

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090217\
 Data File : BF098263.D
 Acq On : 2 Sep 2017 23:20
 Operator : SJ/JU
 Sample : I5051-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

Manual Integrations
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Quant Time: Sep 04 08:30:40 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	6.71	152	112912	20.00	ng	-0.04
21) Naphthalene-d8	7.99	136	410213	20.00	ng	-0.04
38) Acenaphthene-d10	9.75	164	163487	20.00	ng	-0.04
63) Phenanthrene-d10	11.23	188	296631	20.00	ng	-0.03
75) Chrysene-d12	13.87	240	287566	20.00	ng	-0.03
86) Perylene-d12	15.28	264	234481	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.31	112	146560	19.74	ng	-0.04
7) Phenol-d6	6.35	99	194139	19.25	ng	-0.04
23) Nitrobenzene-d5	7.27	82	109136	14.45	ng	-0.05
41) 2,4,6-Tribromophenol	10.53	330	26449	18.65	ng	-0.04
44) 2-Fluorobiphenyl	9.07	172	161351	14.50	ng	-0.04
78) Terphenyl-d14	12.81	244	129634	9.40	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	8.02	128	75624	3.551	ng	97
37) 2-Methylnaphthalene	8.70	142	34172	2.617	ng	96
48) Acenaphthylene	9.60	152	43997	2.543	ng	# 95
51) Acenaphthene	9.77	154	68414	6.271	ng	95
54) Dibenzofuran	9.95	168	64421	4.406	ng	98
57) Fluorene	10.29	166	91303	8.077	ng	93
70) Phenanthrene	11.26	178	1084741	68.626	ng	100
71) Anthracene	11.30	178	283866	17.706	ng	100
72) Carbazole	11.46	167	74913	4.923	ng	97
74) Fluoranthene	12.45	202	1081655	65.561	ng	98
77) Pyrene	12.67	202	1119146	47.584	ng	99
80) Benzo(a)anthracene	13.86	228	513455	29.791	ng	97
82) Chrysene	13.89	228	451840	26.354	ng	98
85) Indeno(1,2,3-cd)pyrene	16.64	276	149187	11.829	ng	# 89
87) Benzo(b)fluoranthene	14.88	252	439278m	29.721	ng	
88) Benzo(k)fluoranthene	14.90	252	126880m	9.137	ng	
89) Benzo(a)pyrene	15.22	252	324361	24.790	ng	99
90) Dibenzo(a,h)anthracene	16.66	278	36644	3.440	ng	93
91) Benzo(g,h,i)perylene	17.06	276	137579	12.378	ng	95

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

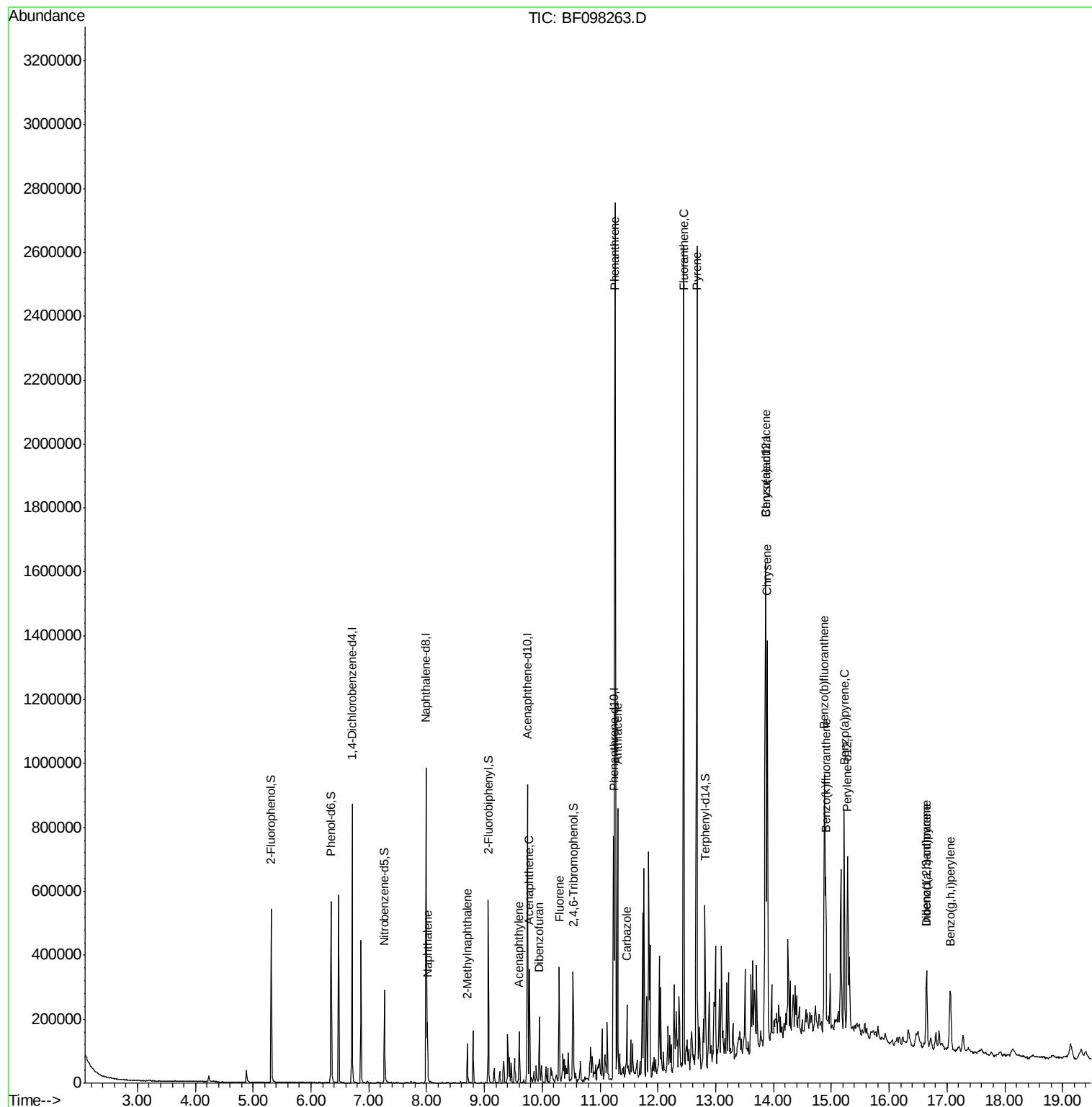
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090217\
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ALS Vial : 21 Sample Multiplier: 1

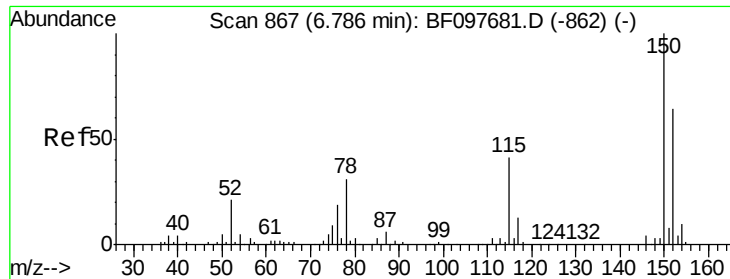
Instrument :
BNA_F
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TEC-B2-COMP

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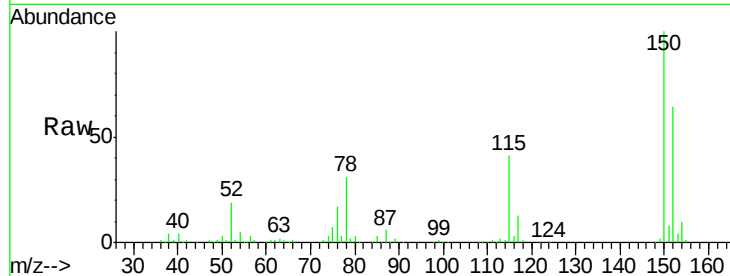
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.71 min Scan# 786
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.6	126.2	189.2
115	64.1	52.2	78.2

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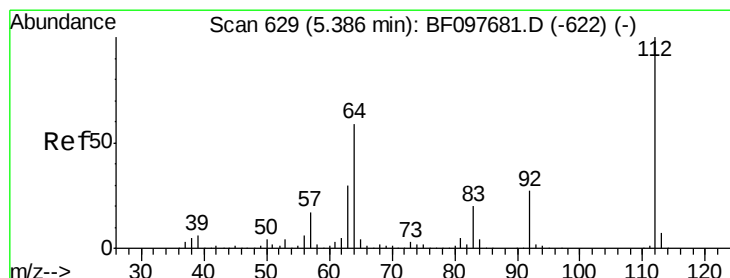
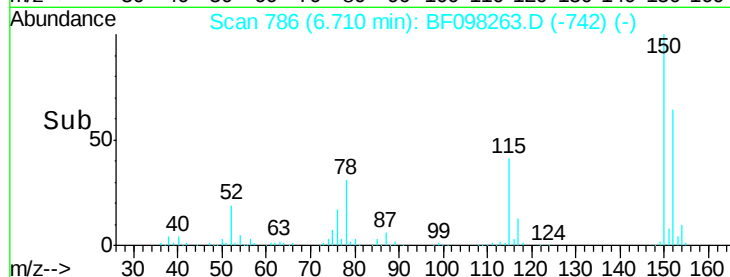
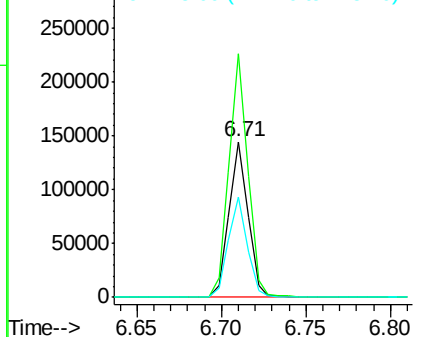


Abundance

Ion 152.00 (151.70 to 152.70): E

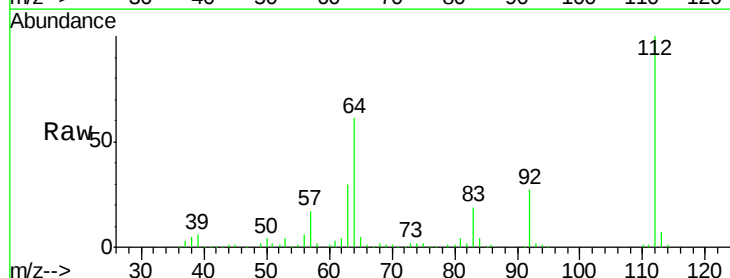
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 19.744 ng
 RT: 5.31 min Scan# 548
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	46.0	69.0
63	30.4	23.4	35.0

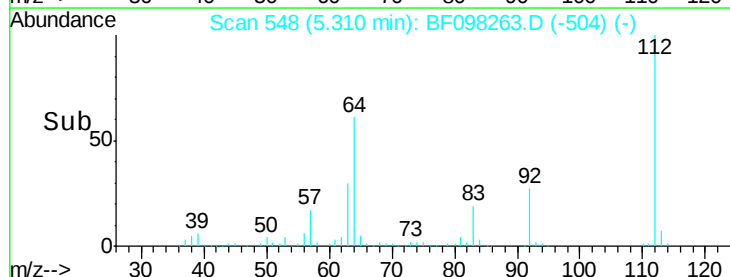
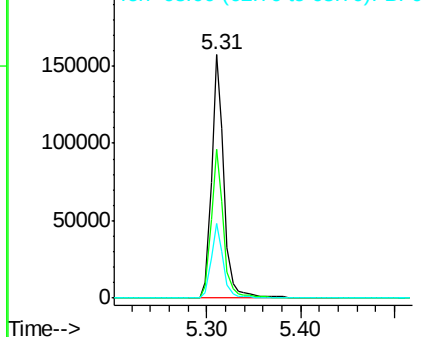


