

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
 Data File : BF097344.D
 Acq On : 4 Aug 2017 4:04
 Operator : SJ/JU
 Sample : I4522-02
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68

Manual Integrations
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Sohil
 8/4/2017 5:31:06 PM

Quant Time: Aug 04 11:10:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	95212	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	336066	20.00	ng	-0.06
38) Acenaphthene-d10	9.47	164	143433	20.00	ng	-0.06
63) Phenanthrene-d10	10.94	188	202529	20.00	ng	-0.06
75) Chrysene-d12	13.58	240	117688	20.00	ng	-0.05
86) Perylene-d12	14.93	264	92547	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	600520	95.08	ng	-0.05
7) Phenol-d6	6.12	99	692336	96.02	ng	-0.05
23) Nitrobenzene-d5	7.02	82	376390	65.70	ng	-0.06
41) 2,4,6-Tribromophenol	10.26	330	94262	83.18	ng	-0.06
44) 2-Fluorobiphenyl	8.80	172	447902	53.00	ng	-0.06
78) Terphenyl-d14	12.53	244	274359	47.53	ng	-0.05
Target Compounds						
10) Phenol	6.14	94	55144	6.448	ng	Qvalue # 66
31) Naphthalene	7.75	128	227810	14.380	ng	100
37) 2-Methylnaphthalene	8.44	142	51182	5.103	ng	98
48) Acenaphthylene	9.33	152	47119	3.405	ng	99
49) Dimethylphthalate	9.20	163	91711	8.420	ng	100
51) Acenaphthene	9.50	154	95148	11.673	ng	99
54) Dibenzofuran	9.67	168	93636	8.624	ng	98
57) Fluorene	10.02	166	109808	13.457	ng	99
70) Phenanthrene	10.97	178	819482	75.517	ng	99
71) Anthracene	11.02	178	260733	23.459	ng	98
72) Carbazole	11.18	167	158761	14.524	ng	99
74) Fluoranthene	12.16	202	964557	90.732	ng	98
77) Pvrene	12.39	202	778464	80.798	ng	99
80) Benzo(a)anthracene	13.57	228	376985	49.506	ng	98
82) Chrysene	13.61	228	322188	43.330	ng	96
85) Indeno(1,2,3-cd)pyrene	16.13	276	146050	22.906	ng	97
87) Benzo(b)fluoranthene	14.57	252	330377m	59.386	ng	
88) Benzo(k)fluoranthene	14.59	252	133232m	25.132	ng	
89) Benzo(a)pvrene	14.87	252	245899	48.295	ng	# 95
90) Dibenzo(a,h)anthracene	16.13	278	41332m	9.899	ng	
91) Benzo(g,h,i)perylene	16.50	276	139381	31.833	ng	97

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

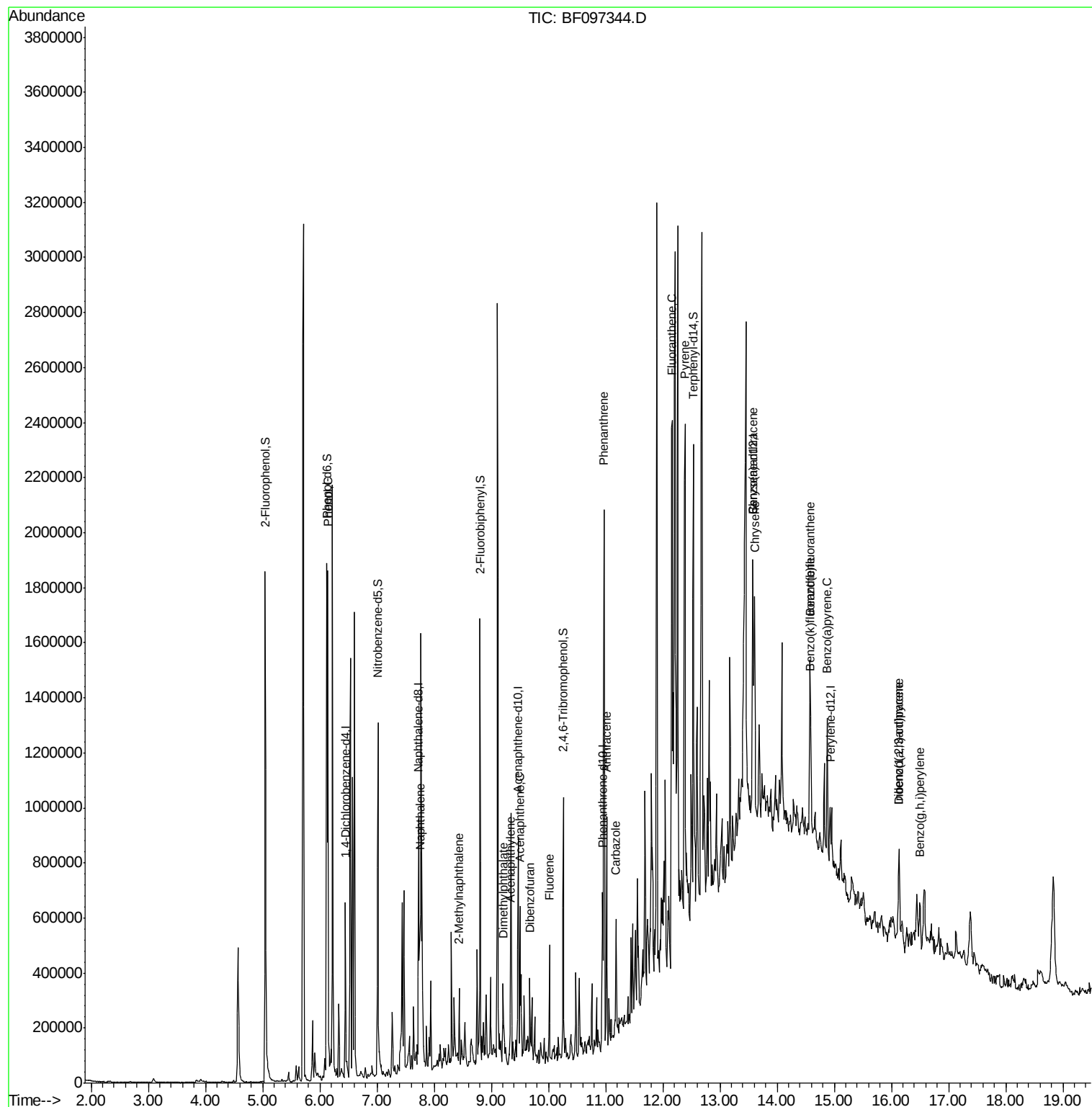
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
Data File : BF097344.D
Acq On : 4 Aug 2017 4:04
Operator : SJ/JU
Sample : I4522-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

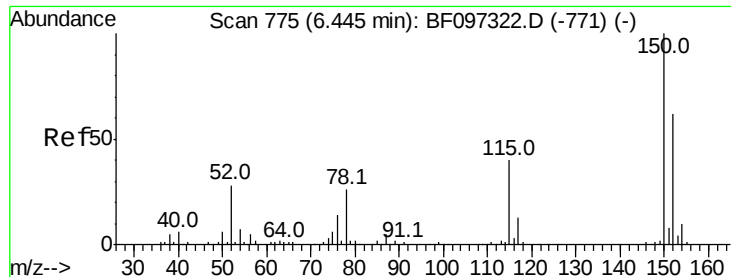
Instrument :
BNA_F
ClientSampleId :
TP-3D68

Manual Integrations
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Quant Time: Aug 04 11:10:21 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 01:17:22 2017
Response via : Initial Calibration





#1

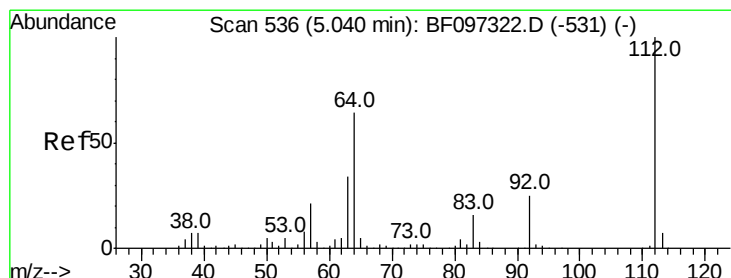
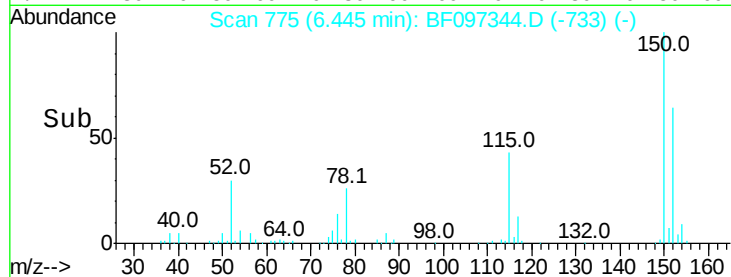
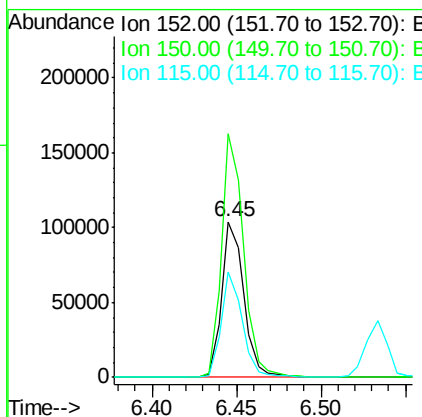
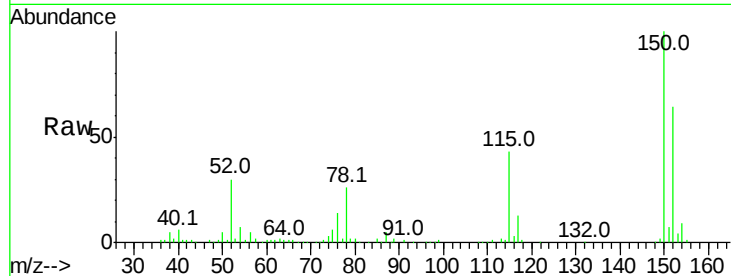
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.7	126.2	189.2
115	67.4	52.2	78.2

Manual Integrations
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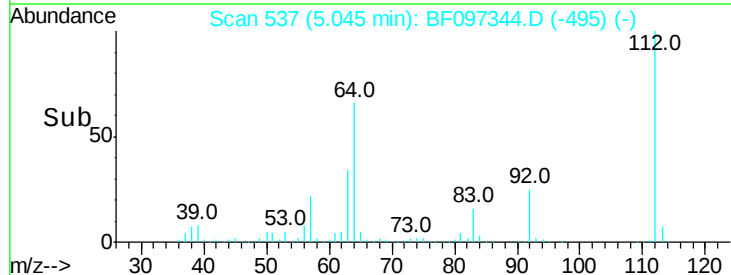
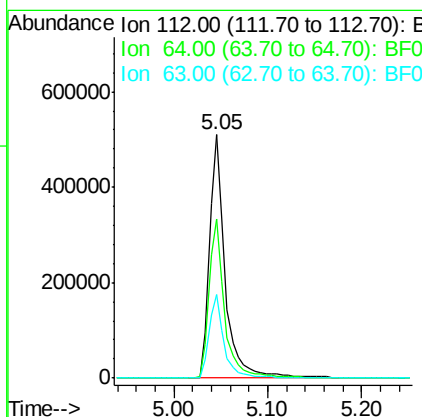
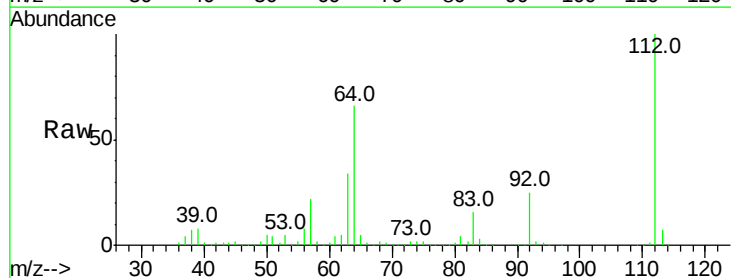
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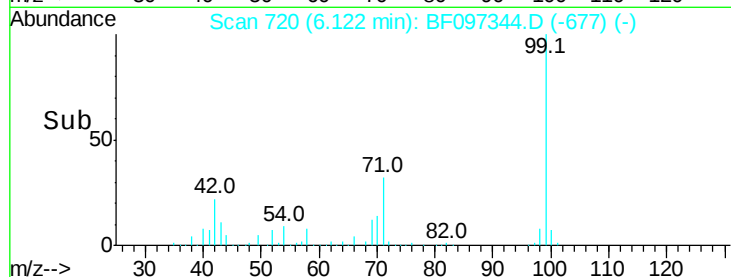
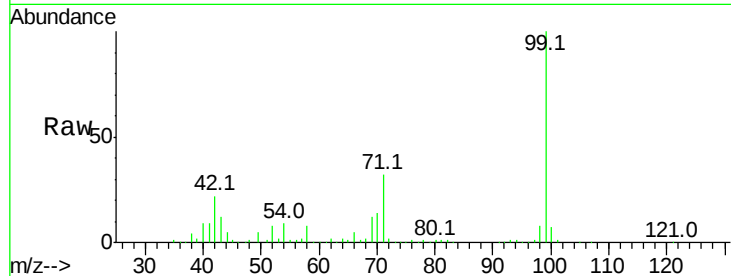
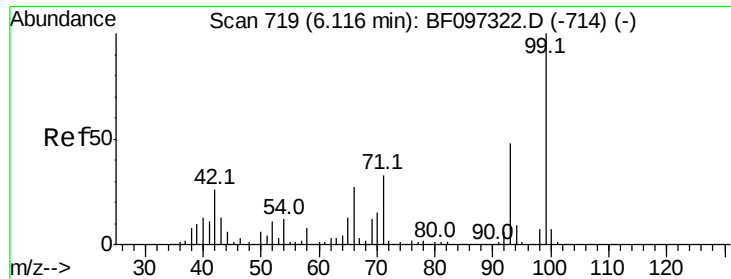


