

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\
 Data File : BF098005.D
 Acq On : 24 Aug 2017 16:45
 Operator : SJ/JU
 Sample : I4774-04 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

Manual Integrations
 APPROVED

Sohil
 8/25/2017 5:40:01 PM

Quant Time: Aug 25 12:55:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	117327	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	456678	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	205502	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	399352	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	286798	20.00	ng	-0.01
86) Perylene-d12	15.30	264	236413	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	70558	9.15	ng	-0.02
7) Phenol-d6	6.36	99	96659	9.22	ng	-0.03
23) Nitrobenzene-d5	7.29	82	59324	7.06	ng	-0.03
41) 2,4,6-Tribromophenol	10.55	330	15682	8.79	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	87894	6.28	ng	-0.02
78) Terphenyl-d14	12.83	244	73461	5.34	ng	-0.02
Target Compounds						
51) Acenaphthene	9.80	154	29761	2.170	ng	95
54) Dibenzofuran	9.97	168	39006	2.122	ng	97
57) Fluorene	10.32	166	65412	4.603	ng	95
70) Phenanthrene	11.28	178	430162	20.214	ng	99
71) Anthracene	11.33	178	118130	5.473	ng	98
74) Fluoranthene	12.46	202	437684	19.705	ng	99
77) Pyrene	12.69	202	361562	15.414	ng	99
80) Benzo(a)anthracene	13.87	228	146132	8.501	ng	98
82) Chrysene	13.91	228	119008	6.960	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	60322	4.796	ng	# 90
87) Benzo(b)fluoranthene	14.90	252	141555m	9.499	ng	
88) Benzo(k)fluoranthene	14.92	252	40485m	2.892	ng	
89) Benzo(a)pyrene	15.24	252	96514	7.316	ng	99
91) Benzo(a,h,i)perylene	17.08	276	56508m	5.042	ng	

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

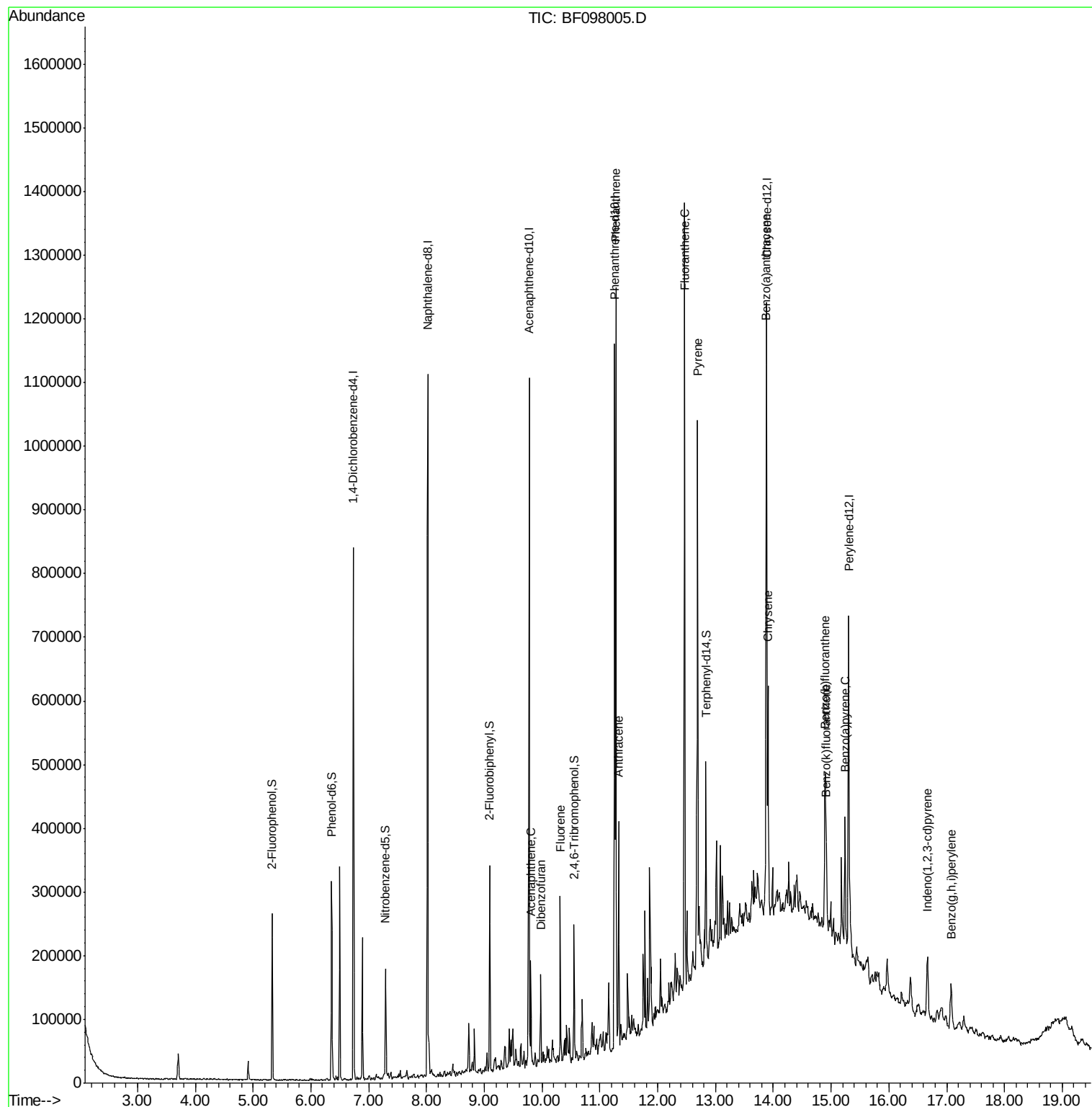
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\
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Misc :
ALS Vial : 6 Sample Multiplier: 1

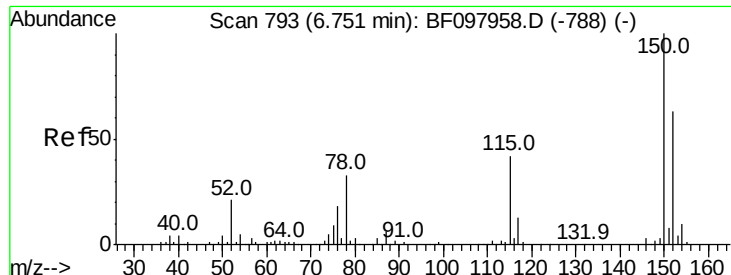
Instrument :
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#1

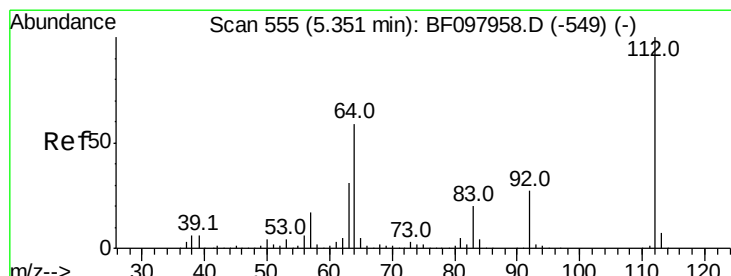
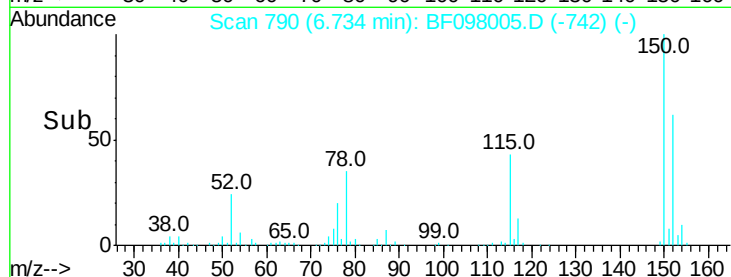
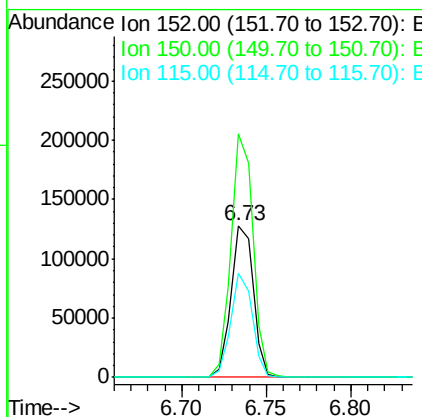
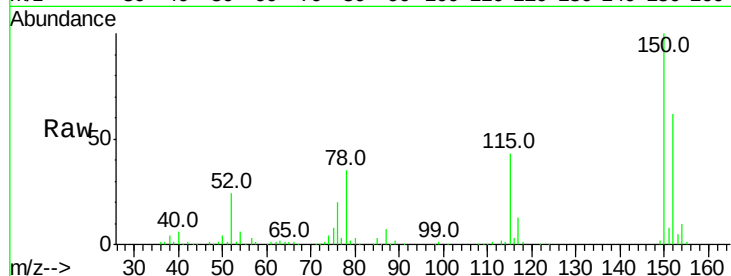
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampled :
HY-SB440

