

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080816\
 Data File : BF089686.D
 Acq On : 9 Aug 2016 7:03
 Operator : UM/SJ
 Sample : H4288-02DL 25X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

Manual Integrations
 APPROVED

sohil
 8/9/2016 6:19:01 PM

Quant Time: Aug 09 07:47:56 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF080416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 05 01:39:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	38410	20.00	ng	-0.03
21) Naphthalene-d8	9.45	136	176110	20.00	ng	-0.02
38) Acenaphthene-d10	12.27	164	84682	20.00	ng	-0.02
63) Phenanthrene-d10	14.66	188	149084	20.00	ng	-0.03
75) Chrysene-d12	18.37	240	94628	20.00	ng	-0.02
86) Perylene-d12	20.02	264	91198	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	6085	2.66	ng	0.05
7) Phenol-d6	7.02	99	12503m	4.02	ng	0.03
23) Nitrobenzene-d5	8.36	82	7038	2.21	ng	0.00
41) 2,4,6-Tribromophenol	13.57	330	2166	3.10	ng	-0.02
44) 2-Fluorobiphenyl	11.22	172	21297	3.27	ng	-0.03
78) Terphenyl-d14	17.03	244	15285	3.19	ng	-0.02
Target Compounds						Qvalue
51) Acenaphthene	12.32	154	25112	4.61	ng	99
54) Dibenzofuran	12.62	168	37362	4.99	ng	96
57) Fluorene	13.15	166	47023	7.35	ng	97
70) Phenanthrene	14.70	178	350494	43.24	ng	98
71) Anthracene	14.79	178	151001	17.37	ng	99
72) Carbazole	15.10	167	22058	3.05	ng	99
74) Fluoranthene	16.47	202	297210	35.67	ng	100
77) Pyrene	16.77	202	236237	28.24	ng	# 93
80) Benzo(a)anthracene	18.35	228	93712	17.24	ng	99
82) Chrysene	18.40	228	70453	12.35	ng	97
85) Indeno(1,2,3-cd)pyrene	21.20	276	34061	7.86	ng	# 91
87) Benzo(b)fluoranthene	19.62	252	77442m	13.81	ng	
88) Benzo(k)fluoranthene	19.63	252	41020m	7.25	ng	
89) Benzo(a)pyrene	19.97	252	69427m	13.22	ng	
91) Benzo(g,h,i)perylene	21.53	276	34050	6.78	ng	97

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

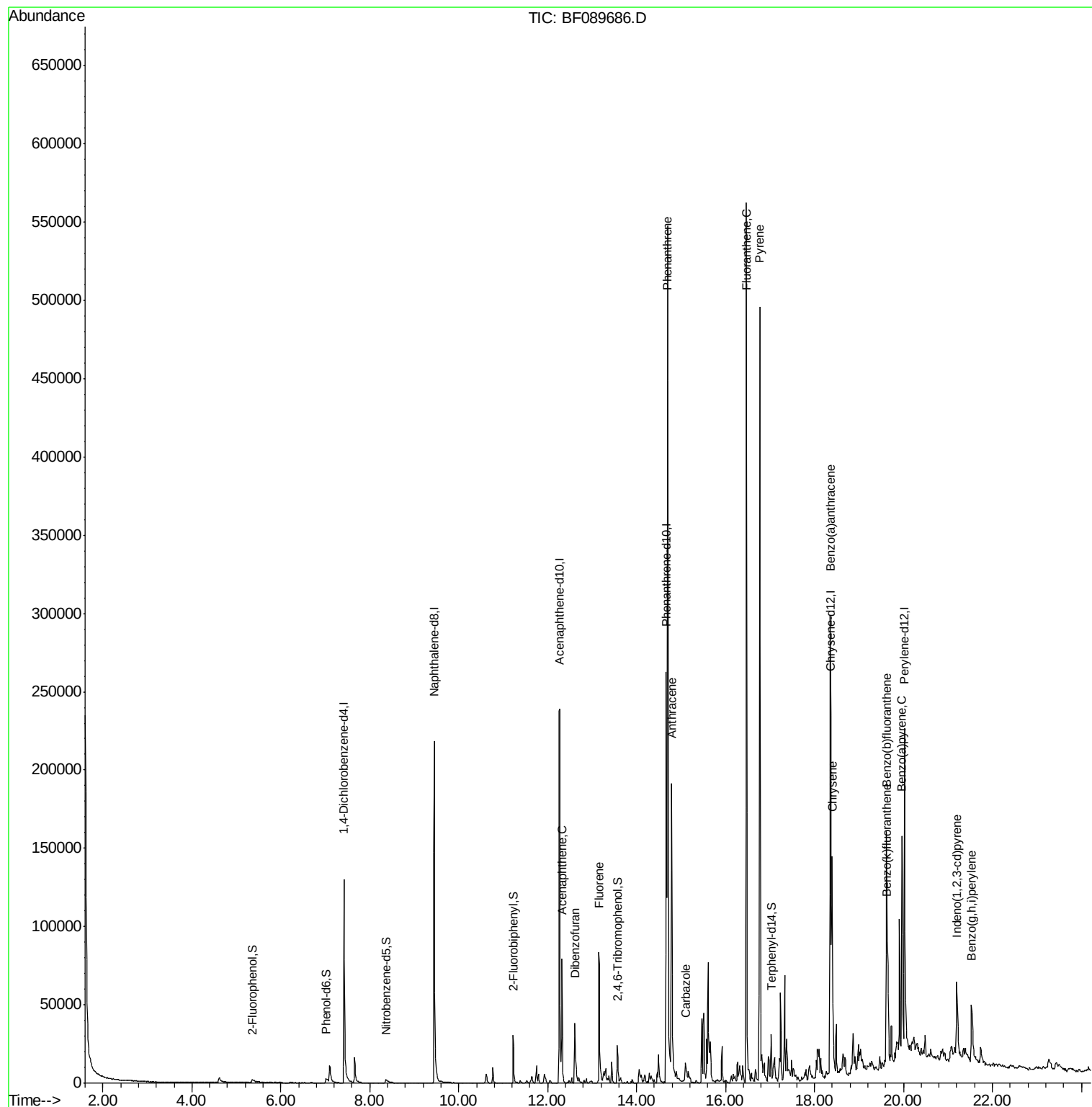
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080816\
Data File : BF089686.D
Acq On : 9 Aug 2016 7:03
Operator : UM/SJ
Sample : H4288-02DL 25X
Misc :
ALS Vial : 27 Sample Multiplier: 1

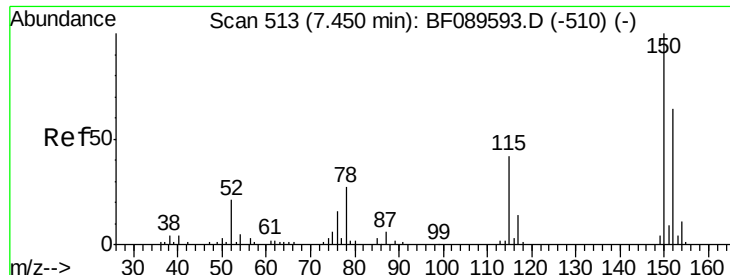
Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

Manual Integrations
APPROVED

sohil
8/9/2016 6:19:01 PM

Quant Time: Aug 09 07:47:56 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF080416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 05 01:39:23 2016
Response via : Initial Calibration





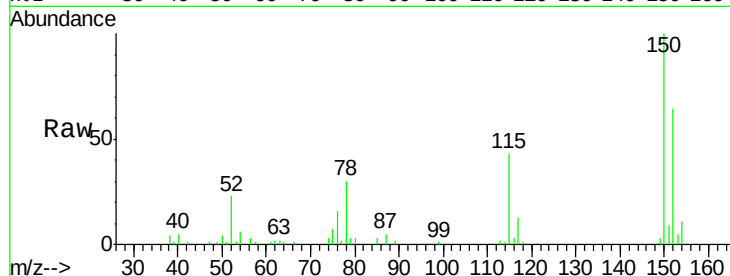
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.42 min Scan# 510
 Delta R.T. -0.03 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

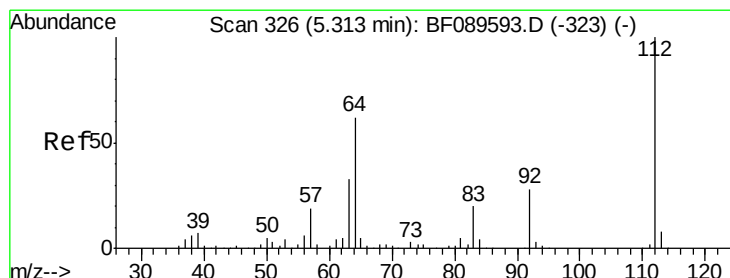
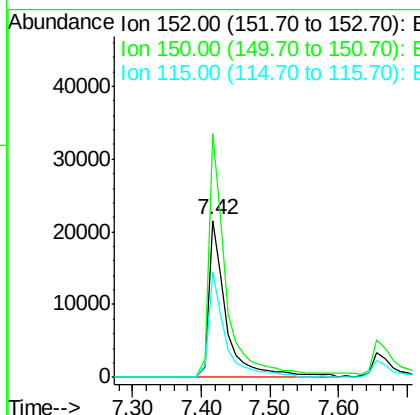
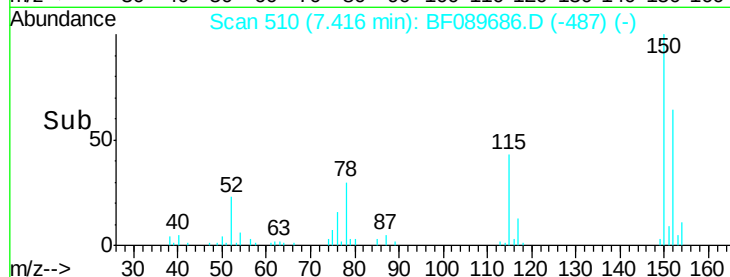
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.3	125.5	188.3
115	67.4	52.0	78.0

