

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
 Data File : BF116991.D
 Acq On : 12 Sep 2019 14:55
 Operator : HP/JU
 Sample : K4850-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(5)

Manual Integrations
 APPROVED

mohammad
 9/16/2019 8:59:31 AM

Quant Time: Sep 13 07:52:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 12 08:24:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	60206	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	234865	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	111892	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	169828	20.00	ng	0.00
76) Chrysene-d12	13.97	240	104292	20.00	ng	0.00
87) Perylene-d12	15.42	264	138818	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.44	112	350903	94.42	ng	0.00
7) Phenol-d6	6.46	99	473920	97.12	ng	0.00
23) Nitrobenzene-d5	7.38	82	278017	67.58	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	85333	114.08	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	398350	60.06	ng	0.00
79) Terphenyl-d14	12.92	244	264205	46.86	ng	0.00

Target Compounds

						Qvalue
38) 1-Methylnaphthalene	8.91	142	33297	4.747	ng	# 93
49) Acenaphthylene	9.72	152	155861	15.332	ng	100
50) Dimethylphthalate	9.56	163	97993	12.685	ng	# 99
52) Acenaphthene	9.89	154	48459	7.758	ng	100
58) Fluorene	10.40	166	42266	6.300	ng	100
72) Anthracene	11.41	178	59857	6.290	ng	97
75) Fluoranthene	12.55	202	183126	19.711	ng	96
78) Pyrene	12.78	202	787452	84.938	ng	99
81) Benzo(a)anthracene	13.96	228	290527m	44.015	ng	
83) Chrysene	14.00	228	255285	37.541	ng	97
86) Indeno(1,2,3-cd)pyrene	16.85	276	130958	23.976	ng	96
88) Benzo(b)fluoranthene	15.00	252	297541m	35.452	ng	
89) Benzo(k)fluoranthene	15.03	252	53439m	6.983	ng	
90) Benzo(a)pyrene	15.36	252	351872	48.190	ng	98
91) Dibenzo(a,h)anthracene	16.86	278	40664	6.362	ng	94
92) Benzo(g,h,i)perylene	17.29	276	140679	21.582	ng	97

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

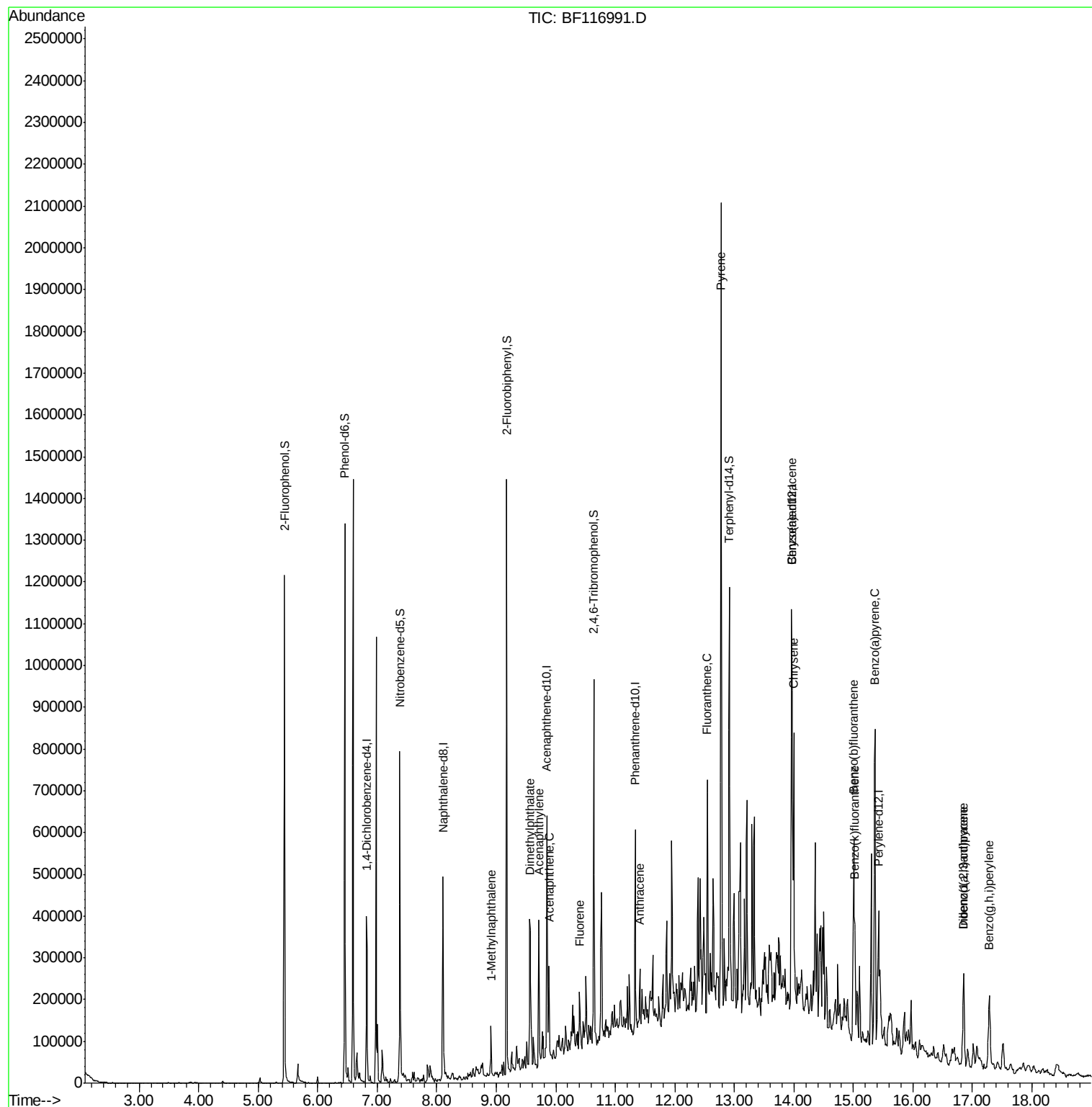
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF116991.D
Acq On : 12 Sep 2019 14:55
Operator : HP/JU
Sample : K4850-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

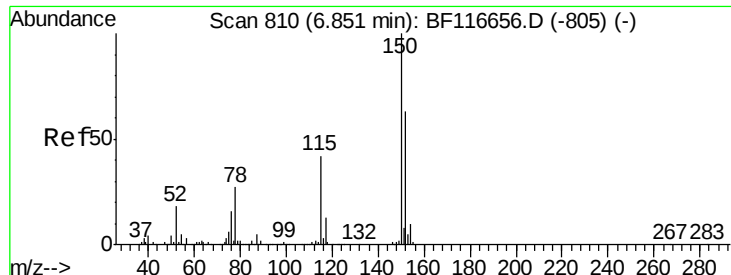
Instrument :
BNA_F
ClientSampleId :
AOC-7-(5)

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM

Quant Time: Sep 13 07:52:51 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 12 08:24:39 2019
Response via : Initial Calibration





#1

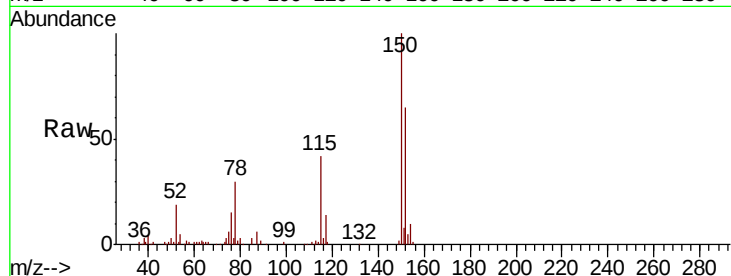
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampled :
AOC-7(-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	126.2	189.2
115	64.9	50.2	75.2

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM

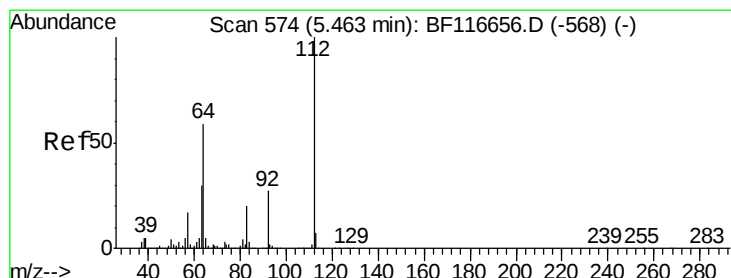
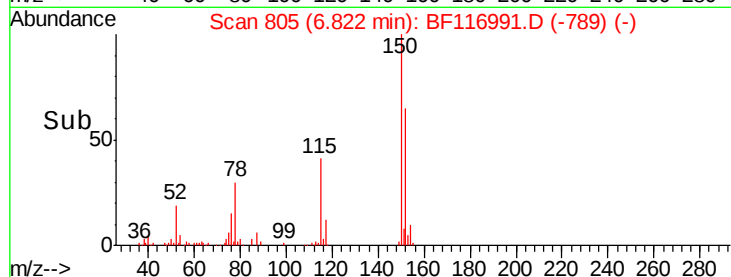
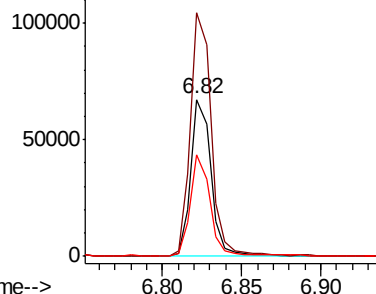


Abundance

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: 94.423 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

