

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080916\
 Data File : BF089695.D
 Acq On : 9 Aug 2016 18:55
 Operator : UM/SJ
 Sample : H4288-02DL 25X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
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 8/10/2016 9:22:29 AM

Quant Time: Aug 09 19:27:28 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	40635	20.00	ng	-0.03
21) Naphthalene-d8	9.44	136	172036	20.00	ng	-0.03
38) Acenaphthene-d10	12.26	164	78898	20.00	ng	-0.03
63) Phenanthrene-d10	14.66	188	136822	20.00	ng	-0.03
75) Chrysene-d12	18.37	240	80632	20.00	ng	-0.02
86) Perylene-d12	20.03	264	89168	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	9053m	3.73	ng	0.07
7) Phenol-d6	7.04	99	14613m	4.44	ng	0.06
23) Nitrobenzene-d5	8.34	82	7971	2.56	ng	-0.02
41) 2,4,6-Tribromophenol	13.57	330	1684	2.59	ng	-0.02
44) 2-Fluorobiphenyl	11.22	172	20605	3.39	ng	-0.03
78) Terphenyl-d14	17.03	244	13546	3.32	ng	-0.02
Target Compounds						Qvalue
51) Acenaphthene	12.31	154	23924	4.71	ng	97
54) Dibenzofuran	12.60	168	34564	4.95	ng	99
57) Fluorene	13.15	166	42933	7.20	ng	98
70) Phenanthrene	14.70	178	327290	43.99	ng	99
71) Anthracene	14.78	178	135496	16.99	ng	99
72) Carbazole	15.10	167	20847	3.14	ng	99
74) Fluoranthene	16.47	202	276847	36.20	ng	99
77) Pyrene	16.77	202	216653	30.39	ng	# 94
80) Benzo(a)anthracene	18.35	228	79060	17.06	ng	99
82) Chrysene	18.40	228	64141	13.20	ng	99
85) Indeno(1,2,3-cd)pyrene	21.21	276	39954	10.83	ng	# 93
87) Benzo(b)fluoranthene	19.62	252	76315m	13.92	ng	
88) Benzo(k)fluoranthene	19.66	252	31221m	5.64	ng	
89) Benzo(a)pyrene	19.98	252	67070	13.06	ng	97
91) Benzo(a,h,i)perylene	21.54	276	41006	8.35	ng	97

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

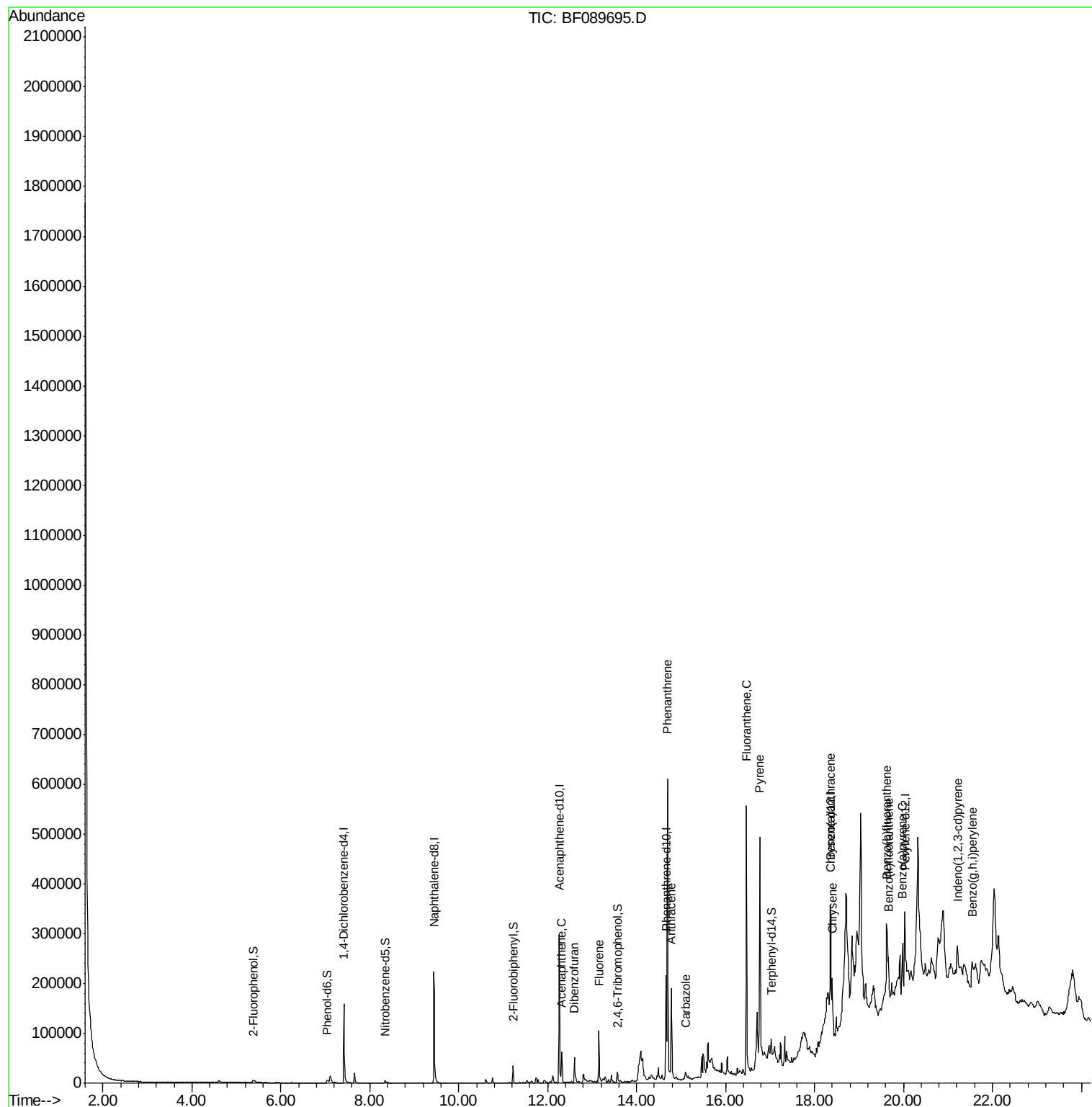
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080916\
Data File : BF089695.D
Acq On : 9 Aug 2016 18:55
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Sample : H4288-02DL 25X
Misc :
ALS Vial : 8 Sample Multiplier: 1

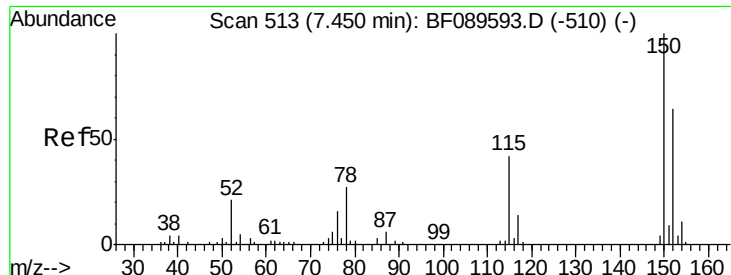
Instrument :
BNA_F
ClientSampleId :
SB-64-0.5-1.5DL

Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080416.M
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#1

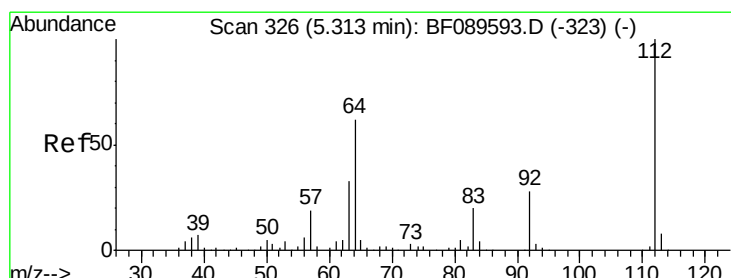
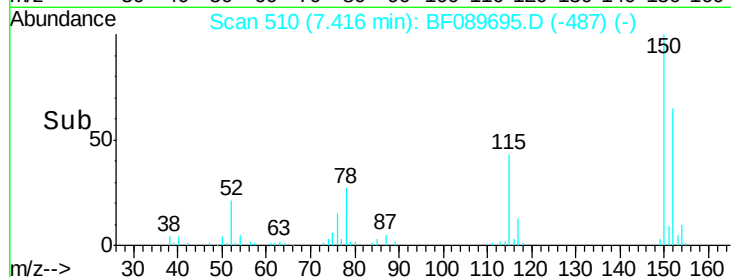
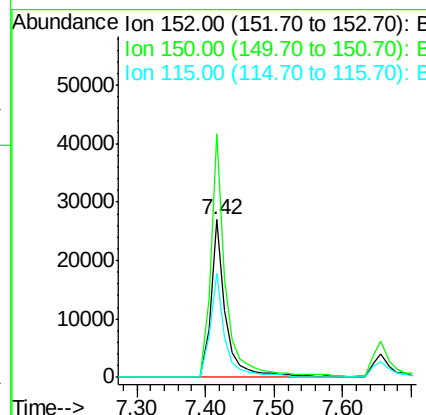
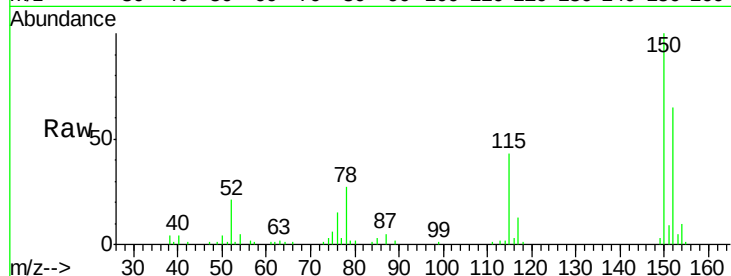
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.42 min Scan# 510
Delta R.T. -0.03 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	125.5	188.3
115	65.8	52.0	78.0

