

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072717\
 Data File : BF097120.D
 Acq On : 27 Jul 2017 14:10
 Operator : SJ/JU
 Sample : I4421-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-N7-SSW

Manual Integrations
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 7/28/2017 4:46:41 PM

Quant Time: Jul 27 16:37:11 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	99737	20.00	ng	0.00
21) Naphthalene-d8	7.77	136	321966	20.00	ng	-0.01
38) Acenaphthene-d10	9.53	164	106452	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	207963	20.00	ng	0.00
75) Chrysene-d12	13.62	240	186858	20.00	ng	0.00
86) Perylene-d12	14.97	264	165303	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	747349	112.96	ng	0.00
7) Phenol-d6	6.16	99	907103	120.10	ng	0.00
23) Nitrobenzene-d5	7.06	82	522649	95.23	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	116025	137.95	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	611646	97.51	ng	0.00
78) Terphenyl-d14	12.57	244	484960	52.92	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.17	94	40101	4.476	ng	91
11) bis(2-Chloroethyl)ether	6.24	93	891802	125.857	ng	87
13) 1,4-Dichlorobenzene	6.51	146	52617	6.964	ng	# 93
14) 1,2-Dichlorobenzene	6.66	146	78932	11.965	ng	99
31) Naphthalene	7.80	128	1091679	71.929	ng	97
37) 2-Methylnaphthalene	8.50	142	1254681	130.568	ng	97
45) 1,1'-Biphenyl	8.96	154	123475	13.580	ng	96
49) Dimethylphthalate	9.26	163	168484	20.842	ng	# 97
51) Acenaphthene	9.56	154	88338	14.602	ng	91
54) Dibenzofuran	9.73	168	75059m	9.315	ng	
57) Fluorene	10.07	166	132633	21.900	ng	# 83
70) Phenanthrene	11.02	178	163227	14.649	ng	# 94
71) Anthracene	11.07	178	52499	4.600	ng	# 84
74) Fluoranthene	12.20	202	190355	17.438	ng	98
77) Pyrene	12.43	202	195868	12.804	ng	97
80) Benzo(a)anthracene	13.61	228	126471	10.460	ng	97
82) Chrysene	13.64	228	127999	10.842	ng	97
85) Indeno(1,2,3-cd)pyrene	16.19	276	73381	7.249	ng	95
87) Benzo(b)fluoranthene	14.61	252	167606m	16.867	ng	
88) Benzo(k)fluoranthene	14.62	252	70625m	7.459	ng	
89) Benzo(a)pyrene	14.92	252	140448	15.443	ng	# 91
90) Dibenzo(a,h)anthracene	16.19	278	20499	2.749	ng	# 74
91) Benzo(g,h,i)perylene	16.55	276	76807	9.821	ng	91

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

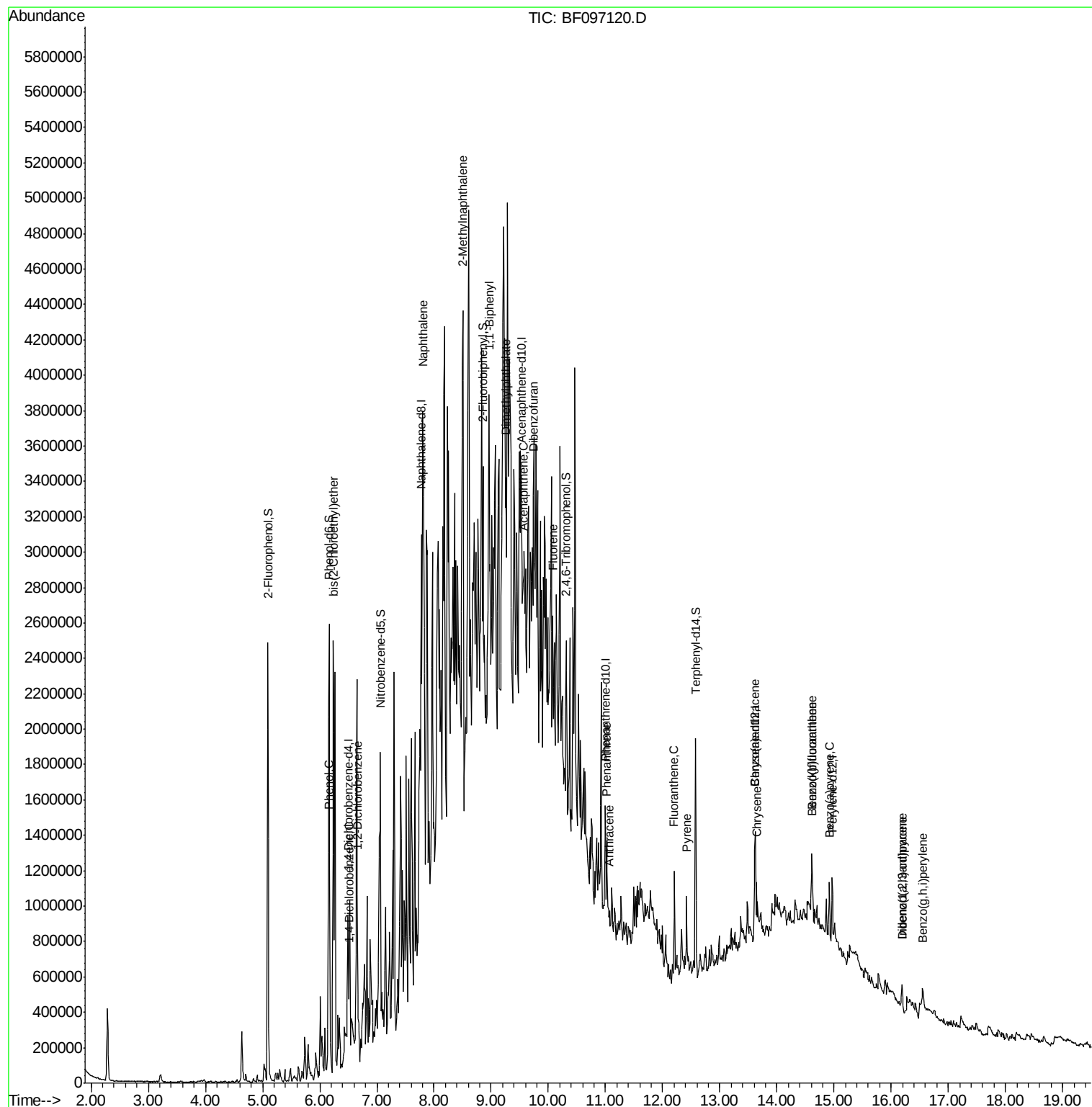
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072717\
Data File : BF097120.D
Acq On : 27 Jul 2017 14:10
Operator : SJ/JU
Sample : I4421-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

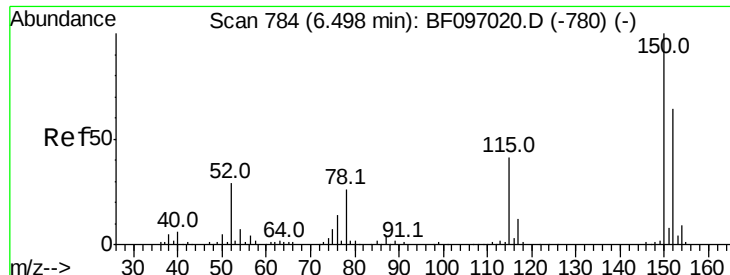
Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

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Quant Time: Jul 27 16:37:11 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

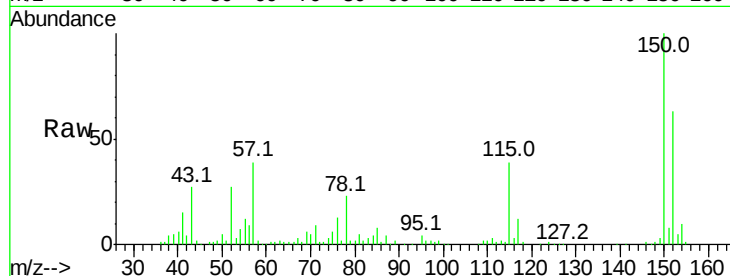
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.49 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Instrument :
BNA_F
ClientSampled :
E2-N7-SSW

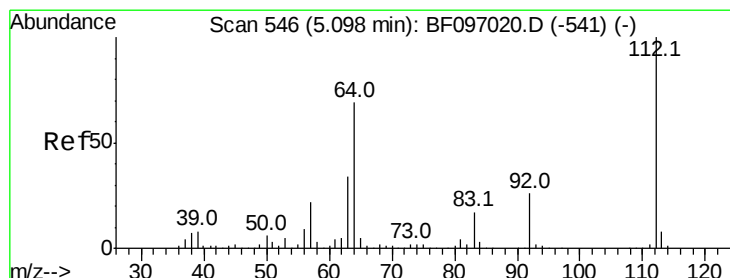
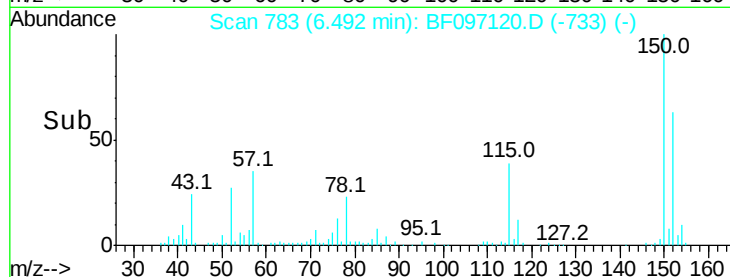
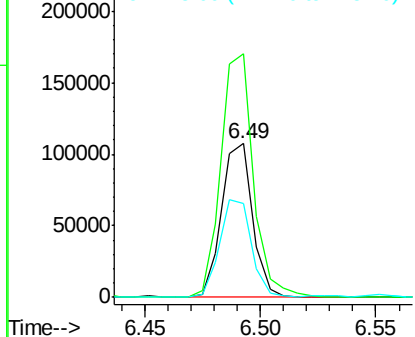
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	126.2	189.2
115	61.4	52.2	78.2

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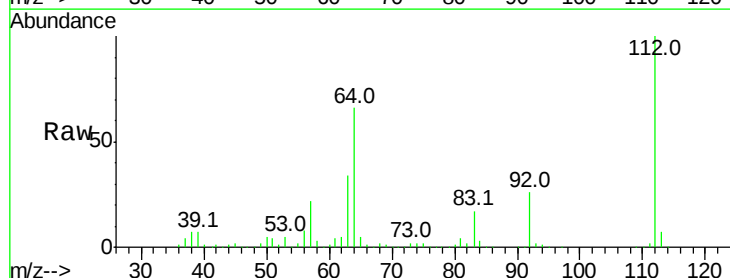
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



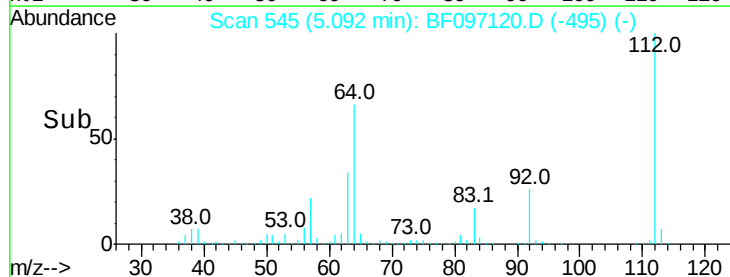
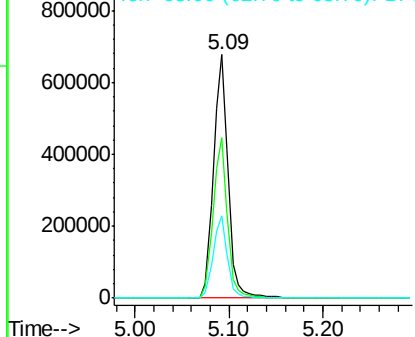
#5

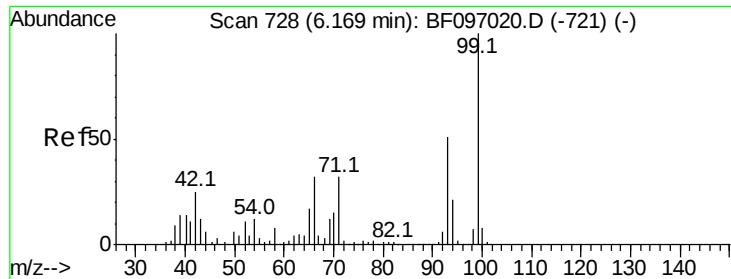
2-Fluorophenol
Concen: 112.959 ng
RT: 5.09 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	46.0	69.0
63	33.7	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 120.097 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

ClientSampled :

