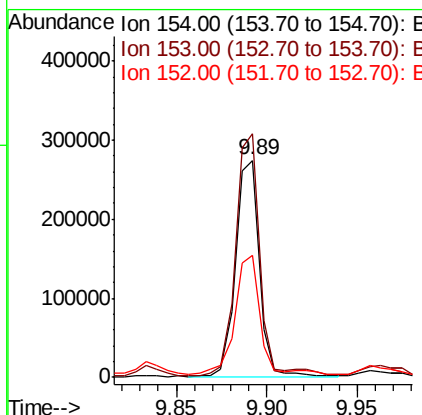
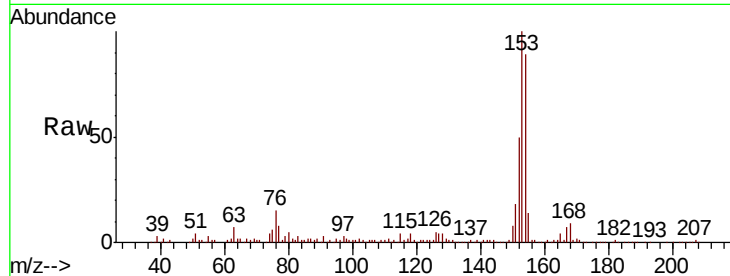
#52
Acenaphthene
Concen: 28.669 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.00 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Resp	Lower	Upper
154	100	250567		
153	112.0	89.9	134.9	
152	56.0	42.6	63.8	

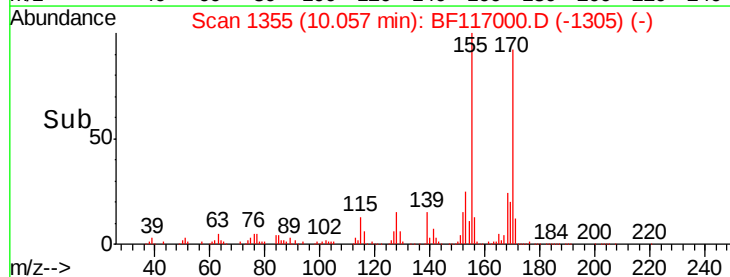
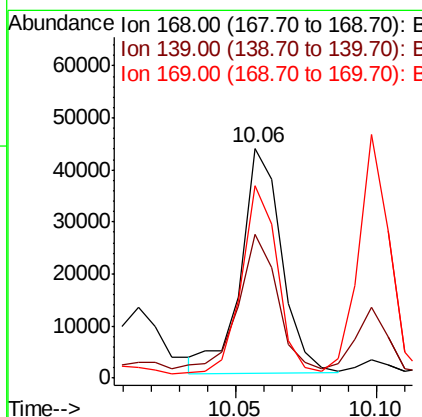
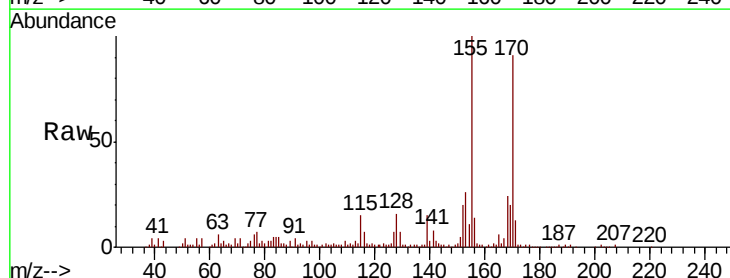
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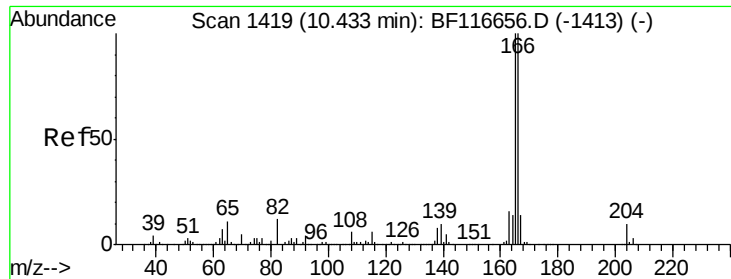
mohammad
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#55
Dibenzofuran
Concen: 3.504 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	43174		
139	62.7	34.2	51.4#	
169	83.8	11.0	16.4#	





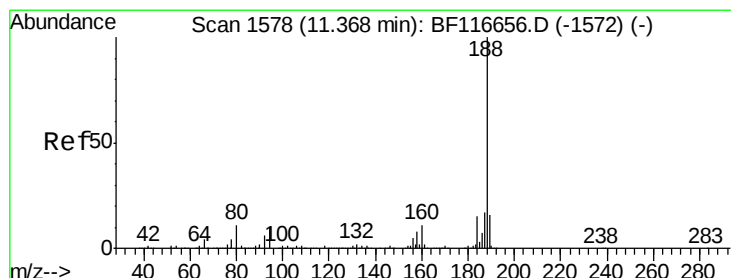
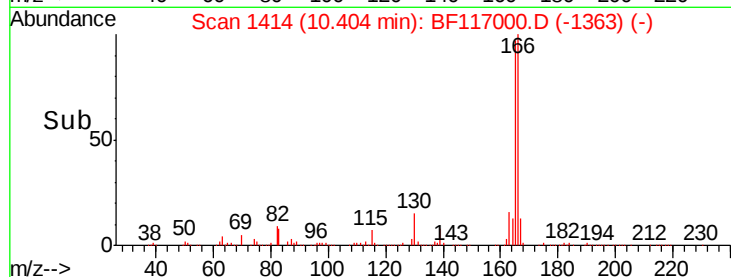
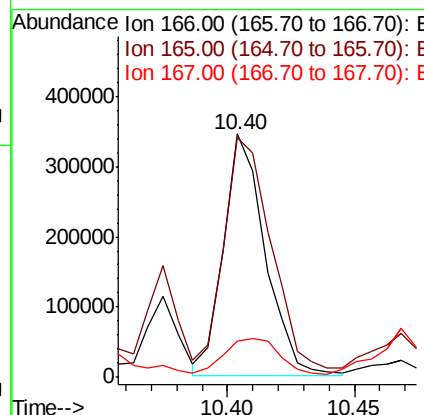
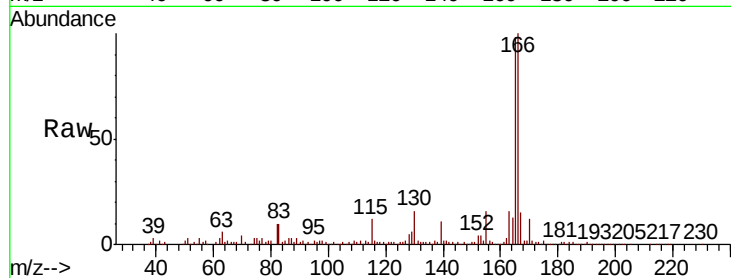
#58
 Fluorene
 Concen: 41.826 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. 0.00 min
 Lab File: BF117000.D
 Acq: 12 Sep 2019 18:57