Manual Integrations
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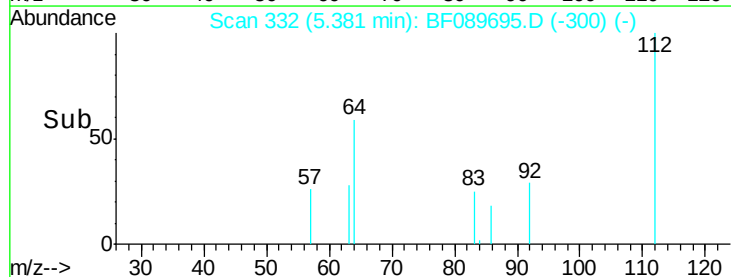
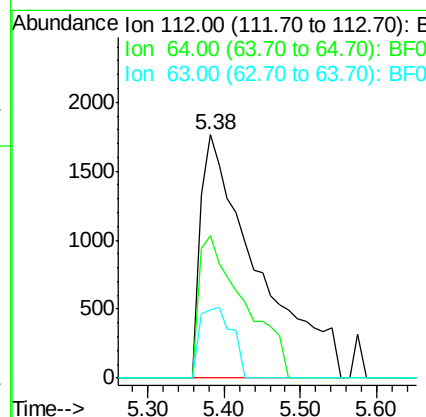
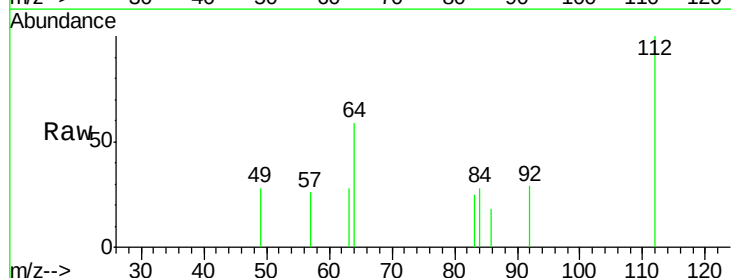
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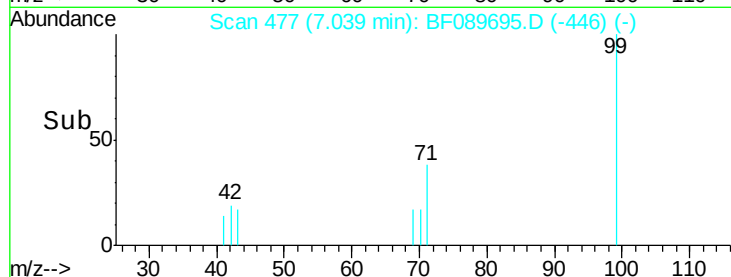
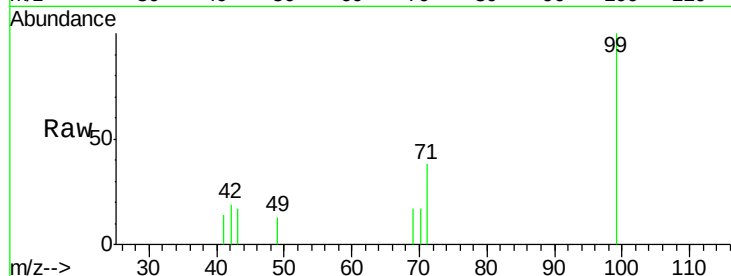
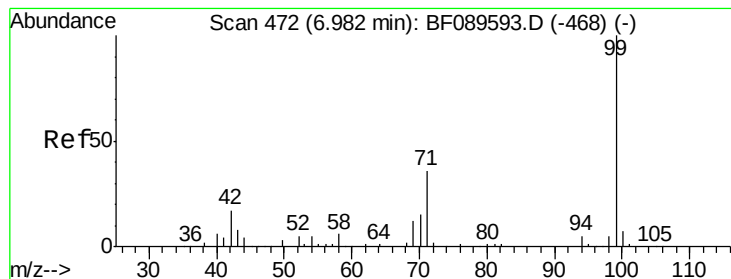


#5

2-Fluorophenol
Concen: 3.73 ng m
RT: 5.38 min Scan# 332
Delta R.T. 0.07 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	49.9	74.9
63	28.1	26.1	39.1





#7

Phenol-d6

Concen: 4.44 ng/mL

RT: 7.04 min Scan# 477

Delta R.T. 0.06 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tot Ion:	99	Resp:	14613
Ion Ratio	Lower	Upper	
99	100		
42	18.6	13.7	20.5
71	38.4	29.0	43.4

Instrument :

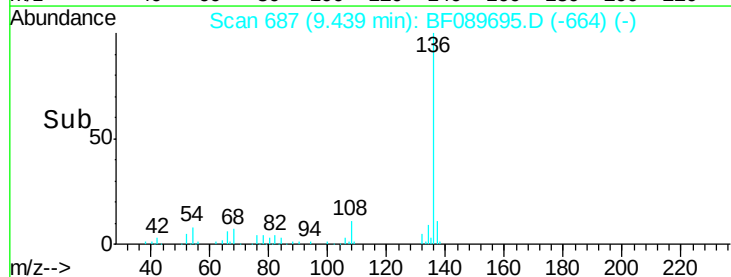
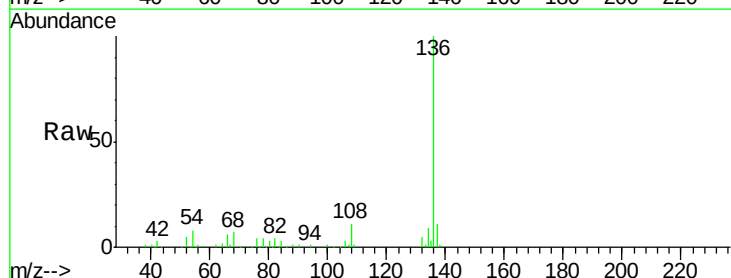
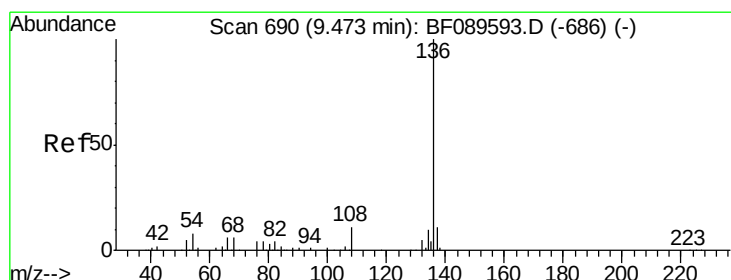
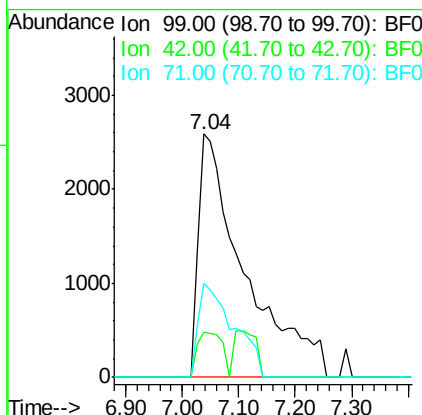
BNA_F

ClientSampled :

SB-64-0.5-1.5DL

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#21

Naphthalene-d8

Concen: 20.00 ng

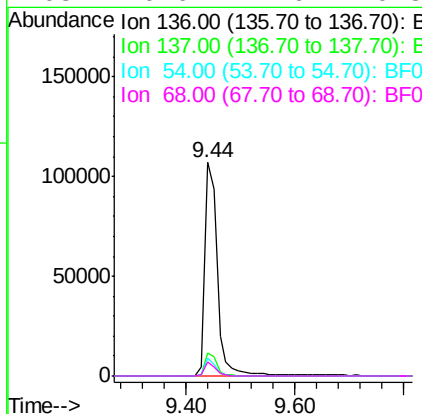
RT: 9.44 min Scan# 687

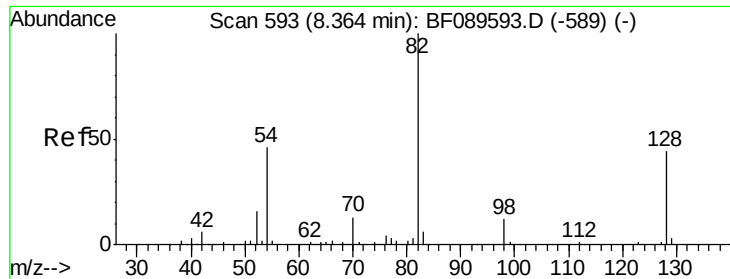
Delta R.T. -0.03 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tgt Ion:	136	Resp:	172036
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.6	12.8
54	8.3	6.0	9.0
68	6.6	4.6	6.8





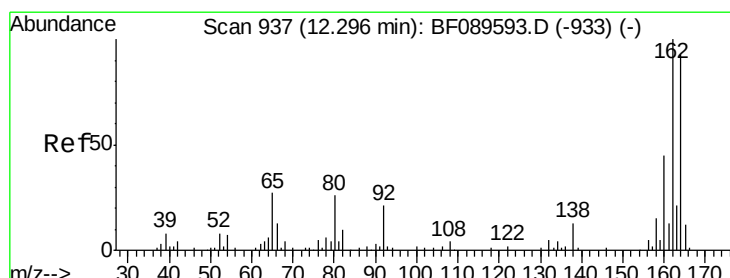
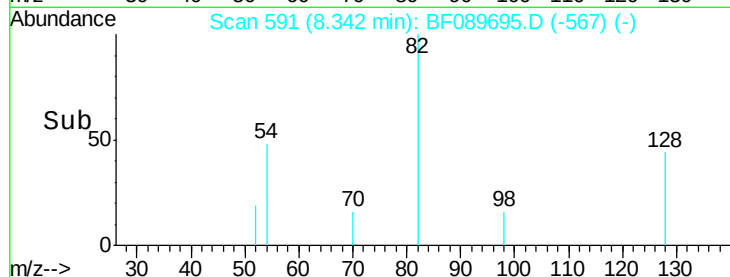
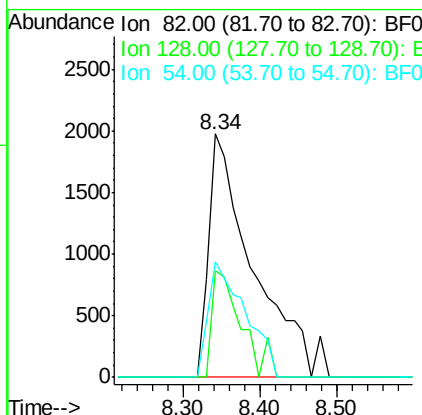
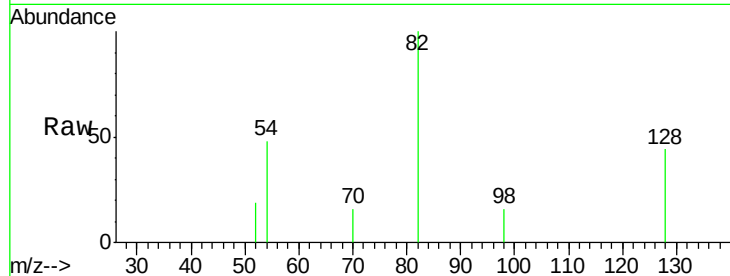
#23
 Nitrobenzene-d5
 Concen: 2.56 ng
 RT: 8.34 min Scan# 591
 Delta R.T. -0.02 min
 Lab File: BF089695.D
 Acq: 9 Aug 2016 18:55

