

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090617\
 Data File : BF098281.D
 Acq On : 6 Sep 2017 19:14
 Operator : SJ/JU
 Sample : I5084-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP10-WC1

Manual Integrations
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Sohil
 9/7/2017 5:44:30 PM

Quant Time: Sep 07 05:23:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 05 17:28:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	102172	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	404273	20.00	ng	-0.01
38) Acenaphthene-d10	9.73	164	177909	20.00	ng	-0.01
63) Phenanthrene-d10	11.22	188	283975	20.00	ng	0.00
75) Chrysene-d12	13.85	240	203673	20.00	ng	-0.01
86) Perylene-d12	15.26	264	189911	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	672104	100.06	ng	0.00
7) Phenol-d6	6.34	99	915017	100.26	ng	-0.01
23) Nitrobenzene-d5	7.26	82	552234	74.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	145514	94.27	ng	-0.01
44) 2-Fluorobiphenyl	9.06	172	705823	58.29	ng	-0.01
78) Terphenyl-d14	12.80	244	426330	43.65	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.00	128	48288	2.301	ng	99
37) 2-Methylnaphthalene	8.69	142	28820	2.240	ng	# 75
48) Acenaphthylene	9.59	152	56236	2.987	ng	98
49) Dimethylphthalate	9.45	163	50098	3.852	ng	97
51) Acenaphthene	9.76	154	63093	5.314	ng	96
54) Dibenzofuran	9.93	168	41854	2.630	ng	# 97
57) Fluorene	10.27	166	78190	6.356	ng	98
70) Phenanthrene	11.24	178	860066	56.837	ng	99
71) Anthracene	11.29	178	236330	15.398	ng	99
72) Carbazole	11.45	167	80809	5.547	ng	97
74) Fluoranthene	12.43	202	1184119	74.970	ng	99
77) Pyrene	12.66	202	1143721	68.659	ng	98
80) Benzo(a)anthracene	13.84	228	585614	47.974	ng	98
82) Chrysene	13.88	228	545030	44.884	ng	98
85) Indeno(1,2,3-cd)pyrene	16.62	276	240154m	26.884	ng	
87) Benzo(b)fluoranthene	14.87	252	614700m	51.350	ng	
88) Benzo(k)fluoranthene	14.89	252	227680m	20.245	ng	
89) Benzo(a)pyrene	15.21	252	466799	44.049	ng	99
90) Dibenzo(a,h)anthracene	16.63	278	61749	7.157	ng	# 90
91) Benzo(a,h,i)perylene	17.03	276	221333	24.587	ng	95

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

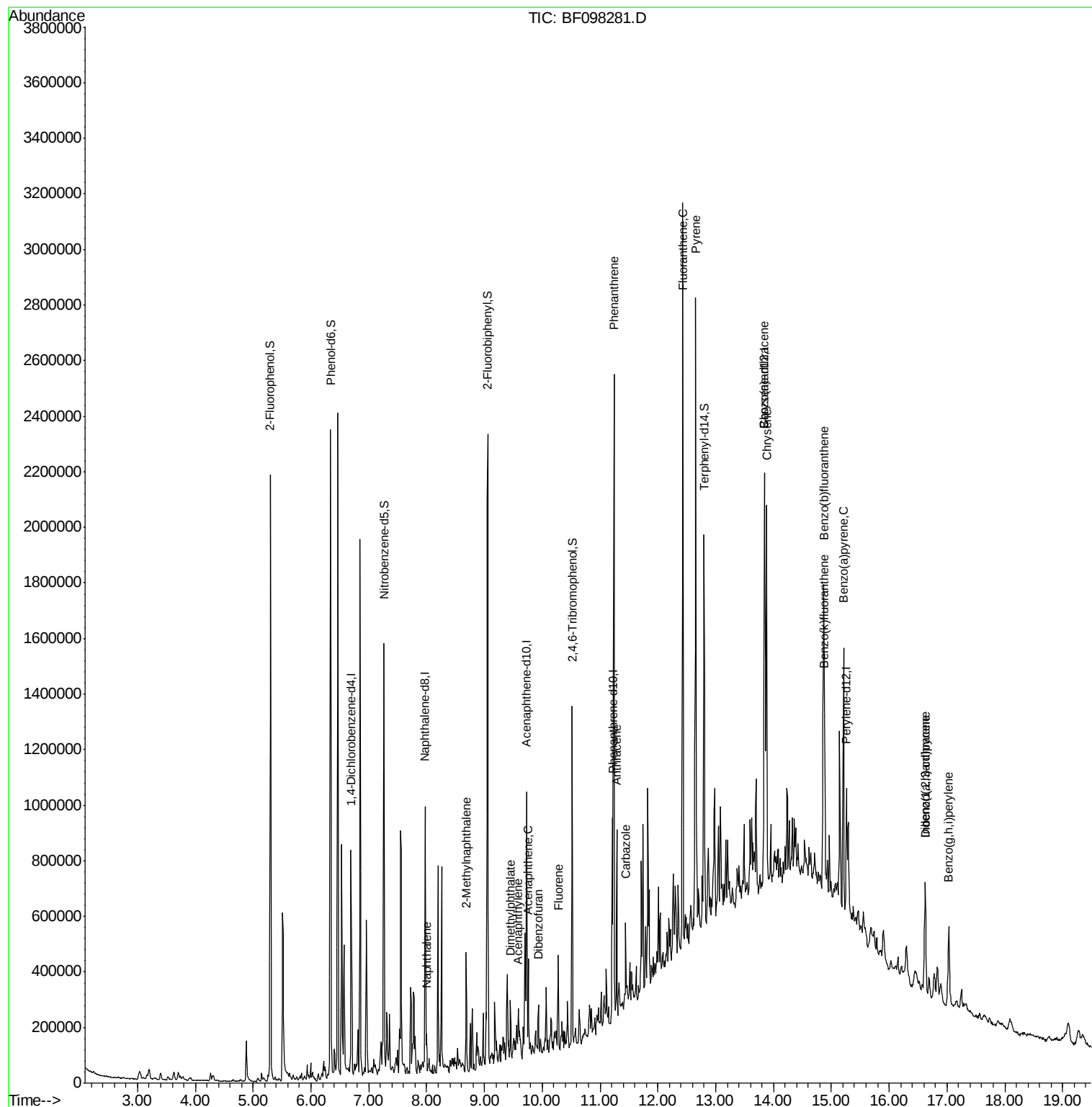
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090617\
Data File : BF098281.D
Acq On : 6 Sep 2017 19:14
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Sample : I5084-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

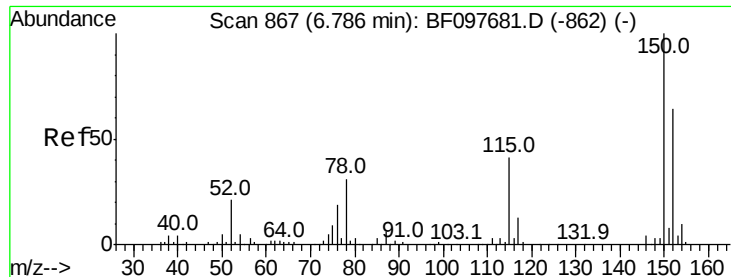
Instrument :
BNA_F
ClientSampleId :
TP10-WC1

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Quant Time: Sep 07 05:23:07 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 05 17:28:20 2017
Response via : Initial Calibration





#1

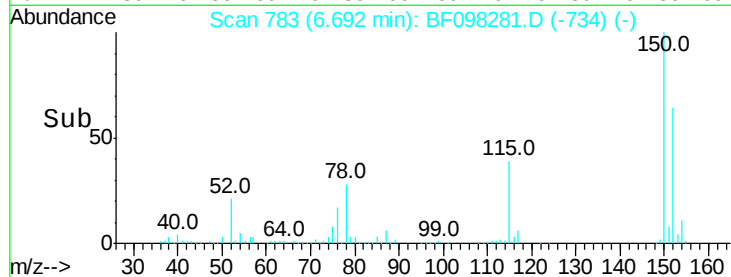
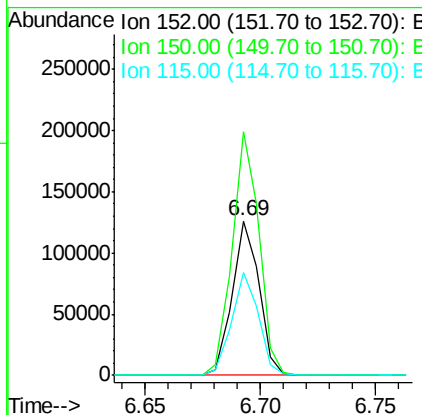
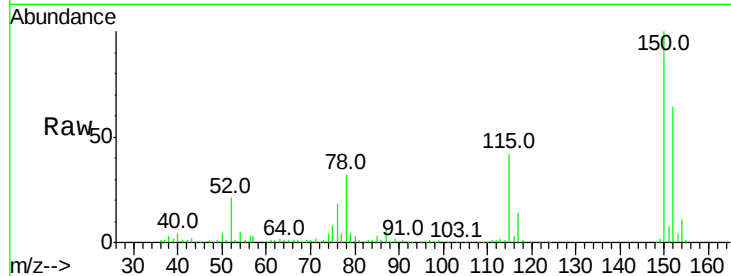
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampled :
TP10-WC1

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	126.2	189.2
115	66.6	52.2	78.2

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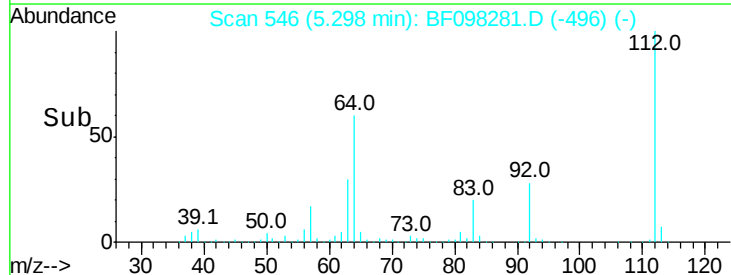
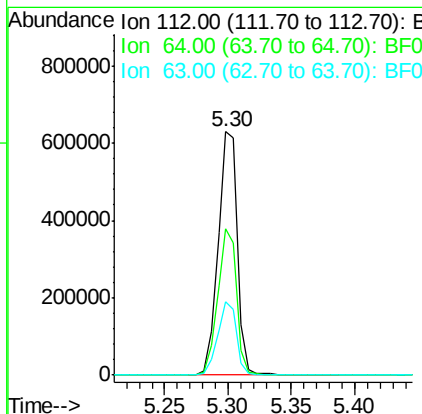
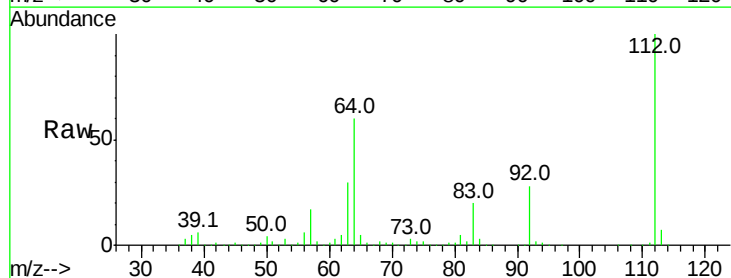
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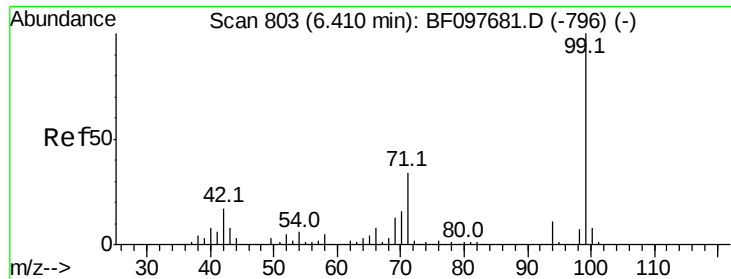