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	77.0	115.6
167	15.0	10.7	16.1

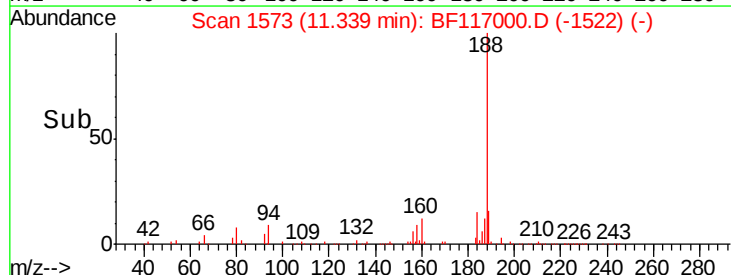
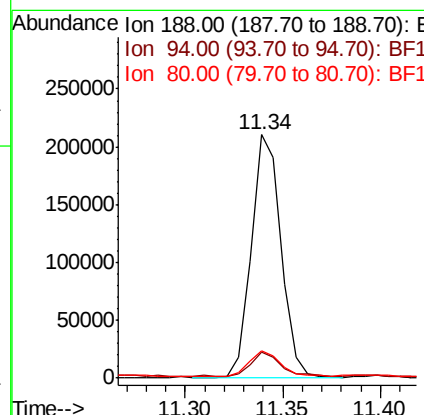
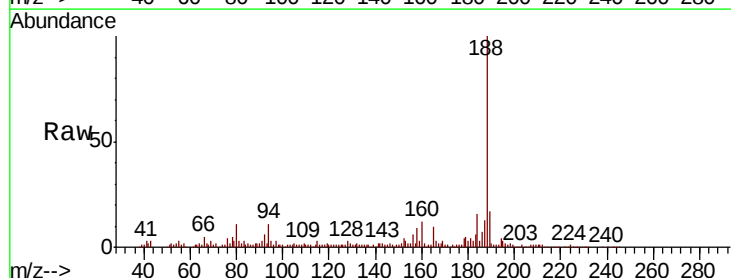
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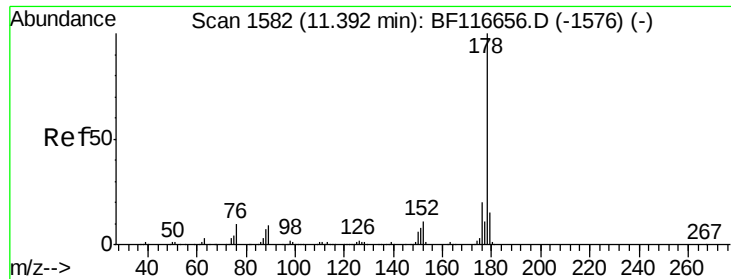
mohammad
 9/16/2019 8:59:44 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: BF117000.D
 Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.4	11.2
80	11.2	8.5	12.7





#71

Phenanthrene

Concen: 109.640 ng

RT: 11.37 min Scan# 1579

Delta R.T. 0.01 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Instrument :

BNA_F

ClientSampleId :

AOC-7-(6)

Tot Ion:178 Resp: 1340386

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

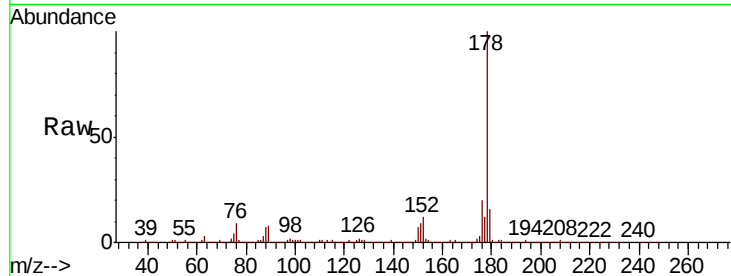
179 15.9 12.0 18.0

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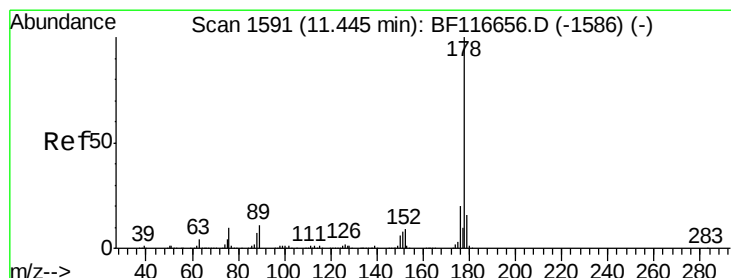
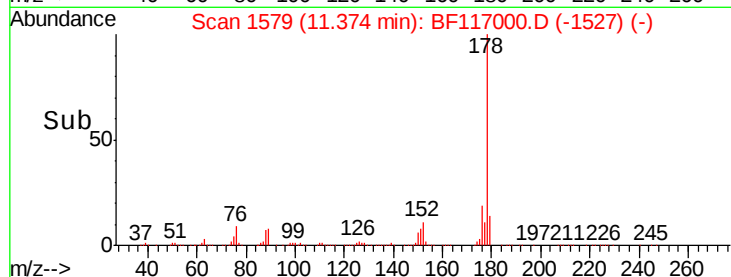
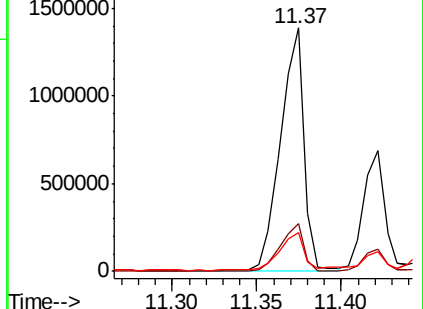
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 46.875 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.01 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

