

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111219\
 Data File : BF117756.D
 Acq On : 12 Nov 2019 12:59
 Operator : JU
 Sample : K5777-03DL2 50X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-MIDDLE-(10)DL2

Manual Integrations
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mohammad
 11/13/2019 6:48:20 PM

Quant Time: Nov 12 15:54:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 12 13:32:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	280705	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	1086928	20.00	ng	0.00
39) Acenaphthene-d10	9.97	164	553136	20.00	ng	0.00
64) Phenanthrene-d10	11.47	188	941030	20.00	ng	0.00
76) Chrysene-d12	14.12	240	591386	20.00	ng	0.00
87) Perylene-d12	15.63	264	753487	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.53	112	30870	1.99	ng	-0.01
7) Phenol-d6	6.53	99	42039	2.20	ng	-0.02
23) Nitrobenzene-d5	7.48	82	21384	1.16	ng	-0.01
42) 2,4,6-Tribromophenol	10.76	330	8608	1.59	ng	-0.01
45) 2-Fluorobiphenyl	9.29	172	42889	1.53	ng	0.00
79) Terphenyl-d14	13.05	244	37196	1.29	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.24	128	3042231	61.235	ng	98
37) 2-Methylnaphthalene	8.93	142	796039	23.536	ng	98
38) 1-Methylnaphthalene	9.03	142	733408	22.834	ng	99
46) 1,1'-Biphenyl	9.39	154	174567	4.506	ng	98
49) Acenaphthylene	9.83	152	151264	3.231	ng	# 90
52) Acenaphthene	10.00	154	341431	11.302	ng	97
55) Dibenzofuran	10.17	168	125561	2.970	ng	# 76
58) Fluorene	10.52	166	675360	21.676	ng	99
71) Phenanthrene	11.49	178	2486669	55.130	ng	99
72) Anthracene	11.54	178	589141	13.129	ng	97
75) Fluoranthene	12.69	202	827287	17.962	ng	97
78) Pvrene	12.92	202	1213425	28.108	ng	97
81) Benzo(a)anthracene	14.10	228	406726m	11.049	ng	
83) Chrysene	14.14	228	324541	8.928	ng	97
86) Indeno(1,2,3-cd)pyrene	17.14	276	121592	3.594	ng	98
88) Benzo(b)fluoranthene	15.18	252	281073m	5.923	ng	
90) Benzo(a)pyrene	15.56	252	299430	7.279	ng	99
92) Benzo(g,h,i)perylene	17.61	276	127046	3.553	ng	99

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

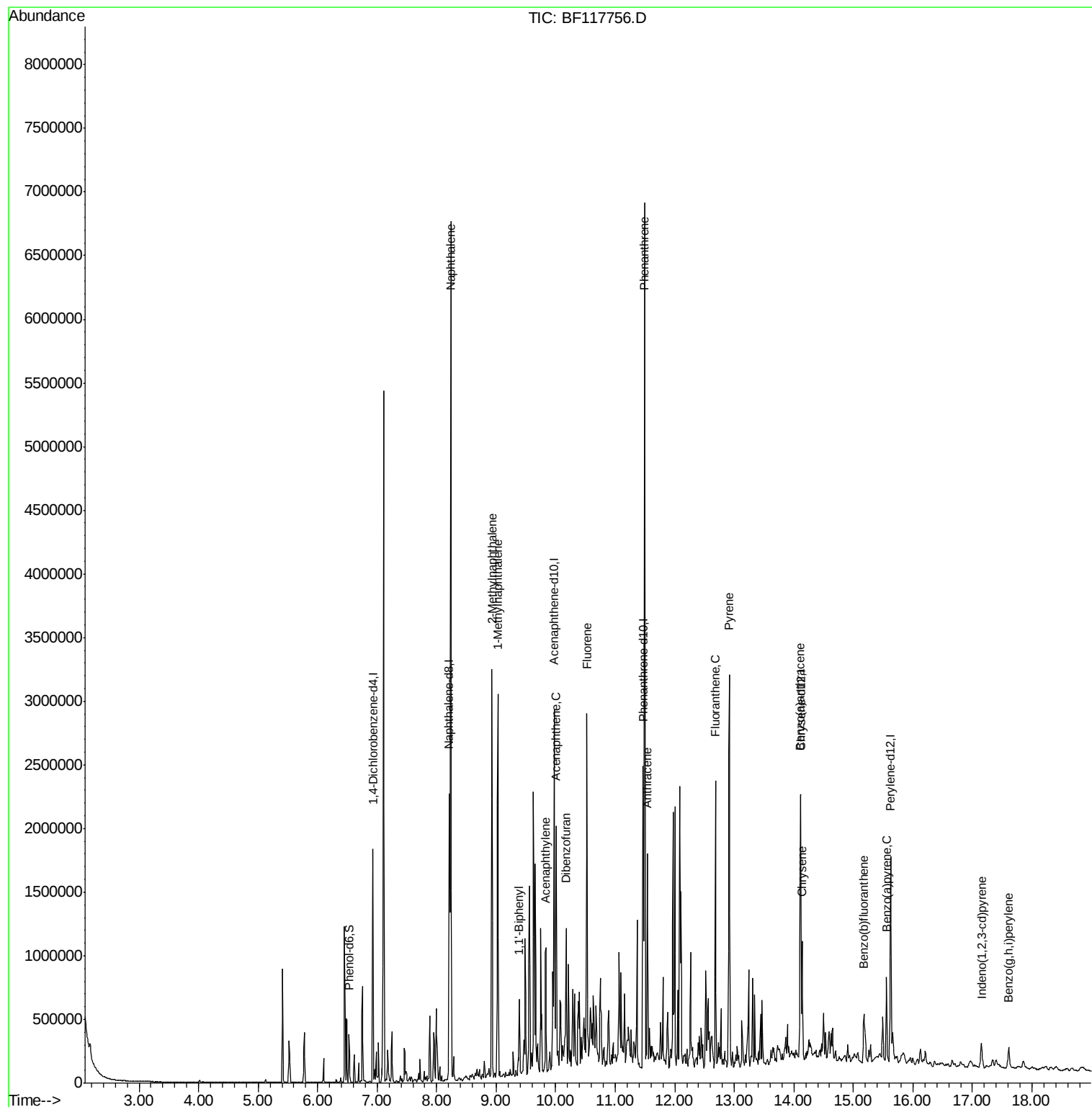
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111219\
Data File : BF117756.D
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#1

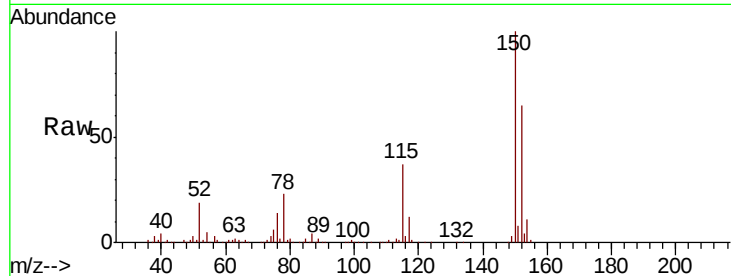
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Resp	Lower	Upper
152	100	280705		
150	153.4	126.6	190.0	
115	57.4	47.6	71.4	

Manual Integrations
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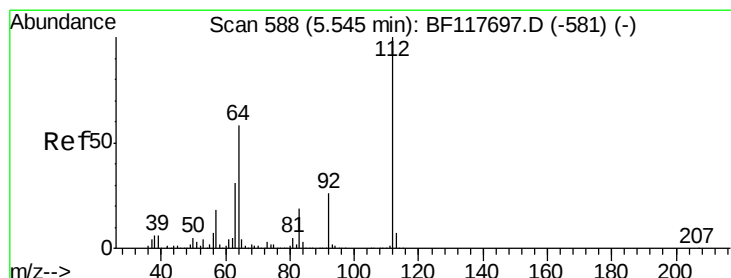
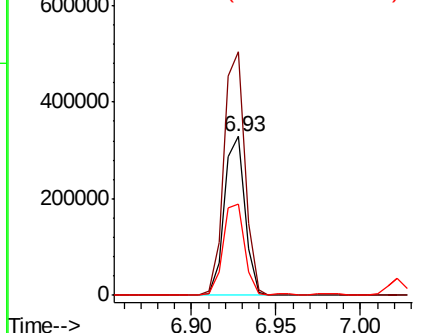
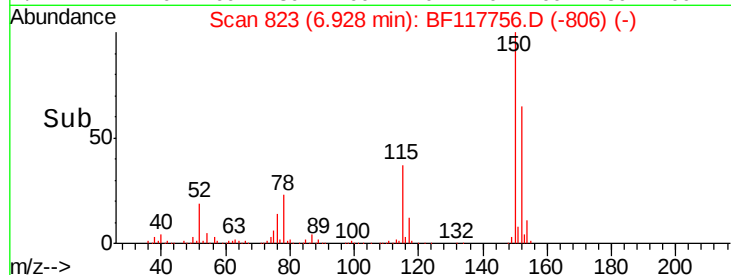


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

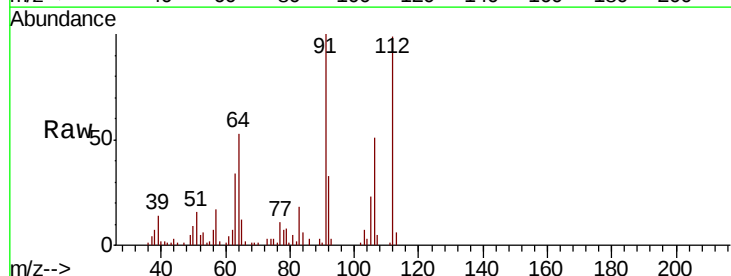
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 1.991 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	30870		
64	52.9	43.5	65.3	
63	34.4	23.5	35.3	

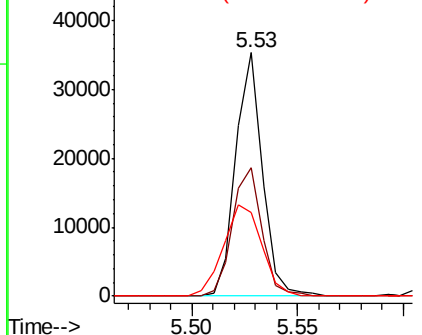
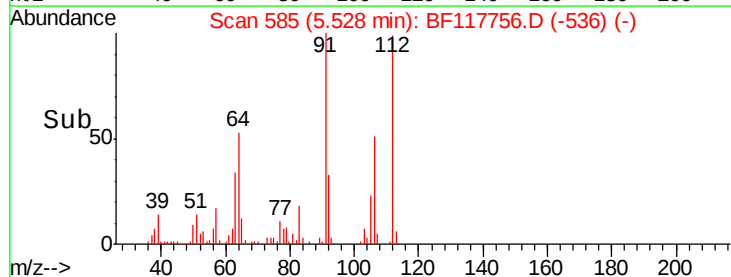


