

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091619\
 Data File : BF117068.D
 Acq On : 16 Sep 2019 17:31
 Operator : HP/JU
 Sample : K4850-02DL 20X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

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

Manual Integrations
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Quant Time: Sep 17 06:49:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 13 16:23:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	53659	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	237156	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	115248	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	161541	20.00	ng	0.00
76) Chrysene-d12	13.97	240	113519	20.00	ng	0.00
87) Perylene-d12	15.42	264	122213	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	12302	3.58	ng	0.01
7) Phenol-d6	6.47	99	19823	4.46	ng	0.01
23) Nitrobenzene-d5	7.39	82	10796	2.39	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	3761	3.90	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	25229	3.42	ng	0.00
79) Terphenyl-d14	12.91	244	19782	3.26	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.13	128	55671	4.881	ng	99
37) 2-Methylnaphthalene	8.82	142	18391	2.394	ng	94
38) 1-Methylnaphthalene	8.91	142	41013	5.701	ng	97
49) Acenaphthylene	9.72	152	69828	6.533	ng	96
52) Acenaphthene	9.88	154	20390	3.218	ng	98
58) Fluorene	10.40	166	31316	4.159	ng	95
71) Phenanthrene	11.36	178	110905	12.087	ng	99
72) Anthracene	11.41	178	45386	4.845	ng	97
75) Fluoranthene	12.54	202	229941	24.390	ng	98
78) Pyrene	12.77	202	435350	45.706	ng	99
81) Benzo(a)anthracene	13.96	228	169965m	22.410	ng	
83) Chrysene	13.99	228	165042	22.311	ng	99
86) Indeno(1,2,3-cd)pyrene	16.84	276	35411m	6.562	ng	
88) Benzo(b)fluoranthene	15.00	252	111518m	15.064	ng	
89) Benzo(k)fluoranthene	15.02	252	31289m	4.462	ng	
90) Benzo(a)pyrene	15.36	252	106408	16.380	ng	97
91) Dibenzo(a,h)anthracene	16.85	278	12229	2.363	ng	93
92) Benzo(g,h,i)perylene	17.28	276	36810	7.138	ng	96

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

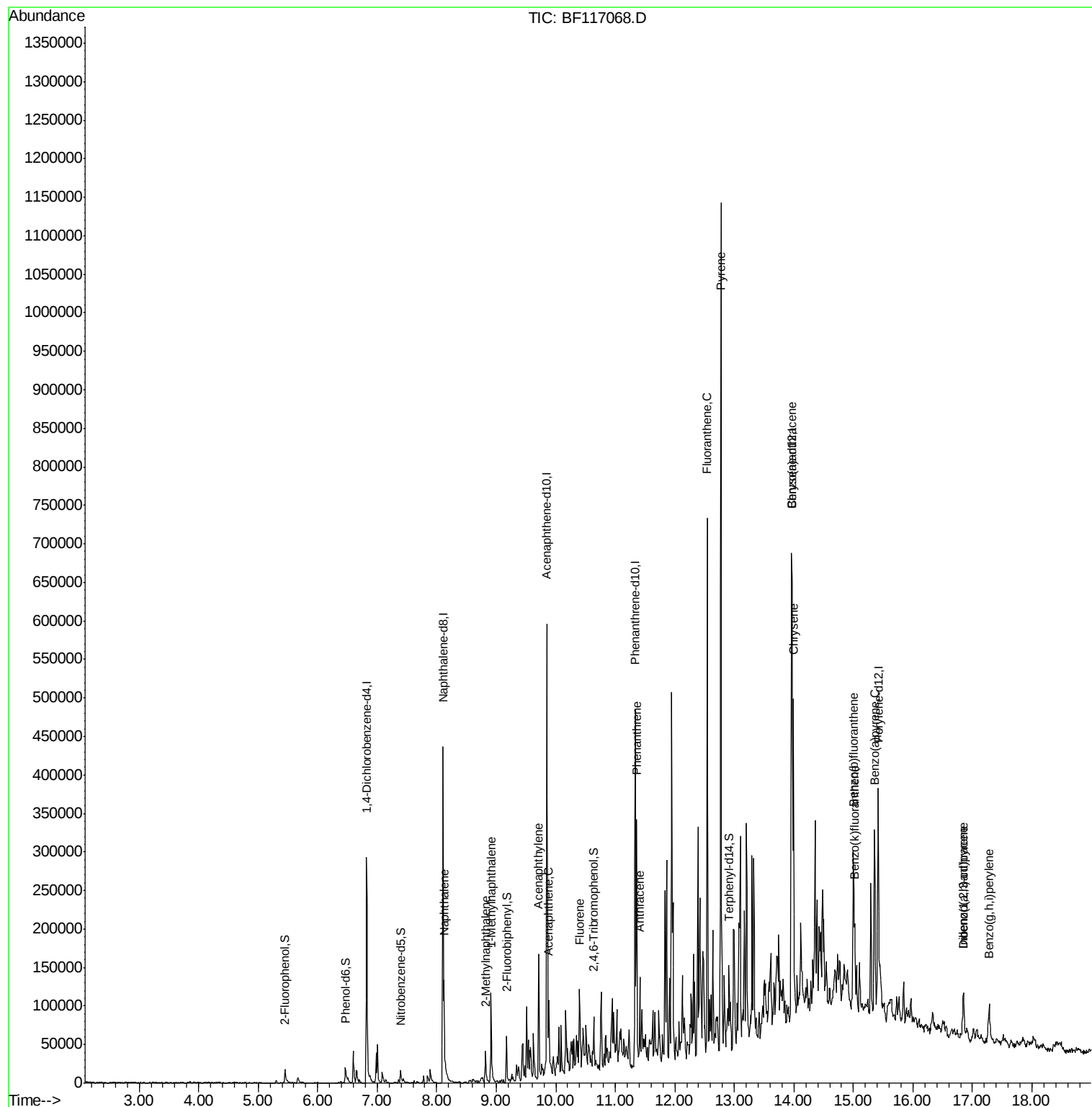
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091619\
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ALS Vial : 21 Sample Multiplier: 1

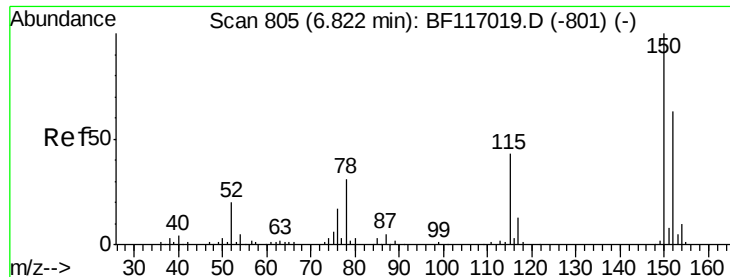
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 13 16:23:17 2019
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#1

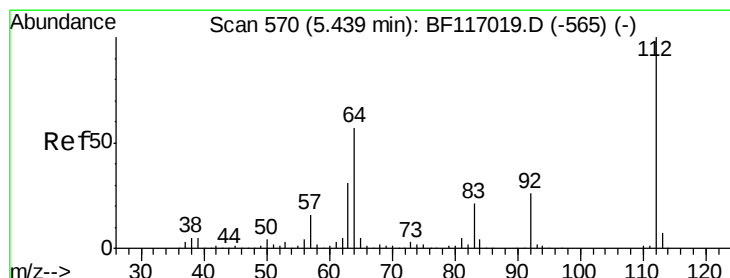
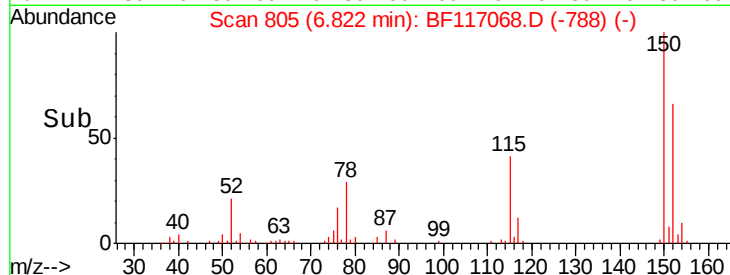
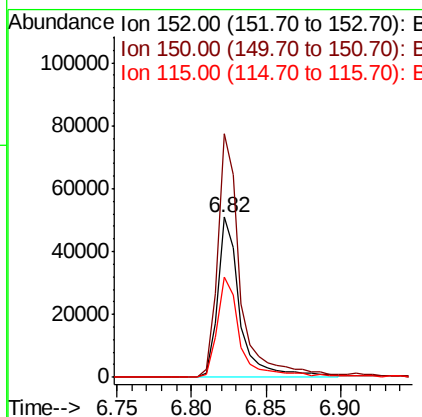
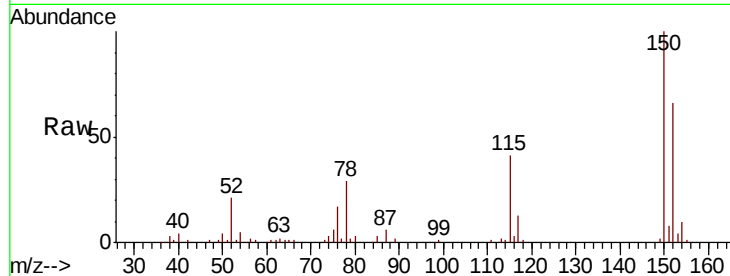
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	127.5	191.3
115	62.2	55.0	82.4

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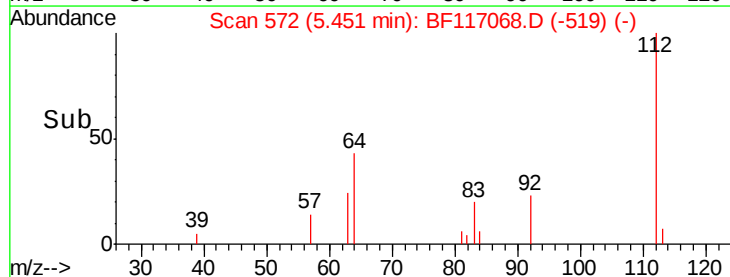
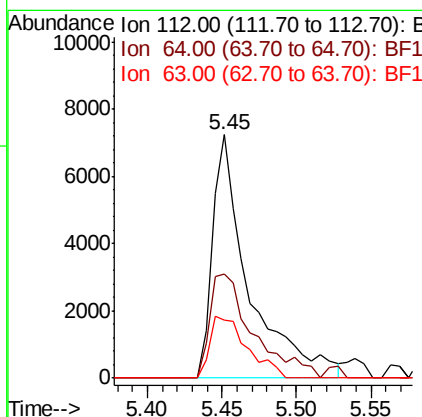
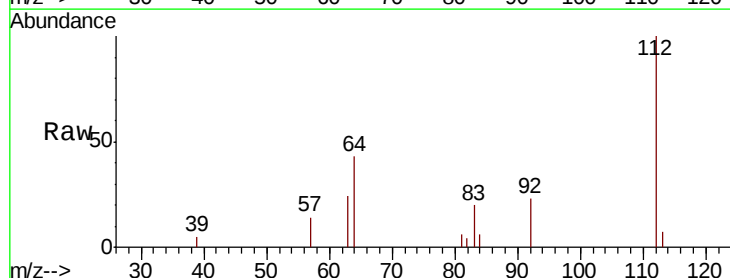
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#5

