

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\
 Data File : BF062917.D
 Acq On : 29 Jun 2017 17:49
 Operator : SJ/MA
 Sample : I3952-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 23MC-WC-2(COMP)

Manual Integrations
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 6/30/2017 2:51:57 PM

Quant Time: Jun 30 02:26:36 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	289562	20.00	ng	0.15
21) Naphthalene-d8	8.29	136	113	20.00	ng	0.23
38) Acenaphthene-d10	10.09	164	399	20.00	ng	0.28
63) Phenanthrene-d10	11.43	188	122	20.00	ng	0.15
75) Chrysene-d12	14.07	240	370	20.00	ng	0.16
86) Perylene-d12	15.50	264	1234	20.00	ng	0.16
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	828448	41.22	ng	0.00
7) Phenol-d6	6.40	99	1149093	47.22	ng	0.00
23) Nitrobenzene-d5	7.33	82	634542	388729.37	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	271543m	86476.41	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	926532	42526.65	ng	-0.02
78) Terphenyl-d14	12.87	244	759316	51208.36	ng	0.00
Target Compounds						
37) 2-Methylnaphthalene	8.76	142	6155m	1739.74	ng	Qvalue
45) 1,1'-Biphenyl	9.23	154	3163	103.32	ng	72
48) Acenaphthylene	9.66	152	9684	229.81	ng	98
49) Dimethylphthalate	9.52	163	296374	10379.20	ng	98
51) Acenaphthene	9.83	154	8133	327.96	ng	98
57) Fluorene	10.35	166	11651m	653.00	ng	
70) Phenanthrene	11.30	178	169681m	33426.00	ng	
71) Anthracene	11.36	178	34980	5130.73	ng	97
72) Carbazole	11.51	167	16581	2202.98	ng	98
74) Fluoranthene	12.49	202	254159m	37502.91	ng	
77) Pyrene	12.72	202	231766	7622.02	ng	98
80) Benzo(a)anthracene	13.90	228	80979m	3590.38	ng	
82) Chrysene	13.94	228	78477m	3364.21	ng	
85) Indeno(1,2,3-cd)pyrene	16.72	276	51775	2673.81	ng	98
87) Benzo(b)fluoranthene	14.93	252	87580m	1080.38	ng	
88) Benzo(k)fluoranthene	14.94	252	31299m	422.93	ng	
89) Benzo(a)pyrene	15.27	252	68844m	961.52	ng	
90) Dibenzo(a,h)anthracene	16.73	278	12383m	220.88	ng	
91) Benzo(a,h,i)perylene	17.14	276	57817	992.15	ng	96

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

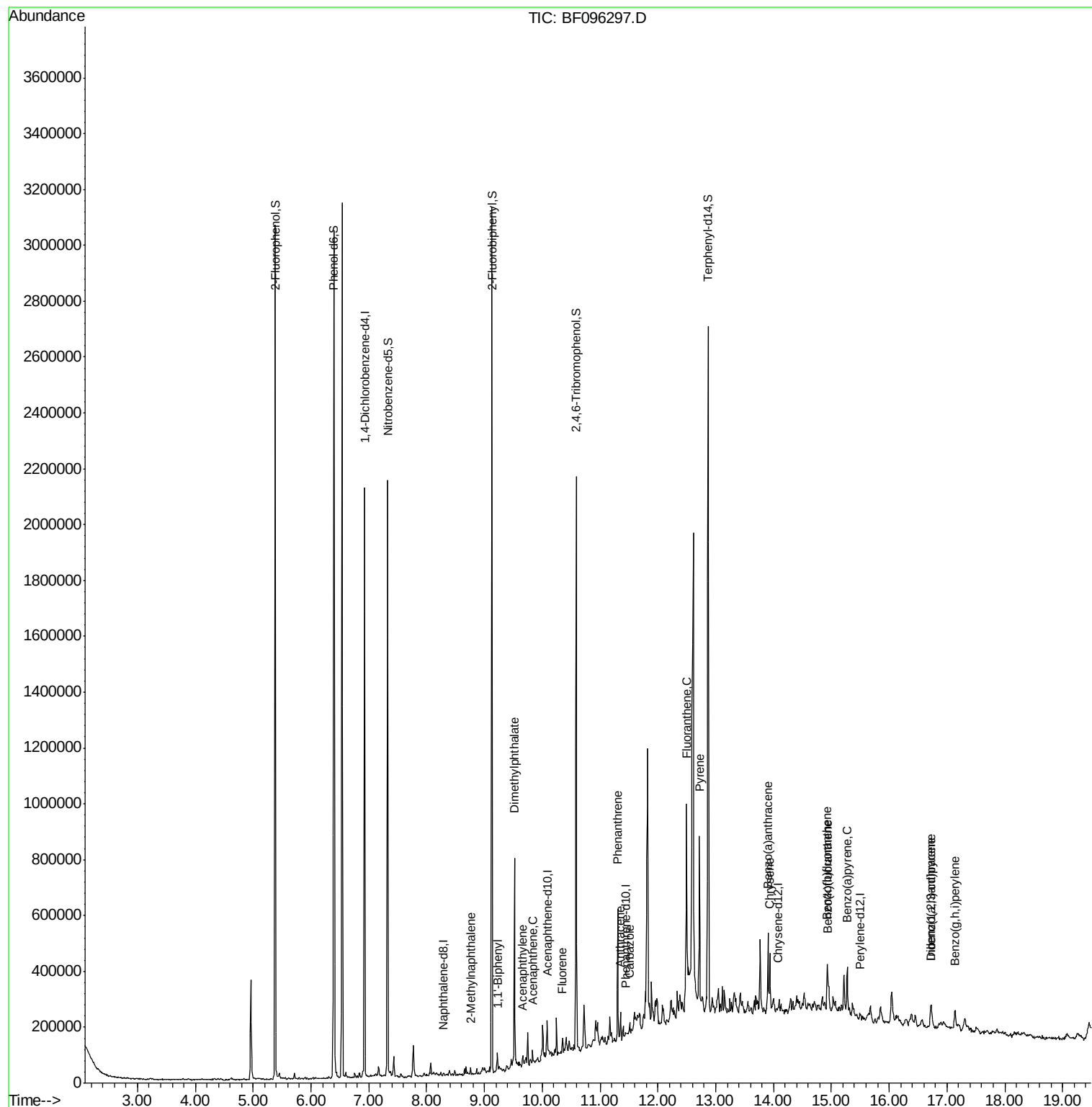
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\
Data File : BF096297.D
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Operator : SJ/MA
Sample : I3952-01
Misc :
ALS Vial : 3 Sample Multiplier: 1

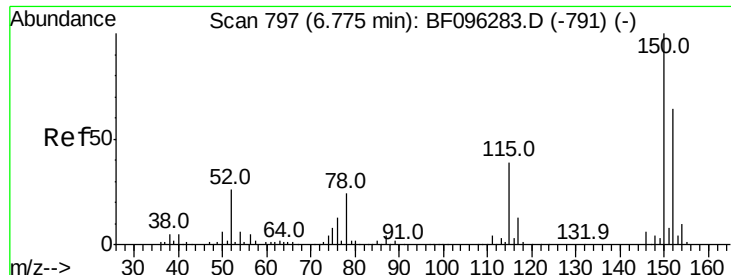
Instrument :
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23MC-WC-2(COMP)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

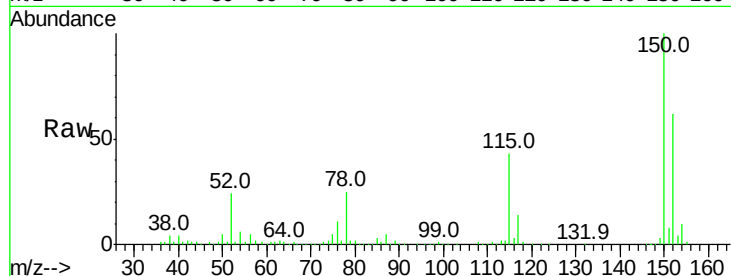
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.93 min Scan# 823
Delta R.T. 0.15 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

