

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
 Data File : BF094113.D
 Acq On : 1 Apr 2017 1:22
 Operator : SJ/MA
 Sample : I2463-08 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-12-13-BASE

Manual Integrations
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Quant Time: Apr 01 04:08:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.90	152	190375	20.00	ng	0.00
21) Naphthalene-d8	7.40	136	732074	20.00	ng	0.00
38) Acenaphthene-d10	9.55	164	305977	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	464175	20.00	ng	0.00
75) Chrysene-d12	14.63	240	317307	20.00	ng	0.00
86) Perylene-d12	16.26	264	310507	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	544680	48.32	ng	0.00
7) Phenol-d6	5.50	99	682089	48.92	ng	0.00
23) Nitrobenzene-d5	6.55	82	395153	30.80	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	86764	35.88	ng	0.00
44) 2-Fluorobiphenyl	8.72	172	735138	36.65	ng	-0.01
78) Terphenyl-d14	13.34	244	384947	27.19	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.43	128	145305	4.13	ng	99
37) 2-Methylnaphthalene	8.27	142	48294	2.06	ng	95
48) Acenaphthylene	9.37	152	127152	3.96	ng	98
49) Dimethylphthalate	9.22	163	48556	2.23	ng	98
51) Acenaphthene	9.58	154	77019	4.11	ng	97
54) Dibenzofuran	9.79	168	101271	3.97	ng	97
57) Fluorene	10.22	166	89751	4.24	ng	99
70) Phenanthrene	11.40	178	1286934	49.84	ng	99
71) Anthracene	11.46	178	293855	11.05	ng	97
72) Carbazole	11.66	167	158415	5.81	ng	98
74) Fluoranthene	12.87	202	1624434	61.44	ng	99
77) Pyrene	13.14	202	1414267	61.41	ng	99
80) Benzo(a)anthracene	14.62	228	736222	39.79	ng	98
82) Chrysene	14.66	228	726433	42.31	ng	97
85) Indeno(1,2,3-cd)pyrene	17.61	276	372949	25.08	ng	94
87) Benzo(b)fluoranthene	15.86	252	1048818m	55.11	ng	
88) Benzo(k)fluoranthene	15.88	252	260540m	13.99	ng	
89) Benzo(a)pyrene	16.20	252	633094	36.12	ng	99
90) Dibenzo(a,h)anthracene	17.62	278	101002	6.80	ng	94
91) Benzo(a,h,i)perylene	18.01	276	321924	21.52	ng	97

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

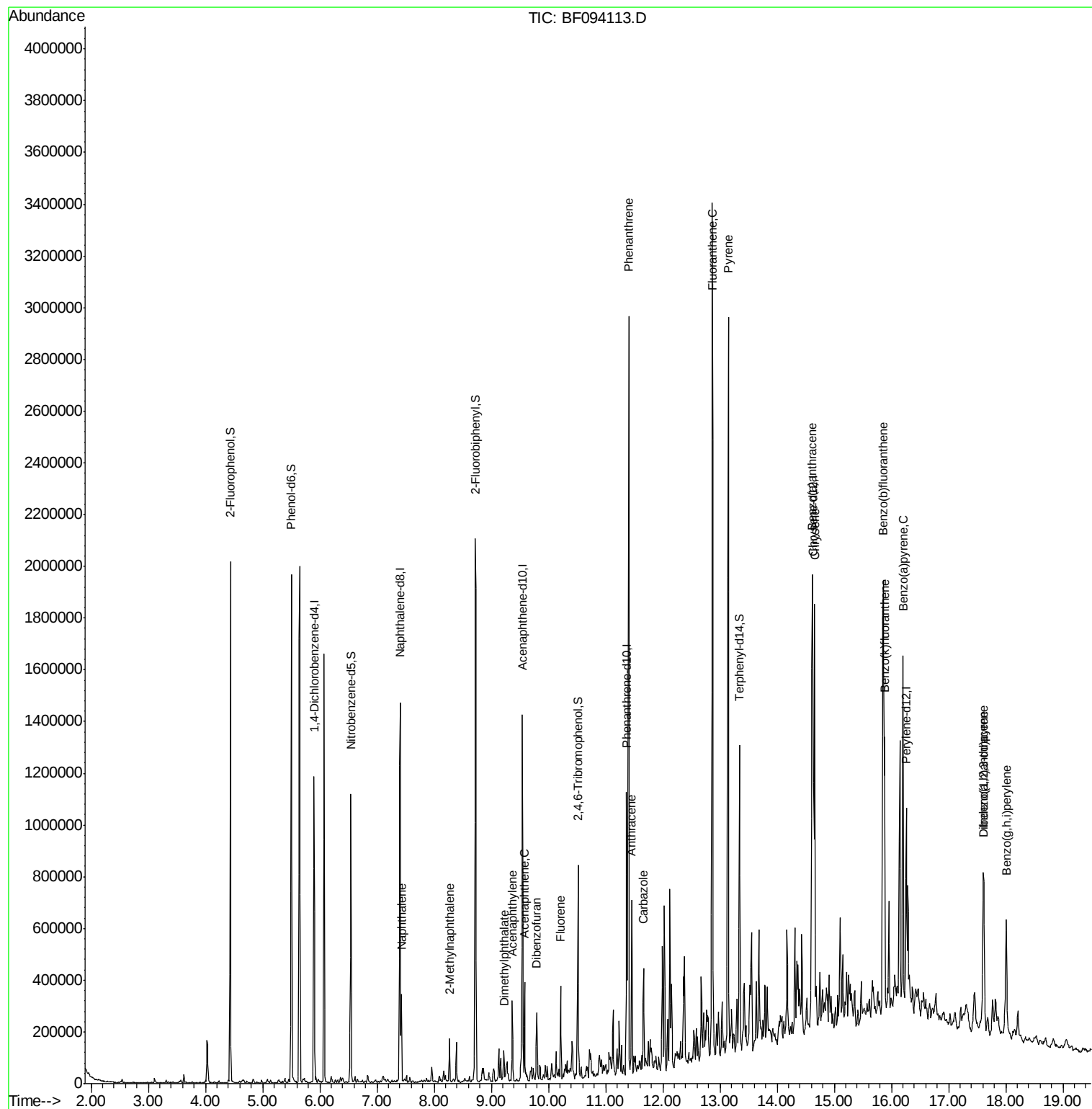
Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
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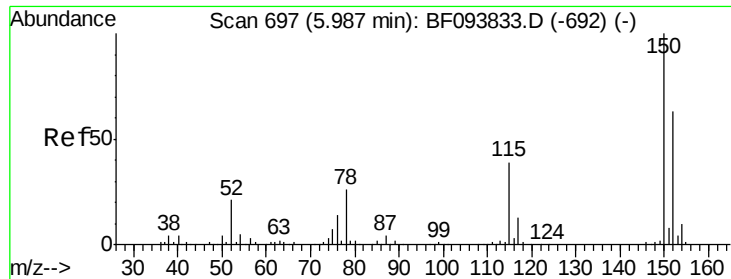
Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

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#1

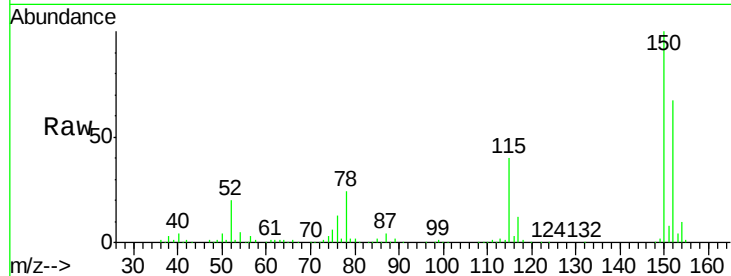
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.90 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

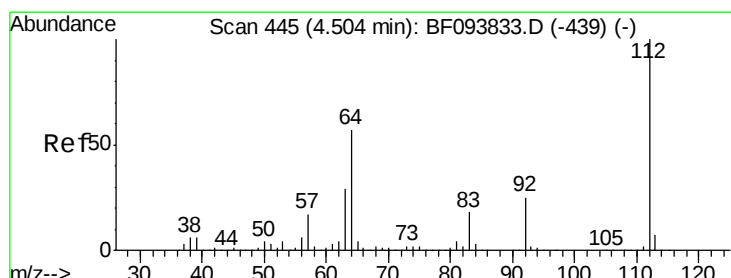
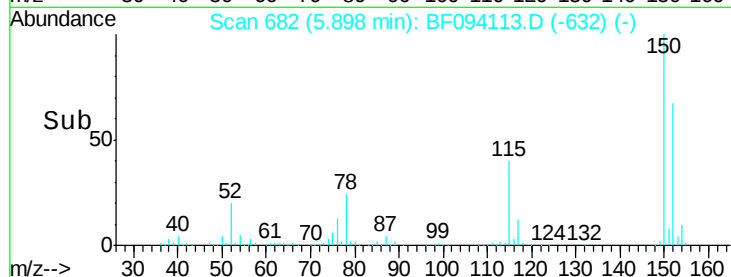
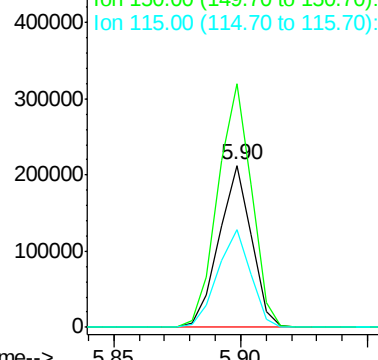
Tot Ion	Ratio	Lower	Upper
152	100		
150	150.0	126.2	189.2
115	59.8	52.2	78.2

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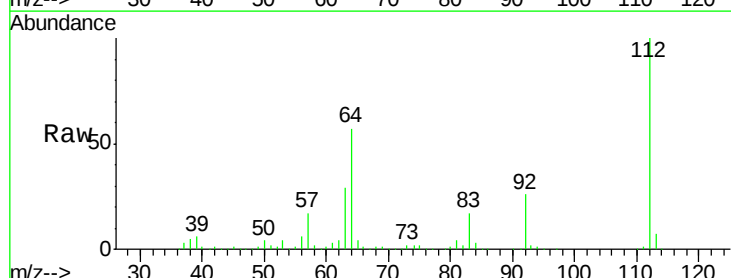
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



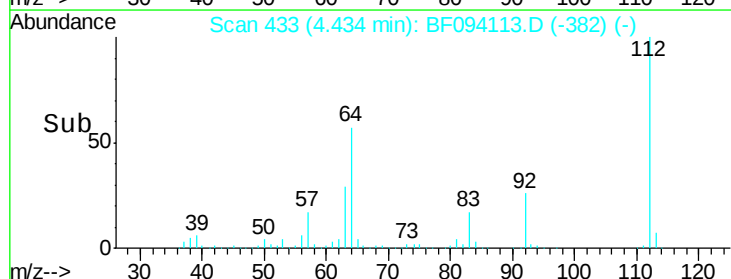
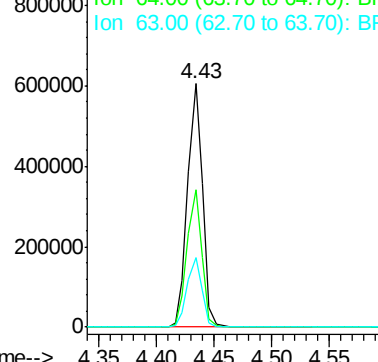
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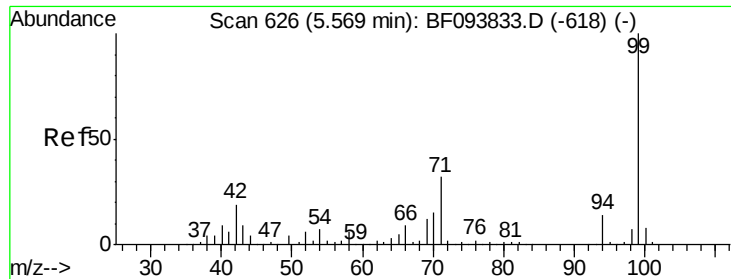
2-Fluorophenol
Concen: 48.32 ng
RT: 4.43 min Scan# 433
Delta R.T. -0.00 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	46.0	69.0
63	28.5	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 48.92 ng

