

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097189.D
 Acq On : 29 Jul 2017 8:10
 Operator : SJ/JU
 Sample : I4421-08
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

Manual Integrations
 APPROVED

Quant Time: Jul 31 01:48:44 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	113378	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	408129	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	145962	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	218172	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	192900	20.00	ng	-0.01
86) Perylene-d12	14.96	264	139475	20.00	ng	-0.01

Sohil

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.09	112	830582	110.44	ng	0.00
7) Phenol-d6	6.15	99	994863	115.87	ng	-0.02
23) Nitrobenzene-d5	7.06	82	608287	87.43	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	125743	109.03	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	687657	79.95	ng	-0.02
78) Terphenyl-d14	12.57	244	431884	45.65	ng	-0.02

7/31/2017 6:53:06 PM

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.16	94	39993	3.927	ng	96
49) Dimethylphthalate	9.25	163	198334	17.894	ng	99
70) Phenanthrene	11.01	178	55120	4.715	ng	98
74) Fluoranthene	12.19	202	297160	25.949	ng	96
77) Pyrene	12.42	202	322200	20.403	ng	99
80) Benzo(a)anthracene	13.60	228	165414	13.253	ng	93
82) Chrysene	13.64	228	136098	11.167	ng	98
85) Indeno(1,2,3-cd)pyrene	16.19	276	58617	5.609	ng	92
87) Benzo(b)fluoranthene	14.60	252	166991m	19.917	ng	
88) Benzo(k)fluoranthene	14.63	252	38643m	4.837	ng	
89) Benzo(a)pyrene	14.91	252	116388	15.168	ng	98
90) Dibenzo(a,h)anthracene	16.18	278	13095	2.081	ng	# 82
91) Benzo(a,h,i)perylene	16.54	276	50144	7.599	ng	98

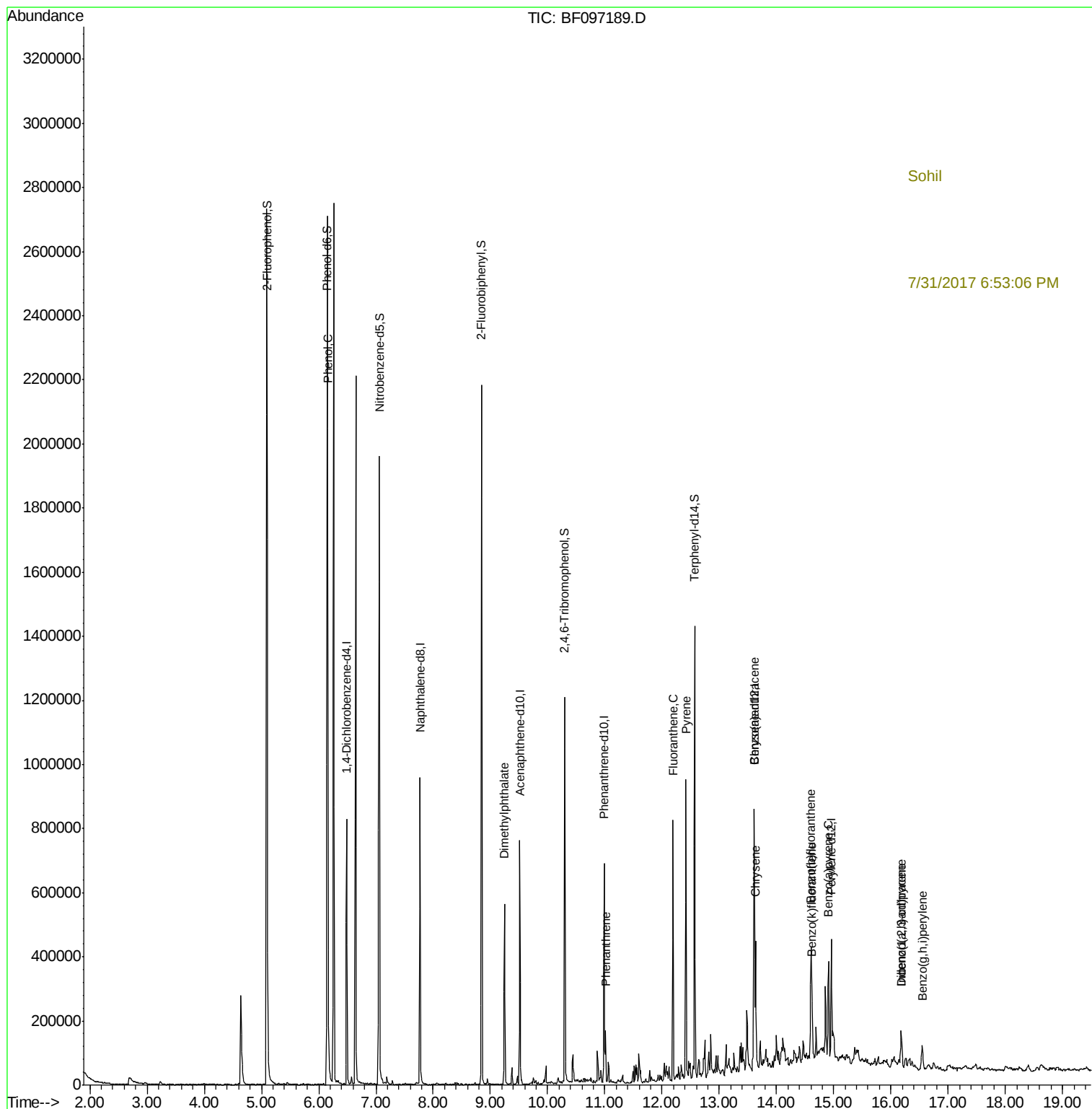
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097189.D
Acq On : 29 Jul 2017 8:10
Operator : SJ/JU
Sample : I4421-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Manual Integrations
APPROVED

Quant Time: Jul 31 01:48:44 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 14:11:51 2017
Response via : Initial Calibration





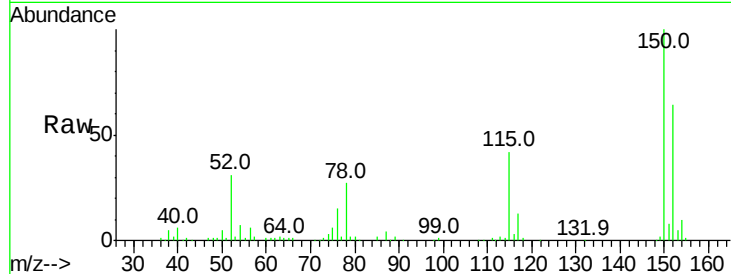
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.7	126.2	189.2
115	66.0	52.2	78.2

Manual Integrations
APPROVED

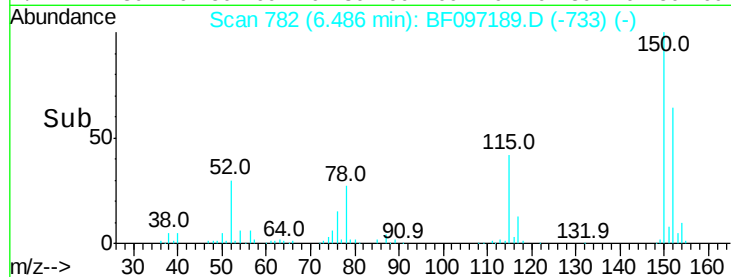
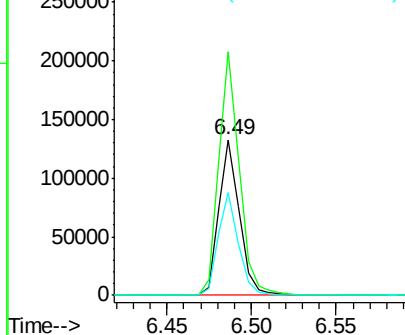


Abundance

Ion 152.00 (151.70 to 152.70): E

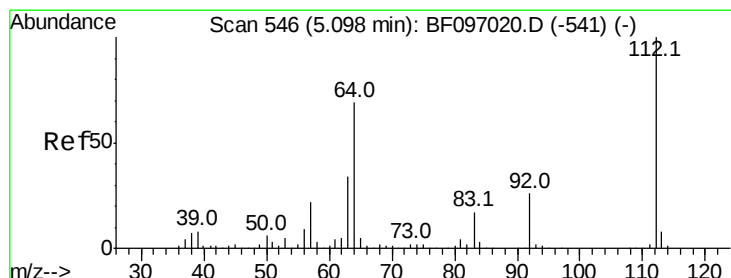
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Sohil

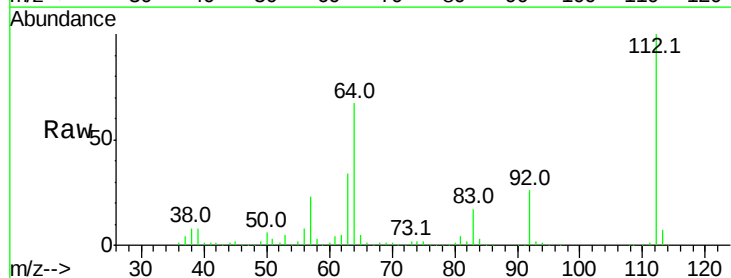
7/31/2017 6:53:06 PM



#5

2-Fluorophenol
Concen: 110.435 ng
RT: 5.09 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	46.0	69.0
63	34.3	23.4	35.0

