

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
 Data File : BF115709.D
 Acq On : 22 Jul 2019 15:12
 Operator : HP/JU
 Sample : K3887-07DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(4)DL

Manual Integrations
 APPROVED

mohammad
 7/23/2019 4:24:28 PM

Quant Time: Jul 23 02:16:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	175017	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	666215	20.00	ng	-0.01
39) Acenaphthene-d10	9.92	164	350552	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	587101	20.00	ng	0.00
76) Chrysene-d12	14.04	240	368093	20.00	ng	0.00
87) Perylene-d12	15.52	264	482804	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	547353	51.16	ng	0.00
7) Phenol-d6	6.50	99	721449	53.14	ng	-0.01
23) Nitrobenzene-d5	7.43	82	442848	38.65	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	170773	41.74	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	797840	39.84	ng	-0.02
79) Terphenyl-d14	12.99	244	677963	33.98	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.18	128	83967	2.602	ng	96
49) Acenaphthylene	9.77	152	305620	9.039	ng	96
50) Dimethylphthalate	9.62	163	109646	4.157	ng	99
71) Phenanthrene	11.43	178	437844	14.549	ng	95
72) Anthracene	11.47	178	156855	5.043	ng	97
75) Fluoranthene	12.62	202	1342259	42.207	ng	99
78) Pyrene	12.85	202	1876084	60.157	ng	99
81) Benzo(a)anthracene	14.03	228	702102m	28.953	ng	
83) Chrysene	14.07	228	575425	23.638	ng	99
86) Indeno(1,2,3-cd)pyrene	17.00	276	204925	9.908	ng	95
88) Benzo(b)fluoranthene	15.09	252	556517m	17.901	ng	
89) Benzo(k)fluoranthene	15.12	252	150163m	5.418	ng	
90) Benzo(a)pyrene	15.46	252	343314	12.848	ng	99
91) Dibenzo(a,h)anthracene	17.00	278	57836	2.466	ng	97
92) Benzo(a,h,i)perylene	17.44	276	181393	7.753	ng	98

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

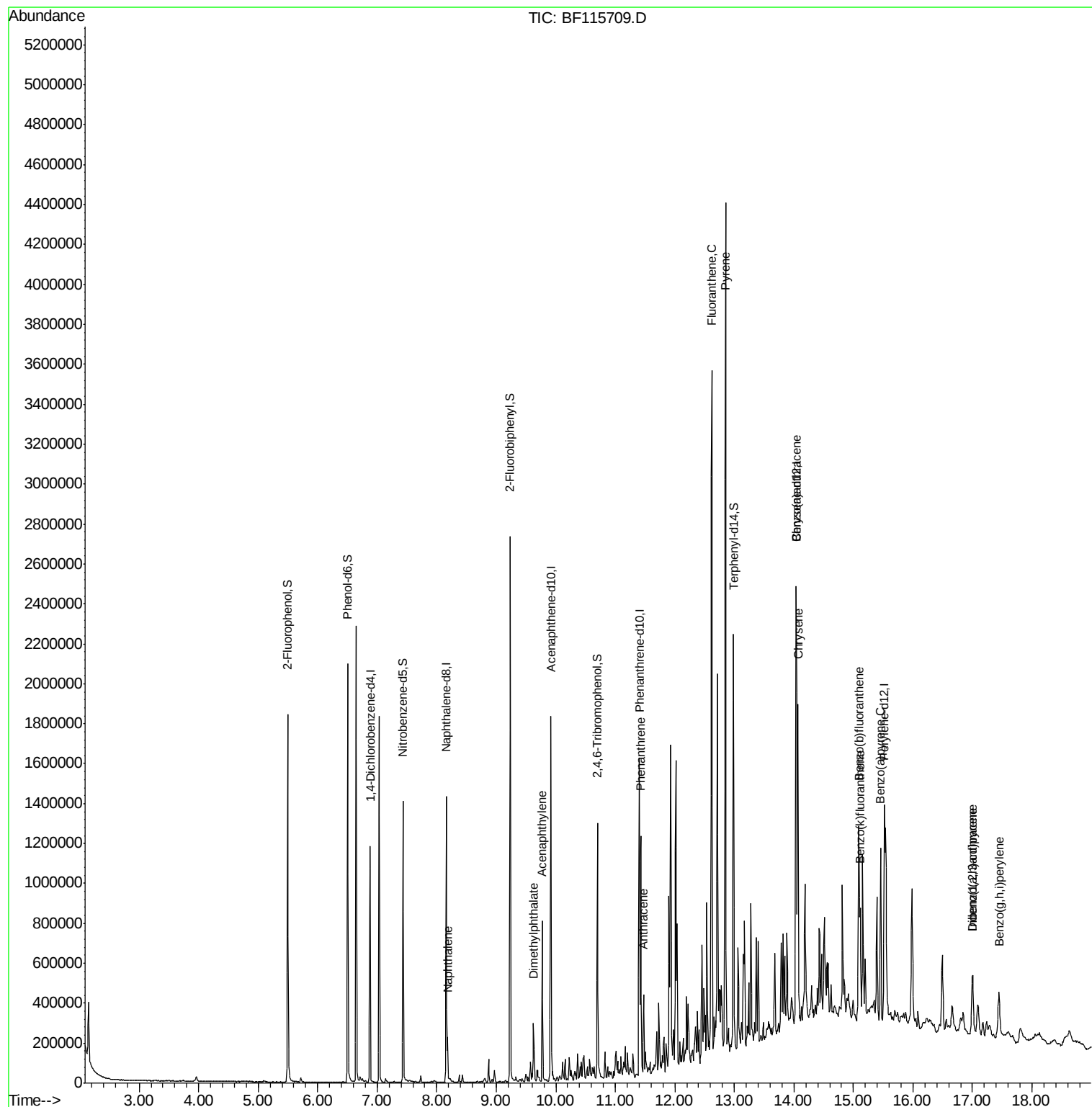
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#1

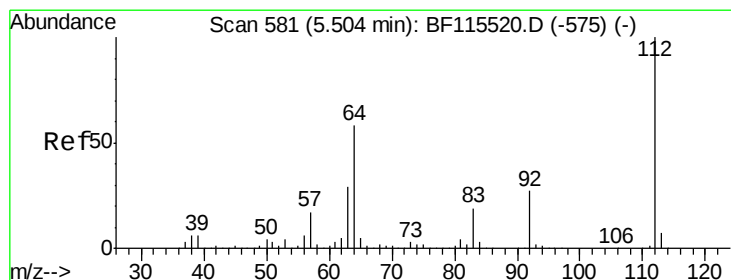
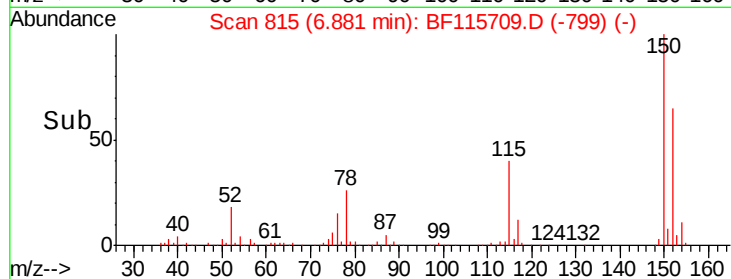
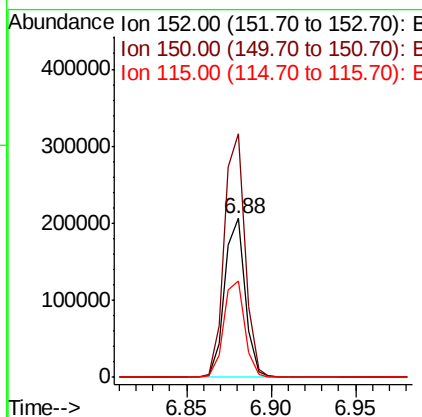
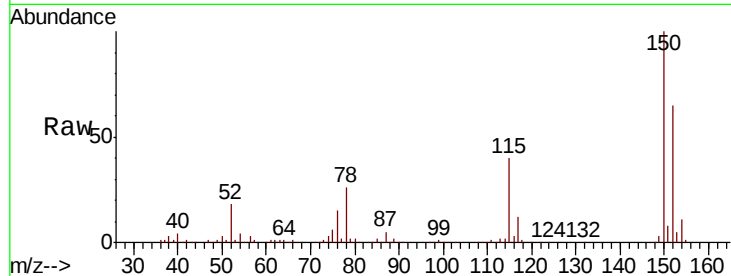
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.88 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF115709.D
 Acq: 22 Jul 2019 15:12

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(4)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.0	129.7	194.5
115	60.6	48.2	72.4