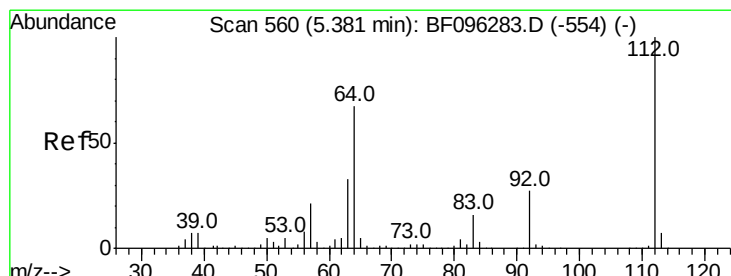
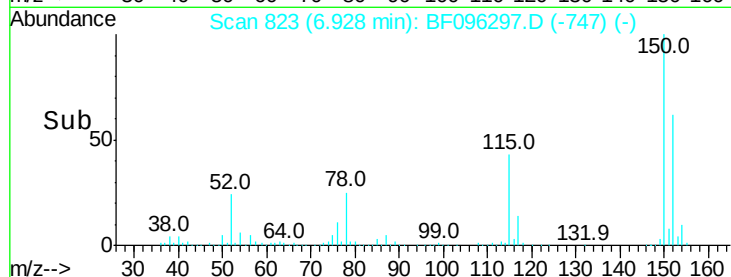
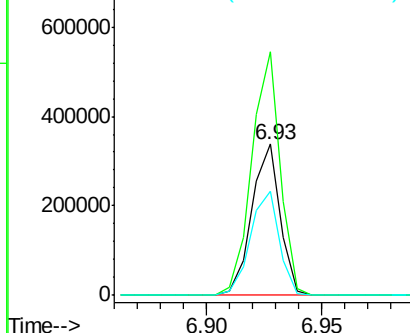
Tot Ion	Ratio	Lower	Upper
152	100		
150	161.0	126.2	189.2
115	68.9	52.2	78.2

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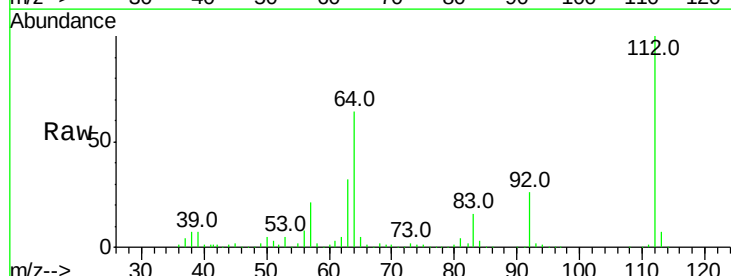
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



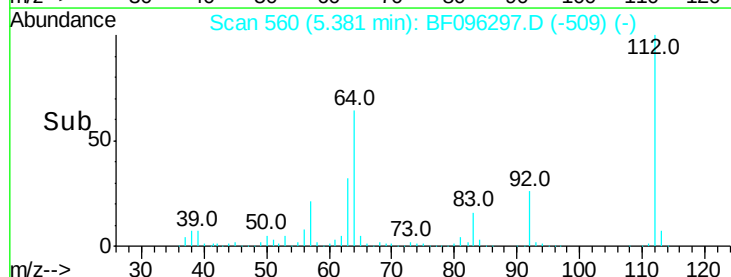
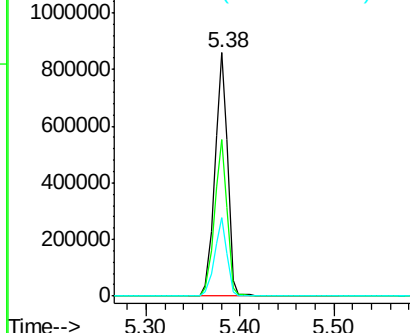
#5

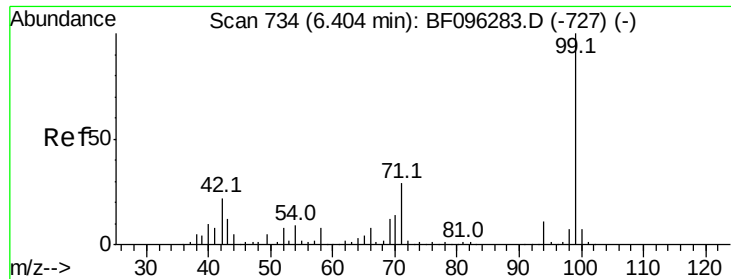
2-Fluorophenol
Concen: 41.22 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.5	46.0	69.0
63	32.3	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: 47.22 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

ClientSampleId :

23MC-WC-2(COMP)

Tot Ion: 99 Resp: 1149093

Ion Ratio Lower Upper

99 100

42 22.0 13.5 20.3#

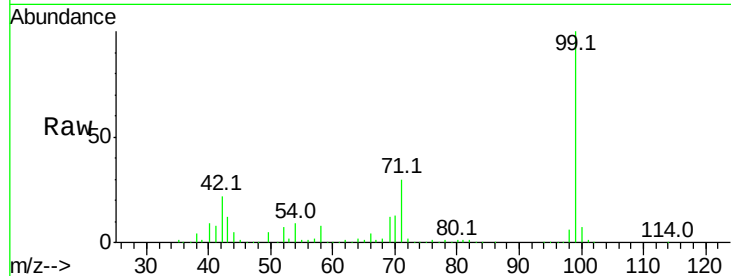
71 29.5 24.5 36.7

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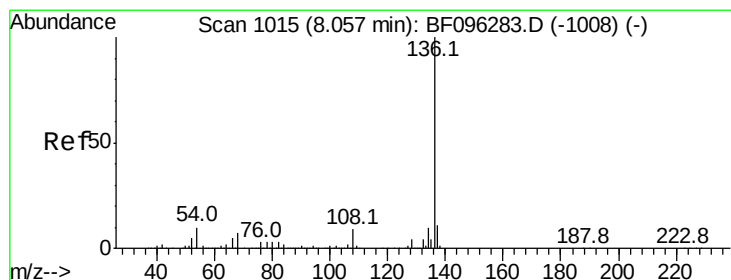
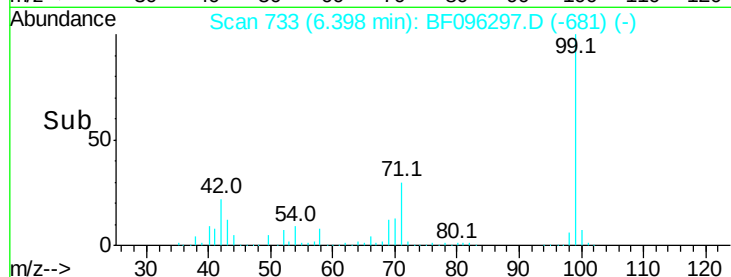
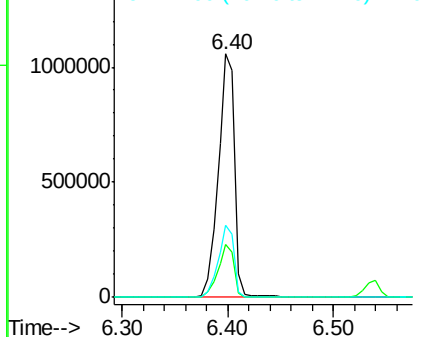
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.29 min Scan# 1054

Delta R.T. 0.23 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Tgt Ion: 136 Resp: 113

