

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032817\
 Data File : BF094016.D
 Acq On : 29 Mar 2017 2:06
 Operator : SJ/MA
 Sample : I2414-02 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-BASE

Manual Integrations
 APPROVED

Quant Time: Mar 29 13:07:16 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.93	152	176195	20.00	ng	-0.02
21) Naphthalene-d8	7.43	136	715201	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	312836	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	507029	20.00	ng	-0.03
75) Chrysene-d12	14.64	240	329911	20.00	ng	-0.04
86) Perylene-d12	16.28	264	282414	20.00	ng	-0.03

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System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.46	112	598976	57.42	ng	-0.02
7) Phenol-d6	5.52	99	782528	60.64	ng	-0.03
23) Nitrobenzene-d5	6.57	82	506486	40.41	ng	-0.03
41) 2,4,6-Tribromophenol	10.54	330	140106	56.68	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	905392	44.14	ng	-0.03
78) Terphenyl-d14	13.37	244	597947	40.63	ng	-0.04

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Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.39	152	70779	2.16	ng	96
49) Dimethylphthalate	9.25	163	77418	3.48	ng	98
70) Phenanthrene	11.42	178	179824	6.38	ng	98
74) Fluoranthene	12.89	202	379847	13.15	ng	99
77) Pyrene	13.16	202	496094	20.72	ng	98
80) Benzo(a)anthracene	14.63	228	186883m	9.71	ng	
82) Chrysene	14.67	228	182287	10.21	ng	98
85) Indeno(1,2,3-cd)pyrene	17.63	276	173302	11.21	ng	95
87) Benzo(b)fluoranthene	15.87	252	291576m	16.84	ng	
88) Benzo(k)fluoranthene	15.89	252	92439m	5.46	ng	
89) Benzo(a)pyrene	16.22	252	234436	14.71	ng	96
90) Dibenzo(a,h)anthracene	17.65	278	31332m	2.32	ng	
91) Benzo(a,h,i)perylene	18.04	276	226537	16.65	ng	99

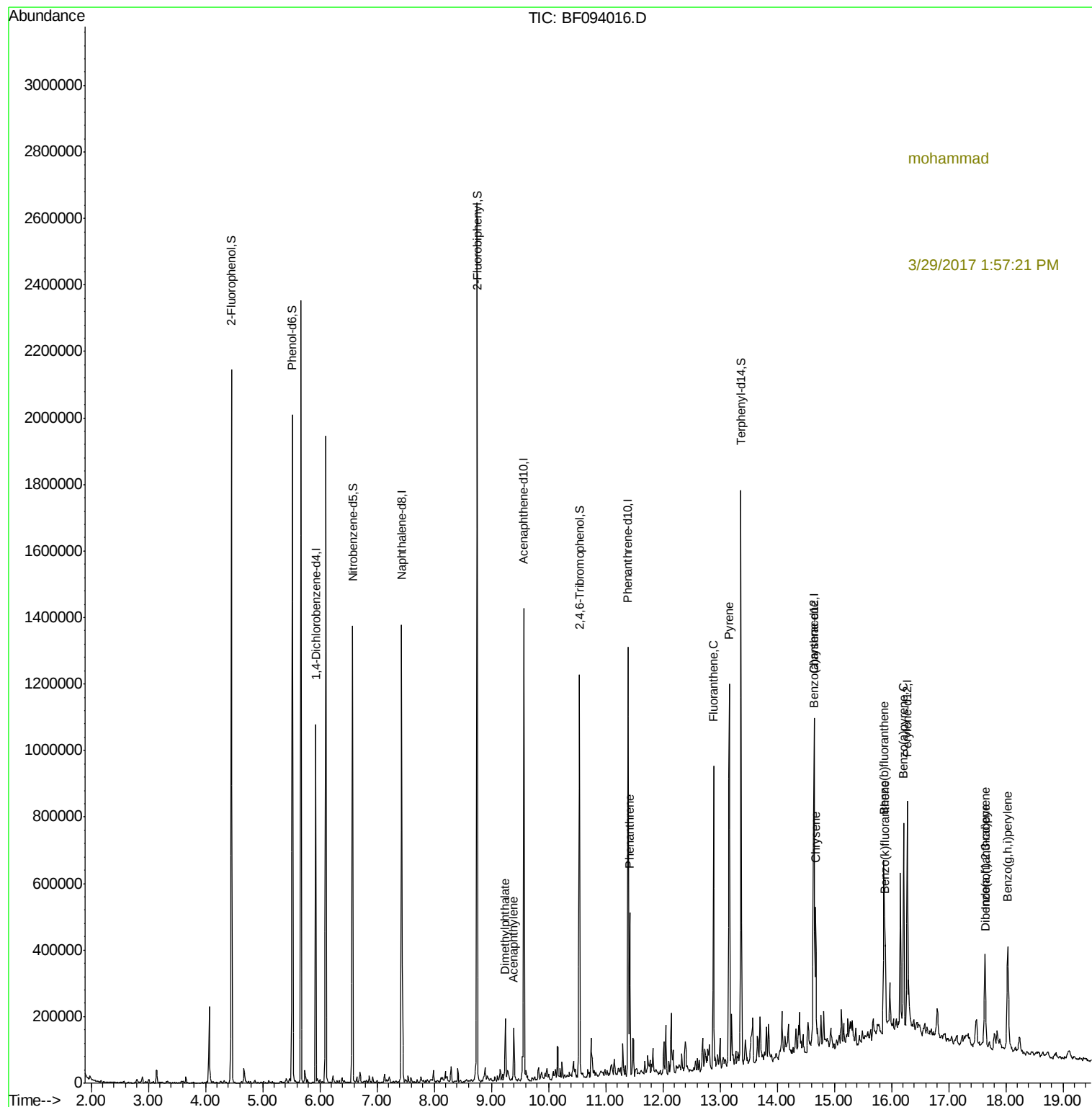
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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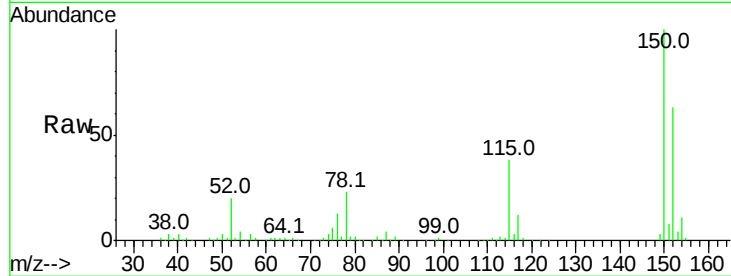
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.93 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

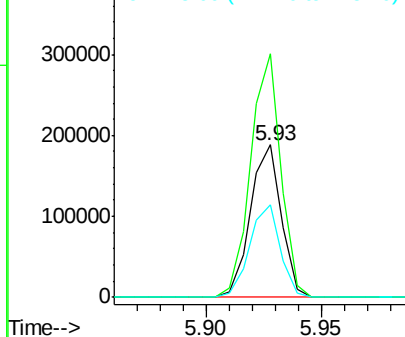
Instrument :
BNA_F
ClientSampleId :
E2-R13-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	126.2	189.2
115	60.9	52.2	78.2

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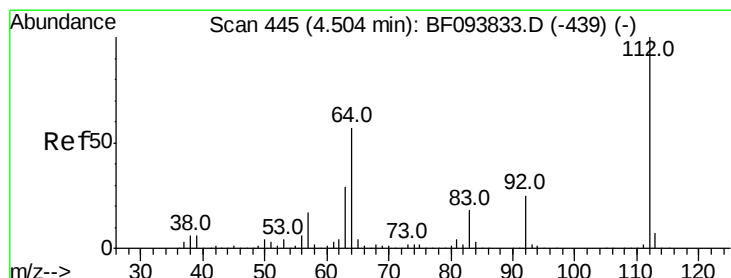
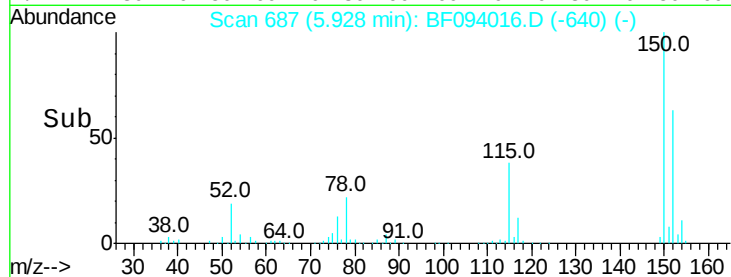


