

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101437.D
 Acq On : 15 Dec 2017 11:32
 Operator : SJ/JU
 Sample : I6828-01DL 2X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DBWW-2-0-4DL

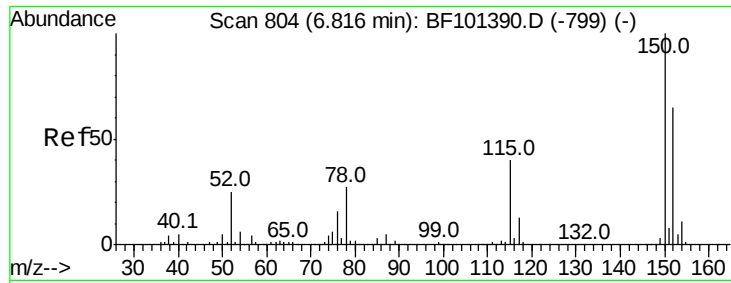
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 12/15/2017 6:45:37 PM

Quant Time: Dec 15 13:46:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	170410	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	671778	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	281397	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	438436	20.00	ng	0.00
75) Chrysene-d12	14.01	240	242312	20.00	ng	0.00
86) Perylene-d12	15.50	264	259105	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	634099	55.43	ng	0.00
7) Phenol-d6	6.45	99	785463	55.17	ng	0.00
23) Nitrobenzene-d5	7.38	82	444166	36.81	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	134026	49.43	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	695868	38.36	ng	0.00
78) Terphenyl-d14	12.93	244	427303	42.51	ng	0.00
Target Compounds						
10) Phenol	6.47	94	32902	2.028	ng	Qvalue # 57
31) Naphthalene	8.12	128	108530	3.209	ng	98
36) 4-Chloro-3-methylphenol	8.67	107	75490	7.132	ng	97
49) Dimethylphthalate	9.57	163	64083	2.831	ng	# 99
51) Acenaphthene	9.89	154	75772	4.182	ng	98
54) Dibenzofuran	10.06	168	74345	3.229	ng	98
57) Fluorene	10.40	166	99454	5.105	ng	98
70) Phenanthrene	11.37	178	783513	32.135	ng	100
71) Anthracene	11.42	178	202198	8.119	ng	97
72) Carbazole	11.58	167	108587	4.657	ng	# 96
74) Fluoranthene	12.57	202	854720	33.397	ng	98
77) Pylene	12.80	202	748582	41.164	ng	99
80) Benzo(a)anthracene	14.00	228	331208	20.700	ng	97
82) Chrysene	14.03	228	291268	19.280	ng	97
83) Bis(2-ethylhexyl)phthalate	13.96	149	69428	6.661	ng	# 92
85) Indeno(1,2,3-cd)pyrene	16.99	276	208451m	15.495	ng	
87) Benzo(b)fluoranthene	15.06	252	376704m	23.853	ng	
88) Benzo(k)fluoranthene	15.09	252	118796m	7.737	ng	
89) Benzo(a)pyrene	15.44	252	248379	17.060	ng	# 84
90) Dibenzo(a,h)anthracene	16.99	278	47848	3.828	ng	# 61
91) Benzo(g,h,i)perylene	17.44	276	194956	15.751	ng	97

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



#1

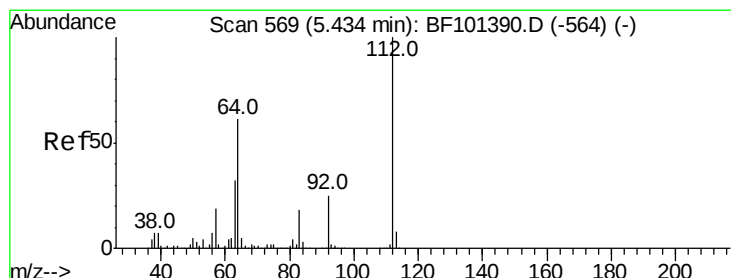
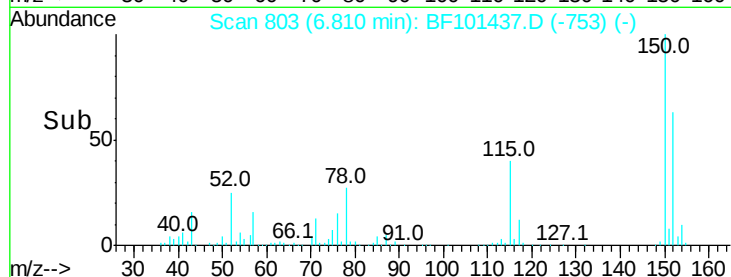
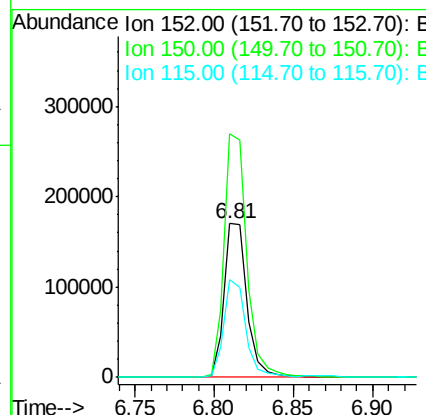
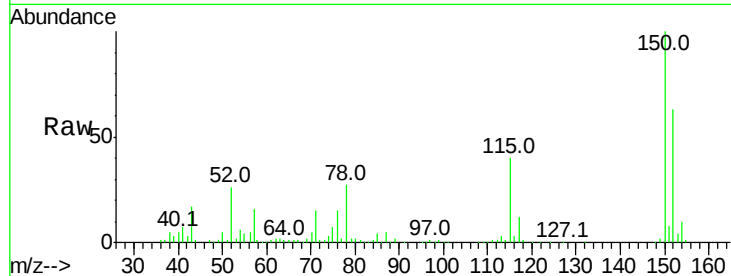
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	124.6	186.8
115	63.1	50.1	75.1

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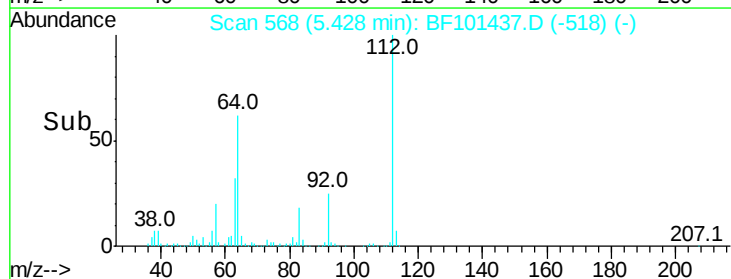
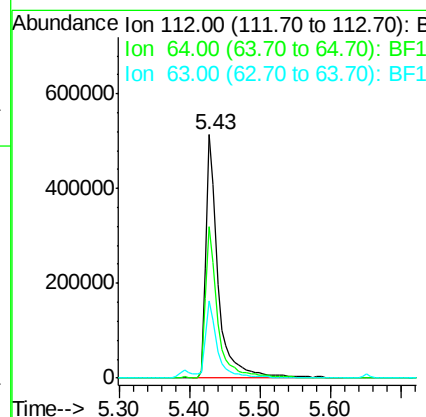
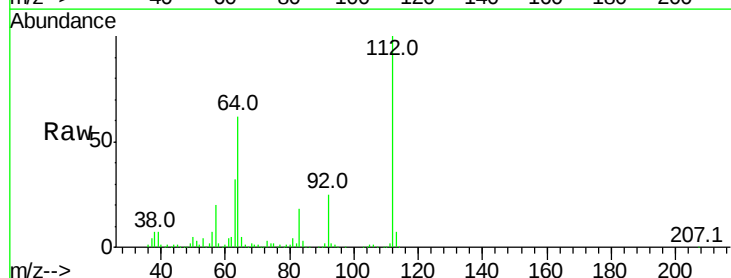
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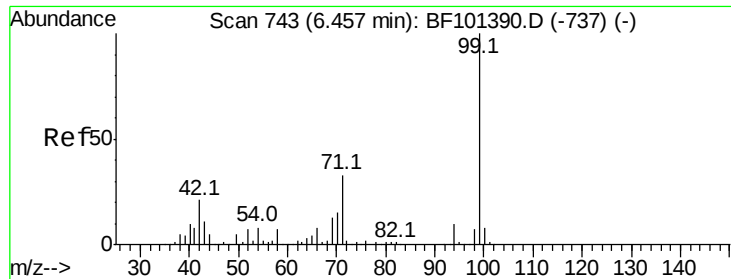


#5

2-Fluorophenol
Concen: 55.428 ng
RT: 5.43 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.3	47.9	71.9
63	31.9	23.7	35.5





#7

Phenol-d6

Concen: 55.168 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

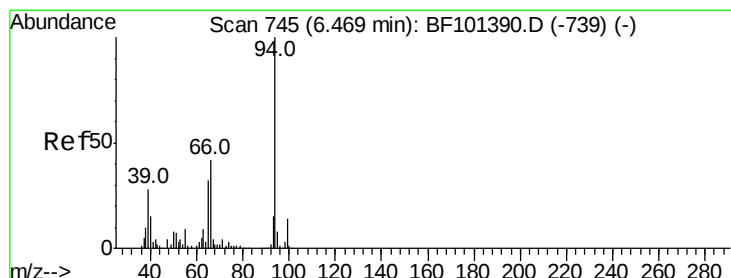
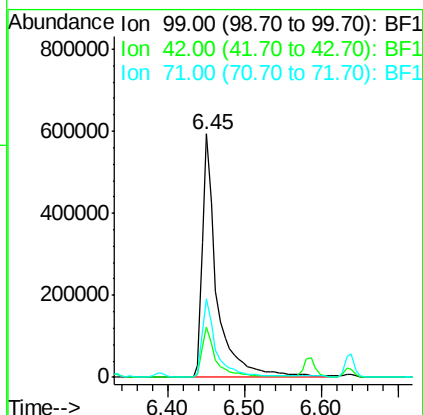
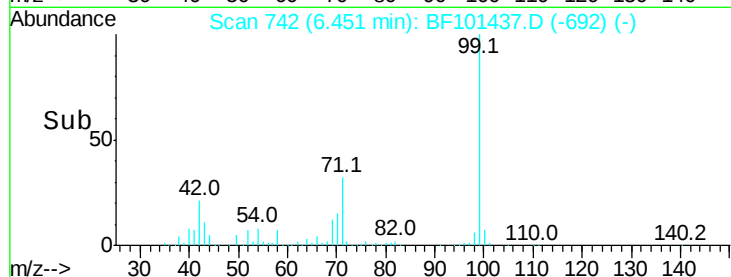
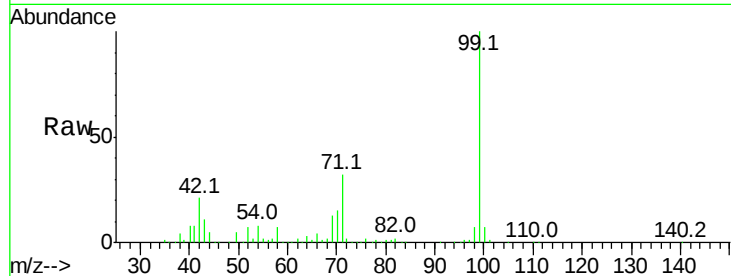
ClientSampleId :

DBWW-2-0-4DL

Tot Ion:	99	Resp:	785463
Ion Ratio	Lower	Upper	
99	100		
42	20.8	14.5	21.7
71	32.3	25.4	38.0