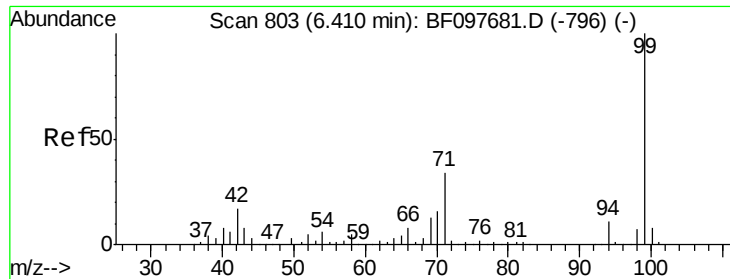
Abundance

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: 19.248 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.04 min

Lab File: BF098263.D

Acq: 2 Sep 2017 23:20

Instrument :

BNA_F

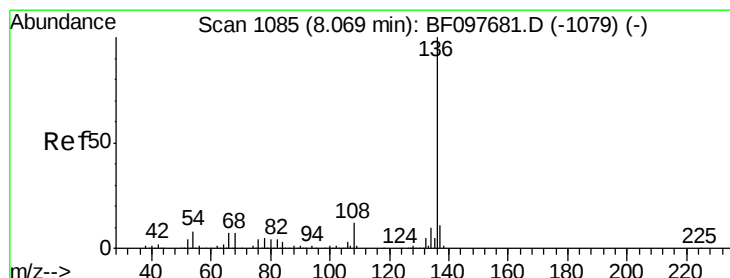
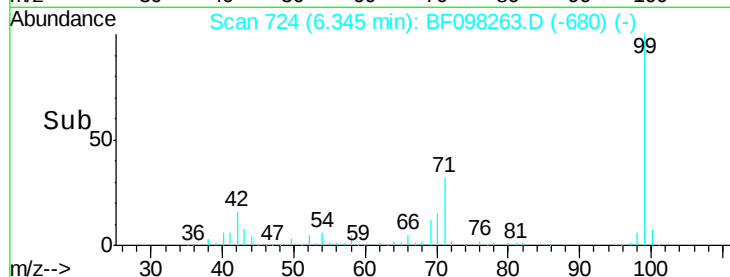
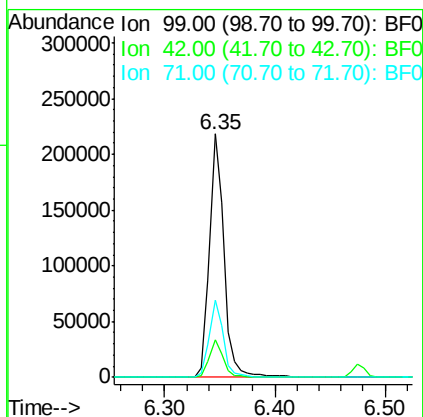
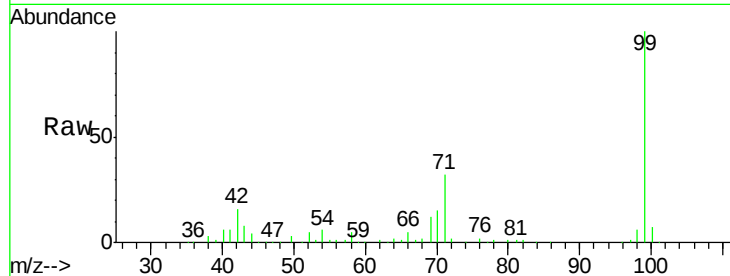
ClientSampleId :

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Tgt Ion:	99	Resp:	194139
Ion Ratio	Lower	Upper	
99	100		
42	15.5	13.5	20.3
71	31.8	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

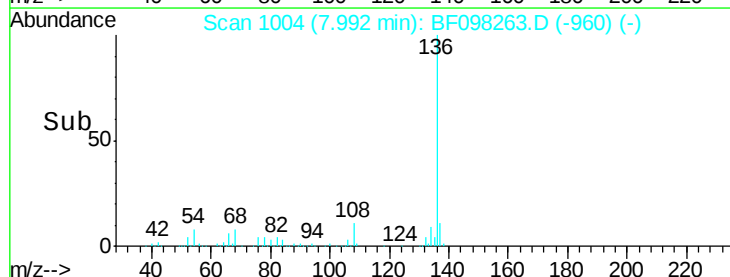
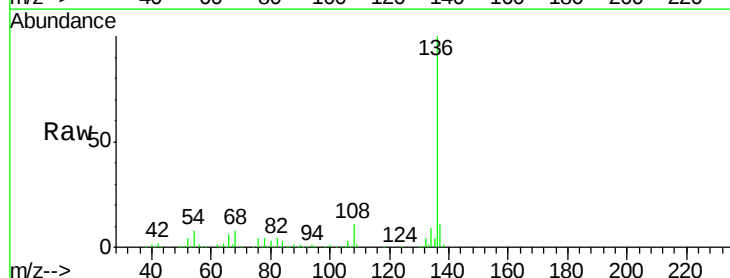
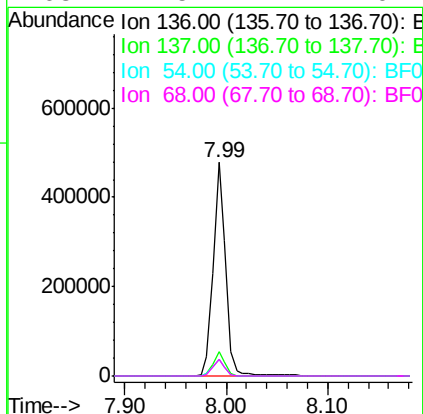
RT: 7.99 min Scan# 1004

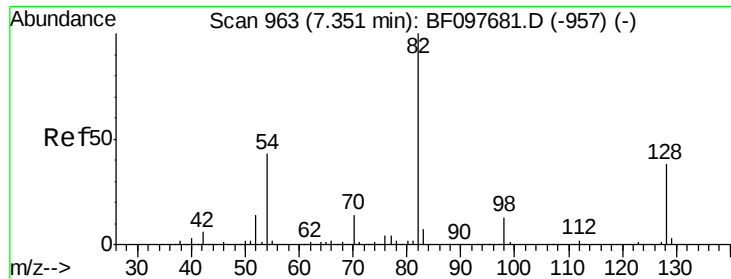
Delta R.T. -0.04 min

Lab File: BF098263.D

Acq: 2 Sep 2017 23:20

Tgt Ion:	136	Resp:	410213
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	7.9	4.9	7.3#
68	7.5	4.1	6.1#





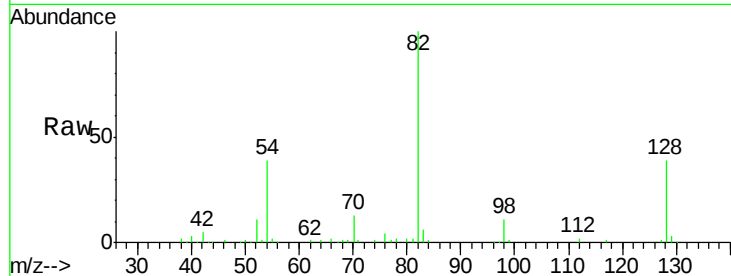
#23
Nitrobenzene-d5
Concen: 14.453 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.05 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

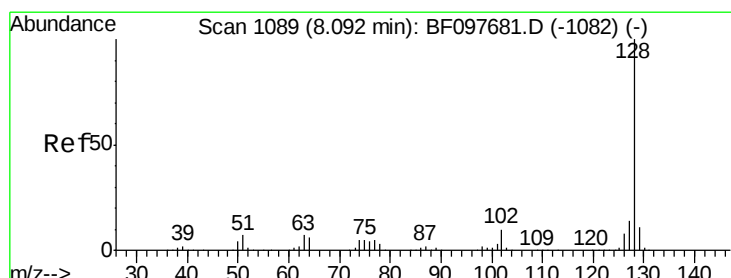
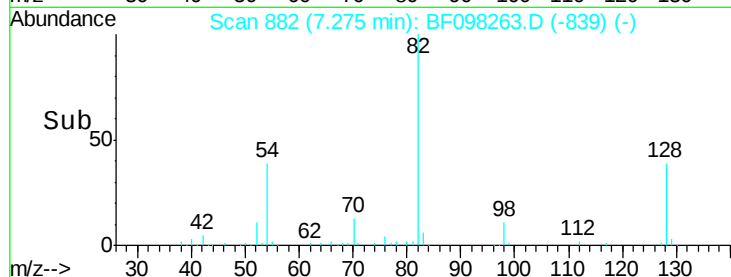
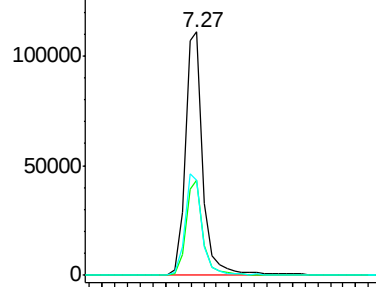
Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.2	34.0	51.0
54	39.2	42.2	63.2

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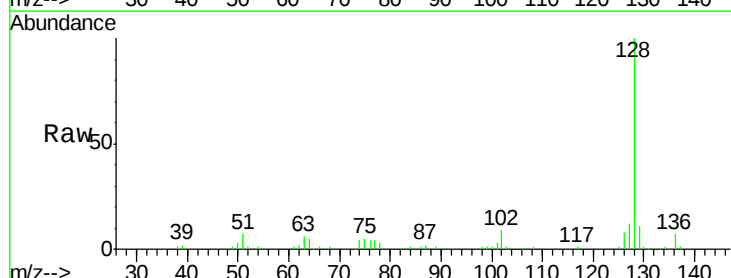


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

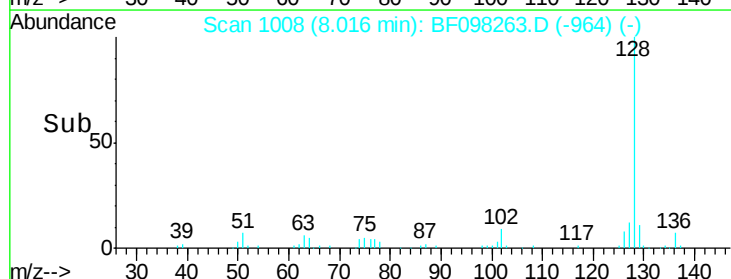
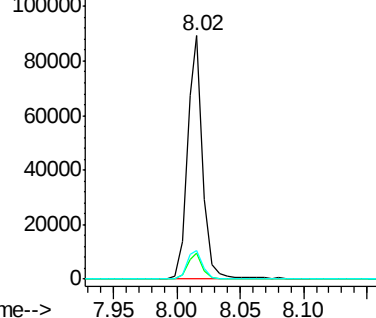