RT: 5.50 min Scan# 615

Delta R.T. -0.01 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Instrument :

BNA_F

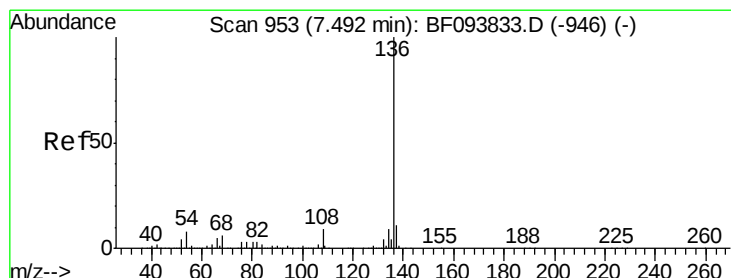
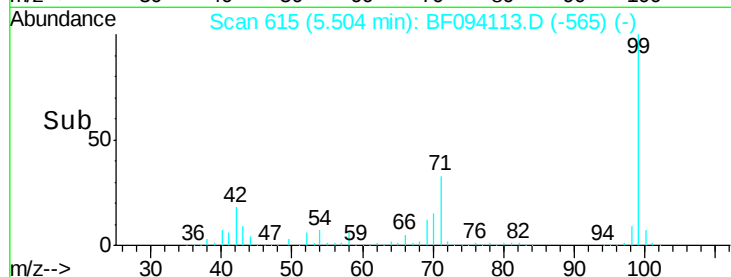
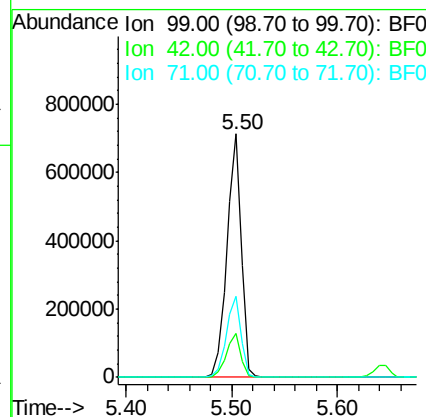
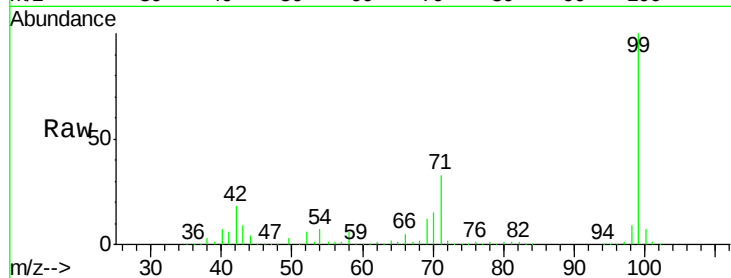
ClientSampleId :

E2-Q-P-12-13-BASE

Tot Ion:	99	Resp:	682089
Ion	Ratio	Lower	Upper
99	100		
42	17.9	13.5	20.3
71	33.3	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

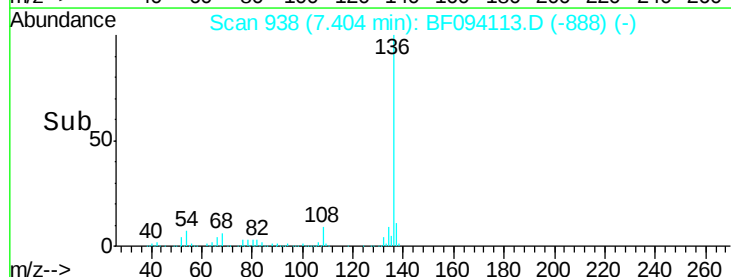
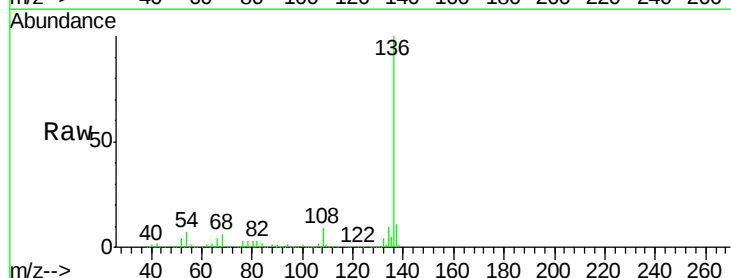
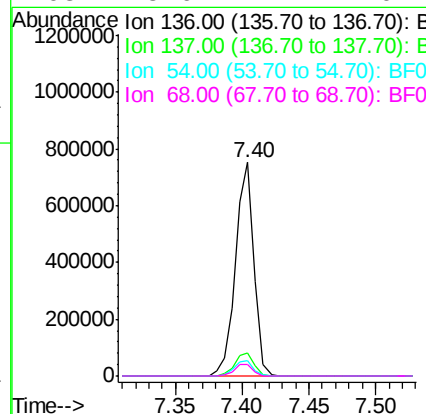
RT: 7.40 min Scan# 938

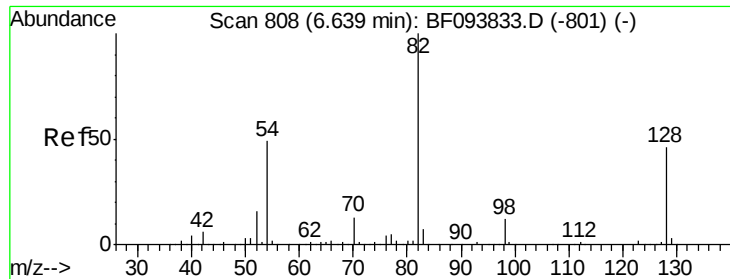
Delta R.T. -0.01 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Tgt Ion:	136	Resp:	732074
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	7.1	4.9	7.3
68	5.6	4.1	6.1





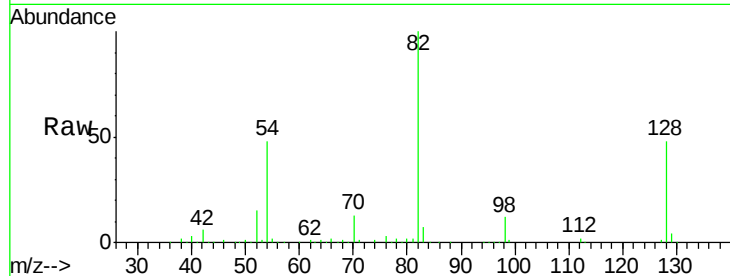
#23
Nitrobenzene-d5
Concen: 30.80 ng
RT: 6.55 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

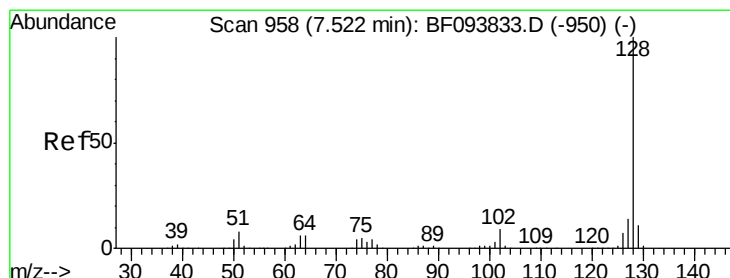
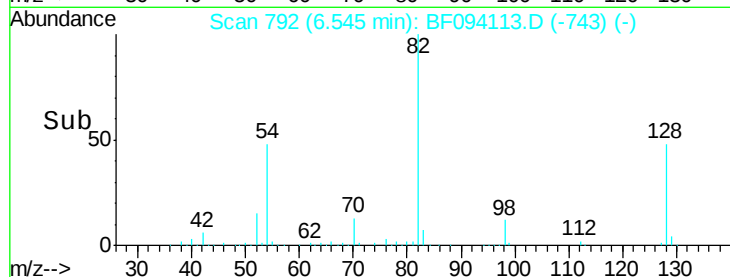
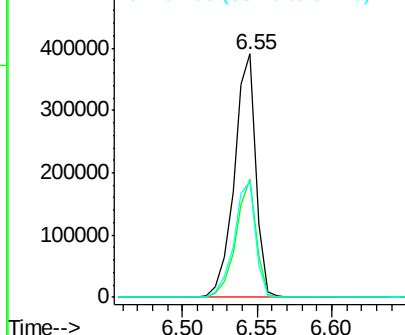
Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.4	34.0	51.0	
54	47.6	42.2	63.2	

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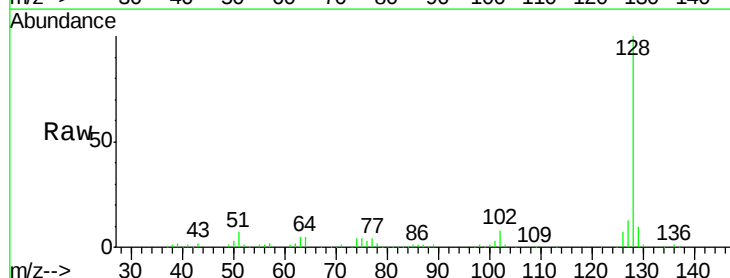


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

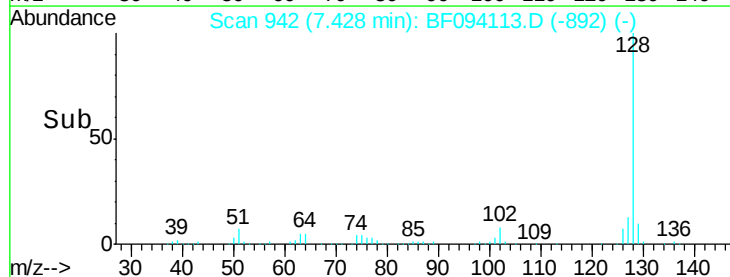
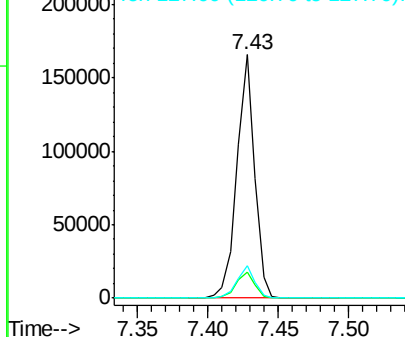


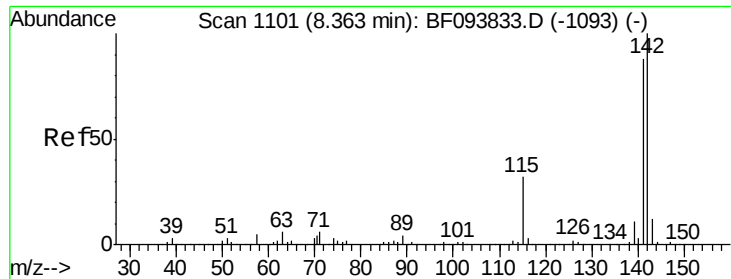
#31
Naphthalene
Concen: 4.13 ng
RT: 7.43 min Scan# 942
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.4	9.0	13.6	
127	13.2	10.8	16.2	