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#10

Phenol

Concen: 2.028 ng

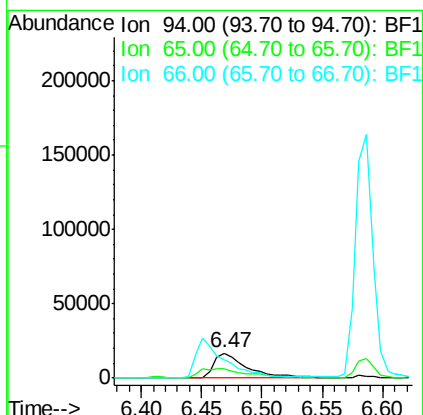
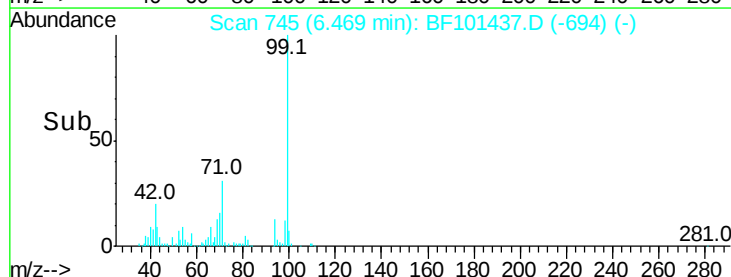
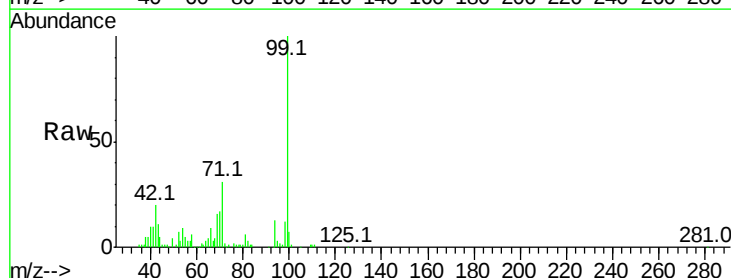
RT: 6.47 min Scan# 745

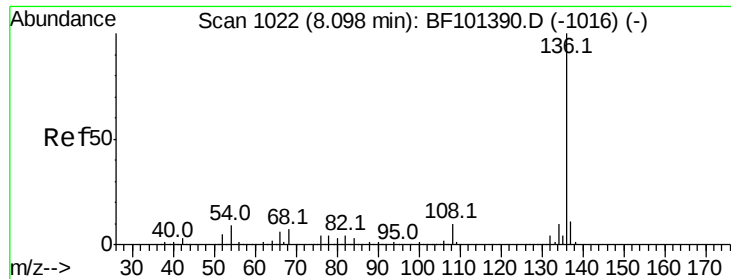
Delta R.T. -0.00 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Tgt Ion:	94	Resp:	32902
Ion Ratio	Lower	Upper	
94	100		
65	35.3	7.9	47.9
66	74.2	16.2	56.2#





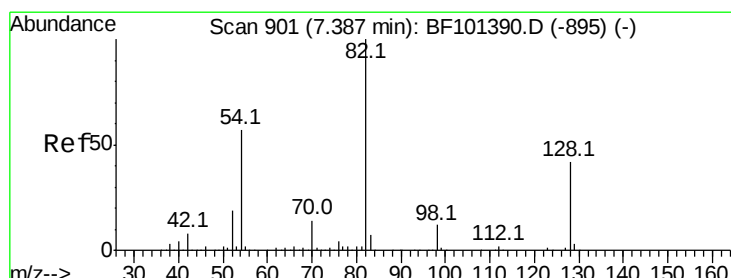
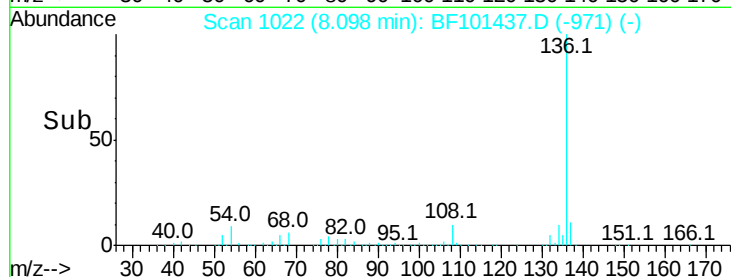
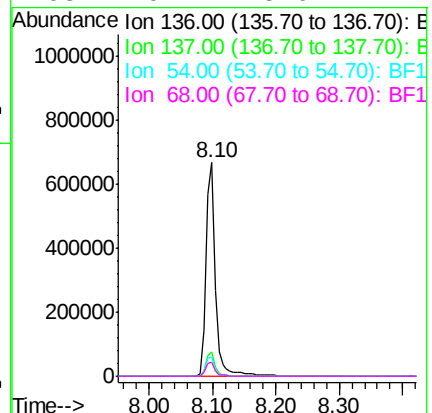
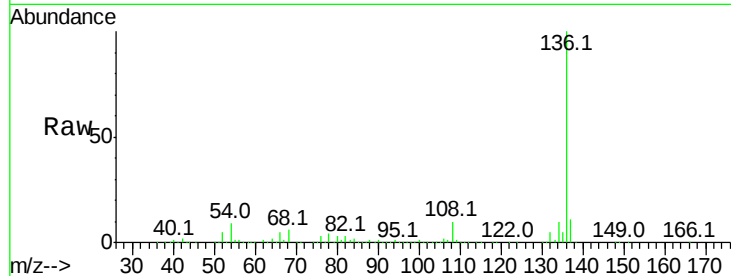
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.3	8.9	13.3	
54	8.8	6.6	9.8	
68	6.4	5.0	7.4	

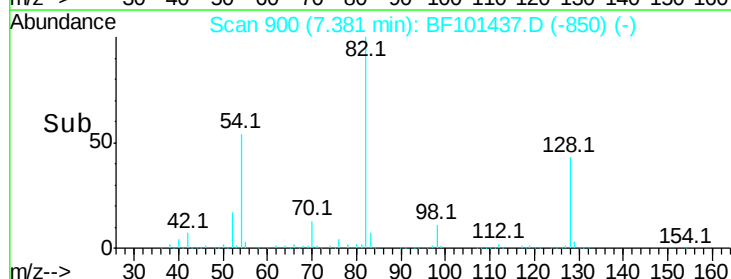
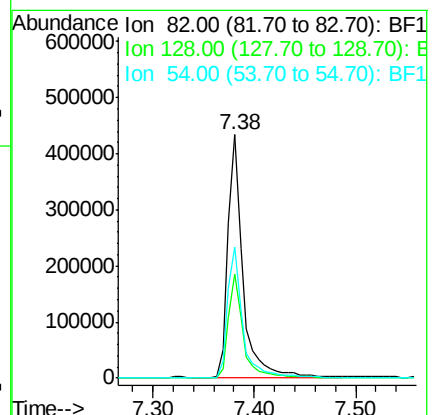
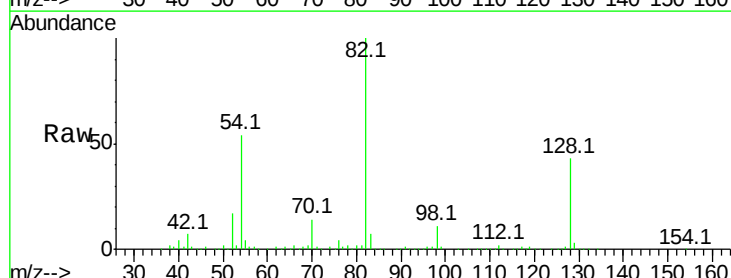
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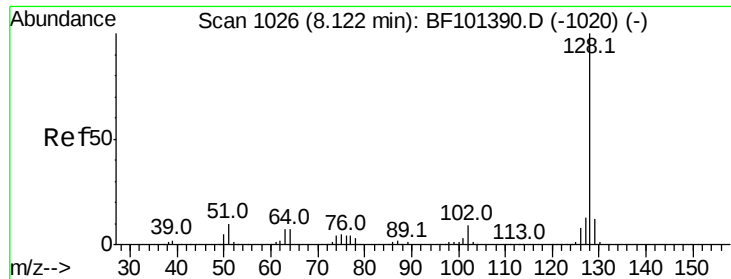
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#23
Nitrobenzene-d5
Concen: 36.805 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.6	36.1	54.1	
54	53.6	41.4	62.2	





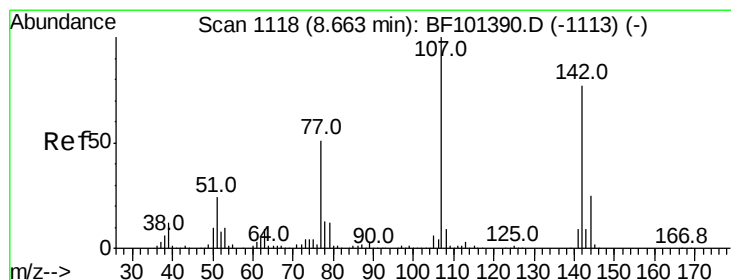
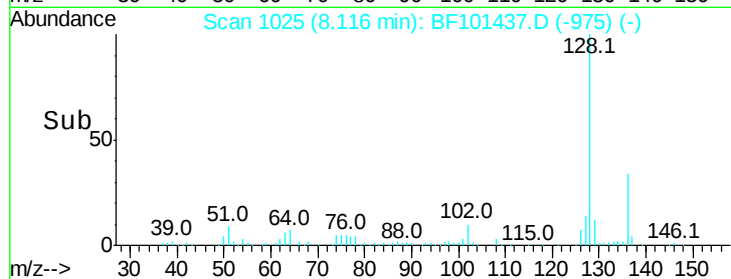
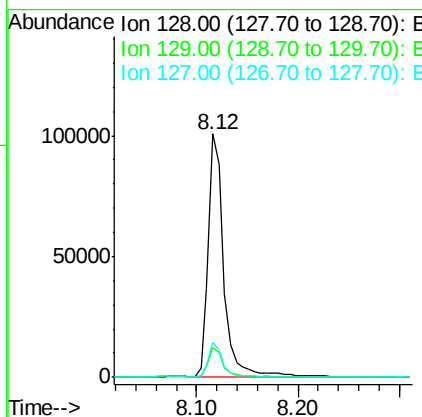
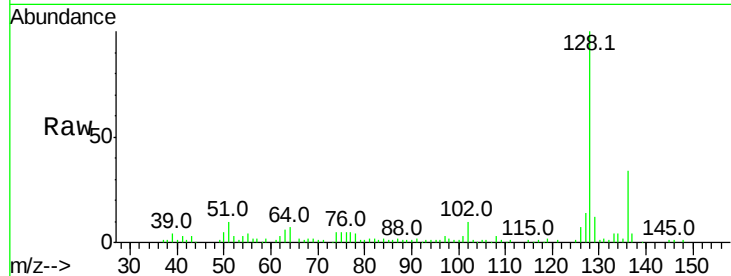
#31
Naphthalene
Concen: 3.209 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

Tot Ion	Ratio	Resp	Lower	Upper
128	100	108530		
129	12.0		8.8	13.2
127	14.1		10.9	16.3

