

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021717\
 Data File : BF093020.D
 Acq On : 17 Feb 2017 19:42
 Operator : SJ/MA
 Sample : I1878-03
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B1-2

Manual Integrations
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 2/20/2017 12:59:55 PM

Quant Time: Feb 20 00:13:49 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	173953	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	695200	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	371608	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	527867	20.00	ng	0.00
75) Chrysene-d12	14.01	240	320890	20.00	ng	-0.01
86) Perylene-d12	15.45	264	310286	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	1272847	125.54	ng	0.01
7) Phenol-d6	6.50	99	1627823	124.78	ng	0.01
23) Nitrobenzene-d5	7.42	82	1088012	87.15	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	287283	106.89	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	1697314	82.75	ng	0.00
78) Terphenyl-d14	12.97	244	1169933	85.67	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.40	77	22567	2.41	ng	93
10) Phenol	6.51	94	155607	10.19	ng	83
20) 3+4-Methylphenols	7.28	107	41906	3.65	ng	# 64
31) Naphthalene	8.16	128	192581	5.46	ng	98
49) Dimethylphthalate	9.61	163	406033	16.22	ng	98
70) Phenanthrene	11.40	178	214832	7.10	ng	96
71) Anthracene	11.45	178	87592	2.88	ng	98
72) Carbazole	11.61	167	60341	2.08	ng	98
73) Di-n-butylphthalate	11.94	149	293533	9.35	ng	# 97
74) Fluoranthene	12.59	202	467270	14.98	ng	97
77) Pyrene	12.82	202	636817	26.52	ng	99
80) Benzo(a)anthracene	14.01	228	283420	14.44	ng	96
82) Chrysene	14.04	228	296981	16.16	ng	98
85) Indeno(1,2,3-cd)pyrene	16.84	276	125172	8.79	ng	96
87) Benzo(b)fluoranthene	15.04	252	401042m	19.64	ng	
88) Benzo(k)fluoranthene	15.06	252	132990m	7.54	ng	
89) Benzo(a)pyrene	15.38	252	194574	11.01	ng	# 94
90) Dibenzo(a,h)anthracene	16.85	278	32073m	2.25	ng	
91) Benzo(g,h,i)perylene	17.28	276	118406	8.21	ng	# 91

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

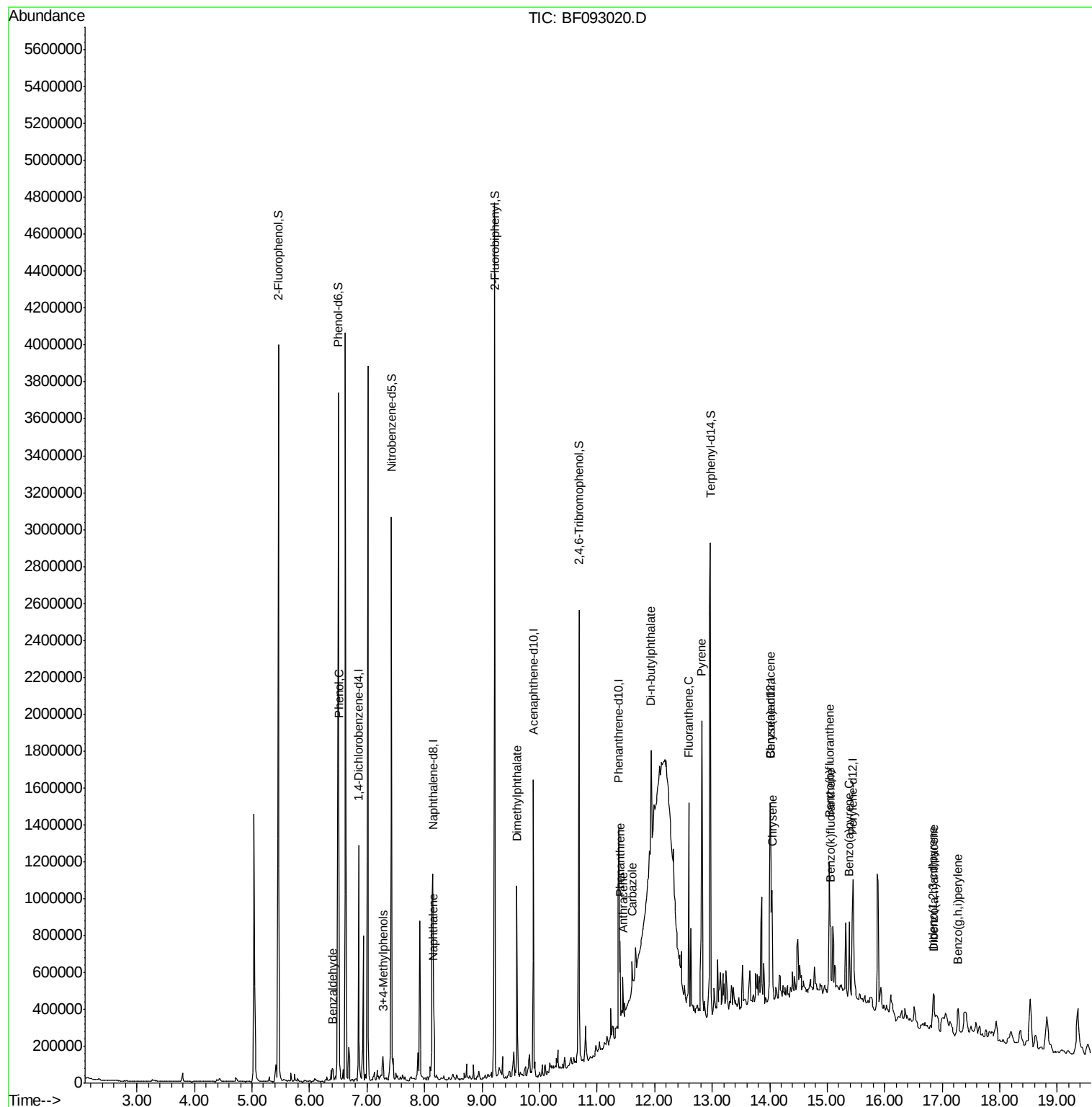
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021717\
Data File : BF093020.D
Acq On : 17 Feb 2017 19:42
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Sample : I1878-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

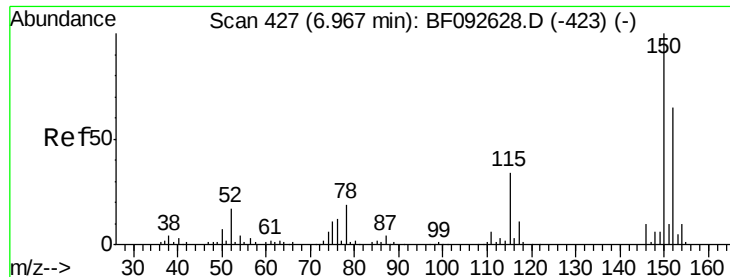
Instrument :
BNA_F
ClientSampleId :
B1-2

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#1

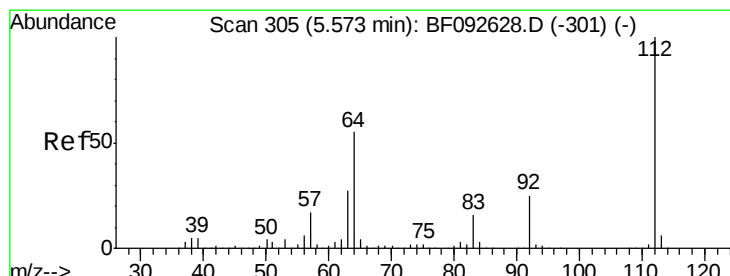
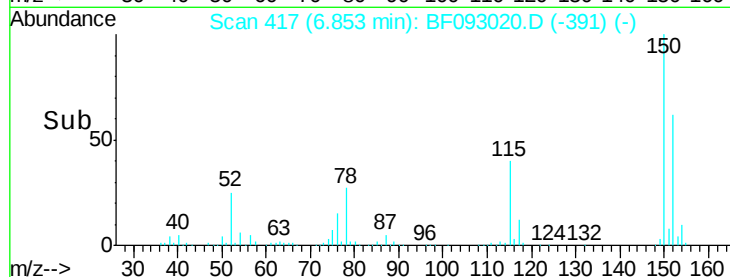
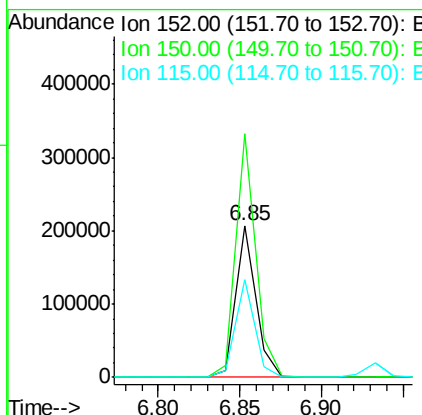
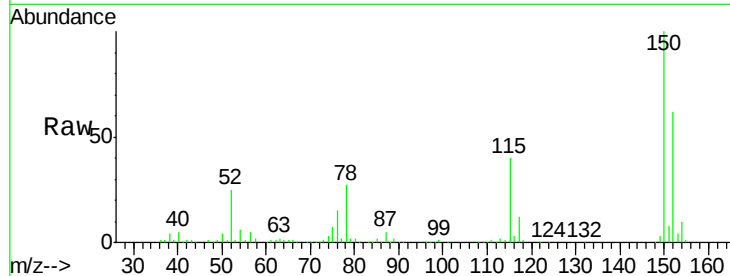
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 417
Delta R.T. -0.00 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Instrument :
BNA_F
ClientSampled :
B1-2

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.3	124.9	187.3
115	63.9	46.0	69.0

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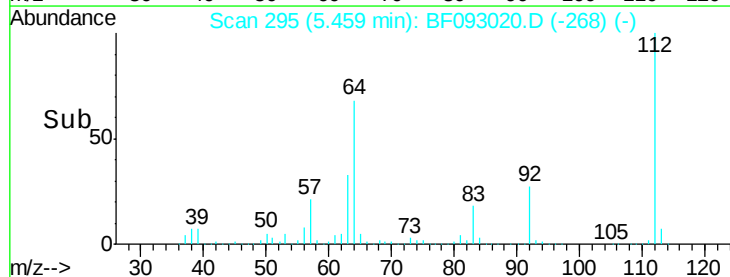
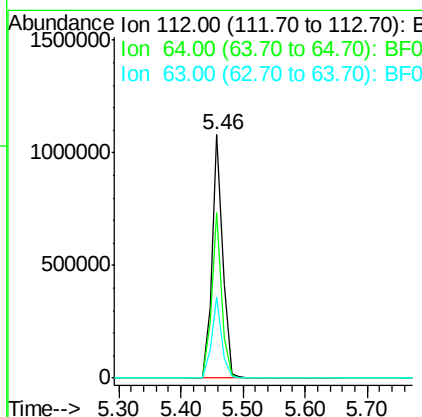
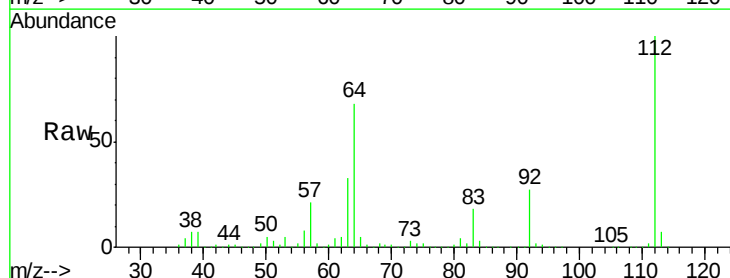
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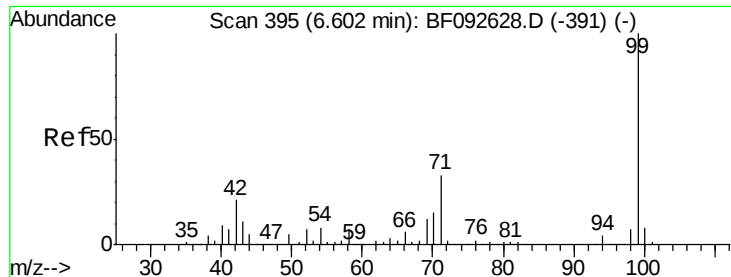