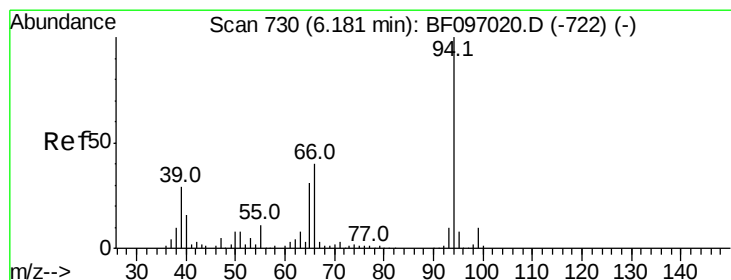
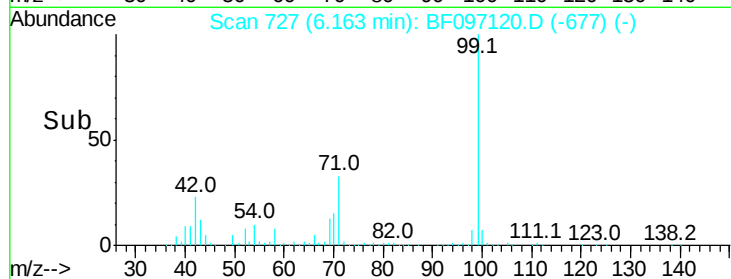
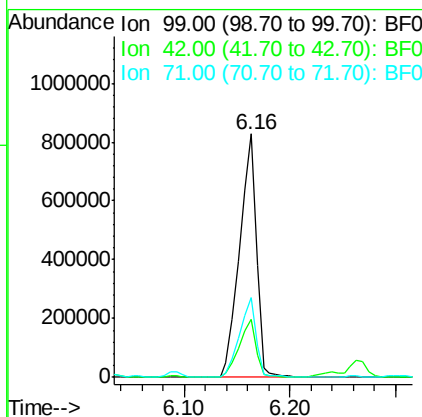
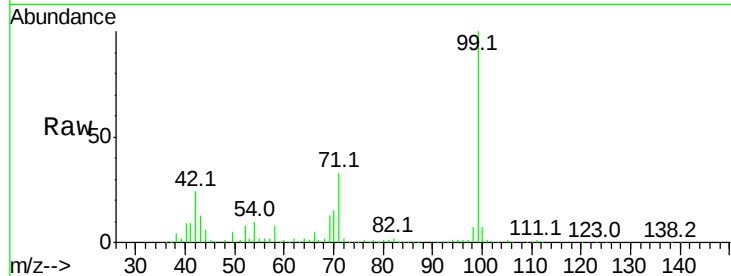
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Tot Ion:	99	Resp:	907103
Ion Ratio	Lower	Upper	
99	100		
42	23.6	13.5	20.3#
71	32.7	24.5	36.7

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#10

Phenol

Concen: 4.476 ng

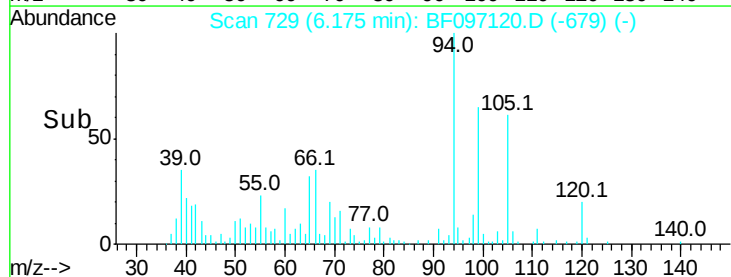
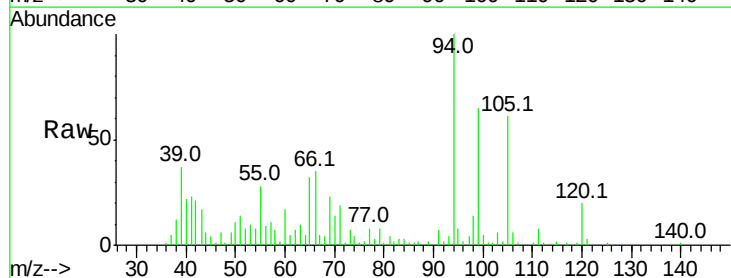
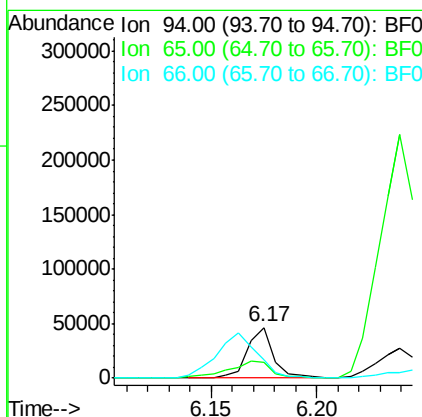
RT: 6.17 min Scan# 729

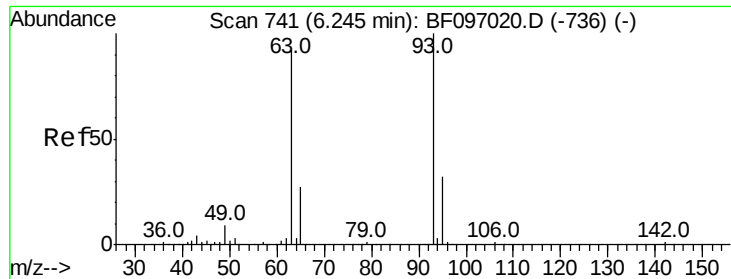
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:	94	Resp:	40101
Ion Ratio	Lower	Upper	
94	100		
65	31.8	9.9	49.9
66	35.3	23.1	63.1





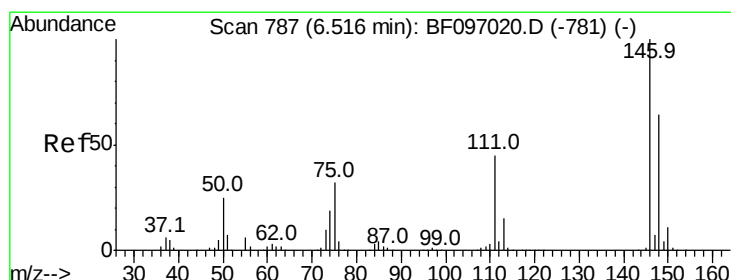
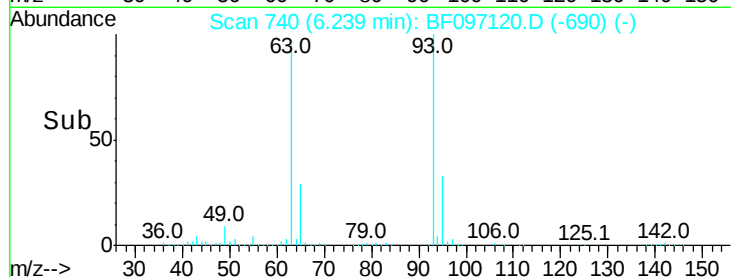
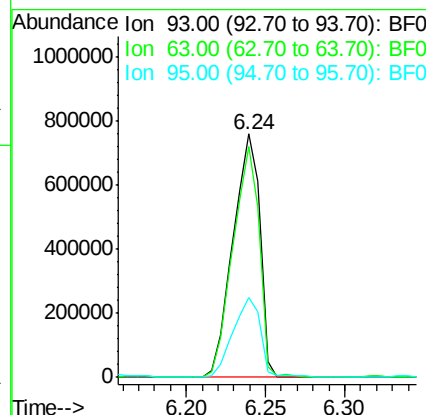
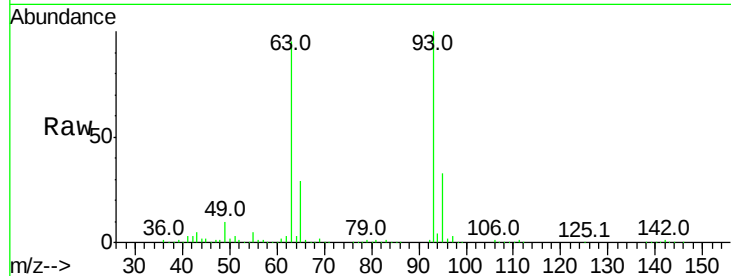
#11
 bis(2-Chloroethyl)ether
 Concen: 125.857 ng
 RT: 6.24 min Scan# 740
 Delta R.T. -0.01 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Instrument :
 BNA_F
 ClientSampleId :
 E2-N7-SSW

Tot Ion	Ratio	Resp	Lower	Upper
93	100	891802		
63	94.7	59.2	99.2	
95	33.0	12.8	52.8	

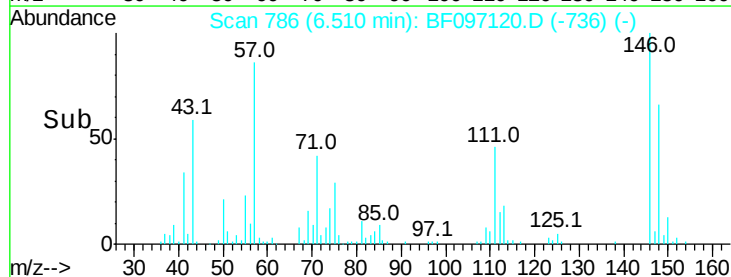
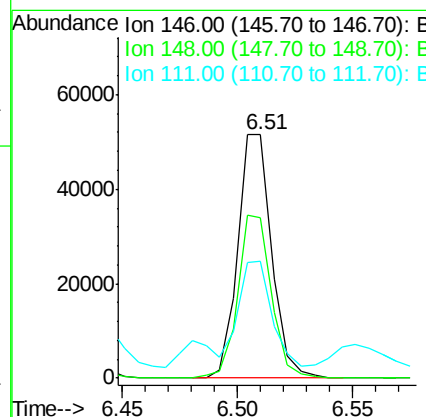
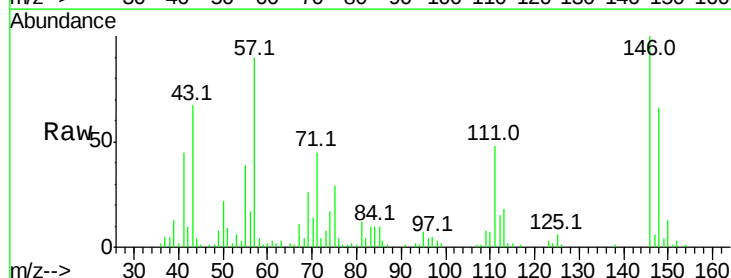
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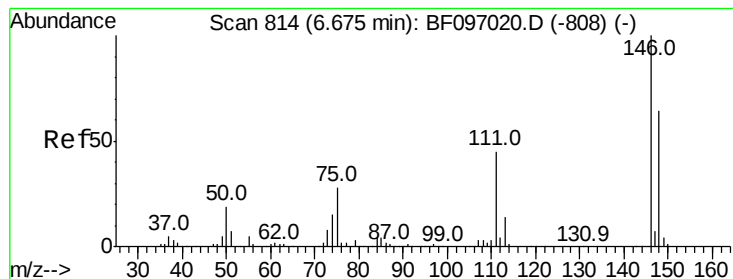
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#13
 1,4-Dichlorobenzene
 Concen: 6.964 ng
 RT: 6.51 min Scan# 786
 Delta R.T. -0.01 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	52617		
148	65.7	52.2	78.2	
111	48.0	30.3	45.5	





#14

1,2-Dichlorobenzene

Concen: 11.965 ng

RT: 6.66 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

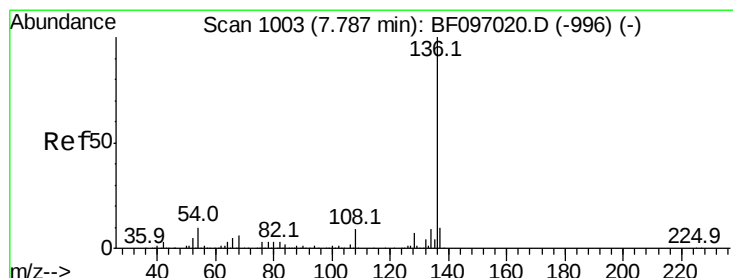
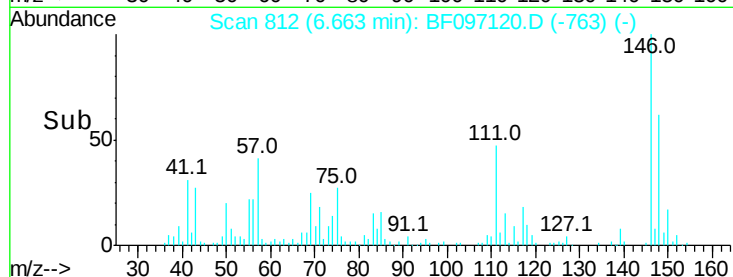
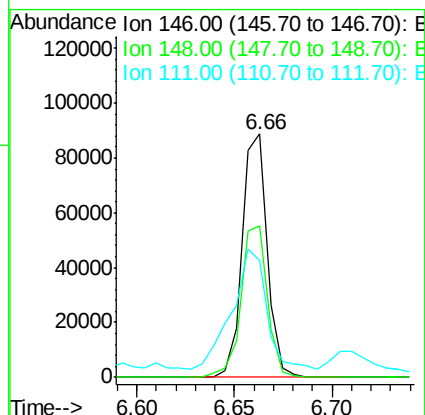
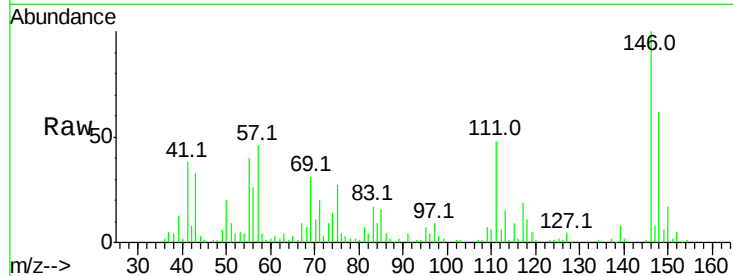
ClientSampleId :

