

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094154.D
 Acq On : 4 Apr 2017 8:01
 Operator : SJ/MA
 Sample : I2510-06
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-O12.5-ESW

Manual Integrations
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Quant Time: Apr 04 08:25:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	168570	20.00	ng	-0.01
21) Naphthalene-d8	7.39	136	627764	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	244680	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	361455	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	309551	20.00	ng	-0.01
86) Perylene-d12	16.25	264	214584	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.43	112	1031490	103.35	ng	0.00
7) Phenol-d6	5.50	99	1313323	106.37	ng	-0.01
23) Nitrobenzene-d5	6.54	82	709070	64.46	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	181651	93.95	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1384342	86.30	ng	-0.02
78) Terphenyl-d14	13.34	244	879843	63.71	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	5.51	94	33197	2.36	ng	91
31) Naphthalene	7.42	128	72073	2.39	ng	99
37) 2-Methylnaphthalene	8.26	142	48526	2.41	ng	97
48) Acenaphthylene	9.36	152	117770	4.59	ng	99
49) Dimethylphthalate	9.21	163	139577	8.02	ng	99
70) Phenanthrene	11.39	178	215721	10.73	ng	99
71) Anthracene	11.45	178	113574	5.49	ng	96
74) Fluoranthene	12.86	202	442021	21.47	ng	98
77) Pyrene	13.13	202	397618	17.70	ng	98
80) Benzo(a)anthracene	14.60	228	227128m	12.58	ng	
82) Chrysene	14.64	228	241618	14.42	ng	96
83) Bis(2-ethylhexyl)phthalate	14.67	149	36073	2.76	ng	# 97
85) Indeno(1,2,3-cd)pyrene	17.59	276	107597	7.42	ng	97
87) Benzo(b)fluoranthene	15.84	252	321458m	24.44	ng	
88) Benzo(k)fluoranthene	15.87	252	69621m	5.41	ng	
89) Benzo(a)pyrene	16.19	252	149056	12.31	ng	# 94
90) Dibenzo(a,h)anthracene	17.61	278	26540	2.59	ng	# 91
91) Benzo(g,h,i)perylene	17.99	276	97275	9.41	ng	96

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

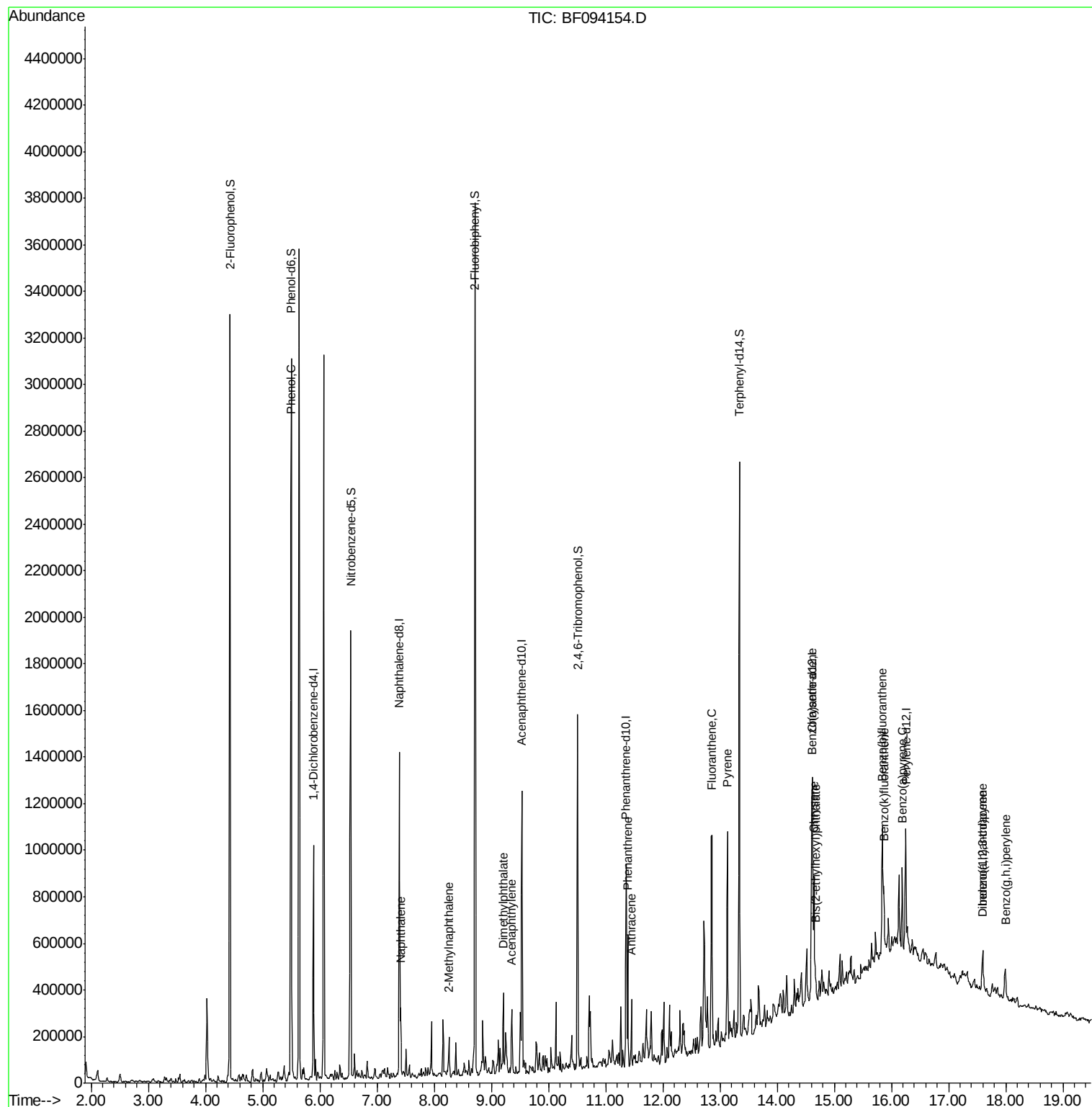
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
Data File : BF094154.D
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Misc :
ALS Vial : 36 Sample Multiplier: 1

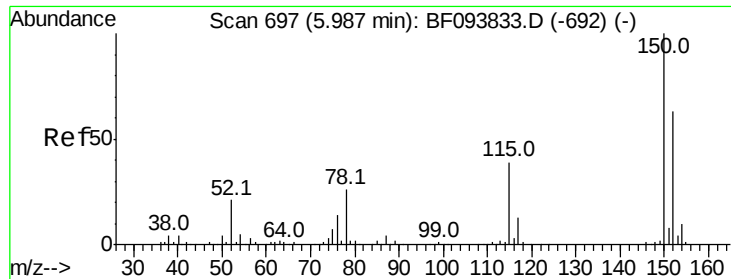
Instrument :
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E2-O12.5-ESW

Manual Integrations
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#1

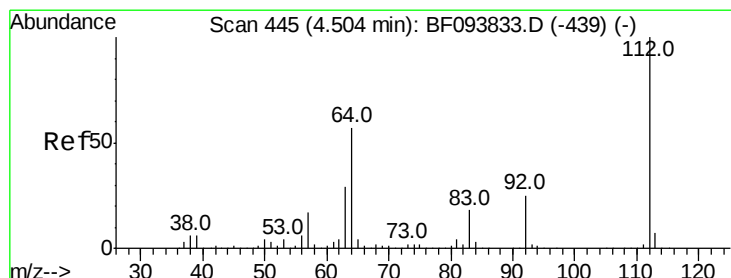
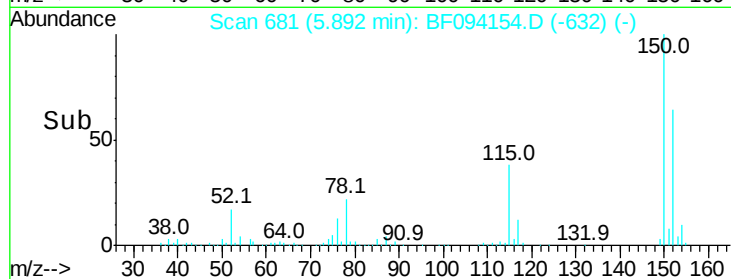
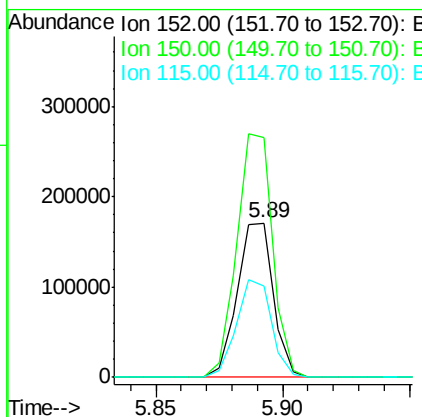
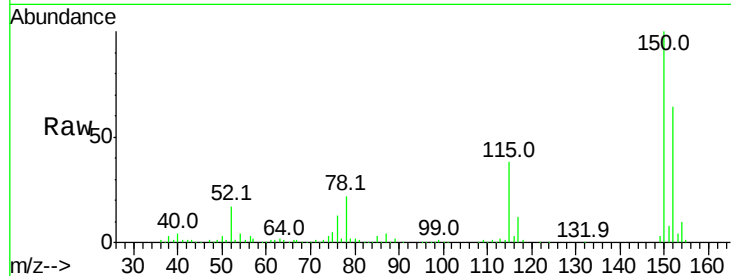
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 681
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	126.2	189.2
115	59.1	52.2	78.2

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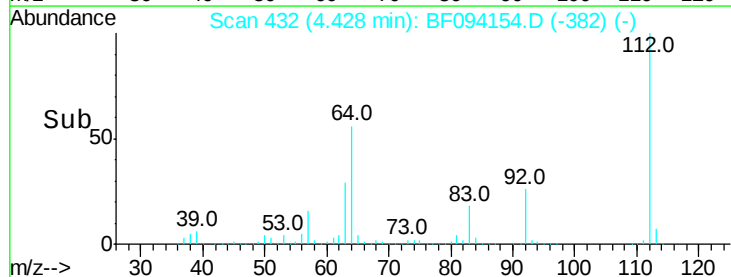
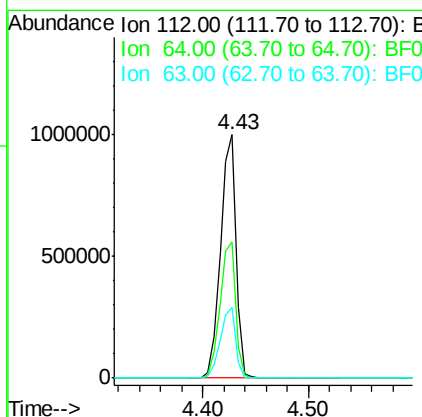
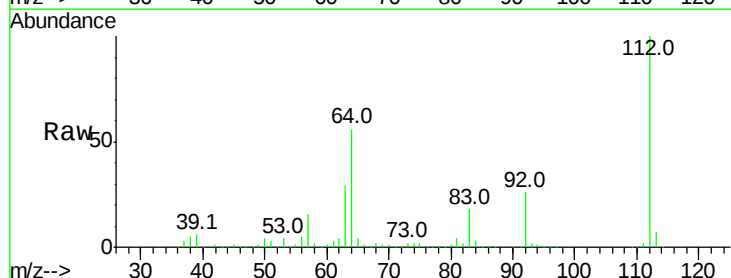
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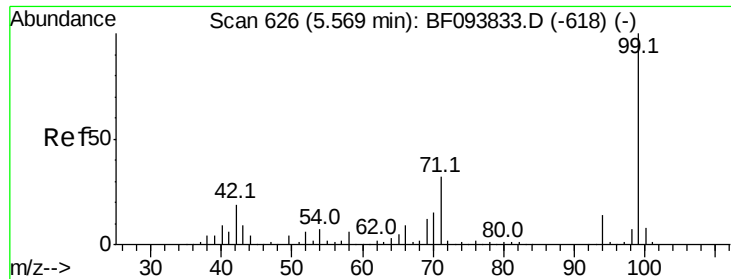