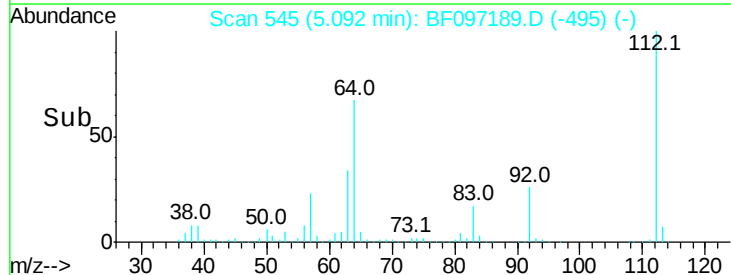
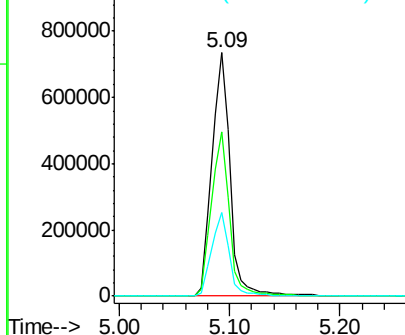


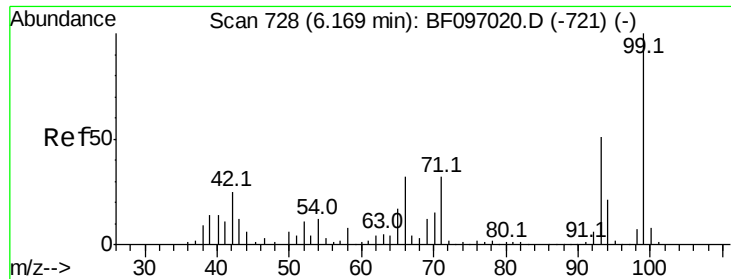
Abundance

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: 115.869 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

BNA_F

ClientSampleId :

E2-HS5-ESW

Tot Ion: 99 Resp: 994863

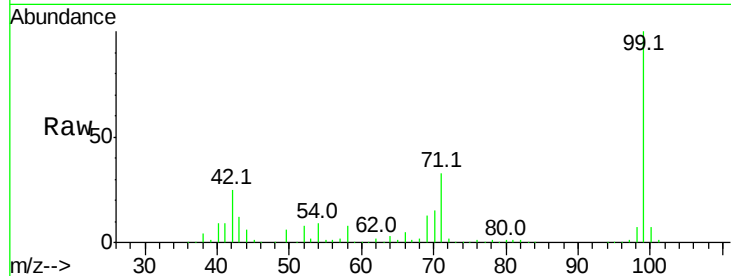
Ion Ratio Lower Upper

99 100

42 24.9 13.5 20.3#

71 33.1 24.5 36.7

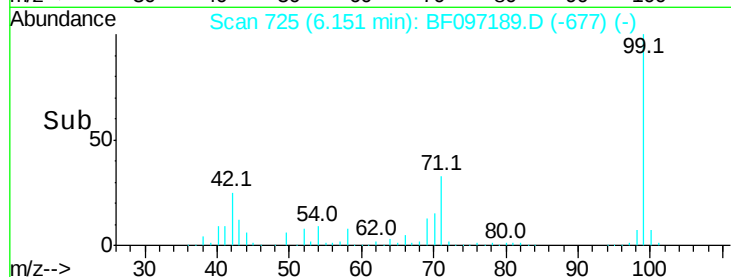
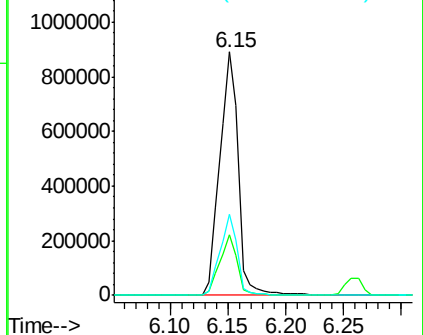
Manual Integrations
APPROVED



Abundance Ion 99.00 (98.70 to 99.70): BF0

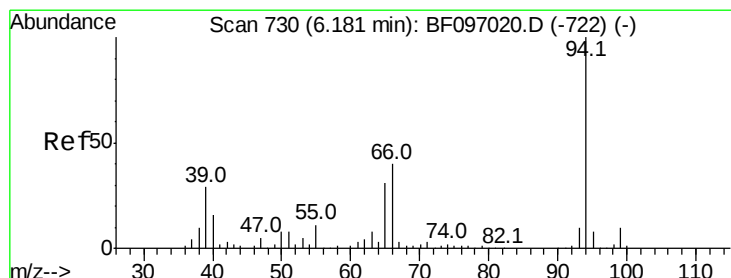
Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Sohil

7/31/2017 6:53:06 PM



#10

Phenol

Concen: 3.927 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

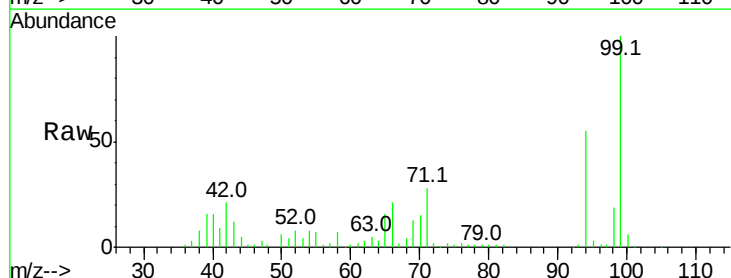
Tgt Ion: 94 Resp: 39993

Ion Ratio Lower Upper

94 100

65 29.5 9.9 49.9

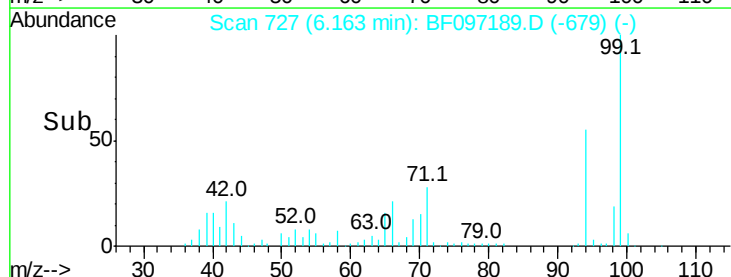
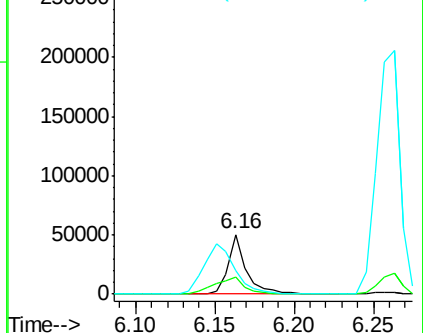
66 39.2 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

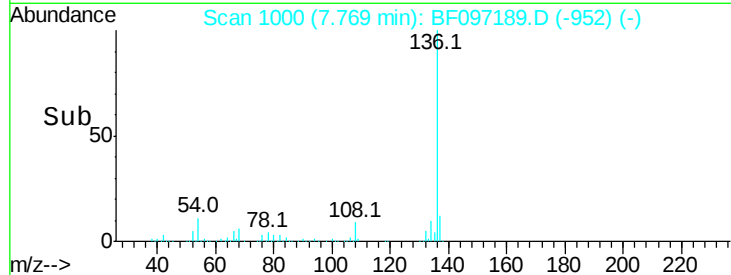
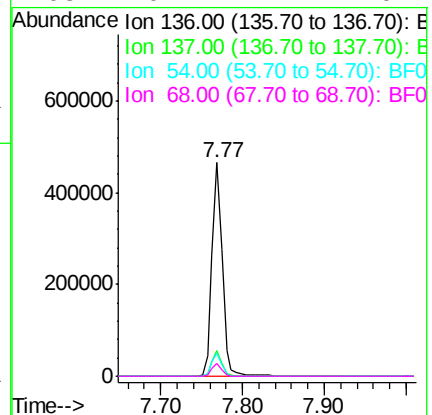
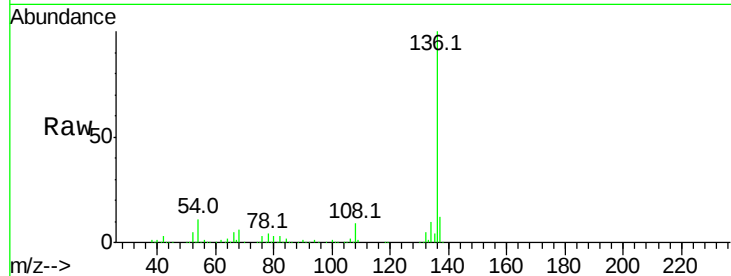
BNA_F

ClientSampleId :

