

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
 Data File : BF094497.D
 Acq On : 18 Apr 2017 20:15
 Operator : SJ/MA
 Sample : I2708-13
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-XY9-SSW

Manual Integrations
 APPROVED

mohammad
 4/19/2017 1:33:27 PM

Quant Time: Apr 19 07:18:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	131854	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	523842	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	200424	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	404324	20.00	ng	0.00
75) Chrysene-d12	14.47	240	294043	20.00	ng	0.00
86) Perylene-d12	16.09	264	277637	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	1062192	133.65	ng	0.03
7) Phenol-d6	5.40	99	1374114	146.66	ng	0.00
23) Nitrobenzene-d5	6.42	82	847952	99.95	ng	0.00
41) 2,4,6-Tribromophenol	10.38	330	262376	167.37	ng	0.00
44) 2-Fluorobiphenyl	8.59	172	1424100	104.54	ng	0.00
78) Terphenyl-d14	13.20	244	1036021	94.18	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.29	128	65304	2.59	ng	99
48) Acenaphthylene	9.22	152	50072	2.47	ng	98
49) Dimethylphthalate	9.09	163	445903	29.85	ng	98
54) Dibenzofuran	9.65	168	43845	2.48	ng	96
57) Fluorene	10.07	166	40270	2.93	ng	# 94
70) Phenanthrene	11.25	178	612722	26.91	ng	98
71) Anthracene	11.31	178	111851	4.75	ng	99
72) Carbazole	11.51	167	64883	2.94	ng	96
74) Fluoranthene	12.71	202	874895	37.08	ng	99
77) Pyrene	12.98	202	780606	38.00	ng	98
80) Benzo(a)anthracene	14.45	228	299051	17.50	ng	98
82) Chrysene	14.49	228	290281	18.58	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	178035	11.98	ng	94
87) Benzo(b)fluoranthene	15.69	252	358408m	21.10	ng	
88) Benzo(k)fluoranthene	15.71	252	114397m	7.12	ng	
89) Benzo(a)pyrene	16.03	252	280341	17.74	ng	98
90) Dibenzo(a,h)anthracene	17.37	278	39870m	3.04	ng	
91) Benzo(g,h,i)perylene	17.73	276	165023	12.35	ng	97

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

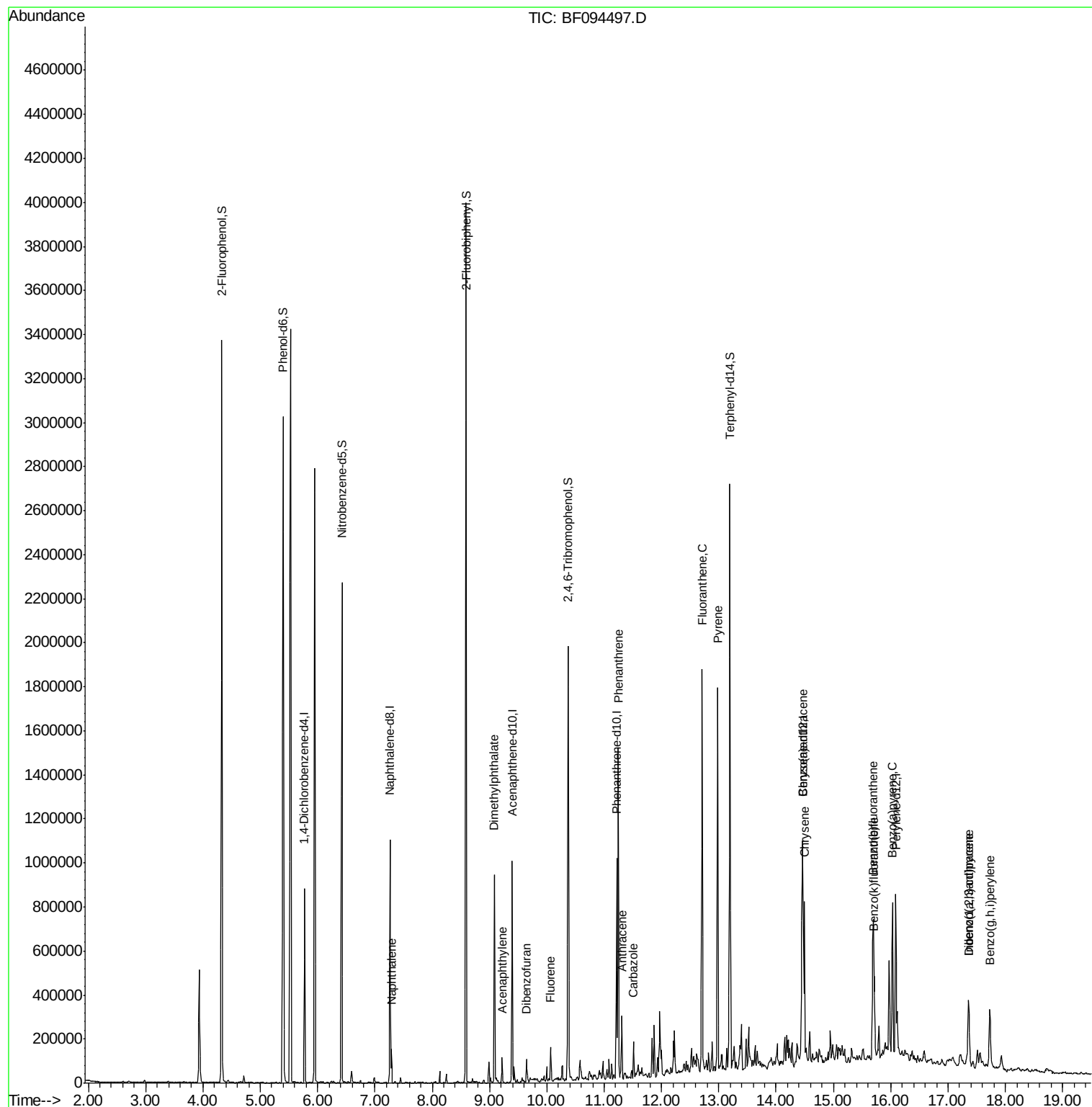
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
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ALS Vial : 9 Sample Multiplier: 1

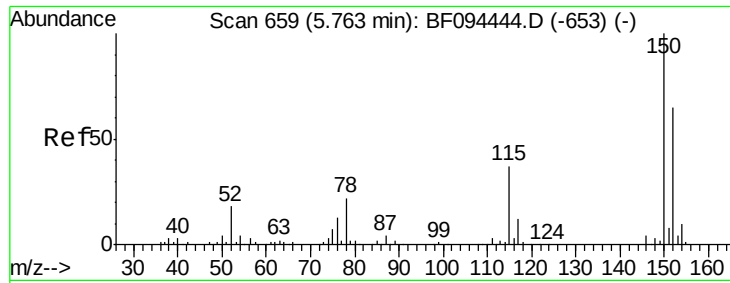
Instrument :
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#1

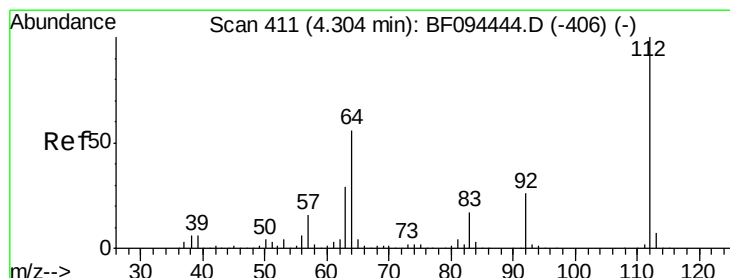
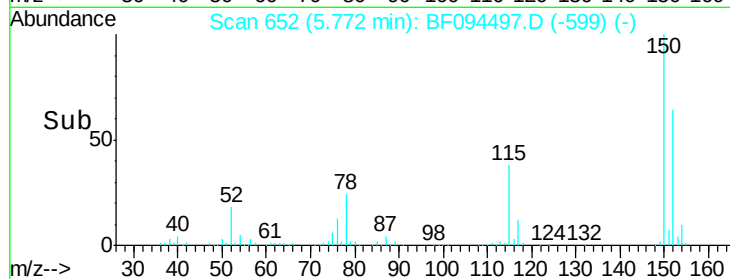
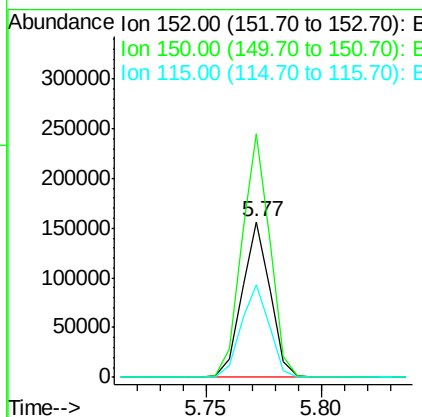
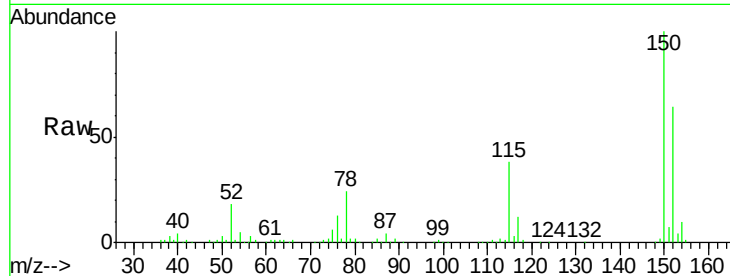
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Instrument :
BNA_F
ClientSampleId :
E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	126.2	189.2
115	59.9	52.2	78.2

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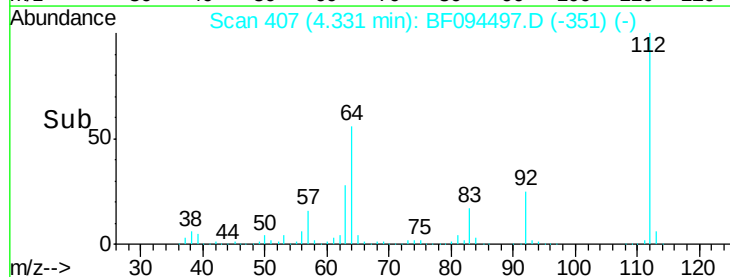
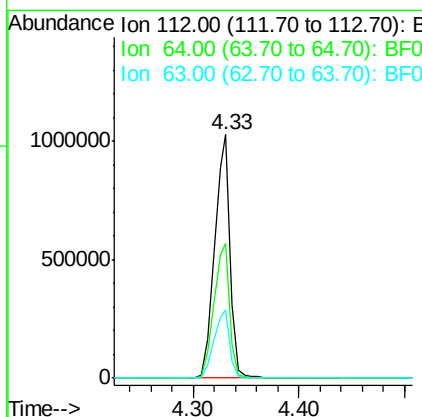
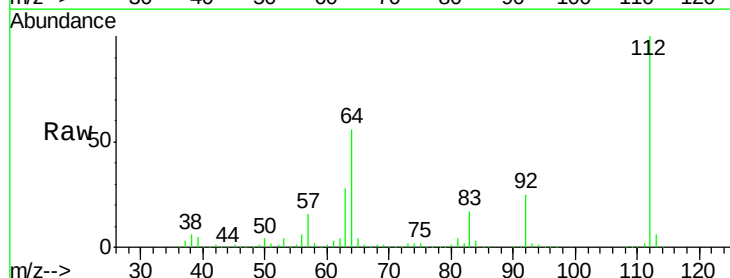
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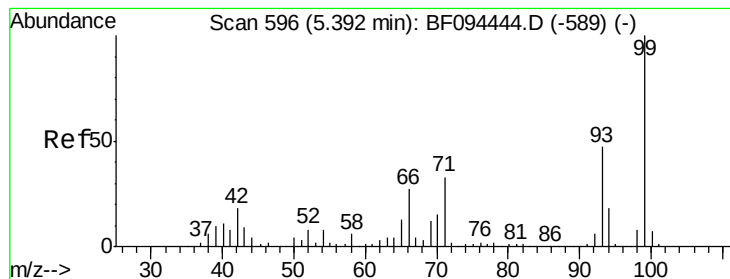