#5

2-Fluorophenol
Concen: 125.54 ng
RT: 5.46 min Scan# 295
Delta R.T. 0.01 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.9	46.1	69.1
63	33.5	23.8	35.6





#7

Phenol-d6

Concen: 124.78 ng

RT: 6.50 min Scan# 386

Delta R.T. 0.01 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Instrument :

BNA_F

ClientSampleId :

B1-2

Tgt Ion: 99 Resp: 1627823

Ion Ratio Lower Upper

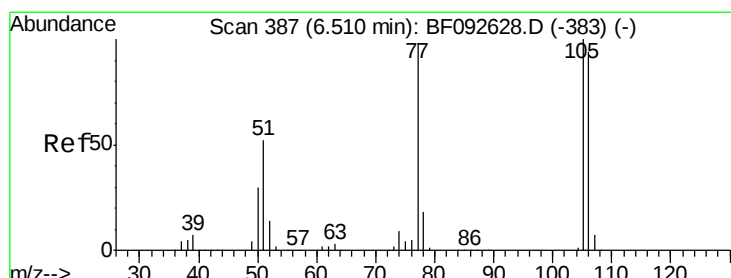
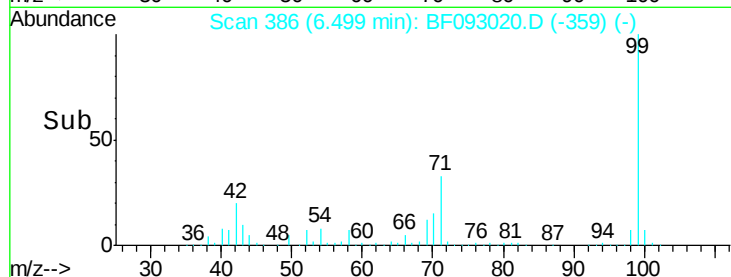
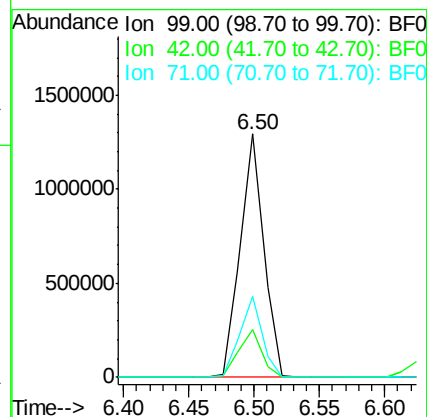
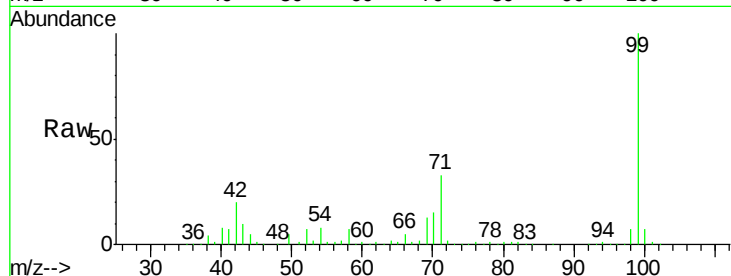
99 100

42 19.9 15.6 23.4

71 33.4 27.5 41.3

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#9

Benzaldehyde

Concen: 2.41 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

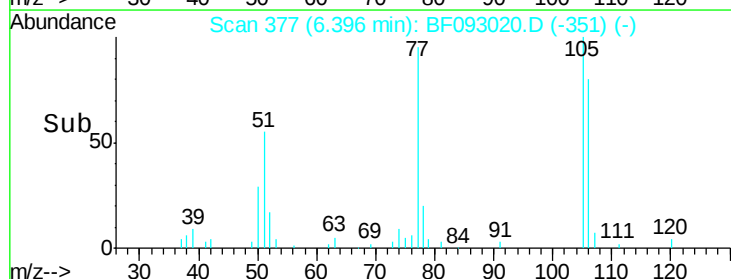
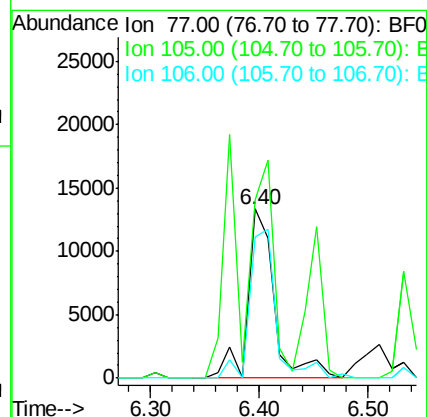
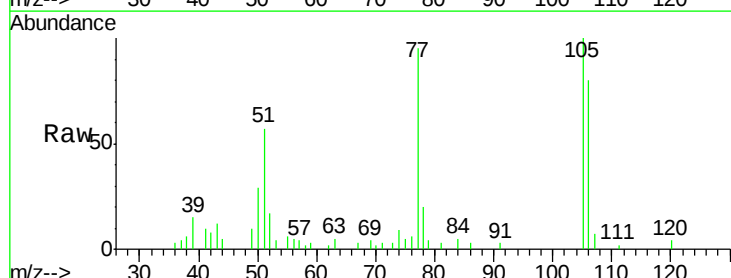
Tgt Ion: 77 Resp: 22567

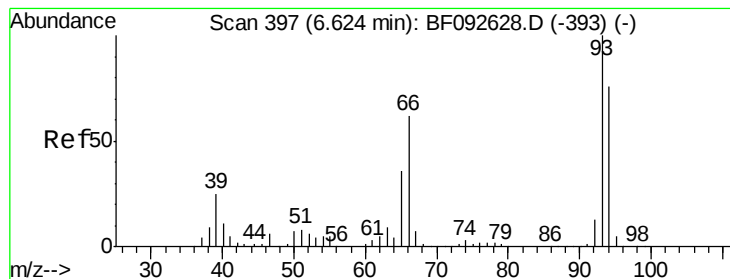
Ion Ratio Lower Upper

77 100

105 105.3 83.9 123.9

106 83.8 77.6 117.6





#10

Phenol

Concen: 10.19 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Instrument :

BNA_F

ClientSampled :

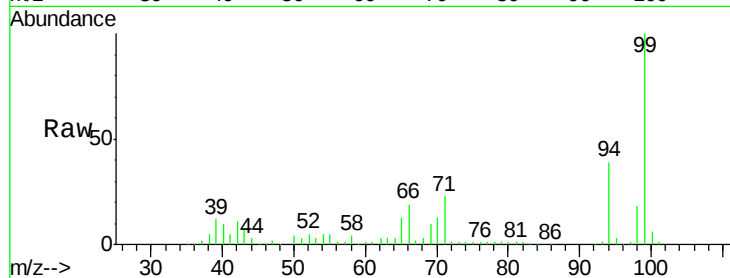
B1-2

Tgt Ion: 94 Resp: 155607

Ion	Ratio	Lower	Upper
94	100		
65	33.4	21.4	61.4
66	49.1	44.0	84.0

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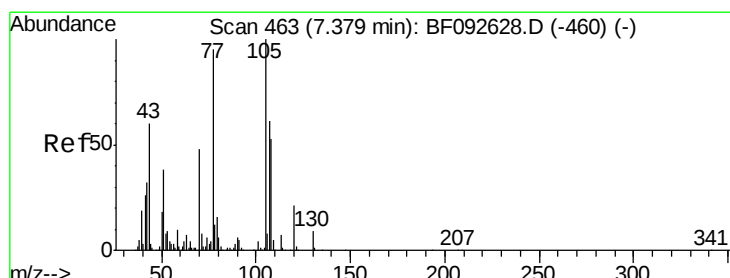
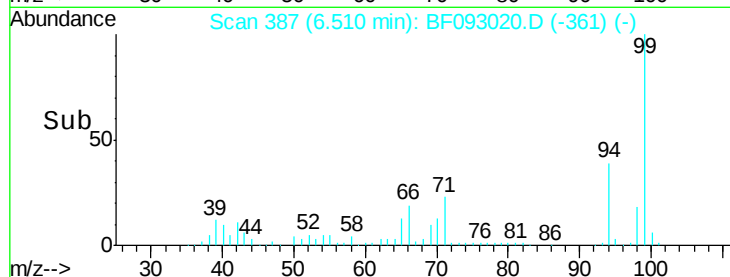
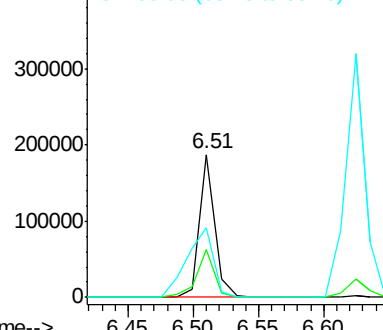


Abundance

Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#20

3+4-Methylphenols

Concen: 3.65 ng

RT: 7.28 min Scan# 454

Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Tgt Ion: 107 Resp: 41906

Ion	Ratio	Lower	Upper
107	100		
108	80.8	73.0	113.0
77	28.4	71.3	111.3
79	20.7	11.1	51.1

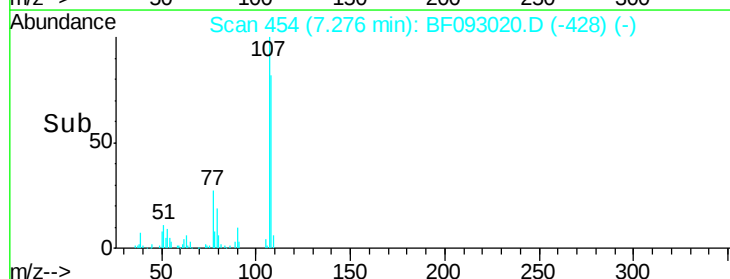
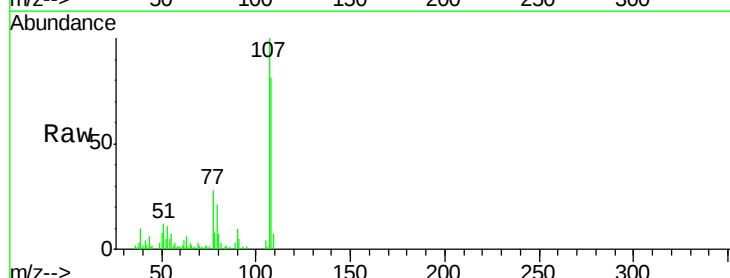
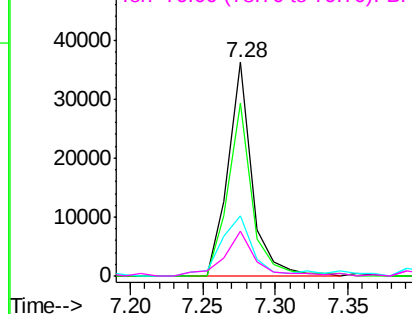
Abundance