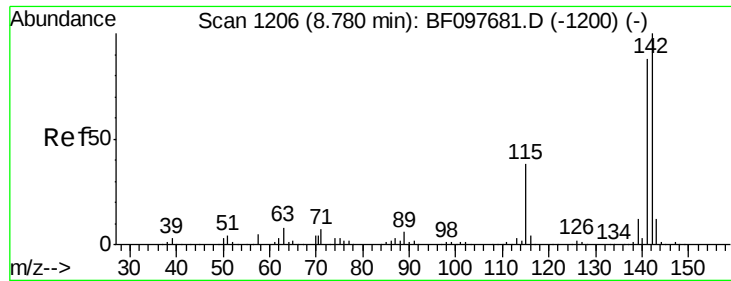
#31
Naphthalene
Concen: 3.551 ng
RT: 8.02 min Scan# 1008
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.0	13.6
127	11.6	10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





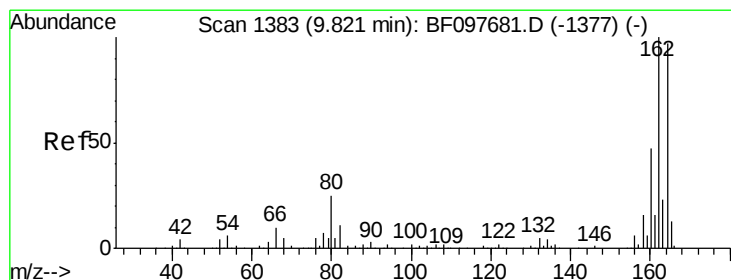
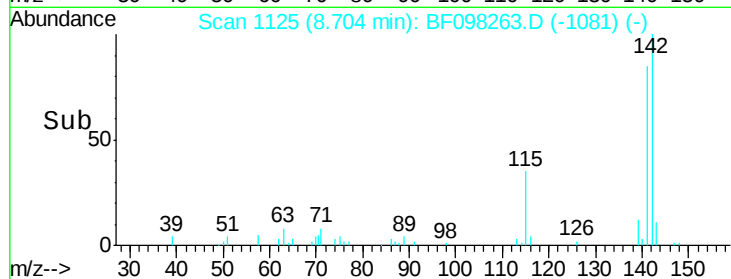
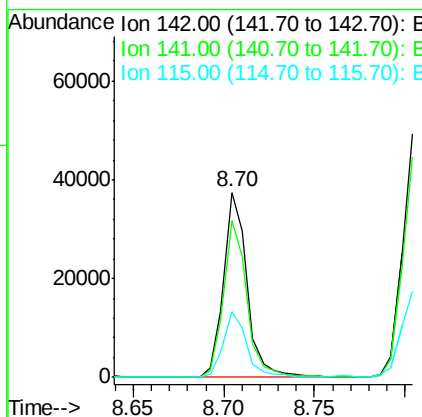
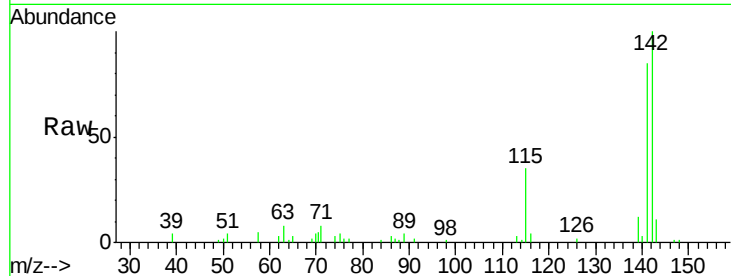
#37
2-Methylnaphthalene
Concen: 2.617 ng
RT: 8.70 min Scan# 1125
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

Tgt Ion:142 Resp: 34172
Ion Ratio Lower Upper
142 100
141 84.7 71.3 106.9
115 35.2 27.1 40.7

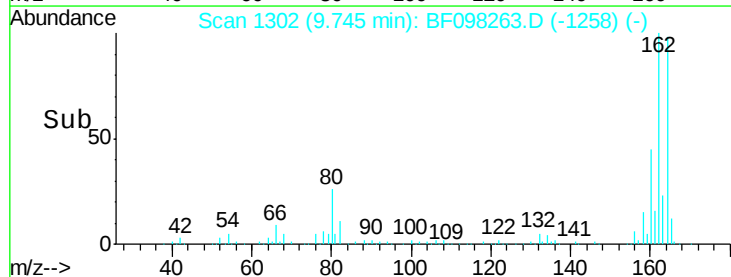
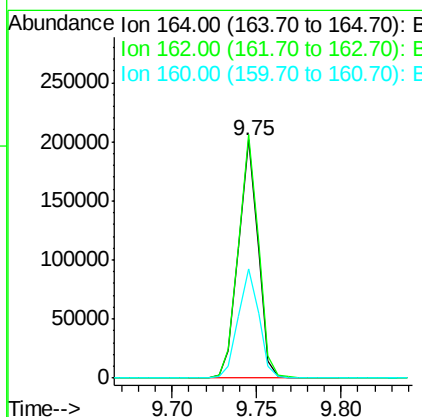
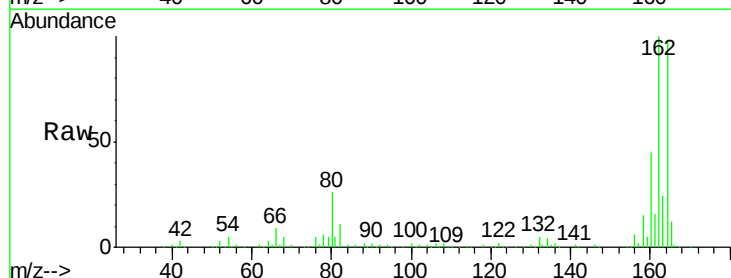
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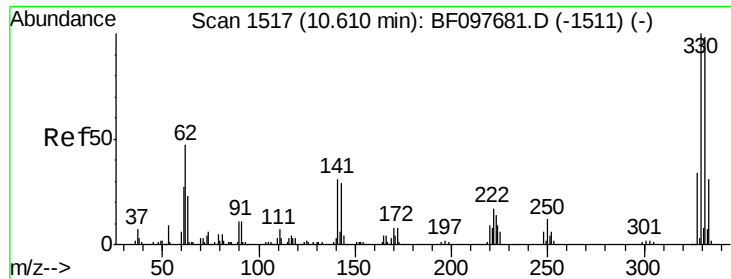
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion:164 Resp: 163487
Ion Ratio Lower Upper
164 100
162 102.2 82.6 123.8
160 45.9 36.2 54.2





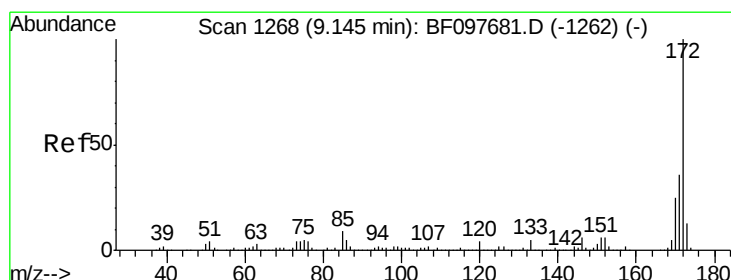
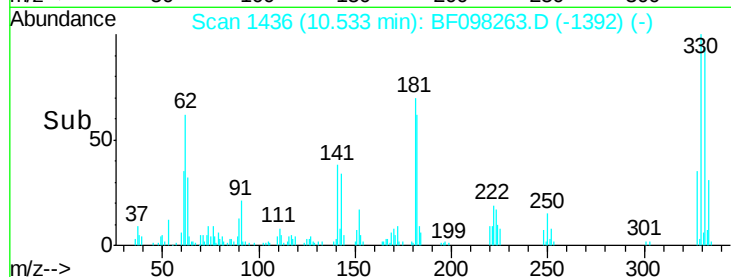
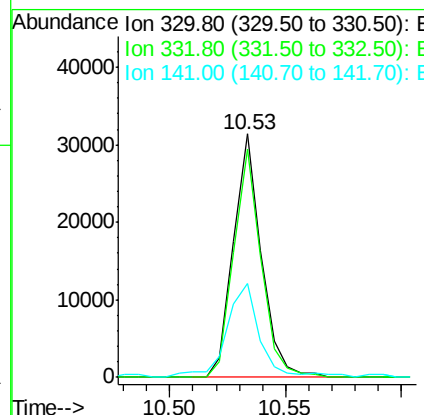
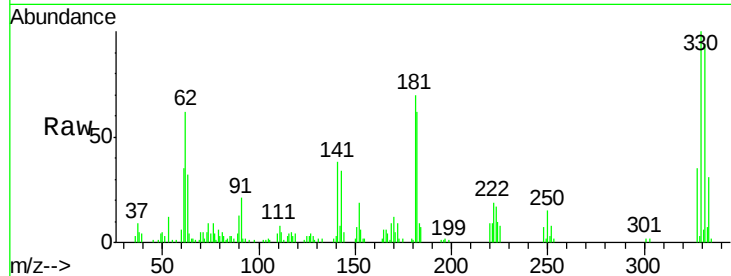
#41
 2,4,6-Tribromophenol
 Concen: 18.646 ng
 RT: 10.53 min Scan# 1436
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.4	76.6	115.0
141	46.1	31.4	47.2

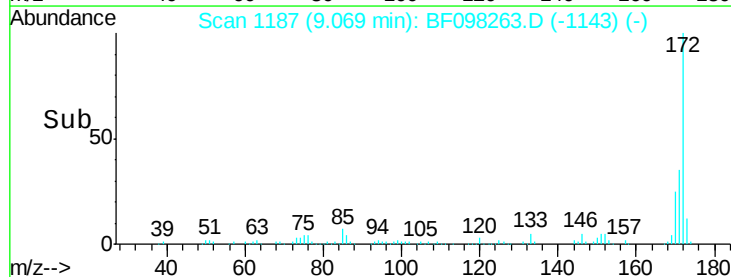
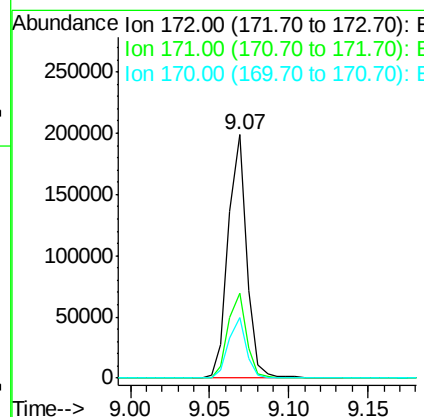
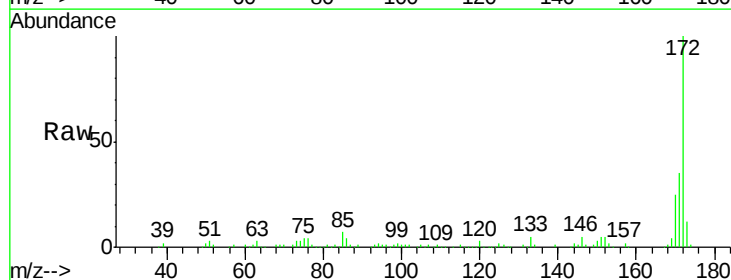
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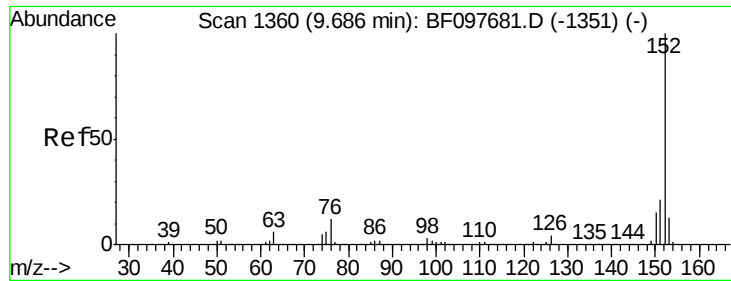
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#44
 2-Fluorobiphenyl
 Concen: 14.500 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.6	44.4
170	24.7	19.8	29.8