#5

2-Fluorophenol
Concen: 133.65 ng
RT: 4.33 min Scan# 407
Delta R.T. 0.03 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	46.0	69.0
63	27.8	23.4	35.0





#7

Phenol-d6

Concen: 146.66 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Instrument :

BNA_F

ClientSampleId :

E2-XY9-SSW

Tot Ion: 99 Resp: 1374114

Ion Ratio Lower Upper

99 100

42 17.6 13.5 20.3

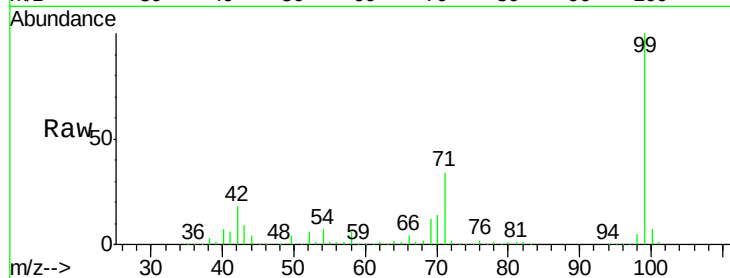
71 33.5 24.5 36.7

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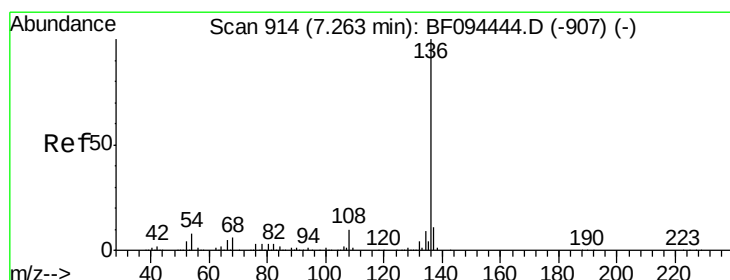
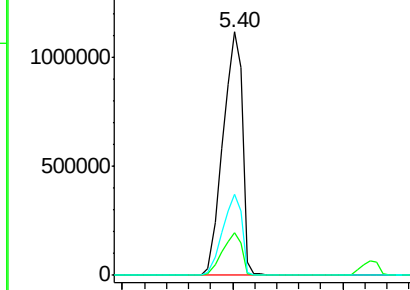
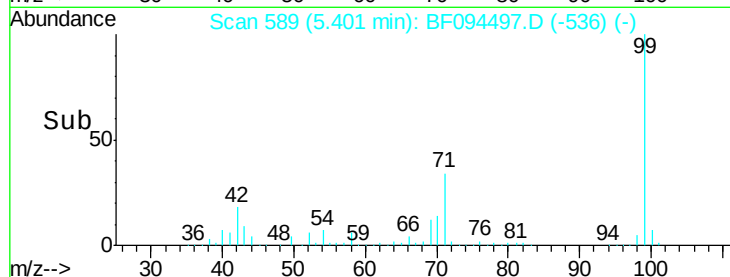
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.27 min Scan# 906

Delta R.T. 0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Tgt Ion: 136 Resp: 523842

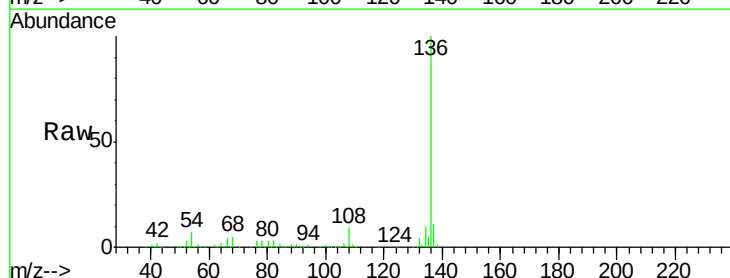
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 6.6 4.9 7.3

68 5.5 4.1 6.1

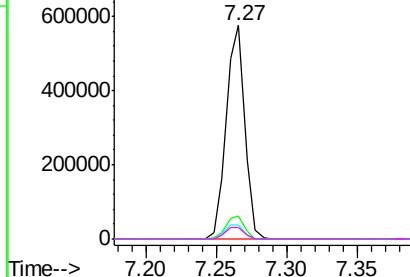
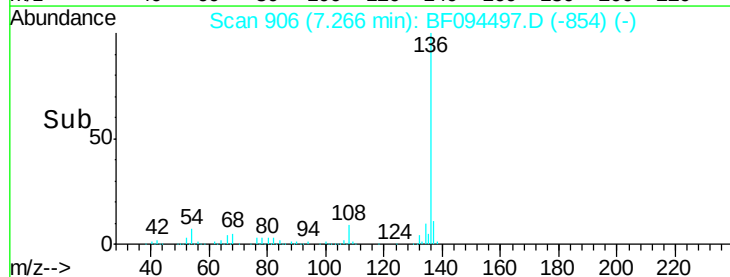


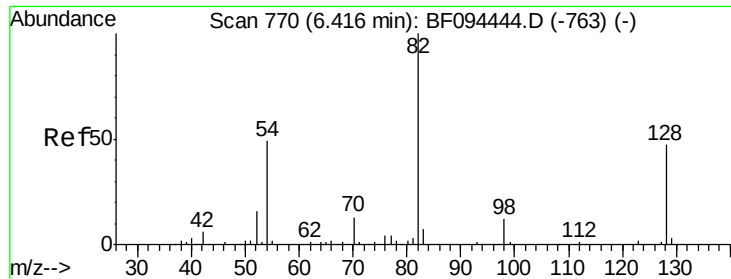
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 99.95 ng

RT: 6.42 min Scan# 763

Delta R.T. 0.01 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Instrument :

BNA_F

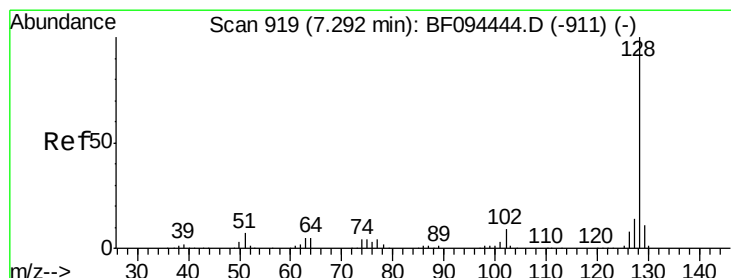
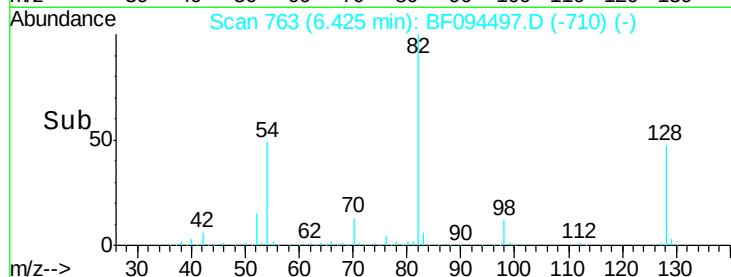
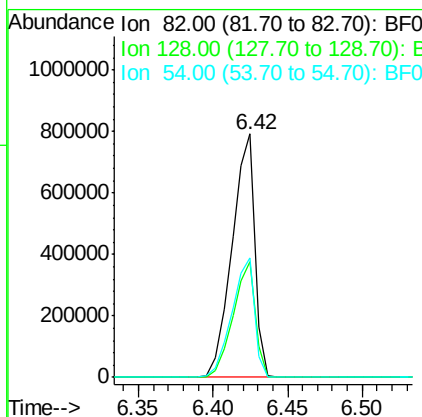
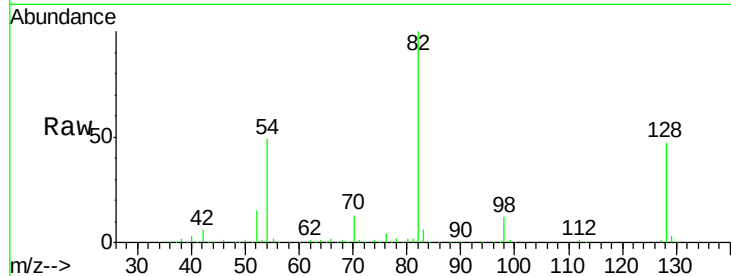
ClientSampleId :

E2-XY9-SSW

Tot Ion:	82	Resp:	847952
Ion Ratio	Lower	Upper	
82	100		
128	47.4	34.0	51.0
54	49.0	42.2	63.2

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#31

Naphthalene

Concen: 2.59 ng

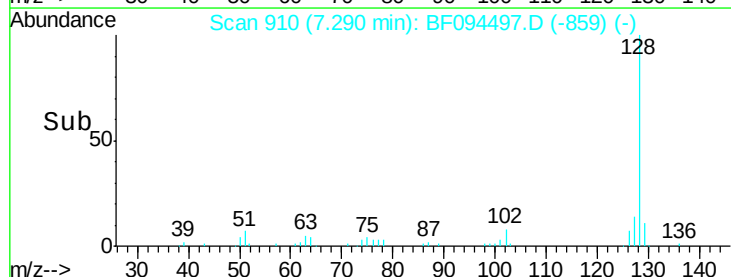
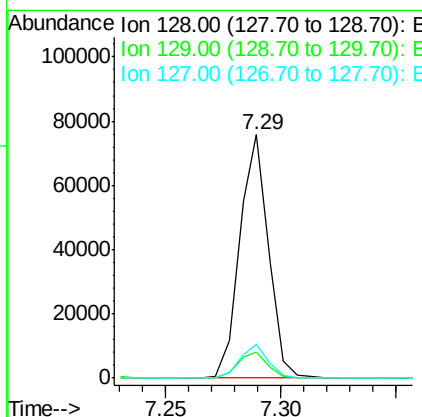
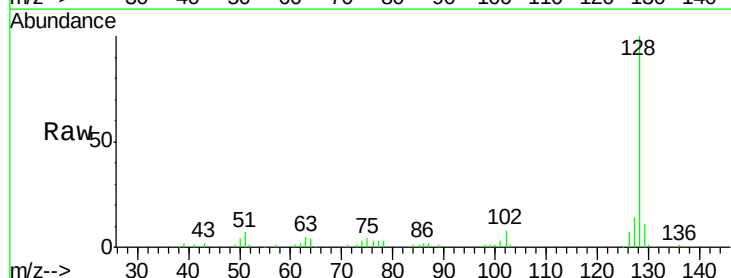
RT: 7.29 min Scan# 910