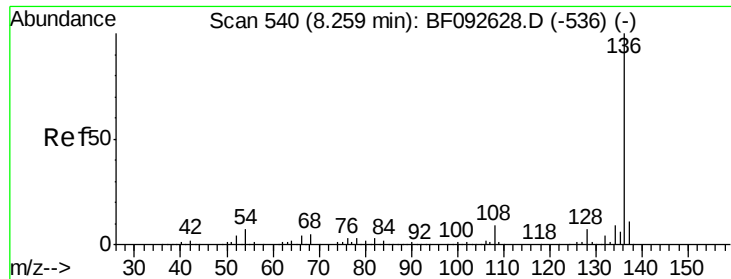
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Instrument :

BNA_F

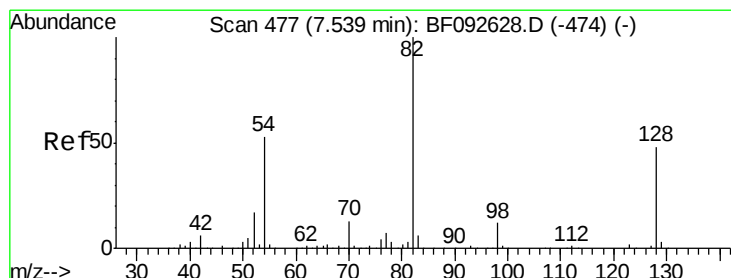
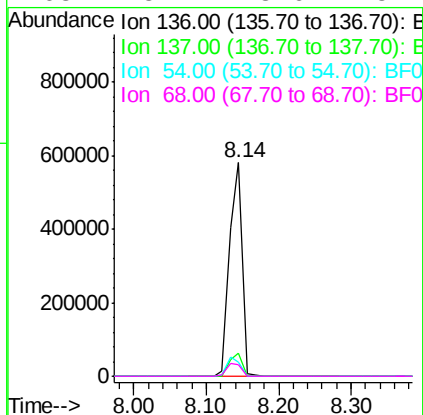
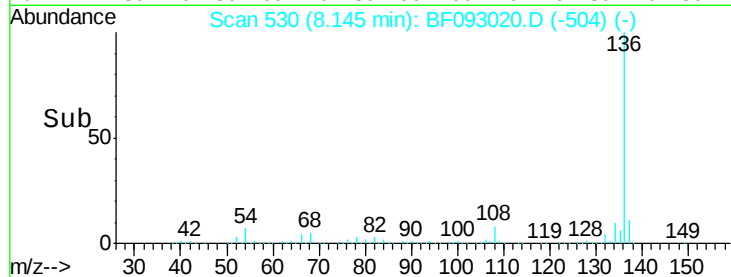
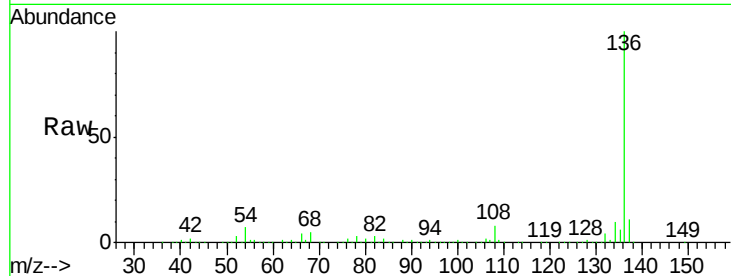
ClientSampleId :

B1-2

Tgt Ion:	136	Resp:	695200
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.4	12.6
54	6.6	4.5	6.7
68	5.2	3.6	5.4

Manual Integrations
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#23

Nitrobenzene-d5

Concen: 87.15 ng

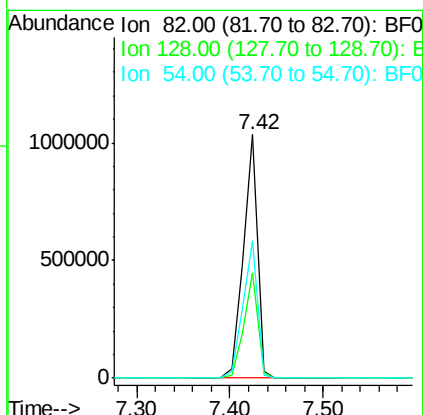
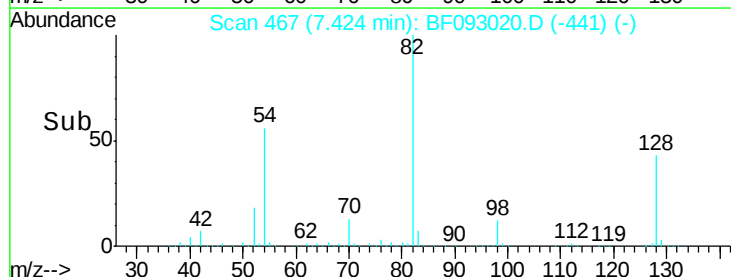
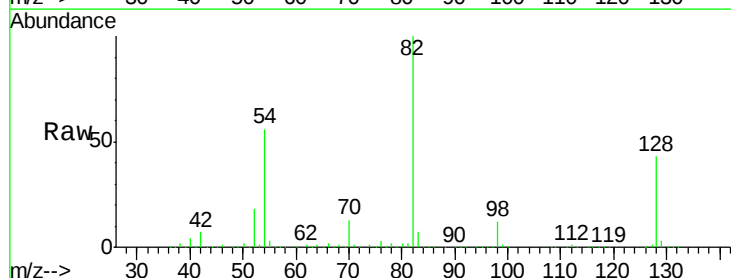
RT: 7.42 min Scan# 467

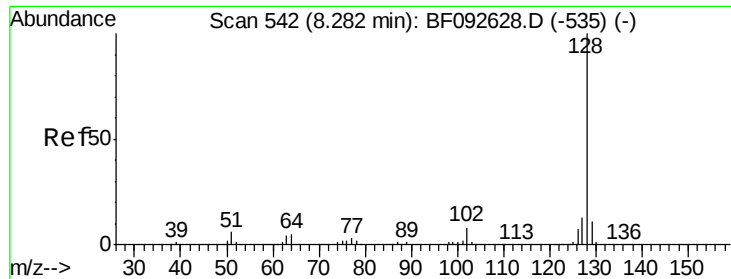
Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Tgt Ion:	82	Resp:	1088012
Ion Ratio	Lower	Upper	
82	100		
128	43.3	34.6	52.0
54	56.4	39.5	59.3





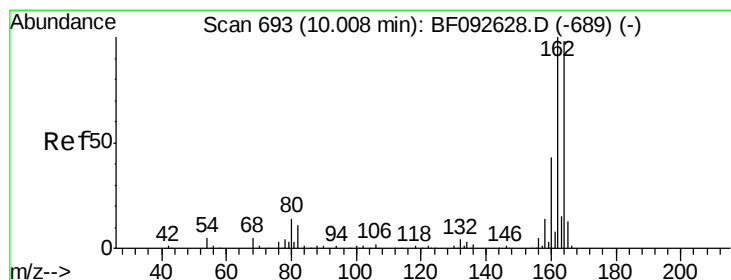
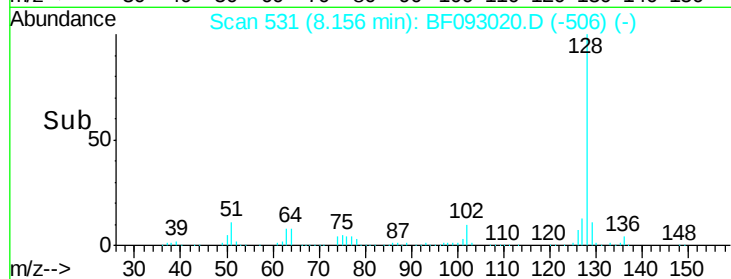
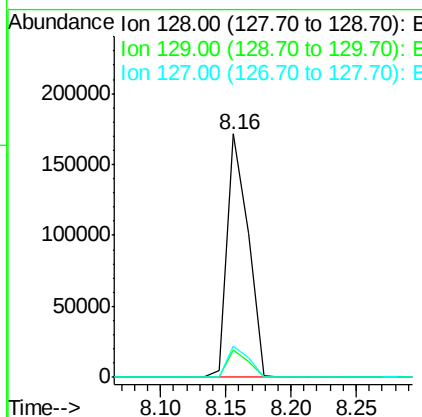
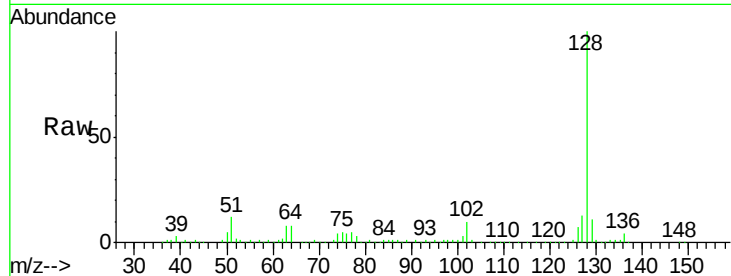
#31
Naphthalene
Concen: 5.46 ng
RT: 8.16 min Scan# 531
Delta R.T. -0.01 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Instrument :
BNA_F
ClientSampleId :
B1-2

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	192581		
129	11.0	9.5	14.3	
127	12.8	10.8	16.2	

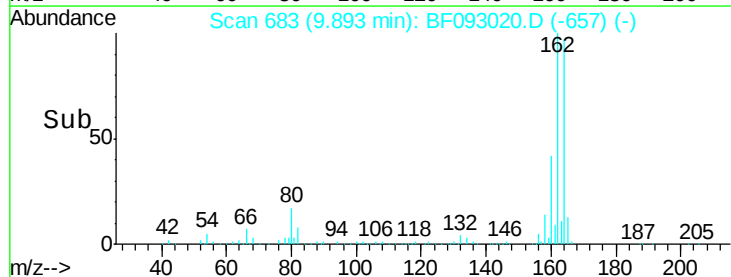
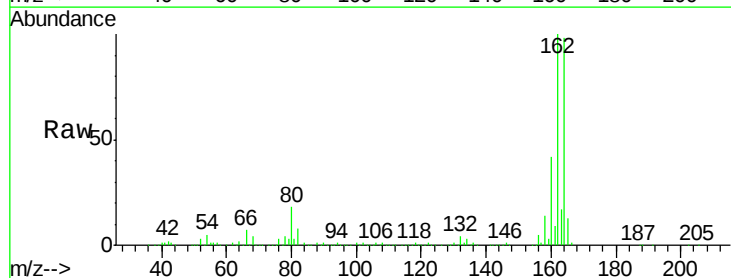
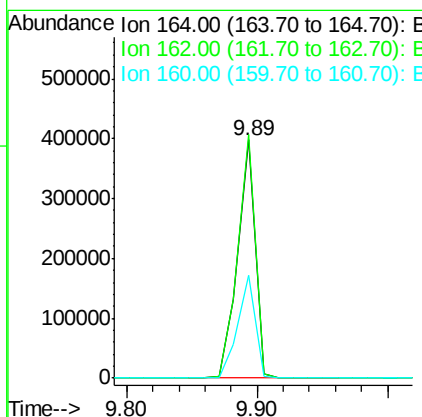
Manual Integrations
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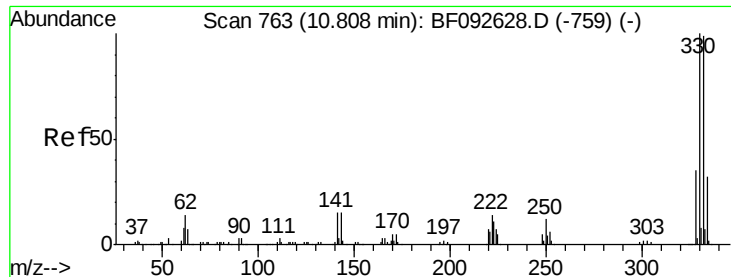
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 683
Delta R.T. -0.00 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	371608		
162	102.3	80.2	120.2	
160	43.1	36.9	55.3	