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 2.199 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF117756.D

Acq: 12 Nov 2019 12:59

Instrument :

BNA_F

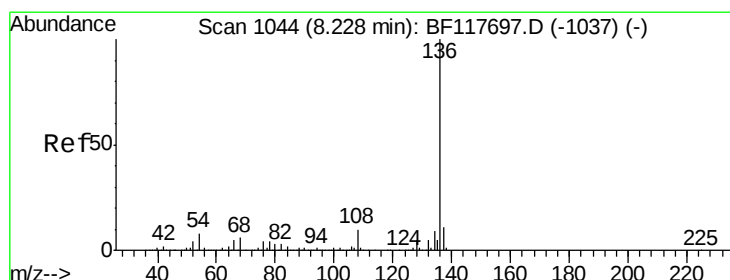
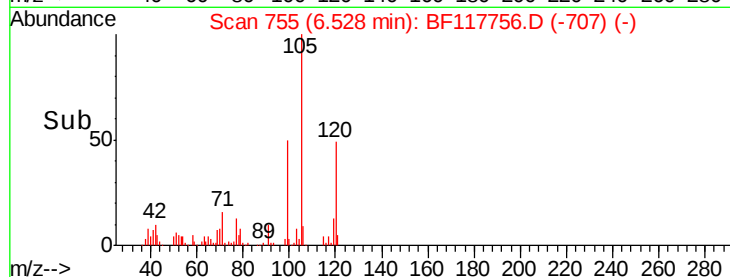
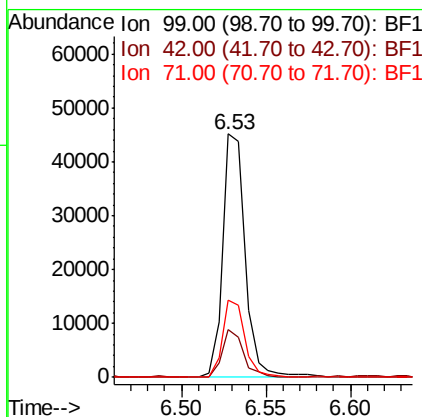
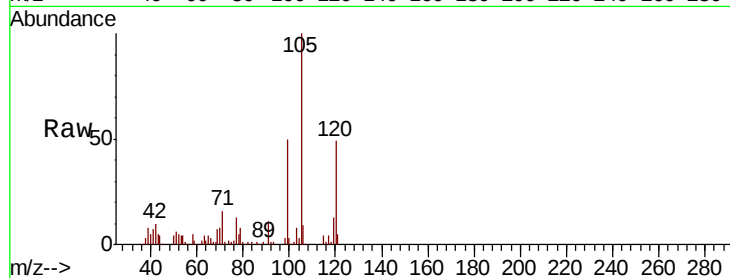
ClientSampleId :

AOC-7-MIDDLE-(10)DL2

Tot Ion:	99	Resp:	42039
Ion Ratio	Lower	Upper	
99	100		
42	19.4	15.3	22.9
71	31.7	28.2	42.2

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#21

Naphthalene-d8

Concen: 20.000 ng

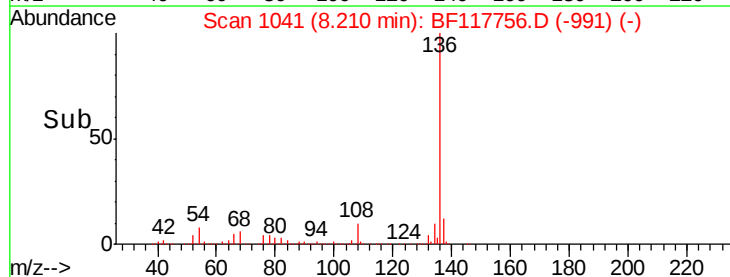
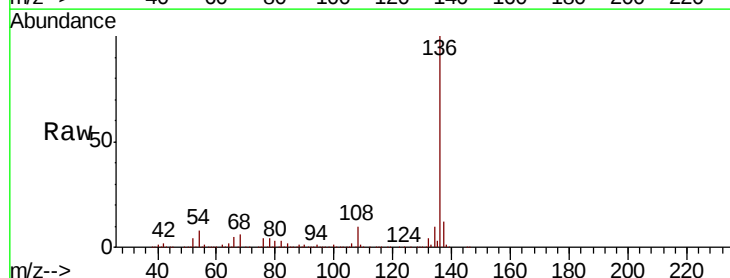
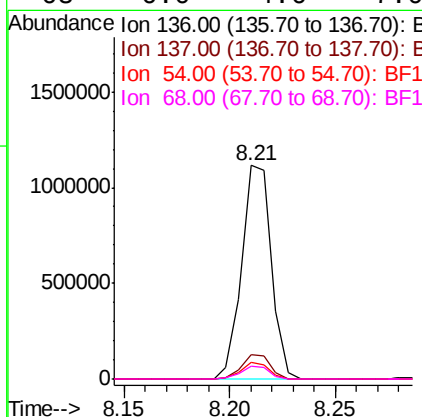
RT: 8.21 min Scan# 1041

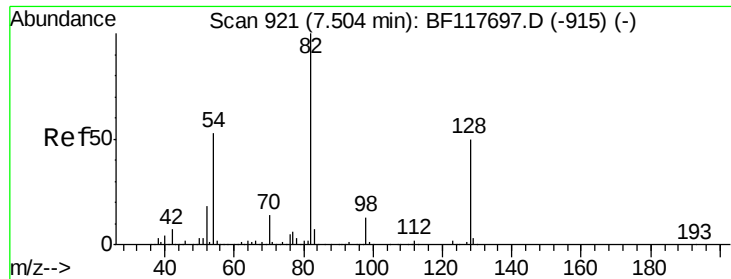
Delta R.T. -0.01 min

Lab File: BF117756.D

Acq: 12 Nov 2019 12:59

Tgt Ion:	136	Resp:	1086928
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.0	13.6
54	7.7	6.1	9.1
68	6.0	4.6	7.0





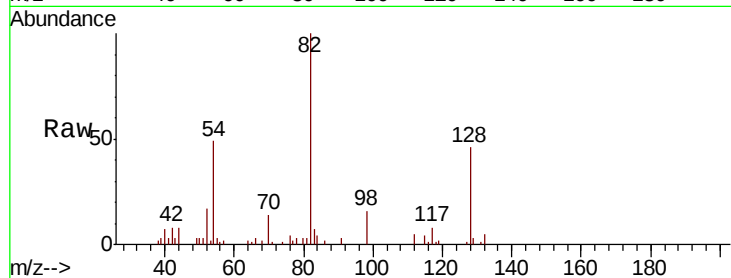
#23
Nitrobenzene-d5
Concen: 1.162 ng
RT: 7.48 min Scan# 917
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.7	58.1
54	48.8	41.4	62.2

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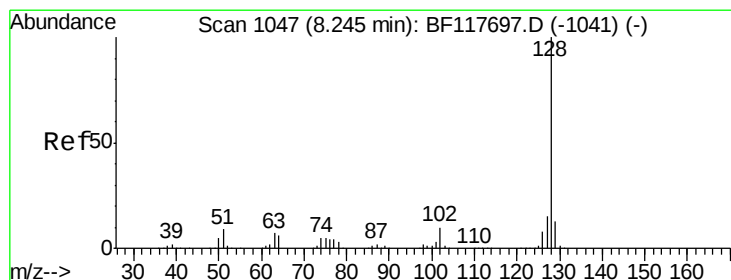
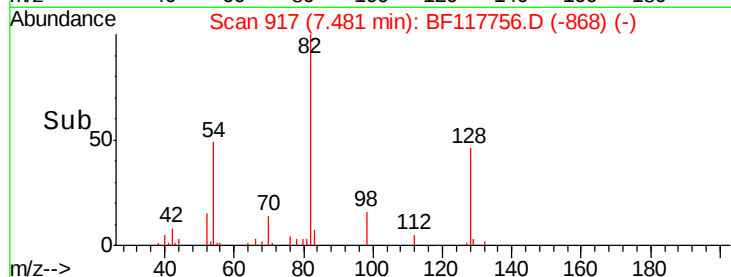
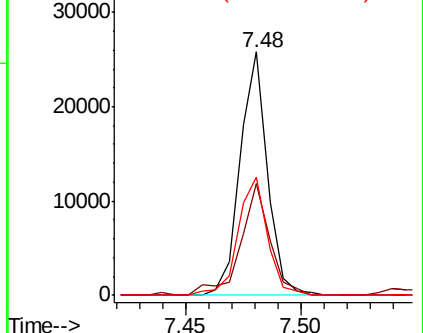


Abundance

Ion 82.00 (81.70 to 82.70): BF1

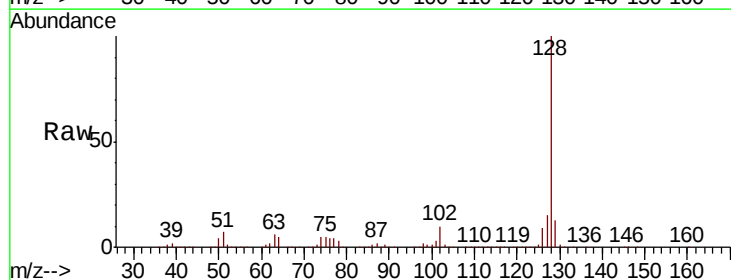
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 61.235 ng
RT: 8.24 min Scan# 1046
Delta R.T. 0.00 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.6	14.4
127	15.1	11.4	17.2

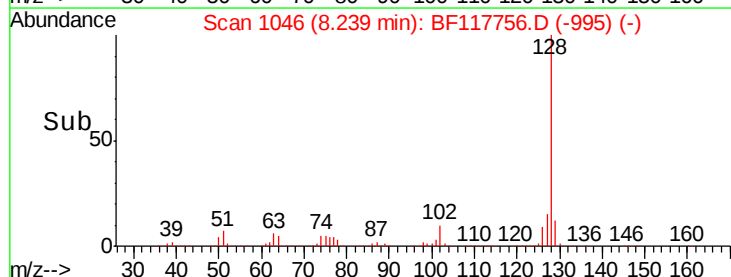
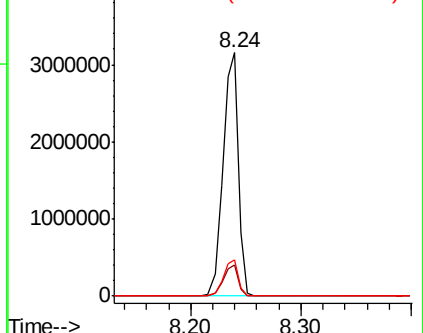