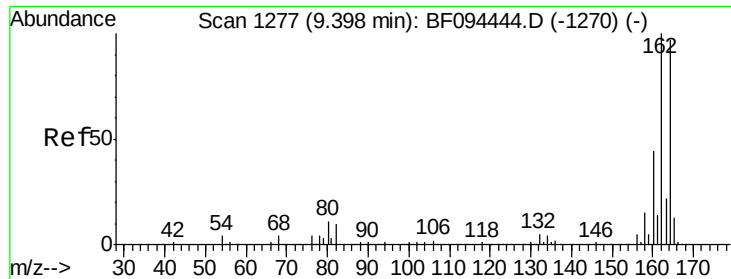
Delta R.T. -0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Tgt Ion:	128	Resp:	65304
Ion Ratio	Lower	Upper	
128	100		
129	10.7	9.0	13.6
127	13.6	10.8	16.2





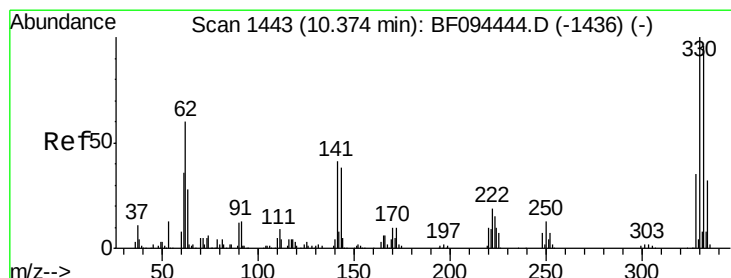
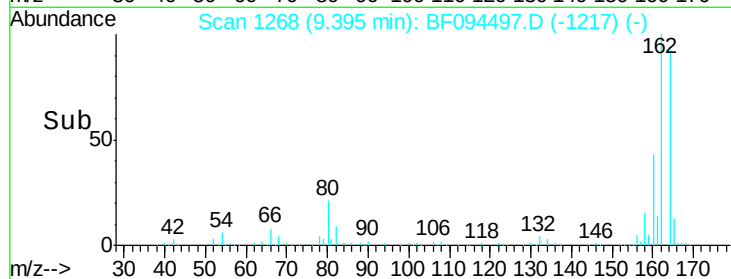
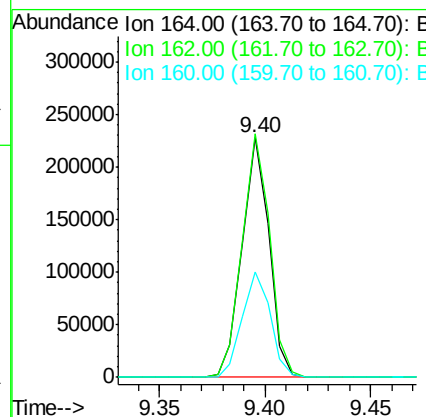
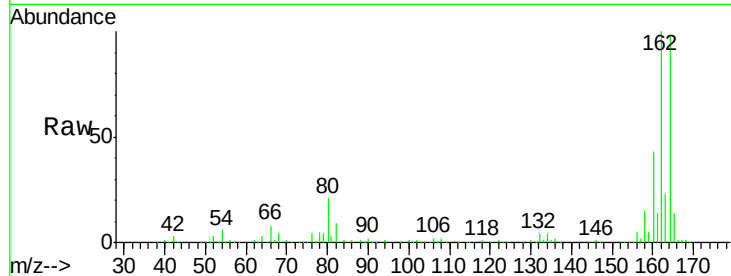
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.40 min Scan# 1268
Delta R.T. -0.00 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Instrument :
BNA_F
ClientSampleId :
E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.6	123.8
160	43.7	36.2	54.2

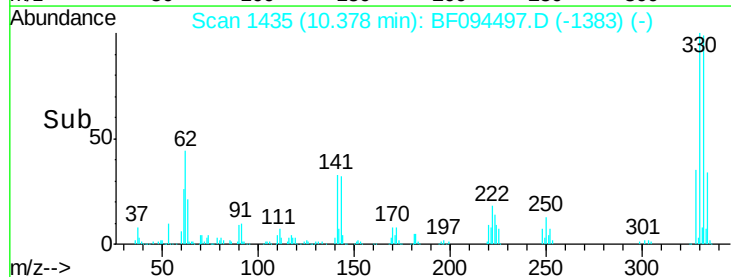
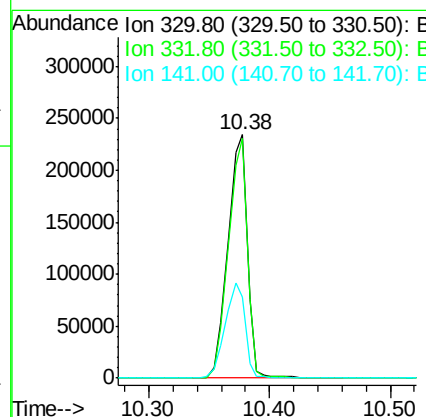
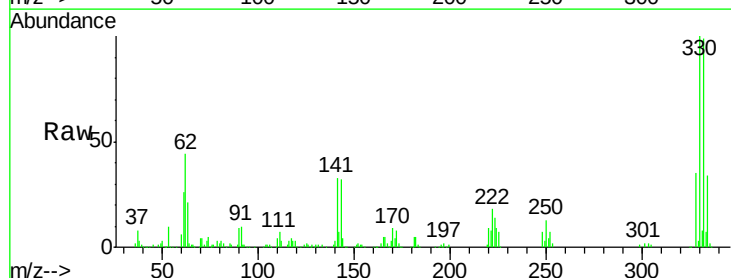
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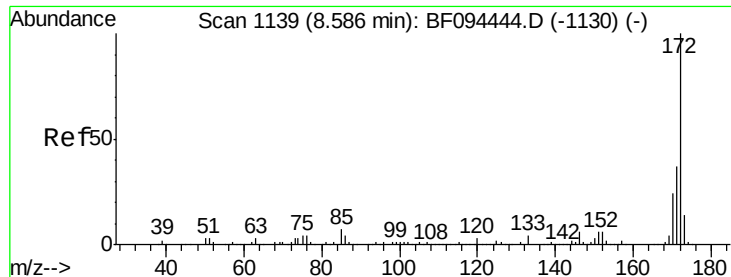
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#41
2,4,6-Tribromophenol
Concen: 167.37 ng
RT: 10.38 min Scan# 1435
Delta R.T. 0.00 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.6	115.0
141	40.1	31.4	47.2





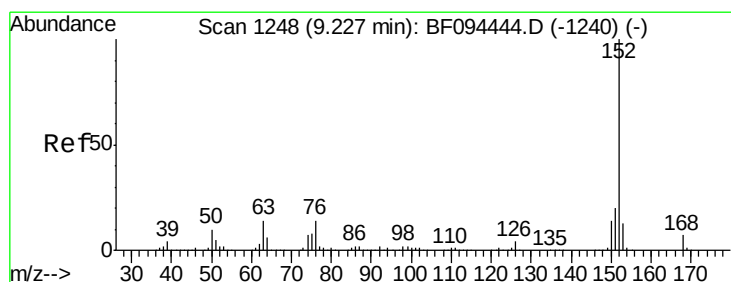
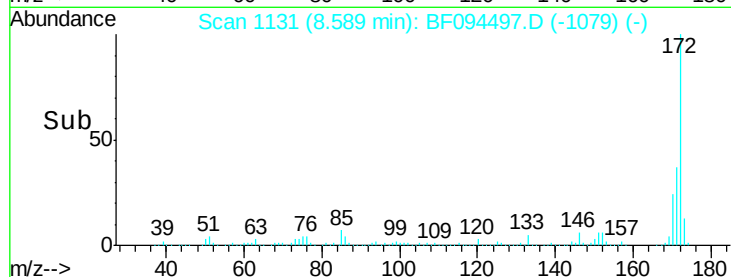
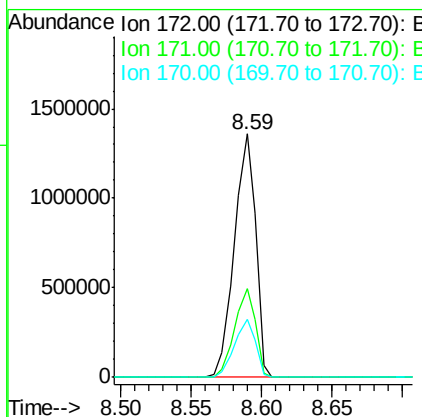
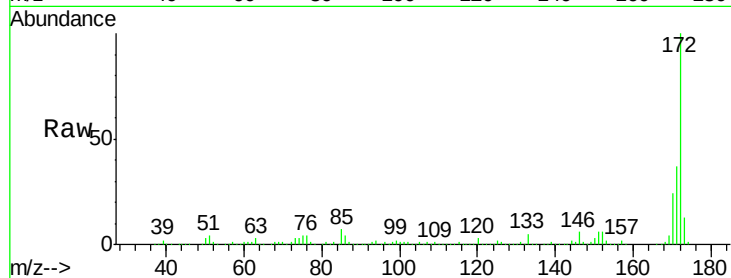
#44
 2-Fluorobiphenyl
 Concen: 104.54 ng
 RT: 8.59 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: BF094497.D
 Acq: 18 Apr 2017 20:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.6	44.4
170	24.0	19.8	29.8

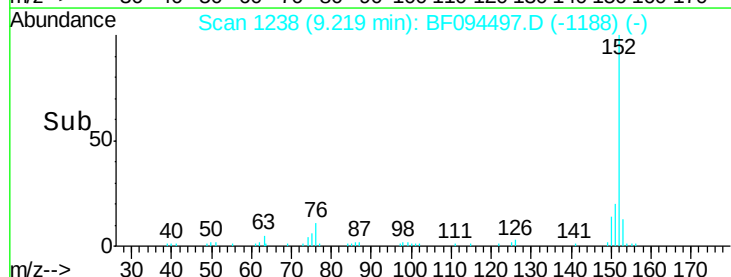
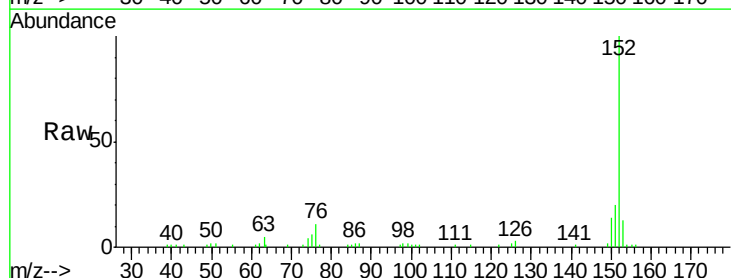
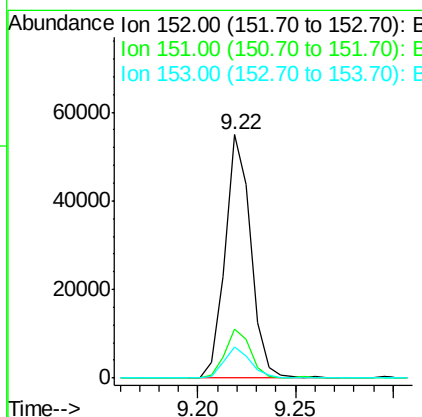
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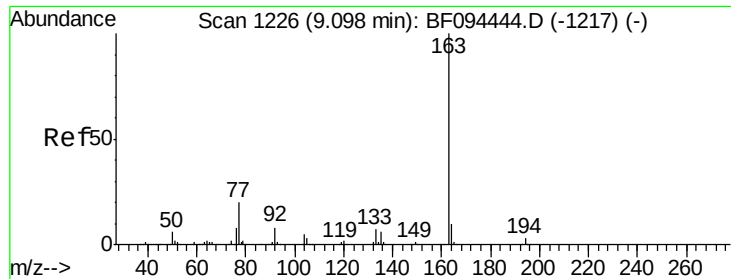
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#48
 Acenaphthylene
 Concen: 2.47 ng
 RT: 9.22 min Scan# 1238
 Delta R.T. -0.01 min
 Lab File: BF094497.D
 Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.8	25.2
153	12.7	10.8	16.2