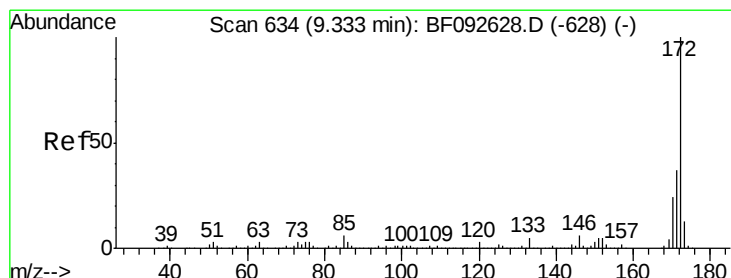
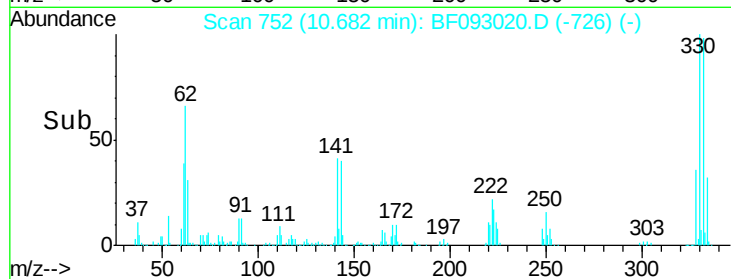
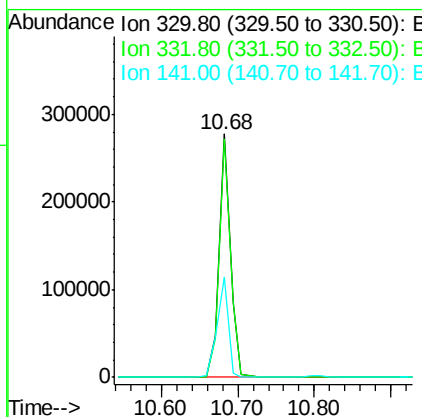
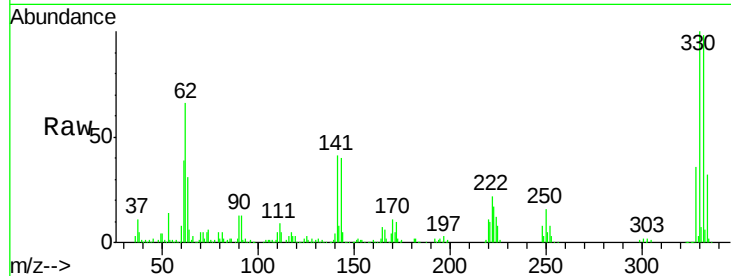
#41
 2,4,6-Tribromophenol
 Concen: 106.89 ng
 RT: 10.68 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Instrument :
 BNA_F
 ClientSampleId :
 B1-2

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	287283		
332	97.5	77.4	116.2	
141	41.2	34.1	51.1	

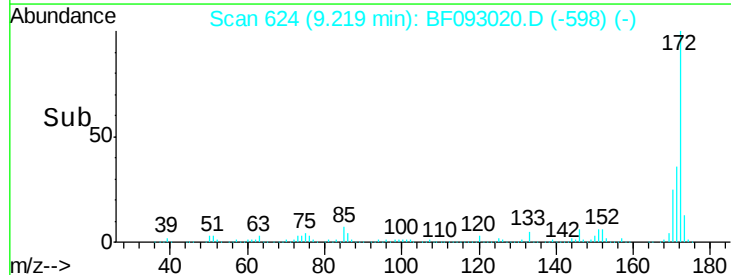
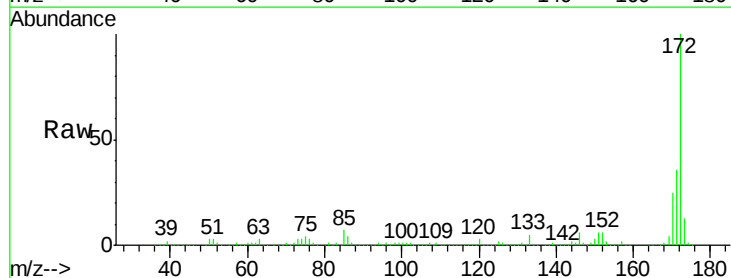
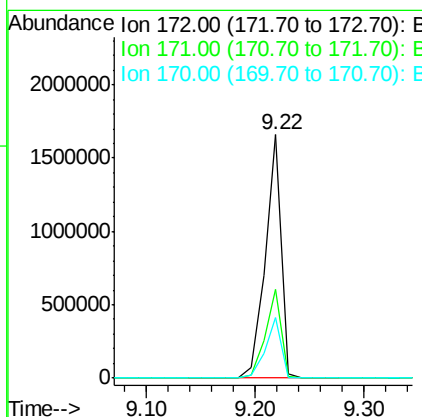
Manual Integrations
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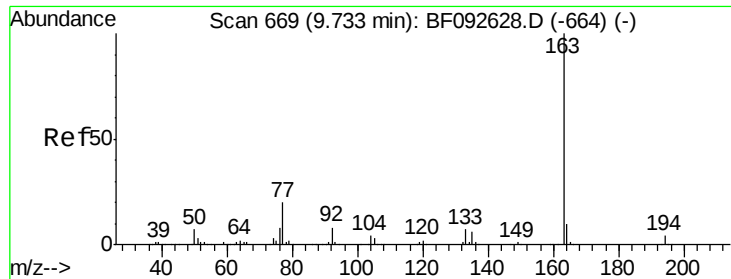
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#44
 2-Fluorobiphenyl
 Concen: 82.75 ng
 RT: 9.22 min Scan# 624
 Delta R.T. -0.00 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1697314		
171	36.2	29.4	44.0	
170	24.7	20.2	30.4	





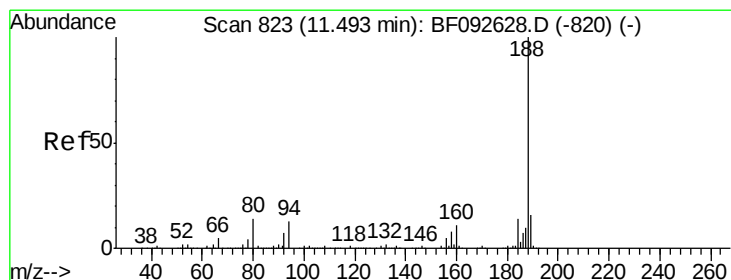
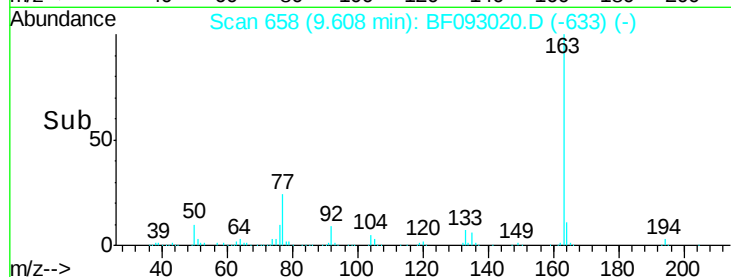
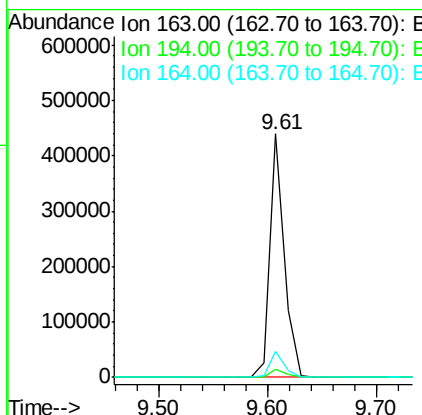
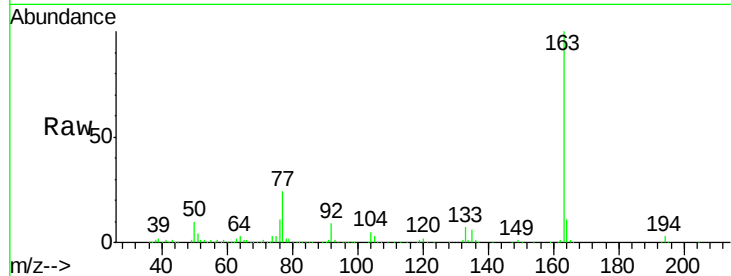
#49
Dimethylphthalate
Concen: 16.22 ng
RT: 9.61 min Scan# 658
Delta R.T. -0.01 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Instrument :
BNA_F
ClientSampled :
B1-2

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	406033		
194	3.4		3.0	4.4
164	10.7		8.0	12.0

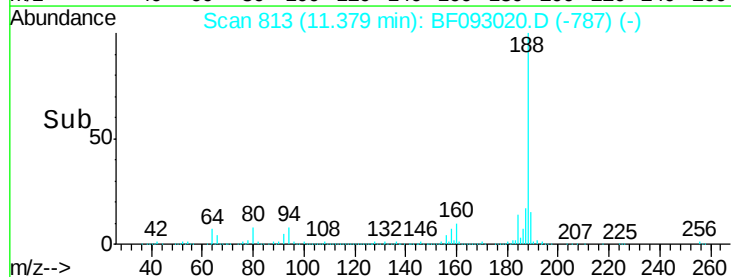
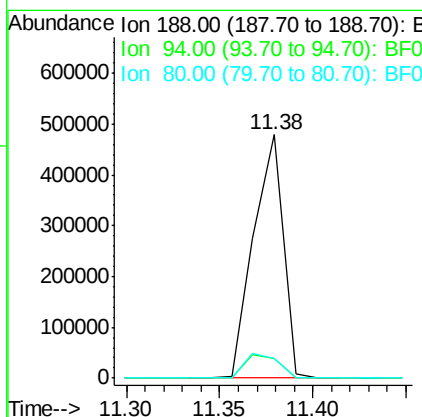
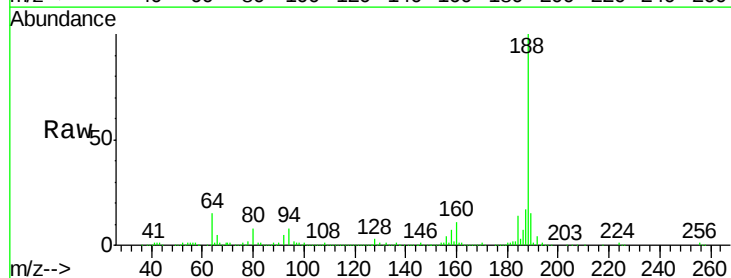
Manual Integrations
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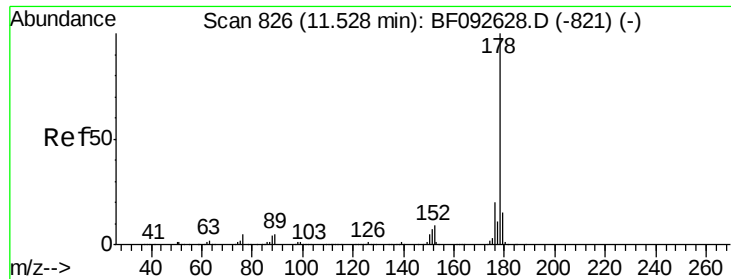
mohammad
2/20/2017 12:59:55 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.38 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	527867		
94	8.0		10.0	15.0#
80	7.9		11.2	16.8#