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

Tot Ion	82	Resp	7971
Ion Ratio	100	Lower	Upper
82	100		
128	43.9	35.4	53.0
54	47.6	36.4	54.6

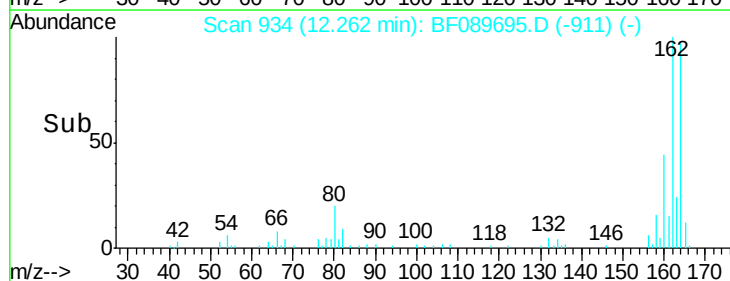
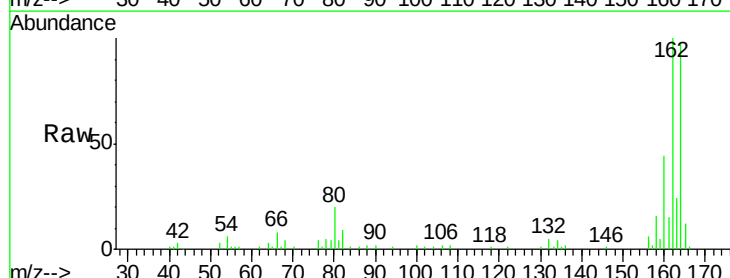
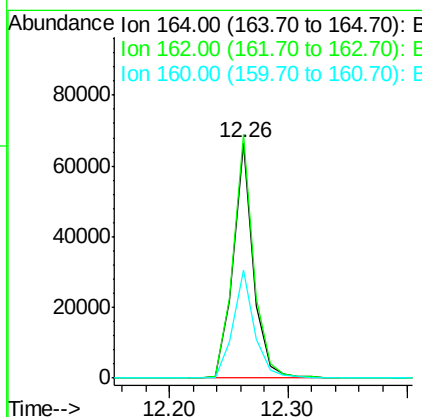
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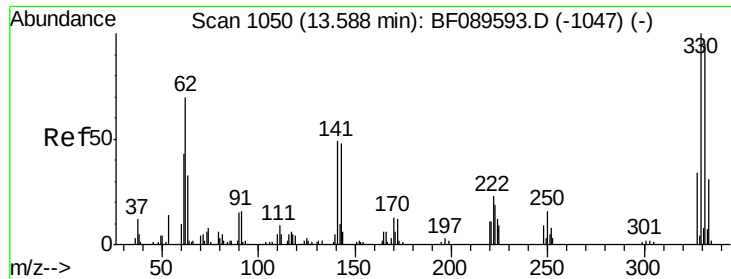
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.26 min Scan# 934
 Delta R.T. -0.03 min
 Lab File: BF089695.D
 Acq: 9 Aug 2016 18:55

Tgt Ion	164	Resp	78898
Ion Ratio	100	Lower	Upper
164	100		
162	103.6	85.7	128.5
160	45.9	38.2	57.4





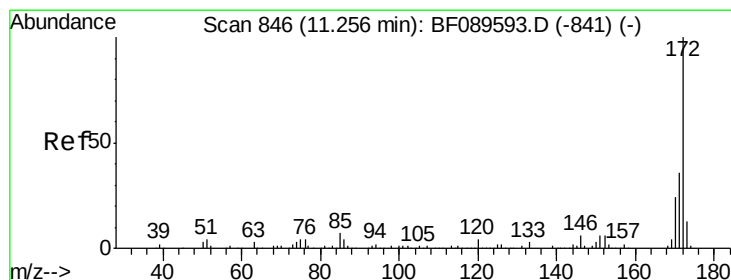
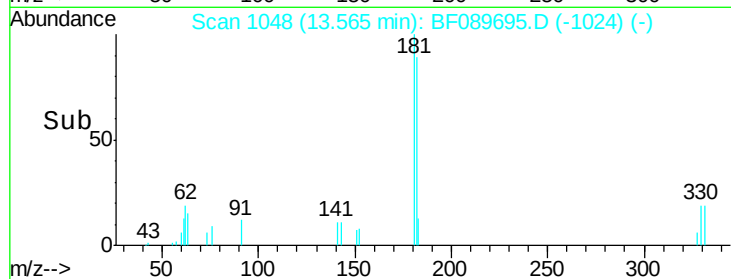
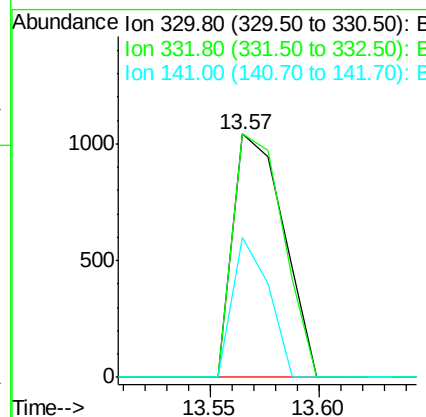
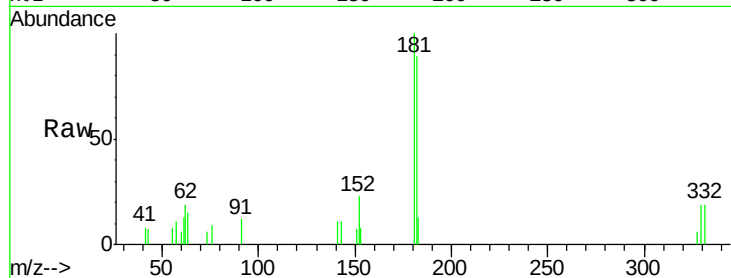
#41
 2,4,6-Tribromophenol
 Concen: 2.59 ng
 RT: 13.57 min Scan# 1048
 Delta R.T. -0.02 min
 Lab File: BF089695.D
 Acq: 9 Aug 2016 18:55

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	99.2	77.0	115.6
141	40.9	38.6	57.8

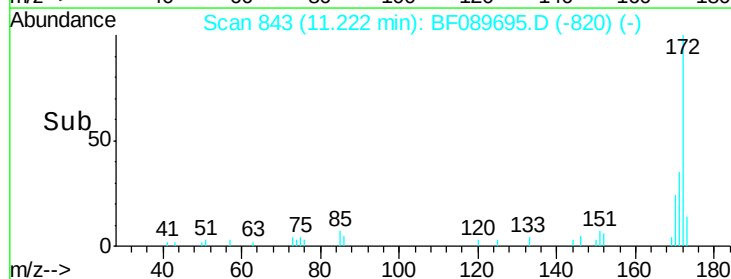
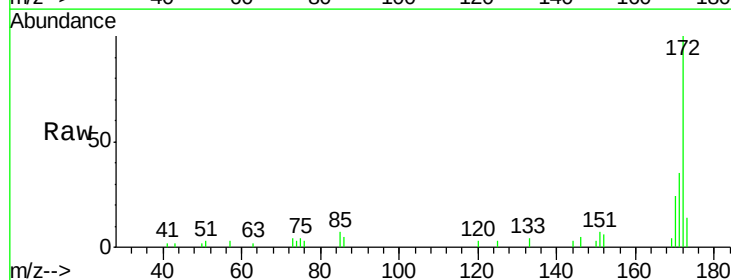
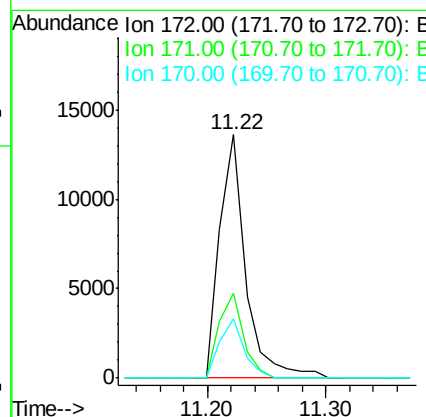
Manual Integrations
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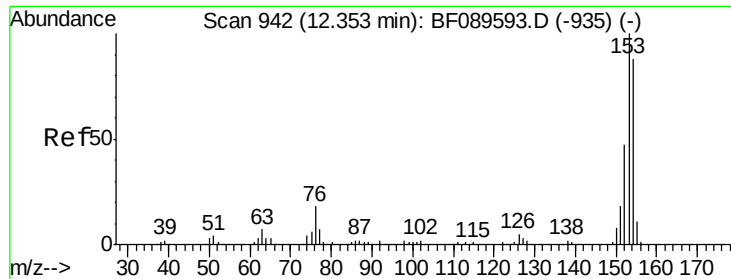
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#44
 2-Fluorobiphenyl
 Concen: 3.39 ng
 RT: 11.22 min Scan# 843
 Delta R.T. -0.03 min
 Lab File: BF089695.D
 Acq: 9 Aug 2016 18:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.9	43.3
170	24.1	19.0	28.6