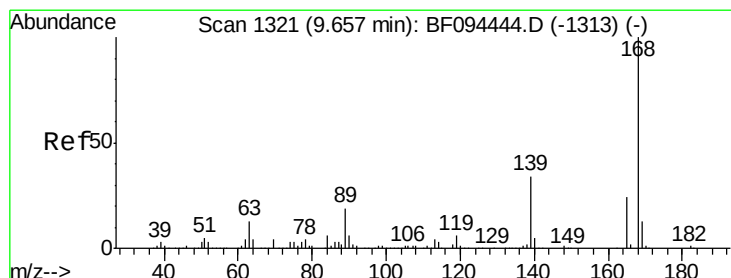
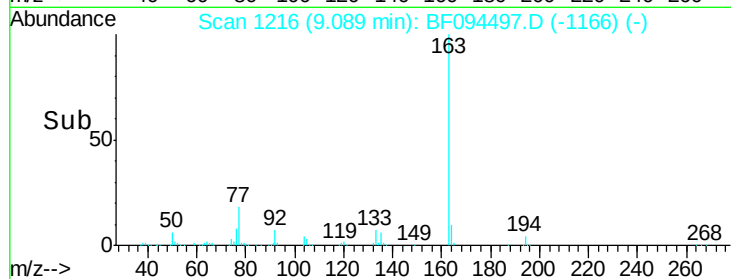
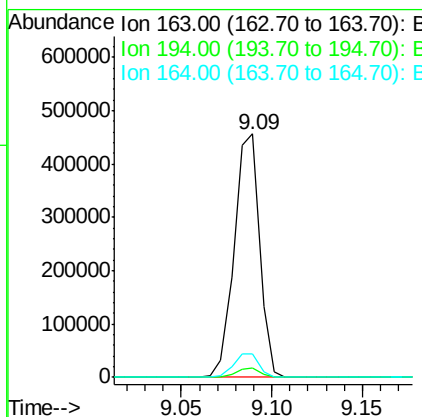
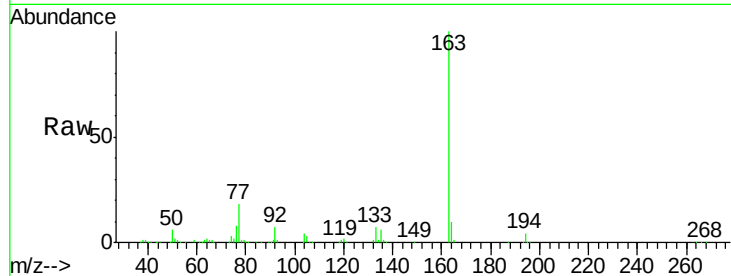
#49
Dimethylphthalate
Concen: 29.85 ng
RT: 9.09 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Instrument :
BNA_F
ClientSampleId :
E2-XY9-SSW

Tot Ion	Ratio	Resp	Lower	Upper
163	100	445903		
194	3.6	2.6	4.0	
164	9.5	8.4	12.6	

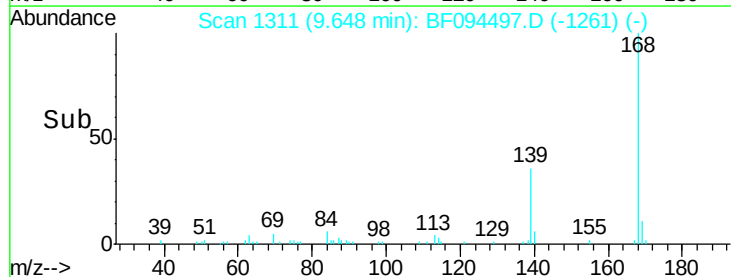
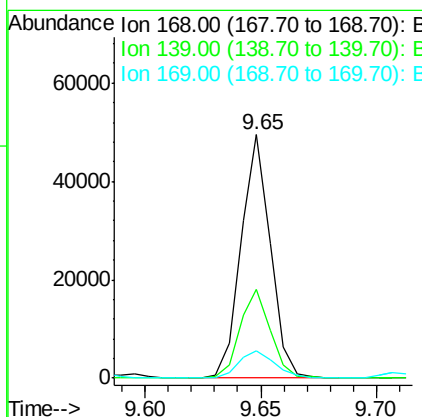
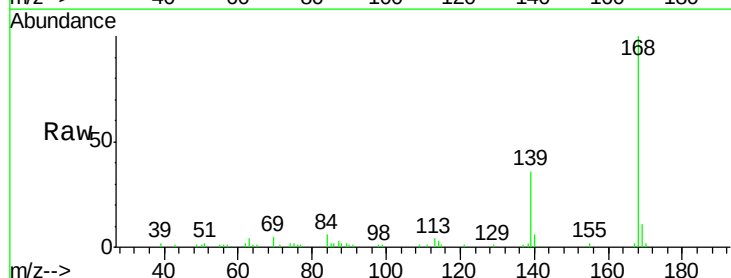
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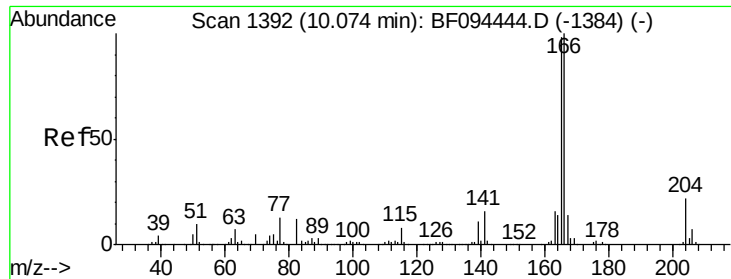
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#54
Dibenzofuran
Concen: 2.48 ng
RT: 9.65 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	43845		
139	36.4	30.6	45.8	
169	11.3	10.8	16.2	





#57

Fluorene

Concen: 2.93 ng

RT: 10.07 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Instrument :

BNA_F

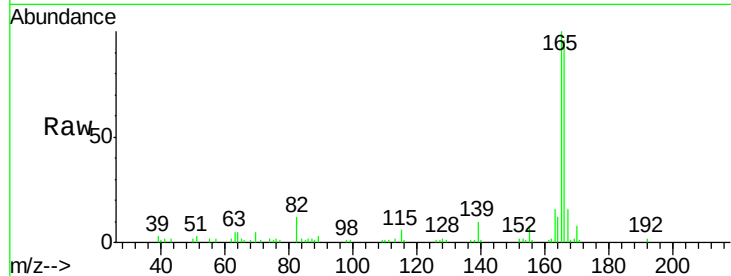
ClientSampleId :

E2-XY9-SSW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	104.7	78.8	118.2		
167	16.6	10.6	16.0#		

Manual Integrations
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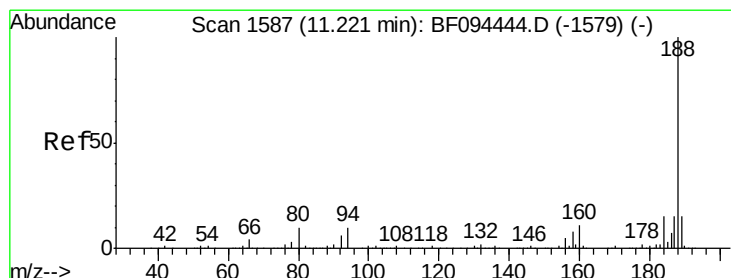
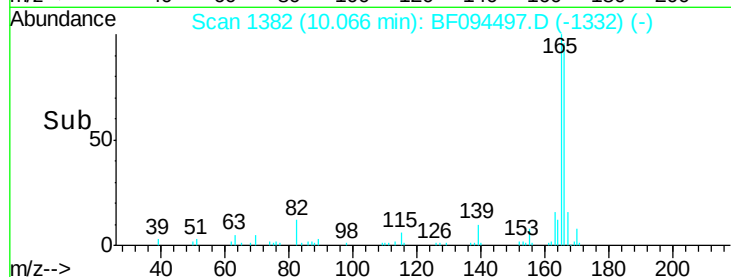
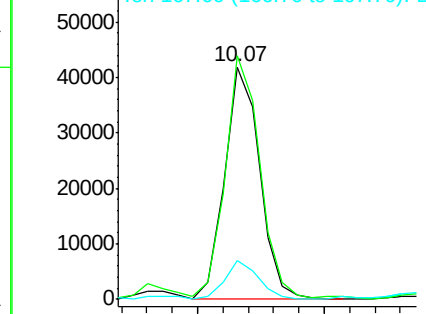
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

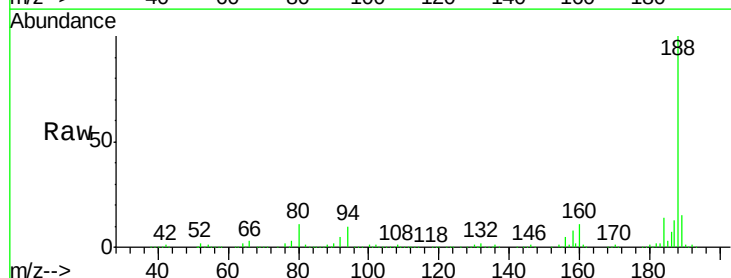
RT: 11.22 min Scan# 1578

Delta R.T. -0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

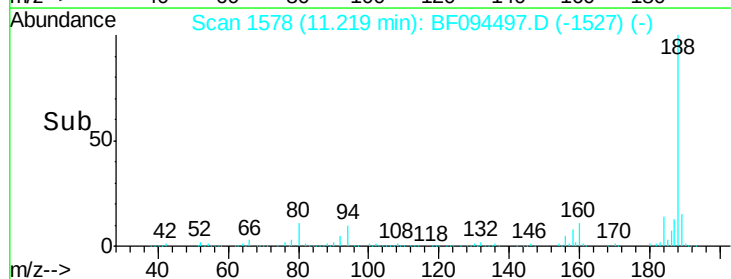
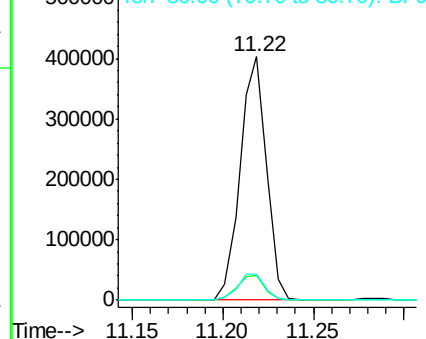
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	10.0	9.4	14.2		
80	10.7	10.2	15.2		