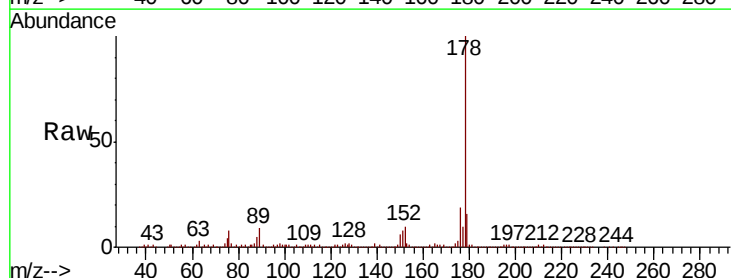
Tgt Ion:178 Resp: 576866

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

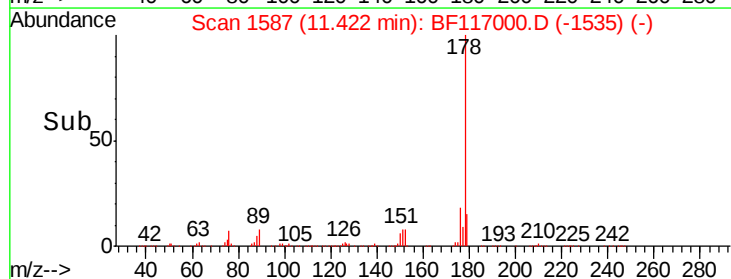
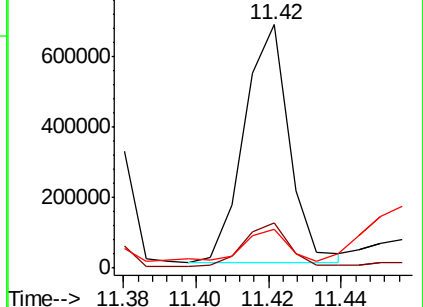
179 15.9 12.3 18.5

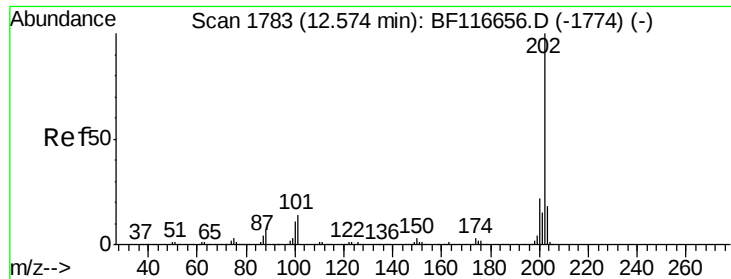


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 211.085 ng

RT: 12.58 min Scan# 1784

Delta R.T. 0.03 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Instrument :

BNA_F

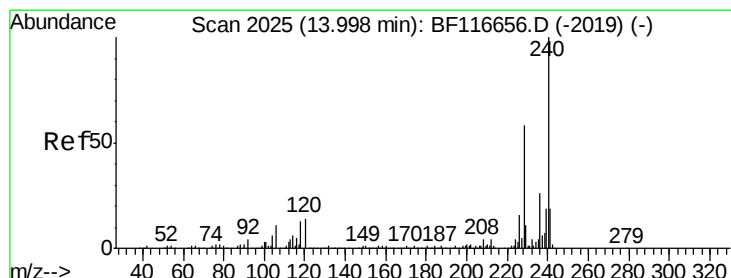
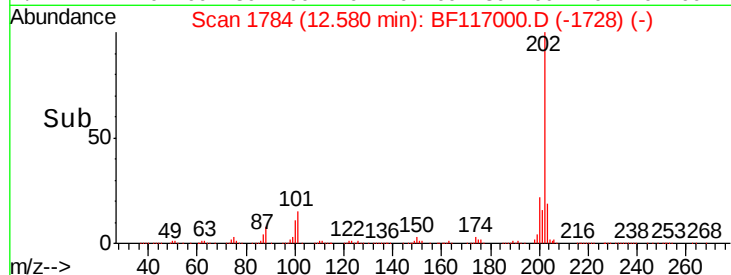
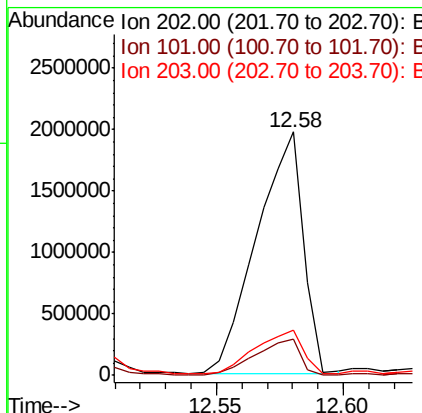
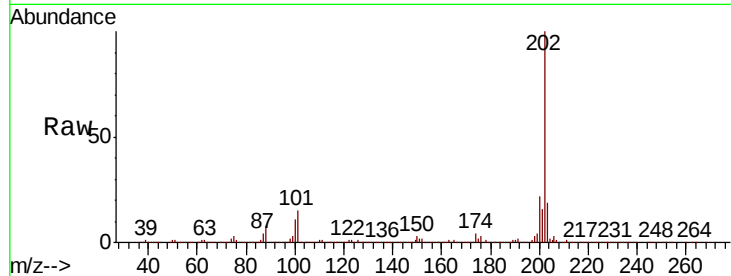
ClientSampled :

AOC-7-(6)

Tot Ion:	202	Resp:	2536086
Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	32.0
203	18.6	0.0	37.5