E2-N7-SSW

Tot Ion:	146	Resp:	78932
Ion Ratio	Lower	Upper	
146	100		
148	62.4	50.4	75.6
111	48.1	38.2	57.4

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#21

Naphthalene-d8

Concen: 20.000 ng

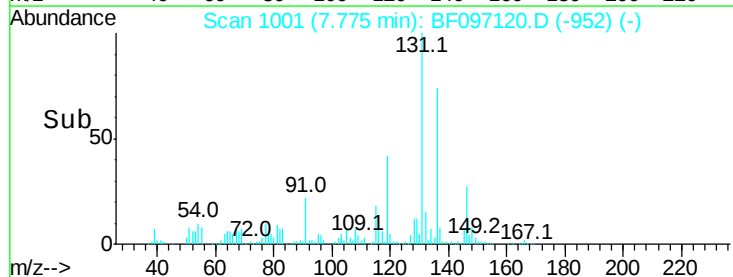
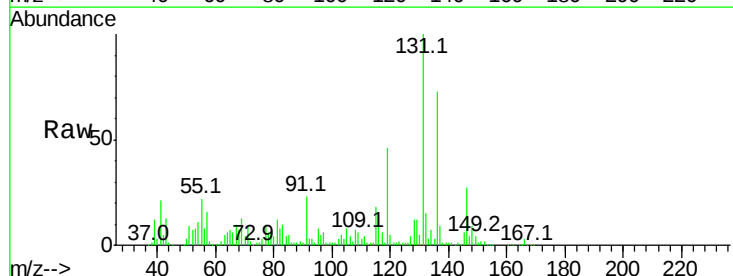
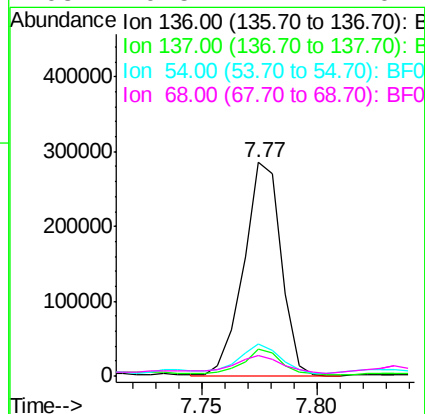
RT: 7.77 min Scan# 1001

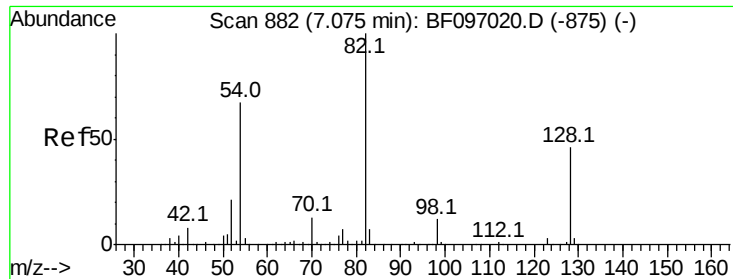
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:	136	Resp:	321966
Ion Ratio	Lower	Upper	
136	100		
137	12.4	8.5	12.7
54	15.2	4.9	7.3#
68	9.5	4.1	6.1#





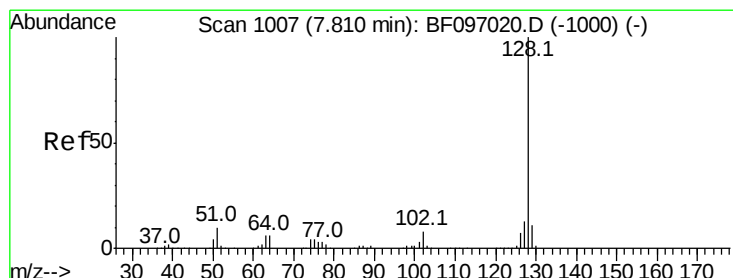
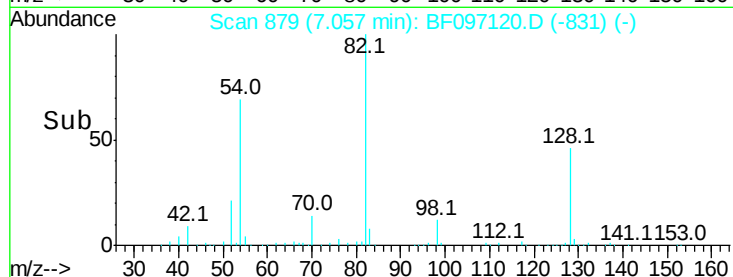
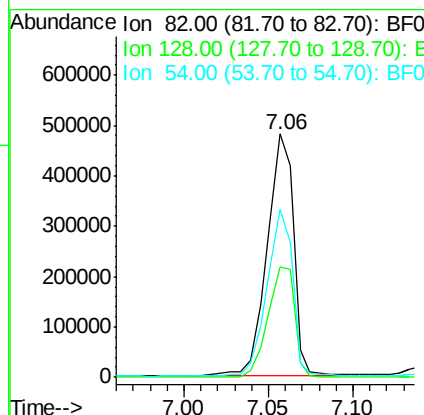
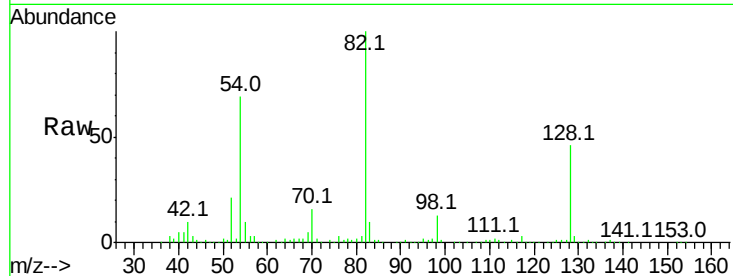
#23
Nitrobenzene-d5
Concen: 95.230 ng
RT: 7.06 min Scan# 879
Delta R.T. -0.02 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.0	51.0
54	68.9	42.2	63.2

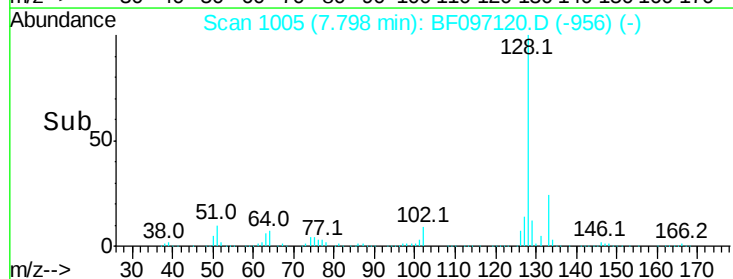
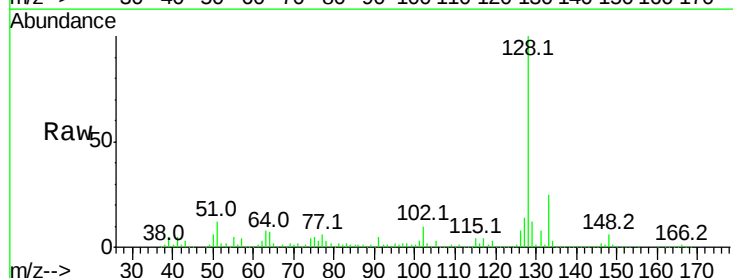
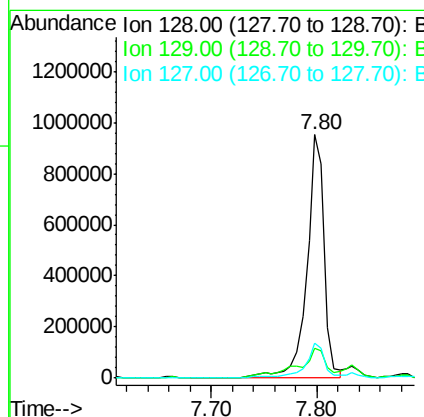
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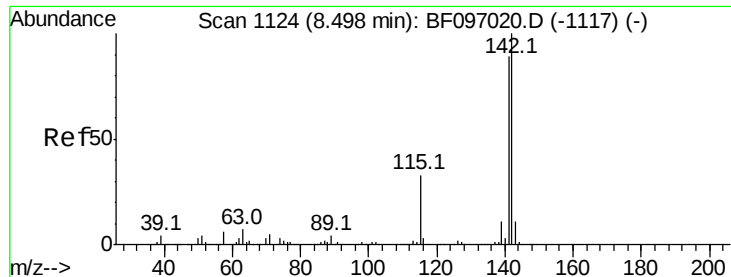
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#31
Naphthalene
Concen: 71.929 ng
RT: 7.80 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.0	13.6
127	14.4	10.8	16.2





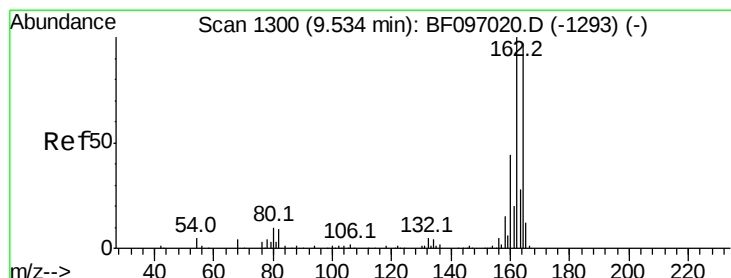
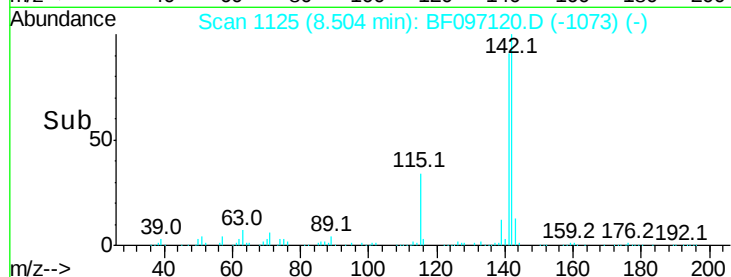
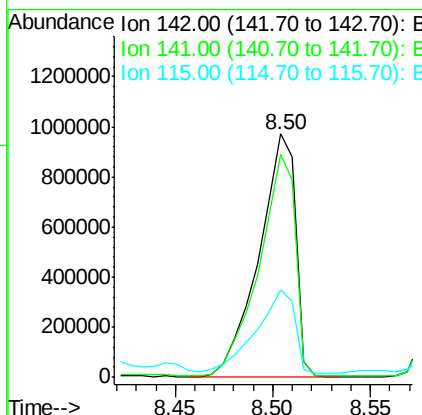
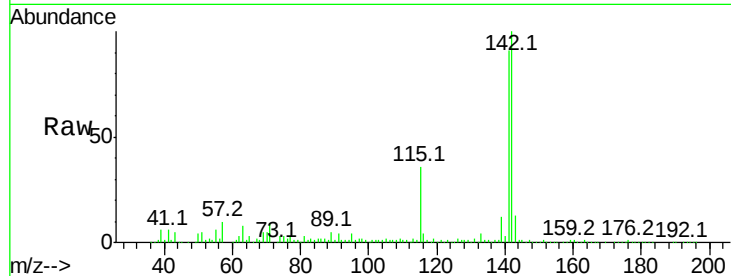
#37
2-Methylnaphthalene
Concen: 130.568 ng
RT: 8.50 min Scan# 1125
Delta R.T. 0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.3	106.9
115	36.2	27.1	40.7