#5

2-Fluorophenol
Concen: 95.080 ng
RT: 5.05 min Scan# 537
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.6	46.0	69.0
63	34.4	23.4	35.0





#7

Phenol-d6

Concen: 96.019 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Tot Ion:	99	Resp:	692336
Ion Ratio	Lower	Upper	
99	100		
42	22.4	13.5	20.3#
71	31.7	24.5	36.7

Instrument :

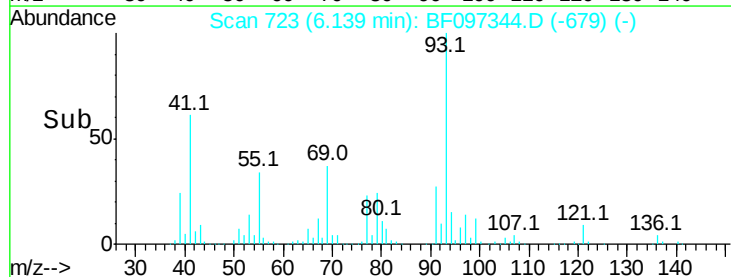
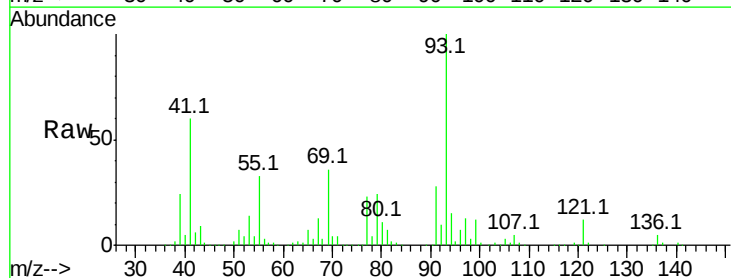
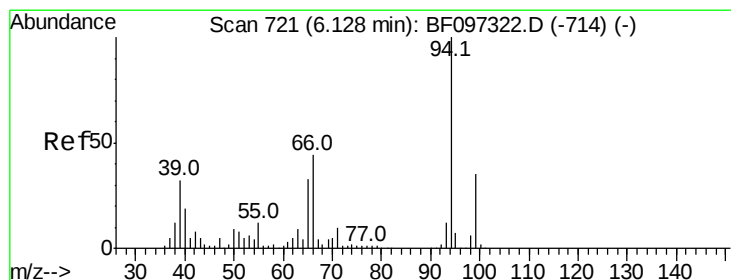
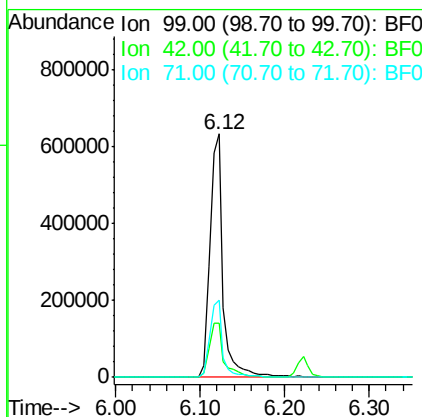
BNA_F

ClientSampleId :

TP-3D68

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#10

Phenol

Concen: 6.448 ng

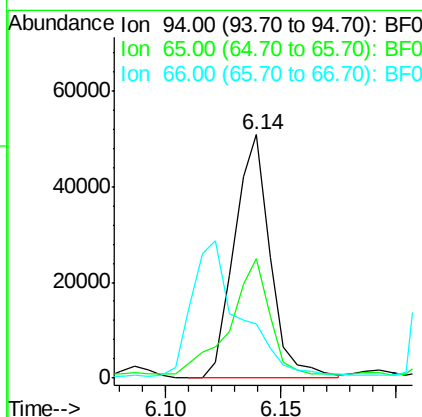
RT: 6.14 min Scan# 723

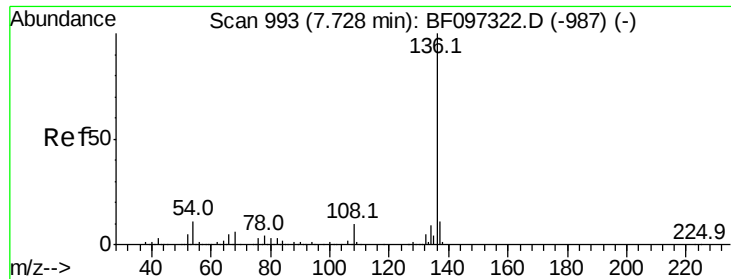
Delta R.T. -0.04 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Tgt Ion:	94	Resp:	55144
Ion Ratio	Lower	Upper	
94	100		
65	49.1	9.9	49.9
66	22.4	23.1	63.1#





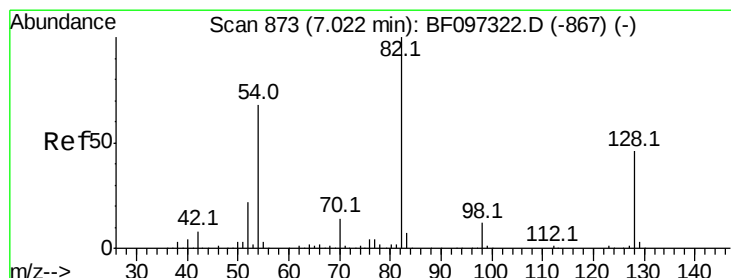
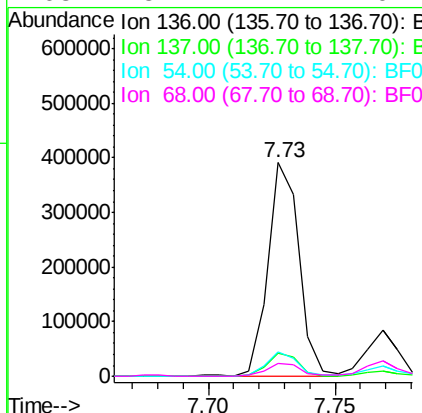
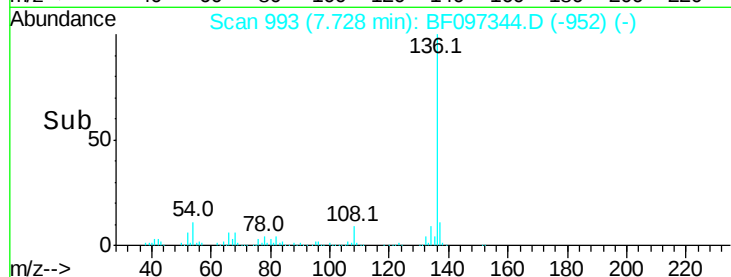
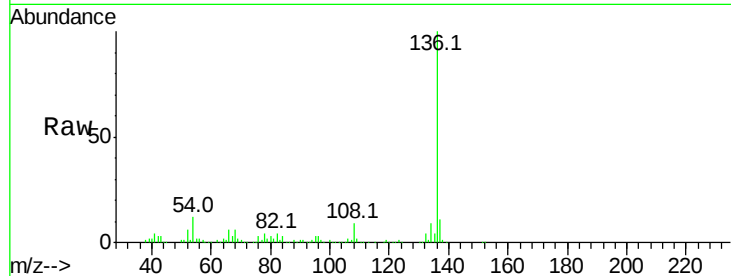
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.73 min Scan# 993
Delta R.T. -0.06 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.9	8.5	12.7
54	11.5	4.9	7.3#
68	5.7	4.1	6.1

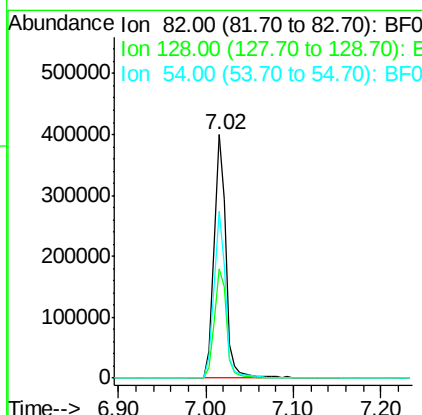
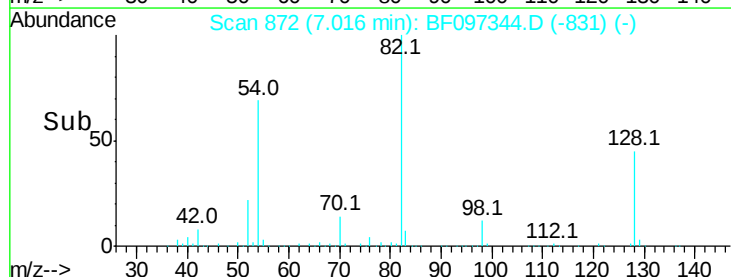
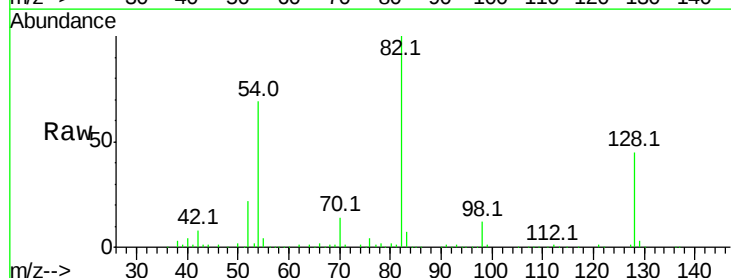
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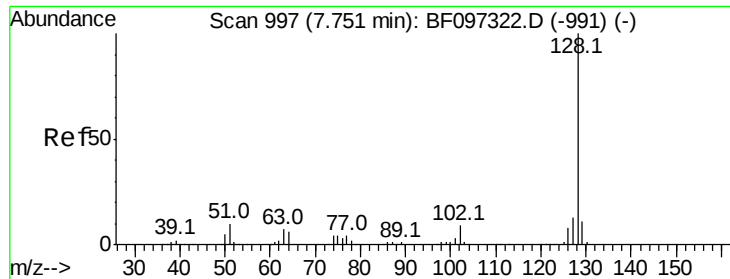
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#23
Nitrobenzene-d5
Concen: 65.703 ng
RT: 7.02 min Scan# 872
Delta R.T. -0.06 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	45.0	34.0	51.0
54	68.6	42.2	63.2#