E2-HS5-ESW

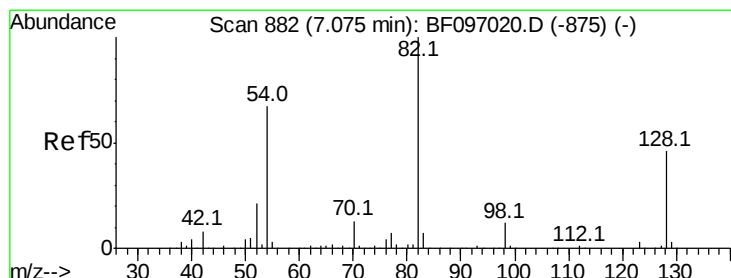
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.7	8.5	12.7	
54	10.9	4.9	7.3	
68	6.2	4.1	6.1	

Manual Integrations
APPROVED



Sohil

7/31/2017 6:53:06 PM



#23

Nitrobenzene-d5

Concen: 87.434 ng

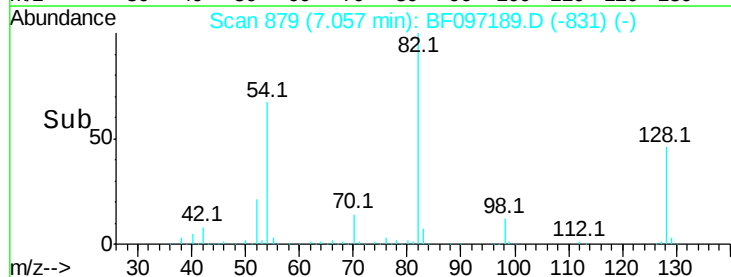
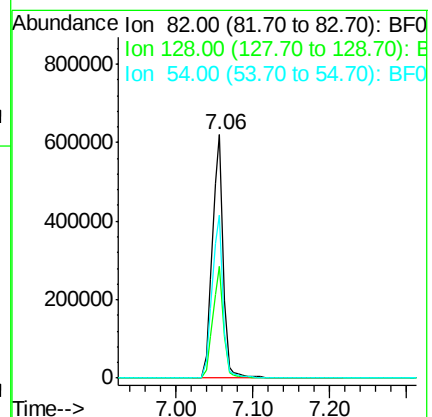
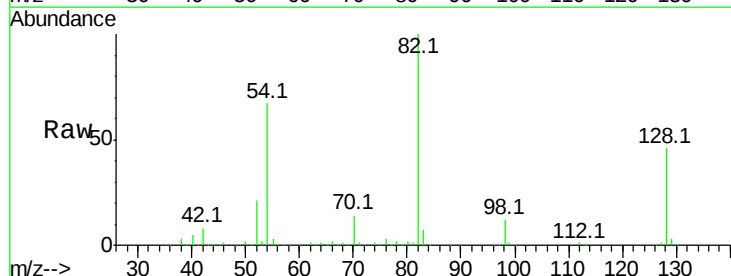
RT: 7.06 min Scan# 879

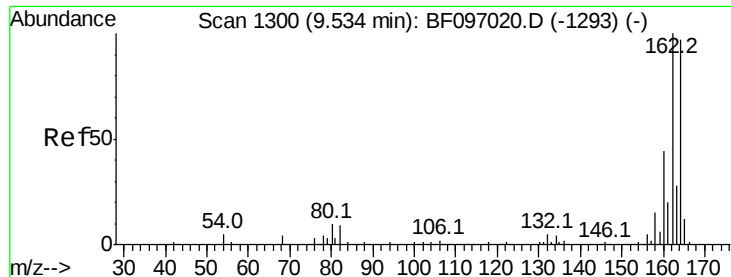
Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.8	34.0	51.0	
54	66.8	42.2	63.2	



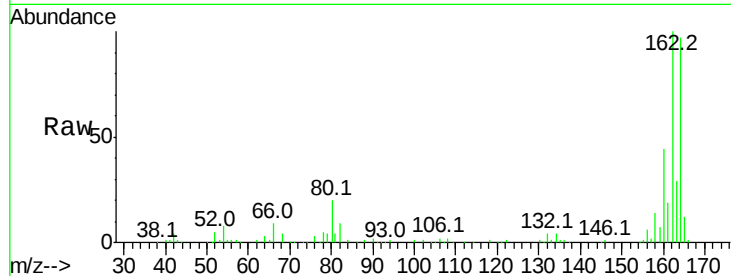


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.52 min Scan# 1297
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

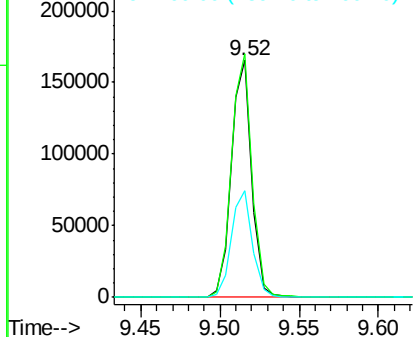
Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.6	123.8
160	45.2	36.2	54.2

Manual Integrations
APPROVED

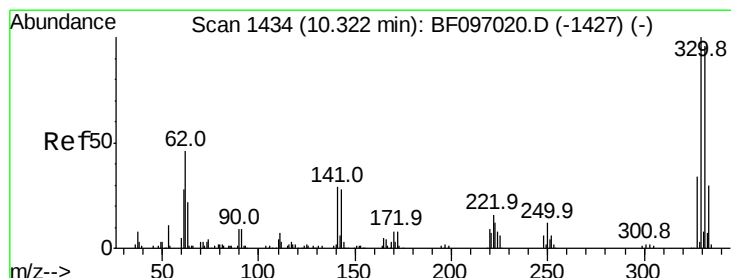
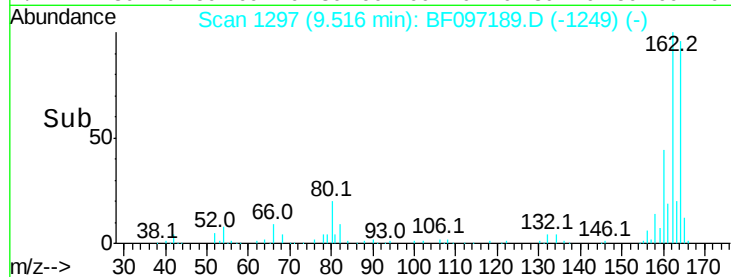


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



Sohil

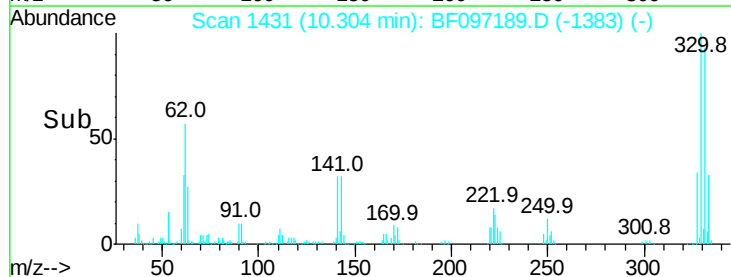
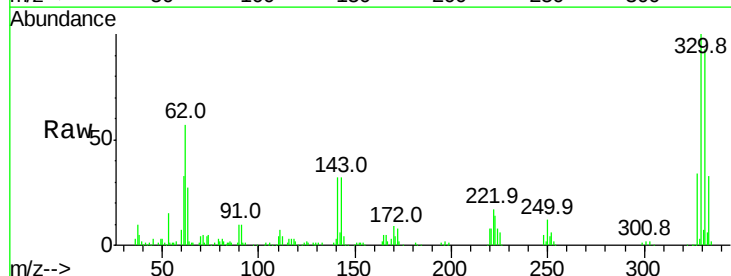
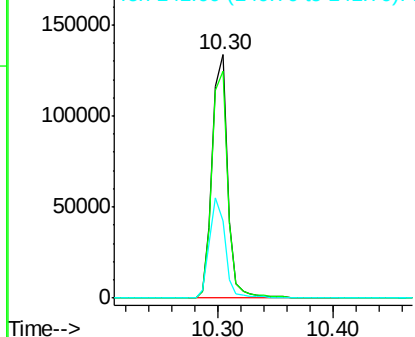
7/31/2017 6:53:06 PM

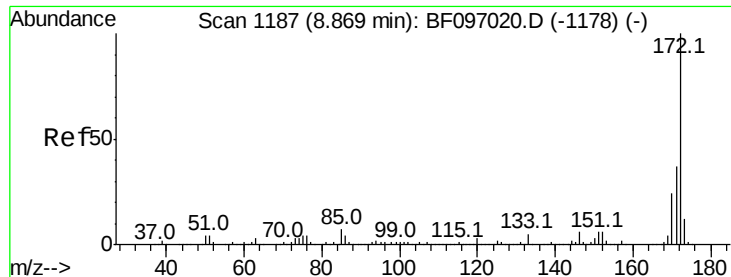


#41
2,4,6-Tribromophenol
Concen: 109.034 ng
RT: 10.30 min Scan# 1431
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	115.0
141	42.3	31.4	47.2