Manual Integrations
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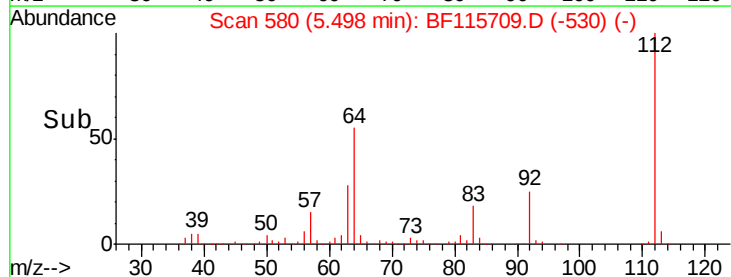
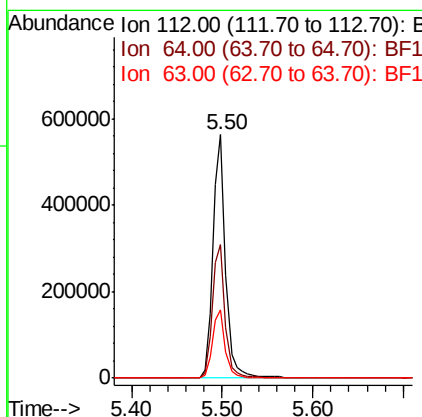
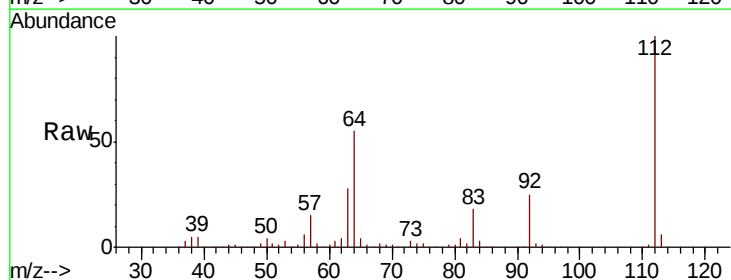
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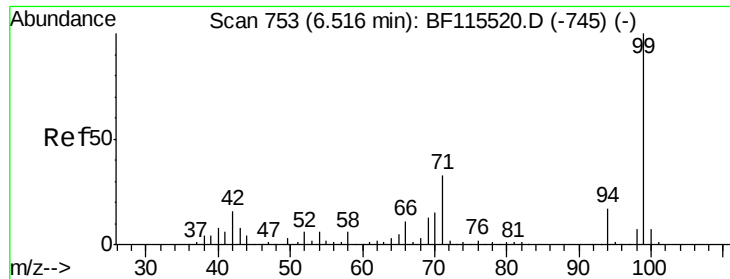


#5

2-Fluorophenol
 Concen: 51.156 ng
 RT: 5.50 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: BF115709.D
 Acq: 22 Jul 2019 15:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	46.8	70.2
63	28.2	24.1	36.1





#7

Phenol-d6

Concen: 53.139 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Instrument :

BNA_F

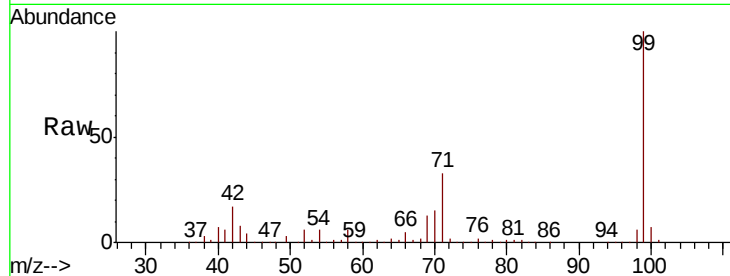
ClientSampled :

AOC-7(4)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		721449		
42	16.5	13.6	20.4		
71	32.5	28.5	42.7		

Manual Integrations
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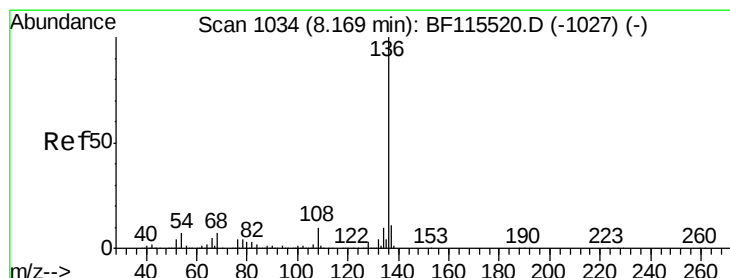
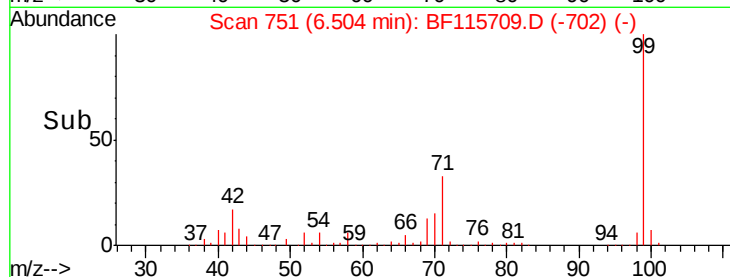
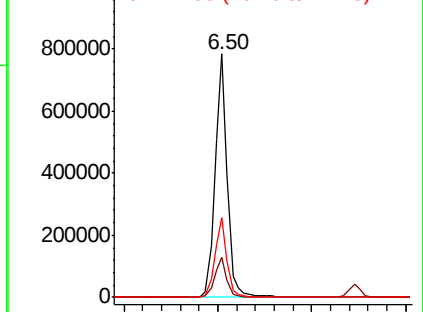


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		666215		
137	11.5	9.0	13.4		
54	7.5	5.6	8.4		
68	6.8	5.0	7.6		

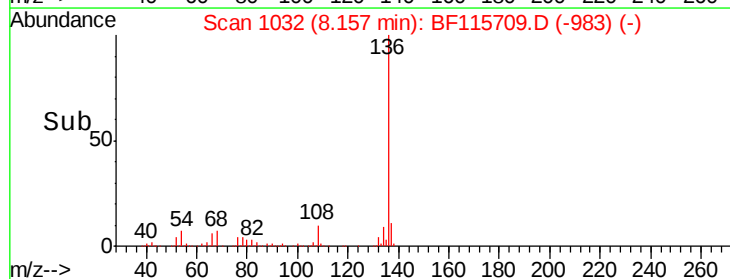
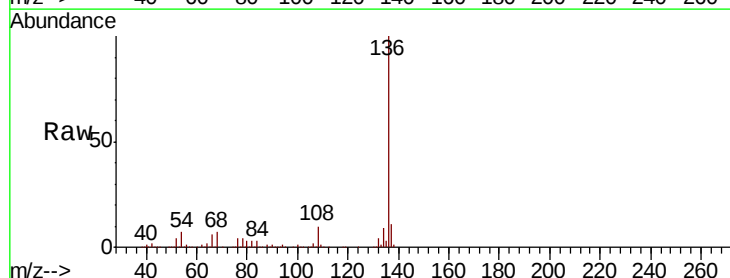
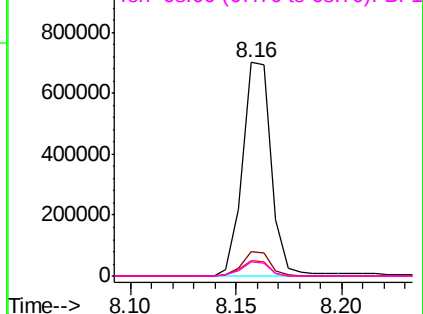
Abundance

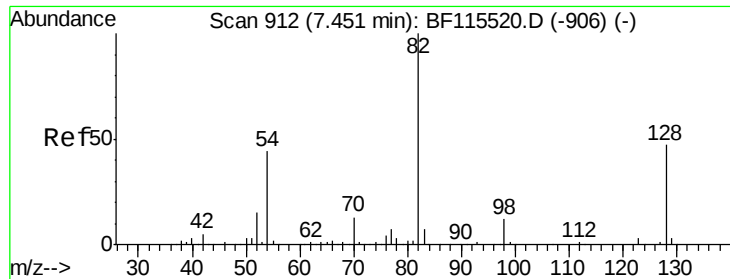
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





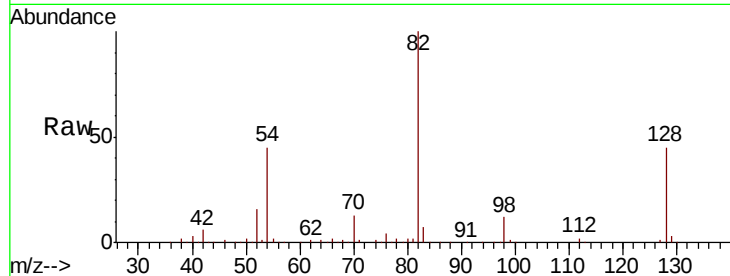
#23
Nitrobenzene-d5
Concen: 38.651 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.02 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.0	38.6	57.8
54	45.3	35.6	53.4

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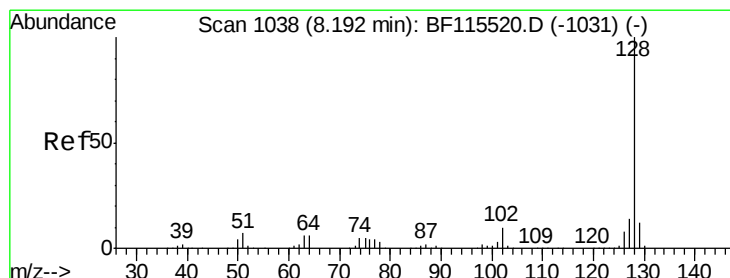
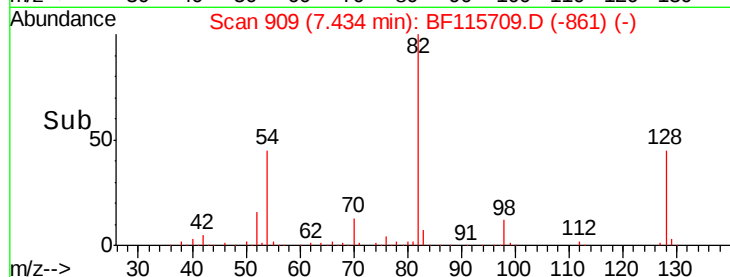
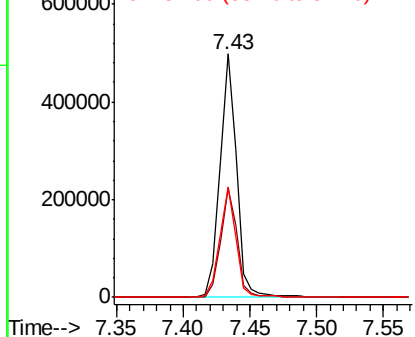