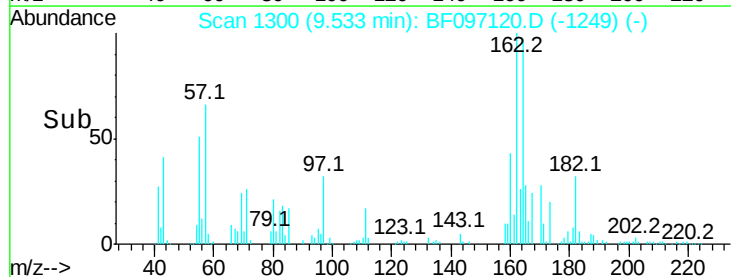
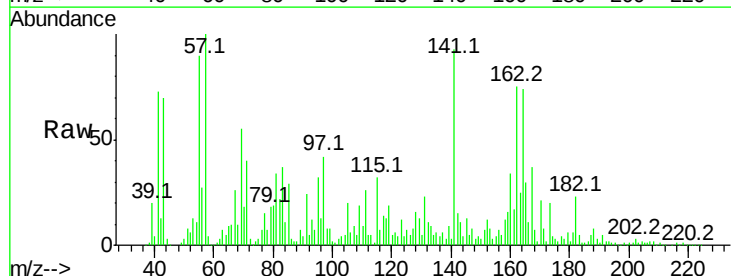
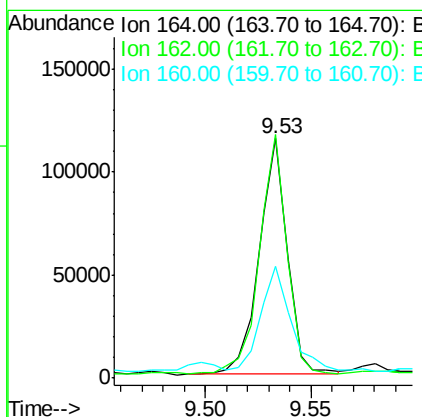
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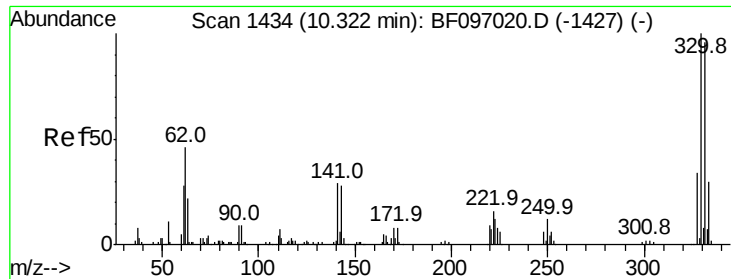
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.00 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.6	123.8
160	46.7	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 137.949 ng

RT: 10.32 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

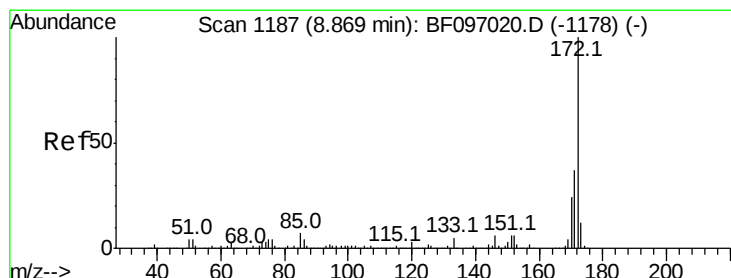
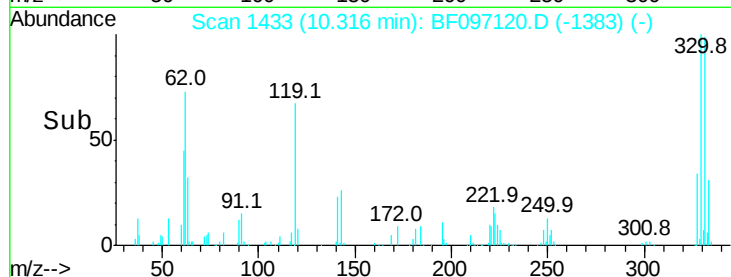
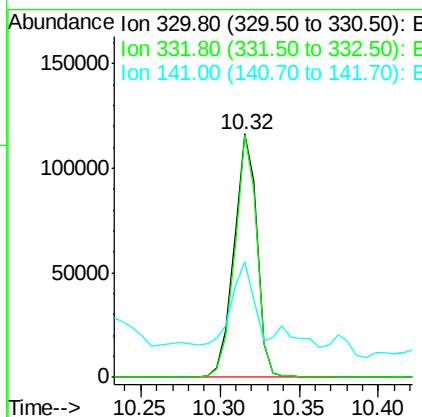
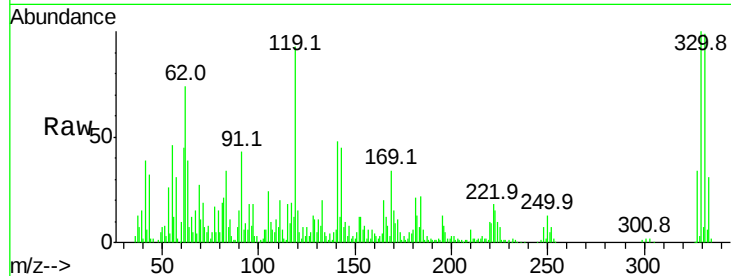
ClientSampleId :

E2-N7-SSW

Tot Ion:	330	Resp:	116025
Ion Ratio	Lower	Upper	
330	100		
332	95.7	76.6	115.0
141	37.0	31.4	47.2

Manual Integrations
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#44

2-Fluorobiphenyl

Concen: 97.511 ng

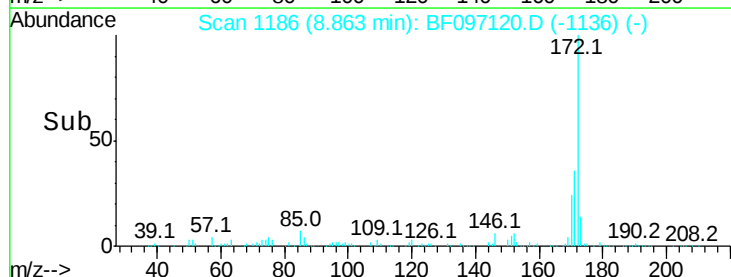
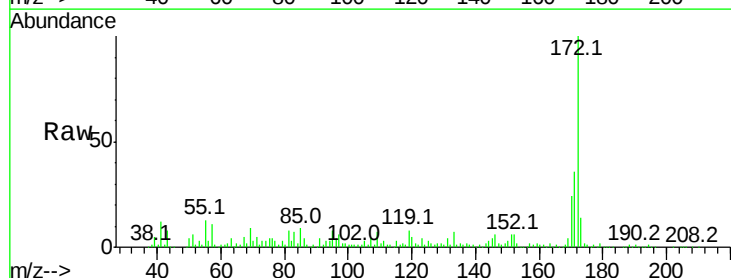
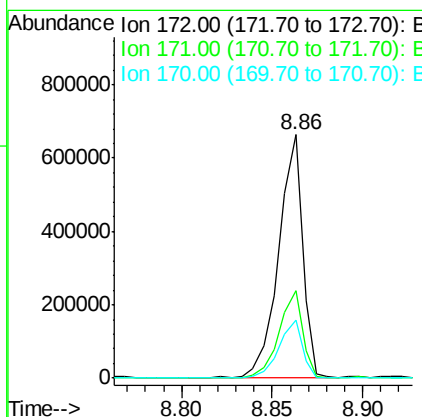
RT: 8.86 min Scan# 1186

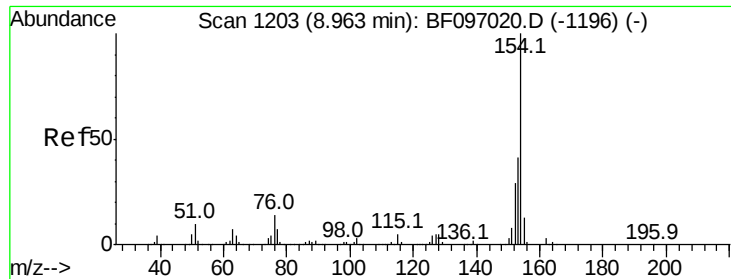
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:	172	Resp:	611646
Ion Ratio	Lower	Upper	
172	100		
171	35.7	29.6	44.4
170	24.0	19.8	29.8





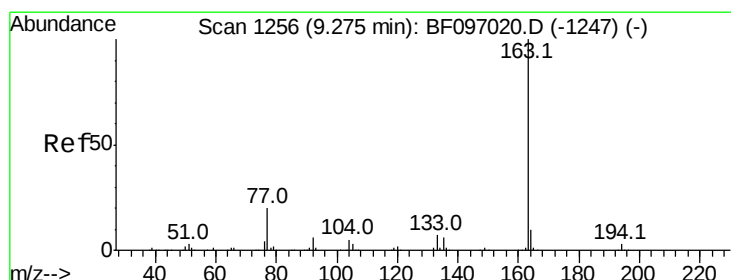
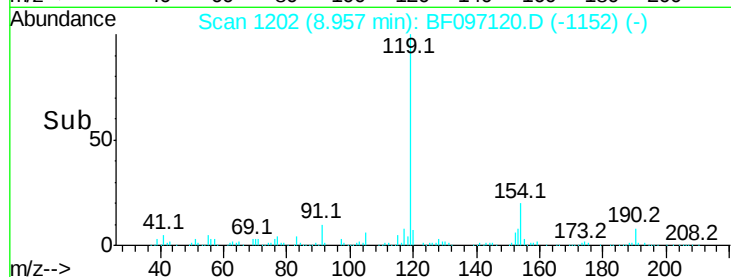
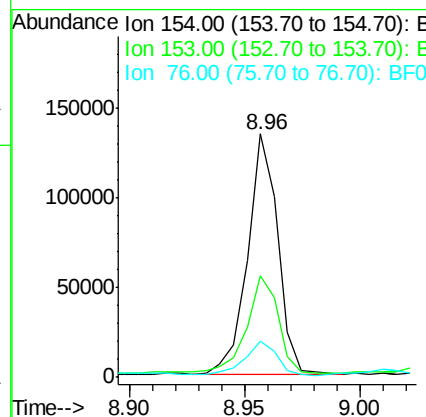
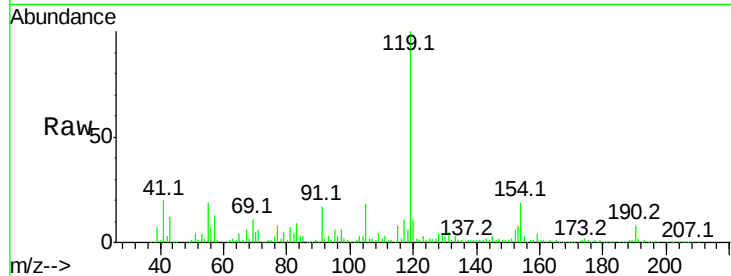
#45
 1,1'-Biphenyl
 Concen: 13.580 ng
 RT: 8.96 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Instrument :
 BNA_F
 ClientSampleId :
 E2-N7-SSW

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	41.9	21.2	61.2	
76	15.1	0.0	29.9	

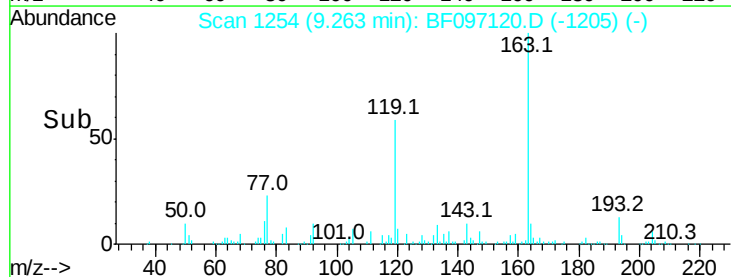
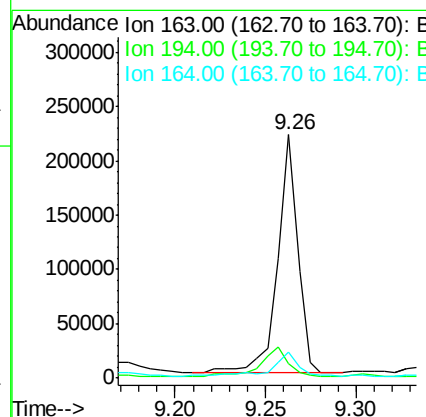
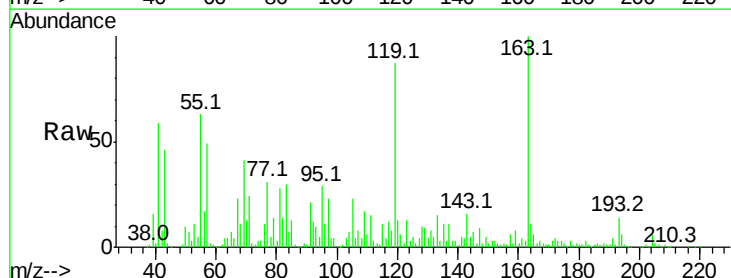
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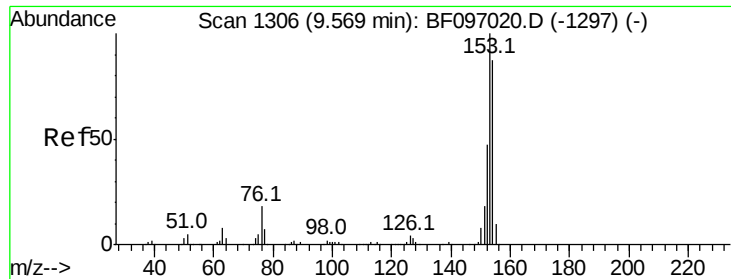
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#49
 Dimethylphthalate
 Concen: 20.842 ng
 RT: 9.26 min Scan# 1254
 Delta R.T. -0.01 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	6.1	2.6	4.0#	
164	10.8	8.4	12.6	