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



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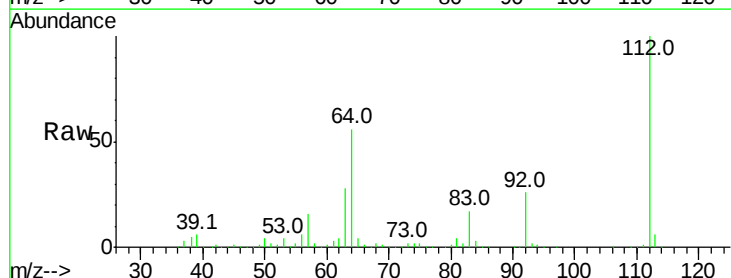
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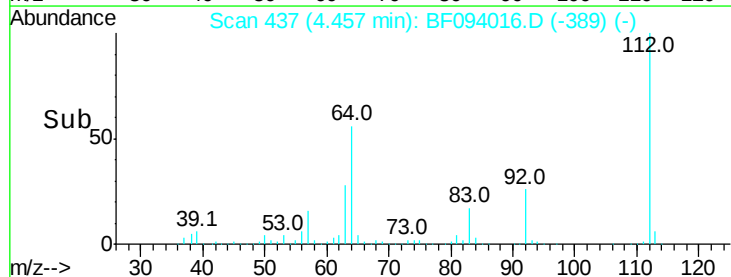
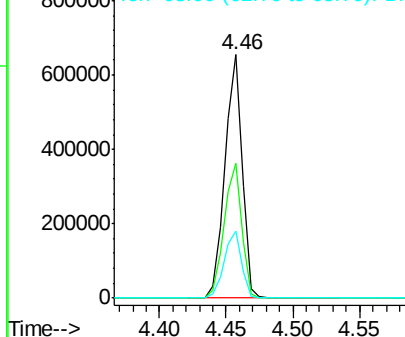
#5

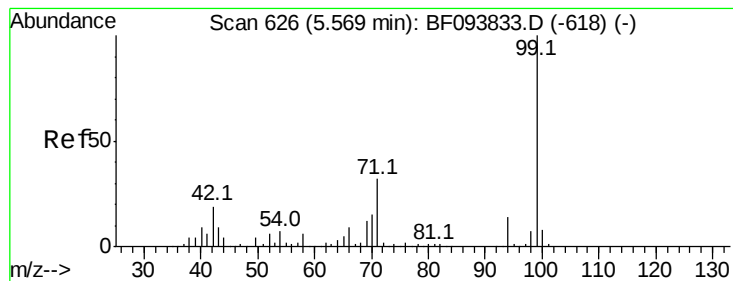
2-Fluorophenol
Concen: 57.42 ng
RT: 4.46 min Scan# 437
Delta R.T. -0.02 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	46.0	69.0
63	27.7	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: 60.64 ng

RT: 5.52 min Scan# 618

Delta R.T. -0.03 min

Lab File: BF094016.D

Acq: 29 Mar 2017 2:06

Instrument :

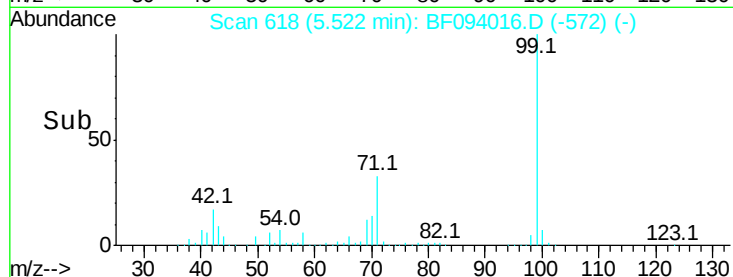
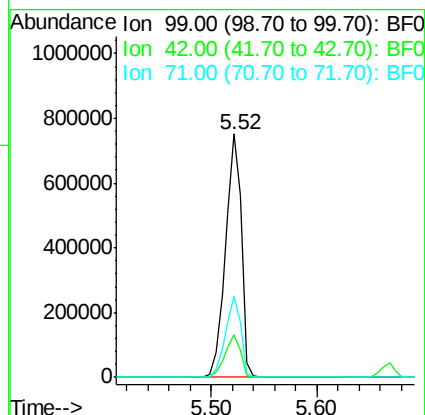
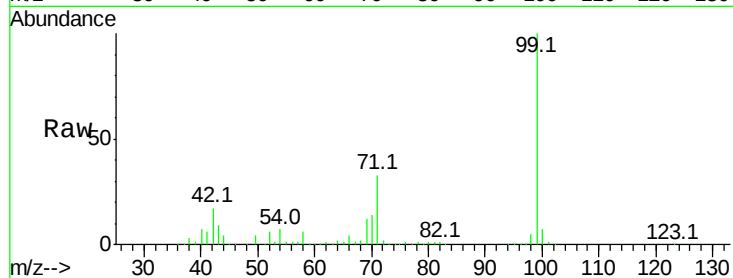
BNA_F

ClientSampleId :

E2-R13-BASE

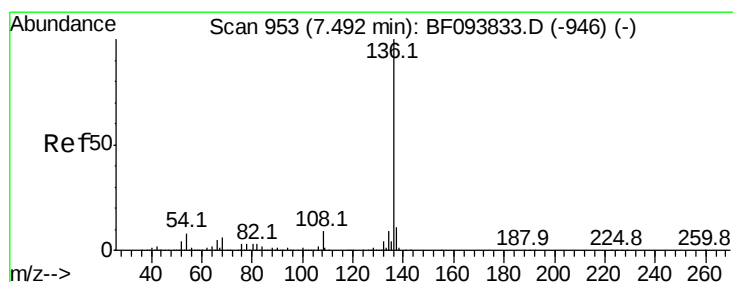
Tot Ion:	99	Resp:	782528
Ion Ratio	Lower	Upper	
99	100		
42	17.4	13.5	20.3
71	33.1	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

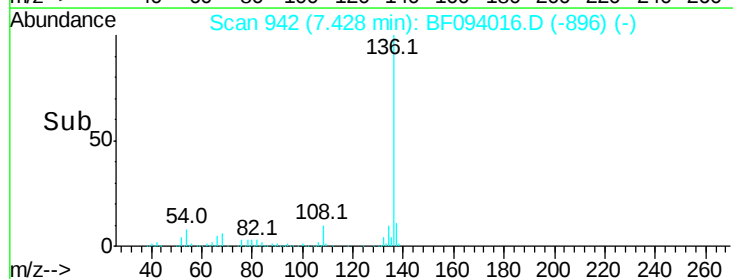
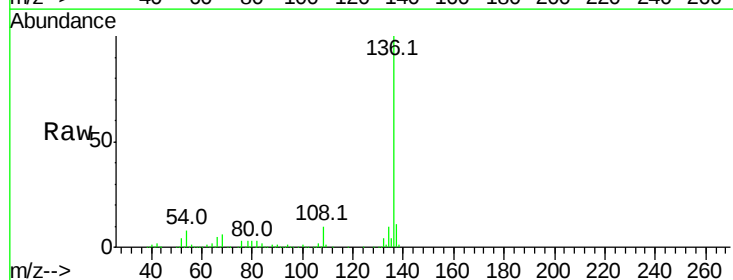
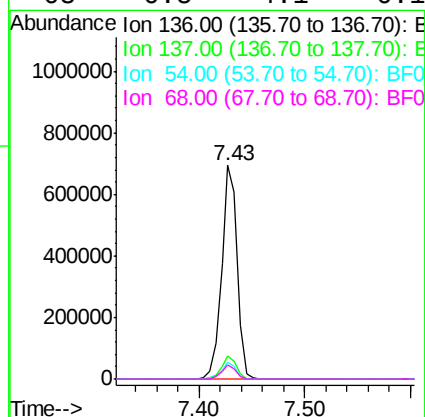
RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094016.D

Acq: 29 Mar 2017 2:06

Tgt Ion:	136	Resp:	715201
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	8.0	4.9	7.3#
68	6.5	4.1	6.1#



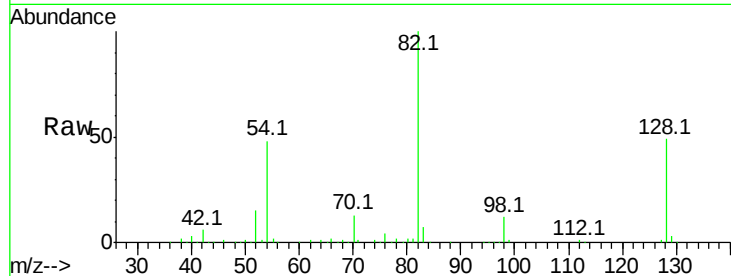


#23
Nitrobenzene-d5
Concen: 40.41 ng
RT: 6.57 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

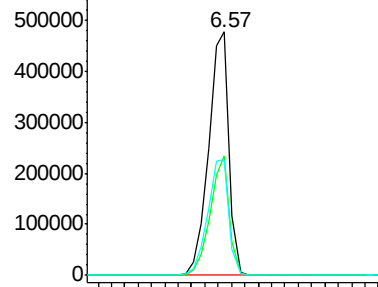
Instrument :
BNA_F
ClientSampleId :
E2-R13-BASE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	49.0	34.0	51.0	
54	47.7	42.2	63.2	

Manual Integrations
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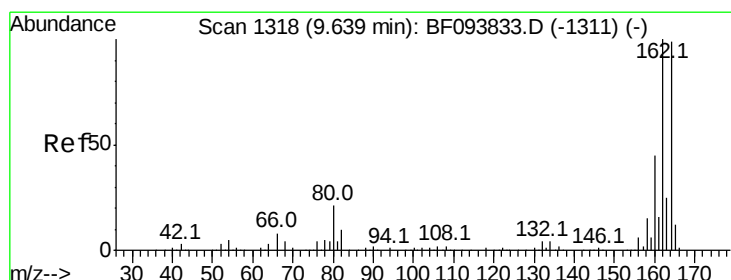
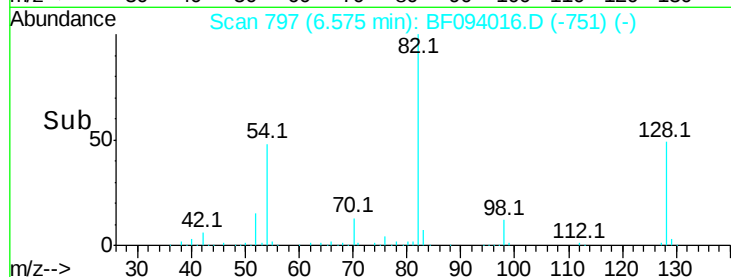