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.2	189.2
115	68.5	52.2	78.2

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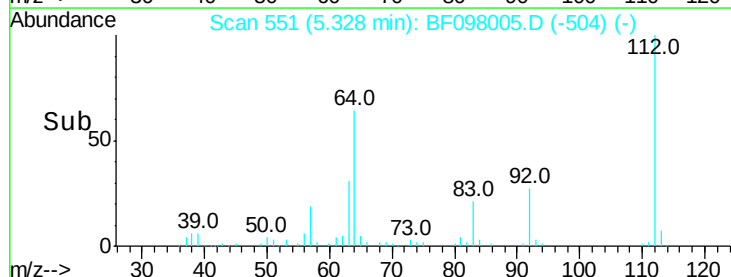
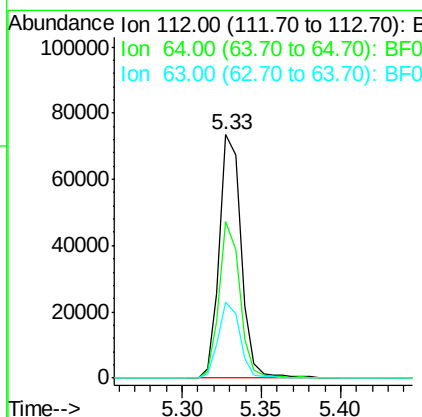
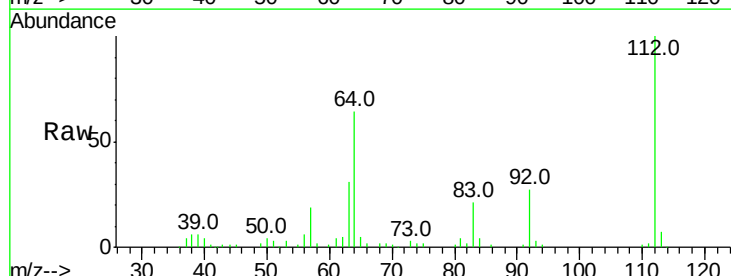
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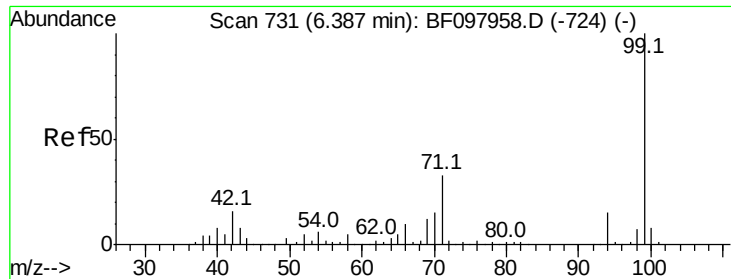


#5

2-Fluorophenol
Concen: 9.147 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.3	46.0	69.0
63	31.2	23.4	35.0





#7

Phenol-d6

Concen: 9.223 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

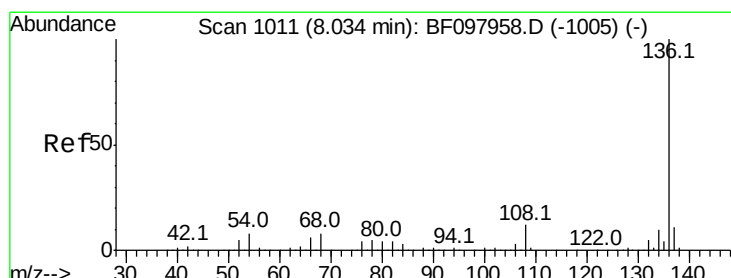
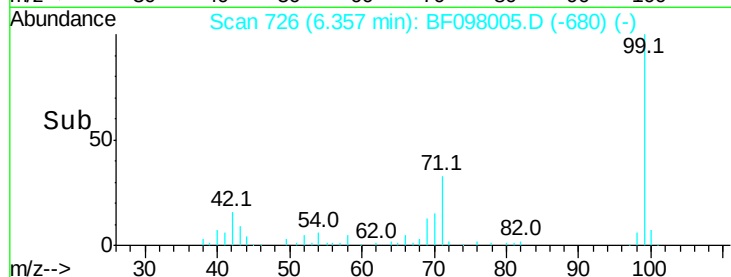
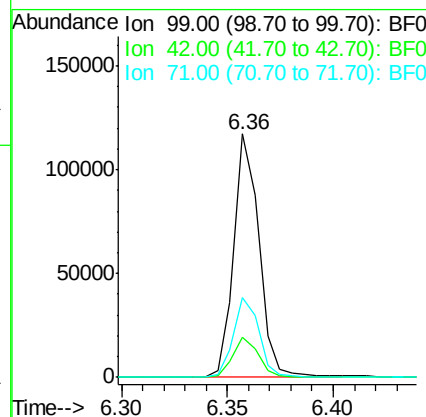
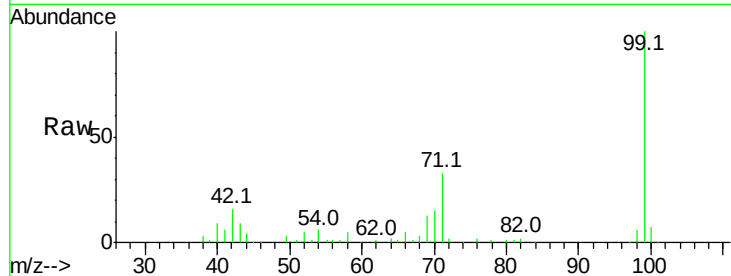
ClientSampleId :

HY-SB440

Tot Ion:	99	Resp:	96659
Ion Ratio	Lower	Upper	
99	100		
42	16.4	13.5	20.3
71	32.7	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

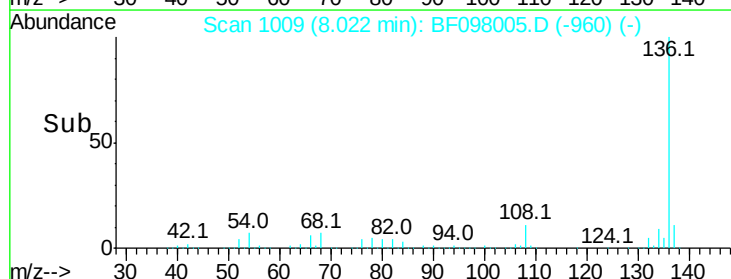
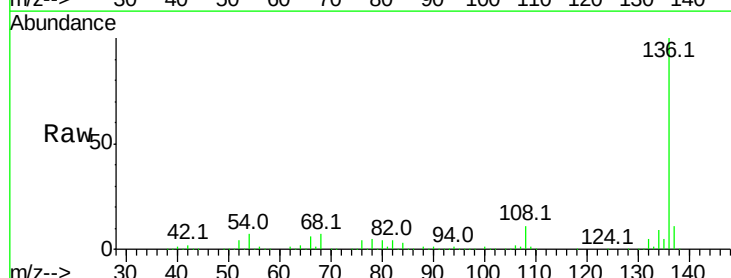
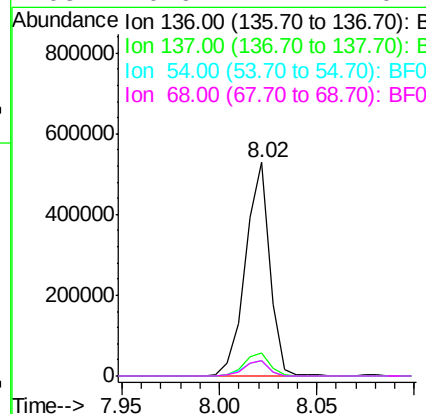
RT: 8.02 min Scan# 1009

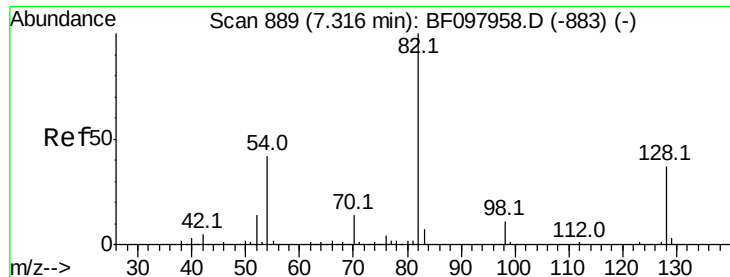
Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Tgt Ion:	136	Resp:	456678
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	7.3	4.9	7.3
68	6.9	4.1	6.1#





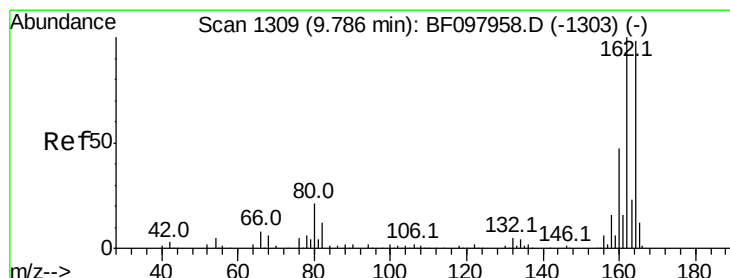
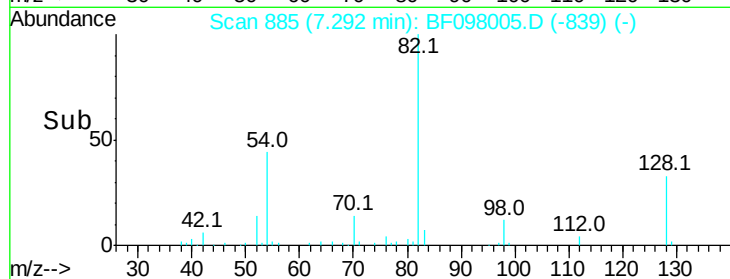
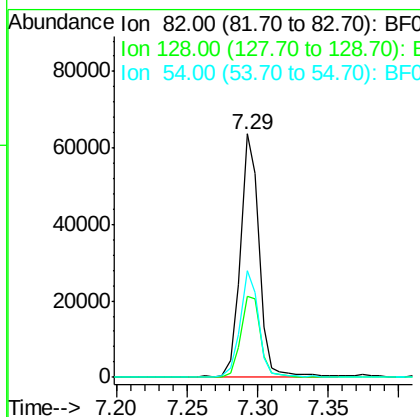
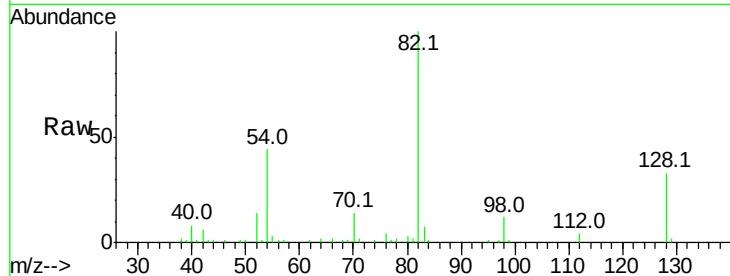
#23
 Nitrobenzene-d5
 Concen: 7.057 ng
 RT: 7.29 min Scan# 885
 Delta R.T. -0.03 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.4	34.0	51.0#
54	43.8	42.2	63.2

