

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102617\
 Data File : BF099870.D
 Acq On : 26 Oct 2017 19:48
 Operator : SJ/JU
 Sample : I6078-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DW-2

Manual Integrations
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Quant Time: Oct 26 20:34:11 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 16:31:52 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	60538	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	249625	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	117047	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	188155	20.00	ng	0.01
75) Chrysene-d12	14.02	240	114290	20.00	ng	0.04
86) Perylene-d12	15.52	264	138412	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	329002	85.32	ng	0.00
7) Phenol-d6	6.44	99	423855	92.70	ng	0.00
23) Nitrobenzene-d5	7.36	82	230690	59.50	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	90716	85.05	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	474480	62.54	ng	0.00
78) Terphenyl-d14	12.93	244	395744	75.67	ng	0.02
Target Compounds						
10) Phenol	6.46	94	16781	3.343	ng	Qvalue # 71
31) Naphthalene	8.10	128	48211	4.001	ng	99
37) 2-Methylnaphthalene	8.80	142	604963	74.918	ng	97
45) 1,1'-Biphenyl	9.26	154	203793	19.246	ng	96
49) Dimethylphthalate	9.56	163	25758	2.779	ng	# 98
51) Acenaphthene	9.88	154	728448	100.658	ng	99
54) Dibenzofuran	10.05	168	883827	86.520	ng	98
57) Fluorene	10.40	166	1003022	118.588	ng	99
70) Phenanthrene	11.40	178	4240486	399.349	ng	99
71) Anthracene	11.44	178	1565814	145.274	ng	100
72) Carbazole	11.58	167	495725	48.908	ng	99
74) Fluoranthene	12.60	202	4501099	407.891	ng	98
77) Pyrene	12.83	202	3486591	401.194	ng	98
80) Benzo(a)anthracene	14.01	228	1677536	231.537	ng	96
82) Chrysene	14.06	228	1470929	215.949	ng	97
83) Bis(2-ethylhexyl)phthalate	13.97	149	335696	55.859	ng	98
85) Indeno(1,2,3-cd)pyrene	17.04	276	836915	133.841	ng	94
87) Benzo(b)fluoranthene	15.09	252	2244415m	256.796	ng	
88) Benzo(k)fluoranthene	15.11	252	360064m	43.689	ng	
89) Benzo(a)pyrene	15.47	252	1276530	162.594	ng	# 95
90) Dibenzo(a,h)anthracene	17.03	278	171948	24.648	ng	# 87
91) Benzo(g,h,i)perylene	17.50	276	746597	109.389	ng	93

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

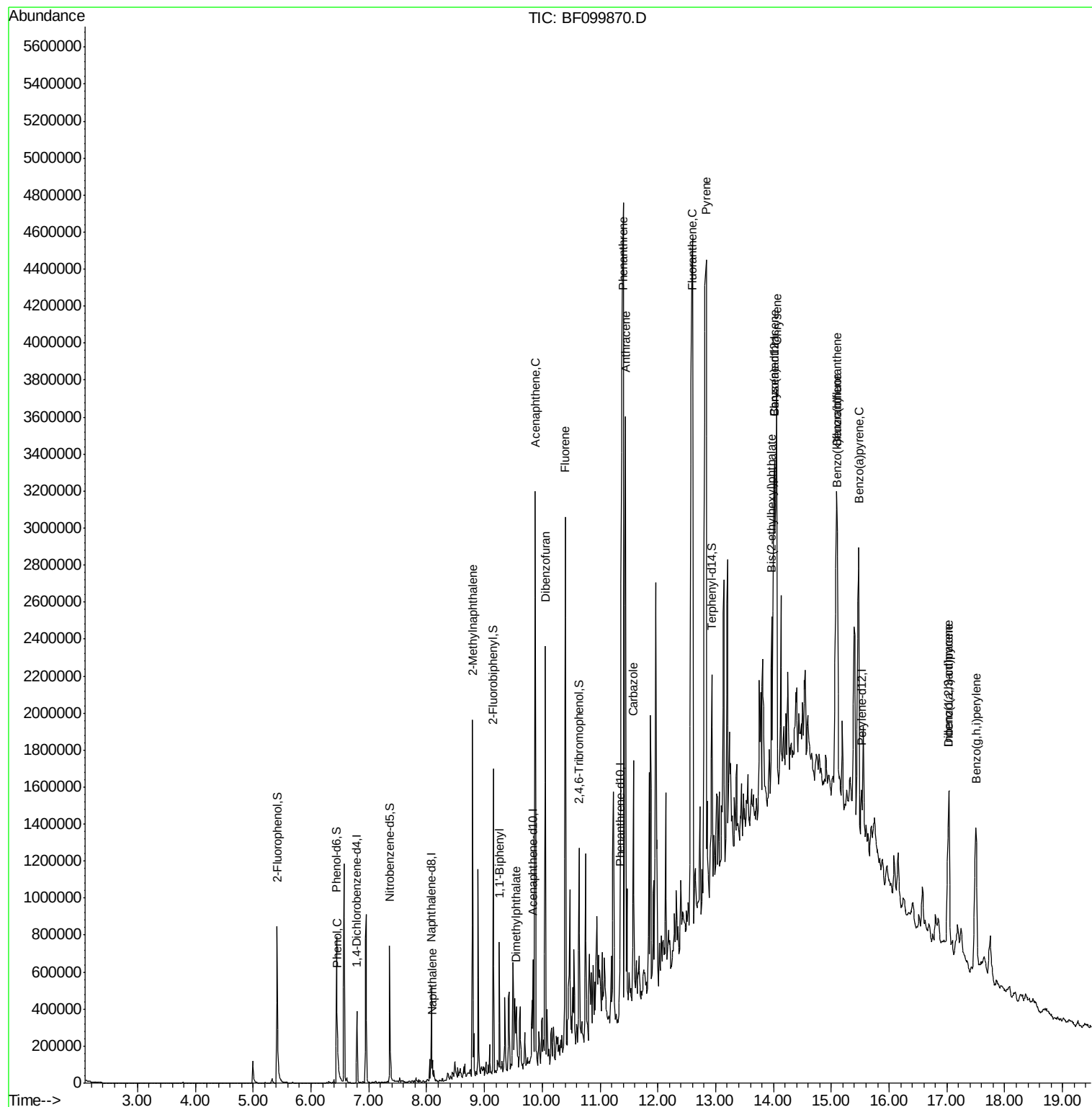
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102617\
Data File : BF099870.D
Acq On : 26 Oct 2017 19:48
Operator : SJ/JU
Sample : I6078-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

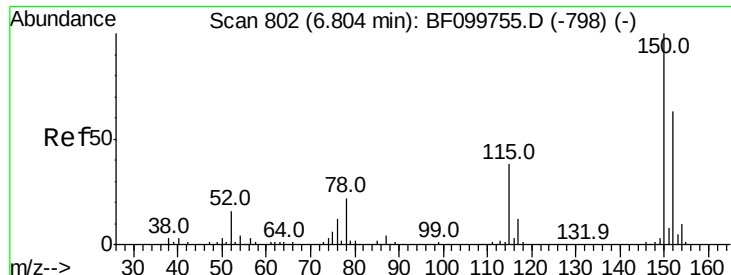
Instrument :
BNA_F
ClientSampleId :
DW-2

Quant Time: Oct 26 20:34:11 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 26 16:31:52 2017
Response via : Initial Calibration

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#1

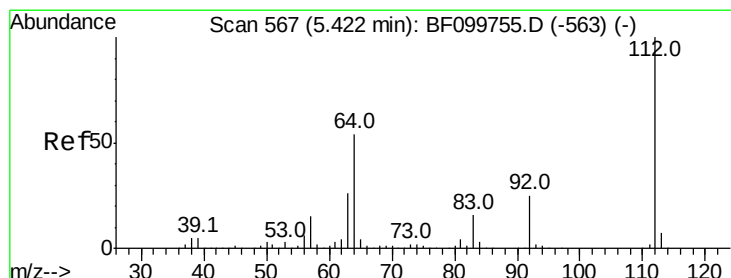
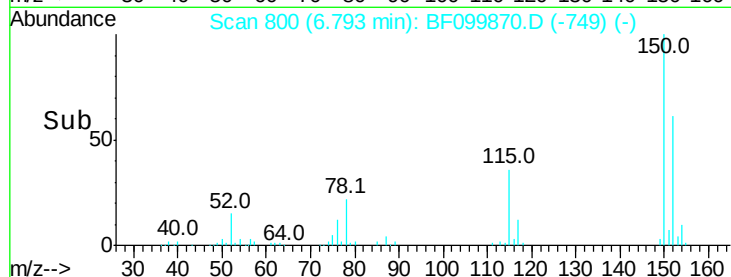
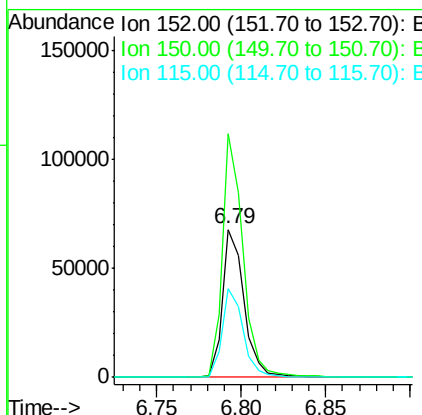
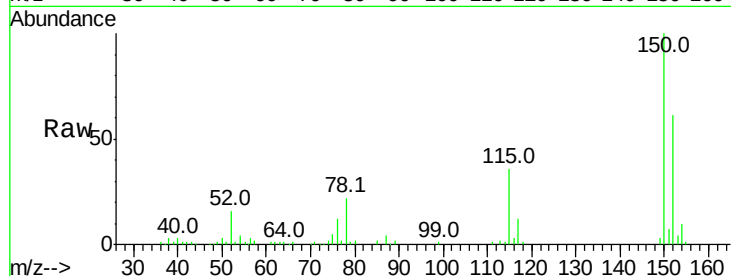
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampled :
DW-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	164.5	124.6	186.8
115	59.9	50.1	75.1

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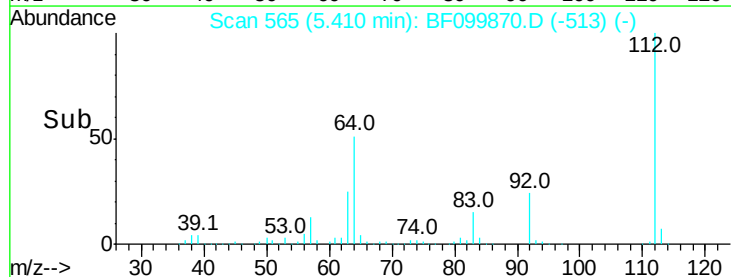
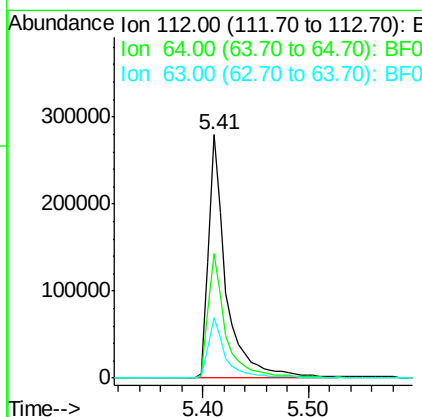
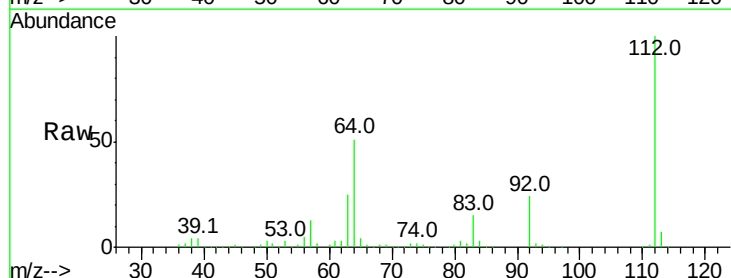
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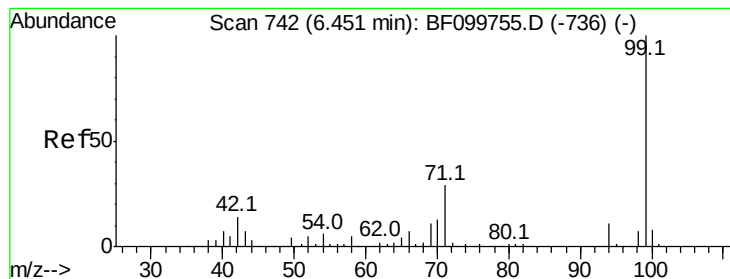