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



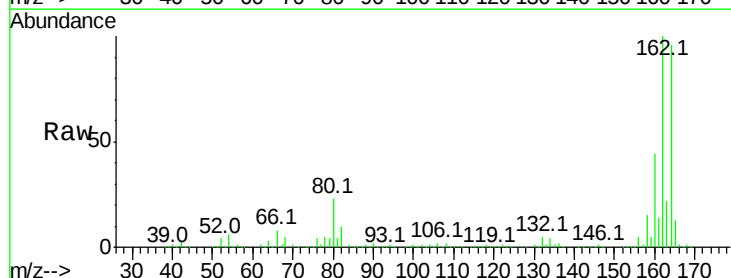
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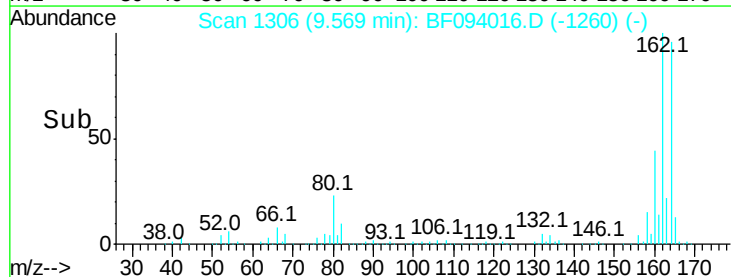
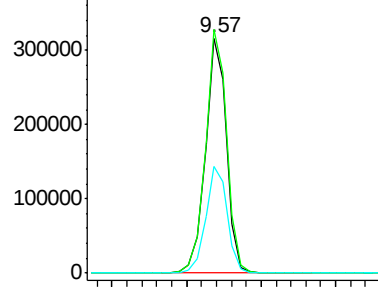


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 1306
Delta R.T. -0.03 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.7	82.6	123.8	
160	45.3	36.2	54.2	



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



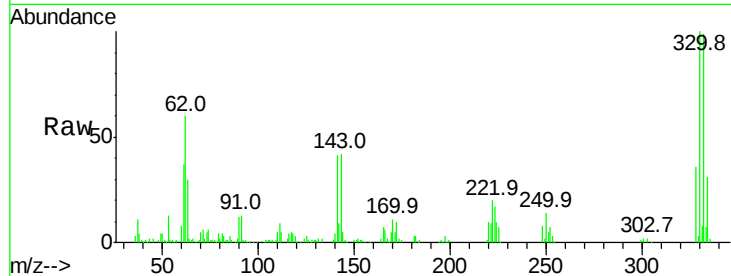


#41
 2,4,6-Tribromophenol
 Concen: 56.68 ng
 RT: 10.54 min Scan# 1471
 Delta R.T. -0.04 min
 Lab File: BF094016.D
 Acq: 29 Mar 2017 2:06

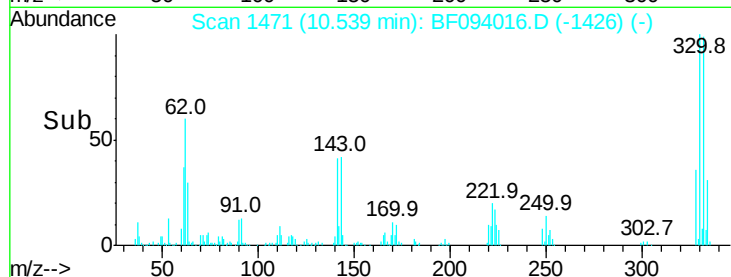
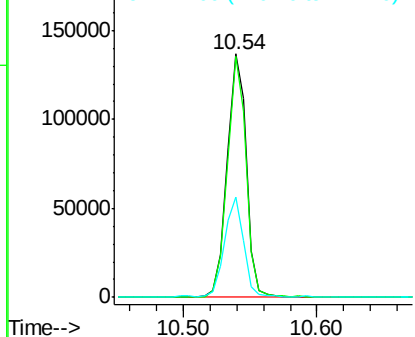
Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-BASE

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.9	76.6	115.0	
141	41.5	31.4	47.2	

Manual Integrations
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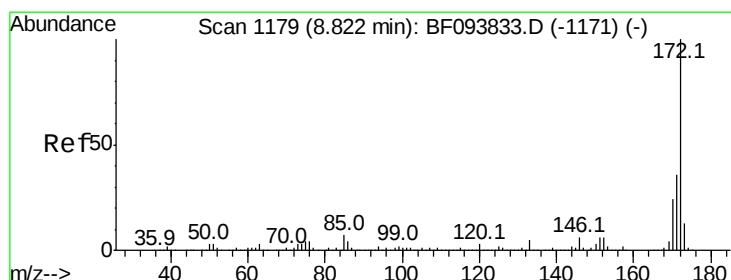


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



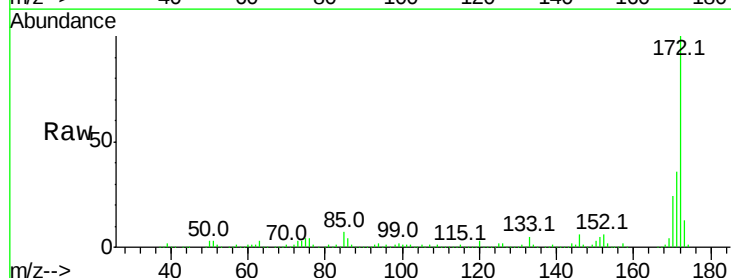
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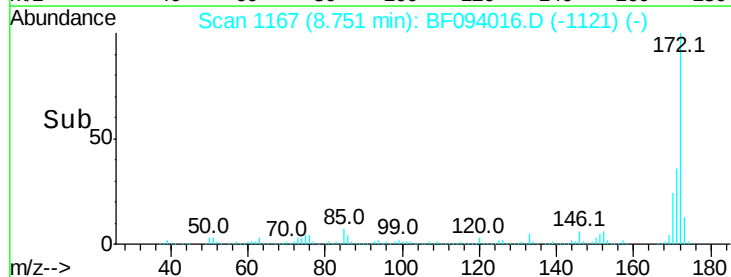
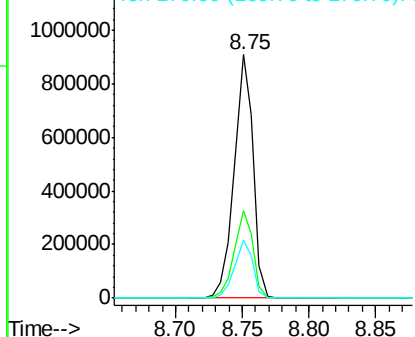


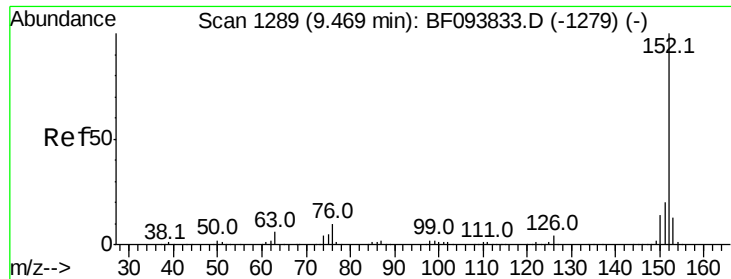
#44
 2-Fluorobiphenyl
 Concen: 44.14 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094016.D
 Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.1	29.6	44.4	
170	23.7	19.8	29.8	



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





#48

Acenaphthylene

Concen: 2.16 ng

RT: 9.39 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BF094016.D

Acq: 29 Mar 2017 2:06

Instrument :

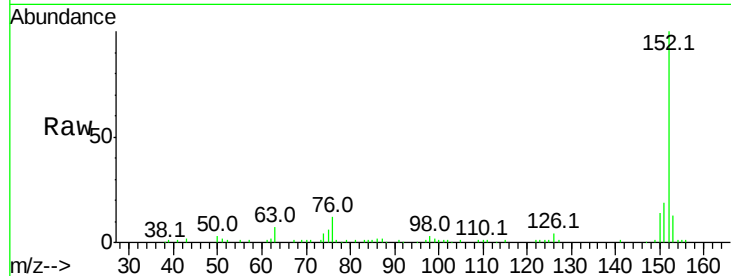
BNA_F

ClientSampleId :

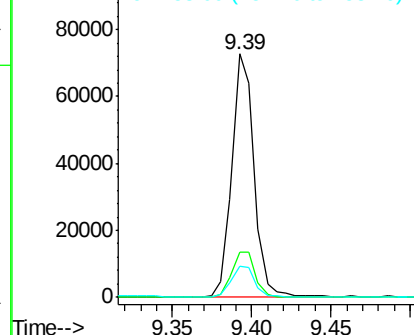
E2-R13-BASE

Tot Ion:	152	Resp:	70779
Ion Ratio	Lower	Upper	
152	100		
151	18.5	16.8	25.2
153	13.0	10.8	16.2