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





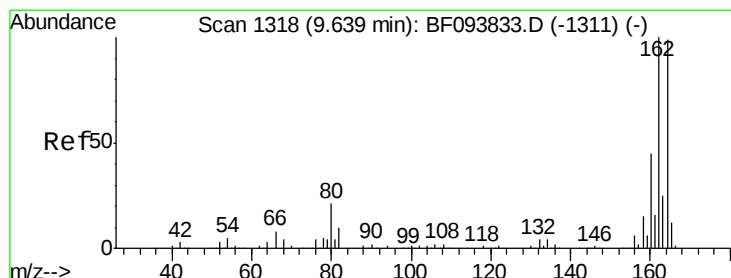
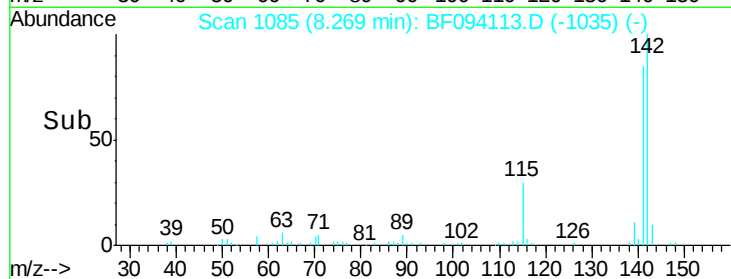
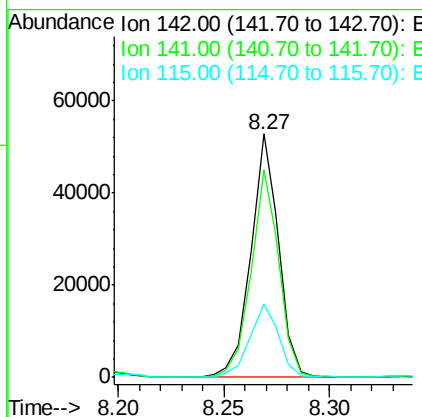
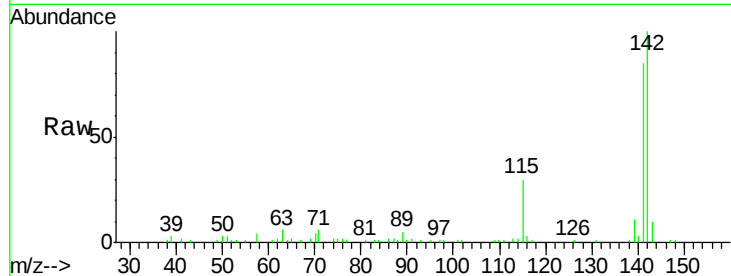
#37
2-Methylnaphthalene
Concen: 2.06 ng
RT: 8.27 min Scan# 1085
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.3	71.3	106.9
115	30.1	27.1	40.7

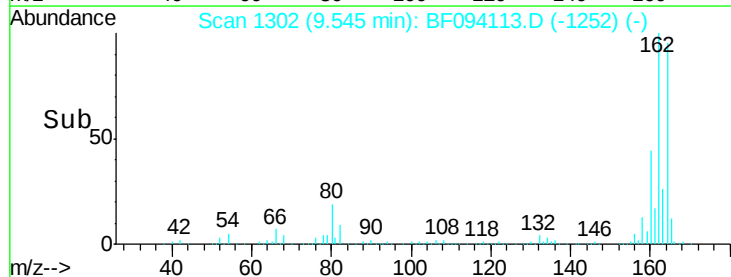
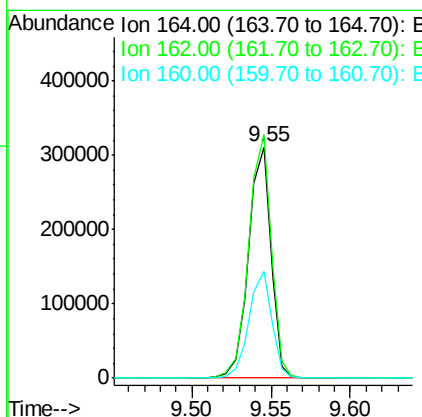
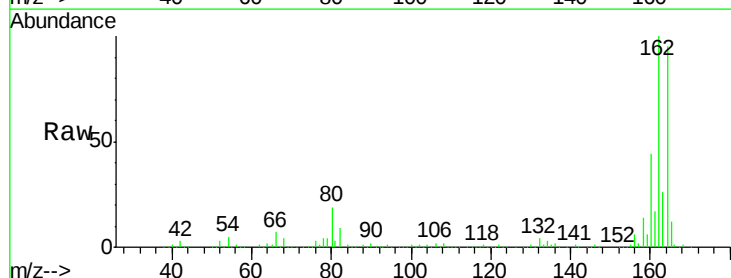
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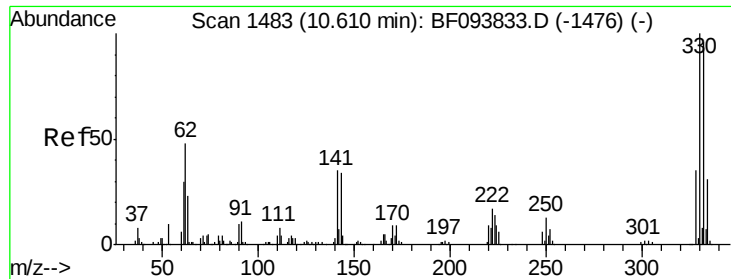
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.55 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.6	123.8
160	46.3	36.2	54.2





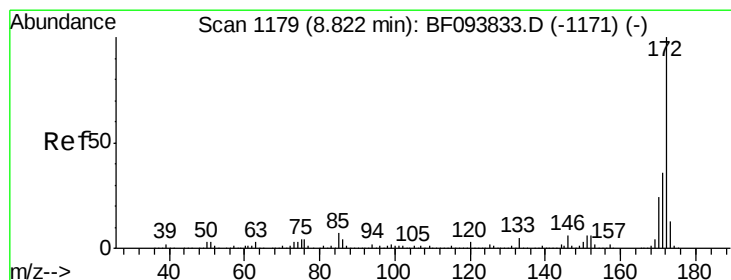
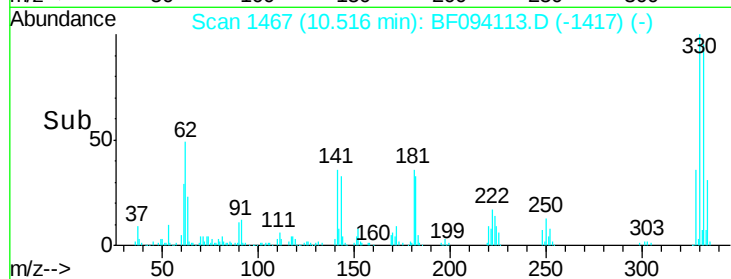
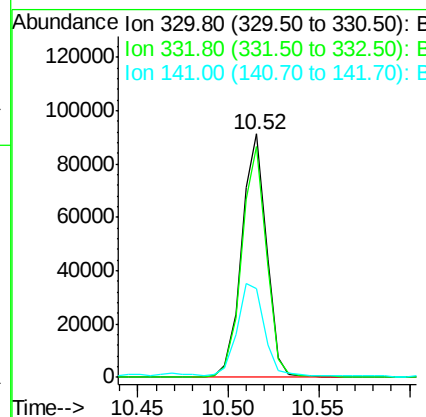
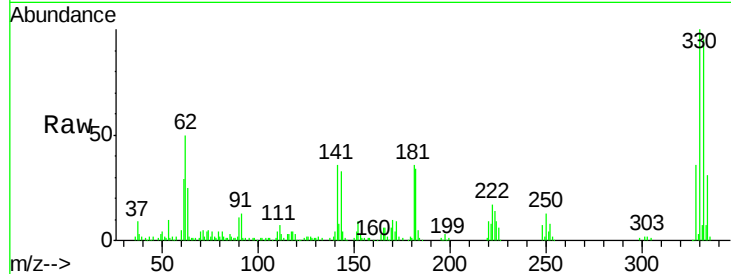
#41
 2,4,6-Tribromophenol
 Concen: 35.88 ng
 RT: 10.52 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.6	115.0
141	41.4	31.4	47.2

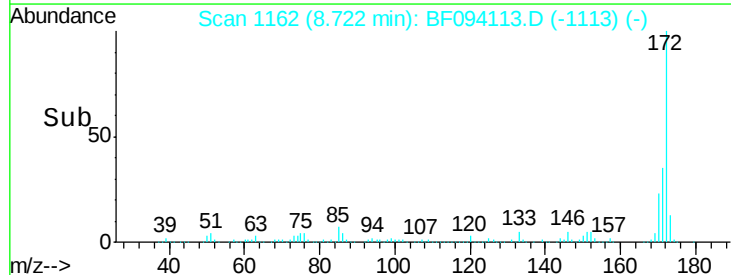
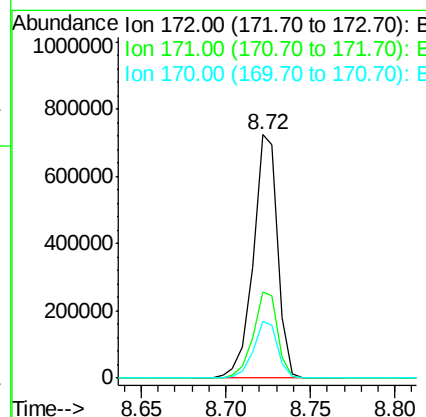
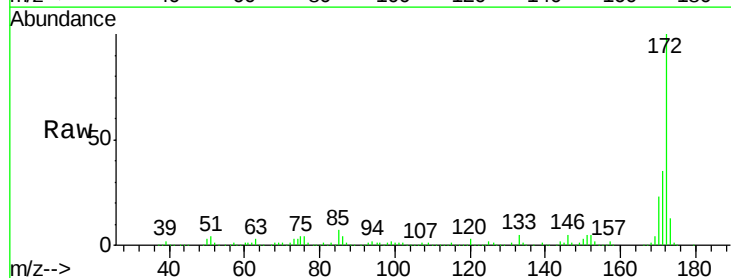
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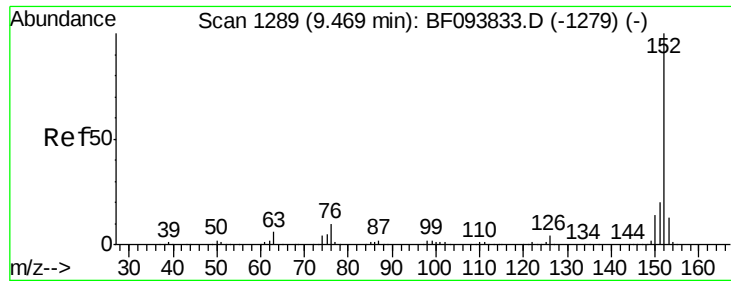
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#44
 2-Fluorobiphenyl
 Concen: 36.65 ng
 RT: 8.72 min Scan# 1162
 Delta R.T. -0.01 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	23.4	19.8	29.8