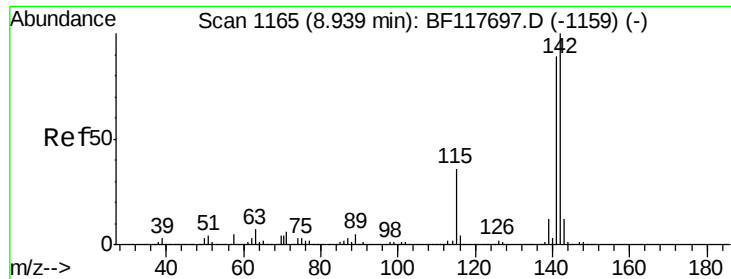
Abundance

Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1





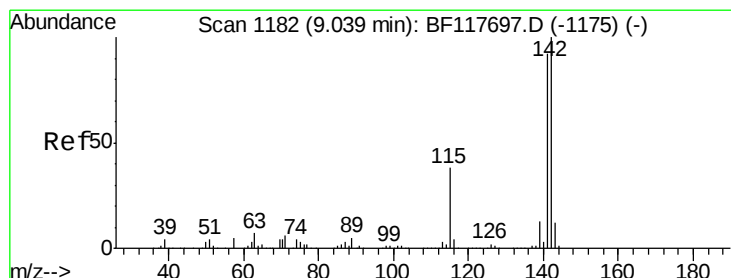
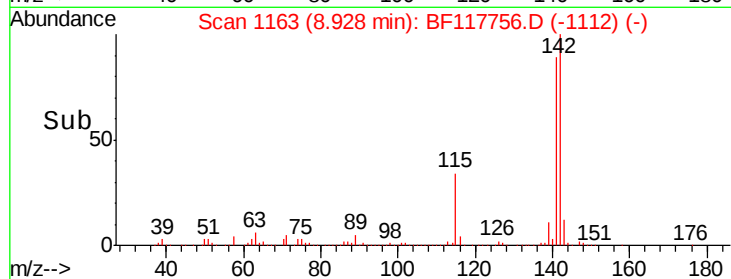
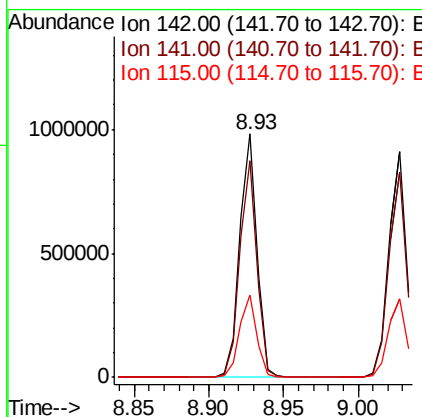
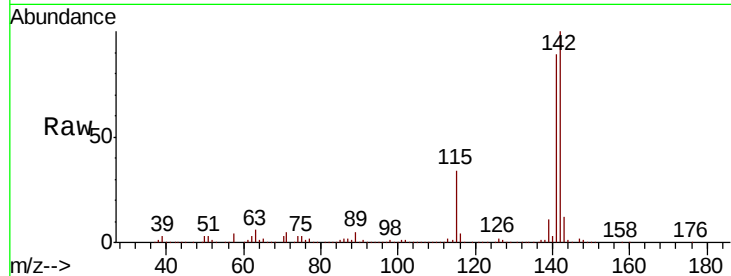
#37
2-Methylnaphthalene
Concen: 23.536 ng
RT: 8.93 min Scan# 1163
Delta R.T. 0.00 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Resp	Lower	Upper
142	100	796039		
141	88.8	70.2	105.4	
115	33.8	28.8	43.2	

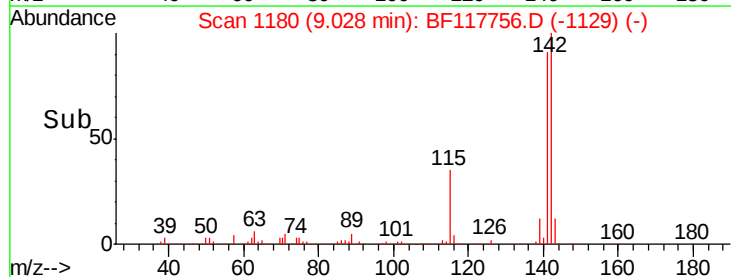
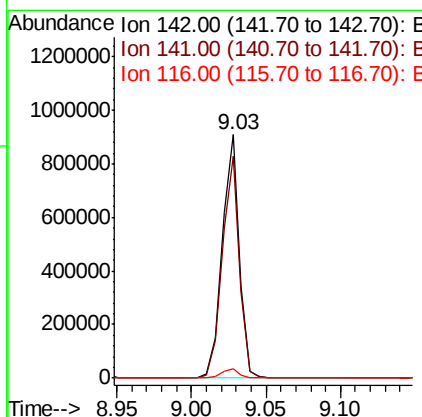
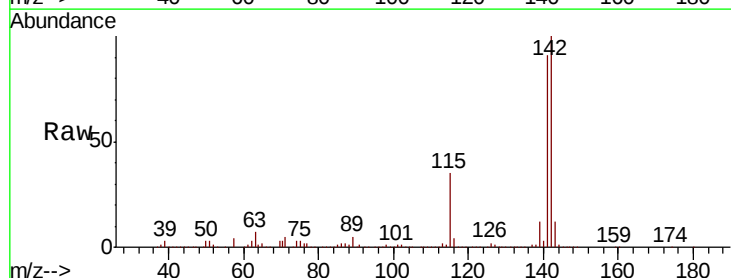
Manual Integrations
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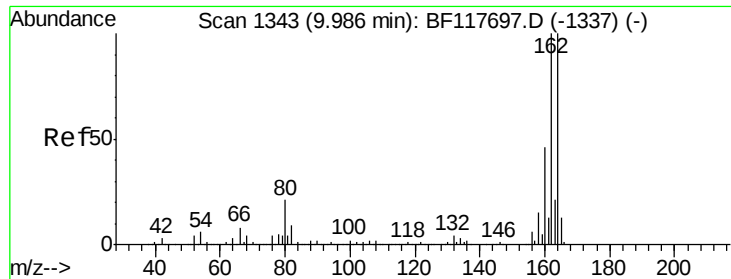
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#38
1-Methylnaphthalene
Concen: 22.834 ng
RT: 9.03 min Scan# 1180
Delta R.T. 0.00 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	733408		
141	91.2	73.5	110.3	
116	3.7	3.3	4.9	





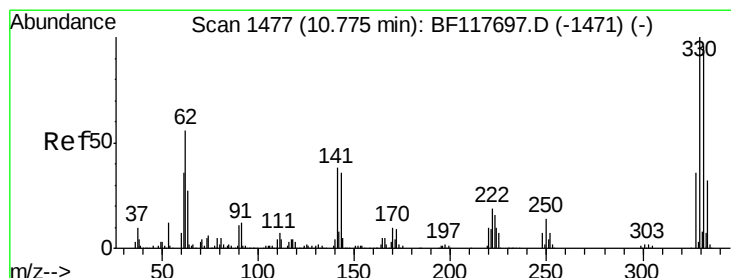
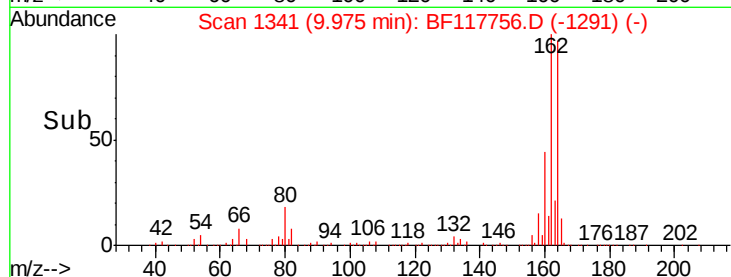
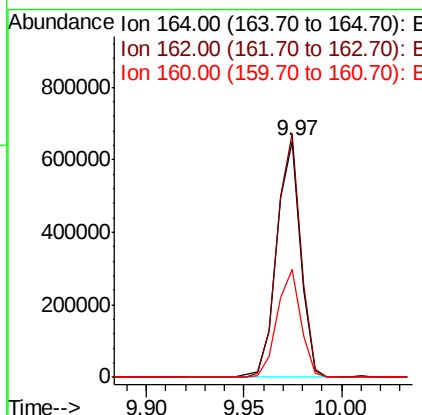
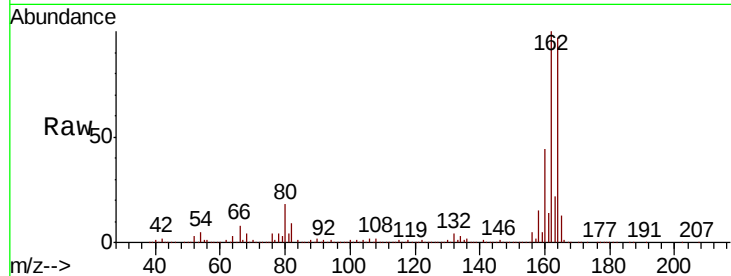
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.97 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.9	81.2	121.8	
160	45.7	36.3	54.5	

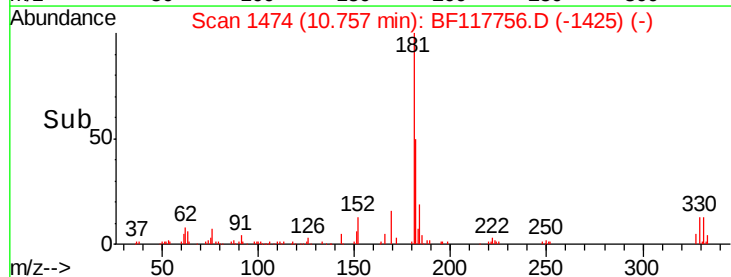
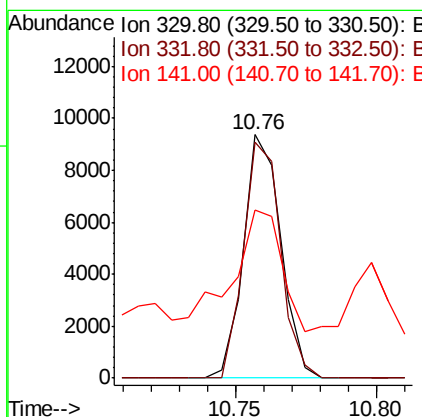
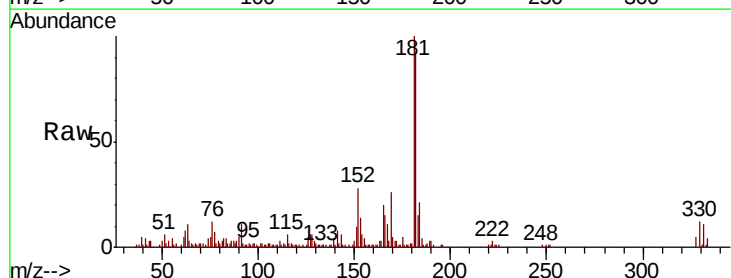
Manual Integrations
APPROVED