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#76

Chrysene-d12

Concen: 20.000 ng

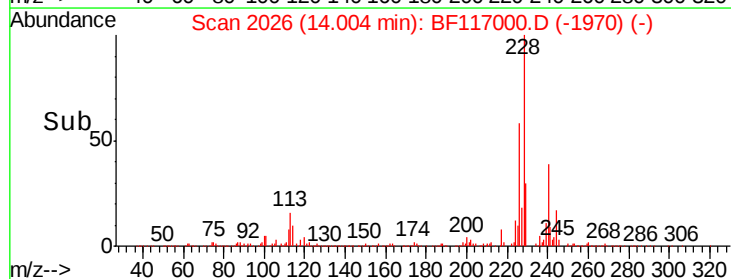
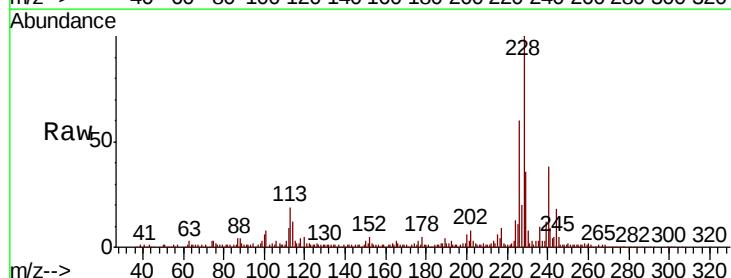
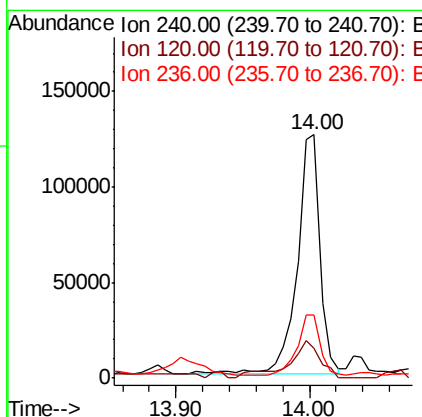
RT: 14.00 min Scan# 2026

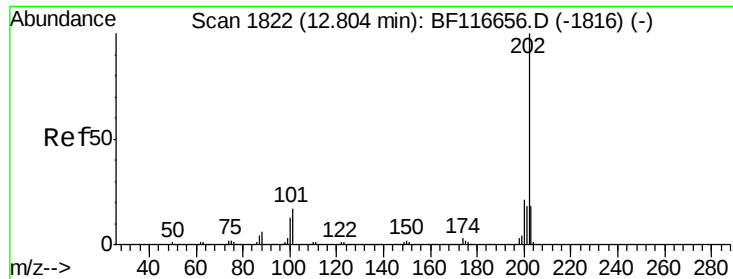
Delta R.T. 0.03 min

Lab File: BF117000.D

Acq: 12 Sep 2019 18:57

Tgt Ion:	240	Resp:	147108
Ion	Ratio	Lower	Upper
240	100		
120	12.1	9.1	13.7
236	25.9	20.9	31.3





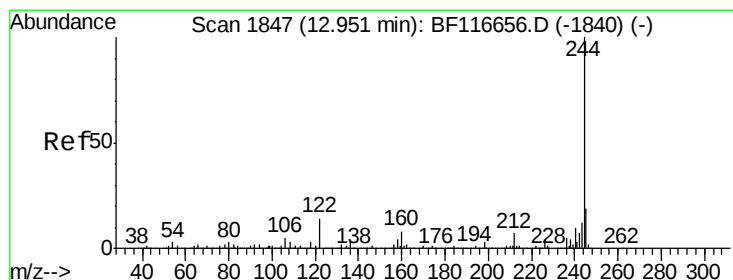
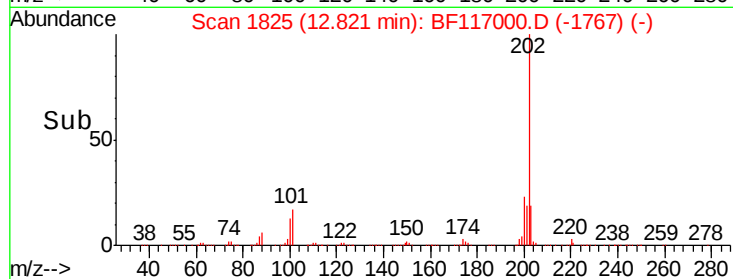
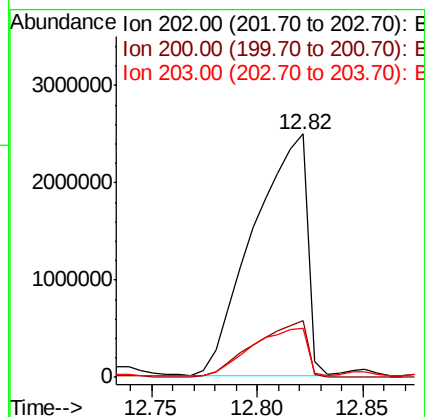
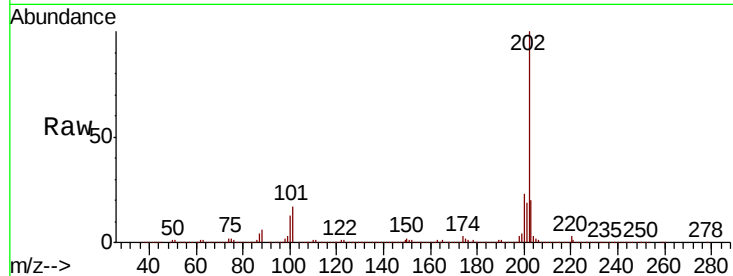
#78
Pvrene
Concen: 336.642 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.04 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.5	17.2	25.8
203	20.0	14.2	21.2