2-Fluorophenol
Concen: 3.579 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.8	45.7	68.5#
63	23.8	24.9	37.3#





#7

Phenol-d6

Concen: 4.463 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Instrument :

BNA_F

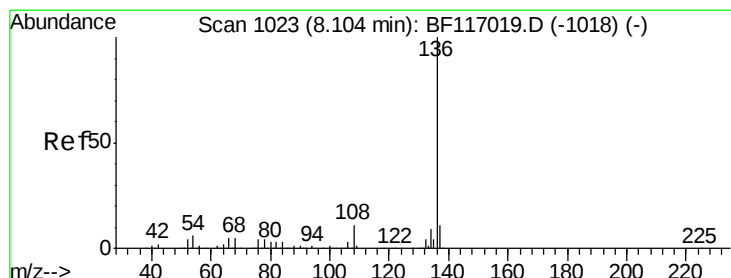
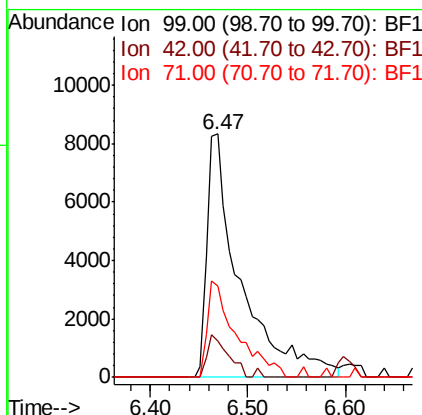
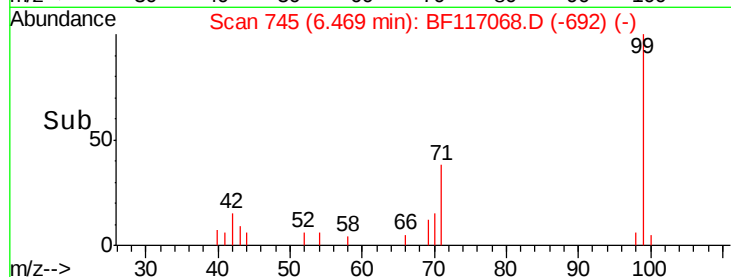
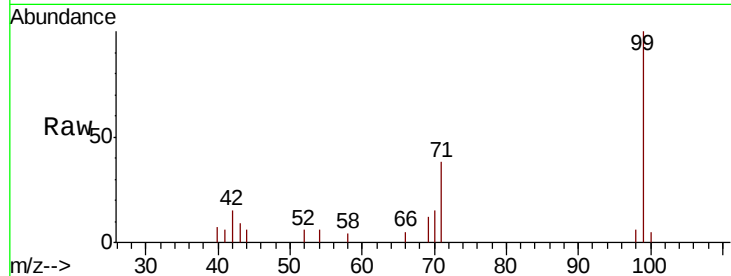
ClientSampleId :

AOC-7(6)DL

Tot Ion:	99	Resp:	19823
Ion	Ratio	Lower	Upper
99	100		
42	14.9	12.2	18.2
71	37.7	29.8	44.8

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#21

Naphthalene-d8

Concen: 20.000 ng

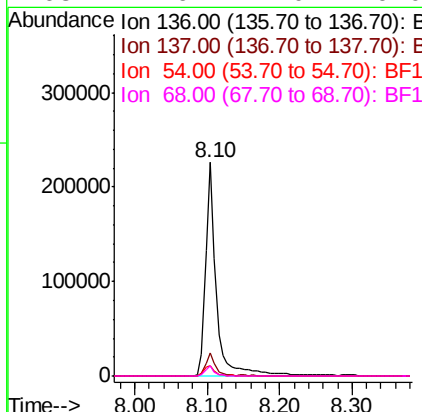
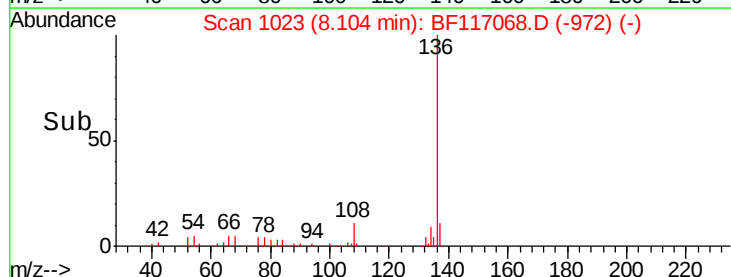
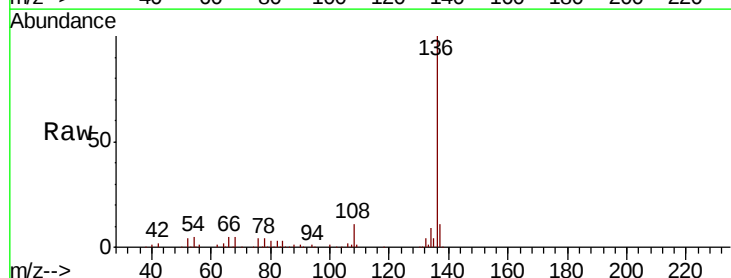
RT: 8.10 min Scan# 1023

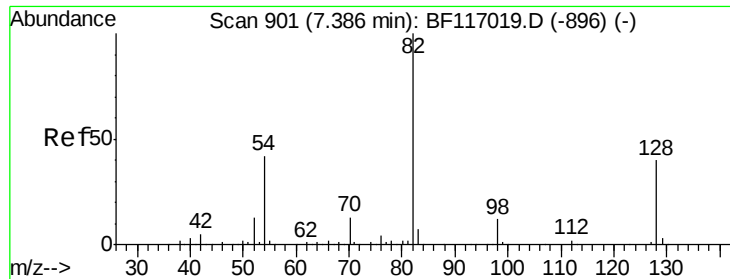
Delta R.T. 0.00 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Tgt Ion:	136	Resp:	237156
Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.4
54	4.8	4.5	6.7
68	4.6	4.0	6.0





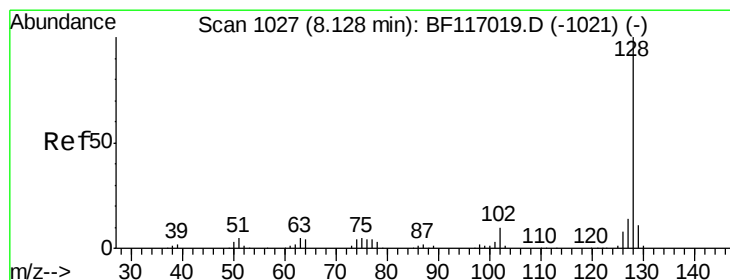
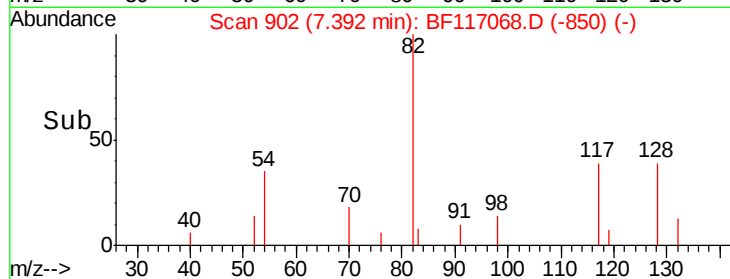
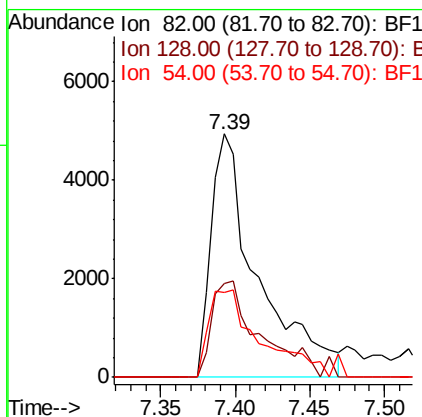
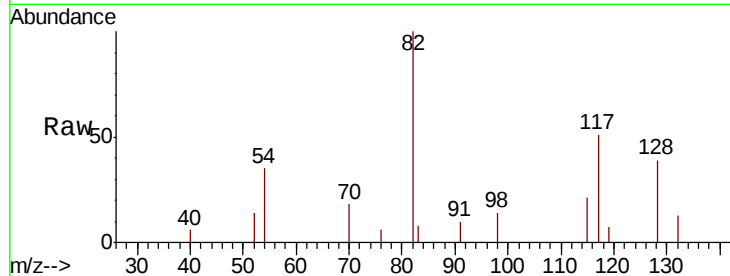
#23
 Nitrobenzene-d5
 Concen: 2.392 ng
 RT: 7.39 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: BF117068.D
 Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.7	32.3	48.5
54	34.7	33.3	49.9

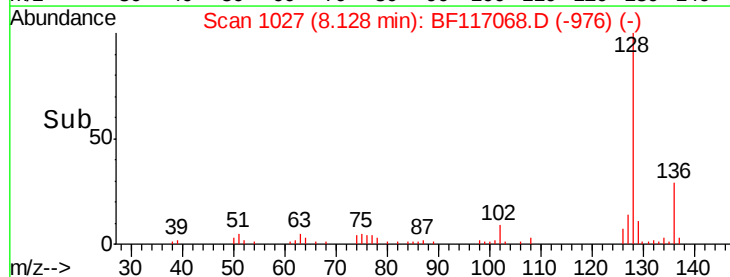
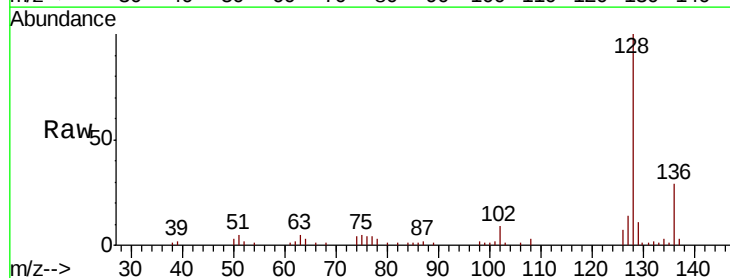
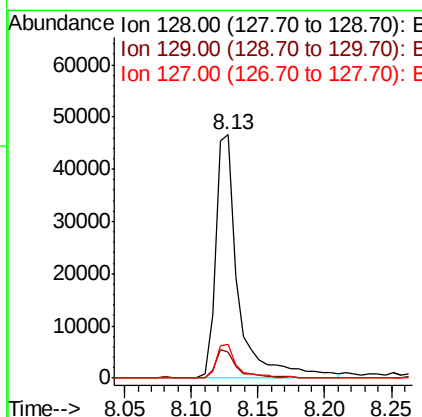
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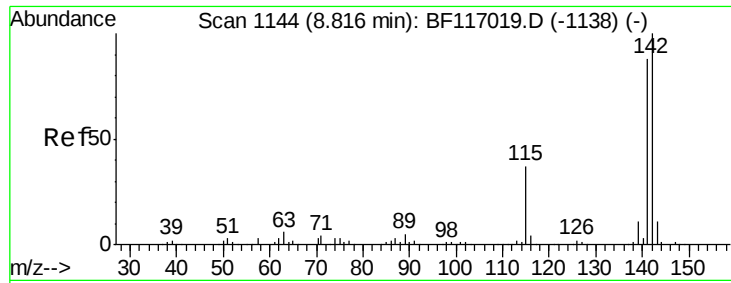
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#31
 Naphthalene
 Concen: 4.881 ng
 RT: 8.13 min Scan# 1027
 Delta R.T. 0.00 min
 Lab File: BF117068.D
 Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.4
127	13.7	10.8	16.2