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



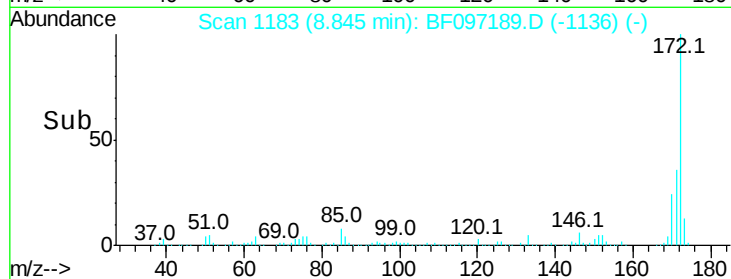
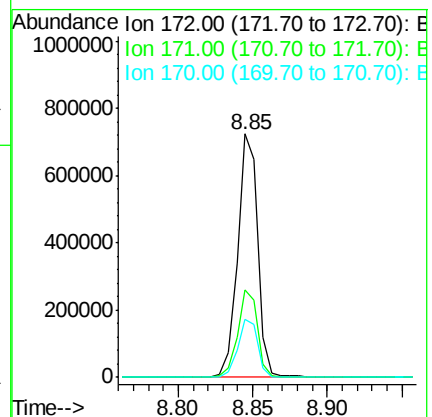
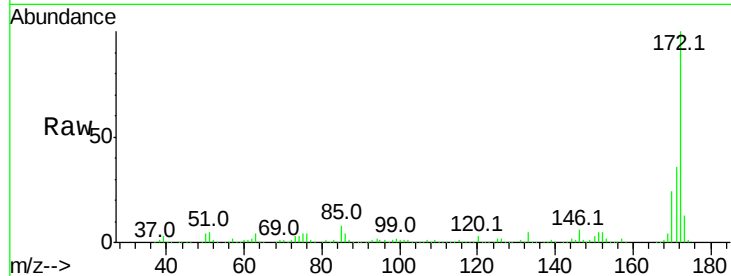


#44
2-Fluorobiphenyl
Concen: 79.954 ng
RT: 8.85 min Scan# 1183
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampled :
E2-HS5-ESW

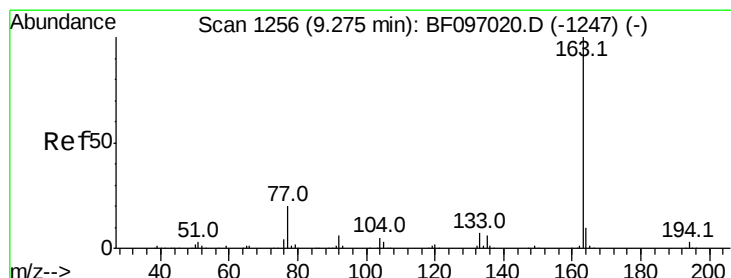
Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	36.1	29.6	44.4
170	23.8	19.8	29.8

Manual Integrations
APPROVED



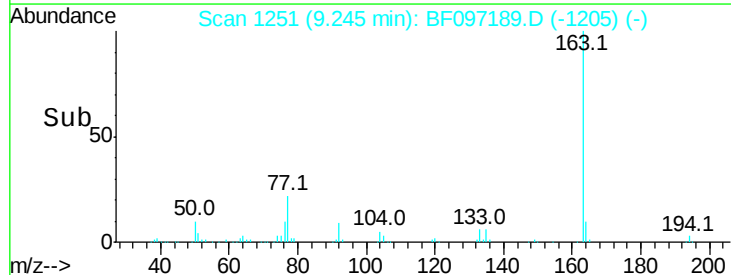
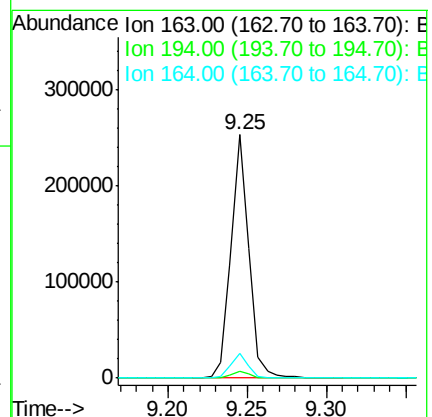
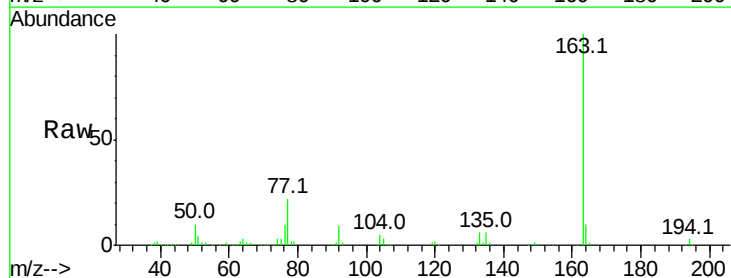
Sohil

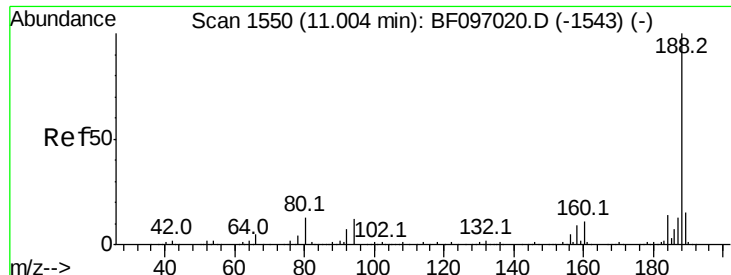
7/31/2017 6:53:06 PM



#49
Dimethylphthalate
Concen: 17.894 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.03 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	2.9	2.6	4.0
164	10.1	8.4	12.6



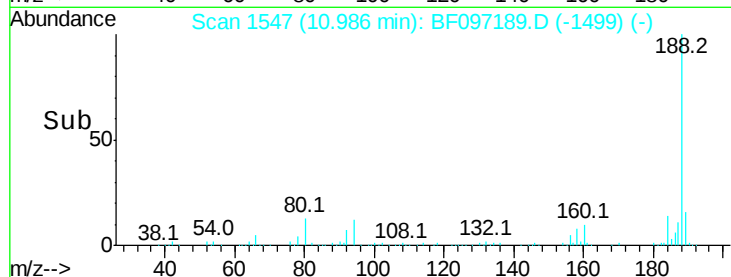
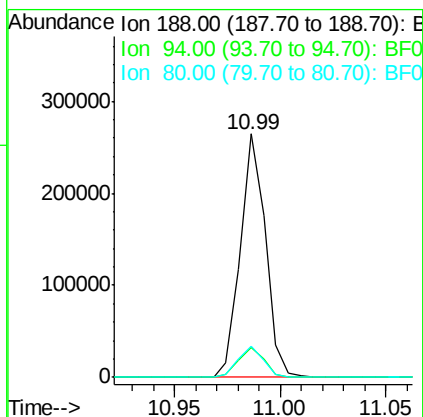
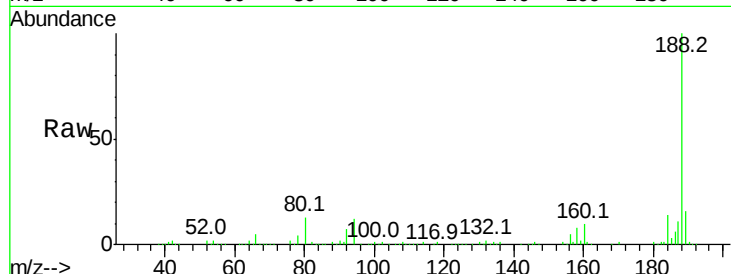


#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampled :
E2-HS5-ESW

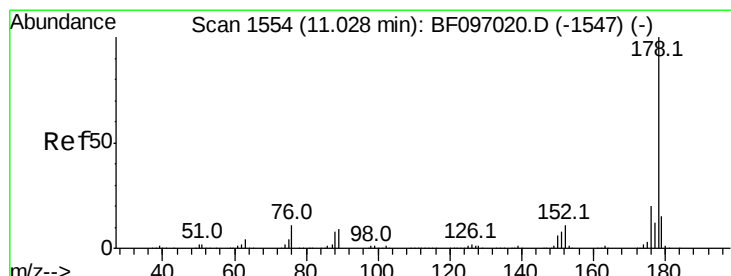
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	12.1	9.4	14.2
80	12.6	10.2	15.2

Manual Integrations
APPROVED



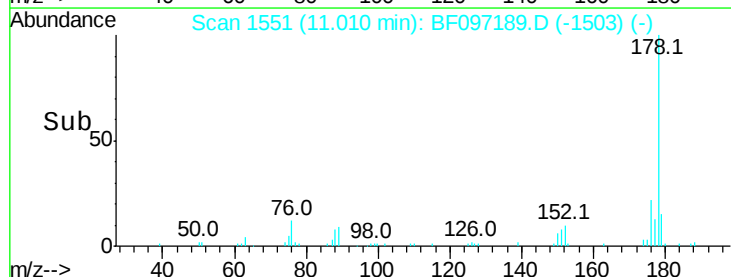
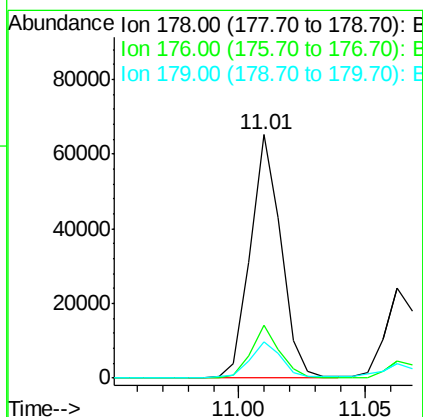
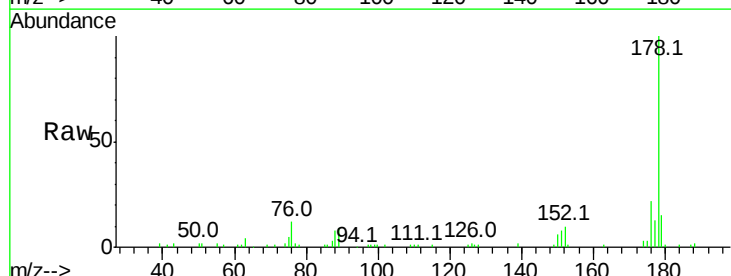
Sohil