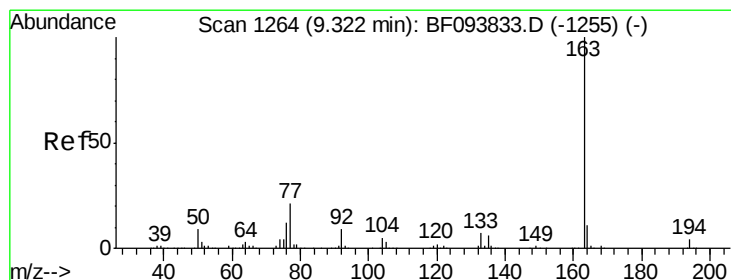
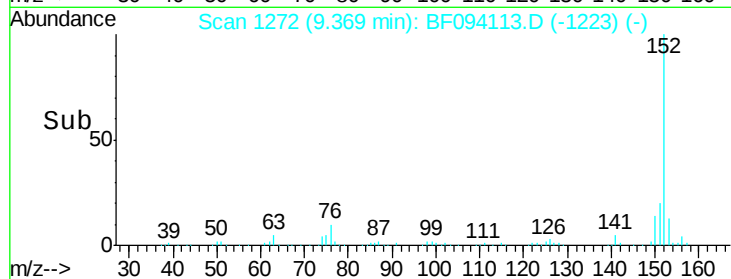
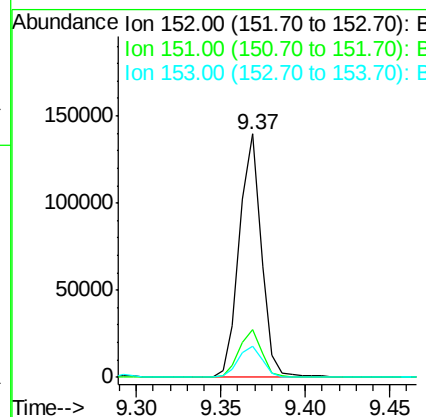
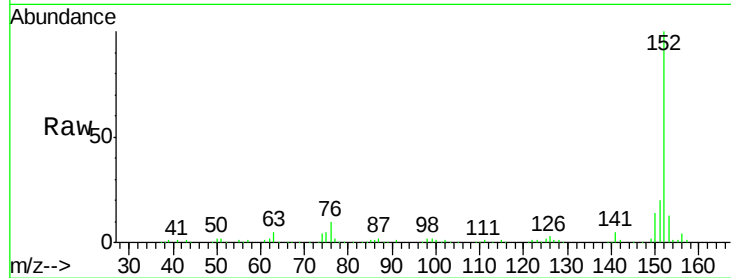
#48
Acenaphthylene
Concen: 3.96 ng
RT: 9.37 min Scan# 1272
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

Tot Ion	Ratio	Resp Lower	Upper
152	100		
151	19.5	16.8	25.2
153	13.0	10.8	16.2

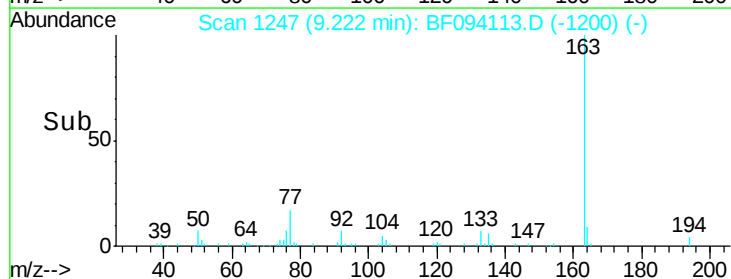
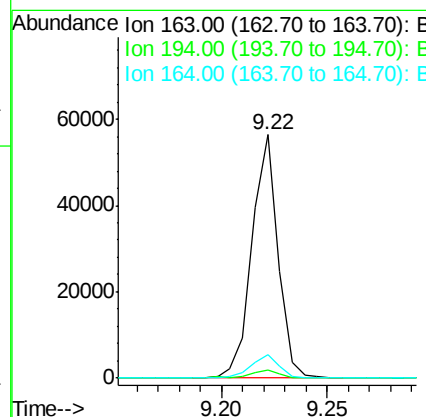
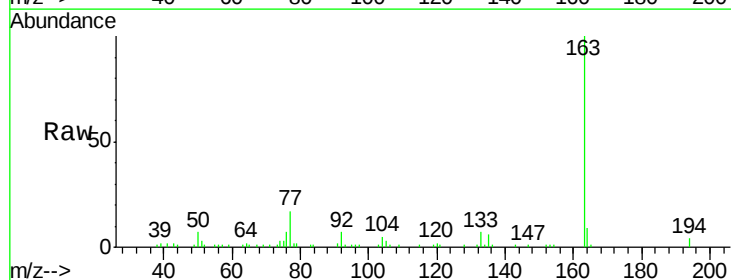
Manual Integrations
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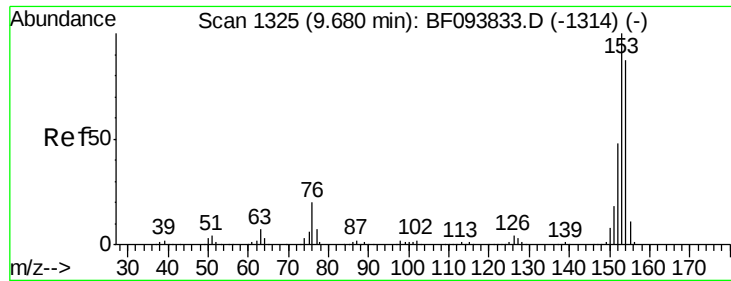
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#49
Dimethylphthalate
Concen: 2.23 ng
RT: 9.22 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	3.6	2.6	4.0
164	9.5	8.4	12.6





#51

Acenaphthene

Concen: 4.11 ng

RT: 9.58 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Instrument :

BNA_F

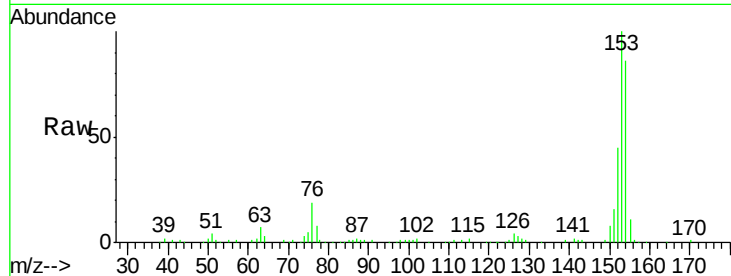
ClientSampleId :

E2-Q-P-12-13-BASE

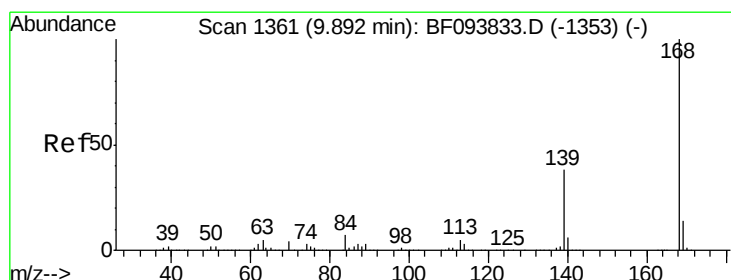
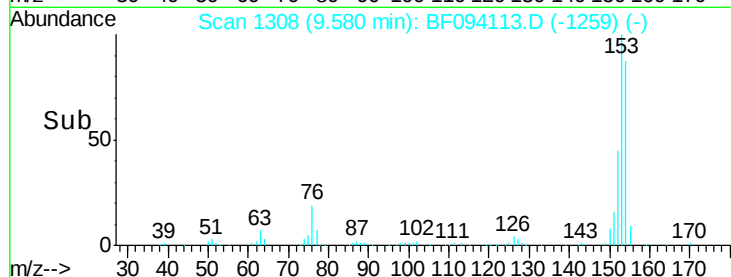
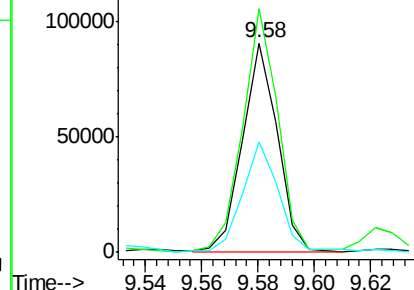
Tot Ion:	154	Resp:	77019
Ion Ratio	Lower	Upper	
154	100		
153	116.1	90.5	135.7
152	52.5	43.6	65.4

Manual Integrations
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mohammad
4/3/2017 4:00:25 PM



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



#54

Dibenzofuran

Concen: 3.97 ng

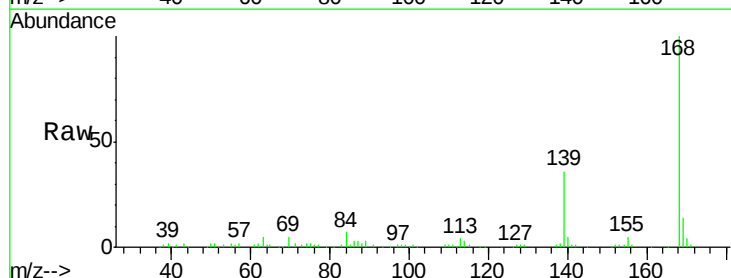
RT: 9.79 min Scan# 1344

Delta R.T. -0.01 min

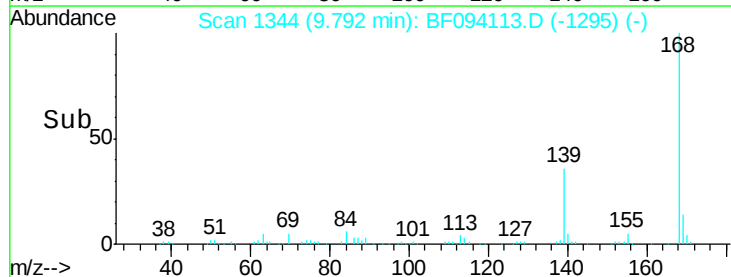
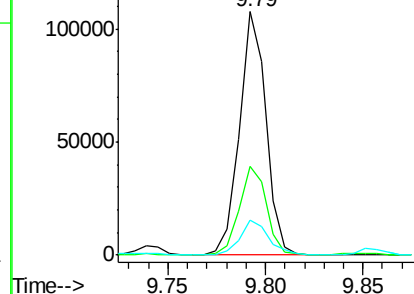
Lab File: BF094113.D

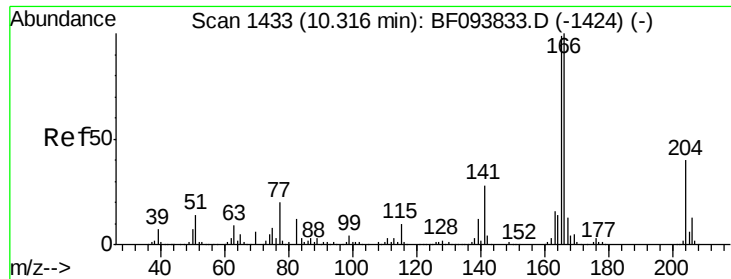
Acq: 1 Apr 2017 1:22

Tgt Ion:	168	Resp:	101271
Ion Ratio	Lower	Upper	
168	100		
139	36.4	30.6	45.8
169	14.4	10.8	16.2