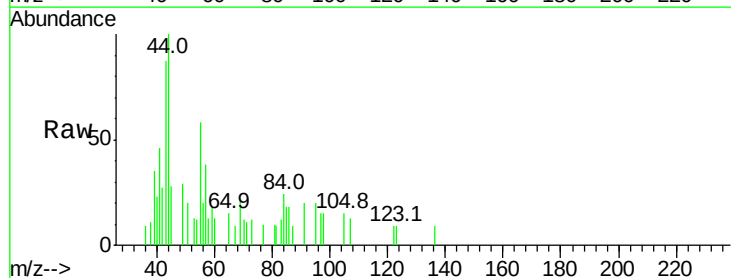
Ion Ratio Lower Upper

136 100

137 0.0 8.5 12.7#

54 129.7 4.9 7.3#

68 0.0 4.1 6.1#

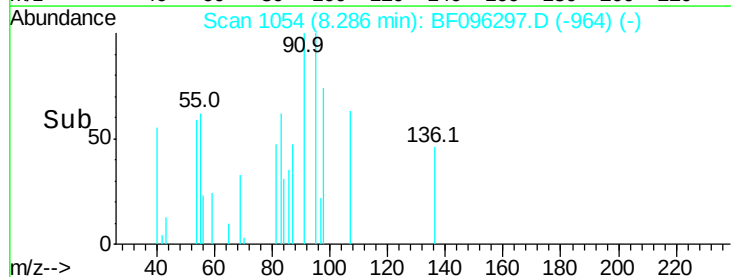
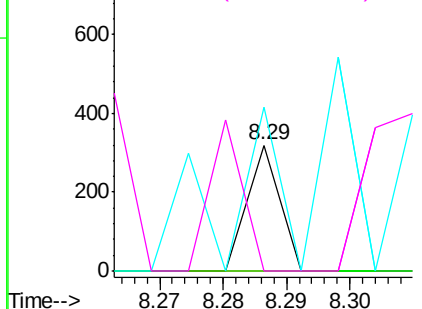


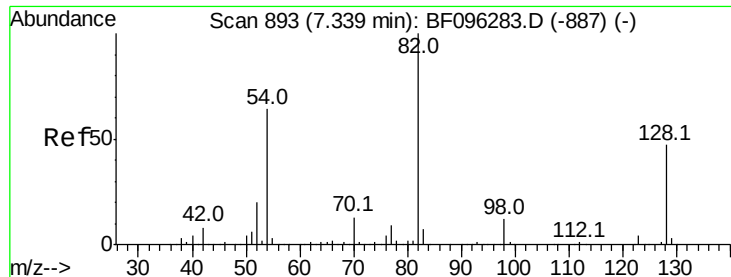
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





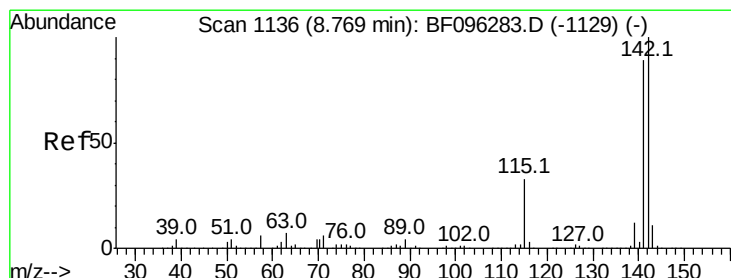
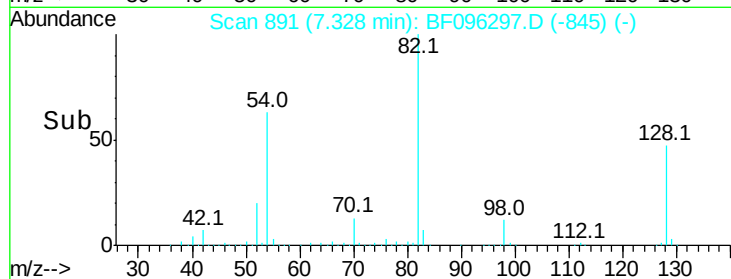
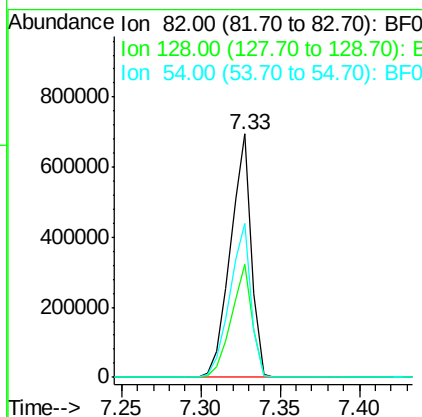
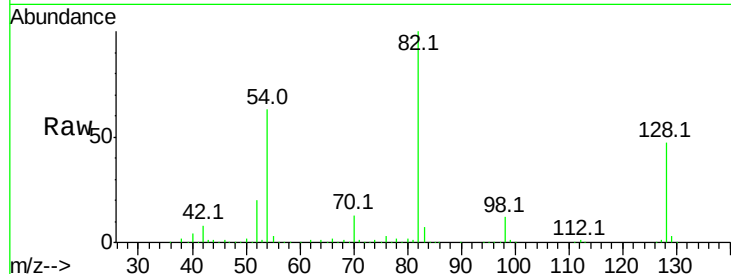
#23
Nitrobenzene-d5
Concen: 388729.37 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.03 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.6	34.0	51.0
54	63.4	42.2	63.2

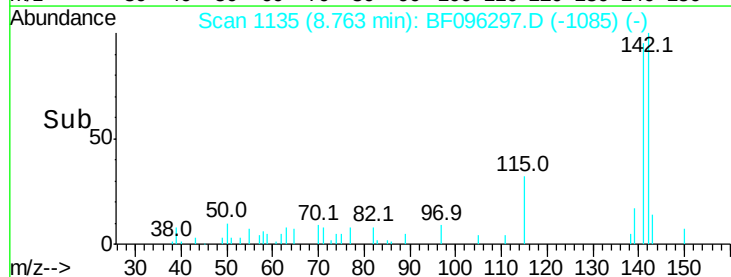
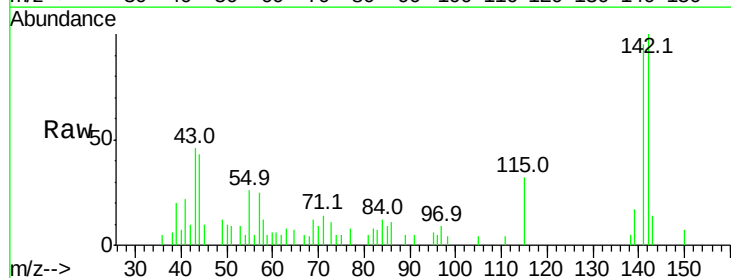
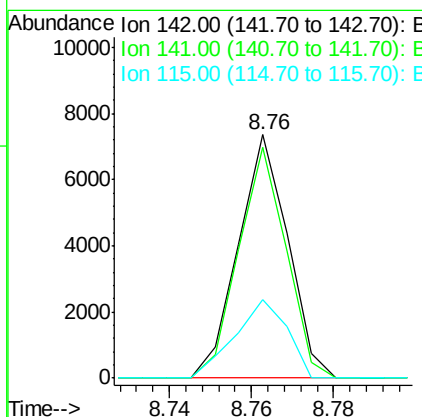
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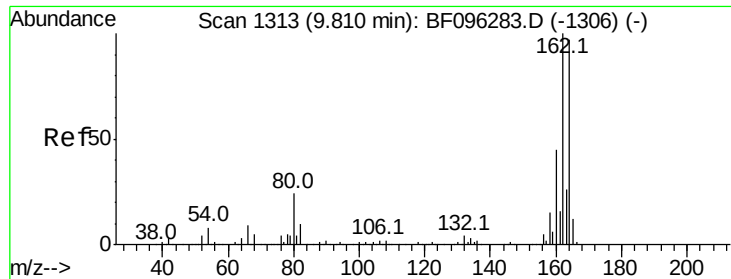
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#37
2-Methylnaphthalene
Concen: 1739.74 ng m
RT: 8.76 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.8	71.3	106.9
115	32.3	27.1	40.7