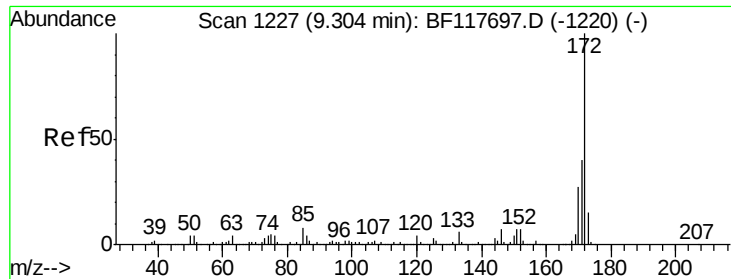
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#42
2,4,6-Tribromophenol
Concen: 1.591 ng
RT: 10.76 min Scan# 1474
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	76.9	115.3	
141	59.9	26.5	39.7#	





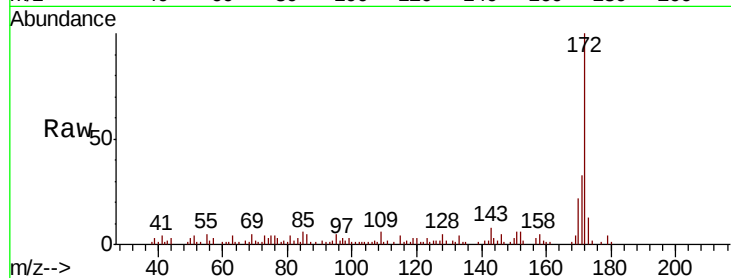
#45
2-Fluorobiphenyl
Concen: 1.530 ng
RT: 9.29 min Scan# 1224
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.3	30.7	46.1
170	22.2	20.6	30.8

Manual Integrations
APPROVED

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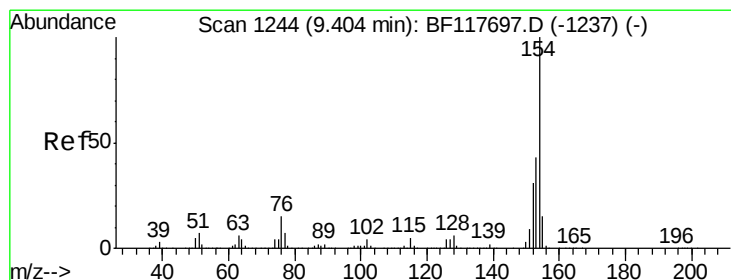
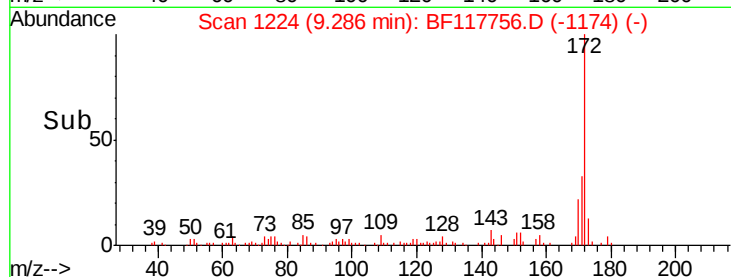
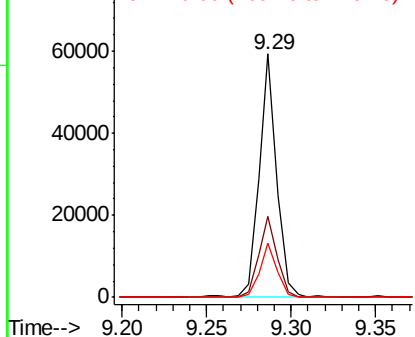


Abundance

Ion 172.00 (171.70 to 172.70): E

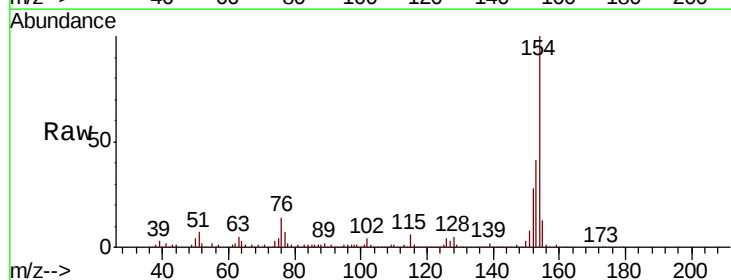
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#46
1,1'-Biphenyl
Concen: 4.506 ng
RT: 9.39 min Scan# 1241
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.6	61.6
76	14.1	0.0	32.0

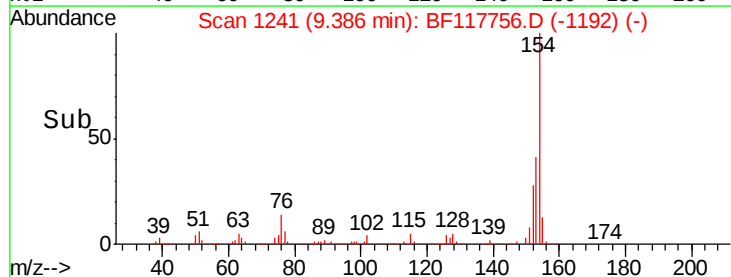
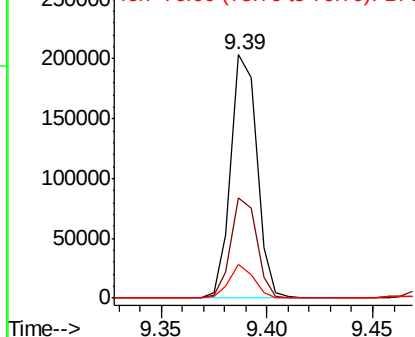


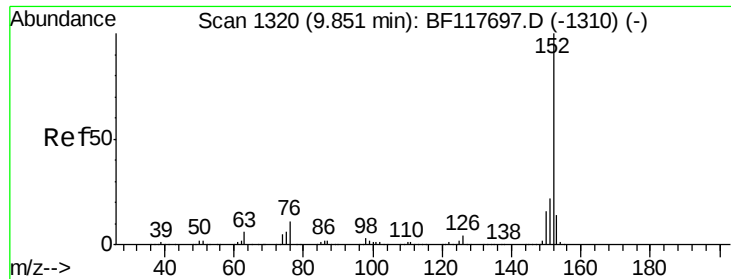
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





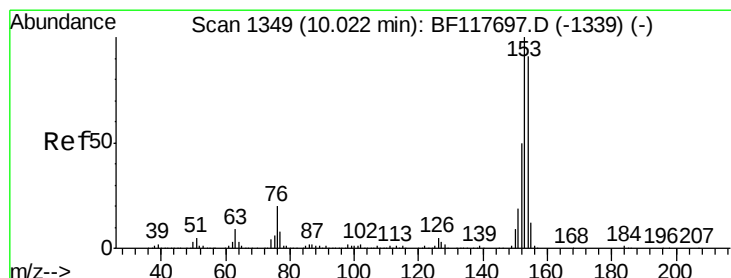
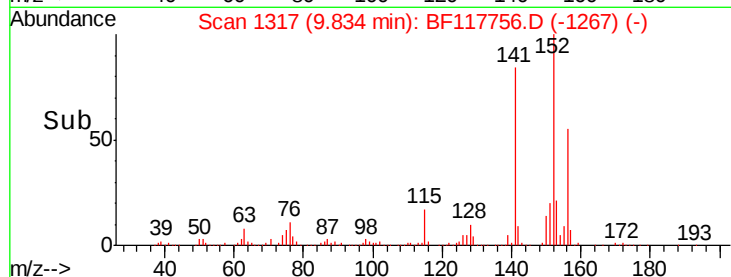
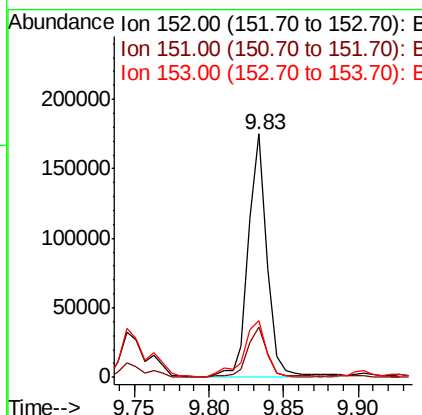
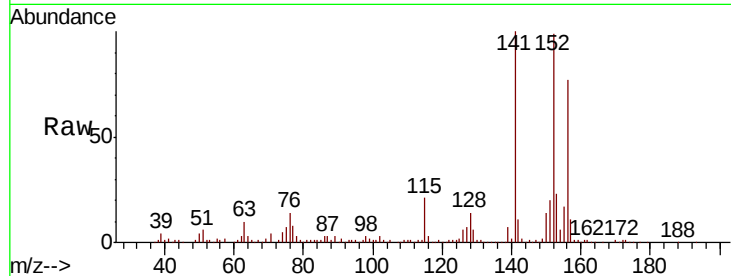
#49
Acenaphthylene
Concen: 3.231 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.5	26.3
153	23.2	11.7	17.5#

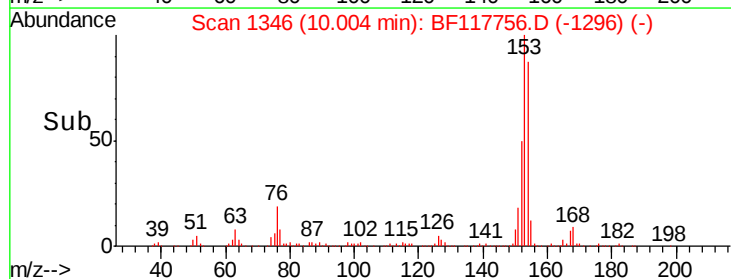
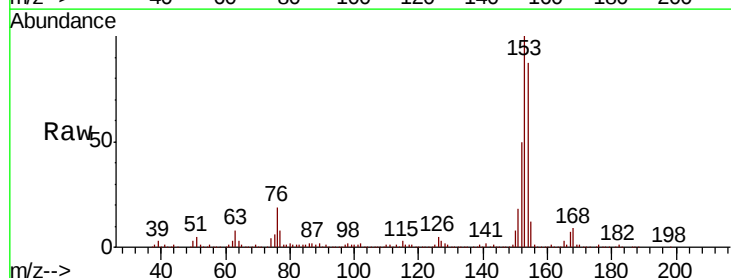
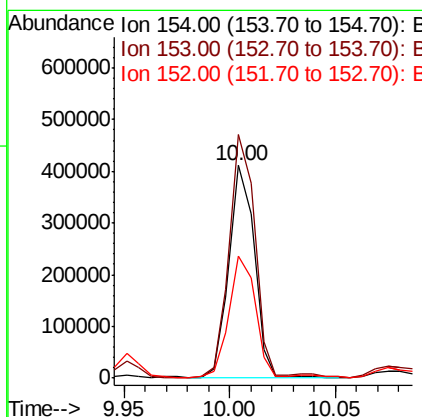
Manual Integrations
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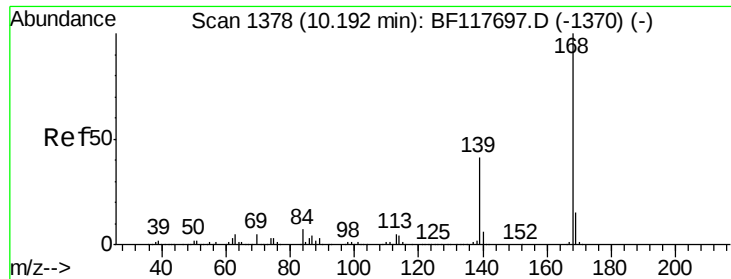
mohammad
11/13/2019 6:48:20 PM