#5

2-Fluorophenol
Concen: 85.322 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.0	47.9	71.9
63	25.0	23.7	35.5





#7

Phenol-d6

Concen: 92.704 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Instrument :

BNA_F

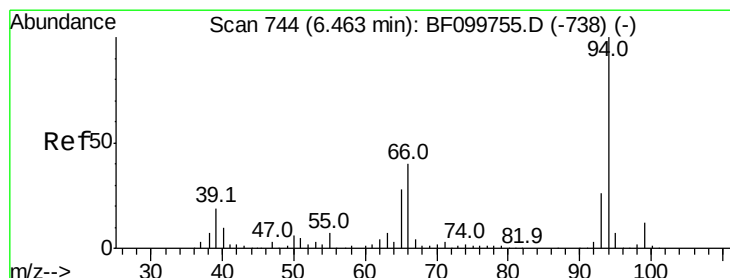
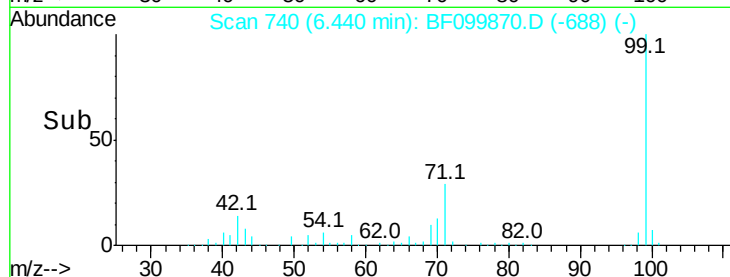
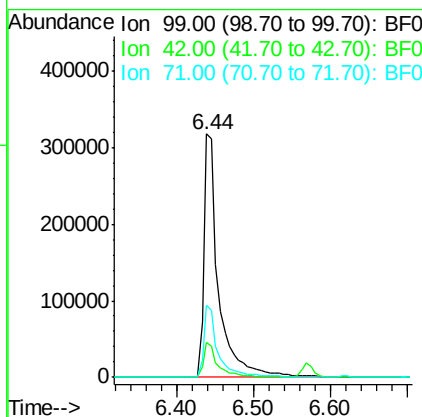
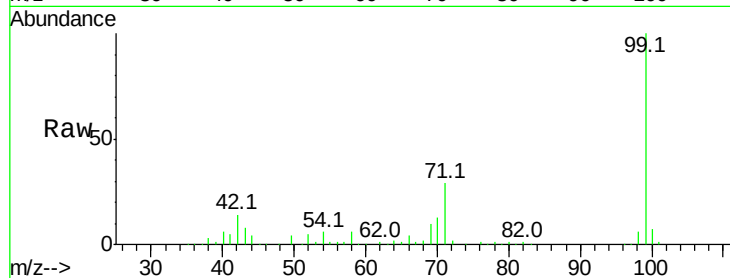
ClientSampled :

DW-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		423855		
42	14.2	14.5	21.7#		
71	29.4	25.4	38.0		

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#10

Phenol

Concen: 3.343 ng

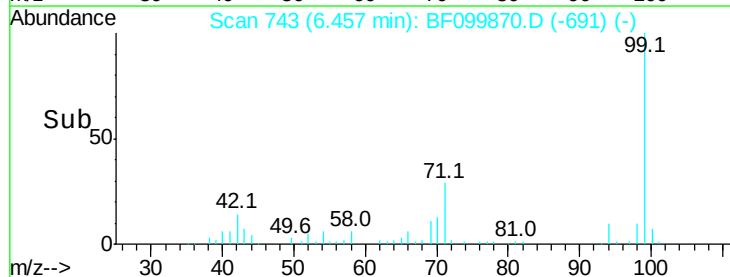
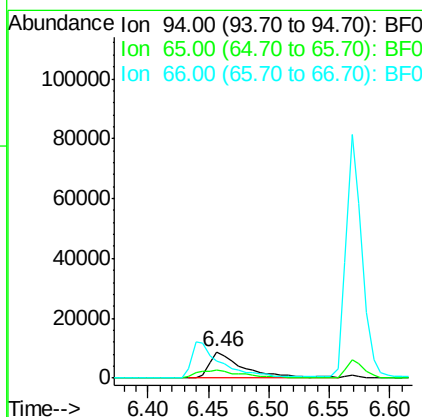
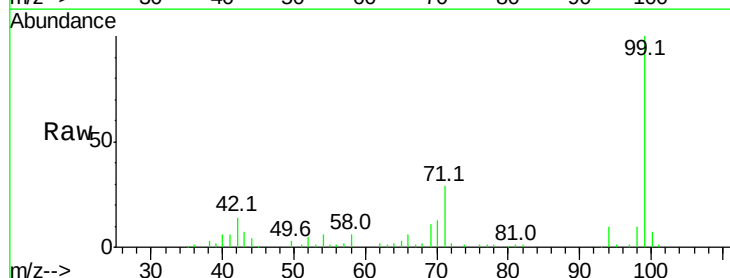
RT: 6.46 min Scan# 743

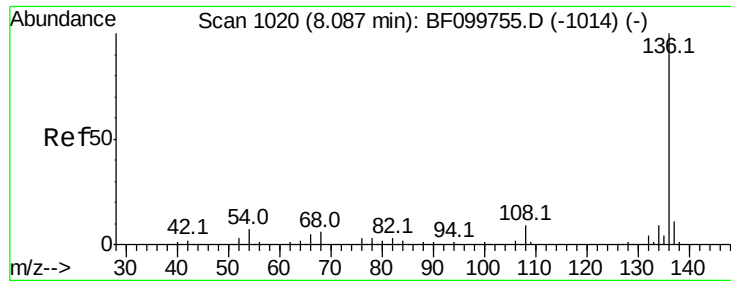
Delta R.T. 0.01 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		16781		
65	32.8	7.9	47.9		
66	62.3	16.2	56.2#		





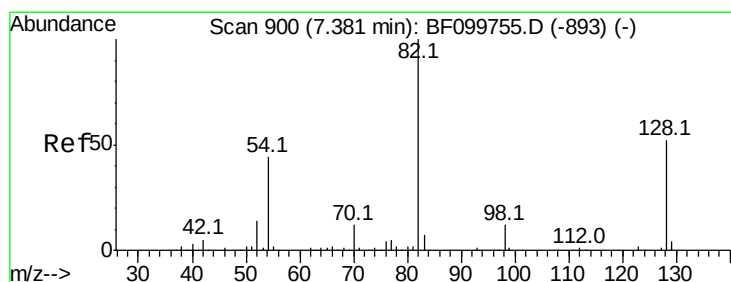
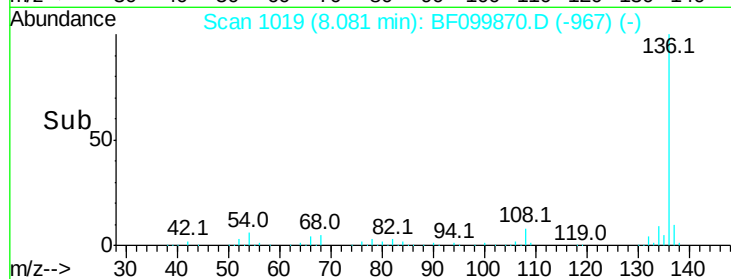
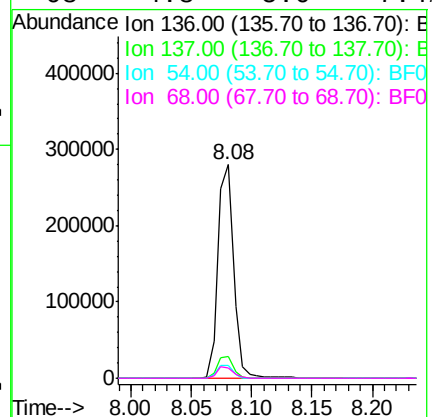
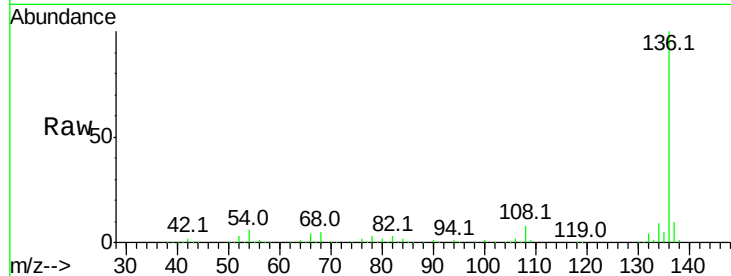
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.08 min Scan# 1019
Delta R.T. 0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampled :
DW-2

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.3	8.9	13.3
54	5.8	6.6	9.8#
68	4.8	5.0	7.4#

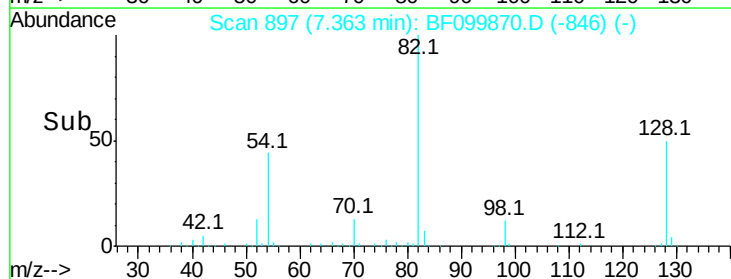
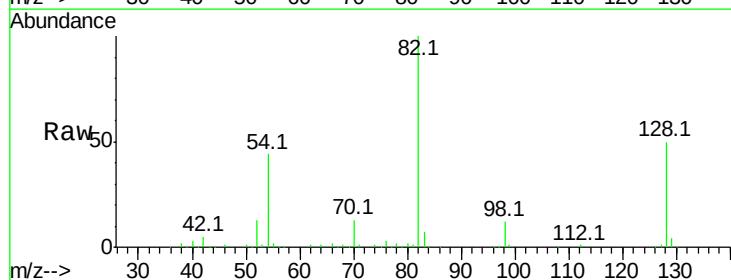
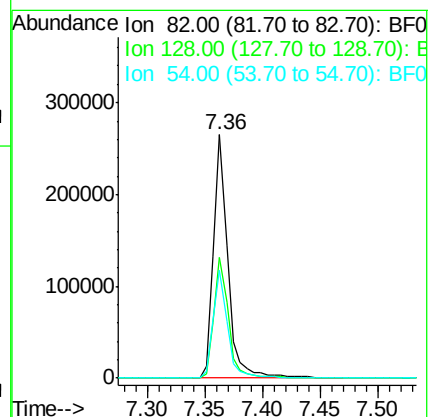
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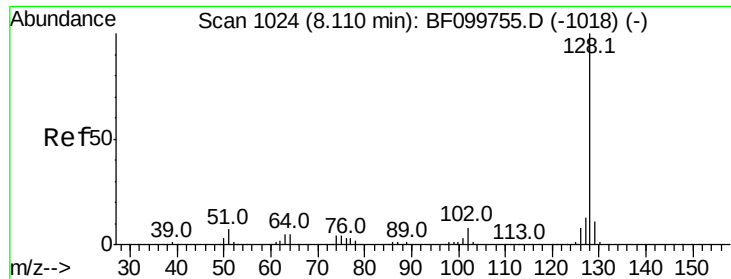
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#23
Nitrobenzene-d5
Concen: 59.497 ng
RT: 7.36 min Scan# 897
Delta R.T. 0.00 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	49.6	36.1	54.1
54	44.1	41.4	62.2