#5

2-Fluorophenol
Concen: 103.35 ng
RT: 4.43 min Scan# 432
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	46.0	69.0
63	28.9	23.4	35.0





#7

Phenol-d6

Concen: 106.37 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Instrument :

BNA_F

ClientSampleId :

E2-O12.5-ESW

Tot Ion: 99 Resp: 1313323

Ion Ratio Lower Upper

99 100

42 18.7 13.5 20.3

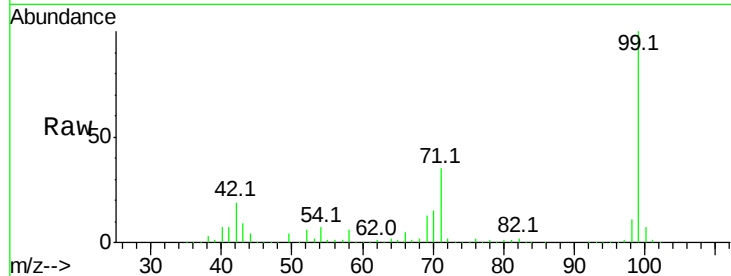
71 35.5 24.5 36.7

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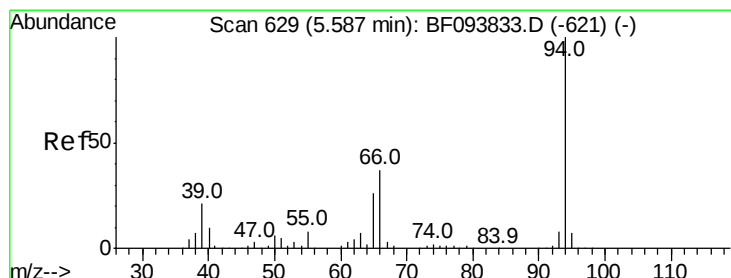
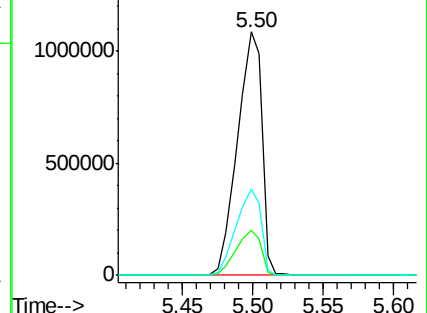
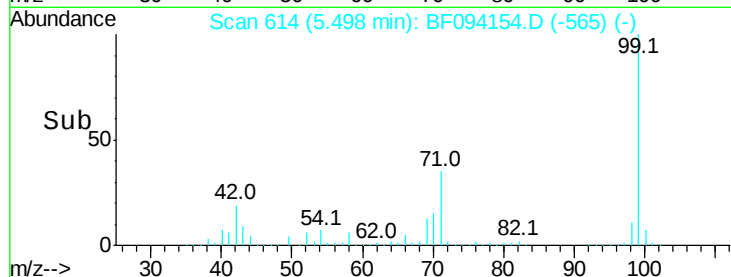
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.36 ng

RT: 5.51 min Scan# 616

Delta R.T. -0.02 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

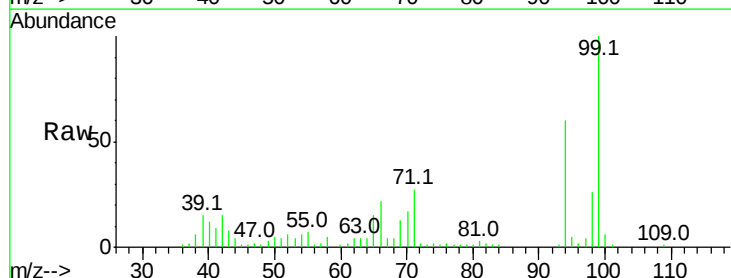
Tgt Ion: 94 Resp: 33197

Ion Ratio Lower Upper

94 100

65 25.0 9.9 49.9

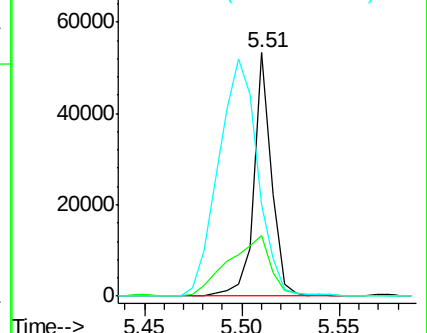
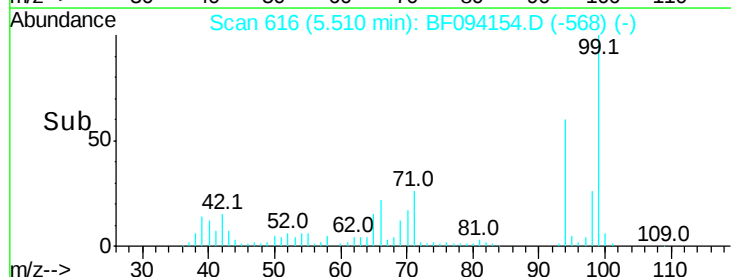
66 37.5 23.1 63.1

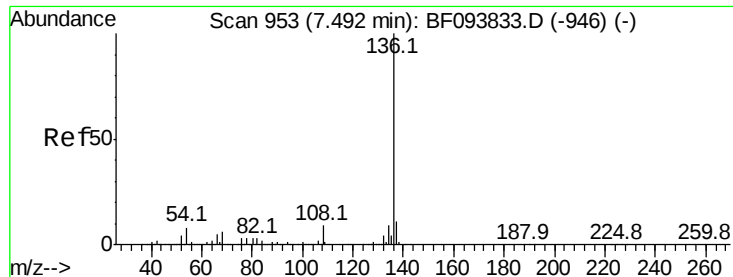


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Instrument :

BNA_F

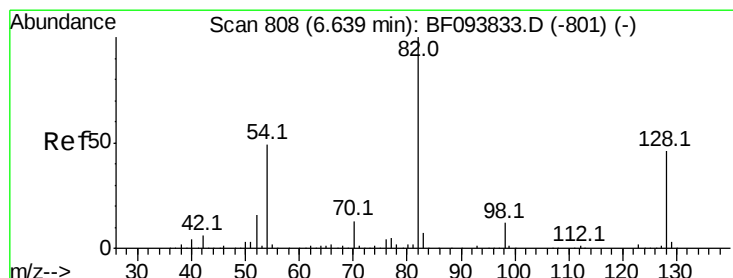
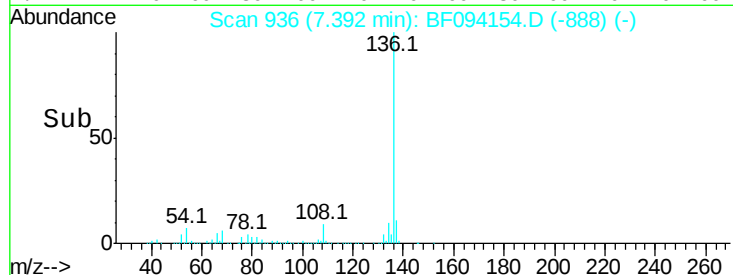
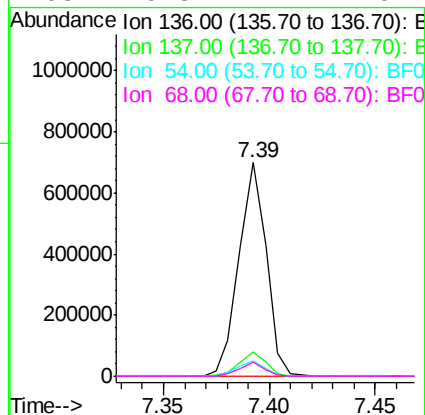
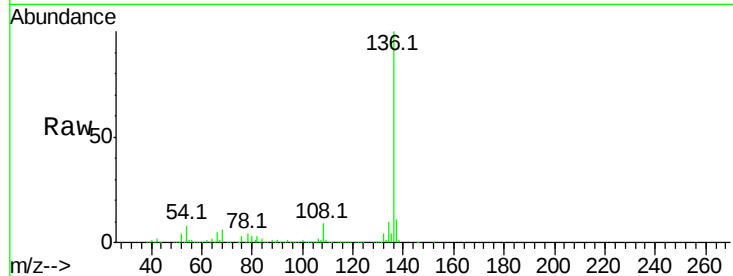
ClientSampleId :

E2-O12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
136	100	627764		
137	11.2	8.5	12.7	
54	7.5	4.9	7.3#	
68	6.3	4.1	6.1#	

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#23

Nitrobenzene-d5

Concen: 64.46 ng

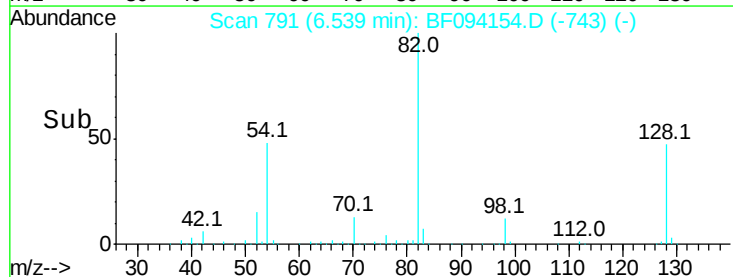
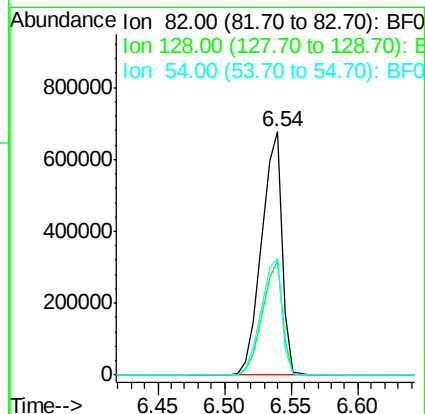
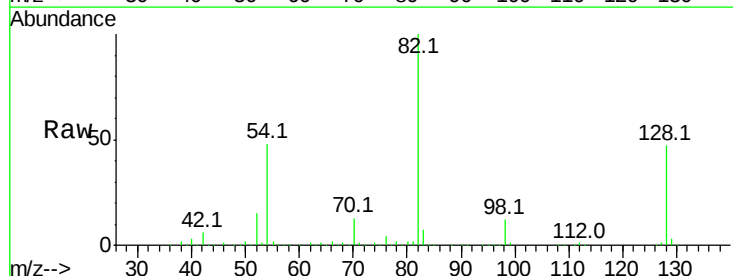
RT: 6.54 min Scan# 791