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 2.602 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

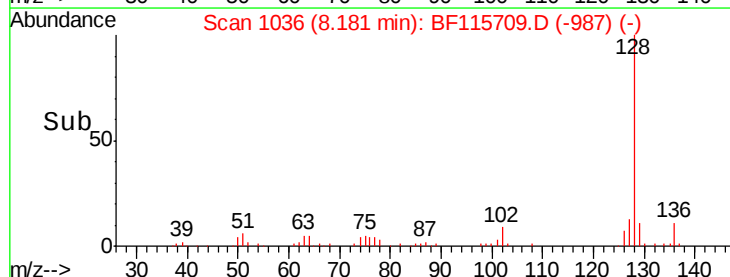
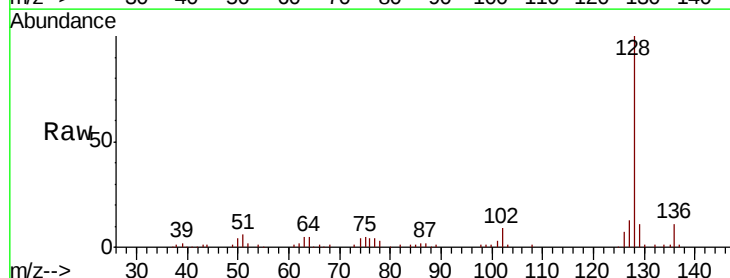
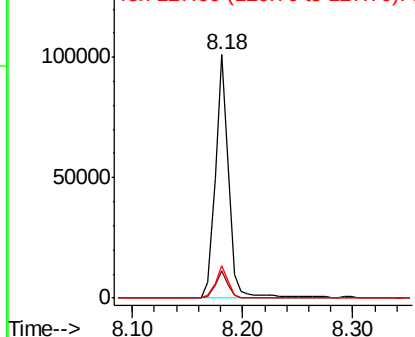
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.9	14.9
127	13.1	12.1	18.1

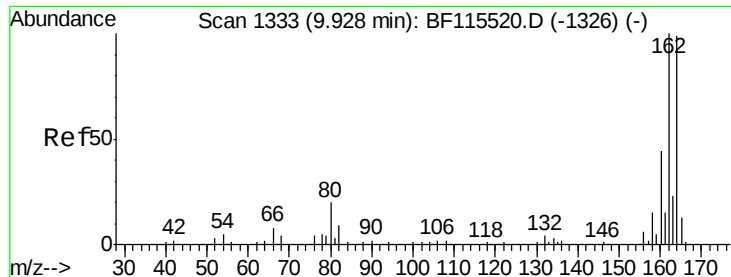
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





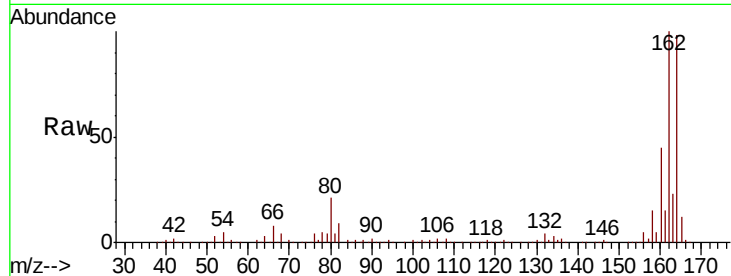
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.9	124.3
160	45.3	36.8	55.2

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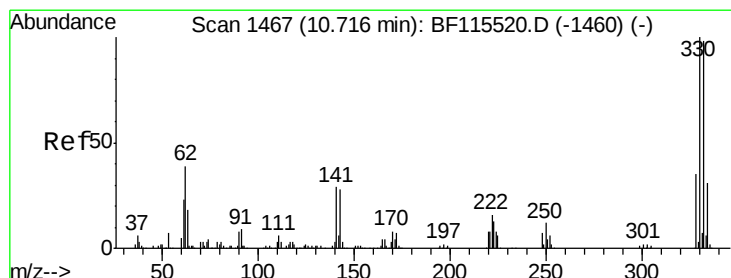
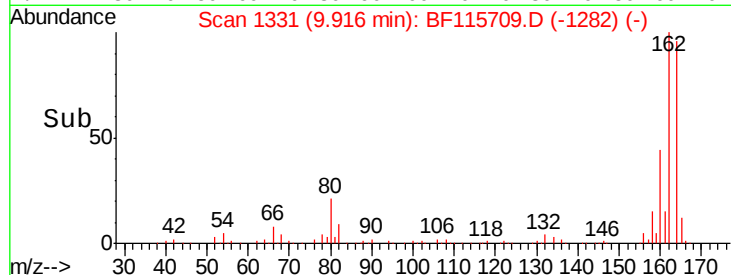
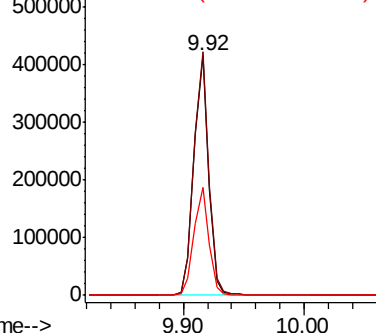


Abundance

Ion 164.00 (163.70 to 164.70): E

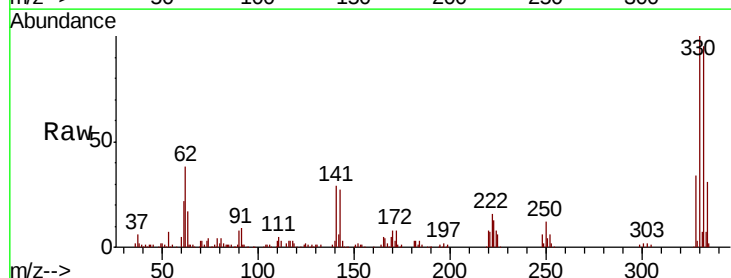
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 41.736 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.4	116.2
141	34.2	22.4	33.6#

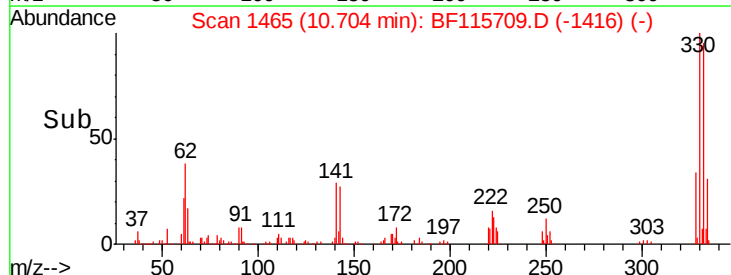
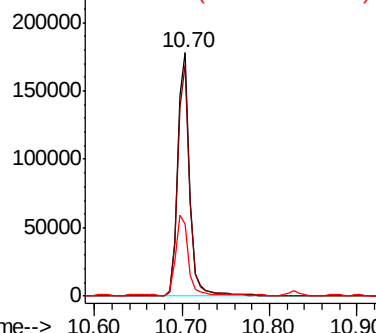


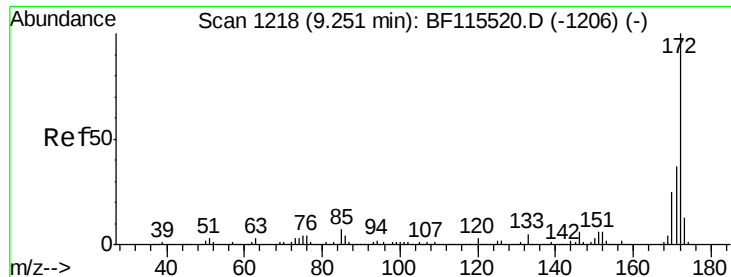
Abundance

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





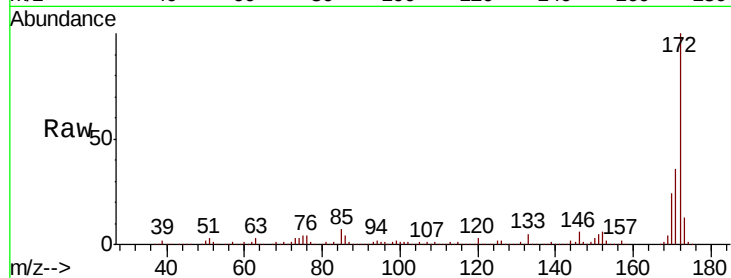
#45
2-Fluorobiphenyl
Concen: 39.836 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.02 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	797840		
171	35.5		30.6	46.0
170	24.2		20.5	30.7