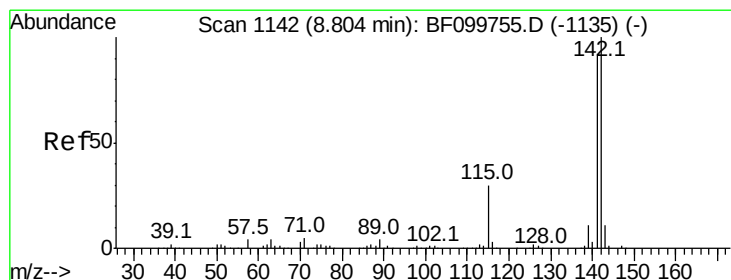
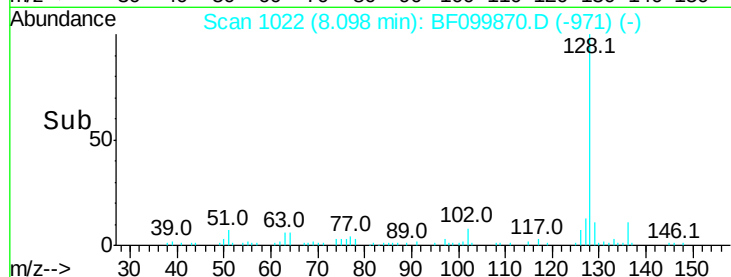
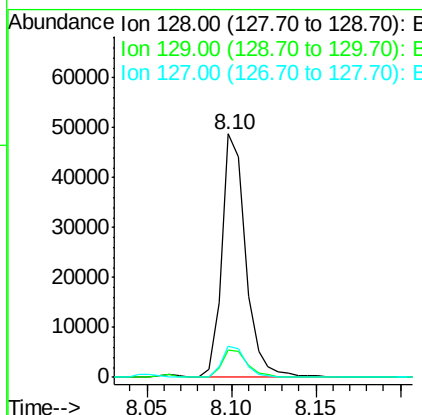
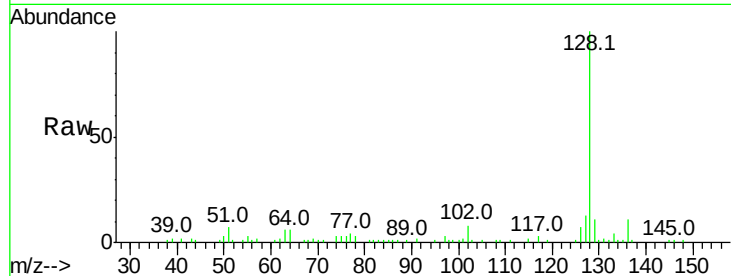
#31
Naphthalene
Concen: 4.001 ng
RT: 8.10 min Scan# 1022
Delta R.T. 0.00 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampleId :
DW-2

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.0	10.9	16.3

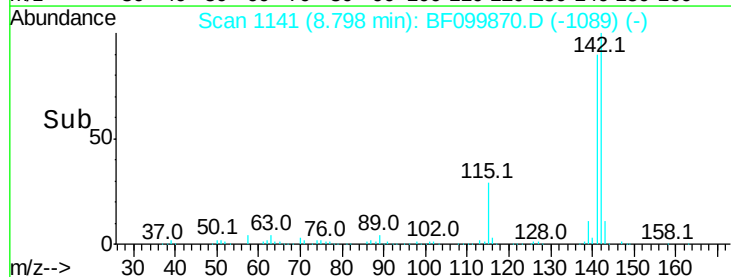
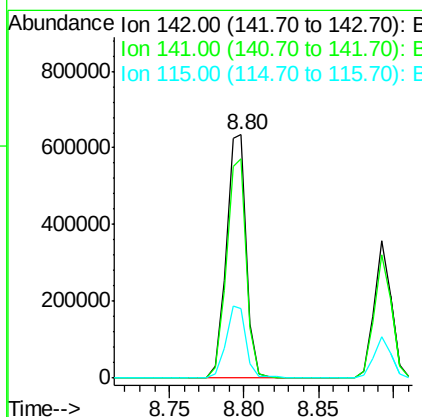
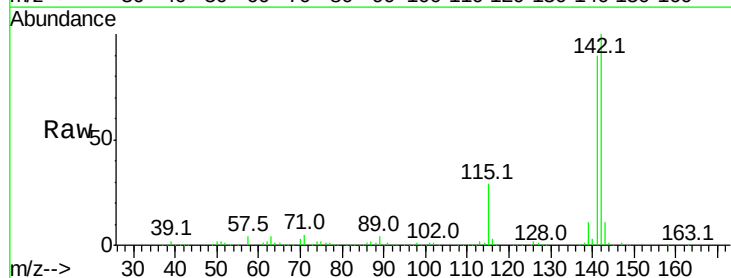
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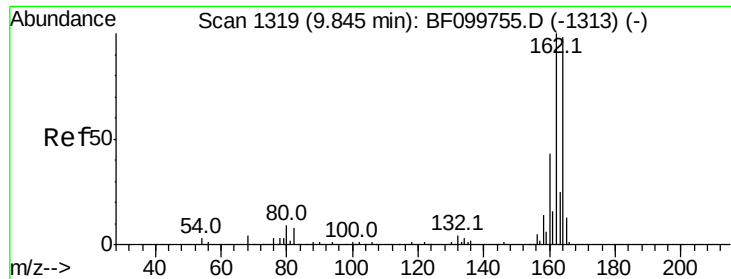
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#37
2-Methylnaphthalene
Concen: 74.918 ng
RT: 8.80 min Scan# 1141
Delta R.T. 0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.9	70.8	106.2
115	28.8	26.1	39.1





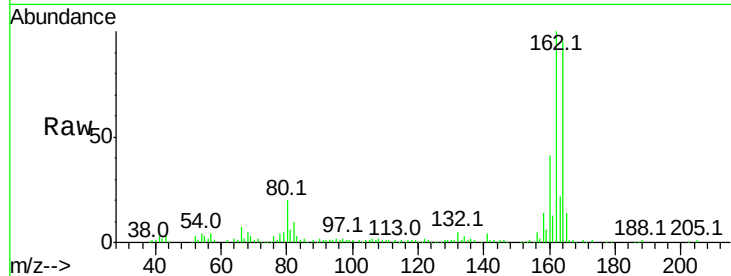
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. 0.00 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampled :
DW-2

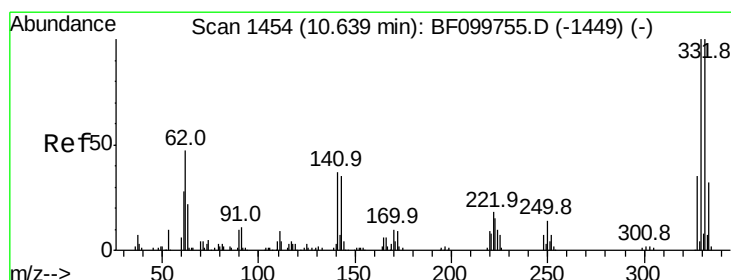
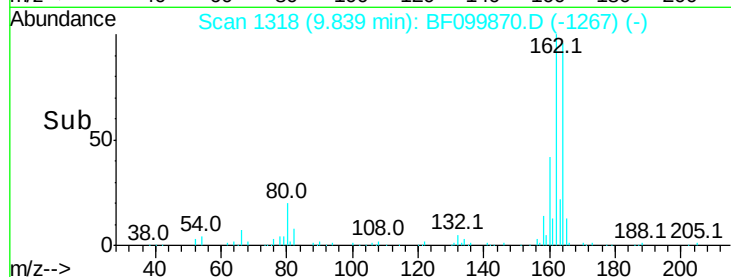
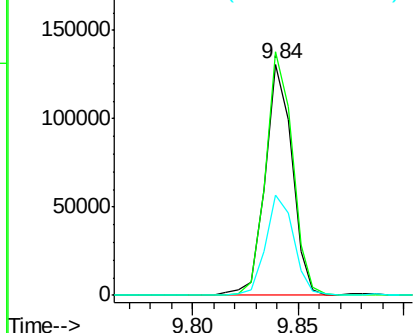
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.2	86.1	129.1	
160	43.4	38.3	57.5	

Manual Integrations
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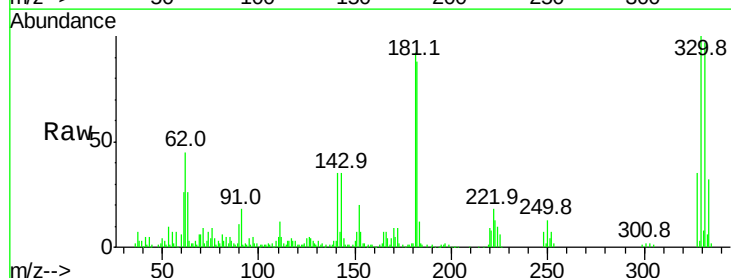


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

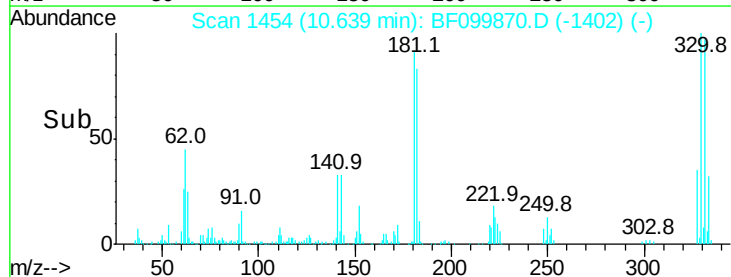
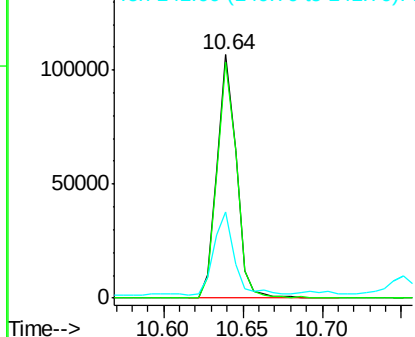


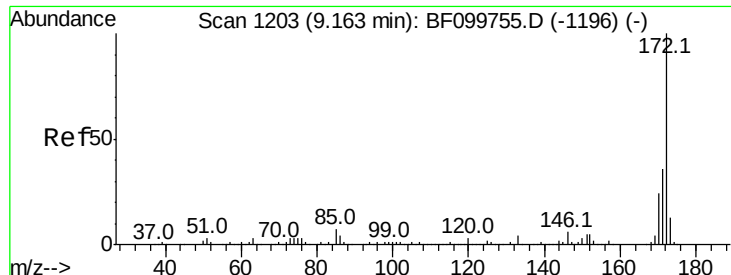
#41
2,4,6-Tribromophenol
Concen: 85.046 ng
RT: 10.64 min Scan# 1454
Delta R.T. 0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.3	77.0	115.6	
141	35.2	29.9	44.9	



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





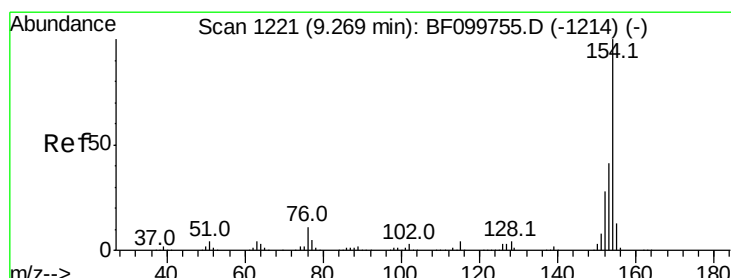
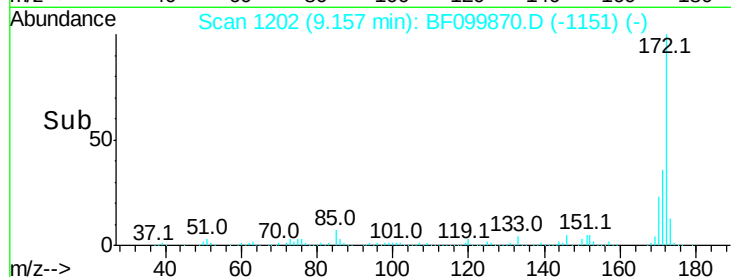
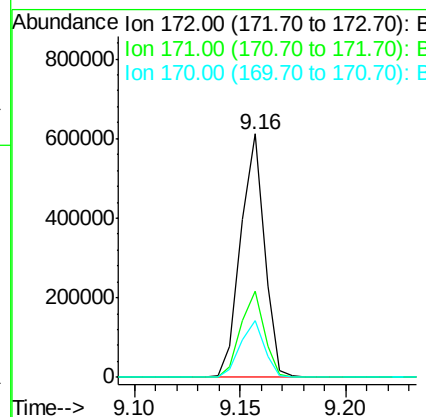
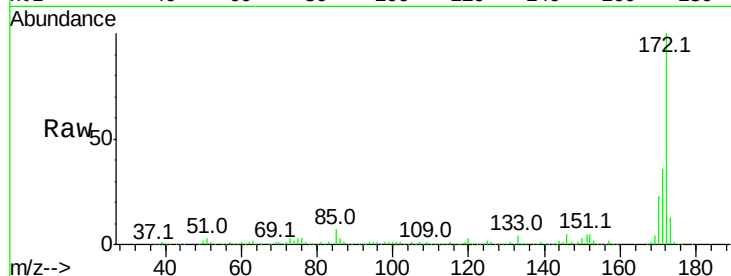
#44
2-Fluorobiphenyl
Concen: 62.543 ng
RT: 9.16 min Scan# 1202
Delta R.T. 0.00 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampleId :
DW-2