#5

2-Fluorophenol
Concen: 100.059 ng
RT: 5.30 min Scan# 546
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.3	46.0	69.0
63	30.4	23.4	35.0





#7

Phenol-d6

Concen: 100.258 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Instrument :

BNA_F

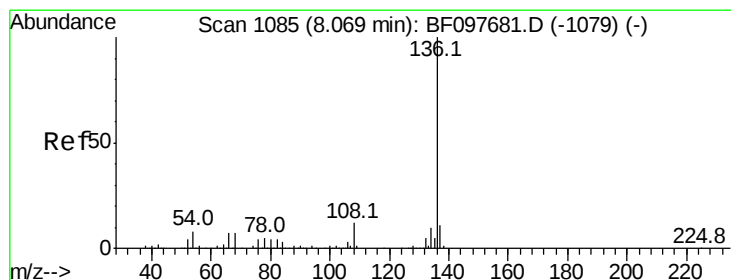
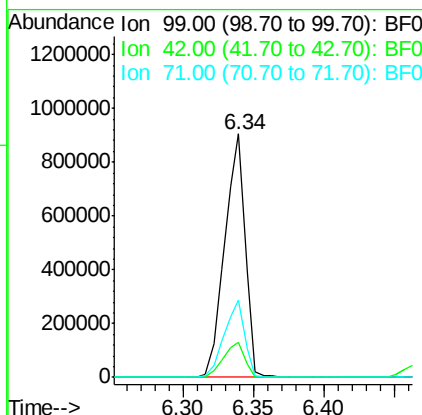
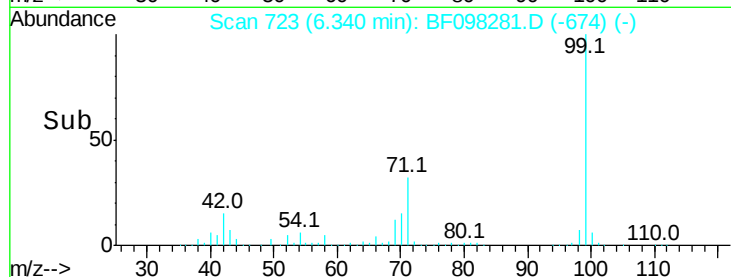
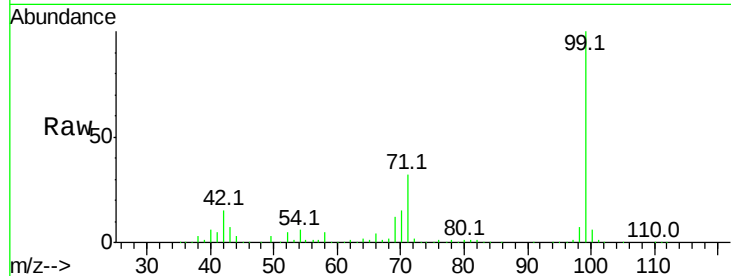
ClientSampleId :

TP10-WC1

Tot Ion:	99	Resp:	915017
Ion Ratio	Lower	Upper	
99	100		
42	14.5	13.5	20.3
71	31.7	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

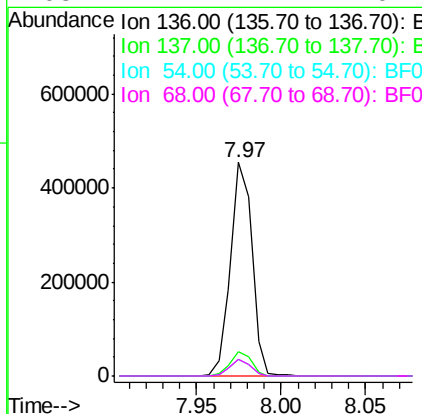
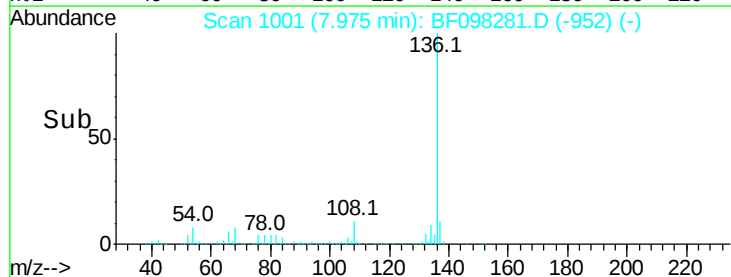
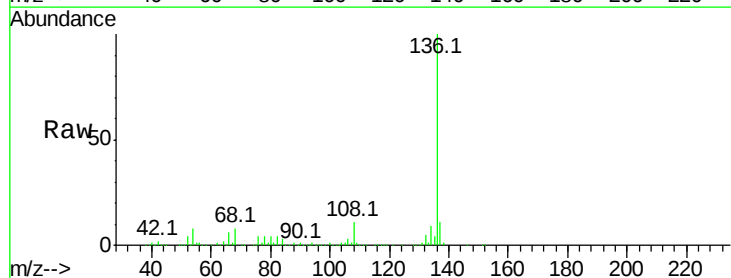
RT: 7.97 min Scan# 1001

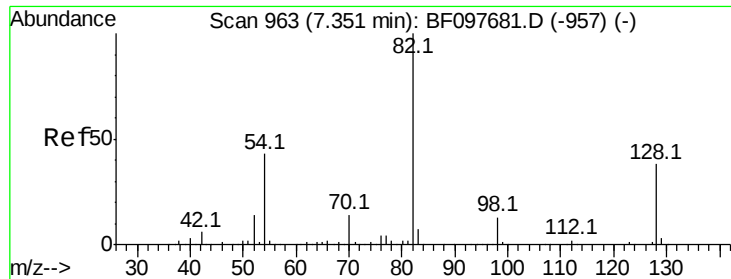
Delta R.T. -0.01 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Tgt Ion:	136	Resp:	404273
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	7.9	4.9	7.3#
68	7.7	4.1	6.1#





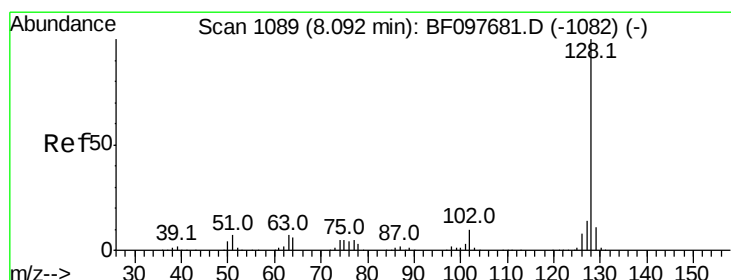
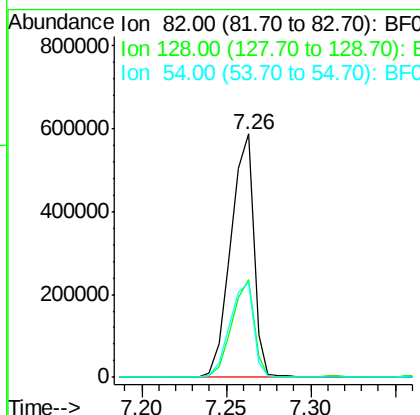
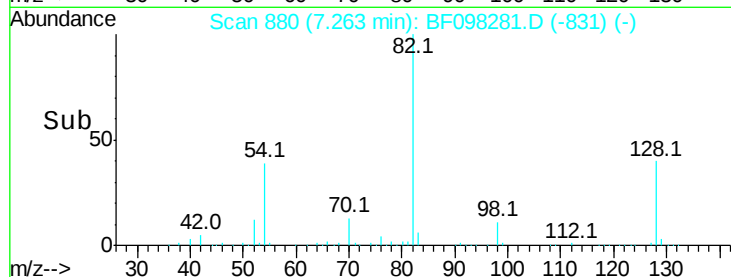
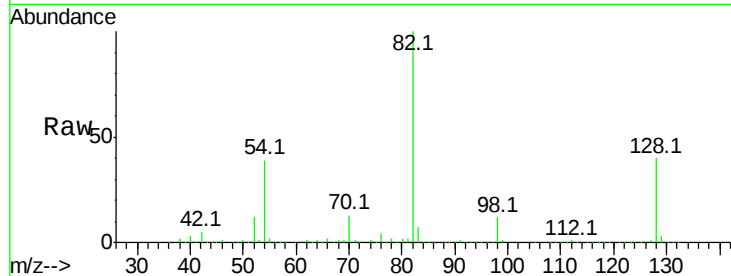
#23
Nitrobenzene-d5
Concen: 74.207 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampleId :
TP10-WC1

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.3	34.0	51.0	
54	39.1	42.2	63.2	

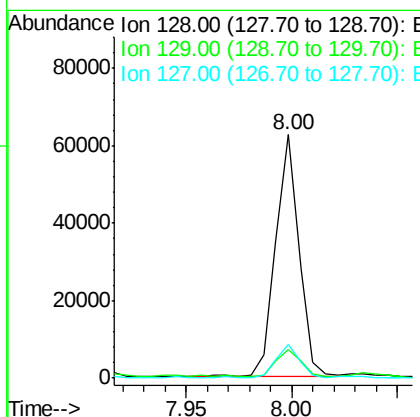
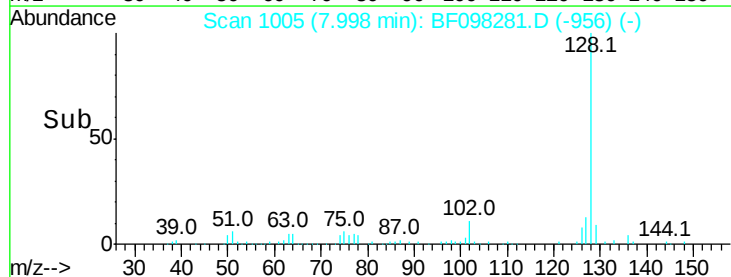
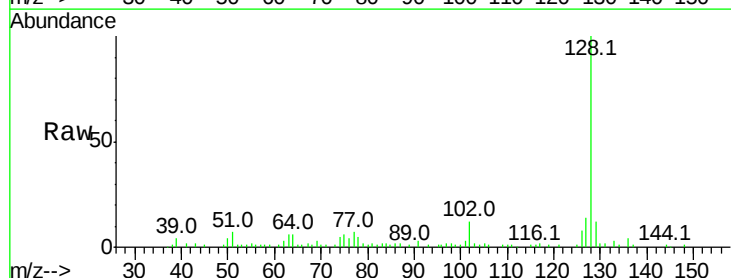
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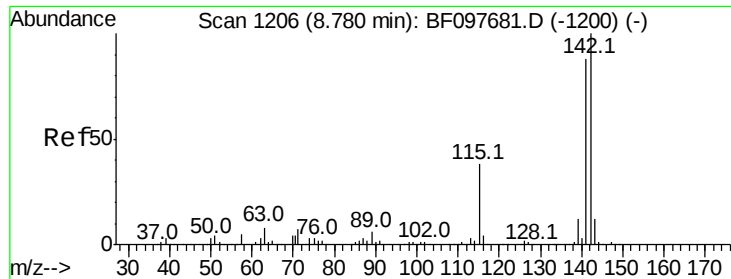
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#31
Naphthalene
Concen: 2.301 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.7	9.0	13.6	
127	13.8	10.8	16.2	