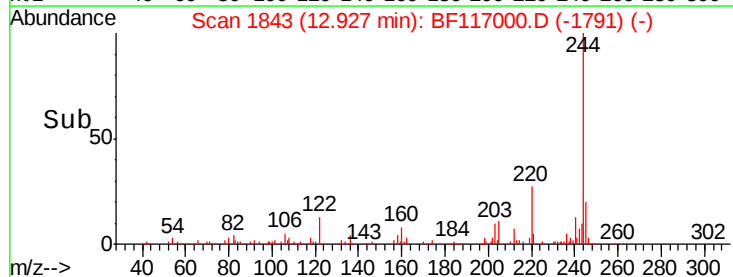
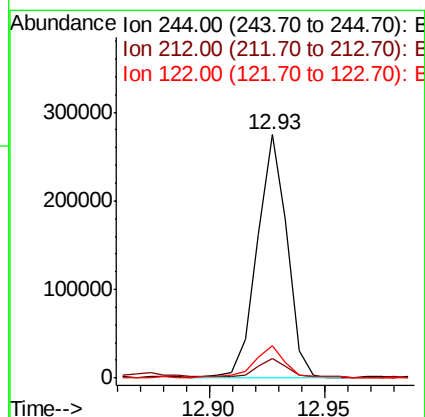
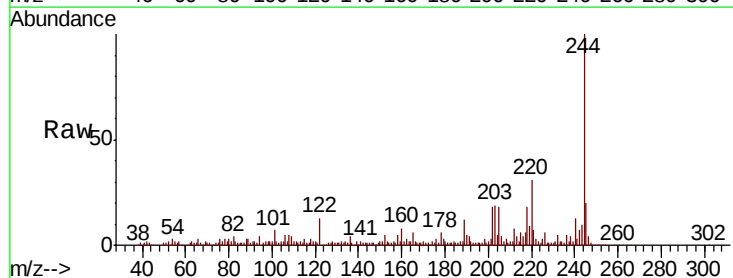
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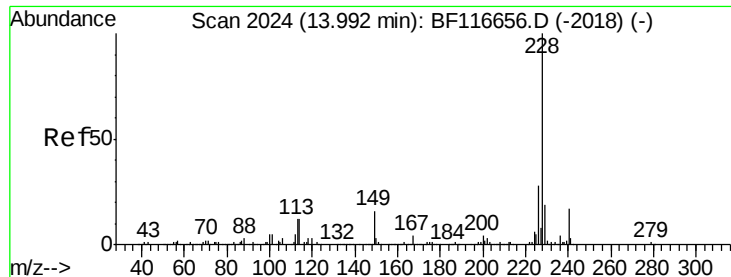
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#79
Terphenyl-d14
Concen: 30.995 ng
RT: 12.93 min Scan# 1843
Delta R.T. 0.01 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.3	5.7	8.5
122	13.3	11.5	17.3





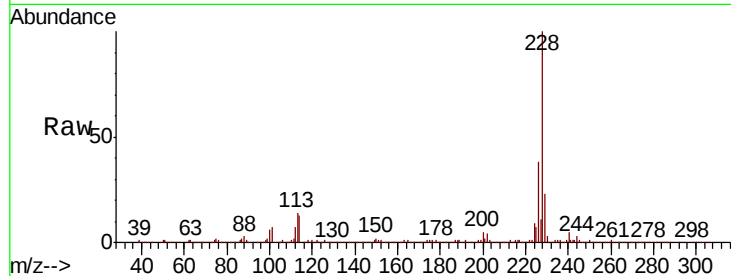
#81
Benzo(a)anthracene
Concen: 214.282 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.03 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
228	100		
226	37.8	22.3	33.5#
229	22.6	15.8	23.8

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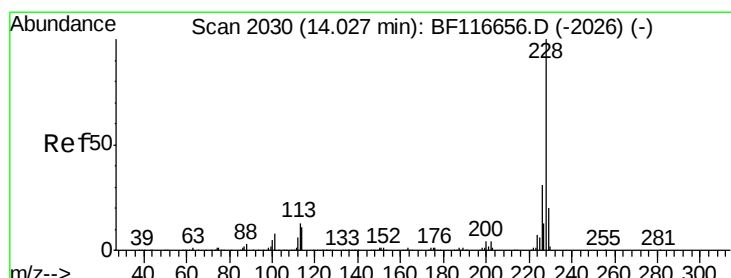
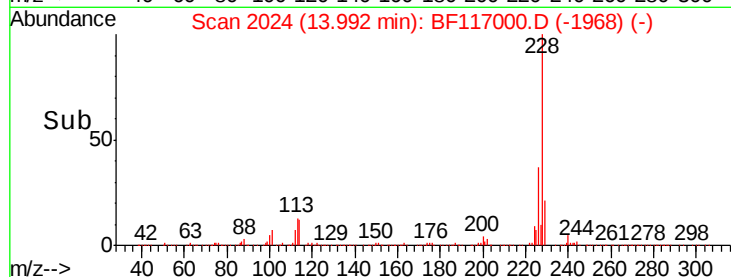
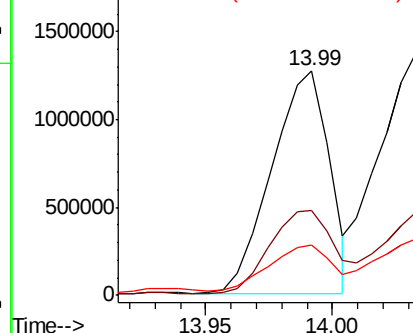


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 193.126 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.03 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

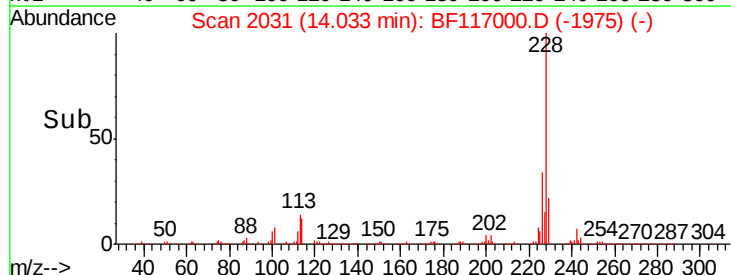
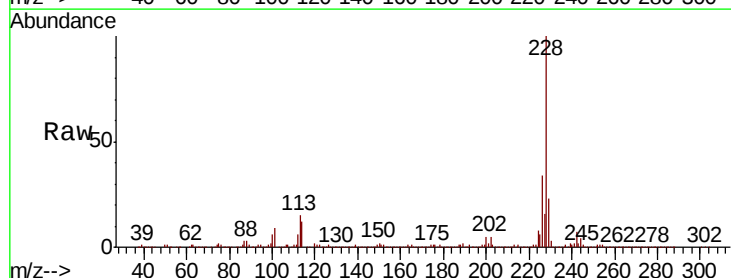
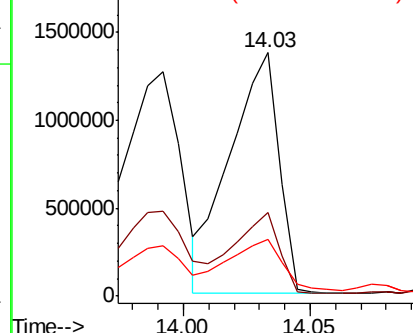
Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.3	24.5	36.7
229	23.1	15.7	23.5