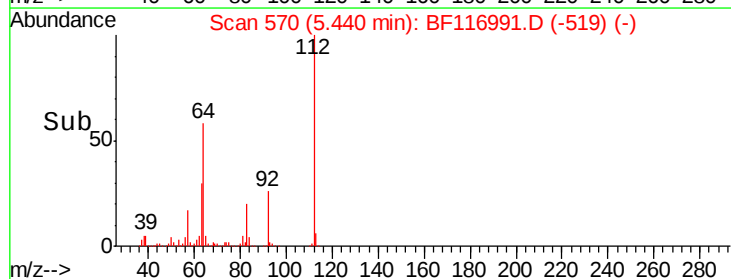
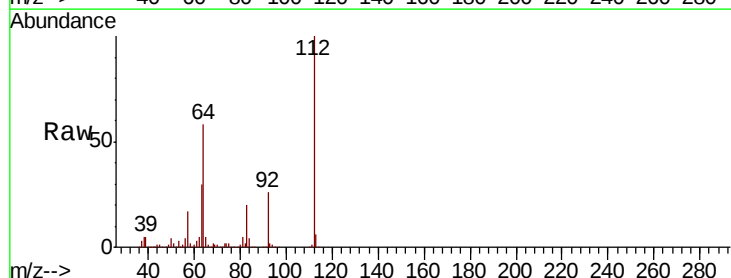
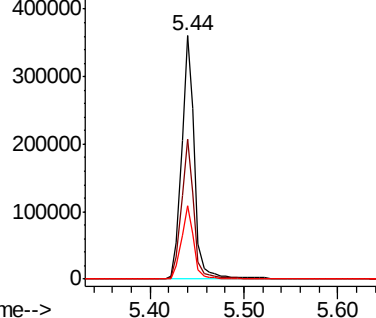
Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.1	70.7
63	30.2	25.4	38.0

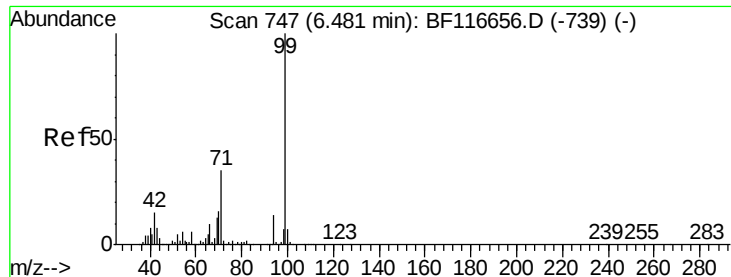
Abundance

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: 97.117 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF116991.D

Acq: 12 Sep 2019 14:55

Instrument :

BNA_F

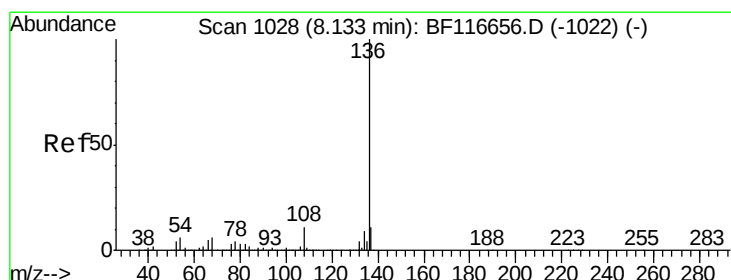
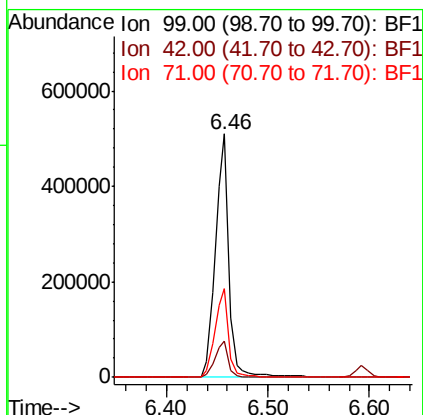
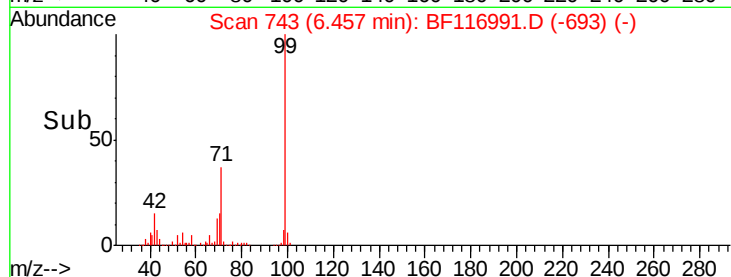
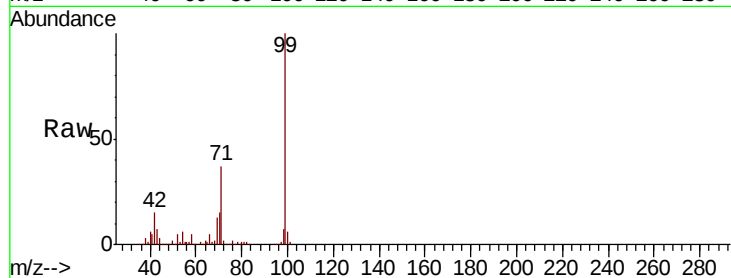
ClientSampleId :

AOC-7(-5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		473920		
42	14.8	12.0	18.0		
71	36.6	29.7	44.5		

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM



#21

Naphthalene-d8

Concen: 20.000 ng

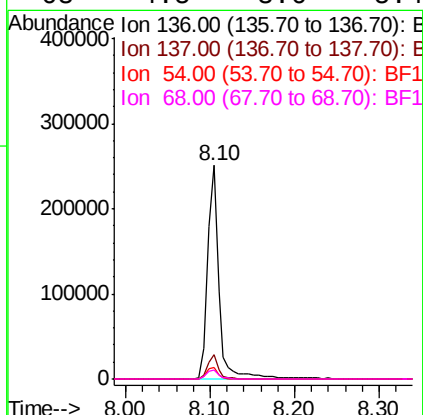
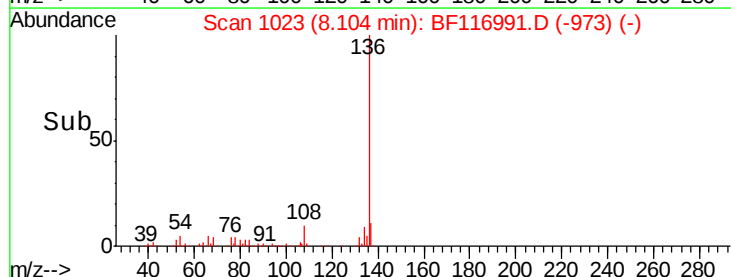
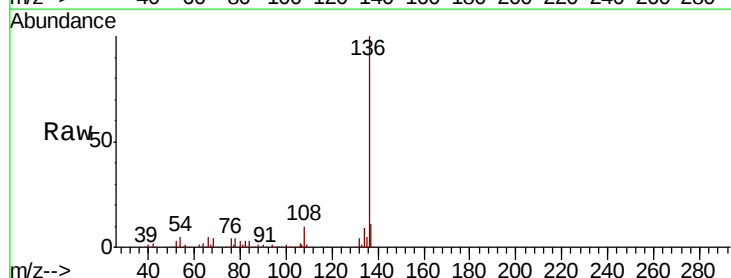
RT: 8.10 min Scan# 1023

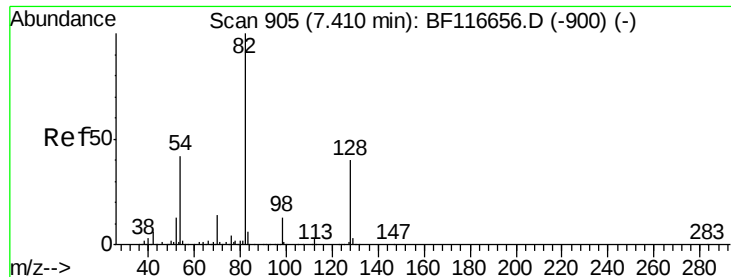
Delta R.T. -0.01 min

Lab File: BF116991.D

Acq: 12 Sep 2019 14:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		234865		
137	11.2	8.5	12.7		
54	5.3	3.8	5.8		
68	4.5	3.6	5.4		





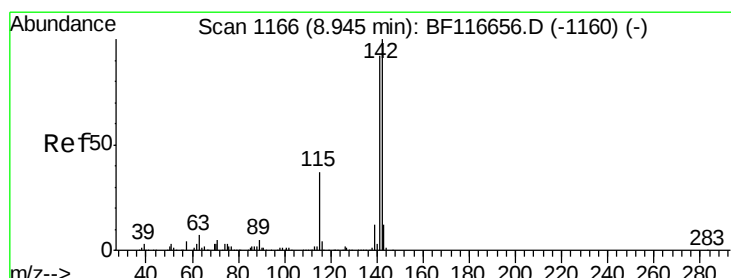
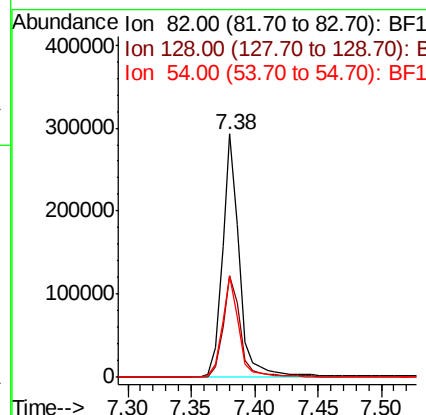
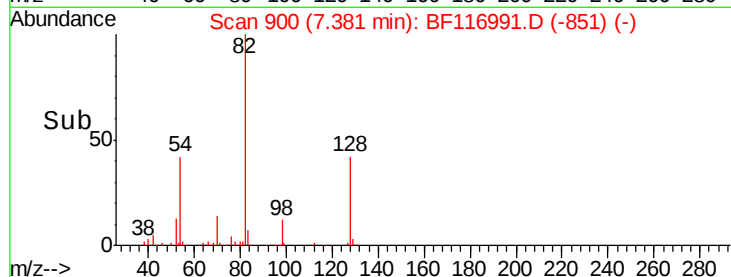
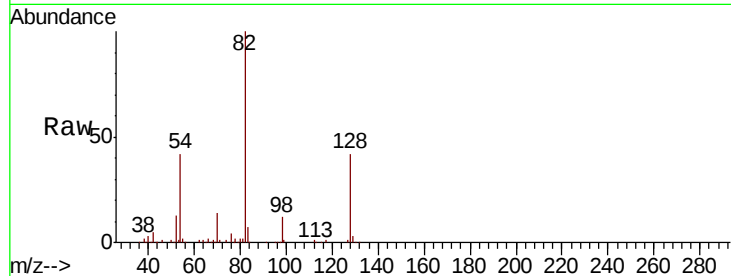
#23
 Nitrobenzene-d5
 Concen: 67.576 ng
 RT: 7.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.6	35.0	52.4
54	41.6	32.6	48.8