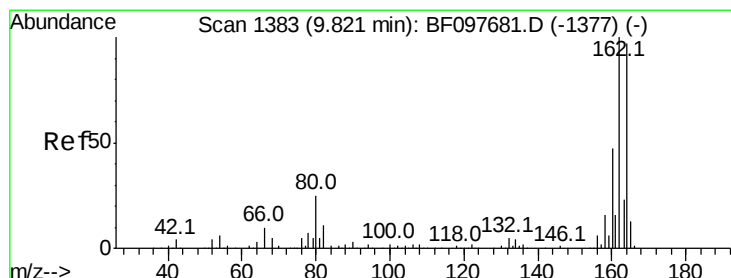
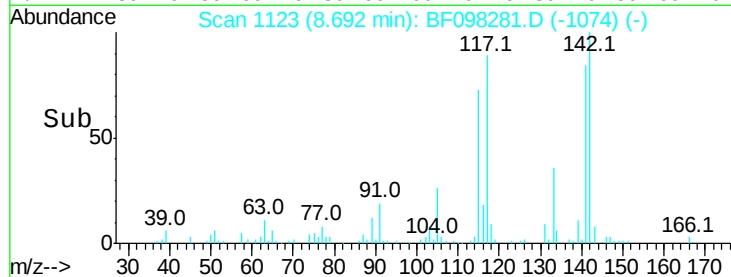
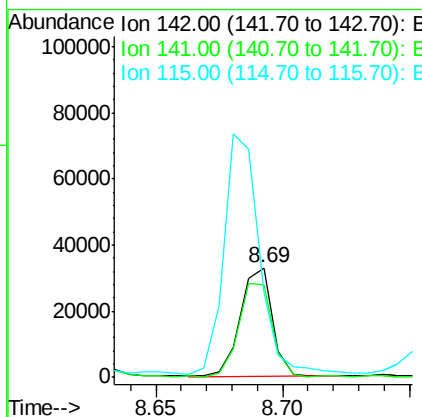
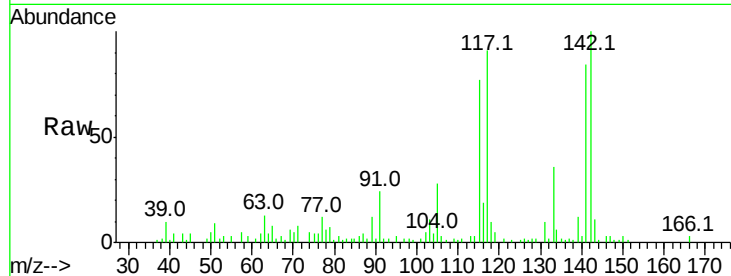
#37
 2-Methylnaphthalene
 Concen: 2.240 ng
 RT: 8.69 min Scan# 1123
 Delta R.T. -0.01 min
 Lab File: BF098281.D
 Acq: 6 Sep 2017 19:14

Instrument :
 BNA_F
 ClientSampled :
 TP10-WC1

Tot Ion:	142	Resp:	28820
Ion Ratio	Lower	Upper	
142	100		
141	84.3	71.3	106.9
115	77.2	27.1	40.7#

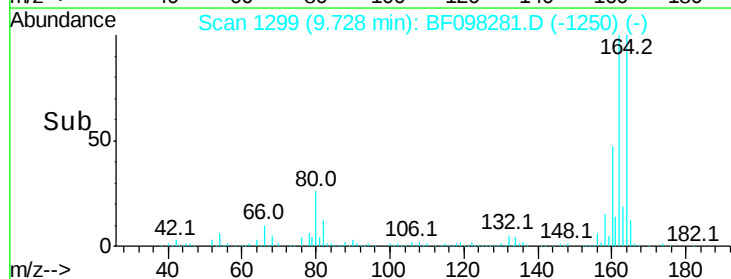
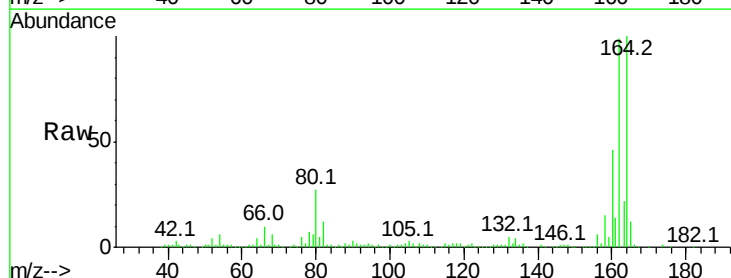
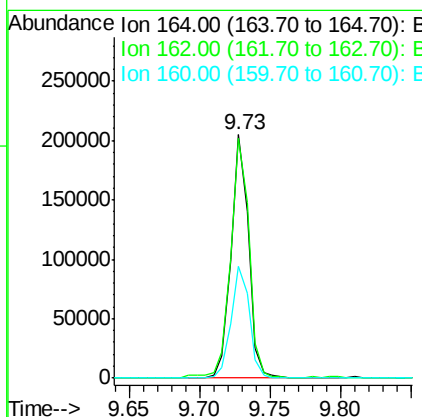
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.73 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BF098281.D
 Acq: 6 Sep 2017 19:14

Tgt Ion:	164	Resp:	177909
Ion Ratio	Lower	Upper	
164	100		
162	98.7	82.6	123.8
160	46.1	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 94.266 ng

RT: 10.52 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Instrument :

BNA_F

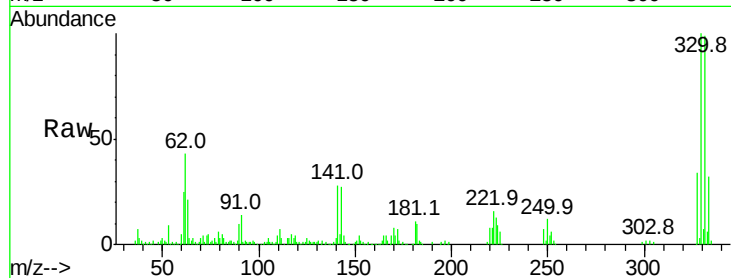
ClientSampleId :

TP10-WC1

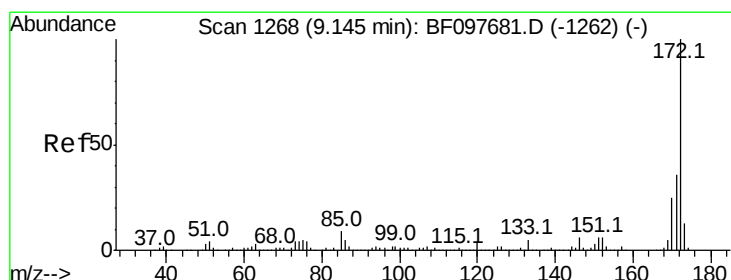
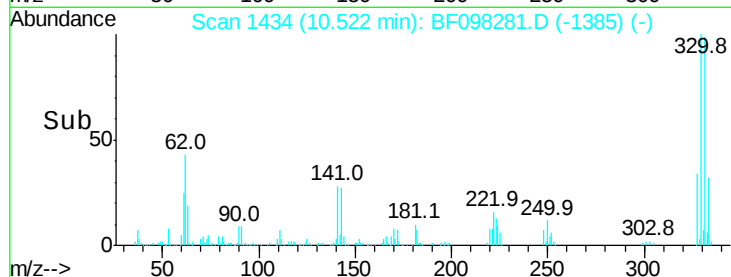
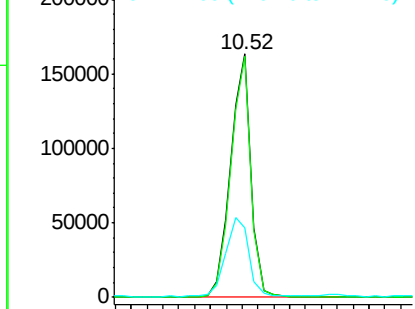
Tot Ion:	330	Resp:	145514
Ion Ratio	Lower	Upper	
330	100		
332	97.4	76.6	115.0
141	37.4	31.4	47.2

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



#44

2-Fluorobiphenyl

Concen: 58.288 ng

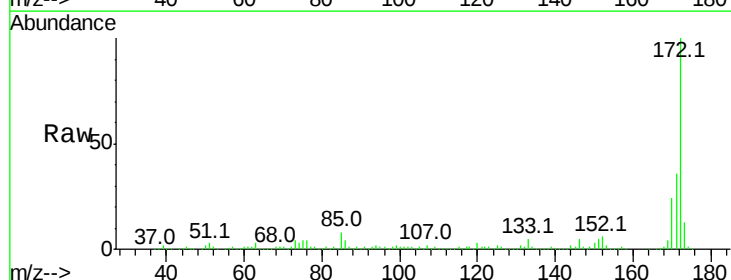
RT: 9.06 min Scan# 1185

Delta R.T. -0.01 min

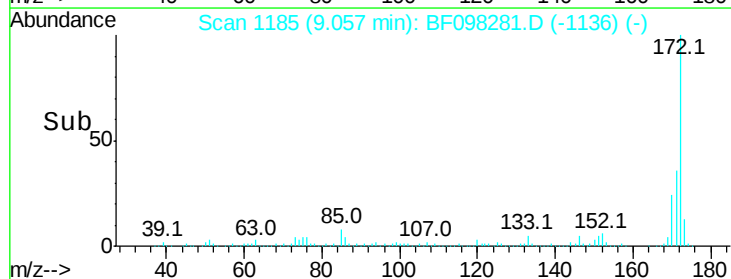
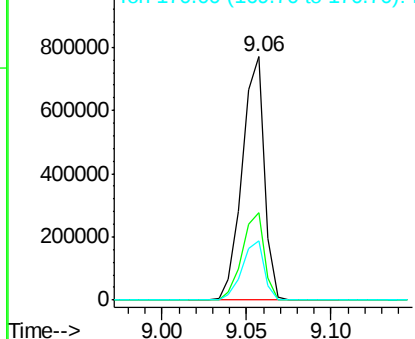
Lab File: BF098281.D

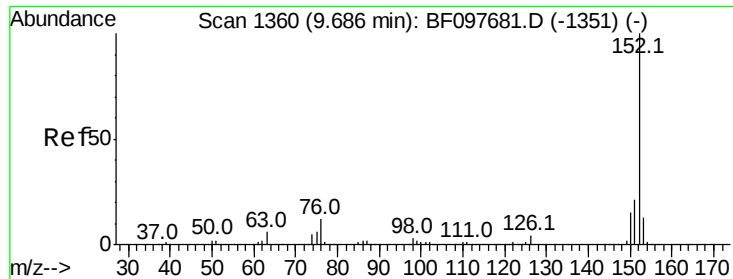
Acq: 6 Sep 2017 19:14

Tgt Ion:	172	Resp:	705823
Ion Ratio	Lower	Upper	
172	100		
171	35.9	29.6	44.4
170	24.3	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





#48

Acenaphthylene

Concen: 2.987 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Instrument :

