

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF098155.D
 Acq On : 30 Aug 2017 13:04
 Operator : SJ/JU
 Sample : I4979-04DL 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Manual Integrations
 APPROVED

Sohil

Quant Time: Aug 30 13:35:25 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	8/30/2017 6:49:07 PM
1) 1,4-Dichlorobenzene-d4	6.73	152	52514	20.00	ng	-0.02	
21) Naphthalene-d8	8.02	136	210491	20.00	ng	-0.02	
38) Acenaphthene-d10	9.77	164	90853	20.00	ng	-0.02	
63) Phenanthrene-d10	11.25	188	141173	20.00	ng	-0.01	
75) Chrysene-d12	13.88	240	115525	20.00	ng	-0.02	
86) Perylene-d12	15.30	264	105229	20.00	ng	-0.01	
System Monitoring Compounds							
5) 2-Fluorophenol	5.33	112	13209	3.83	ng	-0.02	
7) Phenol-d6	6.36	99	19982	4.26	ng	-0.02	
23) Nitrobenzene-d5	7.29	82	12213	3.15	ng	-0.03	
41) 2,4,6-Tribromophenol	10.56	330	1719	2.18	ng	-0.02	
44) 2-Fluorobiphenyl	9.09	172	18961	3.07	ng	-0.02	
78) Terphenyl-d14	12.83	244	10634	1.92	ng	-0.02	
Target Compounds							
31) Naphthalene	8.03	128	37429	3.425	ng		Qvalue # 90
37) 2-Methylnaphthalene	8.73	142	27193m	4.059	ng		
51) Acenaphthene	9.80	154	344042	56.746	ng		97
54) Dibenzofuran	9.97	168	320112	39.396	ng		# 96
57) Fluorene	10.32	166	330671	52.636	ng		96
70) Phenanthrene	11.28	178	746879	99.283	ng		100
71) Anthracene	11.33	178	240856	31.567	ng		99
74) Fluoranthene	12.46	202	220431	28.073	ng		99
77) Pyrene	12.69	202	169451	17.934	ng		97
80) Benzo(a)anthracene	13.87	228	26483	3.825	ng		97
82) Chrysene	13.91	228	22214m	3.225	ng		

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

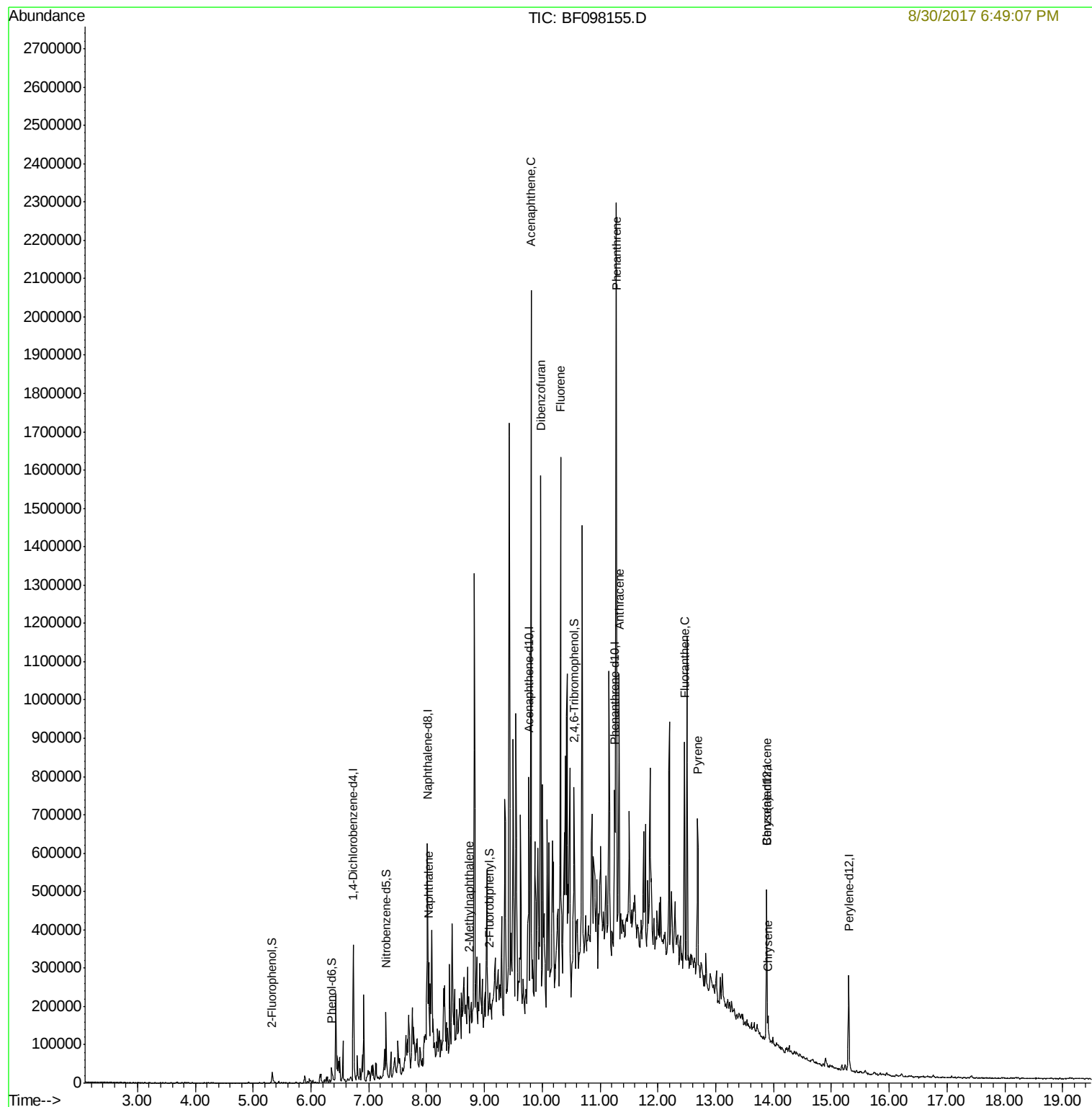
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
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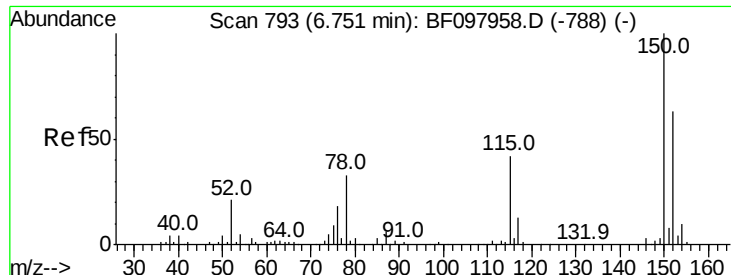
Instrument :
BNA_F
ClientSampleId :
TP-4DL

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Quant Time: Aug 30 13:35:25 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

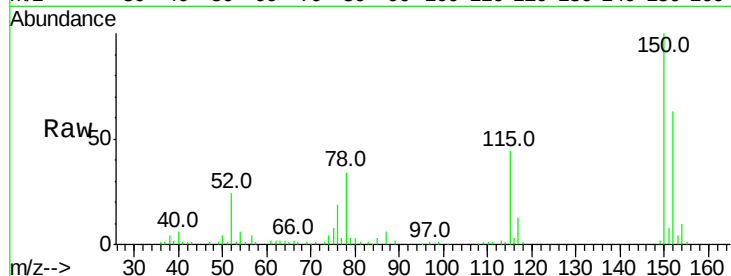
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	126.2	189.2
115	70.8	52.2	78.2

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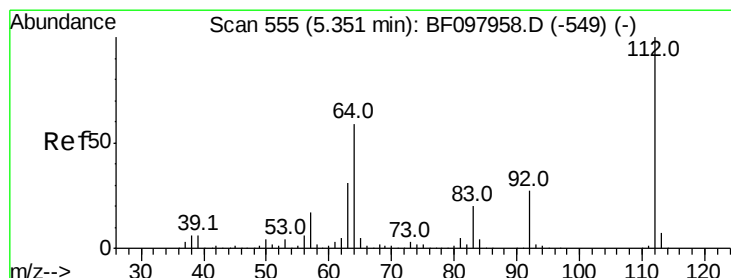
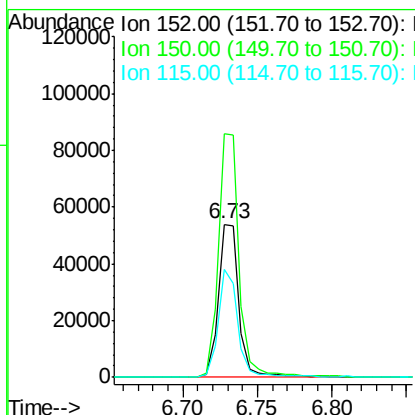
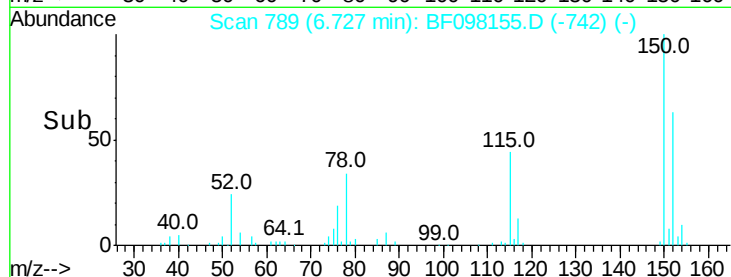
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