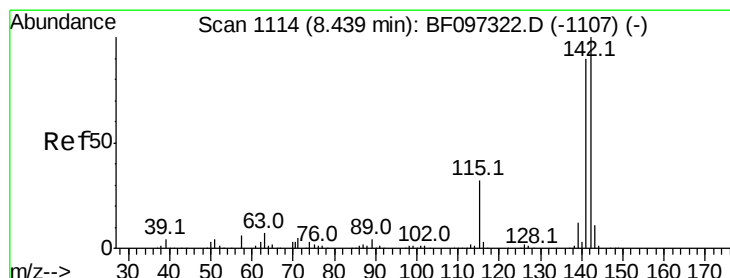
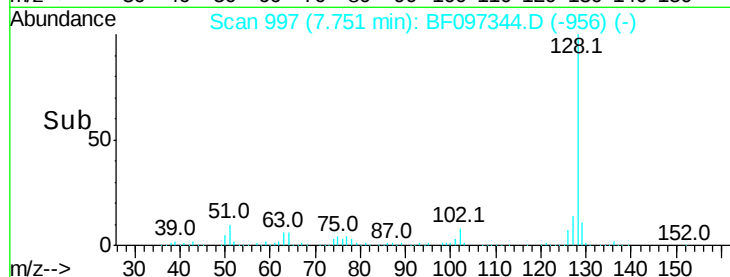
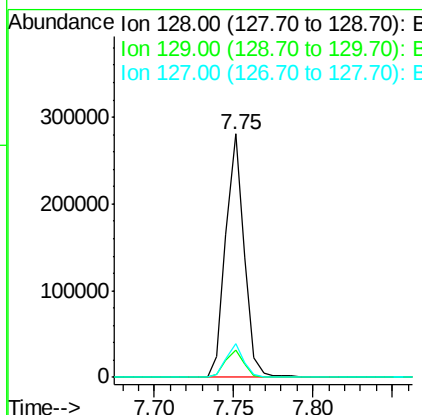
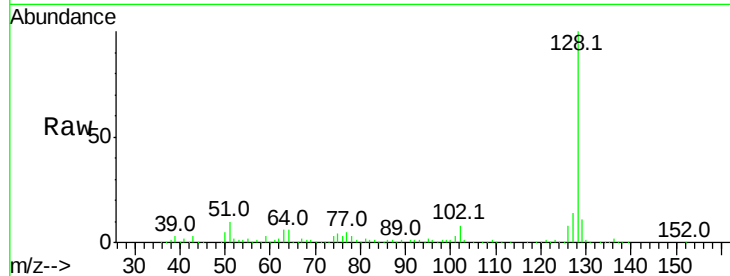
#31
Naphthalene
Concen: 14.380 ng
RT: 7.75 min Scan# 997
Delta R.T. -0.06 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.4	9.0	13.6	
127	13.7	10.8	16.2	

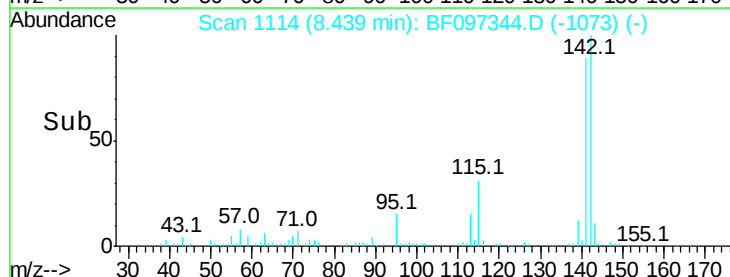
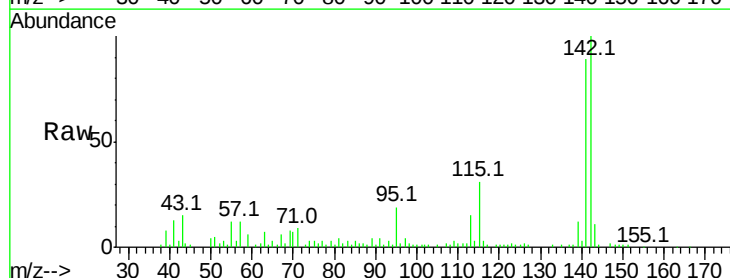
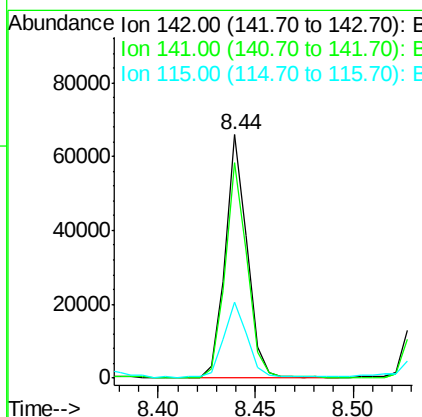
Manual Integrations
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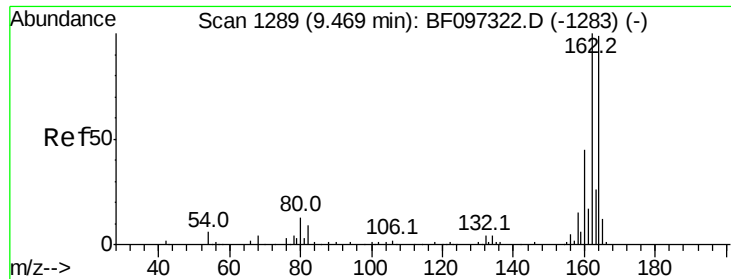
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#37
2-Methylnaphthalene
Concen: 5.103 ng
RT: 8.44 min Scan# 1114
Delta R.T. -0.06 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	88.7	71.3	106.9	
115	31.3	27.1	40.7	





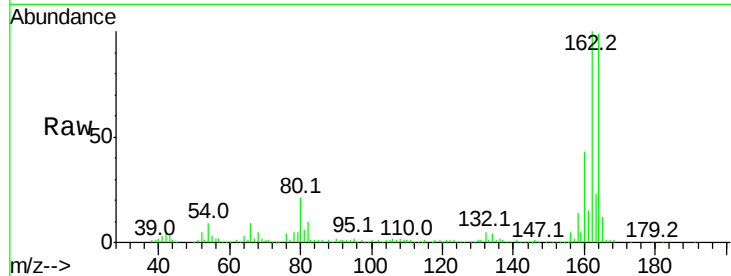
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.47 min Scan# 1289
 Delta R.T. -0.06 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68

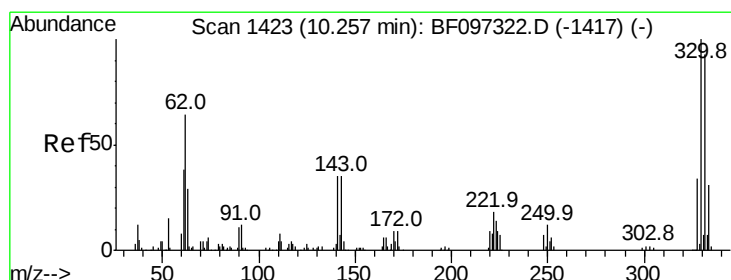
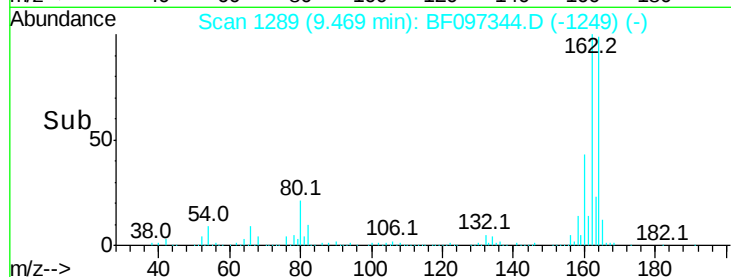
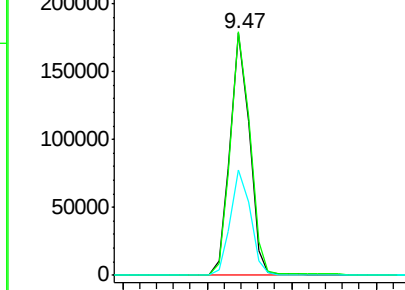
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.7	82.6	123.8	
160	43.5	36.2	54.2	

Manual Integrations
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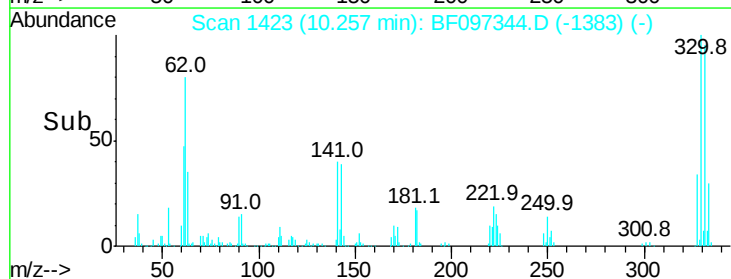
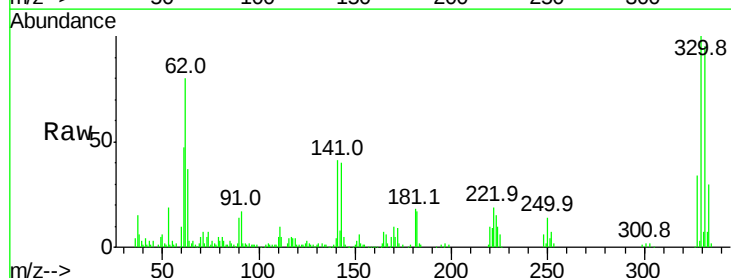
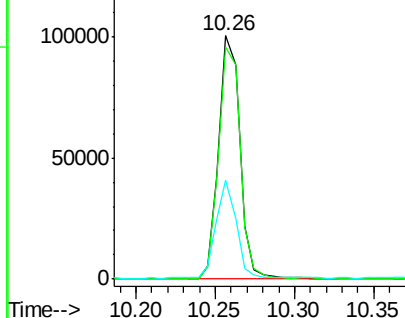
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 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

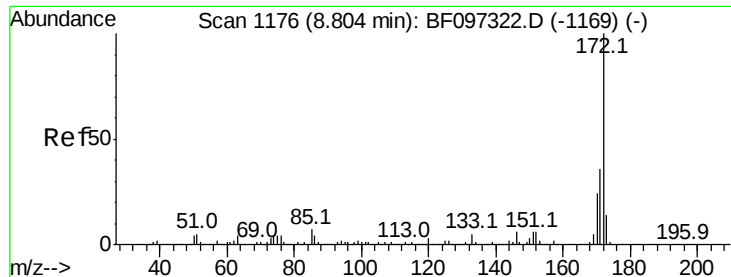


#41
 2,4,6-Tribromophenol
 Concen: 83.178 ng
 RT: 10.26 min Scan# 1423
 Delta R.T. -0.06 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.7	76.6	115.0	
141	40.2	31.4	47.2	

Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





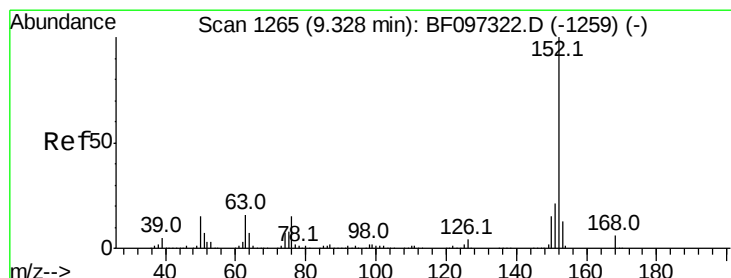
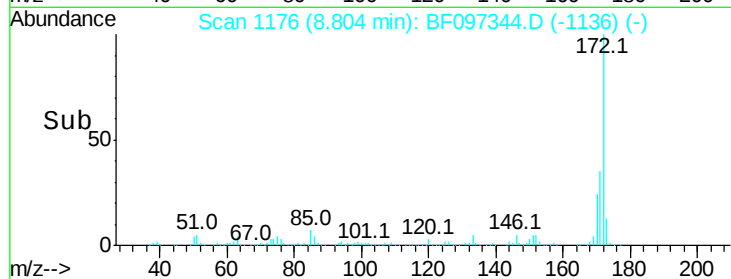
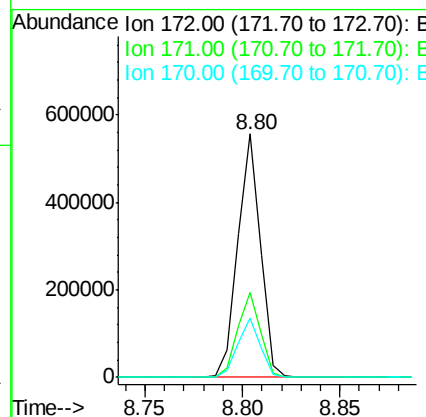
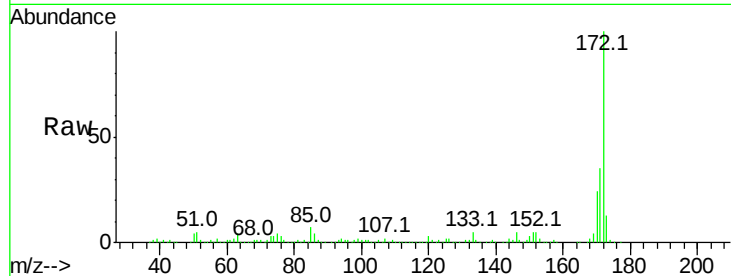
#44
 2-Fluorobiphenyl
 Concen: 52.996 ng
 RT: 8.80 min Scan# 1176
 Delta R.T. -0.06 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68