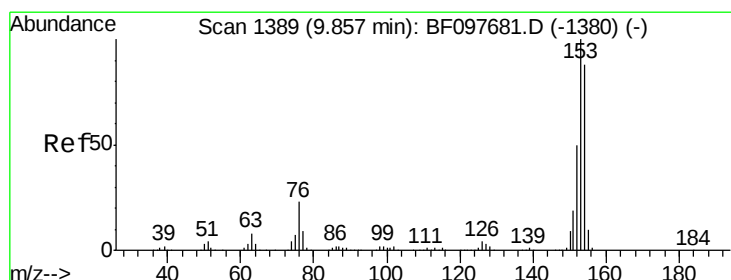
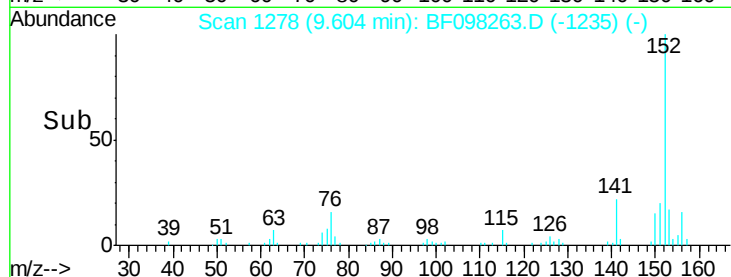
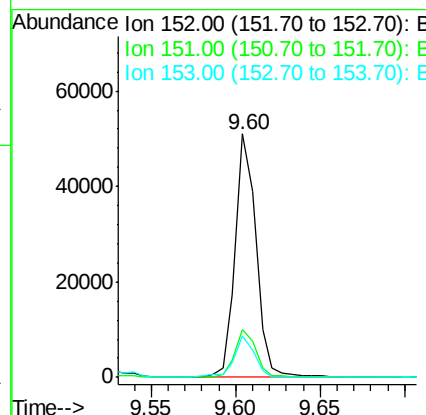
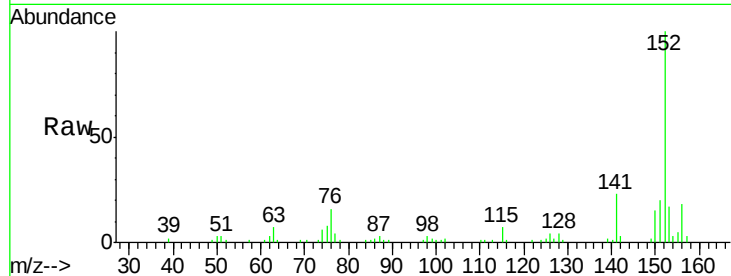
#48
Acenaphthylene
Concen: 2.543 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.05 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.8	25.2
153	17.1	10.8	16.2

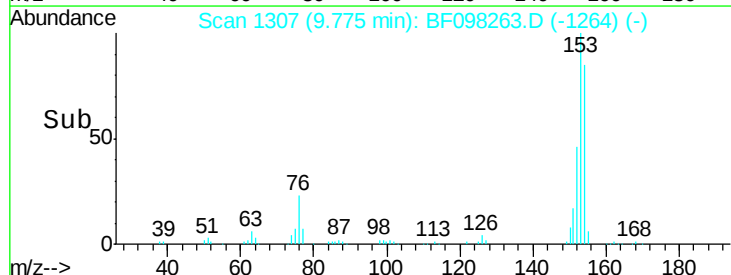
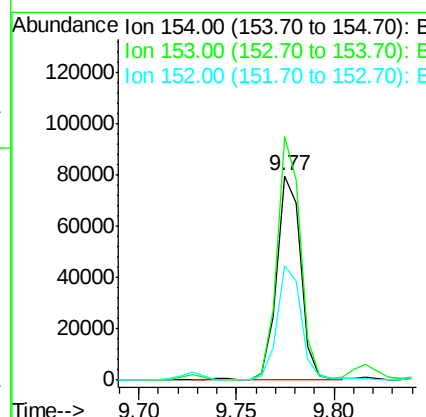
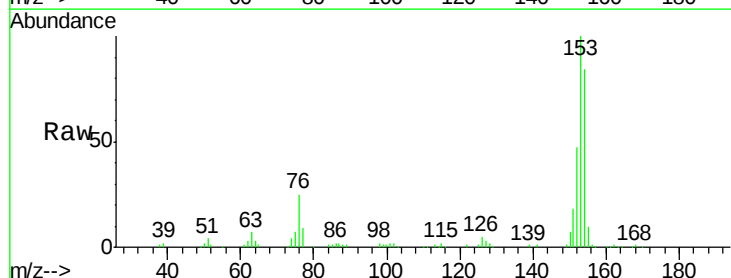
Manual Integrations
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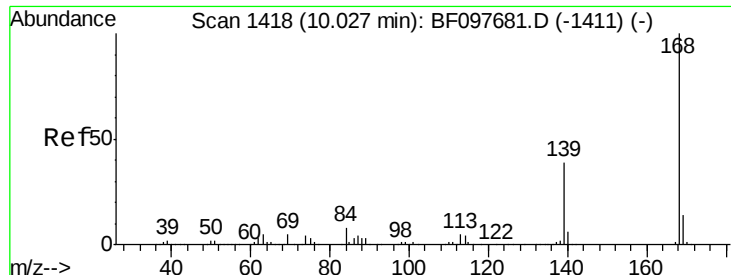
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#51
Acenaphthene
Concen: 6.271 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.05 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

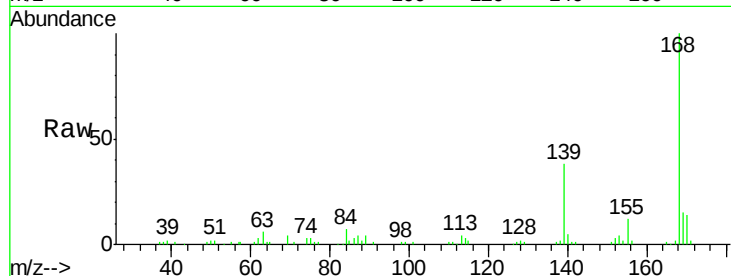
Tgt Ion	Ratio	Lower	Upper
154	100		
153	119.2	90.5	135.7
152	56.0	43.6	65.4





#54
Dibenzenofuran
Concen: 4.406 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

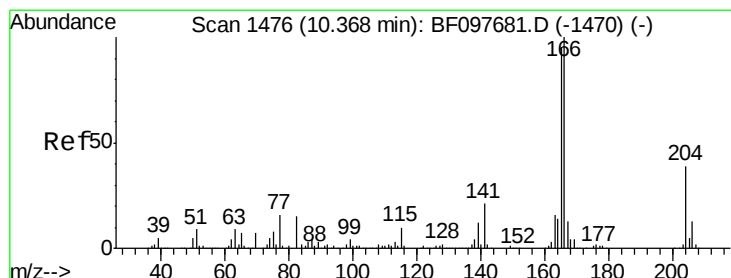
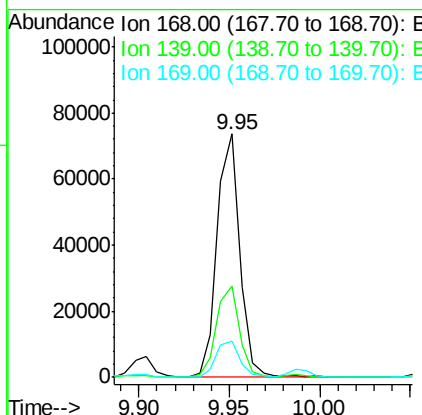
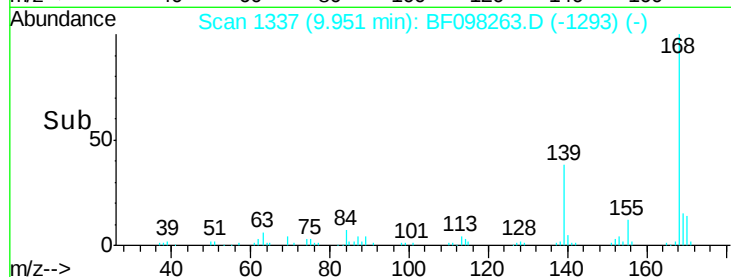
Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP



Tgt Ion:168 Resp: 64421
Ion Ratio Lower Upper
168 100
139 37.6 30.6 45.8
169 15.1 10.8 16.2

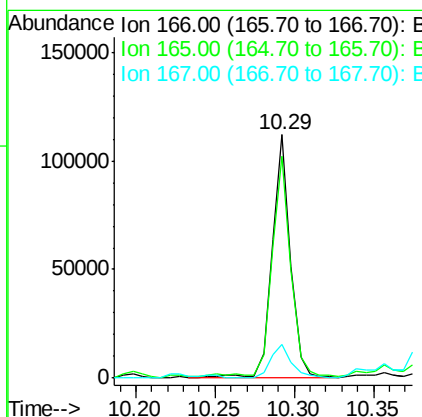
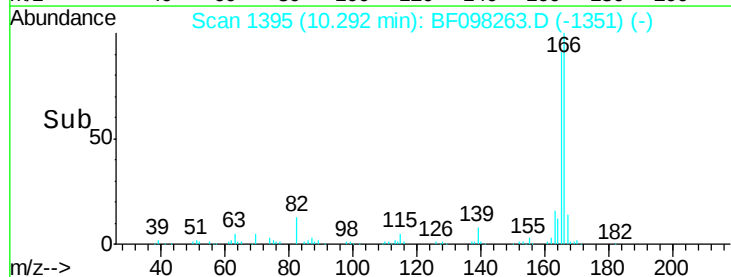
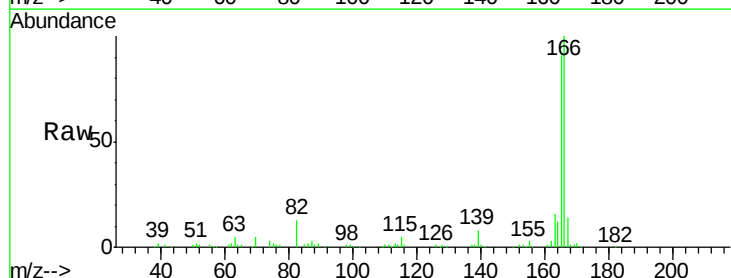
Manual Integrations
APPROVED

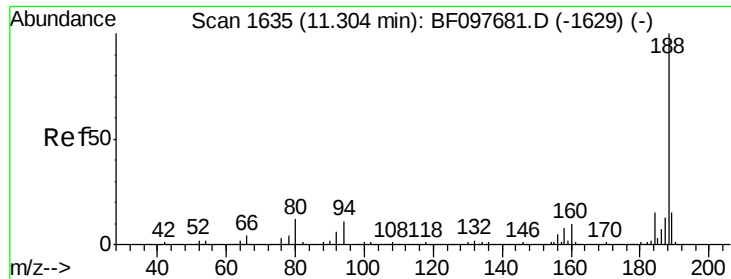
mohammad
9/5/2017 4:57:09 PM



#57
Fluorene
Concen: 8.077 ng
RT: 10.29 min Scan# 1395
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion:166 Resp: 91303
Ion Ratio Lower Upper
166 100
165 91.2 78.8 118.2
167 13.7 10.6 16.0