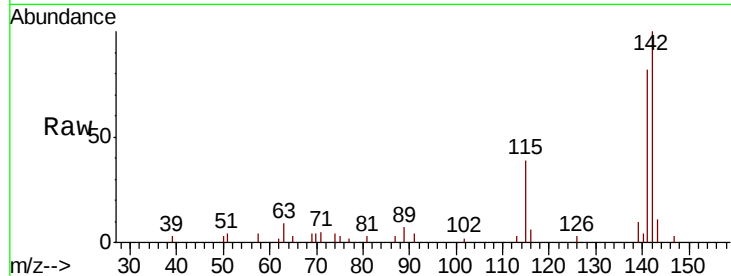
#37
2-Methylnaphthalene
Concen: 2.394 ng
RT: 8.82 min Scan# 1144
Delta R.T. 0.00 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	81.8	70.7	106.1
115	38.6	29.4	44.0

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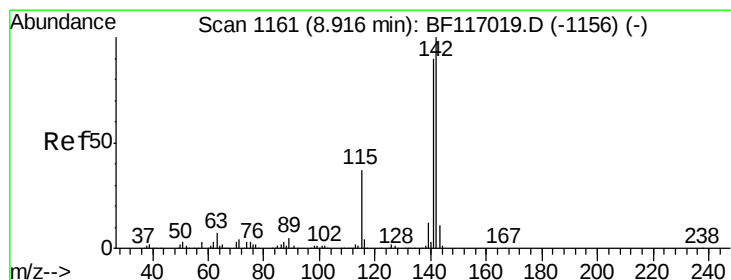
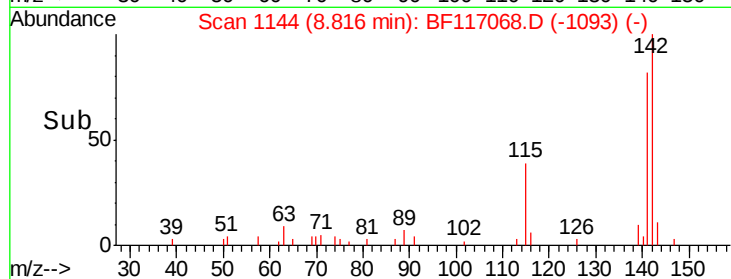
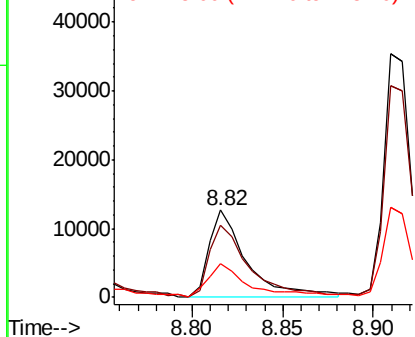


Abundance

Ion 142.00 (141.70 to 142.70): E

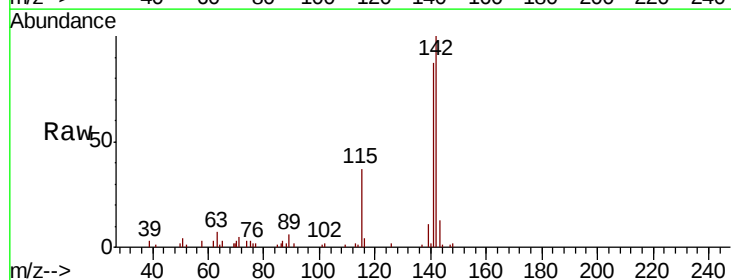
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 5.701 ng
RT: 8.91 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.8	71.9	107.9
116	4.2	3.2	4.8

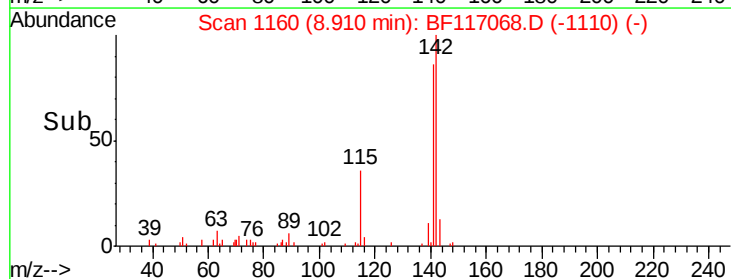
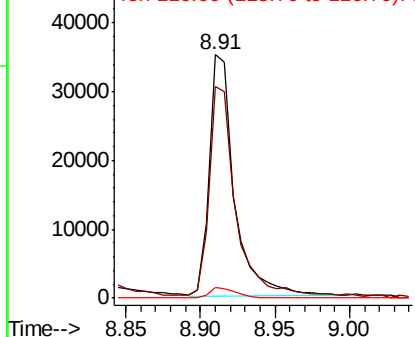


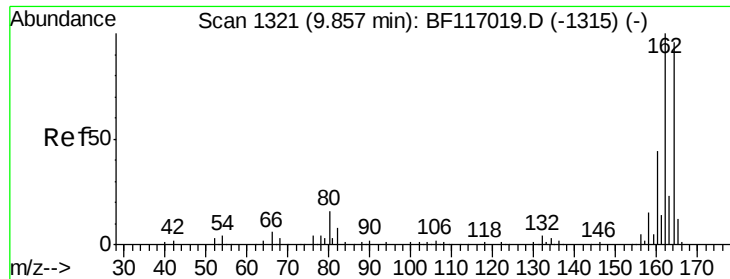
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





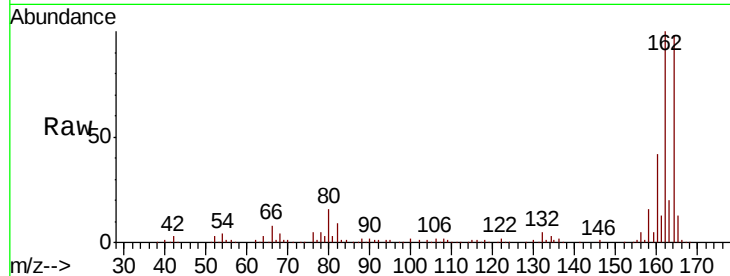
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

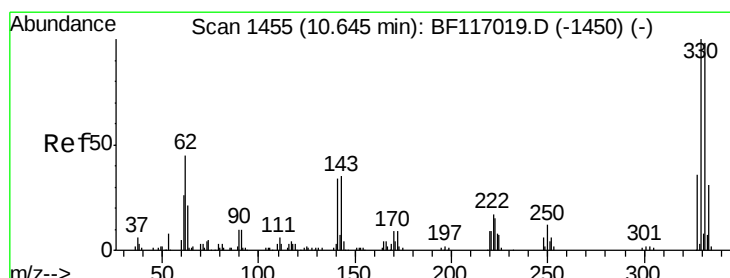
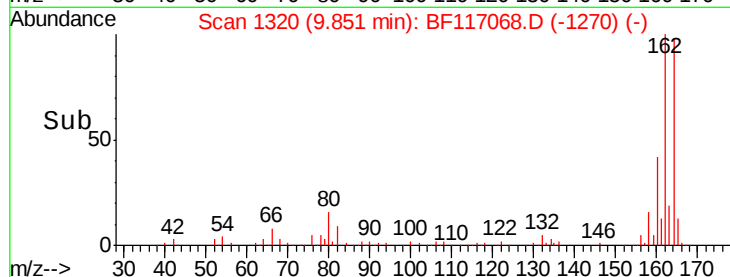
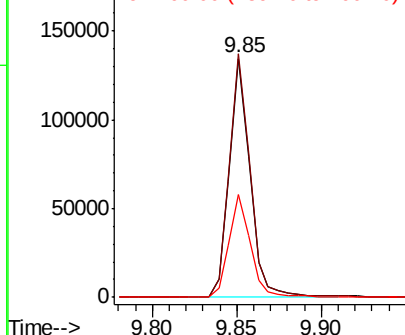
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.0	83.4	125.2	
160	43.1	36.4	54.6	

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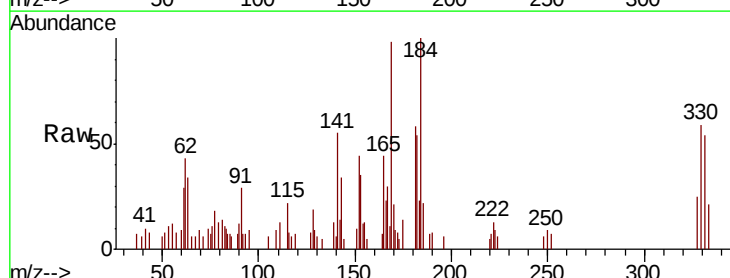


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

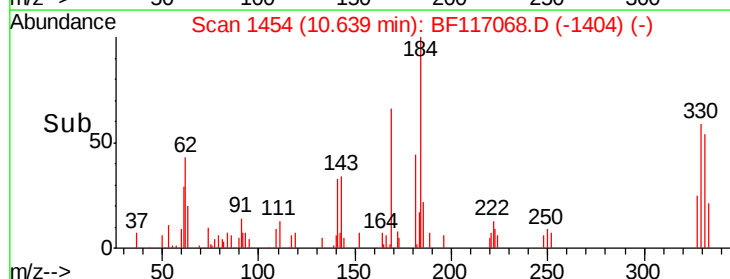
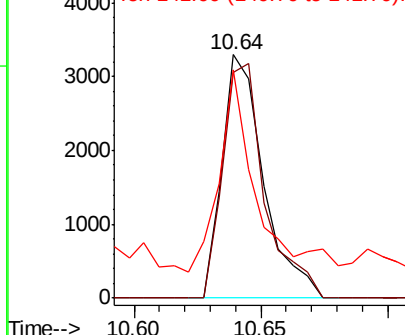