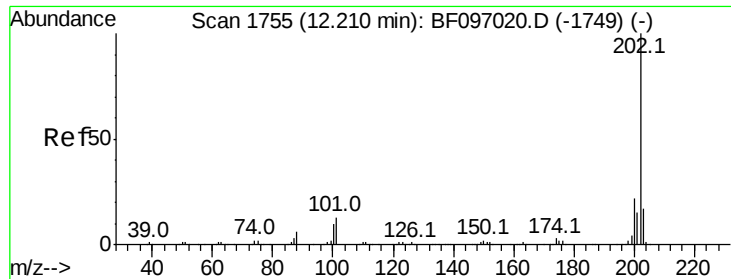
7/31/2017 6:53:06 PM



#70
Phenanthrene
Concen: 4.715 ng
RT: 11.01 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	21.5	16.2	24.4
179	14.9	12.6	19.0





#74

Fluoranthene

Concen: 25.949 ng

RT: 12.19 min Scan# 1752

Delta R.T. -0.02 min

Lab File: BF097189.D

Acq: 29 Jul 2017 8:10

Instrument :

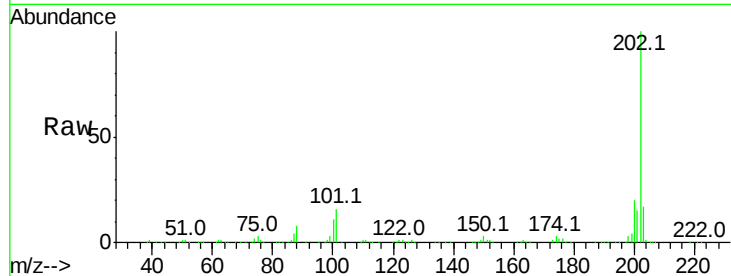
BNA_F

ClientSampleId :

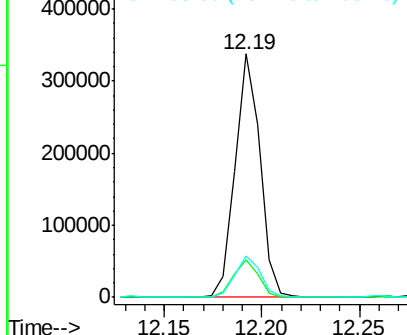
E2-HS5-ESW

Tot Ion:	202	Resp:	297160
Ion Ratio		Lower	Upper
202	100		
101	15.5	0.0	33.2
203	17.2	0.0	38.1

Manual Integrations
APPROVED

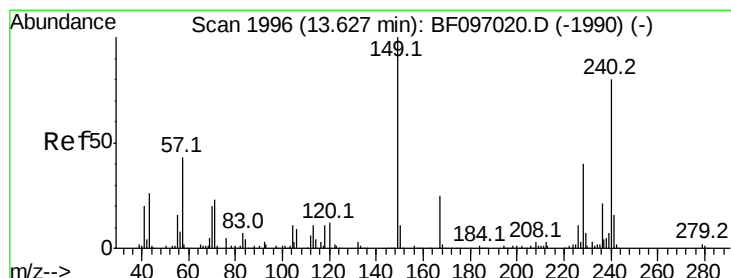


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Sohil

7/31/2017 6:53:06 PM



#75

Chrysene-d12

Concen: 20.000 ng

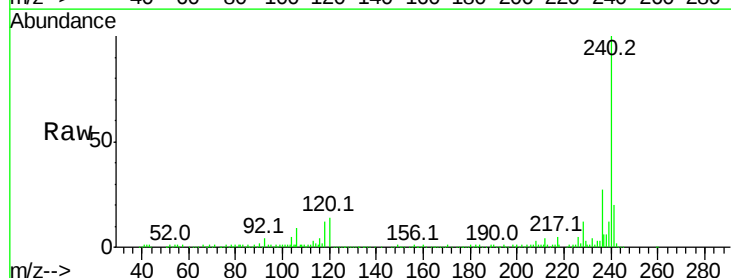
RT: 13.62 min Scan# 1994

Delta R.T. -0.01 min

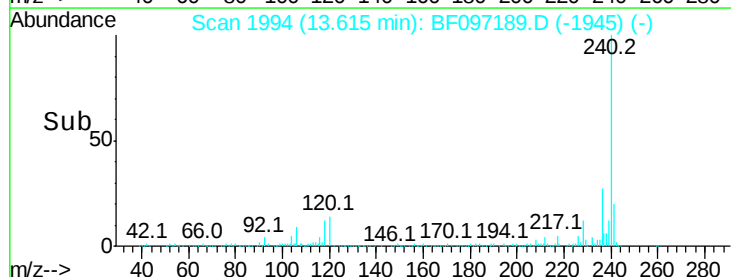
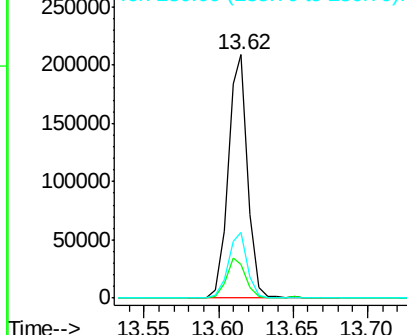
Lab File: BF097189.D

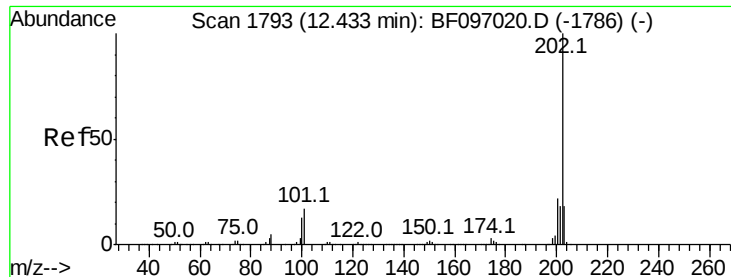
Acq: 29 Jul 2017 8:10

Tgt Ion:	240	Resp:	192900
Ion Ratio		Lower	Upper
240	100		
120	13.9	5.8	8.8#
236	26.8	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



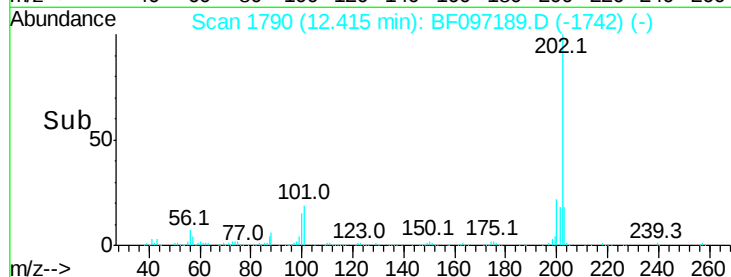
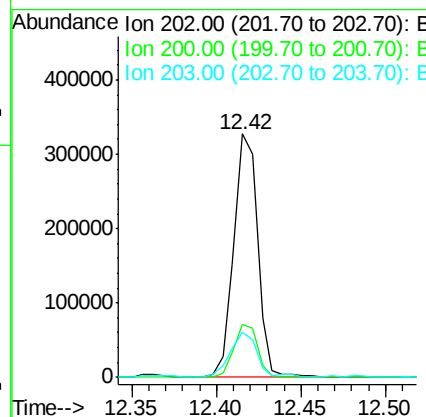
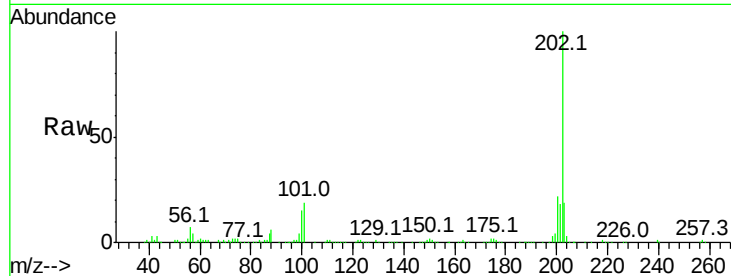


#77
Pvrene
Concen: 20.403 ng
RT: 12.42 min Scan# 1790
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

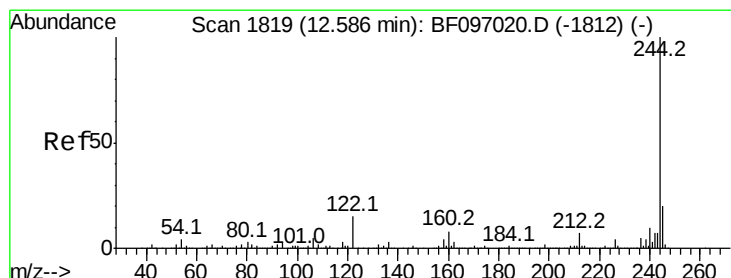
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	18.8	14.4	21.6