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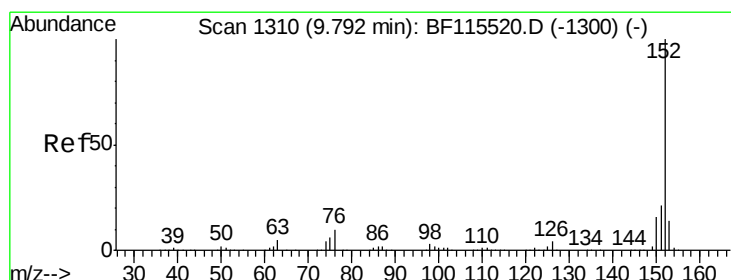
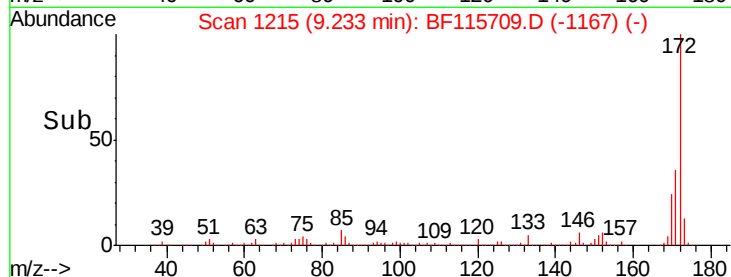
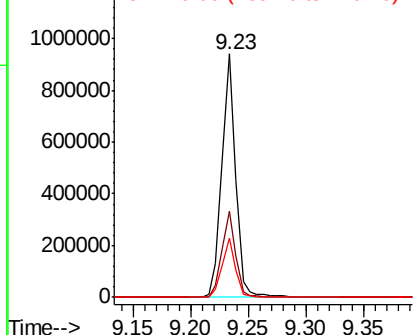


Abundance

Ion 172.00 (171.70 to 172.70): E

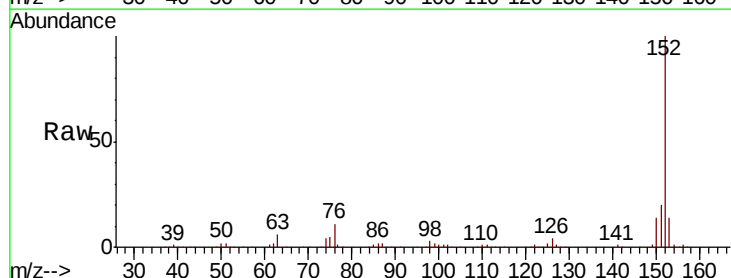
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 9.039 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	305620		
151	19.6		17.7	26.5
153	13.6		12.0	18.0

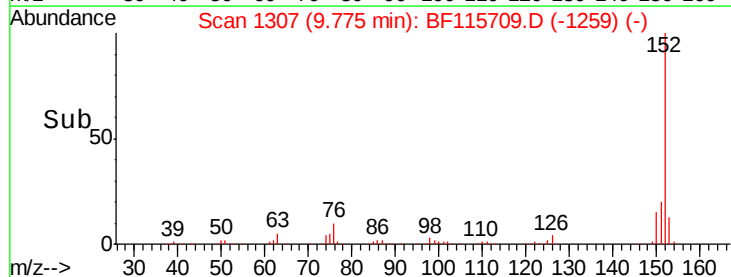
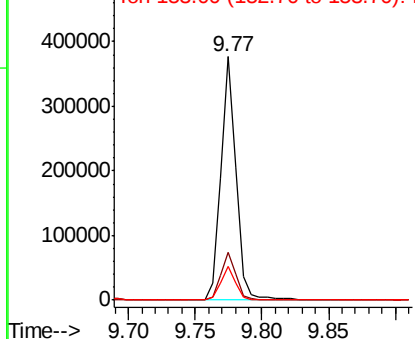


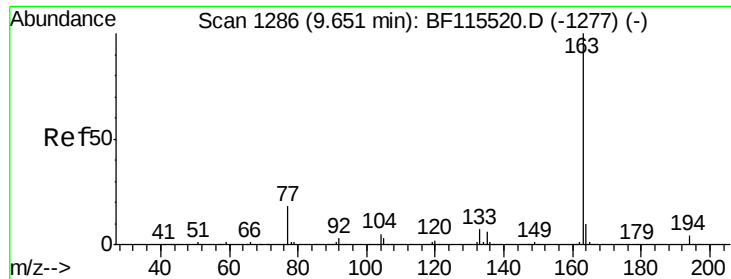
Abundance

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





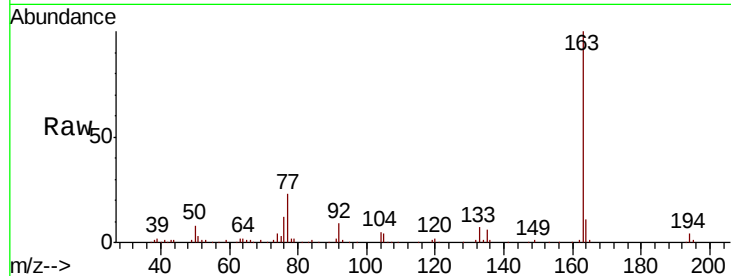
#50
Dimethylphthalate
Concen: 4.157 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.03 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

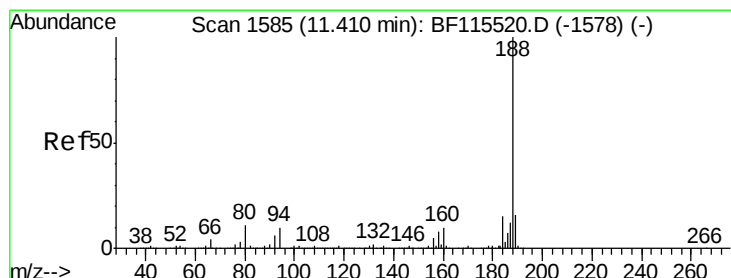
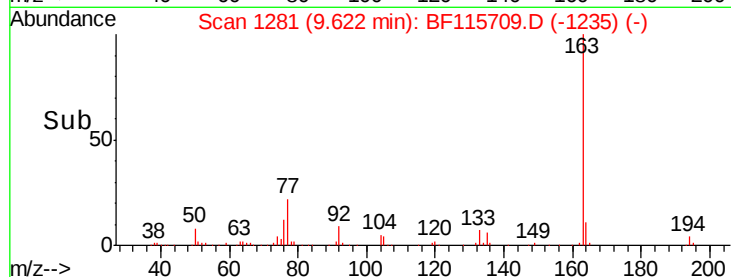
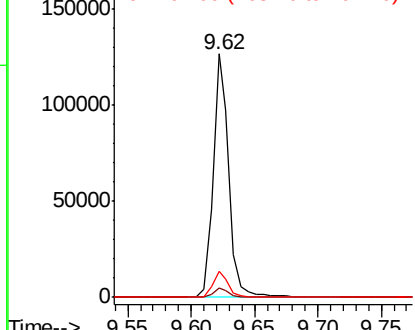
Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100				
194	3.7		3.3	4.9	
164	10.6		8.7	13.1	

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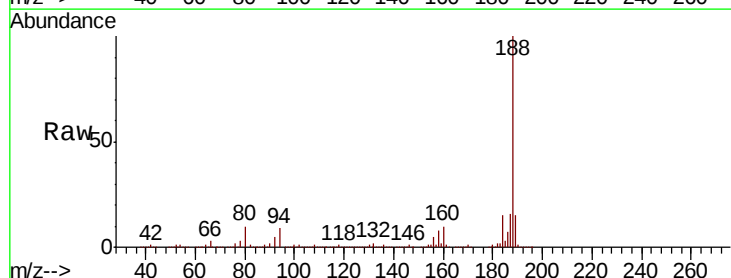


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

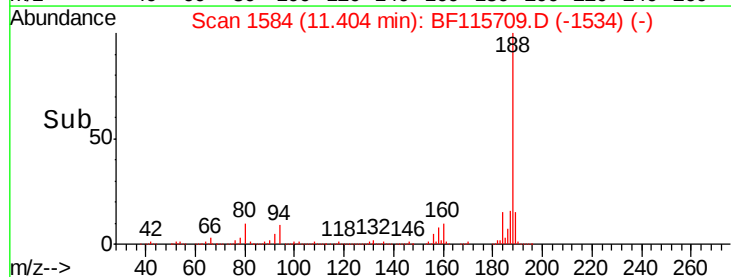
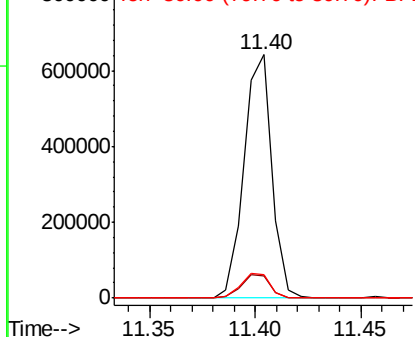


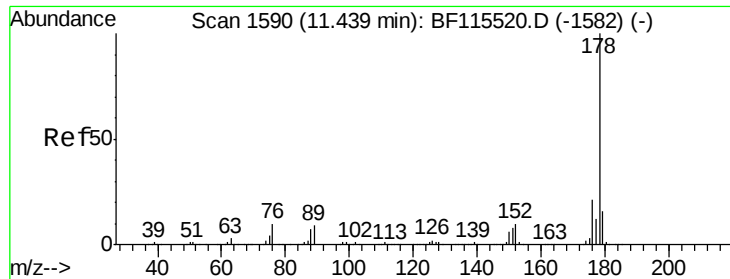
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	9.1		7.8	11.6	
80	9.7		8.6	13.0	



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 14.549 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Instrument :

BNA_F

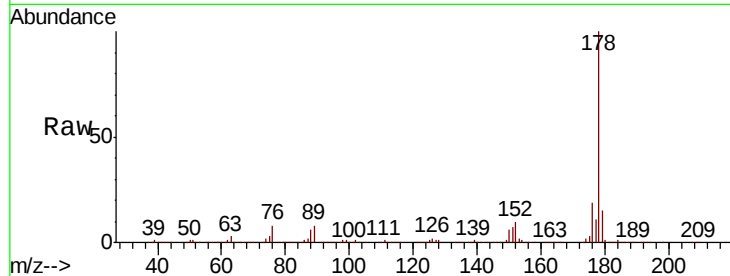
ClientSampleId :