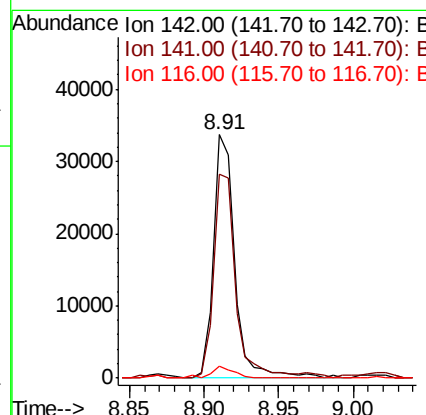
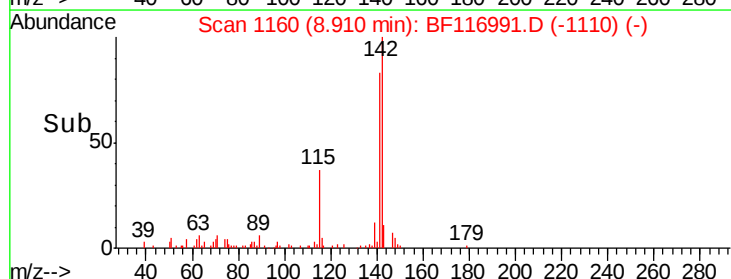
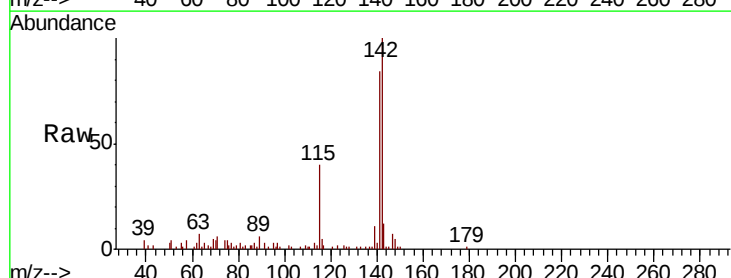
Manual Integrations
 APPROVED

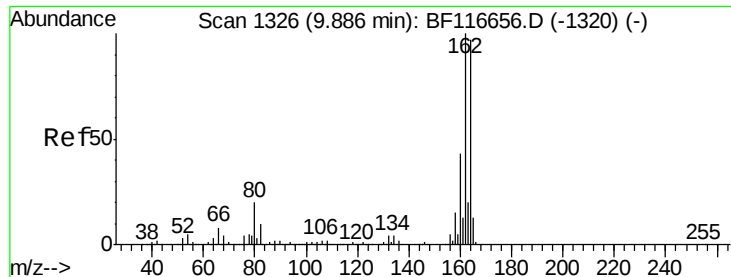
mohammad
 9/16/2019 8:59:31 AM



#38
 1-Methylnaphthalene
 Concen: 4.747 ng
 RT: 8.91 min Scan# 1160
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.6	71.9	107.9
116	5.1	3.2	4.8#





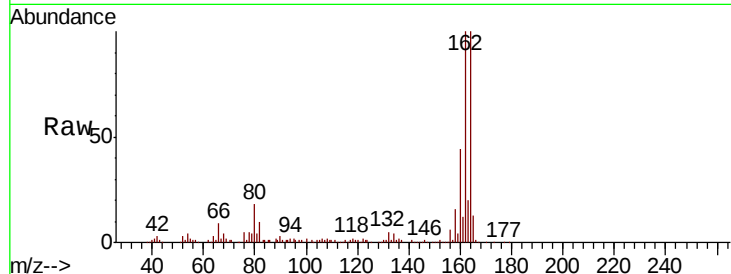
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(-5)

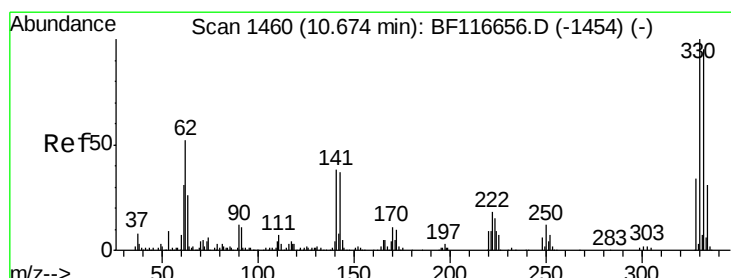
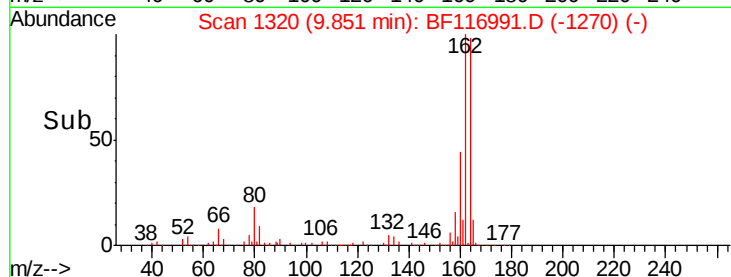
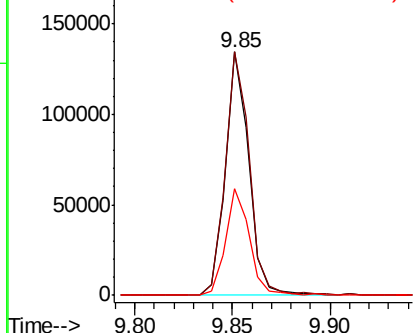
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.2	81.8	122.6	
160	43.9	35.7	53.5	

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM

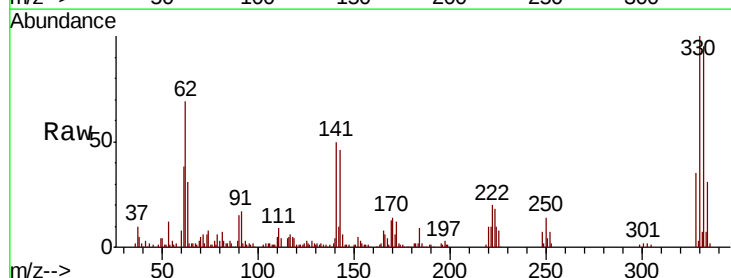


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

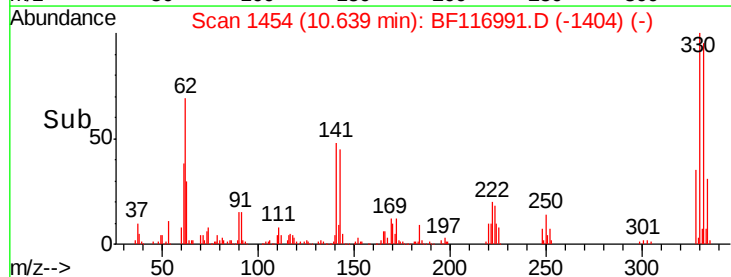
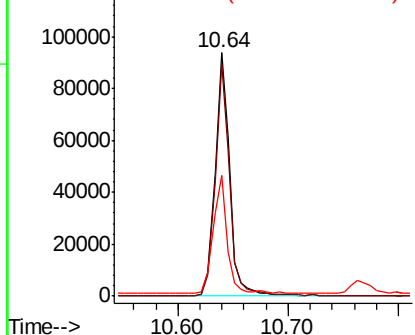


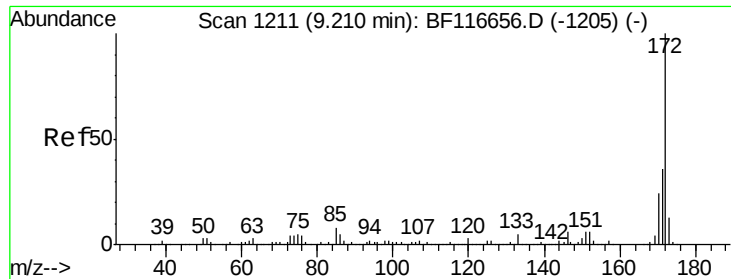
#42
2,4,6-Tribromophenol
Concen: 114.078 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.1	75.9	113.9	
141	45.4	35.6	53.4	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





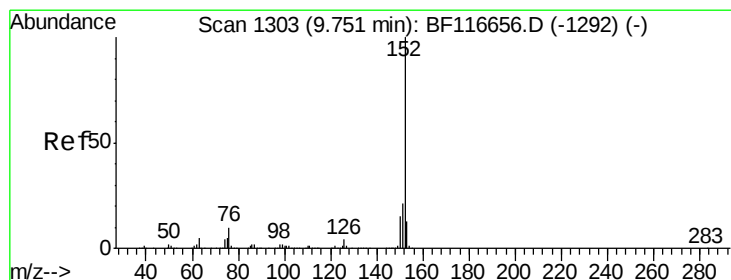
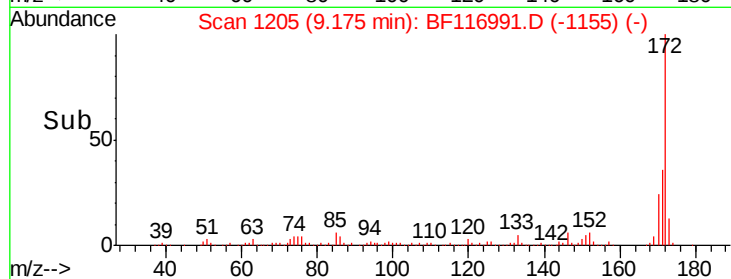
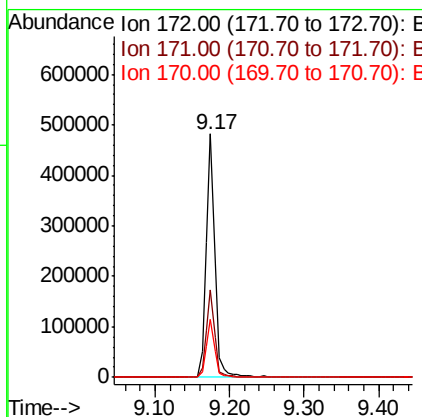
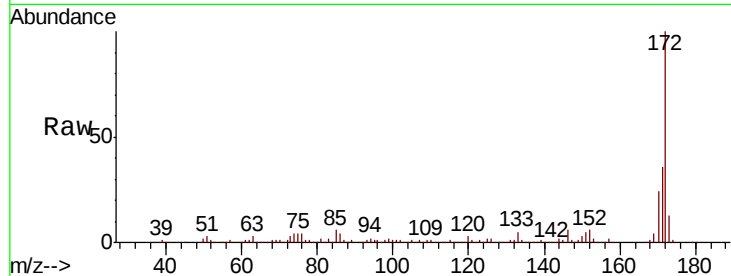
#45
2-Fluorobiphenyl
Concen: 60.056 ng
RT: 9.17 min Scan# 1205
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(-5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
172	100				
171	35.7	29.1	43.7		
170	23.8	19.2	28.8		