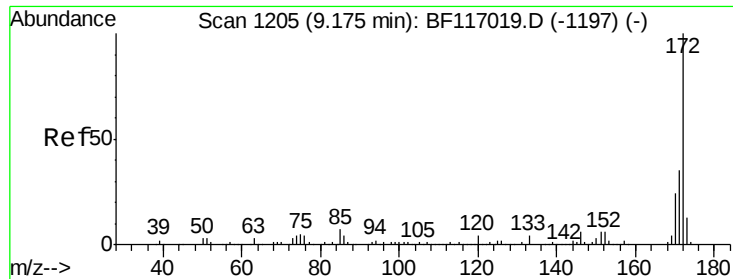
#42
2,4,6-Tribromophenol
Concen: 3.905 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.4	78.0	117.0	
141	72.9	35.8	53.6	



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





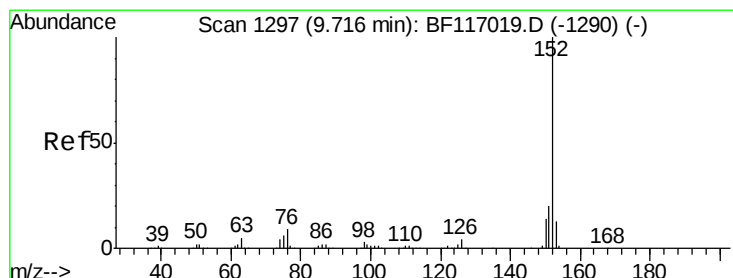
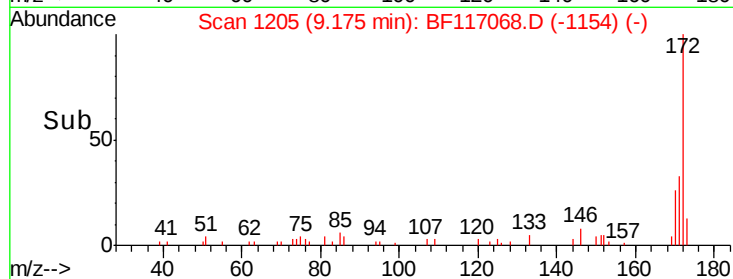
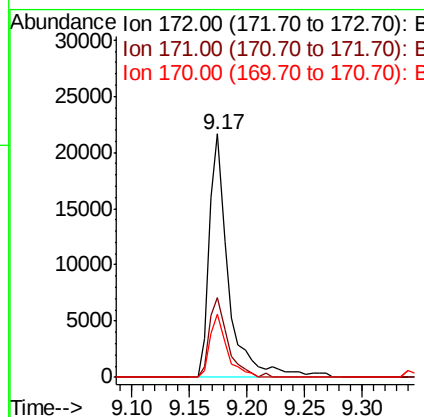
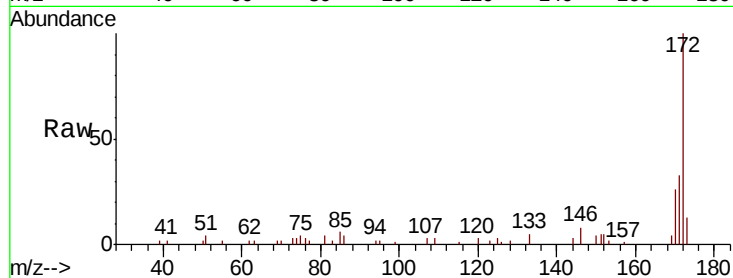
#45
2-Fluorobiphenyl
Concen: 3.423 ng
RT: 9.17 min Scan# 1205
Delta R.T. 0.00 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Lower	Upper
172	100		
171	32.8	28.2	42.2
170	25.9	18.9	28.3

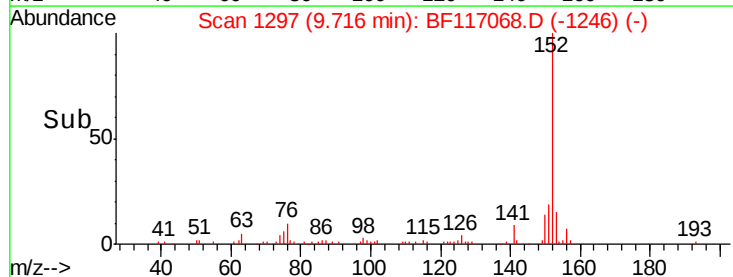
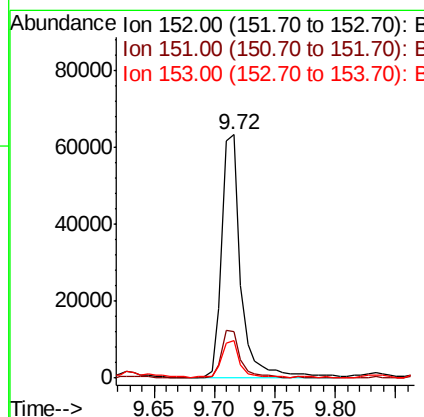
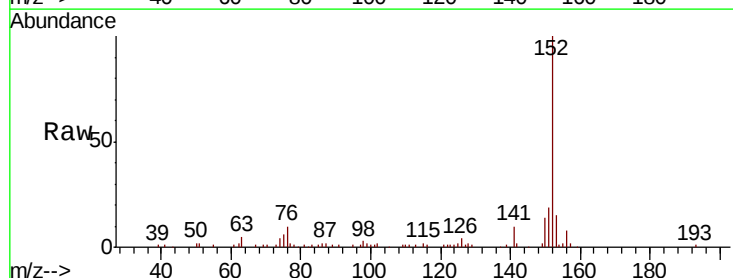
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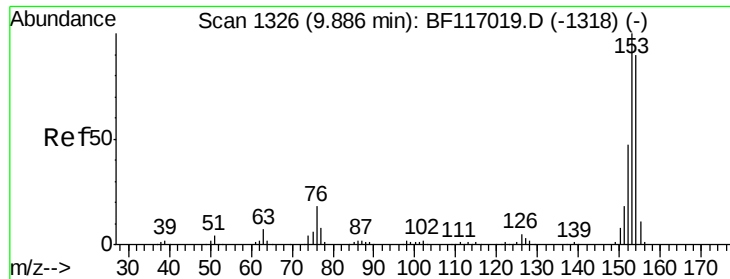
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#49
Acenaphthylene
Concen: 6.533 ng
RT: 9.72 min Scan# 1297
Delta R.T. 0.00 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.2	24.2
153	15.2	10.2	15.4





#52

Acenaphthene

Concen: 3.218 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Instrument :

BNA_F

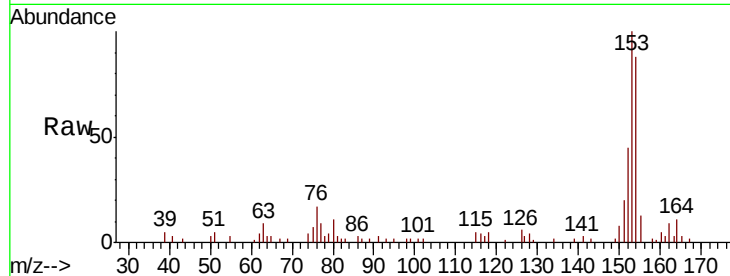
ClientSampleId :

AOC-7(6)DL

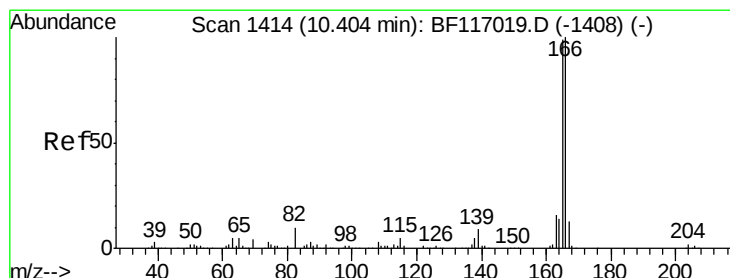
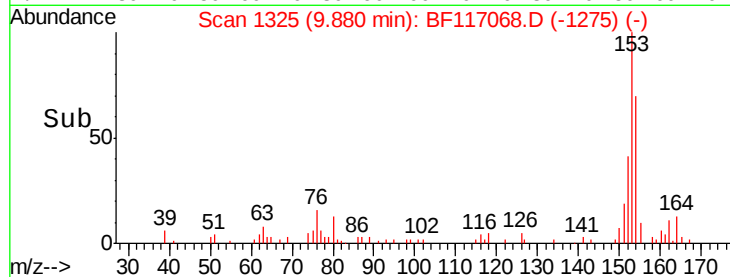
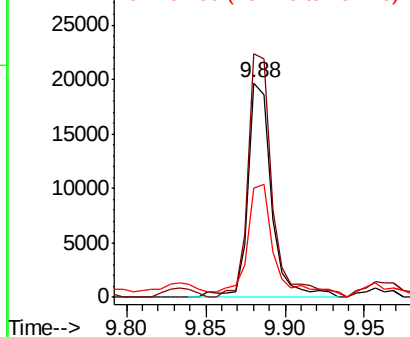
Tot Ion:	154	Resp:	20390
Ion Ratio	Lower	Upper	
154	100		
153	113.5	89.0	133.6
152	51.2	41.9	62.9

Manual Integrations
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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



#58

Fluorene

Concen: 4.159 ng

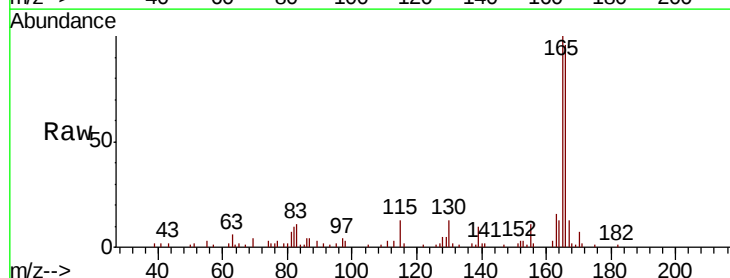
RT: 10.40 min Scan# 1413

Delta R.T. -0.01 min

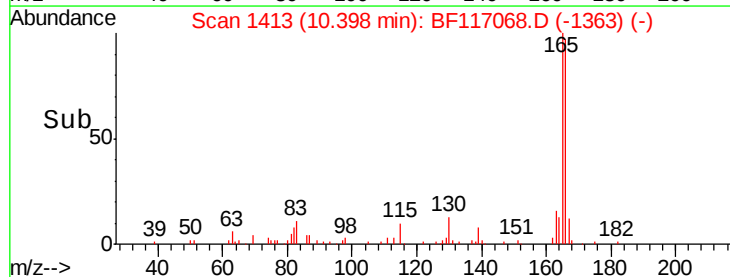
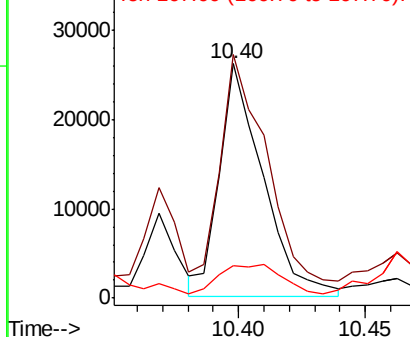
Lab File: BF117068.D