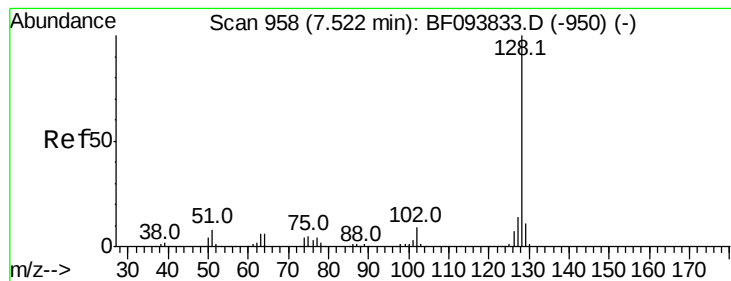
Delta R.T. -0.02 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	709070		
128	47.2	34.0	51.0	
54	47.9	42.2	63.2	





#31

Naphthalene

Concen: 2.39 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Instrument :

BNA_F

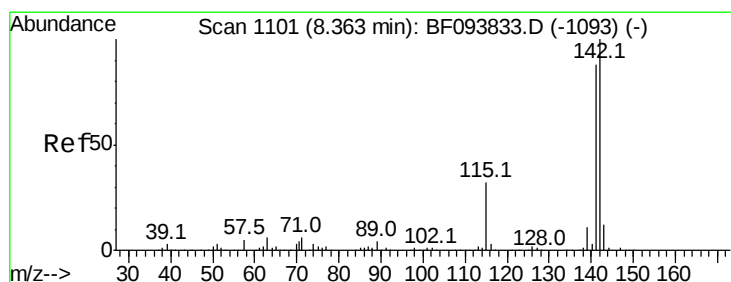
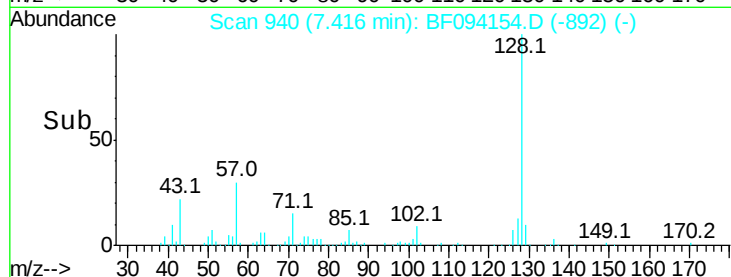
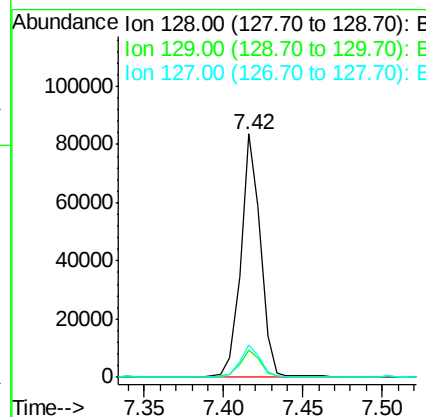
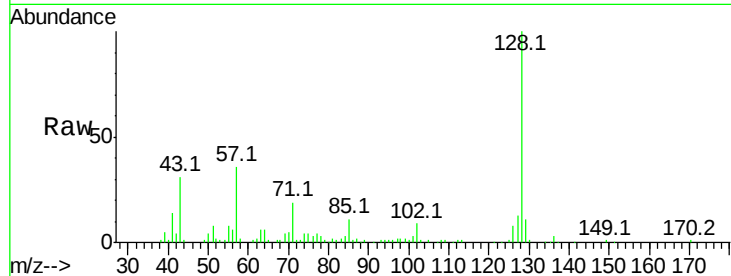
ClientSampleId :

E2-O12.5-ESW

Tot Ion:	128	Resp:	72073
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	13.4	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 2.41 ng

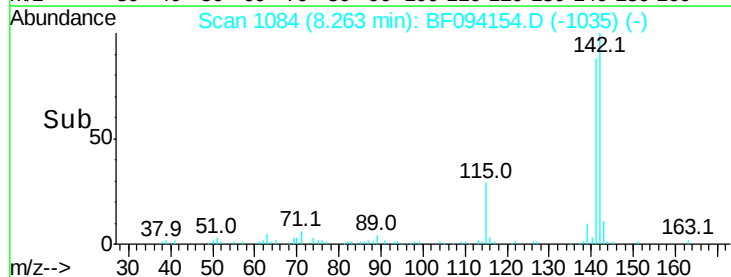
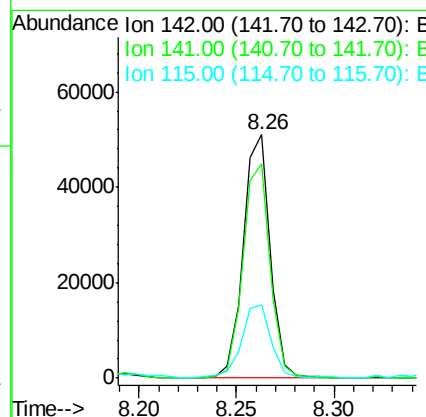
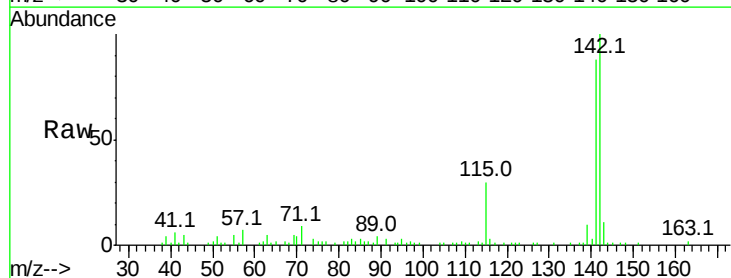
RT: 8.26 min Scan# 1084

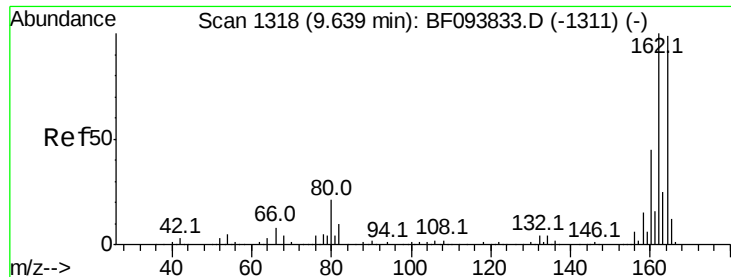
Delta R.T. -0.01 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Tgt Ion:	142	Resp:	48526
Ion Ratio	Lower	Upper	
142	100		
141	87.8	71.3	106.9
115	30.2	27.1	40.7





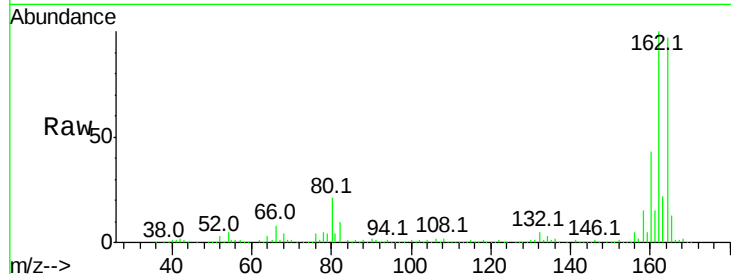
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

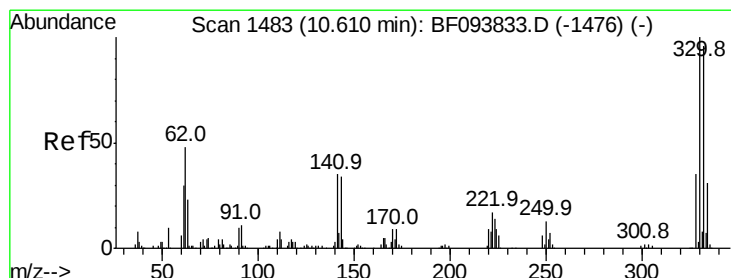
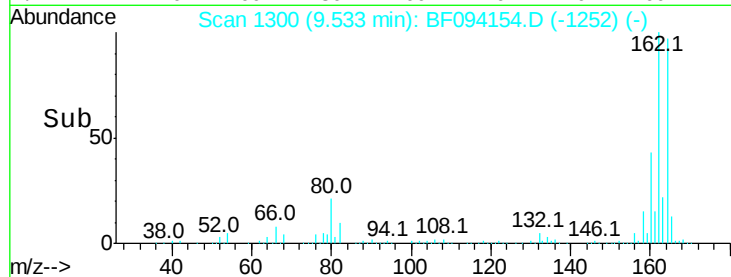
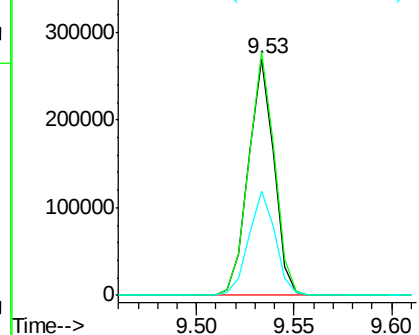
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.0	82.6	123.8	
160	44.3	36.2	54.2	

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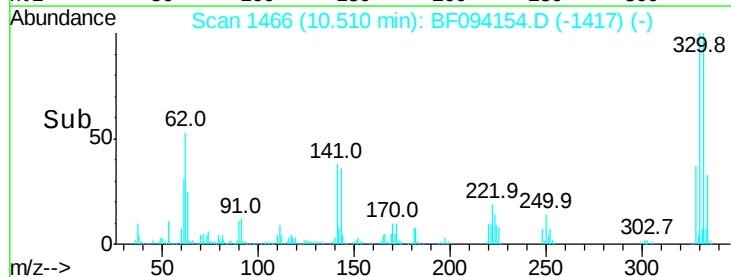
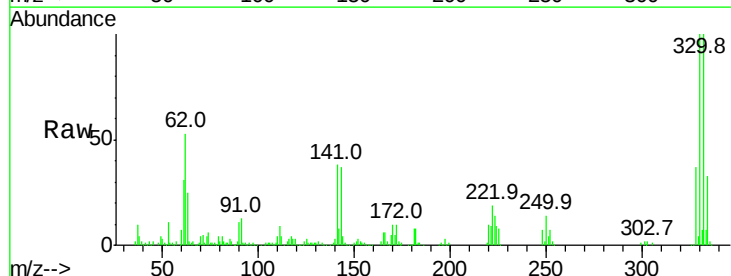
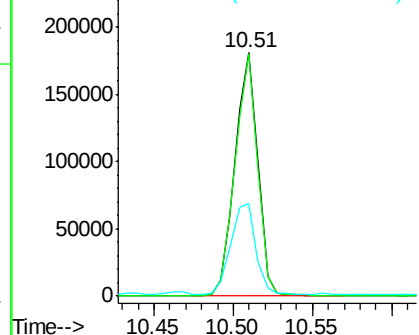
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