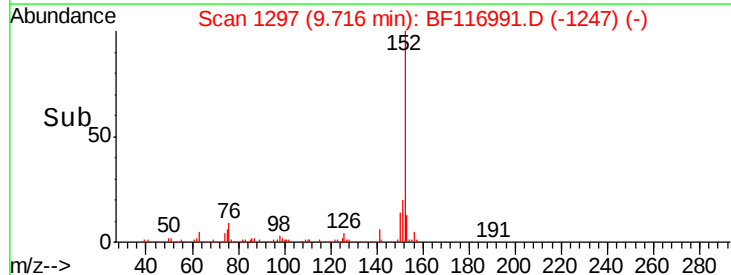
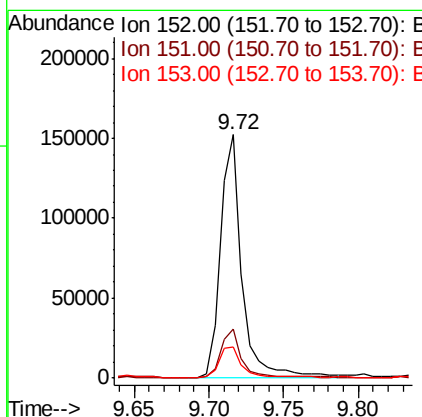
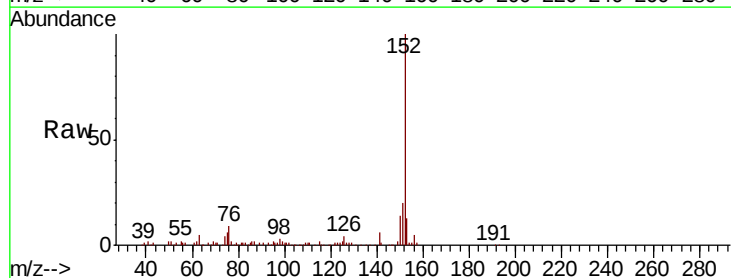
Manual Integrations
APPROVED

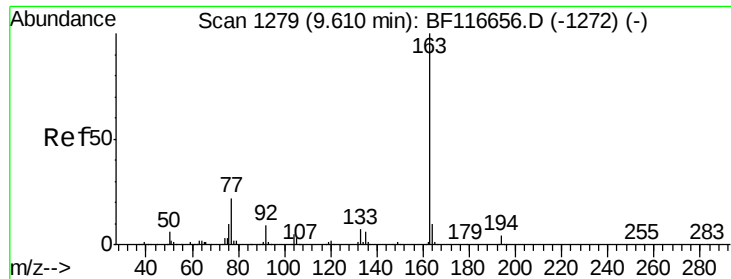
mohammad
9/16/2019 8:59:31 AM



#49
Acenaphthylene
Concen: 15.332 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100				
151	19.9	16.1	24.1		
153	12.8	10.3	15.5		





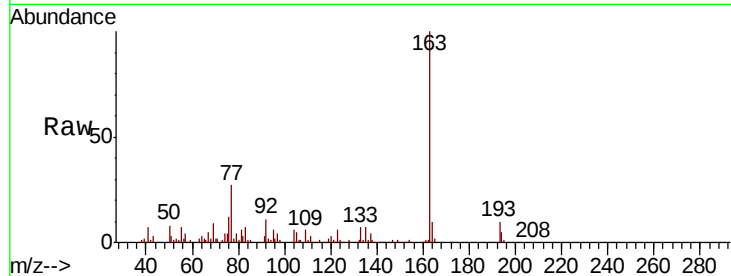
#50
Dimethylphthalate
Concen: 12.685 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(5)

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.6	2.7	4.1#	
164	10.1	8.2	12.4	

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM

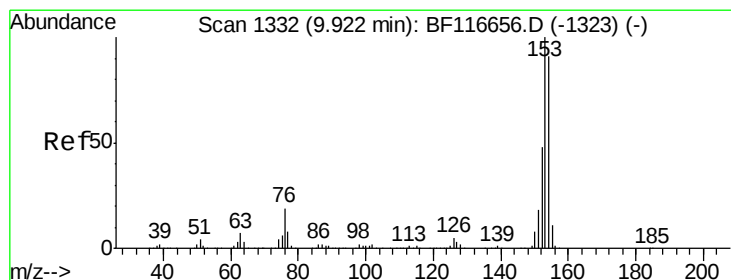
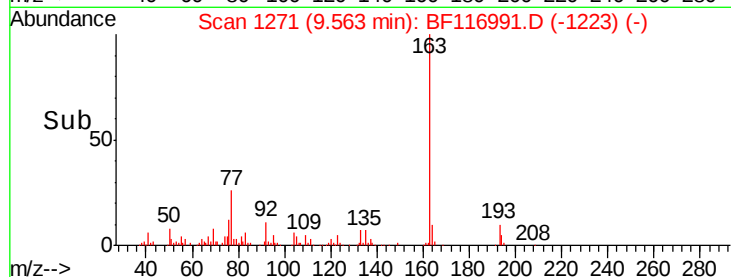
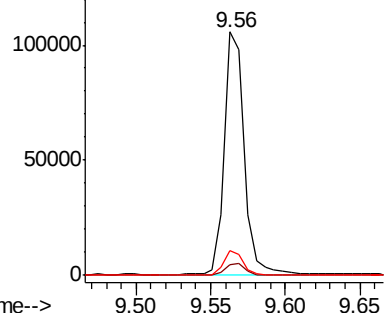


Abundance

Ion 163.00 (162.70 to 163.70): E

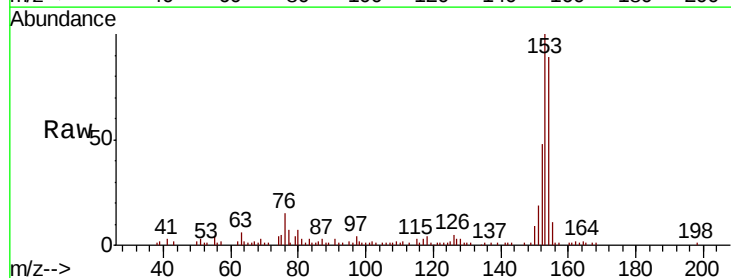
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 7.758 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	112.3	89.9	134.9	
152	53.3	42.6	63.8	

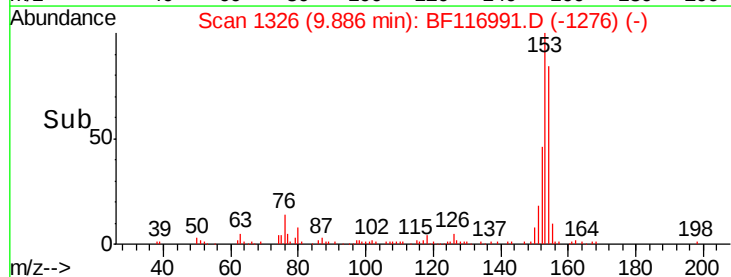
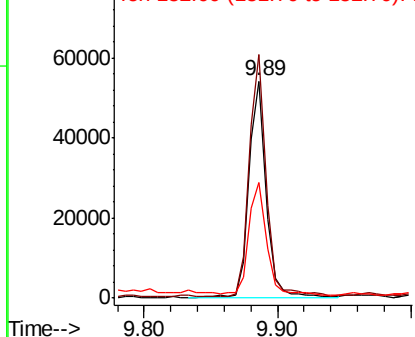