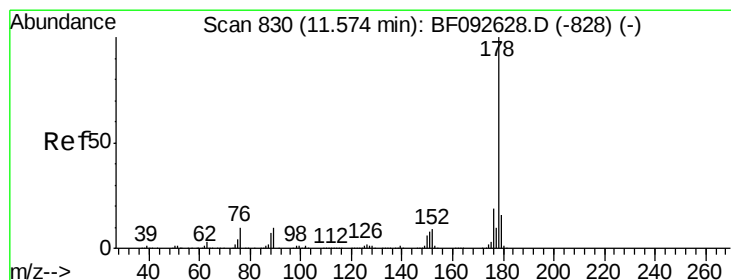
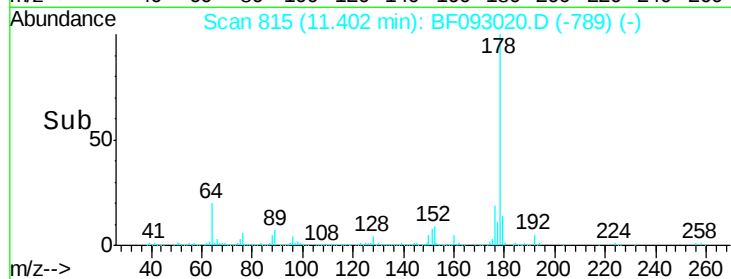
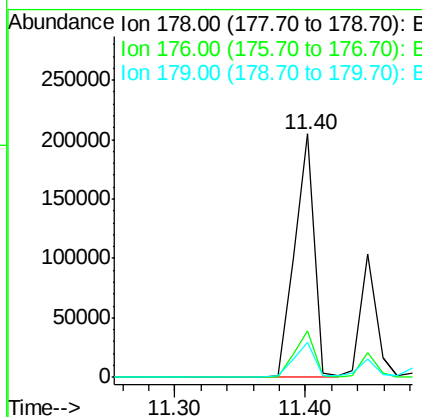
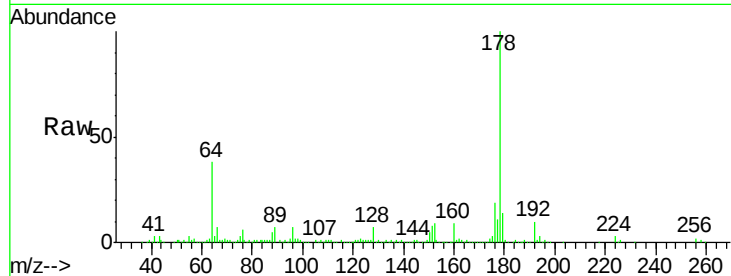
#70
Phenanthrene
Concen: 7.10 ng
RT: 11.40 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Instrument :
BNA_F
ClientSampled :
B1-2

Tgt Ion:178 Resp: 214832
Ion Ratio Lower Upper
178 100
176 19.1 16.6 25.0
179 14.4 12.8 19.2

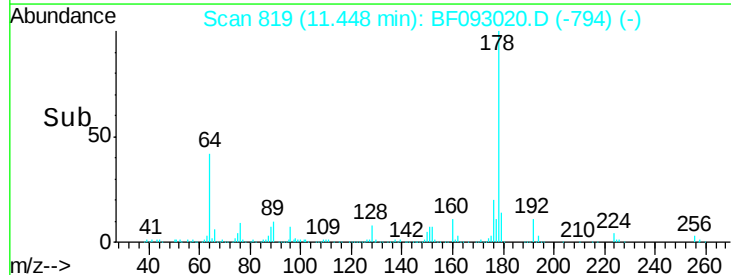
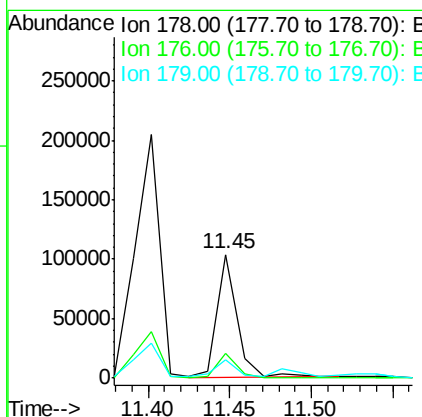
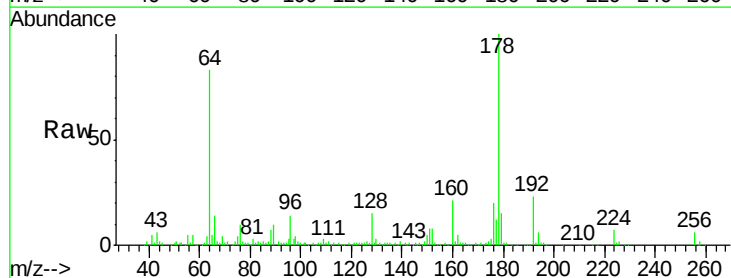
Manual Integrations
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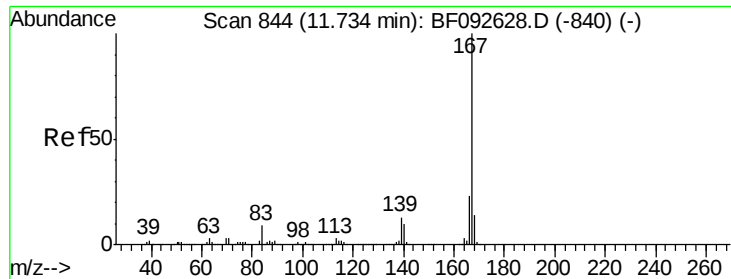
mohammad
2/20/2017 12:59:55 PM



#71
Anthracene
Concen: 2.88 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.01 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Tgt Ion:178 Resp: 87592
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 14.5 13.2 19.8





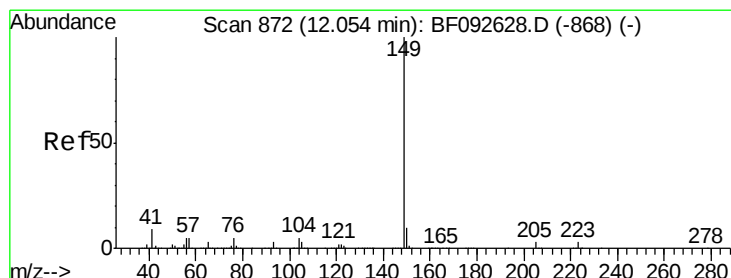
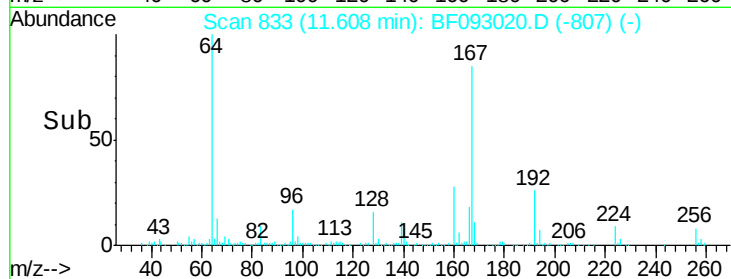
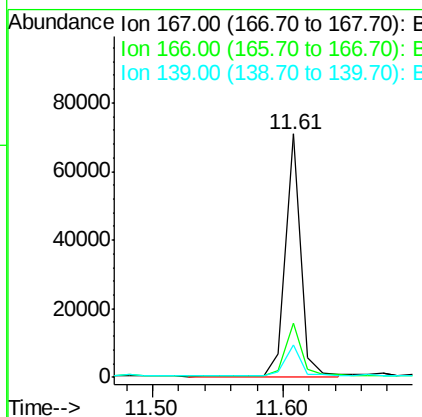
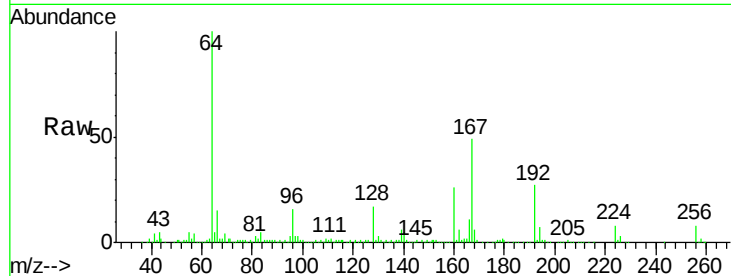
#72
 Carbazole
 Concen: 2.08 ng
 RT: 11.61 min Scan# 833
 Delta R.T. -0.00 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Instrument :
 BNA_F
 ClientSampleId :
 B1-2

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	60341		
166	22.2	18.2	27.2	
139	13.1	11.4	17.2	

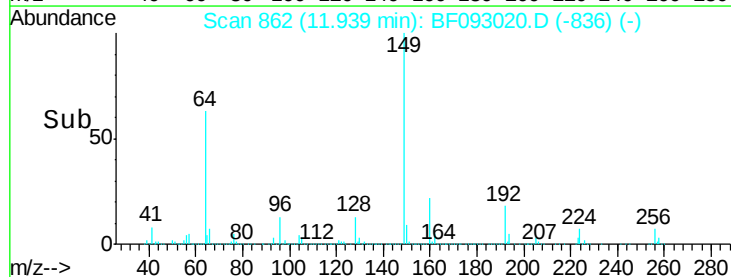
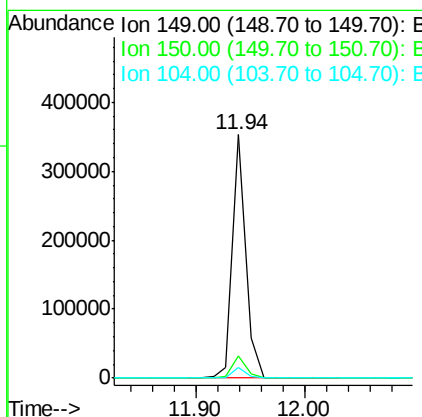
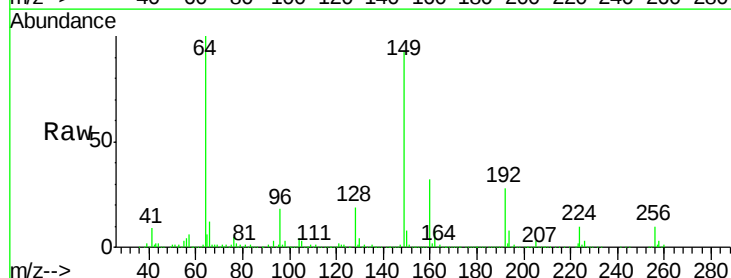
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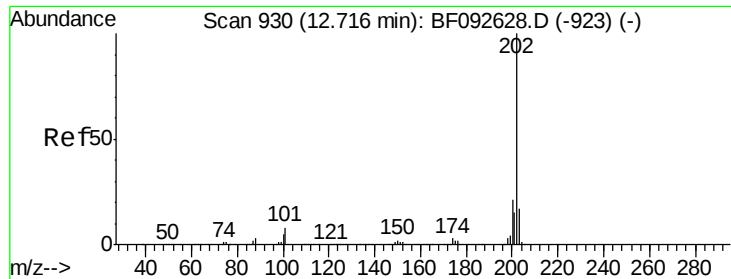
mohammad
 2/20/2017 12:59:55 PM



#73
 Di-n-butylphthalate
 Concen: 9.35 ng
 RT: 11.94 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	293533		
150	9.1	8.1	12.1	
104	4.5	4.6	7.0	