BNA_F

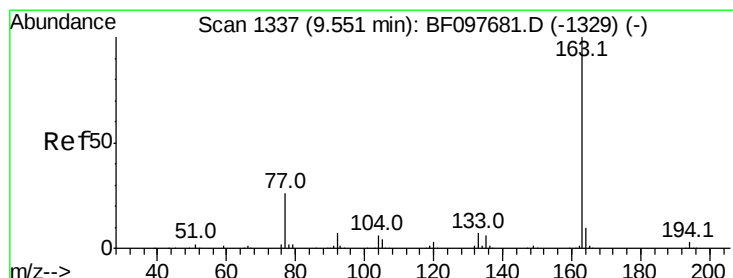
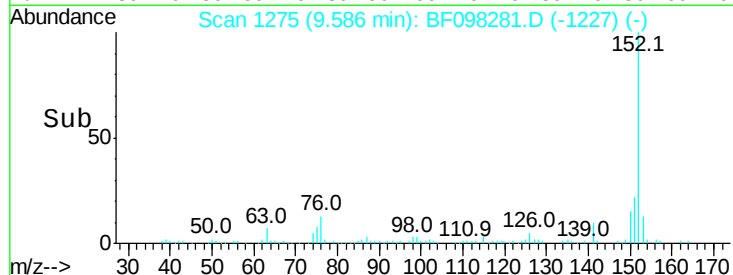
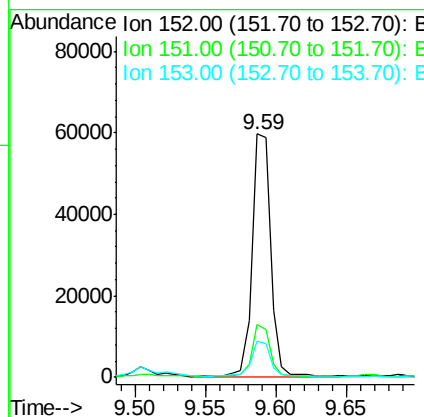
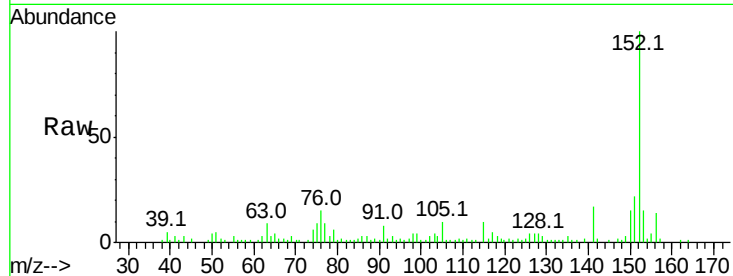
ClientSampleId :

TP10-WC1

Tot Ion:	152	Resp:	56236
Ion Ratio	Lower	Upper	
152	100		
151	21.8	16.8	25.2
153	14.7	10.8	16.2

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#49

Dimethylphthalate

Concen: 3.852 ng

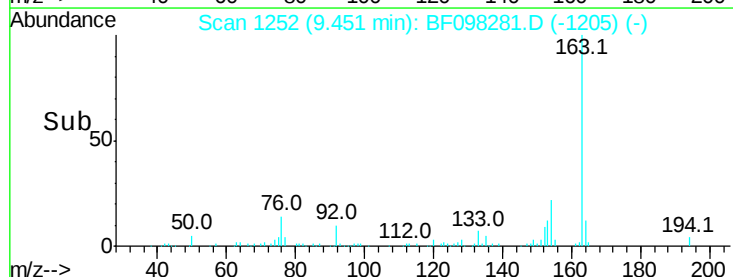
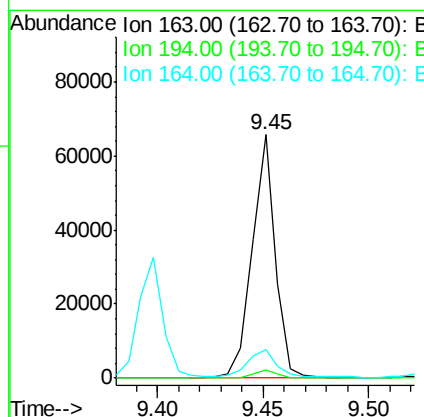
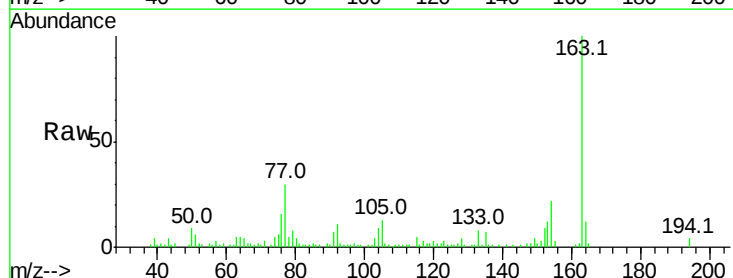
RT: 9.45 min Scan# 1252

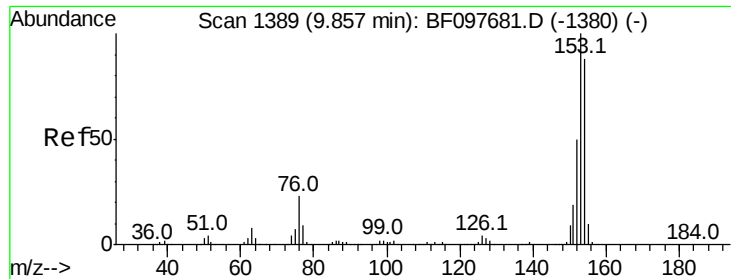
Delta R.T. -0.02 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Tgt Ion:	163	Resp:	50098
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.6	4.0
164	11.9	8.4	12.6





#51

Acenaphthene

Concen: 5.314 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Instrument :

BNA_F

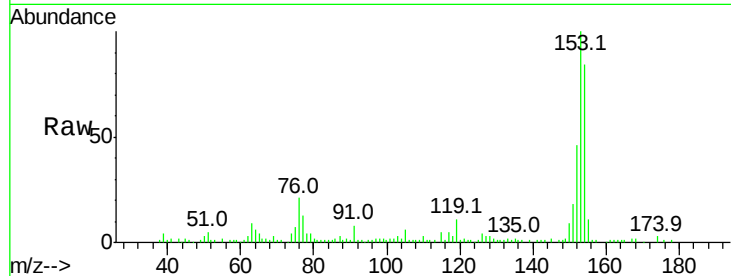
ClientSampleId :

TP10-WC1

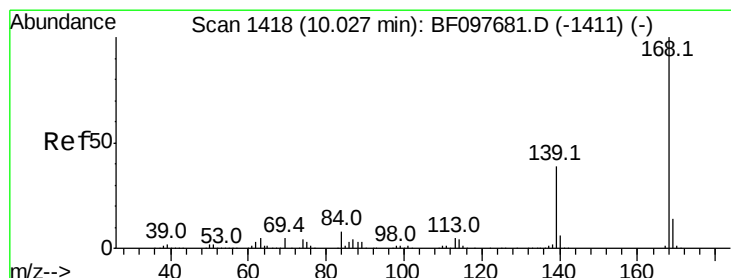
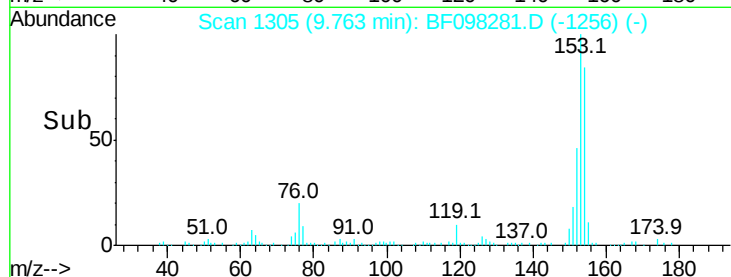
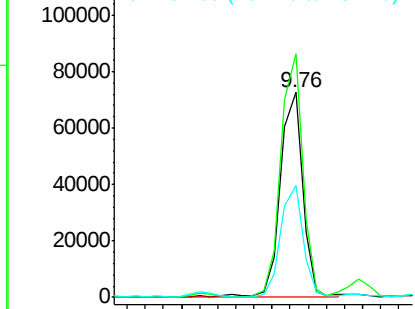
Tot Ion:	154	Resp:	63093
Ion Ratio	Lower	Upper	
154	100		
153	118.9	90.5	135.7
152	54.6	43.6	65.4

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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: 2.630 ng

RT: 9.93 min Scan# 1334

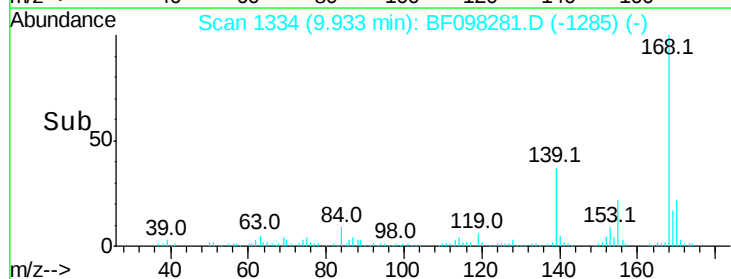
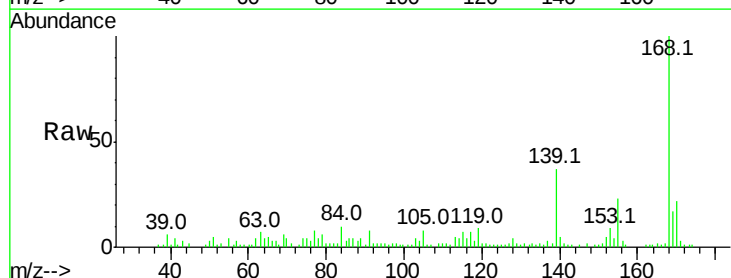
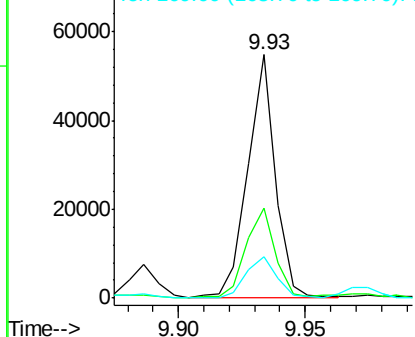
Delta R.T. -0.01 min

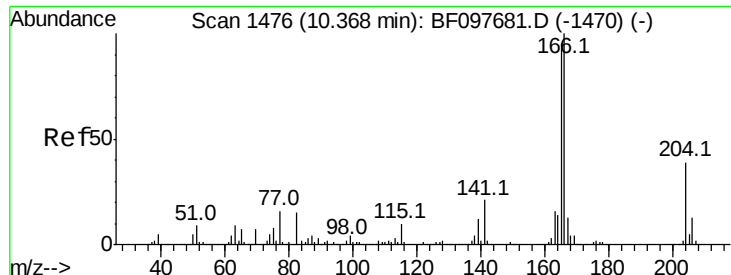
Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Tgt Ion:	168	Resp:	41854
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.6	45.8
169	16.8	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