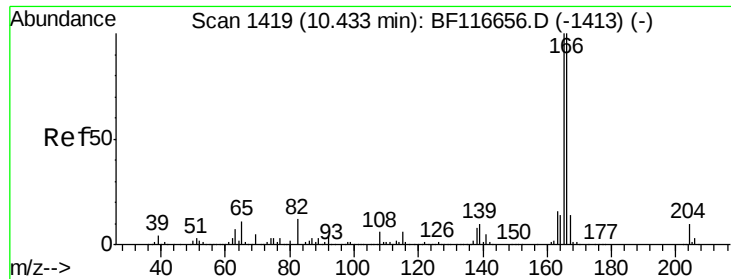
Abundance

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





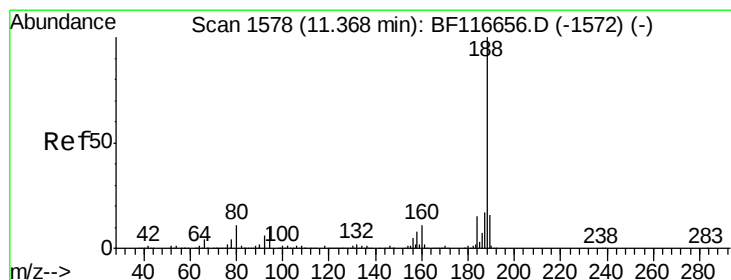
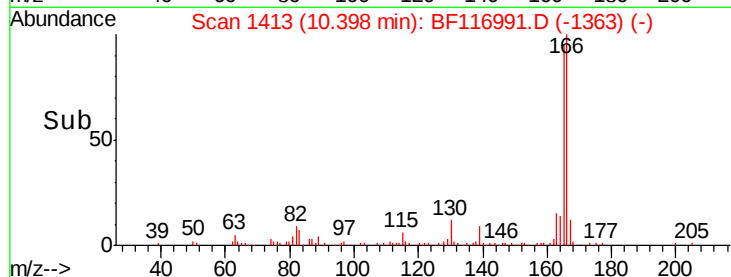
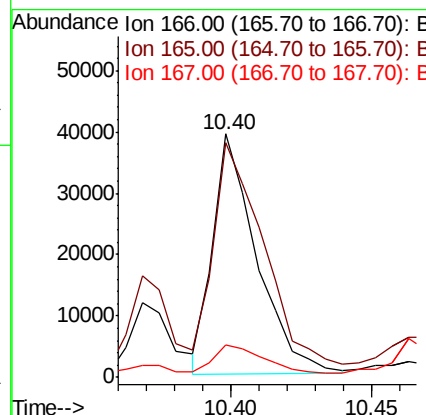
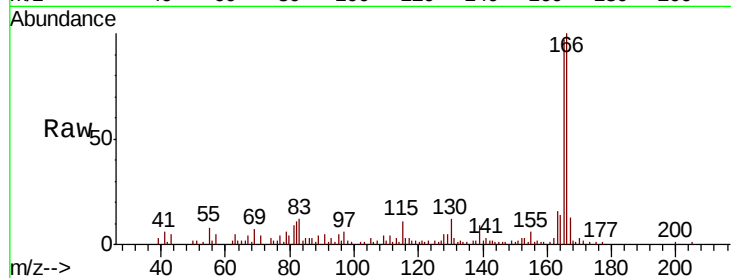
#58
 Fluorene
 Concen: 6.300 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.6	77.0	115.6
167	13.2	10.7	16.1

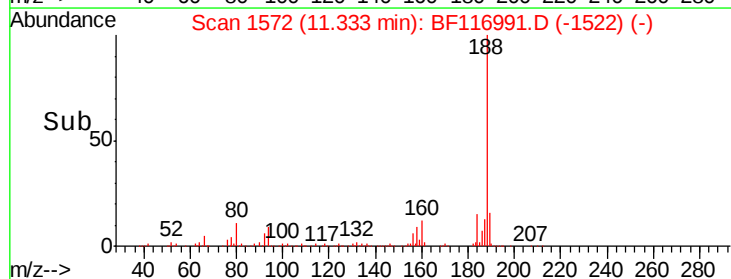
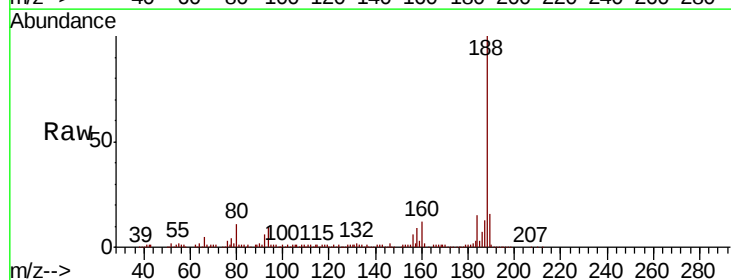
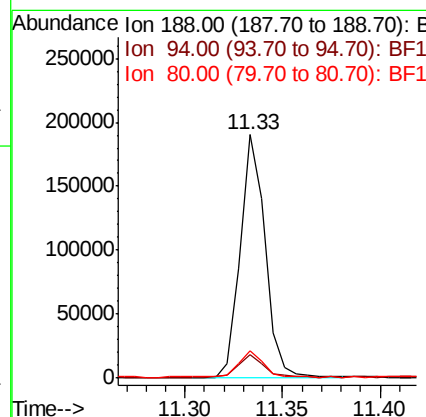
Manual Integrations
 APPROVED

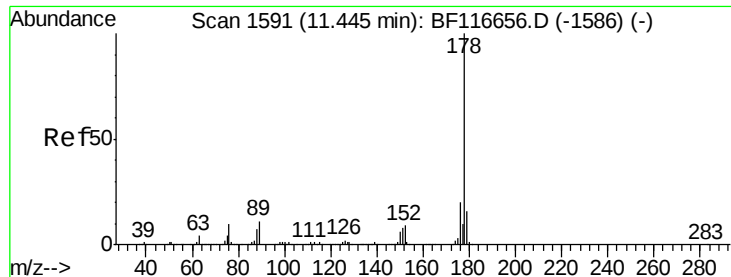
mohammad
 9/16/2019 8:59:31 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	11.3	8.5	12.7





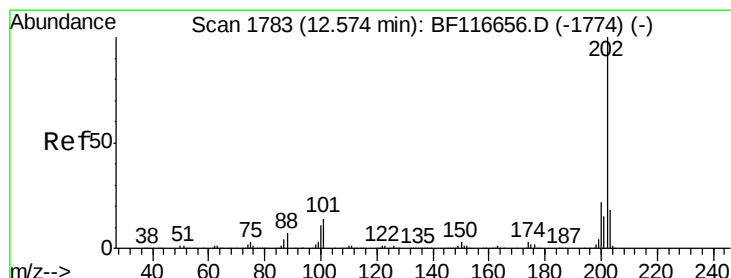
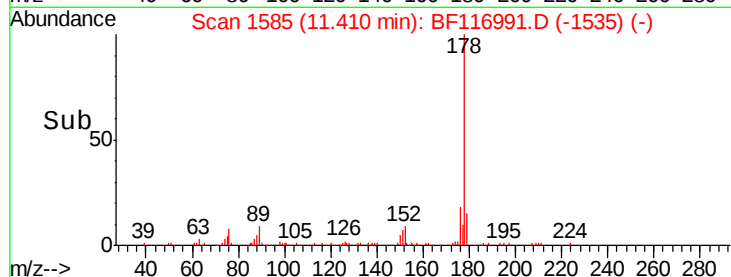
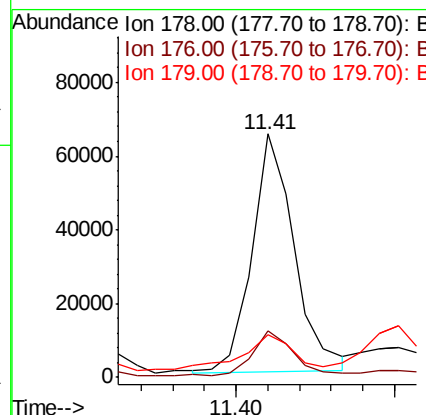
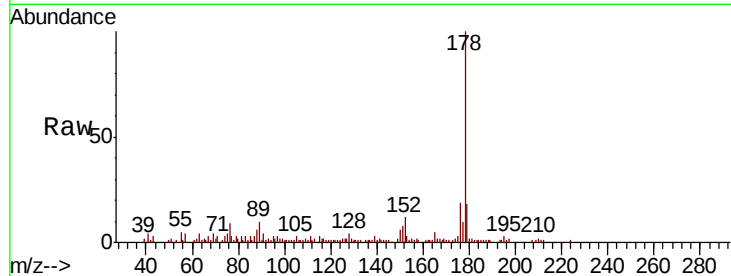
#72
 Anthracene
 Concen: 6.290 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	17.5	12.3	18.5

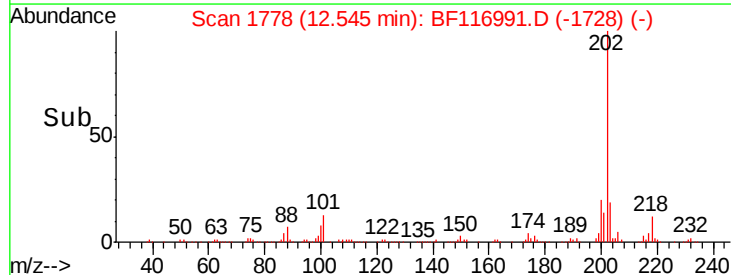
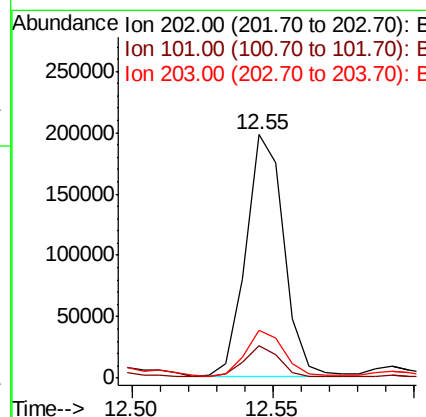
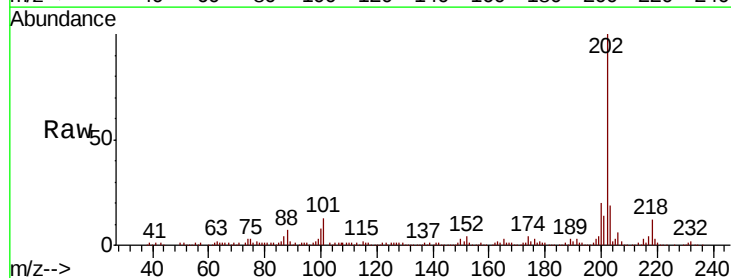
Manual Integrations
 APPROVED

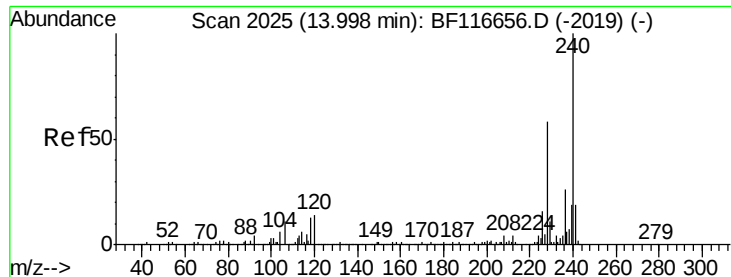
mohammad
 9/16/2019 8:59:31 AM



#75
 Fluoranthene
 Concen: 19.711 ng
 RT: 12.55 min Scan# 1778
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	32.0
203	19.5	0.0	37.5