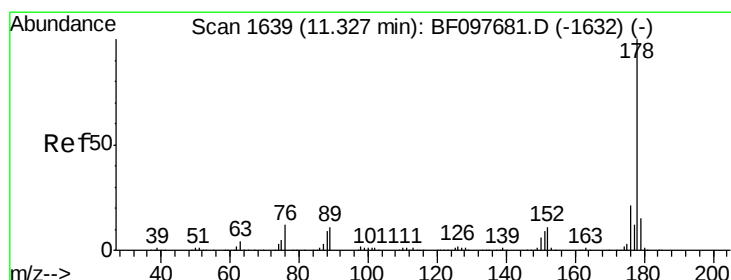
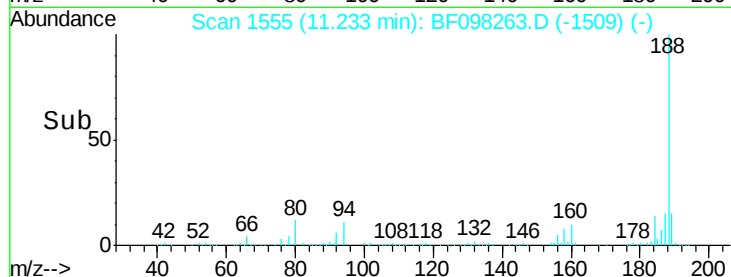
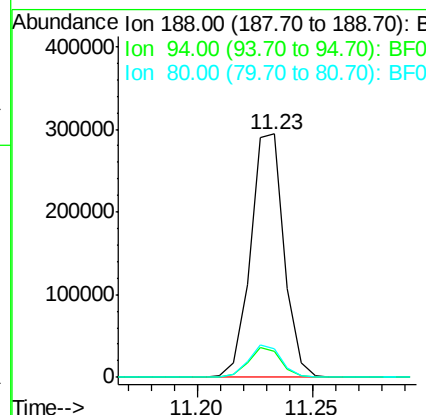
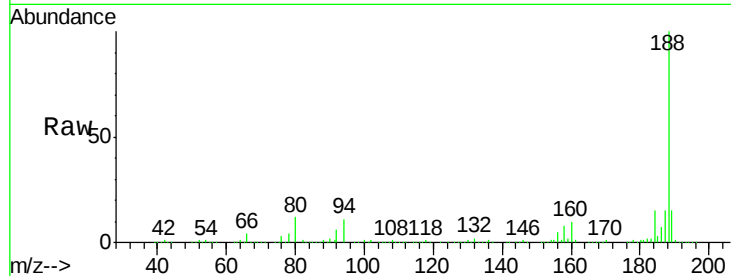
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.03 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.9	9.4	14.2
80	11.7	10.2	15.2

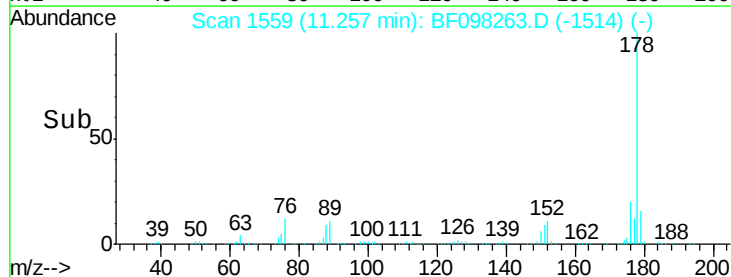
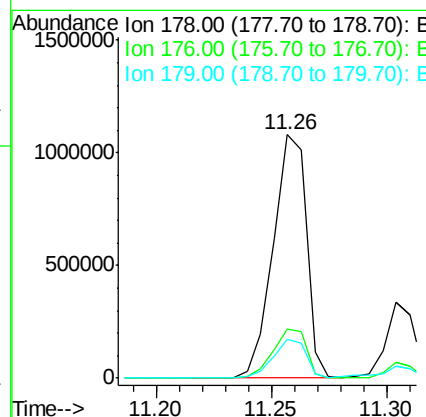
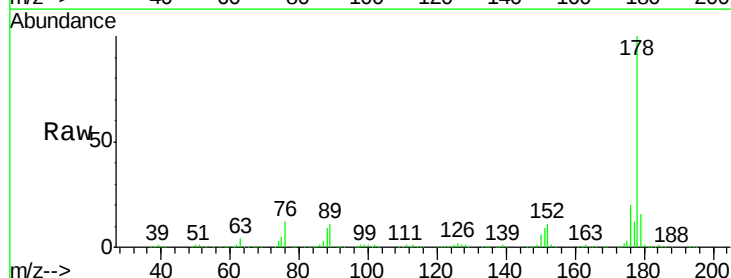
Manual Integrations
APPROVED

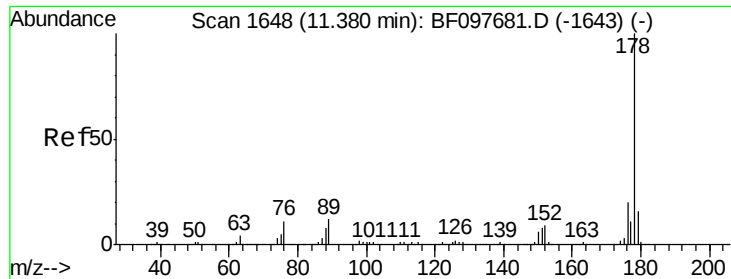
mohammad
9/5/2017 4:57:09 PM



#70
Phenanthrene
Concen: 68.626 ng
RT: 11.26 min Scan# 1559
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.1	16.2	24.4
179	15.9	12.6	19.0





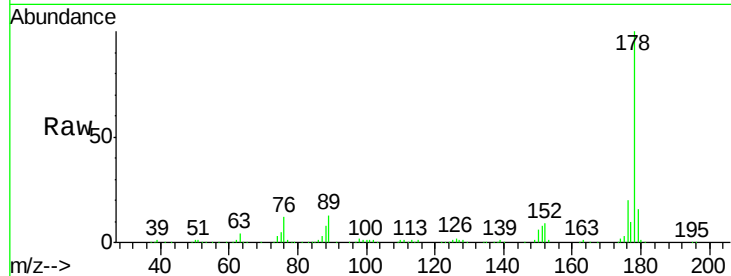
#71
 Anthracene
 Concen: 17.706 ng
 RT: 11.30 min Scan# 1567
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

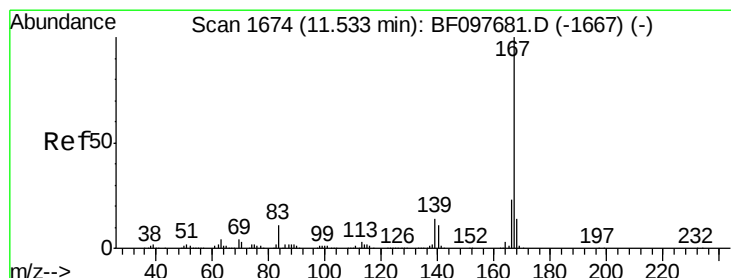
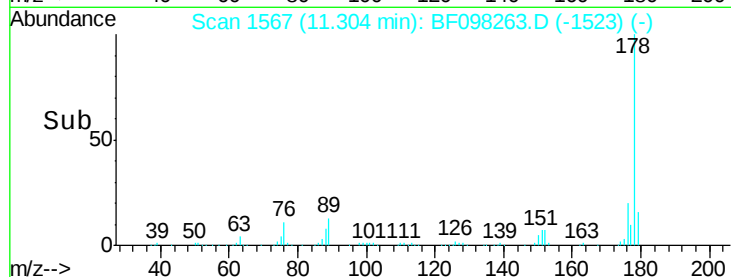
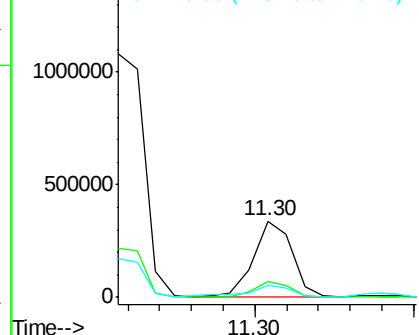
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	283866		
176	19.9	15.8	23.8	
179	15.8	12.7	19.1	

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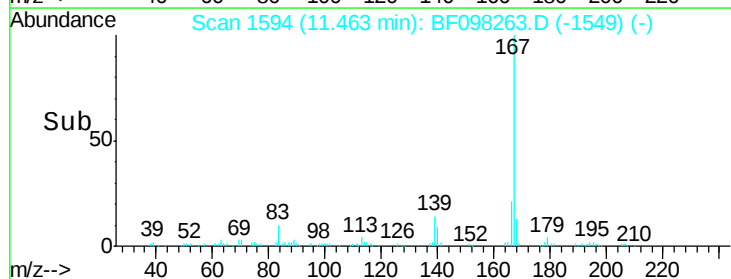
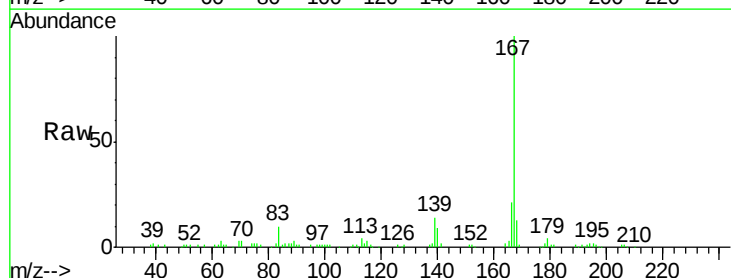
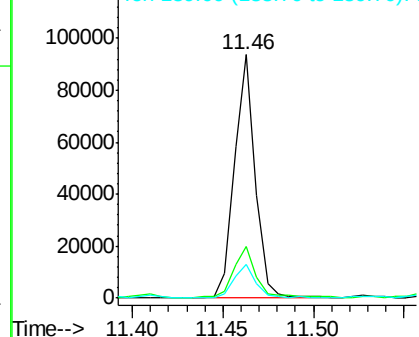
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

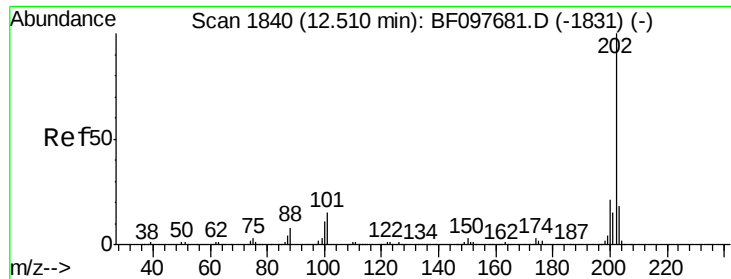


#72
 Carbazole
 Concen: 4.923 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	74913		
166	21.1	18.1	27.1	
139	13.6	11.7	17.5	

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 65.561 ng

RT: 12.45 min Scan# 1761

Delta R.T. -0.03 min

Lab File: BF098263.D

Acq: 2 Sep 2017 23:20

Instrument :