#51

Acenaphthene

Concen: 4.71 ng

RT: 12.31 min Scan# 938

Delta R.T. -0.05 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Instrument :

BNA_F

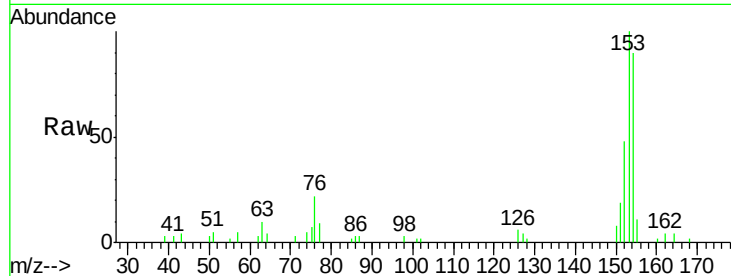
ClientSampleId :

SB-64-0.5-1.5DL

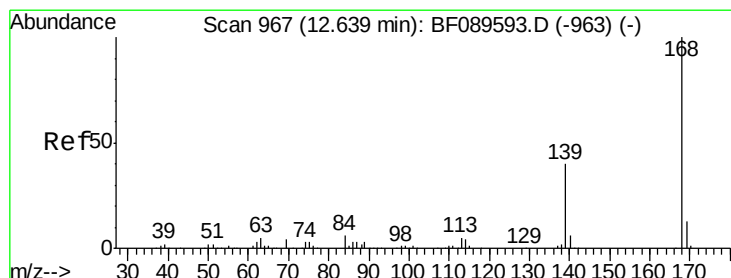
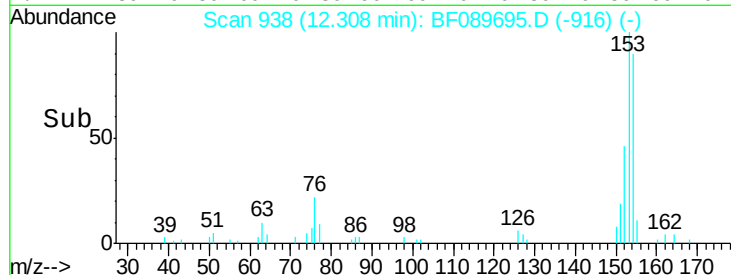
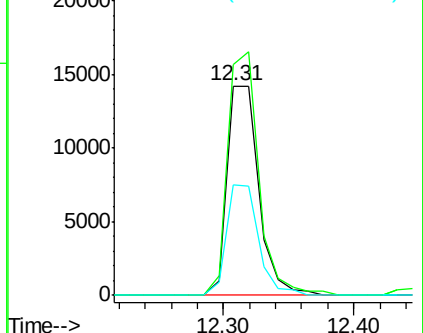
Tot Ion:	154	Resp:	23924
Ion	Ratio	Lower	Upper
154	100		
153	110.6	91.1	136.7
152	52.8	43.5	65.3

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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: 4.95 ng

RT: 12.60 min Scan# 964

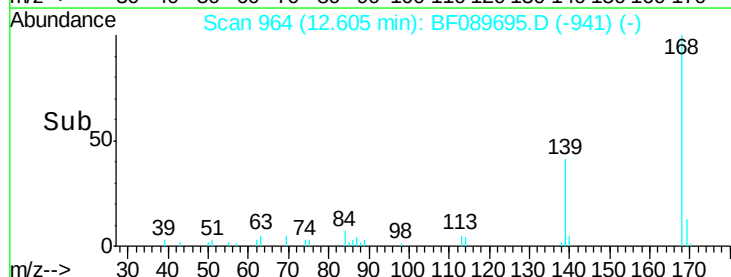
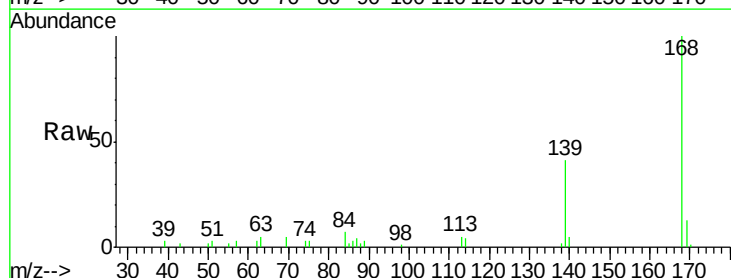
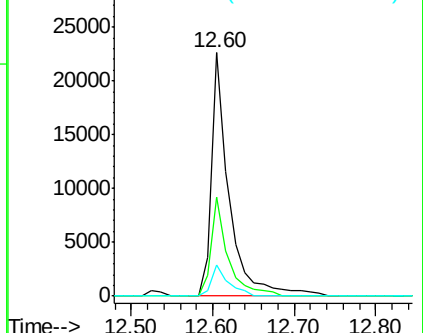
Delta R.T. -0.03 min

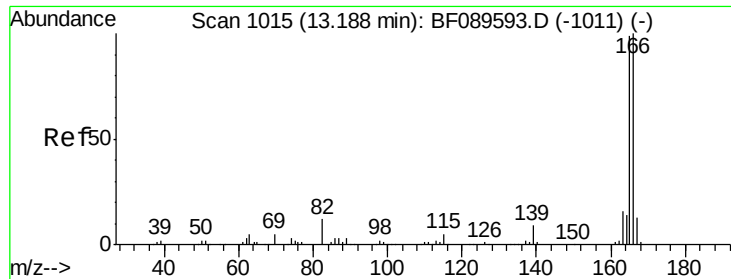
Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tgt Ion:	168	Resp:	34564
Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.3	48.5
169	12.9	10.6	15.8

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: 7.20 ng

RT: 13.15 min Scan# 1012

Delta R.T. -0.03 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Instrument :

BNA_F

ClientSampleId :

SB-64-0.5-1.5DL

Tot Ion:166 Resp: 42933

Ion Ratio Lower Upper

166 100

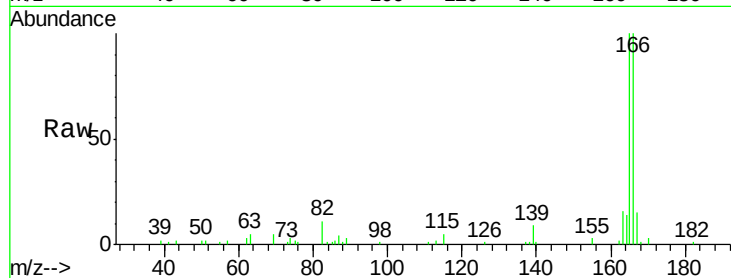
165 100.4 78.9 118.3

167 14.7 10.4 15.6

Manual Integrations
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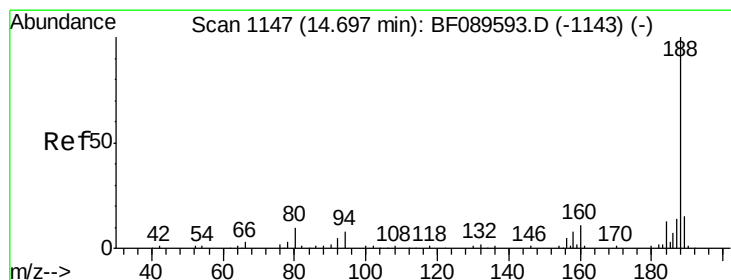
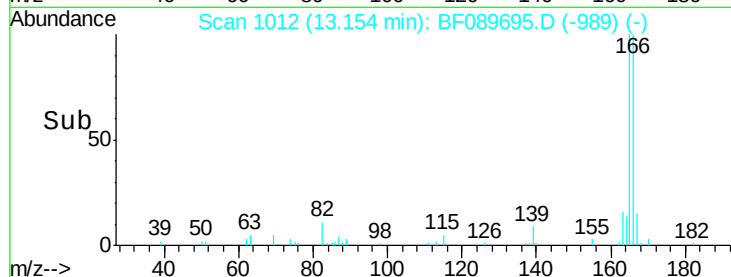
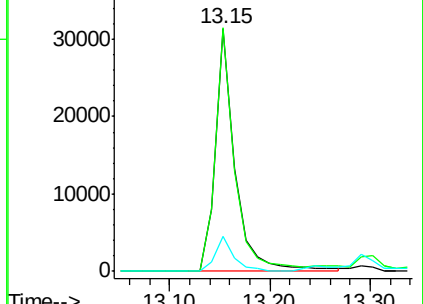
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.66 min Scan# 1144

Delta R.T. -0.03 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

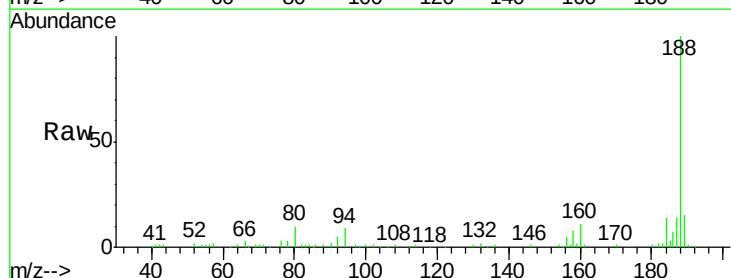
Tgt Ion:188 Resp: 136822

Ion Ratio Lower Upper

188 100

94 8.6 6.5 9.7

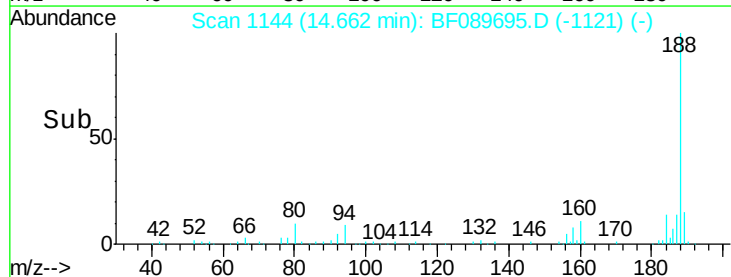
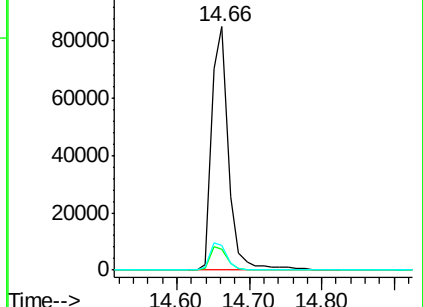
80 10.3 8.0 12.0