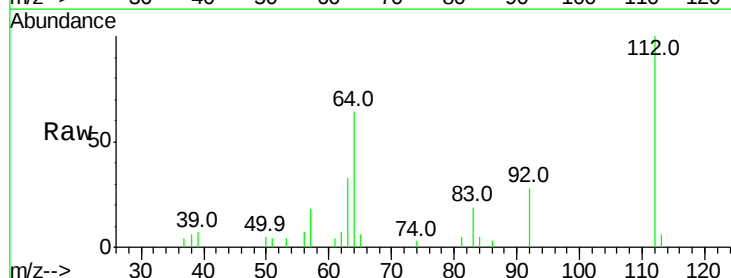
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#5

2-Fluorophenol
Concen: 3.826 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.2	46.0	69.0
63	33.0	23.4	35.0

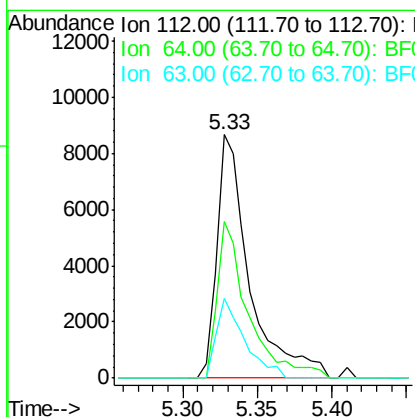
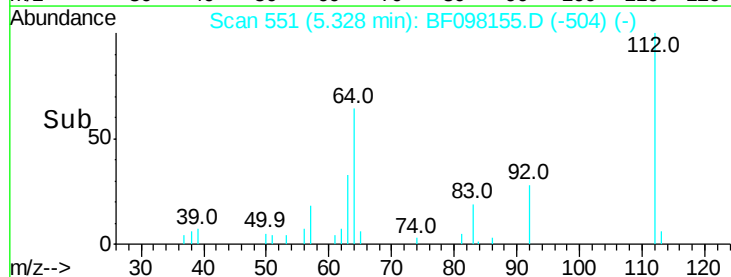


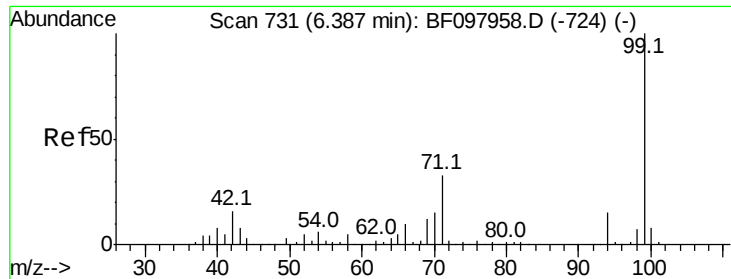
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.260 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

Instrument :

BNA_F

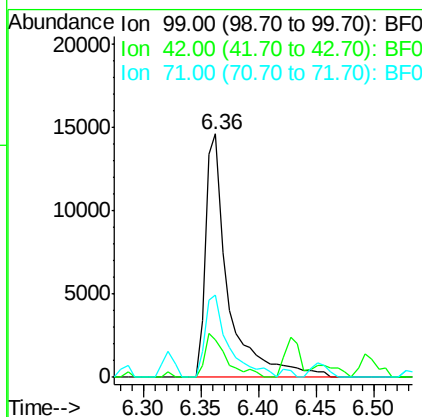
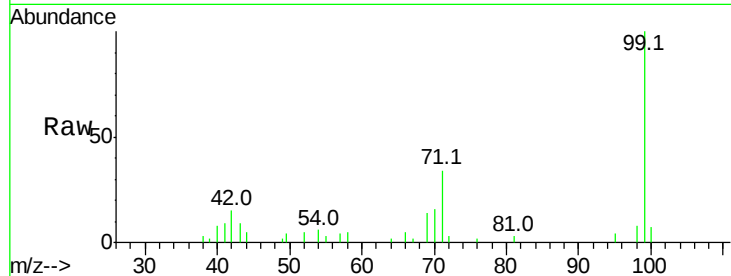
ClientSampleId :

TP-4DL

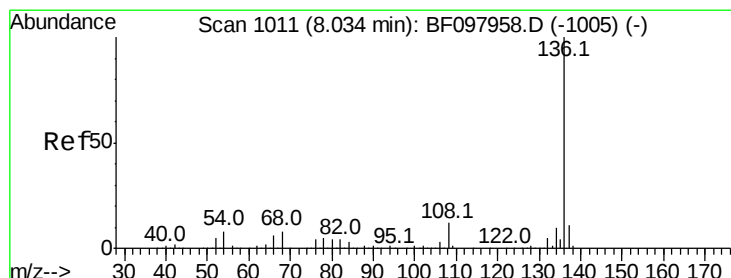
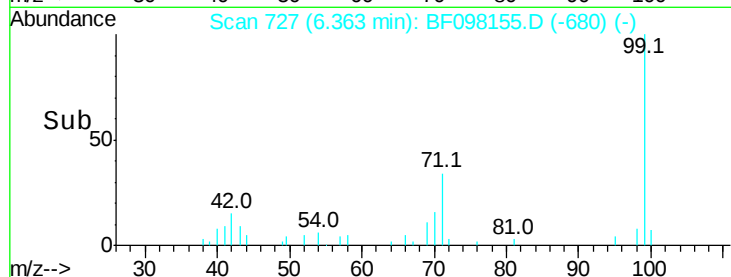
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		19982		
42	15.4	13.5	20.3		
71	33.9	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.000 ng

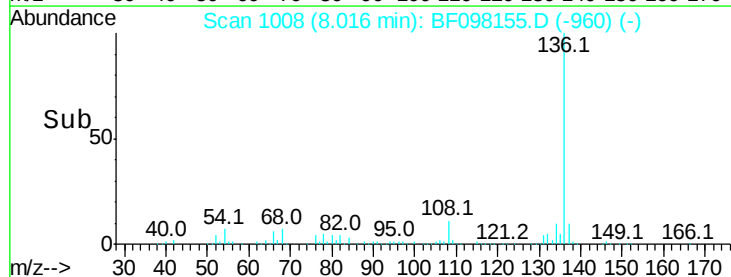
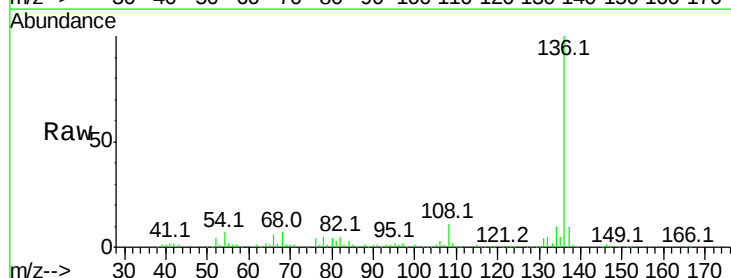
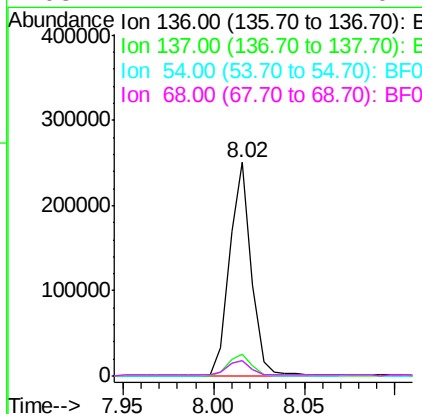
RT: 8.02 min Scan# 1008