BNA_F

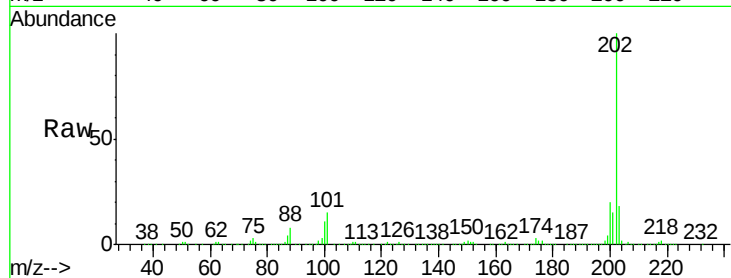
ClientSampleId :

TEC-B2-COMP

Tgt	Ion	202	Resp:	1081655
Ion	Ratio	Lower	Upper	
202	100			
101	15.0	0.0	33.2	
203	18.0	0.0	38.1	

Manual Integrations
APPROVED

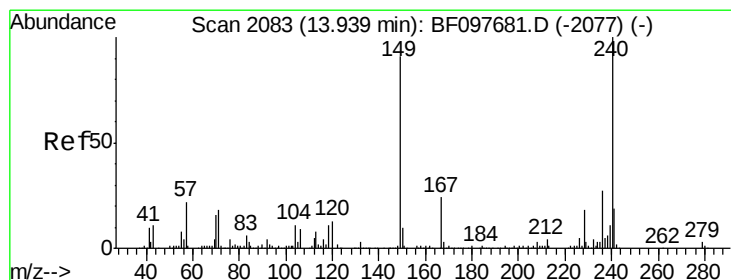
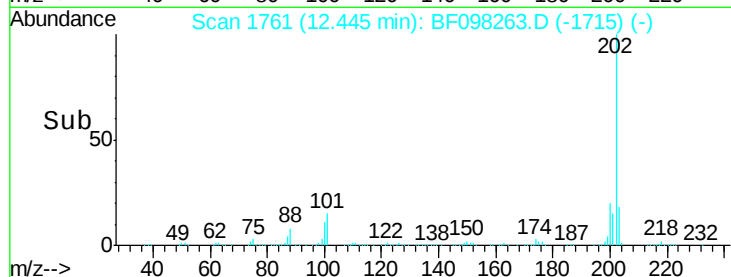
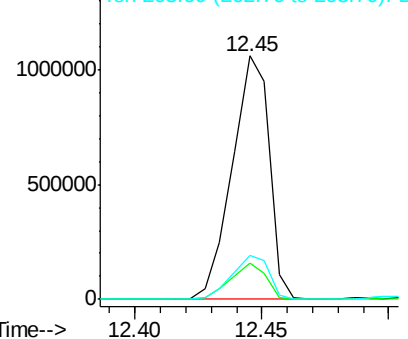
mohammad
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

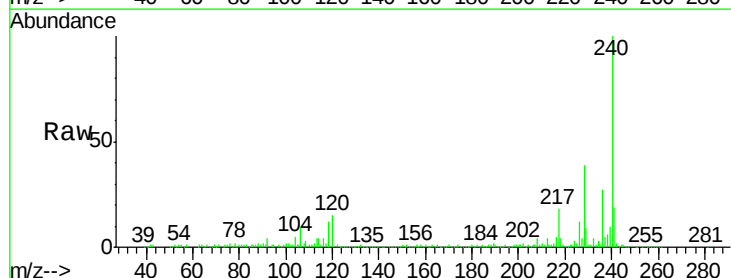
RT: 13.87 min Scan# 2003

Delta R.T. -0.03 min

Lab File: BF098263.D

Acq: 2 Sep 2017 23:20

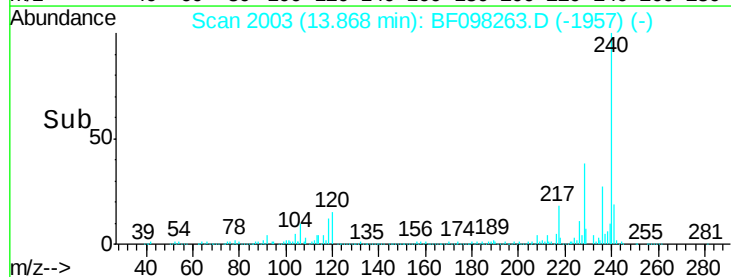
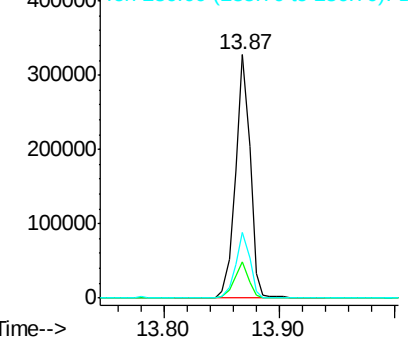
Tgt	Ion	240	Resp:	287566
Ion	Ratio	Lower	Upper	
240	100			
120	14.6	5.8	8.8#	
236	26.8	20.5	30.7	

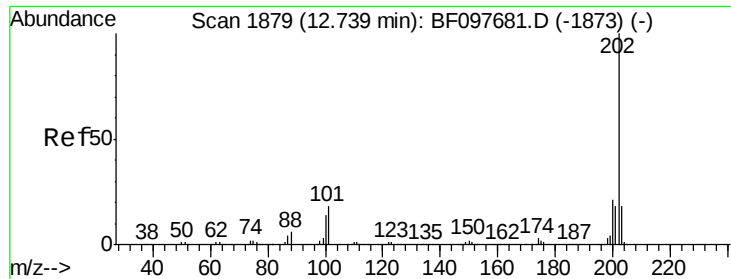


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





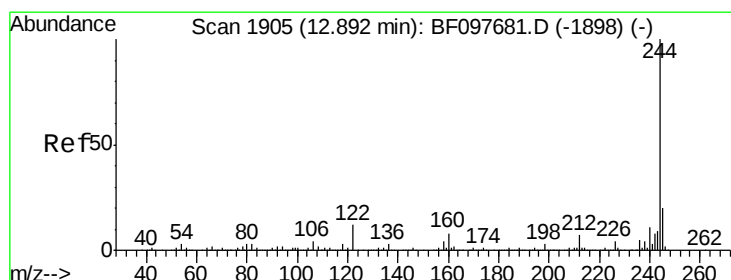
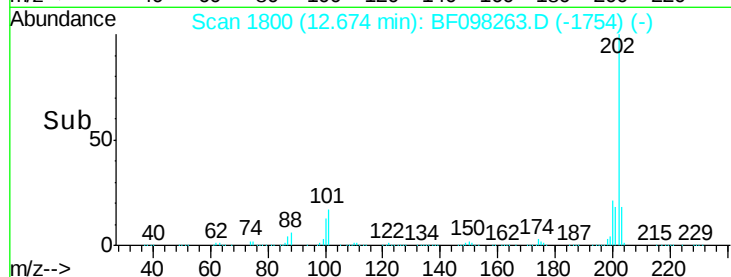
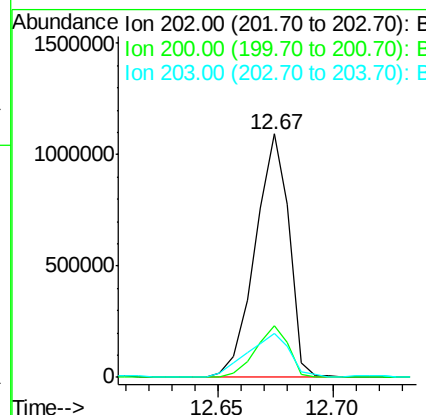
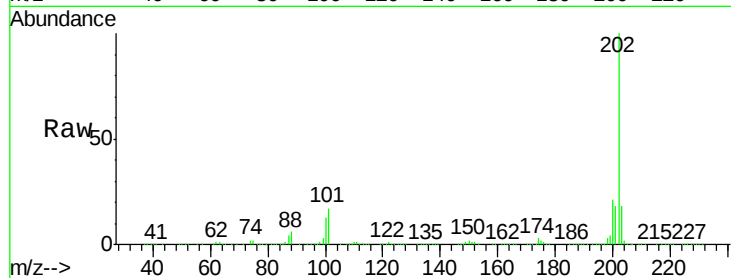
#77
 Pyrene
 Concen: 47.584 ng
 RT: 12.67 min Scan# 1800
 Delta R.T. -0.03 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.6	26.4
203	18.2	14.4	21.6

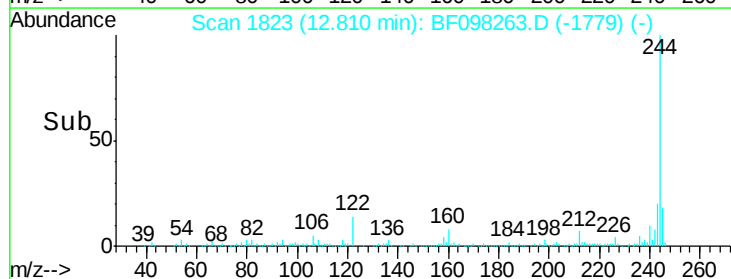
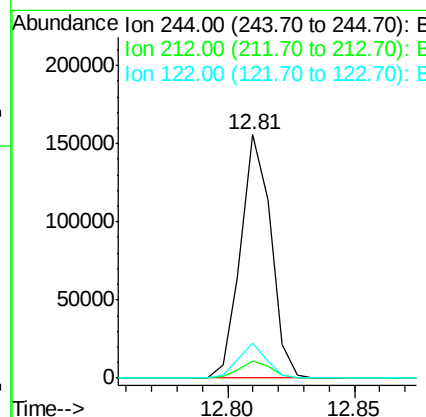
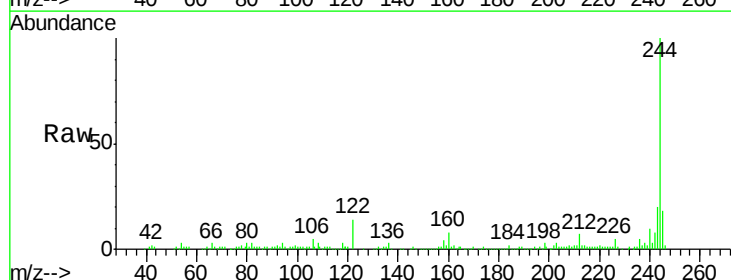
Manual Integrations
 APPROVED

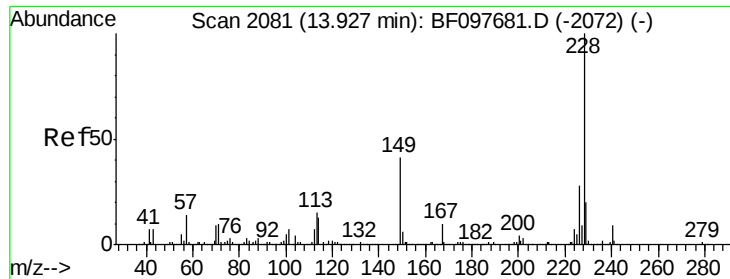
mohammad
 9/5/2017 4:57:09 PM



#78
 Terphenyl-d14
 Concen: 9.401 ng
 RT: 12.81 min Scan# 1823
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	14.1	10.3	15.5