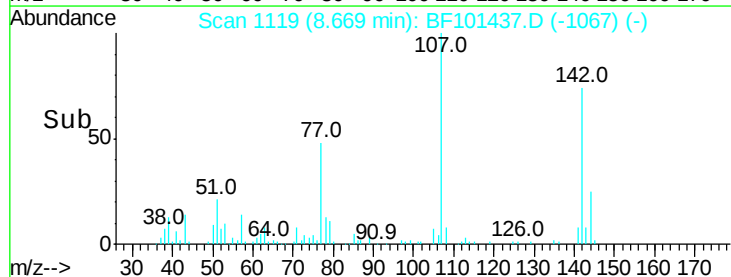
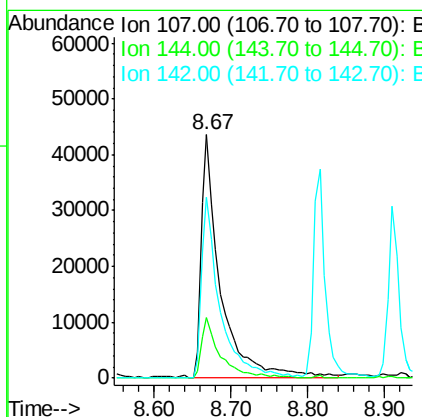
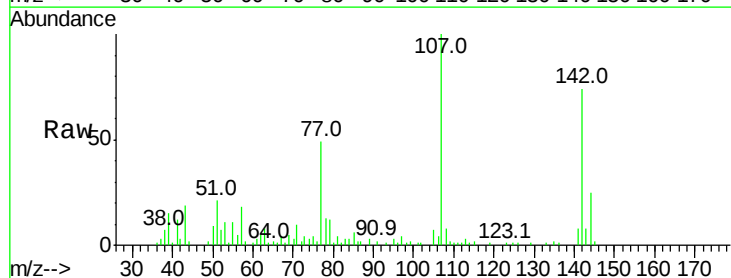
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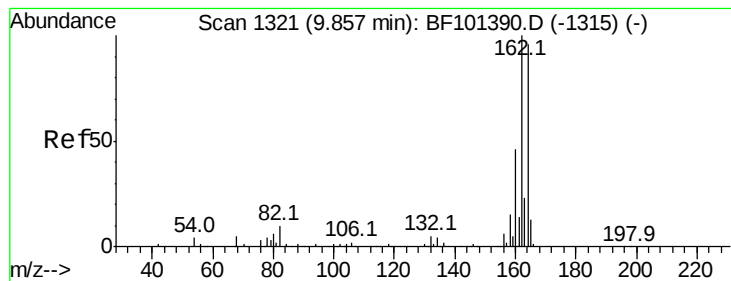
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#36
4-Chloro-3-methylphenol
Concen: 7.132 ng
RT: 8.67 min Scan# 1119
Delta R.T. 0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	75490		
144	24.9		20.5	30.7
142	74.3		62.0	93.0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

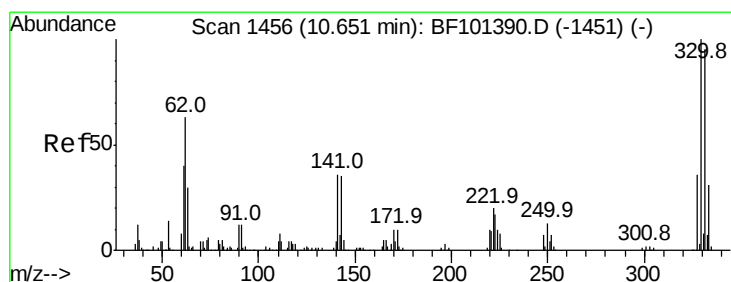
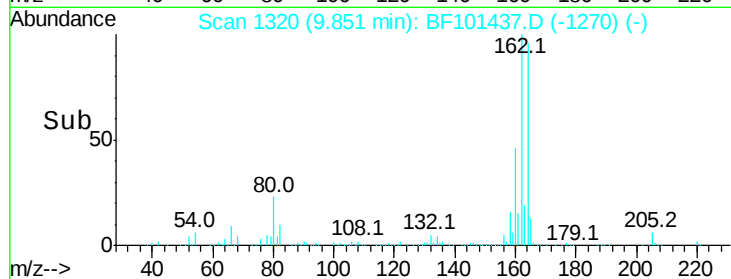
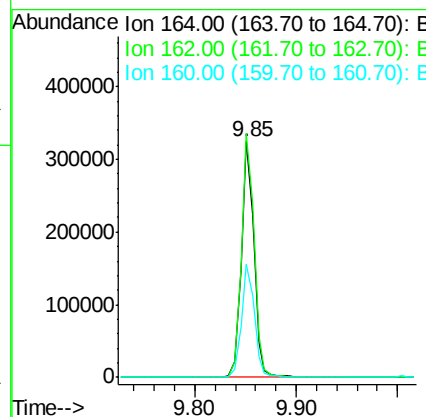
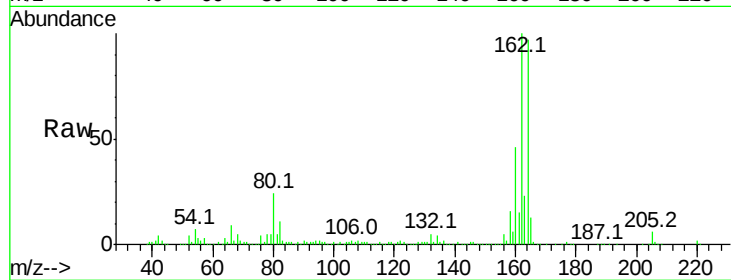
ClientSampleId :

DBWW-2-0-4DL

Tot Ion:	164	Resp:	281397
Ion Ratio	Lower	Upper	
164	100		
162	103.3	86.1	129.1
160	47.8	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 49.429 ng

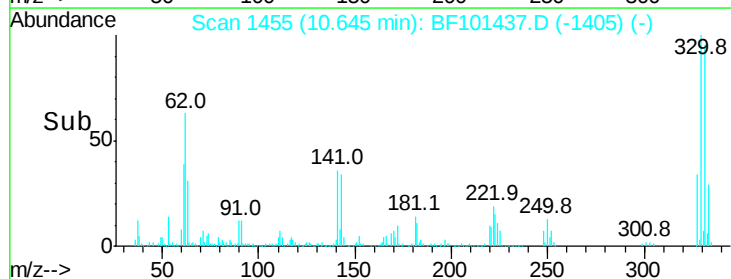
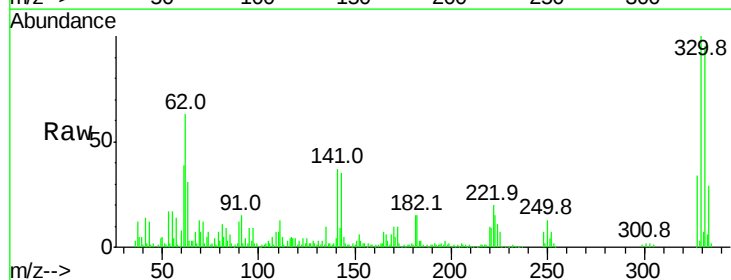
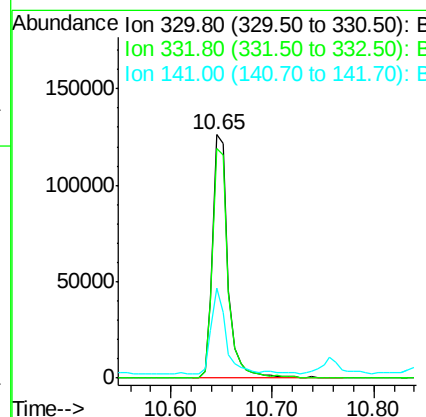
RT: 10.65 min Scan# 1455

Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Tgt Ion:	330	Resp:	134026
Ion Ratio	Lower	Upper	
330	100		
332	95.0	77.0	115.6
141	35.0	29.9	44.9





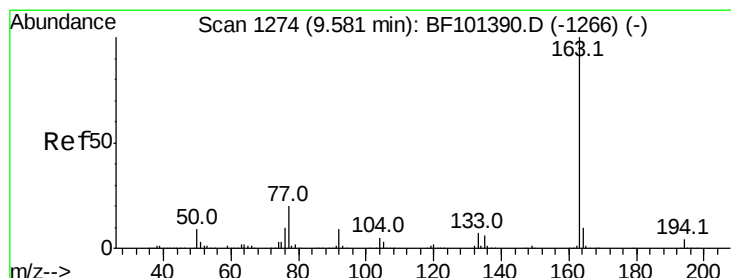
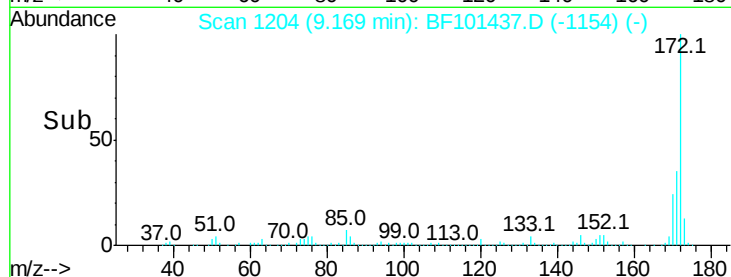
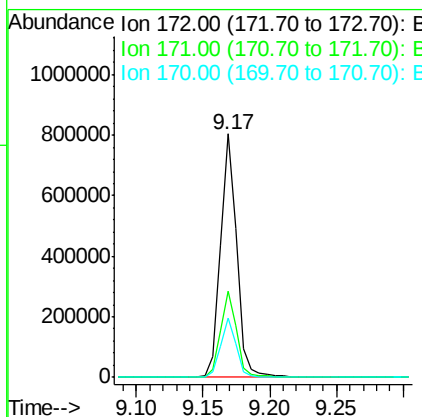
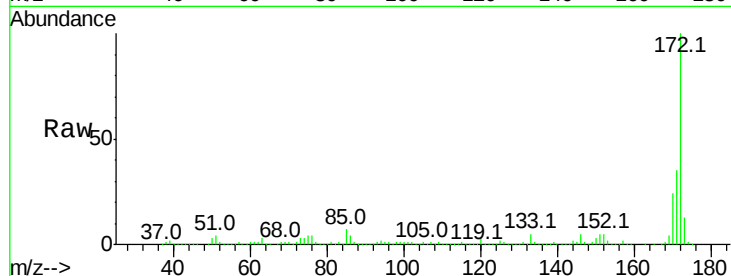
#44
2-Fluorobiphenyl
Concen: 38.361 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	695868		
171	35.4		29.7	44.5
170	24.1		19.6	29.4

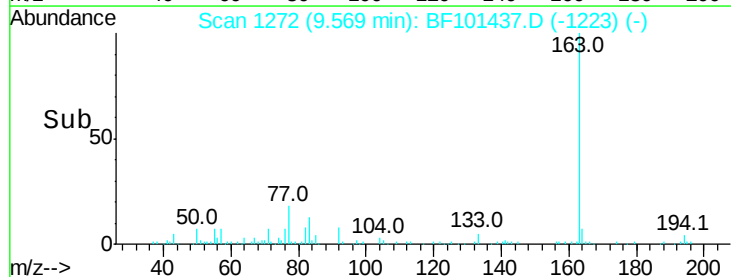
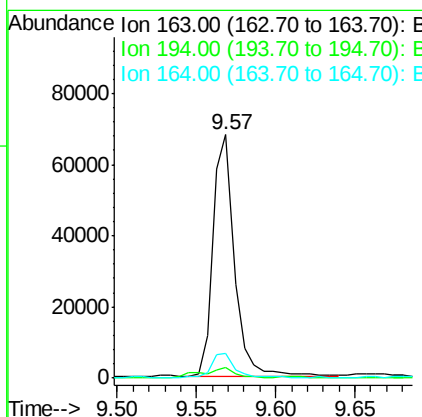
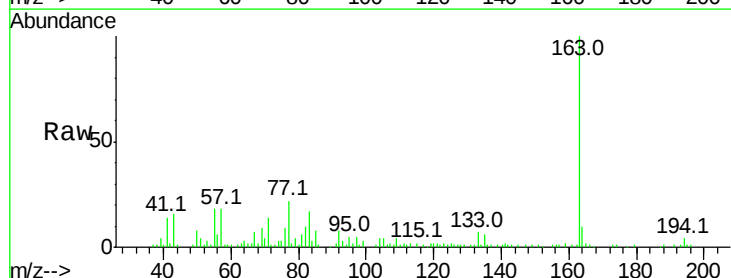
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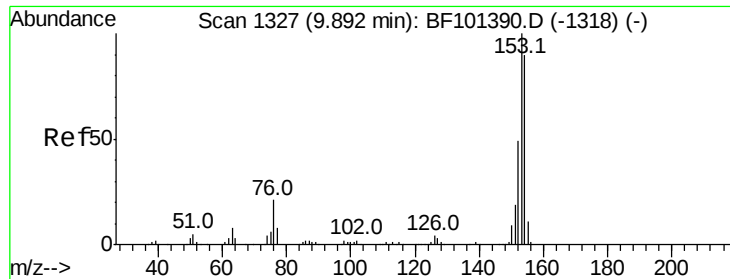
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#49
Dimethylphthalate
Concen: 2.831 ng
RT: 9.57 min Scan# 1272
Delta R.T. -0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	64083		
194	4.3		2.7	4.1#
164	10.0		8.2	12.2