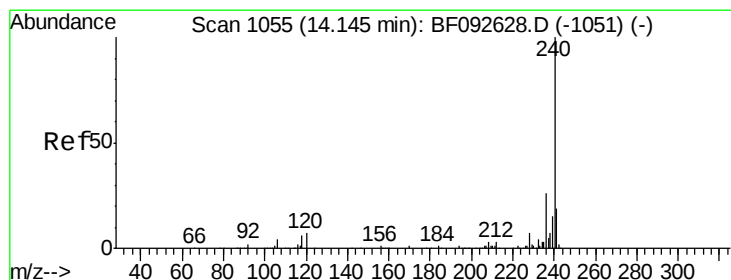
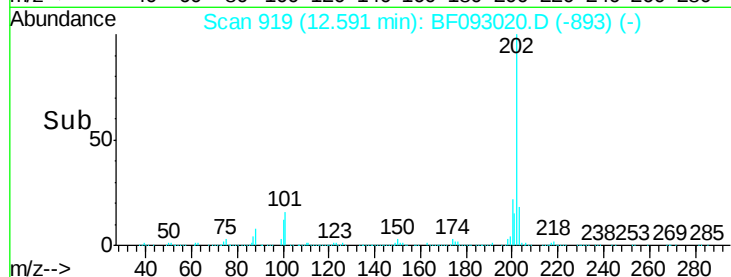
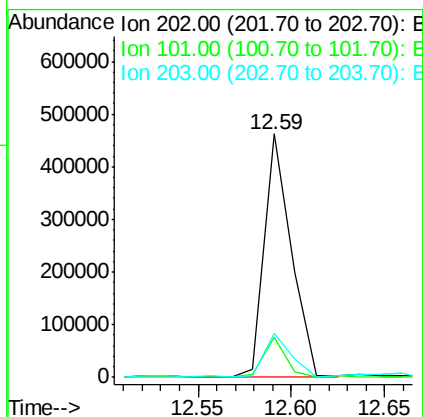
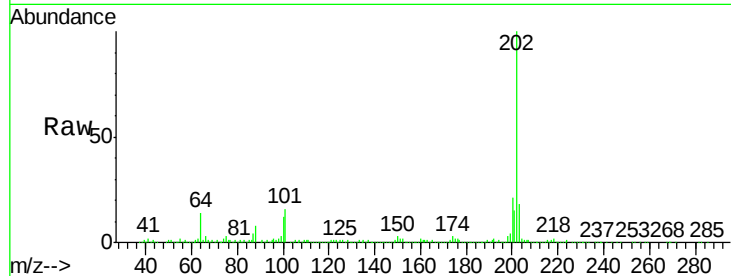
#74
 Fluoranthene
 Concen: 14.98 ng
 RT: 12.59 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Instrument :
 BNA_F
 ClientSampleId :
 B1-2

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
101	16.4	0.0	34.6
203	18.0	0.0	38.7

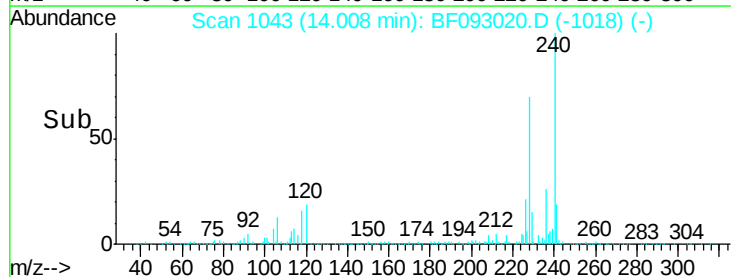
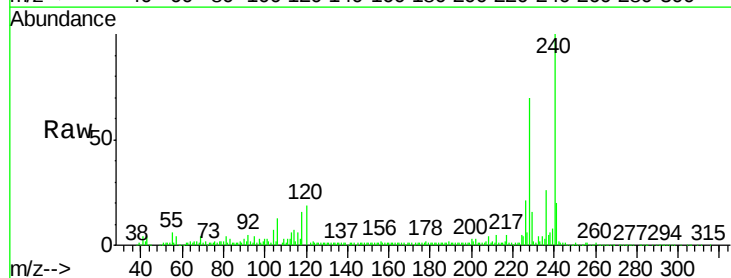
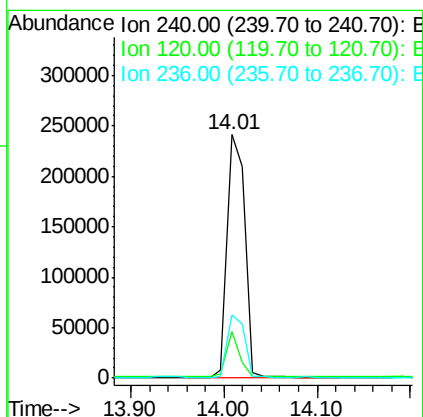
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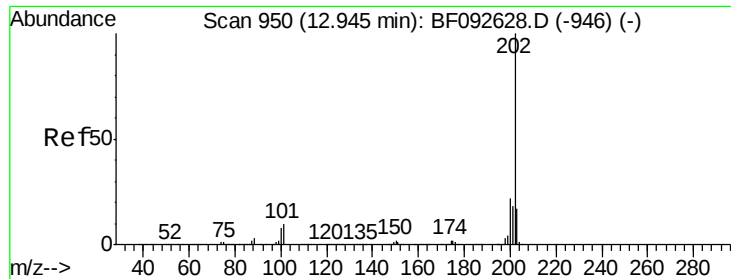
mohammad
 2/20/2017 12:59:55 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	18.9	12.9	19.3
236	26.0	20.9	31.3





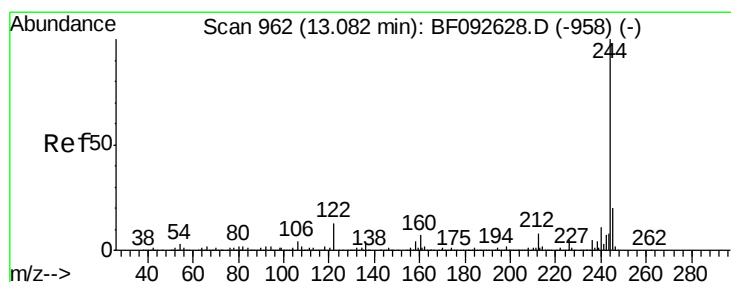
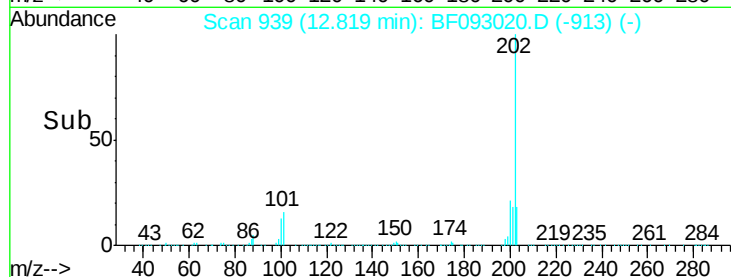
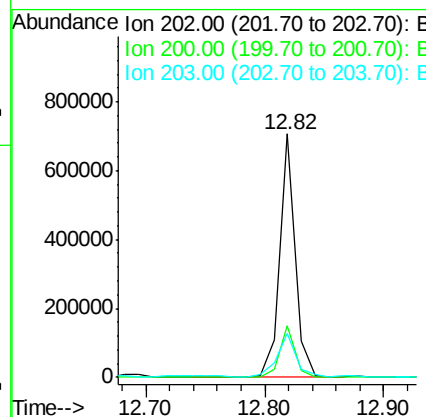
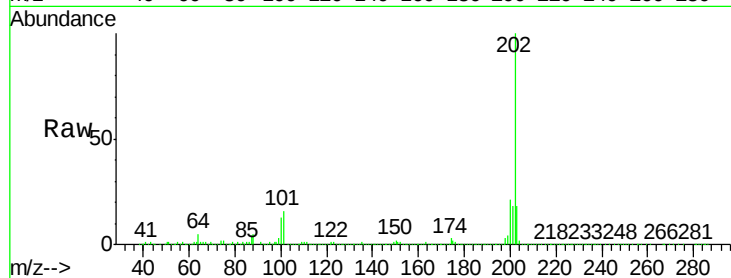
#77
Pyrene
Concen: 26.52 ng
RT: 12.82 min Scan# 939
Delta R.T. -0.00 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Instrument :
BNA_F
ClientSampleId :
B1-2

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5
203	18.0	14.7	22.1

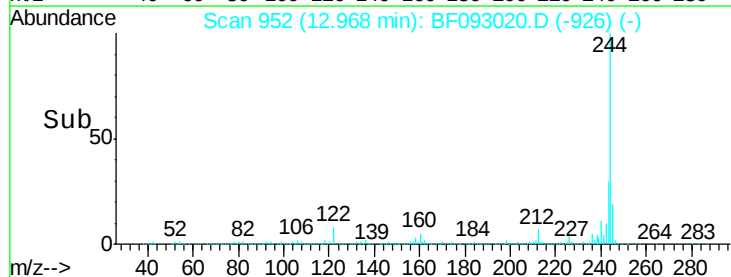
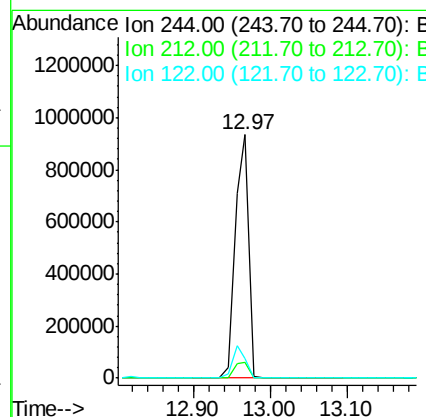
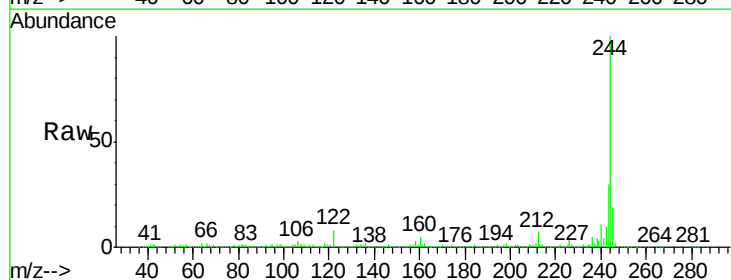
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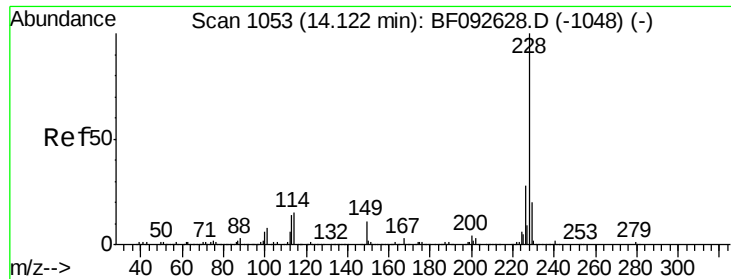
mohammad
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#78
Terphenyl-d14
Concen: 85.67 ng
RT: 12.97 min Scan# 952
Delta R.T. -0.00 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.2	9.2
122	8.1	11.4	17.2





#80

Benzo(a)anthracene

Concen: 14.44 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Instrument :