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





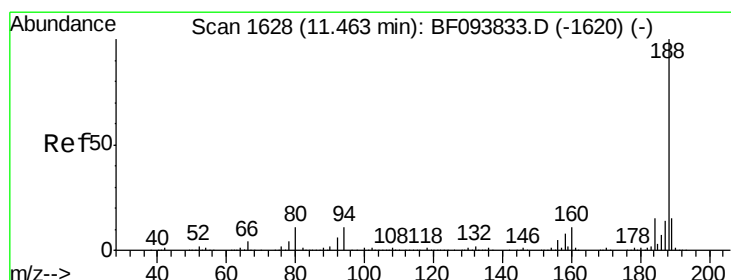
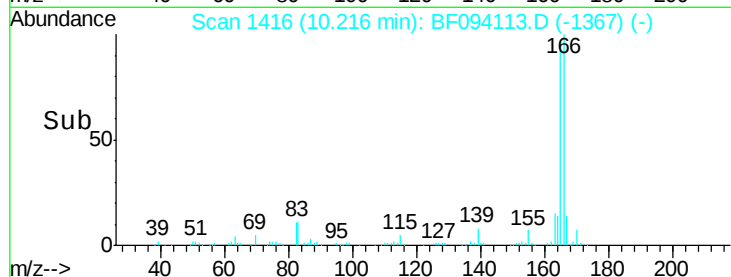
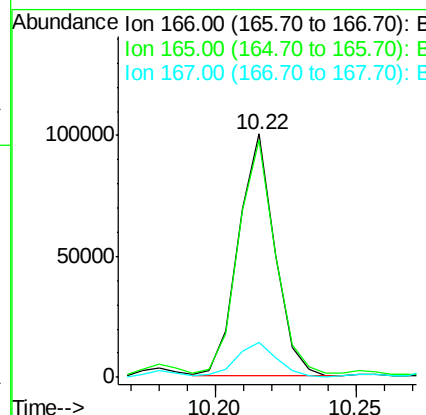
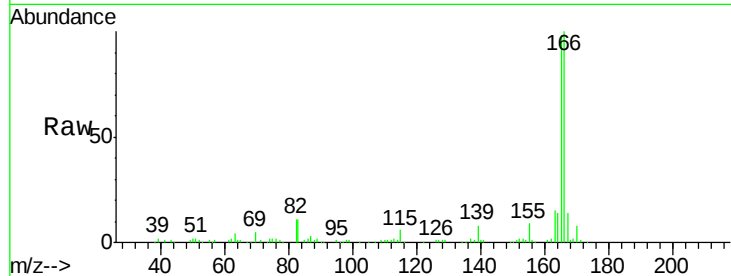
#57
Fluorene
 Concen: 4.24 ng
 RT: 10.22 min Scan# 1416
 Delta R.T. -0.01 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.8	118.2
167	14.4	10.6	16.0

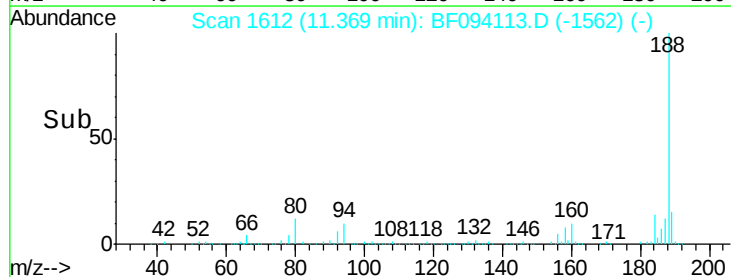
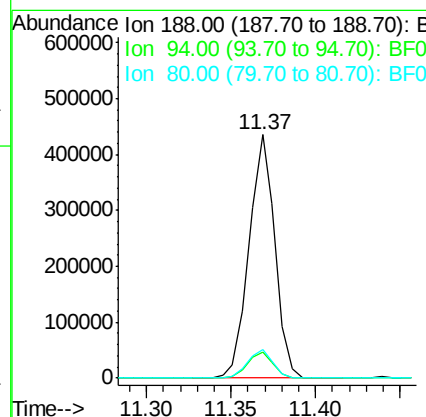
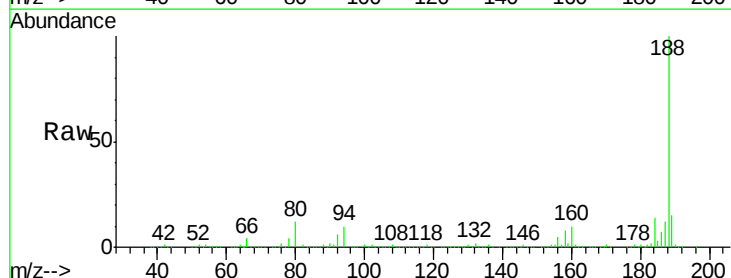
Manual Integrations
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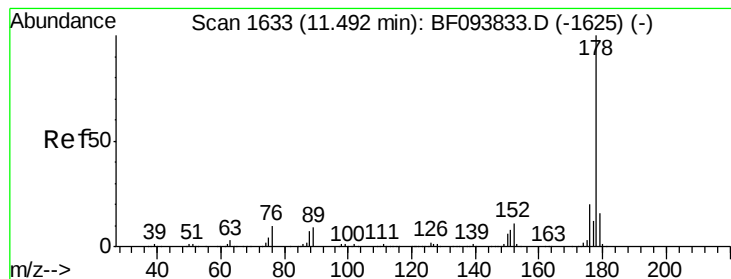
mohammad
 4/3/2017 4:00:25 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	9.4	14.2
80	11.6	10.2	15.2





#70

Phenanthrene

Concen: 49.84 ng

RT: 11.40 min Scan# 1618

Delta R.T. -0.00 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Instrument :

BNA_F

ClientSampleId :

E2-Q-P-12-13-BASE

Tot Ion:178 Resp: 1286934

Ion Ratio Lower Upper

178 100

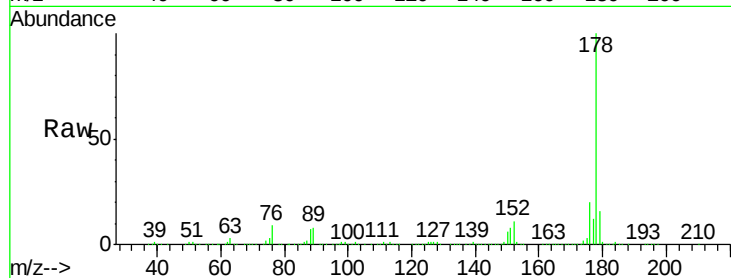
176 19.7 16.2 24.4

179 15.7 12.6 19.0

Manual Integrations
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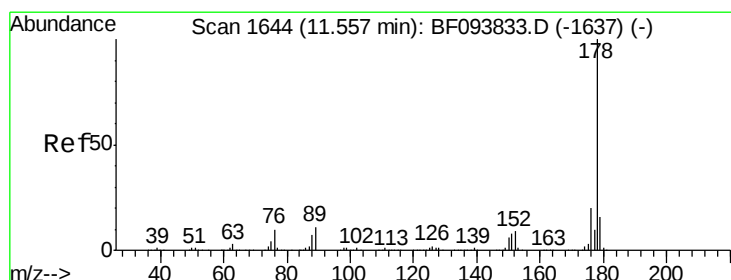
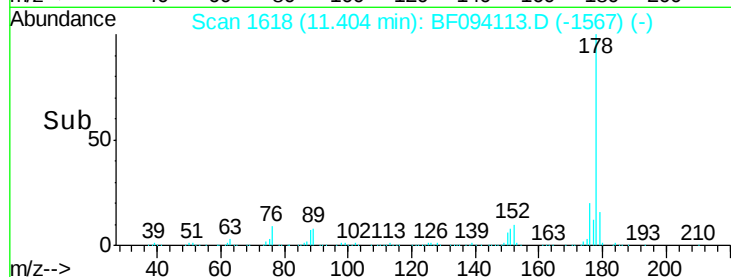
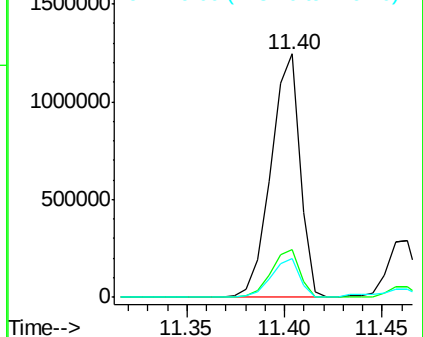
4/3/2017 4:00:25 PM



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



#71

Anthracene

Concen: 11.05 ng

RT: 11.46 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Tgt Ion:178 Resp: 293855

Ion Ratio Lower Upper

178 100

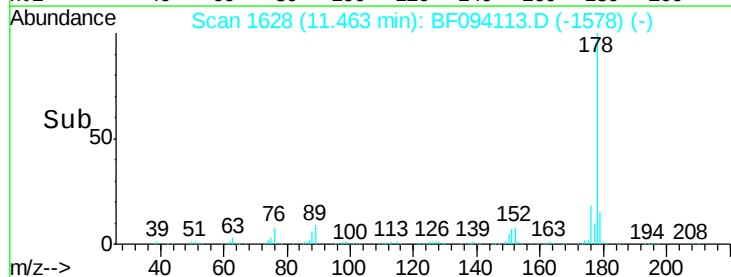
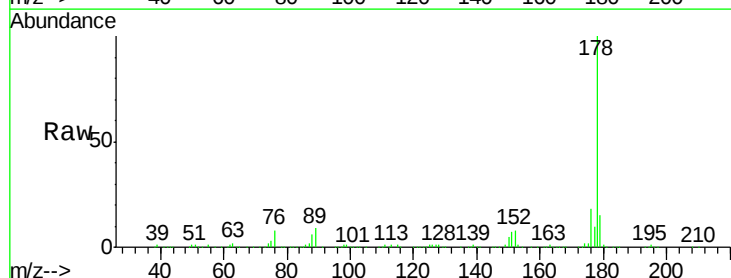
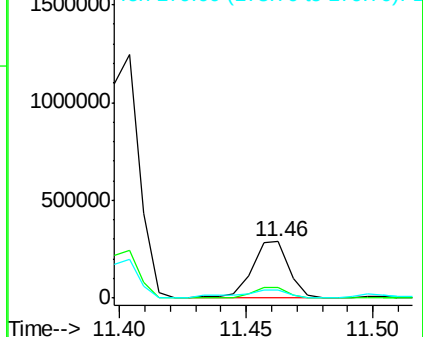
176 18.5 15.8 23.8

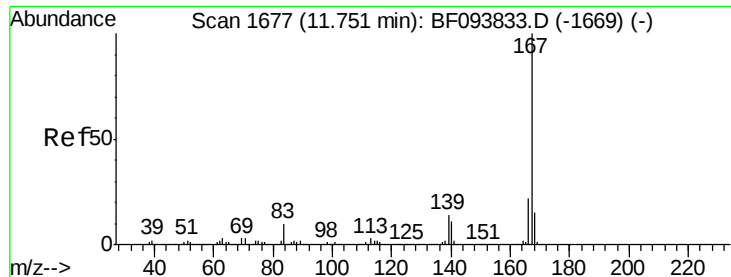
179 14.8 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





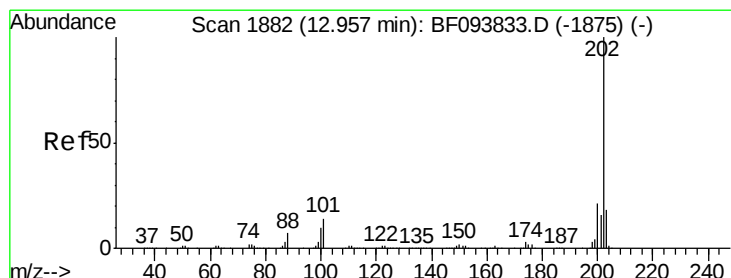
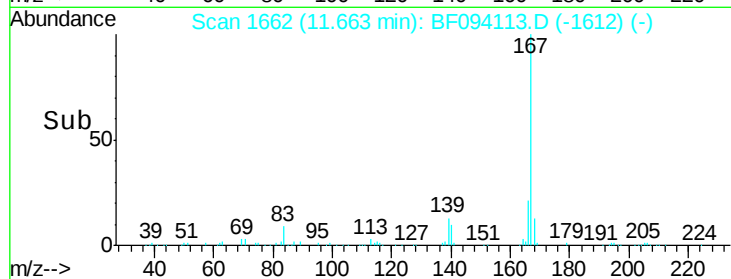
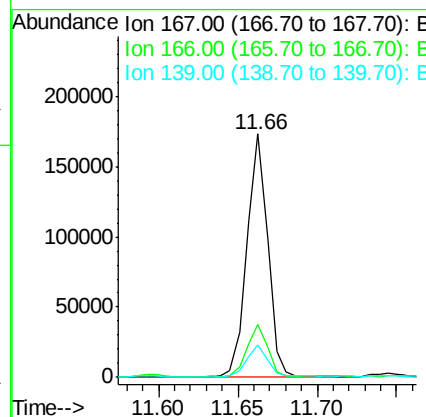
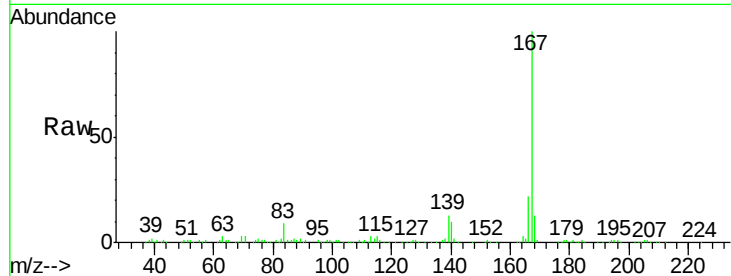
#72
 Carbazole
 Concen: 5.81 ng
 RT: 11.66 min Scan# 1662
 Delta R.T. -0.01 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.1	27.1
139	13.3	11.7	17.5