#51

Acenaphthene

Concen: 14.602 ng

RT: 9.56 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

ClientSampled :

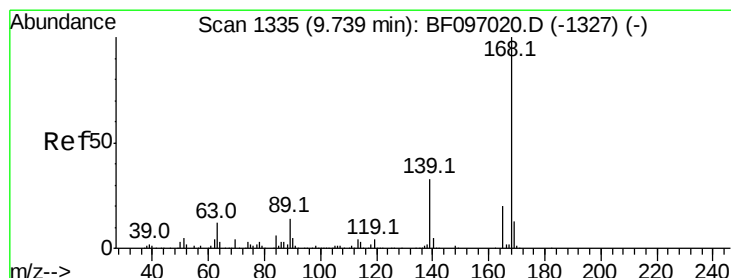
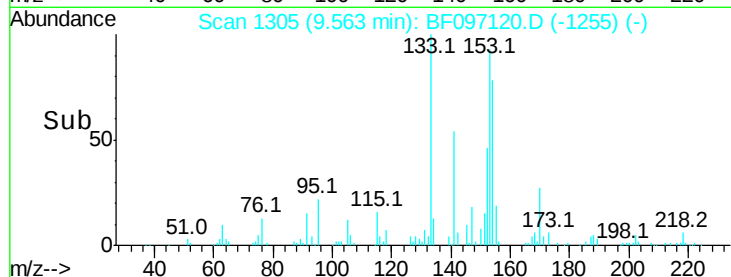
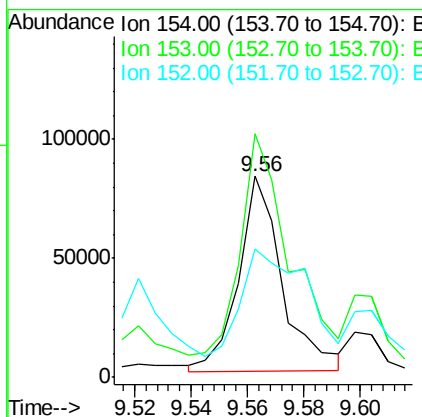
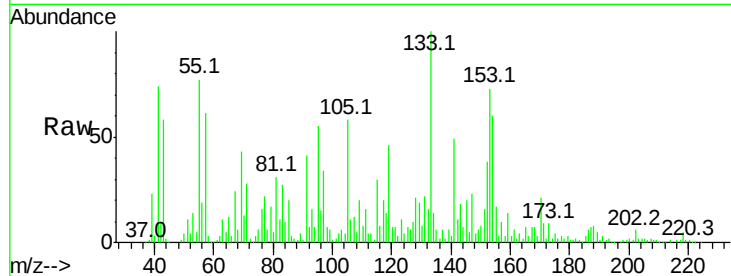
E2-N7-SSW

Tot Ion:	154	Resp:	88338
Ion Ratio	Lower	Upper	
154	100		
153	121.0	90.5	135.7
152	63.5	43.6	65.4

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#54

Dibenzofuran

Concen: 9.315 ng m

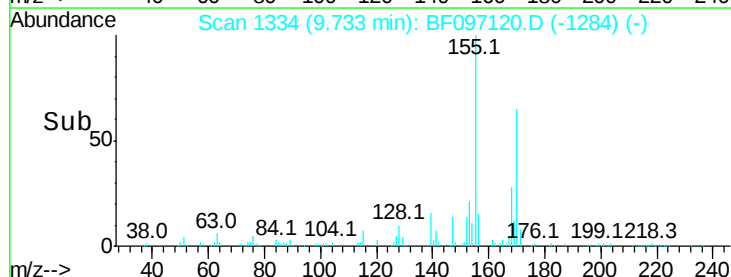
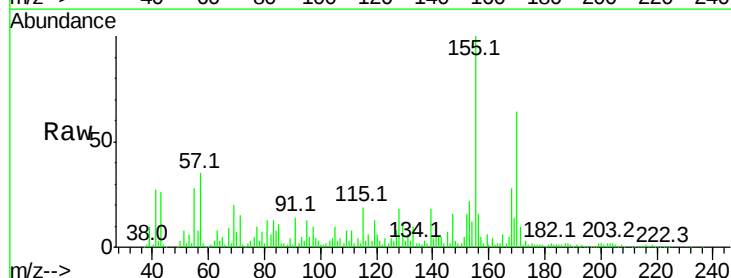
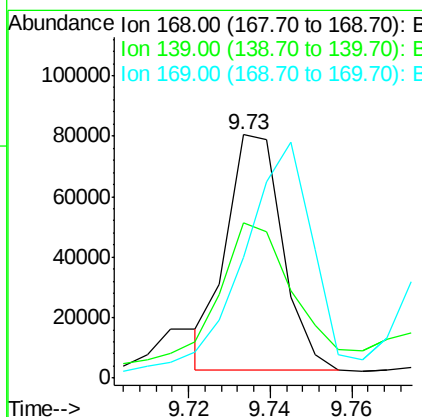
RT: 9.73 min Scan# 1334

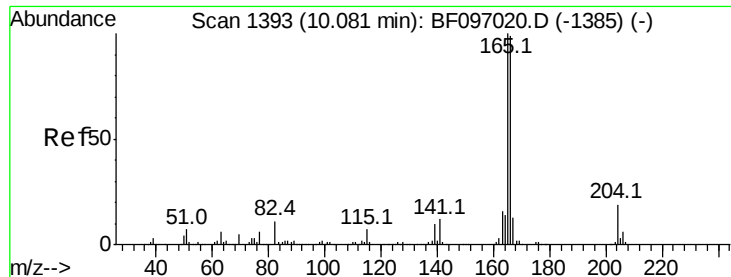
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:	168	Resp:	75059
Ion Ratio	Lower	Upper	
168	100		
139	63.9	30.6	45.8#
169	49.7	10.8	16.2#





#57

Fluorene

Concen: 21.900 ng

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

ClientSampled :

E2-N7-SSW

Tot Ion:166 Resp: 132633

Ion Ratio Lower Upper

166 100

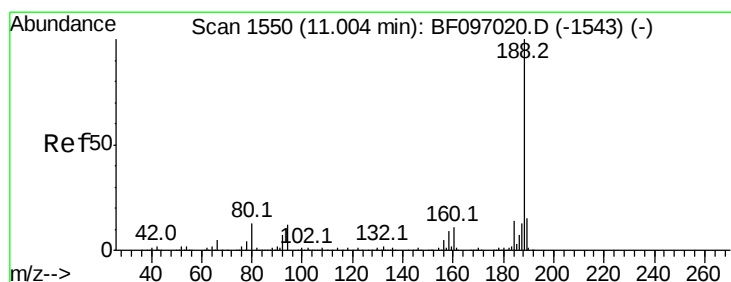
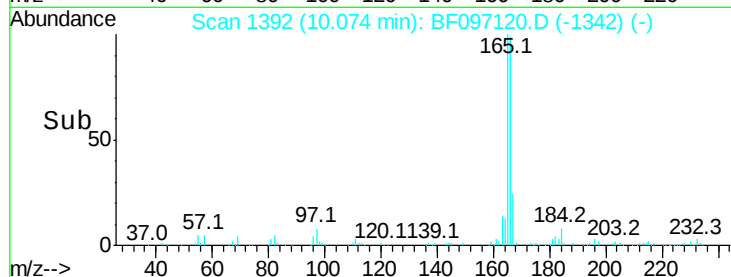
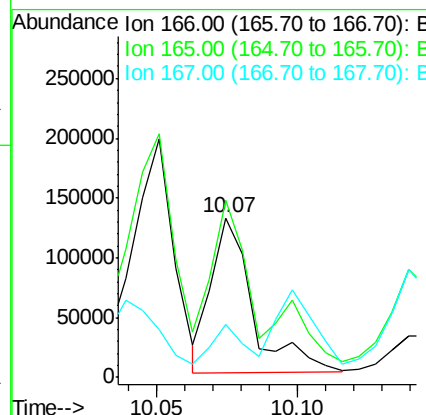
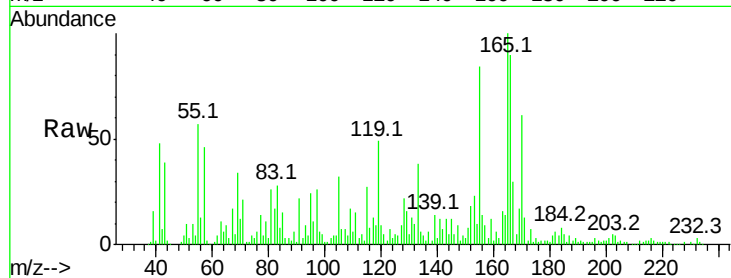
165 111.5 78.8 118.2

167 33.0 10.6 16.0#

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#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.00 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

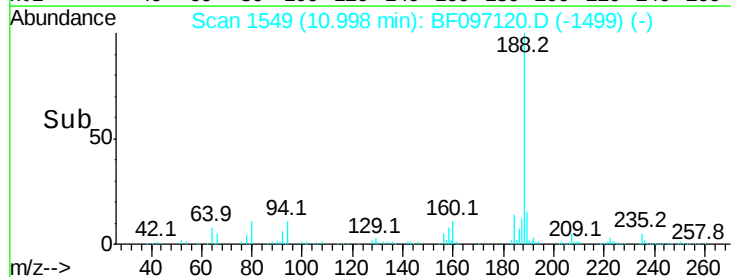
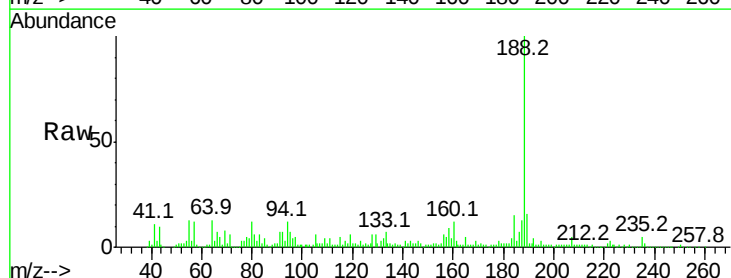
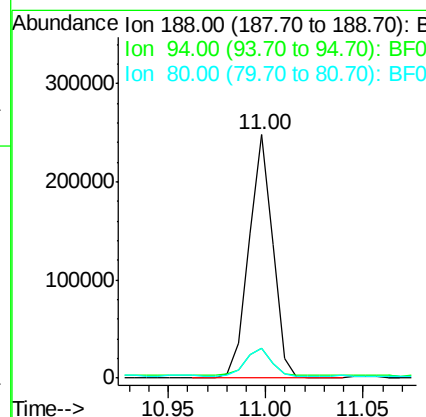
Tgt Ion:188 Resp: 207963