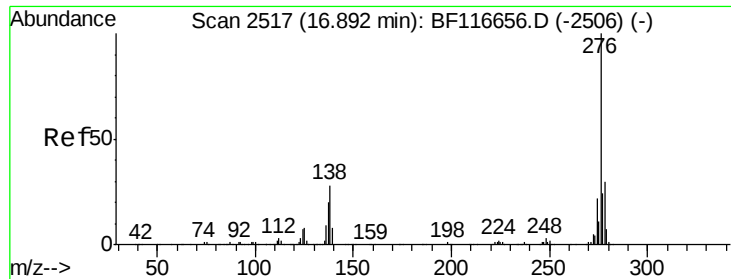
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





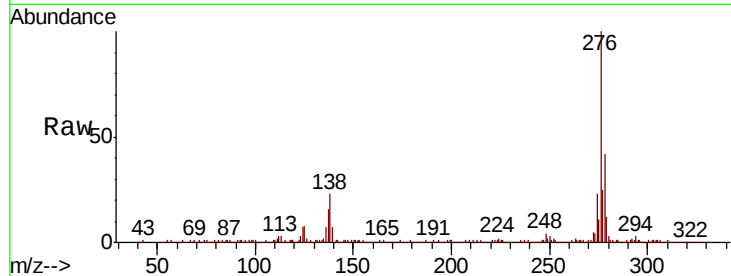
#86
Indeno(1,2,3-cd)pyrene
Concen: 57.093 ng
RT: 16.90 min Scan# 2518
Delta R.T. 0.04 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampled :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.6	31.0
277	25.7	19.9	29.9

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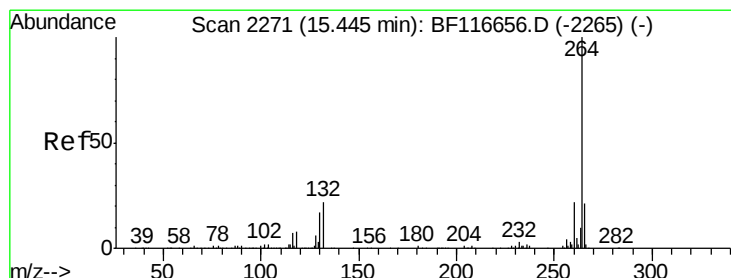
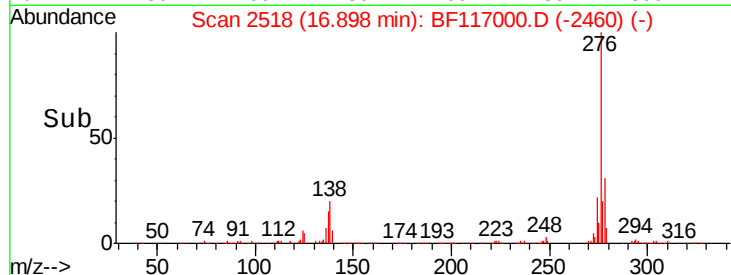
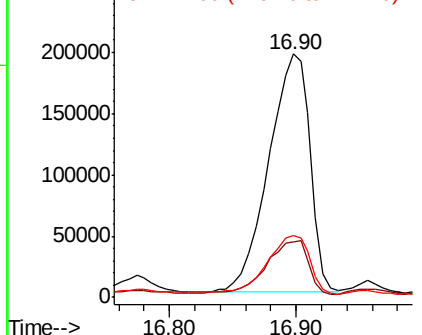


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.04 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

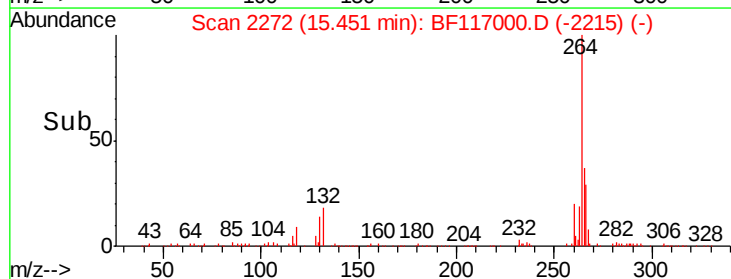
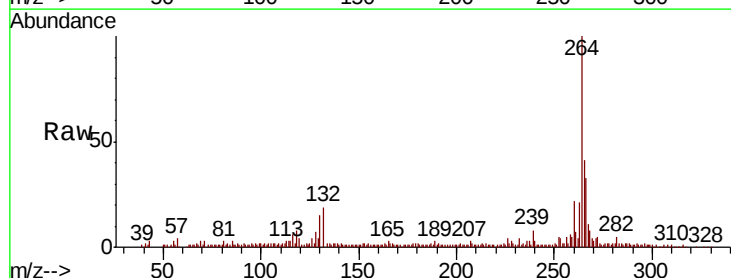
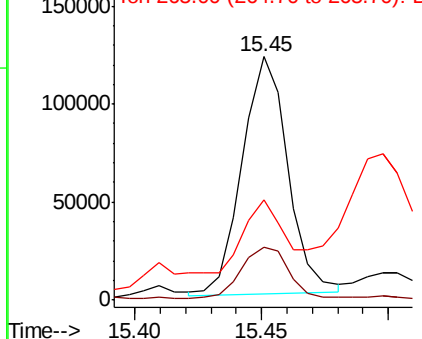
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.0	19.0	28.4
265	41.4	17.9	26.9#

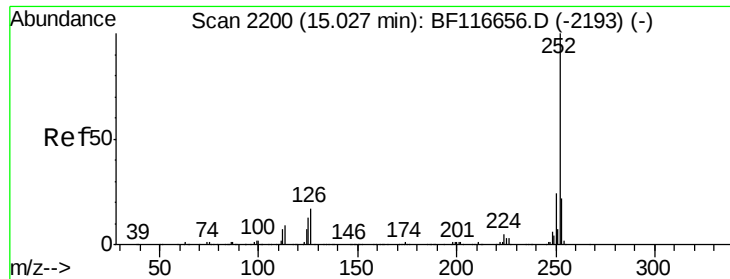
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