#51

Acenaphthene

Concen: 4.182 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

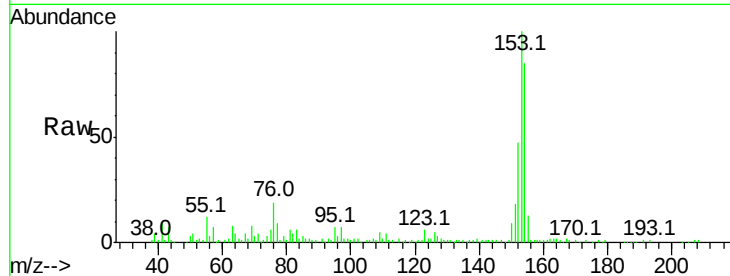
ClientSampleId :

DBWW-2-0-4DL

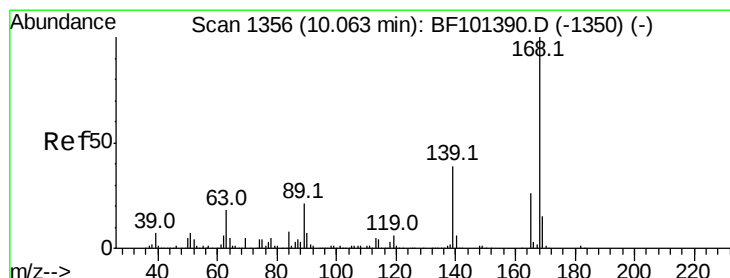
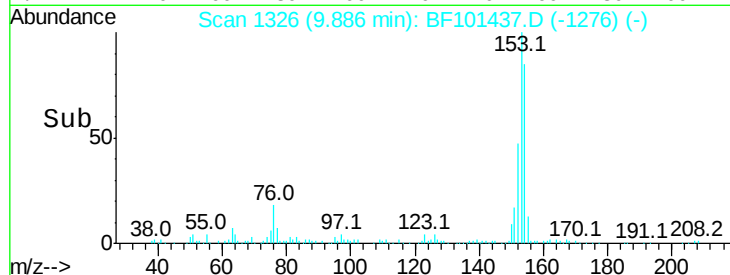
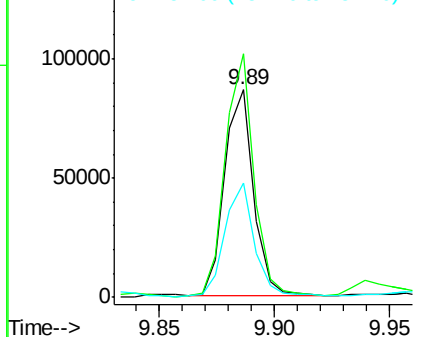
Tot Ion:	154	Resp:	75772
Ion Ratio	Lower	Upper	
154	100		
153	117.4	91.2	136.8
152	55.2	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.229 ng

RT: 10.06 min Scan# 1356

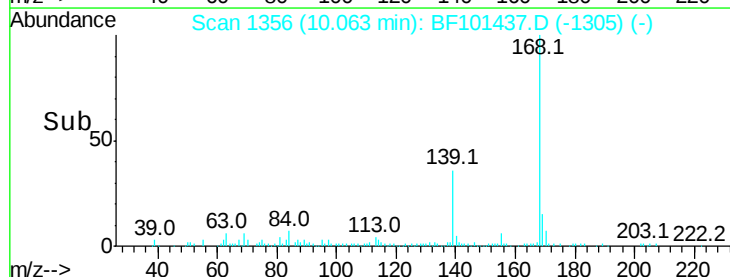
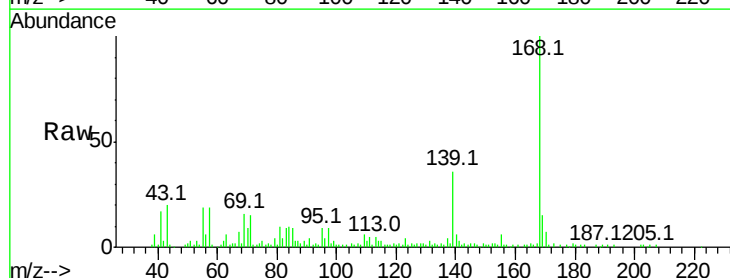
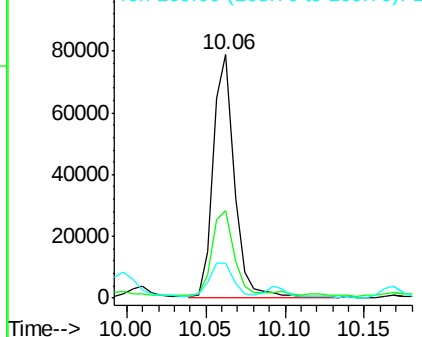
Delta R.T. -0.00 min

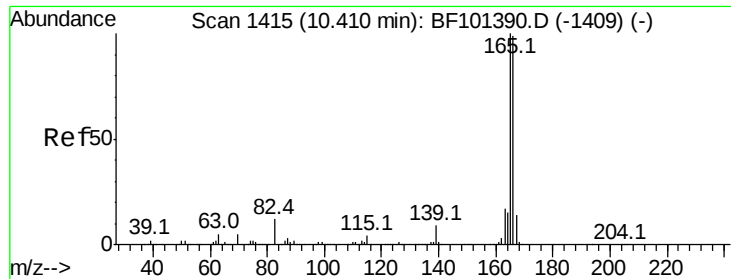
Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Tgt Ion:	168	Resp:	74345
Ion Ratio	Lower	Upper	
168	100		
139	36.1	30.1	45.1
169	14.5	10.9	16.3

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





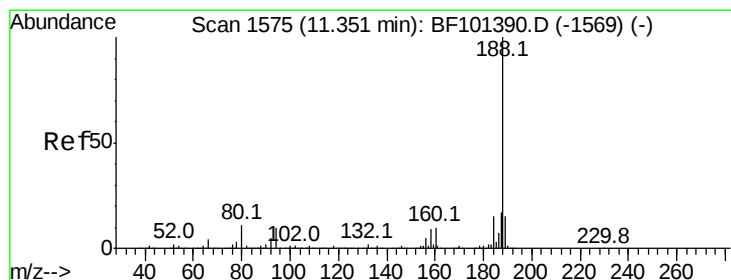
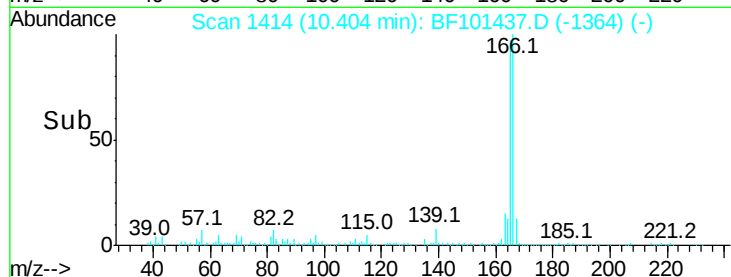
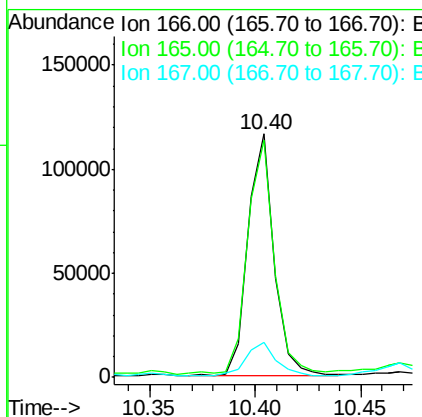
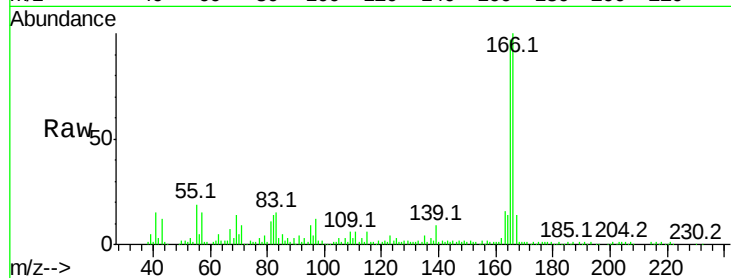
#57
Fluorene
 Concen: 5.105 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. -0.01 min
 Lab File: BF101437.D
 Acq: 15 Dec 2017 11:32

Instrument :
 BNA_F
 ClientSampleId :
 DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.8	119.8
167	14.2	10.6	16.0

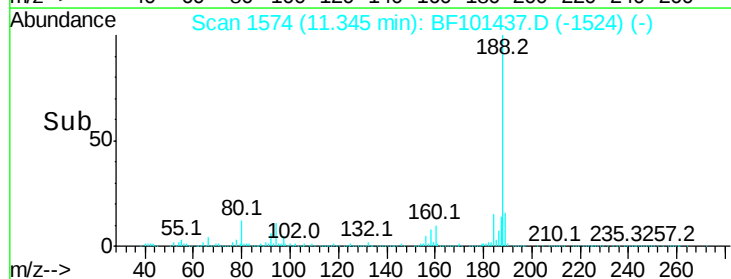
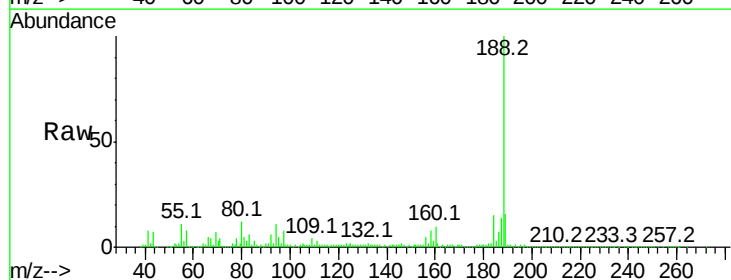
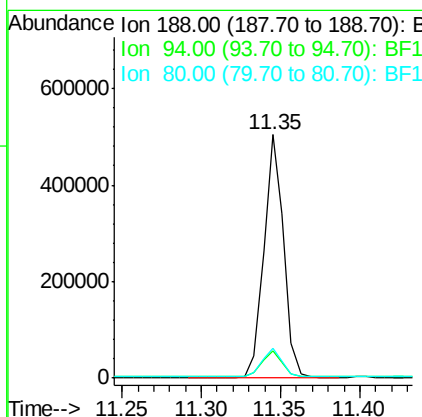
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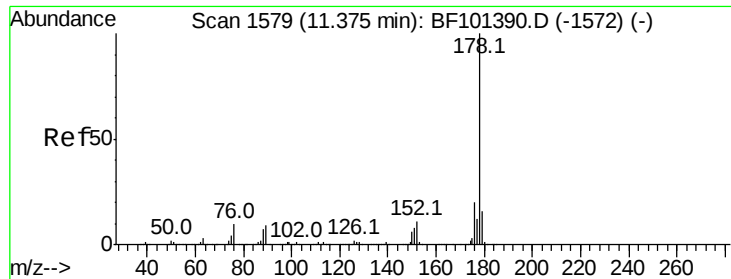
Sohil
 12/15/2017 6:45:37 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF101437.D
 Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.5	12.7
80	12.2	9.2	13.8