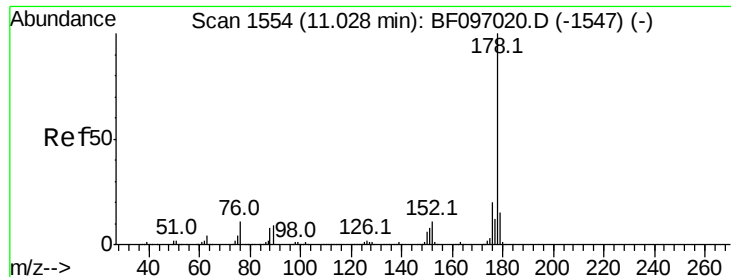
Ion Ratio Lower Upper

188 100

94 12.3 9.4 14.2

80 12.3 10.2 15.2





#70

Phenanthrene

Concen: 14.649 ng

RT: 11.02 min Scan# 1553

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

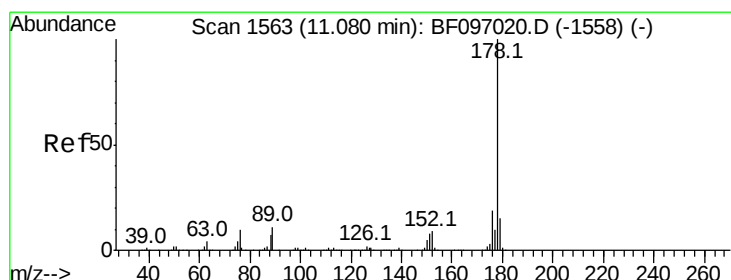
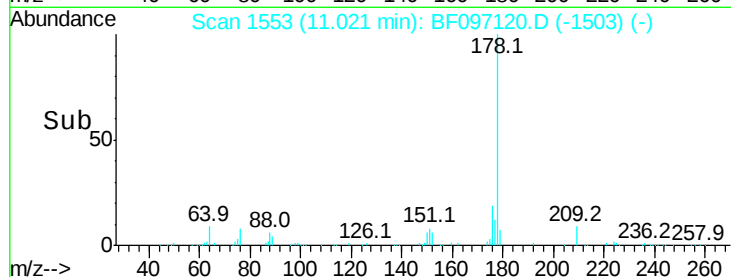
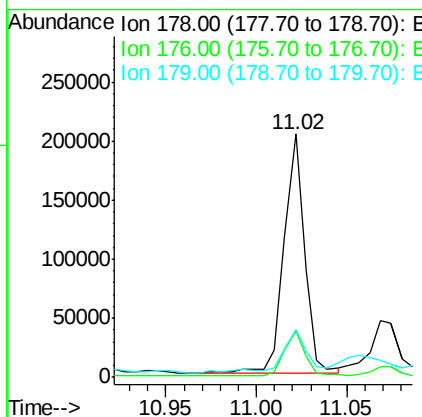
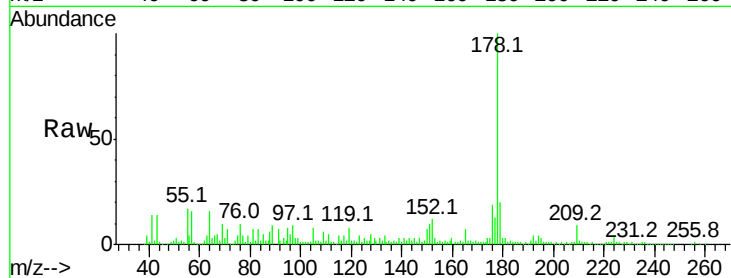
ClientSampled :

E2-N7-SSW

Tot Ion:178	Resp:	163227
Ion Ratio	Lower	Upper
178	100	
176	19.0	16.2 24.4
179	19.6	12.6 19.0#

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#71

Anthracene

Concen: 4.600 ng

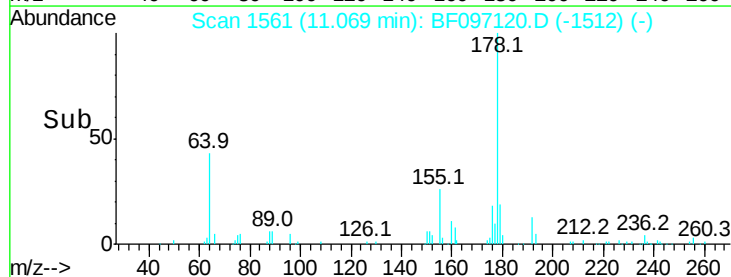
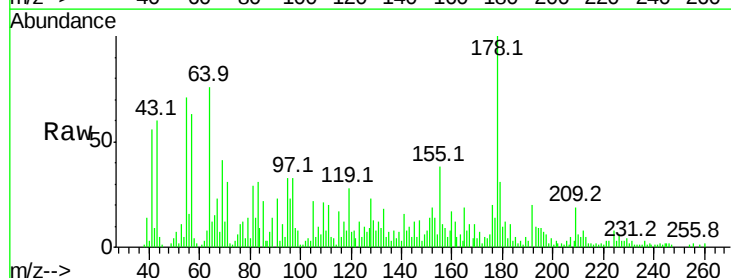
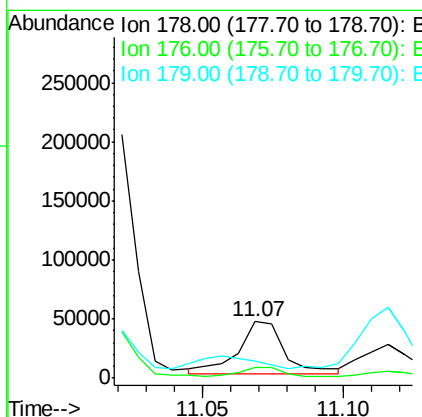
RT: 11.07 min Scan# 1561

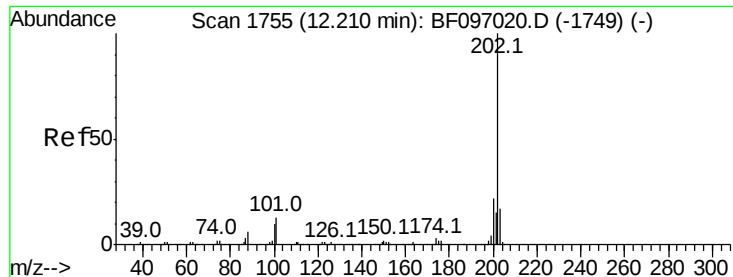
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:178	Resp:	52499
Ion Ratio	Lower	Upper
178	100	
176	19.6	15.8 23.8
179	31.1	12.7 19.1#





#74

Fluoranthene

Concen: 17.438 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

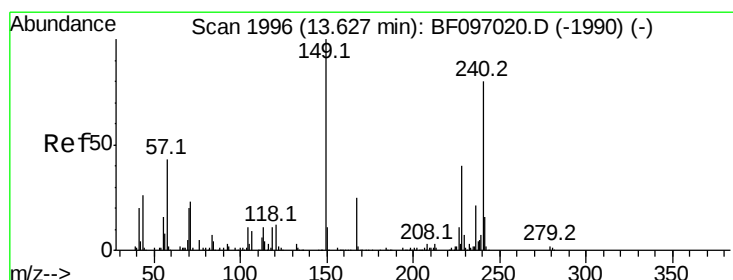
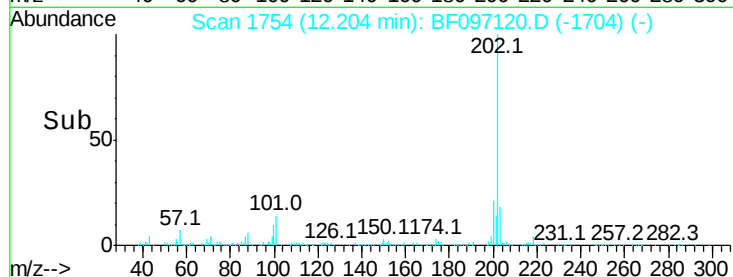
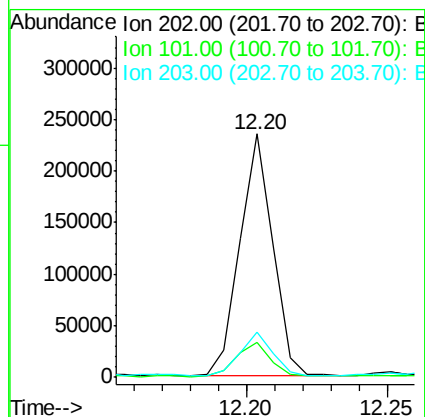
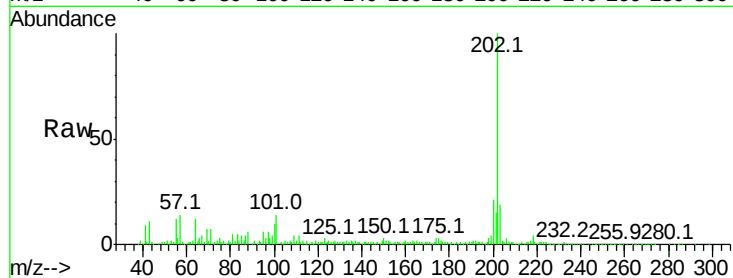
ClientSampleId :

E2-N7-SSW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		190355		
101	14.2	0.0	33.2		
203	18.5	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.000 ng

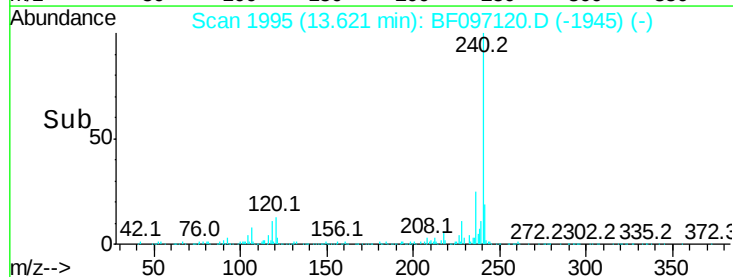
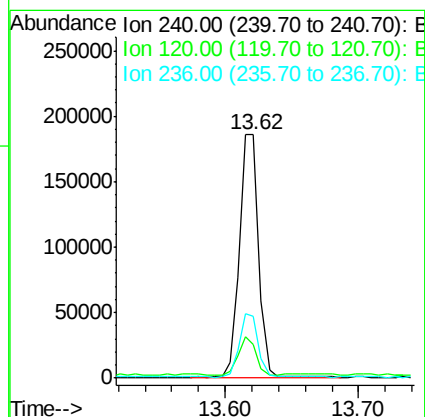
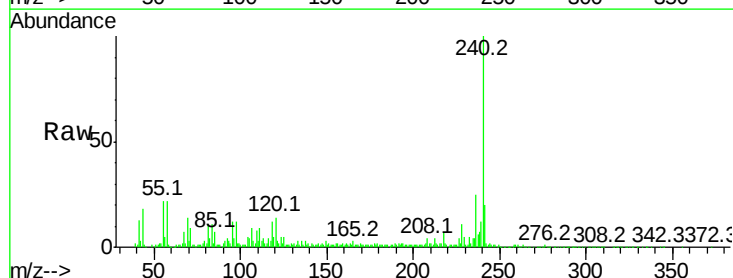
RT: 13.62 min Scan# 1995

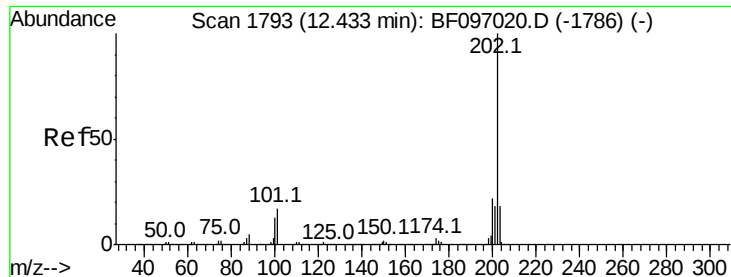
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		186858		
120	13.9	5.8	8.8#		
236	25.4	20.5	30.7		





#77

Pvrene

Concen: 12.804 ng

RT: 12.43 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

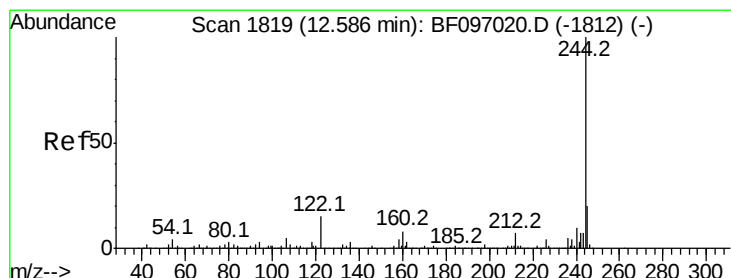
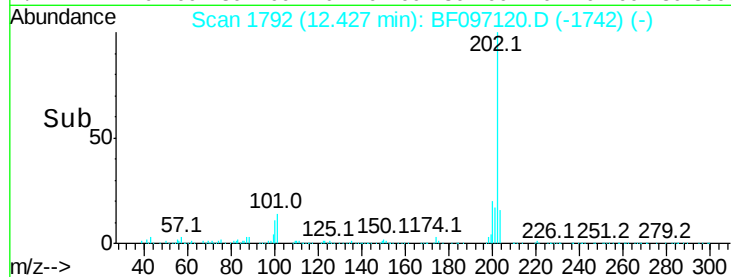
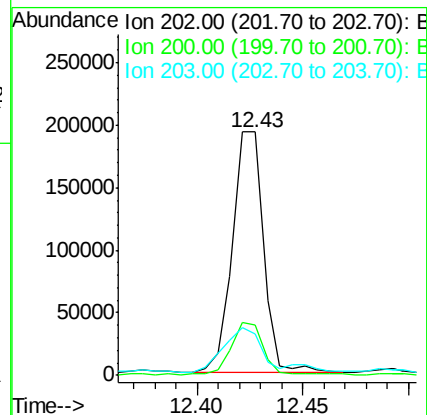
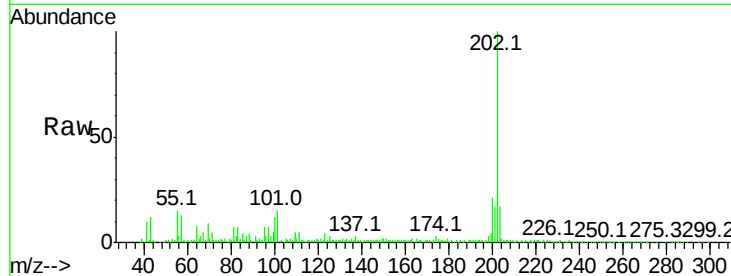
ClientSampled :