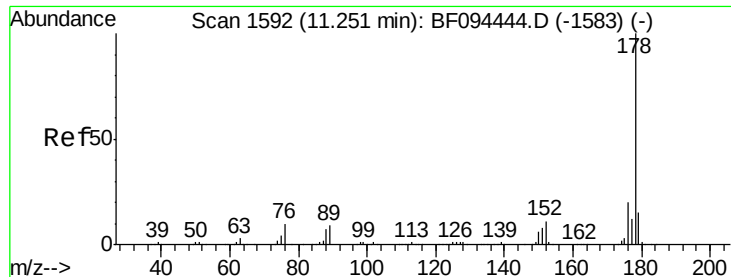


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 26.91 ng

RT: 11.25 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Instrument :

BNA_F

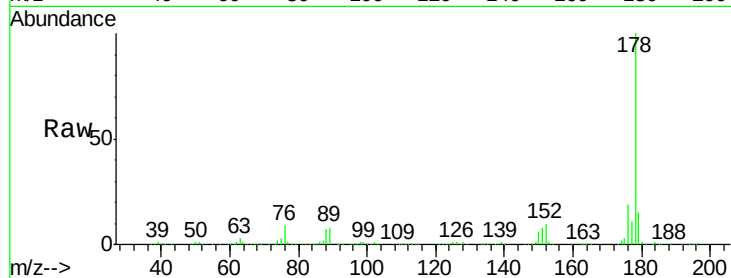
ClientSampleId :

E2-XY9-SSW

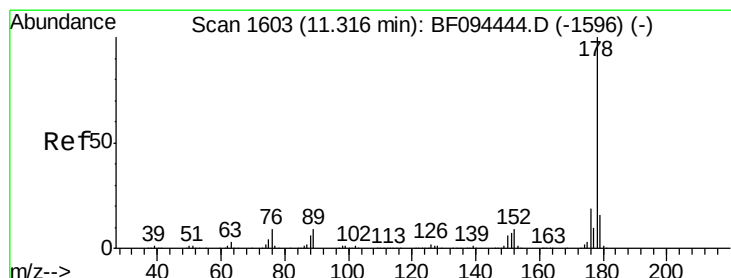
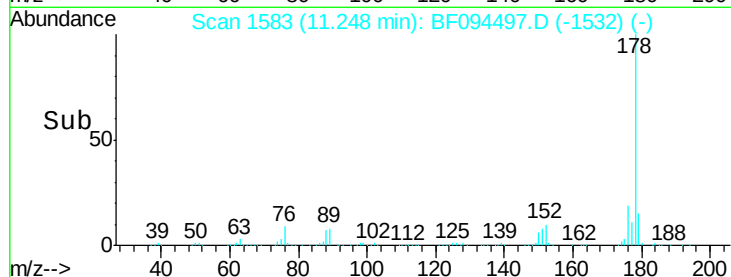
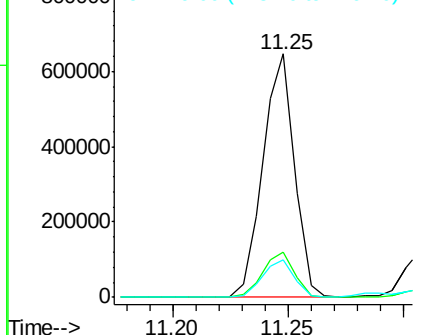
Tot Ion:178	Resp:	612722
Ion Ratio	Lower	Upper
178	100	
176	18.8	16.2 24.4
179	15.3	12.6 19.0

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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



#71

Anthracene

Concen: 4.75 ng

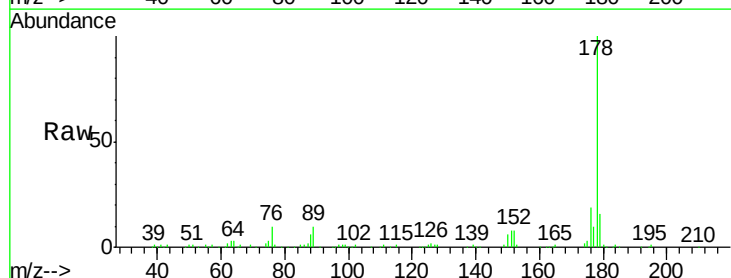
RT: 11.31 min Scan# 1593

Delta R.T. -0.01 min

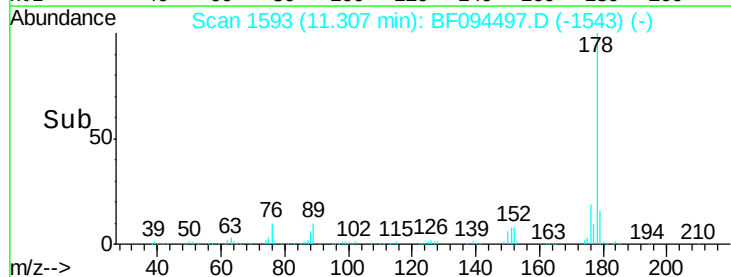
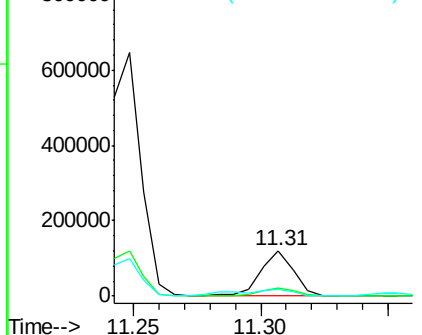
Lab File: BF094497.D

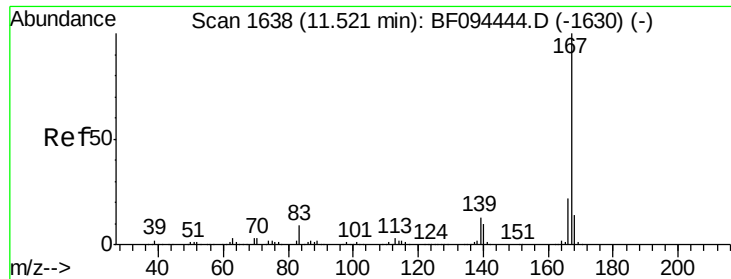
Acq: 18 Apr 2017 20:15

Tgt Ion:178	Resp:	111851
Ion Ratio	Lower	Upper
178	100	
176	18.8	15.8 23.8
179	15.7	12.7 19.1



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





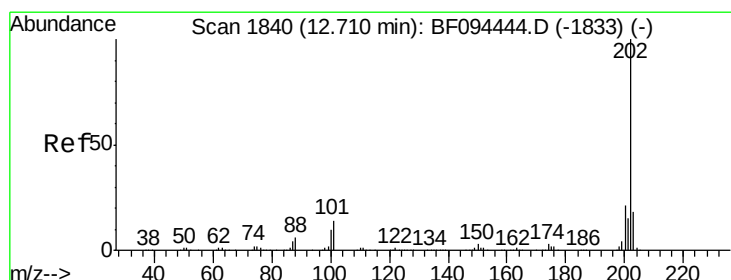
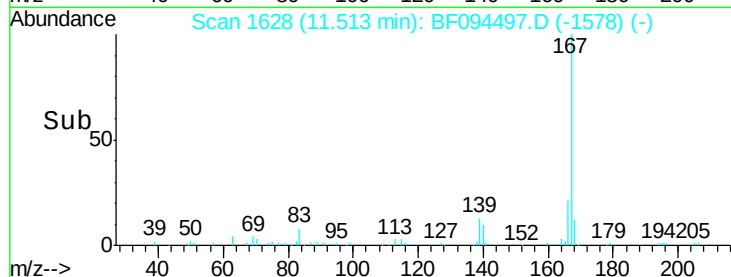
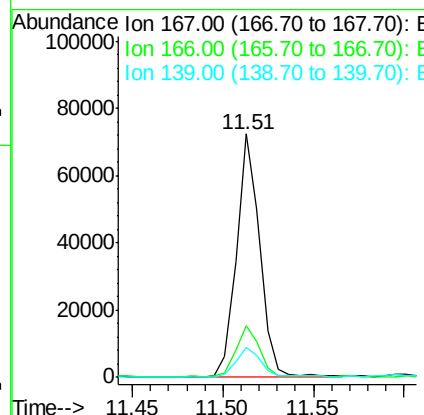
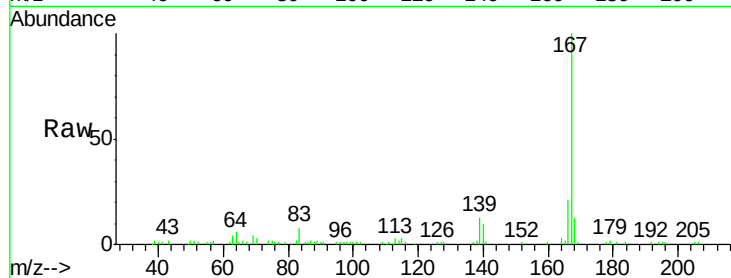
#72
 Carbazole
 Concen: 2.94 ng
 RT: 11.51 min Scan# 1628
 Delta R.T. -0.01 min
 Lab File: BF094497.D
 Acq: 18 Apr 2017 20:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.2	18.1	27.1
139	12.5	11.7	17.5