Manual Integrations
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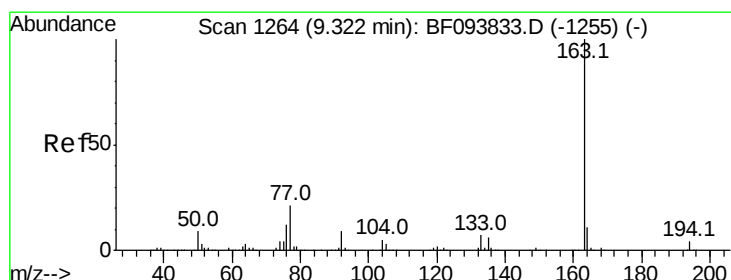
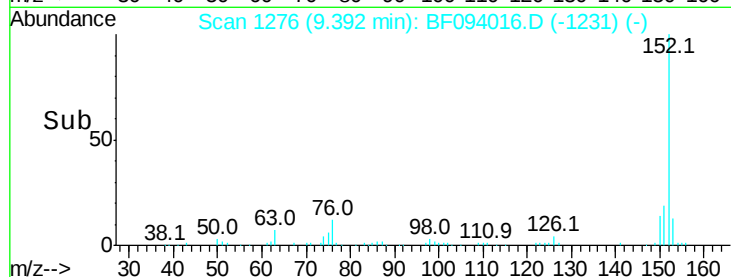


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



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#49

Dimethylphthalate

Concen: 3.48 ng

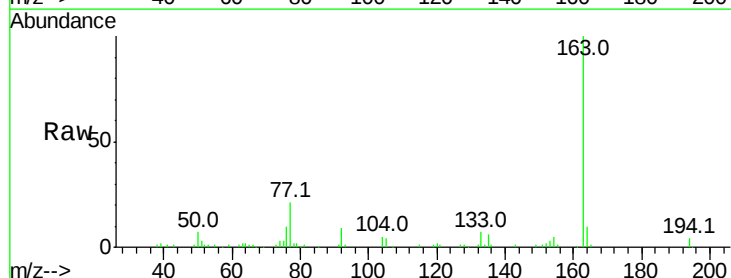
RT: 9.25 min Scan# 1251

Delta R.T. -0.04 min

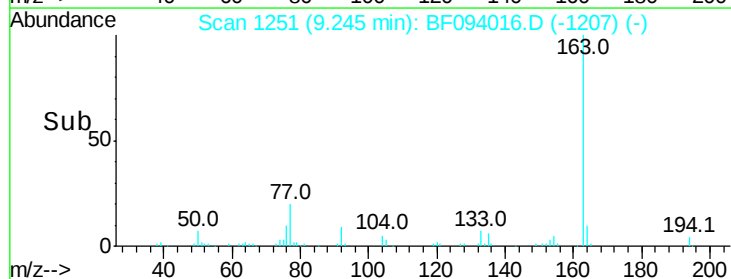
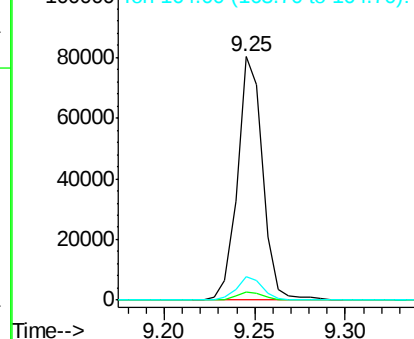
Lab File: BF094016.D

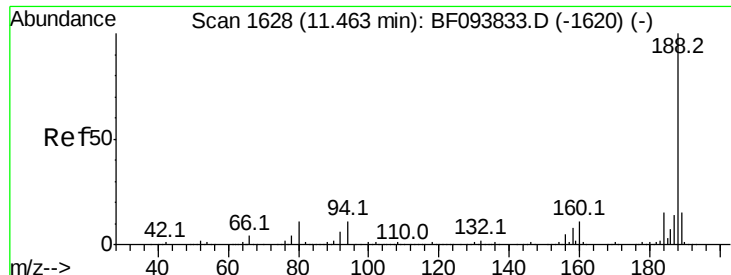
Acq: 29 Mar 2017 2:06

Tgt Ion:	163	Resp:	77418
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.6	4.0
164	9.8	8.4	12.6



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



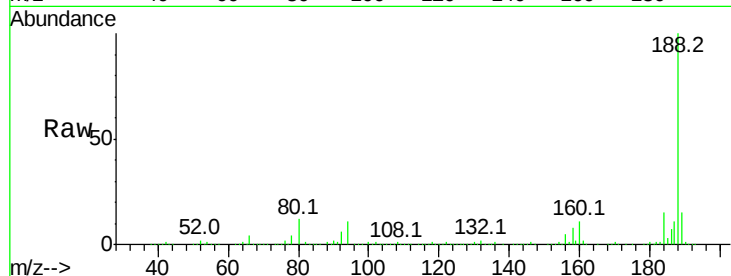


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.03 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Instrument :
BNA_F
ClientSampleId :
E2-R13-BASE

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.2		9.4	14.2
80	11.8		10.2	15.2

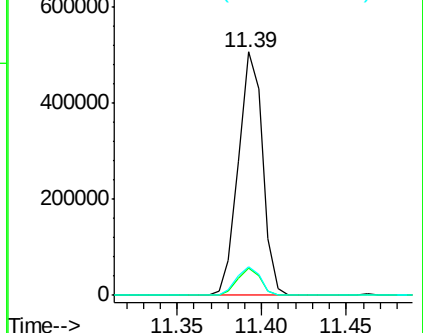
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Abundance Ion 188.00 (187.70 to 188.70): E

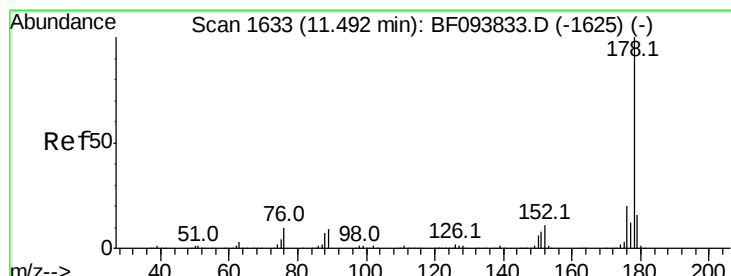
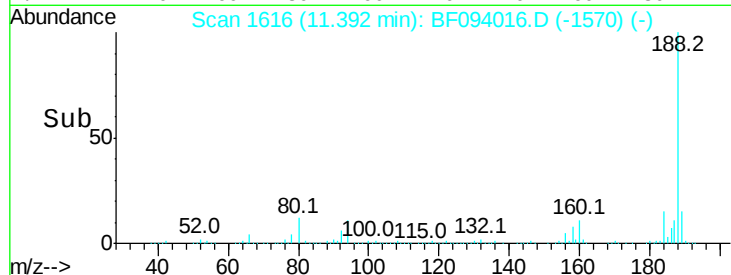
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



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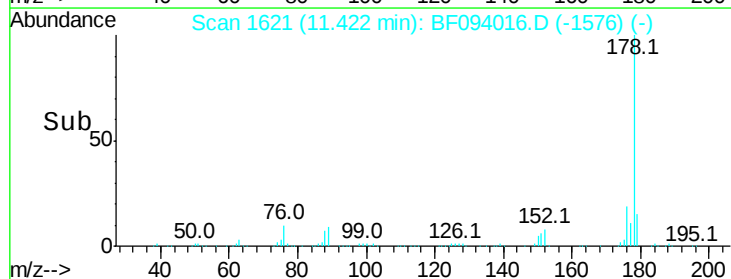
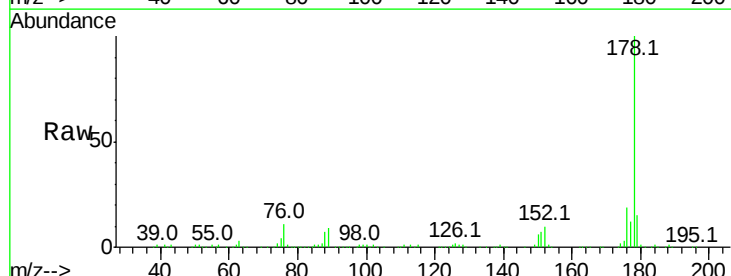
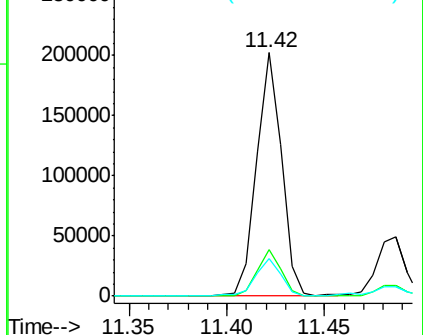
#70
Phenanthrene
Concen: 6.38 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