E2-N7-SSW

Tot Ion:	202	Resp:	195868
Ion Ratio	Lower	Upper	
202	100		
200	20.5	17.6	26.4
203	17.0	14.4	21.6

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#78

Terphenyl-d14

Concen: 52.915 ng

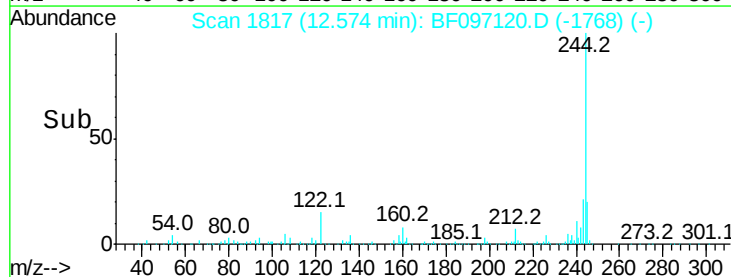
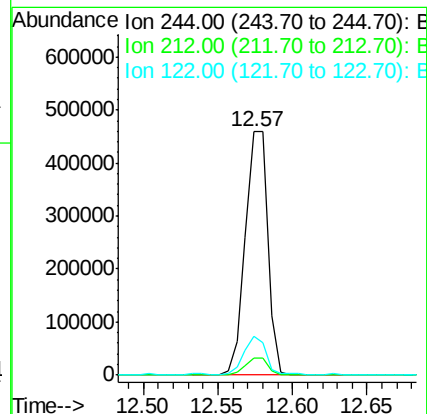
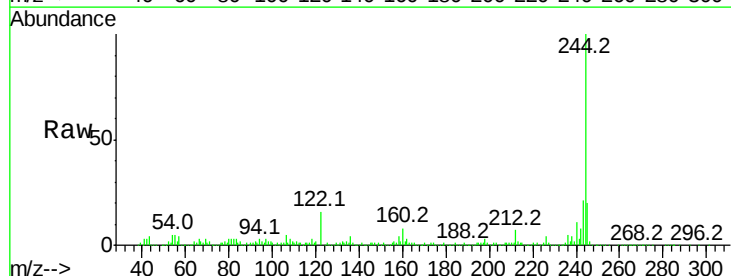
RT: 12.57 min Scan# 1817

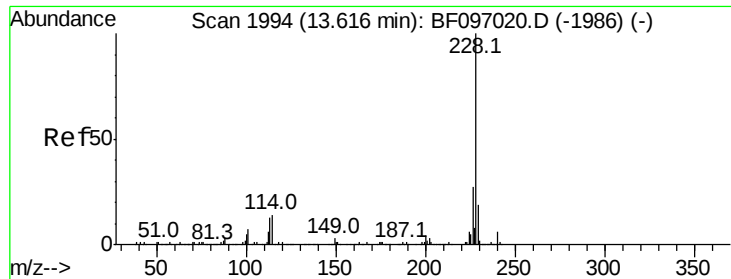
Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:	244	Resp:	484960
Ion Ratio	Lower	Upper	
244	100		
212	7.1	6.0	9.0
122	15.8	10.3	15.5#





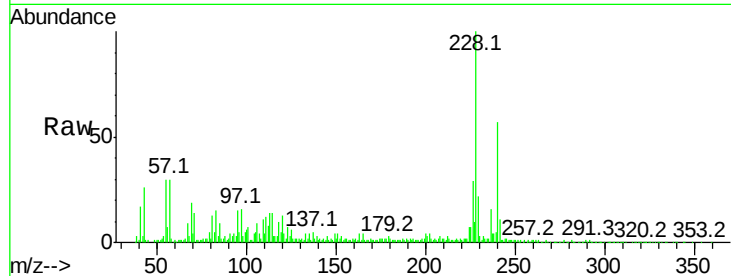
#80
Benzo(a)anthracene
Concen: 10.460 ng
RT: 13.61 min Scan# 1993
Delta R.T. -0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

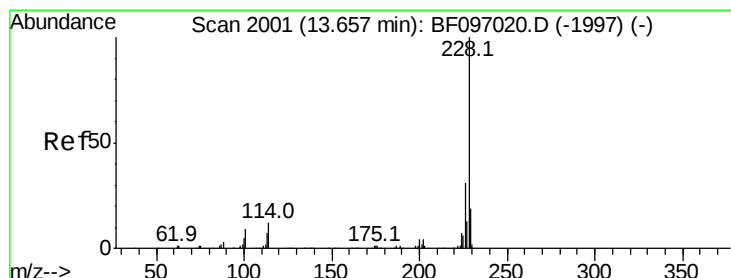
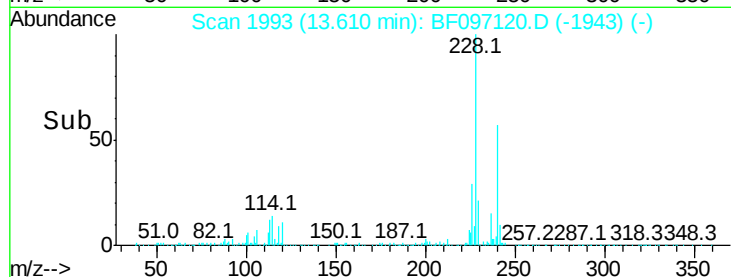
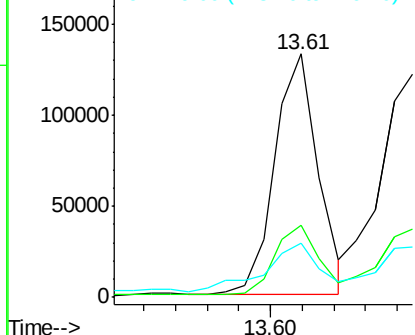
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	22.4	16.3	24.5

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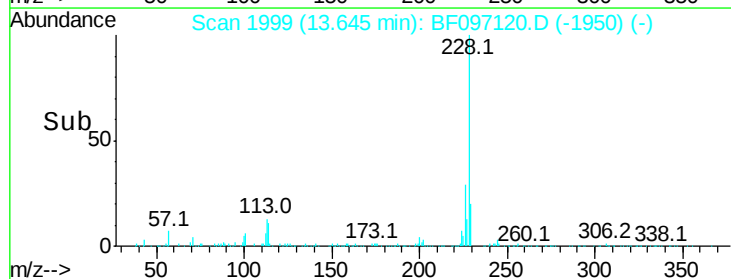
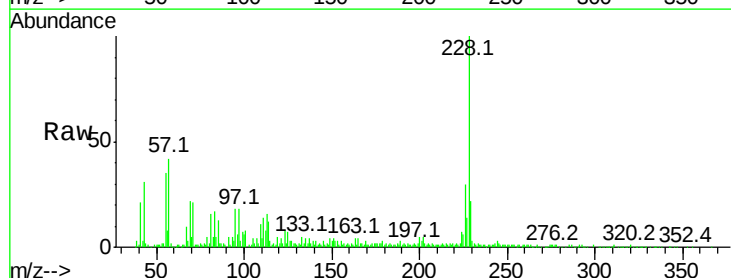
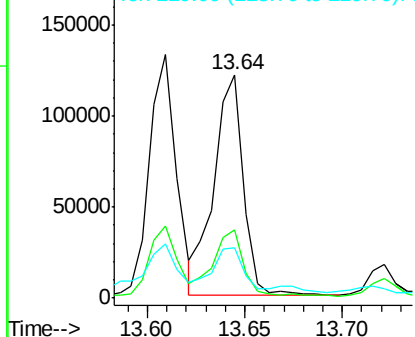
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

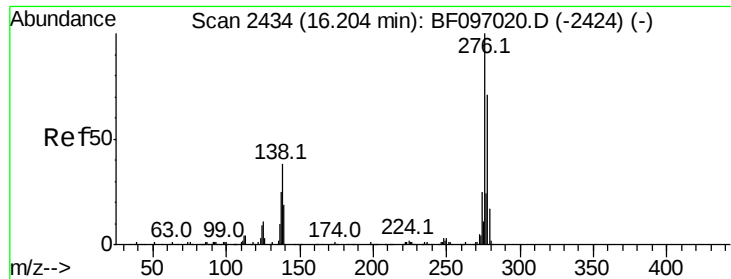


#82
Chrysene
Concen: 10.842 ng
RT: 13.64 min Scan# 1999
Delta R.T. -0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.9	37.3
229	22.3	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





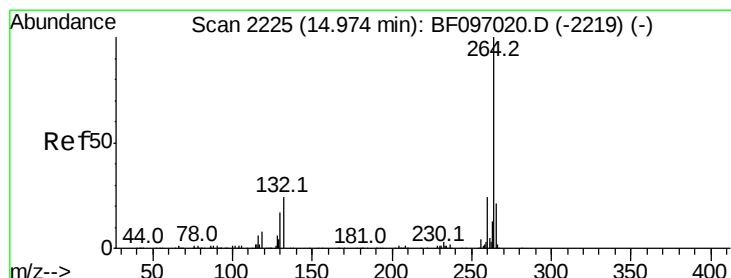
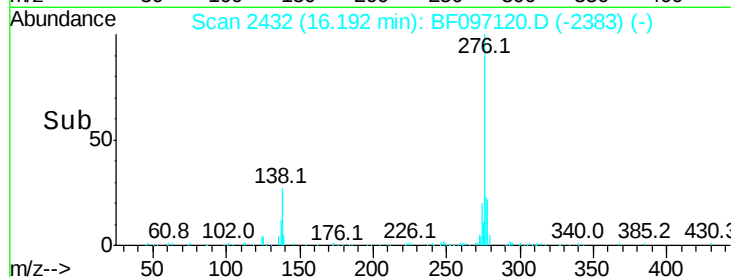
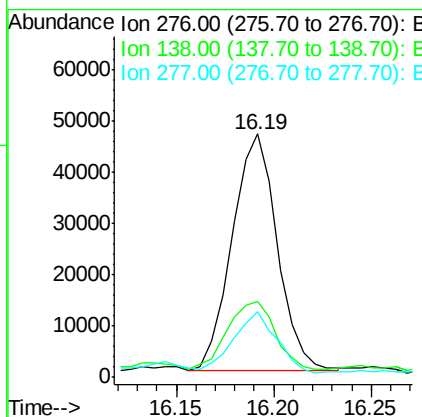
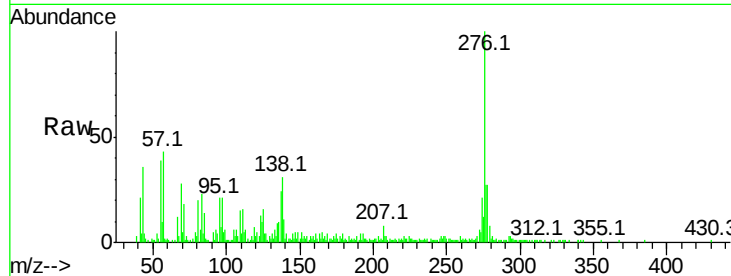
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.249 ng
 RT: 16.19 min Scan# 2432
 Delta R.T. -0.01 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Instrument :
 BNA_F
 ClientSampleId :
 E2-N7-SSW

Tot Ion:	276	Resp:	73381
Ion Ratio	Lower	Upper	
276	100		
138	30.9	27.8	41.6
277	24.3	20.2	30.4