AOC-7(4)DL

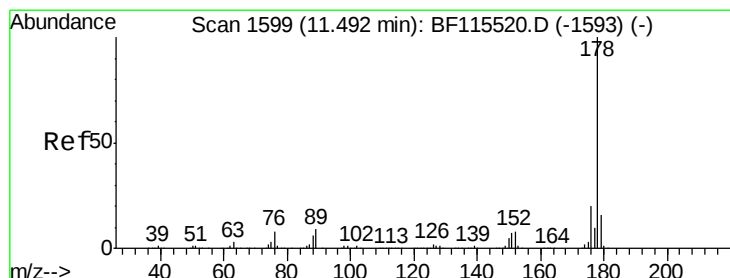
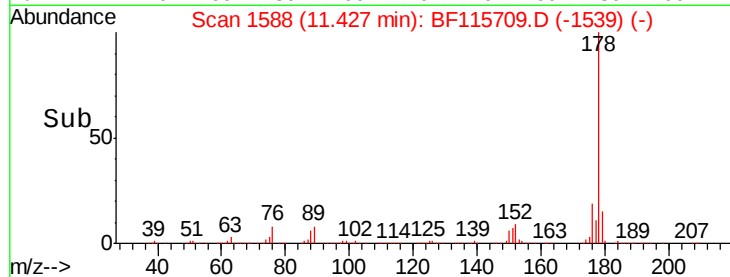
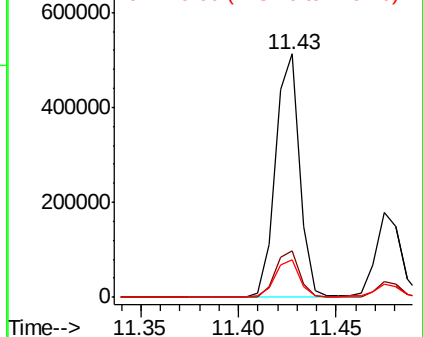
Tot Ion:	178	Resp:	437844
Ion Ratio	Lower	Upper	
178	100		
176	19.1	17.2	25.8
179	15.2	13.5	20.3

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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: 5.043 ng

RT: 11.47 min Scan# 1596

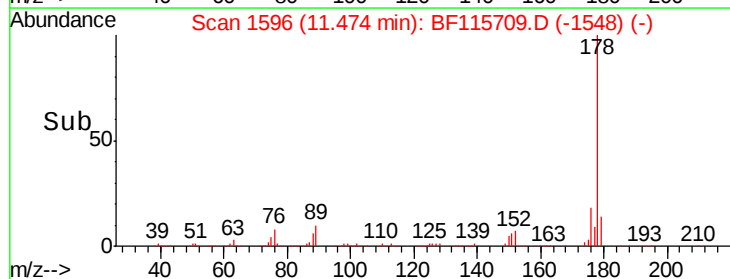
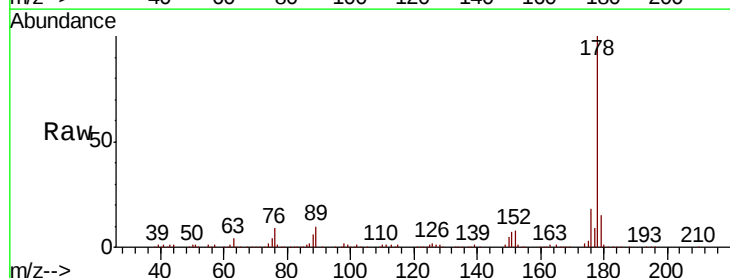
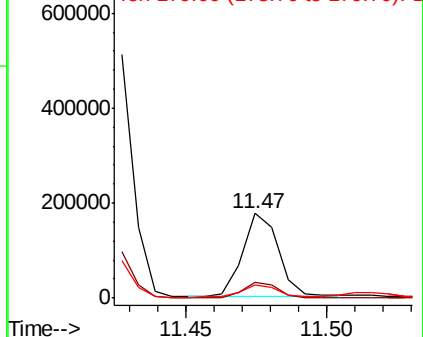
Delta R.T. -0.02 min

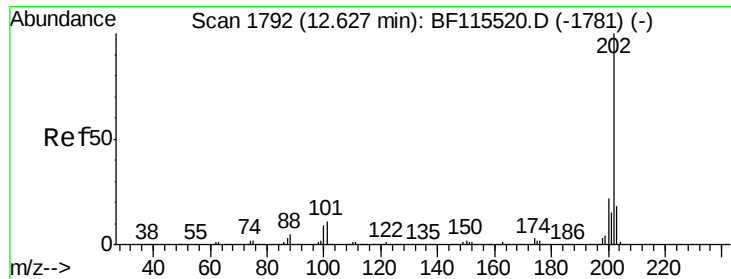
Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Tgt Ion:	178	Resp:	156855
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.9	23.9
179	14.9	12.7	19.1

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: 42.207 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Instrument :

BNA_F

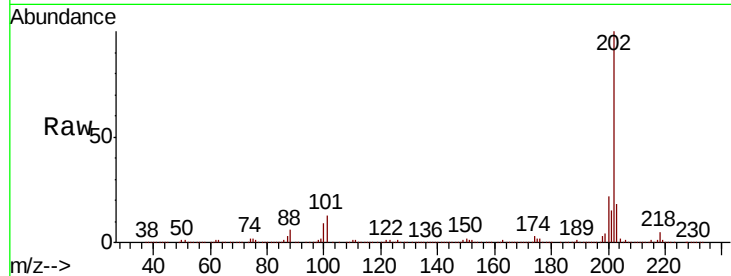
ClientSampleId :

AOC-7(4)DL

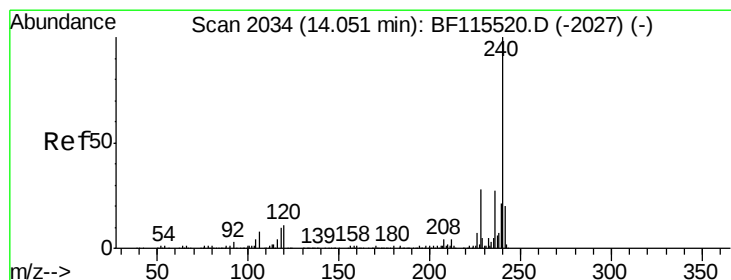
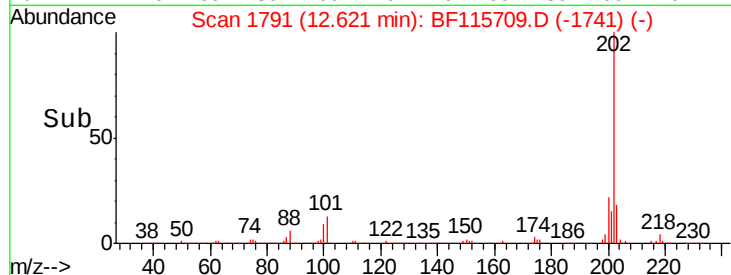
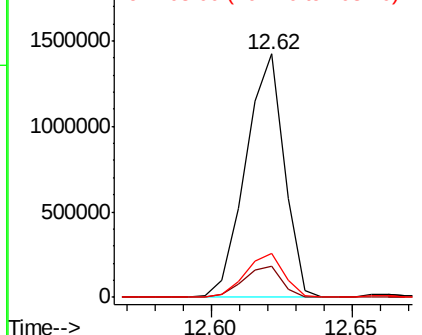
Tot Ion:	202	Resp:	1342259
Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	31.4
203	18.2	0.0	38.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

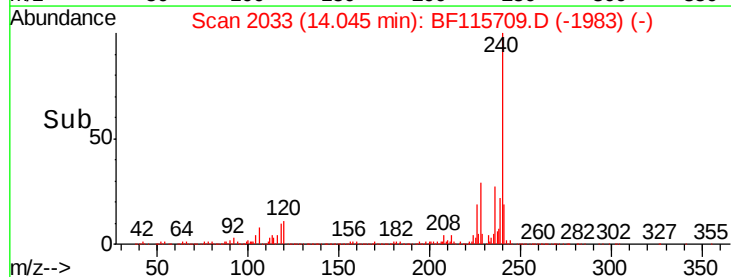
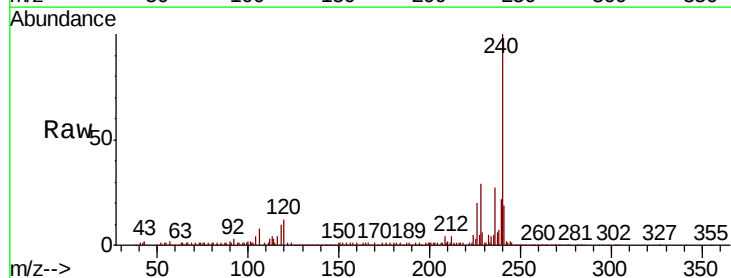
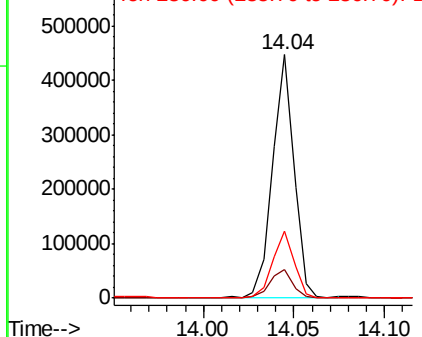
Delta R.T. -0.01 min