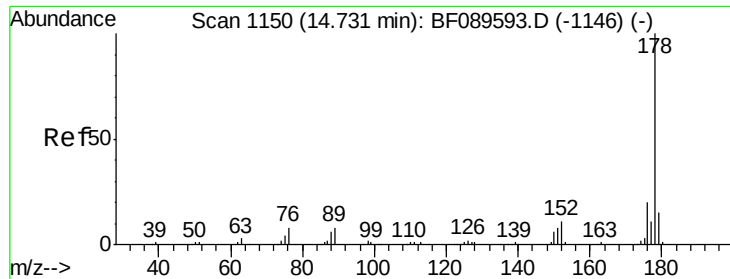


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





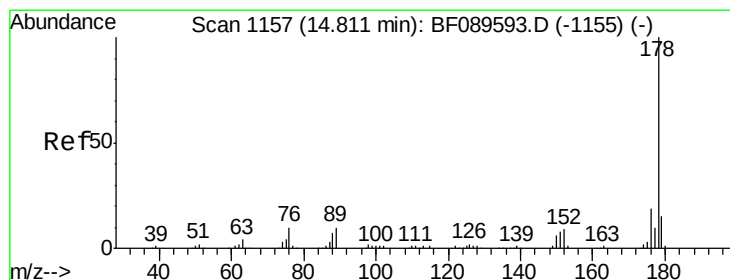
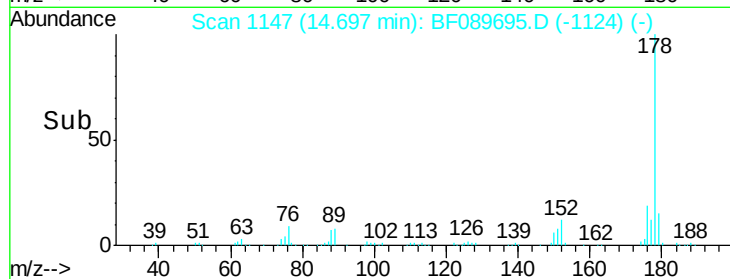
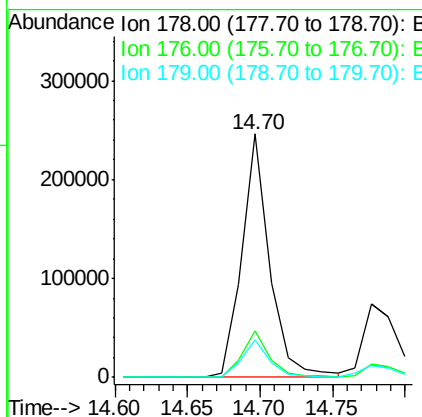
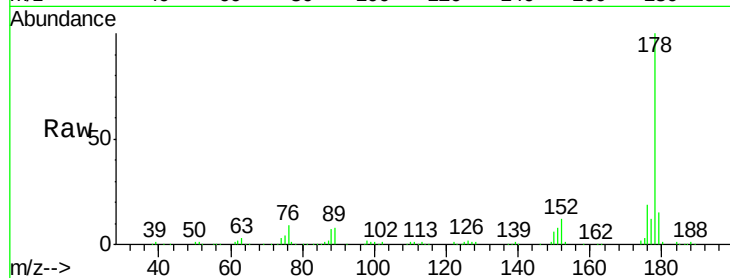
#70
Phenanthrene
Concen: 43.99 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.03 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.7	23.5
179	15.2	12.2	18.2

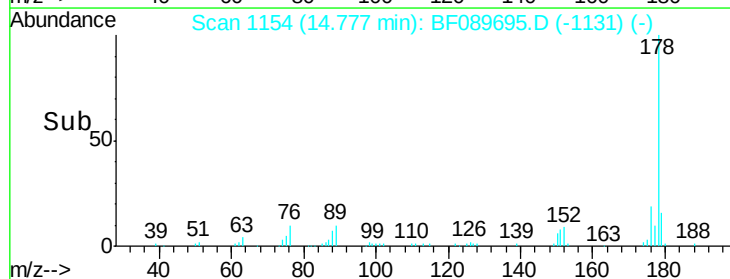
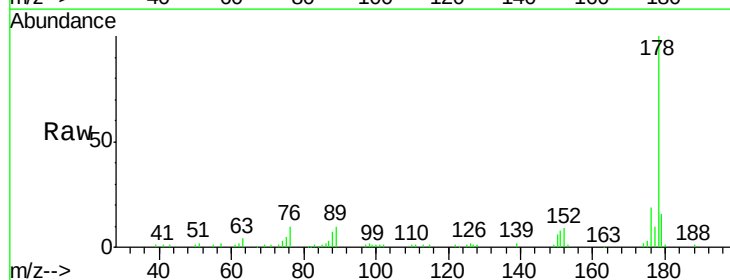
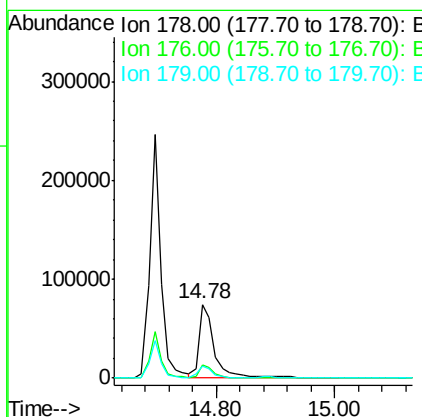
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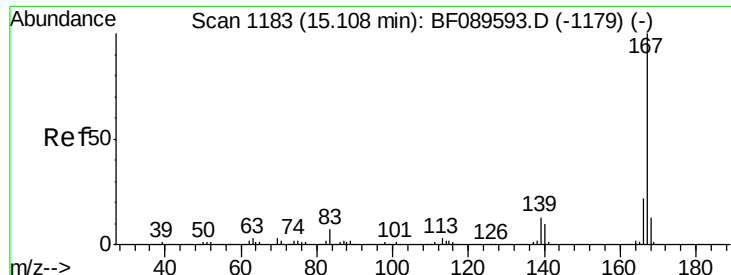
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#71
Anthracene
Concen: 16.99 ng
RT: 14.78 min Scan# 1154
Delta R.T. -0.03 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	16.4	12.4	18.6





#72

Carbazole

Concen: 3.14 ng

RT: 15.10 min Scan# 1182

Delta R.T. -0.01 min

Lab File: BF089695.D

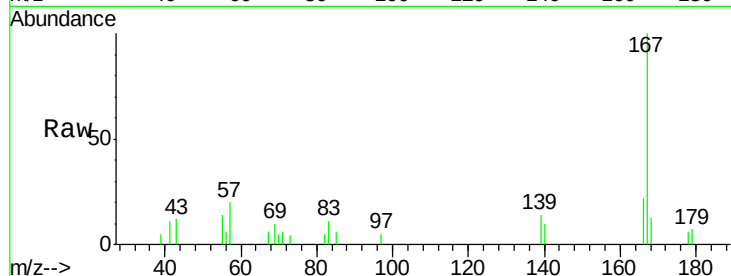
Acq: 9 Aug 2016 18:55

Instrument :

BNA_F

ClientSampled :

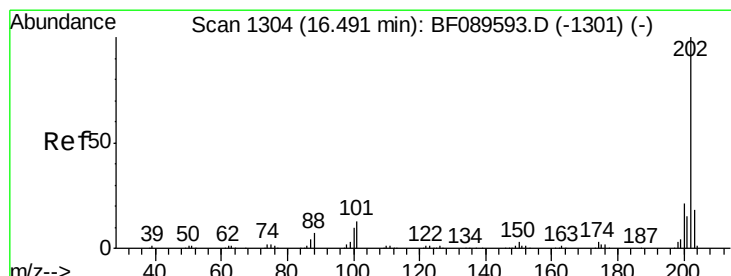
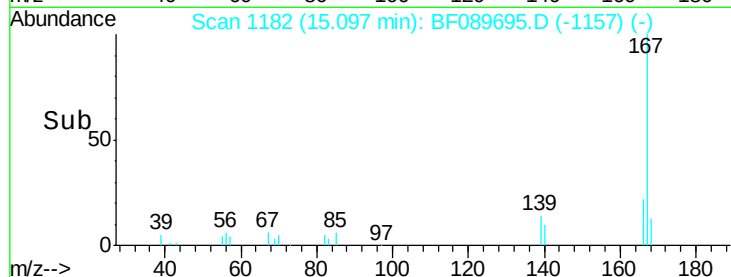
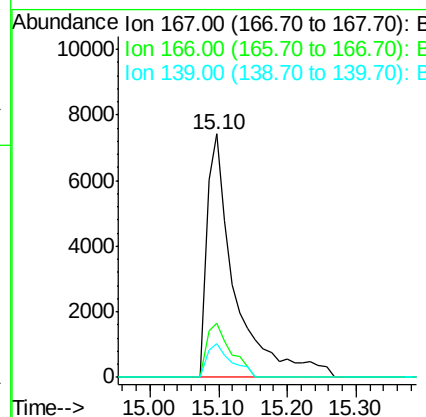
SB-64-0.5-1.5DL



Tot Ion:	167	Resp:	20847
Ion Ratio	Lower	Upper	
167	100		
166	22.3	17.5	26.3
139	14.1	10.4	15.6