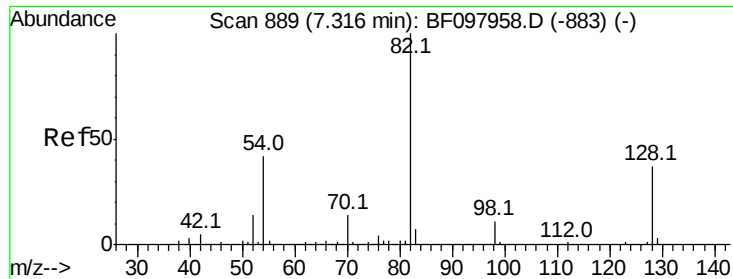
Delta R.T. -0.02 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		210491		
137	10.4	8.5	12.7		
54	7.4	4.9	7.3#		
68	7.4	4.1	6.1#		





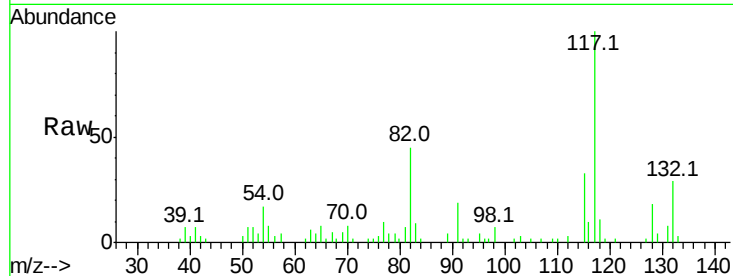
#23
 Nitrobenzene-d5
 Concen: 3.152 ng
 RT: 7.29 min Scan# 885
 Delta R.T. -0.03 min
 Lab File: BF098155.D
 Acq: 30 Aug 2017 13:04

Instrument :
 BNA_F
 ClientSampled :
 TP-4DL

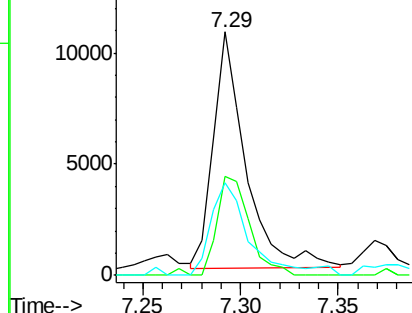
Tot Ion:	82	Resp:	12213
Ion Ratio	Lower	Upper	
82	100		
128	40.5	34.0	51.0
54	38.2	42.2	63.2#

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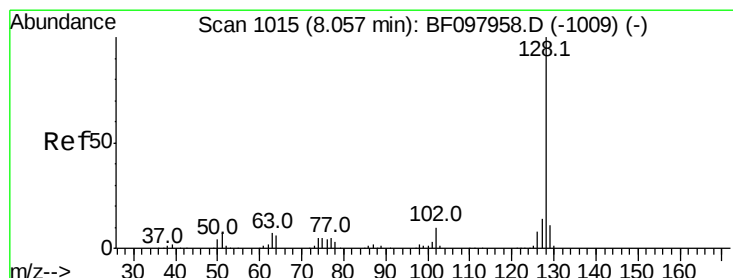
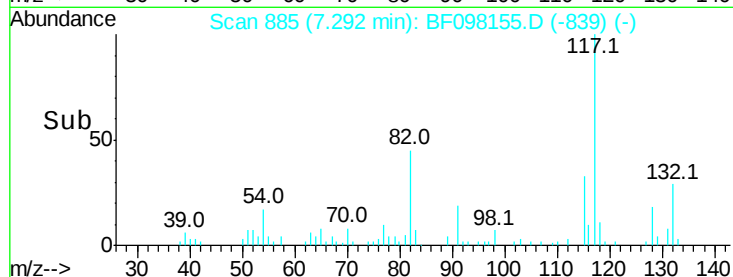
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Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0



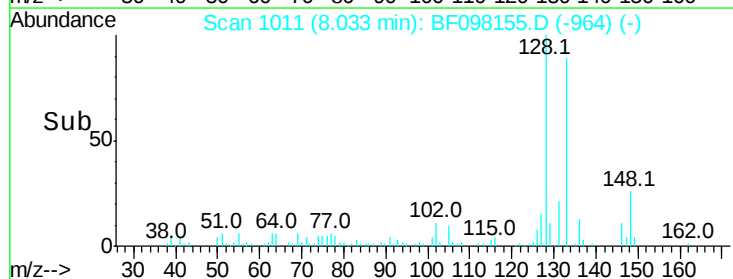
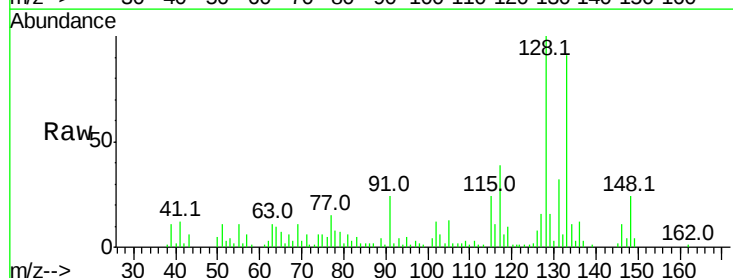
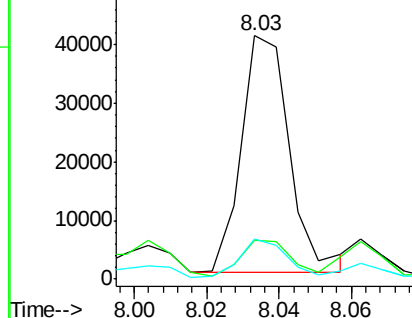
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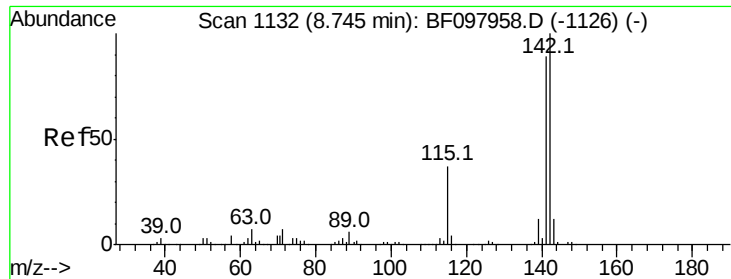


#31
 Naphthalene
 Concen: 3.425 ng
 RT: 8.03 min Scan# 1011
 Delta R.T. -0.02 min
 Lab File: BF098155.D
 Acq: 30 Aug 2017 13:04

Tgt Ion:	128	Resp:	37429
Ion Ratio	Lower	Upper	
128	100		
129	15.9	9.0	13.6#
127	16.4	10.8	16.2#

Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





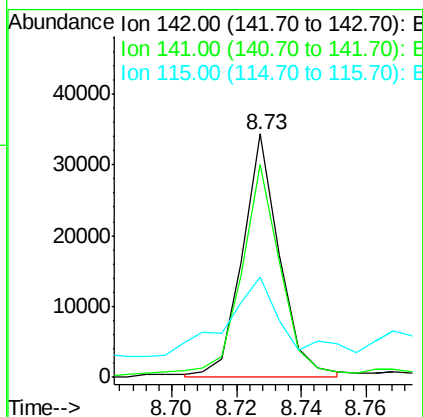
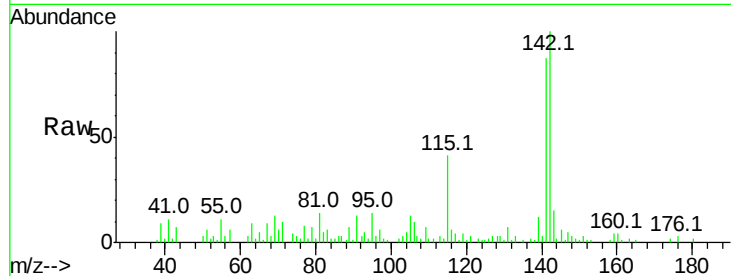
#37
2-Methylnaphthalene
Concen: 4.059 ng m
RT: 8.73 min Scan# 1129
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Instrument :
BNA_F
ClientSampled :
TP-4DL

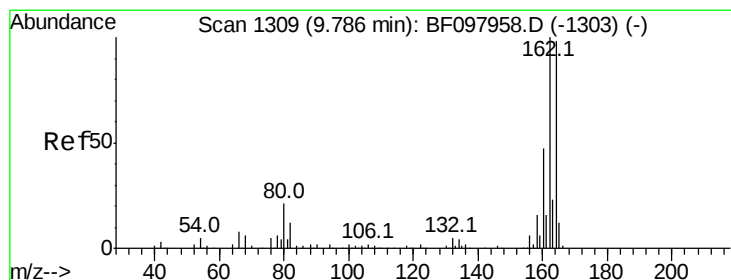
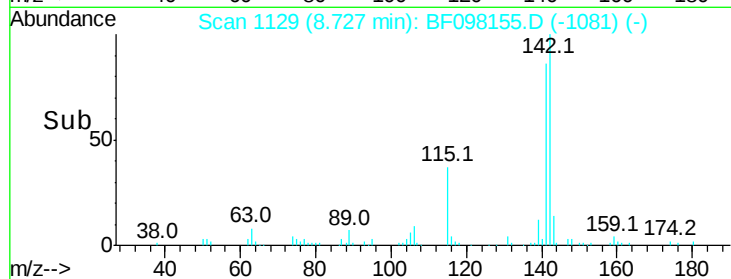
Tot Ion	Ratio	Lower	Upper
142	100		
141	87.2	71.3	106.9
115	41.2	27.1	40.7#