Manual Integrations
 APPROVED

sohil
 8/9/2016 6:19:01 PM

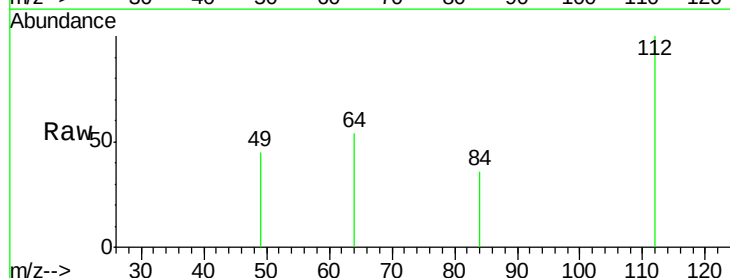


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

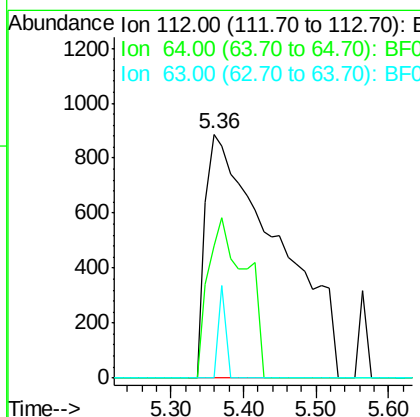
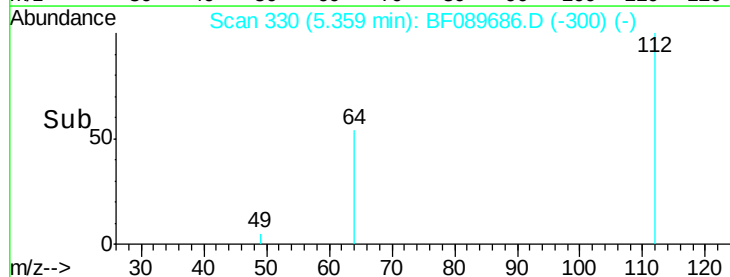


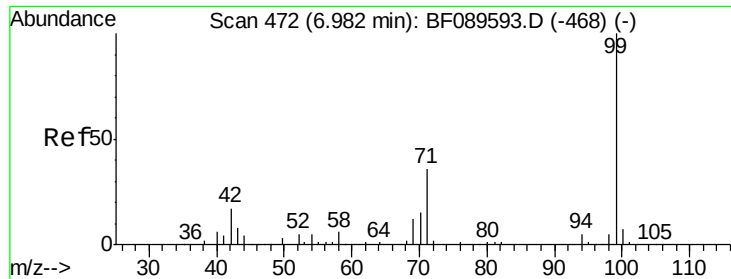
#5
 2-Fluorophenol
 Concen: 2.66 ng
 RT: 5.36 min Scan# 330
 Delta R.T. 0.05 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	49.9	74.9
63	0.0	26.1	39.1



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



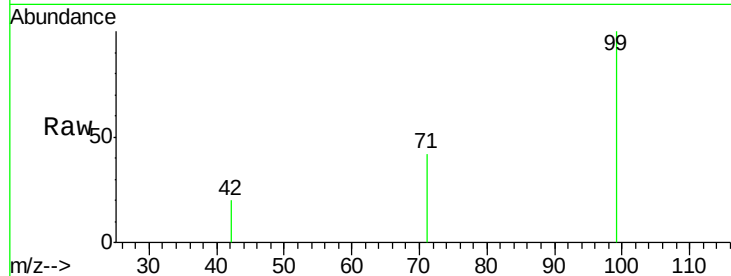


#7

Phenol-d6

Concen: 4.02 ng m
RT: 7.02 min Scan# 475
Delta R.T. 0.03 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

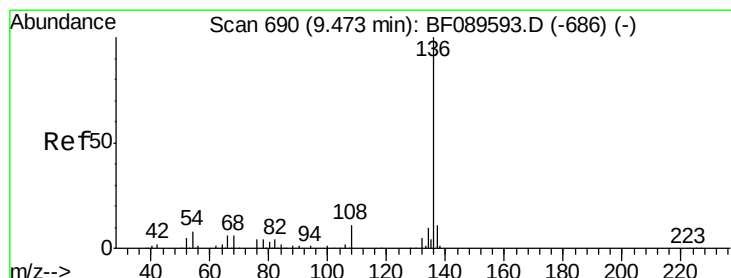
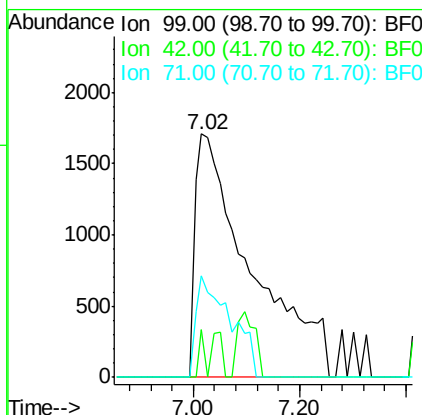
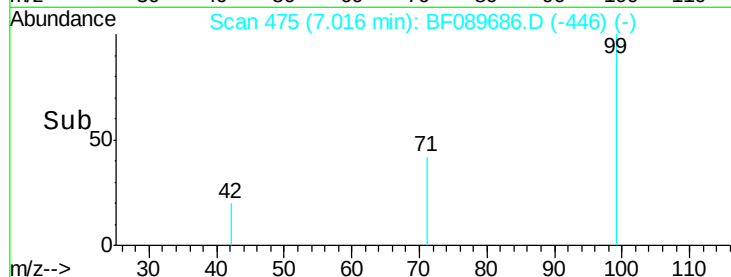
Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL



Tgt Ion: 99 Resp: 12503
Ion Ratio Lower Upper
99 100
42 19.8 13.7 20.5
71 41.6 29.0 43.4

Manual Integrations
APPROVED

sohil
8/9/2016 6:19:01 PM

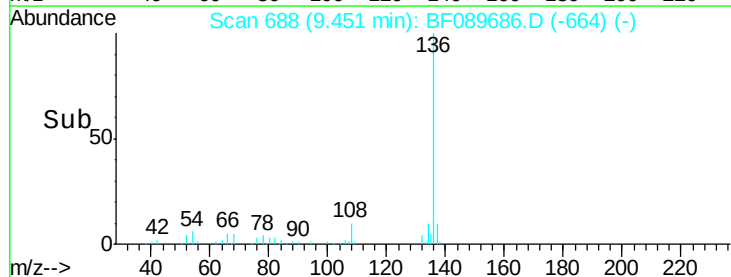
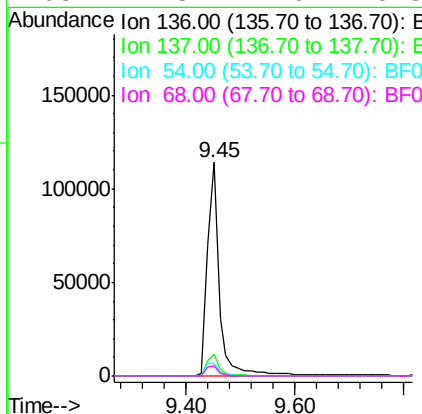
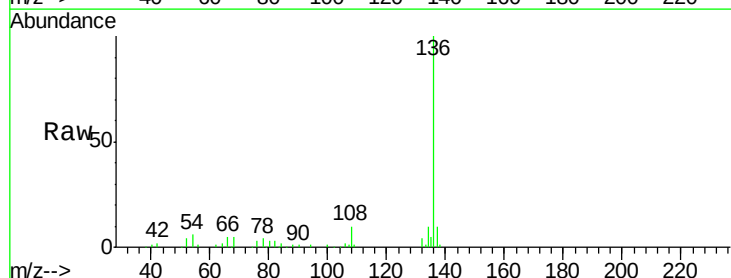


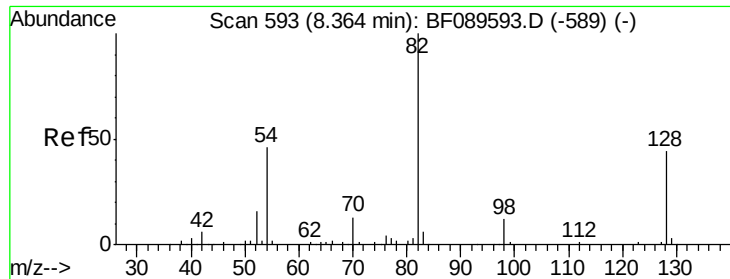
#21

Naphthalene-d8

Concen: 20.00 ng
RT: 9.45 min Scan# 688
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Tgt Ion: 136 Resp: 176110
Ion Ratio Lower Upper
136 100
137 10.4 8.6 12.8
54 6.2 6.0 9.0
68 4.8 4.6 6.8





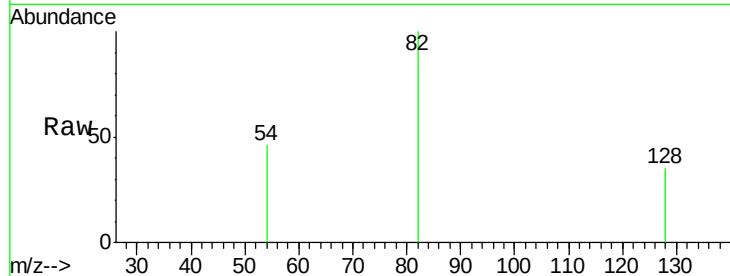
#23
 Nitrobenzene-d5
 Concen: 2.21 ng
 RT: 8.36 min Scan# 593
 Delta R.T. 0.00 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