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#74

Fluoranthene

Concen: 36.20 ng

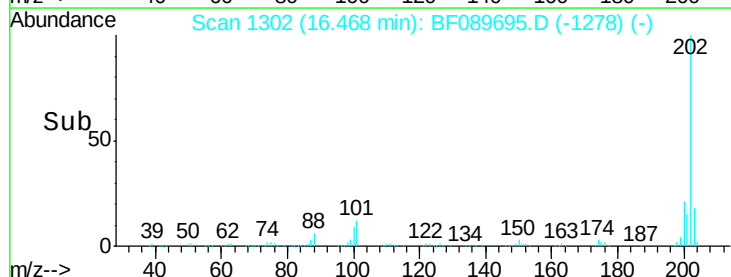
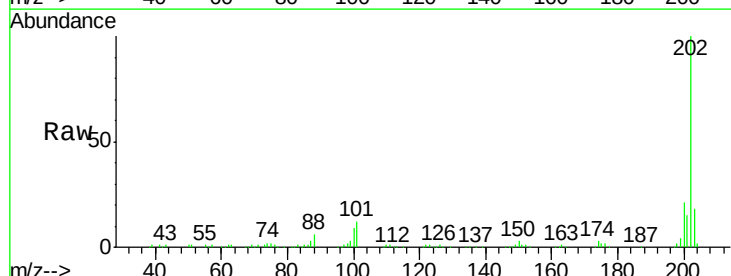
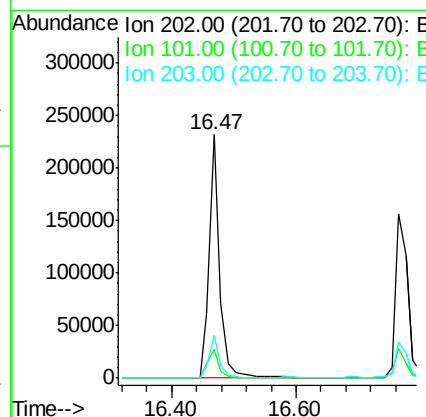
RT: 16.47 min Scan# 1302

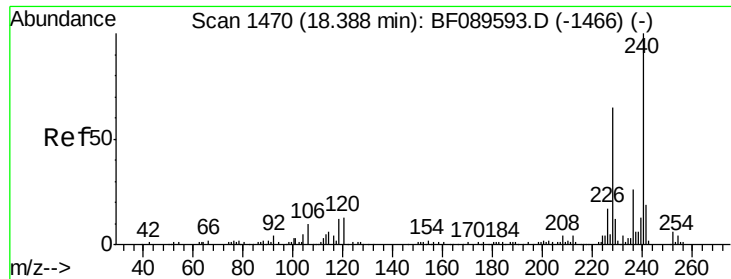
Delta R.T. -0.02 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tgt Ion:	202	Resp:	276847
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	32.7
203	17.5	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: BF089695.D

Acq: 9 Aug 2016 18:55

Instrument :

BNA_F

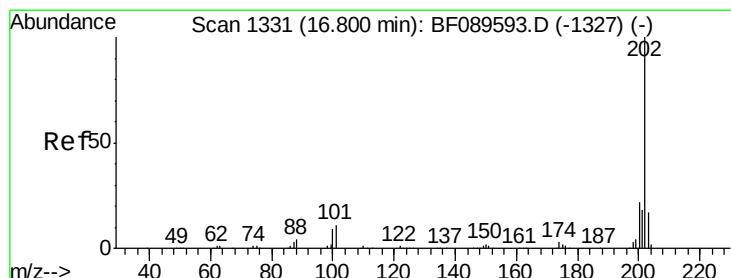
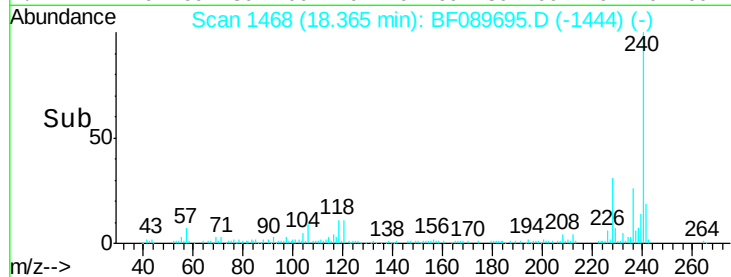
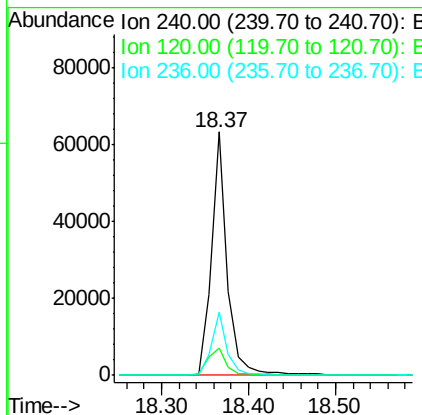
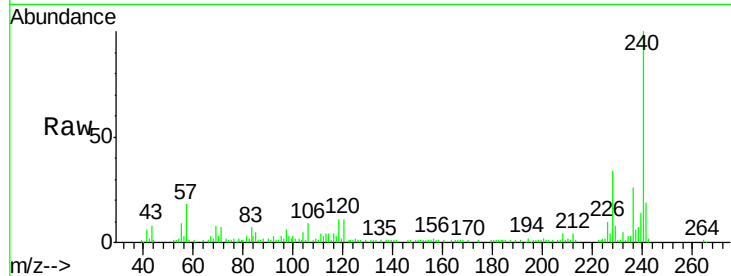
ClientSampleId :

SB-64-0.5-1.5DL

Tot Ion:	240	Resp:	80632
Ion Ratio	Lower	Upper	
240	100		
120	11.3	10.6	15.8
236	26.0	20.6	30.8

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#77

Pyrene

Concen: 30.39 ng

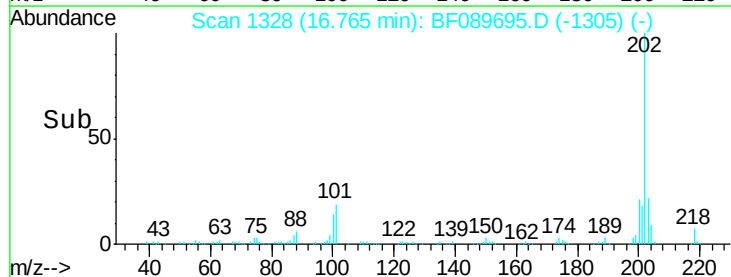
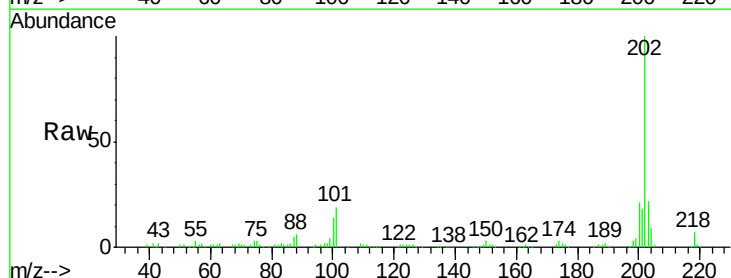
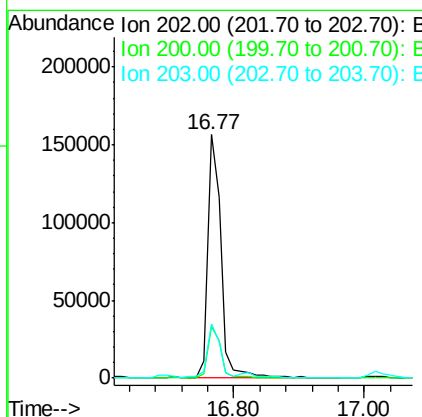
RT: 16.77 min Scan# 1328

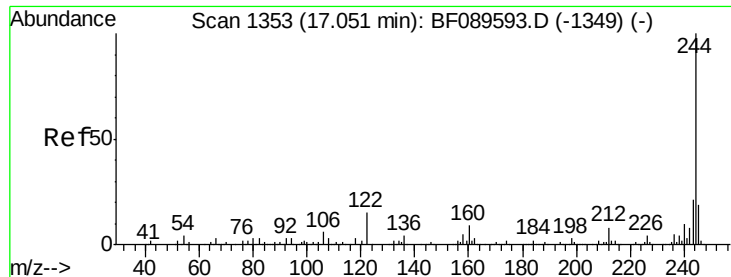
Delta R.T. -0.03 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tgt Ion:	202	Resp:	216653
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.4	26.0
203	22.3	13.6	20.4#





#78

Terphenyl-d14

Concen: 3.32 ng

RT: 17.03 min Scan# 1351

Delta R.T. -0.02 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Instrument :

BNA_F

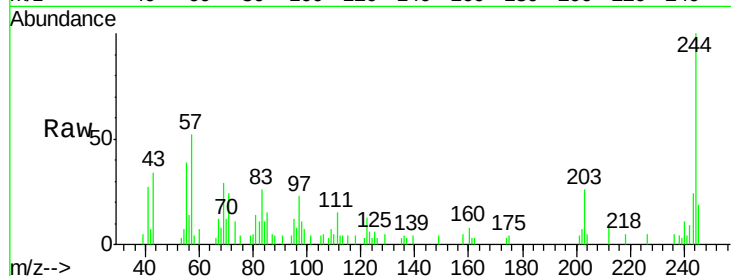
ClientSampleId :