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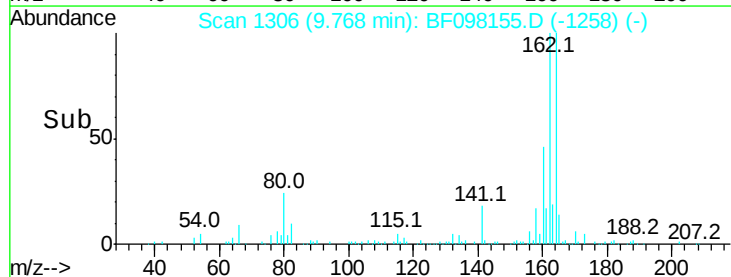
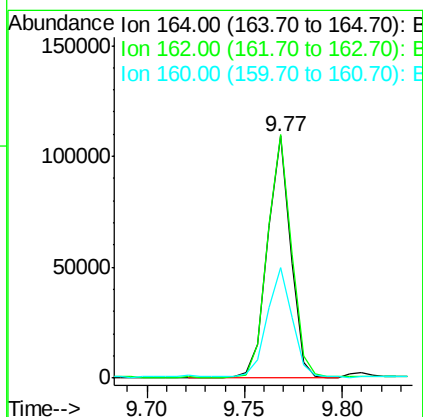
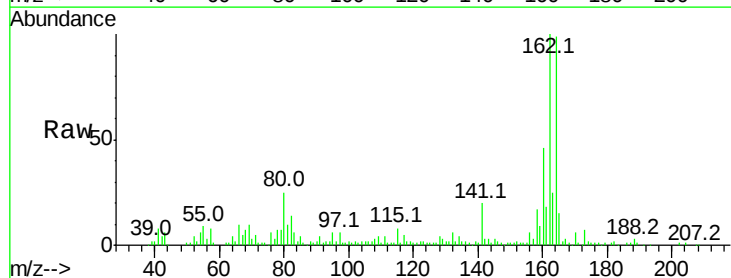


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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1306
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.7	82.6	123.8
160	45.9	36.2	54.2





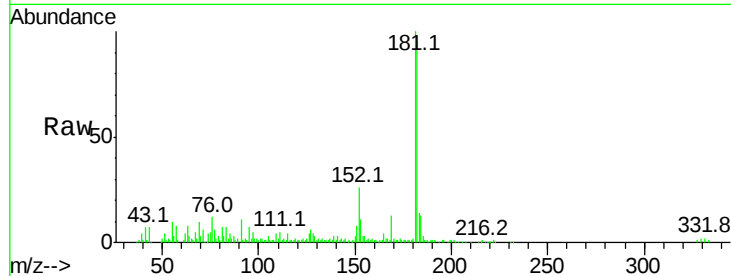
#41
 2,4,6-Tribromophenol
 Concen: 2.181 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.02 min
 Lab File: BF098155.D
 Acq: 30 Aug 2017 13:04

Instrument :
 BNA_F
 ClientSampled :
 TP-4DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	108.3	76.6	115.0
141	83.4	31.4	47.2

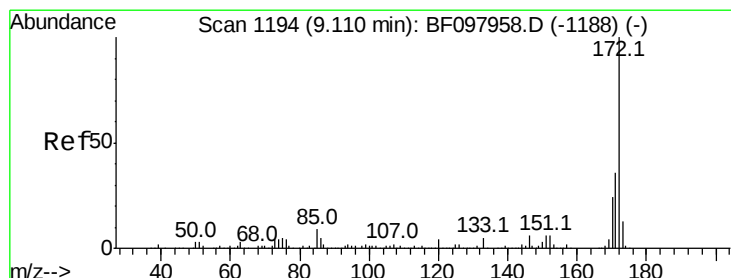
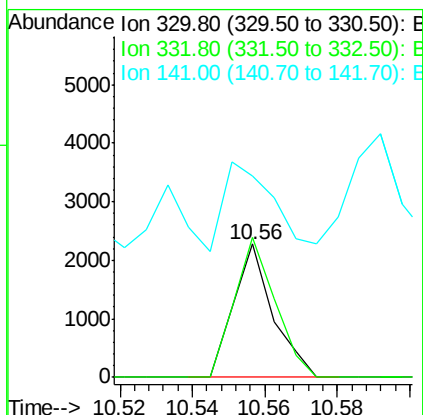
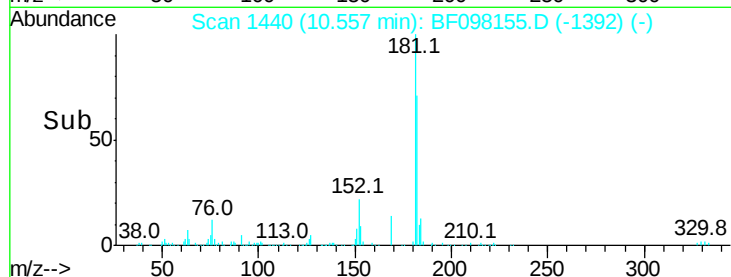
Manual Integrations
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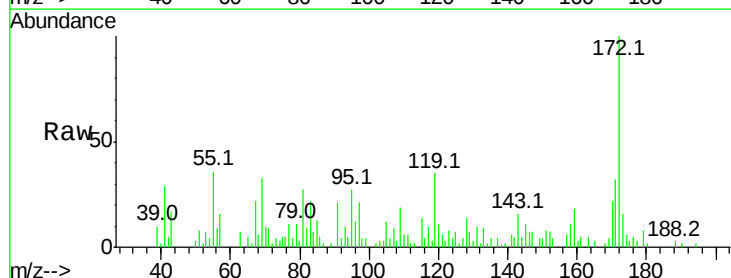
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

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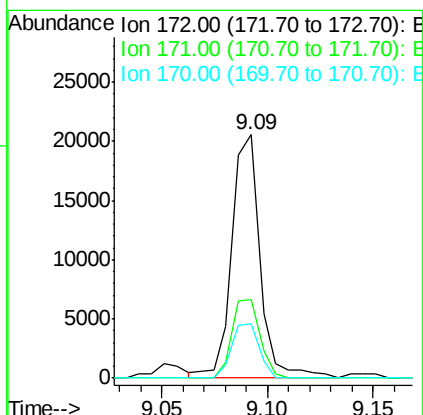
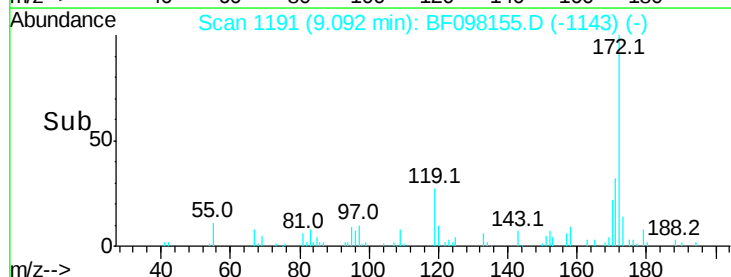


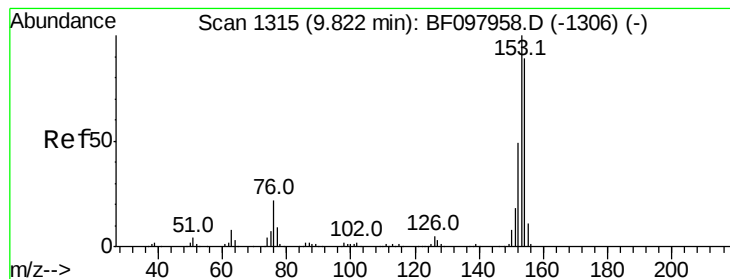
#44
 2-Fluorobiphenyl
 Concen: 3.066 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.02 min
 Lab File: BF098155.D
 Acq: 30 Aug 2017 13:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.2	29.6	44.4
170	22.4	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 56.746 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

Instrument :