#70

Phenanthrene

Concen: 32.135 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

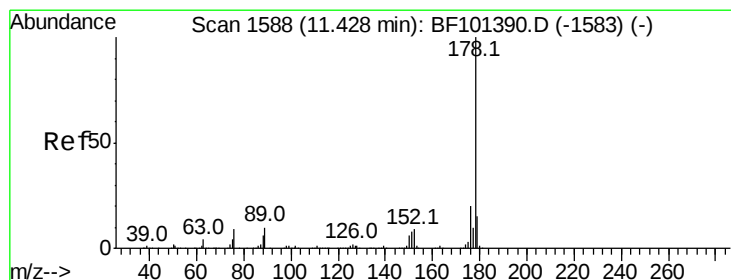
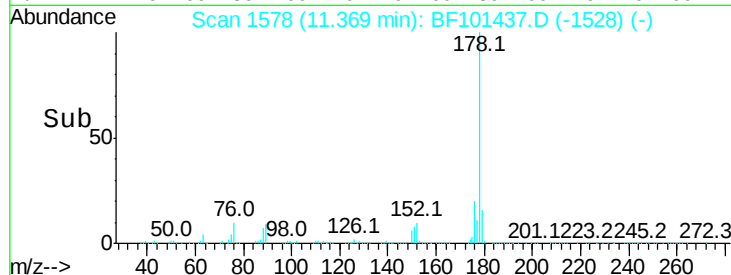
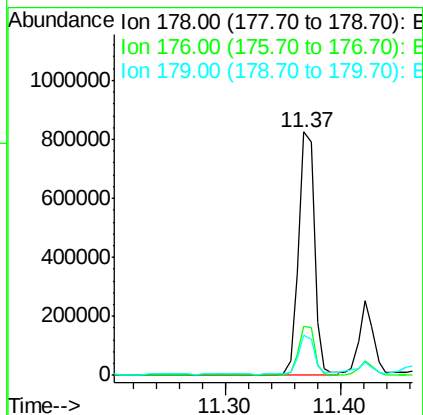
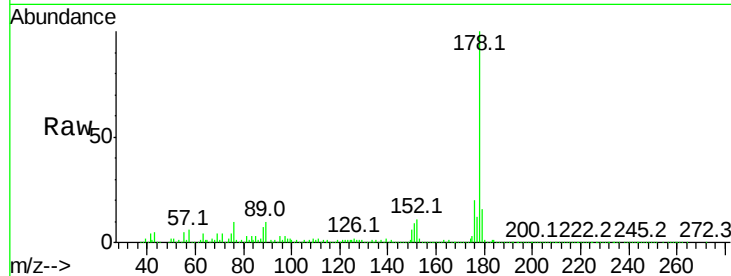
ClientSampleId :

DBWW-2-0-4DL

Tot Ion:178	Resp:	783513
Ion Ratio	Lower	Upper
178	100	
176	20.0	15.8 23.8
179	16.3	13.0 19.6

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#71

Anthracene

Concen: 8.119 ng

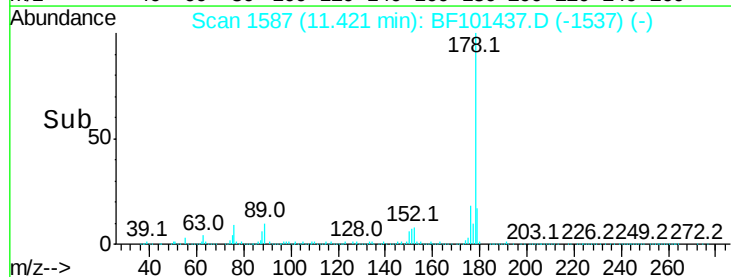
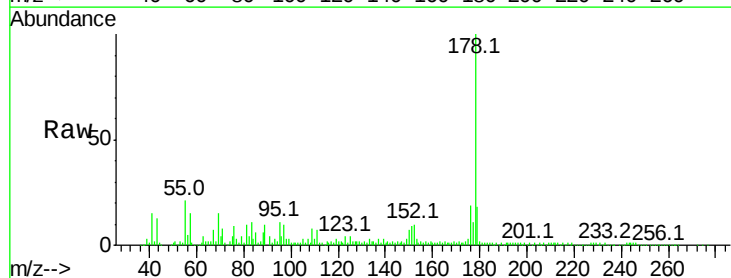
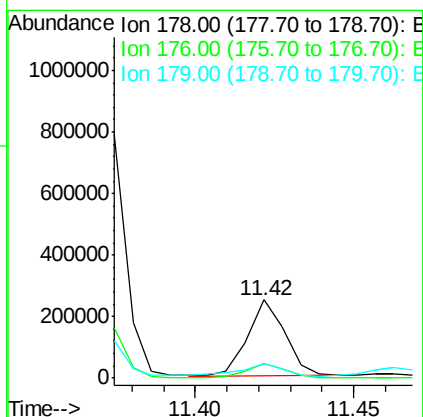
RT: 11.42 min Scan# 1587

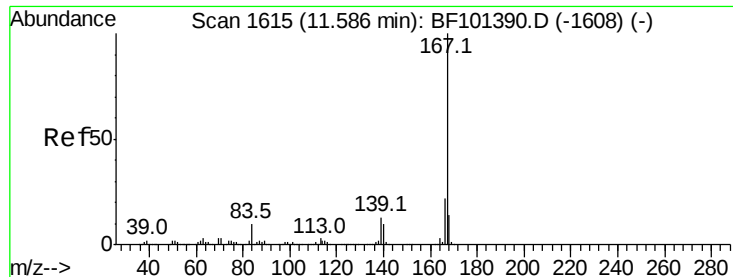
Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Tgt Ion:178	Resp:	202198
Ion Ratio	Lower	Upper
178	100	
176	18.6	15.4 23.2
179	17.8	12.6 19.0





#72

Carbazole

Concen: 4.657 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

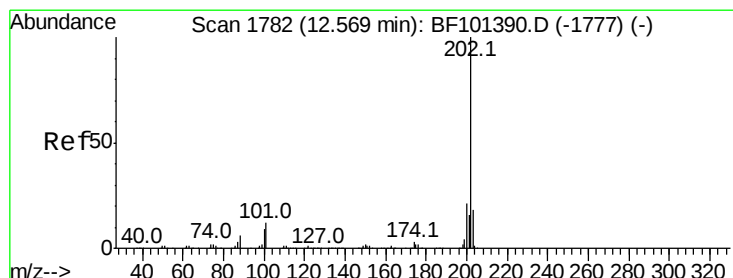
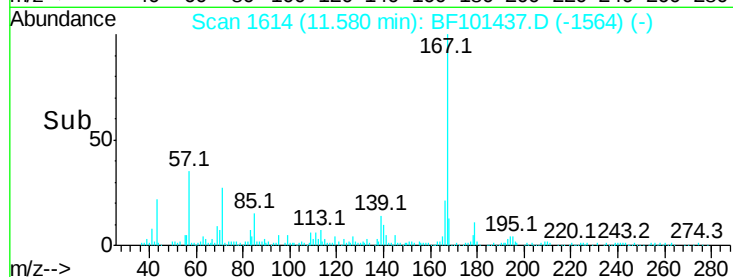
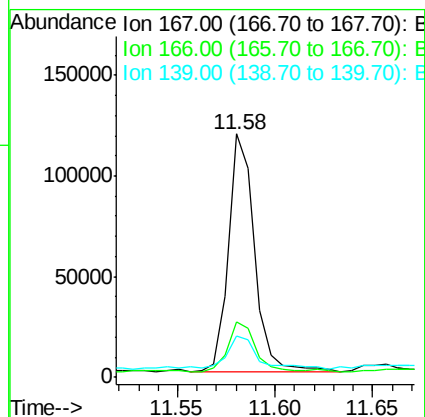
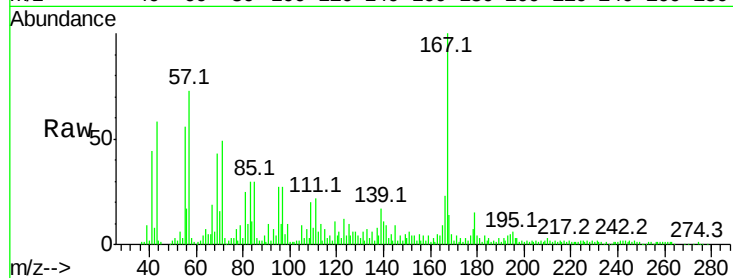
ClientSampleId :

DBWW-2-0-4DL

Tot Ion:	167	Resp:	108587
Ion Ratio	Lower	Upper	
167	100		
166	22.9	17.6	26.4
139	16.9	10.9	16.3#

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#74

Fluoranthene

Concen: 33.397 ng

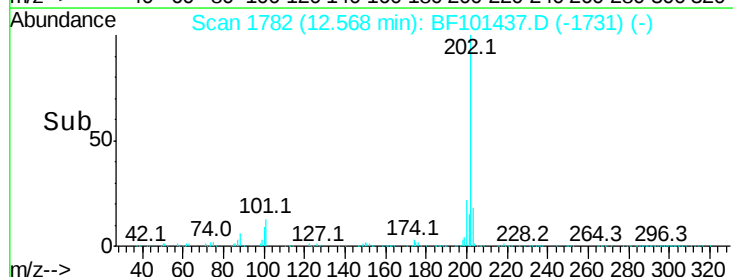
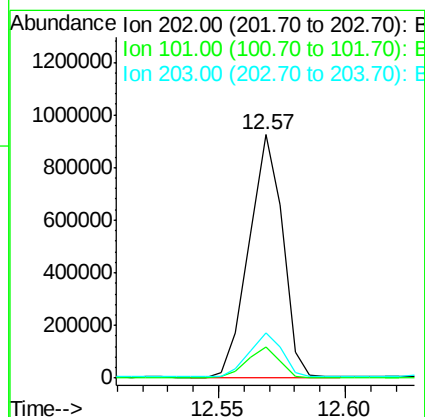
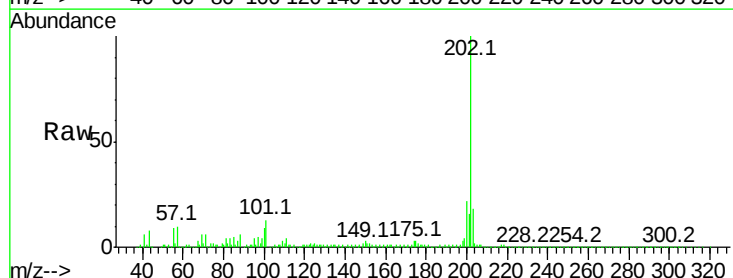
RT: 12.57 min Scan# 1782