#52
Acenaphthene
Concen: 11.302 ng
RT: 10.00 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	89.0	133.6
152	57.3	43.8	65.8





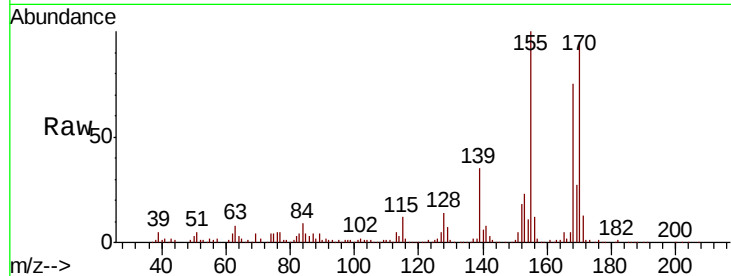
#55
Dibenzofuran
Concen: 2.970 ng
RT: 10.17 min Scan# 1375
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
168	100		
139	47.0	31.4	47.2
169	36.1	11.1	16.7#

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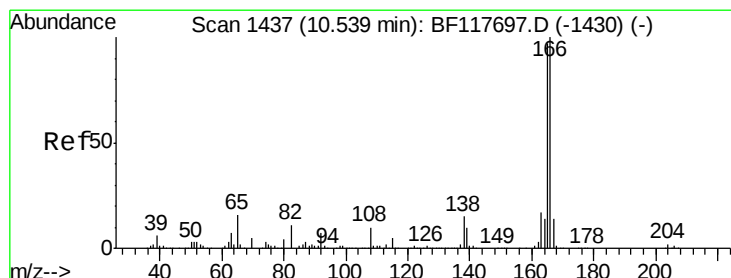
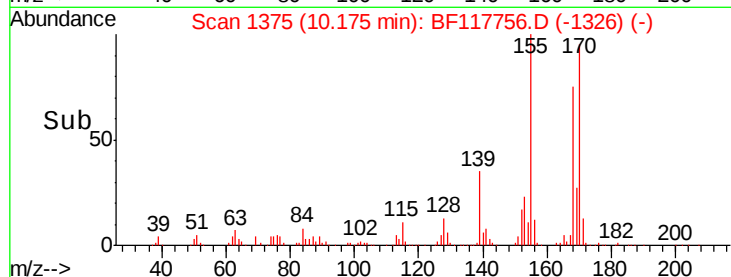
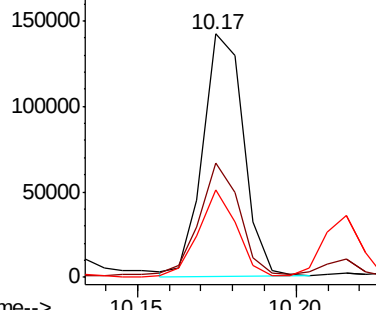


Abundance

Ion 168.00 (167.70 to 168.70): E

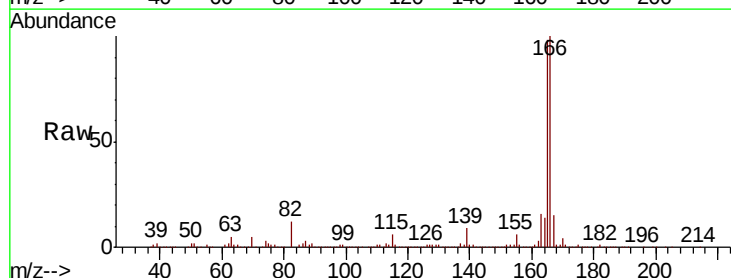
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#58
Fluorene
Concen: 21.676 ng
RT: 10.52 min Scan# 1434
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.5	116.3
167	14.5	11.3	16.9

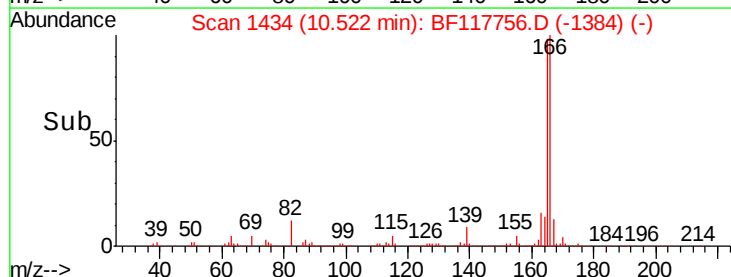
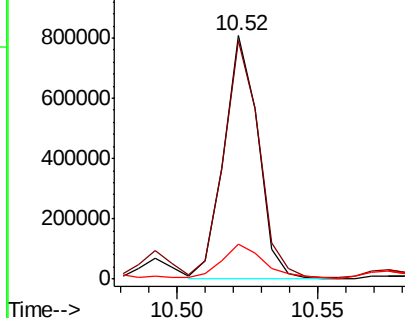


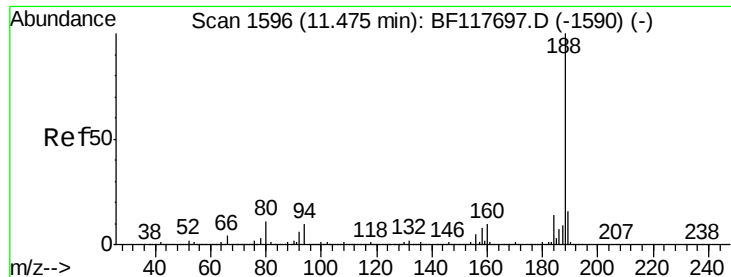
Abundance

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: 11.47 min Scan# 1595

Delta R.T. 0.00 min

Lab File: BF117756.D

Acq: 12 Nov 2019 12:59

Instrument :

BNA_F

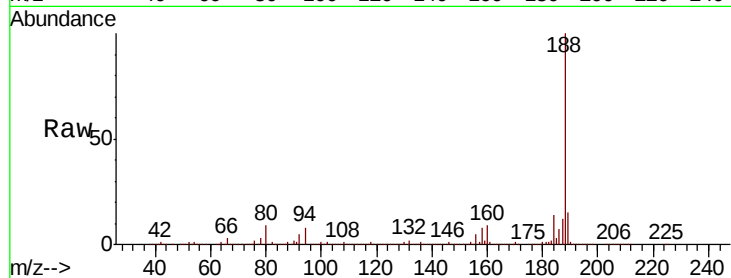
ClientSampleId :

AOC-7-MIDDLE-(10)DL2

Tot Ion:188	Resp:	941030
Ion Ratio	Lower	Upper
188 100		
94 8.2	7.4	11.2
80 8.8	8.1	12.1

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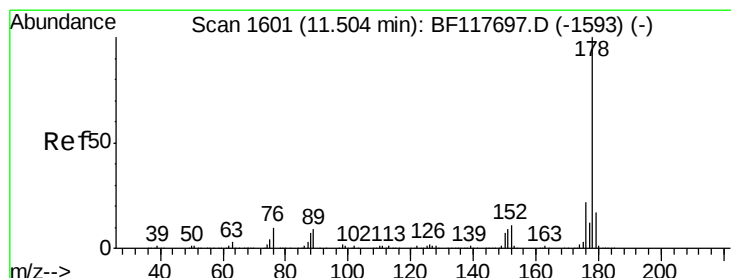
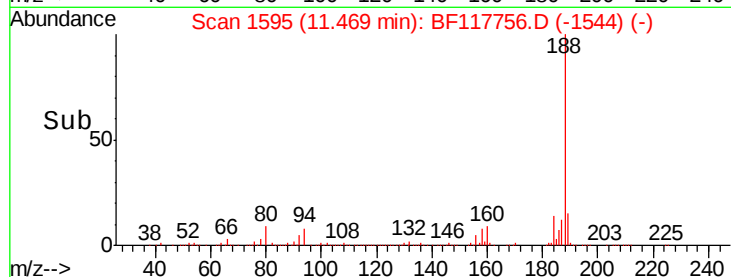
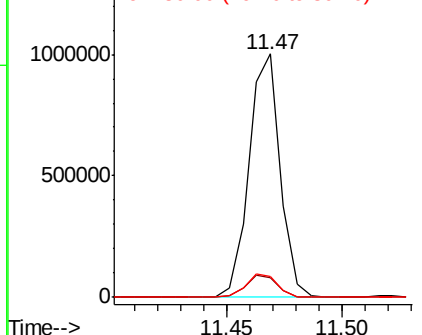
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 55.130 ng

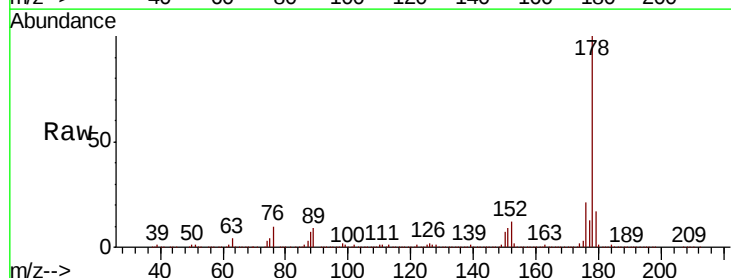
RT: 11.49 min Scan# 1599

Delta R.T. 0.00 min

Lab File: BF117756.D

Acq: 12 Nov 2019 12:59

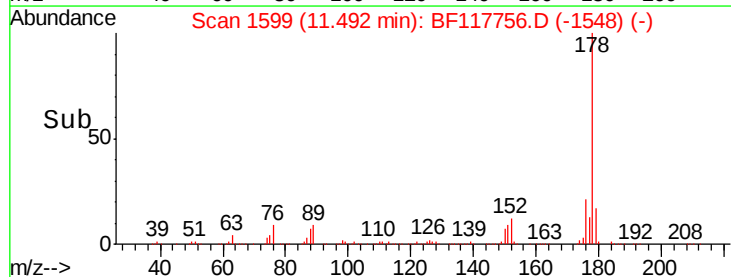
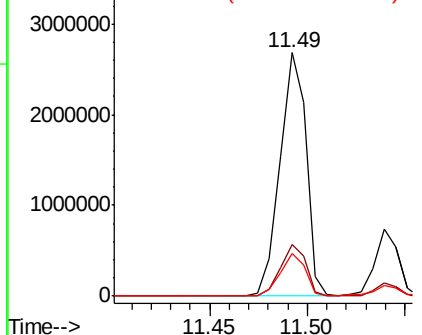
Tgt Ion:178	Resp:	2486669
Ion Ratio	Lower	Upper
178 100		
176 21.4	16.8	25.2
179 17.4	13.5	20.3