Tot Ion	Ratio	Resp	Lower	Upper
172	100	447902		
171	35.0		29.6	44.4
170	24.3		19.8	29.8

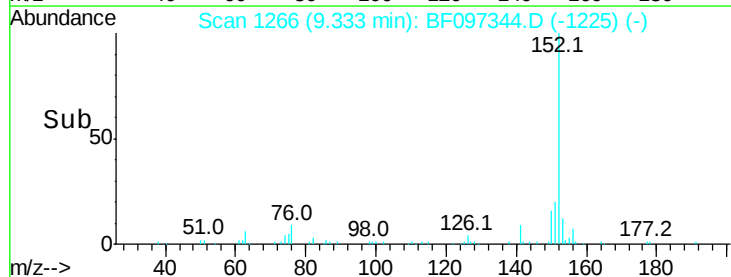
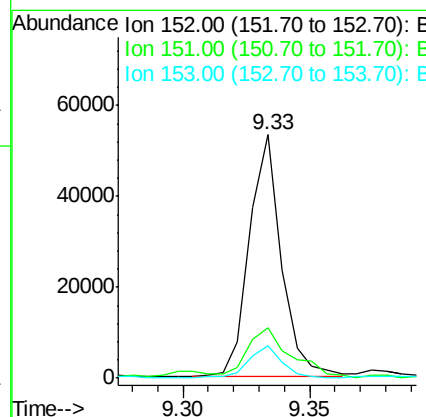
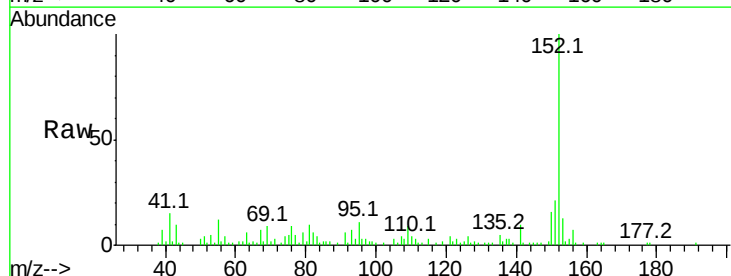
Manual Integrations
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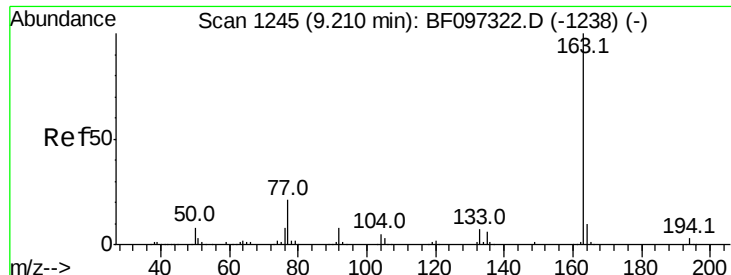
Sohil
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#48
 Acenaphthylene
 Concen: 3.405 ng
 RT: 9.33 min Scan# 1266
 Delta R.T. -0.06 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	47119		
151	20.6		16.8	25.2
153	13.2		10.8	16.2





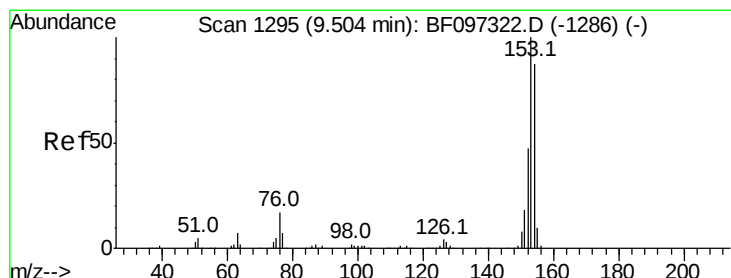
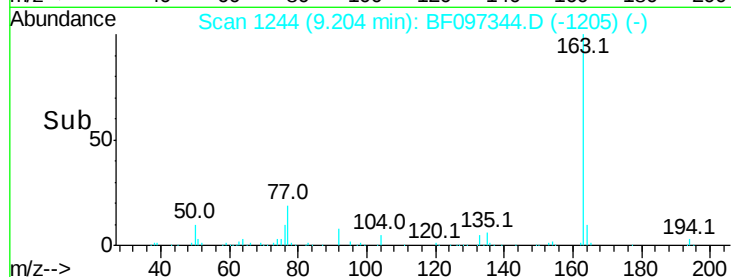
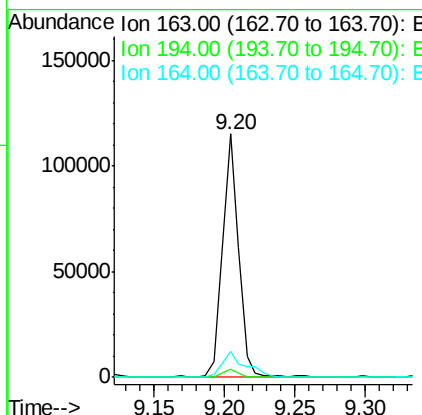
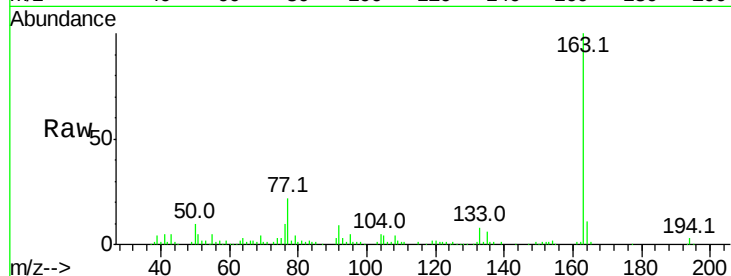
#49
Dimethylphthalate
Concen: 8.420 ng
RT: 9.20 min Scan# 1244
Delta R.T. -0.07 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion:	163	Resp:	91711
Ion Ratio	Lower	Upper	
163	100		
194	3.1	2.6	4.0
164	10.5	8.4	12.6

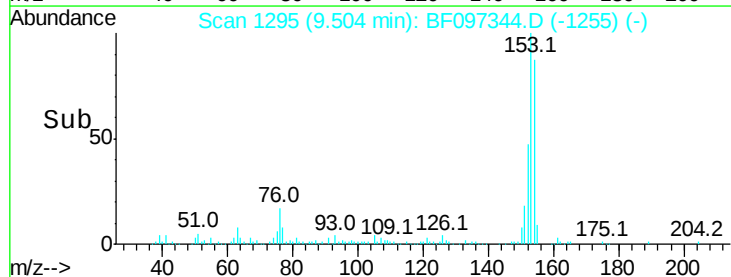
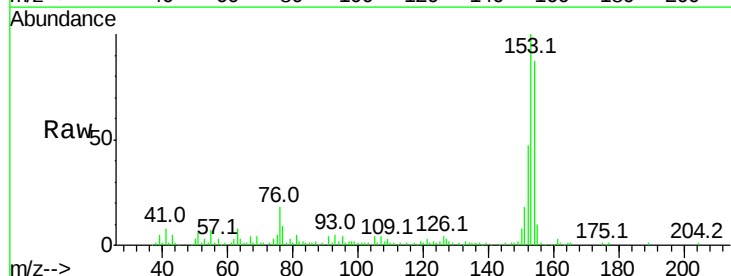
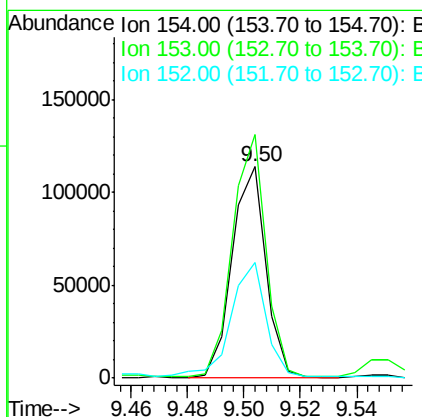
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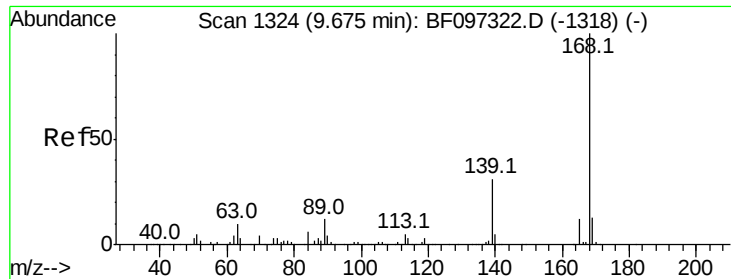
Sohil
8/4/2017 5:31:06 PM



#51
Acenaphthene
Concen: 11.673 ng
RT: 9.50 min Scan# 1295
Delta R.T. -0.06 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion:	154	Resp:	95148
Ion Ratio	Lower	Upper	
154	100		
153	115.3	90.5	135.7
152	54.6	43.6	65.4





#54

Dibenzofuran

Concen: 8.624 ng

RT: 9.67 min Scan# 1324

Delta R.T. -0.06 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Instrument :

BNA_F

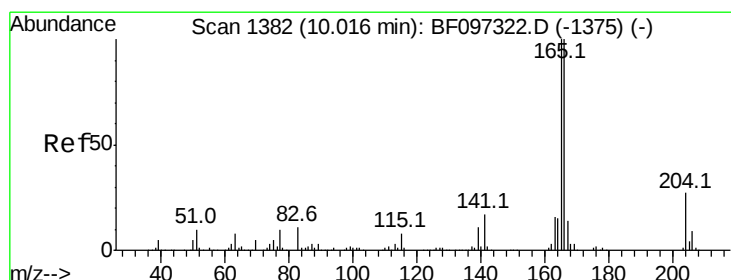
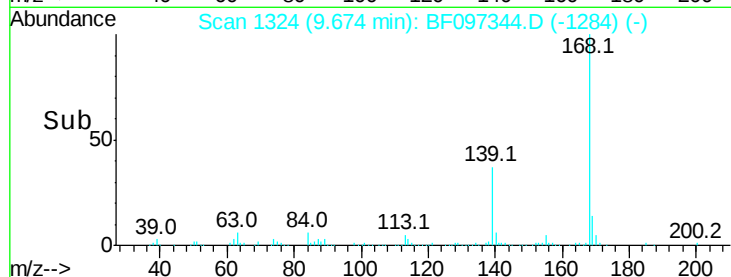
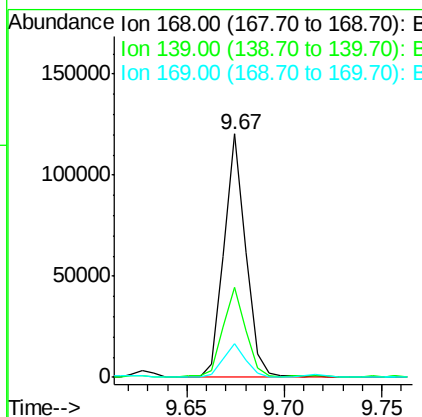
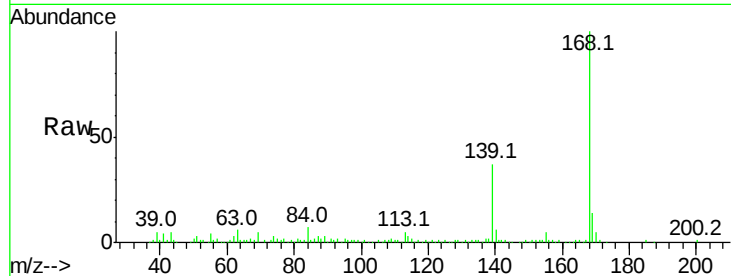
ClientSampleId :

TP-3D68

Tot Ion:	168	Resp:	93636
Ion Ratio	Lower	Upper	
168	100		
139	37.0	30.6	45.8
169	13.9	10.8	16.2