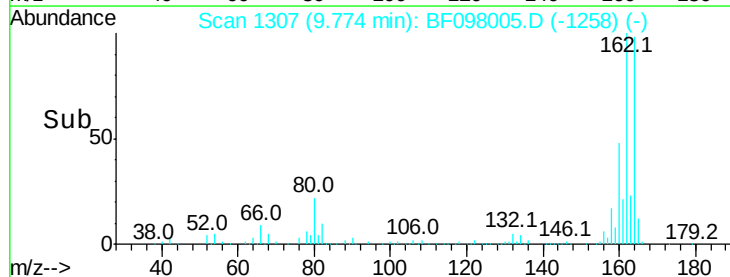
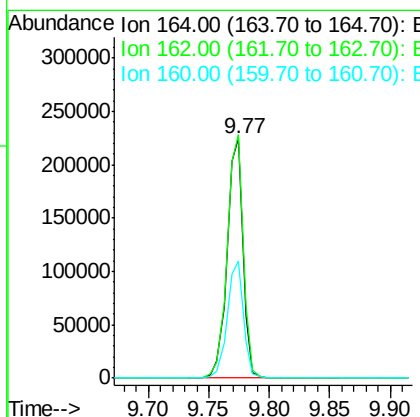
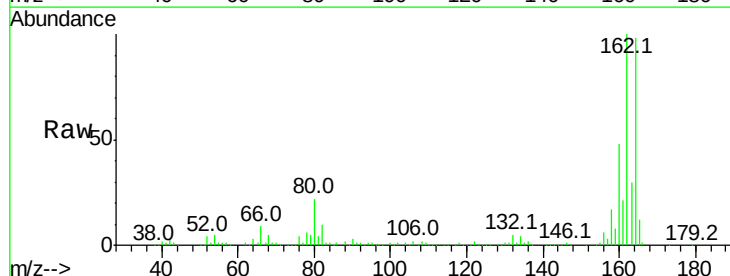
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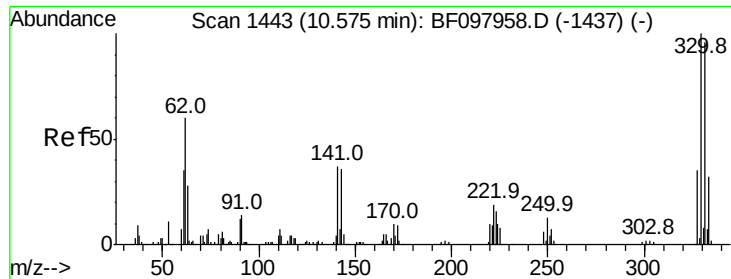
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	48.7	36.2	54.2





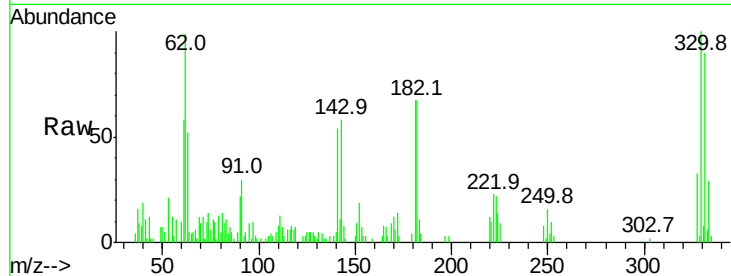
#41
 2,4,6-Tribromophenol
 Concen: 8.795 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.02 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Instrument :
 BNA_F
 ClientSampled :
 HY-SB440

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	92.4	76.6	115.0	
141	60.7	31.4	47.2	

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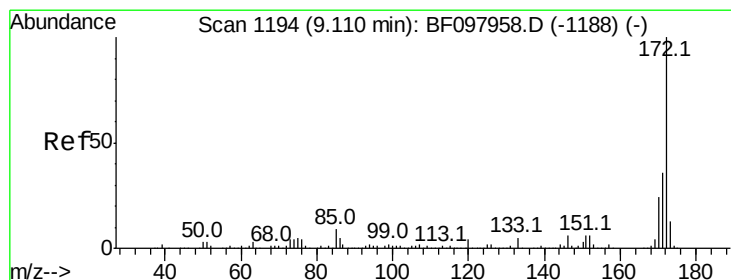
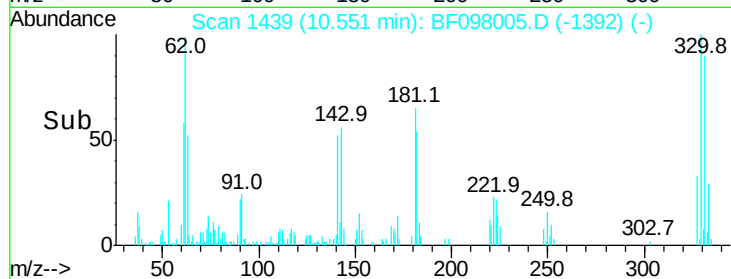
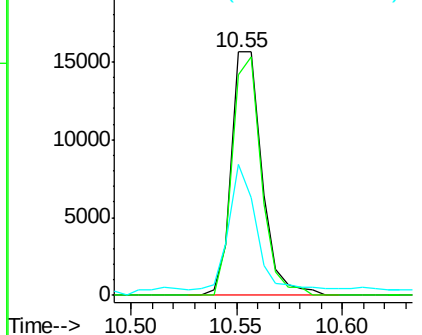


Abundance

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



#44
 2-Fluorobiphenyl
 Concen: 6.284 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.02 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

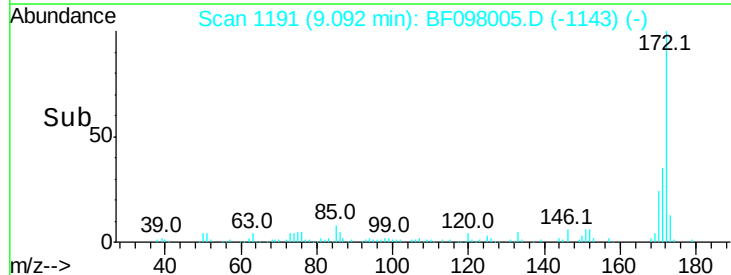
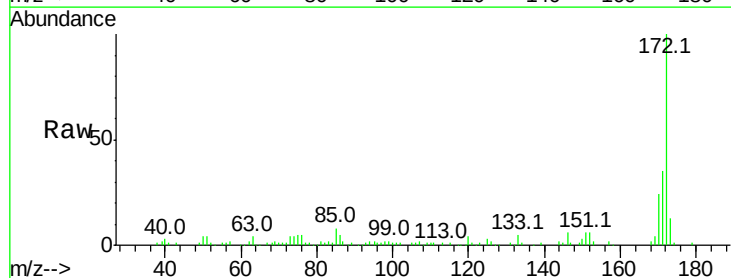
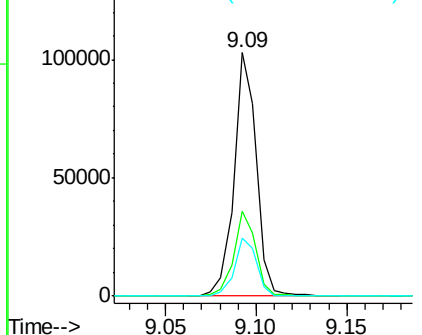
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.8	29.6	44.4	
170	23.8	19.8	29.8	

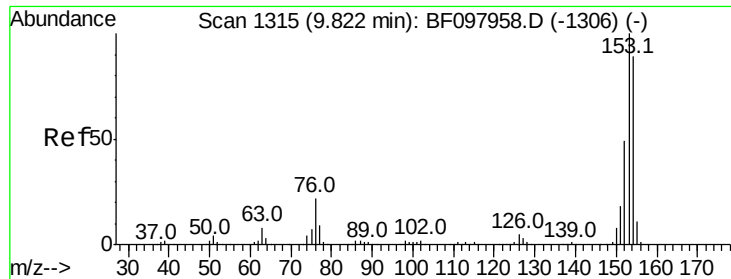
Abundance

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





#51

Acenaphthene

Concen: 2.170 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

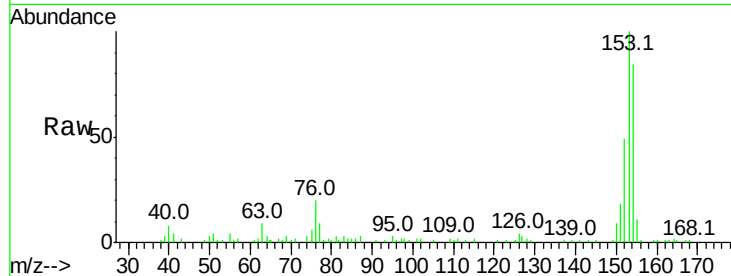
ClientSampleId :