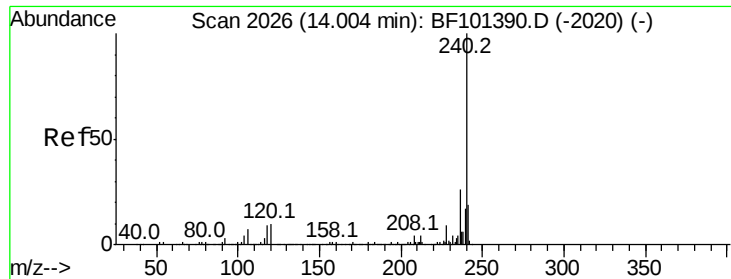
Delta R.T. -0.00 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Tgt Ion:	202	Resp:	854720
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	34.1
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

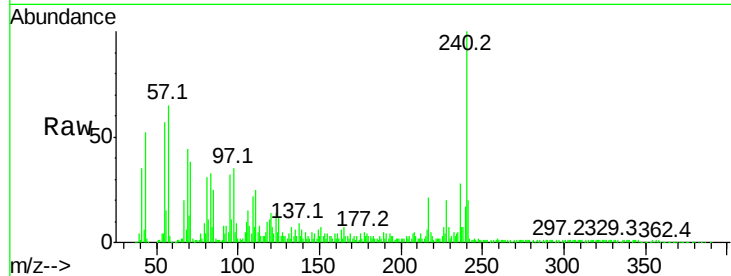
ClientSampleId :

DBWW-2-0-4DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	242312		
120	13.7	9.5	14.3	
236	27.6	20.7	31.1	

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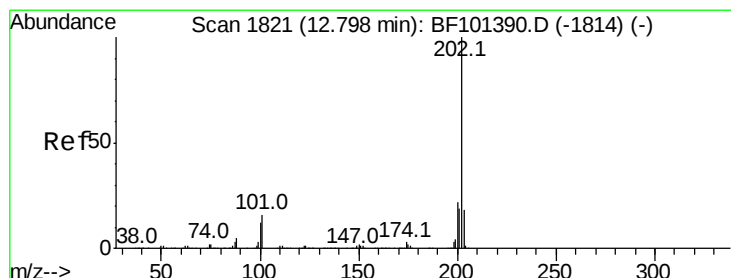
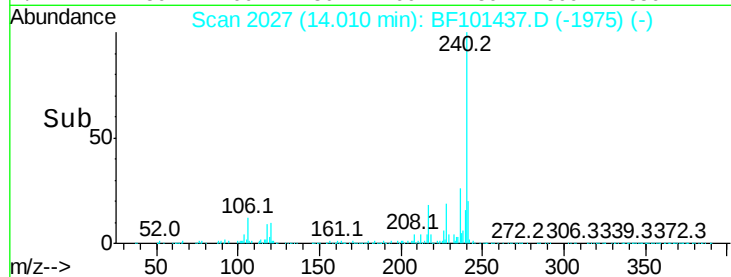
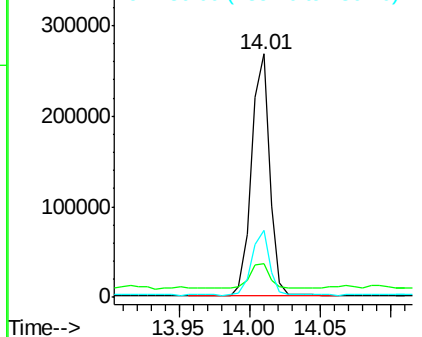
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 41.164 ng

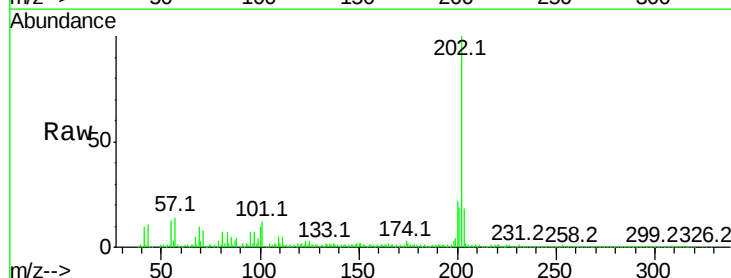
RT: 12.80 min Scan# 1822

Delta R.T. 0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

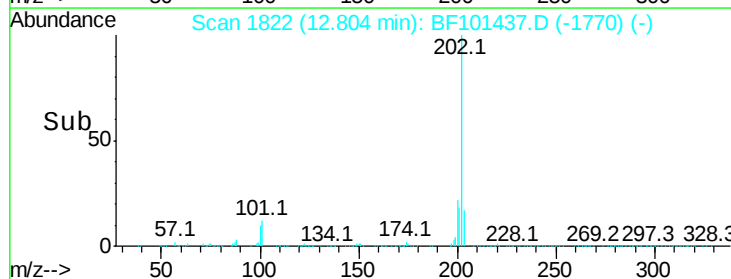
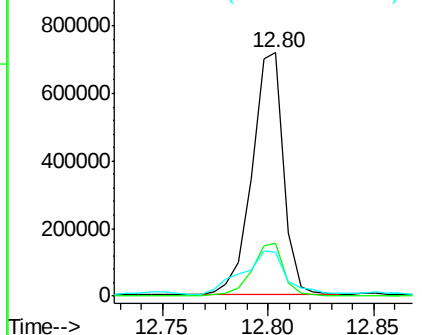
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	748582		
200	22.0	17.4	26.2	
203	18.2	14.3	21.5	

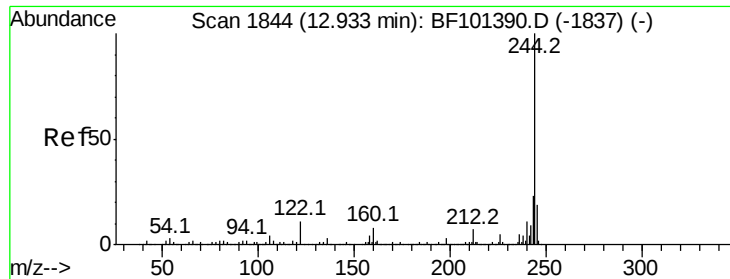


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





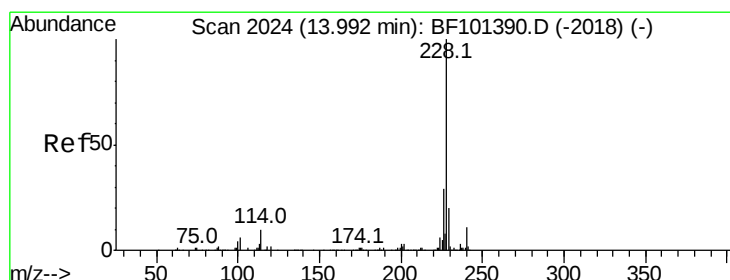
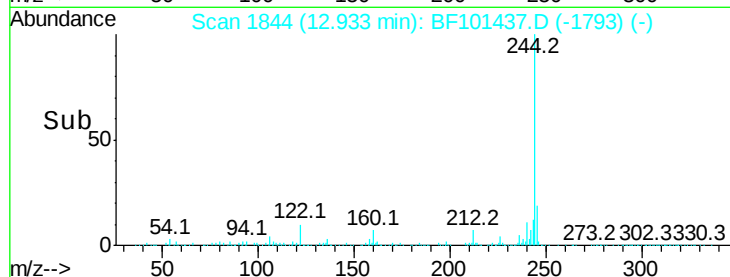
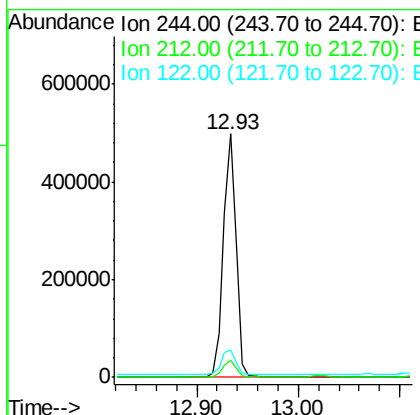
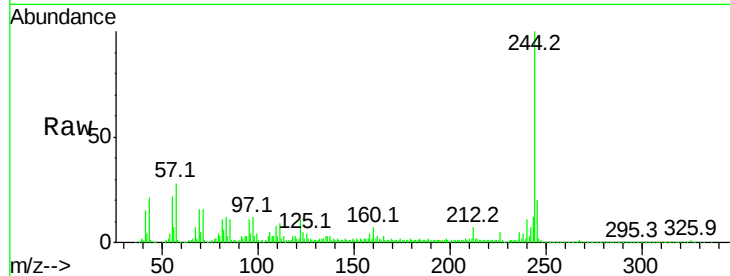
#78
 Terphenyl-d14
 Concen: 42.513 ng
 RT: 12.93 min Scan# 1844
 Delta R.T. -0.00 min
 Lab File: BF101437.D
 Acq: 15 Dec 2017 11:32

Instrument :
 BNA_F
 ClientSampleId :
 DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	11.4	11.0	16.4

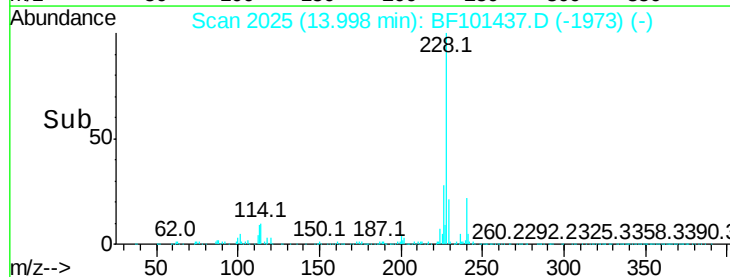
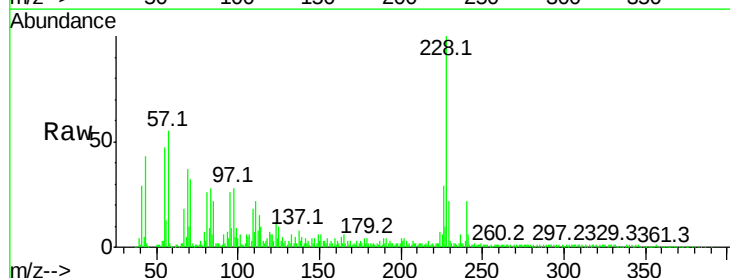
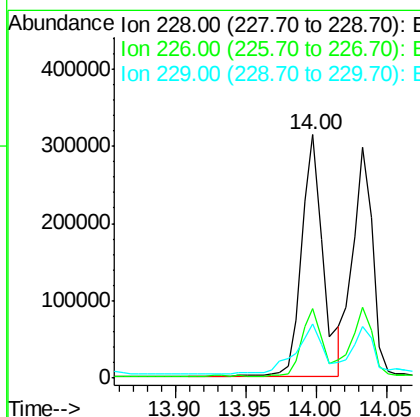
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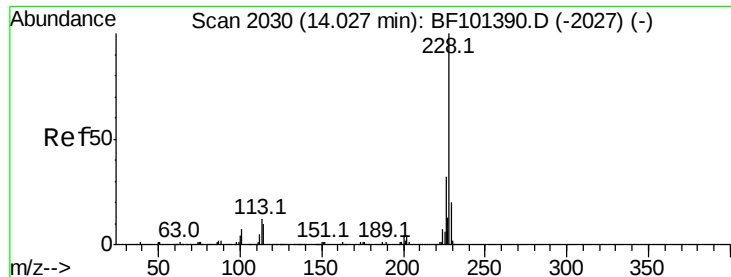
Sohil
 12/15/2017 6:45:37 PM