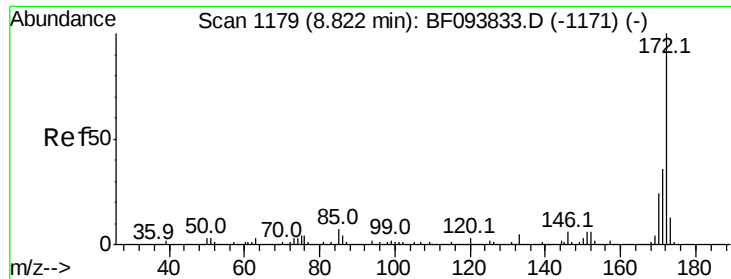


#41
2,4,6-Tribromophenol
Concen: 93.95 ng
RT: 10.51 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.9	76.6	115.0	
141	41.2	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





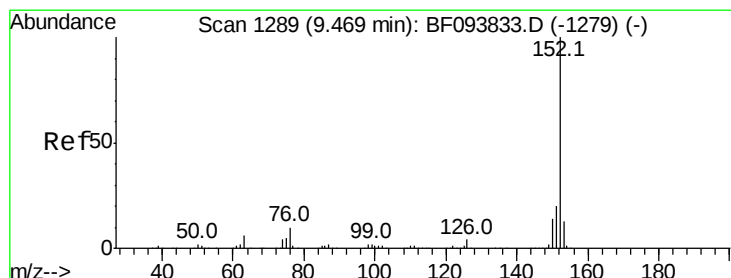
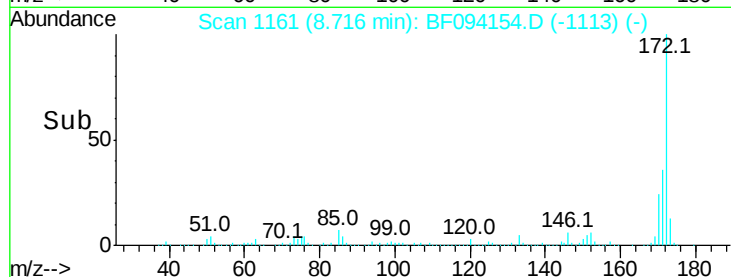
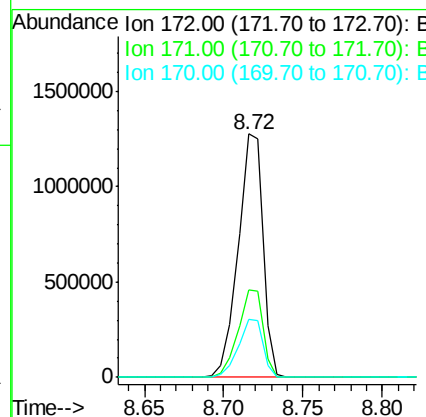
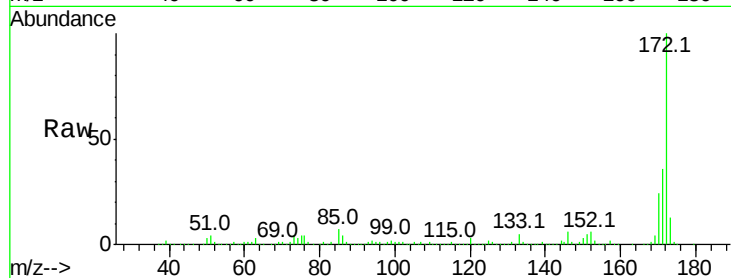
#44
2-Fluorobiphenyl
Concen: 86.30 ng
RT: 8.72 min Scan# 1161
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.9	19.8	29.8

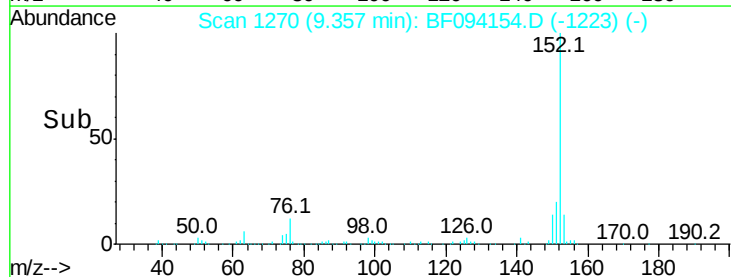
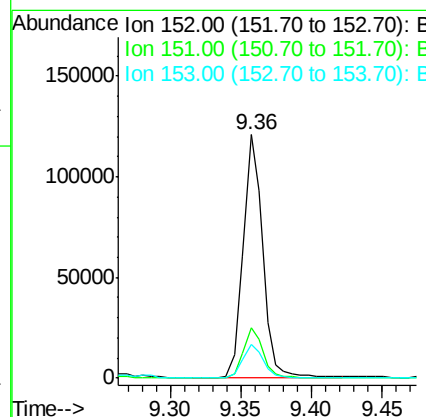
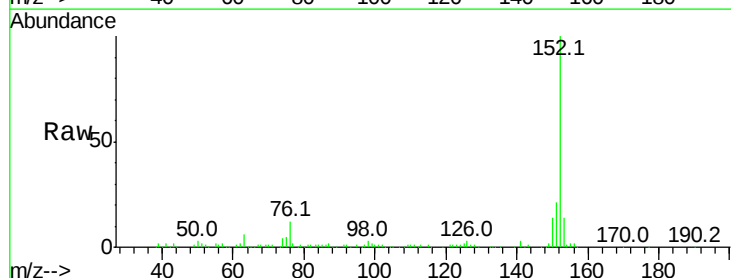
Manual Integrations
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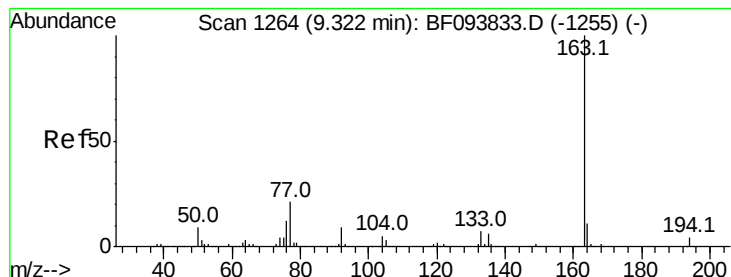
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#48
Acenaphthylene
Concen: 4.59 ng
RT: 9.36 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.8	25.2
153	14.1	10.8	16.2





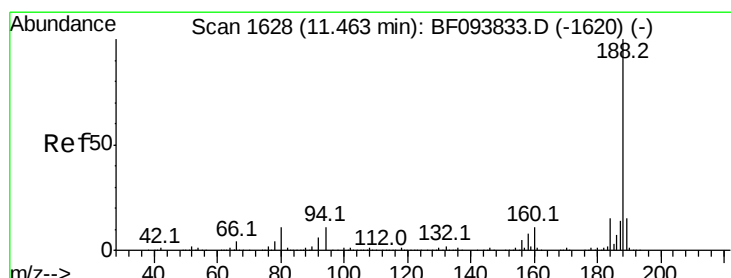
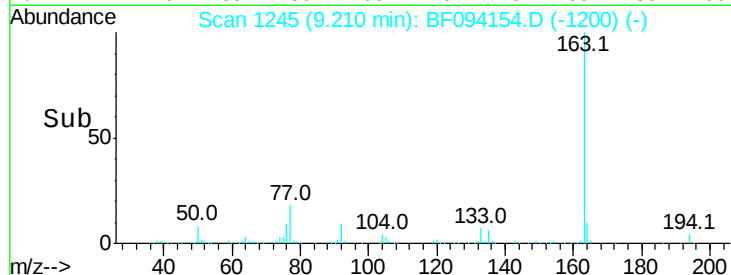
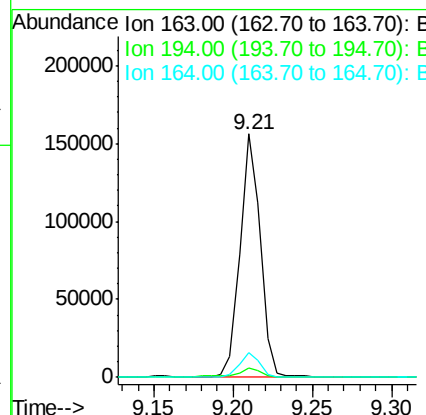
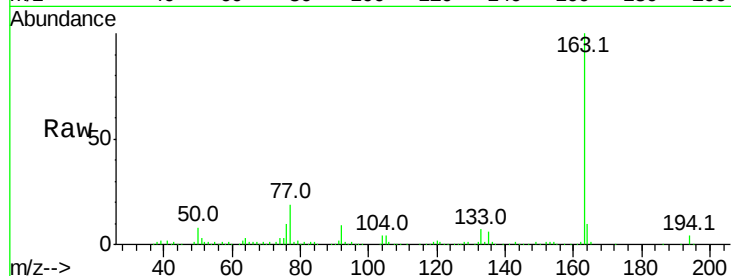
#49
Dimethylphthalate
Concen: 8.02 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7	2.6	4.0	
164	10.2	8.4	12.6	

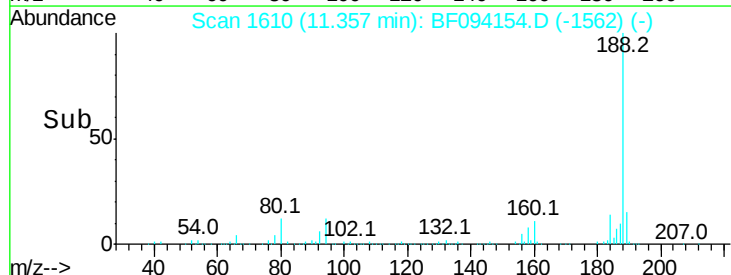
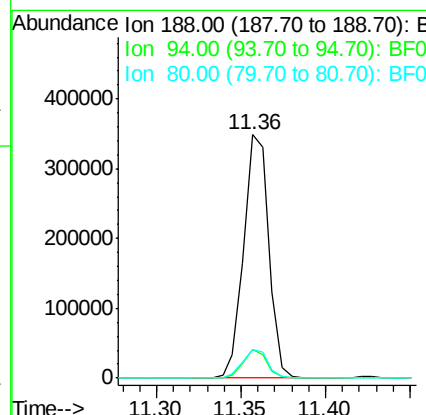
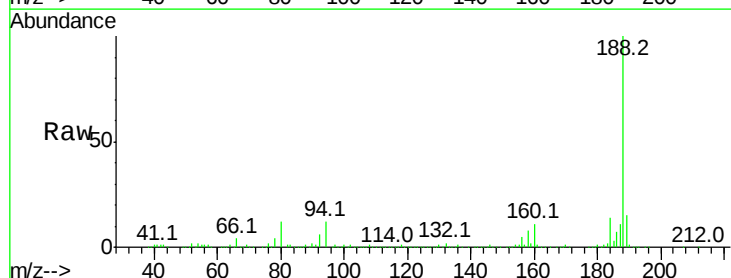
Manual Integrations
APPROVED