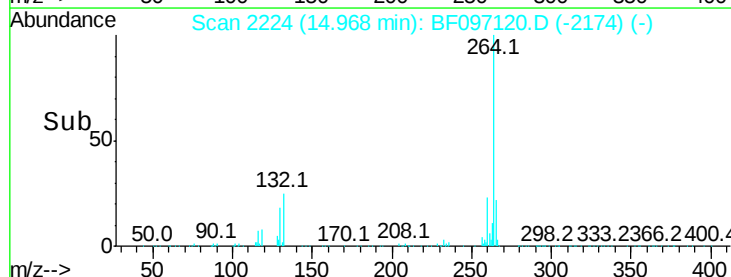
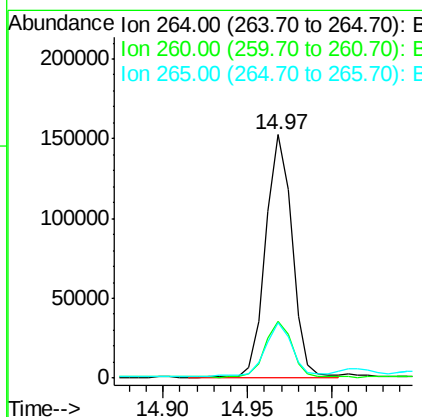
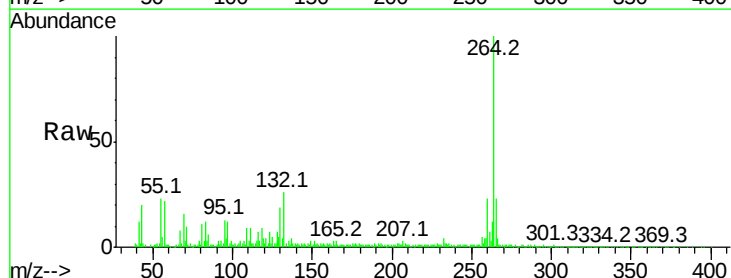
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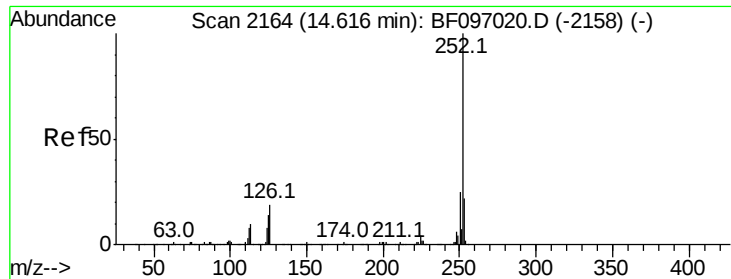
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.97 min Scan# 2224
 Delta R.T. -0.01 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Tgt Ion:	264	Resp:	165303
Ion Ratio	Lower	Upper	
264	100		
260	23.4	19.5	29.3
265	22.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 16.867 ng m

RT: 14.61 min Scan# 2163

Delta R.T. -0.01 min

Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Instrument :

BNA_F

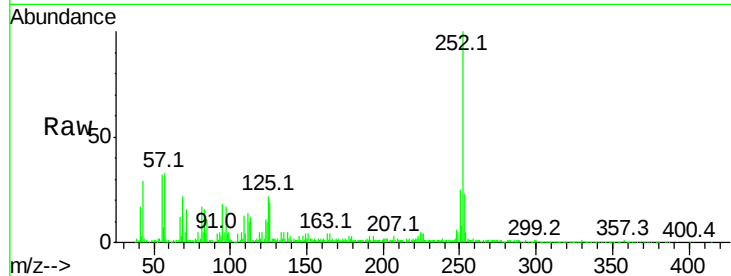
ClientSampleId :

E2-N7-SSW

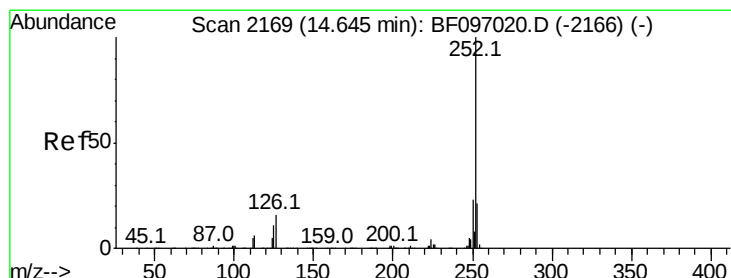
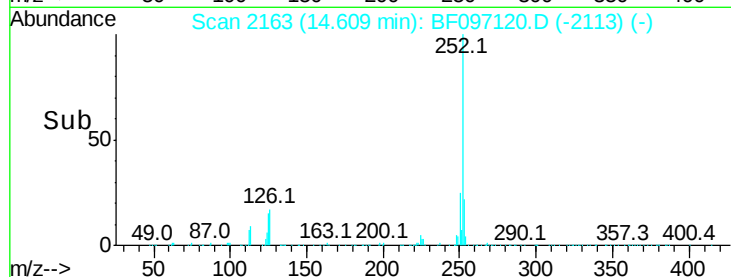
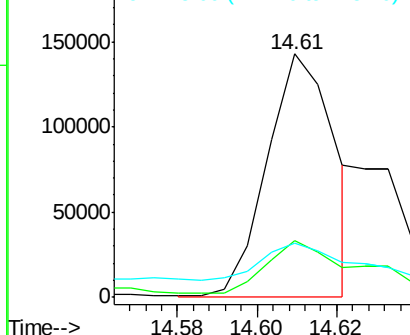
Tot Ion:	252	Resp:	167606
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.1	27.1
125	22.2	9.8	14.8#

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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



#88

Benzo(k)fluoranthene

Concen: 7.459 ng m

RT: 14.62 min Scan# 2165

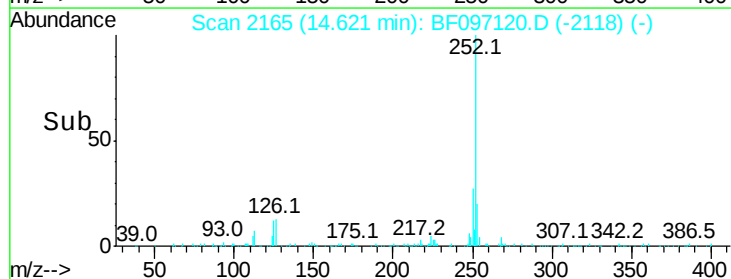
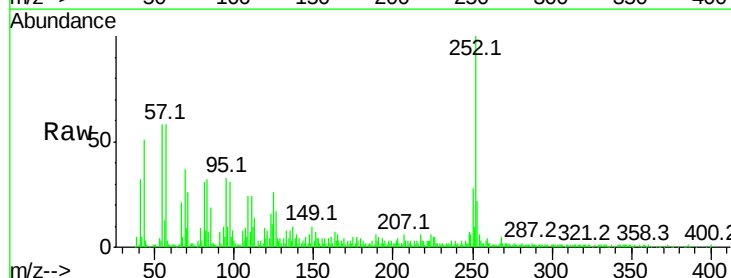
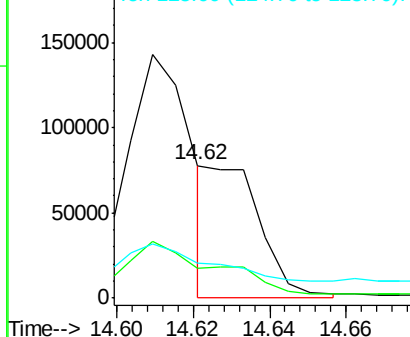
Delta R.T. -0.02 min

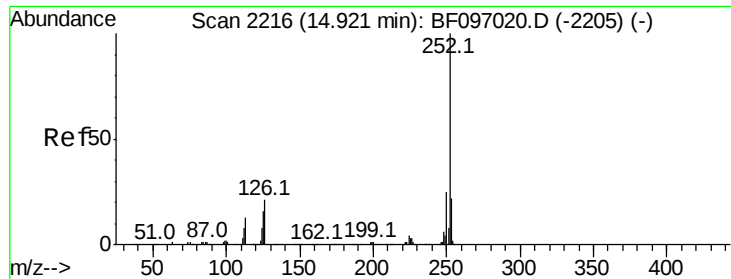
Lab File: BF097120.D

Acq: 27 Jul 2017 14:10

Tgt Ion:	252	Resp:	70625
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.4	27.6
125	26.3	13.1	19.7#

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





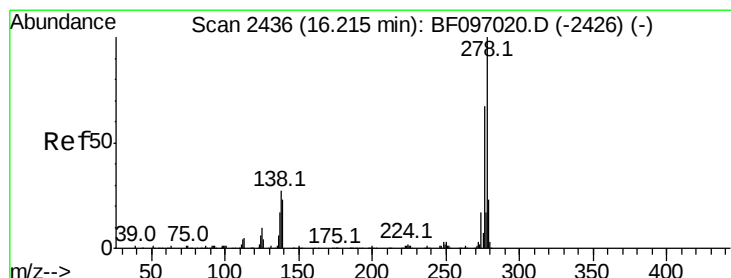
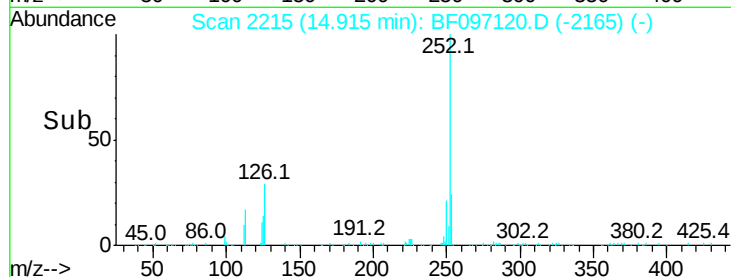
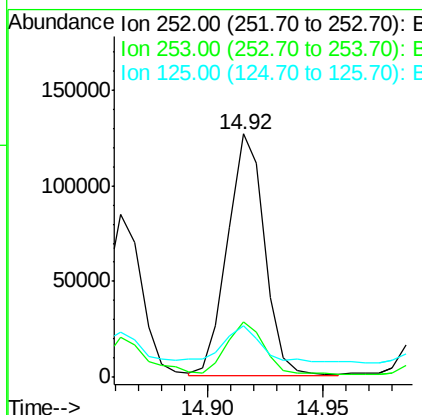
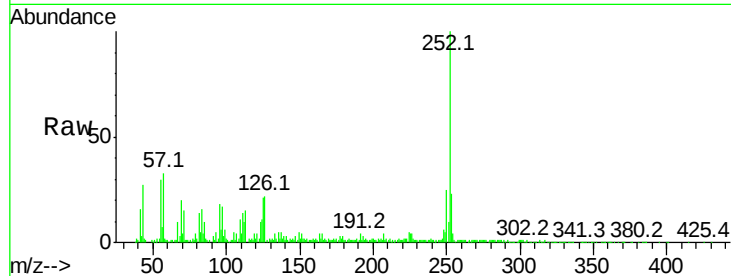
#89
Benzo(a)pyrene
Concen: 15.443 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	21.4	11.0	16.4

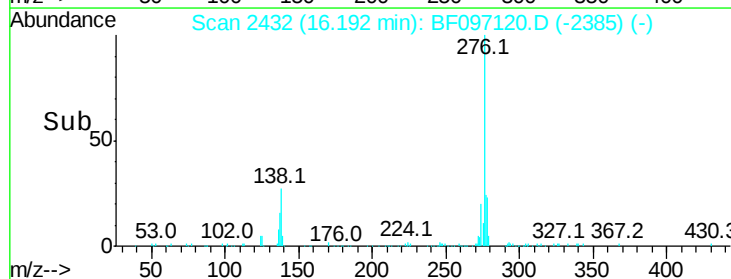
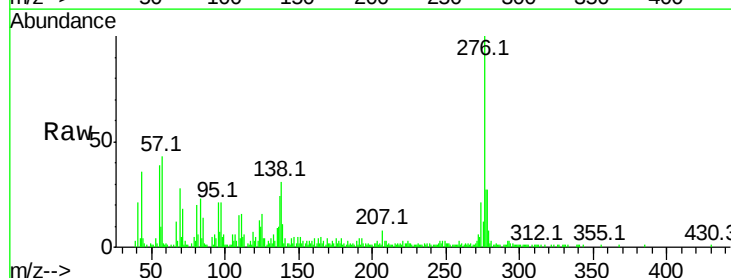
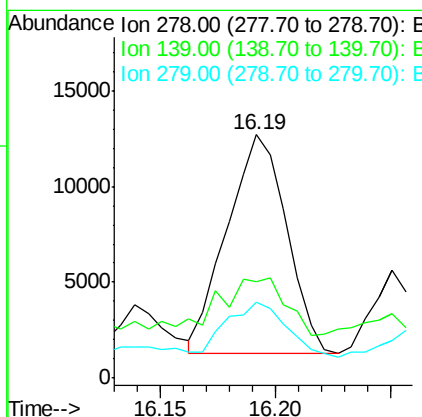
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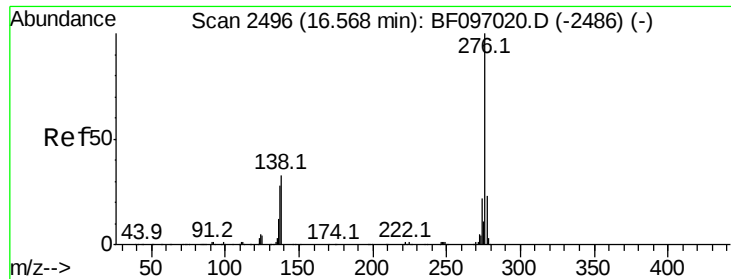
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#90
Dibenzo(a,h)anthracene
Concen: 2.749 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.02 min
Lab File: BF097120.D
Acq: 27 Jul 2017 14:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	39.5	16.6	24.8
279	31.2	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 9.821 ng
 RT: 16.55 min Scan# 2493
 Delta R.T. -0.02 min
 Lab File: BF097120.D
 Acq: 27 Jul 2017 14:10

Instrument :
 BNA_F
 ClientSampleId :
 E2-N7-SSW

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.0	18.6	28.0
138	37.7	25.4	38.0

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