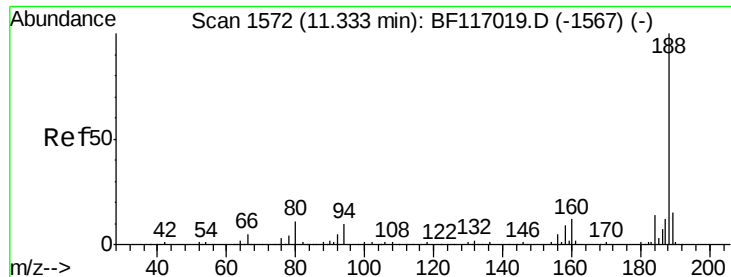
Acq: 16 Sep 2019 17:31

Tgt Ion:	166	Resp:	31316
Ion Ratio	Lower	Upper	
166	100		
165	104.0	78.9	118.3
167	13.6	10.6	15.8



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





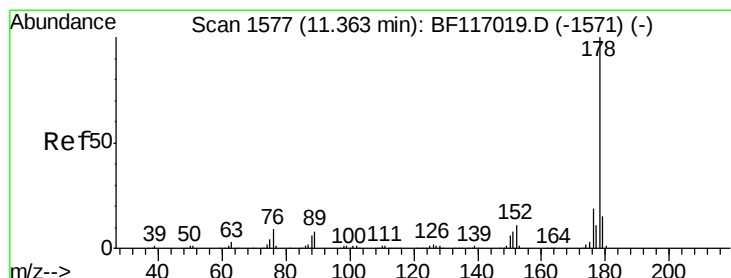
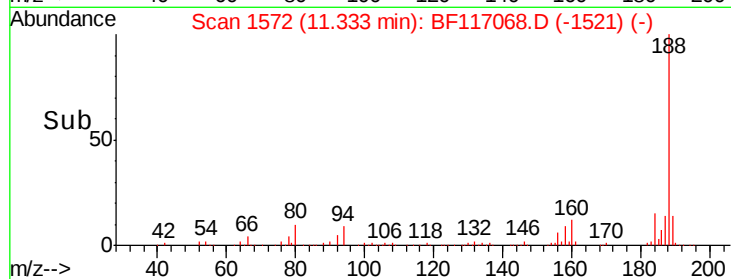
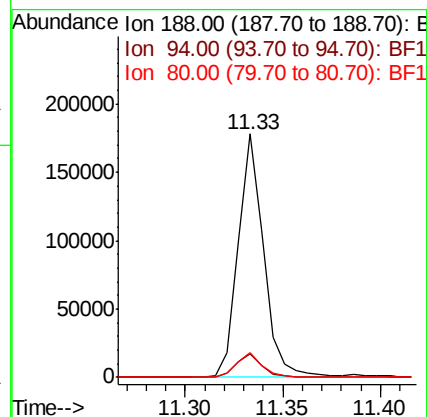
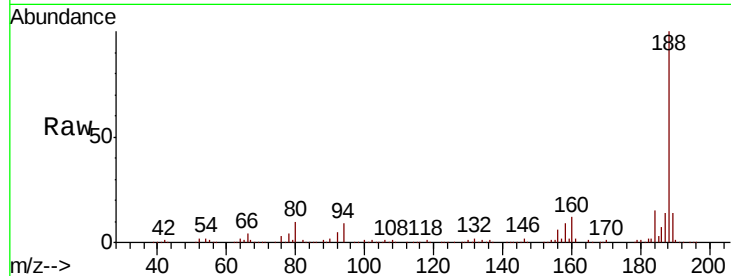
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.00 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Resp	Lower	Upper
188	100	161541		
94	9.5	8.2	12.2	
80	10.2	9.0	13.6	

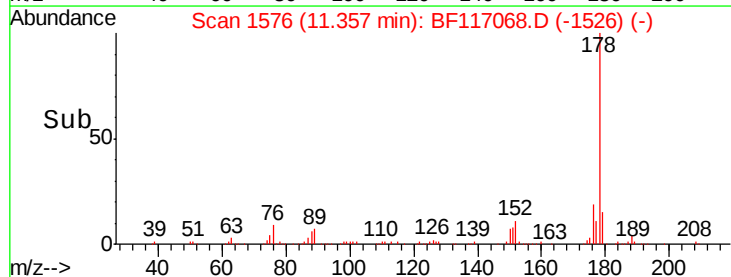
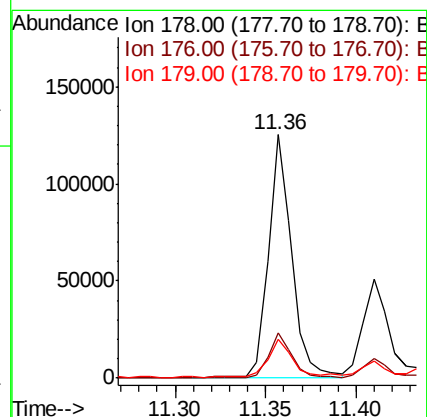
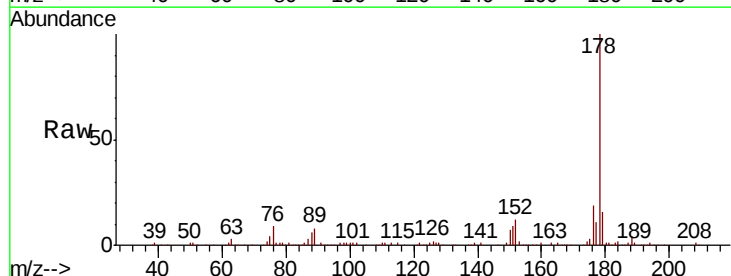
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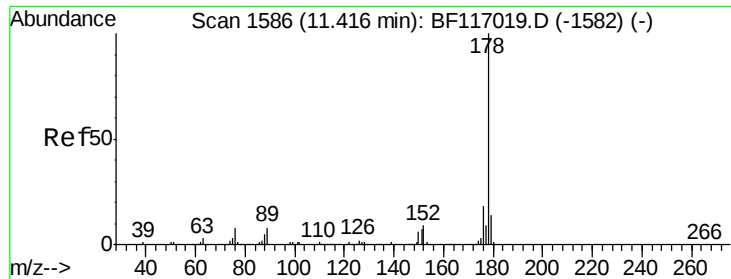
mohammad
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#71
Phenanthrene
Concen: 12.087 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	110905		
176	18.6	15.4	23.2	
179	16.1	12.4	18.6	





#72

Anthracene

Concen: 4.845 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Instrument :

BNA_F

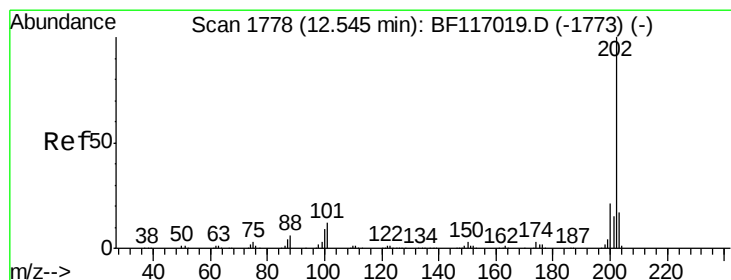
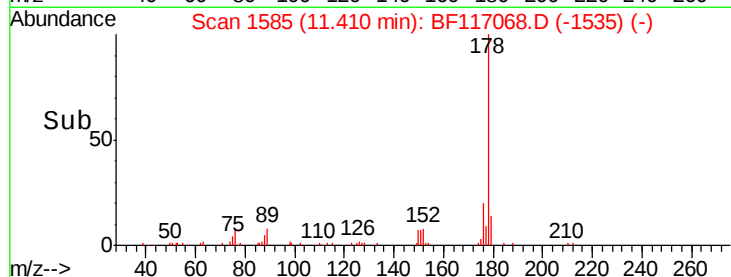
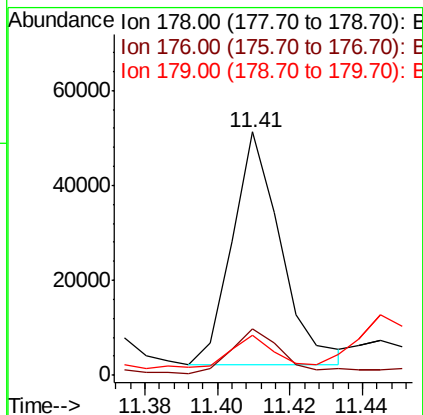
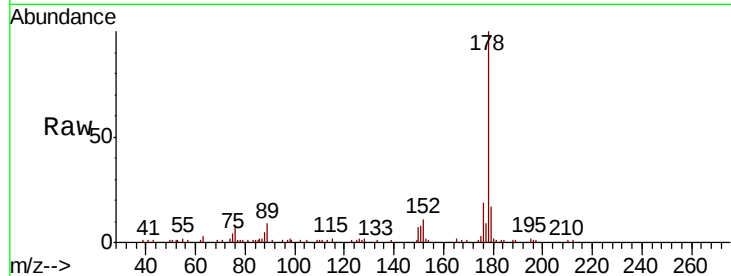
ClientSampleId :

AOC-7(6)DL

Tot Ion:	178	Resp:	45386
Ion Ratio	Lower	Upper	
178	100		
176	19.1	14.6	21.8
179	16.7	11.6	17.4

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#75

Fluoranthene

Concen: 24.390 ng

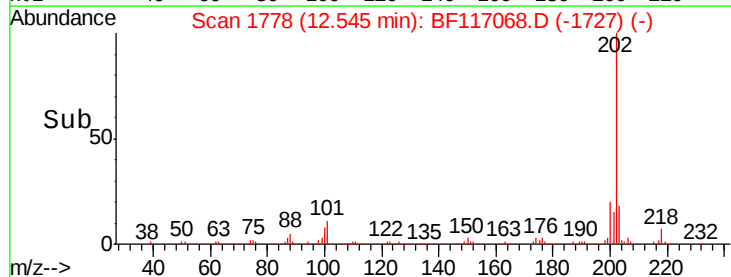
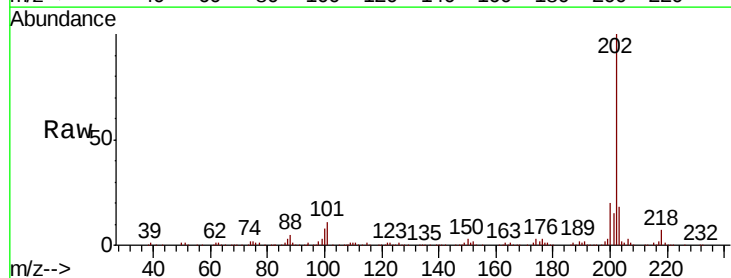
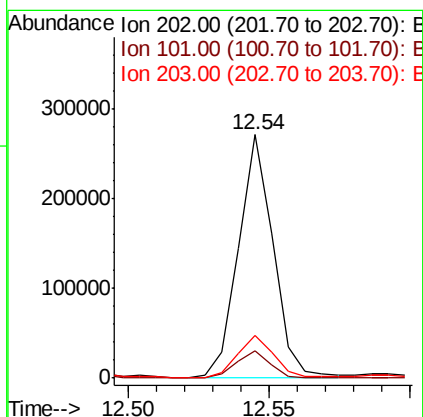
RT: 12.54 min Scan# 1778