HY-SB440

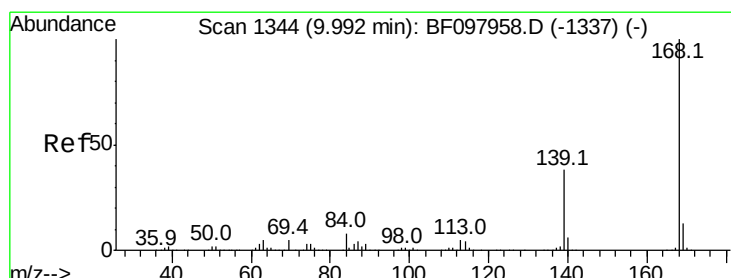
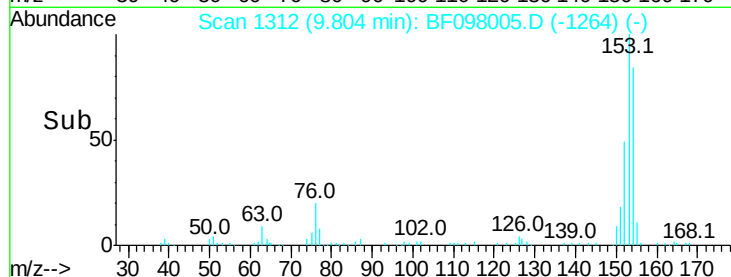
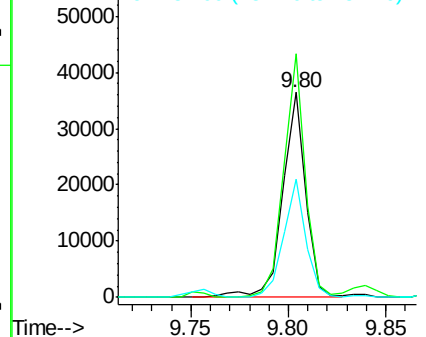
Tot Ion:	154	Resp:	29761
Ion Ratio	Lower	Upper	
154	100		
153	118.8	90.5	135.7
152	57.9	43.6	65.4

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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: 2.122 ng

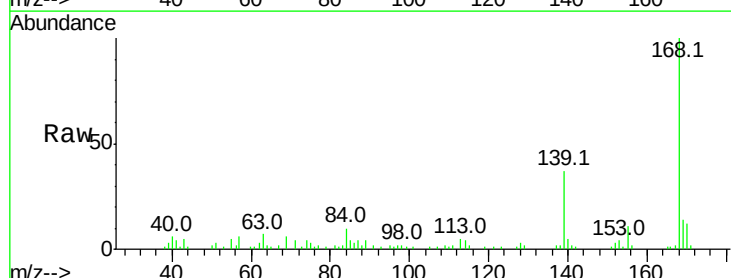
RT: 9.97 min Scan# 1341

Delta R.T. -0.02 min

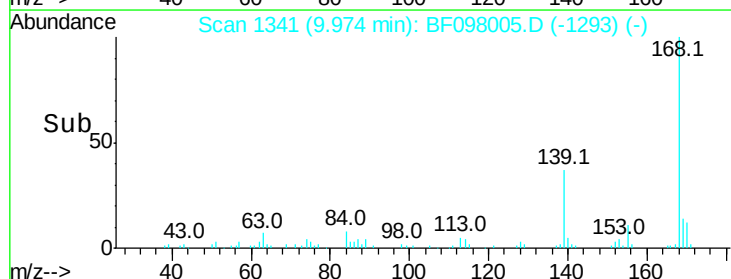
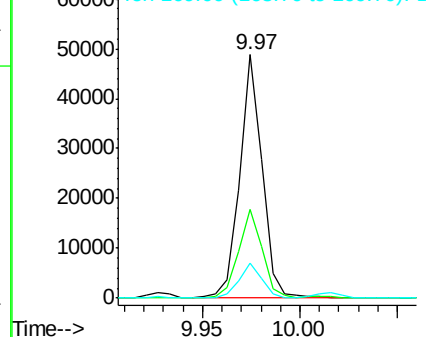
Lab File: BF098005.D

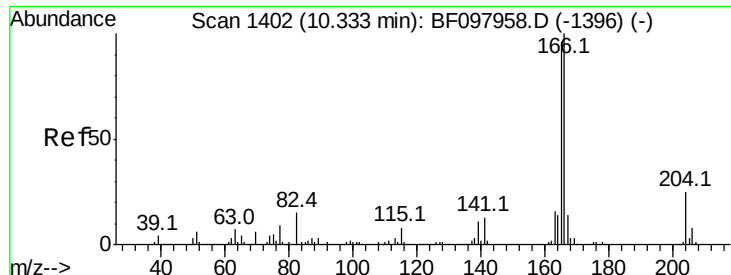
Acq: 24 Aug 2017 16:45

Tgt Ion:	168	Resp:	39006
Ion Ratio	Lower	Upper	
168	100		
139	36.6	30.6	45.8
169	14.5	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 4.603 ng

RT: 10.32 min Scan# 1399

Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampled :

HY-SB440

Tot Ion:166 Resp: 65412

Ion Ratio Lower Upper

166 100

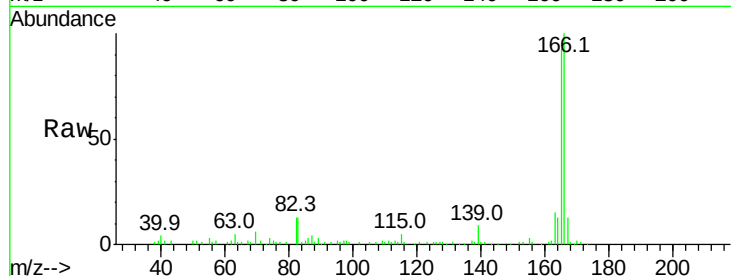
165 92.6 78.8 118.2

167 13.2 10.6 16.0

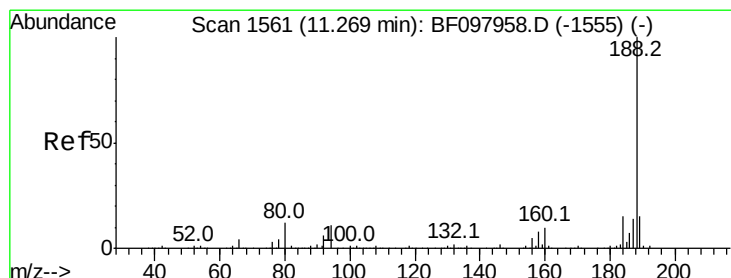
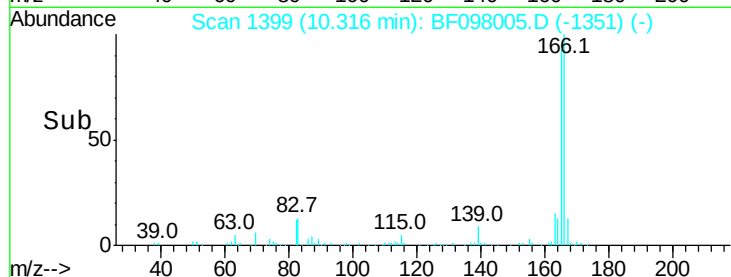
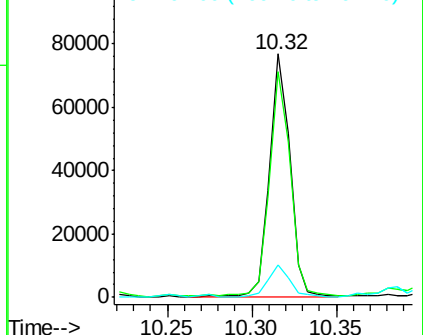
Manual Integrations
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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

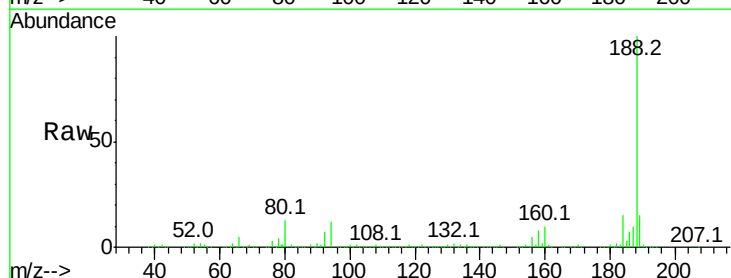
Tgt Ion:188 Resp: 399352

Ion Ratio Lower Upper

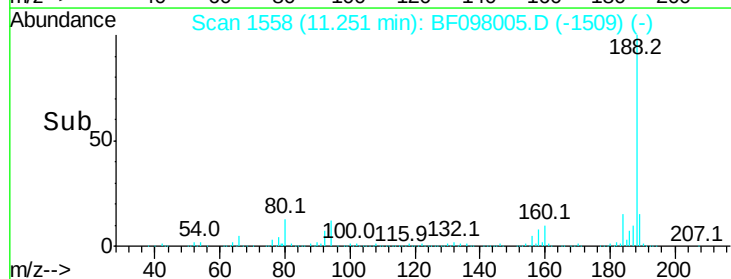
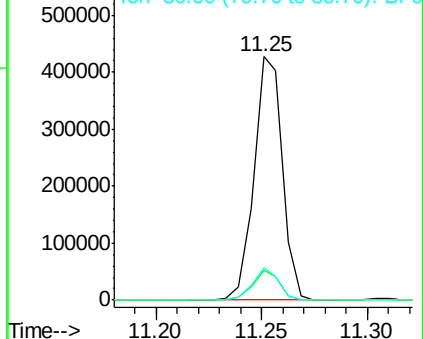
188 100