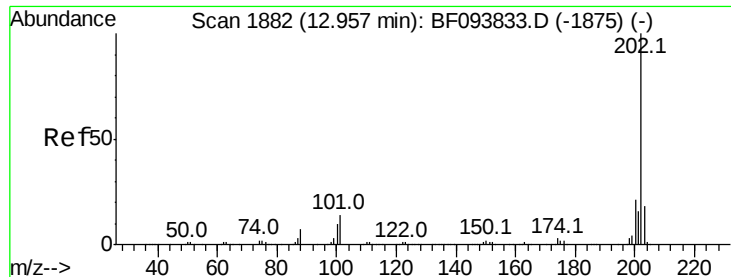
Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.2		16.2	24.4
179	15.2		12.6	19.0

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





#74

Fluoranthene

Concen: 13.15 ng

RT: 12.89 min Scan# 1870

Delta R.T. -0.04 min

Lab File: BF094016.D

Acq: 29 Mar 2017 2:06

Instrument :

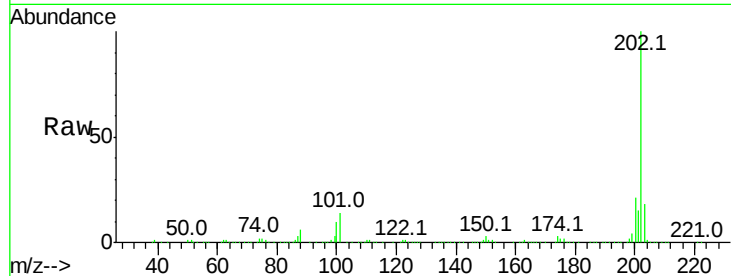
BNA_F

ClientSampled :

E2-R13-BASE

Tot Ion:	202	Resp:	379847
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	33.2
203	17.9	0.0	38.1

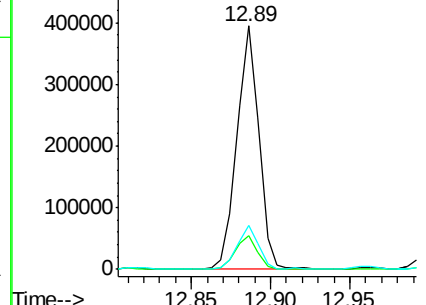
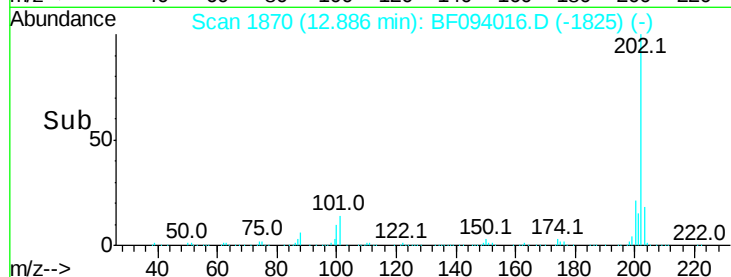
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Abundance Ion 202.00 (201.70 to 202.70): E

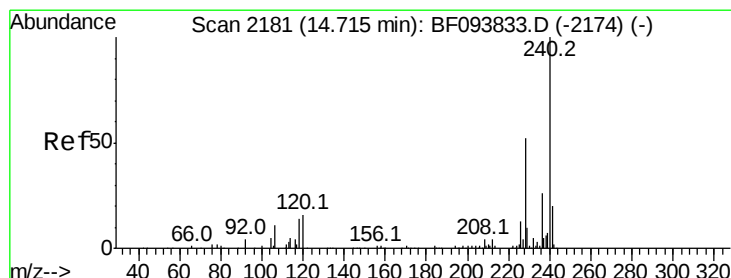
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



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#75

Chrysene-d12

Concen: 20.00 ng

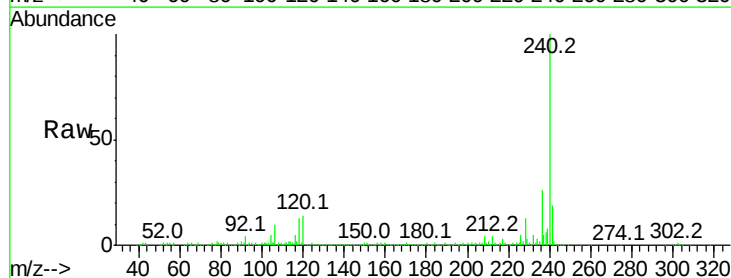
RT: 14.64 min Scan# 2169

Delta R.T. -0.04 min

Lab File: BF094016.D

Acq: 29 Mar 2017 2:06

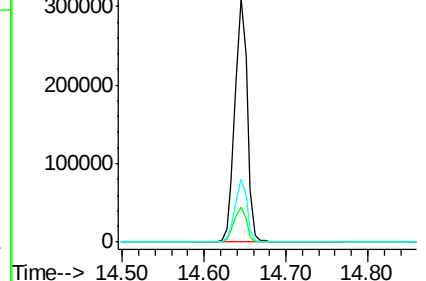
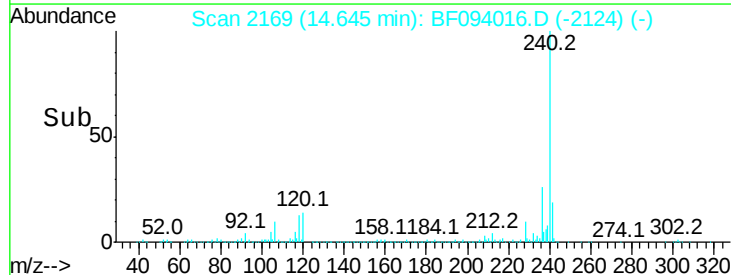
Tgt Ion:	240	Resp:	329911
Ion Ratio	Lower	Upper	
240	100		
120	14.4	5.8	8.8#
236	25.7	20.5	30.7

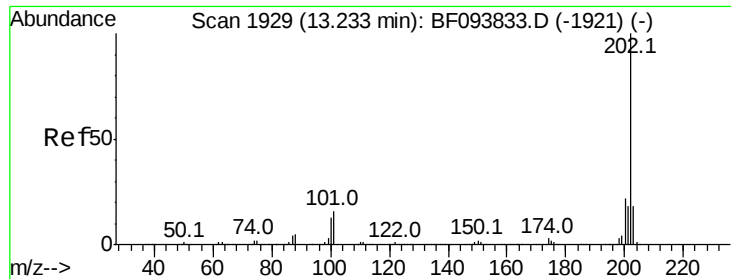


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



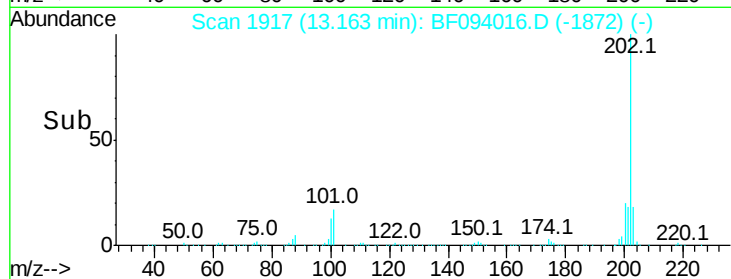
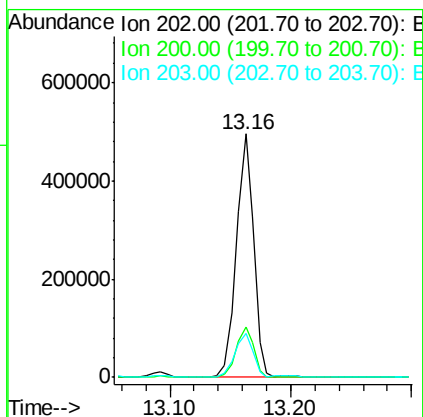
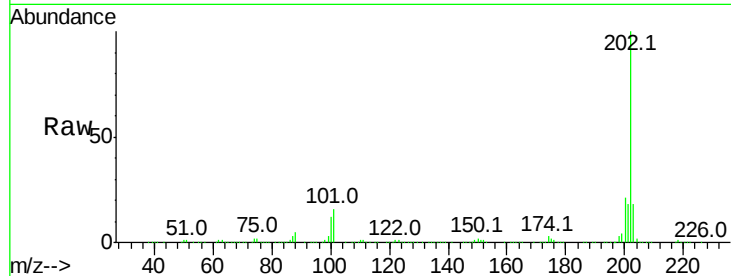


#77
Pvrene
Concen: 20.72 ng
RT: 13.16 min Scan# 1917
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Instrument :
BNA_F
ClientSampled :
E2-R13-BASE

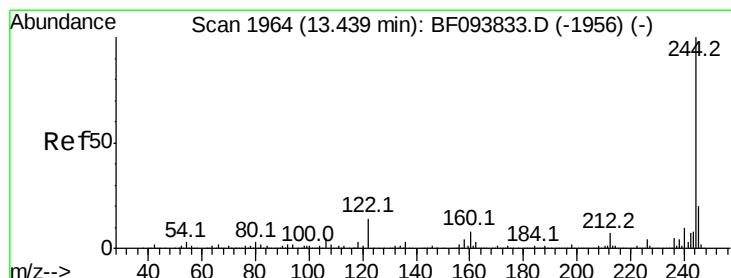
Tot Ion	Ratio	Resp	Lower	Upper
202	100	496094		
200	20.6		17.6	26.4
203	18.0		14.4	21.6