BNA_F

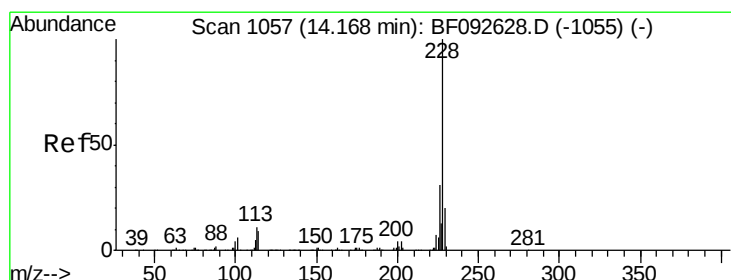
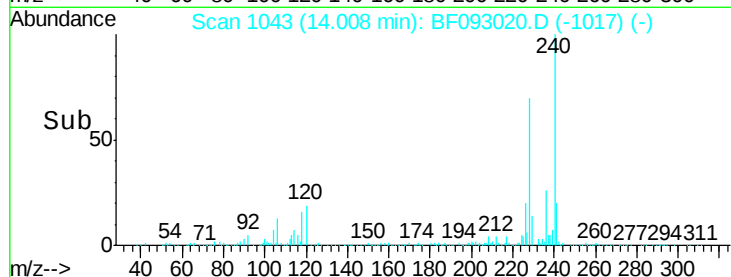
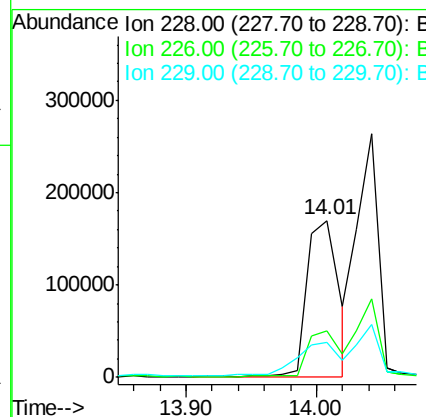
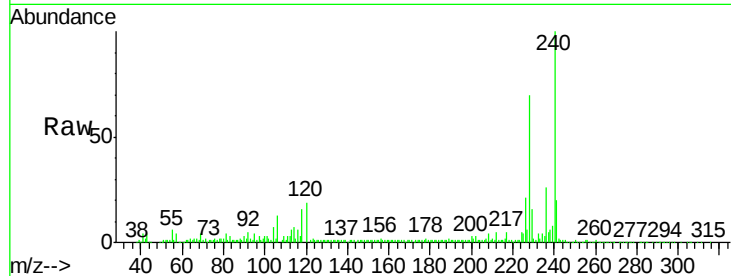
ClientSampleId :

B1-2

Tgt Ion:	228	Resp:	283420
Ion Ratio	Lower	Upper	
228	100		
226	29.9	22.4	33.6
229	22.1	16.2	24.4

Manual Integrations
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#82

Chrysene

Concen: 16.16 ng

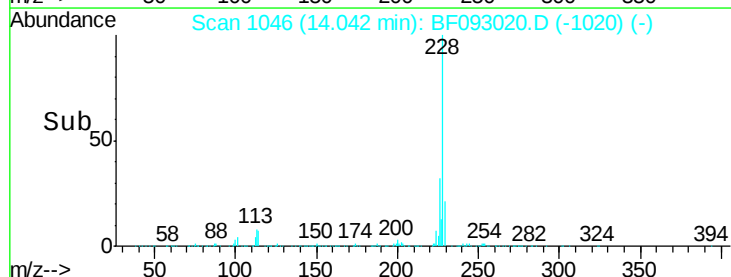
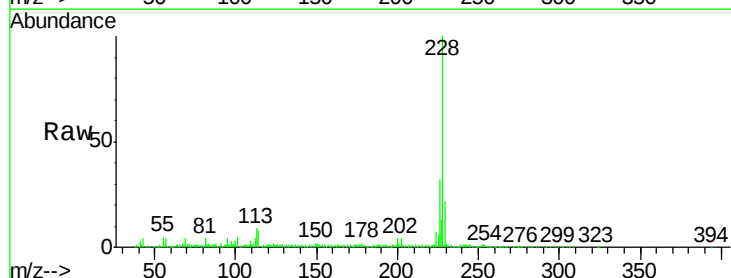
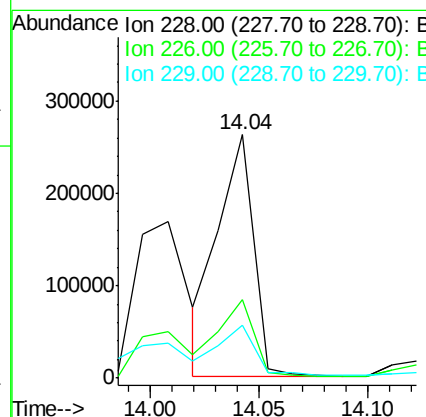
RT: 14.04 min Scan# 1046

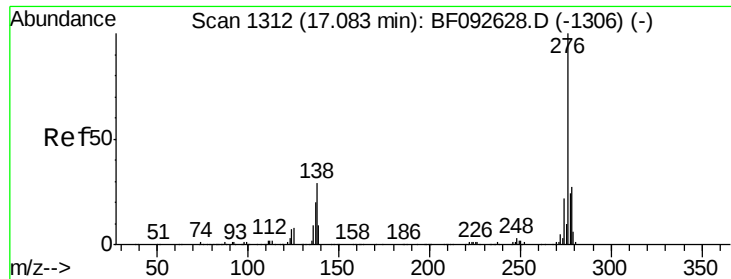
Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Tgt Ion:	228	Resp:	296981
Ion Ratio	Lower	Upper	
228	100		
226	32.1	25.4	38.0
229	21.9	16.2	24.2





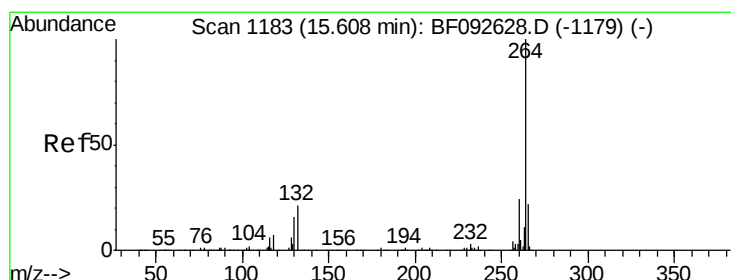
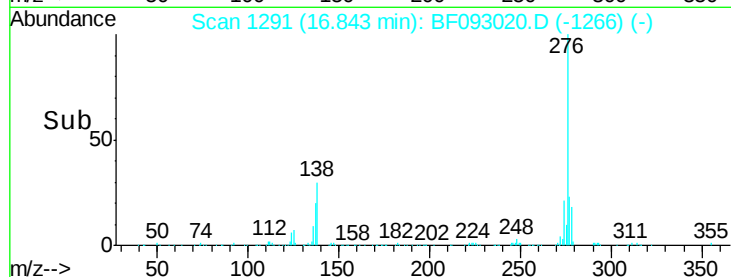
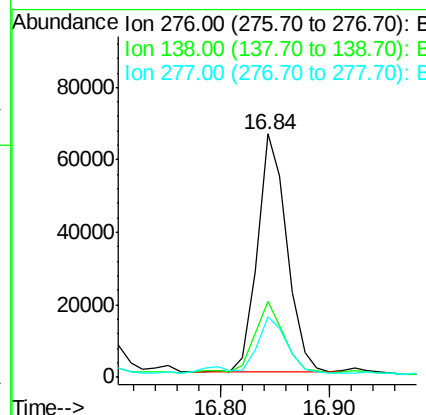
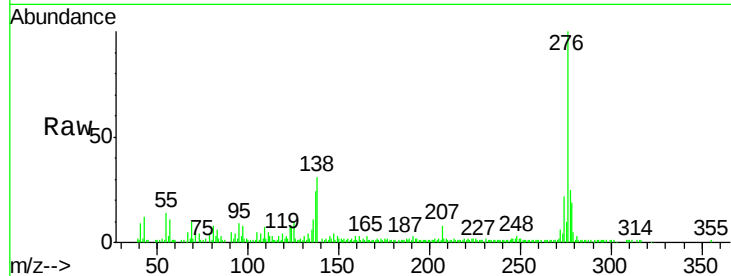
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.79 ng
 RT: 16.84 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Instrument :
 BNA_F
 ClientSampleId :
 B1-2

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.2	21.8	32.6
277	26.9	20.2	30.4

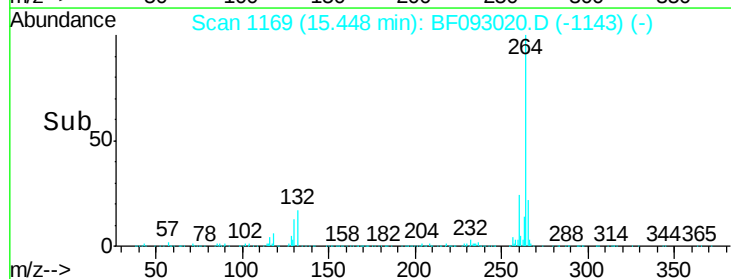
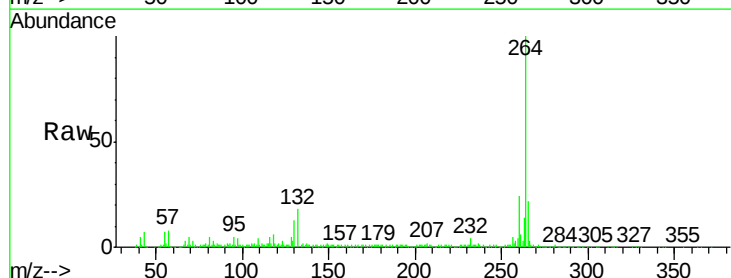
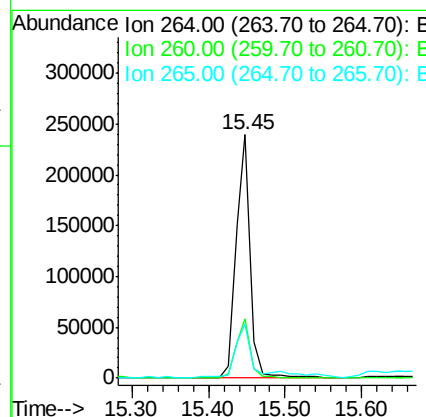
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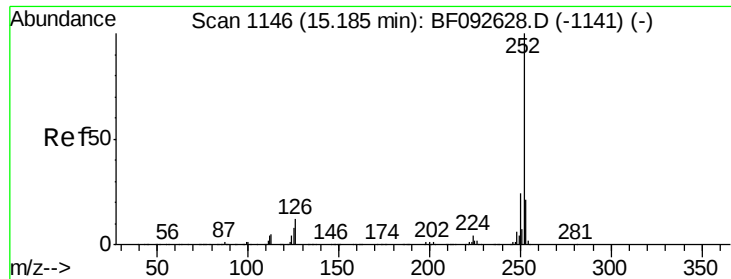
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.45 min Scan# 1169
 Delta R.T. -0.00 min
 Lab File: BF093020.D
 Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.3	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 19.64 ng m

RT: 15.04 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Instrument :

BNA_F

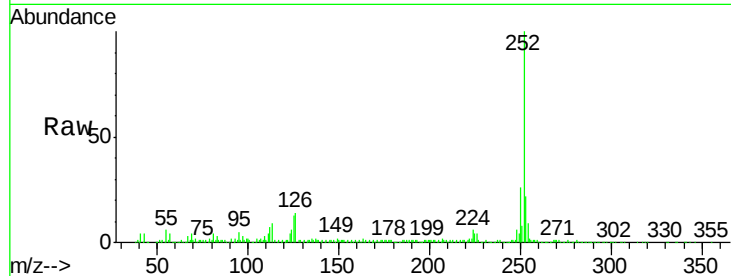
ClientSampled :