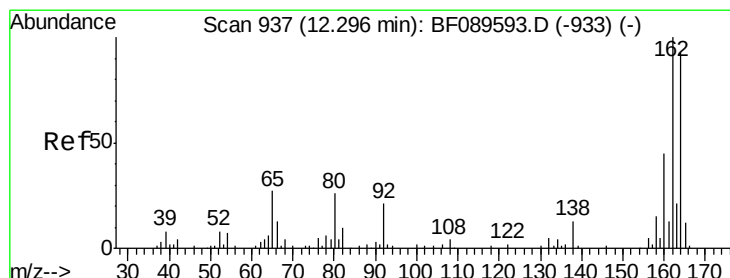
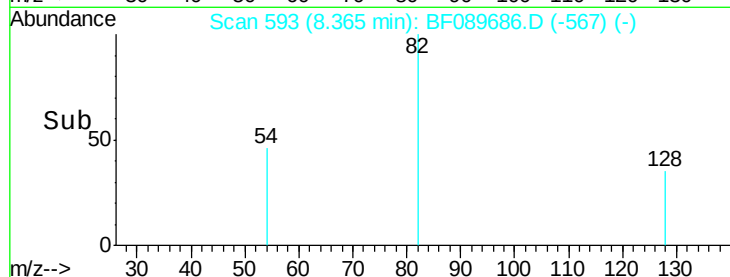
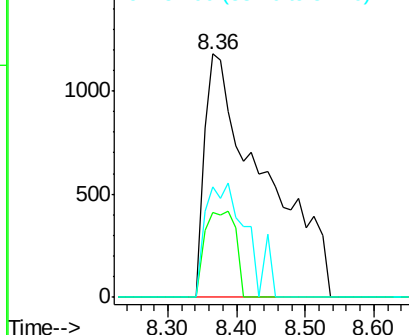
Tgt Ion	Ratio	Lower	Upper
82	100		
128	34.8	35.4	53.0#
54	45.6	36.4	54.6

Manual Integrations
 APPROVED

sohil
 8/9/2016 6:19:01 PM



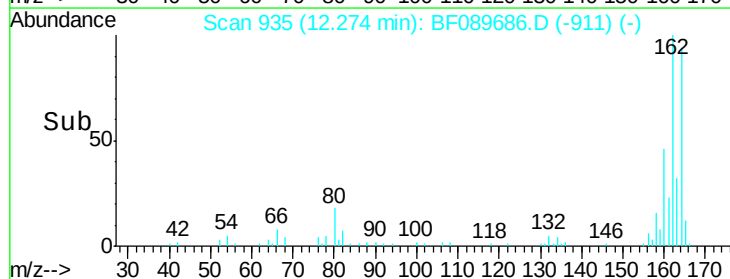
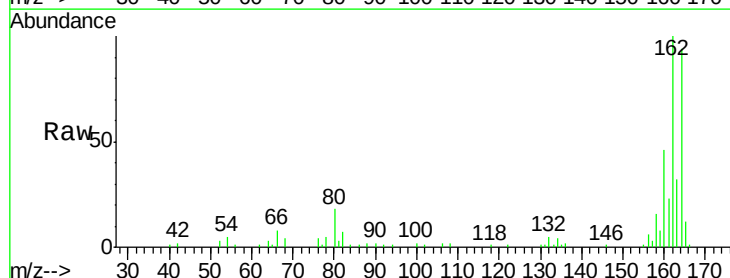
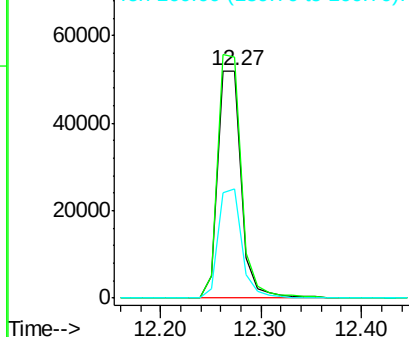
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

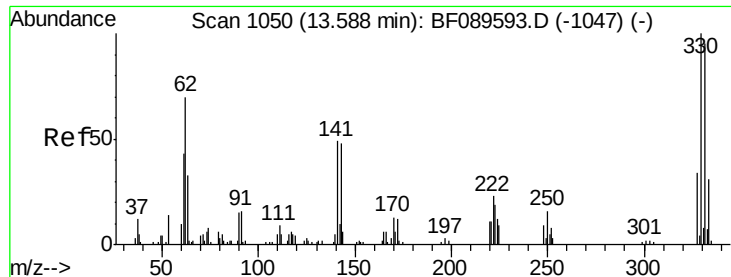


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.27 min Scan# 935
 Delta R.T. -0.02 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.8	85.7	128.5
160	48.2	38.2	57.4

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





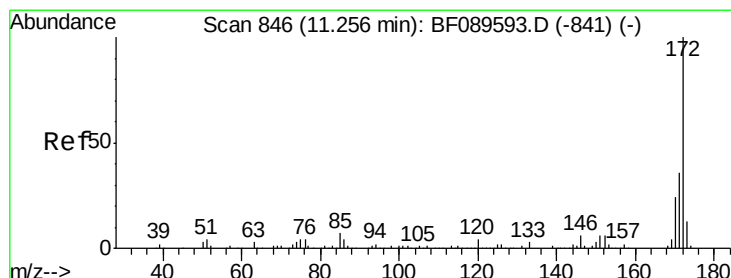
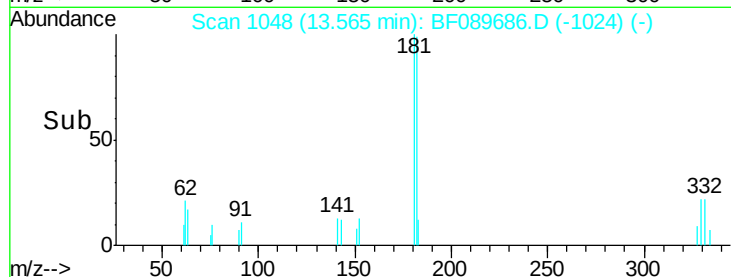
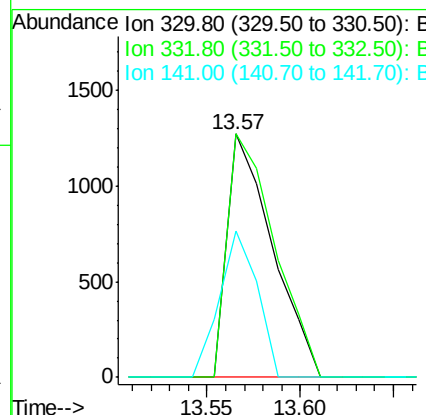
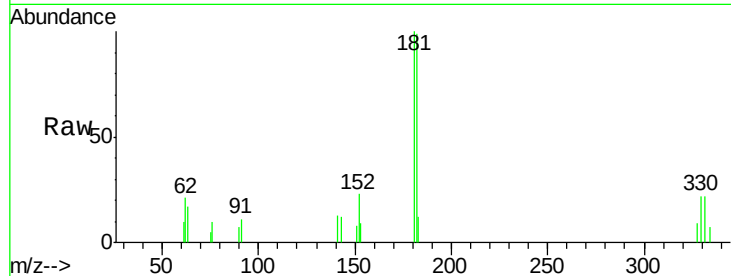
#41
 2,4,6-Tribromophenol
 Concen: 3.10 ng
 RT: 13.57 min Scan# 1048
 Delta R.T. -0.02 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	104.4	77.0	115.6
141	49.8	38.6	57.8

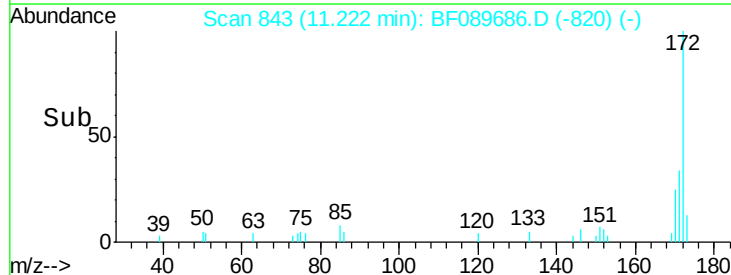
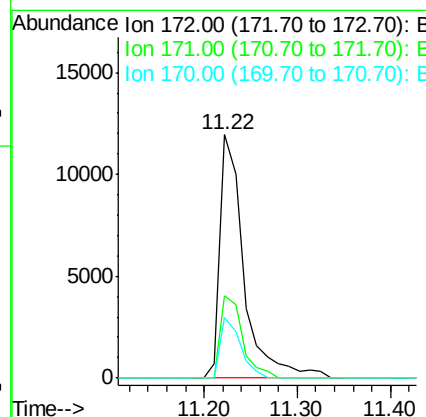
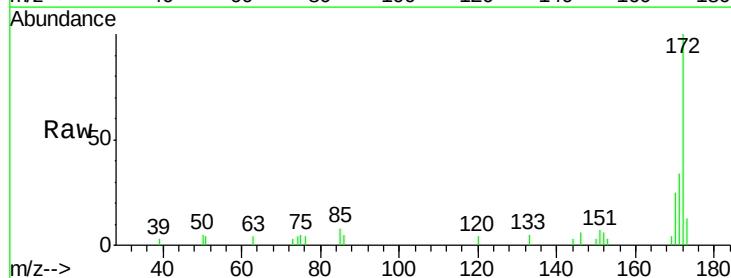
Manual Integrations
 APPROVED

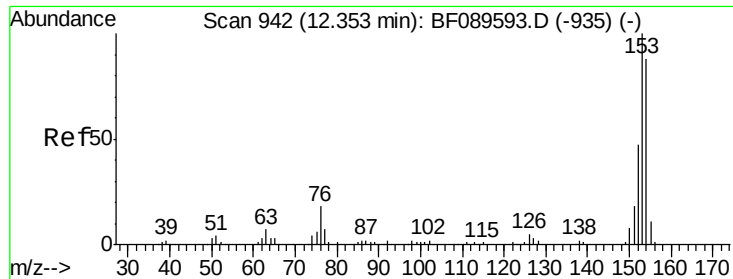
sohil
 8/9/2016 6:19:01 PM



#44
 2-Fluorobiphenyl
 Concen: 3.27 ng
 RT: 11.22 min Scan# 843
 Delta R.T. -0.03 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.6	28.9	43.3
170	25.1	19.0	28.6