Tot Ion	Ratio	Resp	Lower	Upper
172	100	474480		
171	35.6	29.7	44.5	
170	23.1	19.6	29.4	

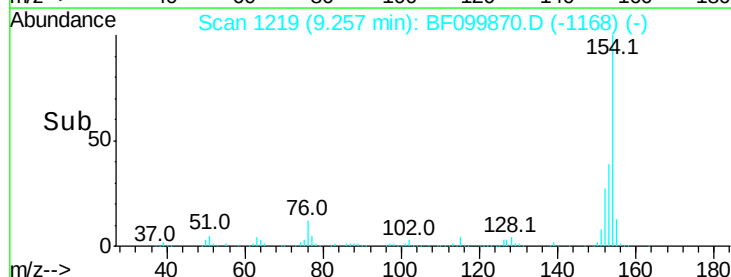
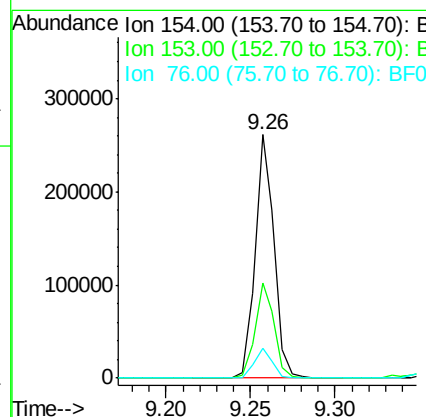
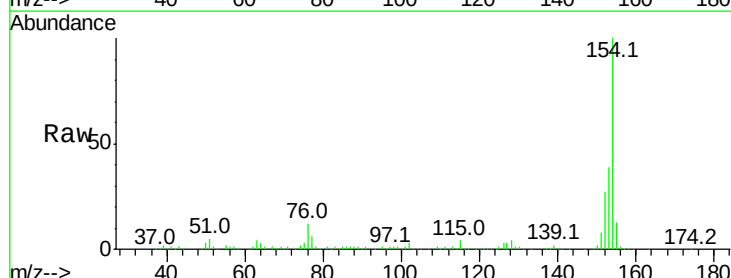
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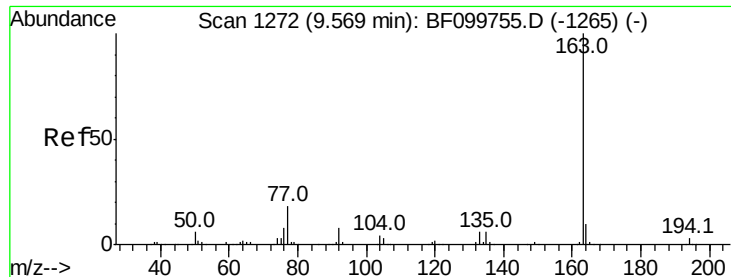
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#45
1,1'-Biphenyl
Concen: 19.246 ng
RT: 9.26 min Scan# 1219
Delta R.T. 0.00 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	203793		
153	38.9	21.3	61.3	
76	12.0	0.0	34.0	





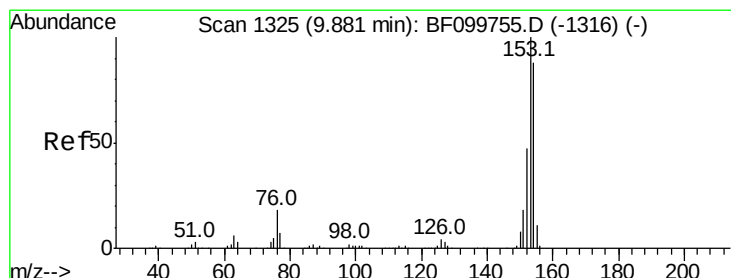
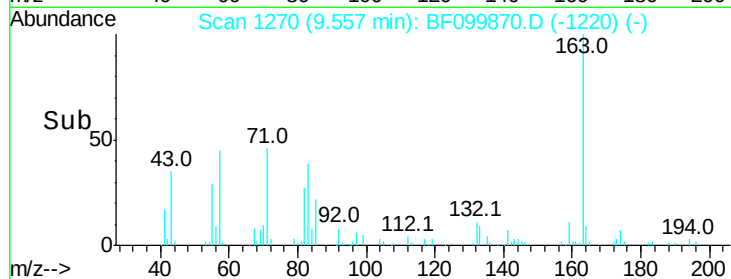
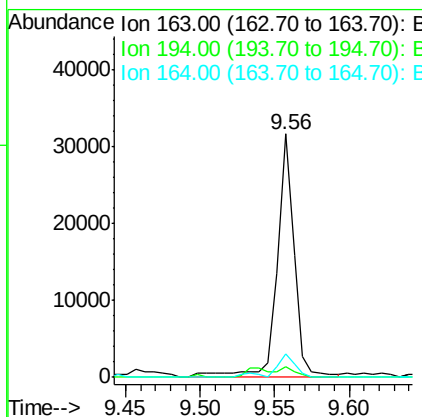
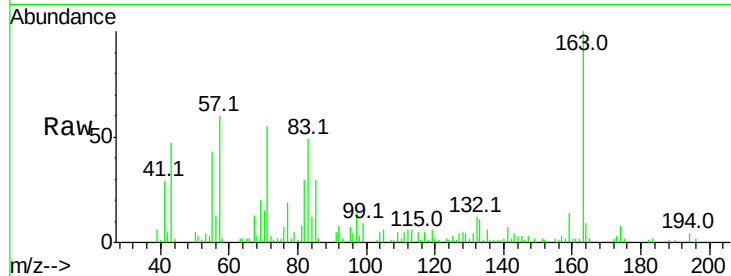
#49
Dimethylphthalate
Concen: 2.779 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampled :
DW-2

Tot Ion	Ratio	Resp	Lower	Upper
163	100	25758		
194	4.2		2.7	4.1#
164	9.4		8.2	12.2

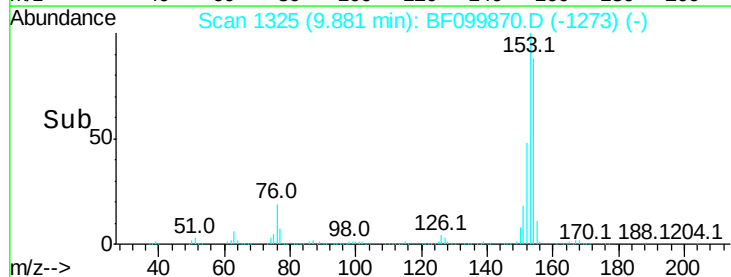
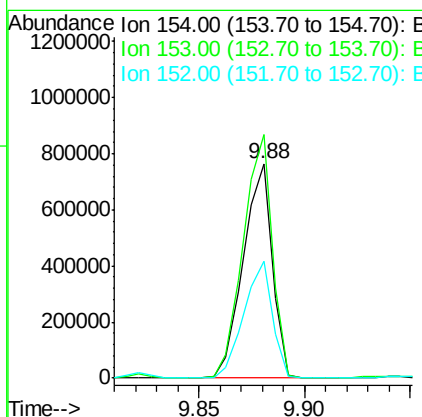
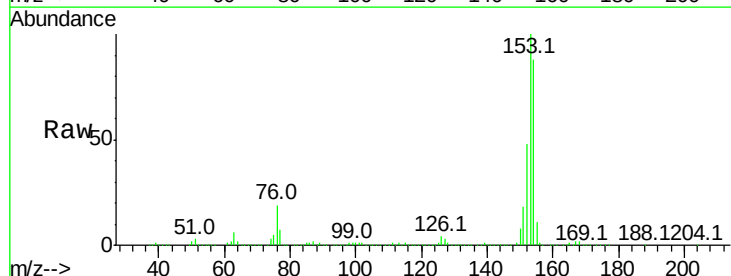
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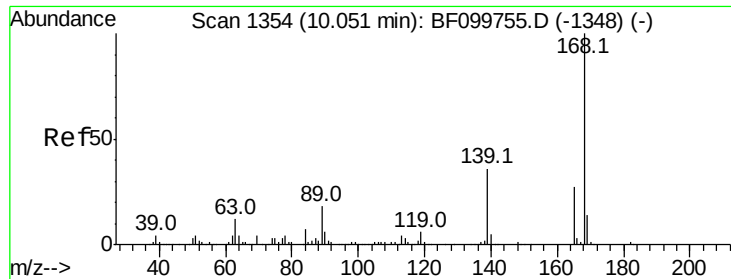
Sohil
10/27/2017 5:34:13 PM



#51
Acenaphthene
Concen: 100.658 ng
RT: 9.88 min Scan# 1325
Delta R.T. 0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	728448		
153	113.3		91.2	136.8
152	54.5		43.8	65.8





#54

Dibenzofuran

Concen: 86.520 ng

RT: 10.05 min Scan# 1354

Delta R.T. 0.01 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Instrument :

BNA_F

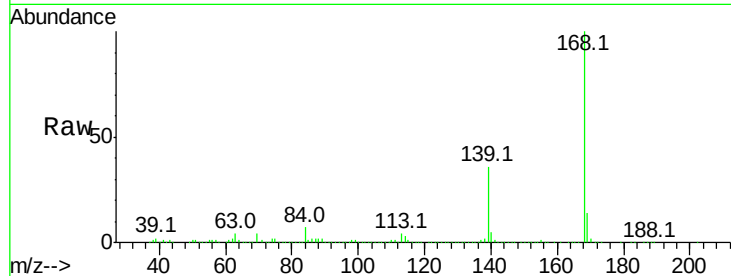
ClientSampled :

DW-2

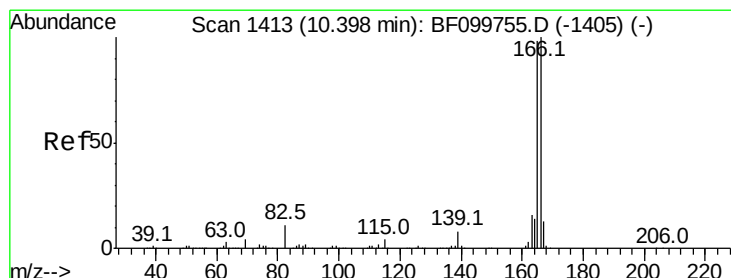
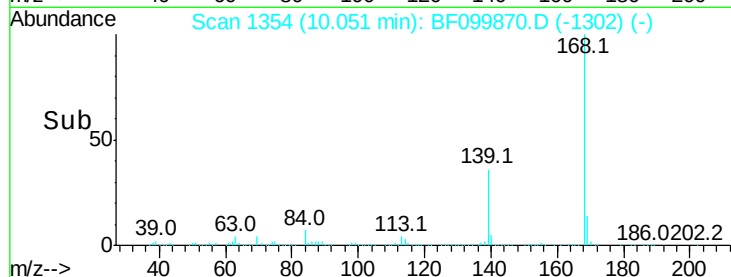
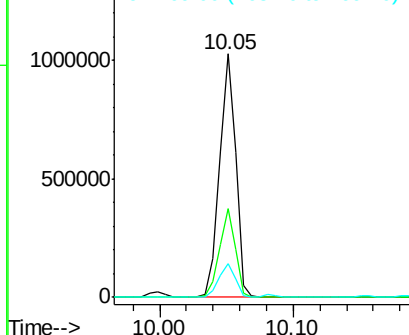
Tot Ion:	168	Resp:	883827
Ion Ratio	Lower	Upper	
168	100		
139	36.2	30.1	45.1
169	13.9	10.9	16.3

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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: 118.588 ng