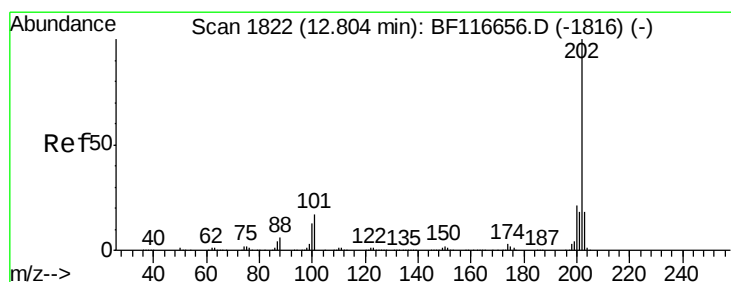
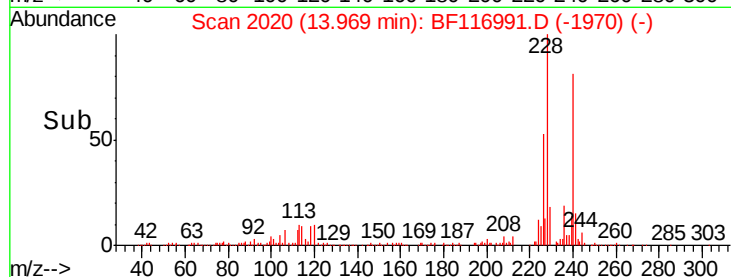
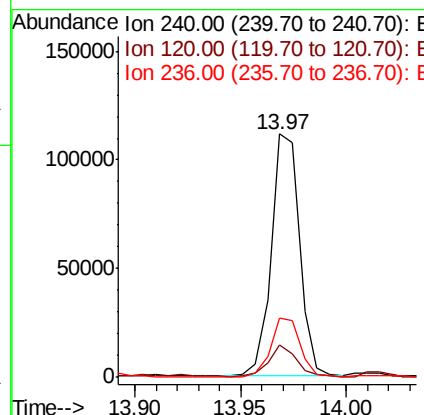
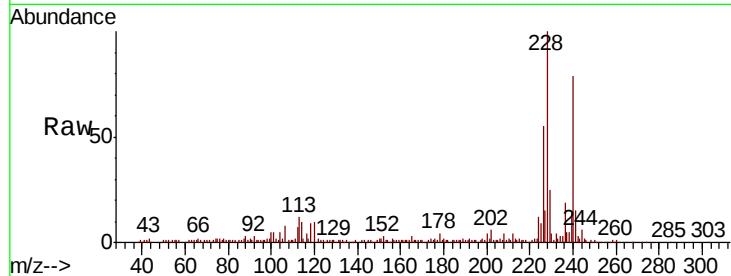
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(-5)

Tot Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	13.1	9.1	13.7
236	24.6	20.9	31.3

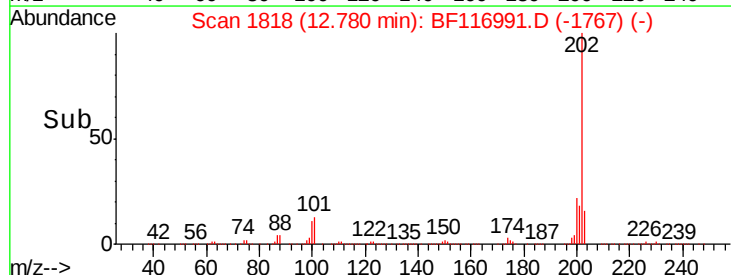
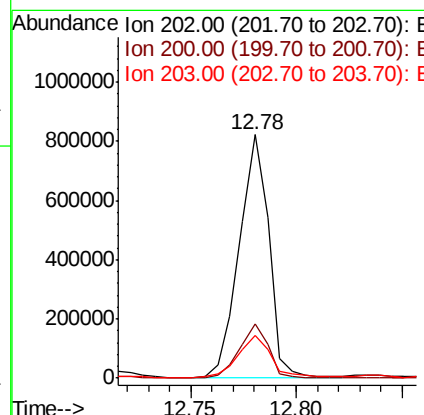
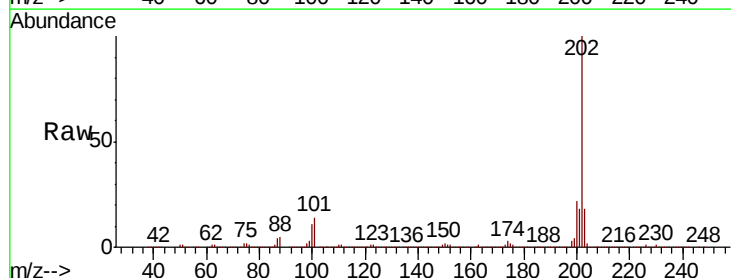
Manual Integrations
APPROVED

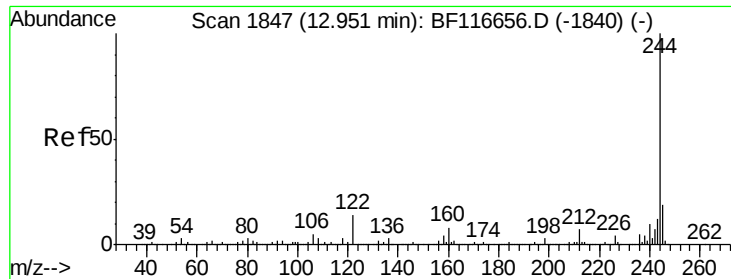
mohammad
9/16/2019 8:59:31 AM



#78
Pyrene
Concen: 84.938 ng
RT: 12.78 min Scan# 1818
Delta R.T. 0.00 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	22.1	17.2	25.8
203	17.8	14.2	21.2





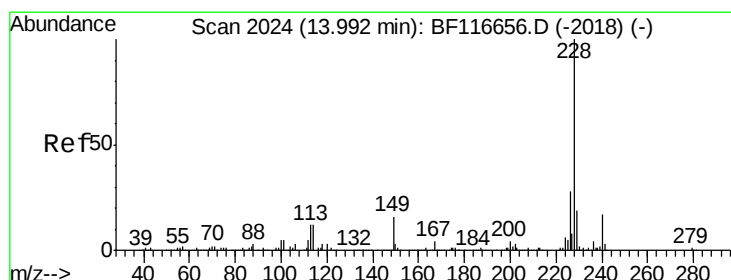
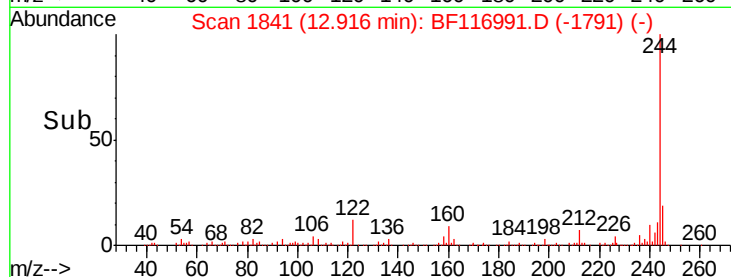
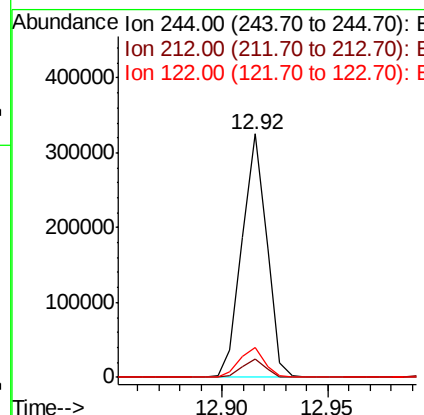
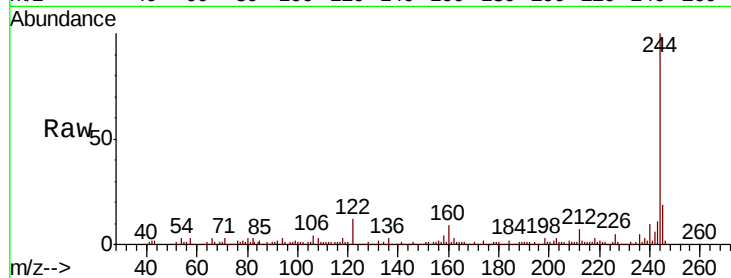
#79
 Terphenyl-d14
 Concen: 46.865 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7-(5)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.7	8.5
122	12.1	11.5	17.3

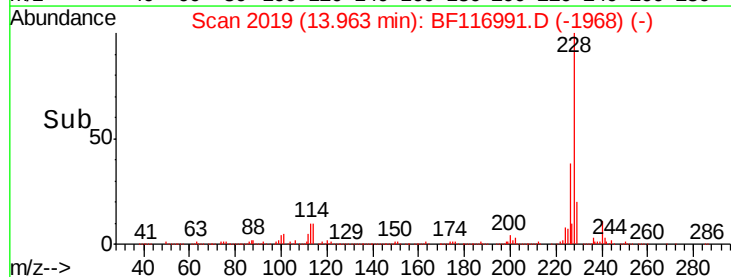
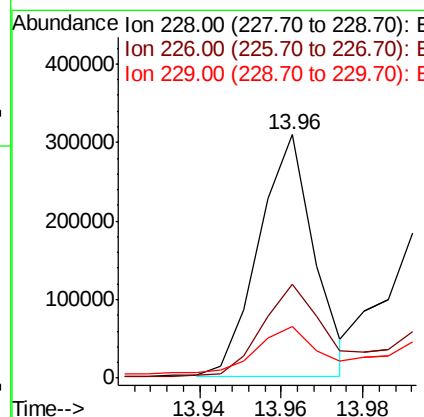
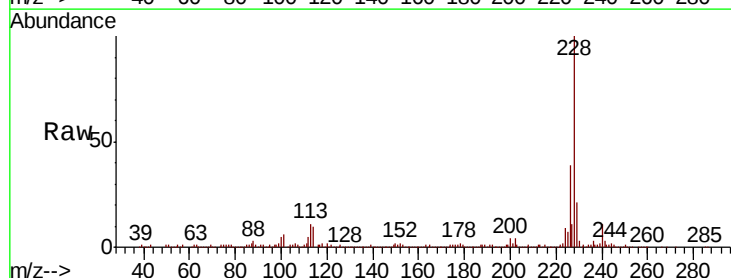
Manual Integrations
 APPROVED