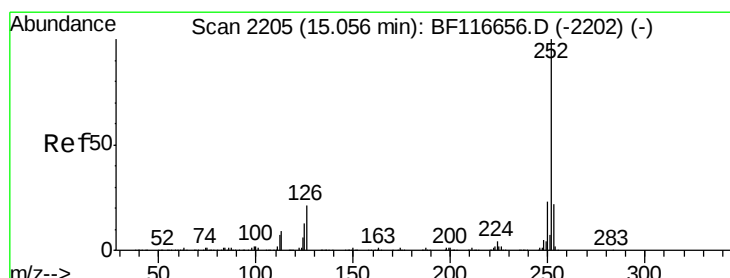
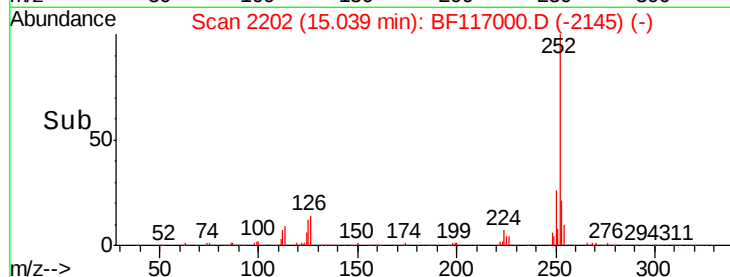
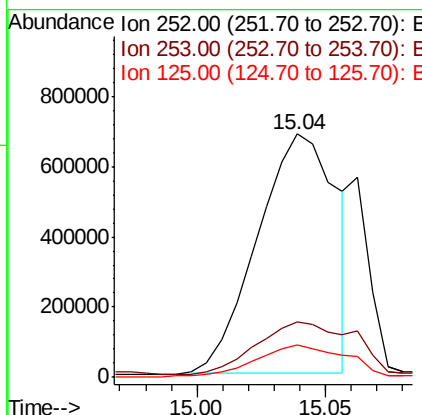
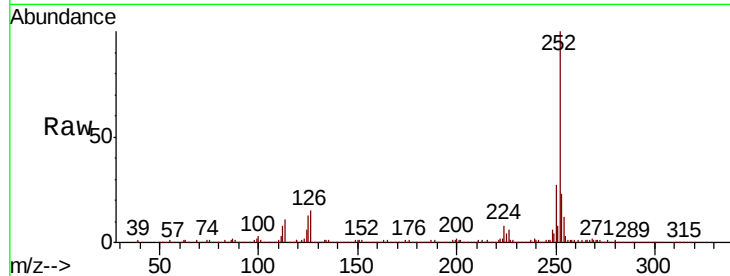
#88
Benzo(b)fluoranthene
Concen: 158.683 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.04 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	13.1	8.3	12.5

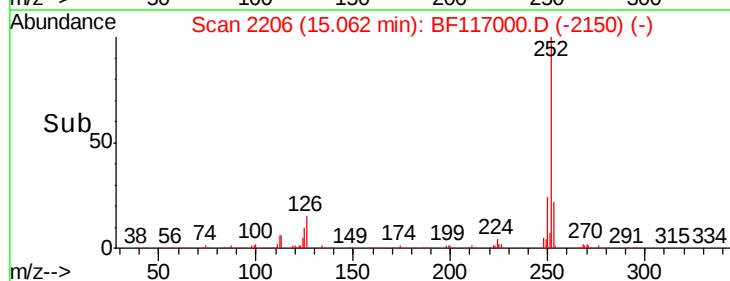
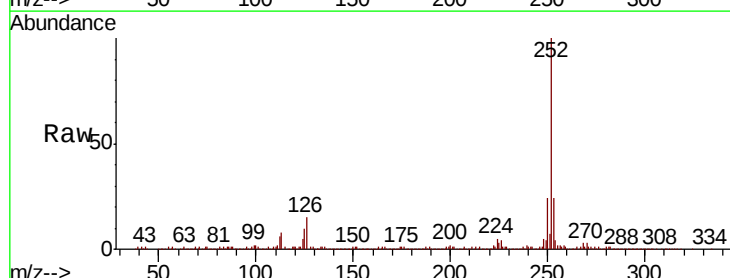
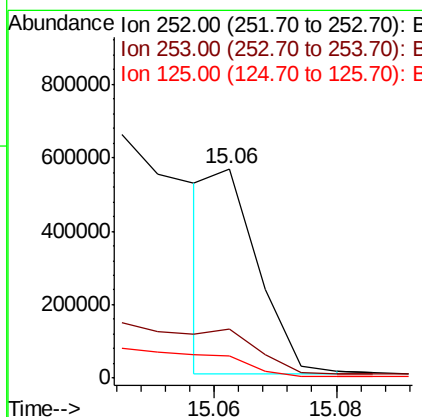
Manual Integrations
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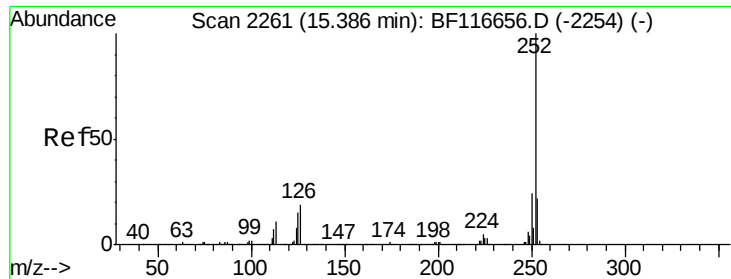
mohammad
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#89
Benzo(k)fluoranthene
Concen: 34.073 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.03 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	16.8	25.2
125	10.5	7.6	11.4