#80
 Benzo(a)anthracene
 Concen: 20.700 ng
 RT: 14.00 min Scan# 2025
 Delta R.T. 0.01 min
 Lab File: BF101437.D
 Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	22.1	15.8	23.6





#82

Chrysene

Concen: 19.280 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Instrument :

BNA_F

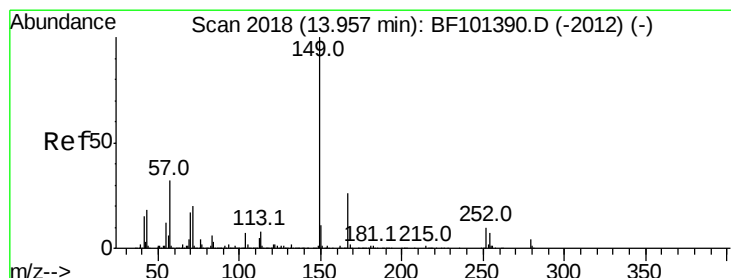
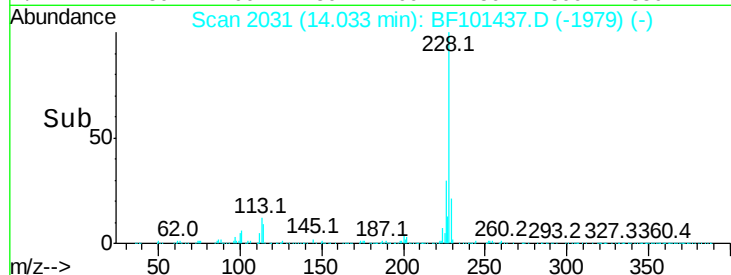
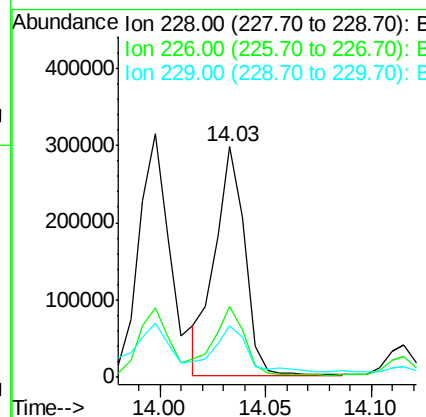
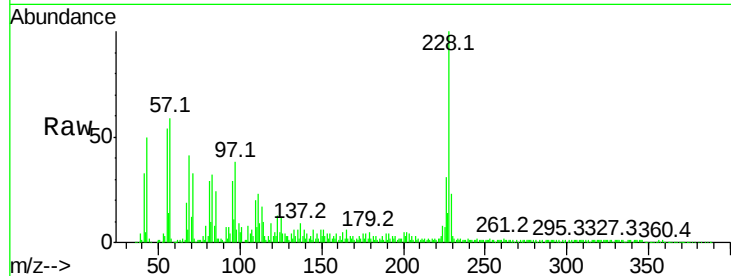
ClientSampleId :

DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	22.6	16.2	24.4

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#83

Bis(2-ethylhexyl)phthalate

Concen: 6.661 ng

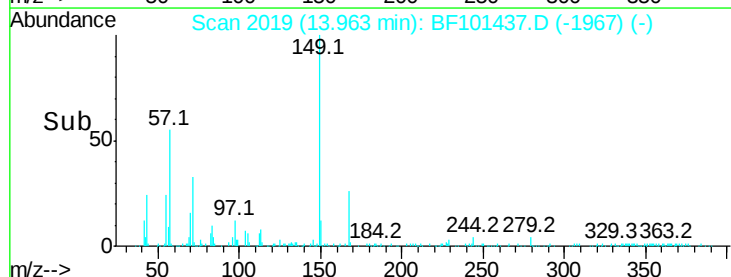
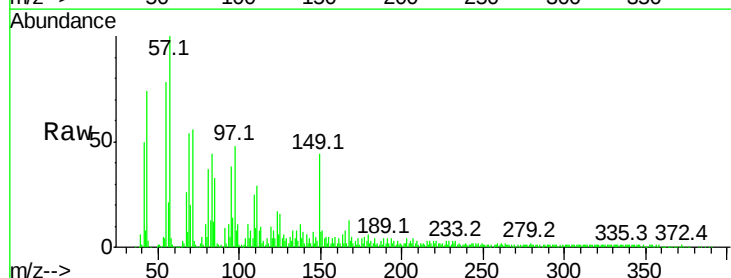
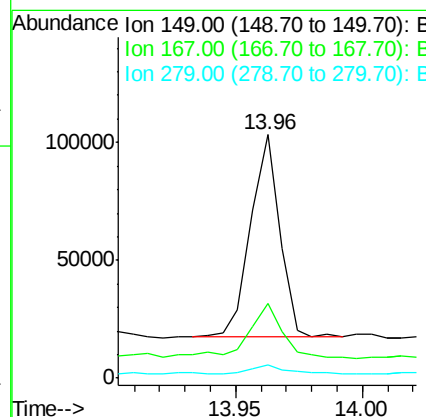
RT: 13.96 min Scan# 2019

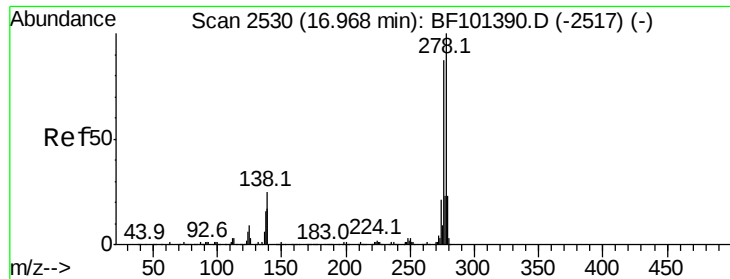
Delta R.T. 0.01 min

Lab File: BF101437.D

Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.6	21.3	31.9
279	5.5	3.0	4.4#





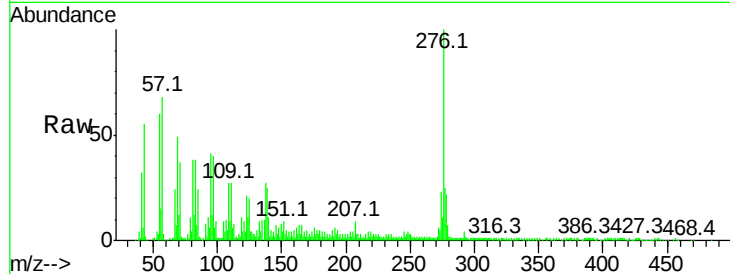
#85
Indeno(1,2,3-cd)pyrene
Concen: 15.495 ng
RT: 16.99 min Scan# 2534
Delta R.T. 0.02 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

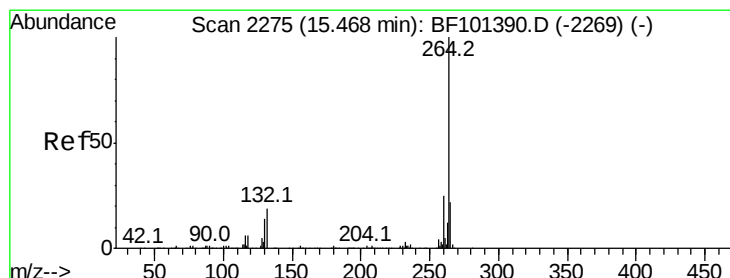
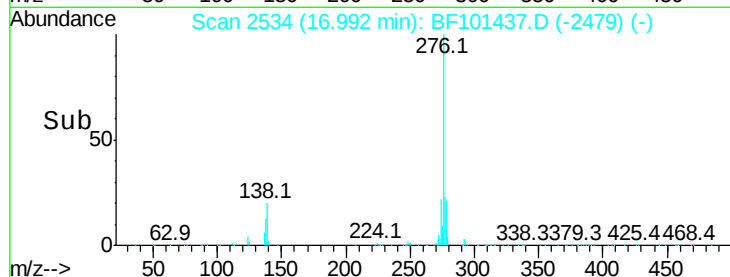
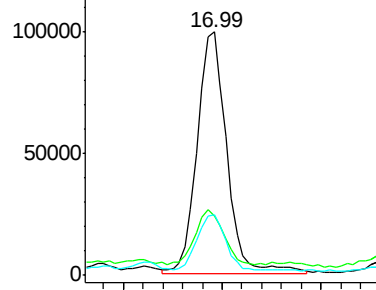
Tot Ion	Ratio	Resp	Lower	Upper
276	100	208451		
138	3.2	25.0	37.6	#
277	3.4	20.1	30.1	#

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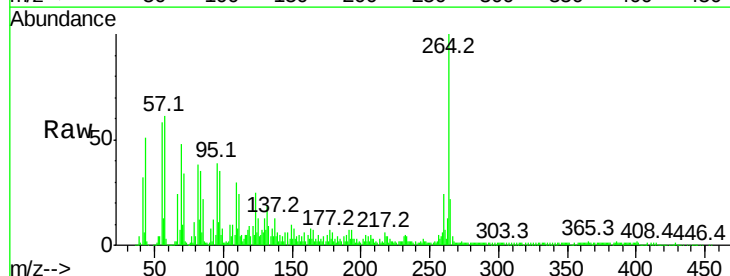


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

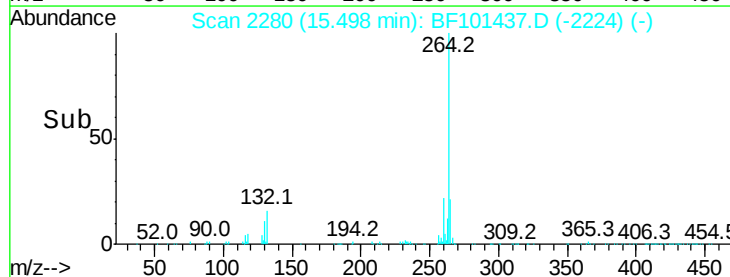
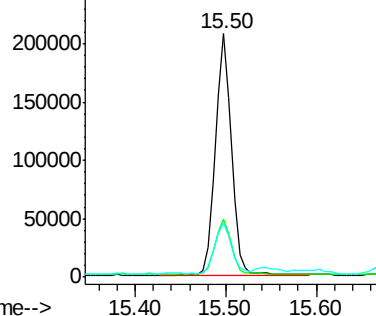


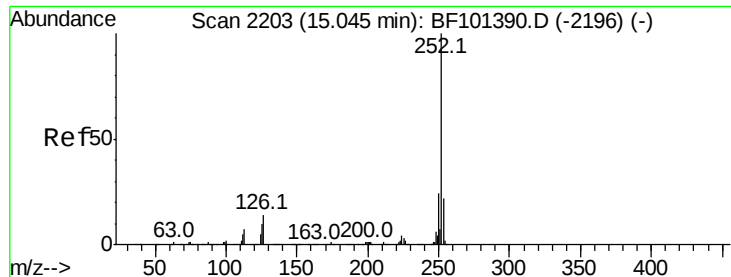
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.03 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	259105		
260	24.1	19.2	28.8	
265	22.1	17.5	26.3	