BNA_F

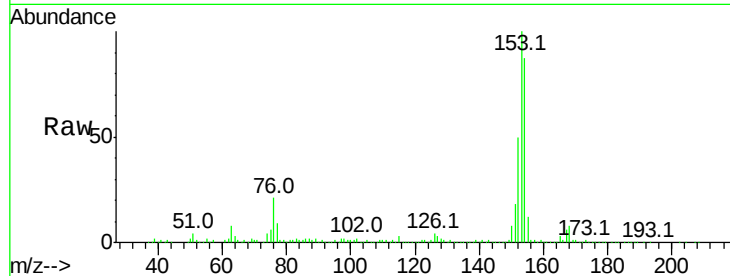
ClientSampleId :

TP-4DL

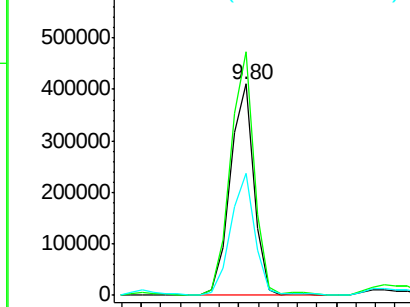
Tot Ion:	154	Resp:	344042
Ion Ratio	Lower	Upper	
154	100		
153	115.2	90.5	135.7
152	57.9	43.6	65.4

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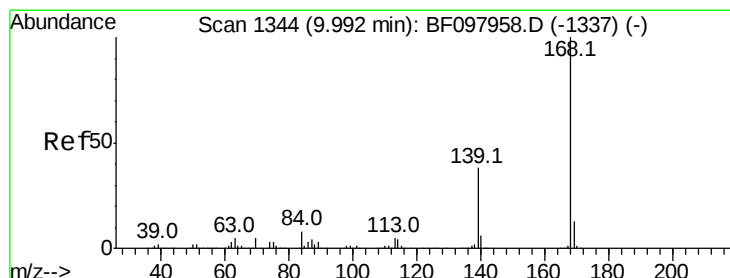
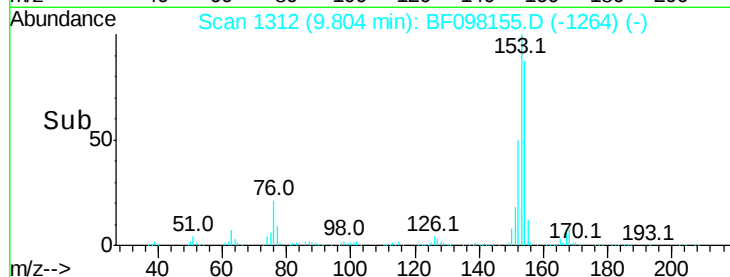
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



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#54

Dibenzofuran

Concen: 39.396 ng

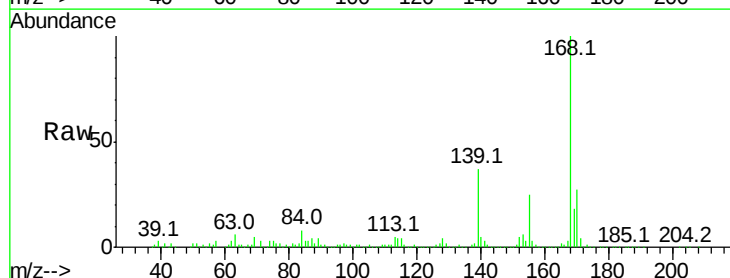
RT: 9.97 min Scan# 1341

Delta R.T. -0.02 min

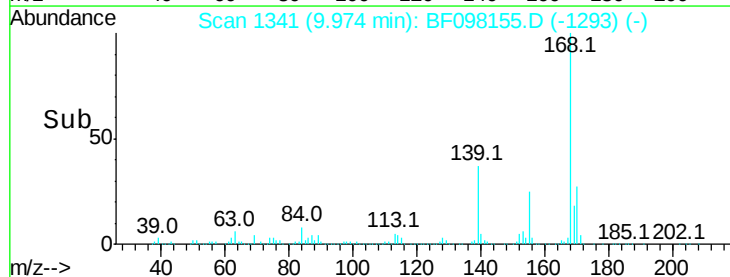
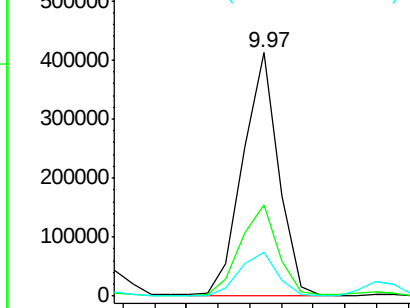
Lab File: BF098155.D

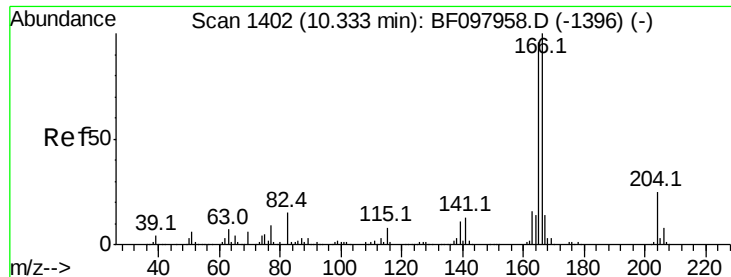
Acq: 30 Aug 2017 13:04

Tgt Ion:	168	Resp:	320112
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.6	45.8
169	18.2	10.8	16.2#



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: 52.636 ng

RT: 10.32 min Scan# 1399

Delta R.T. -0.02 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

Instrument :

BNA_F

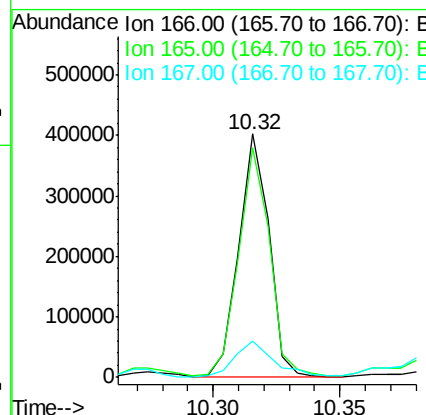
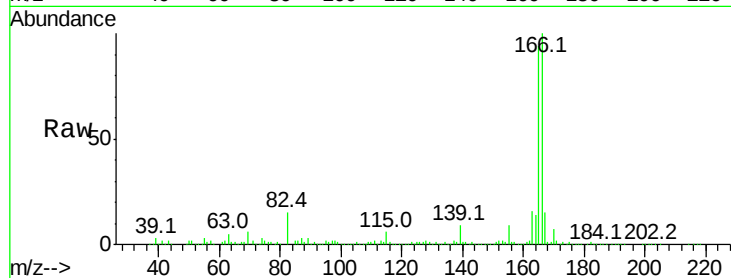
ClientSampleId :

TP-4DL

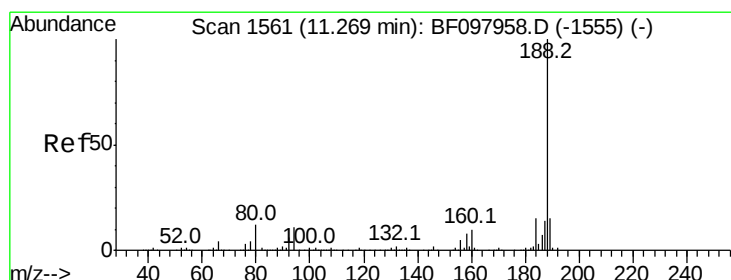
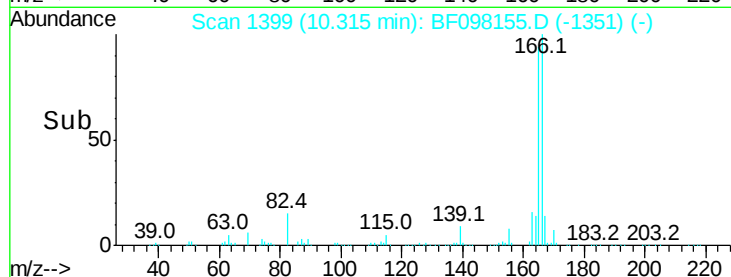
Tot Ion	Ratio	Lower	Upper
166	100		
165	94.2	78.8	118.2
167	14.8	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