Manual Integrations
APPROVED



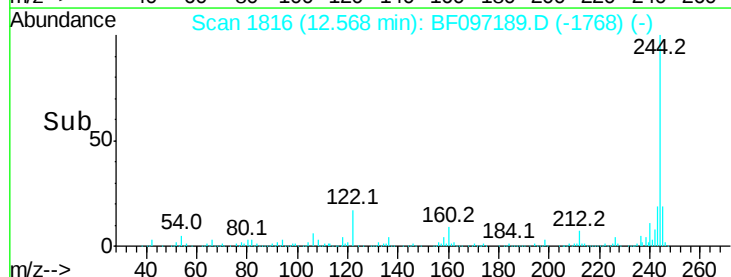
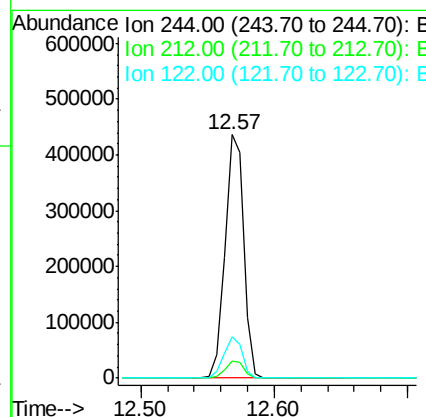
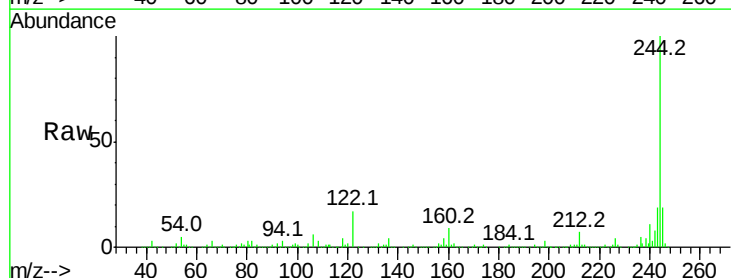
Sohil

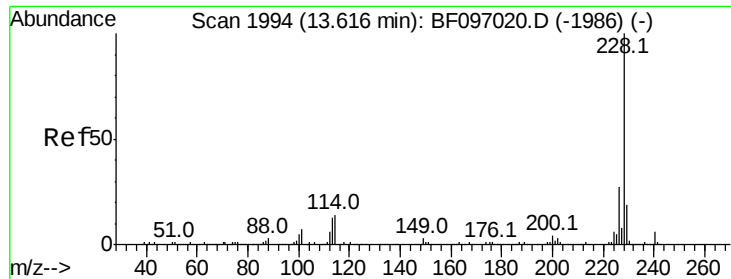
7/31/2017 6:53:06 PM



#78
Terphenyl-d14
Concen: 45.648 ng
RT: 12.57 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	16.9	10.3	15.5#



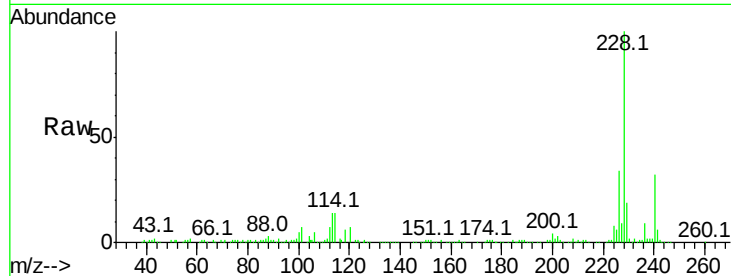


#80
Benzo(a)anthracene
Concen: 13.253 ng
RT: 13.60 min Scan# 1992
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

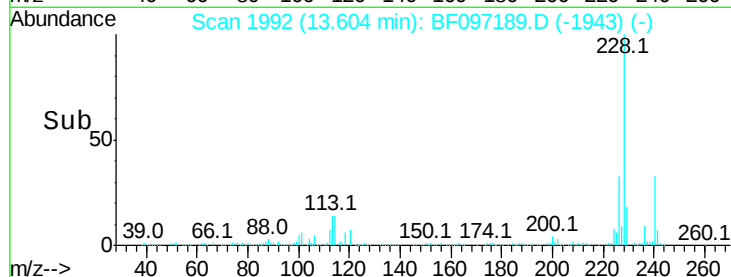
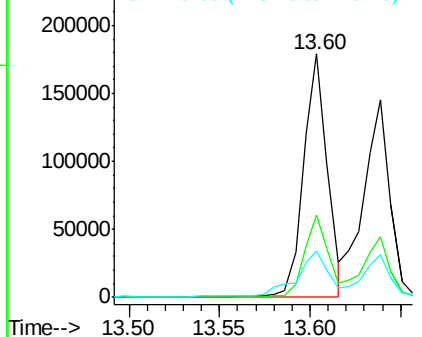
Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.6	22.6	33.8
229	19.0	16.3	24.5

Manual Integrations
APPROVED

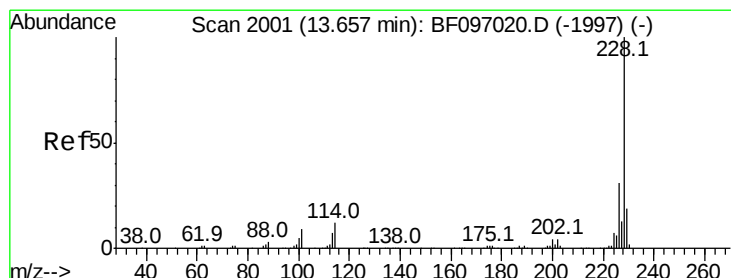


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Sohil

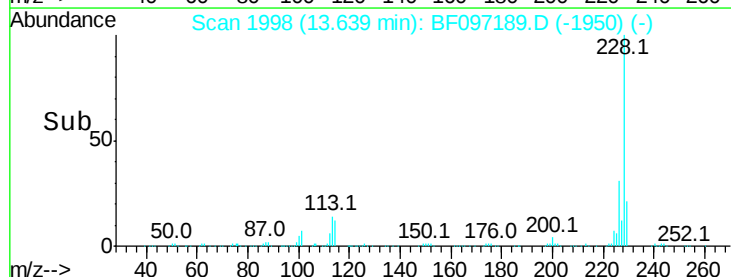
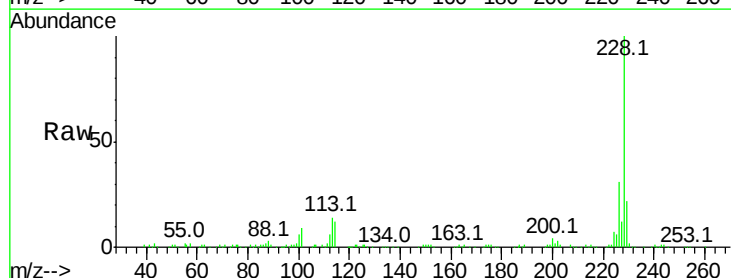
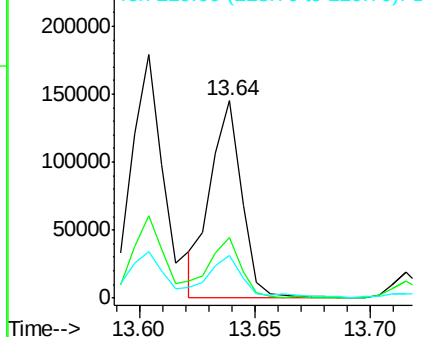
7/31/2017 6:53:06 PM

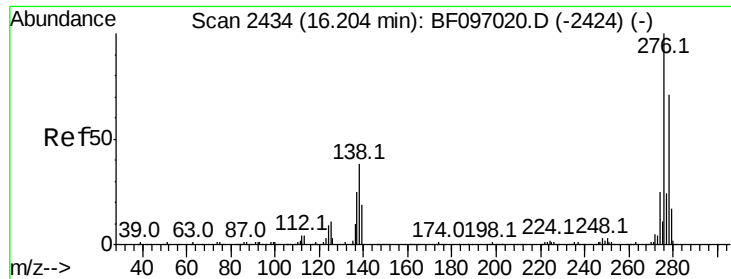


#82
Chrysene
Concen: 11.167 ng
RT: 13.64 min Scan# 1998
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.9	37.3
229	21.7	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