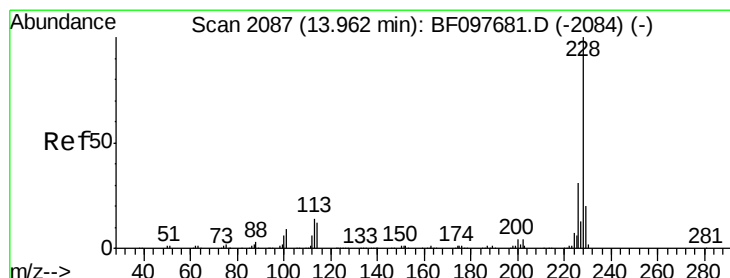
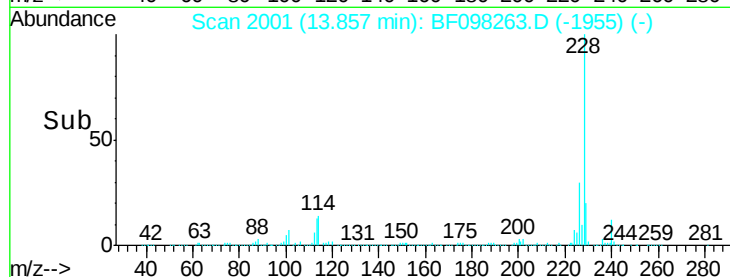
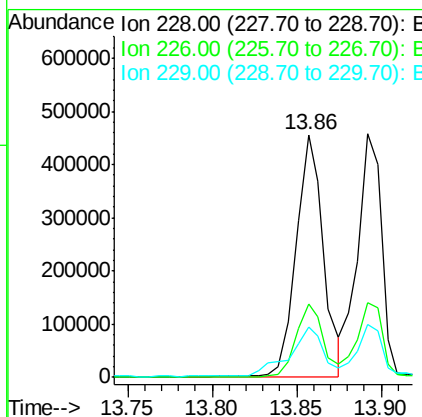
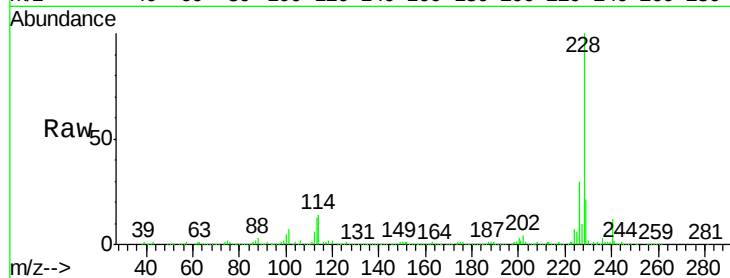
#80
Benzo(a)anthracene
Concen: 29.791 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.03 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.6	33.8
229	20.7	16.3	24.5

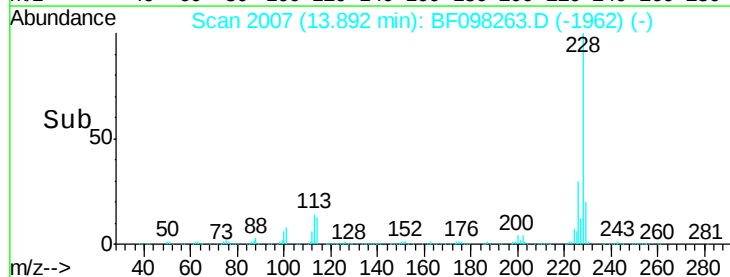
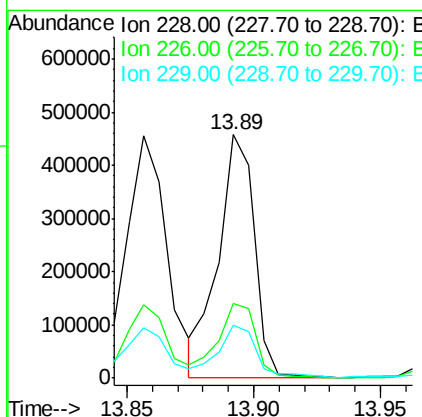
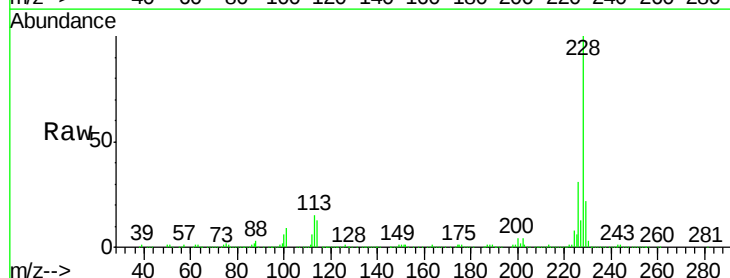
Manual Integrations
APPROVED

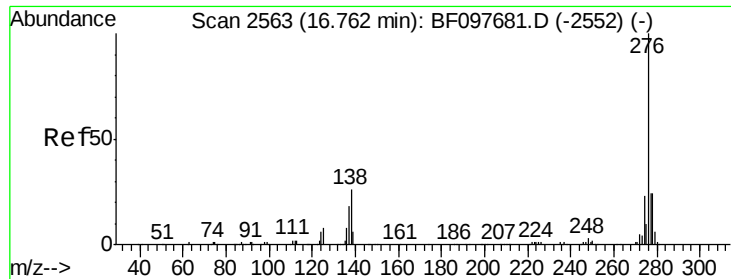
mohammad
9/5/2017 4:57:09 PM



#82
Chrysene
Concen: 26.354 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.9	37.3
229	21.5	15.8	23.6





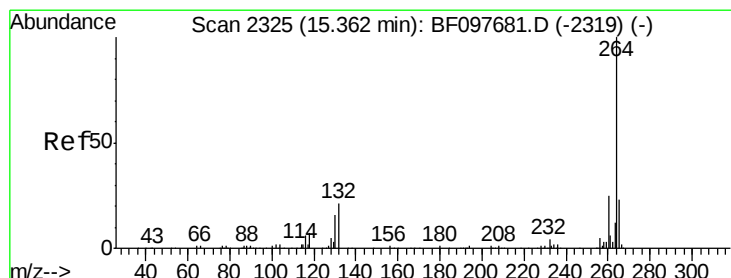
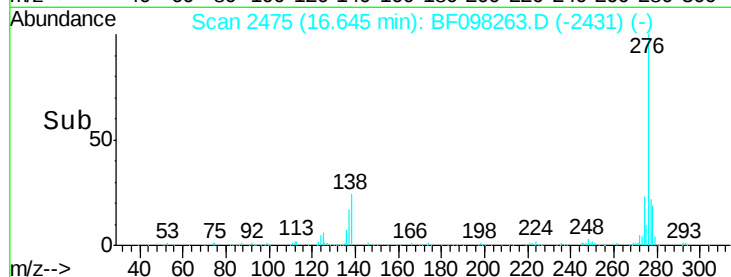
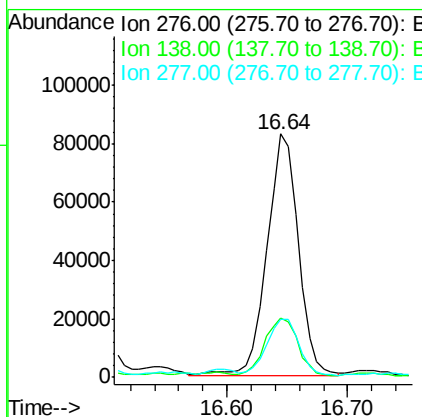
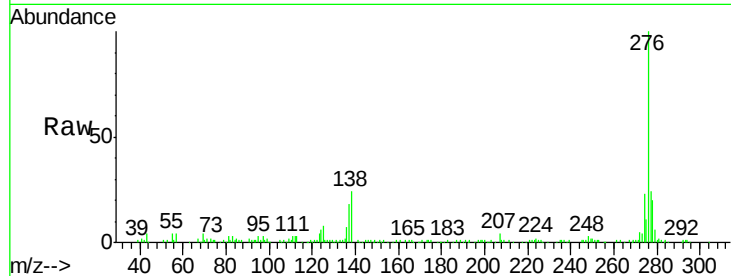
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.829 ng
 RT: 16.64 min Scan# 2475
 Delta R.T. -0.04 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.2	27.8	41.6#
277	23.6	20.2	30.4

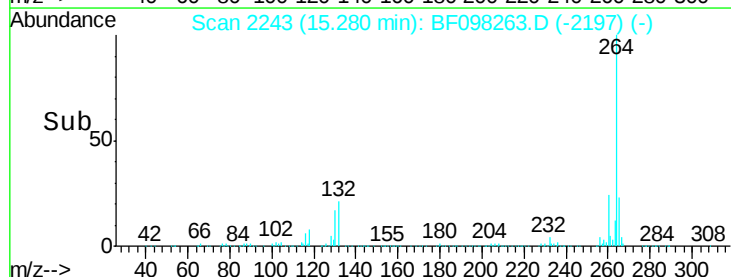
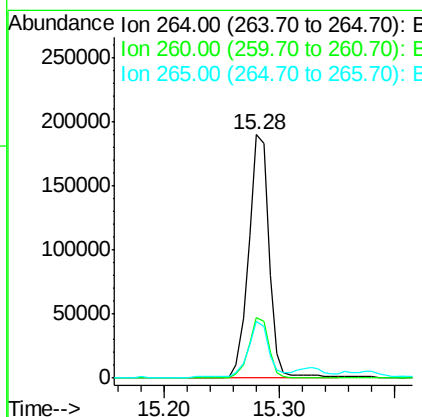
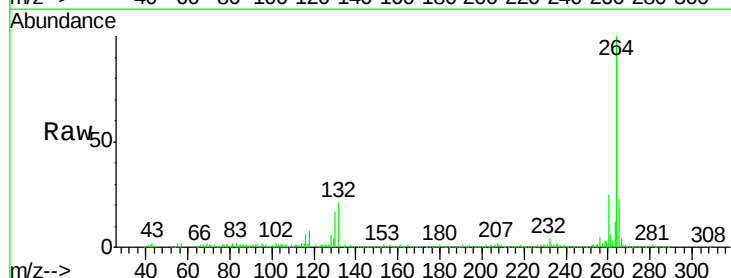
Manual Integrations
 APPROVED

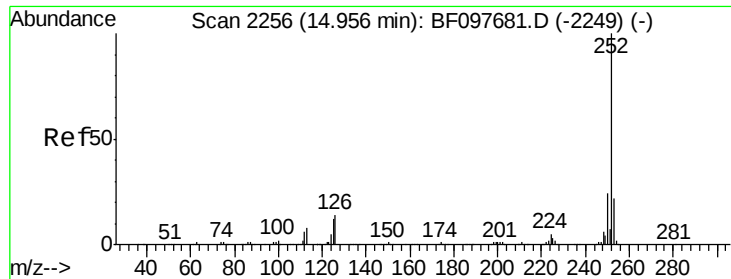
mohammad
 9/5/2017 4:57:09 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.28 min Scan# 2243
 Delta R.T. -0.03 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	23.1	17.2	25.8