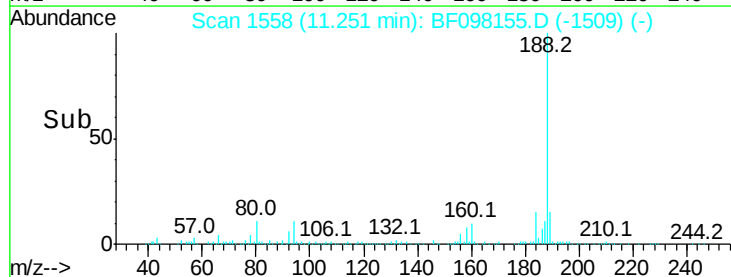
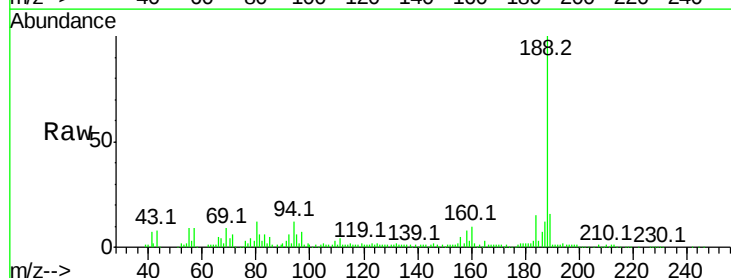
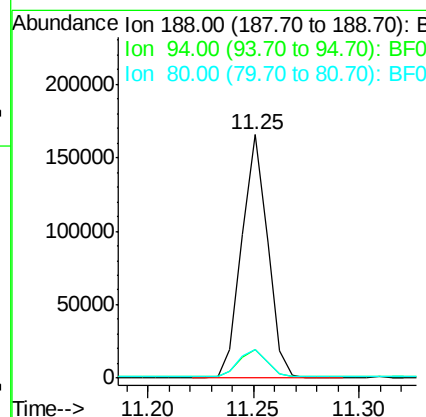
RT: 11.25 min Scan# 1558

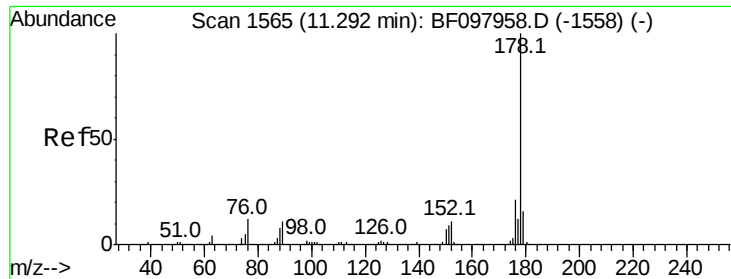
Delta R.T. -0.01 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

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





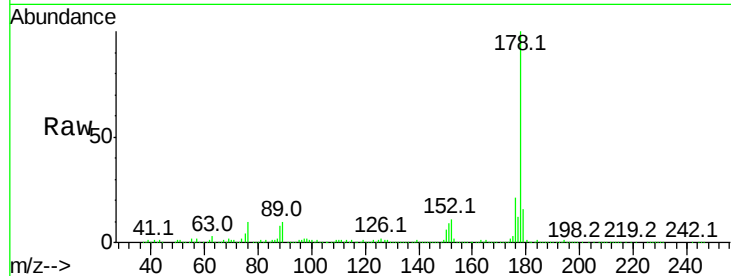
#70
Phenanthrene
Concen: 99.283 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

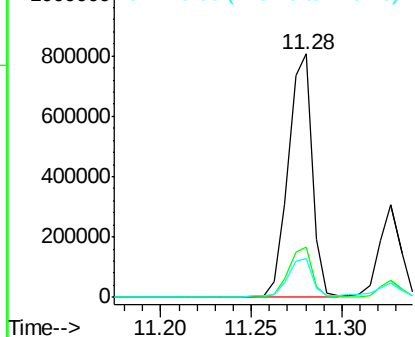
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	16.2	24.4
179	15.7	12.6	19.0

Manual Integrations
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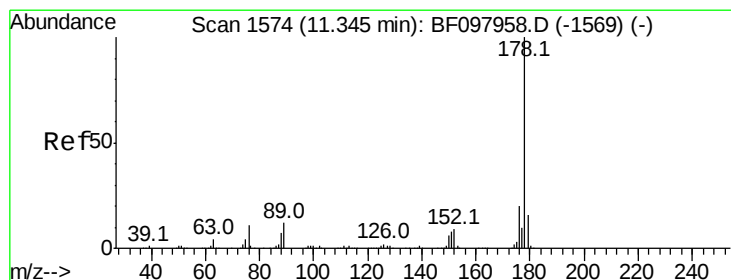
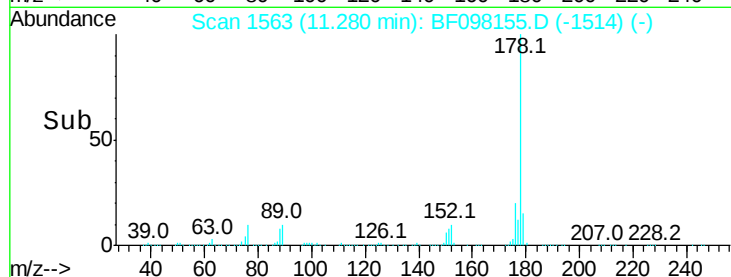
Sohil



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



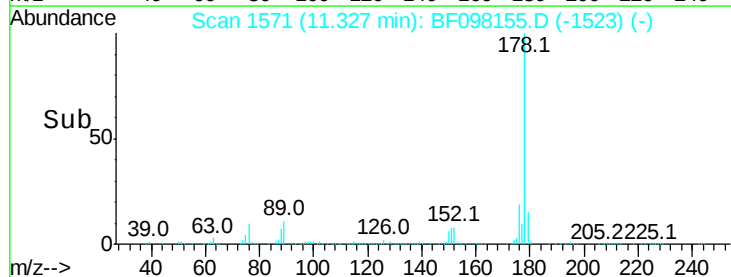
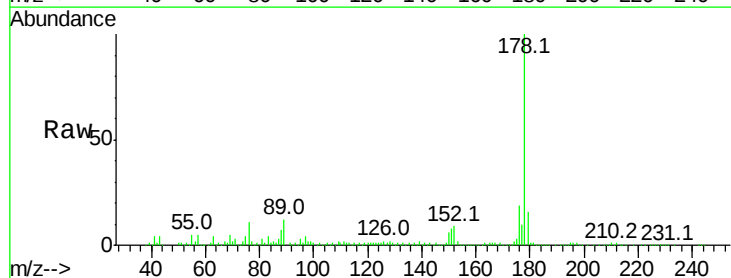
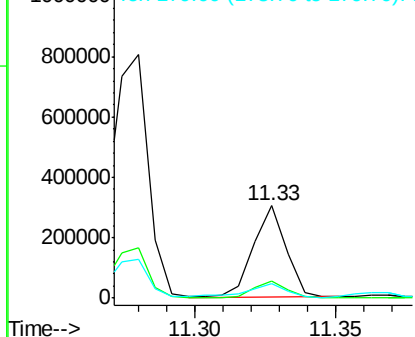
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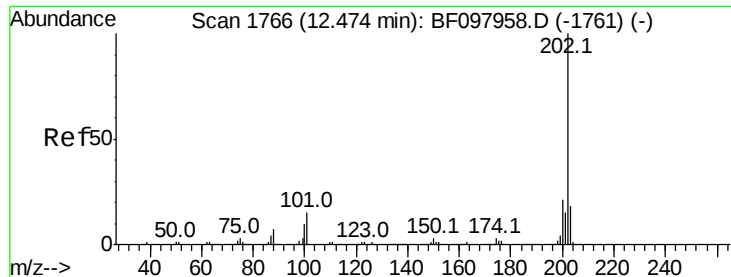


#71
Anthracene
Concen: 31.567 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	15.6	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





#74

Fluoranthene

Concen: 28.073 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

Instrument :

BNA_F

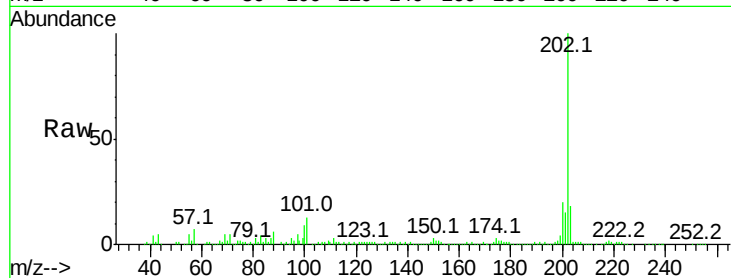
ClientSampleId :

TP-4DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	220431		
101	12.6	0.0	33.2	
203	17.7	0.0	38.1	