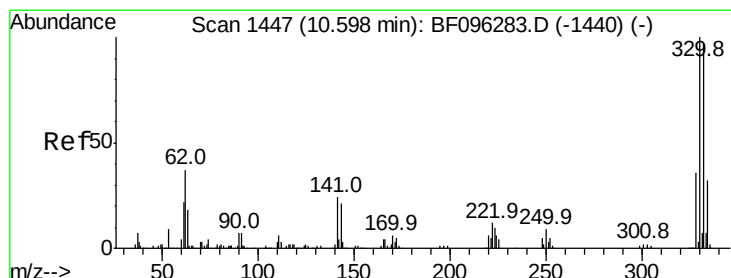
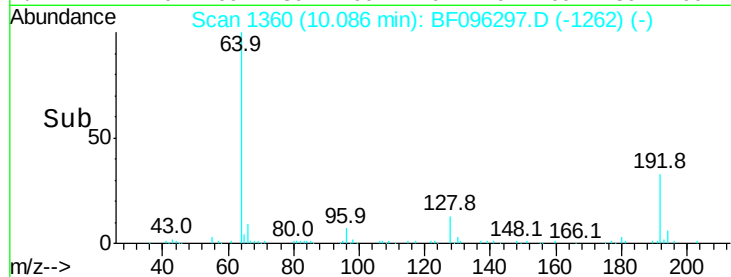
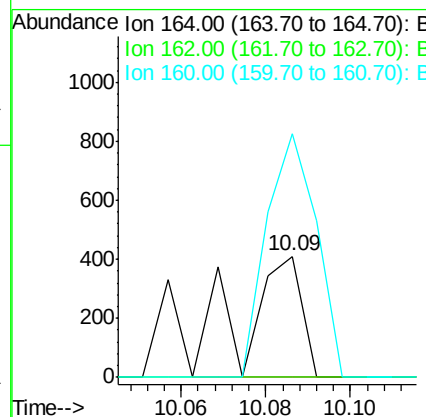
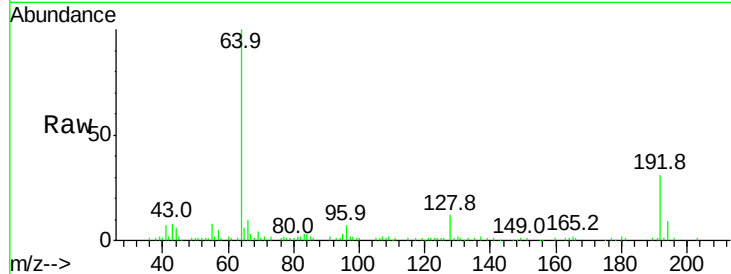
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.09 min Scan# 1360
Delta R.T. 0.28 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
164	100		
162	0.0	82.6	123.8#
160	201.2	36.2	54.2#

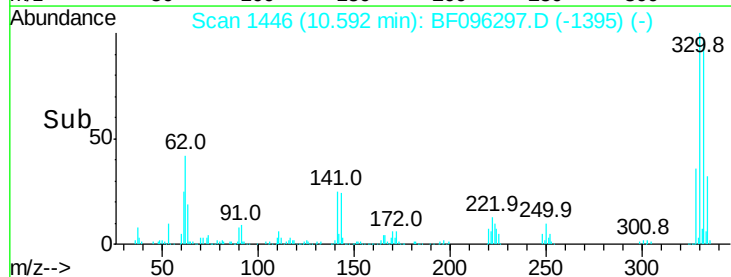
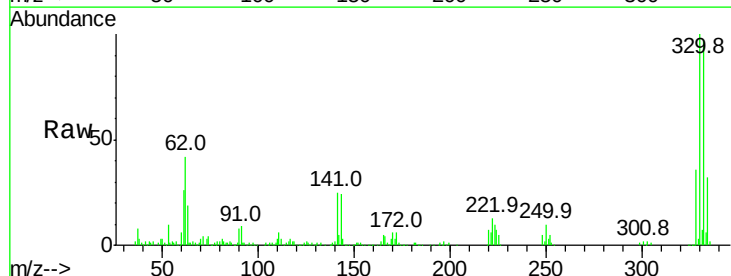
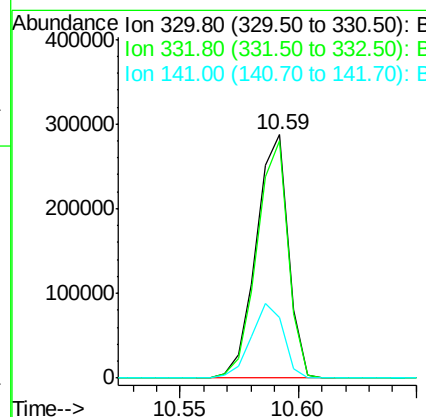
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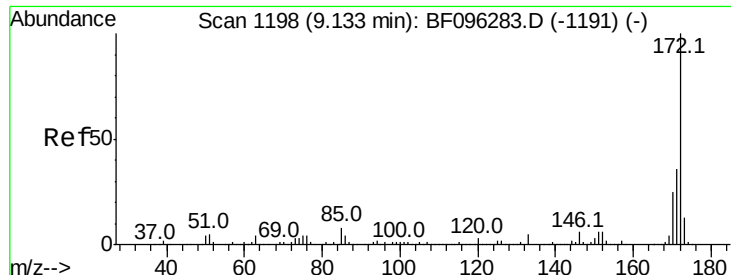
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#41
2,4,6-Tribromophenol
Concen: 86476.41 ng m
RT: 10.59 min Scan# 1446
Delta R.T. -0.00 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	76.6	115.0#
141	0.0	31.4	47.2#





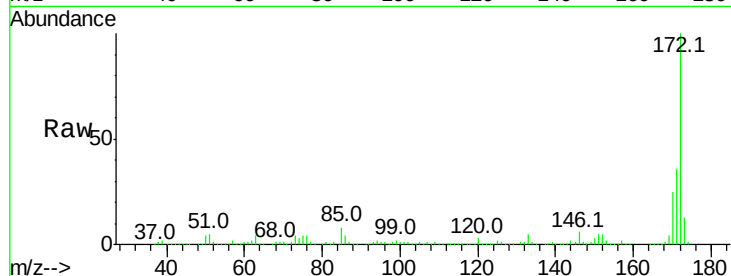
#44
2-Fluorobiphenyl
Concen: 42526.65 ng
RT: 9.13 min Scan# 1197
Delta R.T. -0.02 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

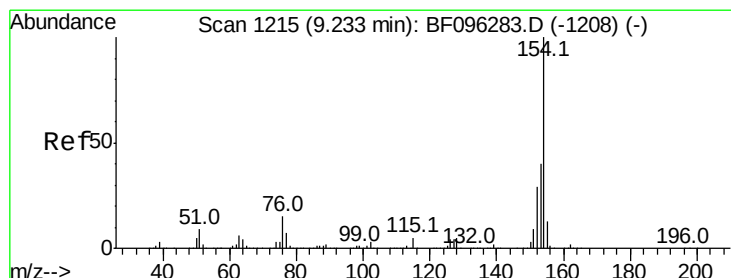
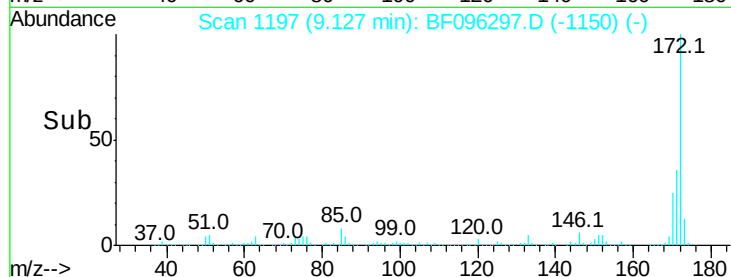
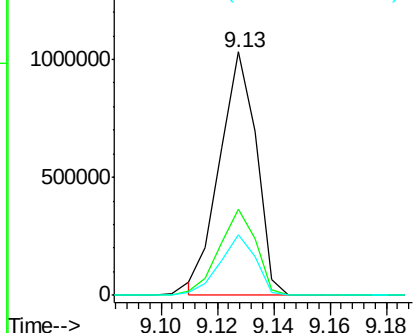
Tot Ion	Ratio	Resp	Lower	Upper
172	100	926532		
171	35.5		29.6	44.4
170	24.7		19.8	29.8