SB-64-0.5-1.5DL

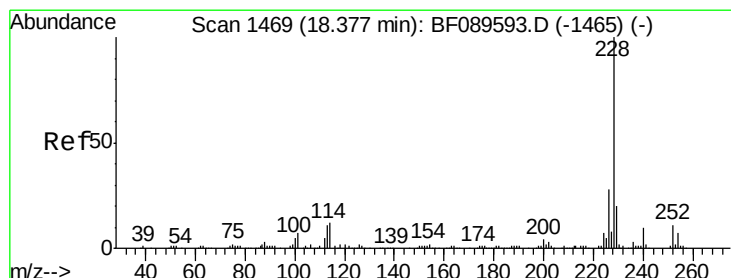
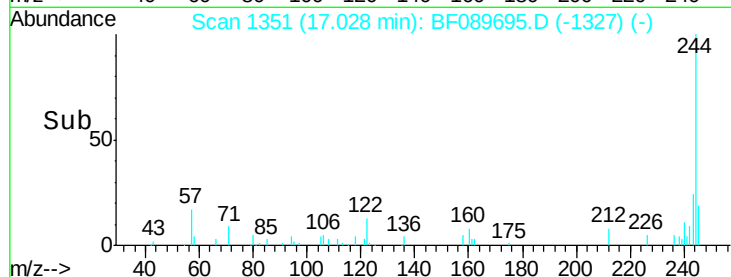
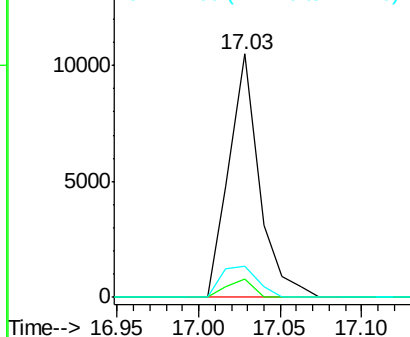
Tot Ion:	244	Resp:	13546
Ion Ratio	Lower	Upper	
244	100		
212	7.5	6.4	9.6
122	12.7	12.2	18.2

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 17.06 ng

RT: 18.35 min Scan# 1467

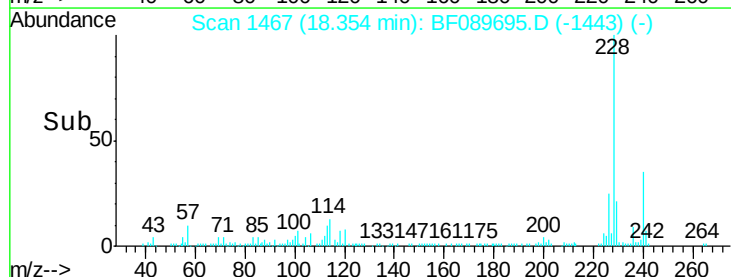
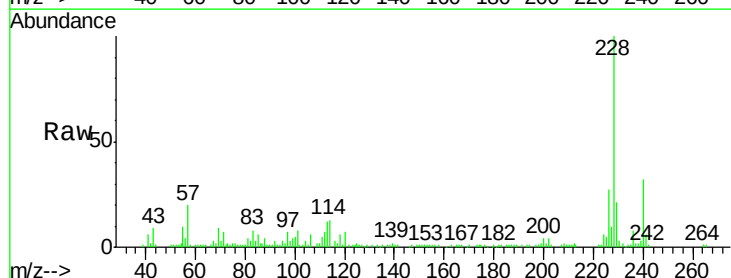
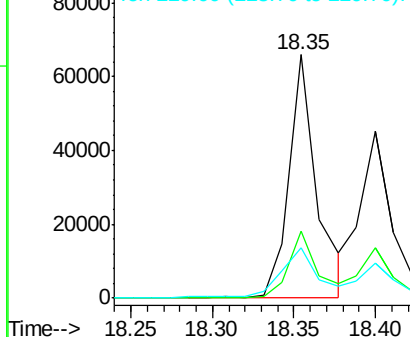
Delta R.T. -0.02 min

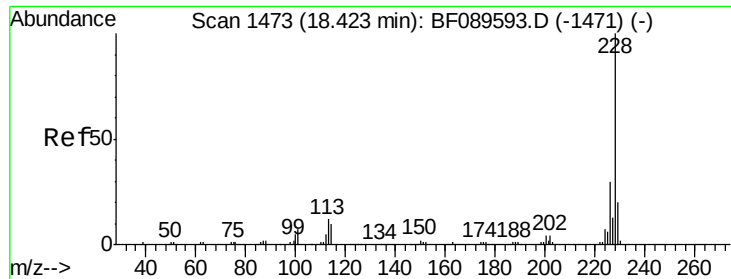
Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tgt Ion:	228	Resp:	79060
Ion Ratio	Lower	Upper	
228	100		
226	27.4	22.3	33.5
229	20.8	15.9	23.9

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





#82

Chrysene

Concen: 13.20 ng

RT: 18.40 min Scan# 1471

Delta R.T. -0.02 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Instrument :

BNA_F

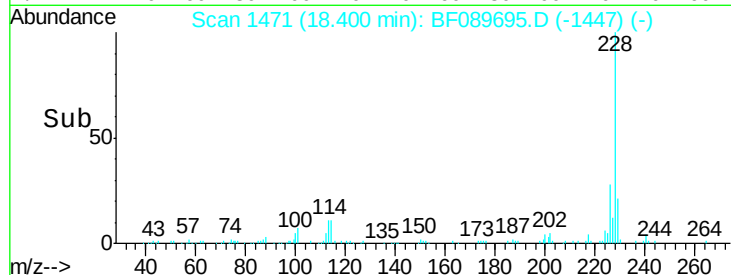
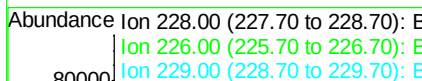
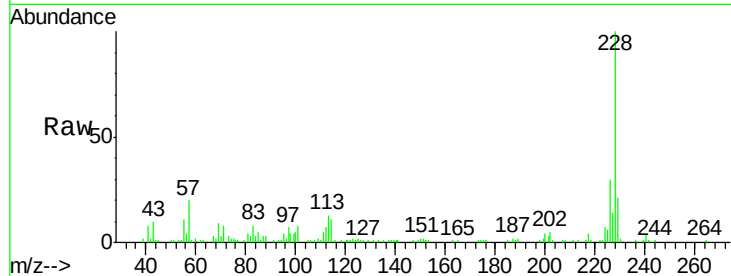
ClientSampleId :

SB-64-0.5-1.5DL

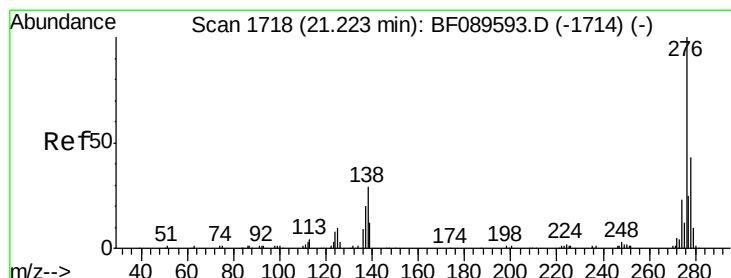
Tot Ion:	228	Resp:	64141
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.2	36.2
229	21.0	16.0	24.0

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Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.83 ng

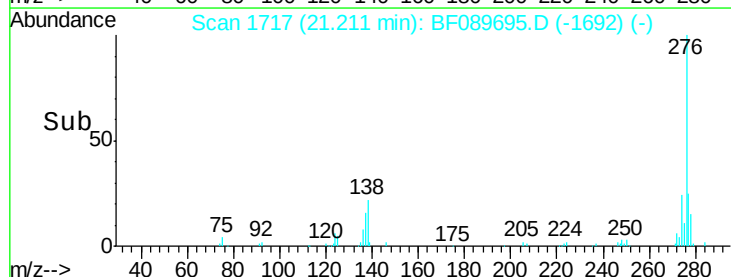
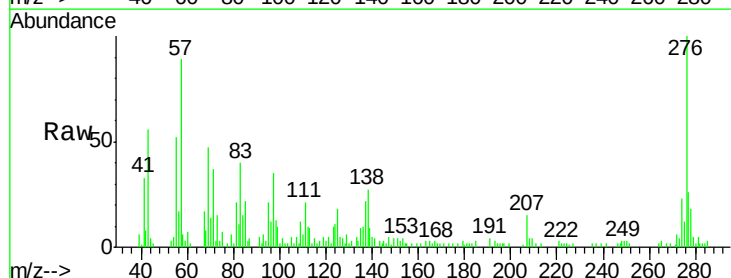
RT: 21.21 min Scan# 1717

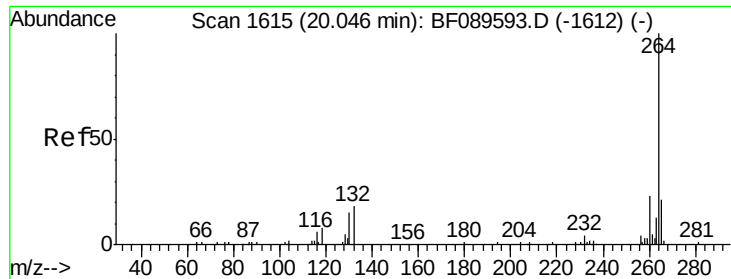
Delta R.T. -0.01 min

Lab File: BF089695.D

Acq: 9 Aug 2016 18:55

Tgt Ion:	276	Resp:	39954
Ion Ratio	Lower	Upper	
276	100		
138	23.7	23.8	35.8#
277	24.5	20.3	30.5





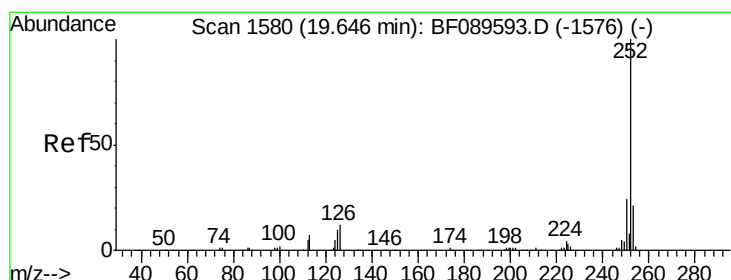
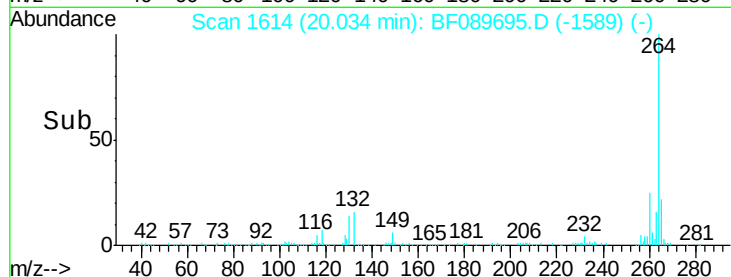
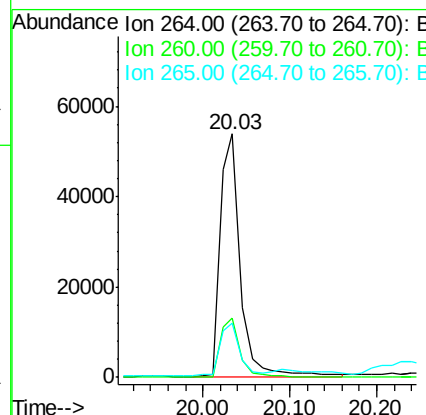
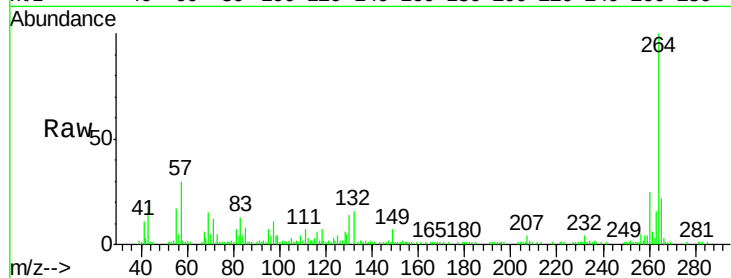
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.03 min Scan# 1614
Delta R.T. -0.01 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