Manual Integrations
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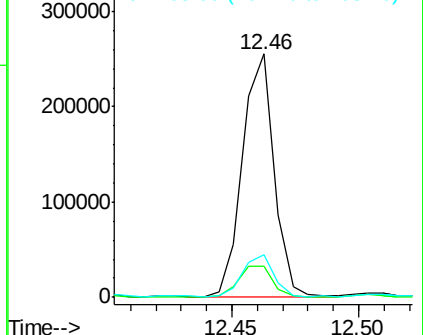
Sohil



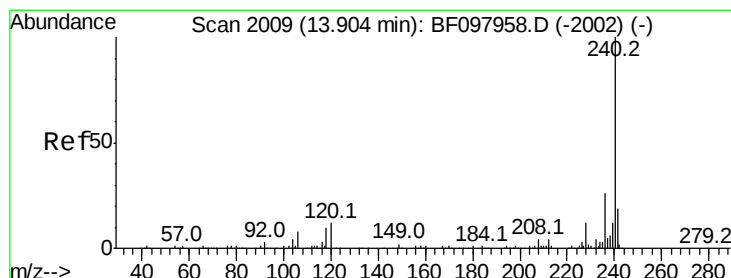
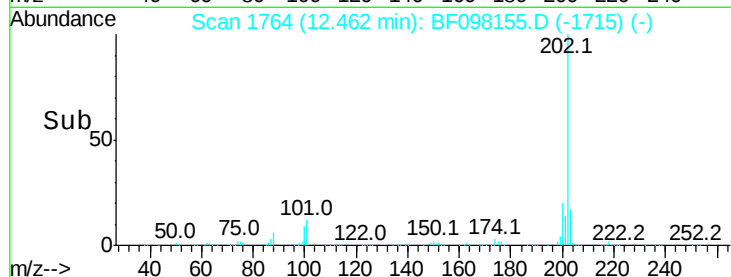
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



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#75

Chrysene-d12

Concen: 20.000 ng

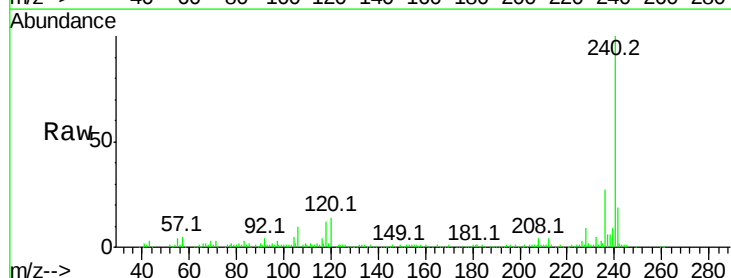
RT: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF098155.D

Acq: 30 Aug 2017 13:04

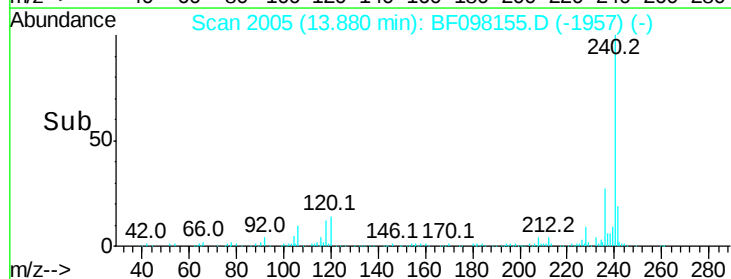
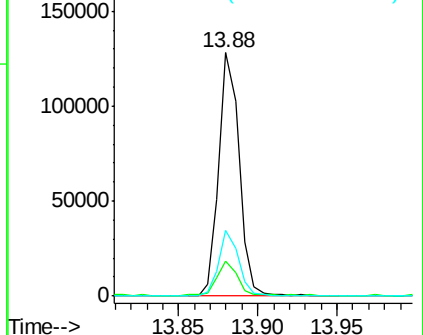
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	115525		
120	14.4	5.8	8.8#	
236	27.0	20.5	30.7	

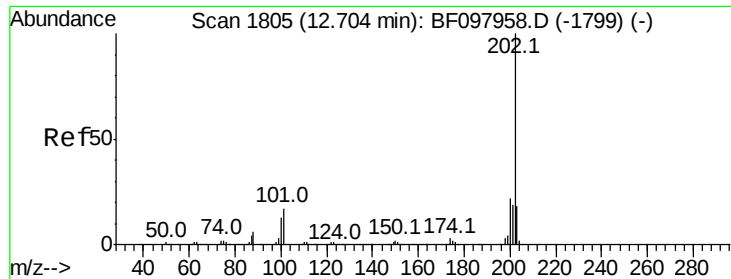


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





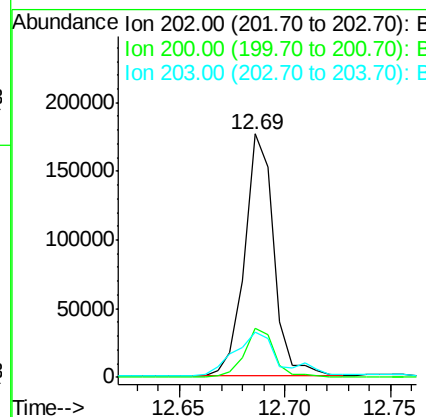
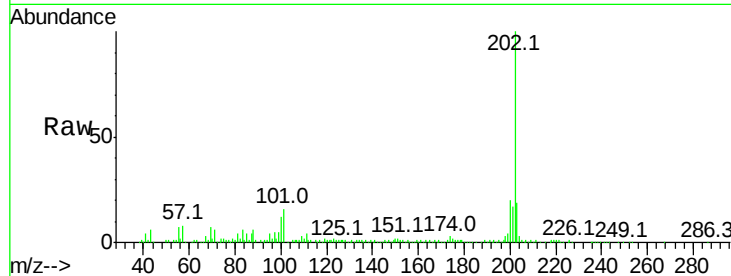
#77
Pvrene
Concen: 17.934 ng
RT: 12.69 min Scan# 1802
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

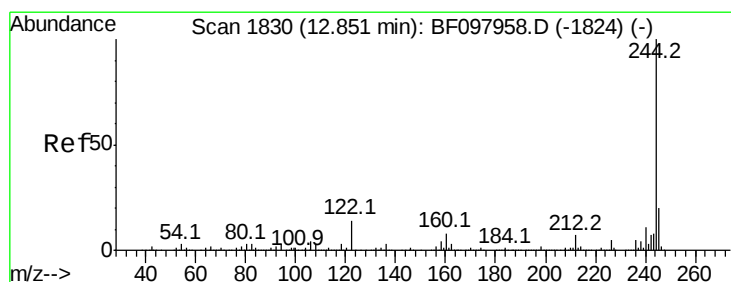
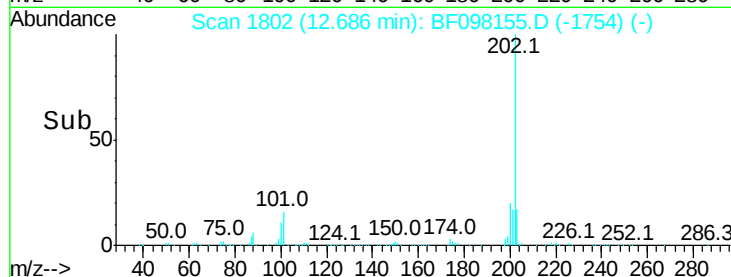
Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	19.9	17.6	26.4
203	18.6	14.4	21.6

Manual Integrations
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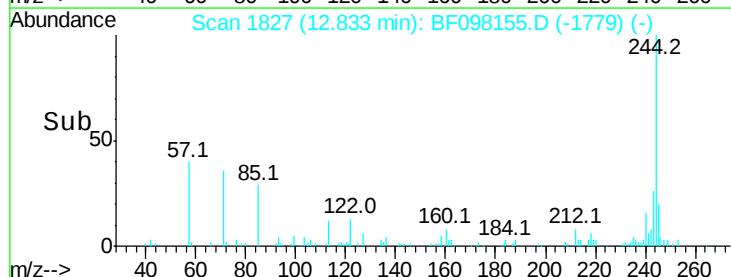
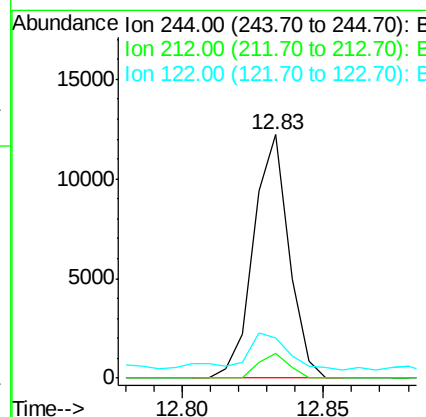
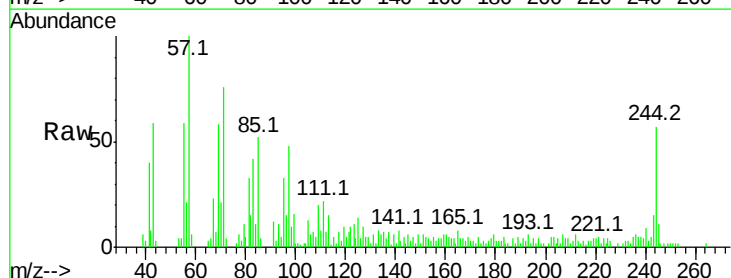