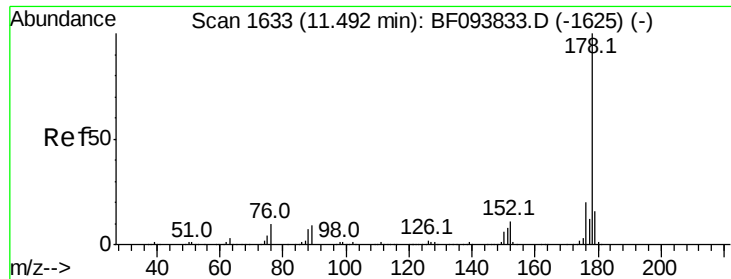
mohammad
4/4/2017 5:35:13 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 1610
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.7	9.4	14.2	
80	11.9	10.2	15.2	





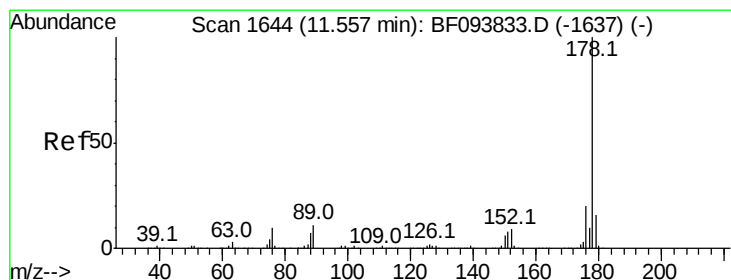
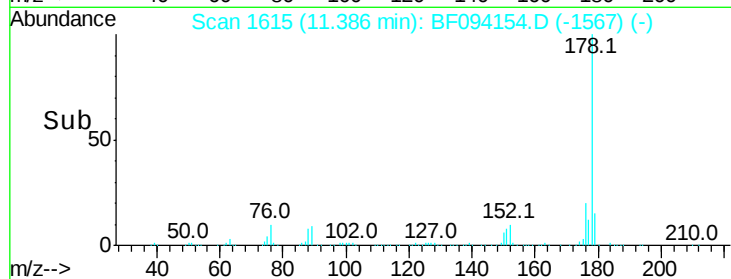
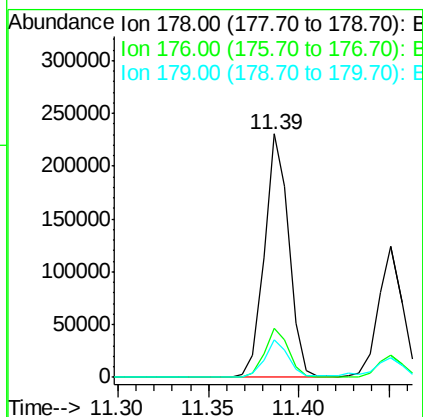
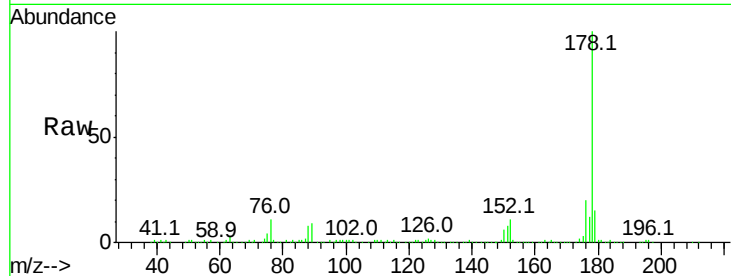
#70
Phenanthrene
Concen: 10.73 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.2	24.4
179	15.3	12.6	19.0

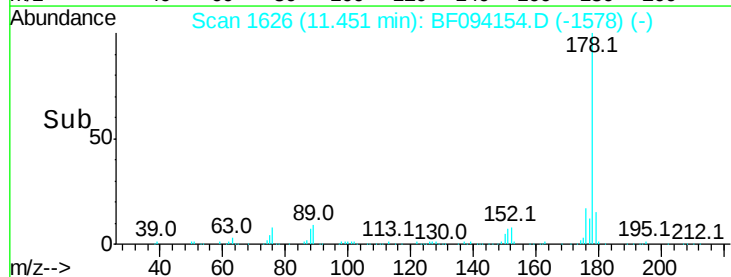
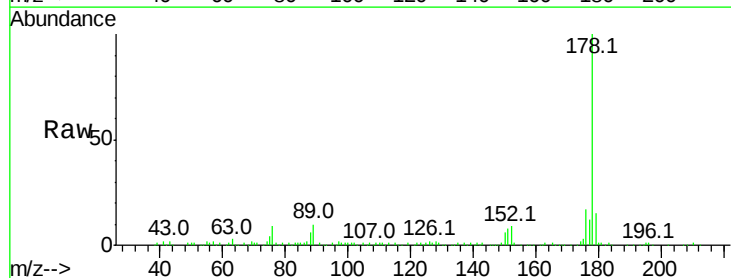
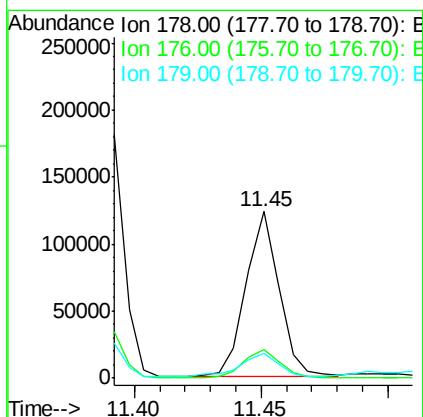
Manual Integrations
APPROVED

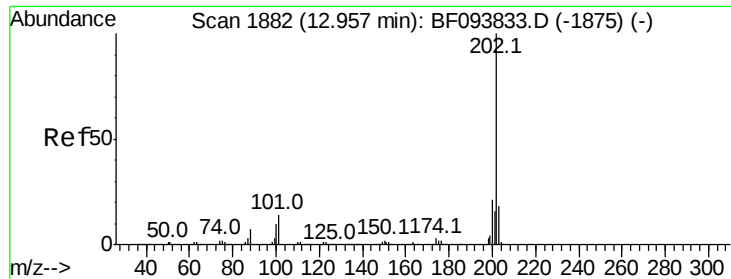
mohammad
4/4/2017 5:35:13 PM



#71
Anthracene
Concen: 5.49 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.4	15.8	23.8
179	15.2	12.7	19.1





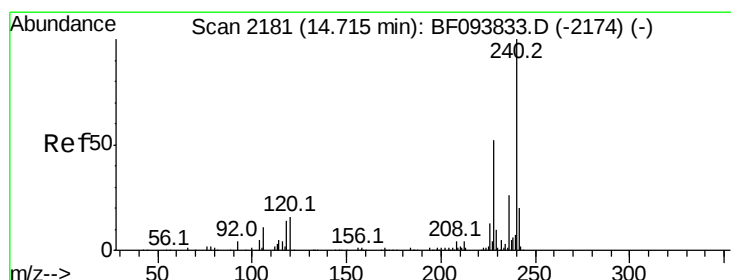
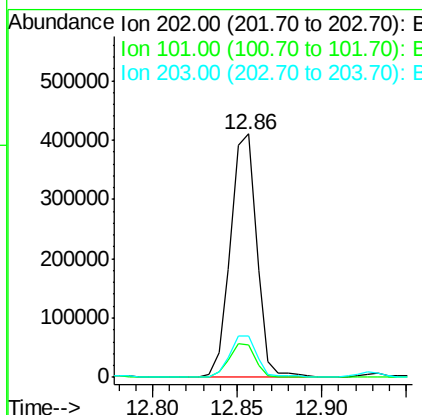
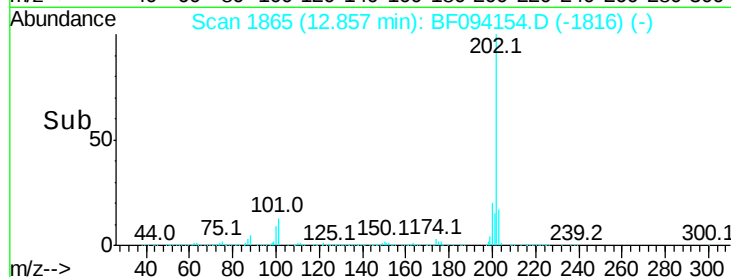
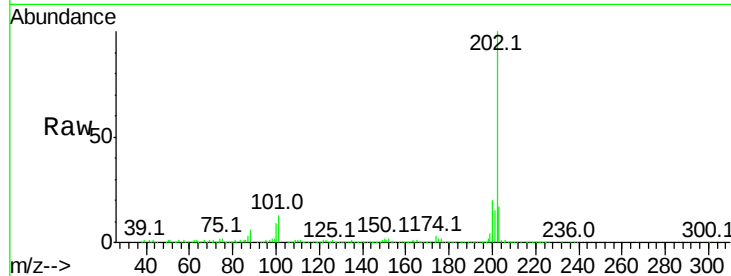
#74
 Fluoranthene
 Concen: 21.47 ng
 RT: 12.86 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF094154.D
 Acq: 4 Apr 2017 8:01

Instrument :
 BNA_F
 ClientSampleId :
 E2-O12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
202	100	442021		
101	13.1	0.0	33.2	
203	17.0	0.0	38.1	

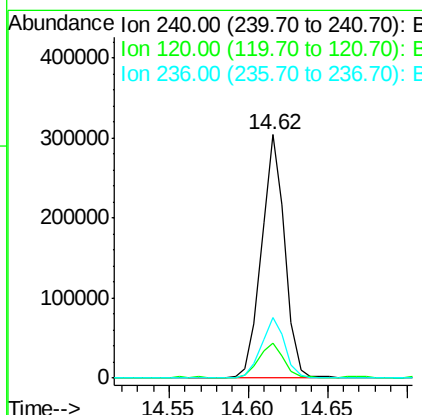
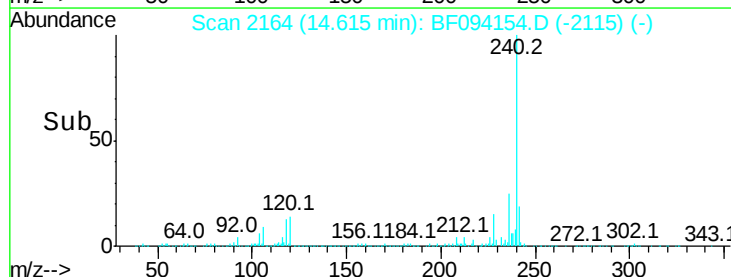
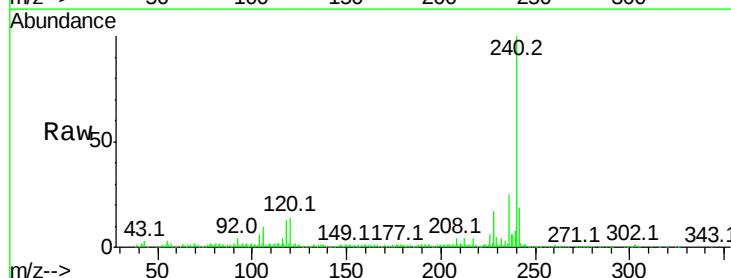
Manual Integrations
 APPROVED