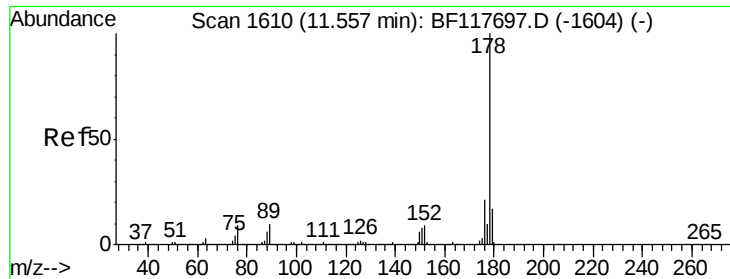


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 13.129 ng

RT: 11.54 min Scan# 1607

Delta R.T. -0.01 min

Lab File: BF117756.D

Acq: 12 Nov 2019 12:59

Instrument :

BNA_F

ClientSampleId :

AOC-7-MIDDLE-(10)DL2

Tot Ion:178 Resp: 589141

Ion Ratio Lower Upper

178 100

176 19.1 16.4 24.6

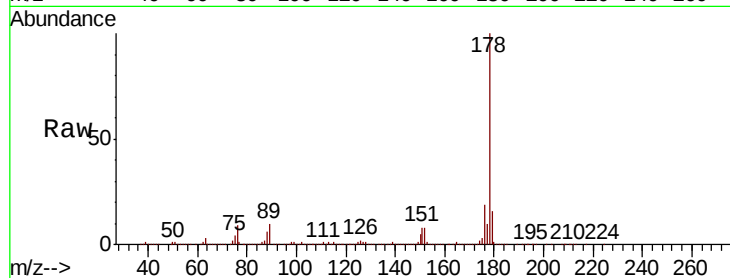
179 16.0 13.6 20.4

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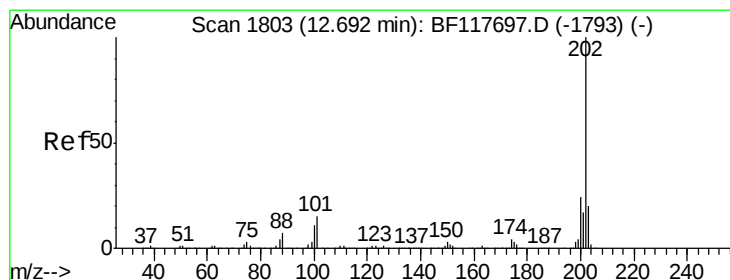
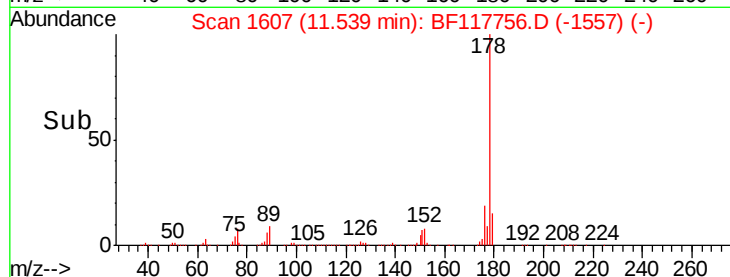
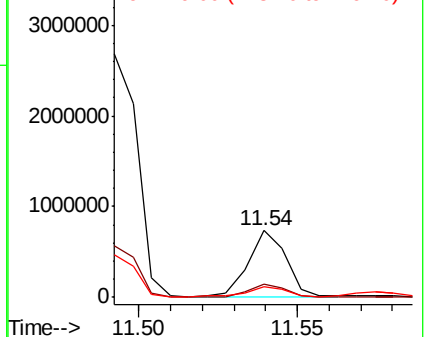
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 17.962 ng

RT: 12.69 min Scan# 1802

Delta R.T. 0.00 min

Lab File: BF117756.D

Acq: 12 Nov 2019 12:59

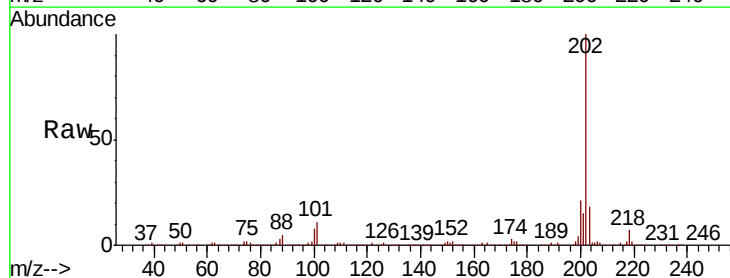
Tgt Ion:202 Resp: 827287

Ion Ratio Lower Upper

202 100

101 10.7 0.0 32.5

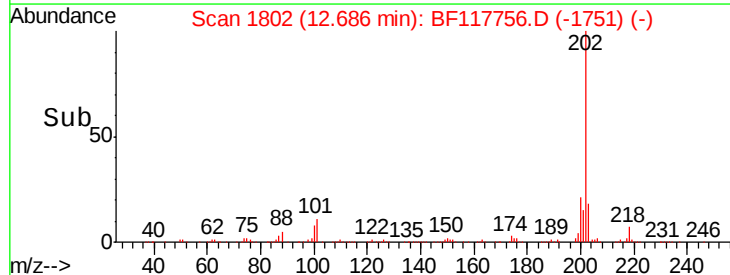
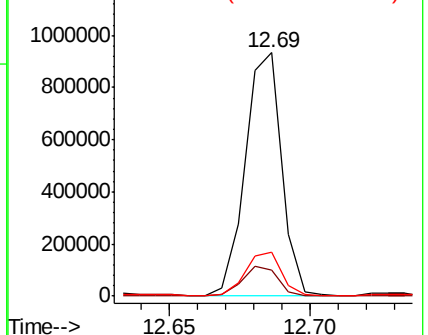
203 18.0 0.0 38.9

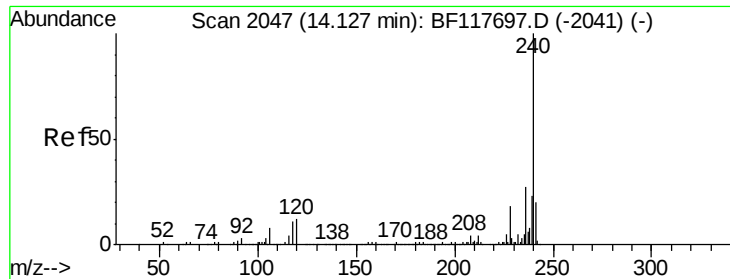


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





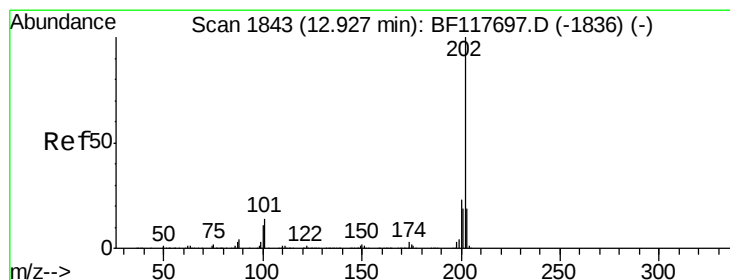
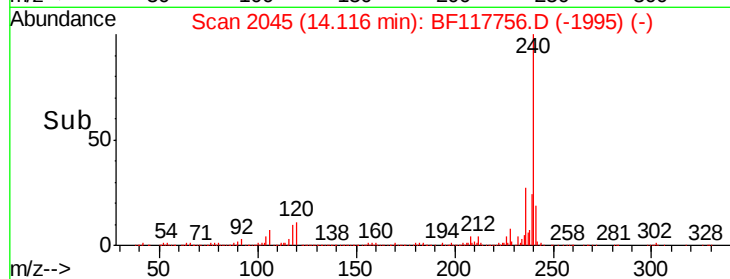
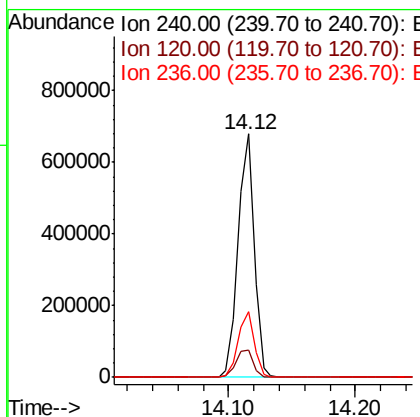
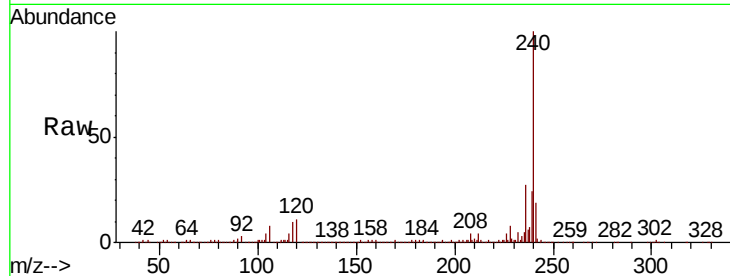
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.12 min Scan# 2045
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.3	13.9
236	26.8	21.4	32.0