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8/4/2017 5:31:06 PM



#57

Fluorene

Concen: 13.457 ng

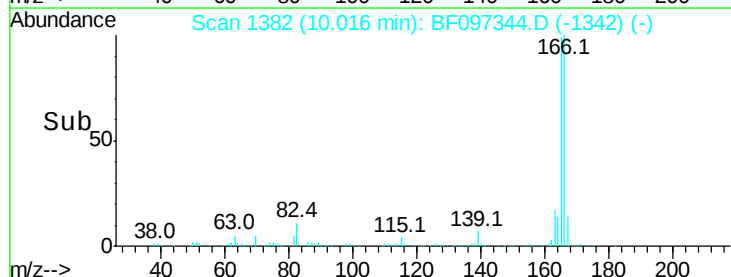
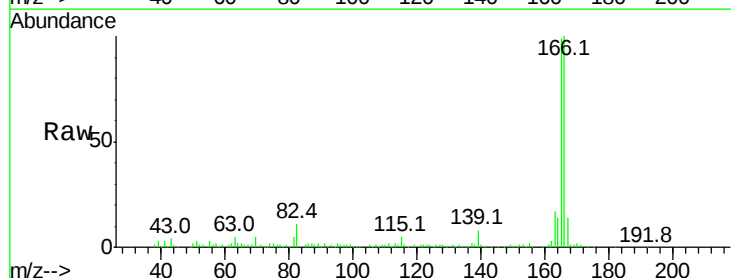
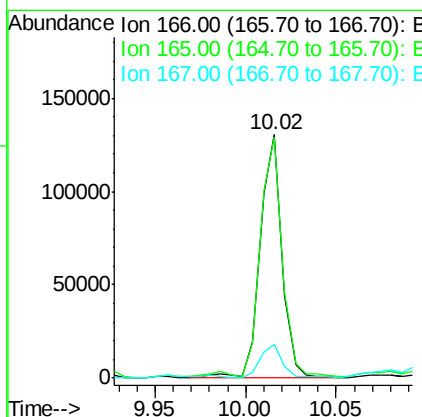
RT: 10.02 min Scan# 1382

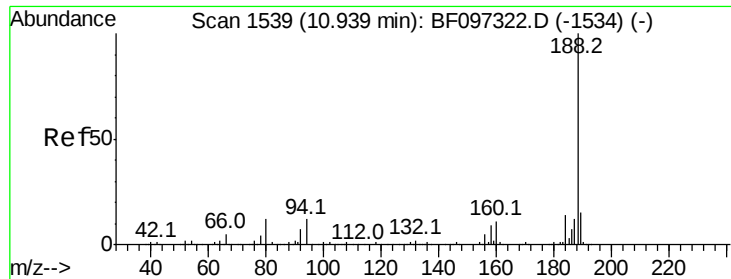
Delta R.T. -0.06 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Tgt Ion:	166	Resp:	109808
Ion Ratio	Lower	Upper	
166	100		
165	98.9	78.8	118.2
167	14.0	10.6	16.0





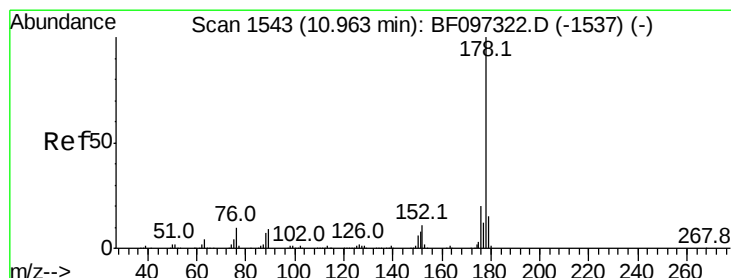
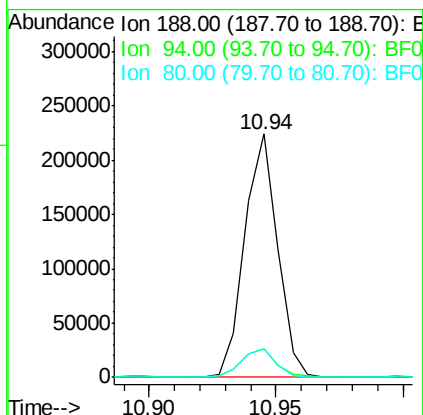
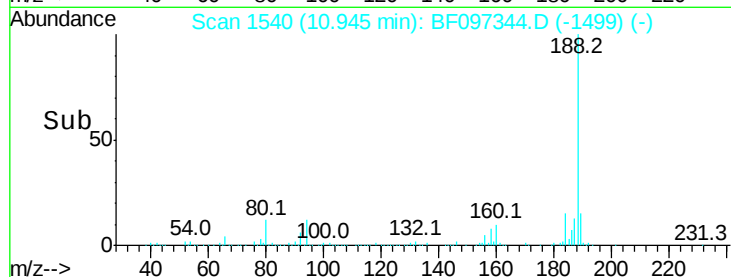
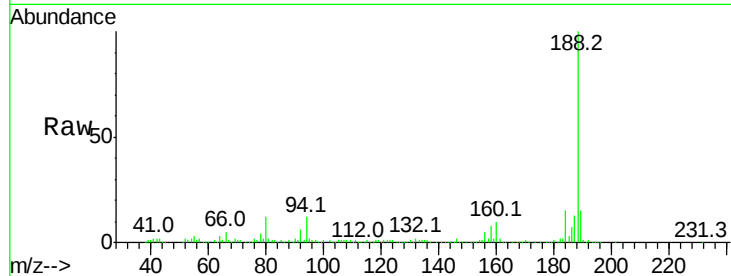
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.94 min Scan# 1540
 Delta R.T. -0.06 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Instrument :
 BNA_F
 ClientSampled :
 TP-3D68

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.8	9.4	14.2
80	11.8	10.2	15.2

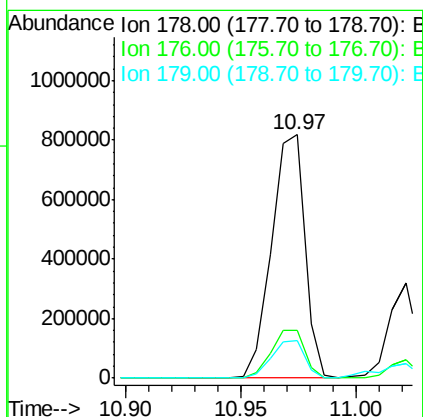
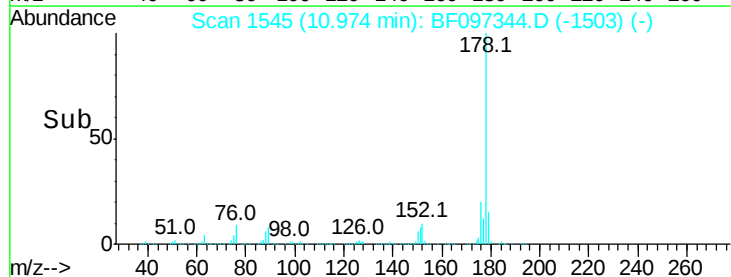
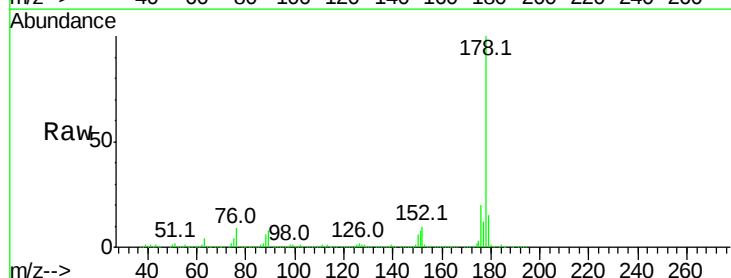
Manual Integrations
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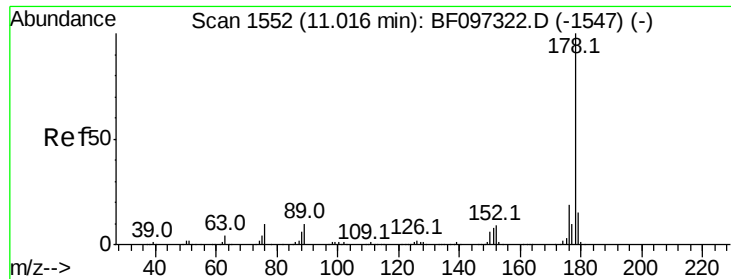
Sohil
 8/4/2017 5:31:06 PM



#70
 Phenanthrene
 Concen: 75.517 ng
 RT: 10.97 min Scan# 1545
 Delta R.T. -0.05 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	16.2	24.4
179	15.2	12.6	19.0





#71

Anthracene

Concen: 23.459 ng

RT: 11.02 min Scan# 1553

Delta R.T. -0.06 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Instrument :

BNA_F

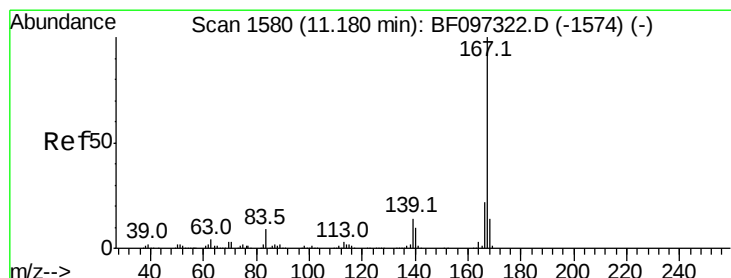
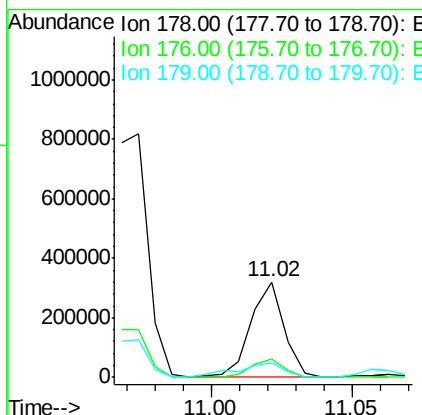
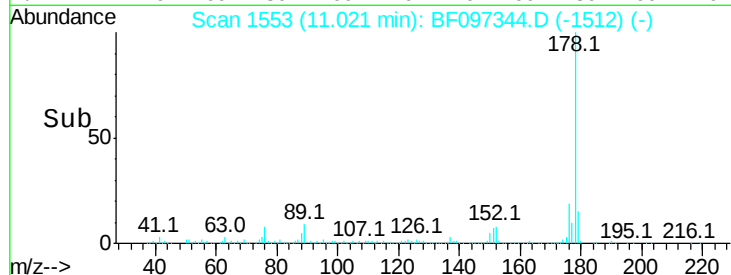
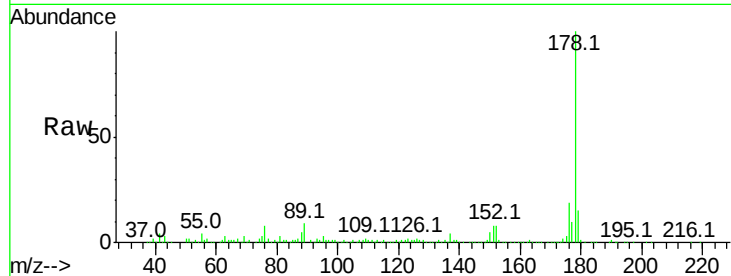
ClientSampled :

TP-3D68

Tot Ion:	178	Resp:	260733
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.8	23.8
179	15.3	12.7	19.1

Manual Integrations
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#72

Carbazole

Concen: 14.524 ng

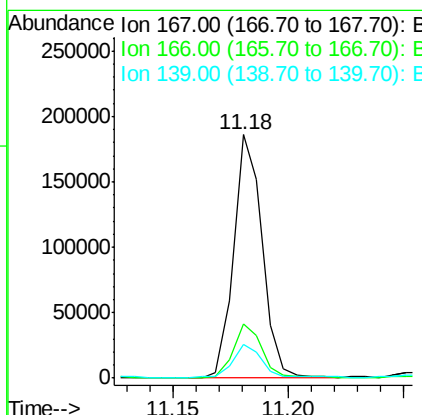
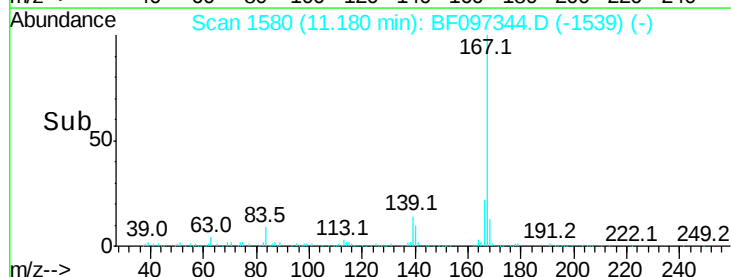
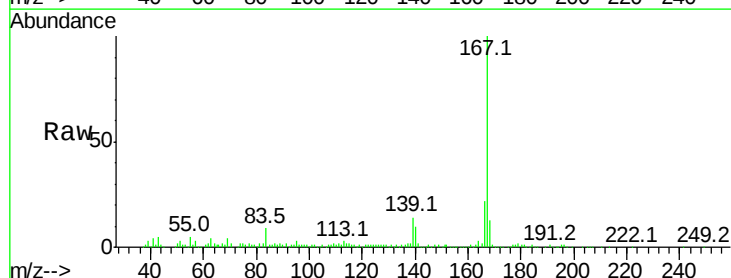
RT: 11.18 min Scan# 1580