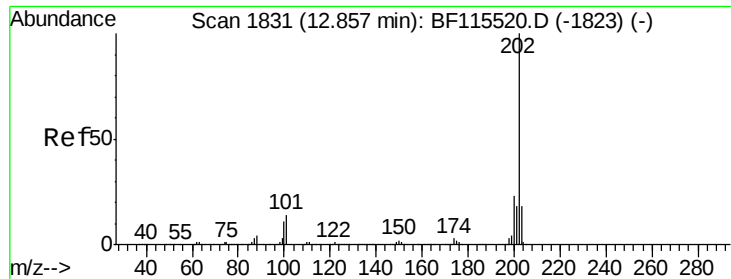
Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Tgt Ion:	240	Resp:	368093
Ion	Ratio	Lower	Upper
240	100		
120	11.6	8.6	13.0
236	27.4	21.3	31.9

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 60.157 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Instrument :

BNA_F

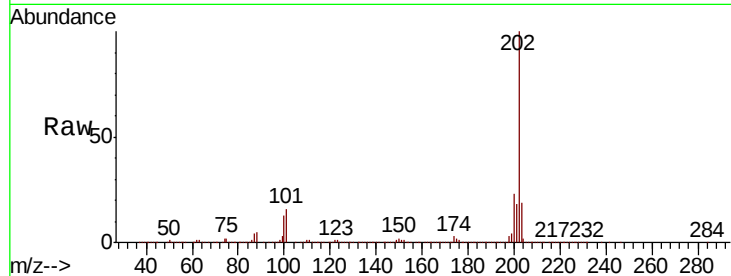
ClientSampleId :

AOC-7(4)DL

Tot Ion:	202	Resp:	1876084
Ion	Ratio	Lower	Upper
202	100		
200	23.3	18.7	28.1
203	18.6	15.2	22.8

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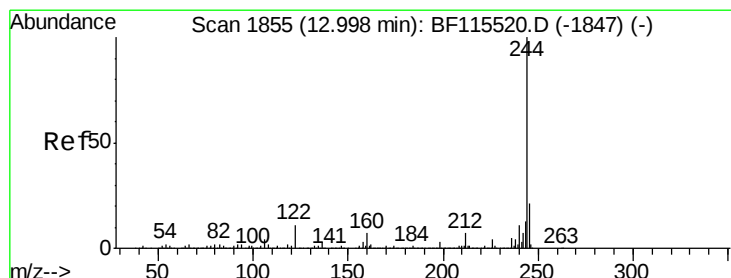
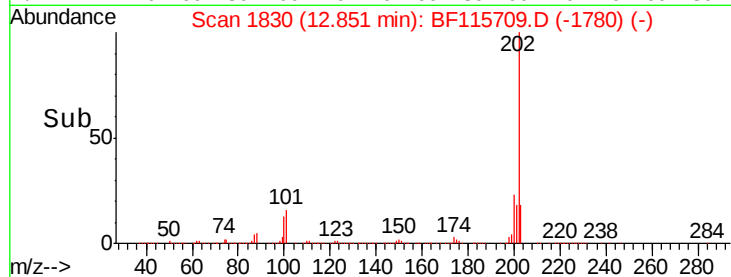
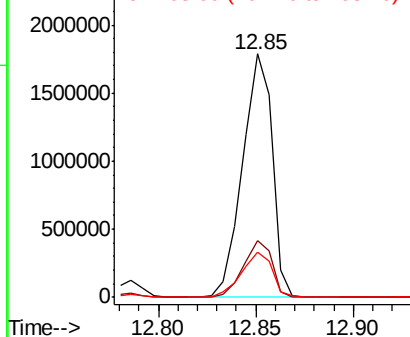


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 33.985 ng

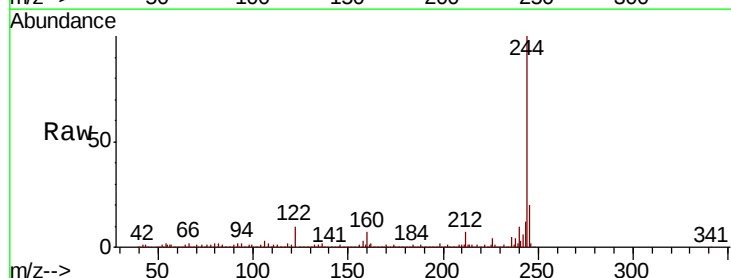
RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Tgt Ion:	244	Resp:	677963
Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	10.4	8.6	12.8

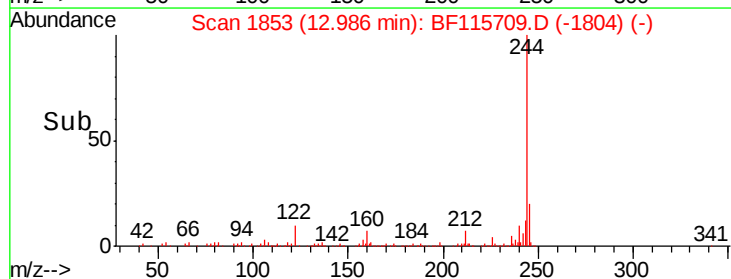
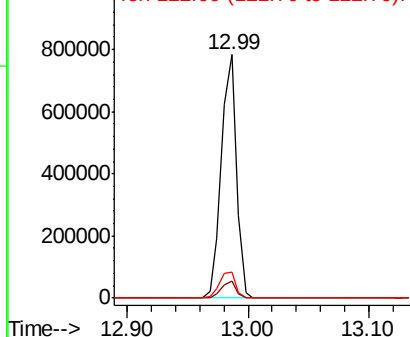


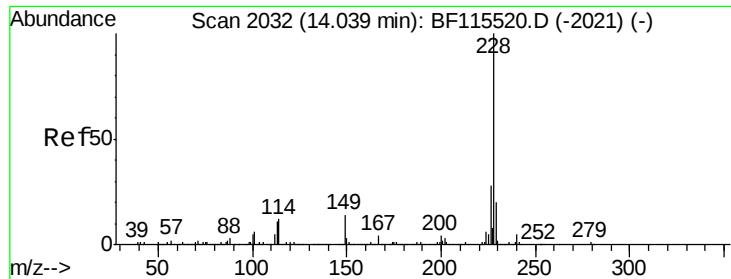
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 28.953 ng m

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Instrument :

BNA_F

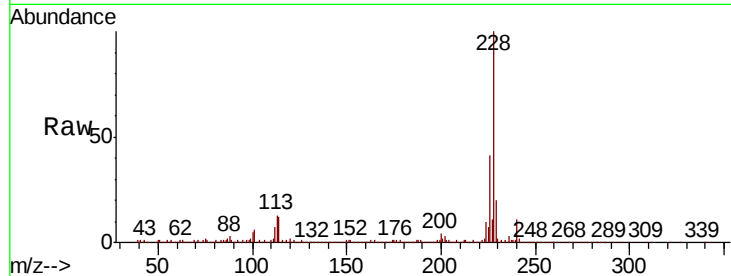
ClientSampled :

AOC-7(4)DL

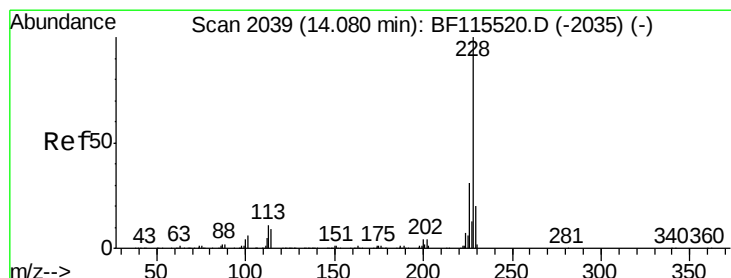
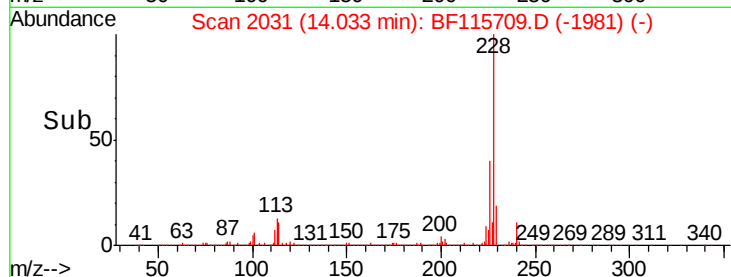
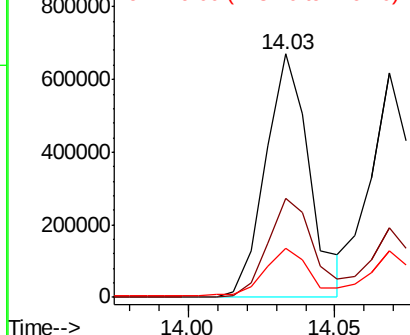
Tot Ion:	228	Resp:	702102
Ion Ratio	Lower	Upper	
228	100		
226	40.7	23.4	35.0#
229	19.9	17.2	25.8

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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: 23.638 ng