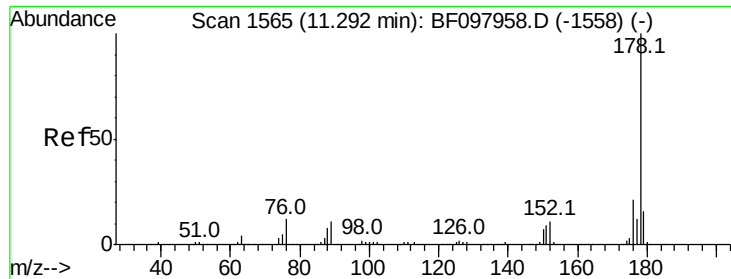
94 12.4 9.4 14.2

80 13.4 10.2 15.2



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





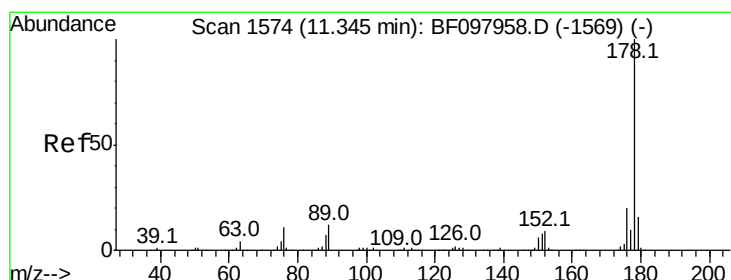
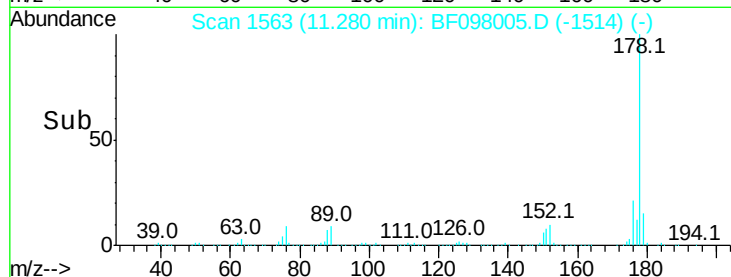
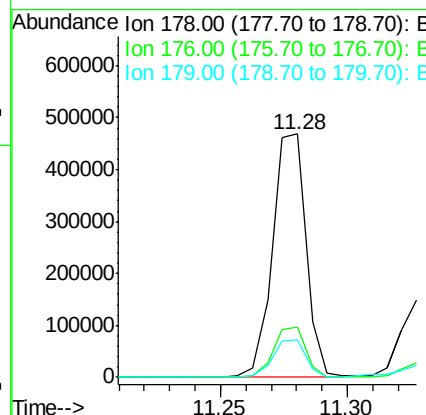
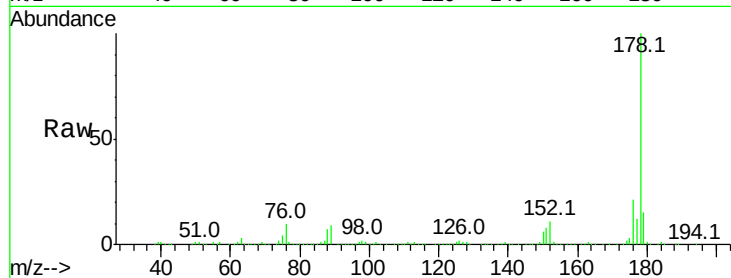
#70
Phenanthrene
Concen: 20.214 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampleId :
HY-SB440

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	16.2	24.4
179	15.4	12.6	19.0

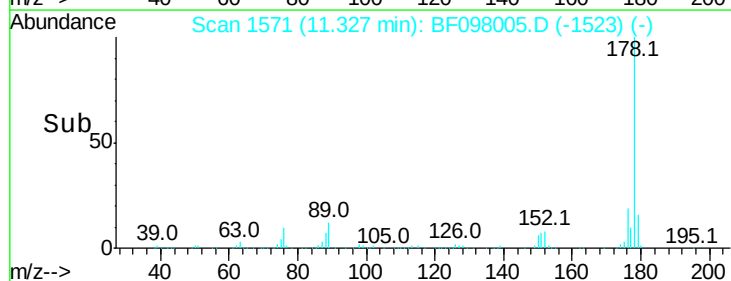
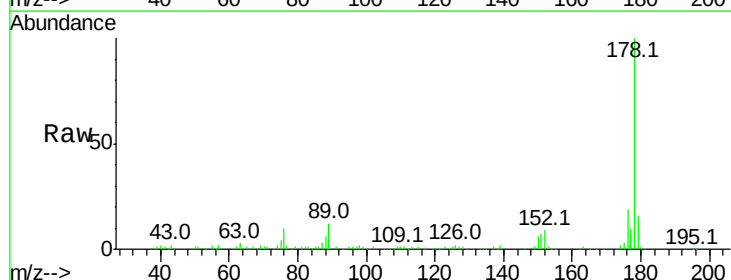
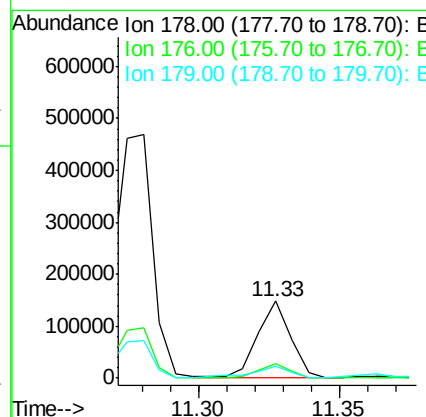
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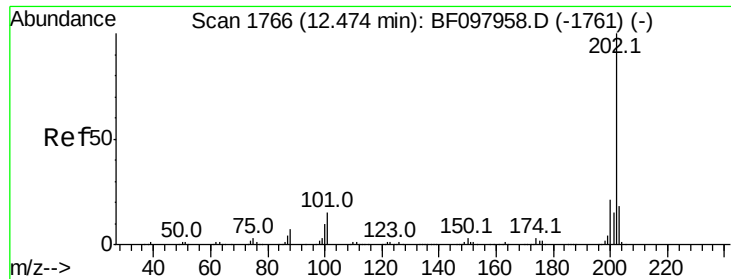
Sohil
8/25/2017 5:40:01 PM



#71
Anthracene
Concen: 5.473 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.8
179	15.8	12.7	19.1





#74

Fluoranthene

Concen: 19.705 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

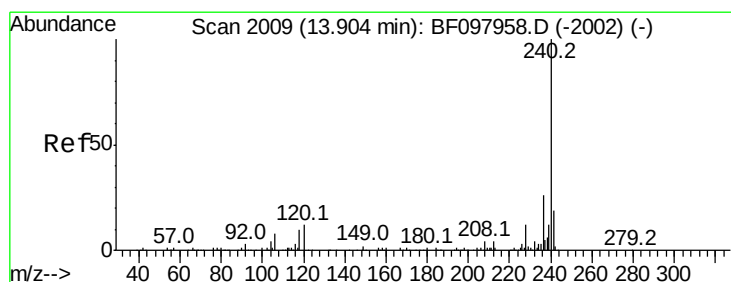
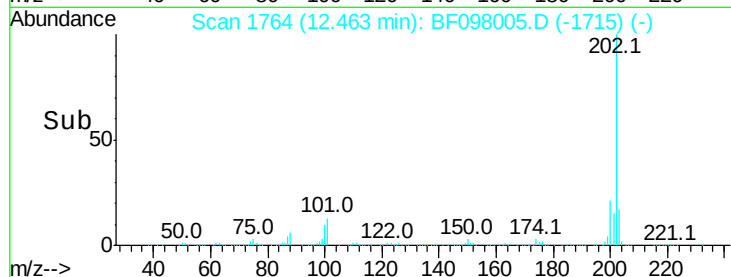
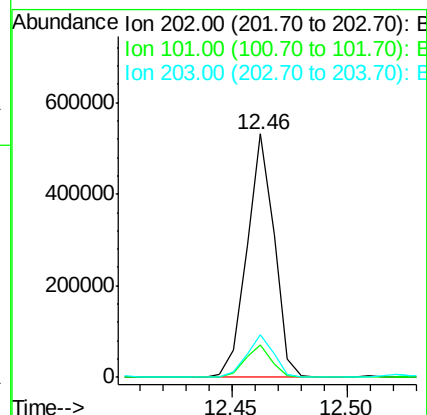
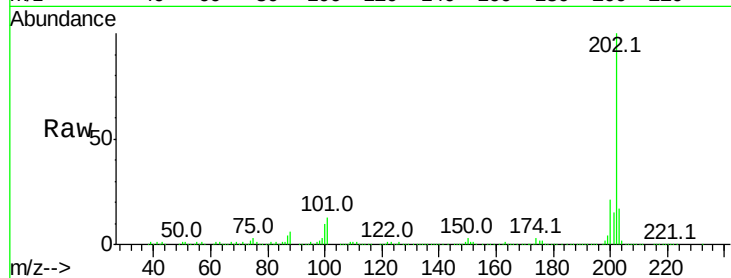
ClientSampled :