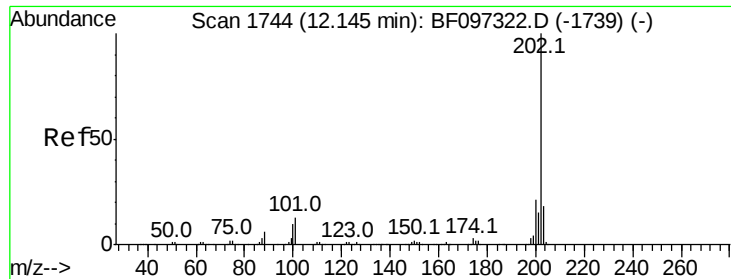
Delta R.T. -0.06 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Tgt Ion:	167	Resp:	158761
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.1	27.1
139	13.9	11.7	17.5





#74

Fluoranthene

Concen: 90.732 ng

RT: 12.16 min Scan# 1747

Delta R.T. -0.05 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Instrument :

BNA_F

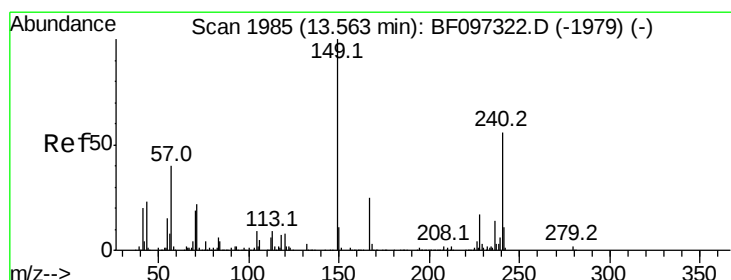
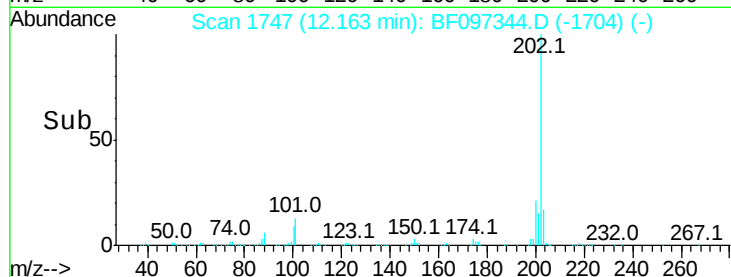
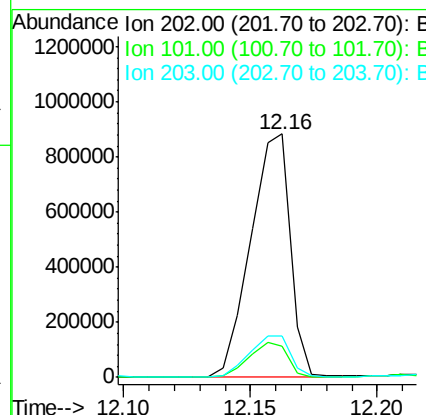
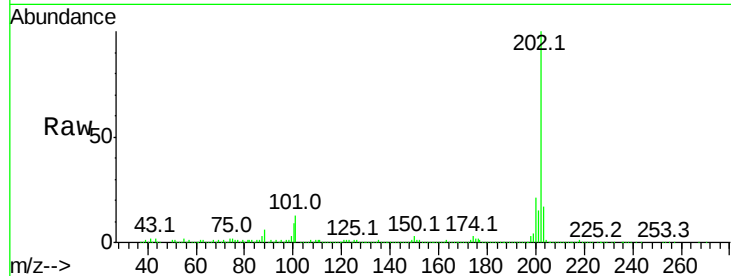
ClientSampleId :

TP-3D68

Tot Ion:	202	Resp:	964557
Ion Ratio		Lower	Upper
202	100		
101	12.7	0.0	33.2
203	17.2	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

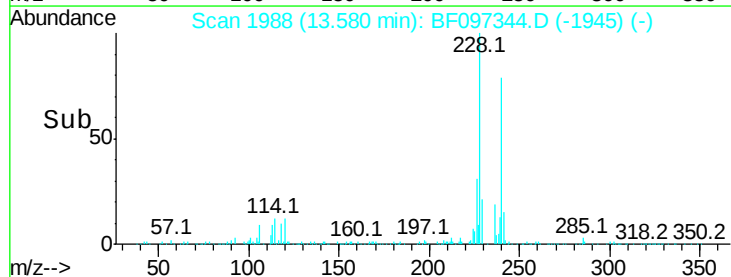
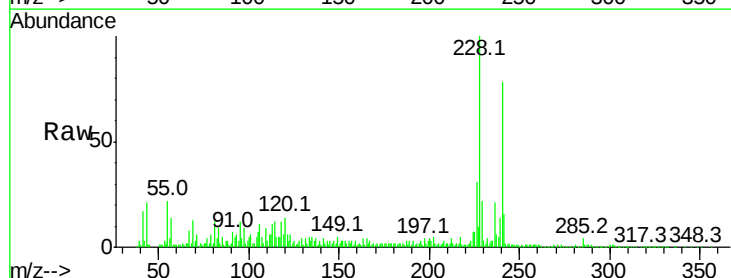
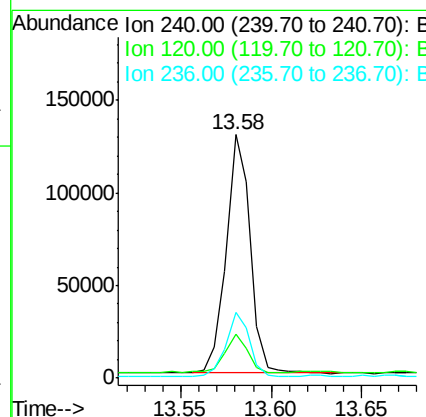
RT: 13.58 min Scan# 1988

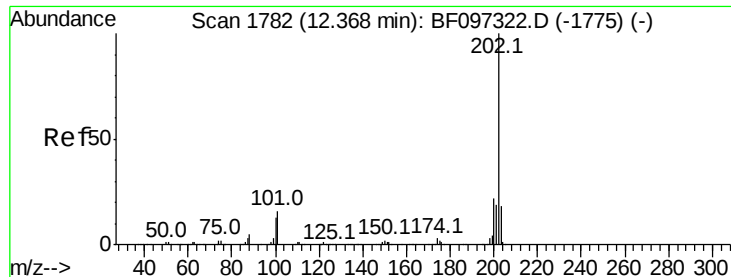
Delta R.T. -0.05 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Tgt Ion:	240	Resp:	117688
Ion Ratio		Lower	Upper
240	100		
120	18.1	5.8	8.8#
236	27.0	20.5	30.7





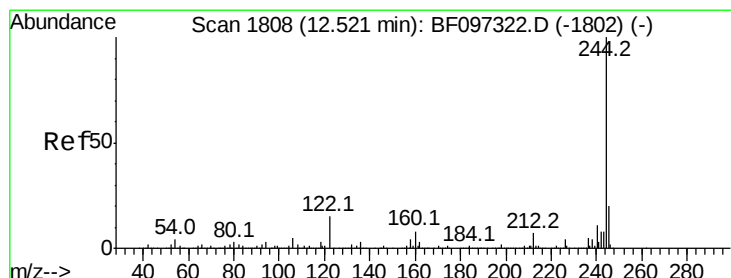
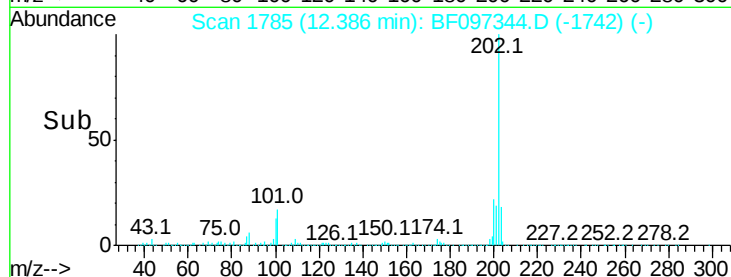
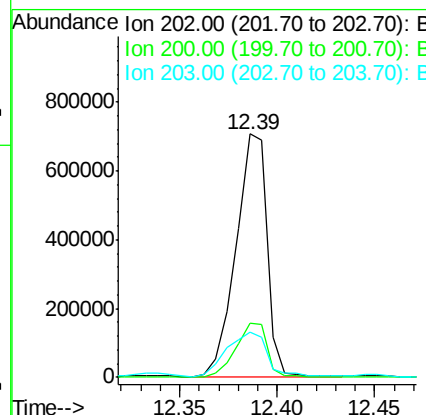
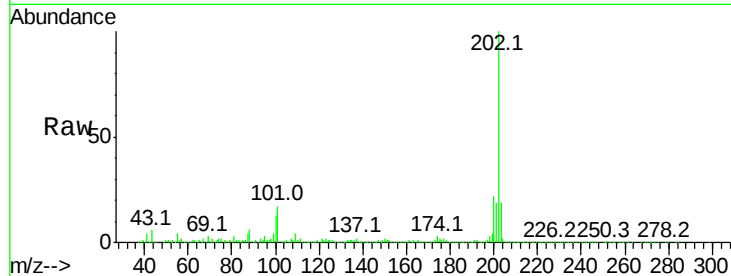
#77
Pvrene
Concen: 80.798 ng
RT: 12.39 min Scan# 1785
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.3	17.6	26.4
203	18.6	14.4	21.6

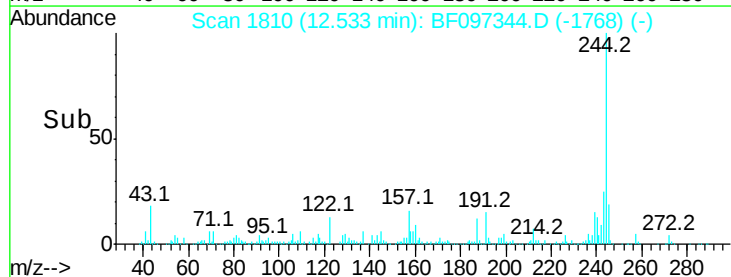
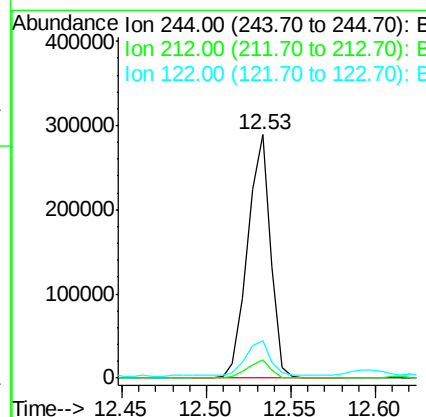
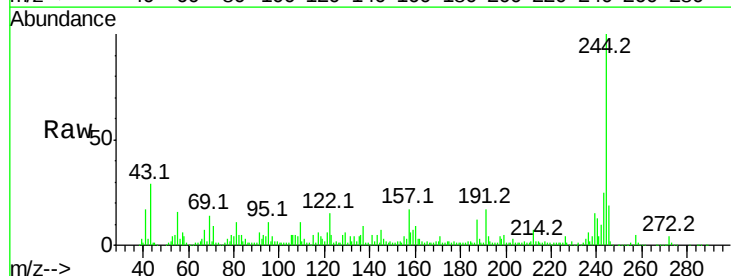
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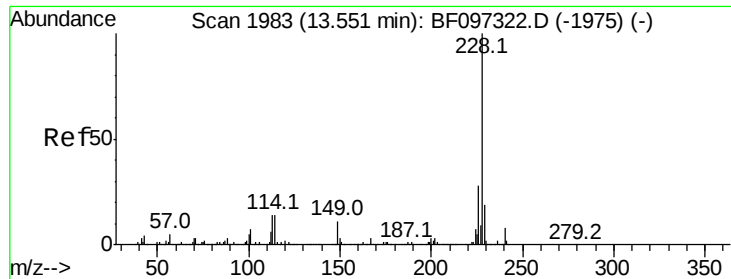
Sohil
8/4/2017 5:31:06 PM