#51

Acenaphthene

Concen: 4.61 ng

RT: 12.32 min Scan# 939

Delta R.T. -0.03 min

Lab File: BF089686.D

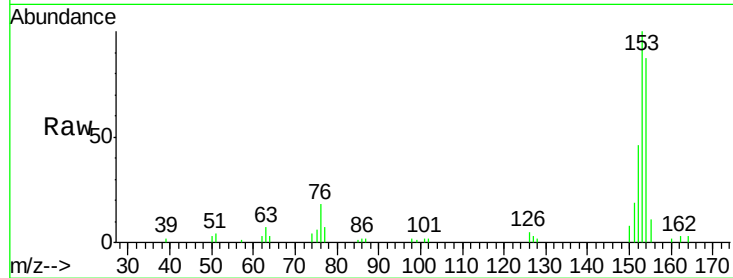
Acq: 9 Aug 2016 7:03

Instrument :

BNA_F

ClientSampleId :

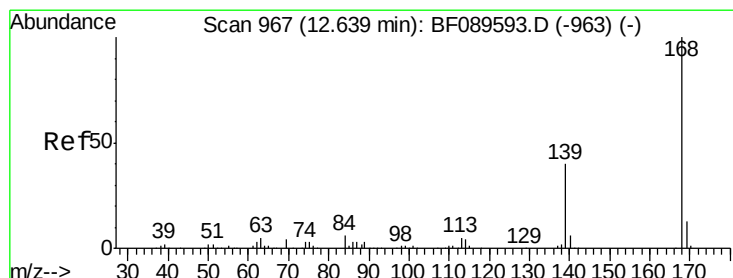
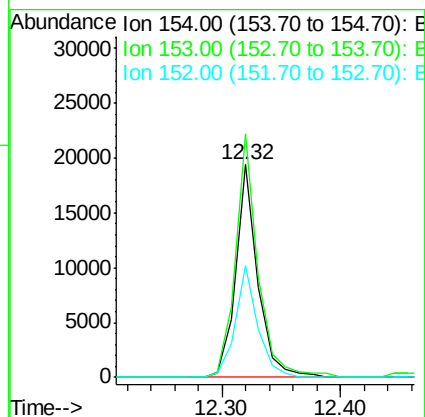
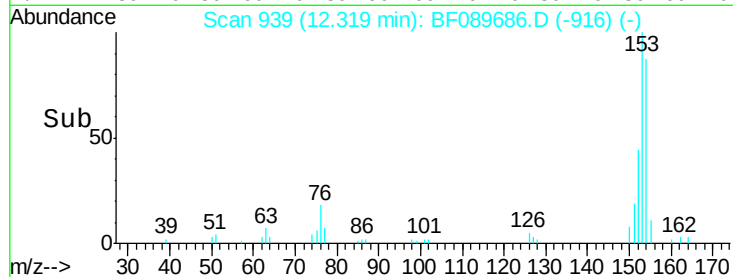
SB-64-0.5-1.5DL



Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.7	91.1	136.7
152	52.6	43.5	65.3

Manual Integrations
APPROVED

sohil
8/9/2016 6:19:01 PM



#54

Dibenzofuran

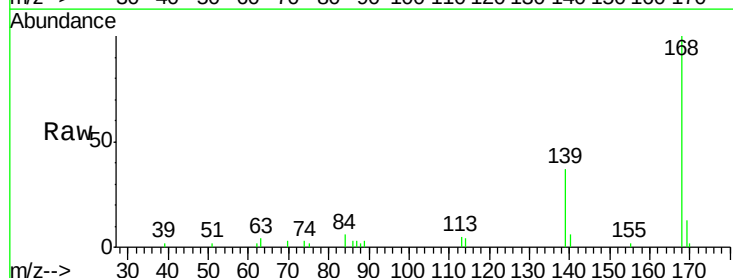
Concen: 4.99 ng

RT: 12.62 min Scan# 965

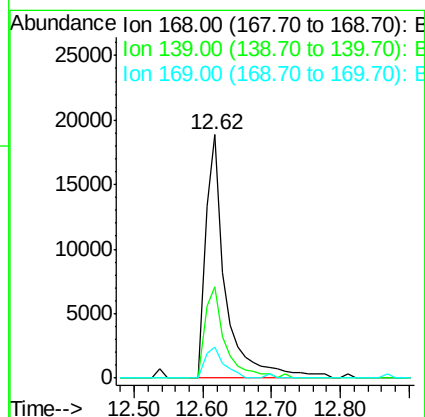
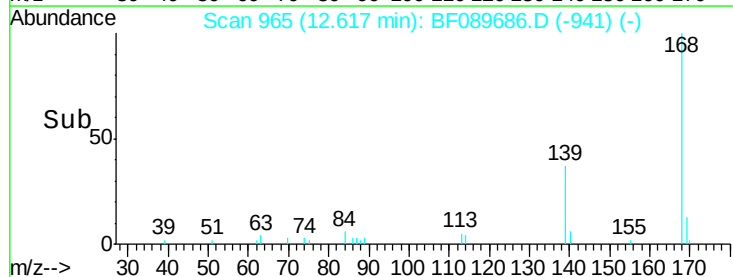
Delta R.T. -0.02 min

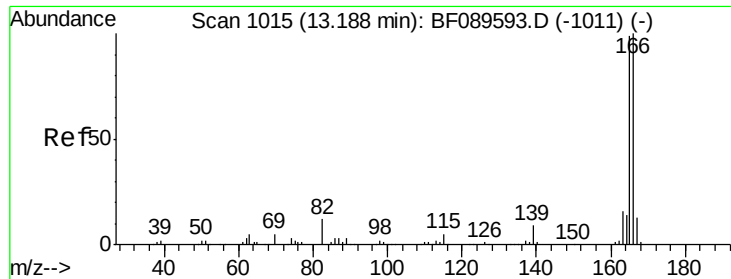
Lab File: BF089686.D

Acq: 9 Aug 2016 7:03



Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.3	32.3	48.5
169	12.9	10.6	15.8





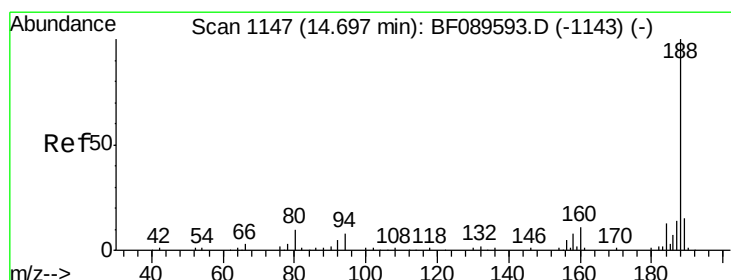
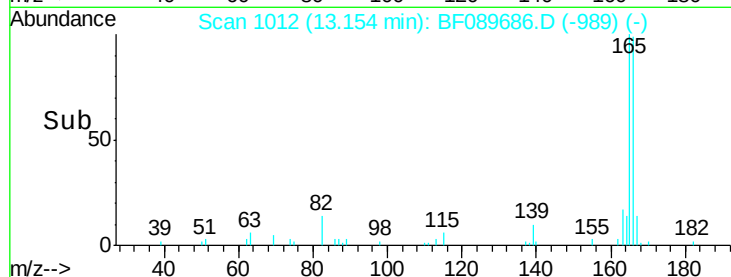
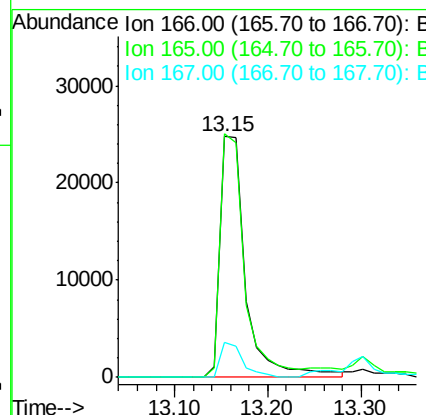
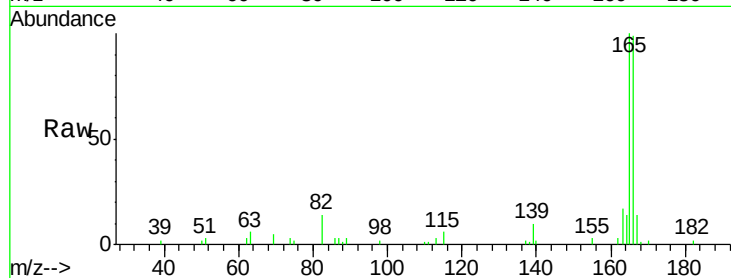
#57
 Fluorene
 Concen: 7.35 ng
 RT: 13.15 min Scan# 1012
 Delta R.T. -0.03 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.0	78.9	118.3
167	14.6	10.4	15.6

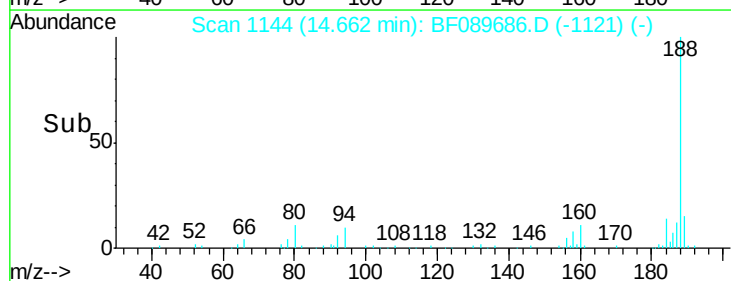
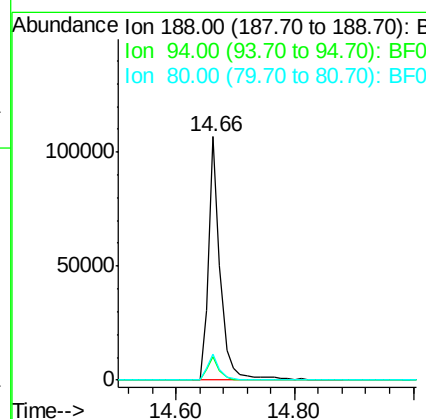
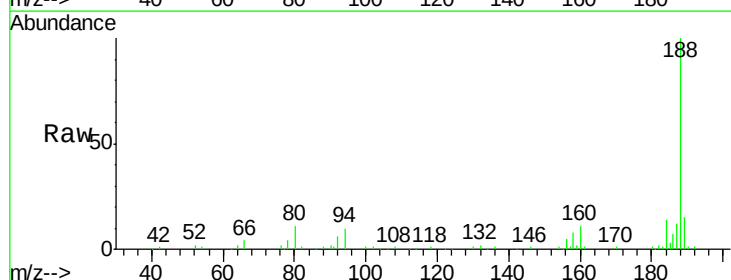
Manual Integrations
 APPROVED