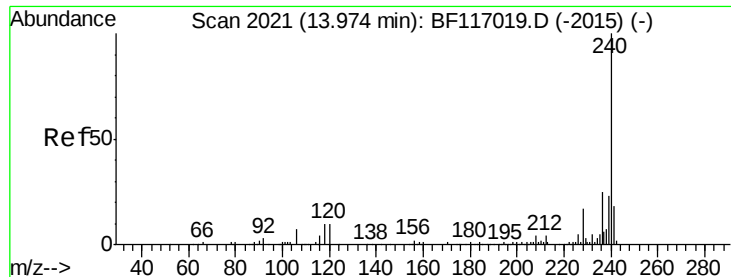
Delta R.T. 0.00 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Tgt Ion:	202	Resp:	229941
Ion Ratio	Lower	Upper	
202	100		
101	11.1	0.0	32.3
203	17.7	0.0	37.1





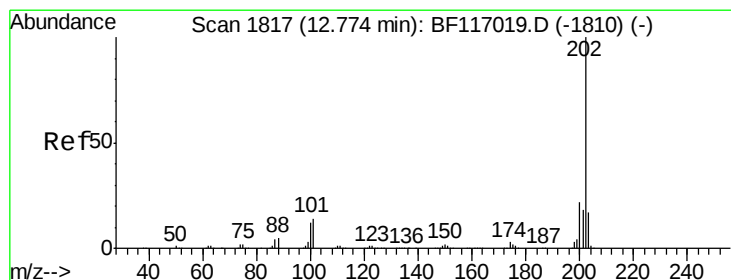
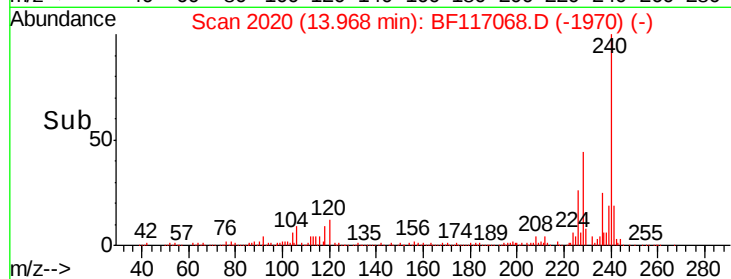
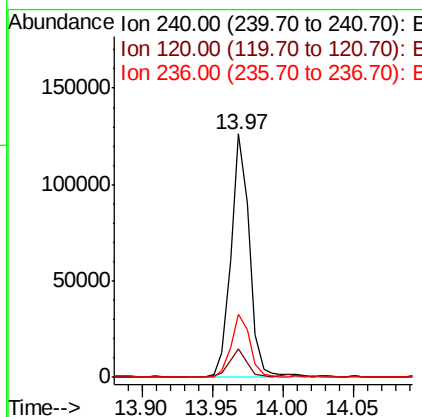
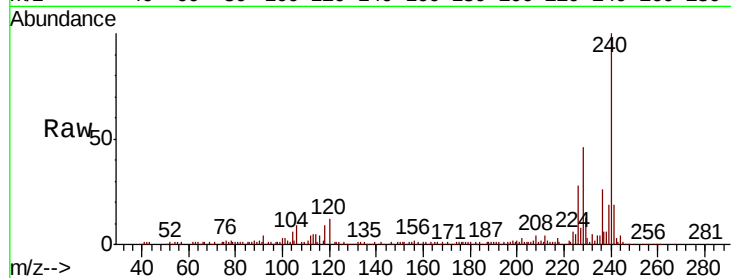
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Resp	Lower	Upper
240	100	113519		
120	11.6	8.3	12.5	
236	25.9	20.3	30.5	

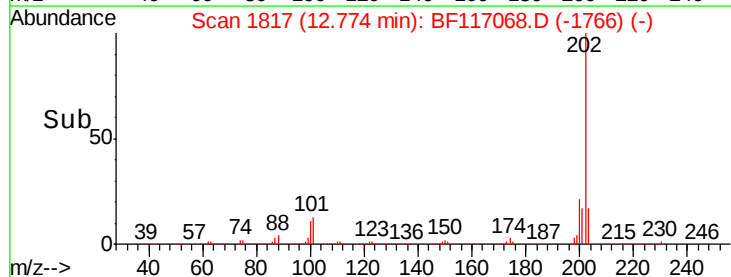
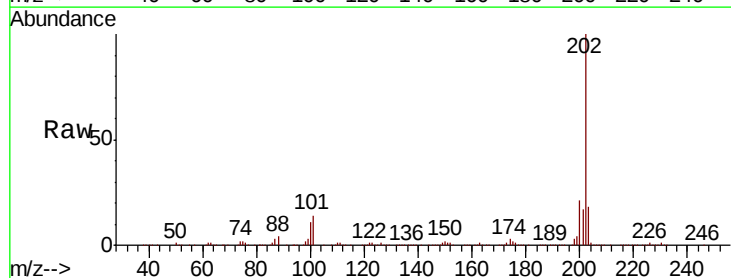
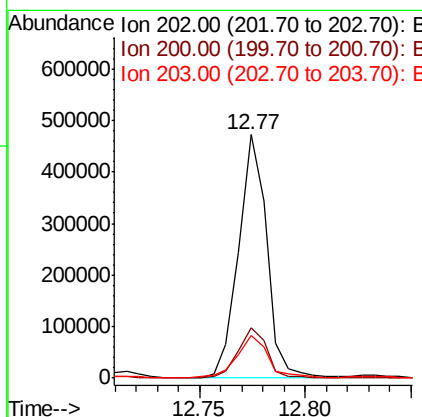
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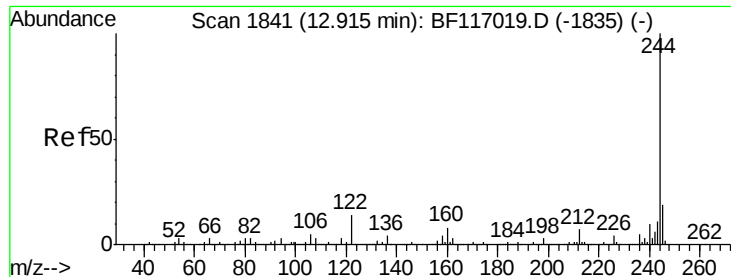
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#78
Pyrene
Concen: 45.706 ng
RT: 12.77 min Scan# 1817
Delta R.T. 0.00 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	435350		
200	20.6	17.2	25.8	
203	17.6	14.0	21.0	





#79

Terphenyl-d14

Concen: 3.257 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Instrument :

BNA_F

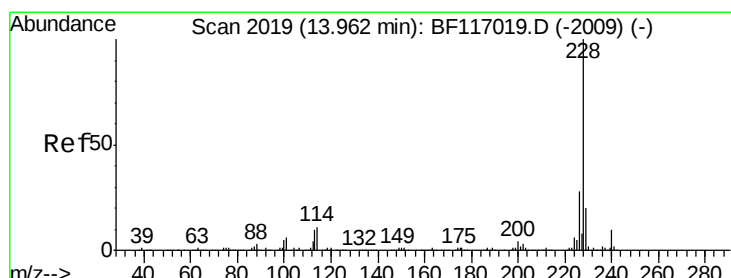
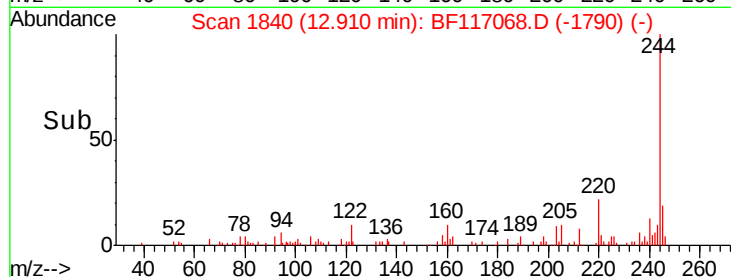
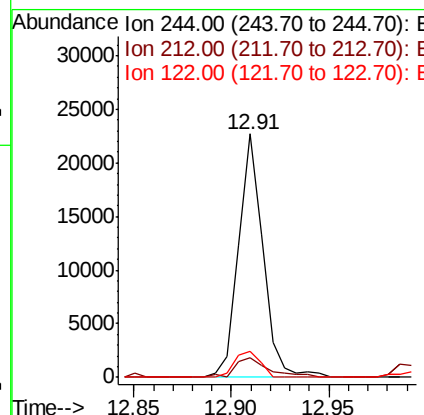
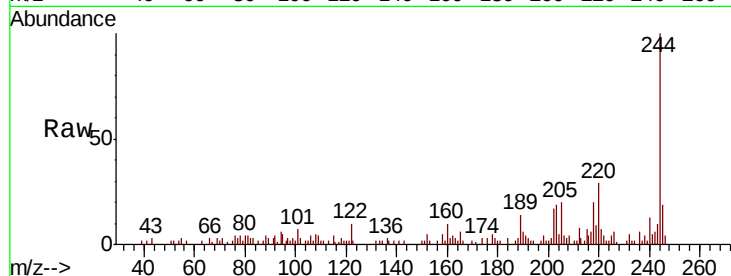
ClientSampleId :

AOC-7(6)DL

Tot Ion:	244	Resp:	19782
Ion Ratio	Lower	Upper	
244	100		
212	7.9	5.8	8.8
122	10.4	11.3	16.9#