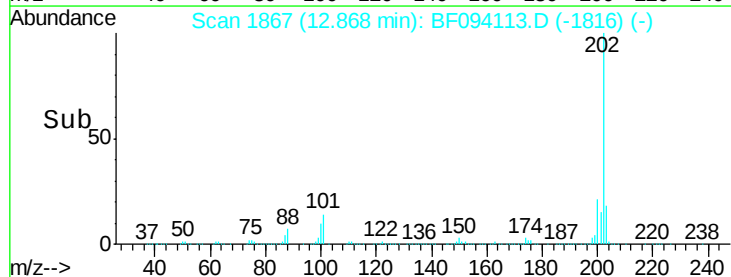
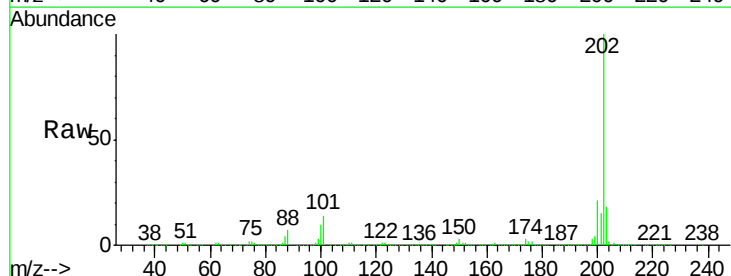
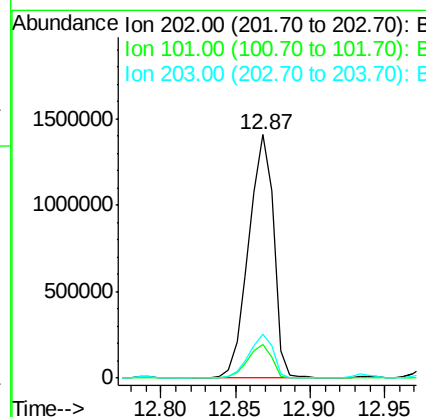
Manual Integrations
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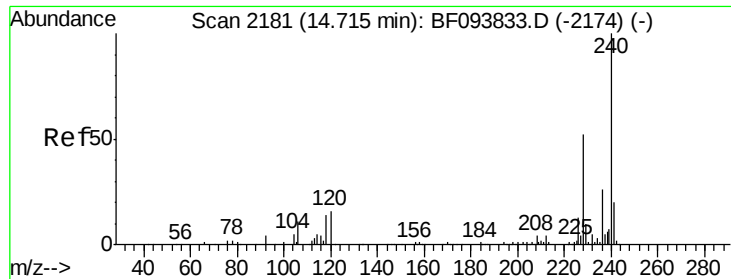
mohammad
 4/3/2017 4:00:25 PM



#74
 Fluoranthene
 Concen: 61.44 ng
 RT: 12.87 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	33.2
203	18.2	0.0	38.1





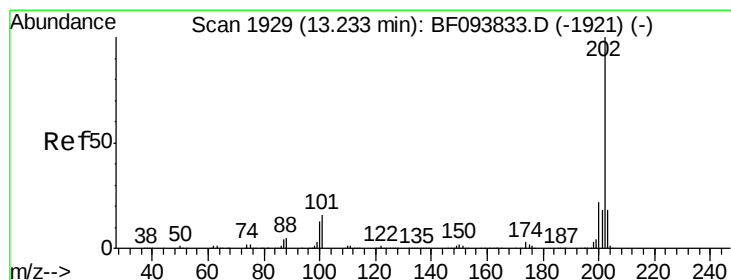
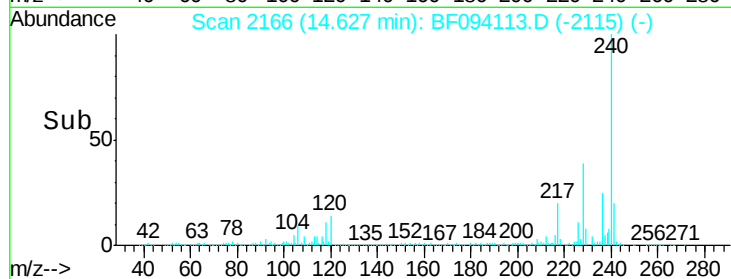
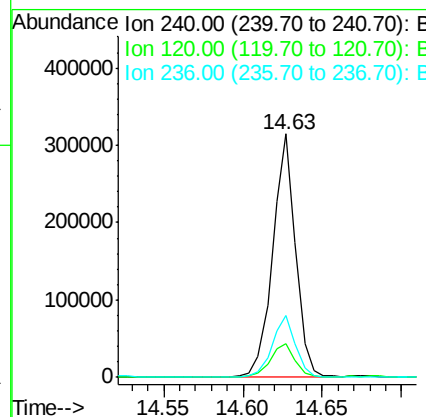
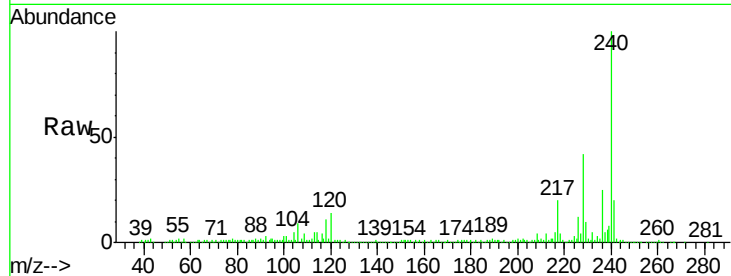
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.63 min Scan# 2166
Delta R.T. -0.00 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.0	5.8	8.8#
236	25.3	20.5	30.7

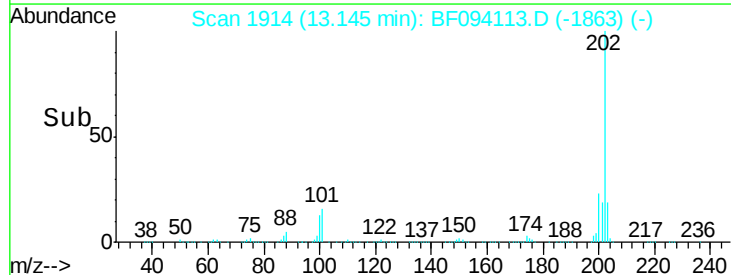
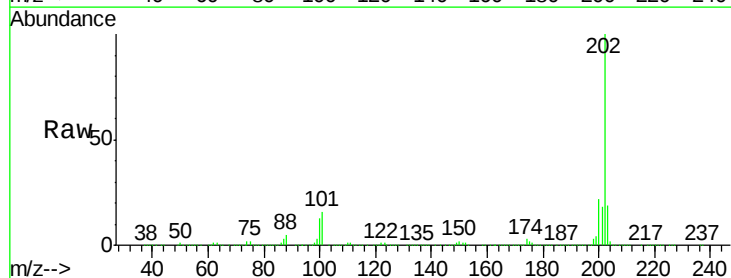
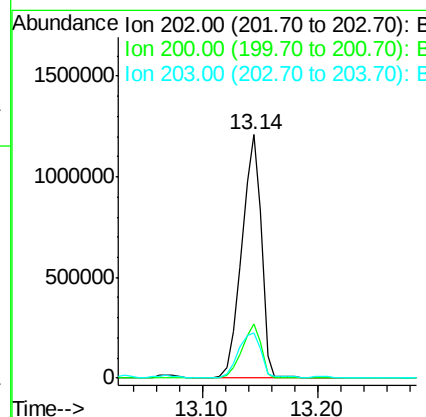
Manual Integrations
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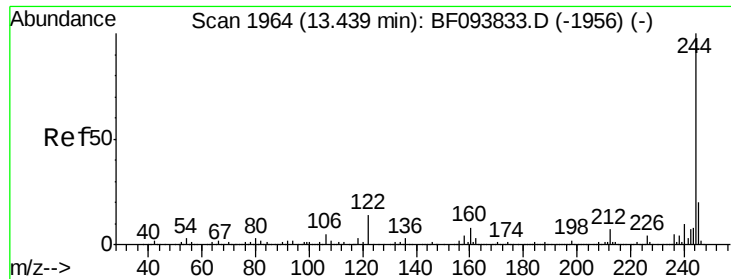
mohammad
4/3/2017 4:00:25 PM



#77
Pyrene
Concen: 61.41 ng
RT: 13.14 min Scan# 1914
Delta R.T. -0.00 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.6	26.4
203	18.6	14.4	21.6





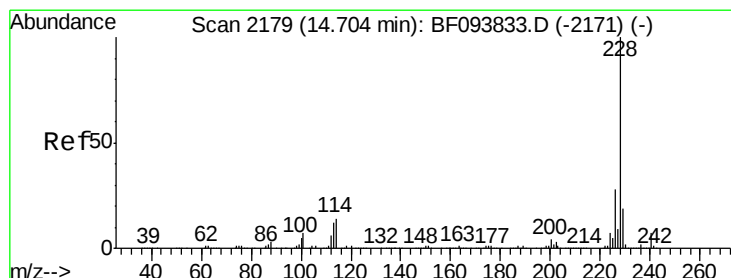
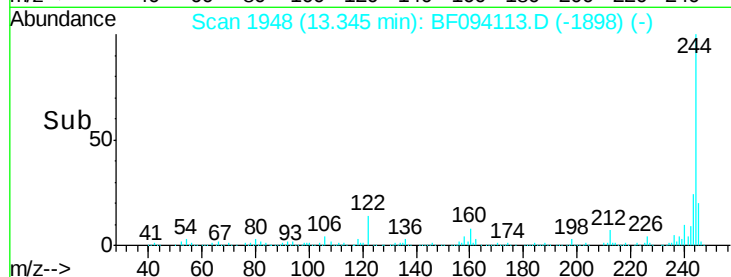
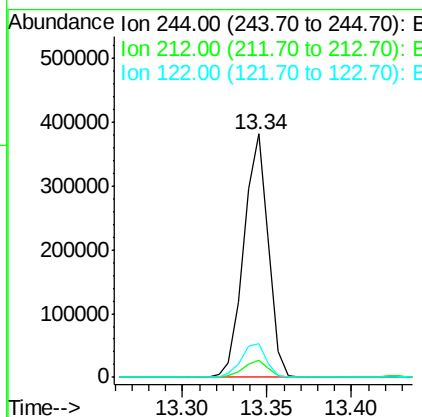
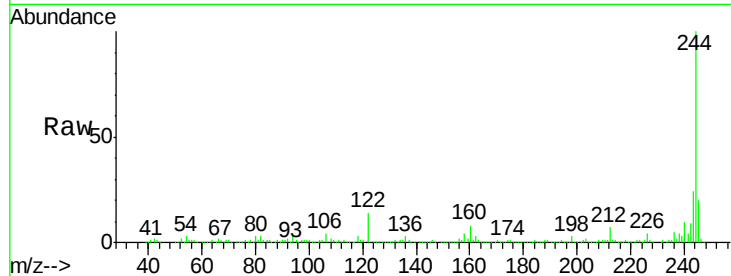
#78
 Terphenyl-d14
 Concen: 27.19 ng
 RT: 13.34 min Scan# 1948
 Delta R.T. -0.01 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	13.8	10.3	15.5