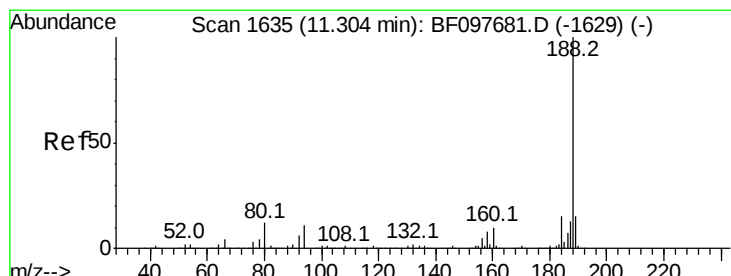
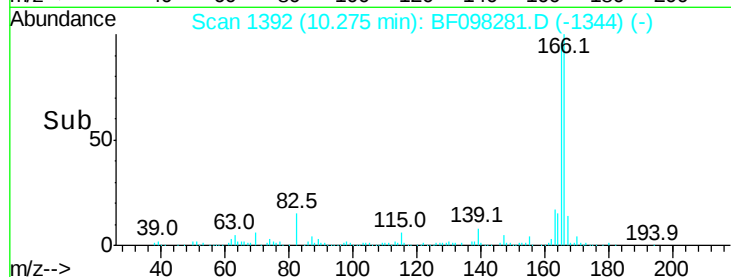
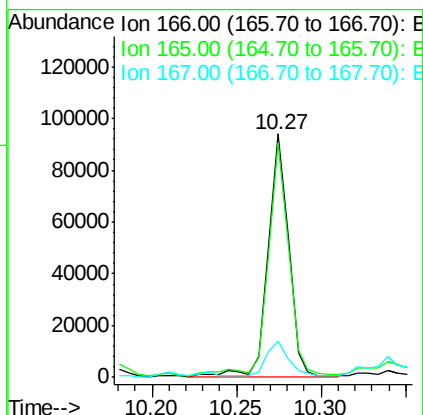
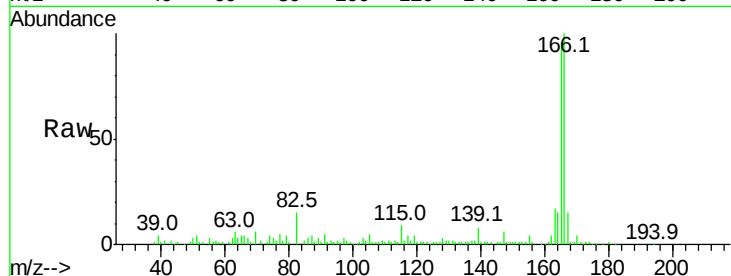
#57
Fluorene
 Concen: 6.356 ng
 RT: 10.27 min Scan# 1392
 Delta R.T. -0.02 min
 Lab File: BF098281.D
 Acq: 6 Sep 2017 19:14

Instrument :
 BNA_F
 ClientSampleId :
 TP10-WC1

Tot Ion	Ratio	Resp	Lower	Upper
166	100	78190		
165	96.3		78.8	118.2
167	15.0		10.6	16.0

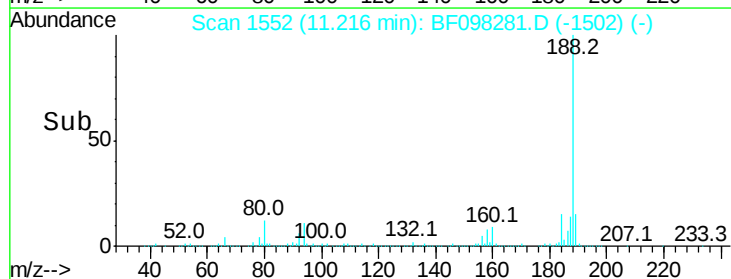
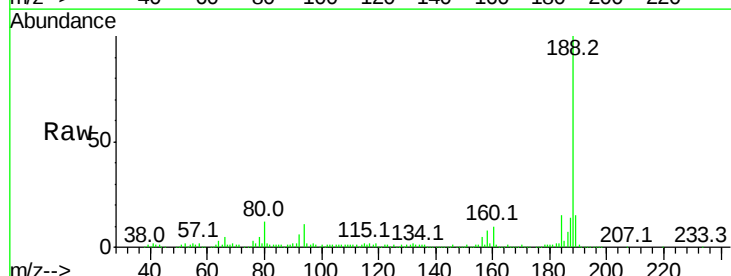
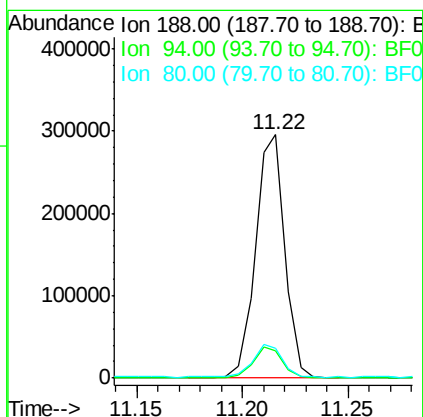
Manual Integrations
 APPROVED

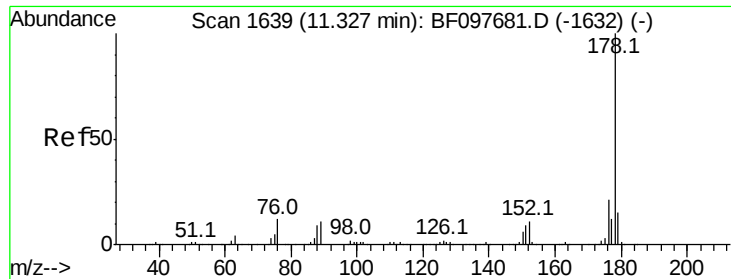
Sohil
 9/7/2017 5:44:30 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.22 min Scan# 1552
 Delta R.T. -0.01 min
 Lab File: BF098281.D
 Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	283975		
94	11.1		9.4	14.2
80	12.1		10.2	15.2





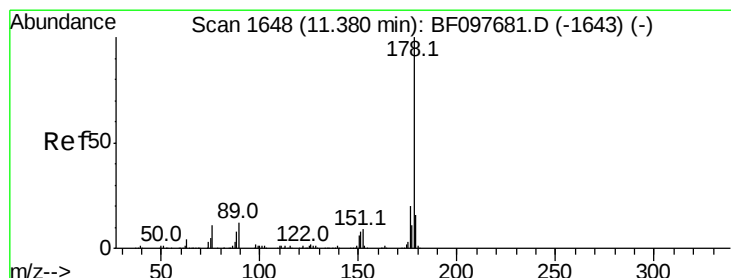
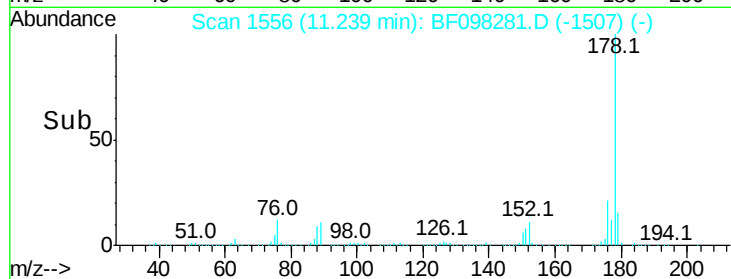
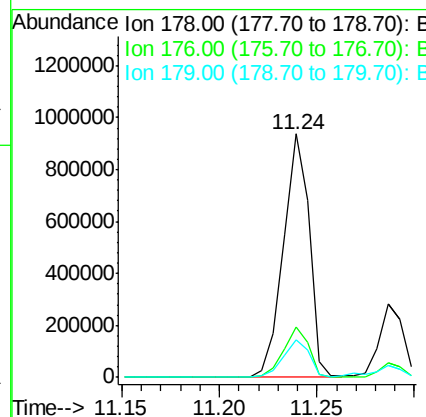
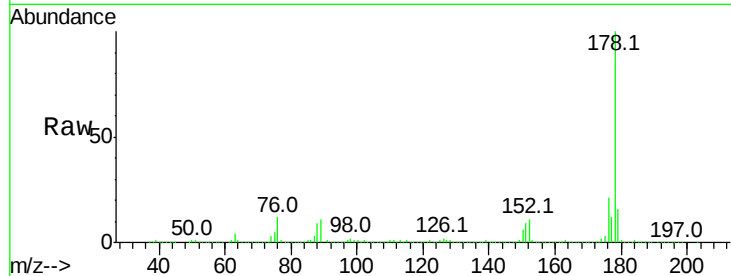
#70
Phenanthrene
Concen: 56.837 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampleId :
TP10-WC1

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.8	16.2	24.4
179	15.6	12.6	19.0

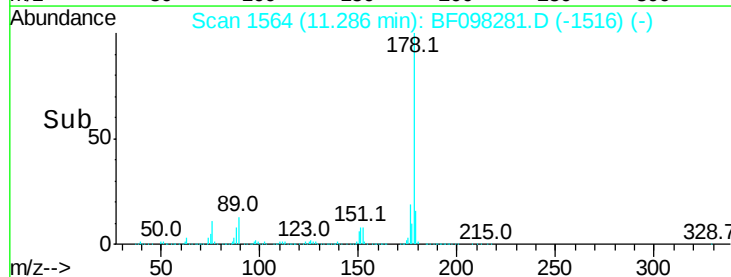
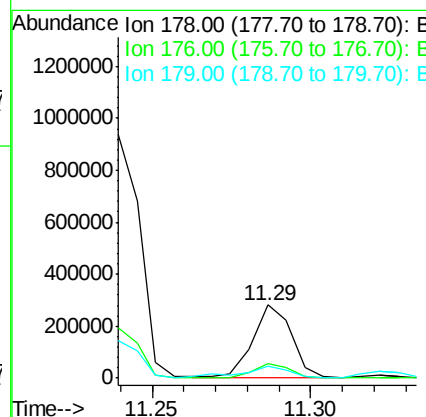
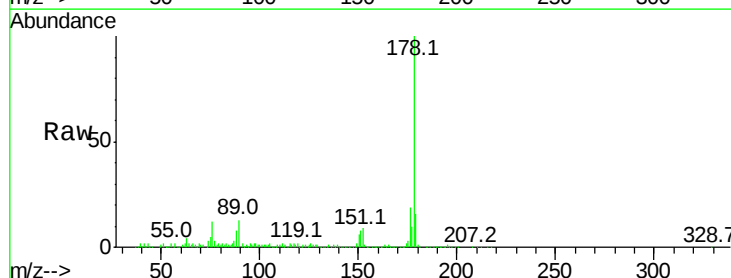
Manual Integrations
APPROVED

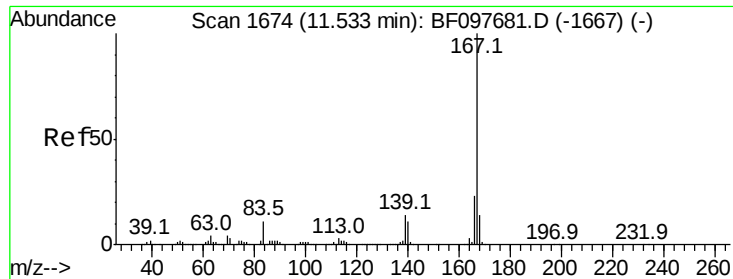
Sohil
9/7/2017 5:44:30 PM



#71
Anthracene
Concen: 15.398 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.02 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	16.4	12.7	19.1





#72

Carbazole

Concen: 5.547 ng

RT: 11.45 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Instrument :

BNA_F

ClientSampled :

TP10-WC1

Tot Ion:167 Resp: 80809

Ion Ratio Lower Upper

167 100

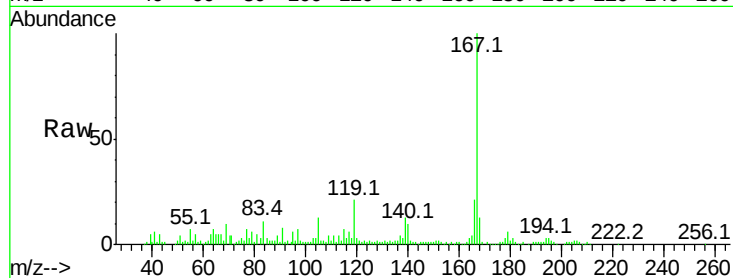
166 21.4 18.1 27.1

139 13.4 11.7 17.5

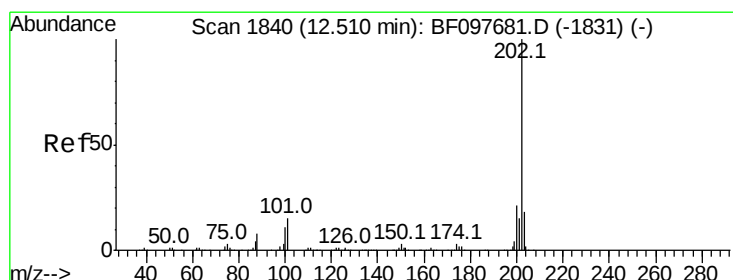
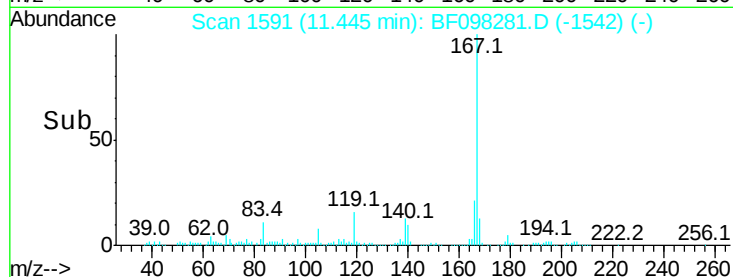
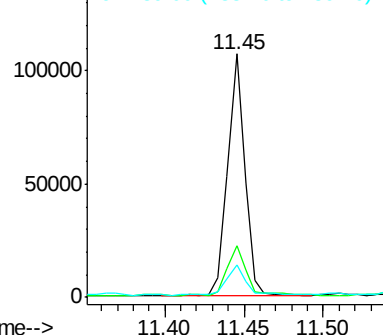
Manual Integrations
APPROVED