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





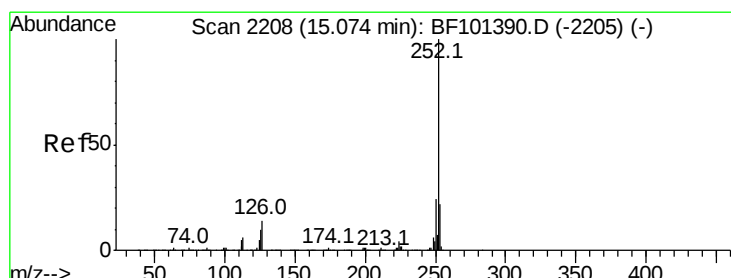
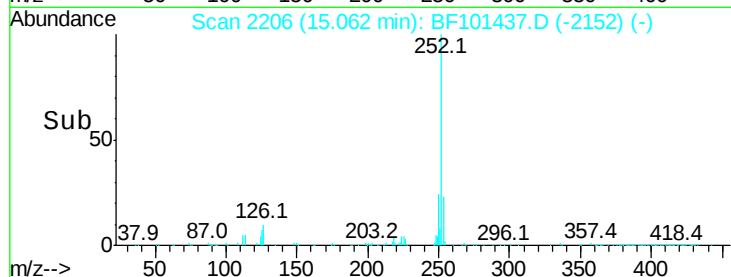
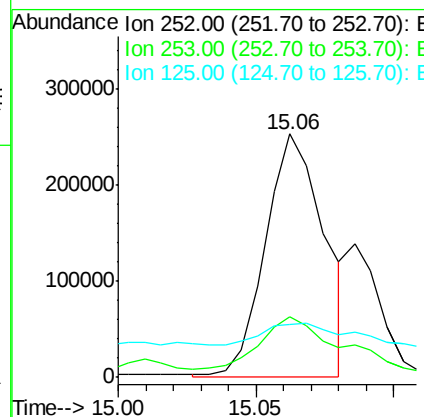
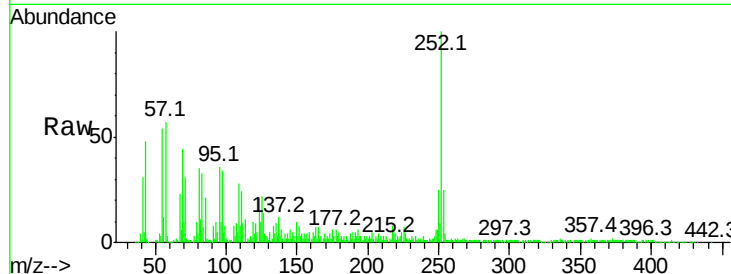
#87
Benzo(b)fluoranthene
Concen: 23.853 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.02 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.0	25.6
125	21.8	9.0	13.6

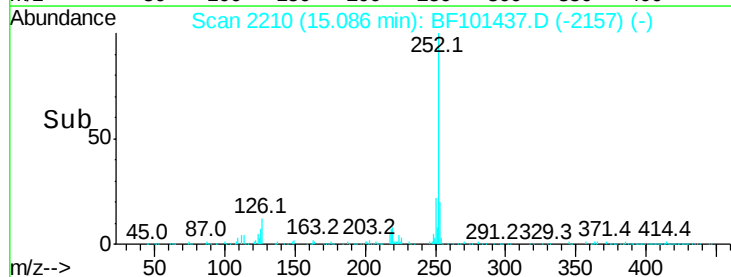
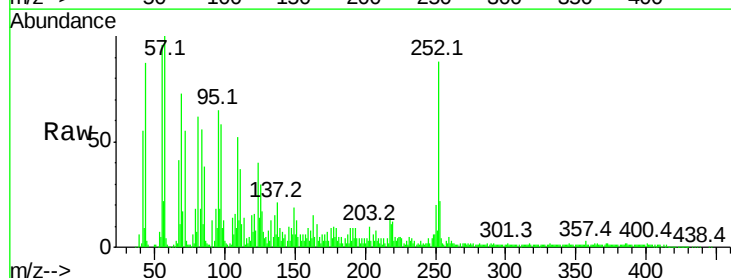
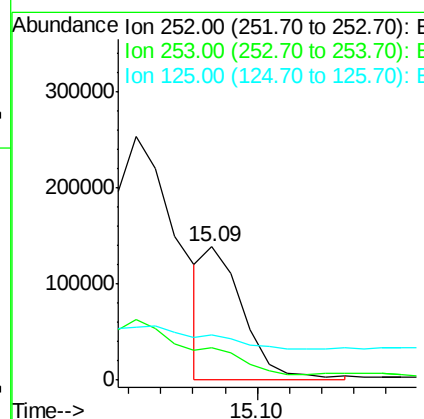
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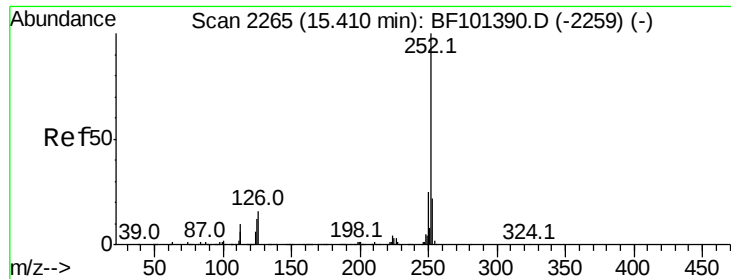
Sohil
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#88
Benzo(k)fluoranthene
Concen: 7.737 ng m
RT: 15.09 min Scan# 2210
Delta R.T. 0.01 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	33.9	10.2	15.2





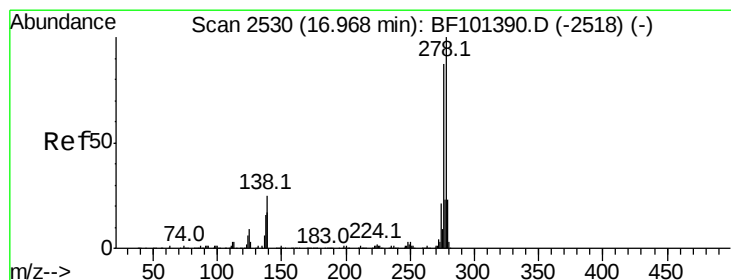
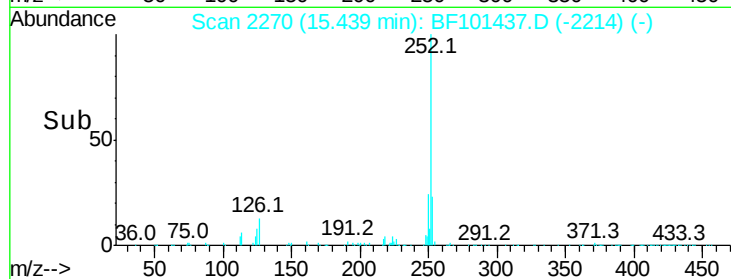
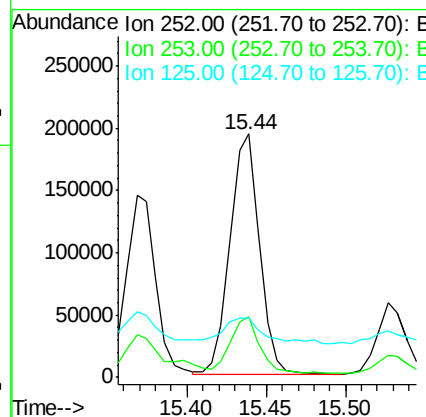
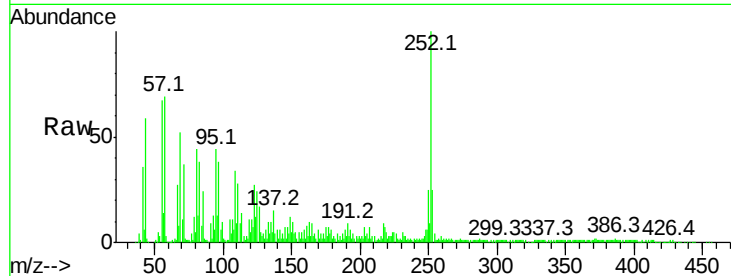
#89
Benzo(a)pyrene
Concen: 17.060 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.03 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampled :
DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.1	25.7
125	24.3	9.8	14.6

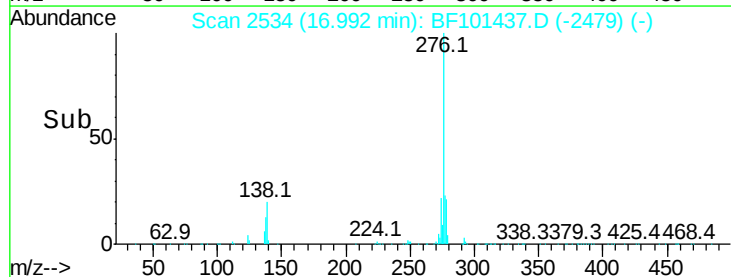
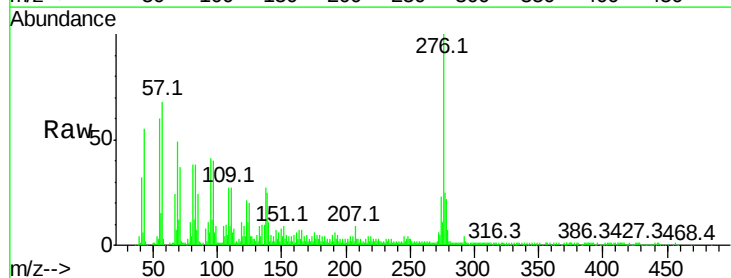
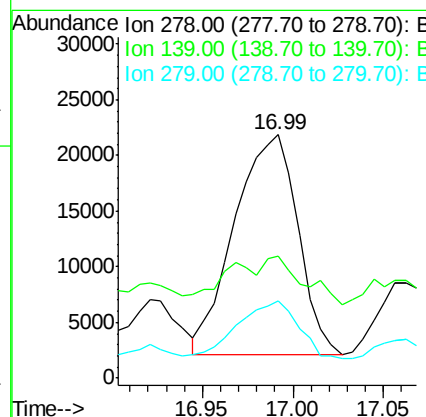
Manual Integrations
APPROVED

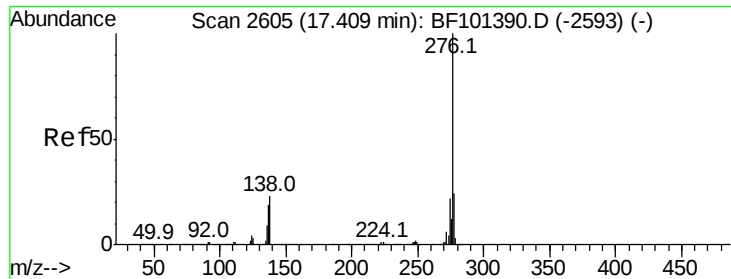
Sohil
12/15/2017 6:45:37 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.828 ng
RT: 16.99 min Scan# 2534
Delta R.T. 0.02 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	50.0	15.9	23.9
279	31.6	19.0	28.4





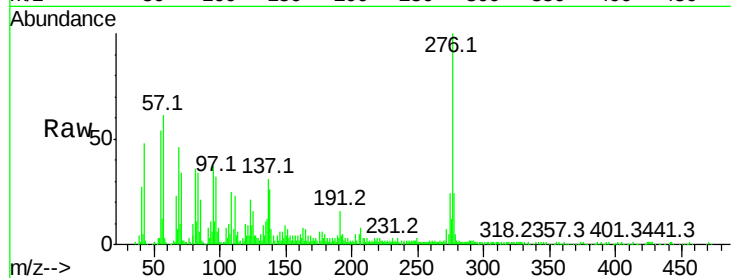
#91
Benzo(a,h,i)perylene
Concen: 15.751 ng
RT: 17.44 min Scan# 2611
Delta R.T. 0.04 min
Lab File: BF101437.D
Acq: 15 Dec 2017 11:32

Instrument :
BNA_F
ClientSampleId :
DBWW-2-0-4DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	26.0	21.8	32.8

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:37 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