HY-SB440

Tot Ion:	202	Resp:	437684
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	33.2
203	17.4	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

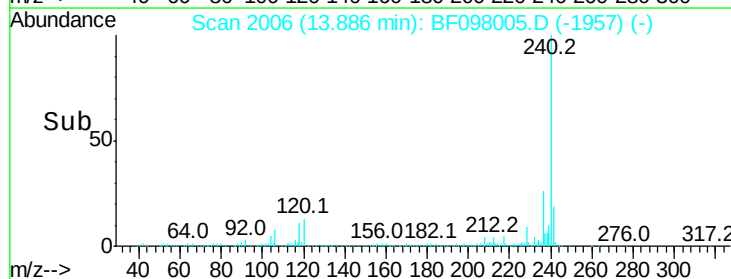
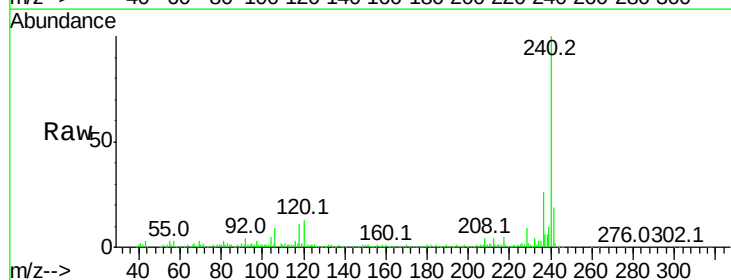
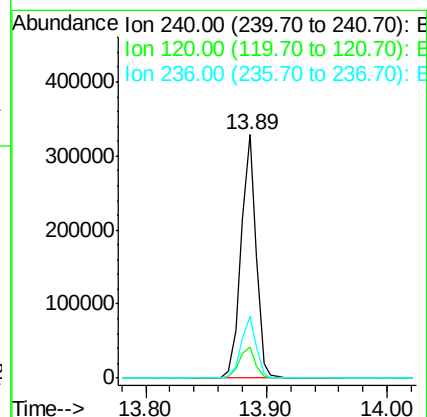
RT: 13.89 min Scan# 2006

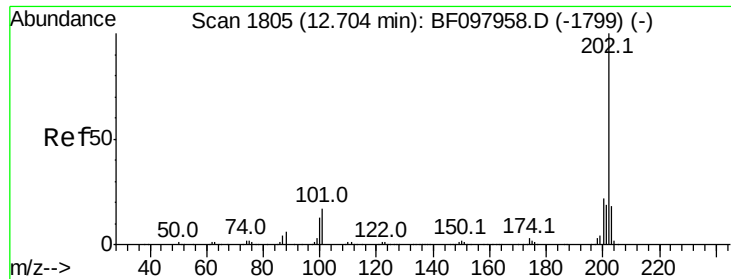
Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Tgt Ion:	240	Resp:	286798
Ion Ratio	Lower	Upper	
240	100		
120	12.7	5.8	8.8#
236	25.7	20.5	30.7





#77

Pvrene

Concen: 15.414 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

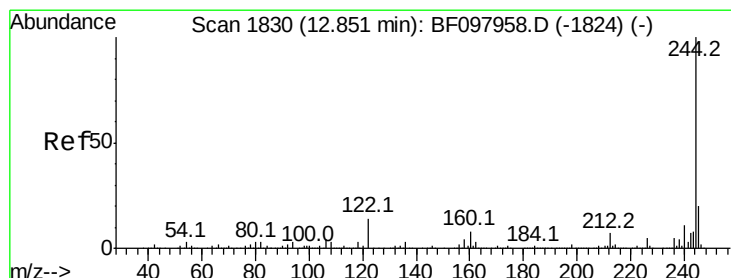
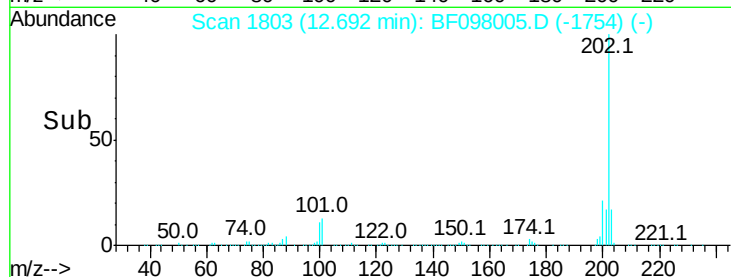
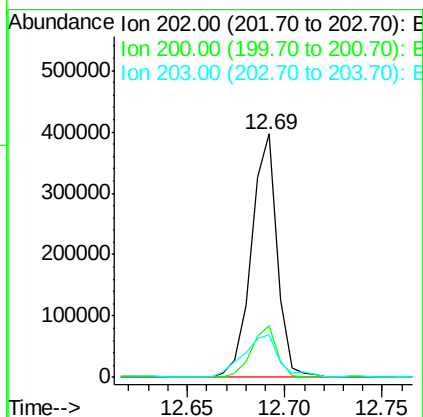
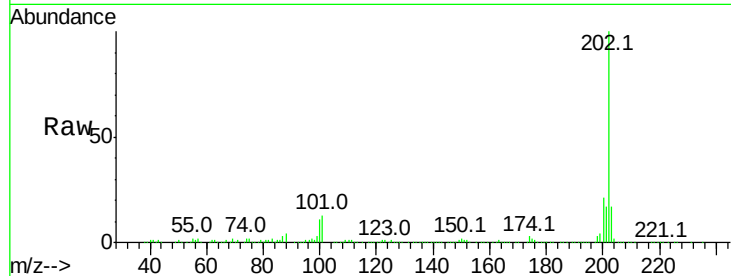
ClientSampled :

HY-SB440

Tot Ion:	202	Resp:	361562
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.6	26.4
203	17.4	14.4	21.6

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#78

Terphenyl-d14

Concen: 5.341 ng

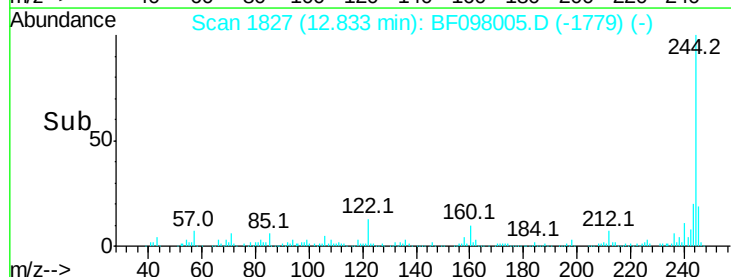
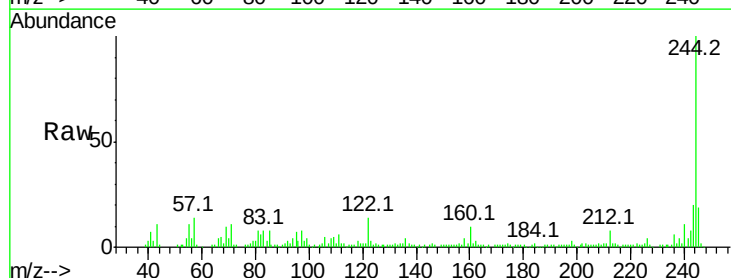
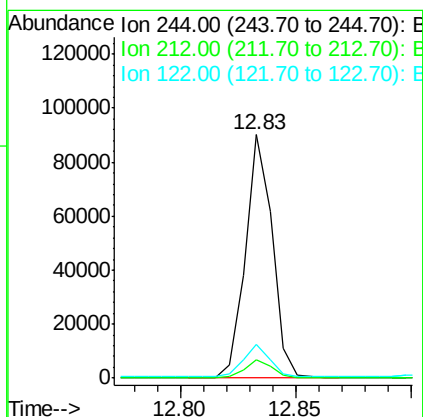
RT: 12.83 min Scan# 1827

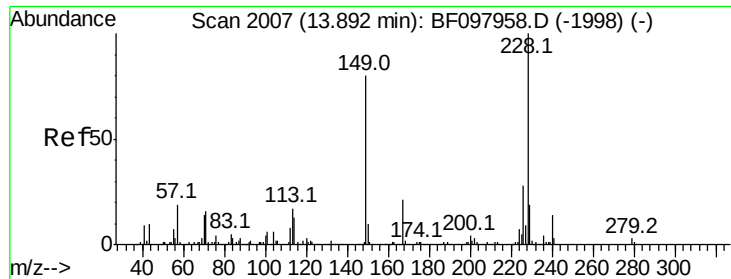
Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Tgt Ion:	244	Resp:	73461
Ion Ratio	Lower	Upper	
244	100		
212	7.6	6.0	9.0
122	14.0	10.3	15.5