Manual Integrations
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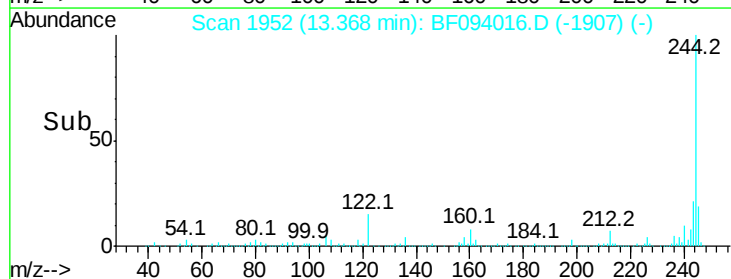
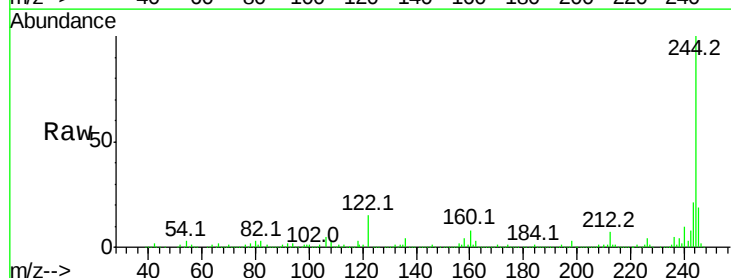
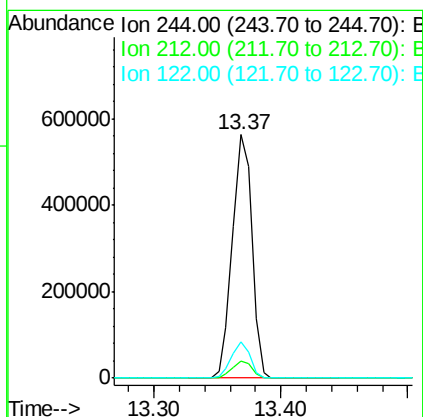
mohammad

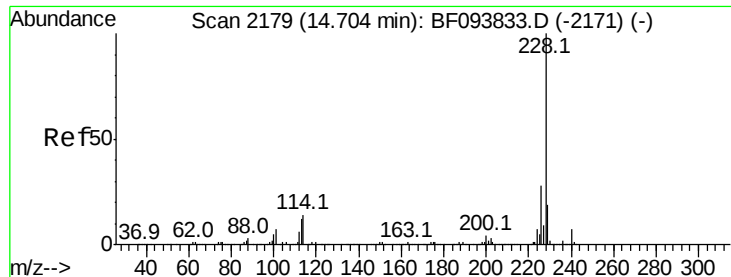
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#78
Terphenyl-d14
Concen: 40.63 ng
RT: 13.37 min Scan# 1952
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	597947		
212	6.8		6.0	9.0
122	14.7		10.3	15.5



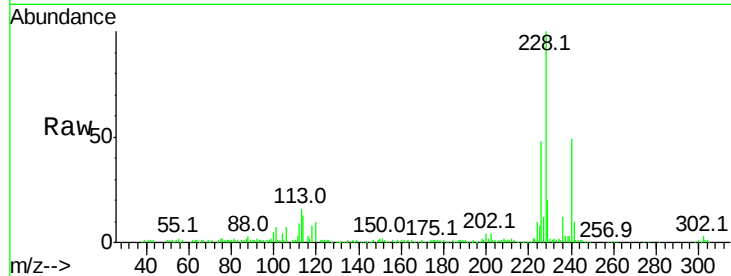


#80
Benzo(a)anthracene
Concen: 9.71 ng/mL
RT: 14.63 min Scan# 2167
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Instrument :
BNA_F
ClientSampleId :
E2-R13-BASE

Tot Ion	Ratio	Lower	Upper
228	100		
226	47.6	22.6	33.8#
229	19.6	16.3	24.5

Manual Integrations
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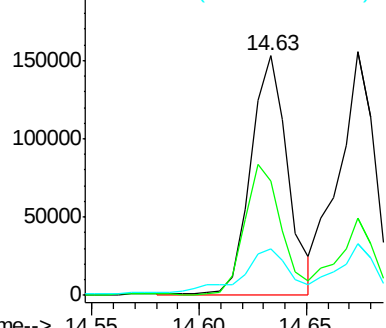


Abundance

Ion 228.00 (227.70 to 228.70): E

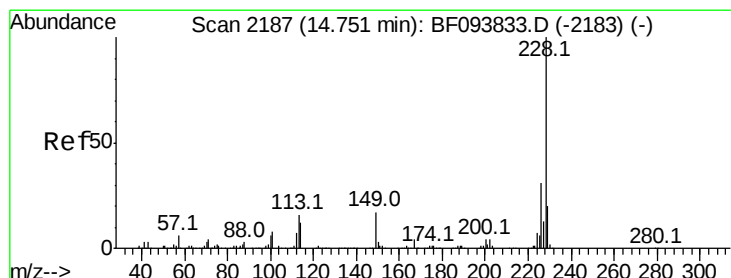
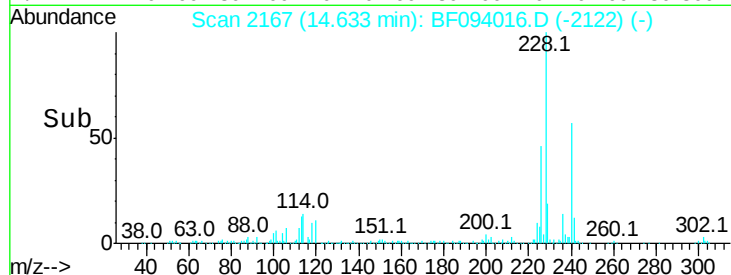
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



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#82
Chrysene
Concen: 10.21 ng/mL
RT: 14.67 min Scan# 2174
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

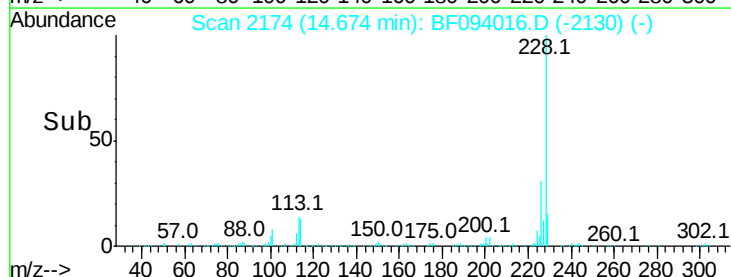
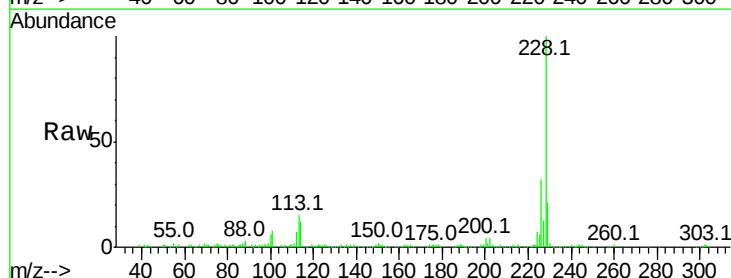
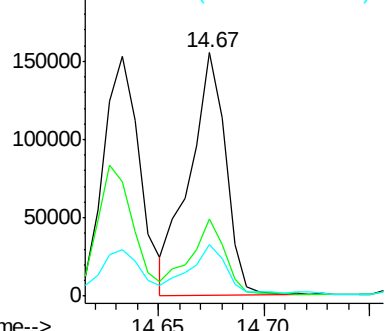
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	21.0	15.8	23.6

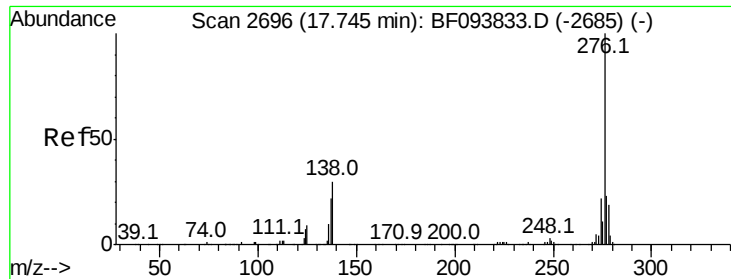
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



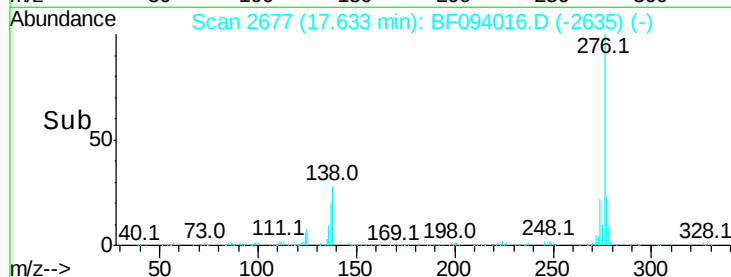
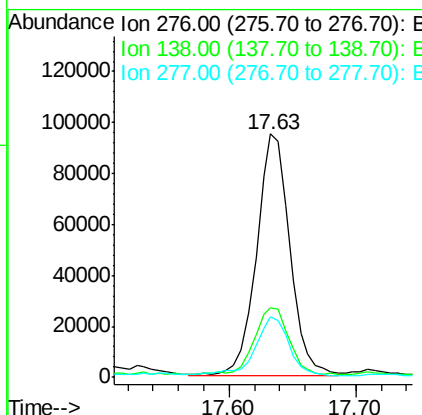
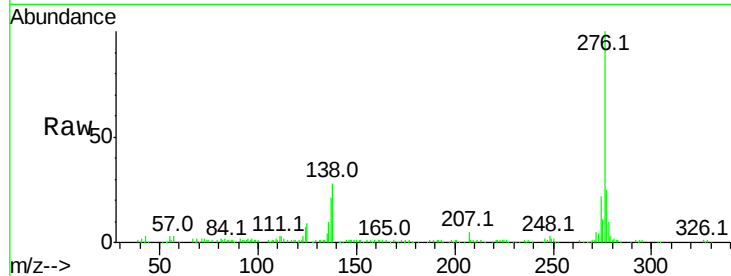