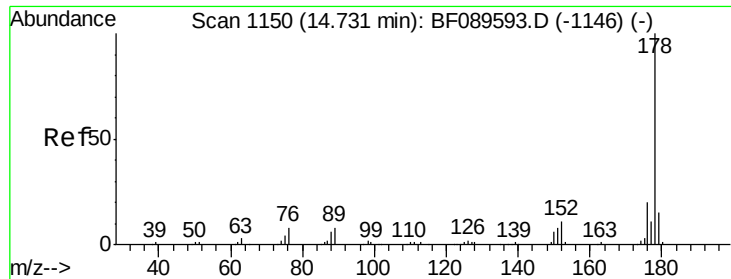
sohil
 8/9/2016 6:19:01 PM



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.66 min Scan# 1144
 Delta R.T. -0.03 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	6.5	9.7#
80	10.9	8.0	12.0





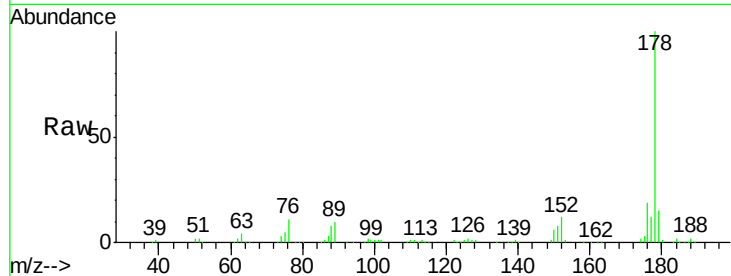
#70
Phenanthrene
Concen: 43.24 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.03 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

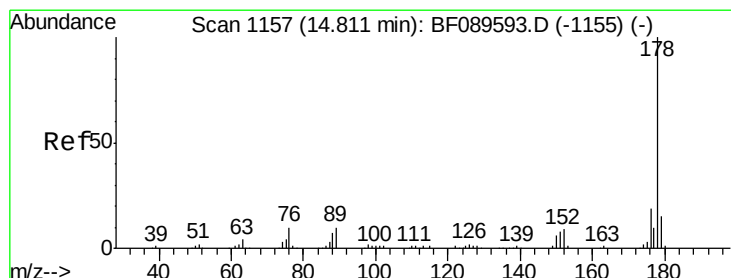
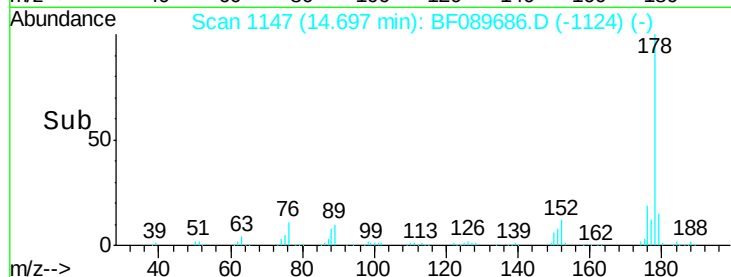
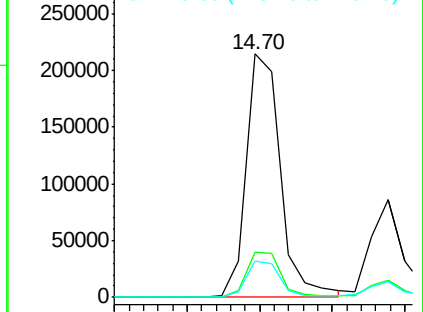
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.7	23.5
179	14.9	12.2	18.2

Manual Integrations
APPROVED

sohil
8/9/2016 6:19:01 PM



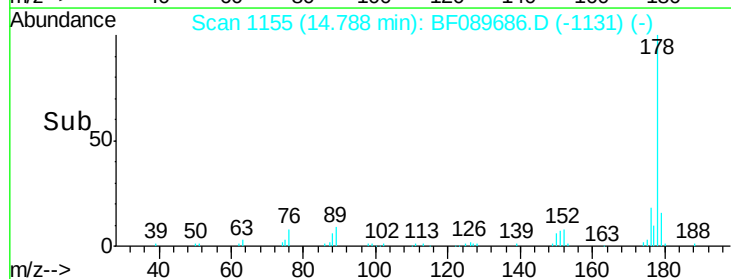
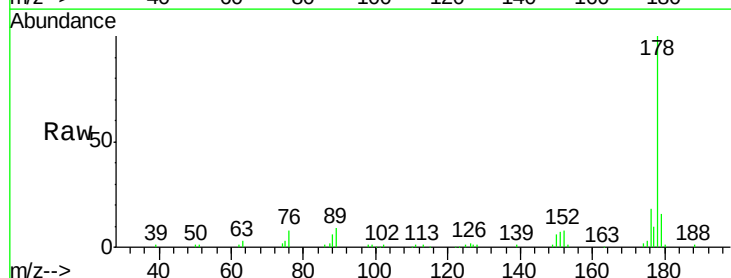
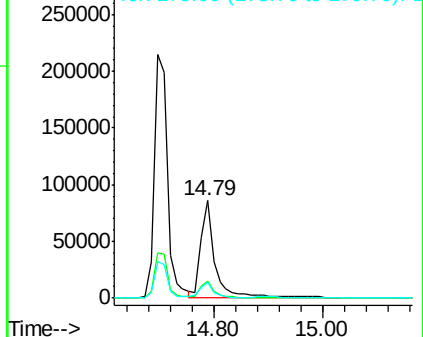
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

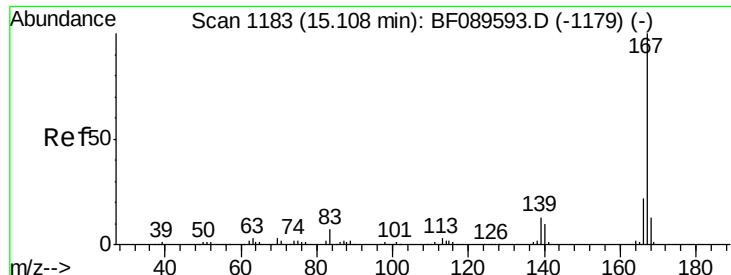


#71
Anthracene
Concen: 17.37 ng
RT: 14.79 min Scan# 1155
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.0	22.4
179	16.0	12.4	18.6

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





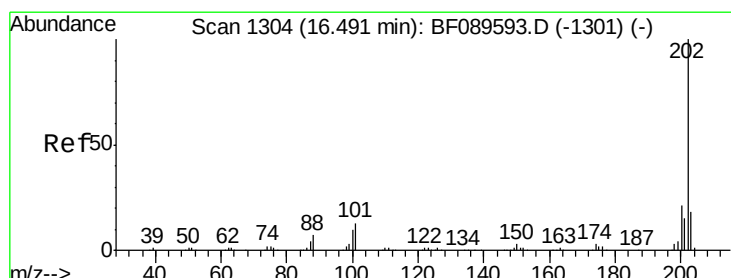
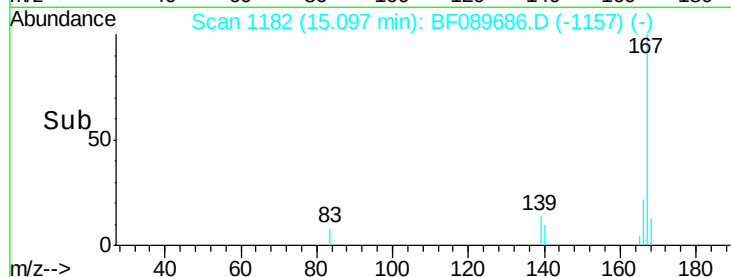
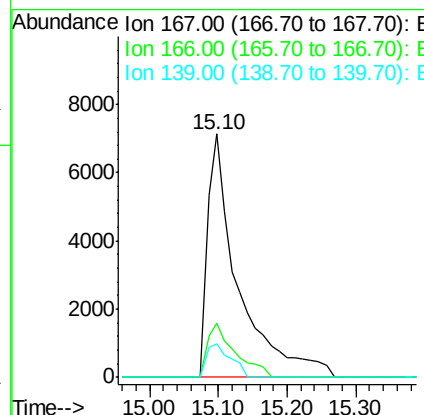
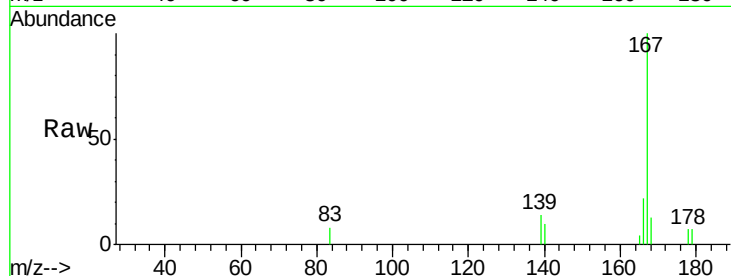
#72
 Carbazole
 Concen: 3.05 ng
 RT: 15.10 min Scan# 1182
 Delta R.T. -0.01 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	13.8	10.4	15.6