B1-2

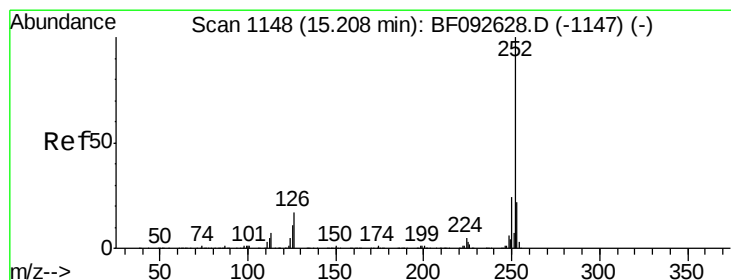
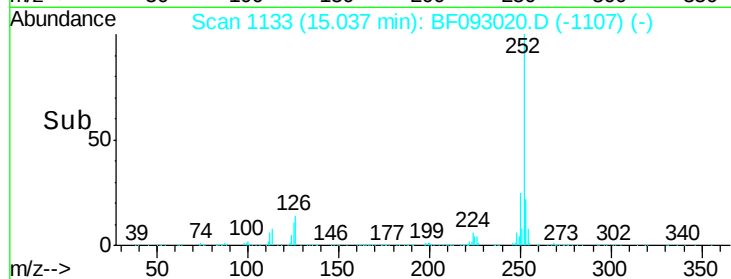
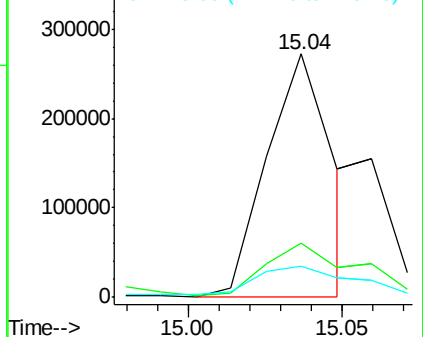
Tgt Ion:	252	Resp:	401042
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.2	27.4
125	12.6	9.8	14.6

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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: 7.54 ng m

RT: 15.06 min Scan# 1135

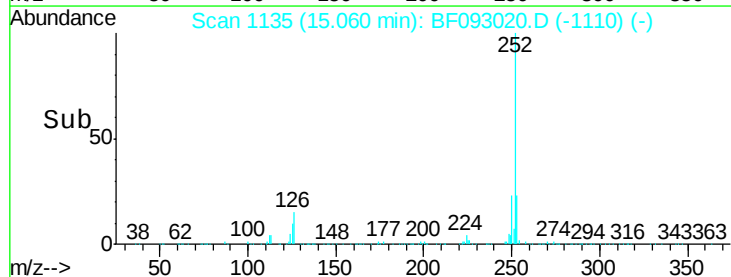
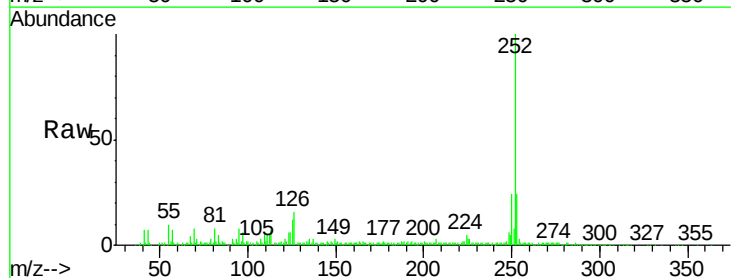
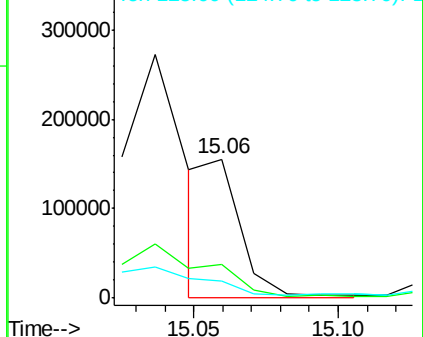
Delta R.T. -0.01 min

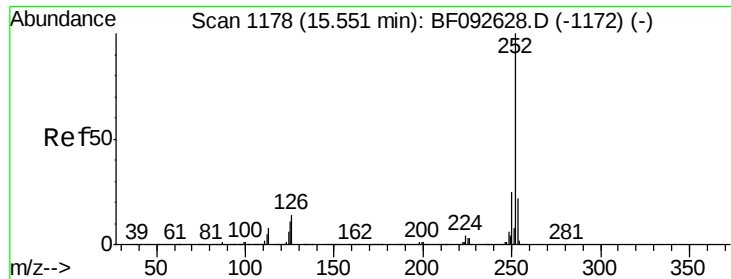
Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Tgt Ion:	252	Resp:	132990
Ion Ratio	Lower	Upper	
252	100		
253	24.3	18.5	27.7
125	12.3	8.9	13.3

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





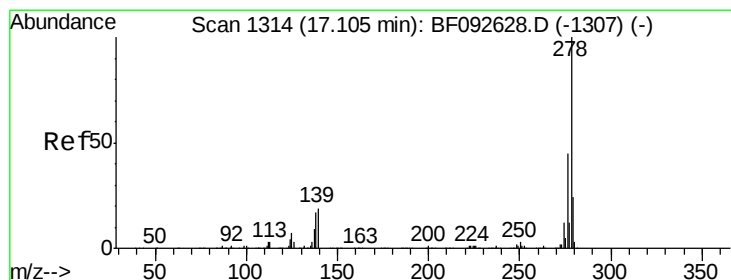
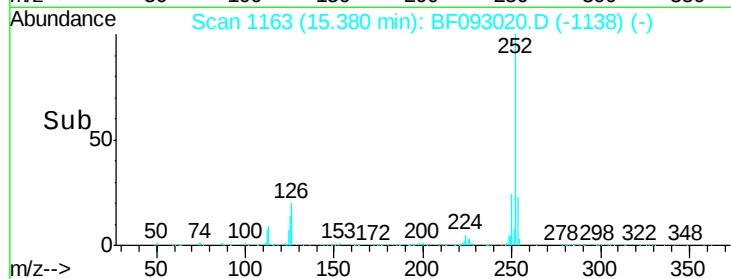
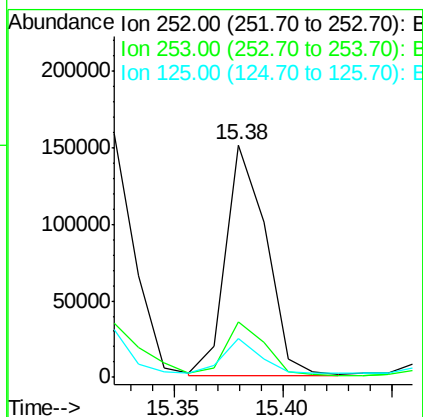
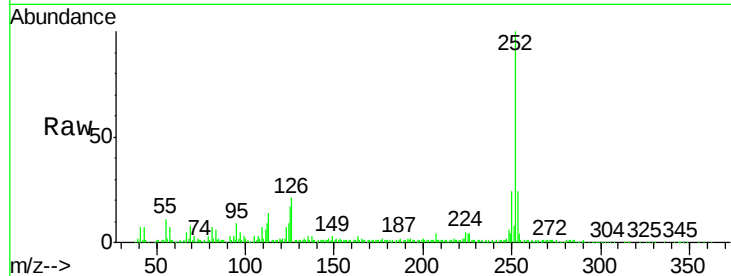
#89
Benzo(a)pyrene
Concen: 11.01 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Instrument :
BNA_F
ClientSampleId :
B1-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.1	18.2	27.2
125	16.8	10.0	15.0#

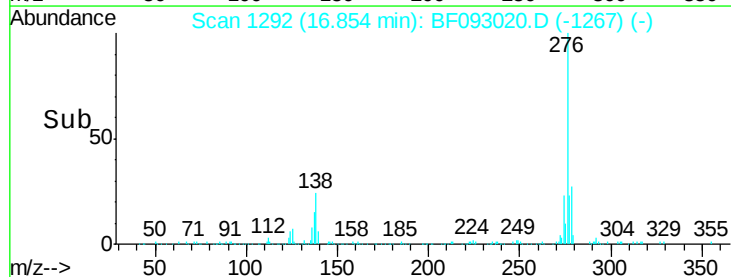
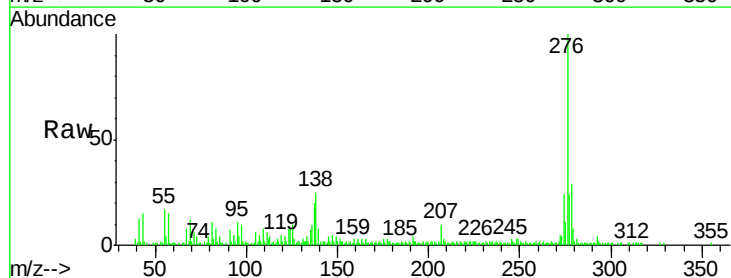
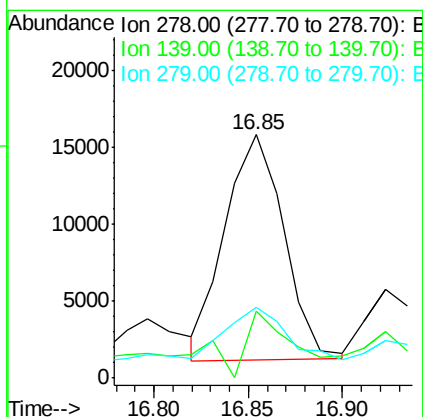
Manual Integrations
APPROVED

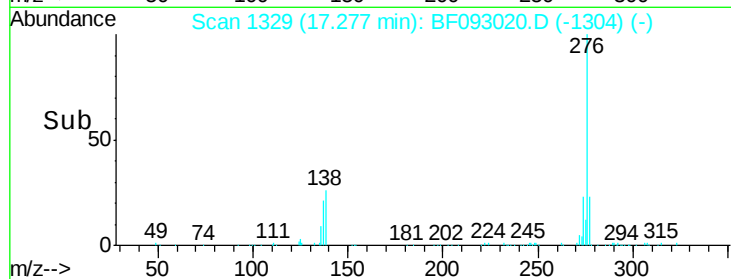
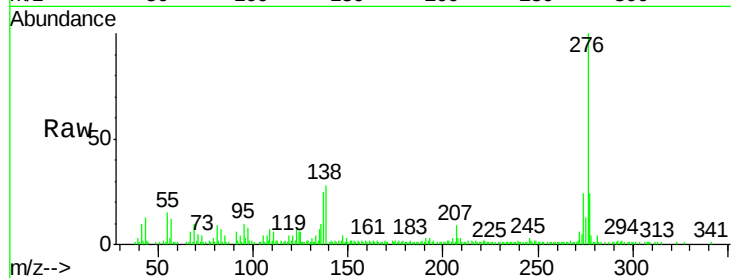
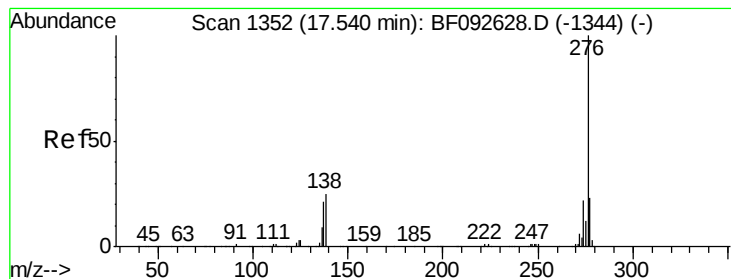
mohammad
2/20/2017 12:59:55 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.25 ng m
RT: 16.85 min Scan# 1292
Delta R.T. -0.01 min
Lab File: BF093020.D
Acq: 17 Feb 2017 19:42

Tgt Ion	Ratio	Resp Lower	Resp Upper
278	100		
139	27.3	14.8	22.2#
279	29.0	19.8	29.6





#91

Benzo(g,h,i)perylene

Concen: 8.21 ng

RT: 17.28 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF093020.D

Acq: 17 Feb 2017 19:42

Instrument :

BNA_F

ClientSampleId :

B1-2

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100				
277	24.3	19.2	28.8		
138	28.4	16.0	24.0		

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