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9/7/2017 5:44:30 PM



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: 74.970 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.00 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

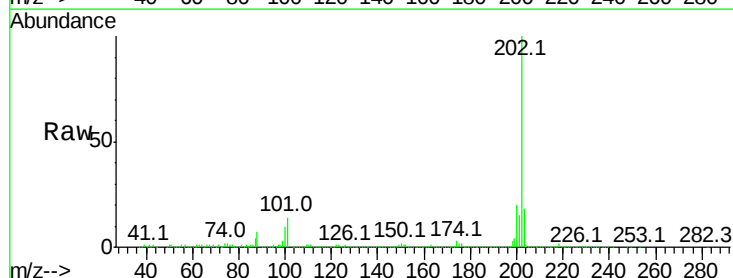
Tgt Ion:202 Resp: 1184119

Ion Ratio Lower Upper

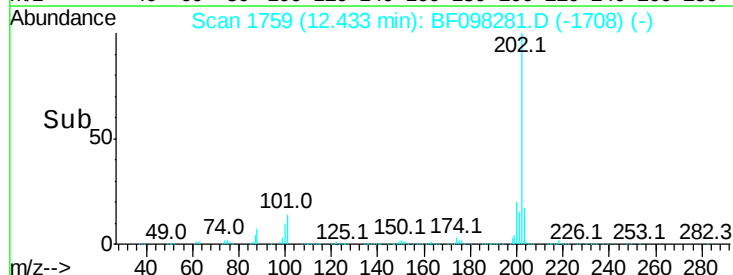
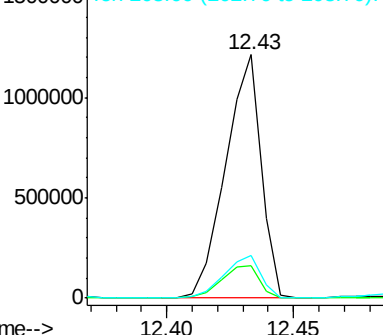
202 100

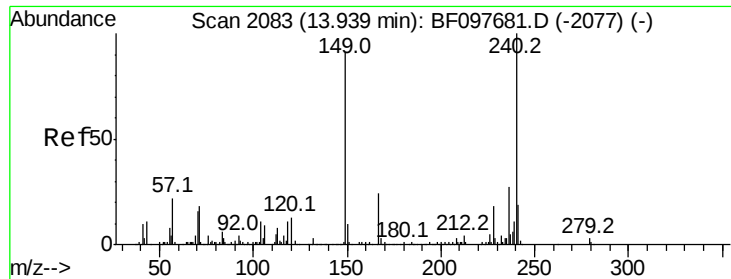
101 13.6 0.0 33.2

203 17.5 0.0 38.1



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: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF098281.D

Acq: 6 Sep 2017 19:14

Instrument :

BNA_F

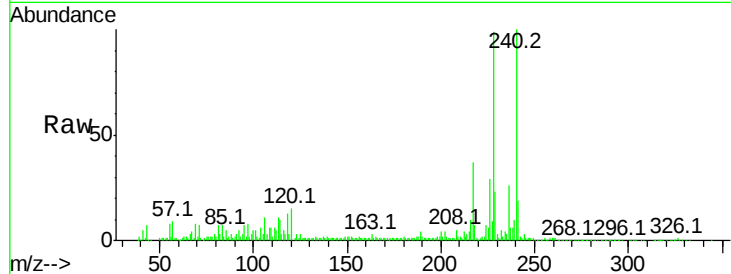
ClientSampleId :

TP10-WC1

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	26.5	20.5	30.7

Manual Integrations
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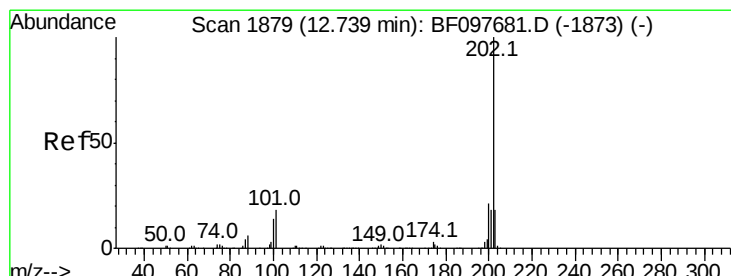
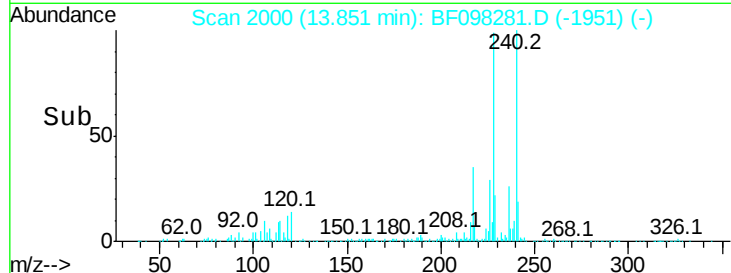
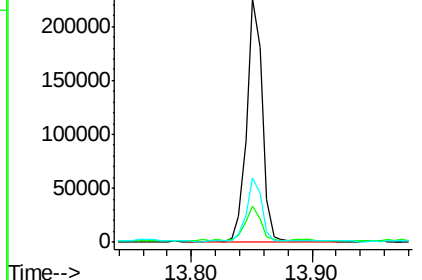
Sohil
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 68.659 ng

RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF098281.D

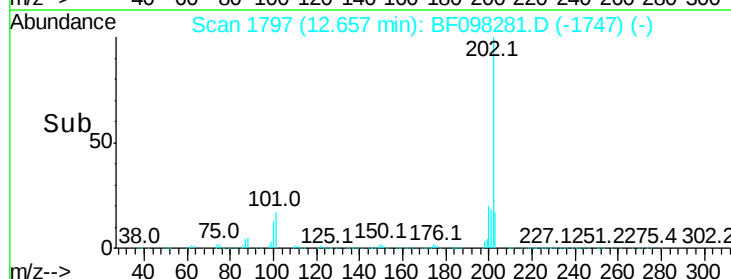
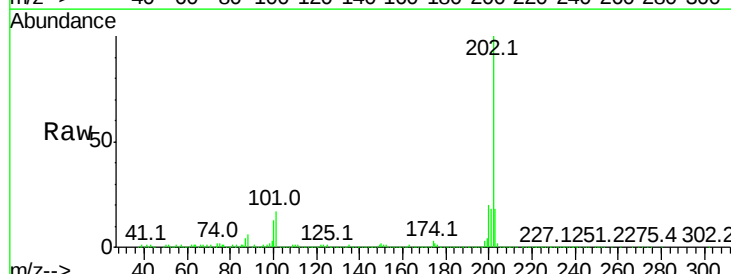
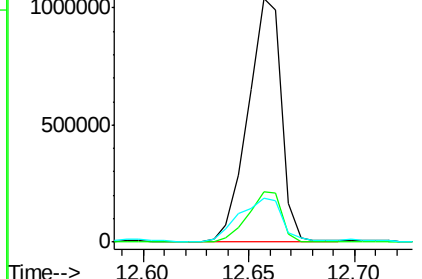
Acq: 6 Sep 2017 19:14

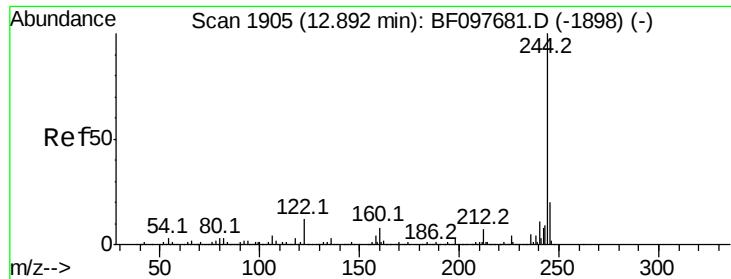
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.6	26.4
203	17.8	14.4	21.6

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





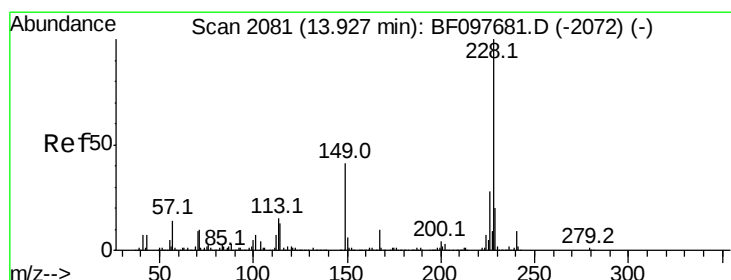
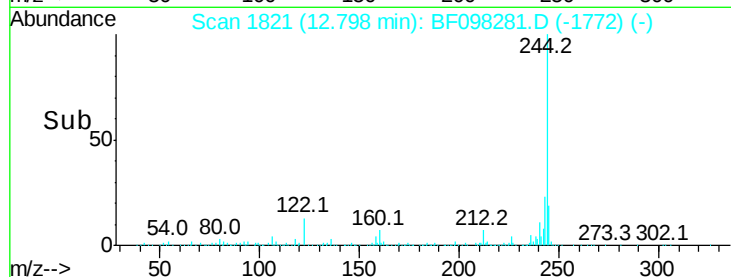
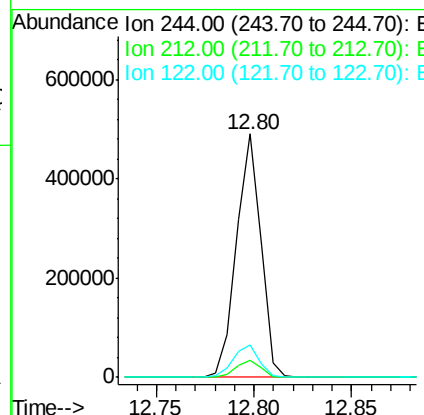
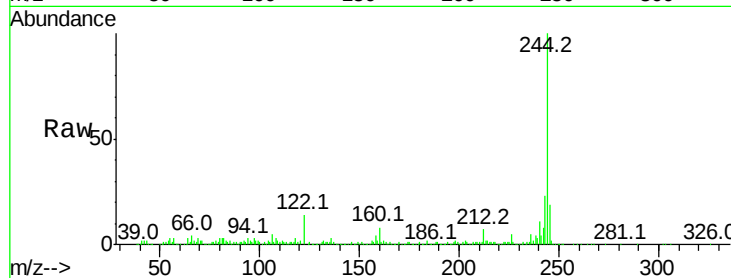
#78
 Terphenyl-d14
 Concen: 43.650 ng
 RT: 12.80 min Scan# 1821
 Delta R.T. -0.01 min
 Lab File: BF098281.D
 Acq: 6 Sep 2017 19:14