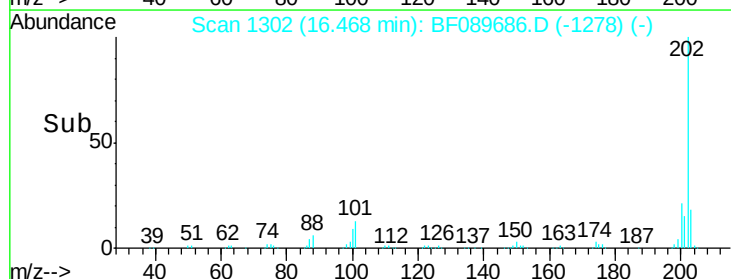
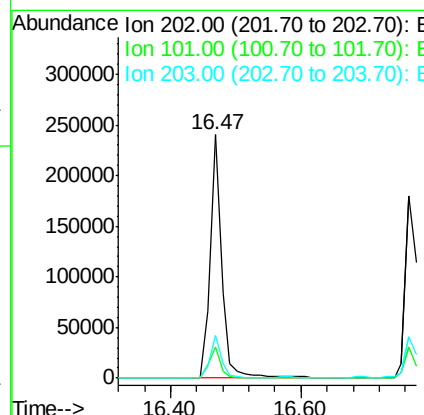
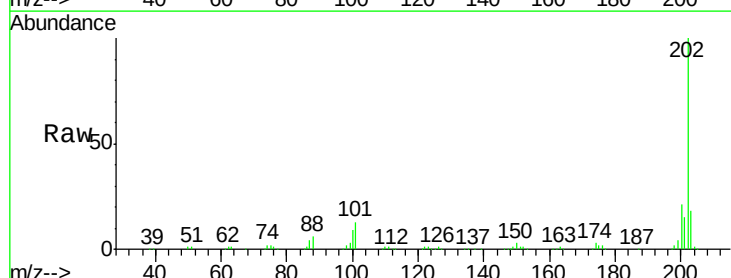
Manual Integrations
 APPROVED

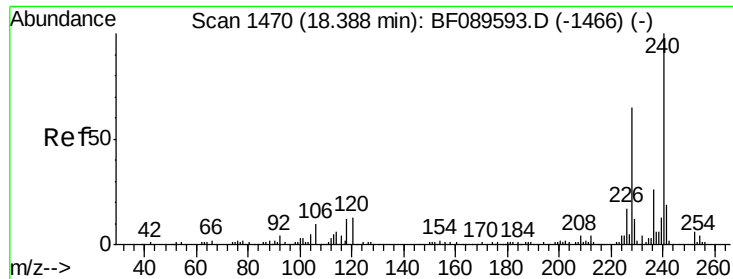
sohil
 8/9/2016 6:19:01 PM



#74
 Fluoranthene
 Concen: 35.67 ng
 RT: 16.47 min Scan# 1302
 Delta R.T. -0.02 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	32.7
203	17.6	0.0	37.8





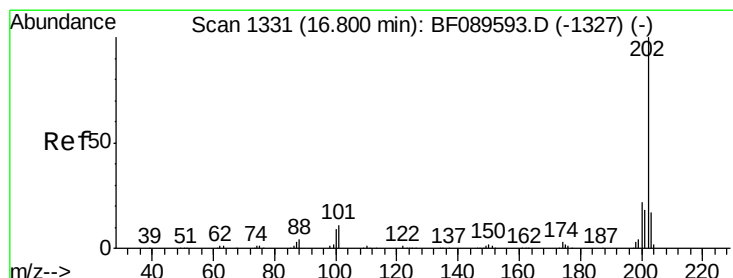
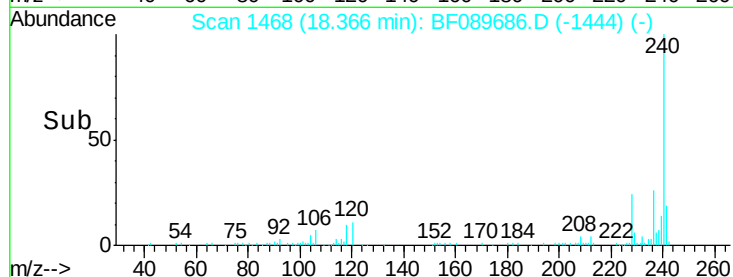
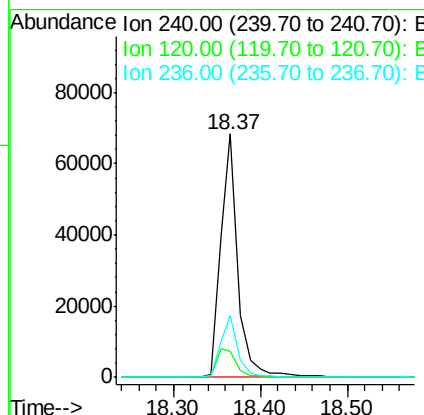
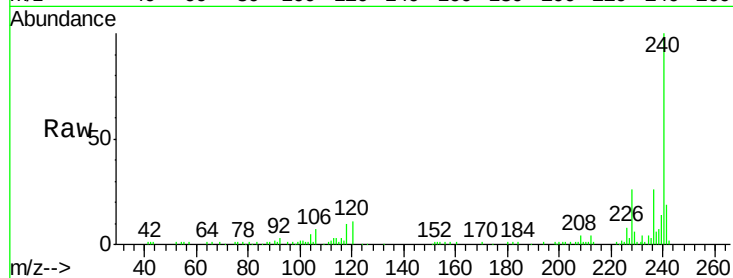
#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.37 min Scan# 1468
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.5	10.6	15.8#
236	25.6	20.6	30.8

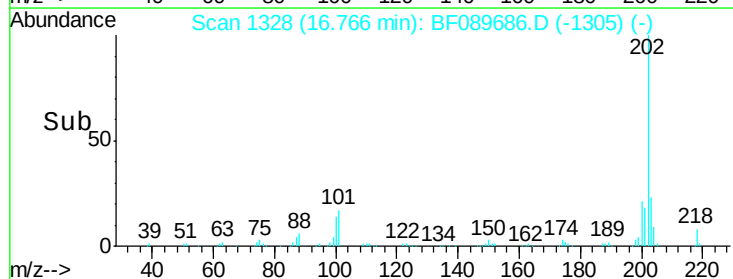
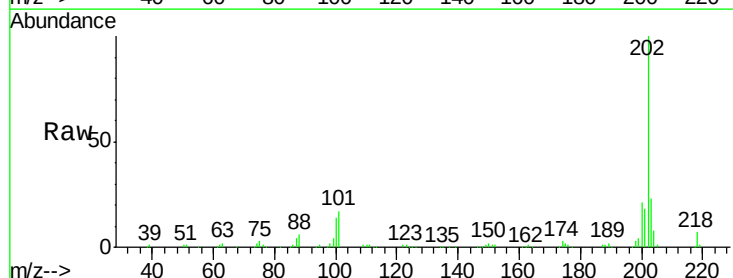
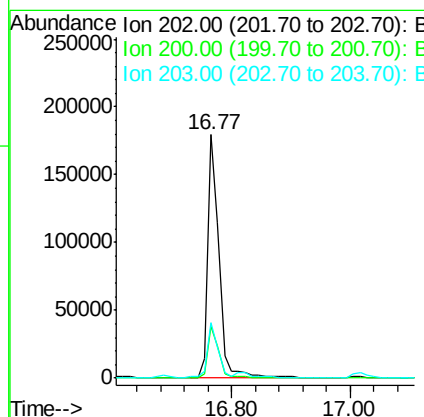
Manual Integrations
APPROVED

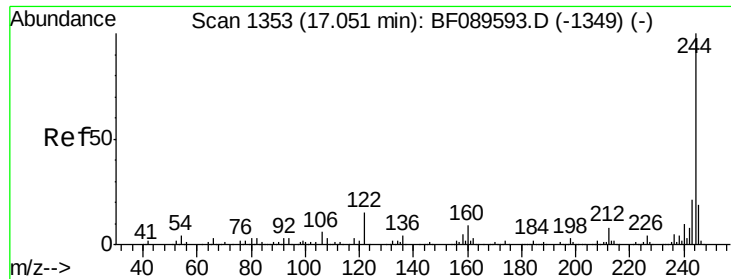
sohil
8/9/2016 6:19:01 PM



#77
Pyrene
Concen: 28.24 ng
RT: 16.77 min Scan# 1328
Delta R.T. -0.03 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.0
203	22.9	13.6	20.4#





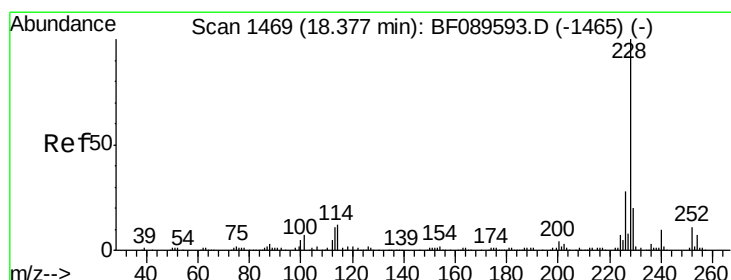
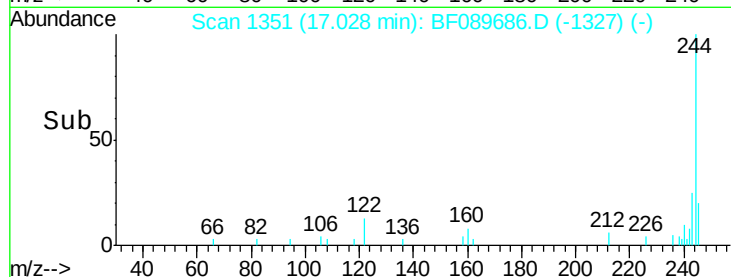
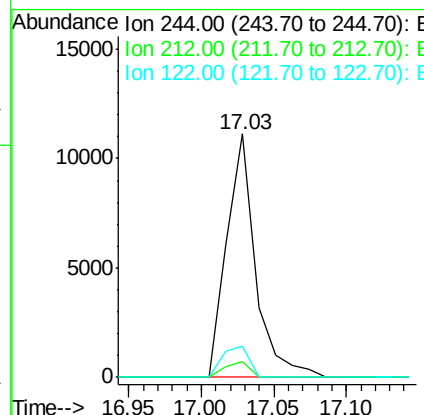
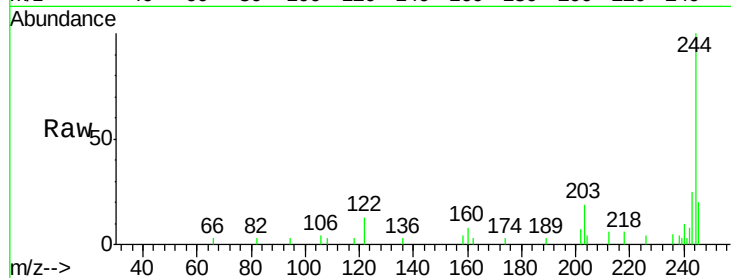
#78
 Terphenyl-d14
 Concen: 3.19 ng
 RT: 17.03 min Scan# 1351
 Delta R.T. -0.02 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	15285		
212	6.4	6.4	9.6#	
122	12.8	12.2	18.2	