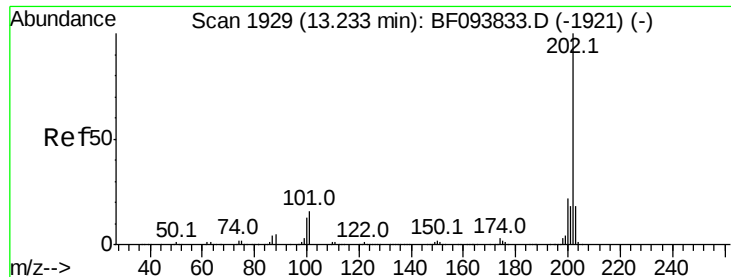
mohammad
 4/4/2017 5:35:13 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.62 min Scan# 2164
 Delta R.T. -0.01 min
 Lab File: BF094154.D
 Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	309551		
120	14.4	5.8	8.8#	
236	25.0	20.5	30.7	





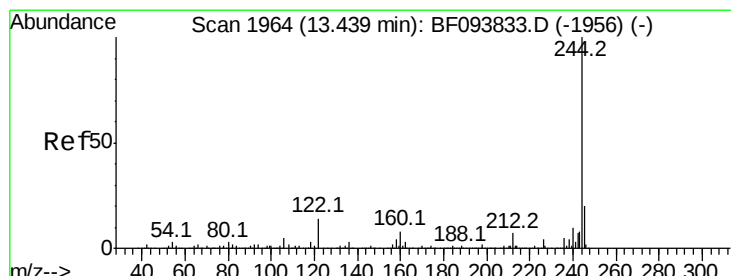
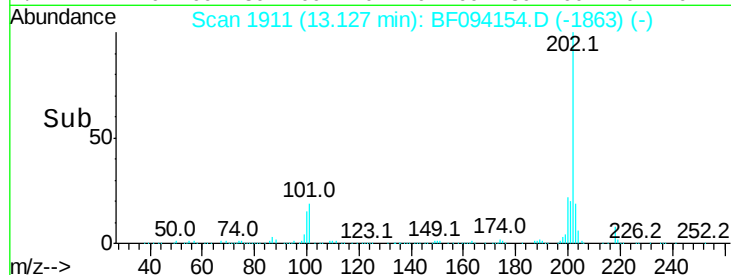
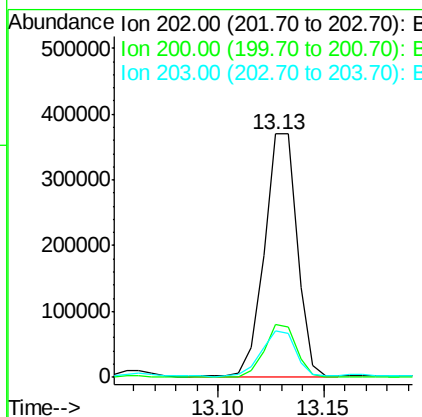
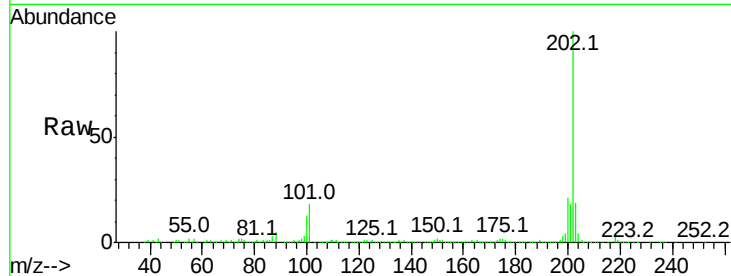
#77
Pvrene
Concen: 17.70 ng
RT: 13.13 min Scan# 1911
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.5	17.6	26.4
203	19.0	14.4	21.6

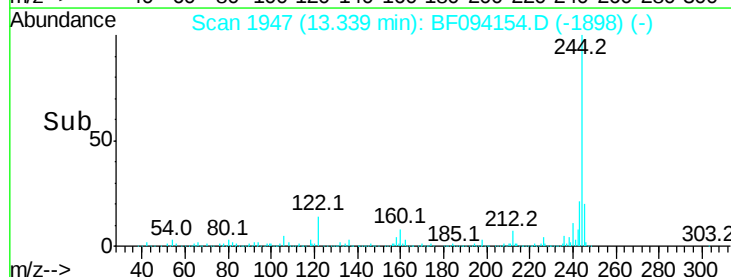
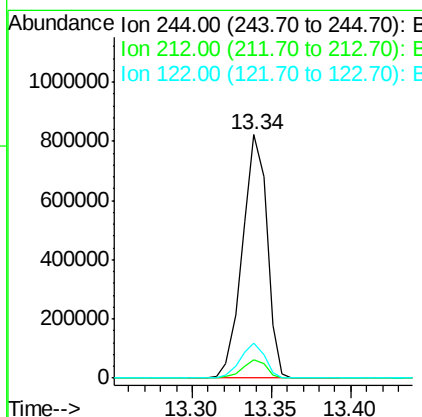
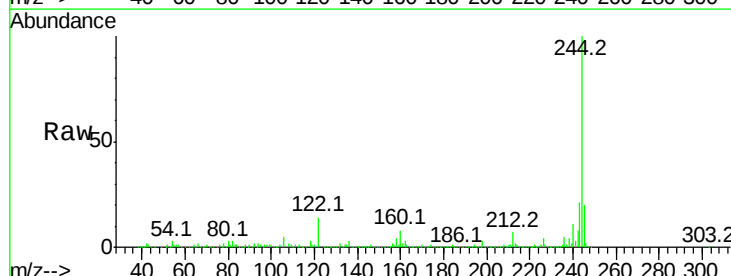
Manual Integrations
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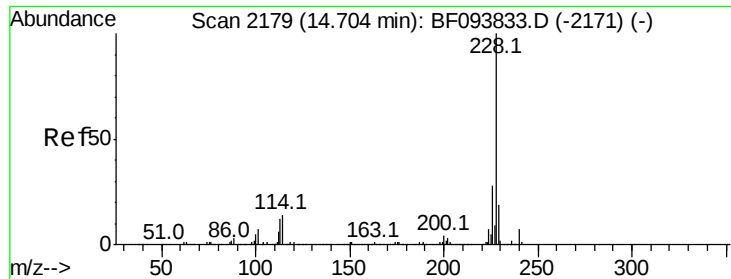
mohammad
4/4/2017 5:35:13 PM



#78
Terphenyl-d14
Concen: 63.71 ng
RT: 13.34 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.4	6.0	9.0
122	14.4	10.3	15.5





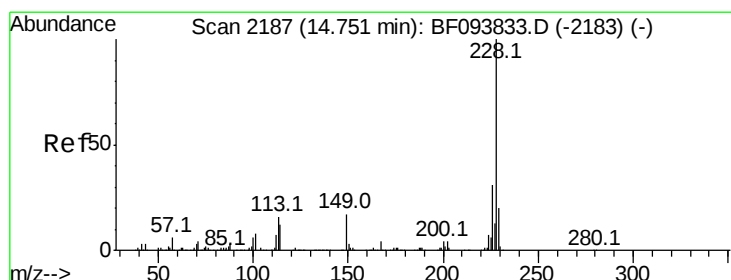
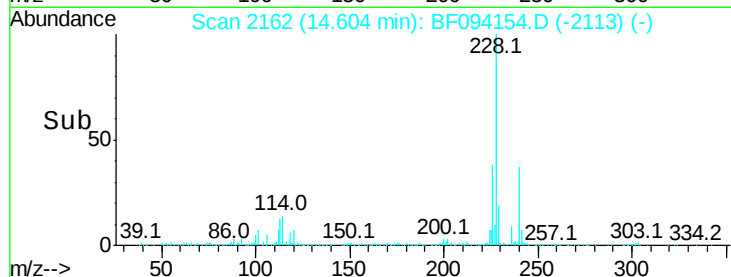
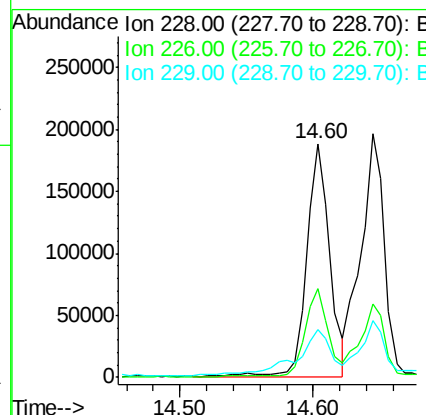
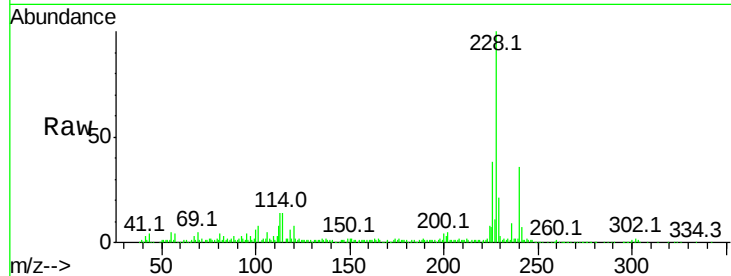
#80
Benzo(a)anthracene
Concen: 12.58 ng
RT: 14.60 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Resp	Lower	Upper
228	100	227128		
226	38.0		22.6	33.8#
229	20.6		16.3	24.5