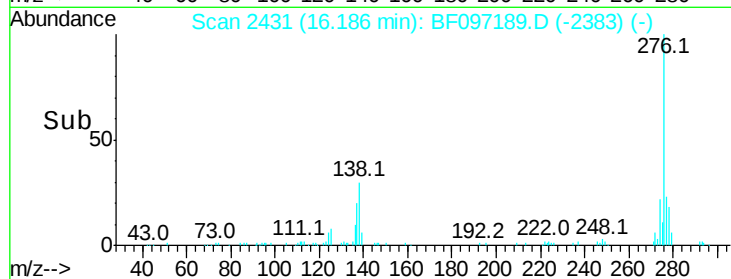
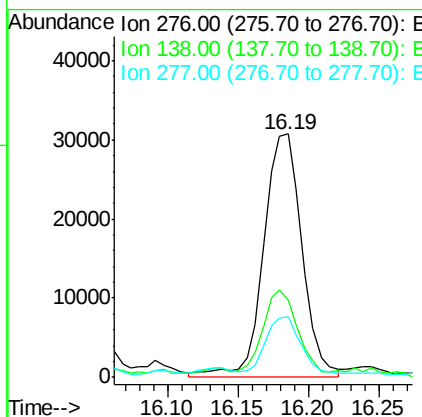
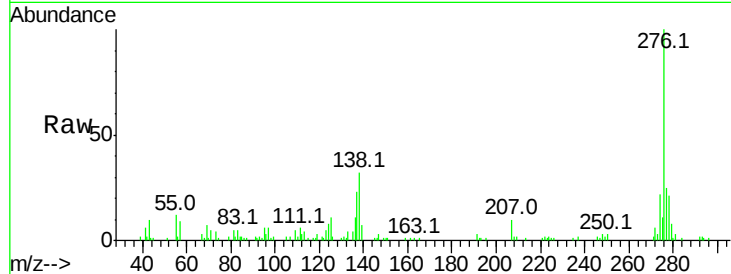


#85
Indeno(1,2,3-cd)pyrene
Concen: 5.609 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

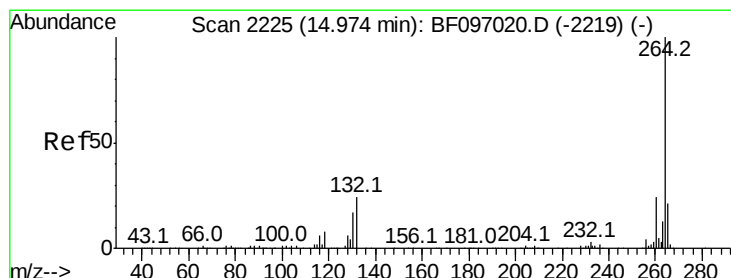
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.5	27.8	41.6
277	21.4	20.2	30.4

Manual Integrations
APPROVED



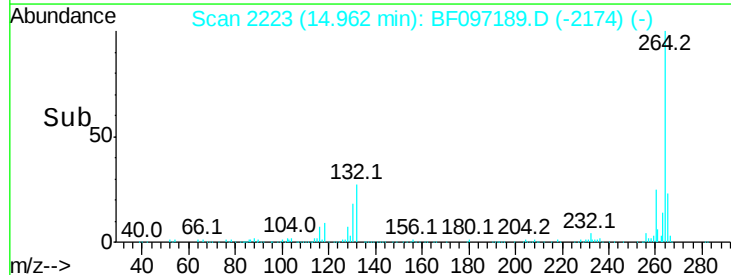
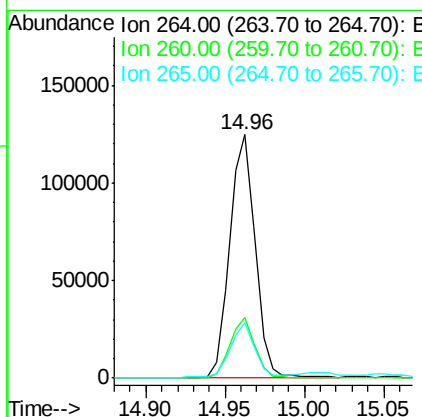
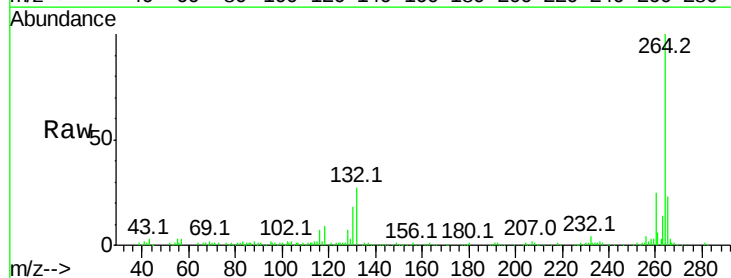
Sohil

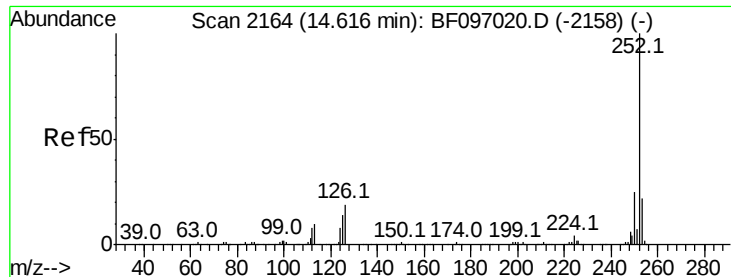
7/31/2017 6:53:06 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 14.96 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.5	29.3
265	23.0	17.2	25.8



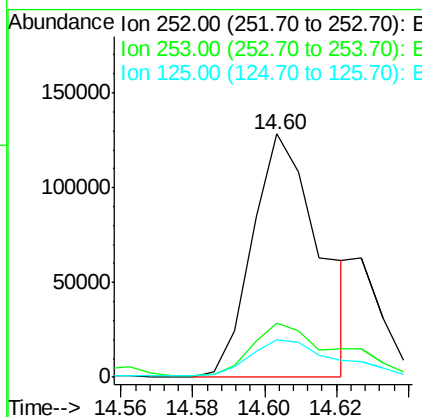
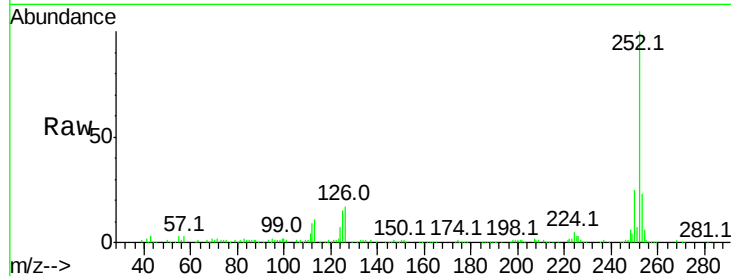


#87
Benzo(b)fluoranthene
Concen: 19.917 ng m
RT: 14.60 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

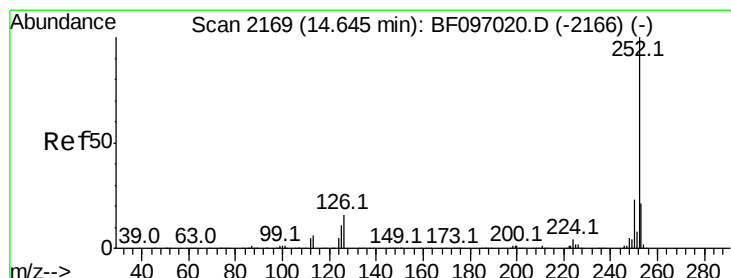
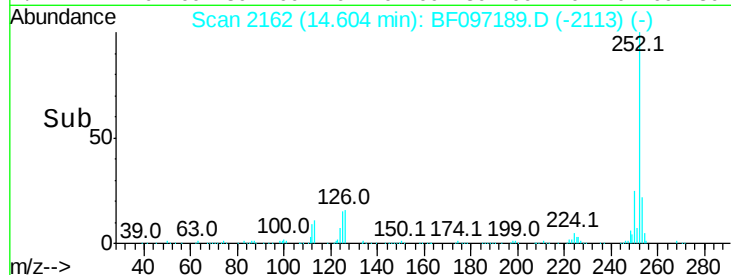
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	15.2	9.8	14.8

Manual Integrations
APPROVED



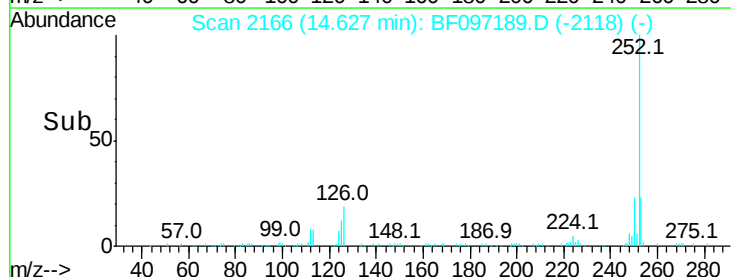
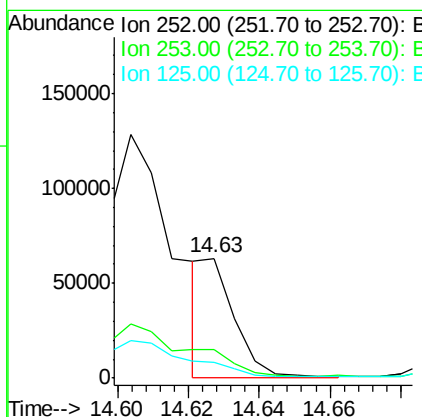
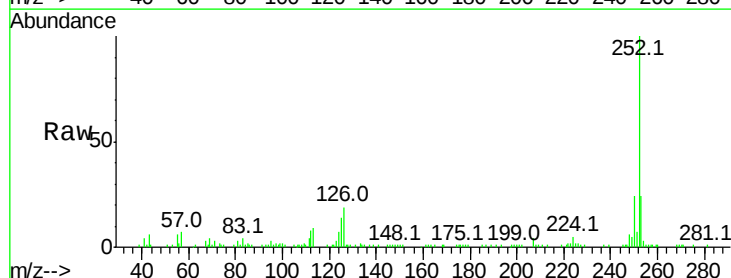
Sohil