#78
Terphenyl-d14
Concen: 47.531 ng
RT: 12.53 min Scan# 1810
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.4	6.0	9.0
122	15.4	10.3	15.5





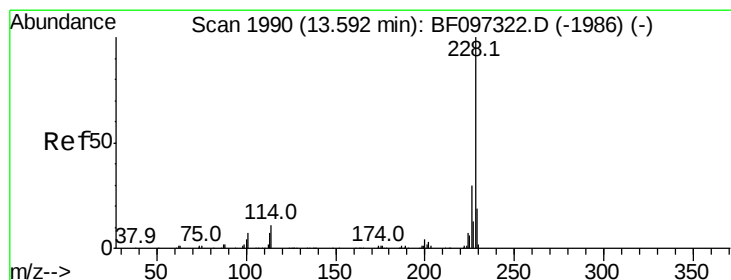
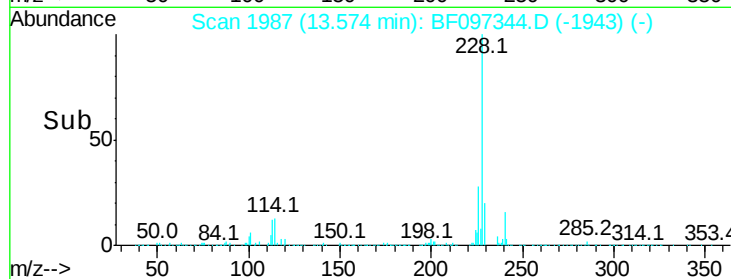
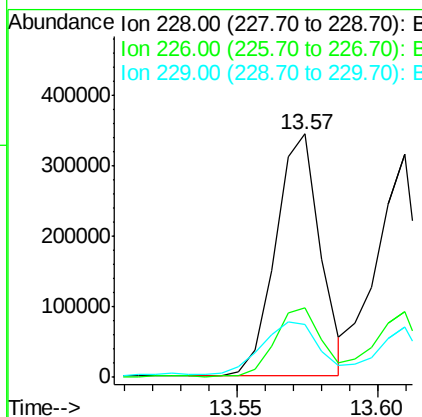
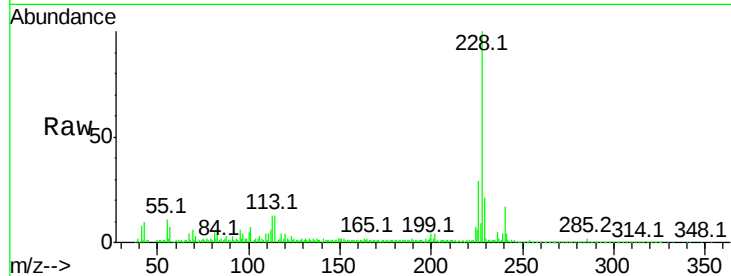
#80
Benzo(a)anthracene
Concen: 49.506 ng
RT: 13.57 min Scan# 1987
Delta R.T. -0.04 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Resp	Lower	Upper
228	100	376985		
226	28.8		22.6	33.8
229	21.5		16.3	24.5

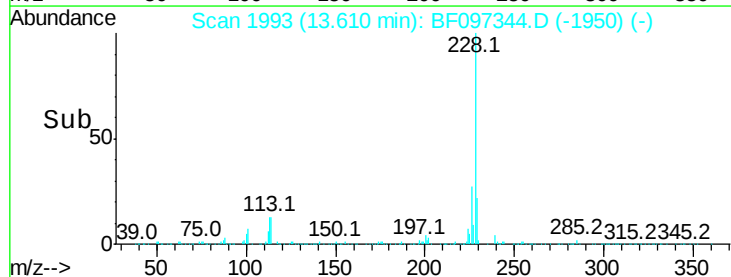
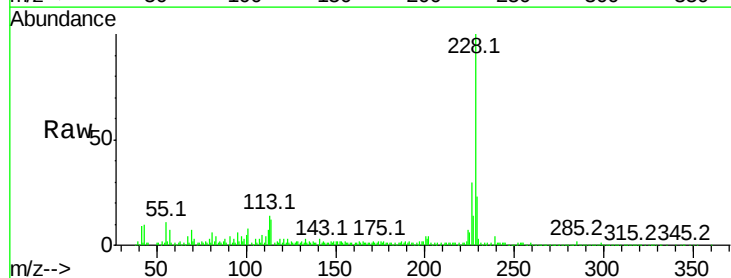
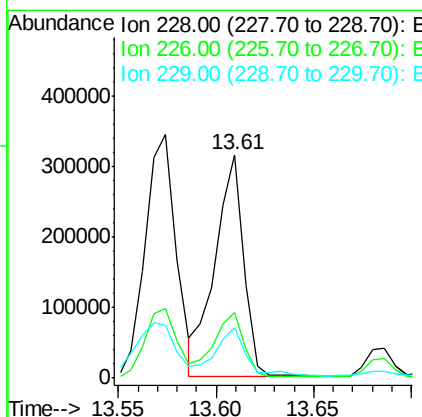
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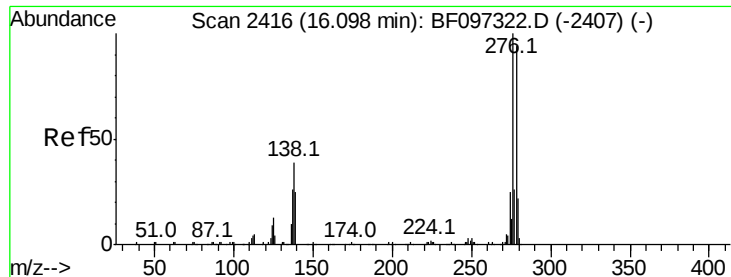
Sohil
8/4/2017 5:31:06 PM



#82
Chrysene
Concen: 43.330 ng
RT: 13.61 min Scan# 1993
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	322188		
226	29.6		24.9	37.3
229	22.8		15.8	23.6





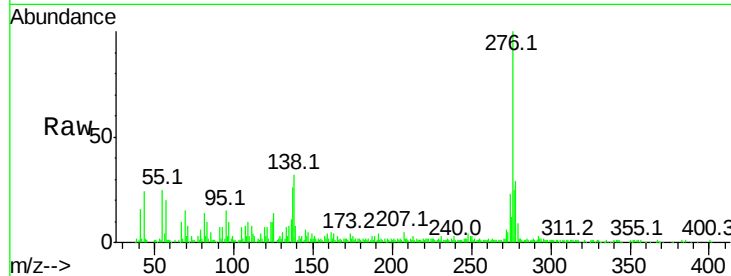
#85
Indeno(1,2,3-cd)pyrene
Concen: 22.906 ng
RT: 16.13 min Scan# 2422
Delta R.T. -0.07 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.1	27.8	41.6
277	25.1	20.2	30.4

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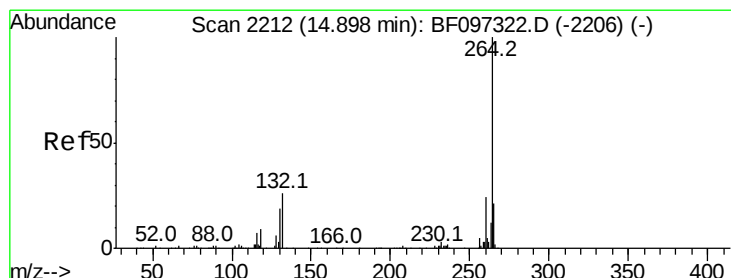
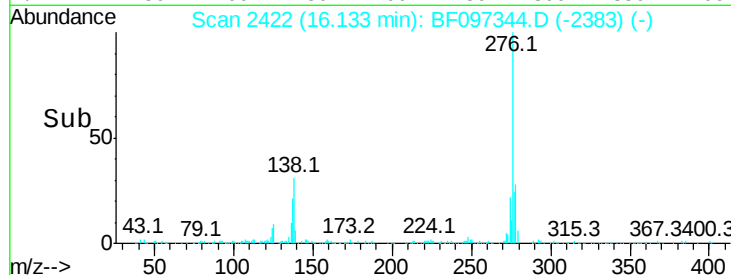
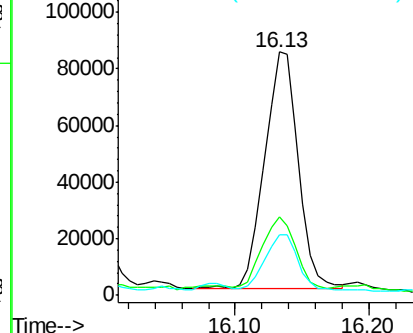


Abundance

Ion 276.00 (275.70 to 276.70): E

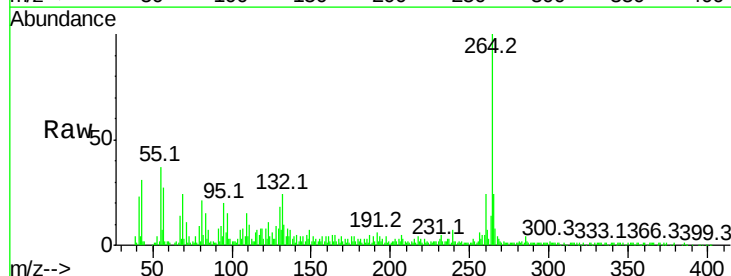
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 14.93 min Scan# 2217
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	24.0	17.2	25.8

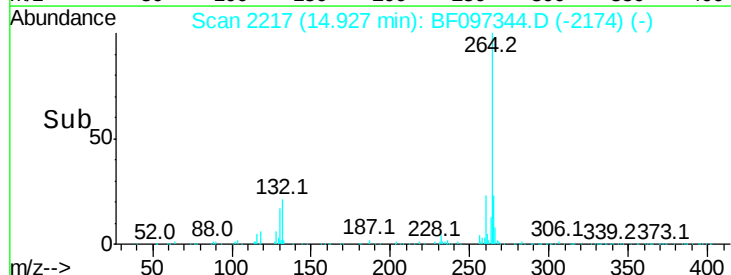
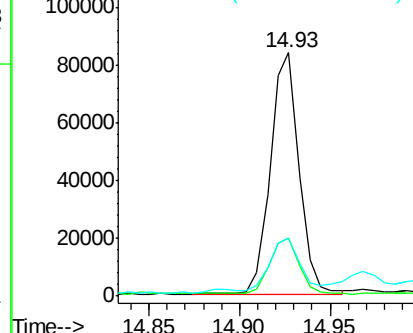


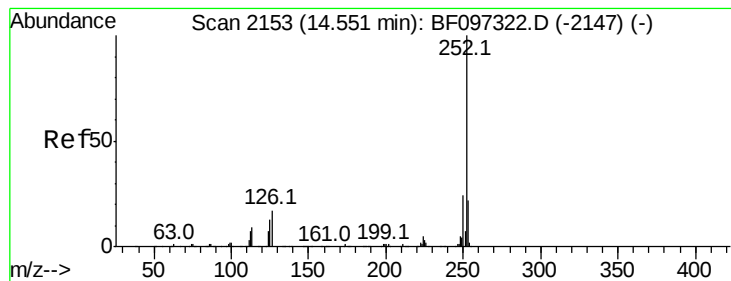
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 59.386 ng m

RT: 14.57 min Scan# 2157

Delta R.T. -0.04 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Instrument :