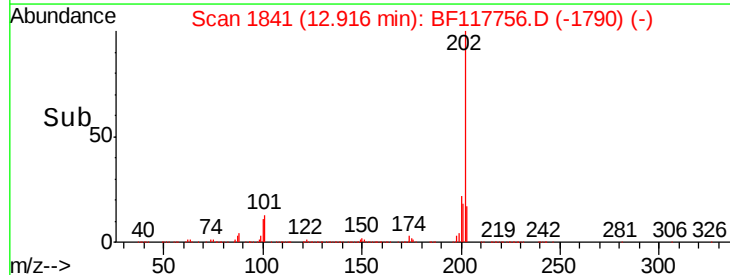
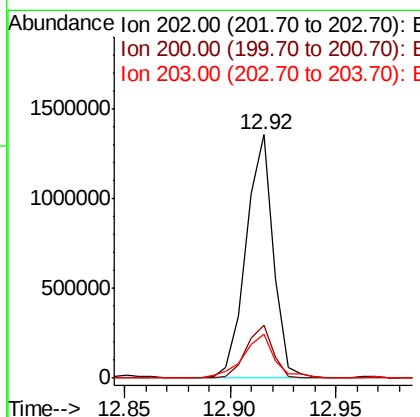
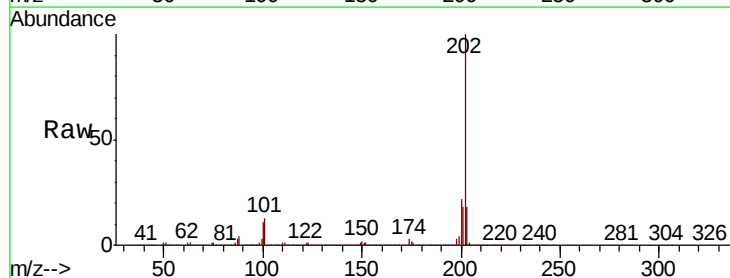
Manual Integrations
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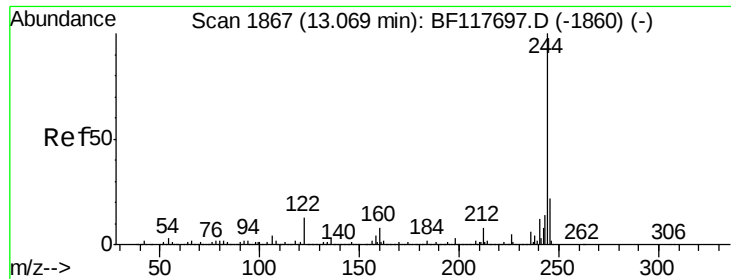
mohammad
11/13/2019 6:48:20 PM



#78
Pyrene
Concen: 28.108 ng
RT: 12.92 min Scan# 1841
Delta R.T. 0.00 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	18.9	28.3
203	18.0	15.3	22.9





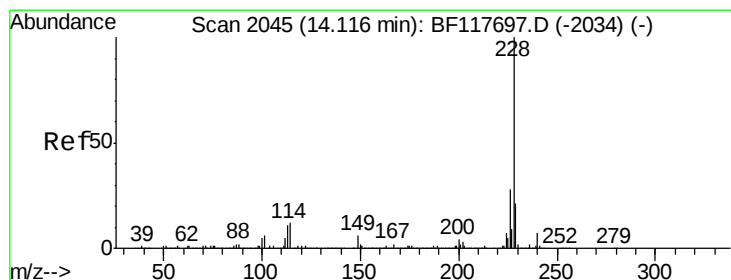
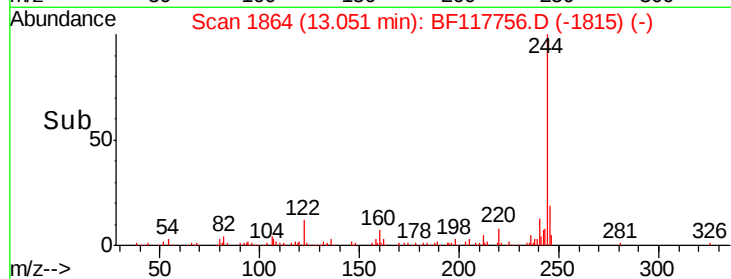
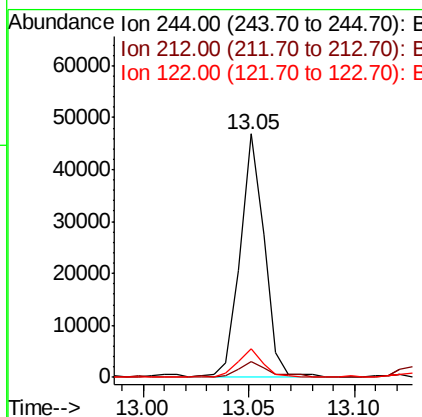
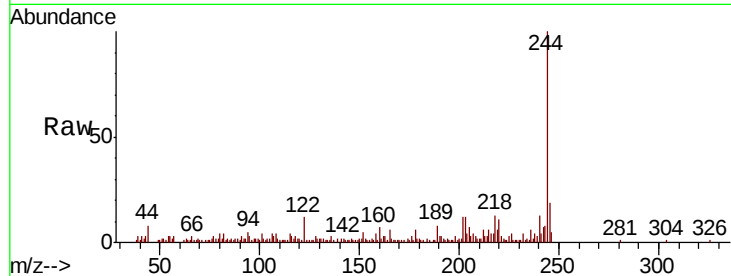
#79
 Terphenyl-d14
 Concen: 1.295 ng
 RT: 13.05 min Scan# 1864
 Delta R.T. -0.01 min
 Lab File: BF117756.D
 Acq: 12 Nov 2019 12:59

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	6.2	9.4
122	11.7	9.1	13.7

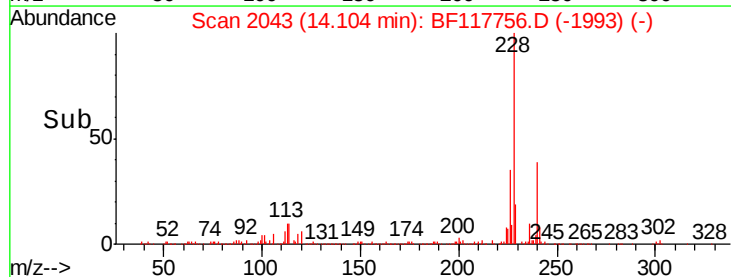
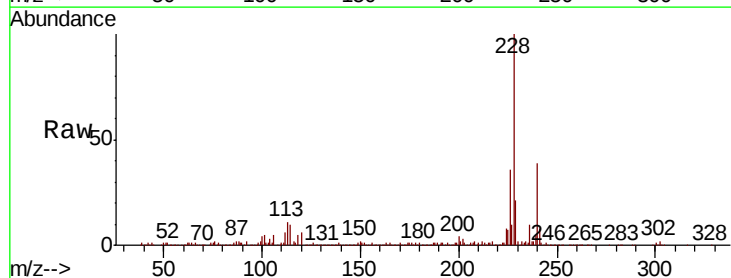
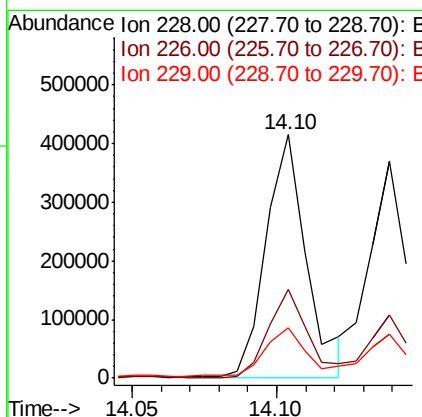
Manual Integrations
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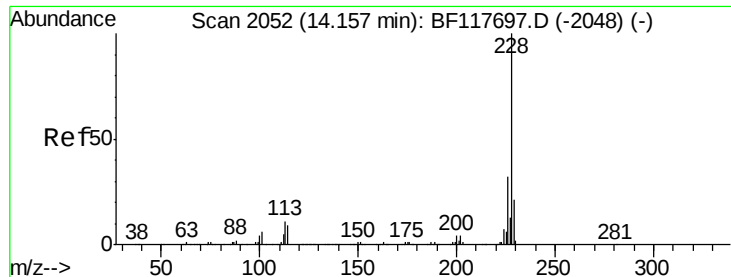
mohammad
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#81
 Benzo(a)anthracene
 Concen: 11.049 ng m
 RT: 14.10 min Scan# 2043
 Delta R.T. -0.01 min
 Lab File: BF117756.D
 Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.2	22.6	33.8#
229	20.5	17.0	25.4





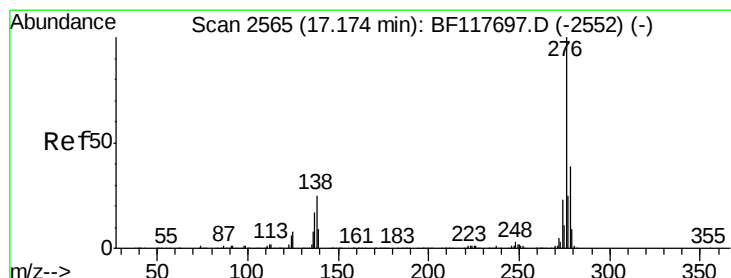
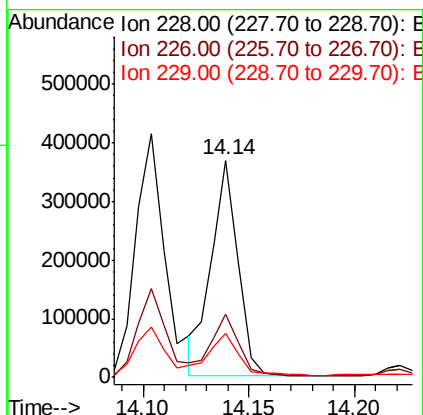
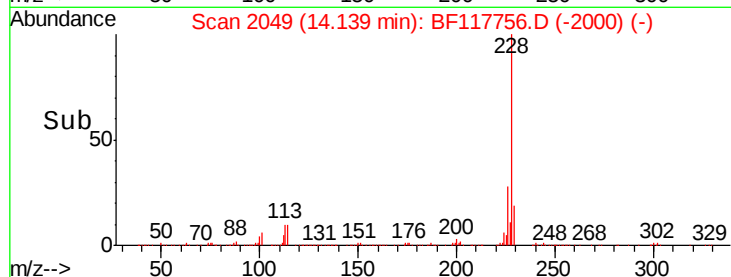
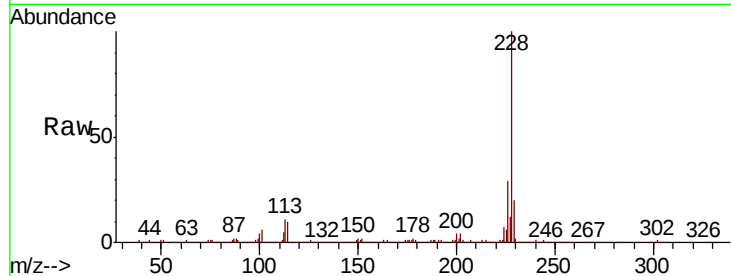
#83
Chrysene
Concen: 8.928 ng
RT: 14.14 min Scan# 2049
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	25.1	37.7
229	20.3	16.6	25.0