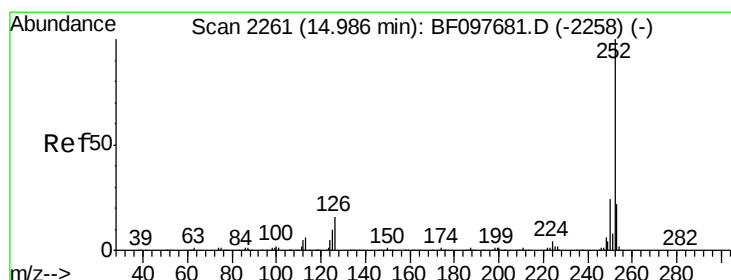
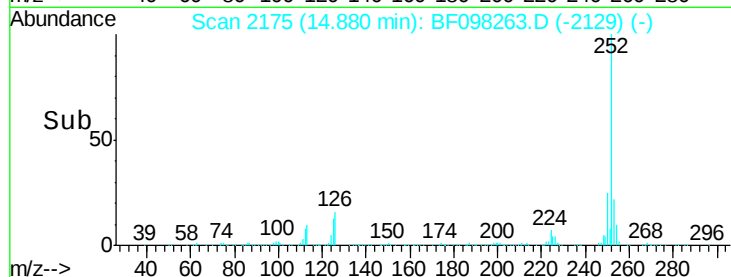
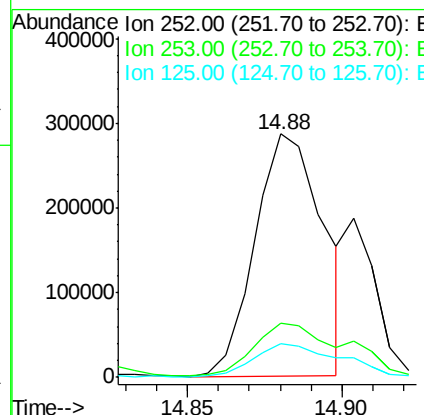
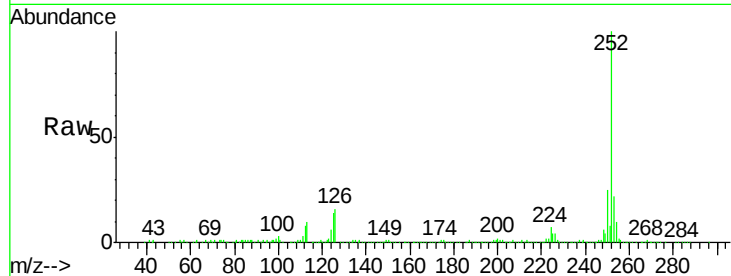
#87
Benzo(b)fluoranthene
Concen: 29.721 ng m
RT: 14.88 min Scan# 2175
Delta R.T. -0.03 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	13.8	9.8	14.8

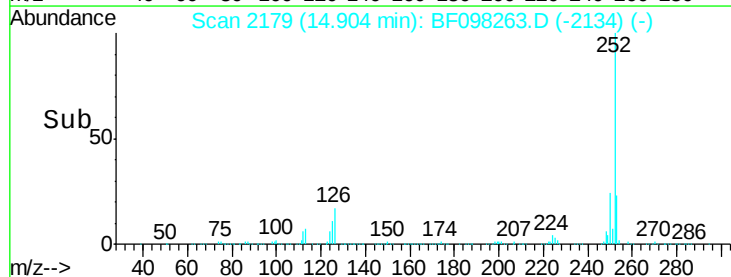
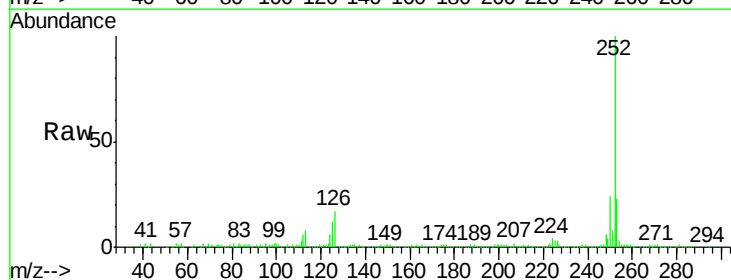
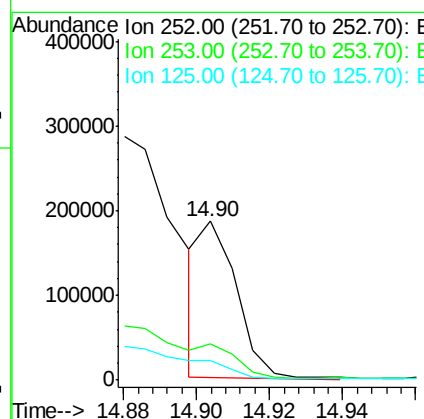
Manual Integrations
APPROVED

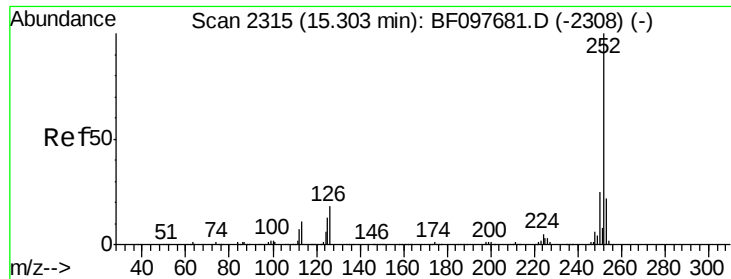
mohammad
9/5/2017 4:57:09 PM



#88
Benzo(k)fluoranthene
Concen: 9.137 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	12.1	13.1	19.7#





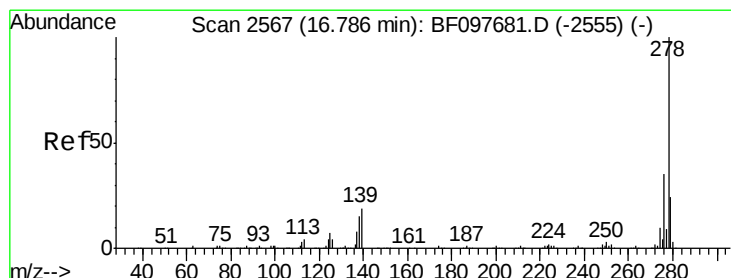
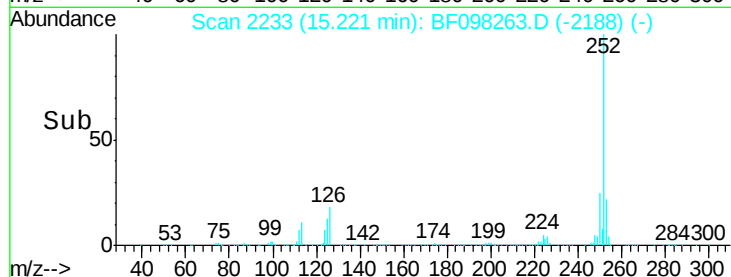
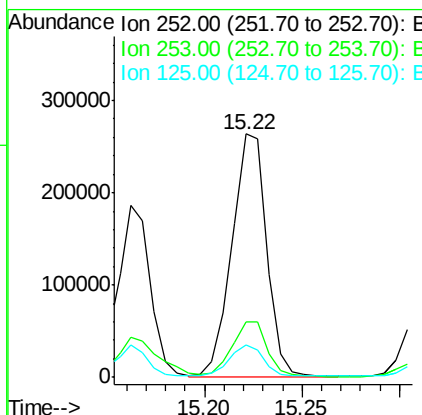
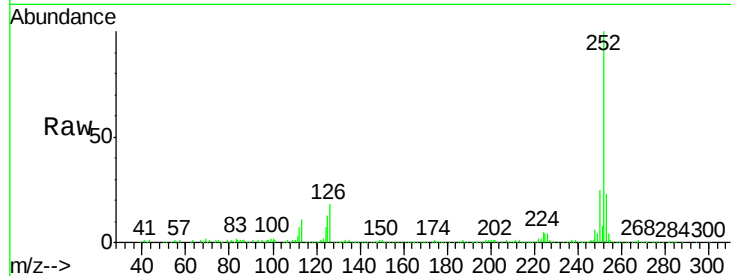
#89
Benzo(a)pyrene
Concen: 24.790 ng
RT: 15.22 min Scan# 2233
Delta R.T. -0.04 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Instrument :
BNA_F
ClientSampleId :
TEC-B2-COMP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	13.4	11.0	16.4

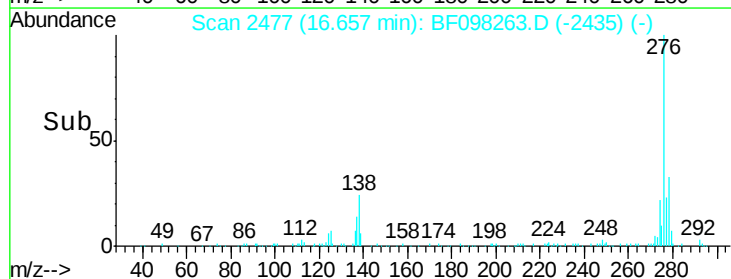
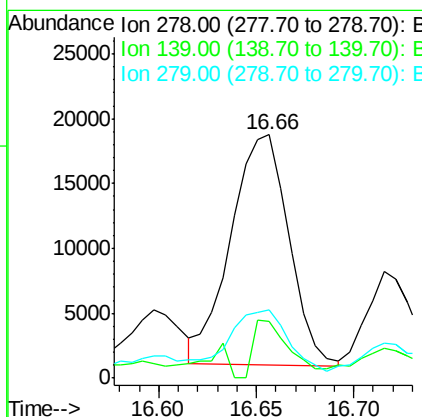
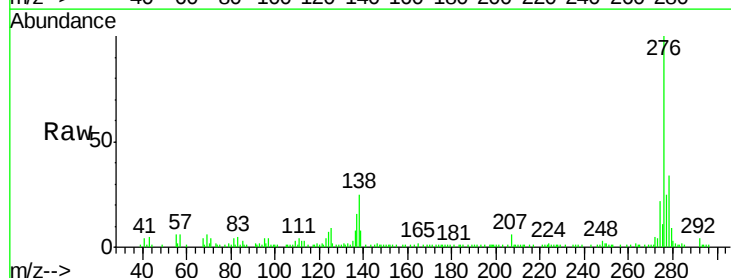
Manual Integrations
APPROVED

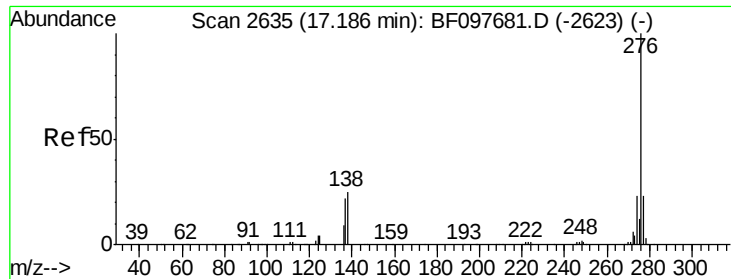
mohammad
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#90
Dibenzo(a,h)anthracene
Concen: 3.440 ng
RT: 16.66 min Scan# 2477
Delta R.T. -0.05 min
Lab File: BF098263.D
Acq: 2 Sep 2017 23:20

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.1	16.6	24.8
279	28.0	19.3	28.9





#91
 Benzo(g,h,i)perylene
 Concen: 12.378 ng
 RT: 17.06 min Scan# 2545
 Delta R.T. -0.05 min
 Lab File: BF098263.D
 Acq: 2 Sep 2017 23:20

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B2-COMP

Tgt Ion:	276	Resp:	137579
Ion Ratio	Lower	Upper	
276	100		
277	25.7	18.6	28.0
138	28.4	25.4	38.0

Manual Integrations
 APPROVED

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