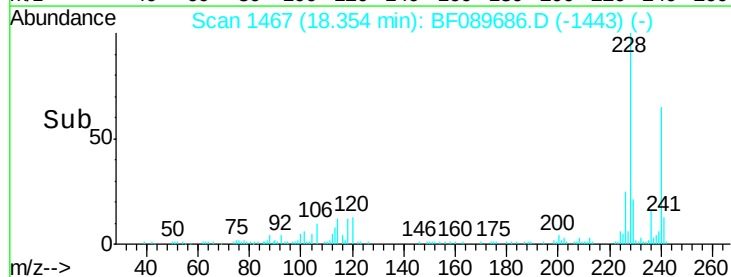
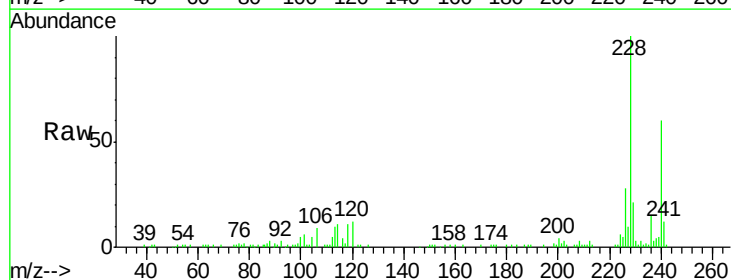
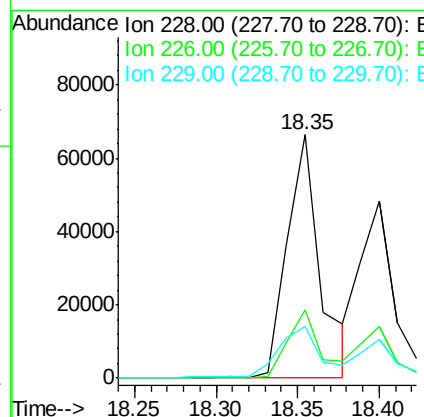
Manual Integrations
 APPROVED

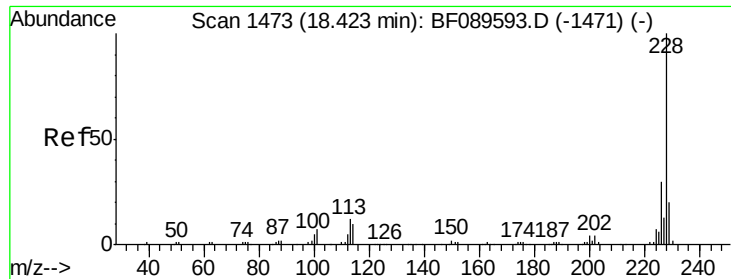
sohil
 8/9/2016 6:19:01 PM



#80
 Benzo(a)anthracene
 Concen: 17.24 ng
 RT: 18.35 min Scan# 1467
 Delta R.T. -0.02 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	93712		
226	27.8	22.3	33.5	
229	21.0	15.9	23.9	





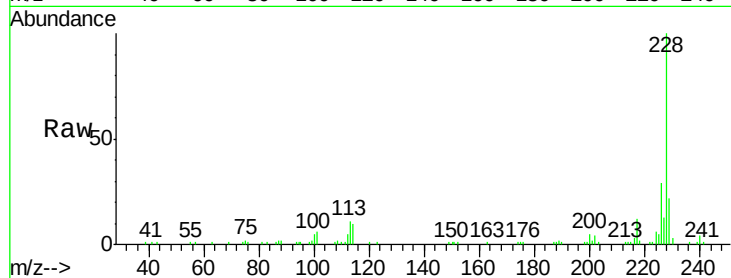
#82
Chrysene
Concen: 12.35 ng
RT: 18.40 min Scan# 1471
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

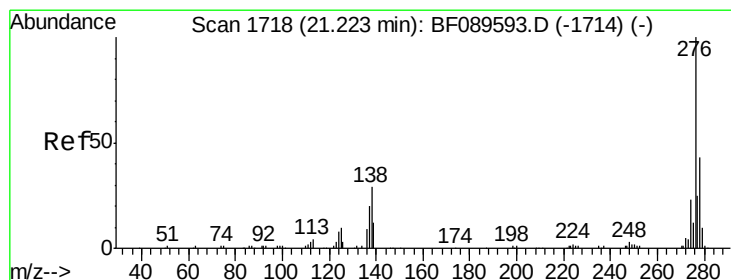
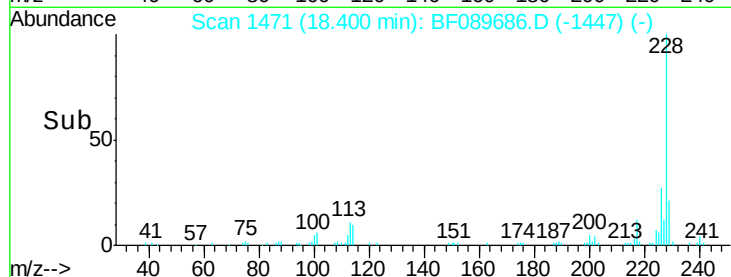
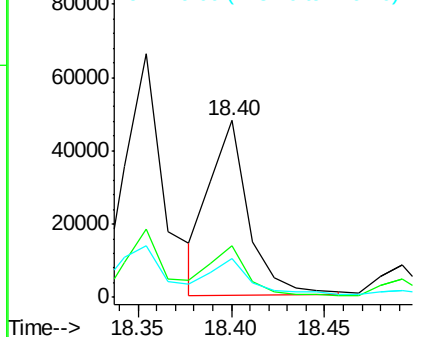
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	24.2	36.2
229	21.9	16.0	24.0

Manual Integrations
APPROVED

sohil
8/9/2016 6:19:01 PM



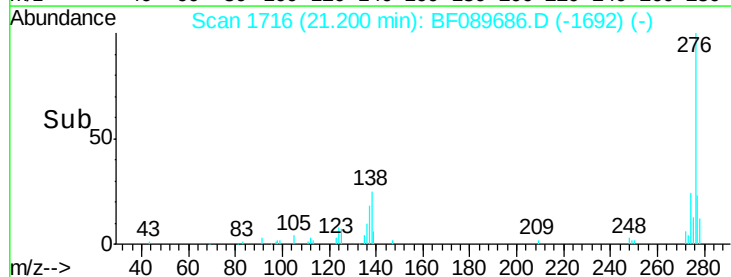
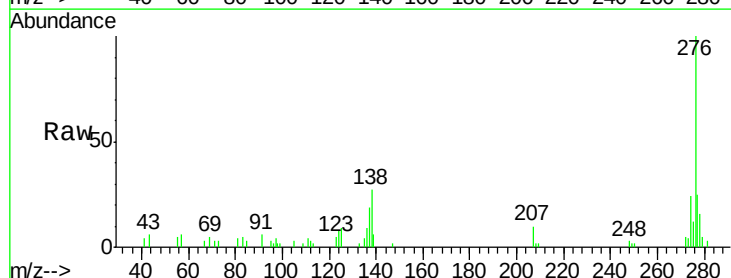
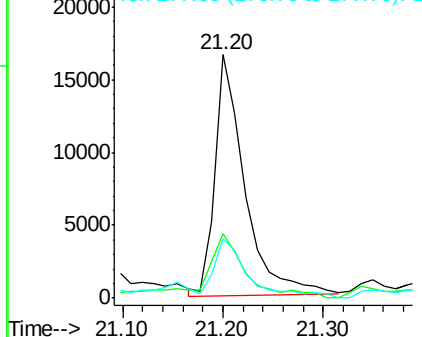
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

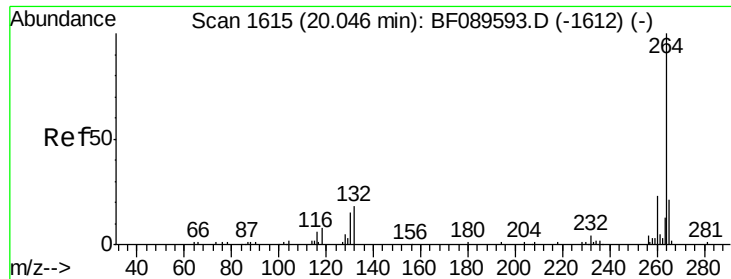


#85
Indeno(1,2,3-cd)pyrene
Concen: 7.86 ng
RT: 21.20 min Scan# 1716
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
276	100		
138	36.7	23.8	35.8#
277	28.1	20.3	30.5

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





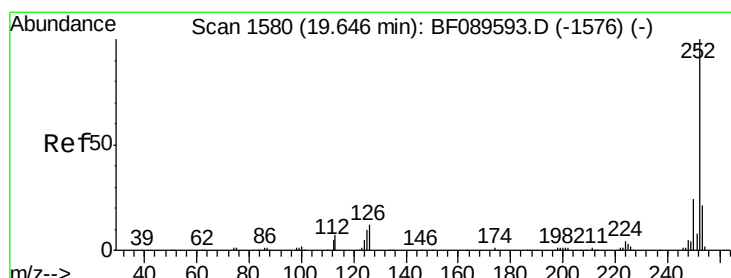
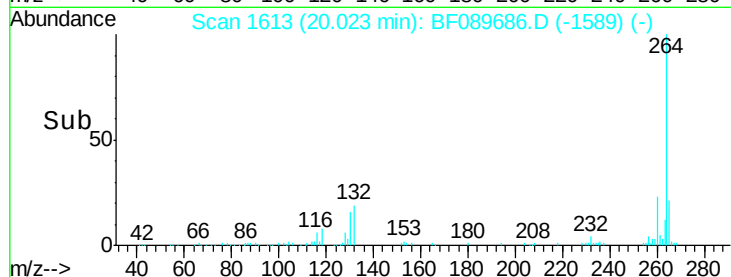
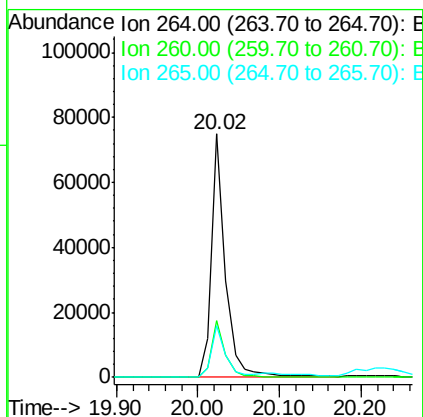
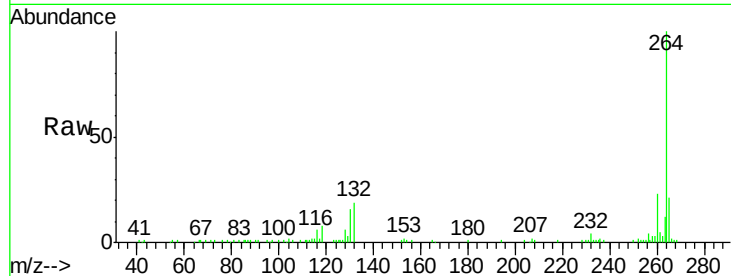
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.02 min Scan# 1613
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	21.2	16.5	24.7