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.21 ng
 RT: 17.63 min Scan# 2677
 Delta R.T. -0.05 min
 Lab File: BF094016.D
 Acq: 29 Mar 2017 2:06

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-BASE

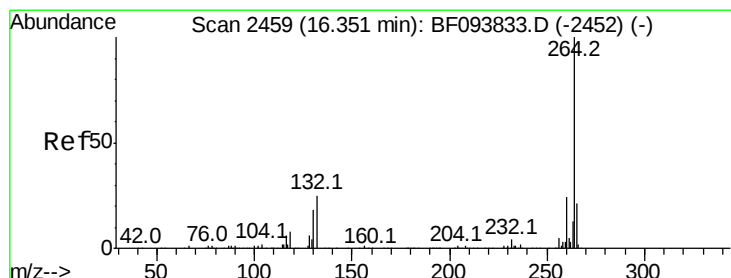
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.6	27.8	41.6
277	24.8	20.2	30.4

Manual Integrations
 APPROVED



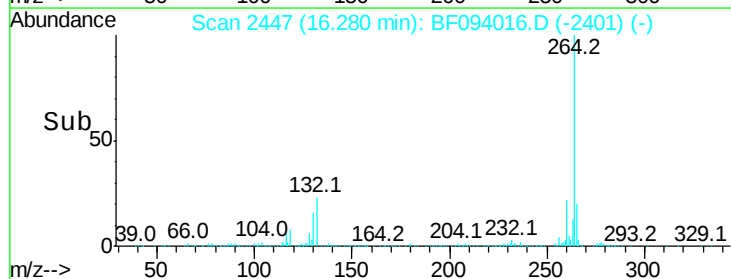
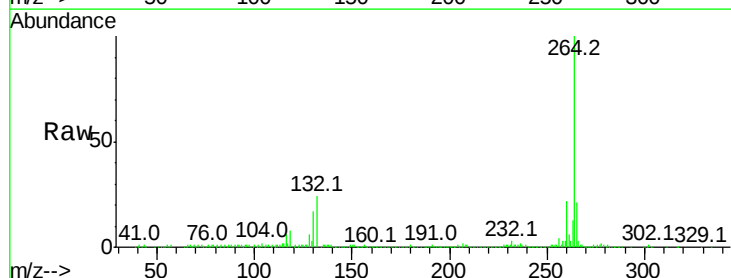
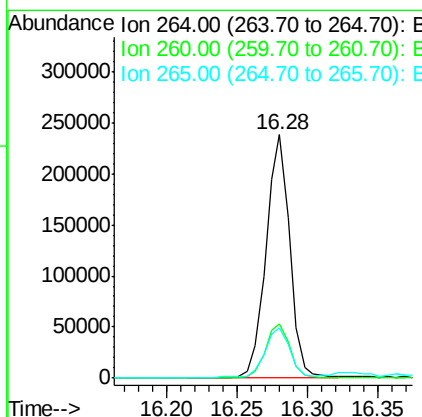
mohammad

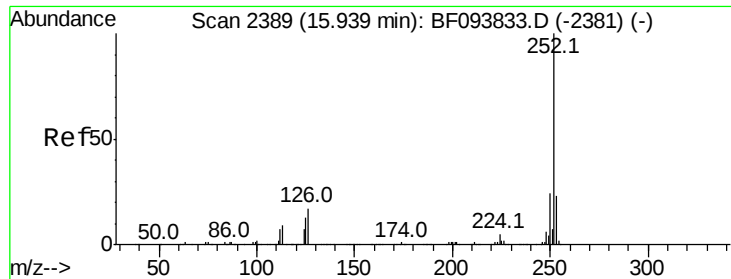
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.28 min Scan# 2447
 Delta R.T. -0.03 min
 Lab File: BF094016.D
 Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	20.6	17.2	25.8



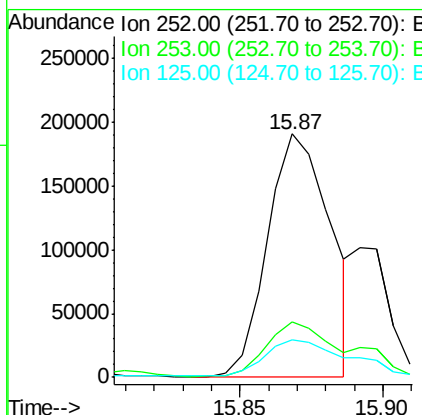
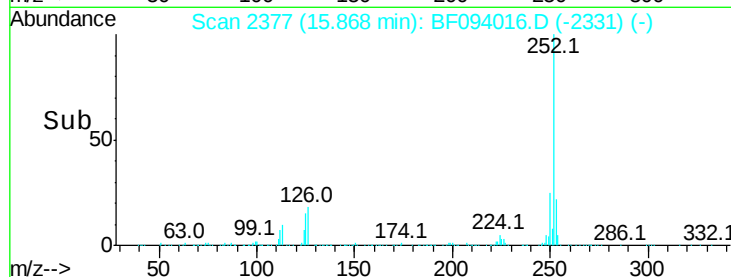
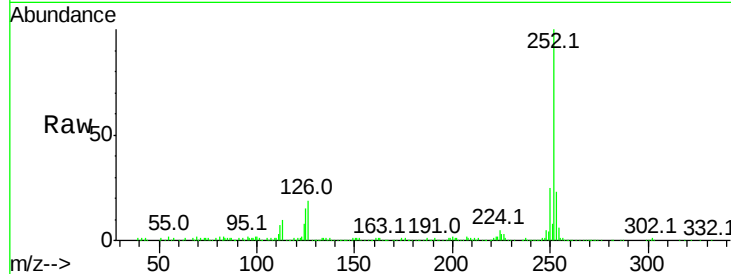


#87
Benzo(b)fluoranthene
Concen: 16.84 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.03 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Instrument :
BNA_F
ClientSampleId :
E2-R13-BASE

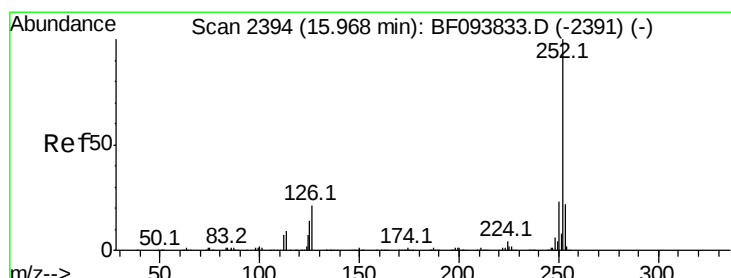
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	15.4	9.8	14.8

Manual Integrations
APPROVED



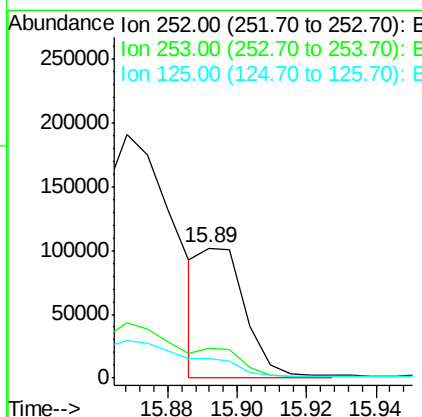
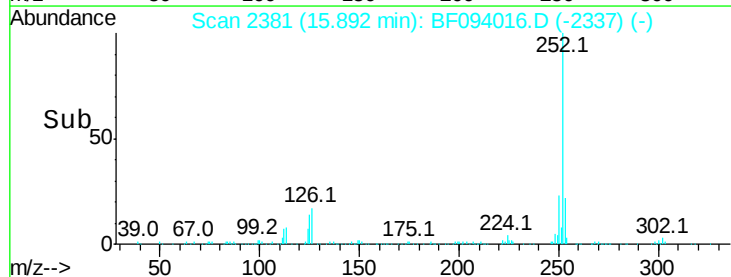
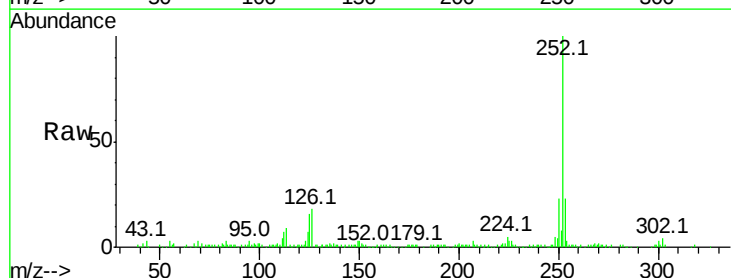
mohammad