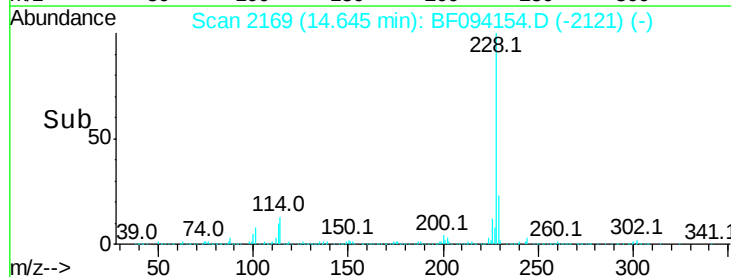
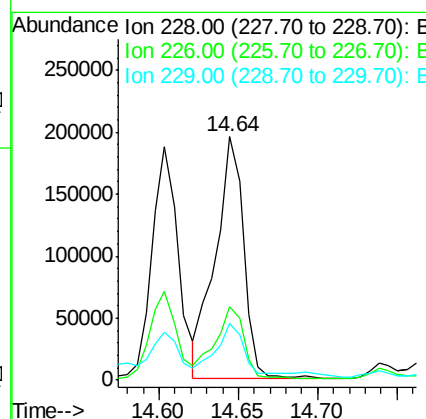
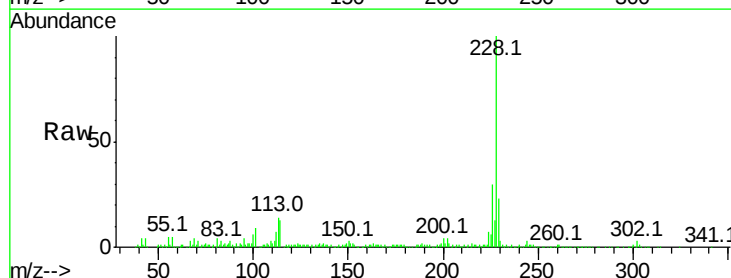
Manual Integrations
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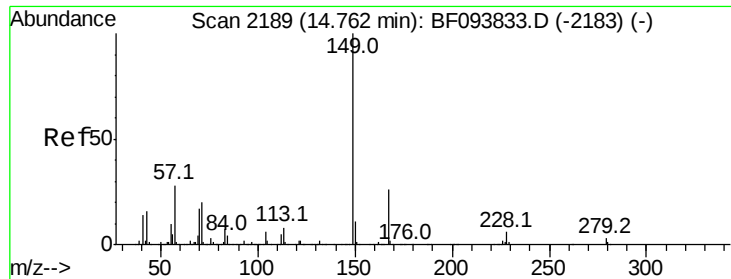
mohammad
4/4/2017 5:35:13 PM



#82
Chrysene
Concen: 14.42 ng
RT: 14.64 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	241618		
226	30.2		24.9	37.3
229	23.4		15.8	23.6





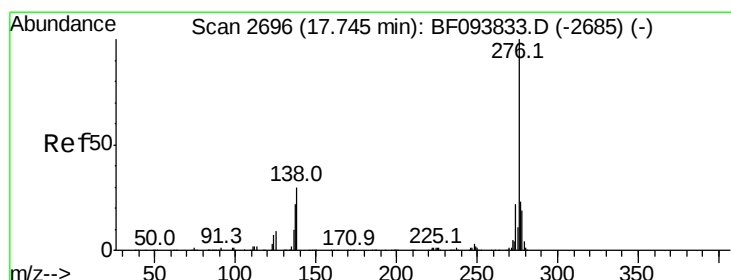
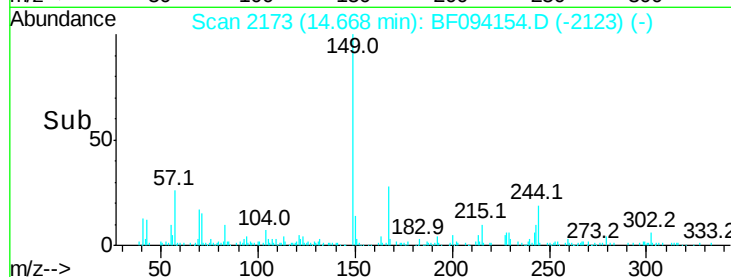
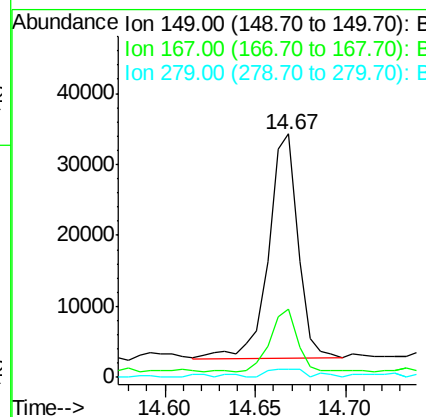
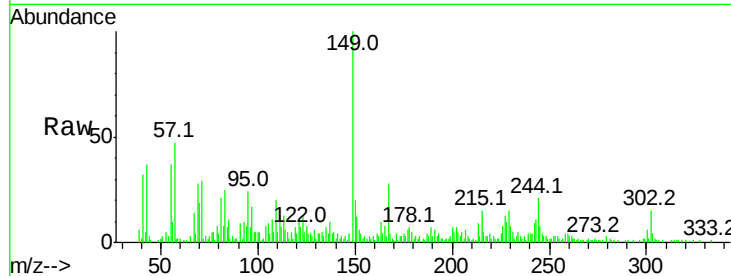
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.76 ng
 RT: 14.67 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: BF094154.D
 Acq: 4 Apr 2017 8:01

Instrument :
 BNA_F
 ClientSampleId :
 E2-O12.5-ESW

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.0	31.4
279	3.4	1.9	2.9

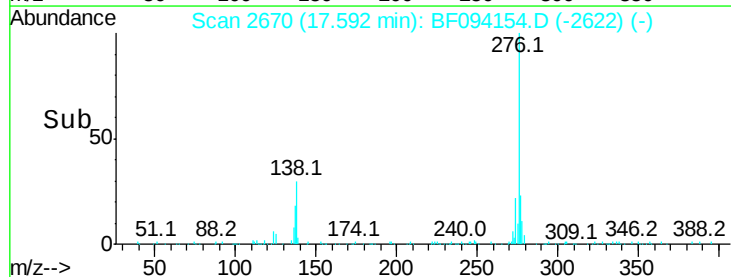
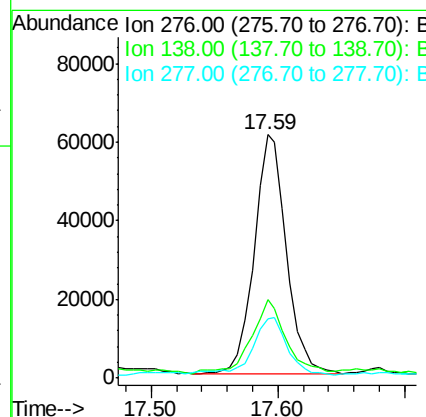
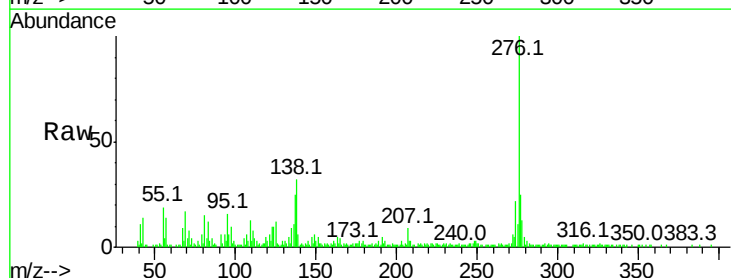
Manual Integrations
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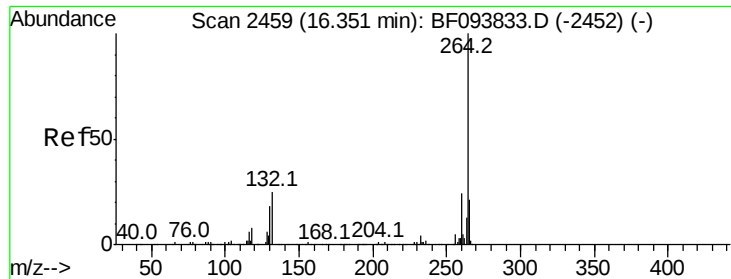
mohammad
 4/4/2017 5:35:13 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.42 ng
 RT: 17.59 min Scan# 2670
 Delta R.T. -0.02 min
 Lab File: BF094154.D
 Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.8	27.8	41.6
277	26.5	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.25 min Scan# 2442

Delta R.T. -0.00 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Instrument :

BNA_F

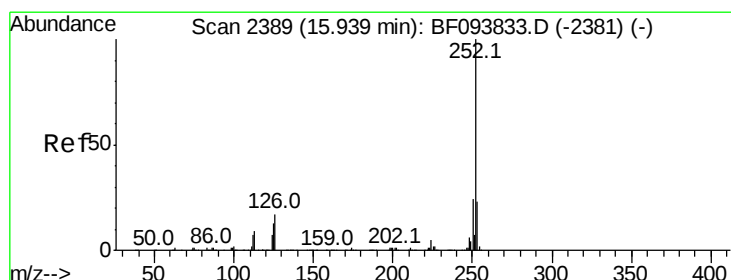
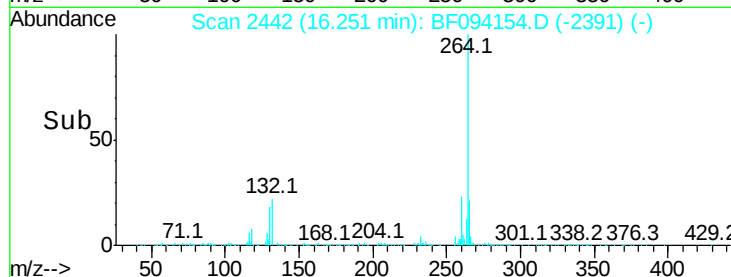
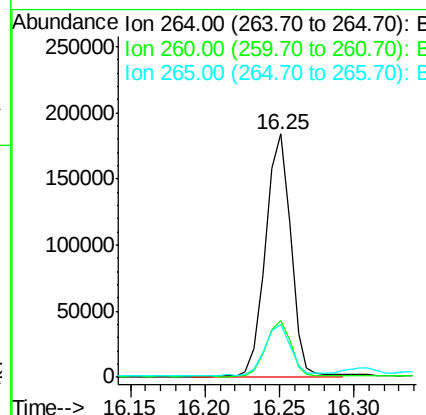
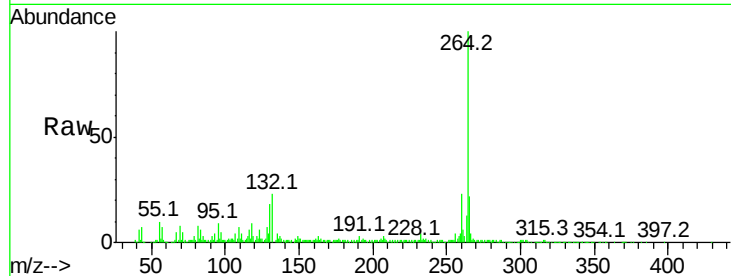
ClientSampleId :

E2-O12.5-ESW

Tot Ion:	264	Resp:	214584
Ion Ratio		Lower	Upper
264	100		
260	23.4	19.5	29.3
265	21.6	17.2	25.8