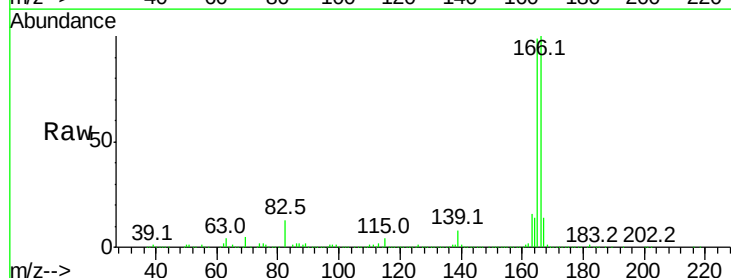
RT: 10.40 min Scan# 1413

Delta R.T. 0.01 min

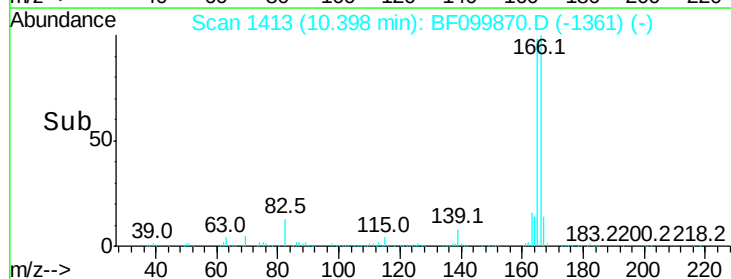
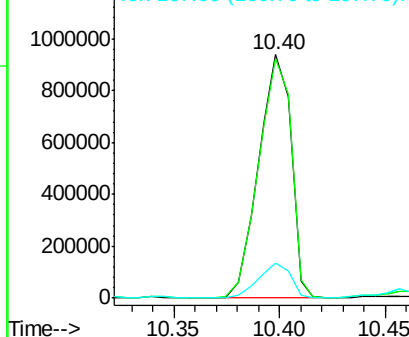
Lab File: BF099870.D

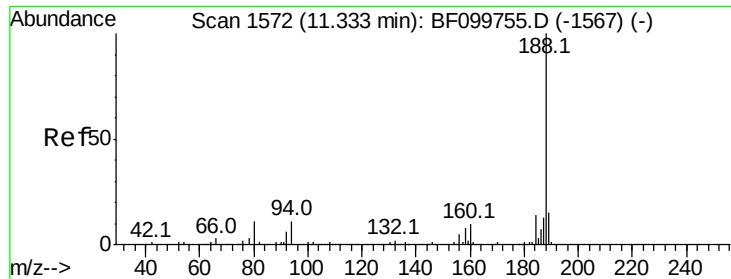
Acq: 26 Oct 2017 19:48

Tgt Ion:	166	Resp:	1003022
Ion Ratio	Lower	Upper	
166	100		
165	98.5	79.8	119.8
167	14.2	10.6	16.0



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





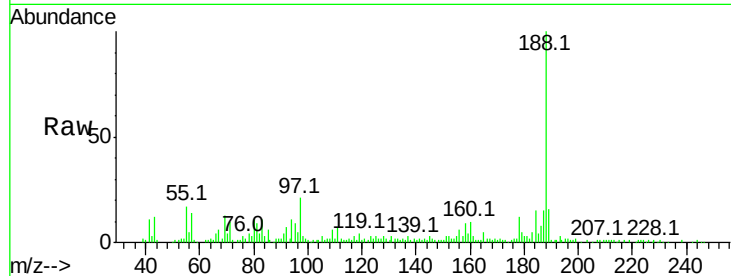
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.01 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampled :
DW-2

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.3	8.5	12.7
80	11.1	9.2	13.8

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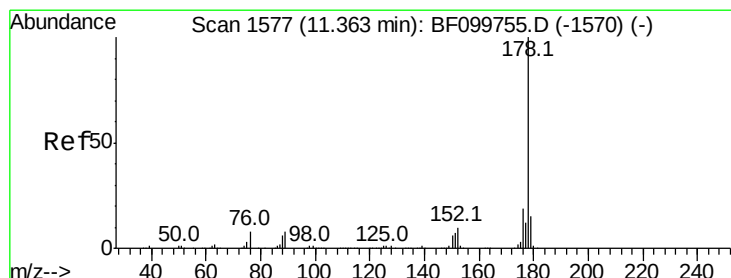
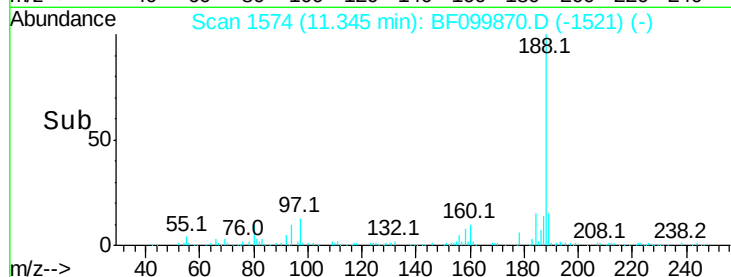
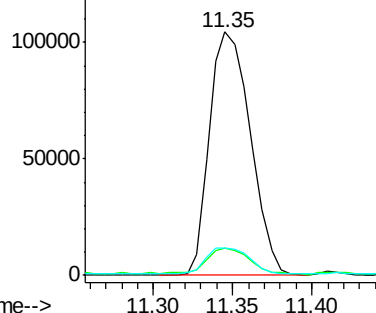
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Abundance Ion 188.00 (187.70 to 188.70): E

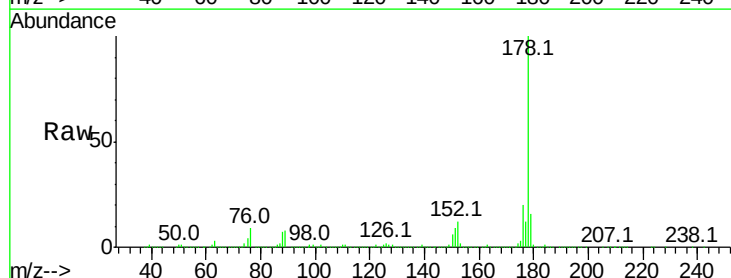
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70
Phenanthrene
Concen: 399.349 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.04 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

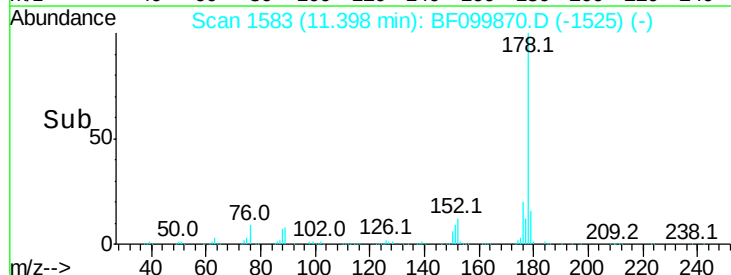
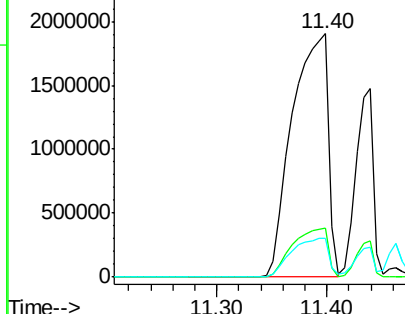
Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.1	15.8	23.8
179	16.1	13.0	19.6

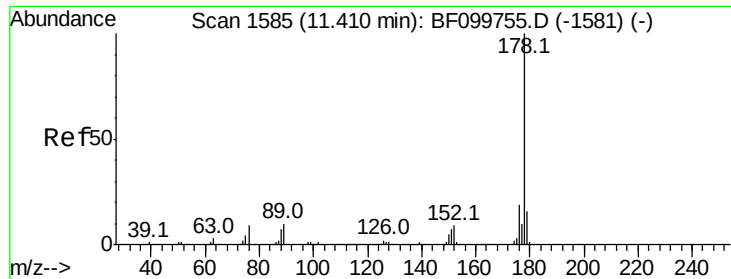


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





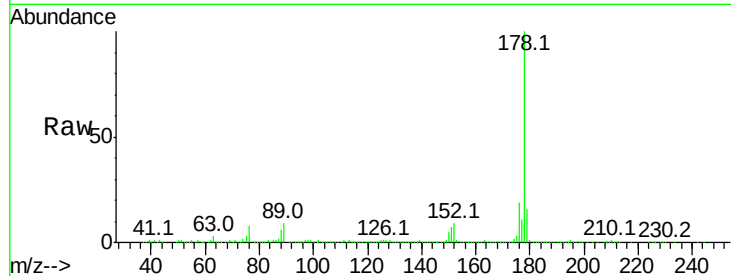
#71
 Anthracene
 Concen: 145.274 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. 0.03 min
 Lab File: BF099870.D
 Acq: 26 Oct 2017 19:48

Instrument :
 BNA_F
 ClientSampleID :
 DW-2

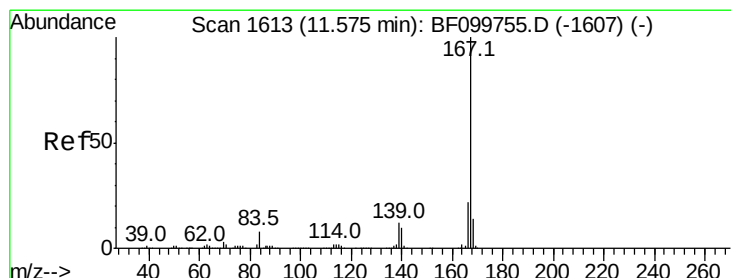
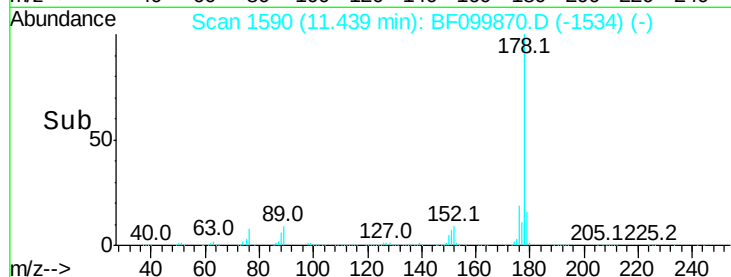
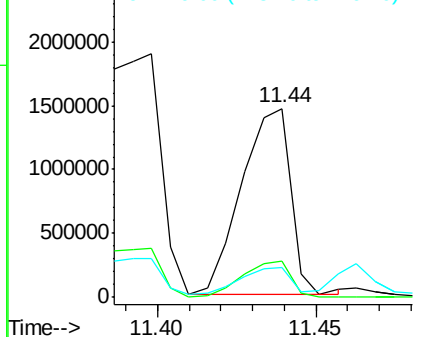
Tot Ion:178 Resp: 1565814
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.4 23.2
 179 16.1 12.6 19.0

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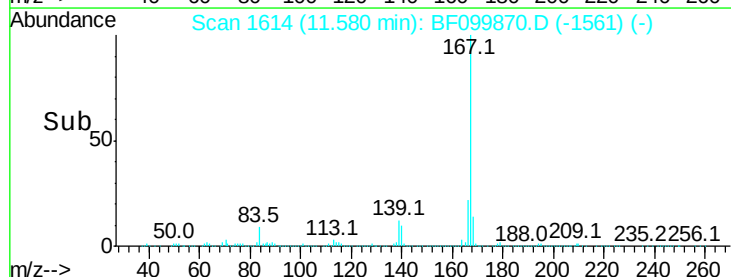
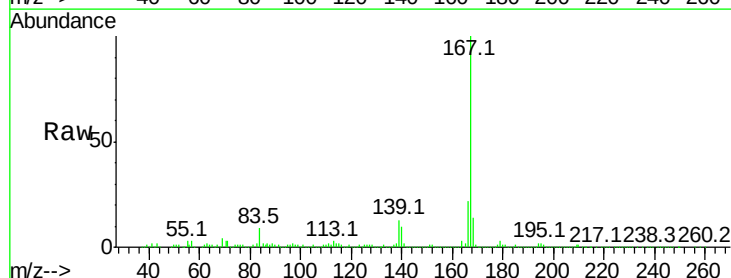
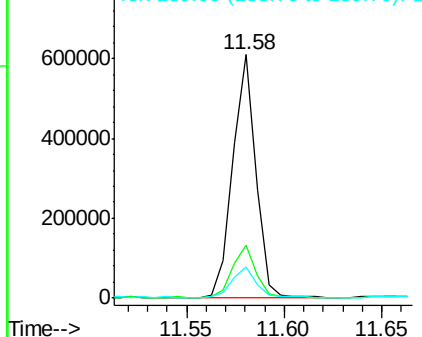
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