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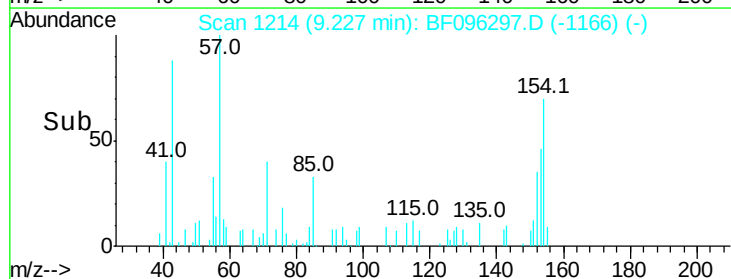
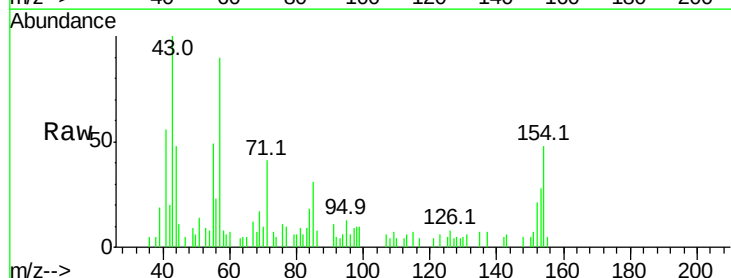
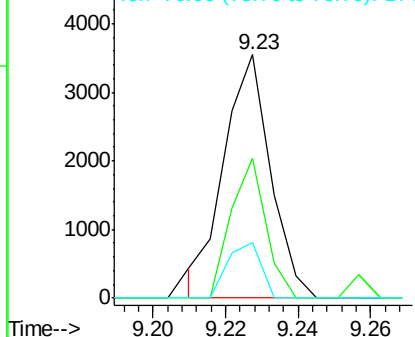
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

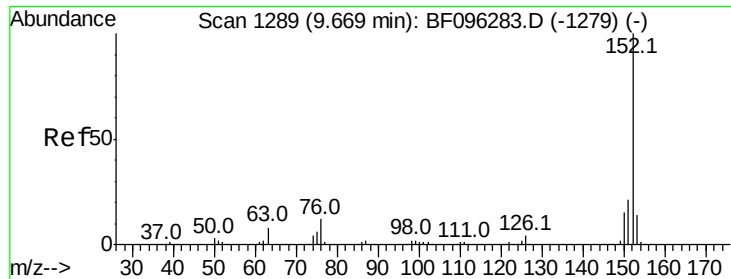


#45
1,1'-Biphenyl
Concen: 103.32 ng
RT: 9.23 min Scan# 1214
Delta R.T. -0.02 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	3163		
153	57.4		21.2	61.2
76	22.9		0.0	29.9

Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0





#48

Acenaphthylene

Concen: 229.81 ng

RT: 9.66 min Scan# 1288

Delta R.T. -0.01 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

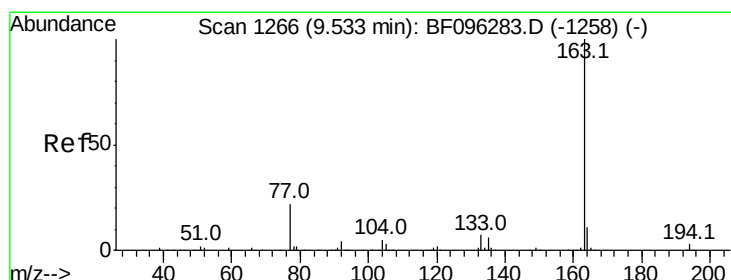
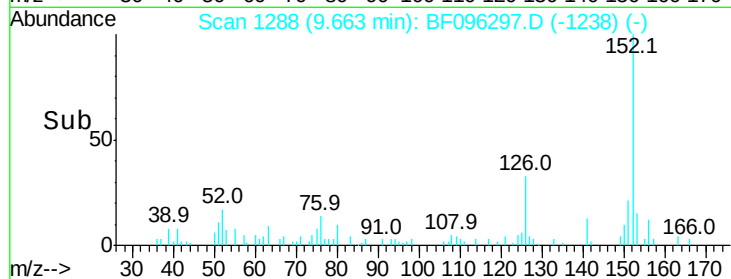
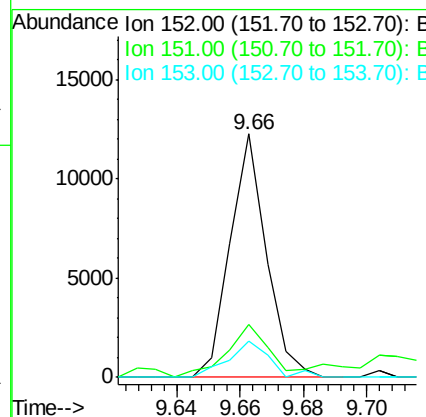
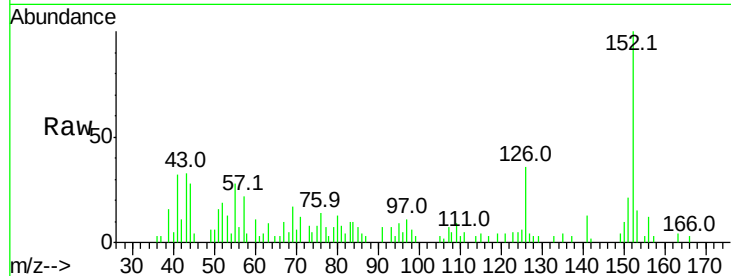
ClientSampleId :

23MC-WC-2(COMP)

Tot Ion:	152	Resp:	9684
Ion Ratio	Lower	Upper	
152	100		
151	21.5	16.8	25.2
153	14.6	10.8	16.2

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#49

Dimethylphthalate

Concen: 10379.20 ng

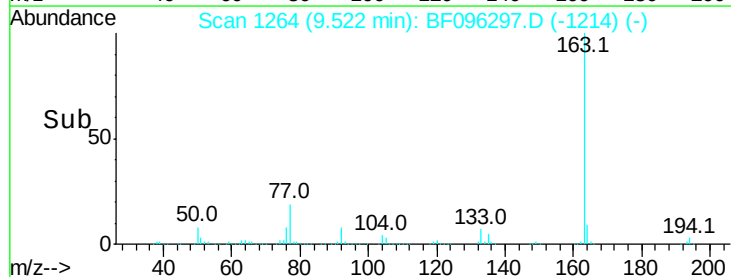
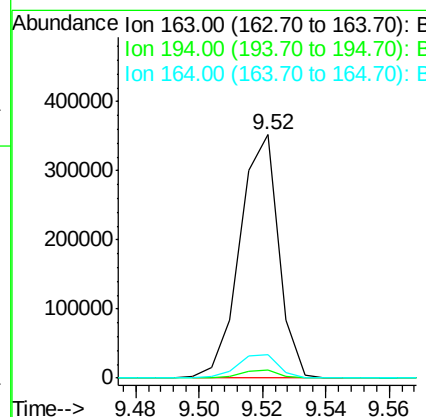
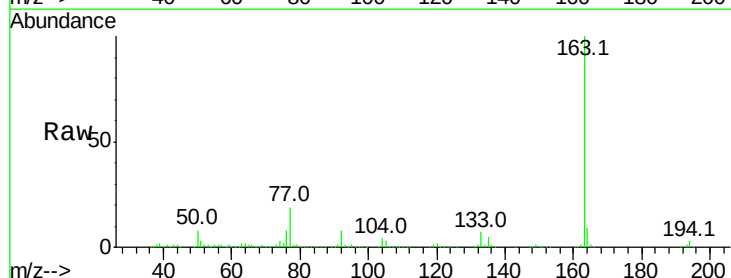
RT: 9.52 min Scan# 1264