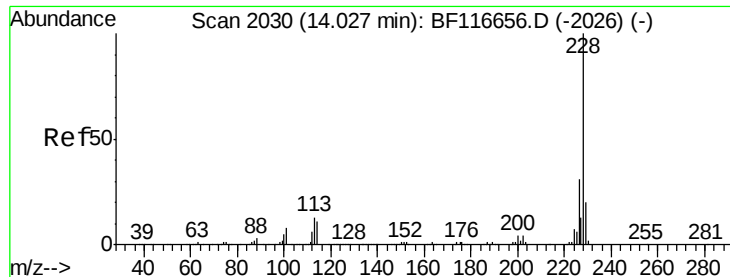
mohammad
 9/16/2019 8:59:31 AM



#81
 Benzo(a)anthracene
 Concen: 44.015 ng m
 RT: 13.96 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: BF116991.D
 Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.7	22.3	33.5#
229	21.3	15.8	23.8





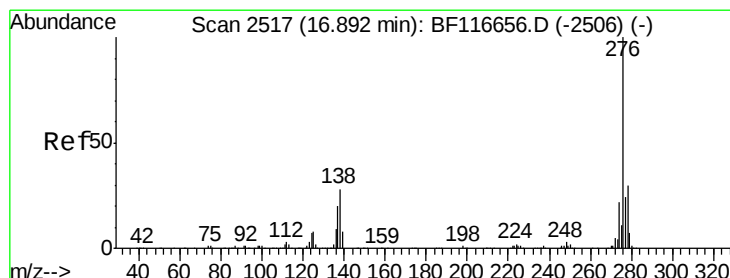
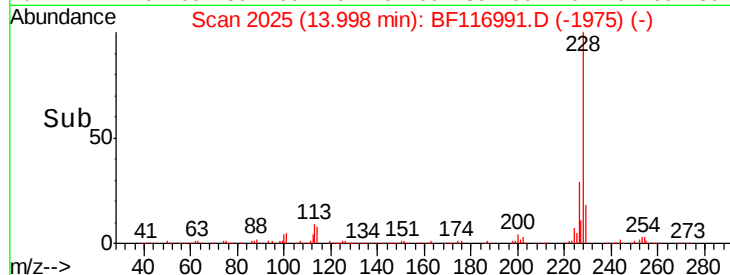
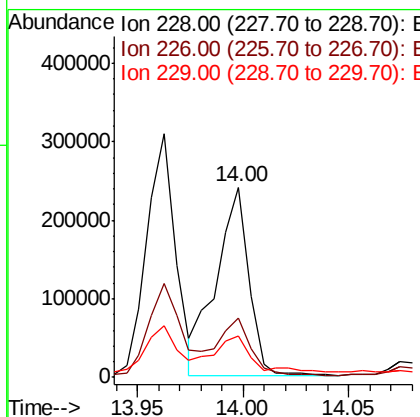
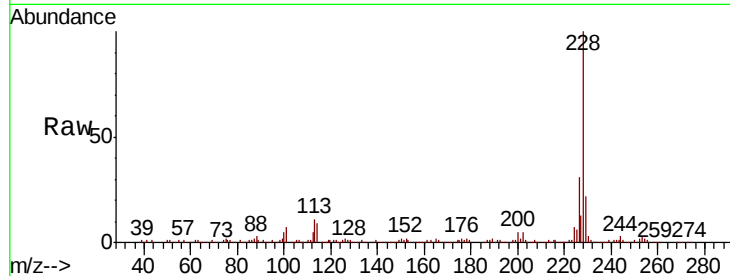
#83
Chrysene
Concen: 37.541 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(5)

Tot Ion:	228	Resp:	255285
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.5	36.7
229	22.0	15.7	23.5

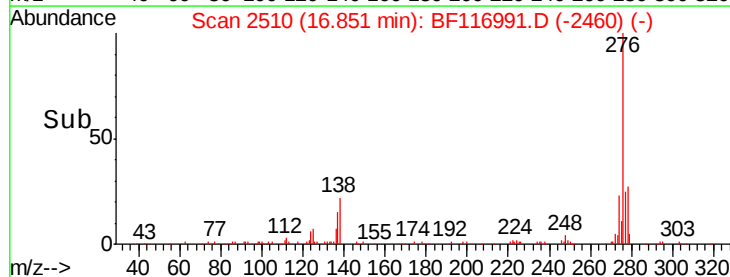
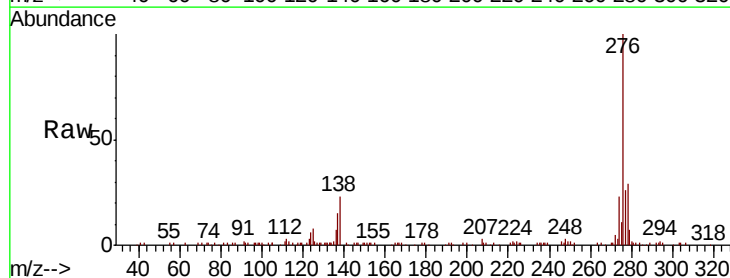
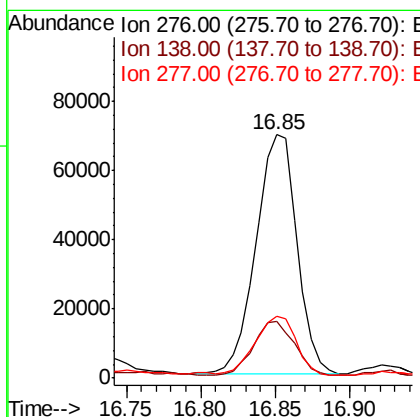
Manual Integrations
APPROVED

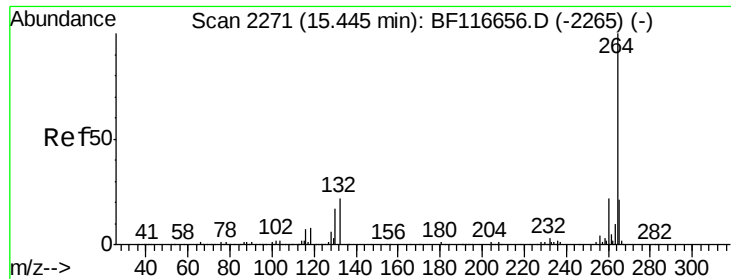
mohammad
9/16/2019 8:59:31 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 23.976 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion:	276	Resp:	130958
Ion Ratio	Lower	Upper	
276	100		
138	22.8	20.6	31.0
277	25.6	19.9	29.9





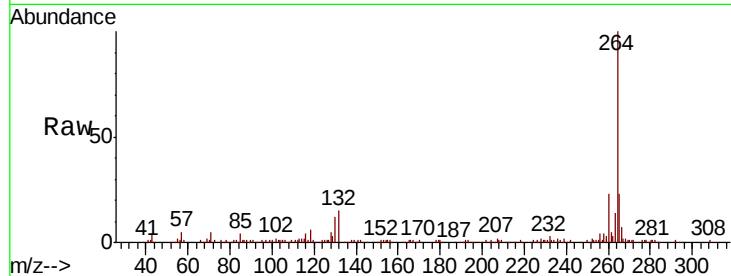
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7-(5)

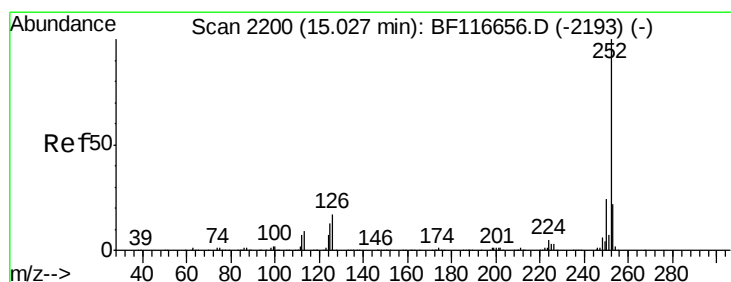
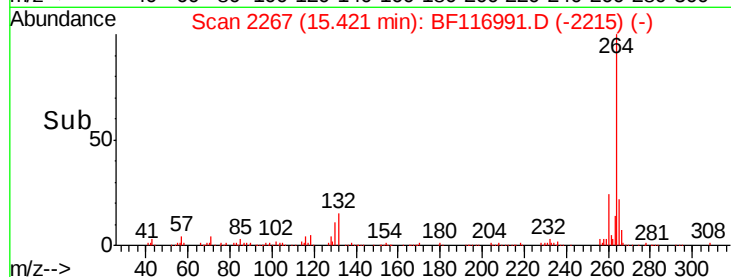
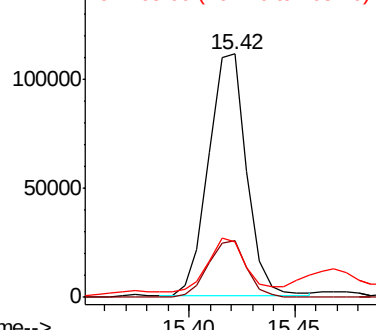
Tot Ion:	264	Resp:	138818
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.0	28.4
265	22.6	17.9	26.9

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM



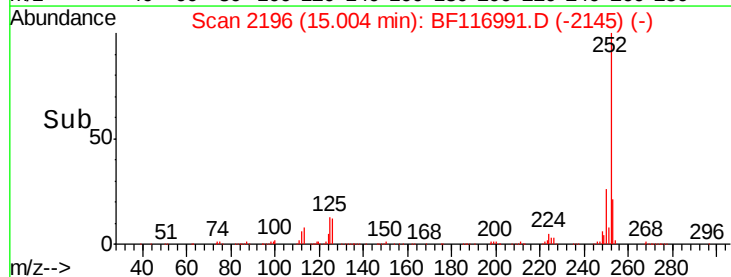
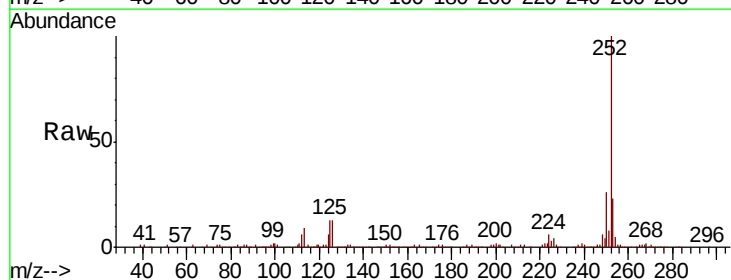
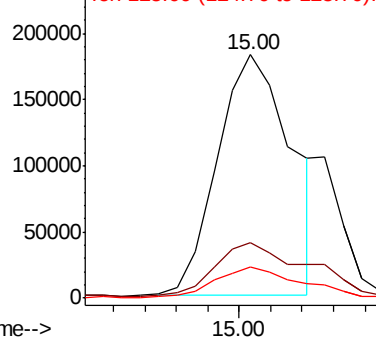
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