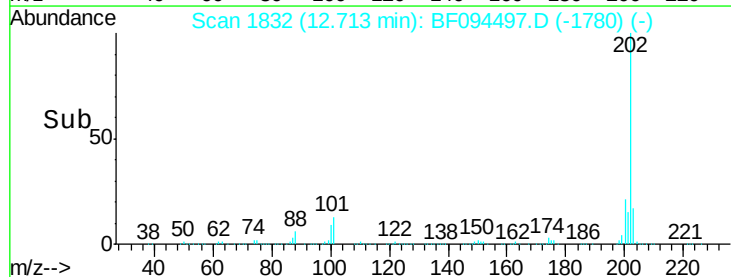
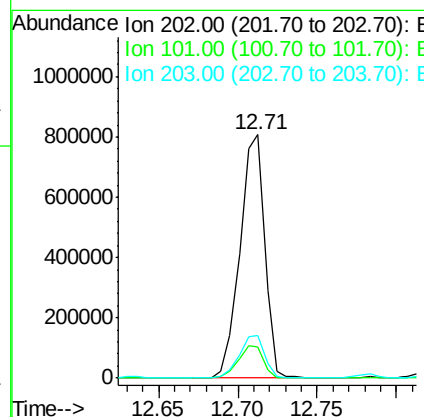
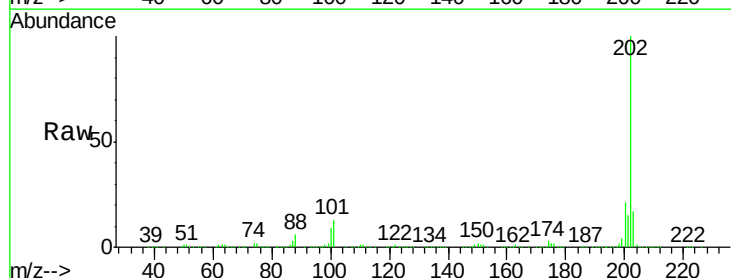
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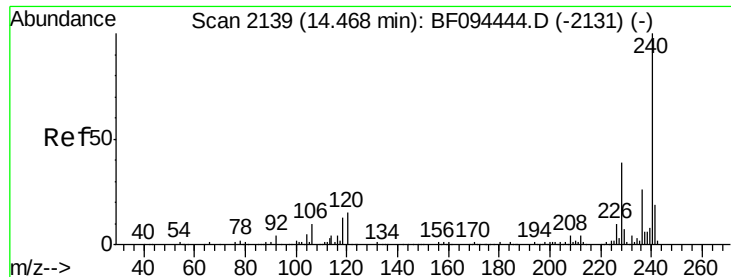
mohammad
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#74
 Fluoranthene
 Concen: 37.08 ng
 RT: 12.71 min Scan# 1832
 Delta R.T. 0.00 min
 Lab File: BF094497.D
 Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	33.2
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.47 min Scan# 2130

Delta R.T. -0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Instrument :

BNA_F

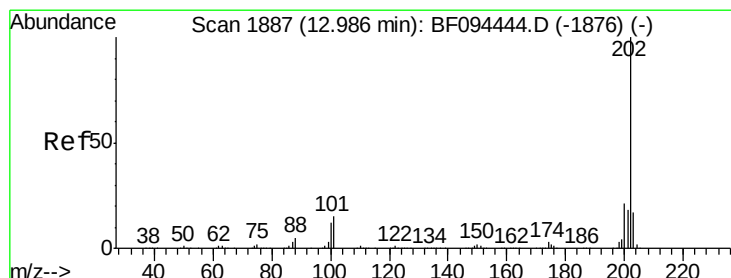
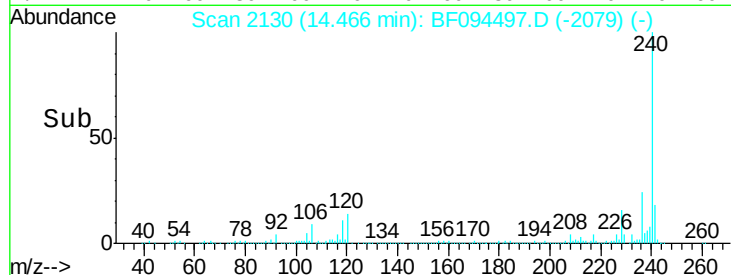
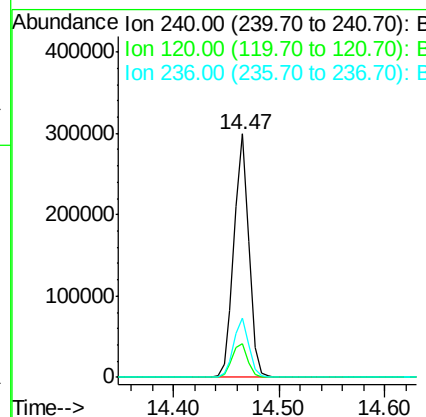
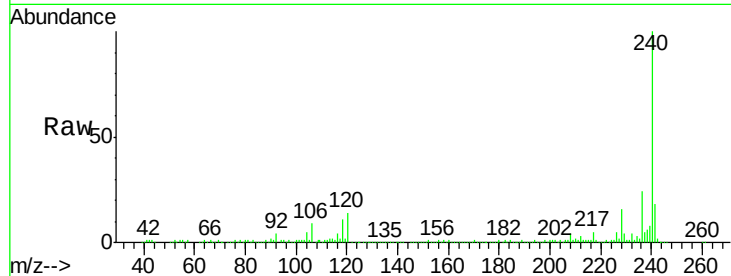
ClientSampleId :

E2-XY9-SSW

Tot Ion	Ratio	Resp	Lower	Upper
240	100	294043		
120	13.7	5.8	8.8#	
236	24.3	20.5	30.7	

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#77

Pyrene

Concen: 38.00 ng

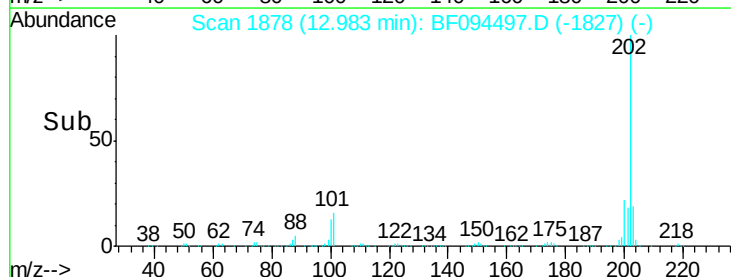
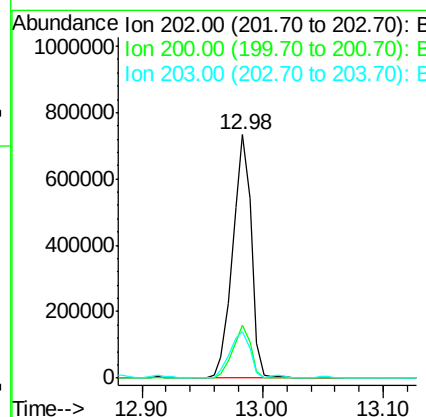
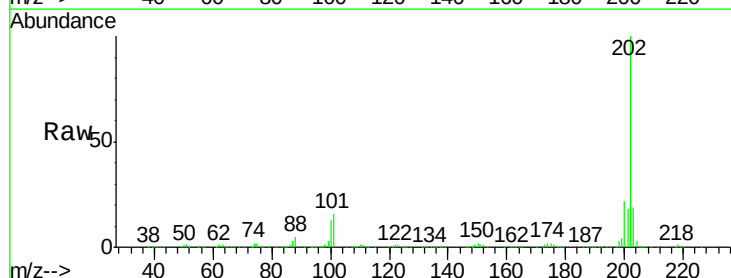
RT: 12.98 min Scan# 1878

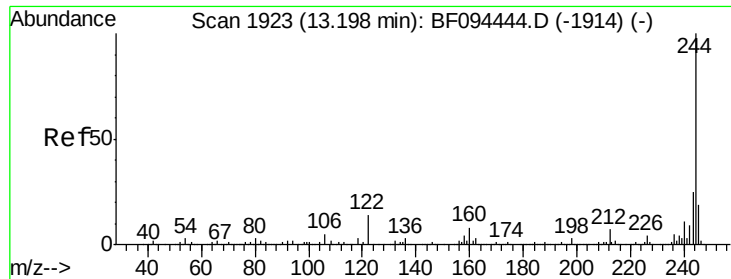
Delta R.T. -0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	780606		
200	21.6	17.6	26.4	
203	19.2	14.4	21.6	





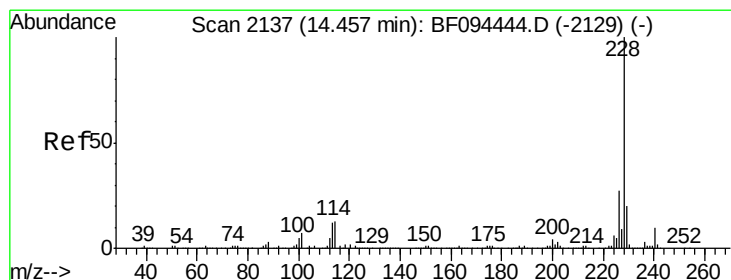
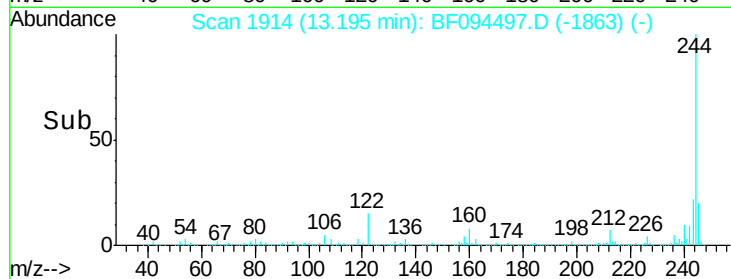
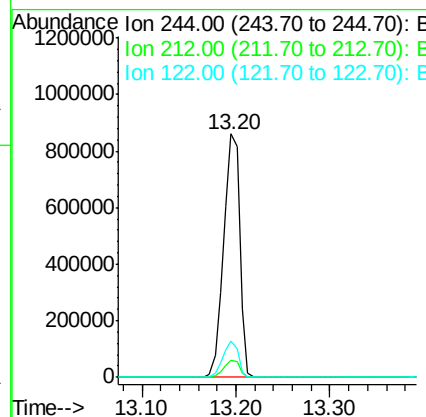
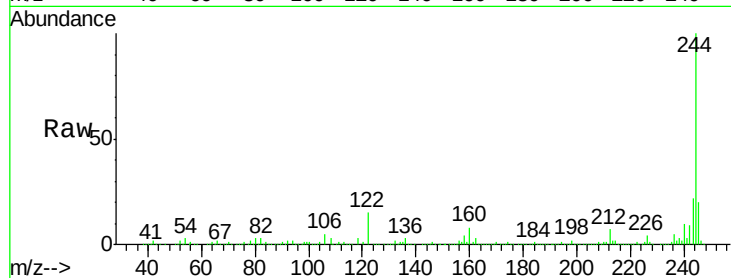
#78
 Terphenyl-d14
 Concen: 94.18 ng
 RT: 13.20 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: BF094497.D
 Acq: 18 Apr 2017 20:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	14.8	10.3	15.5