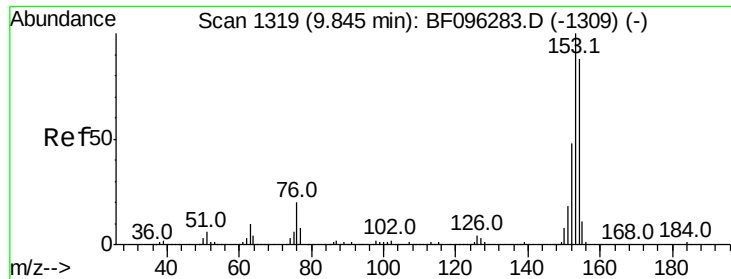
Delta R.T. -0.01 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Tgt Ion:	163	Resp:	296374
Ion Ratio	Lower	Upper	
163	100		
194	3.1	2.6	4.0
164	9.5	8.4	12.6





#51

Acenaphthene

Concen: 327.96 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

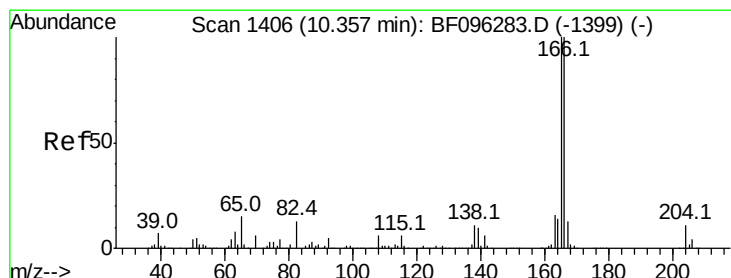
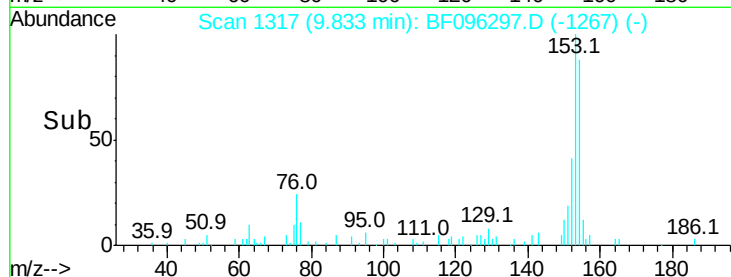
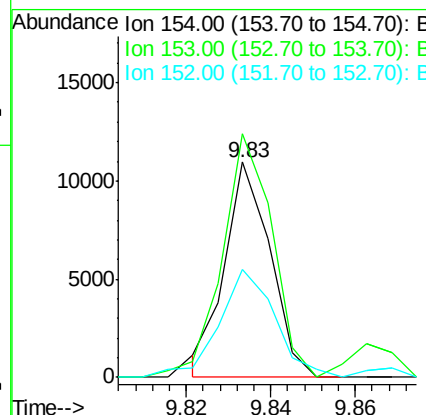
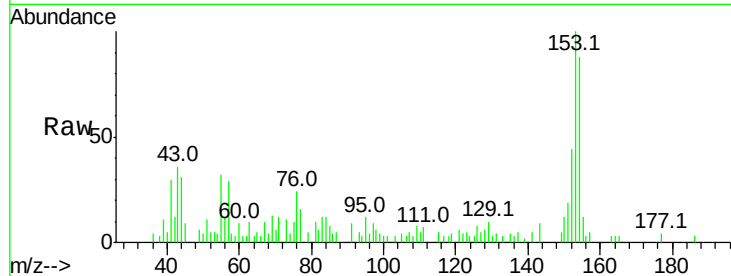
ClientSampleId :

23MC-WC-2(COMP)

Tot Ion:	154	Resp:	8133
Ion Ratio	Lower	Upper	
154	100		
153	113.1	90.5	135.7
152	50.1	43.6	65.4

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#57

Fluorene

Concen: 653.00 ng m

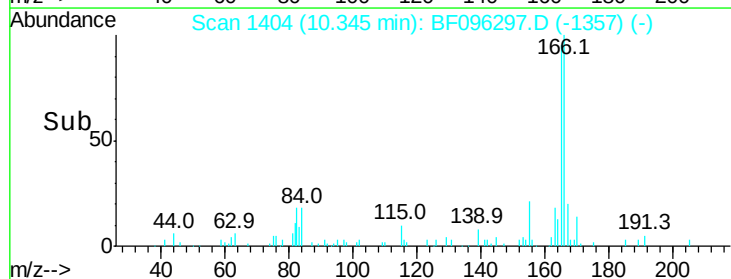
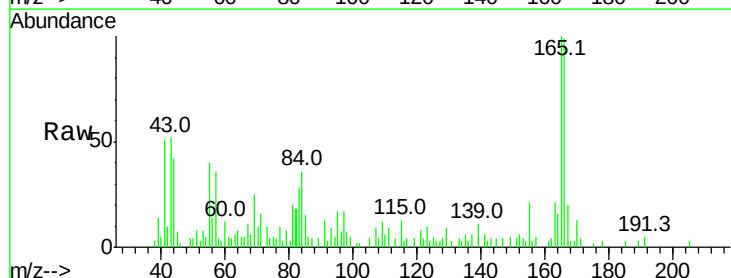
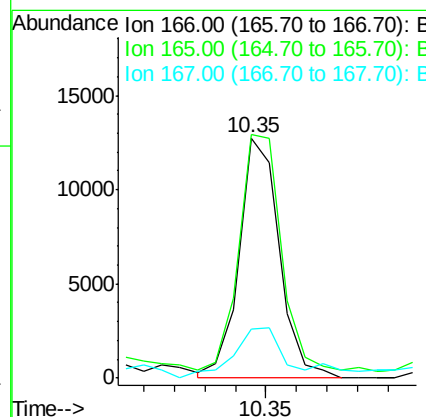
RT: 10.35 min Scan# 1404

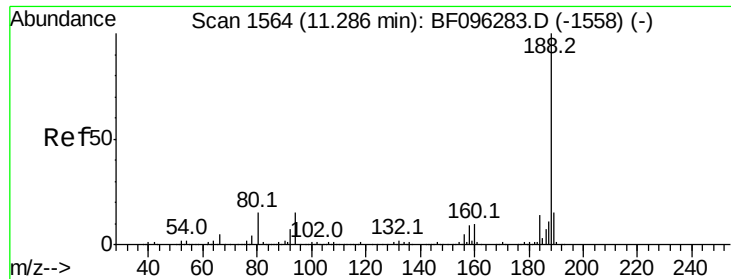
Delta R.T. -0.02 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Tgt Ion:	166	Resp:	11651
Ion Ratio	Lower	Upper	
166	100		
165	101.5	78.8	118.2
167	20.4	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.15 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

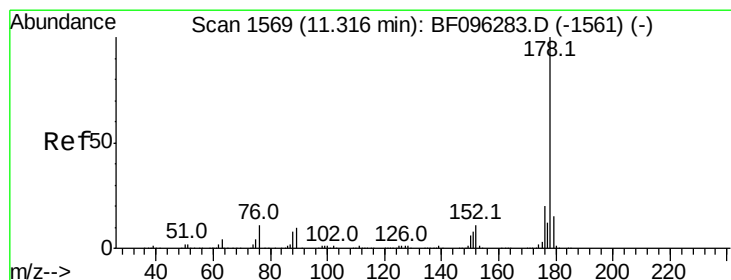
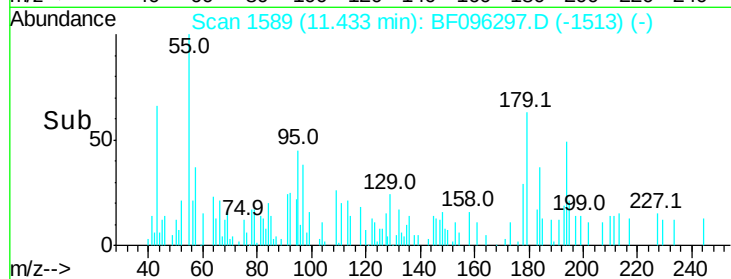
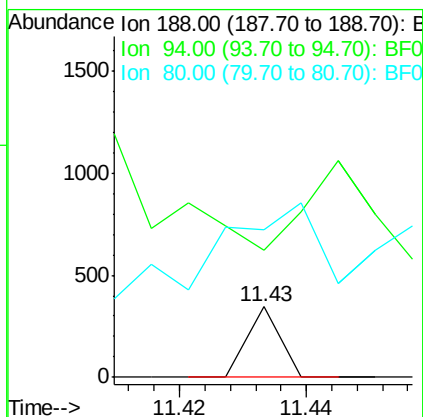
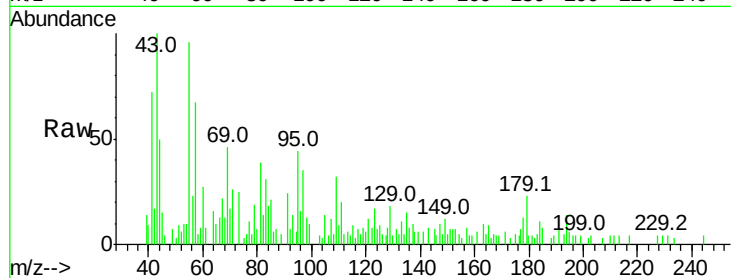
ClientSampleId :