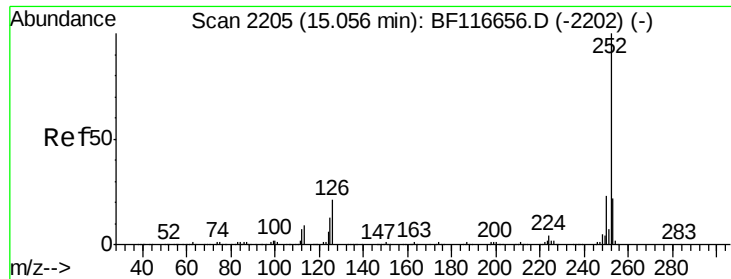


#88
Benzo(b)fluoranthene
Concen: 35.452 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.00 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion:	252	Resp:	297541
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.5	26.3
125	13.0	8.3	12.5#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





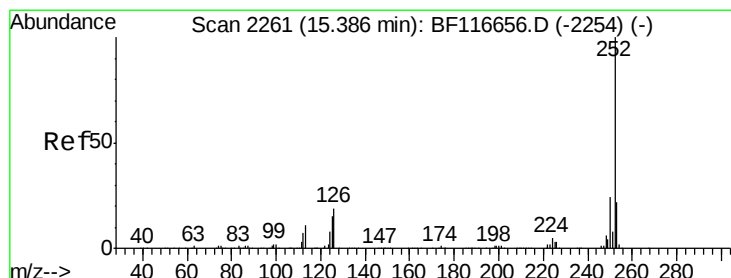
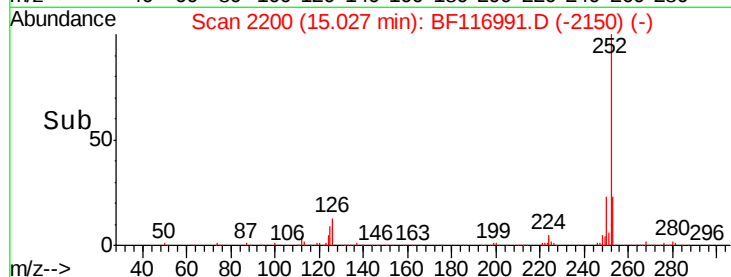
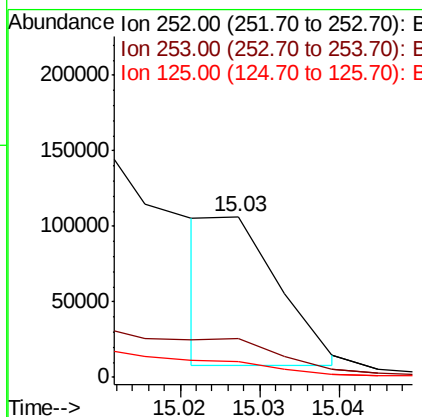
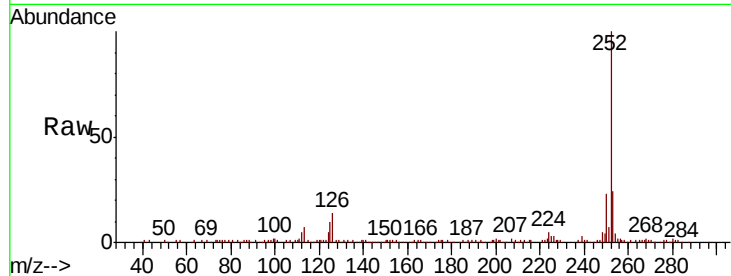
#89
Benzo(k)fluoranthene
Concen: 6.983 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	16.8	25.2
125	9.5	7.6	11.4

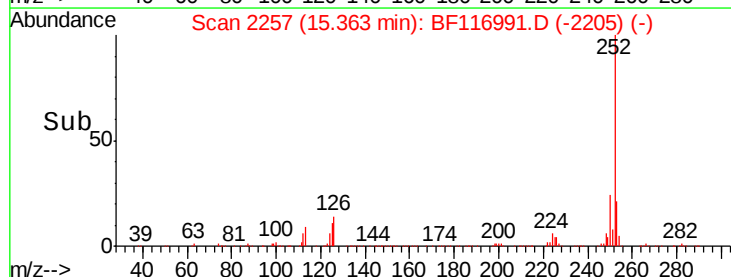
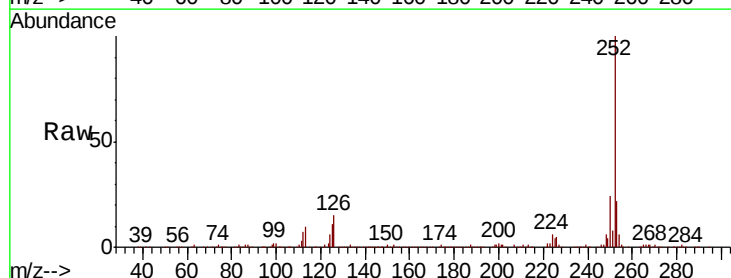
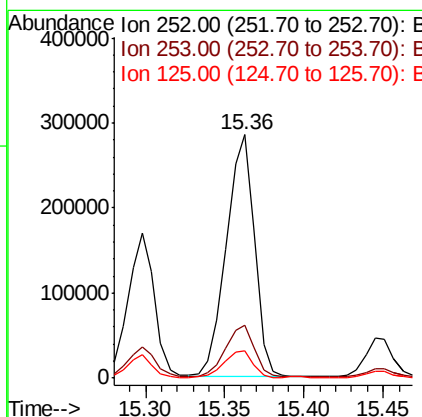
Manual Integrations
APPROVED

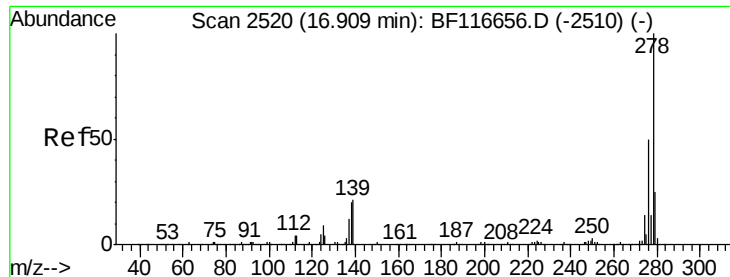
mohammad
9/16/2019 8:59:31 AM



#90
Benzo(a)pyrene
Concen: 48.190 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.6	26.4
125	11.0	10.2	15.2





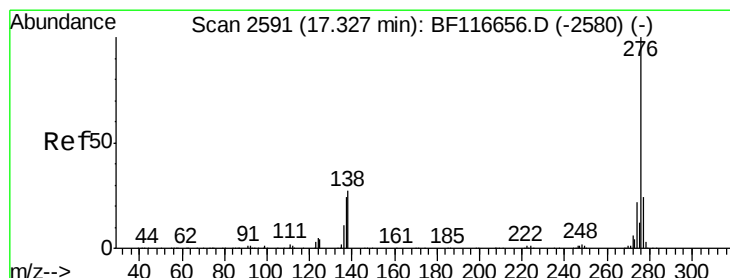
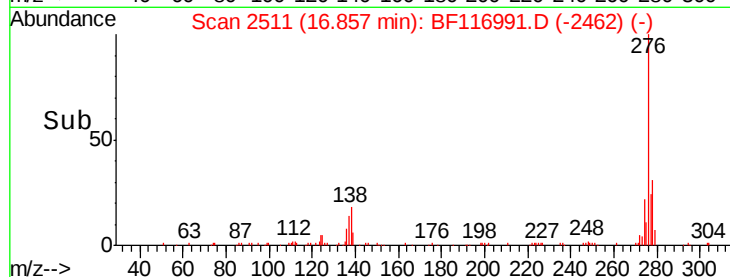
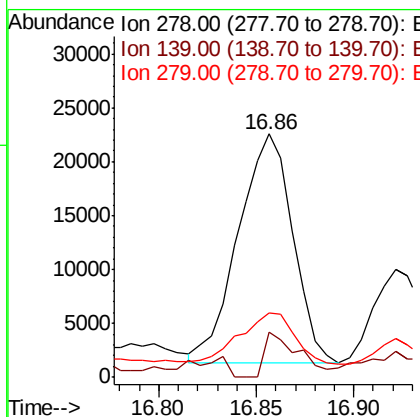
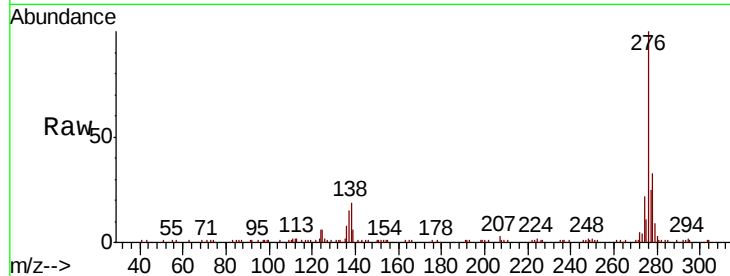
#91
Dibenzo(a,h)anthracene
Concen: 6.362 ng
RT: 16.86 min Scan# 2511
Delta R.T. -0.01 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Instrument :
BNA_F
ClientSampleId :
AOC-7(-5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.6	13.1	19.7
279	26.7	18.6	27.8

Manual Integrations
APPROVED

mohammad
9/16/2019 8:59:31 AM



#92
Benzo(g,h,i)perylene
Concen: 21.582 ng
RT: 17.29 min Scan# 2584
Delta R.T. 0.00 min
Lab File: BF116991.D
Acq: 12 Sep 2019 14:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	20.8	18.7	28.1