RT: 14.07 min Scan# 2037

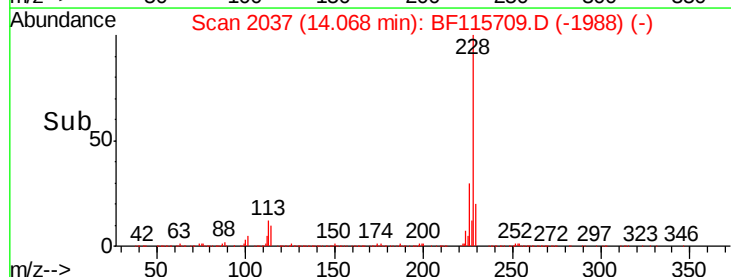
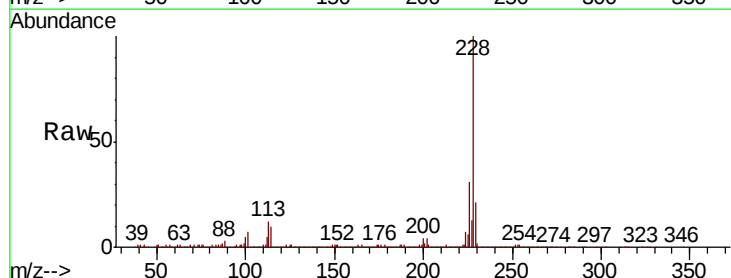
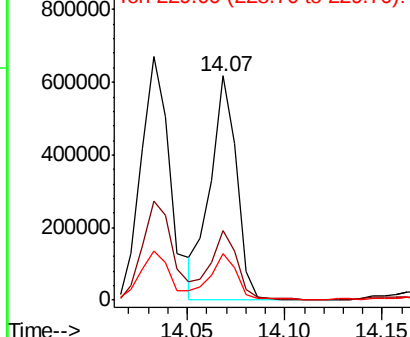
Delta R.T. -0.01 min

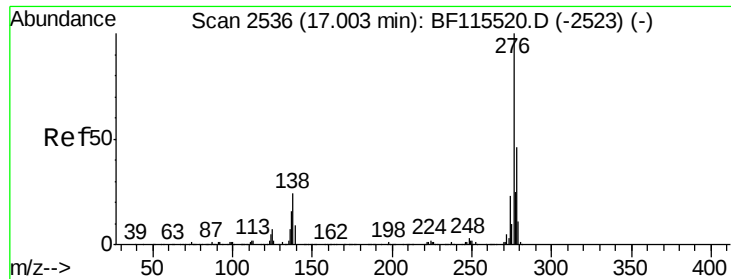
Lab File: BF115709.D

Acq: 22 Jul 2019 15:12

Tgt Ion:	228	Resp:	575425
Ion Ratio	Lower	Upper	
228	100		
226	30.9	25.7	38.5
229	20.8	16.6	25.0

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





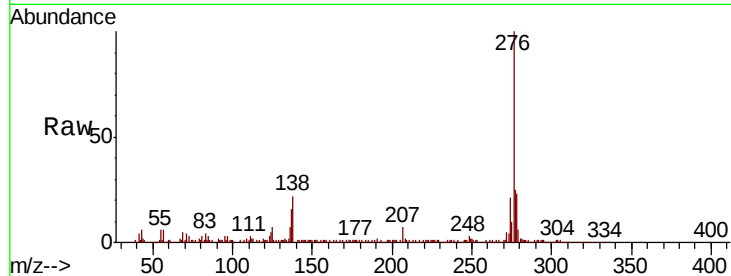
#86
Indeno(1,2,3-cd)pyrene
Concen: 9.908 ng
RT: 17.00 min Scan# 2535
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.3	20.2	30.2
277	24.0	20.4	30.6

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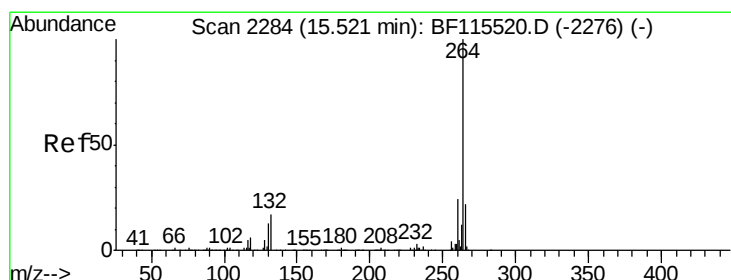
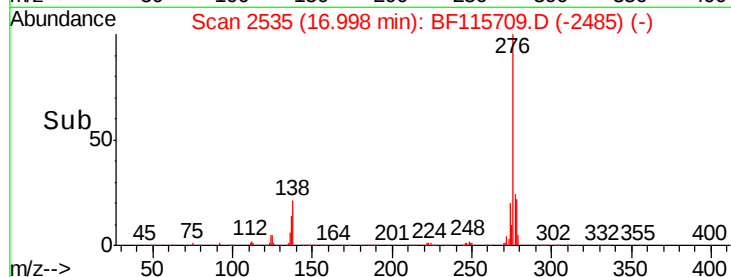
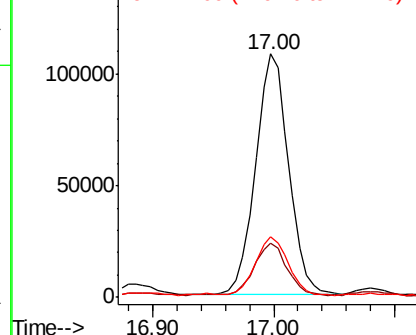


Abundance

Ion 276.00 (275.70 to 276.70): E

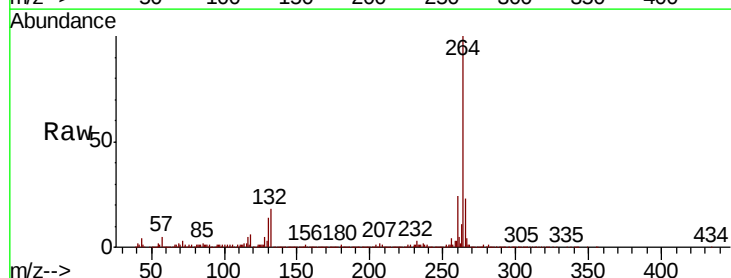
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2284
Delta R.T. 0.00 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.8	29.8
265	22.9	17.7	26.5

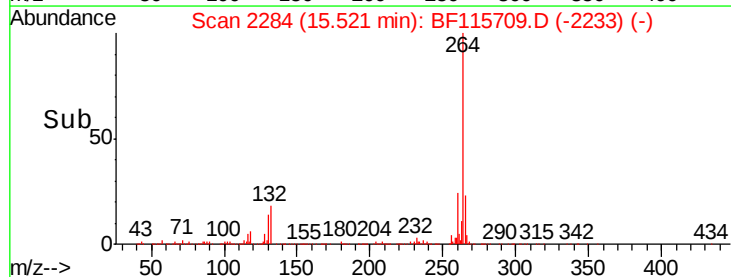
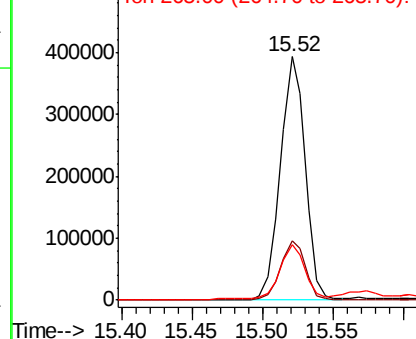


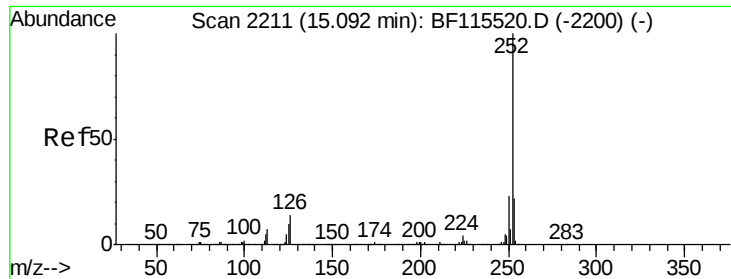
Abundance

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





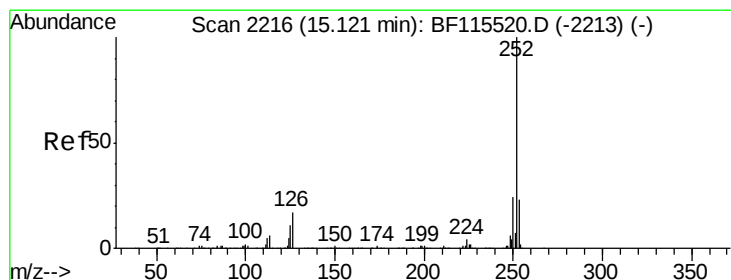
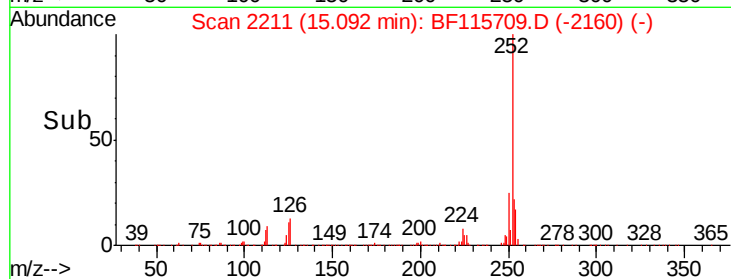
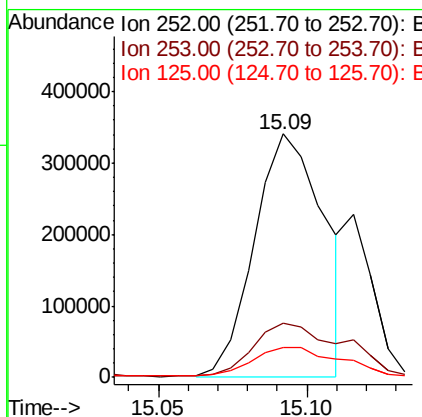
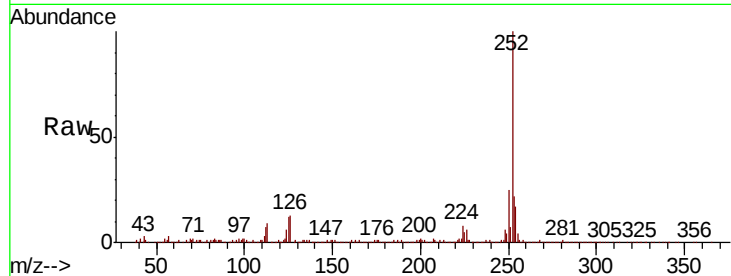
#88
Benzo(b)fluoranthene
Concen: 17.901 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.00 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.1	27.1
125	12.1	9.0	13.4