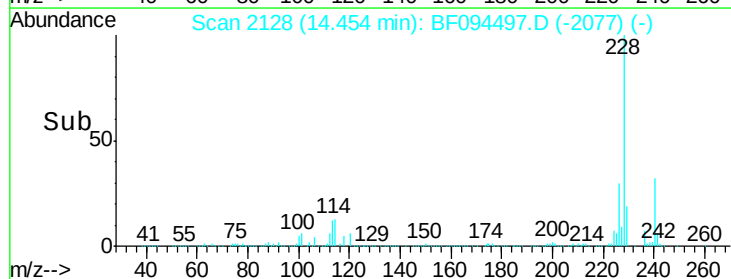
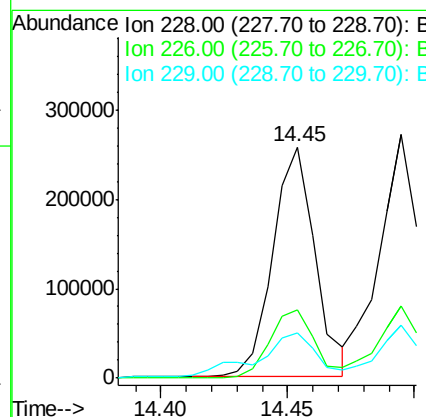
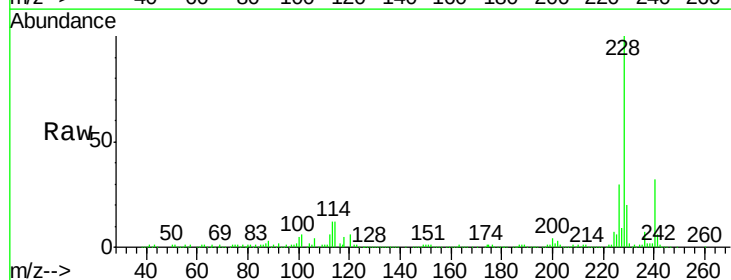
Manual Integrations
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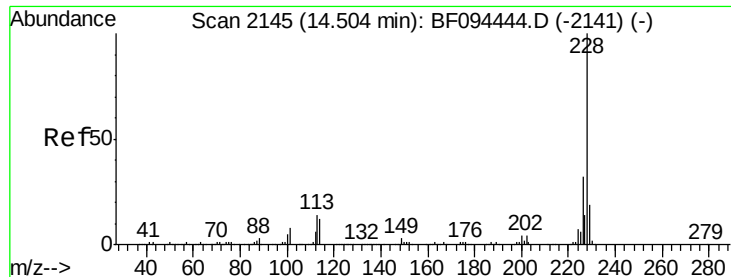
mohammad
 4/19/2017 1:33:27 PM



#80
 Benzo(a)anthracene
 Concen: 17.50 ng
 RT: 14.45 min Scan# 2128
 Delta R.T. -0.00 min
 Lab File: BF094497.D
 Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.6	33.8
229	19.5	16.3	24.5





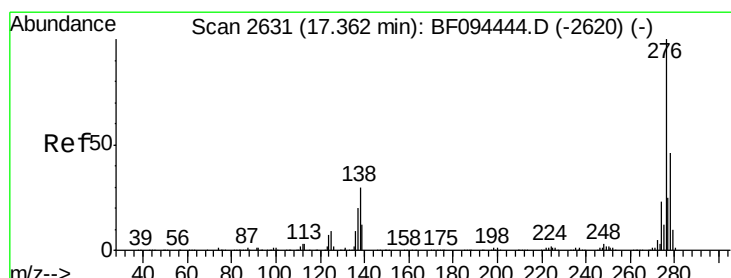
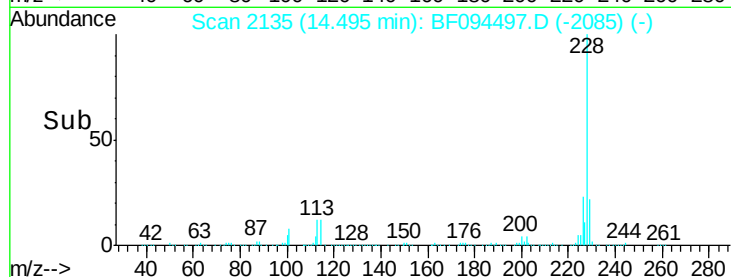
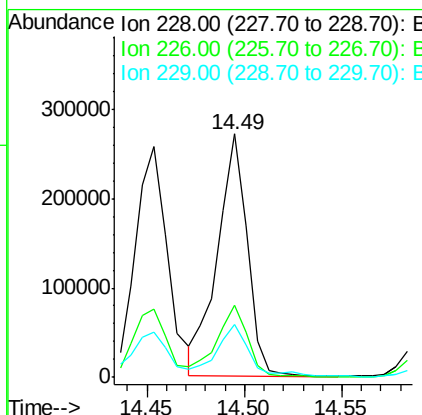
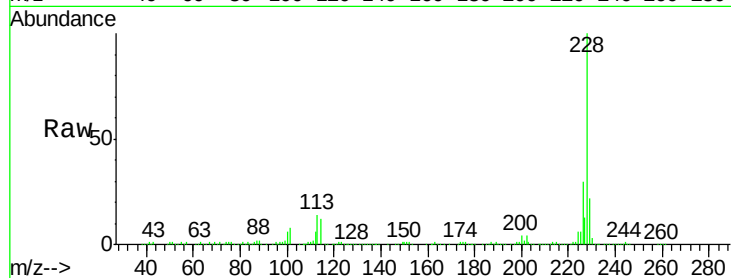
#82
Chrysene
Concen: 18.58 ng
RT: 14.49 min Scan# 2135
Delta R.T. -0.01 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Instrument :
BNA_F
ClientSampleId :
E2-XY9-SSW

Tot Ion:228	Resp:	290281
Ion Ratio	Lower	Upper
228 100		
226 29.7	24.9	37.3
229 21.6	15.8	23.6

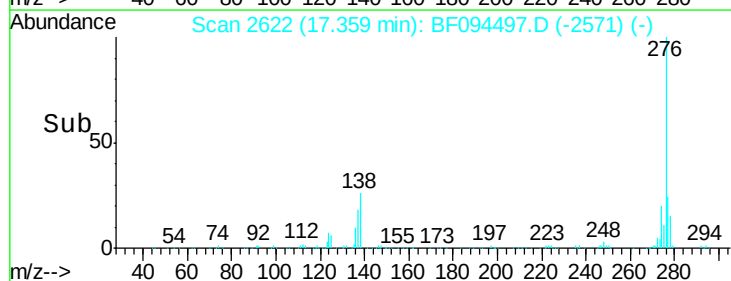
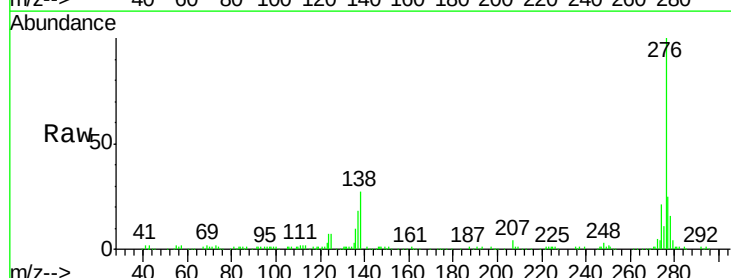
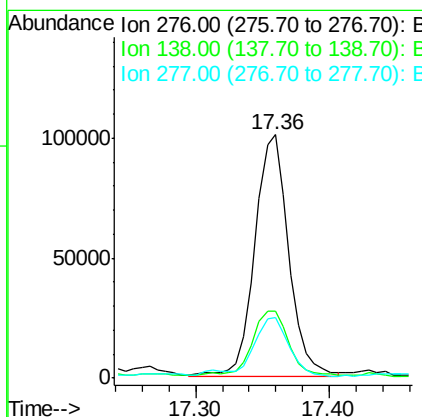
Manual Integrations
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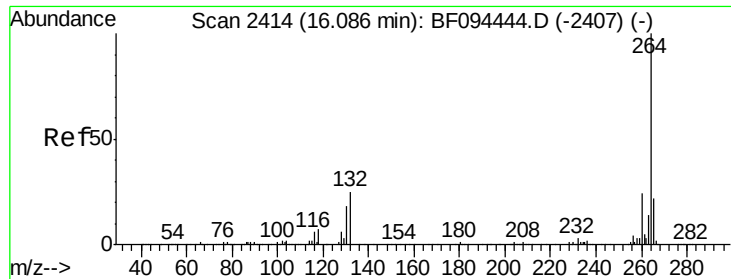
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 11.98 ng
RT: 17.36 min Scan# 2622
Delta R.T. -0.00 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Tgt Ion:276	Resp:	178035
Ion Ratio	Lower	Upper
276 100		
138 30.2	27.8	41.6
277 23.8	20.2	30.4





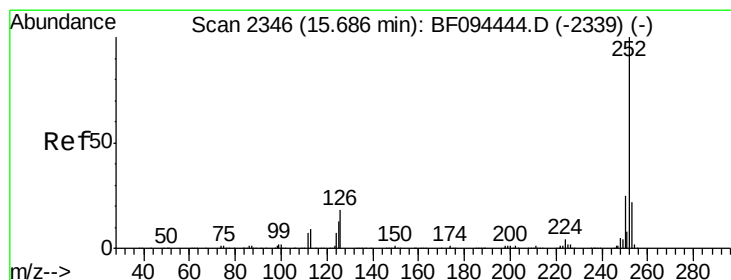
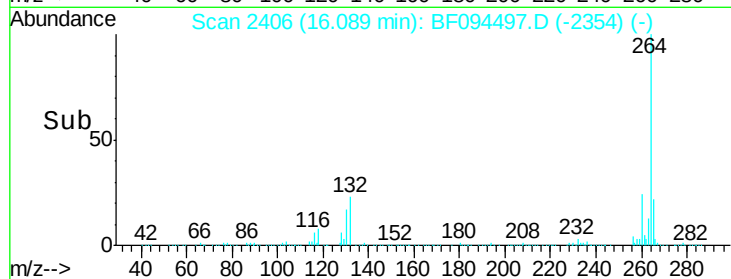
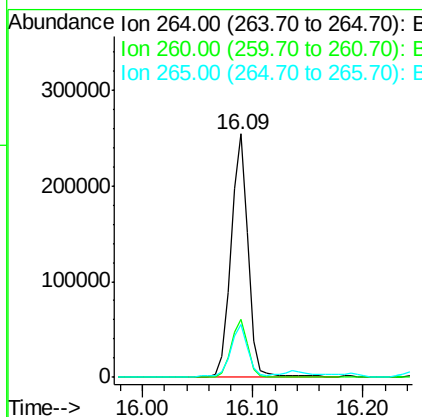
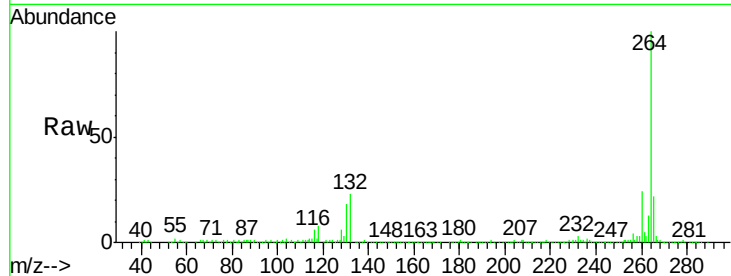
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.09 min Scan# 2406
Delta R.T. 0.00 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Instrument :
BNA_F
ClientSampleId :
E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	21.8	17.2	25.8