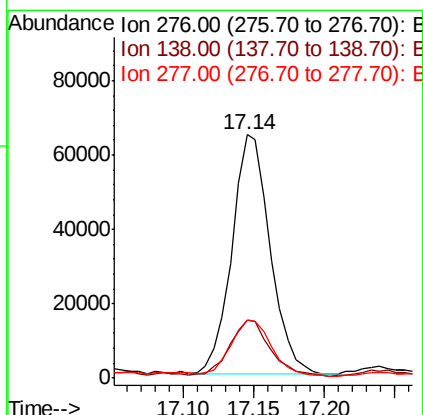
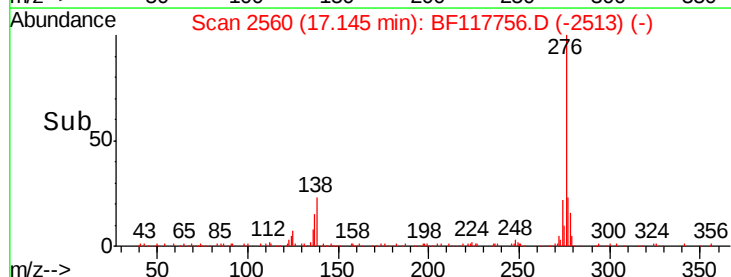
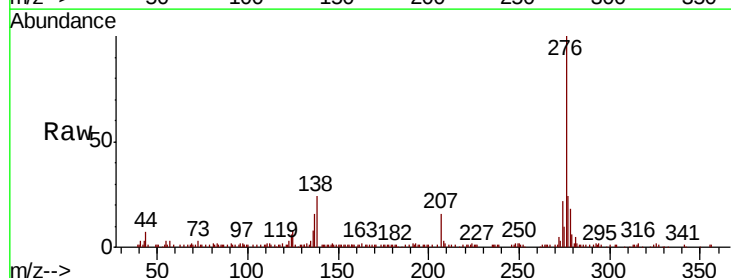
Manual Integrations
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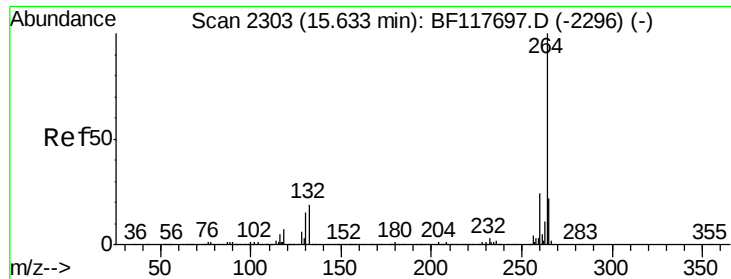
mohammad
11/13/2019 6:48:20 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.594 ng
RT: 17.14 min Scan# 2560
Delta R.T. -0.02 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.4	21.2	31.8
277	24.8	20.1	30.1





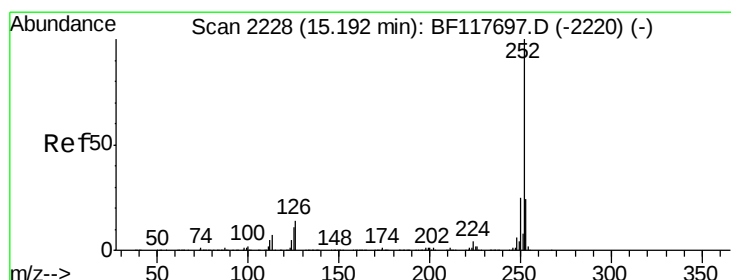
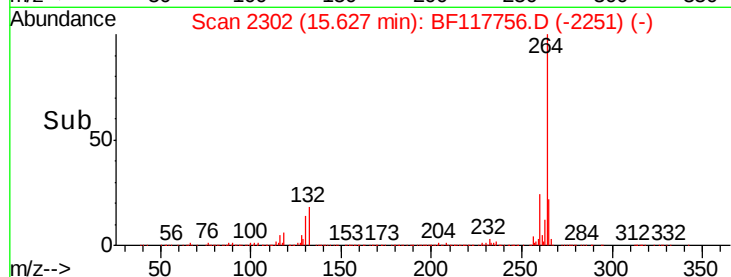
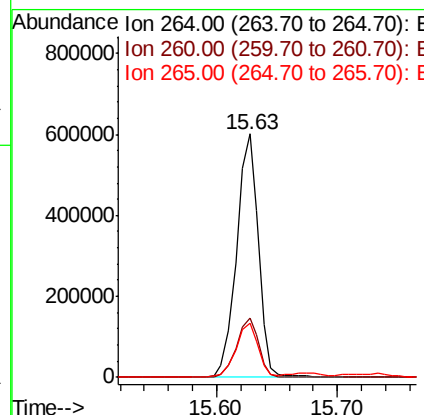
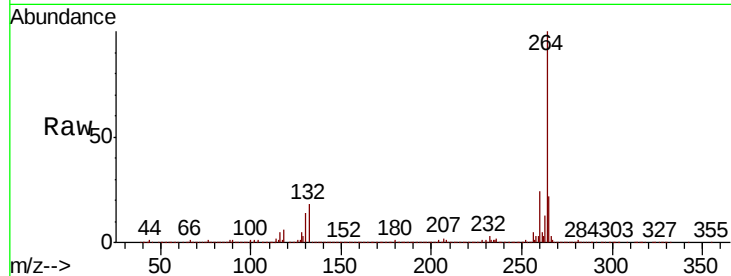
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.00 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.0	28.6
265	22.3	17.2	25.8

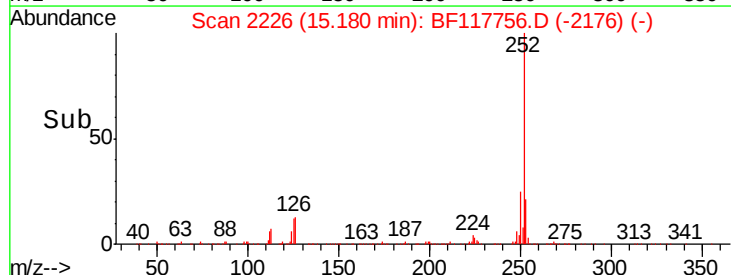
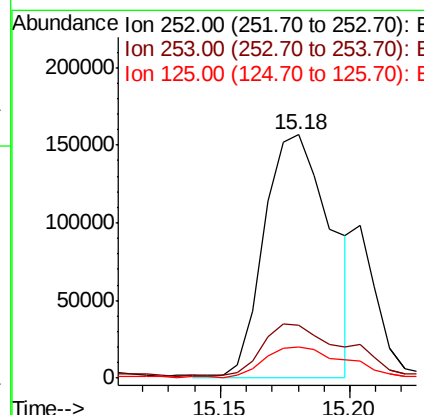
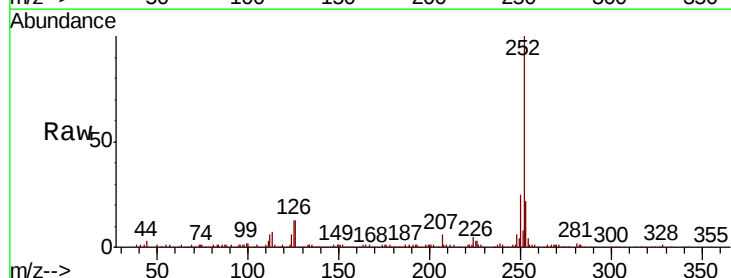
Manual Integrations
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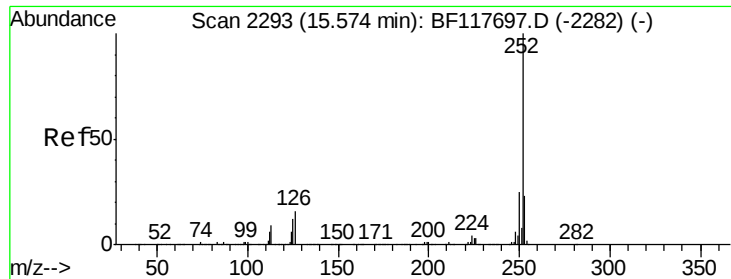
mohammad
11/13/2019 6:48:20 PM



#88
Benzo(b)fluoranthene
Concen: 5.923 ng m
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.3	27.5
125	13.0	8.4	12.6





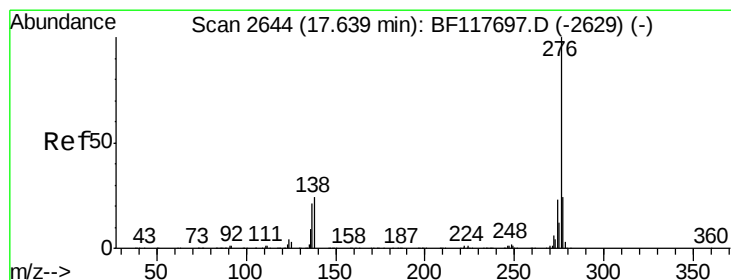
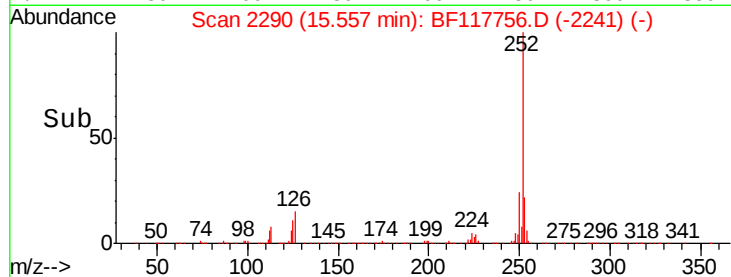
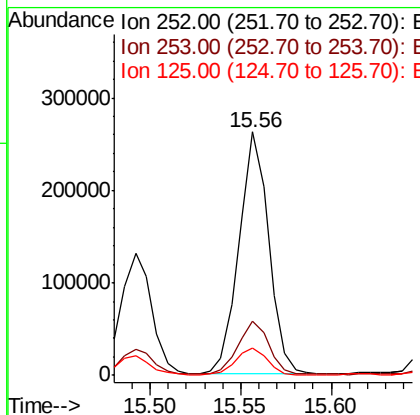
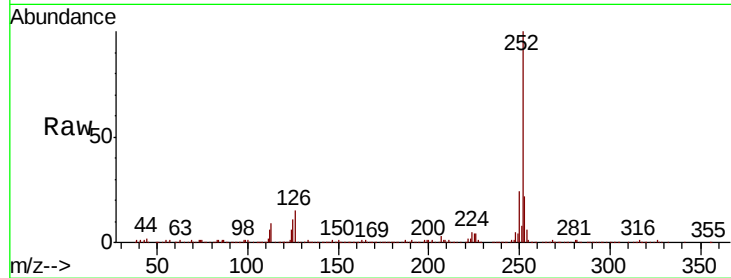
#90
Benzo(a)pyrene
Concen: 7.279 ng
RT: 15.56 min Scan# 2290
Delta R.T. -0.01 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Instrument :
BNA_F
ClientSampleId :
AOC-7-MIDDLE-(10)DL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2
125	11.4	9.6	14.4

Manual Integrations
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mohammad
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#92
Benzo(g,h,i)perylene
Concen: 3.553 ng
RT: 17.61 min Scan# 2639
Delta R.T. -0.02 min
Lab File: BF117756.D
Acq: 12 Nov 2019 12:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.6
138	22.1	18.6	27.8