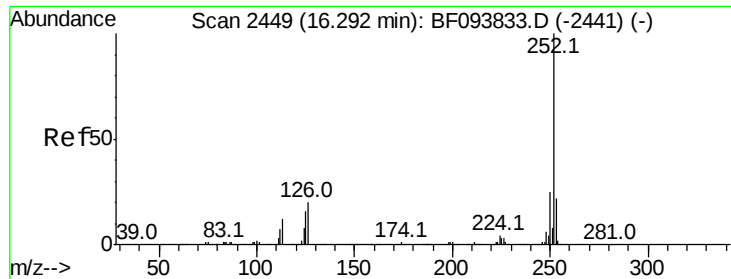
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#88
Benzo(k)fluoranthene
Concen: 5.46 ng m
RT: 15.89 min Scan# 2381
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	15.5	13.1	19.7



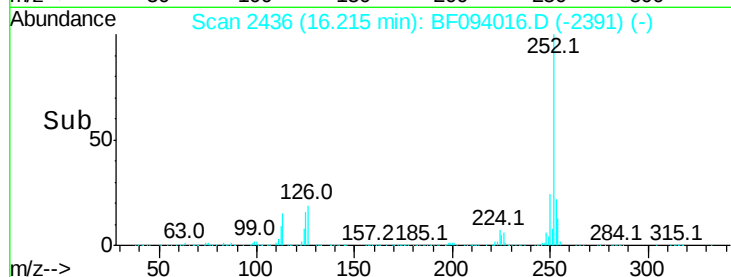
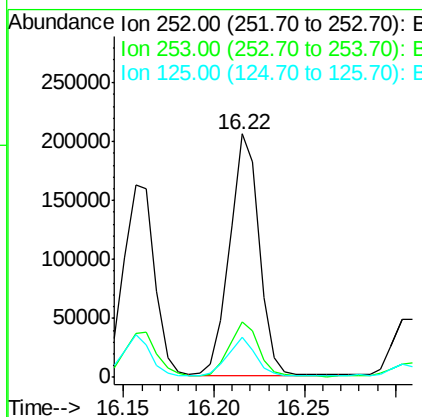
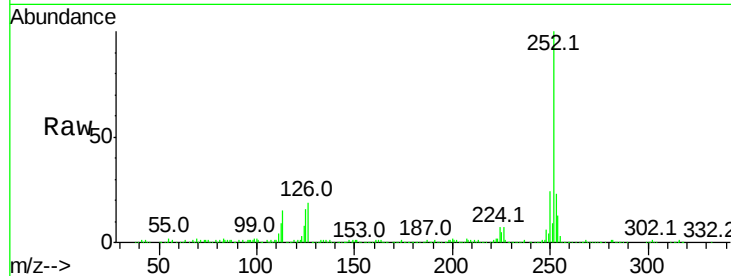


#89
Benzo(a)pyrene
Concen: 14.71 ng
RT: 16.22 min Scan# 2436
Delta R.T. -0.04 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Instrument :
BNA_F
ClientSampleId :
E2-R13-BASE

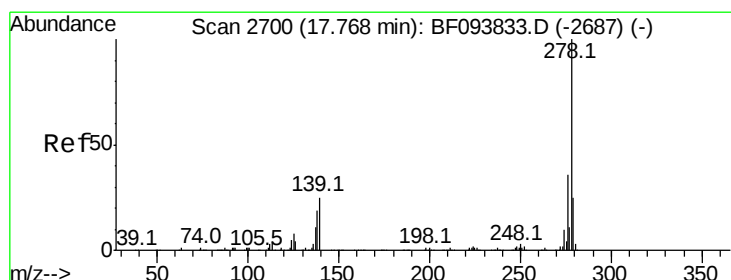
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	16.3	11.0	16.4

Manual Integrations
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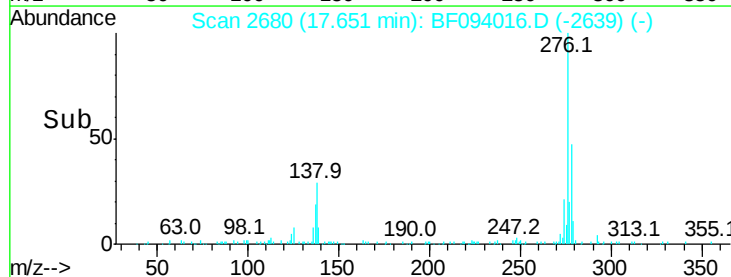
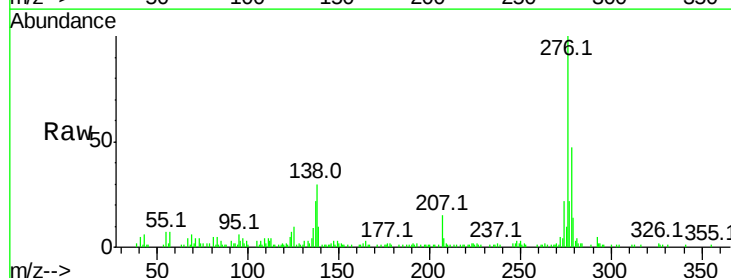
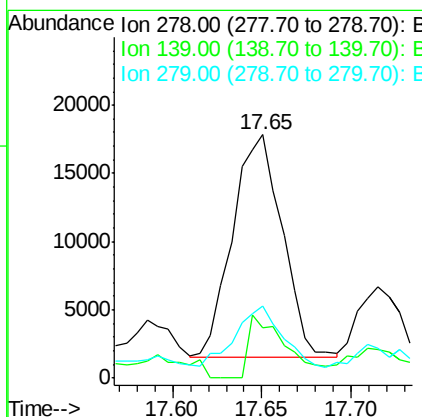
mohammad

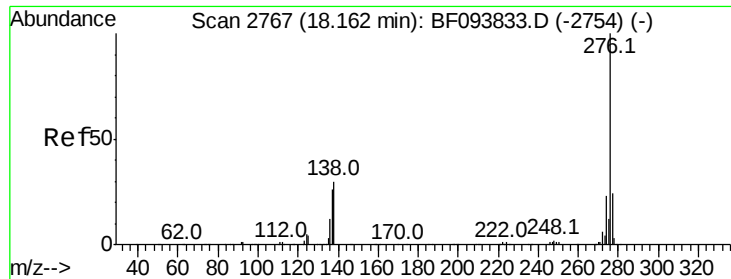
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#90
Dibenzo(a,h)anthracene
Concen: 2.32 ng m
RT: 17.65 min Scan# 2680
Delta R.T. -0.06 min
Lab File: BF094016.D
Acq: 29 Mar 2017 2:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.6	16.6	24.8
279	29.7	19.3	28.9#



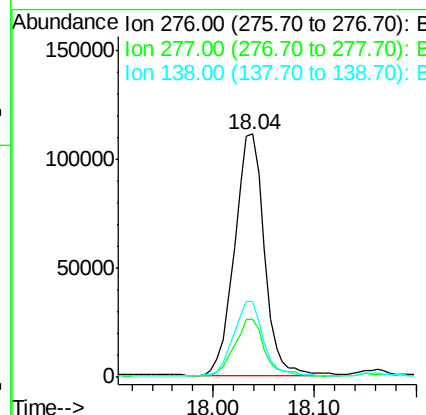
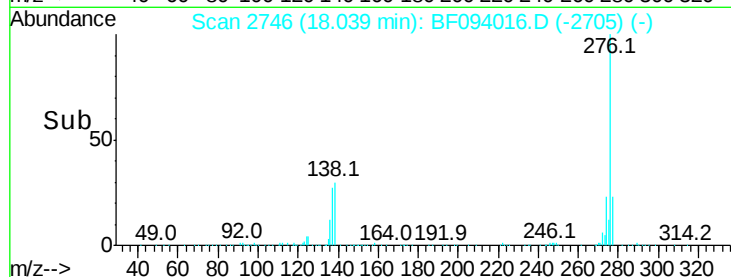
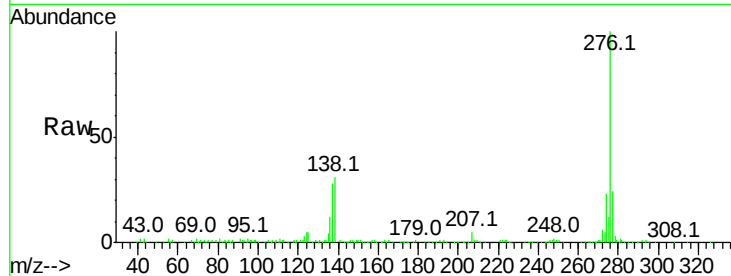


#91
 Benzo(a,h,i)perylene
 Concen: 16.65 ng
 RT: 18.04 min Scan# 2746
 Delta R.T. -0.06 min
 Lab File: BF094016.D
 Acq: 29 Mar 2017 2:06

Instrument :
 BNA_F
 ClientSampleId :
 E2-R13-BASE

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	23.9	18.6	28.0
138	31.0	25.4	38.0

Manual Integrations
 APPROVED



mohammad

3/29/2017 1:57:21 PM