Instrument :
 BNA_F
 ClientSampleId :
 TP10-WC1

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	13.5	10.3	15.5

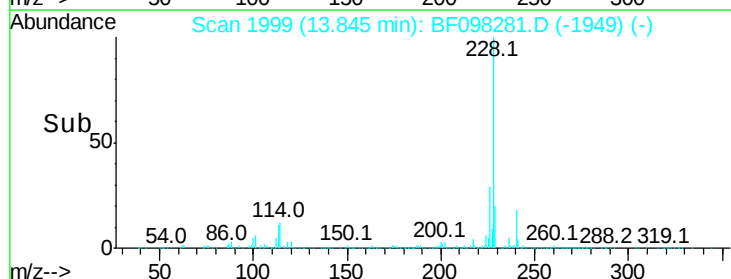
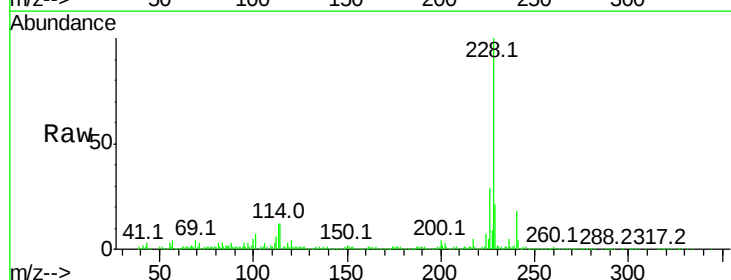
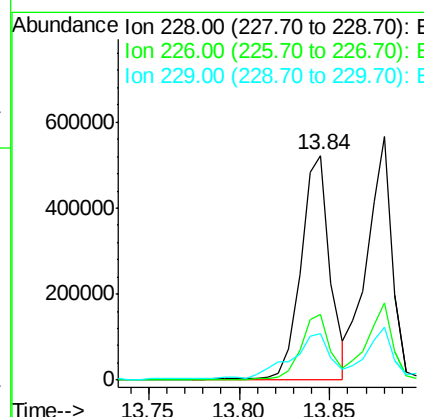
Manual Integrations
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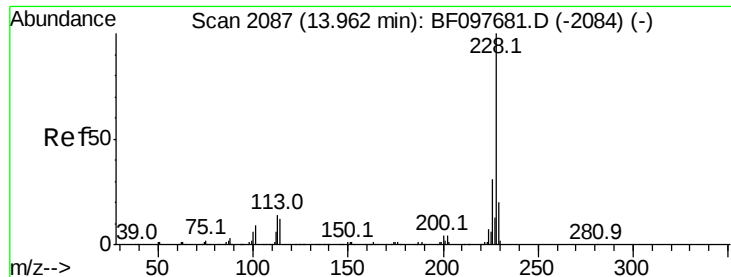
Sohil
 9/7/2017 5:44:30 PM



#80
 Benzo(a)anthracene
 Concen: 47.974 ng
 RT: 13.84 min Scan# 1999
 Delta R.T. -0.01 min
 Lab File: BF098281.D
 Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	20.7	16.3	24.5





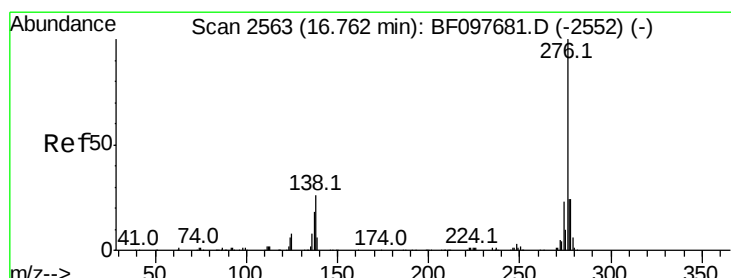
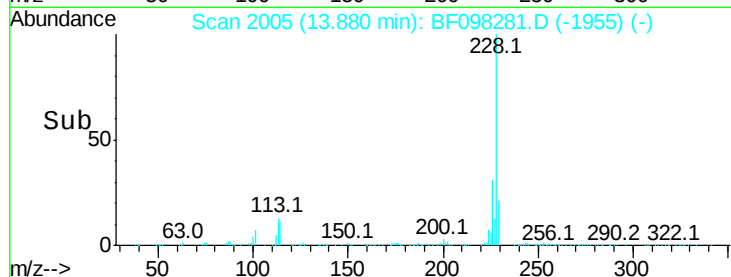
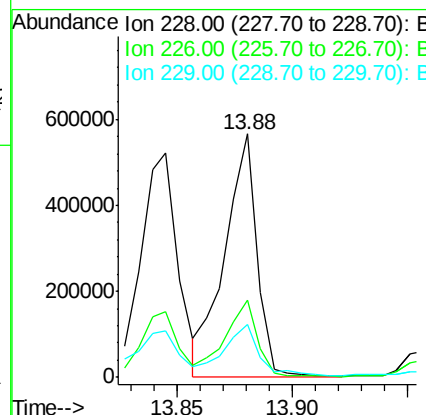
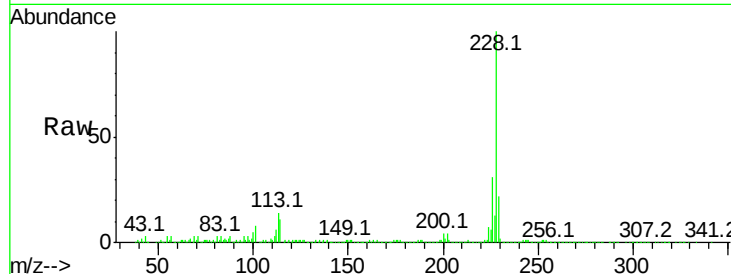
#82
Chrysene
Concen: 44.884 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampled :
TP10-WC1

Tot Ion	Ratio	Resp	Lower	Upper
228	100	545030		
226	31.5		24.9	37.3
229	21.6		15.8	23.6

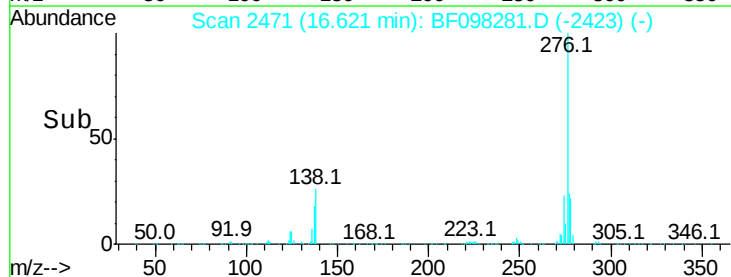
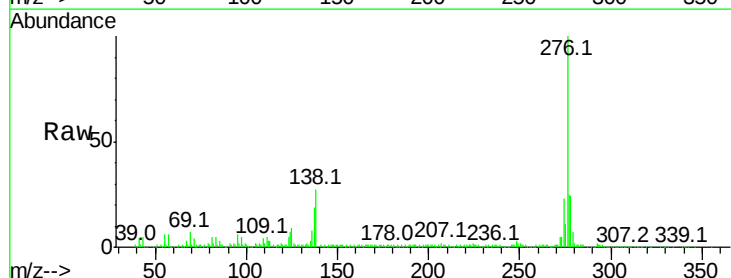
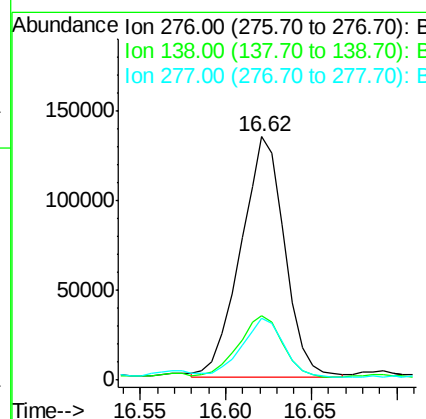
Manual Integrations
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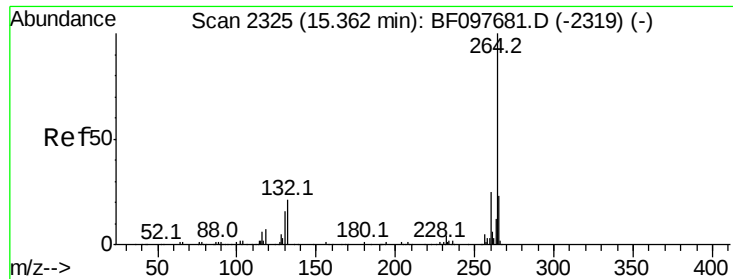
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 26.884 ng m
RT: 16.62 min Scan# 2471
Delta R.T. -0.02 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	240154		
138	6.4		27.8	41.6#
277	4.7		20.2	30.4#





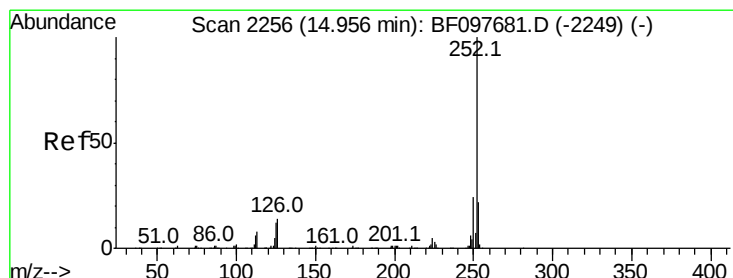
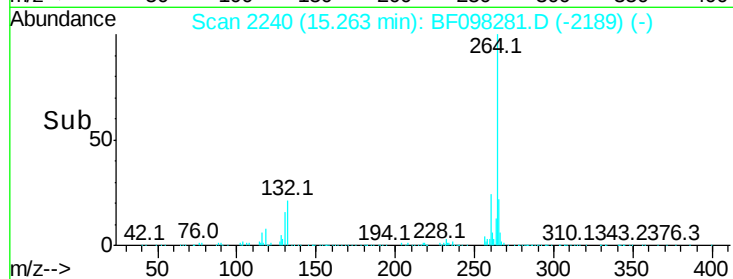
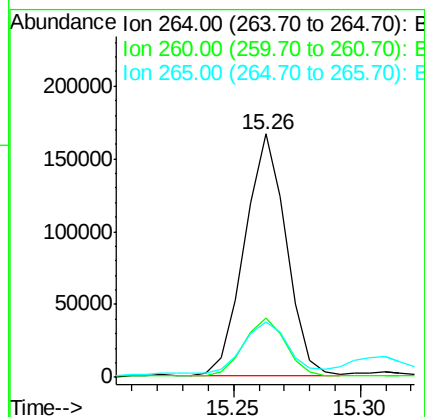
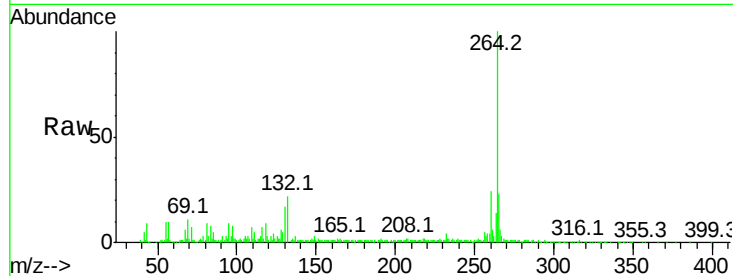
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.00 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampleId :
TP10-WC1