23MC-WC-2(COMP)

Tot Ion:188	Resp:	122
Ion Ratio	Lower	Upper
188 100		
94 179.8	9.4	14.2#
80 209.0	10.2	15.2#

Manual Integrations
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#70

Phenanthrene

Concen: 33426.00 ng m

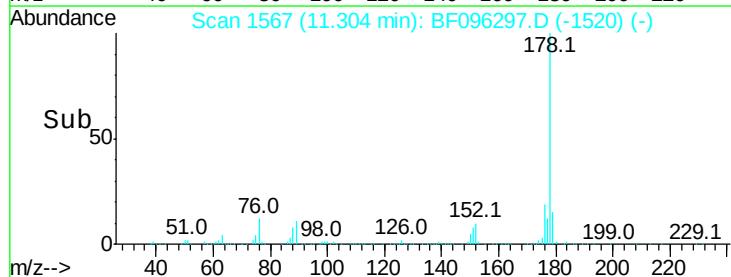
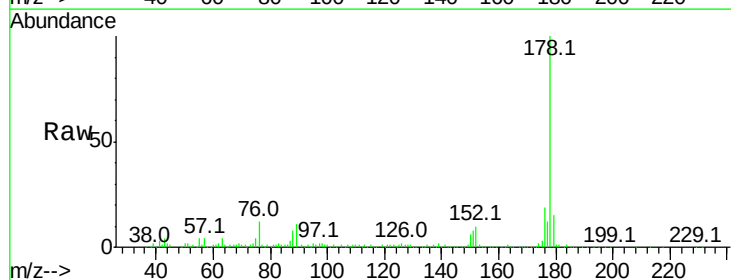
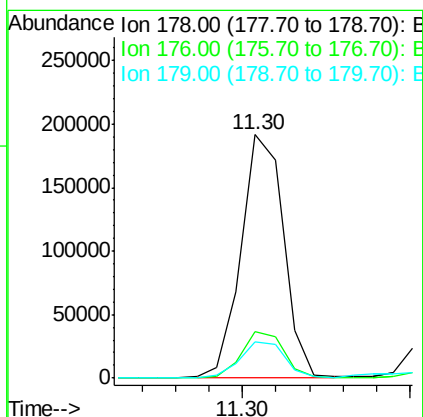
RT: 11.30 min Scan# 1567

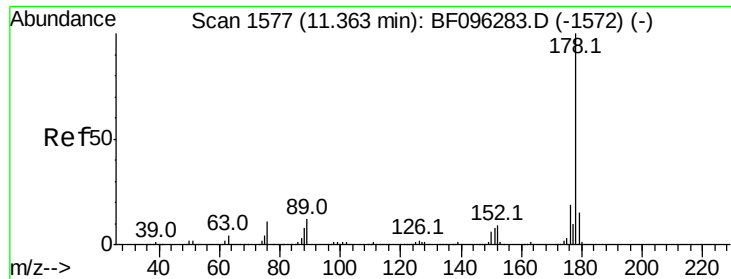
Delta R.T. -0.02 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Tgt Ion:178	Resp:	169681
Ion Ratio	Lower	Upper
178 100		
176 19.3	16.2	24.4
179 14.7	12.6	19.0





#71

Anthracene

Concen: 5130.73 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.02 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

ClientSampleId :

23MC-WC-2(COMP)

Tot Ion:178 Resp: 34980

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

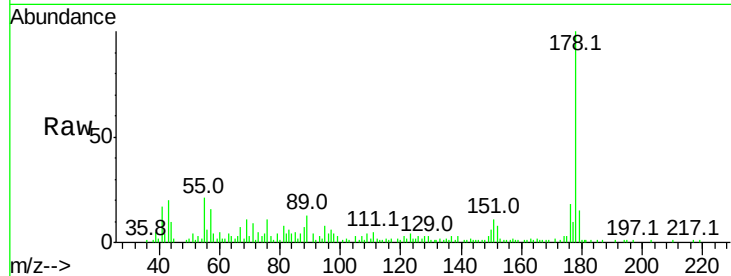
179 15.2 12.7 19.1

Manual Integrations

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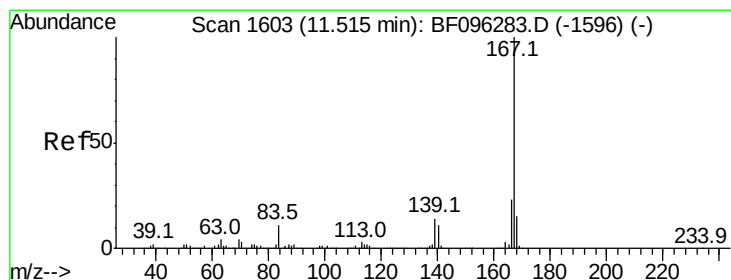
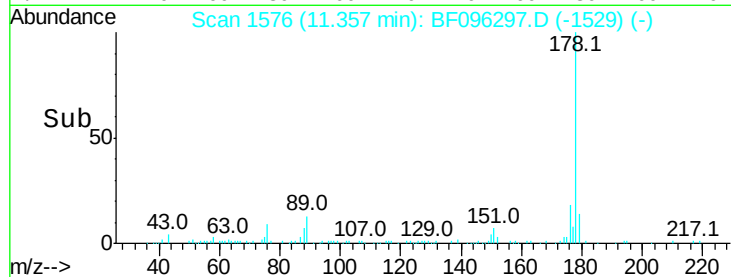
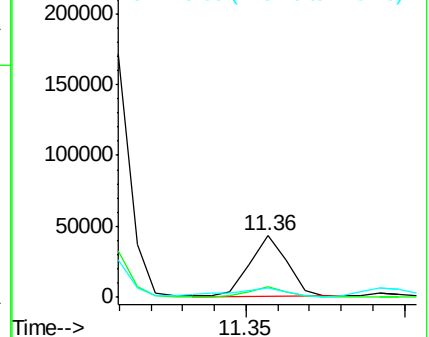
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2202.98 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

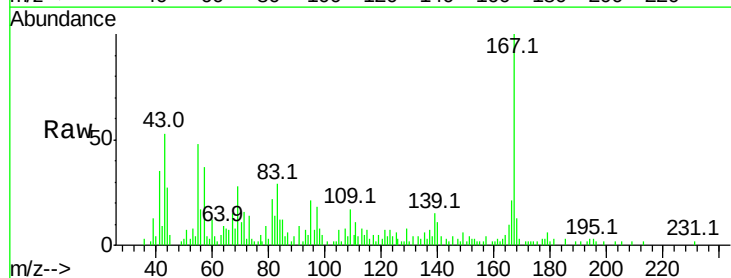
Tgt Ion:167 Resp: 16581

Ion Ratio Lower Upper

167 100

166 21.3 18.1 27.1

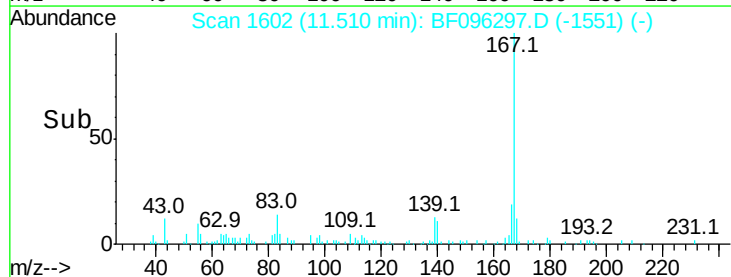
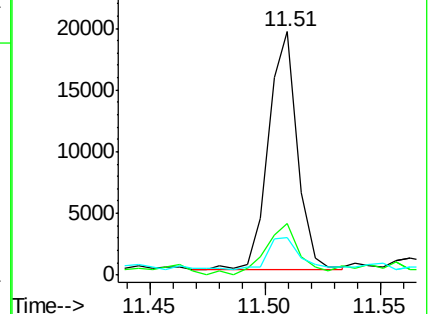
139 15.2 11.7 17.5