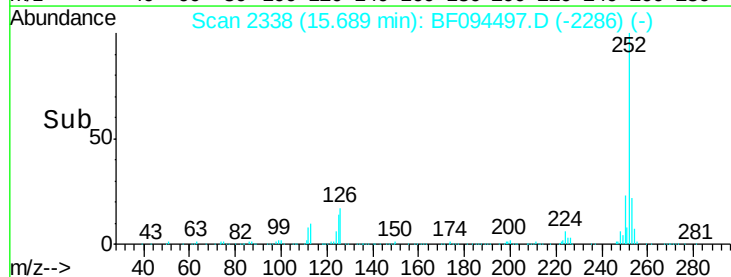
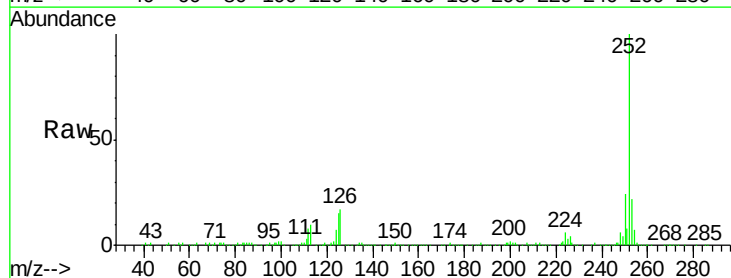
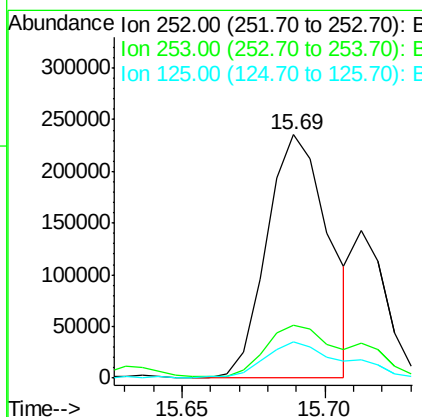
Manual Integrations
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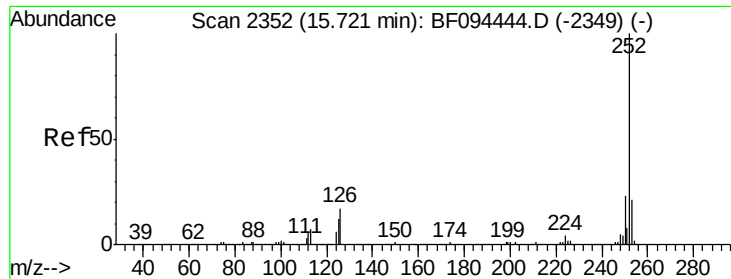
mohammad
4/19/2017 1:33:27 PM



#87
Benzo(b)fluoranthene
Concen: 21.10 ng m
RT: 15.69 min Scan# 2338
Delta R.T. 0.00 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	14.8	9.8	14.8#





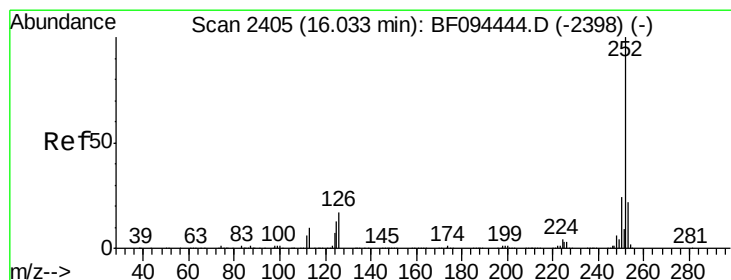
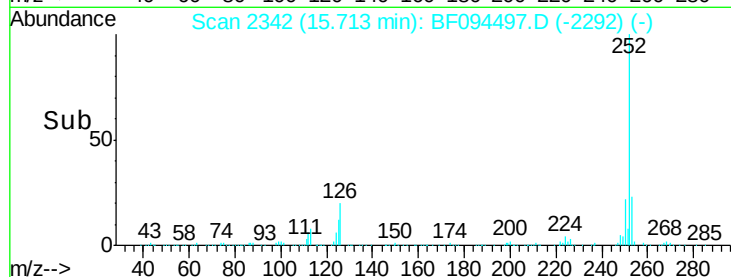
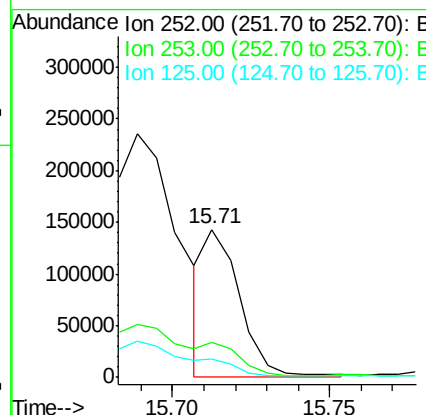
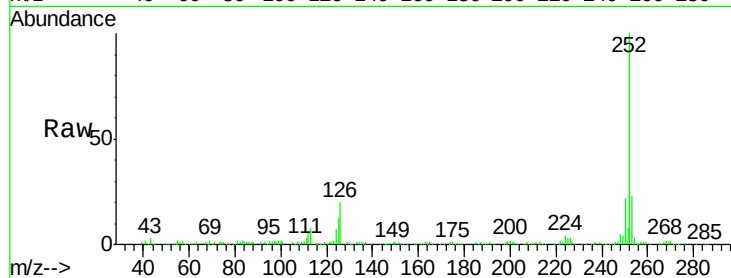
#88
Benzo(k)fluoranthene
Concen: 7.12 ng m
RT: 15.71 min Scan# 2342
Delta R.T. -0.01 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Instrument :
BNA_F
ClientSampleId :
E2-XY9-SSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	12.6	13.1	19.7

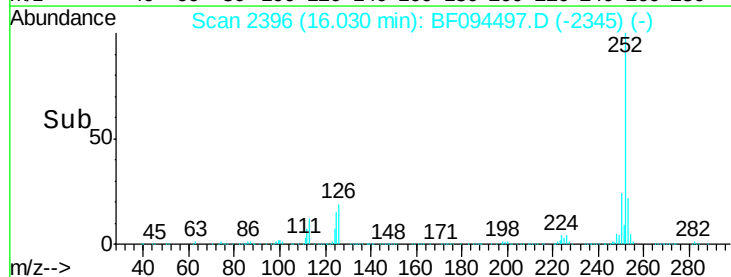
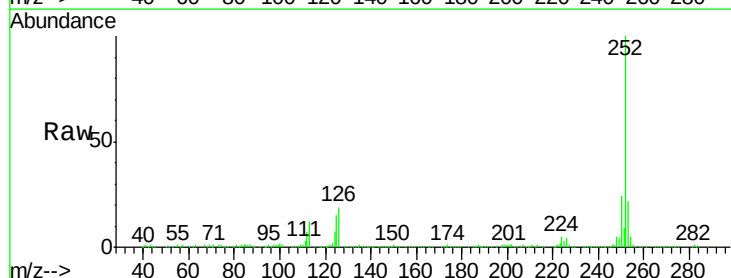
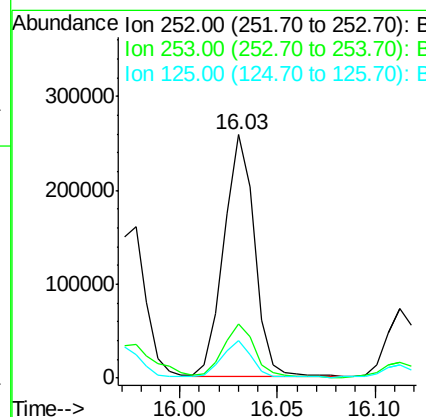
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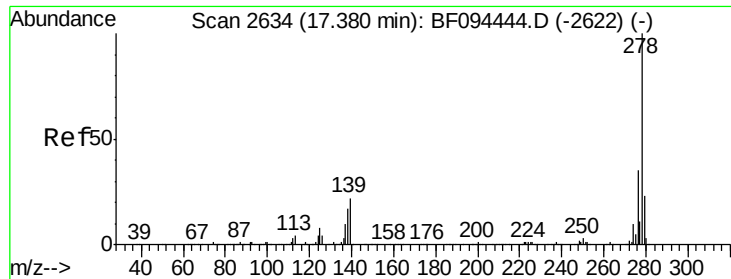
mohammad
4/19/2017 1:33:27 PM



#89
Benzo(a)pyrene
Concen: 17.74 ng
RT: 16.03 min Scan# 2396
Delta R.T. -0.00 min
Lab File: BF094497.D
Acq: 18 Apr 2017 20:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	15.3	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.04 ng/mL

RT: 17.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Instrument :

BNA_F

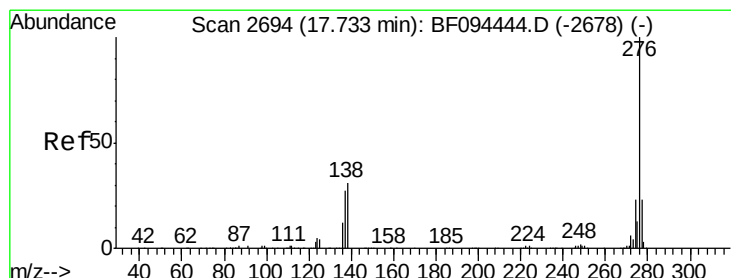
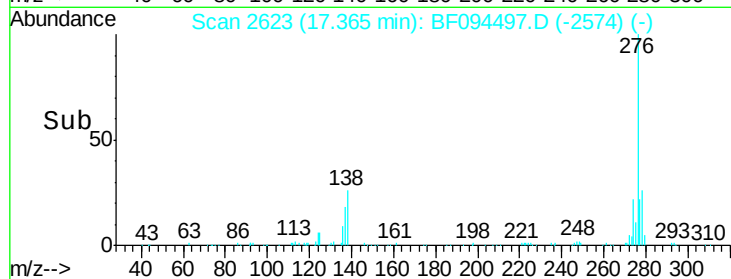
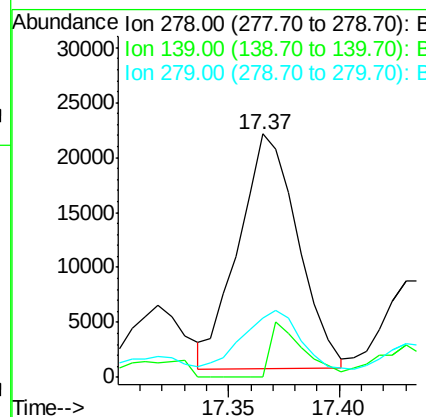
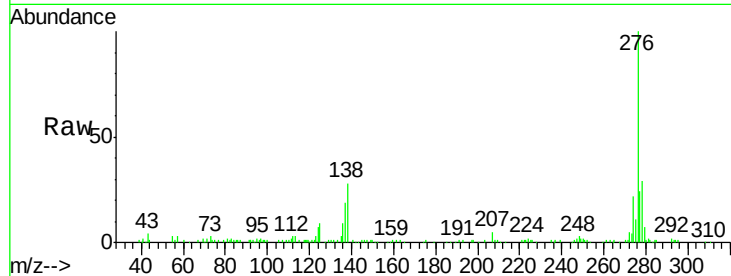
ClientSampleId :

E2-XY9-SSW

Tot Ion:	278	Resp:	39870
Ion Ratio	Lower	Upper	
278	100		
139	0.0	16.6	24.8#
279	24.1	19.3	28.9

Manual Integrations
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mohammad
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#91

Benzo(g,h,i)perylene

Concen: 12.35 ng/mL

RT: 17.73 min Scan# 2685

Delta R.T. -0.00 min

Lab File: BF094497.D

Acq: 18 Apr 2017 20:15

Tgt Ion:	276	Resp:	165023
Ion Ratio	Lower	Upper	
276	100		
277	23.9	18.6	28.0
138	29.4	25.4	38.0