BNA_F

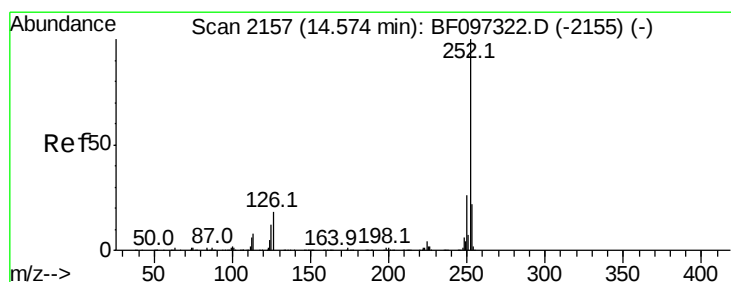
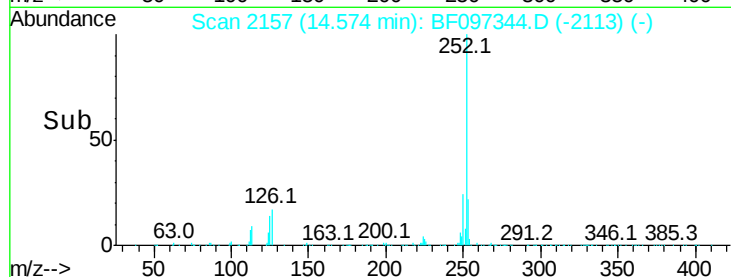
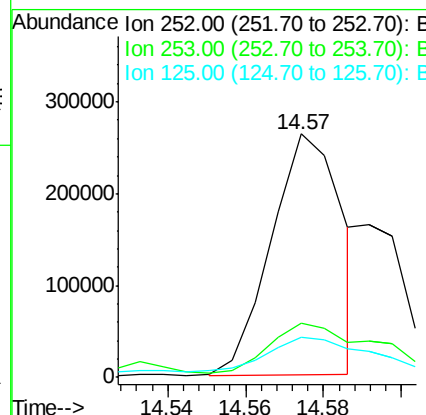
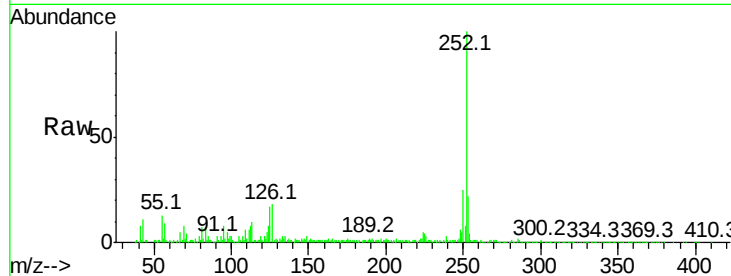
ClientSampleId :

TP-3D68

Tot Ion:	252	Resp:	330377
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.1	27.1
125	16.5	9.8	14.8#

Manual Integrations
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Sohil
8/4/2017 5:31:06 PM



#88

Benzo(k)fluoranthene

Concen: 25.132 ng m

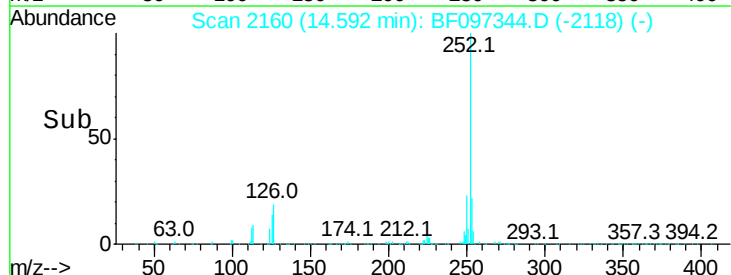
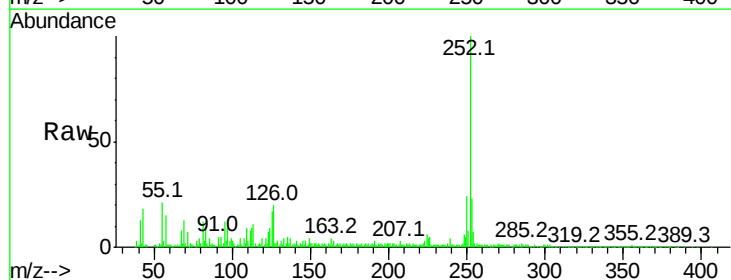
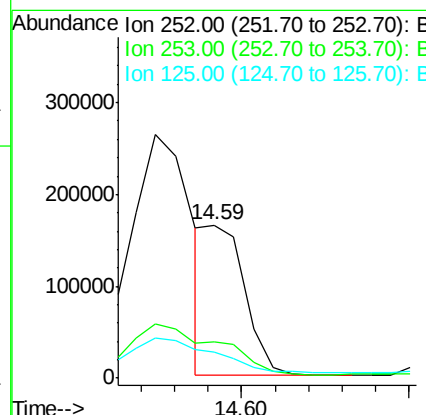
RT: 14.59 min Scan# 2160

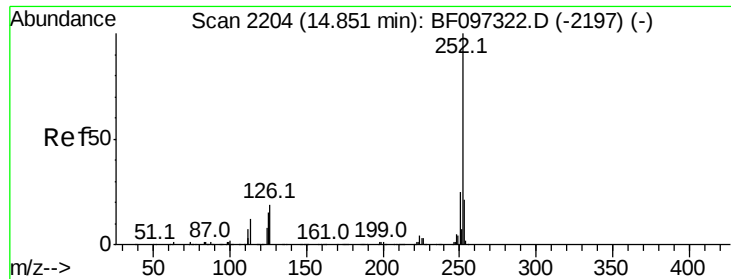
Delta R.T. -0.05 min

Lab File: BF097344.D

Acq: 4 Aug 2017 4:04

Tgt Ion:	252	Resp:	133232
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.4	27.6
125	17.1	13.1	19.7





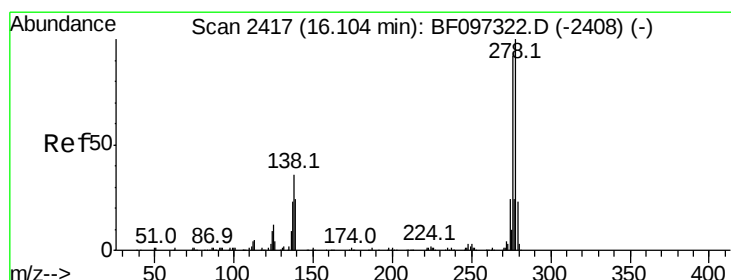
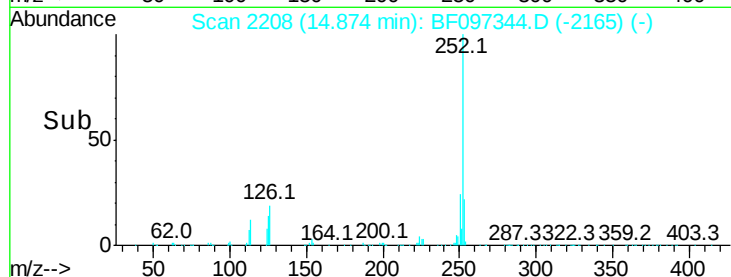
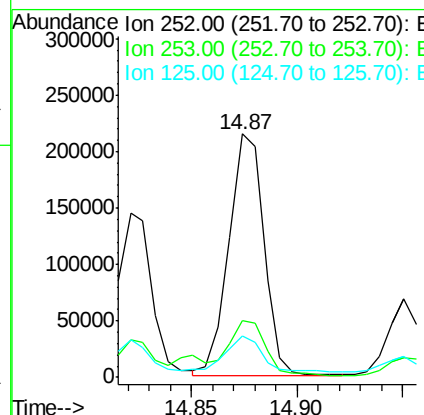
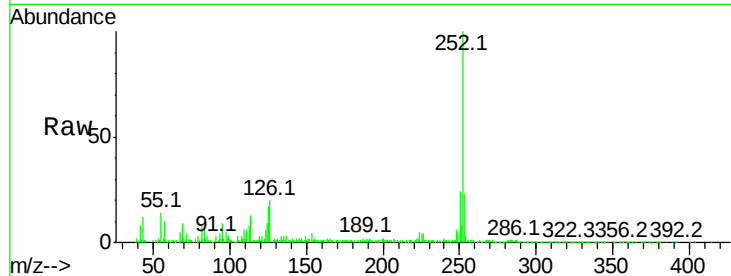
#89
Benzo(a)pyrene
Concen: 48.295 ng
RT: 14.87 min Scan# 2208
Delta R.T. -0.05 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Instrument :
BNA_F
ClientSampleId :
TP-3D68

Tot Ion	Ratio	Resp	Lower	Upper
252	100	245899		
253	23.1		17.5	26.3
125	17.0		11.0	16.4

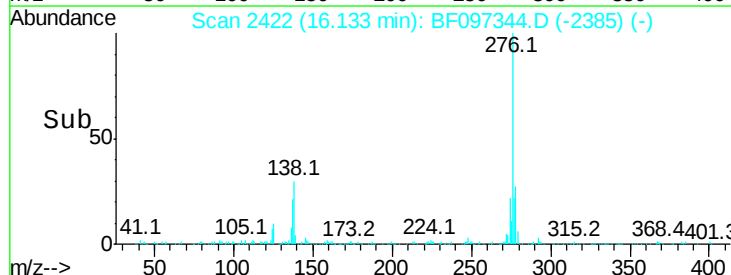
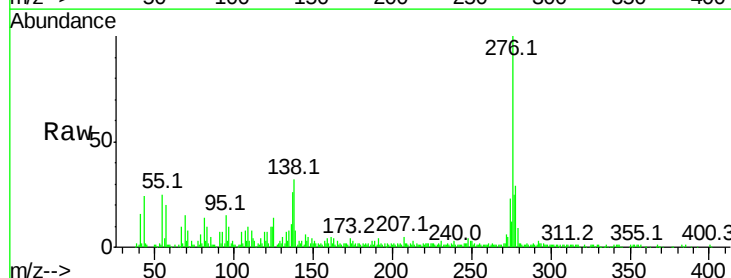
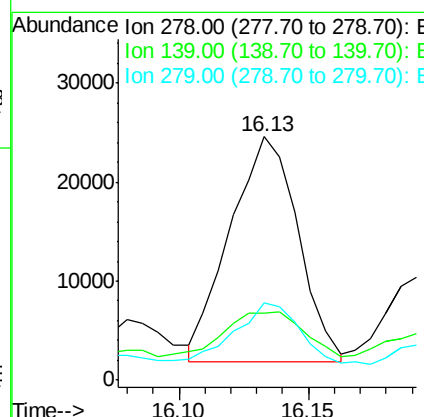
Manual Integrations
APPROVED

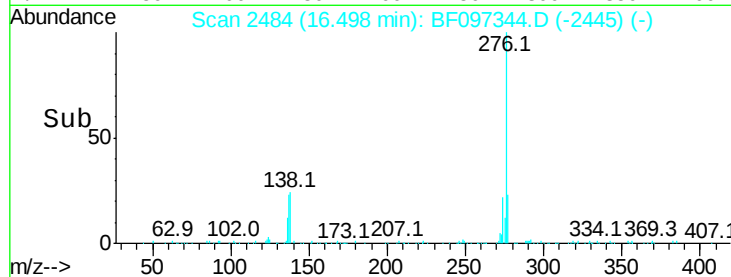
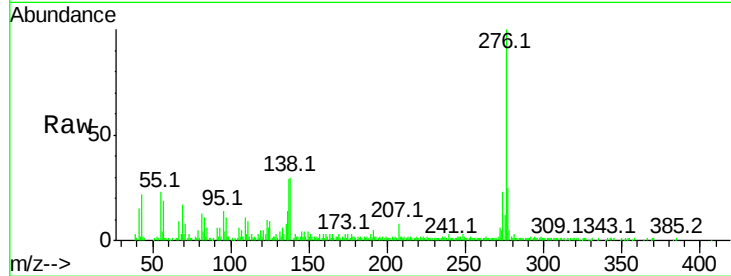
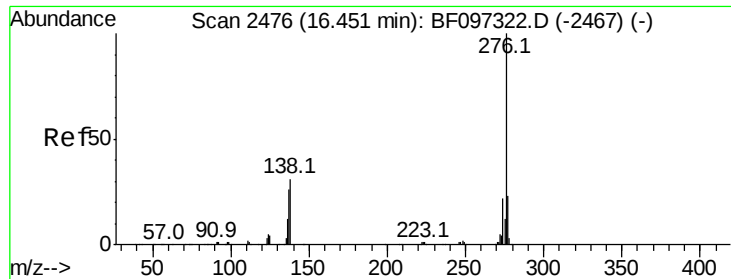
Sohil
8/4/2017 5:31:06 PM



#90
Dibenzo(a,h)anthracene
Concen: 9.899 ng m
RT: 16.13 min Scan# 2422
Delta R.T. -0.08 min
Lab File: BF097344.D
Acq: 4 Aug 2017 4:04

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	41332		
139	27.8		16.6	24.8
279	31.7		19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 31.833 ng
 RT: 16.50 min Scan# 2484
 Delta R.T. -0.07 min
 Lab File: BF097344.D
 Acq: 4 Aug 2017 4:04

Instrument :
 BNA_F
 ClientSampleId :
 TP-3D68

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.6	28.0
138	30.1	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 8/4/2017 5:31:06 PM