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 24.44 ng m

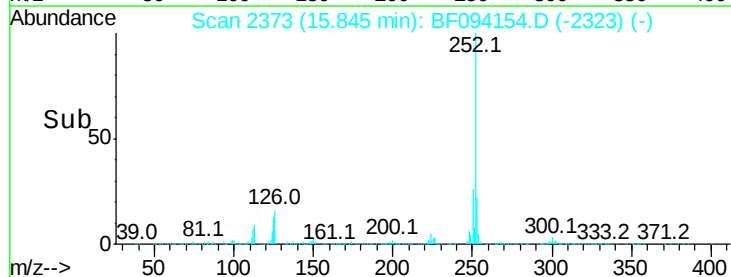
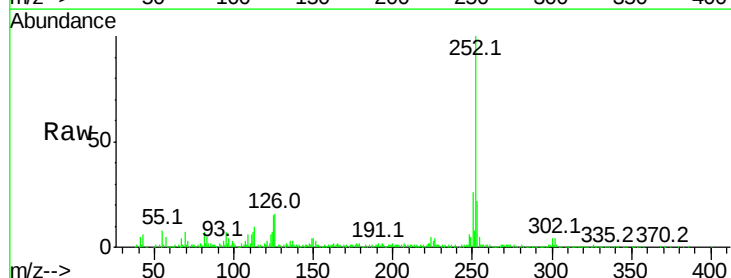
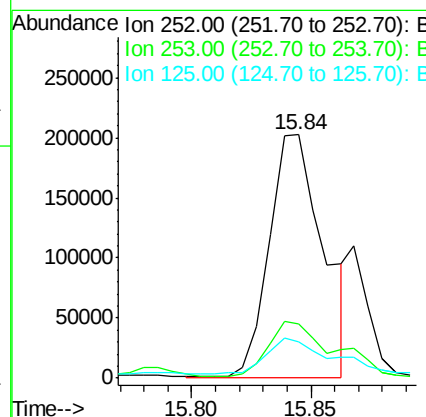
RT: 15.84 min Scan# 2373

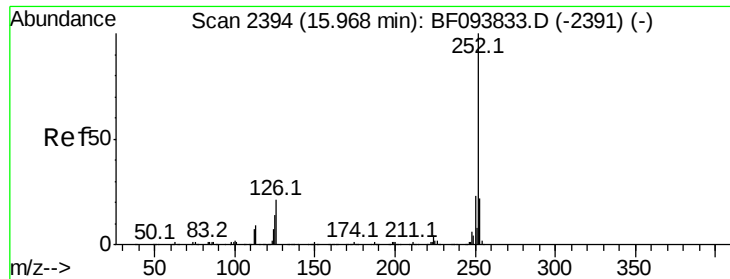
Delta R.T. -0.01 min

Lab File: BF094154.D

Acq: 4 Apr 2017 8:01

Tgt Ion:	252	Resp:	321458
Ion Ratio		Lower	Upper
252	100		
253	22.2	18.1	27.1
125	14.9	9.8	14.8#





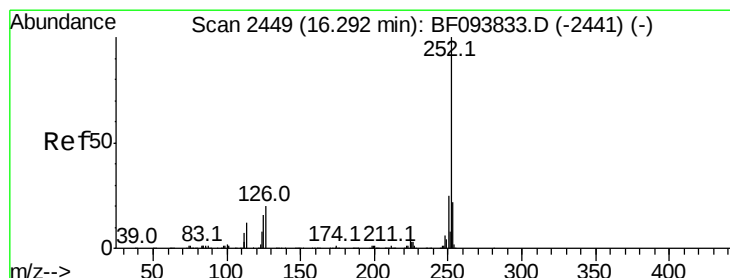
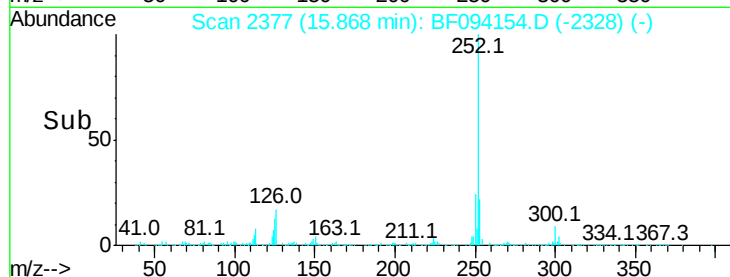
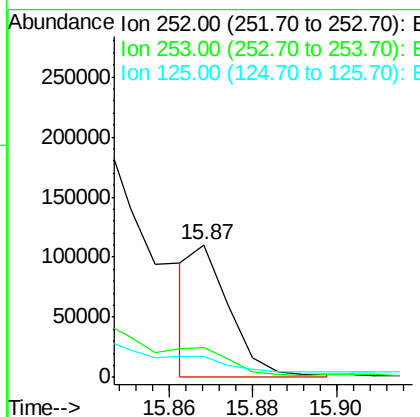
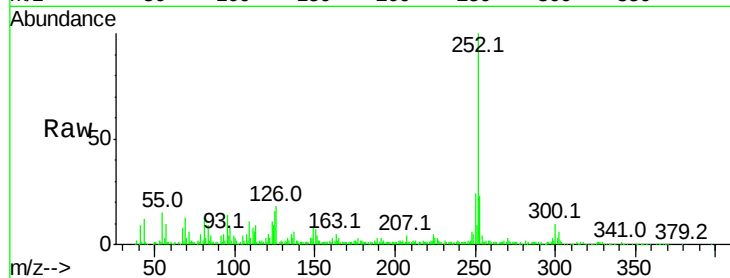
#88
Benzo(k)fluoranthene
Concen: 5.41 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.4	27.6
125	15.6	13.1	19.7

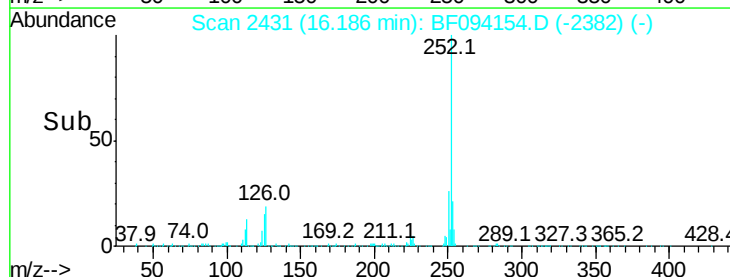
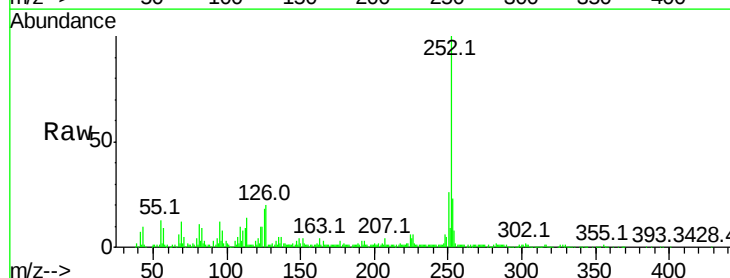
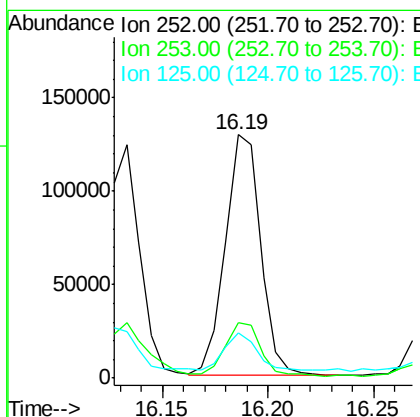
Manual Integrations
APPROVED

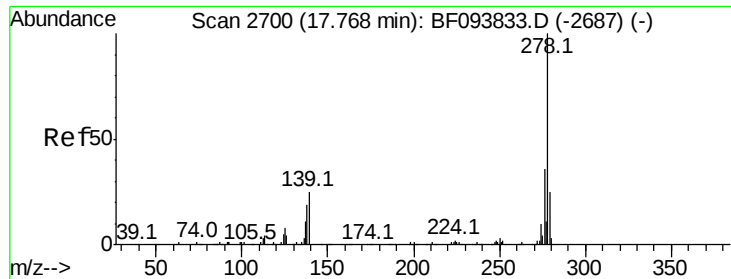
mohammad
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#89
Benzo(a)pyrene
Concen: 12.31 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	18.5	11.0	16.4





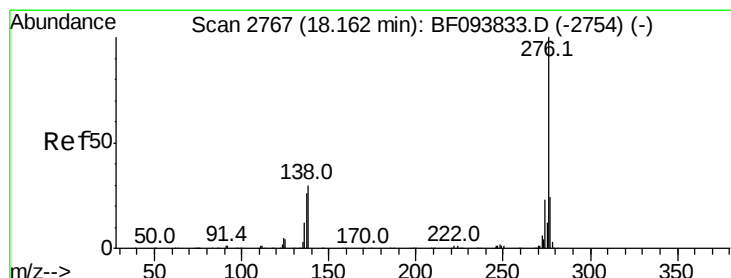
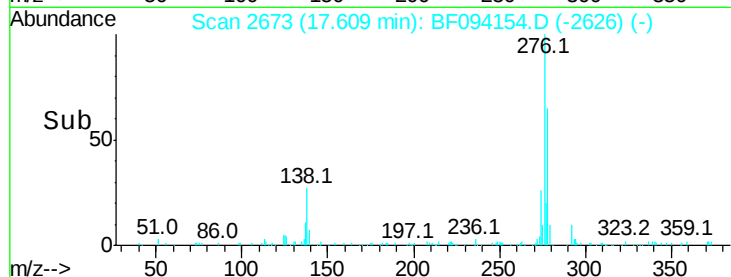
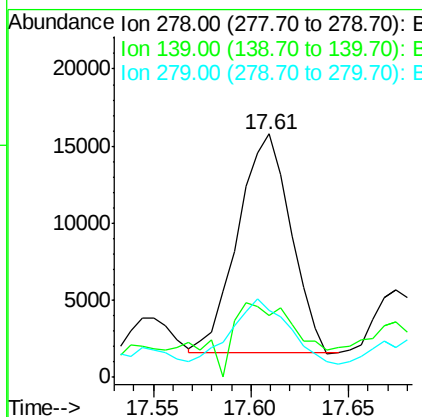
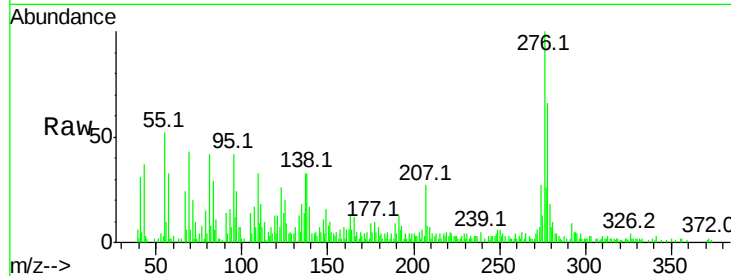
#90
Dibenzo(a,h)anthracene
Concen: 2.59 ng
RT: 17.61 min Scan# 2673
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Instrument :
BNA_F
ClientSampleId :
E2-O12.5-ESW

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.5	16.6	24.8#
279	27.7	19.3	28.9

Manual Integrations
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mohammad
4/4/2017 5:35:13 PM



#91
Benzo(g,h,i)perylene
Concen: 9.41 ng
RT: 17.99 min Scan# 2738
Delta R.T. -0.02 min
Lab File: BF094154.D
Acq: 4 Apr 2017 8:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	18.6	28.0
138	29.6	25.4	38.0