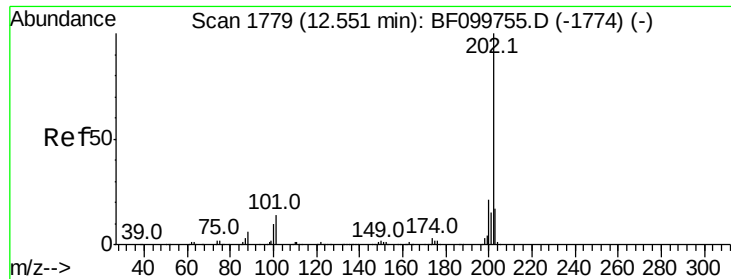


#72
 Carbazole
 Concen: 48.908 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.01 min
 Lab File: BF099870.D
 Acq: 26 Oct 2017 19:48

Tgt Ion:167 Resp: 495725
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.6 26.4
 139 12.5 10.9 16.3

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





#74

Fluoranthene

Concen: 407.891 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.05 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Instrument :

BNA_F

ClientSampled :

DW-2

Tot Ion:202 Resp: 4501099

Ion Ratio Lower Upper

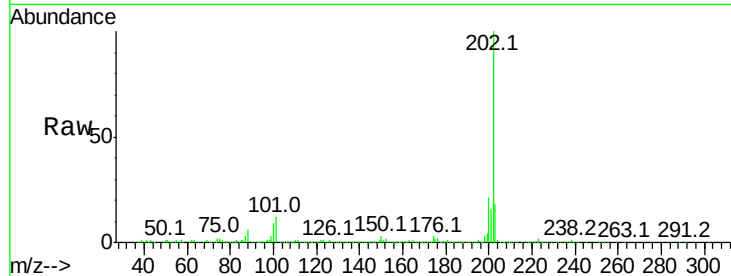
202 100

101 12.3 0.0 34.1

203 18.3 0.0 38.1

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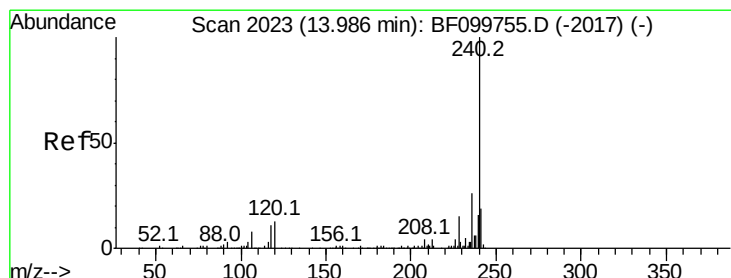
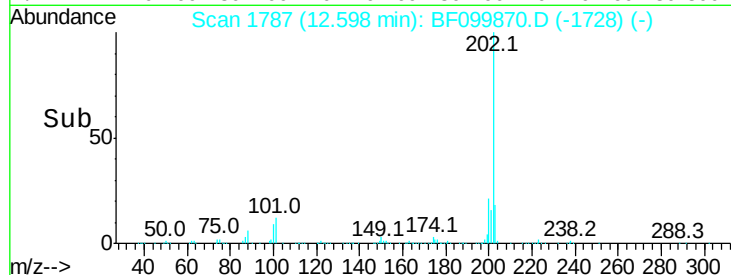
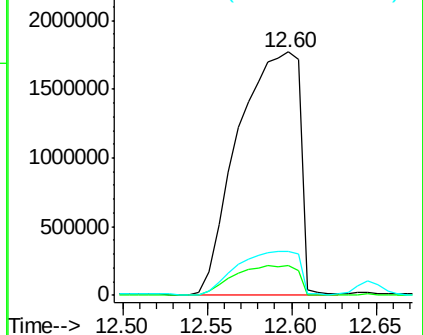
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.04 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Tgt Ion:240 Resp: 114290

Ion Ratio Lower Upper

240 100

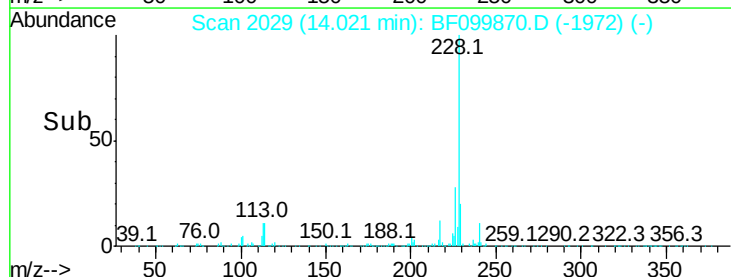
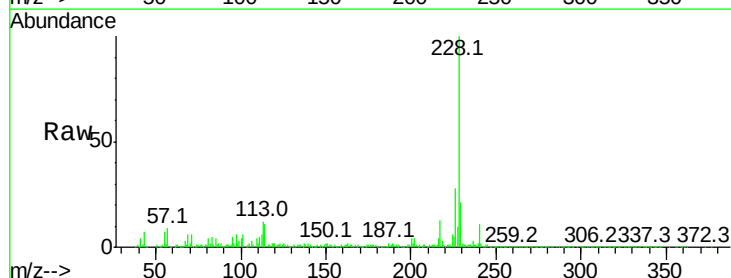
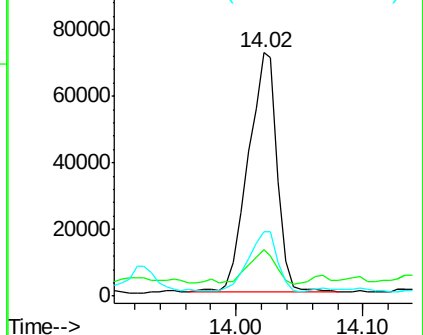
120 19.1 9.5 14.3#

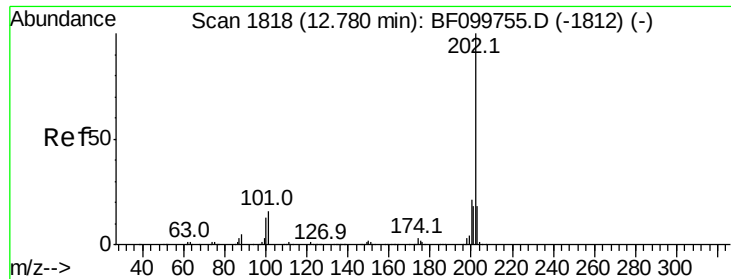
236 26.2 20.7 31.1

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

Pvrene

Concen: 401.194 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.05 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Instrument :

BNA_F

ClientSampled :

DW-2

Tot Ion:202 Resp: 3486591

Ion Ratio Lower Upper

202 100

200 22.2 17.4 26.2

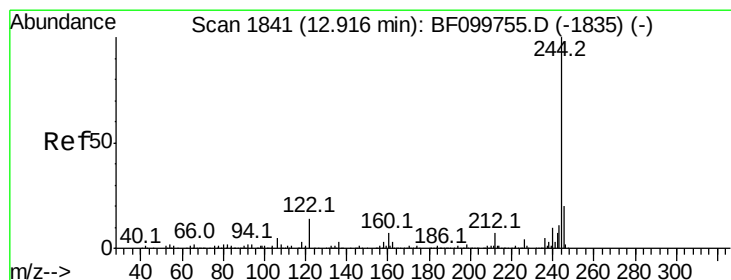
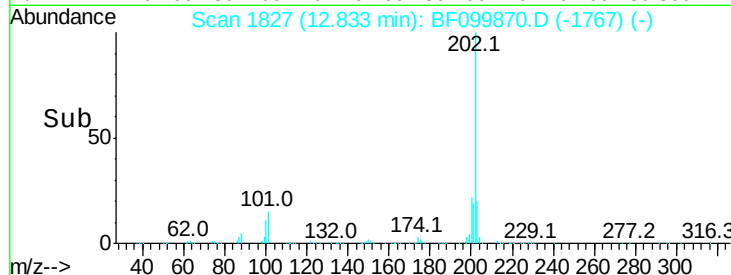
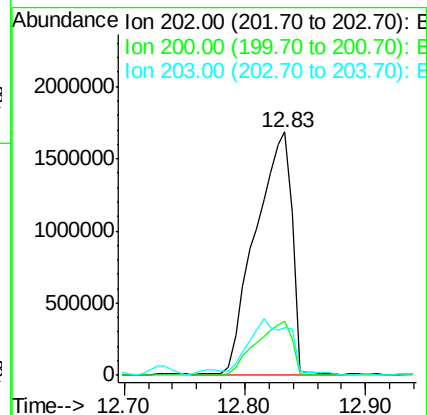
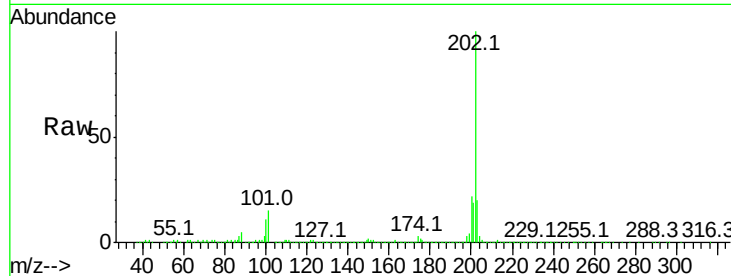
203 19.9 14.3 21.5

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#78

Terphenyl-d14

Concen: 75.671 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.02 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

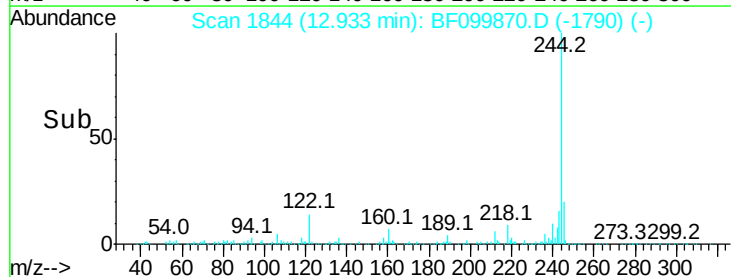
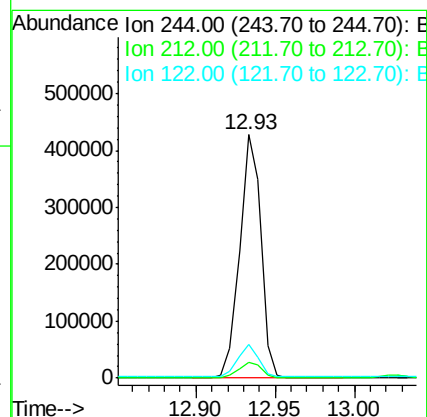
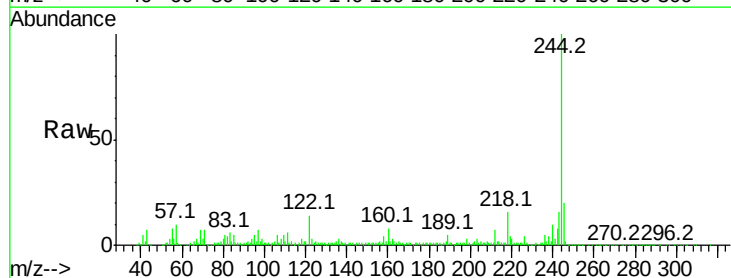
Tgt Ion:244 Resp: 395744

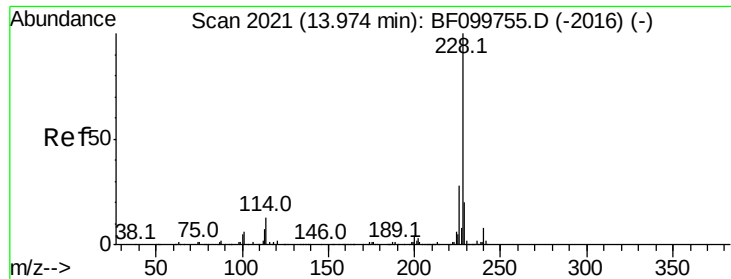
Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

122 14.0 11.0 16.4





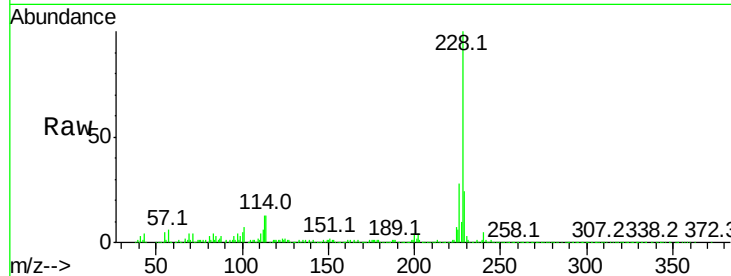
#80
Benzo(a)anthracene
Concen: 231.537 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.04 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampleId :
DW-2