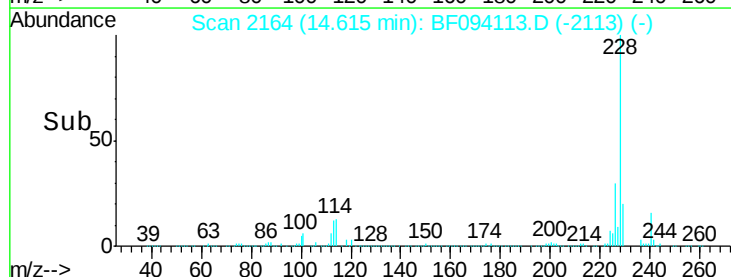
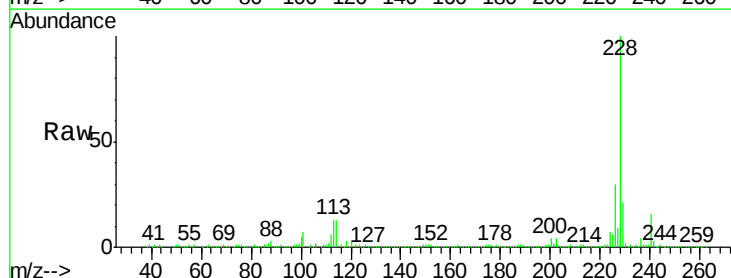
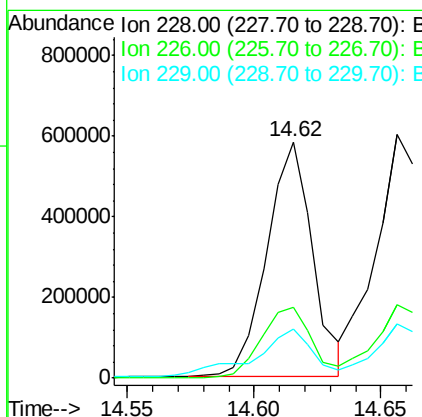
Manual Integrations
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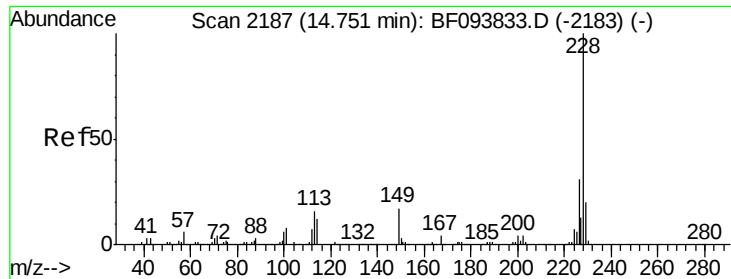
mohammad
 4/3/2017 4:00:25 PM



#80
 Benzo(a)anthracene
 Concen: 39.79 ng
 RT: 14.62 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: BF094113.D
 Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	33.8
229	20.5	16.3	24.5





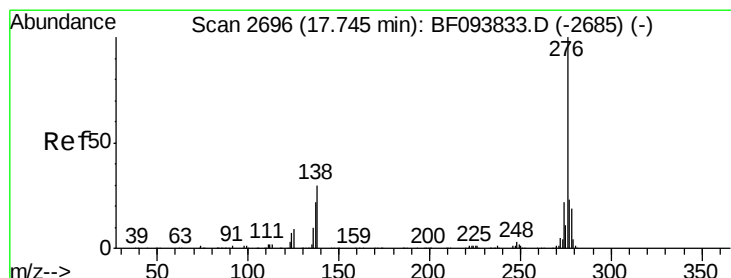
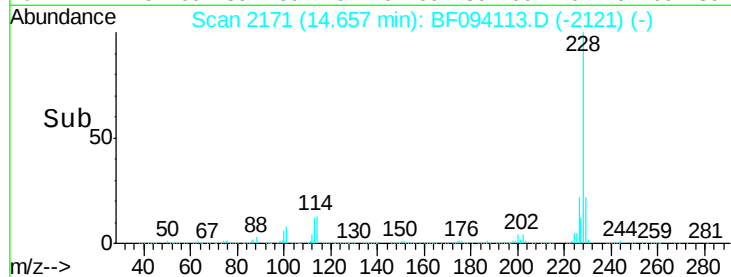
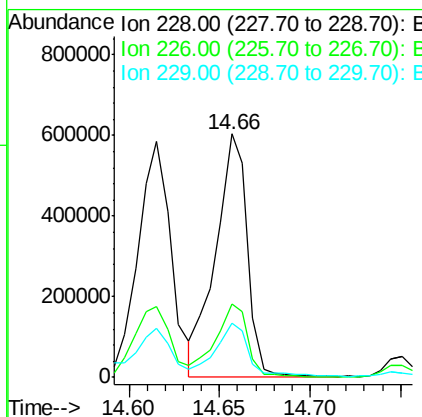
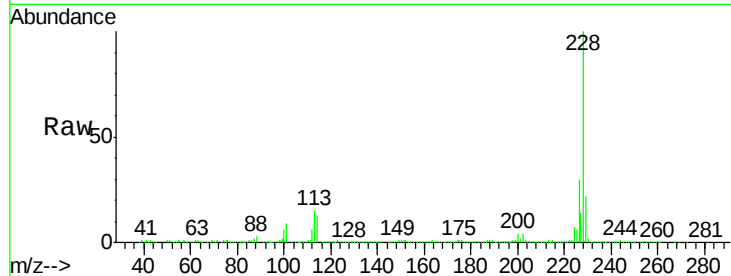
#82
Chrysene
Concen: 42.31 ng
RT: 14.66 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	30.2	24.9	37.3		
229	22.4	15.8	23.6		

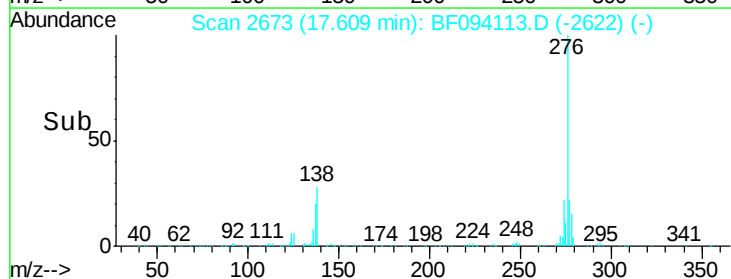
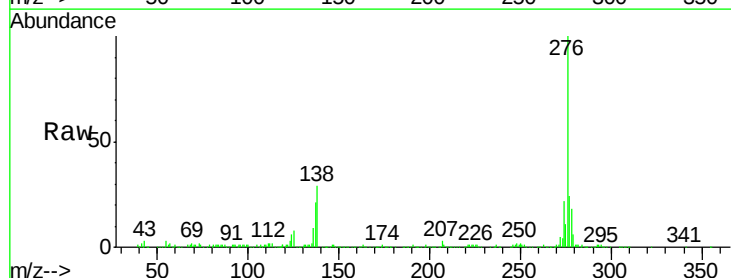
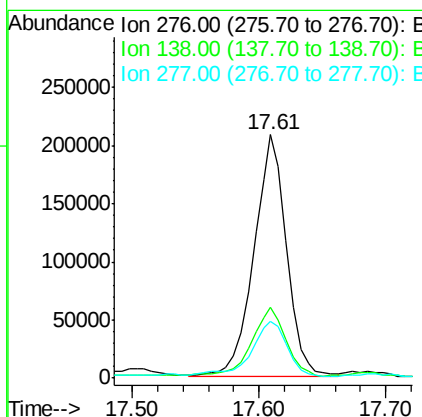
Manual Integrations
APPROVED

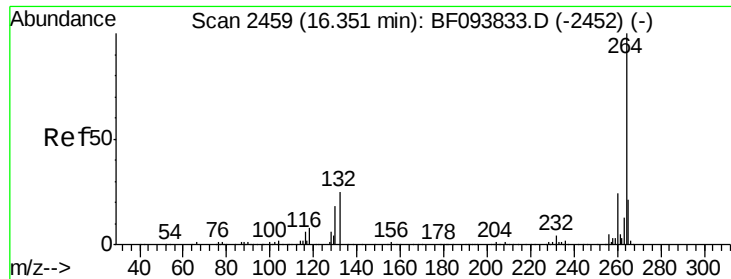
mohammad
4/3/2017 4:00:25 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 25.08 ng
RT: 17.61 min Scan# 2673
Delta R.T. -0.00 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
138	29.0	27.8	41.6		
277	25.0	20.2	30.4		





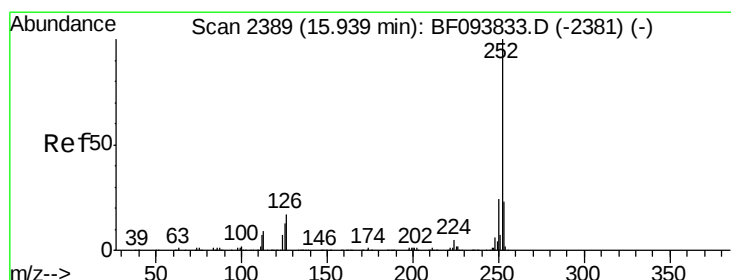
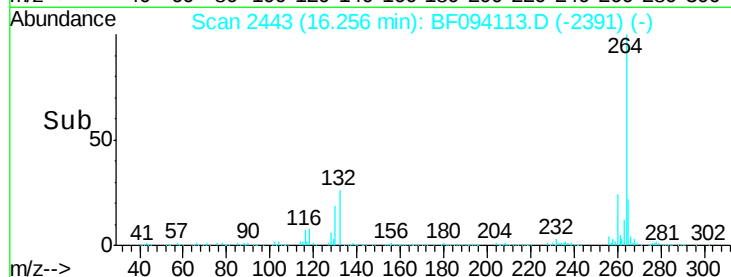
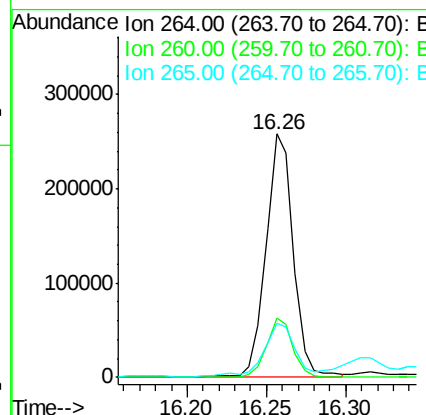
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.26 min Scan# 2443
Delta R.T. 0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.4	17.2	25.8