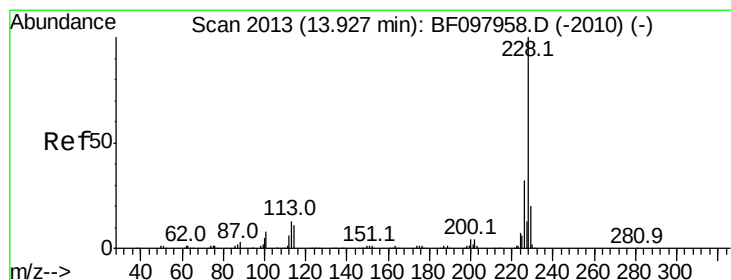
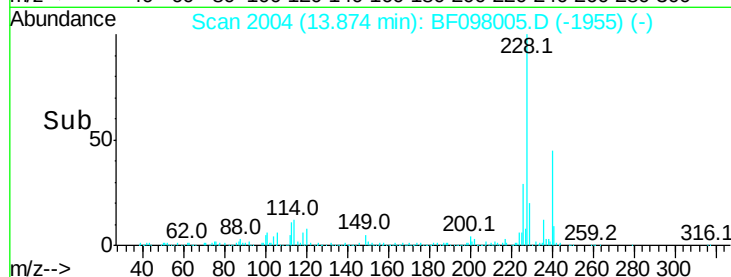
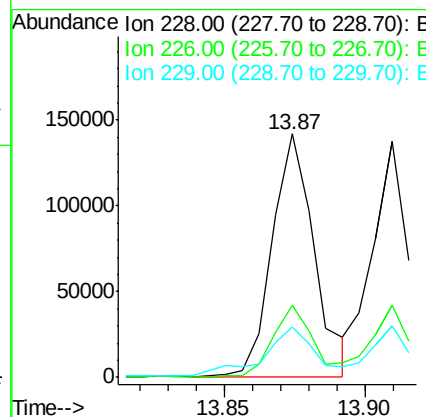
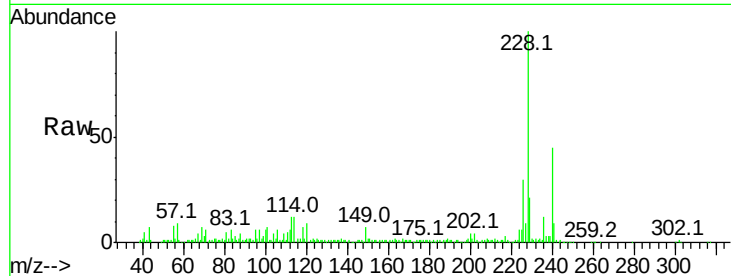
#80
Benzo(a)anthracene
Concen: 8.501 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.01 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampled :
HY-SB440

Tot Ion	Ratio	Resp	Lower	Upper
228	100	146132		
226	29.7	22.6	33.8	
229	20.5	16.3	24.5	

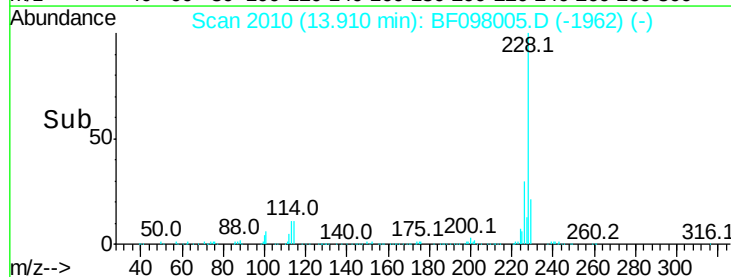
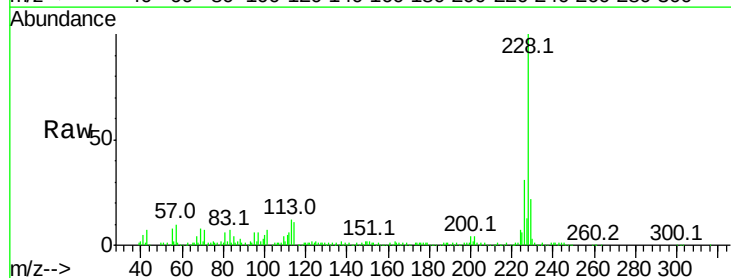
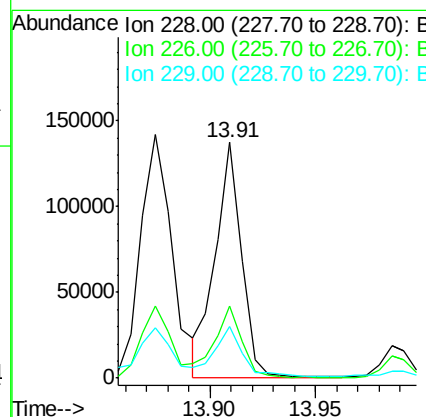
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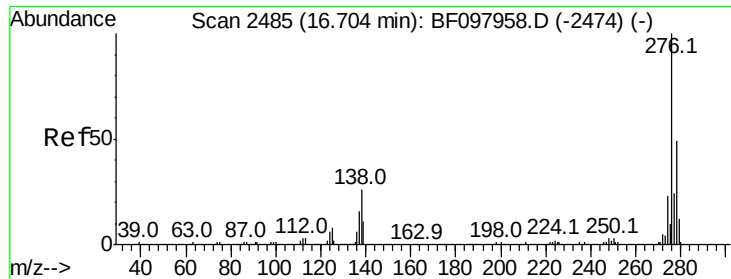
Sohil
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#82
Chrysene
Concen: 6.960 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	119008		
226	30.8	24.9	37.3	
229	21.9	15.8	23.6	





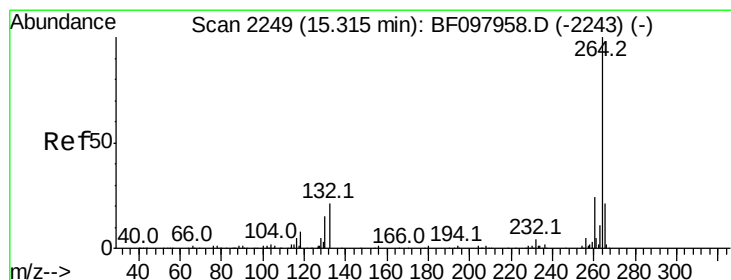
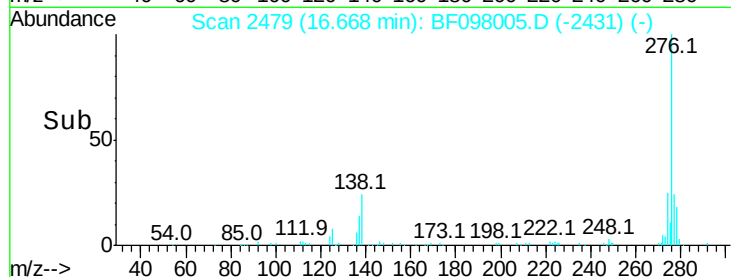
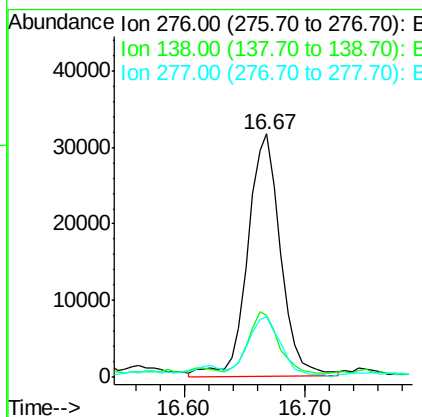
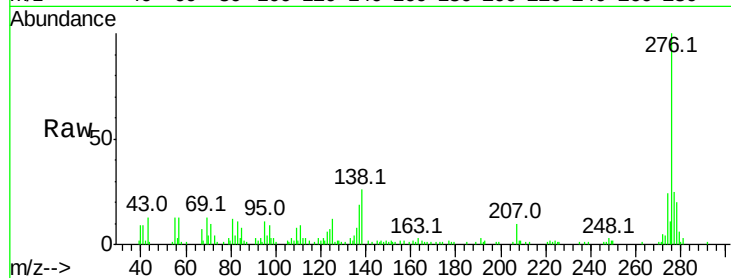
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.796 ng
RT: 16.67 min Scan# 2479
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampleId :
HY-SB440

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.6	27.8	41.6#
277	25.7	20.2	30.4

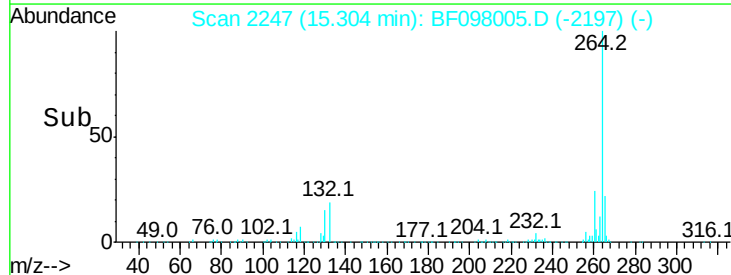
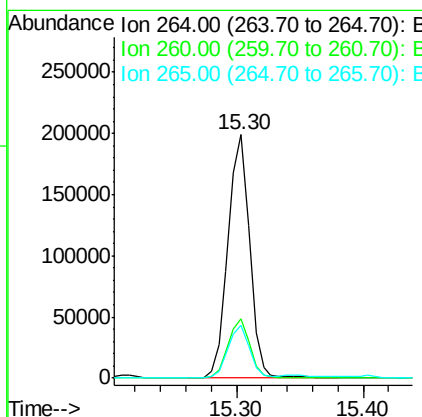
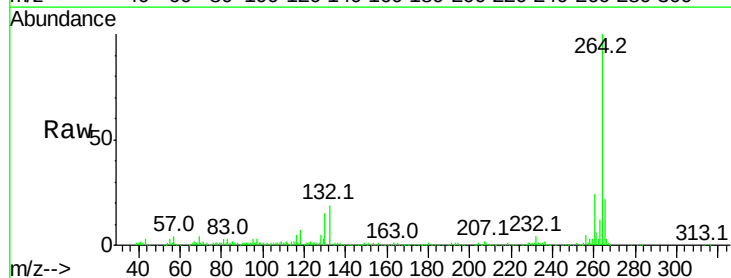
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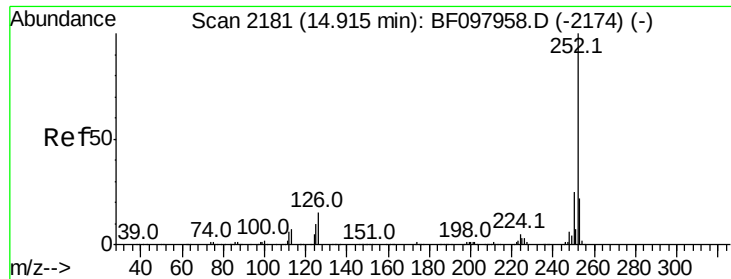
Sohil
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	21.5	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 9.499 ng m