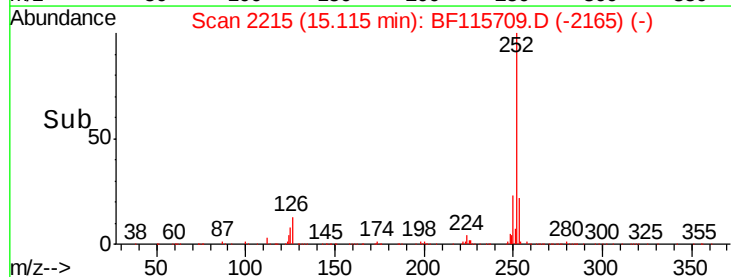
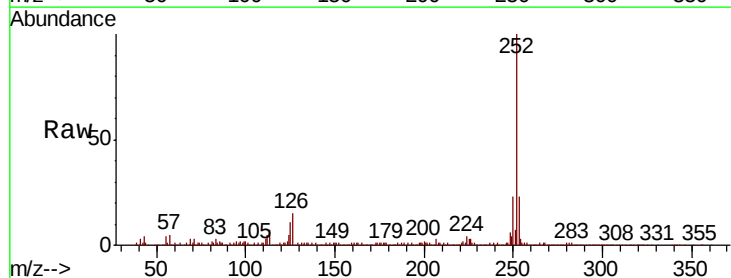
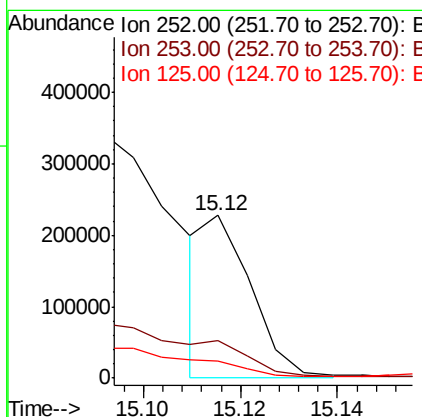
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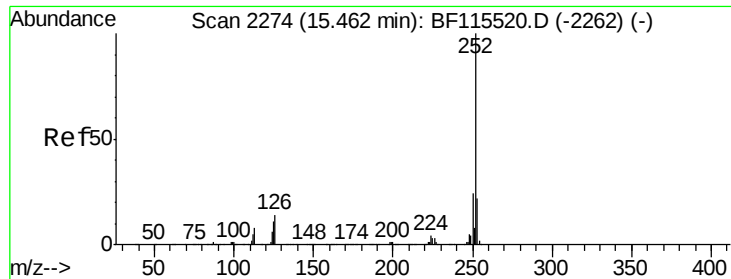
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#89
Benzo(k)fluoranthene
Concen: 5.418 ng m
RT: 15.12 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.6	28.0
125	10.6	9.0	13.6





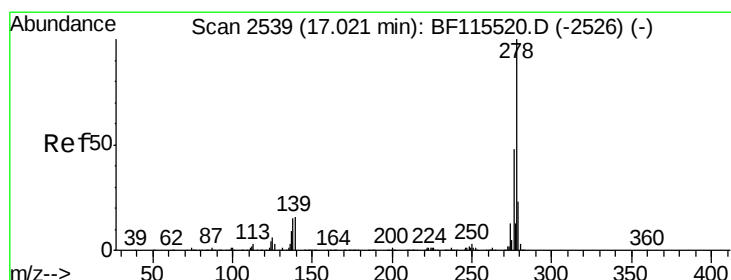
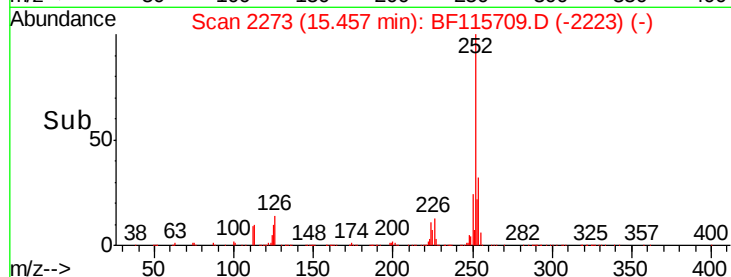
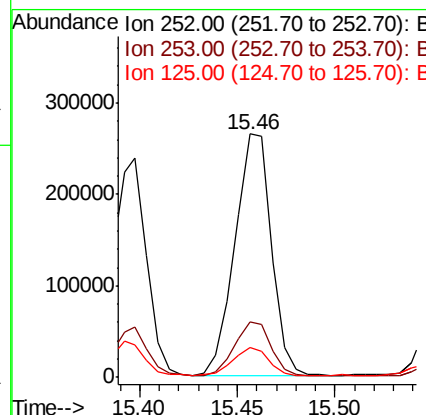
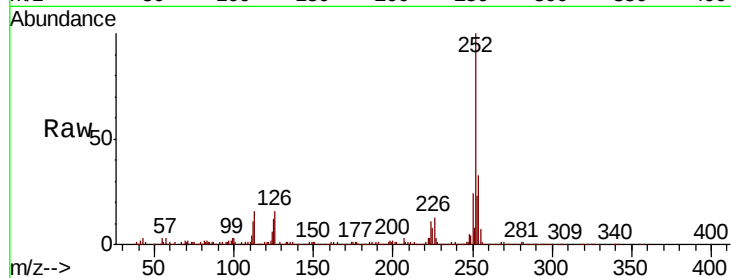
#90
Benzo(a)pyrene
Concen: 12.848 ng
RT: 15.46 min Scan# 2273
Delta R.T. -0.01 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Instrument :
BNA_F
ClientSampleId :
AOC-7(4)DL

Tot Ion:	252	Resp:	343314
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.8	26.6
125	12.2	9.1	13.7

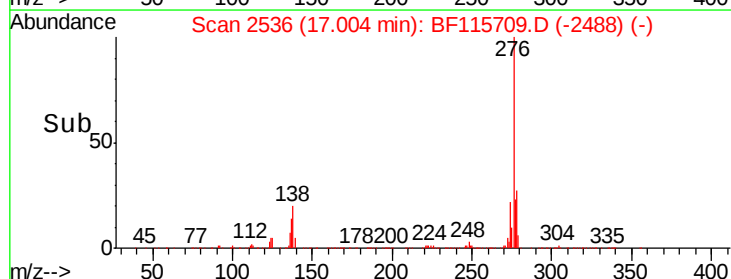
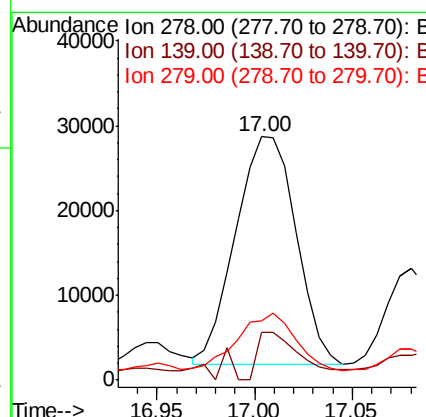
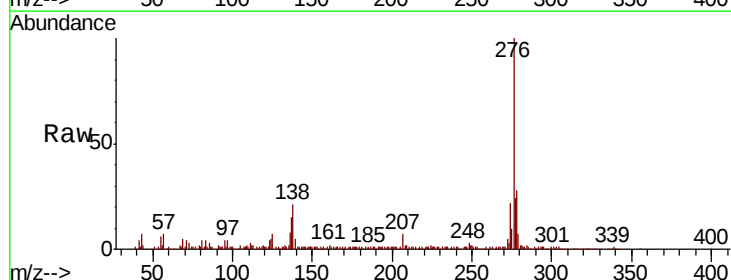
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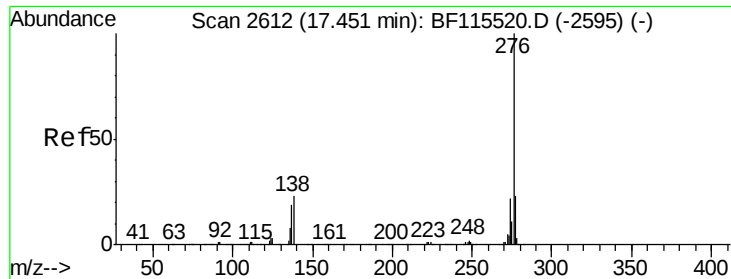
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#91
Dibenzo(a,h)anthracene
Concen: 2.466 ng
RT: 17.00 min Scan# 2536
Delta R.T. -0.02 min
Lab File: BF115709.D
Acq: 22 Jul 2019 15:12

Tgt Ion:	278	Resp:	57836
Ion Ratio	Lower	Upper	
278	100		
139	19.6	13.1	19.7
279	24.3	19.6	29.4





#92
 Benzo(a,h,i)perylene
 Concen: 7.753 ng
 RT: 17.44 min Scan# 2611
 Delta R.T. -0.01 min
 Lab File: BF115709.D
 Acq: 22 Jul 2019 15:12

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(4)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.0	28.4
138	22.5	17.2	25.8

Manual Integrations
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