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#81

Benzo(a)anthracene

Concen: 22.410 ng m

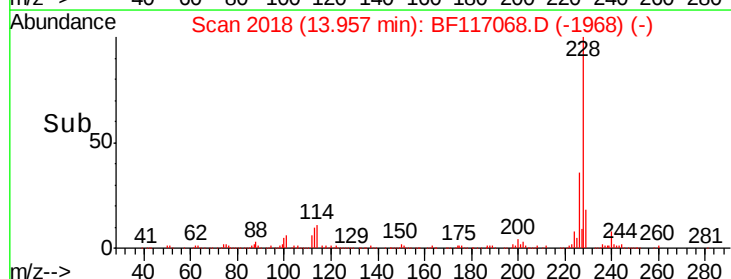
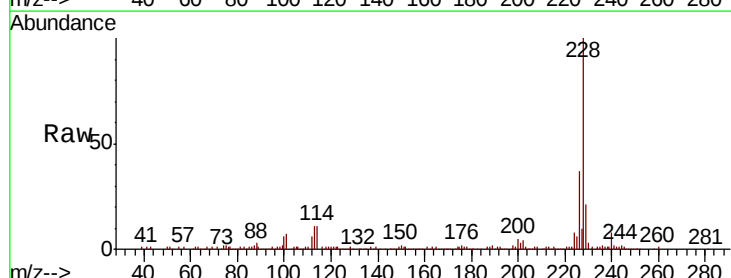
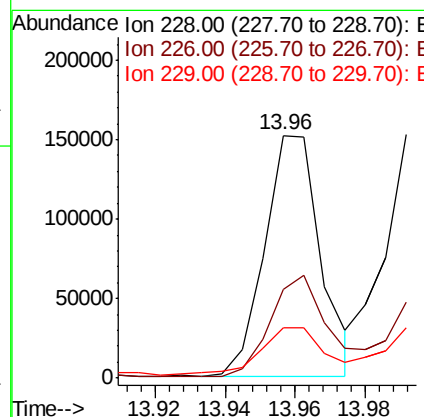
RT: 13.96 min Scan# 2018

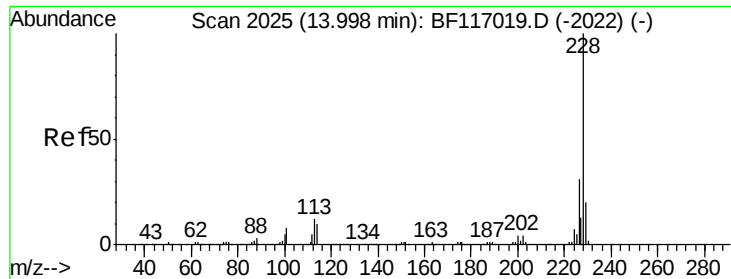
Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Tgt Ion:	228	Resp:	169965
Ion Ratio	Lower	Upper	
228	100		
226	36.6	22.3	33.5#
229	21.0	15.9	23.9





#83

Chrysene

Concen: 22.311 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Instrument :

BNA_F

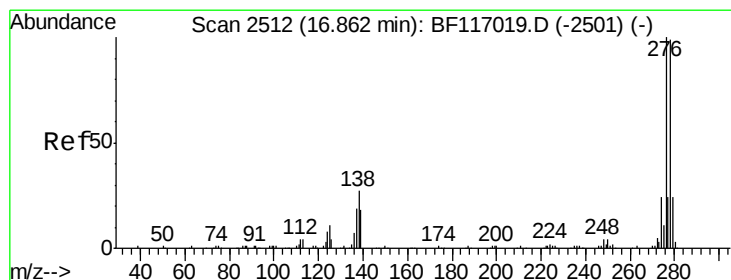
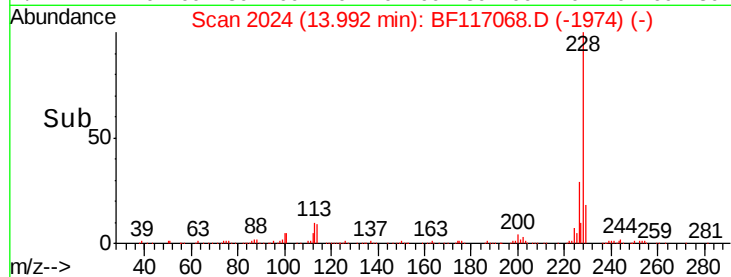
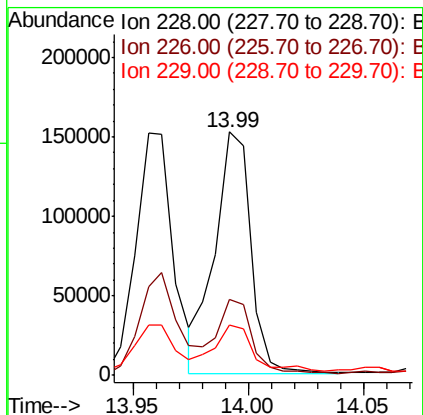
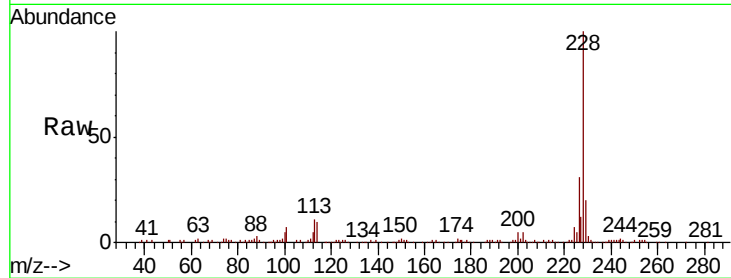
ClientSampleID :

AOC-7(6)DL

Tot Ion:	228	Resp:	165042
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.8	37.2
229	20.4	15.8	23.8

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#86

Indeno(1,2,3-cd)pyrene

Concen: 6.562 ng m

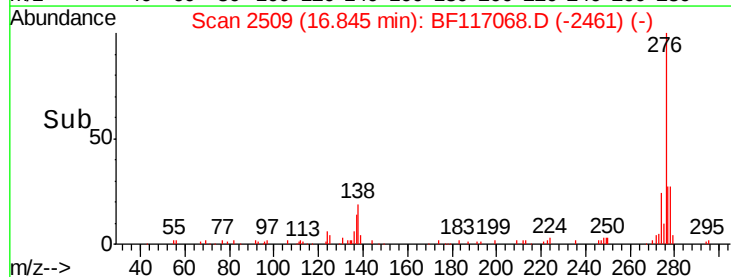
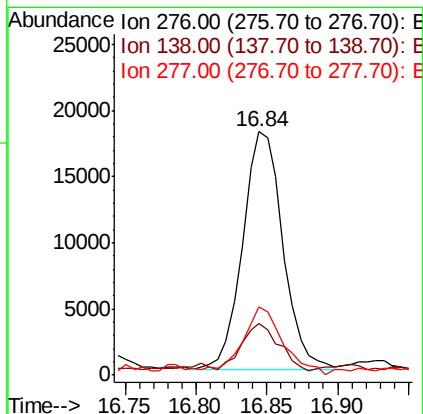
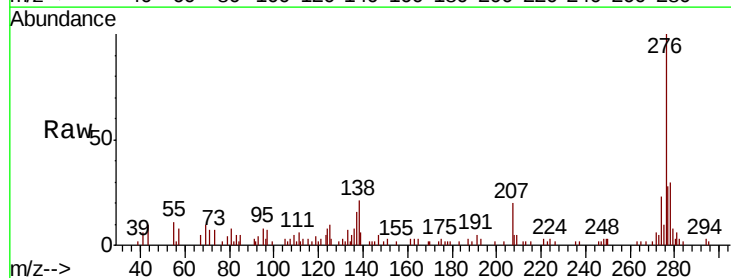
RT: 16.84 min Scan# 2509

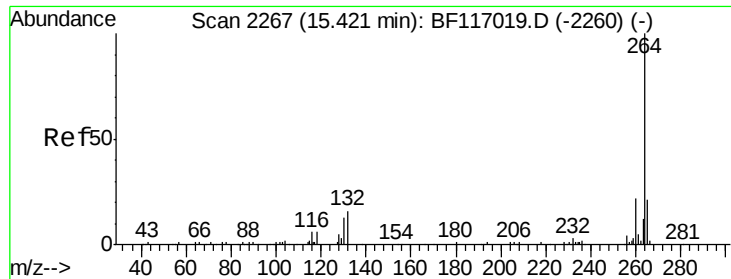
Delta R.T. -0.02 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Tgt Ion:	276	Resp:	35411
Ion Ratio	Lower	Upper	
276	100		
138	1.2	20.7	31.1#
277	1.0	19.8	29.8#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2266

Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Instrument :

BNA_F

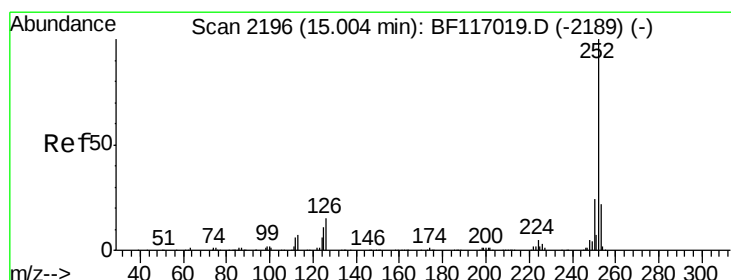
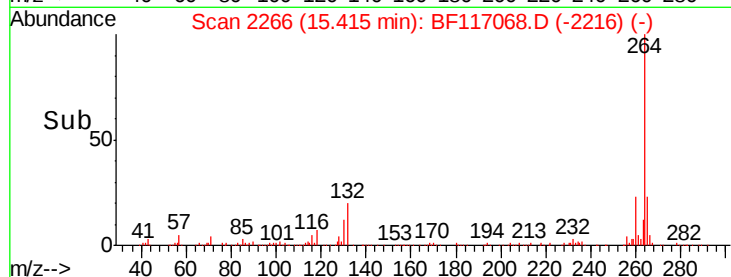
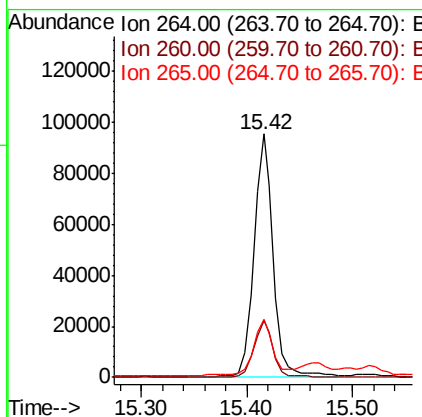
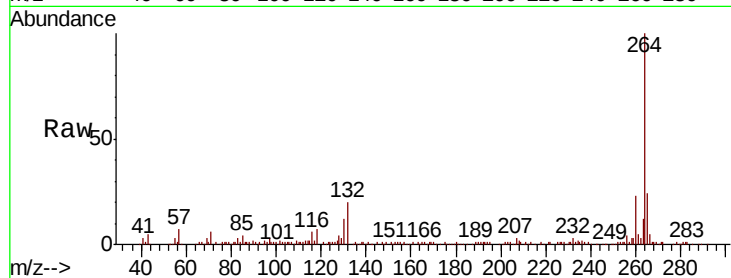
ClientSampleId :

AOC-7(6)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	17.6	26.4
265	23.7	16.6	24.8