RT: 14.90 min Scan# 2178

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

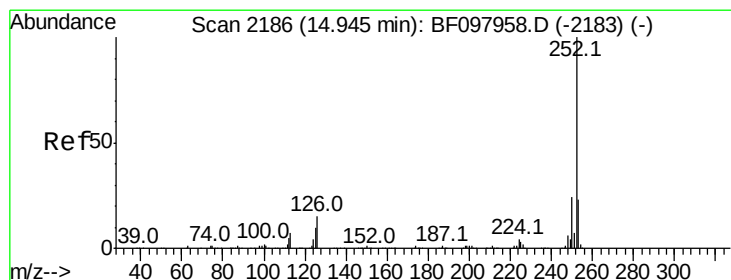
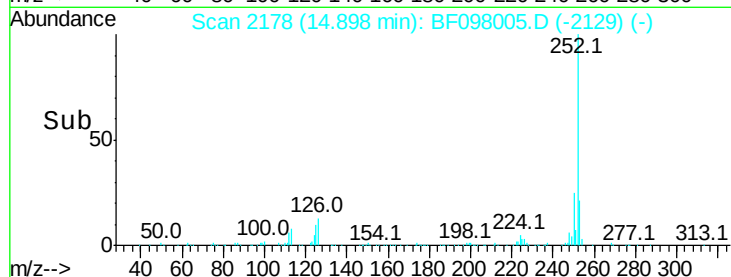
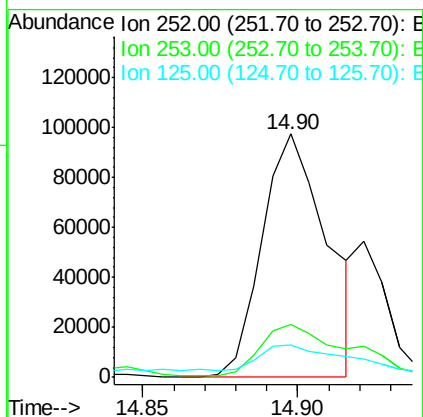
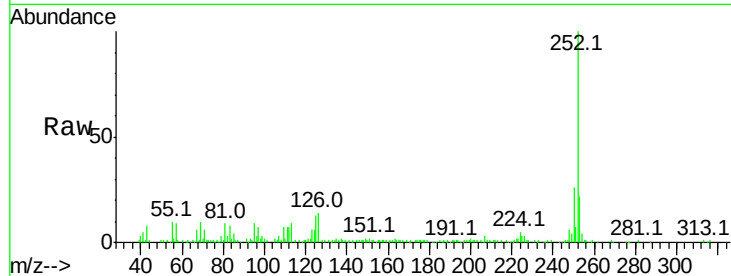
ClientSampleId :

HY-SB440

Tot Ion:	252	Resp:	141555
Ion Ratio	Lower	Upper	
252	100		
253	21.7	18.1	27.1
125	13.1	9.8	14.8

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#88

Benzo(k)fluoranthene

Concen: 2.892 ng m

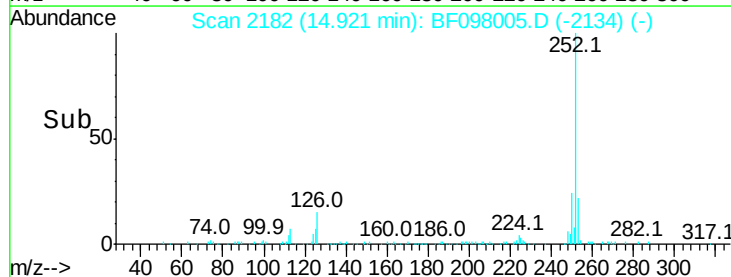
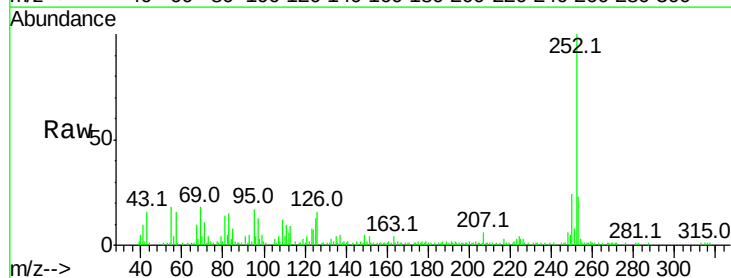
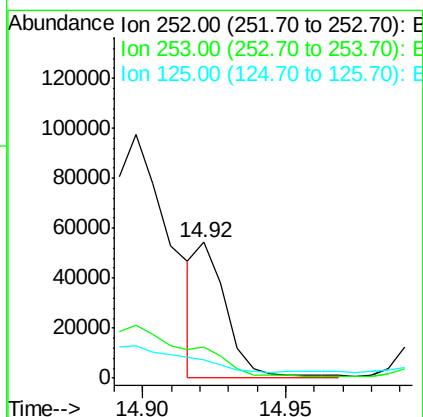
RT: 14.92 min Scan# 2182

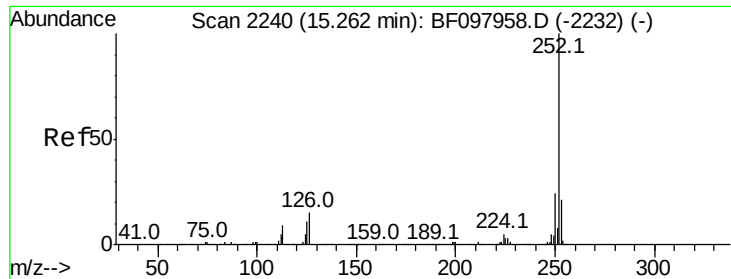
Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Tgt Ion:	252	Resp:	40485
Ion Ratio	Lower	Upper	
252	100		
253	22.6	18.4	27.6
125	13.3	13.1	19.7





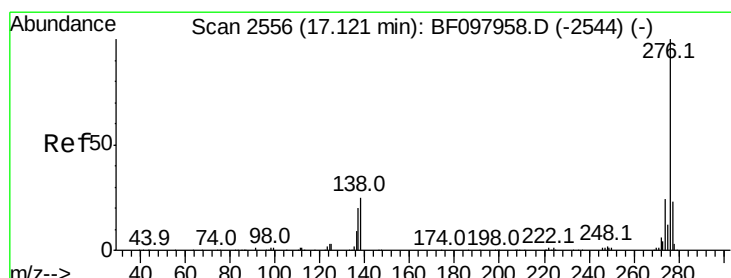
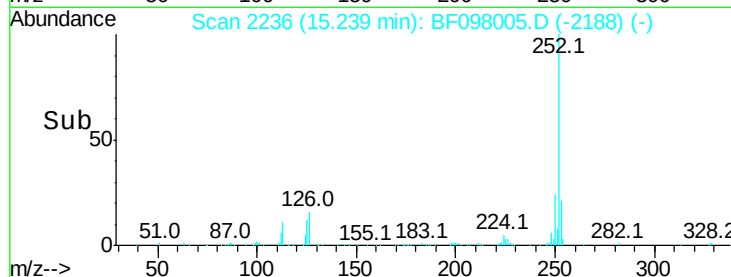
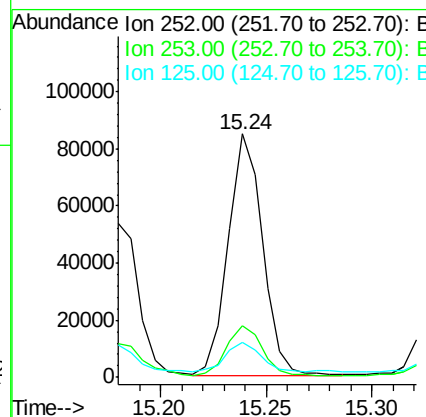
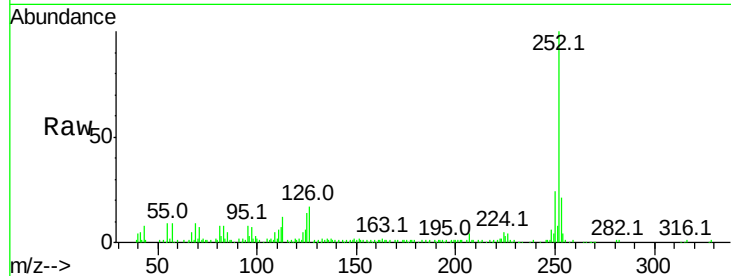
#89
Benzo(a)pyrene
Concen: 7.316 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampled :
HY-SB440

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	14.4	11.0	16.4

Manual Integrations
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8/25/2017 5:40:01 PM



#91
Benzo(g,h,i)perylene
Concen: 5.042 ng m
RT: 17.08 min Scan# 2549
Delta R.T. -0.03 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.6	28.0
138	25.3	25.4	38.0#