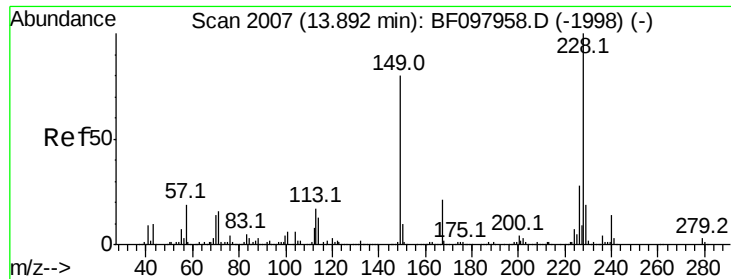
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#78
Terphenyl-d14
Concen: 1.920 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	10.3	6.0	9.0#
122	16.6	10.3	15.5#





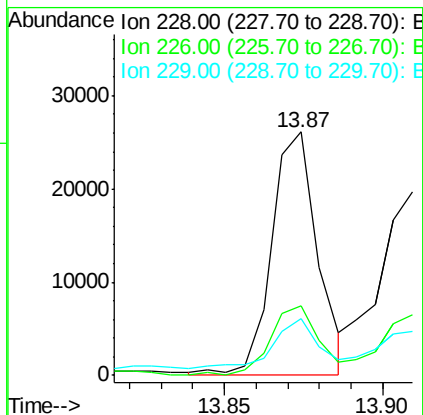
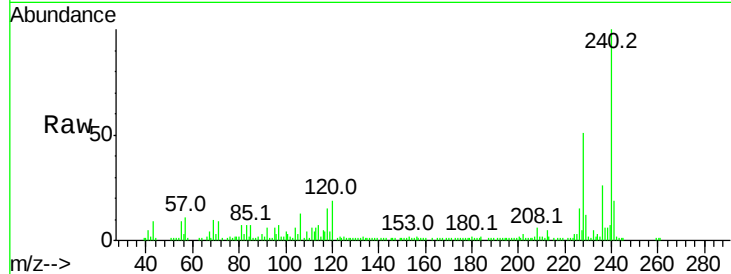
#80
Benzo(a)anthracene
Concen: 3.825 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.01 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Instrument :
BNA_F
ClientSampled :
TP-4DL

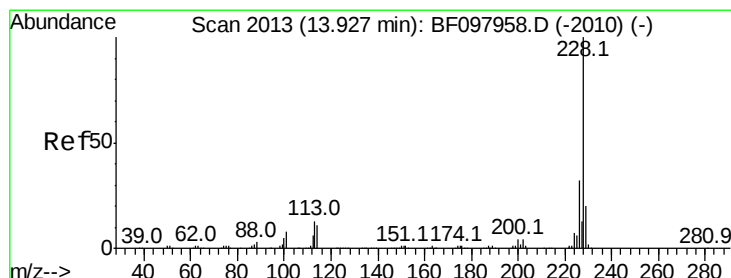
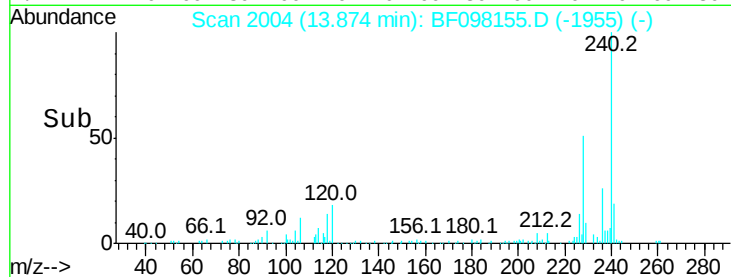
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	23.2	16.3	24.5

Manual Integrations
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Sohil

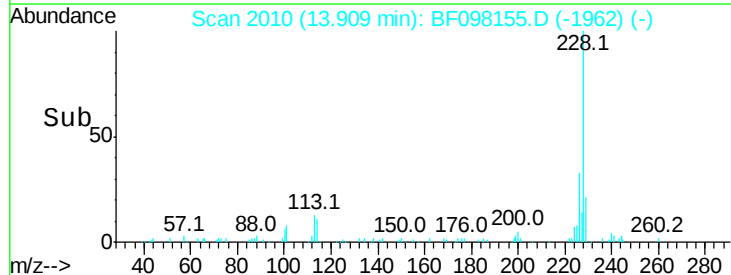
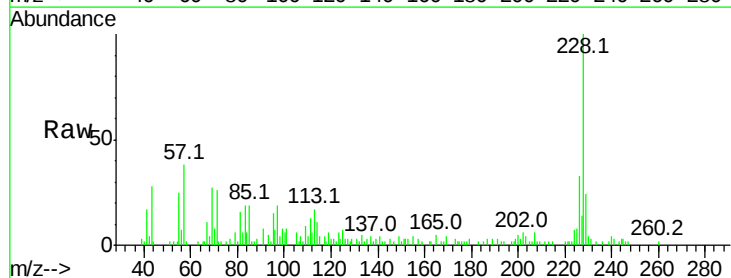
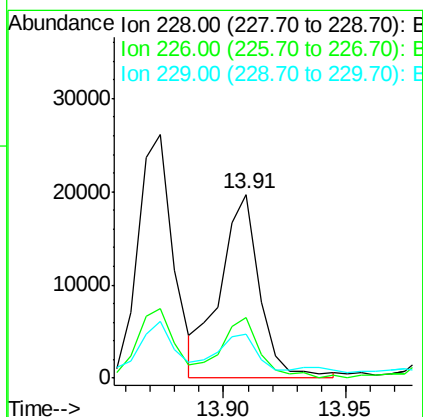


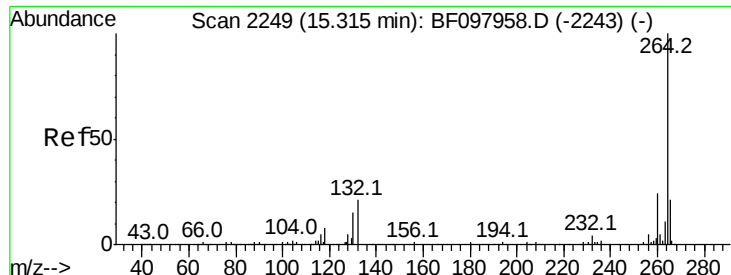
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#82
Chrysene
Concen: 3.225 ng m
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098155.D
Acq: 30 Aug 2017 13:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.8	24.9	37.3
229	23.8	15.8	23.6#





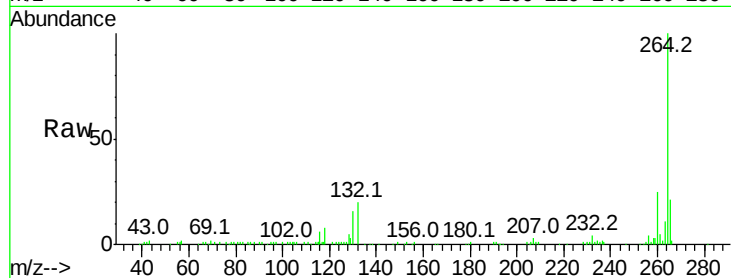
#86
 Pervlene-d12
 Concen: 20.000 ng
 RT: 15.30 min Scan# 2246
 Delta R.T. -0.01 min
 Lab File: BF098155.D
 Acq: 30 Aug 2017 13:04

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	20.7	17.2	25.8

Manual Integrations
 APPROVED

Sohil

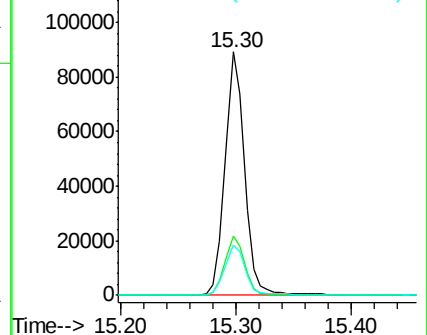


Abundance

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



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