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	23.0	17.2	25.8

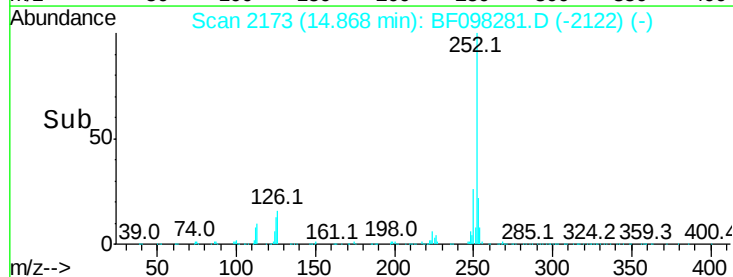
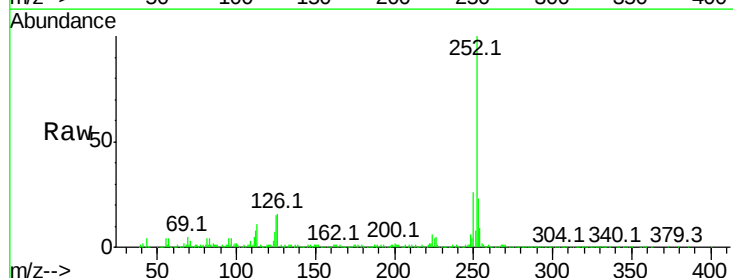
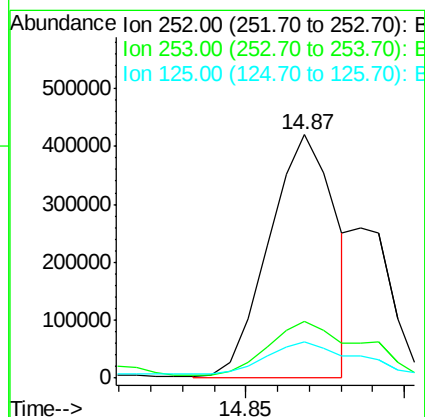
Manual Integrations
APPROVED

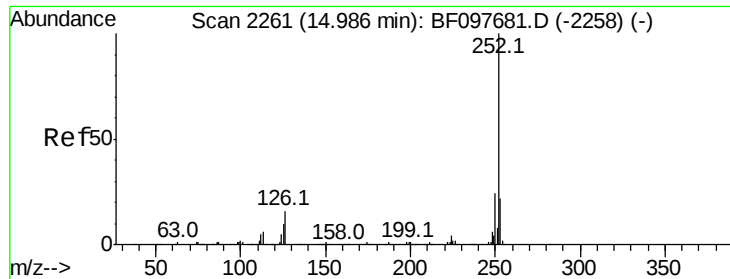
Sohil
9/7/2017 5:44:30 PM



#87
Benzo(b)fluoranthene
Concen: 51.350 ng m
RT: 14.87 min Scan# 2173
Delta R.T. 0.00 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	14.7	9.8	14.8





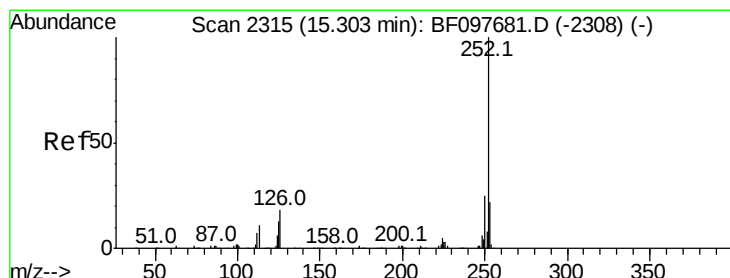
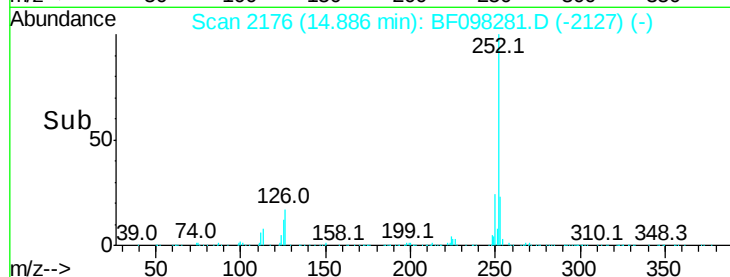
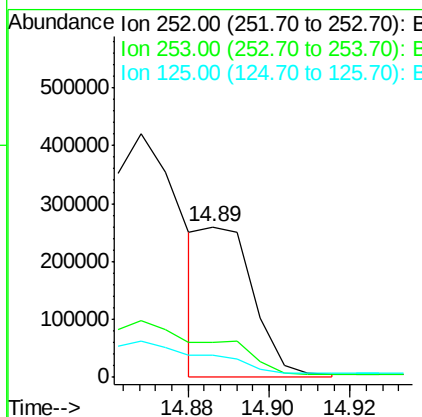
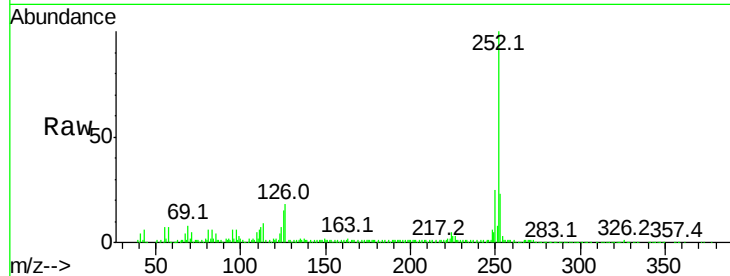
#88
Benzo(k)fluoranthene
Concen: 20.245 ng m
RT: 14.89 min Scan# 2176
Delta R.T. -0.01 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampleId :
TP10-WC1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	14.9	13.1	19.7

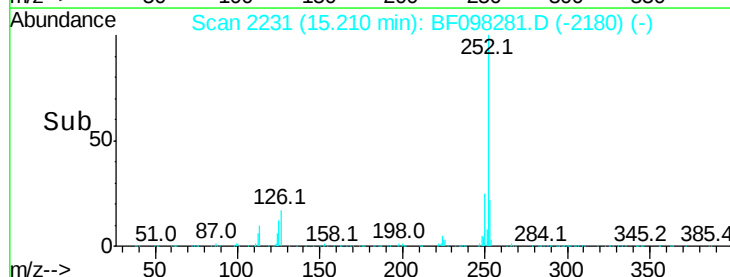
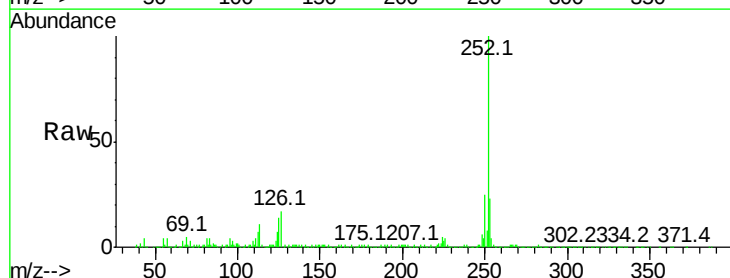
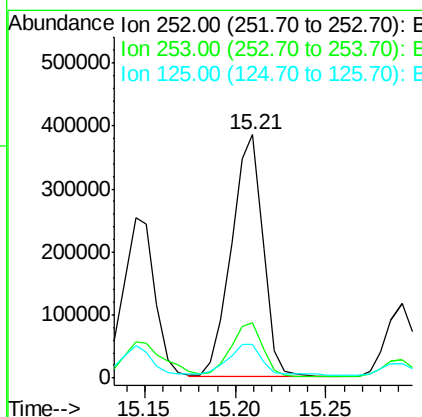
Manual Integrations
APPROVED

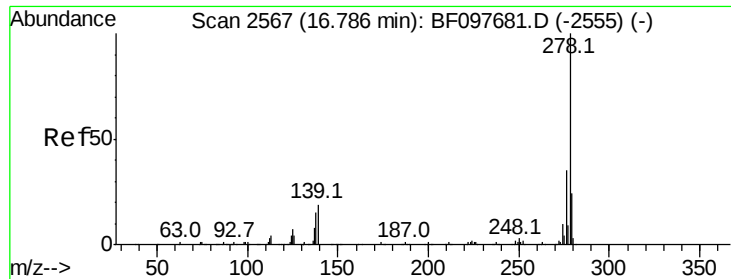
Sohil
9/7/2017 5:44:30 PM



#89
Benzo(a)pyrene
Concen: 44.049 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	13.7	11.0	16.4





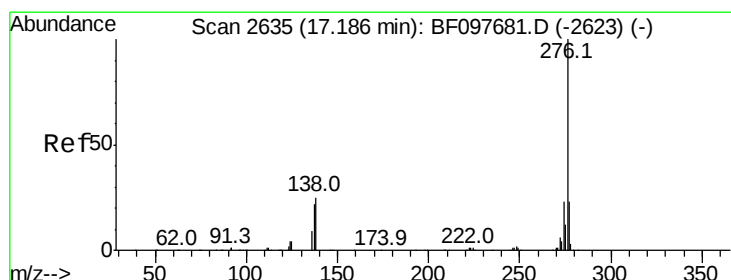
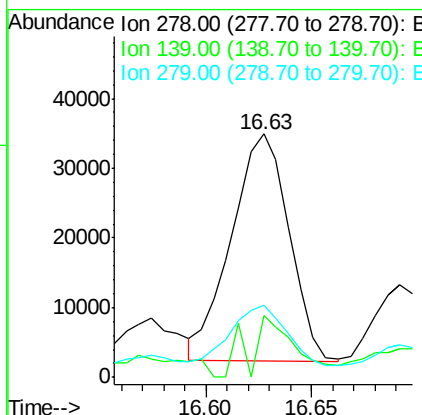
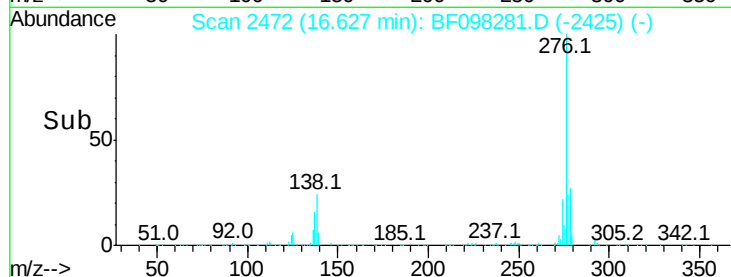
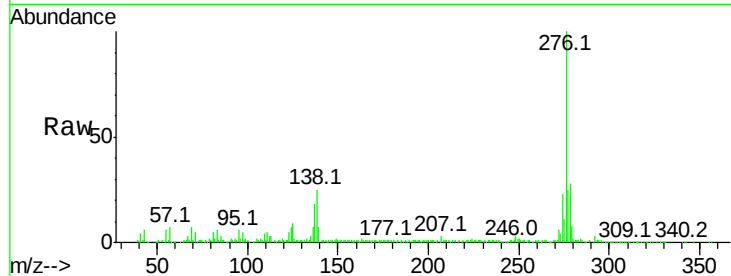
#90
Dibenzo(a,h)anthracene
Concen: 7.157 ng
RT: 16.63 min Scan# 2472
Delta R.T. -0.02 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Instrument :
BNA_F
ClientSampleId :
TP10-WC1

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.3	16.6	24.8#
279	29.5	19.3	28.9#

Manual Integrations
APPROVED

Sohil
9/7/2017 5:44:30 PM



#91
Benzo(g,h,i)perylene
Concen: 24.587 ng
RT: 17.03 min Scan# 2541
Delta R.T. -0.02 min
Lab File: BF098281.D
Acq: 6 Sep 2017 19:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.6	28.0
138	26.9	25.4	38.0