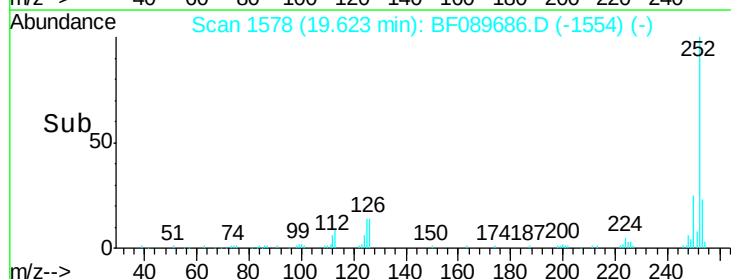
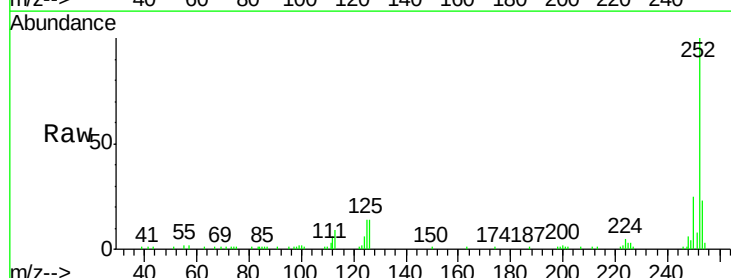
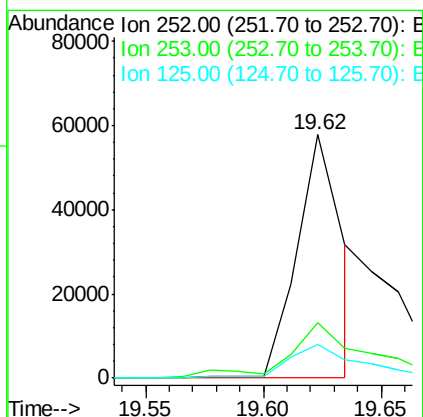
Manual Integrations
APPROVED

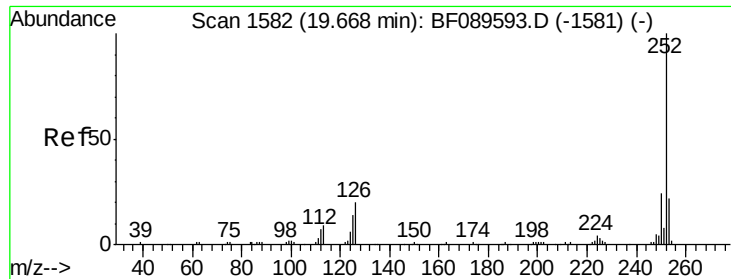
sohil
8/9/2016 6:19:01 PM



#87
Benzo(b)fluoranthene
Concen: 13.81 ng m
RT: 19.62 min Scan# 1578
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	13.7	7.8	11.8#





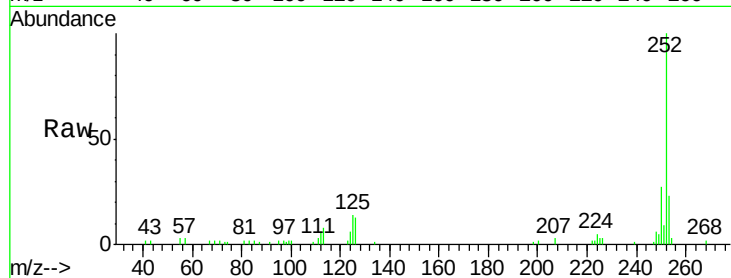
#88
Benzo(k)fluoranthene
Concen: 7.25 ng m
RT: 19.63 min Scan# 1579
Delta R.T. -0.03 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

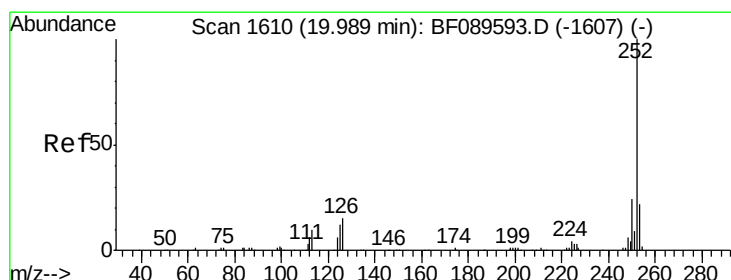
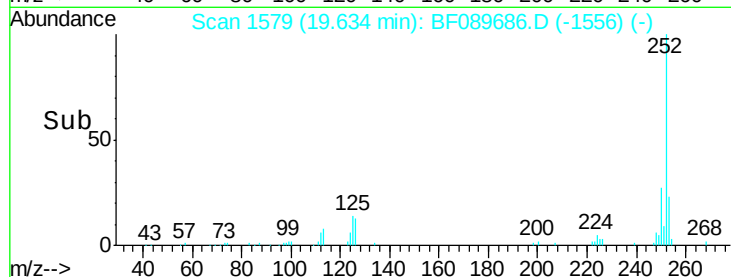
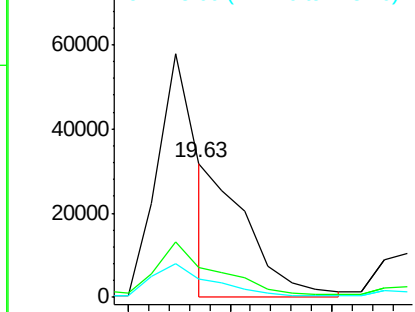
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.3	25.9
125	13.5	11.0	16.6

Manual Integrations
APPROVED

sohil
8/9/2016 6:19:01 PM

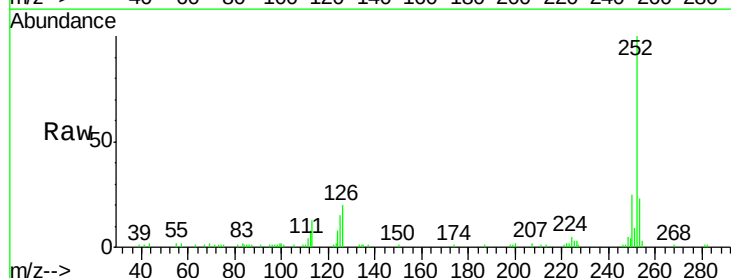


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

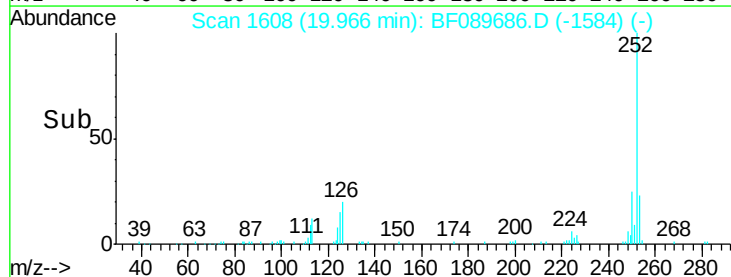
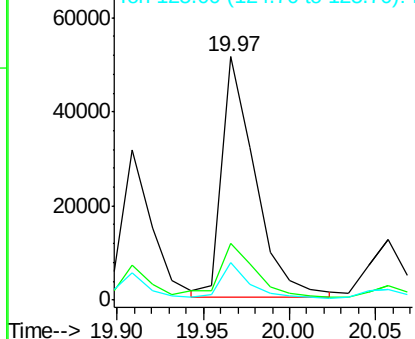


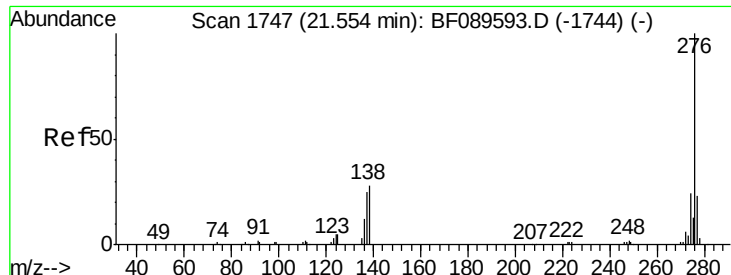
#89
Benzo(a)pyrene
Concen: 13.22 ng m
RT: 19.97 min Scan# 1608
Delta R.T. -0.02 min
Lab File: BF089686.D
Acq: 9 Aug 2016 7:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.4	26.0
125	15.2	9.9	14.9#



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





#91
 Benzo(g,h,i)perylene
 Concen: 6.78 ng
 RT: 21.53 min Scan# 1745
 Delta R.T. -0.02 min
 Lab File: BF089686.D
 Acq: 9 Aug 2016 7:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-64-0.5-1.5DL

Tgt Ion:	276	Resp:	34050
Ion Ratio	Lower	Upper	
276	100		
277	25.8	18.6	28.0
138	28.6	22.6	33.8

Manual Integrations
 APPROVED

sohil
 8/9/2016 6:19:01 PM