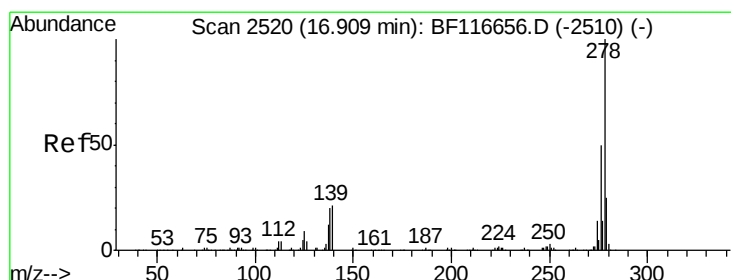
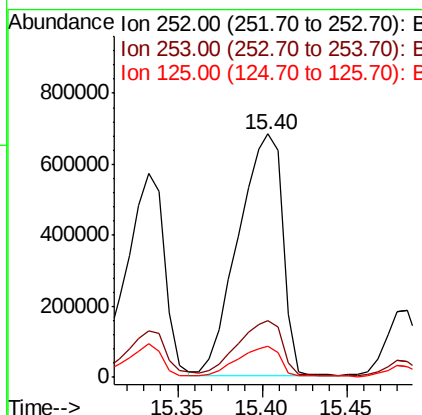
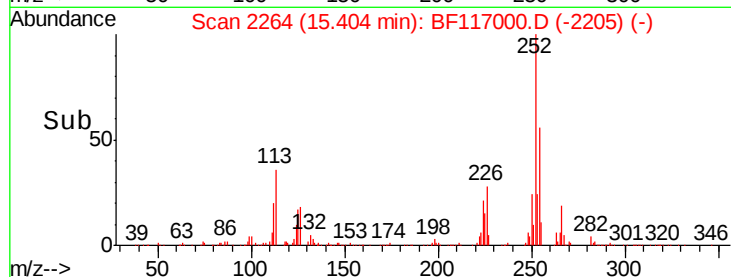
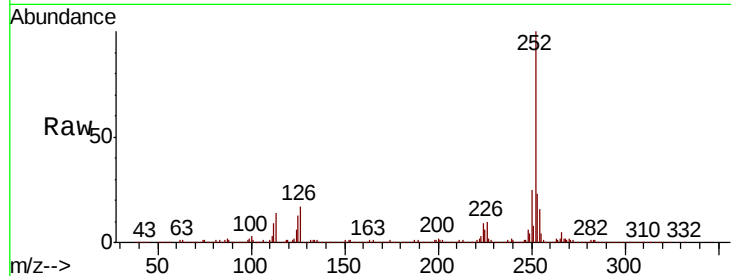
#90
Benzo(a)pyrene
Concen: 154.733 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.05 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Instrument :
BNA_F
ClientSampleId :
AOC-7-(6)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.6	26.4
125	13.0	10.2	15.2

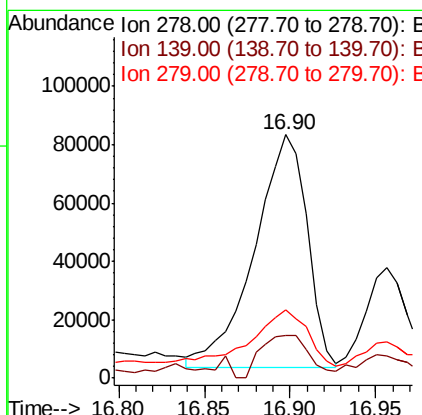
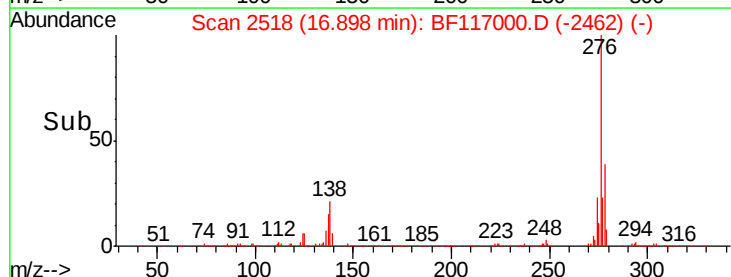
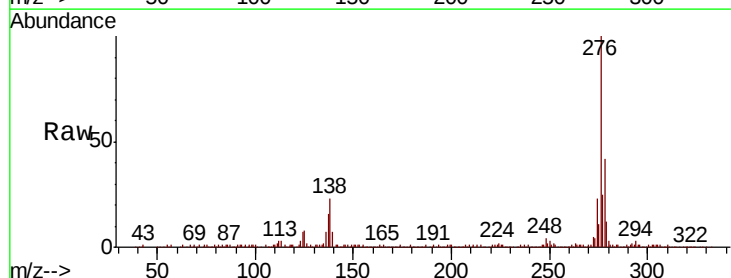
Manual Integrations
APPROVED

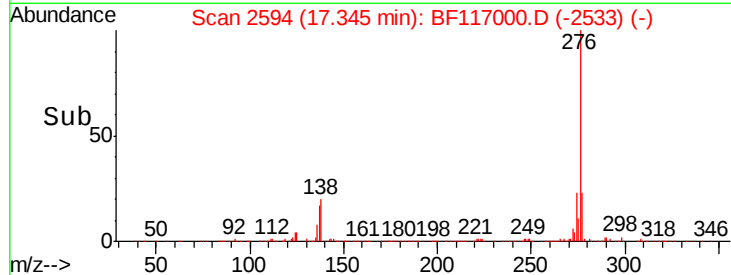
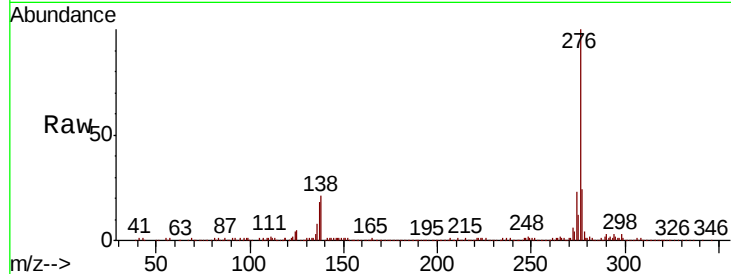
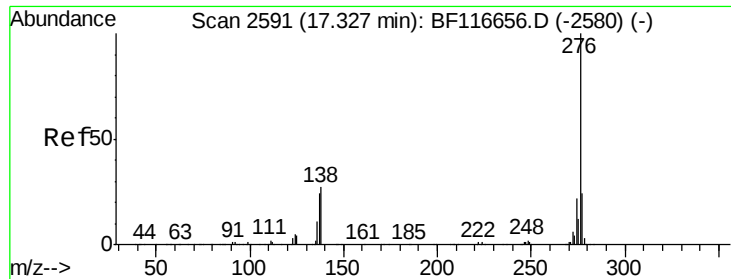
mohammad
9/16/2019 8:59:44 AM



#91
Dibenzo(a,h)anthracene
Concen: 24.276 ng m
RT: 16.90 min Scan# 2518
Delta R.T. 0.03 min
Lab File: BF117000.D
Acq: 12 Sep 2019 18:57

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.7	13.1	19.7
279	28.1	18.6	27.8#





#92
 Benzo(a,h,i)perylene
 Concen: 69.557 ng
 RT: 17.34 min Scan# 2594
 Delta R.T. 0.06 min
 Lab File: BF117000.D
 Acq: 12 Sep 2019 18:57

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(6)

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	23.9	19.0	28.6	
138	21.2	18.7	28.1	

Manual Integrations
 APPROVED

mohammad
 9/16/2019 8:59:44 AM