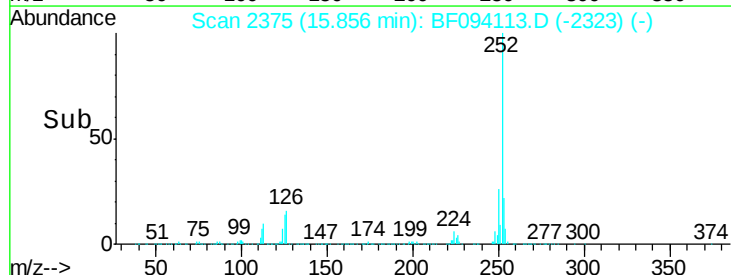
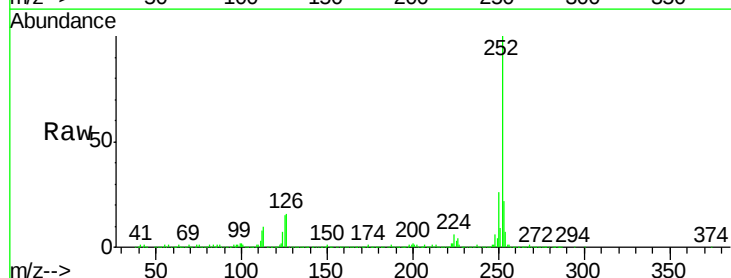
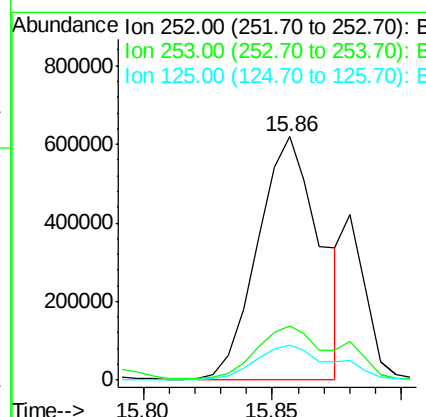
Manual Integrations
APPROVED

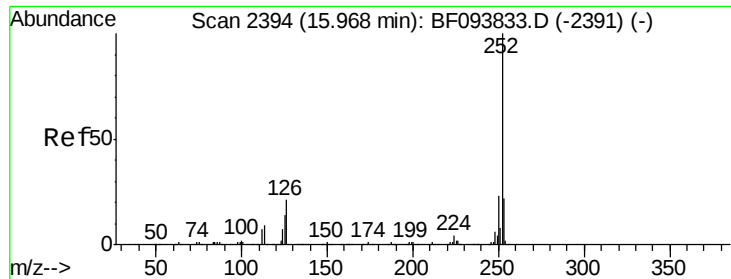
mohammad
4/3/2017 4:00:25 PM



#87
Benzo(b)fluoranthene
Concen: 55.11 ng m
RT: 15.86 min Scan# 2375
Delta R.T. 0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	14.6	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 13.99 ng/mL

RT: 15.88 min Scan# 2379

Delta R.T. -0.00 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Instrument :

BNA_F

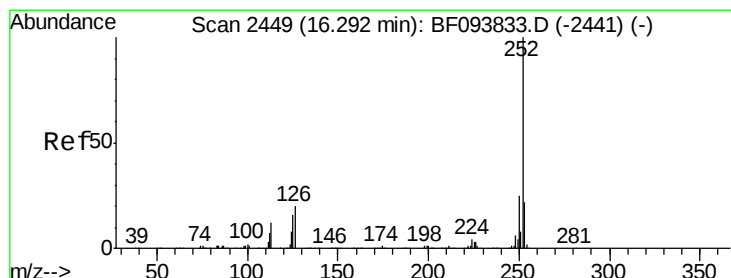
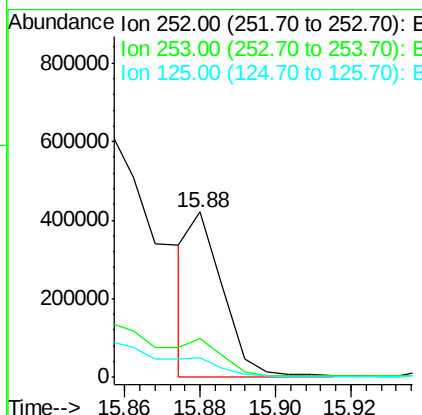
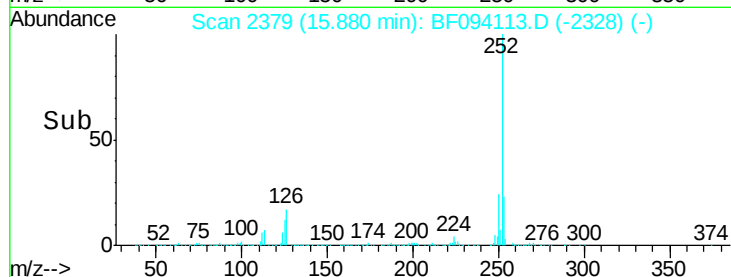
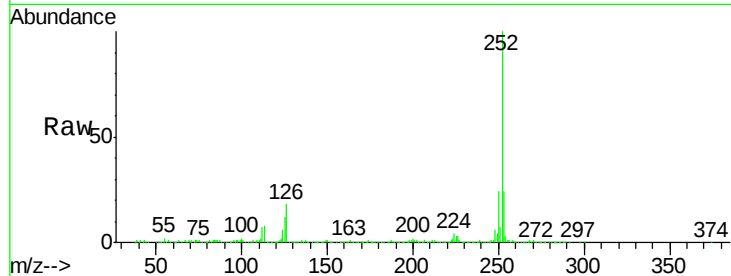
ClientSampleId :

E2-Q-P-12-13-BASE

Tot Ion:	252	Resp:	260540
Ion Ratio	Lower	Upper	
252	100		
253	23.7	18.4	27.6
125	12.2	13.1	19.7

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 36.12 ng/mL

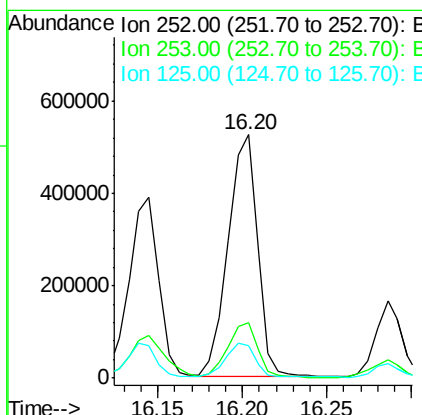
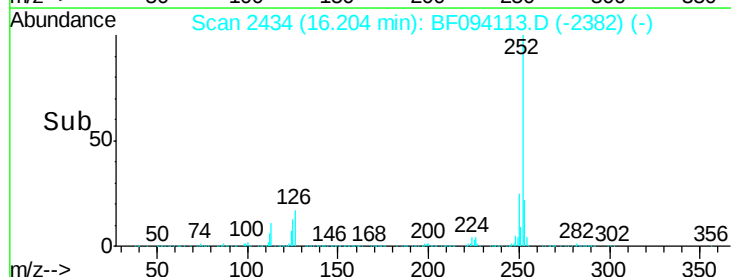
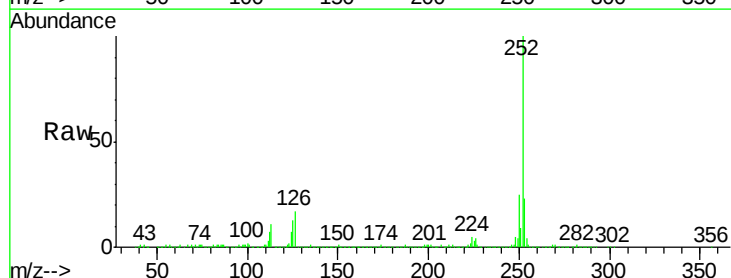
RT: 16.20 min Scan# 2434

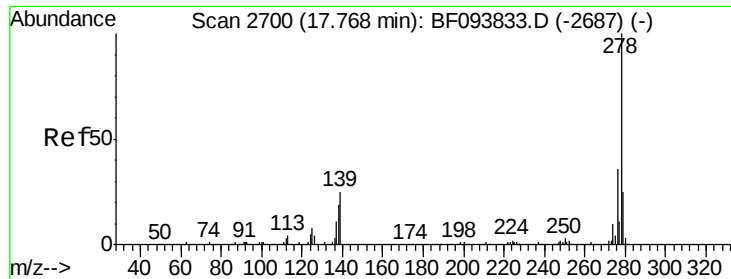
Delta R.T. 0.01 min

Lab File: BF094113.D

Acq: 1 Apr 2017 1:22

Tgt Ion:	252	Resp:	633094
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.5	26.3
125	13.5	11.0	16.4





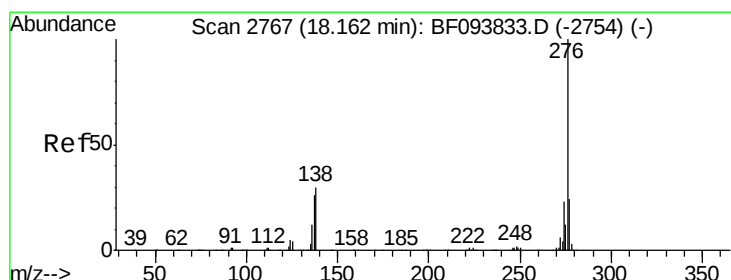
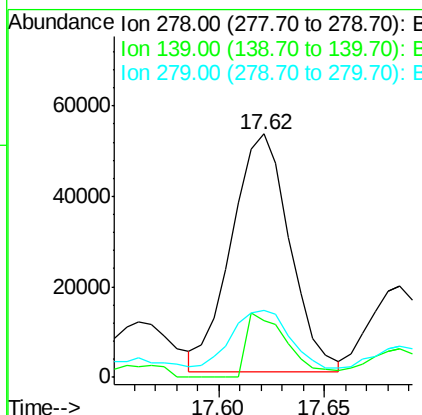
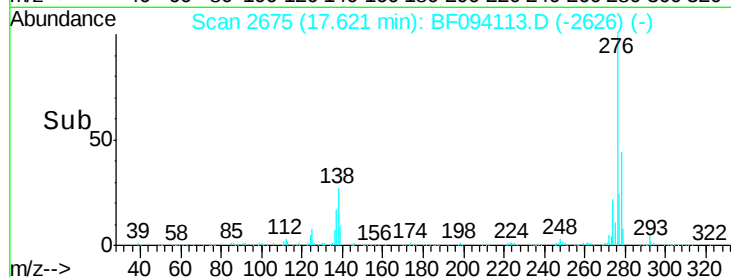
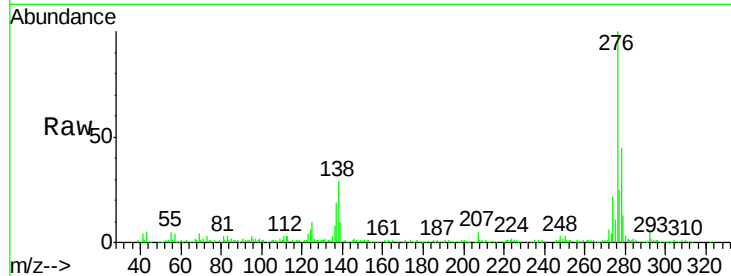
#90
Dibenzo(a,h)anthracene
Concen: 6.80 ng
RT: 17.62 min Scan# 2675
Delta R.T. -0.01 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Instrument :
BNA_F
ClientSampleId :
E2-Q-P-12-13-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.1	16.6	24.8
279	27.6	19.3	28.9

Manual Integrations
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mohammad
4/3/2017 4:00:25 PM



#91
Benzo(g,h,i)perylene
Concen: 21.52 ng
RT: 18.01 min Scan# 2741
Delta R.T. -0.00 min
Lab File: BF094113.D
Acq: 1 Apr 2017 1:22

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.6	28.0
138	29.4	25.4	38.0