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

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.7	28.1
265	22.5	16.5	24.7

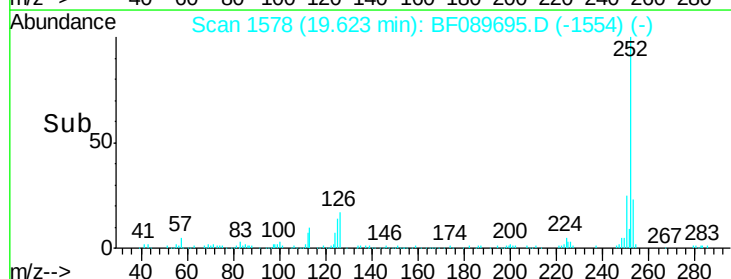
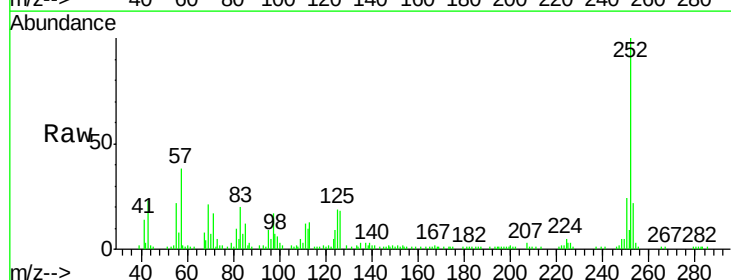
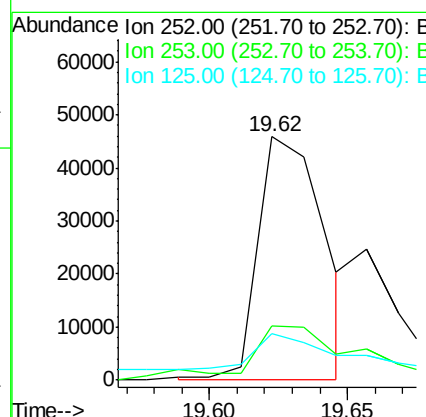
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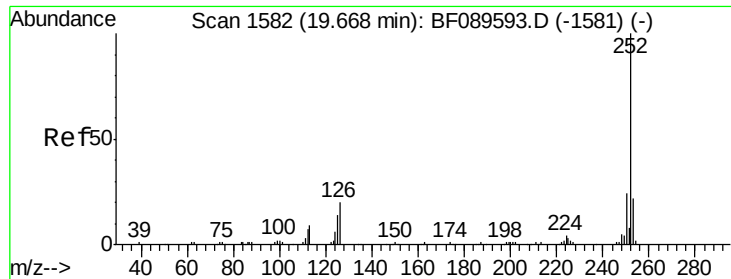
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#87
Benzo(b)fluoranthene
Concen: 13.92 ng m
RT: 19.62 min Scan# 1578
Delta R.T. -0.02 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	19.3	7.8	11.8#





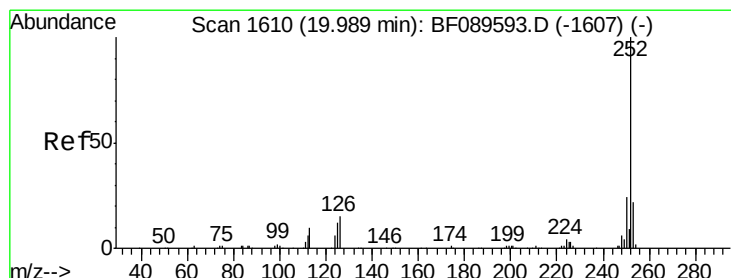
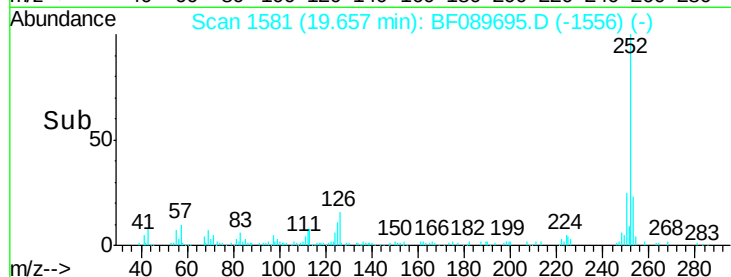
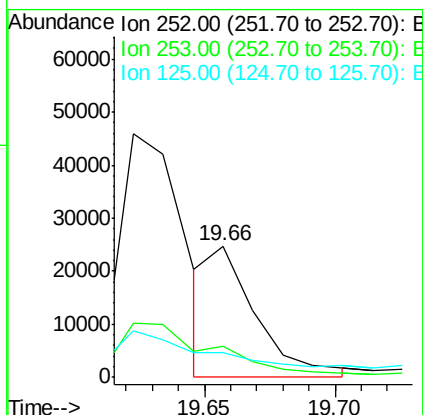
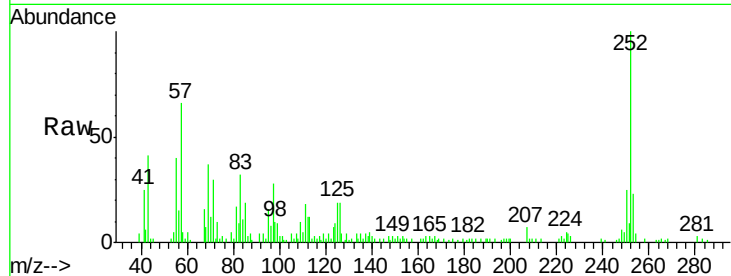
#88
Benzo(k)fluoranthene
Concen: 5.64 ng m
RT: 19.66 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9
125	18.6	11.0	16.6

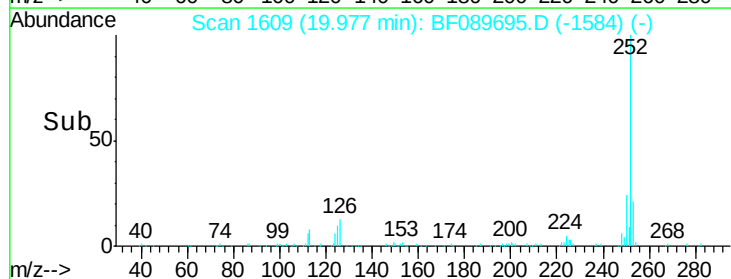
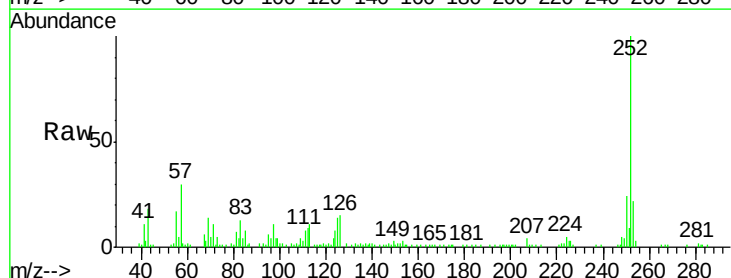
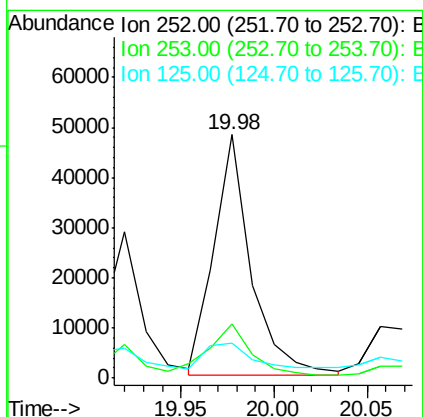
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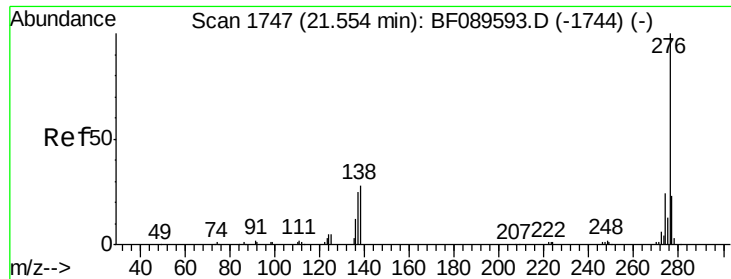
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#89
Benzo(a)pyrene
Concen: 13.06 ng
RT: 19.98 min Scan# 1609
Delta R.T. -0.01 min
Lab File: BF089695.D
Acq: 9 Aug 2016 18:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.0
125	14.2	9.9	14.9





#91
 Benzo(a,h,i)perylene
 Concen: 8.35 ng
 RT: 21.54 min Scan# 1746
 Delta R.T. -0.01 min
 Lab File: BF089695.D
 Acq: 9 Aug 2016 18:55

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

Tot Ion:	276	Resp:	41006
Ion Ratio	Lower	Upper	
276	100		
277	25.5	18.6	28.0
138	29.2	22.6	33.8

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