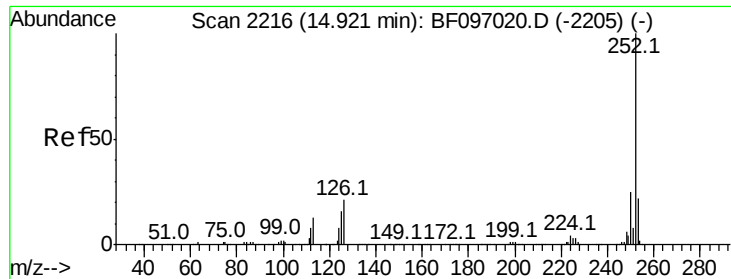
7/31/2017 6:53:06 PM



#88
Benzo(k)fluoranthene
Concen: 4.837 ng m
RT: 14.63 min Scan# 2166
Delta R.T. -0.02 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	13.5	13.1	19.7



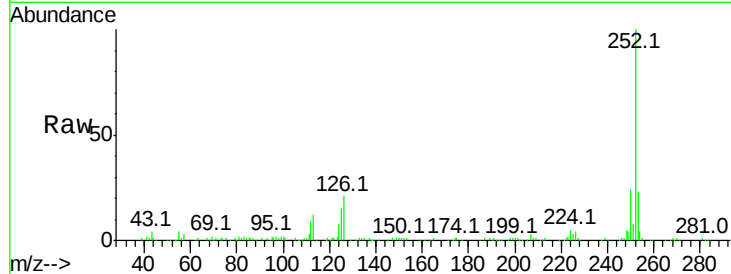


#89
Benzo(a)pyrene
Concen: 15.168 ng
RT: 14.91 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

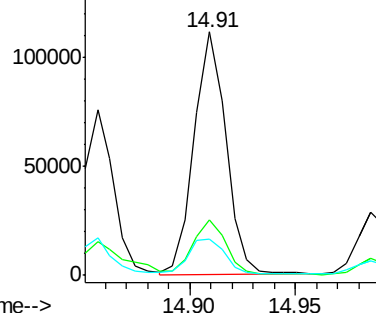
Instrument :
BNA_F
ClientSampleId :
E2-HS5-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	14.7	11.0	16.4

Manual Integrations
APPROVED

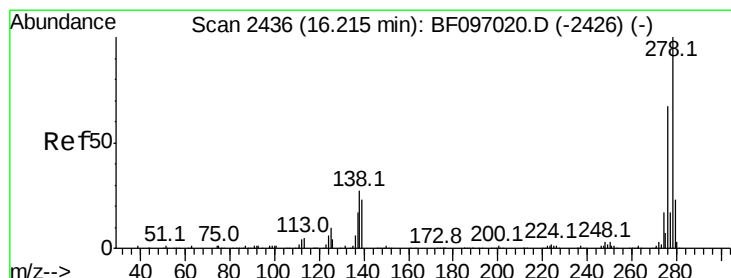
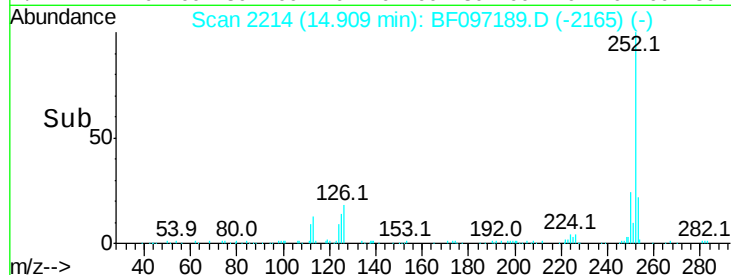


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



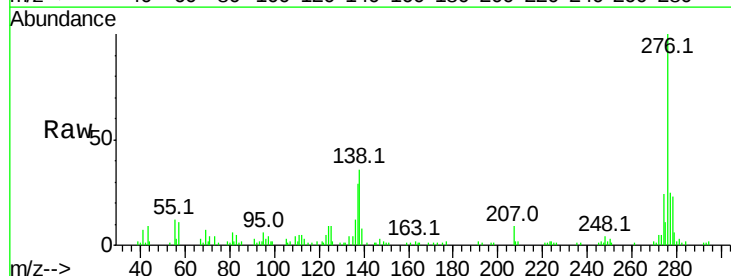
Sohil

7/31/2017 6:53:06 PM

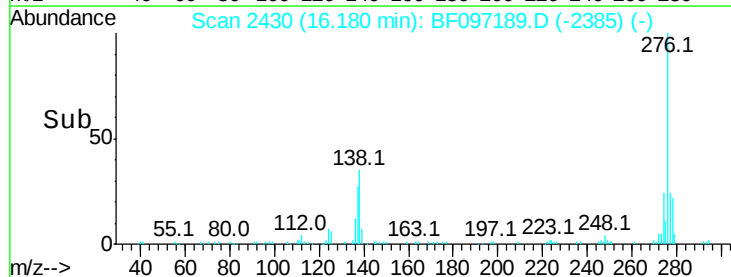
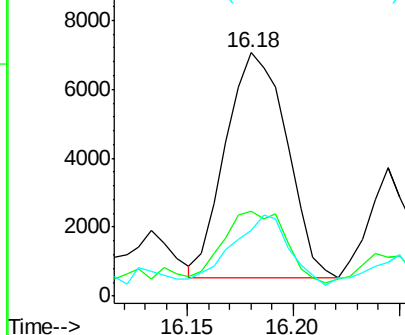


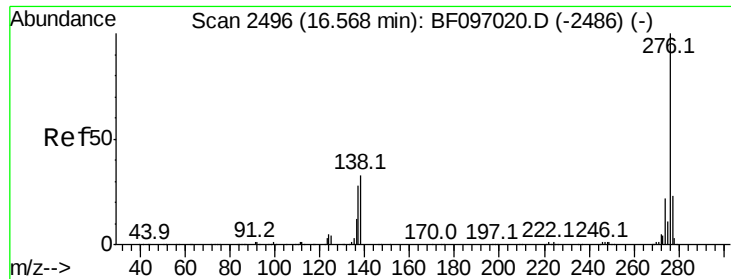
#90
Dibenzo(a,h)anthracene
Concen: 2.081 ng
RT: 16.18 min Scan# 2430
Delta R.T. -0.04 min
Lab File: BF097189.D
Acq: 29 Jul 2017 8:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	35.0	16.6	24.8#
279	27.2	19.3	28.9



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



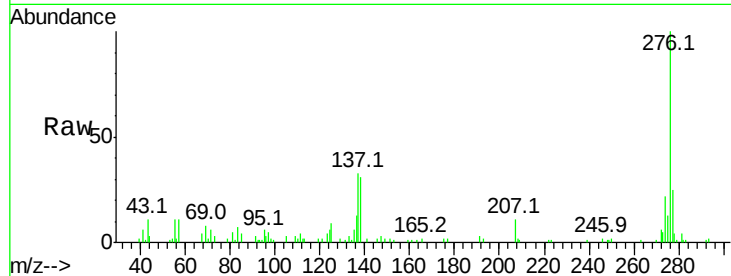


#91
 Benzo(a,h,i)perylene
 Concen: 7.599 ng
 RT: 16.54 min Scan# 2492
 Delta R.T. -0.02 min
 Lab File: BF097189.D
 Acq: 29 Jul 2017 8:10

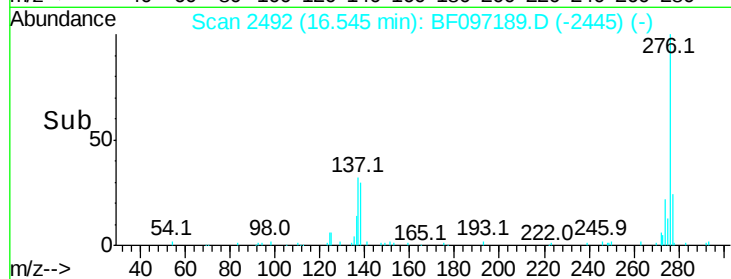
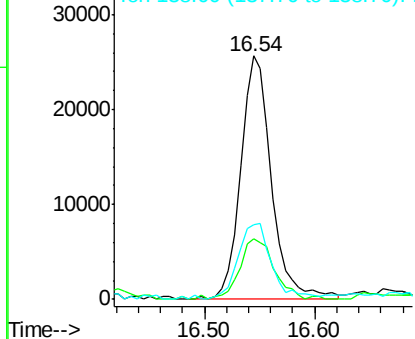
Instrument :
 BNA_F
 ClientSampleId :
 E2-HS5-ESW

Tot Ion:	276	Resp:	50144
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.6	28.0
138	30.9	25.4	38.0

Manual Integrations
 APPROVED



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E



Sohil

7/31/2017 6:53:06 PM