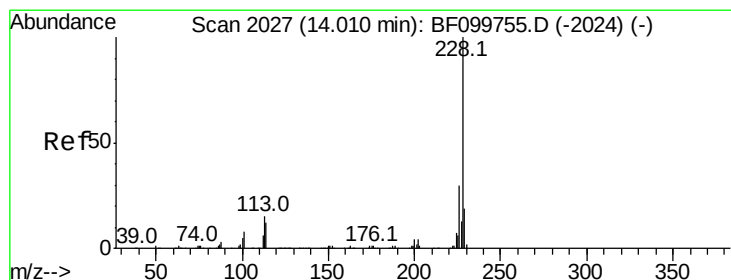
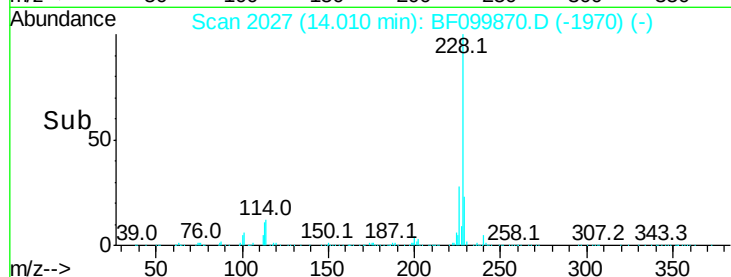
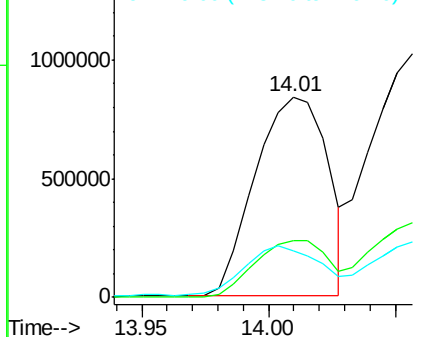
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	23.5	15.8	23.6

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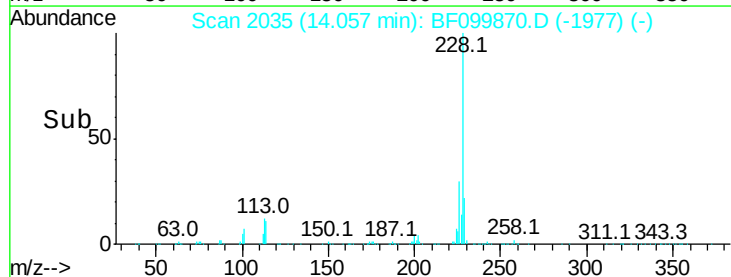
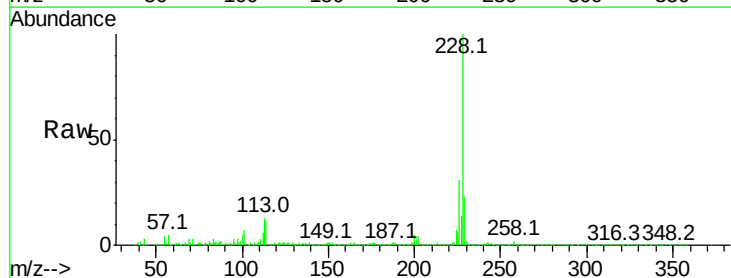
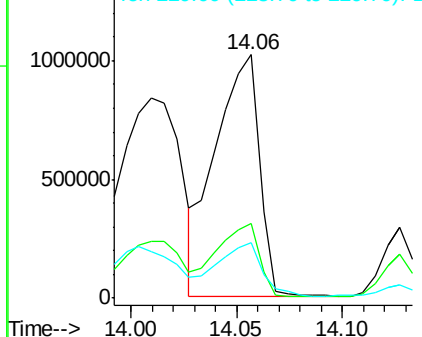
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

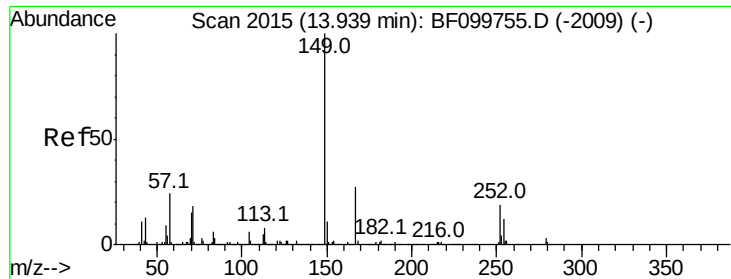


#82
Chrysene
Concen: 215.949 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.04 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	22.7	16.2	24.4

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





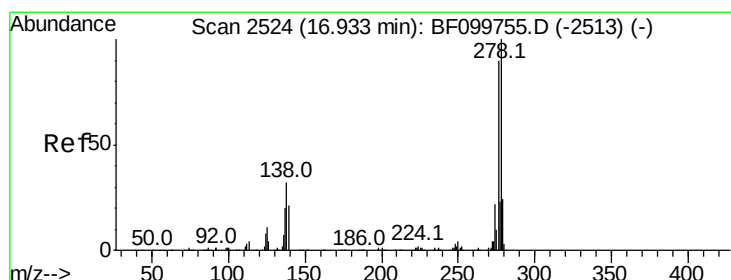
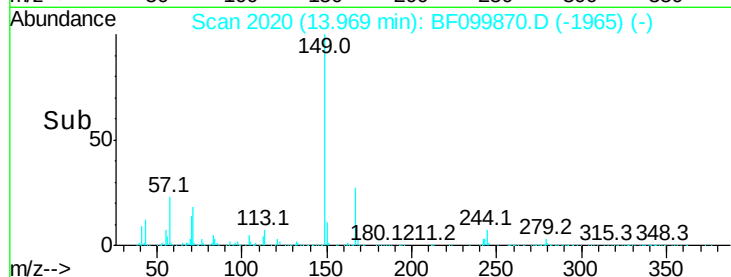
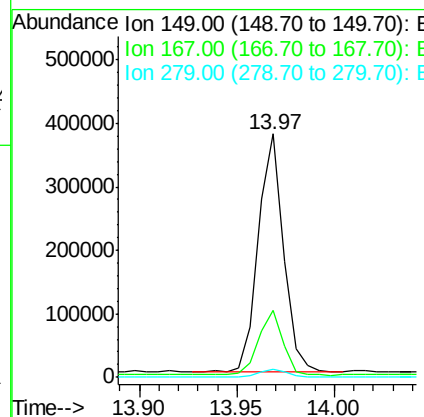
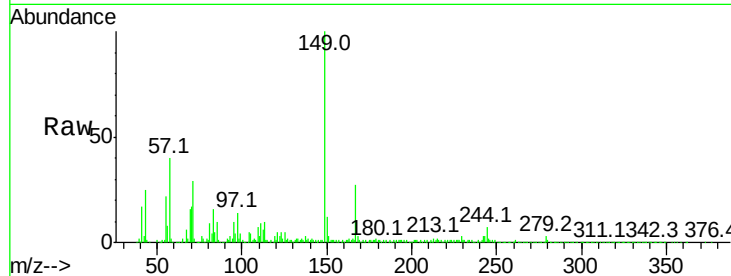
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 55.859 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. 0.02 min
 Lab File: BF099870.D
 Acq: 26 Oct 2017 19:48

Instrument :
 BNA_F
 ClientSampleID :
 DW-2

Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	27.4	21.3	31.9	
279	3.4	3.0	4.4	

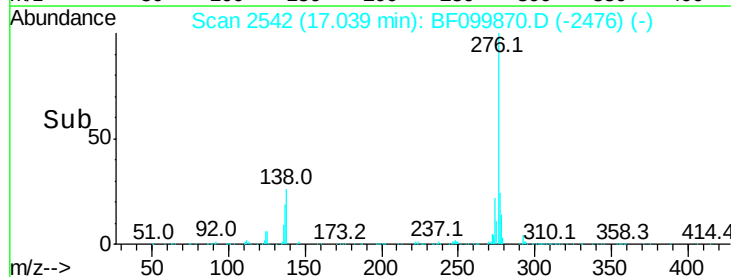
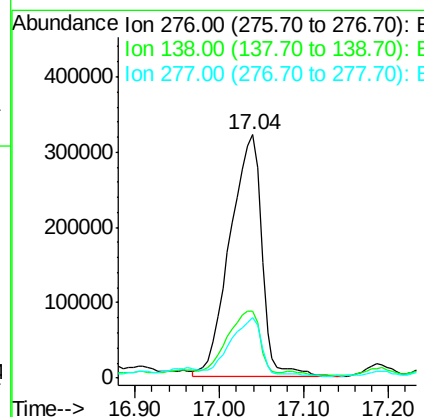
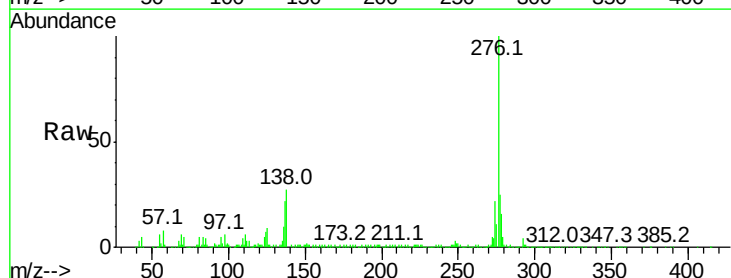
Manual Integrations
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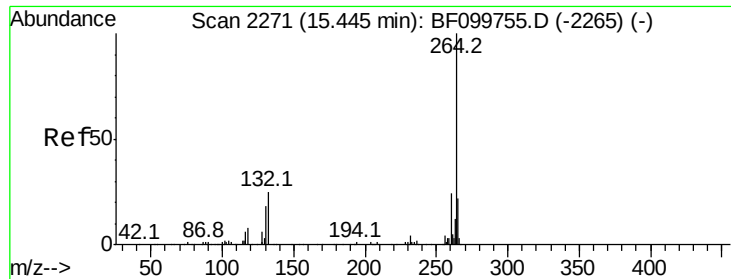
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 133.841 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.09 min
 Lab File: BF099870.D
 Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	26.4	25.0	37.6	
277	23.7	20.1	30.1	





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.52 min Scan# 2284

Delta R.T. 0.06 min

Lab File: BF099870.D

Acq: 26 Oct 2017 19:48

Instrument :

BNA_F

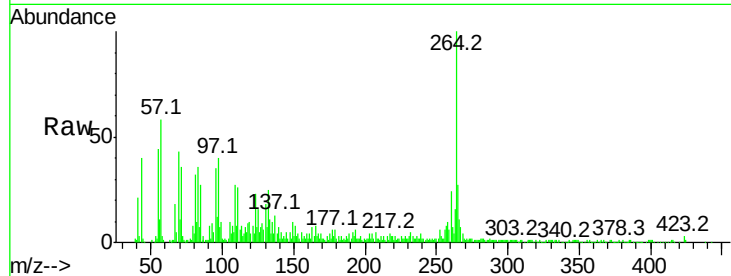
ClientSampled :

DW-2

Tot Ion:	264	Resp:	138412
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.2	28.8
265	27.2	17.5	26.3#