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#88

Benzo(b)fluoranthene

Concen: 15.064 ng m

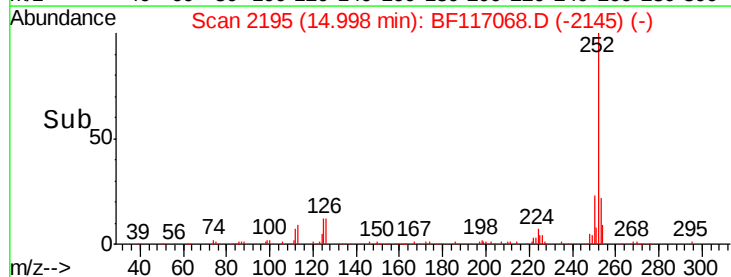
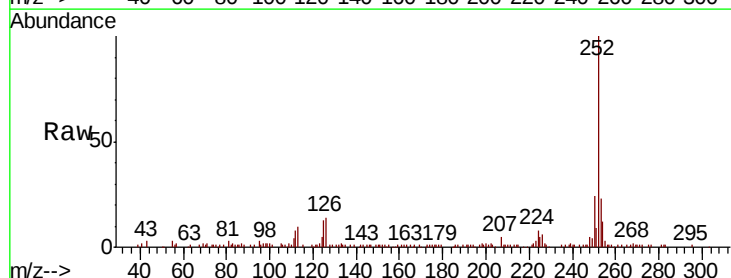
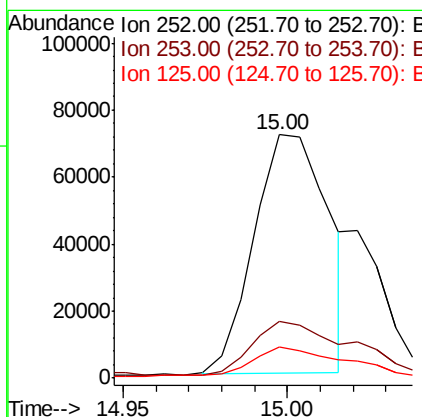
RT: 15.00 min Scan# 2195

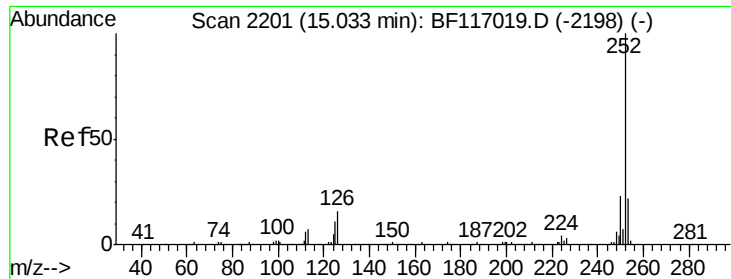
Delta R.T. -0.01 min

Lab File: BF117068.D

Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.6	26.4
125	13.0	8.6	12.8#





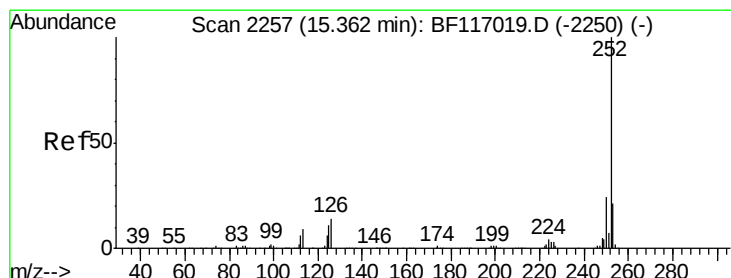
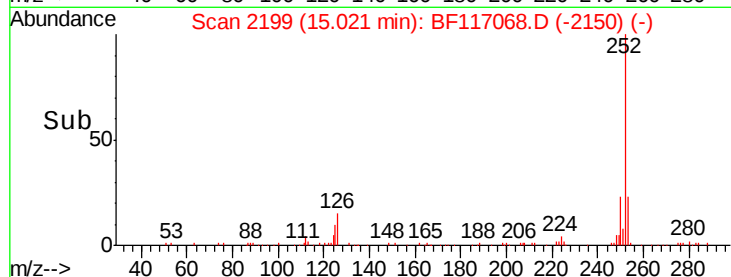
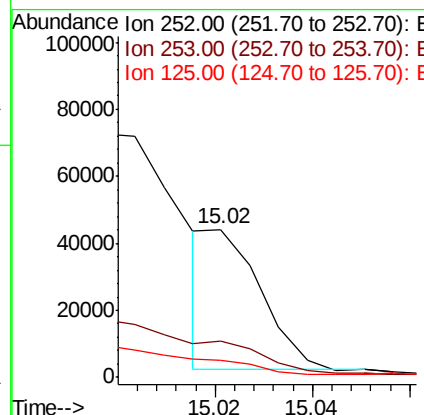
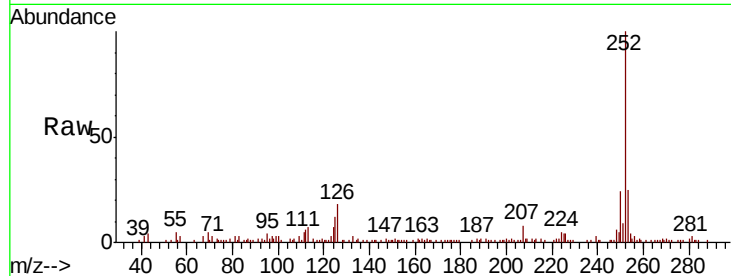
#89
Benzo(k)fluoranthene
Concen: 4.462 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.4	26.2
125	11.8	8.8	13.2

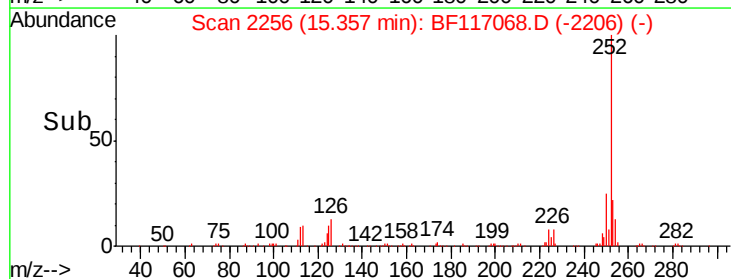
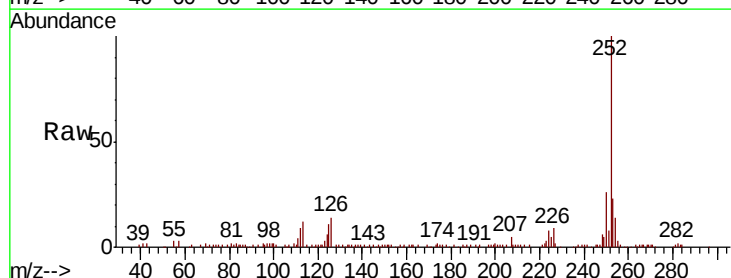
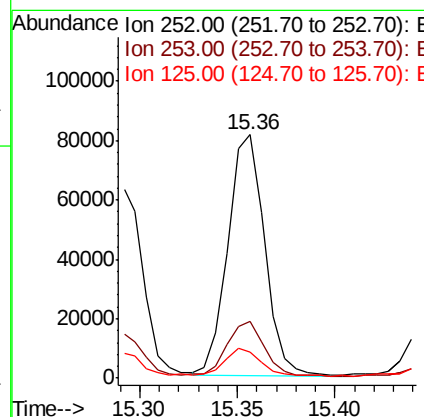
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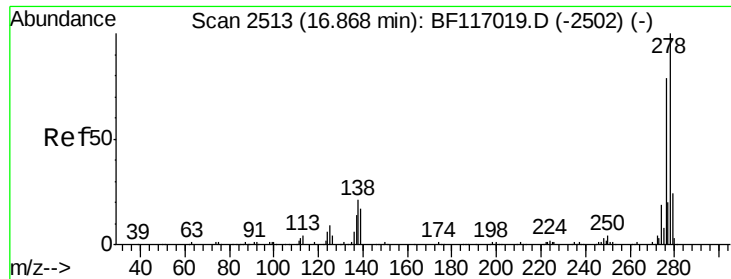
mohammad
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#90
Benzo(a)pyrene
Concen: 16.380 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	16.6	25.0
125	10.9	8.9	13.3





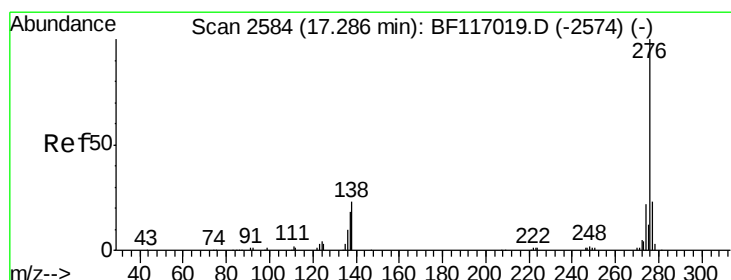
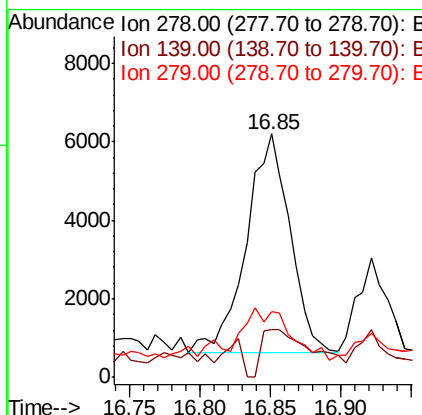
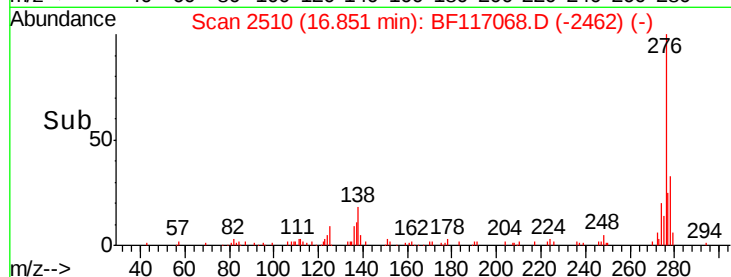
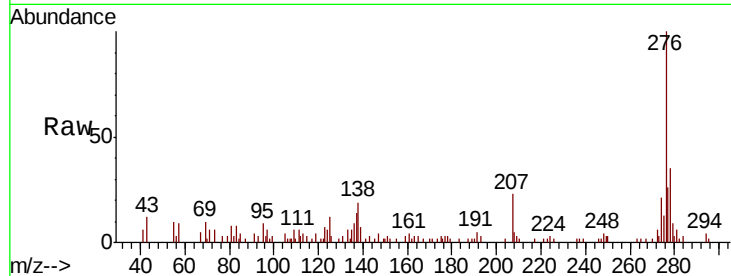
#91
Dibenzo(a,h)anthracene
Concen: 2.363 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.02 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

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

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.7	13.5	20.3
279	27.0	18.8	28.2

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#92
Benzo(g,h,i)perylene
Concen: 7.138 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.01 min
Lab File: BF117068.D
Acq: 16 Sep 2019 17:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	27.8
138	20.3	18.0	27.0