Manual Integrations
APPROVED

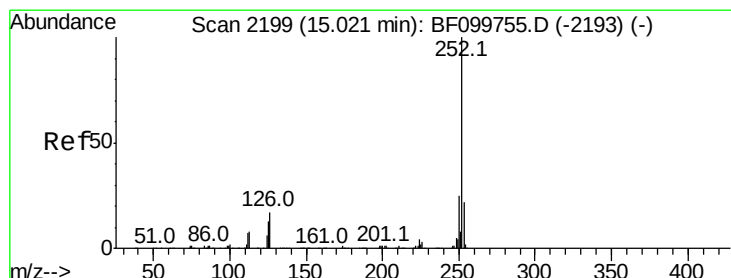
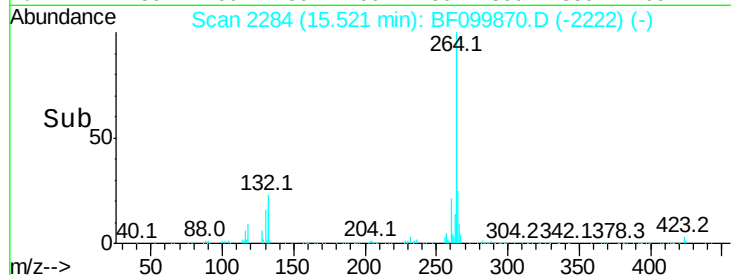
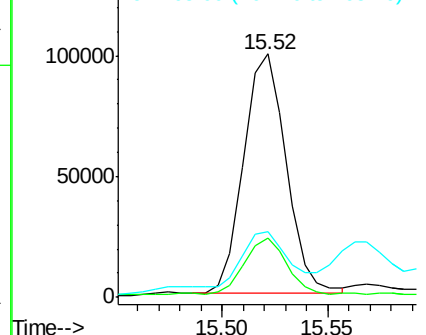
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Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 256.796 ng m

RT: 15.09 min Scan# 2211

Delta R.T. 0.06 min

Lab File: BF099870.D

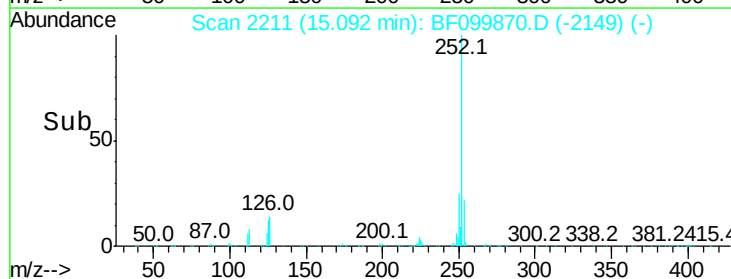
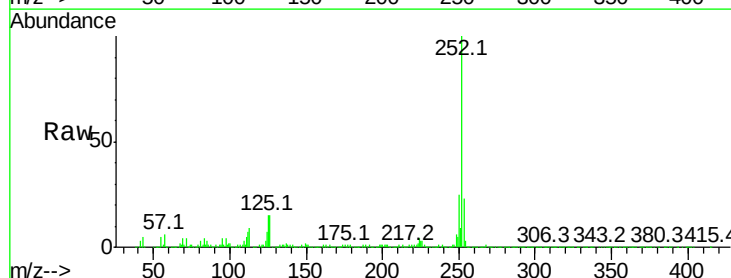
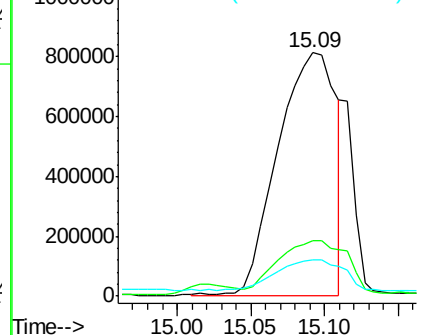
Acq: 26 Oct 2017 19:48

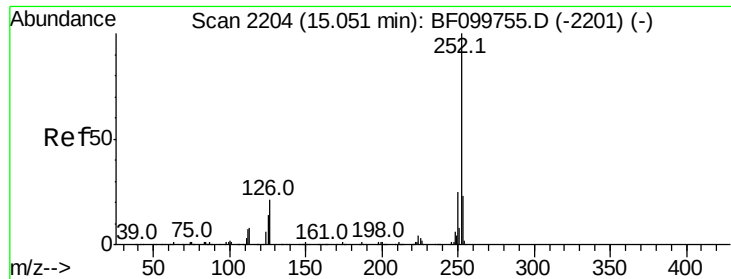
Tgt Ion:	252	Resp:	2244415
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	14.7	9.0	13.6#

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





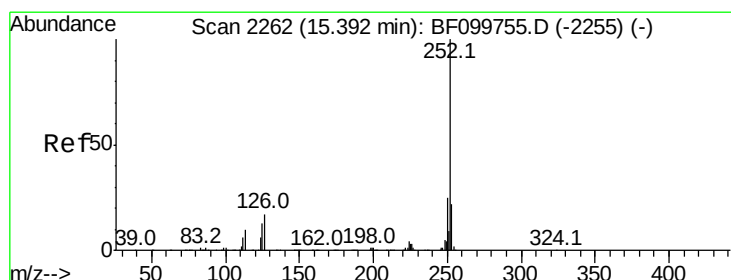
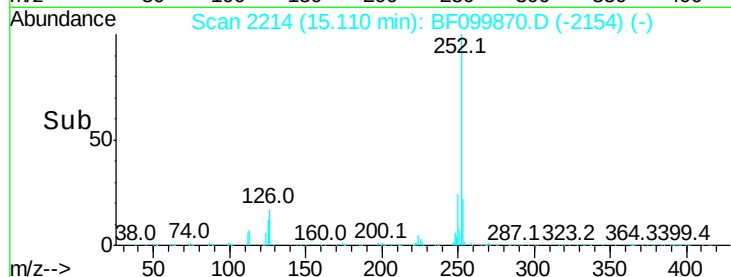
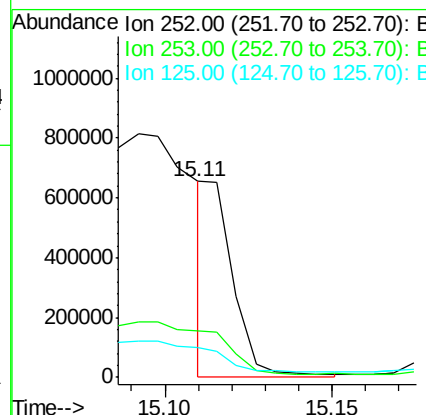
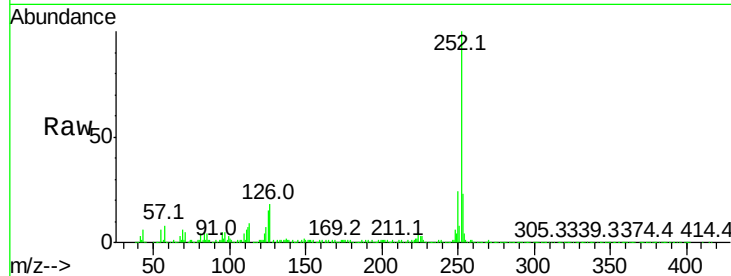
#88
Benzo(k)fluoranthene
Concen: 43.689 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.05 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampleId :
DW-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	15.3	10.2	15.2#

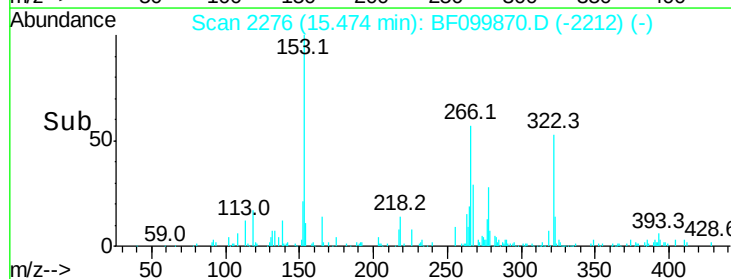
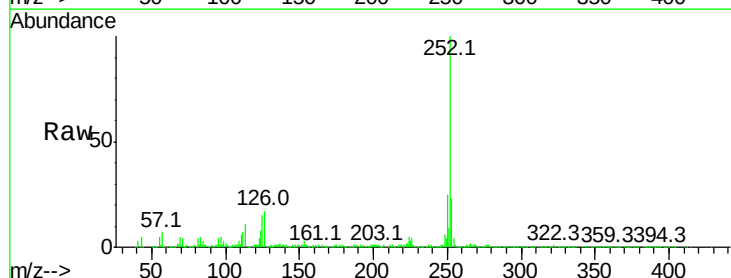
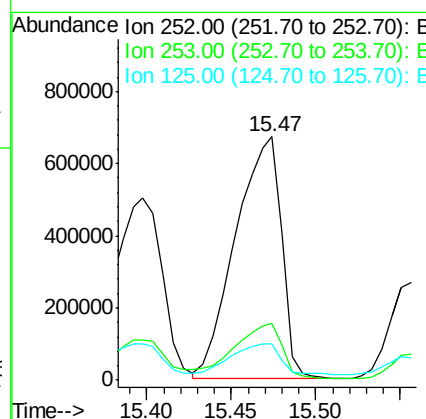
Manual Integrations
APPROVED

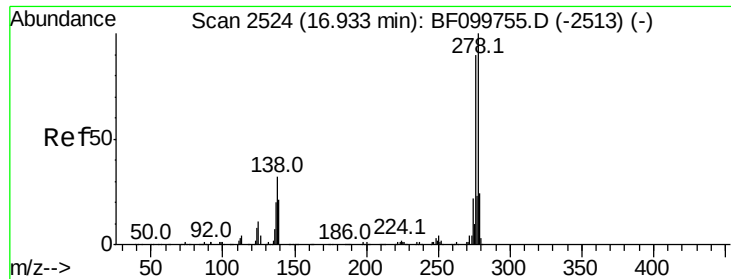
Sohil
10/27/2017 5:34:13 PM



#89
Benzo(a)pyrene
Concen: 162.594 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.08 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	15.0	9.8	14.6#





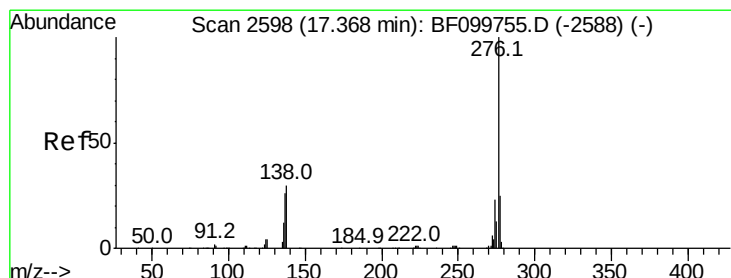
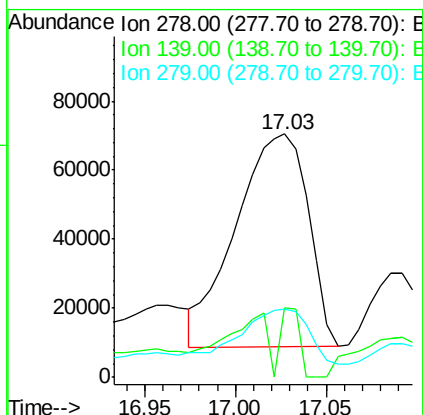
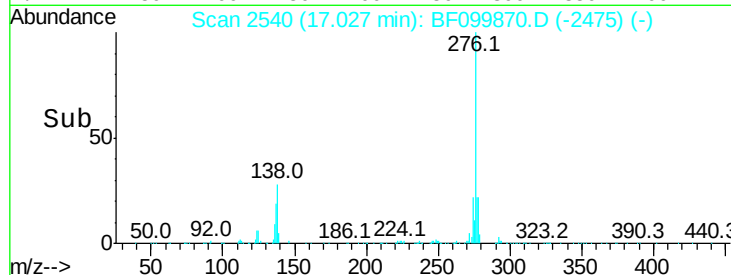
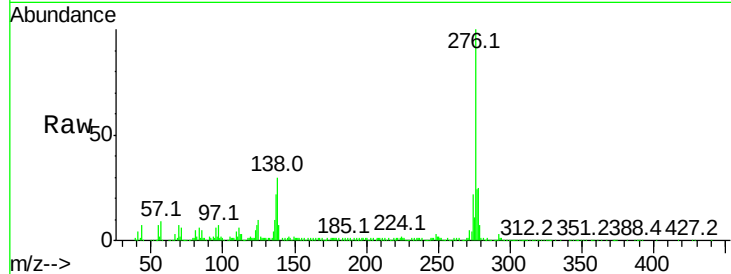
#90
Dibenzo(a,h)anthracene
Concen: 24.648 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.08 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Instrument :
BNA_F
ClientSampleId :
DW-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	28.7	15.9	23.9#
279	27.8	19.0	28.4

Manual Integrations
APPROVED

Sohil
10/27/2017 5:34:13 PM



#91
Benzo(g,h,i)perylene
Concen: 109.389 ng
RT: 17.50 min Scan# 2620
Delta R.T. 0.11 min
Lab File: BF099870.D
Acq: 26 Oct 2017 19:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	17.9	26.9
138	30.8	21.8	32.8