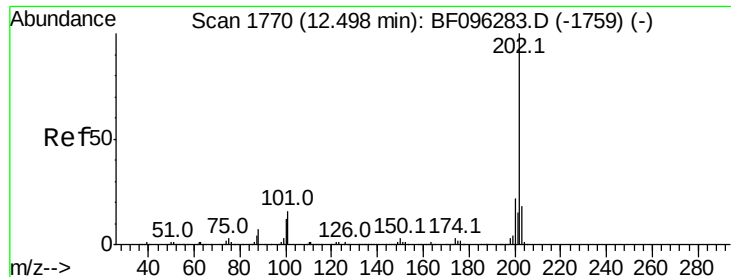


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 37502.91 ng m

RT: 12.49 min Scan# 1769

Delta R.T. -0.00 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

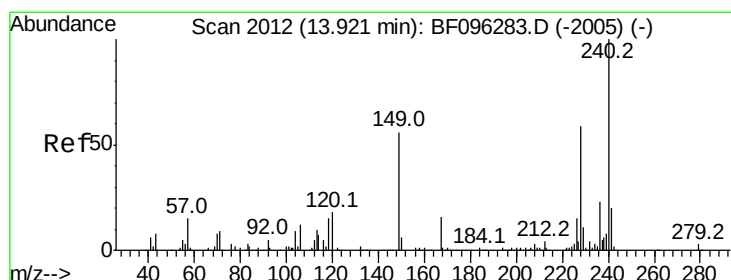
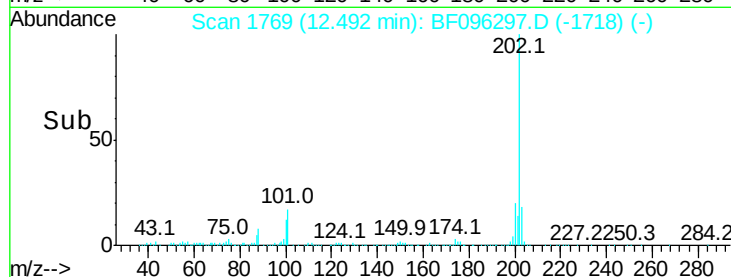
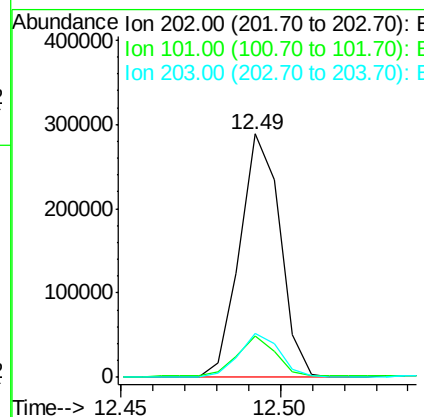
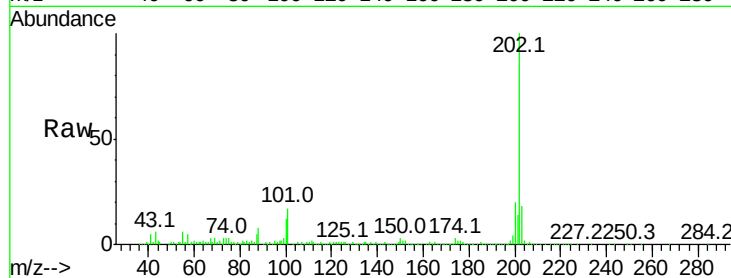
ClientSampleId :

23MC-WC-2(COMP)

Tot Ion:	202	Resp:	254159
Ion Ratio	Lower	Upper	
202	100		
101	17.1	0.0	33.2
203	18.2	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

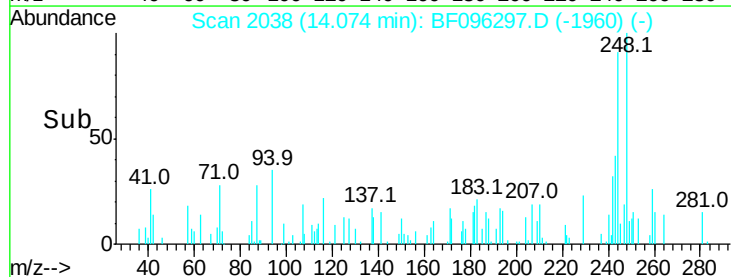
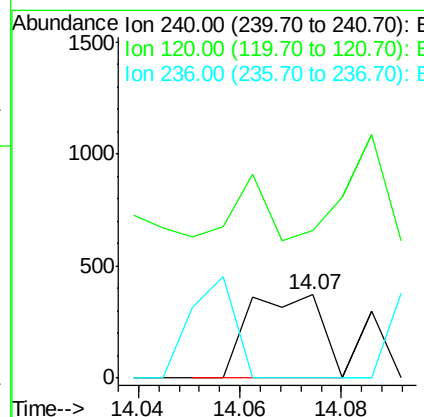
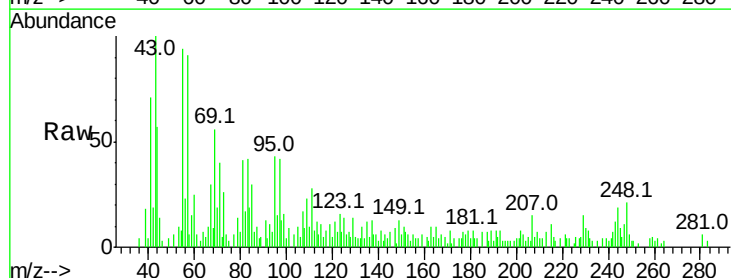
RT: 14.07 min Scan# 2038

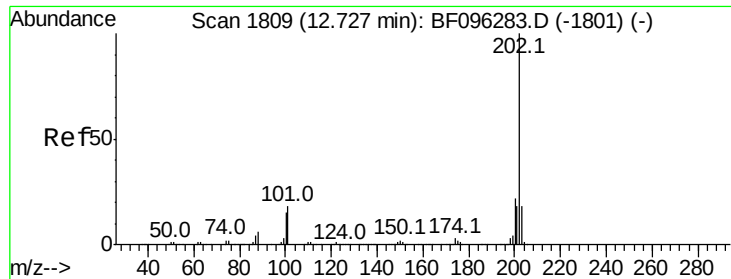
Delta R.T. 0.16 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Tgt Ion:	240	Resp:	370
Ion Ratio	Lower	Upper	
240	100		
120	177.6	5.8	8.8#
236	0.0	20.5	30.7#





#77

Pvrene

Concen: 7622.02 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.00 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Instrument :

BNA_F

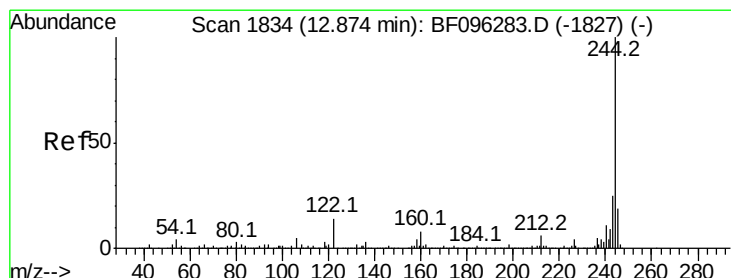
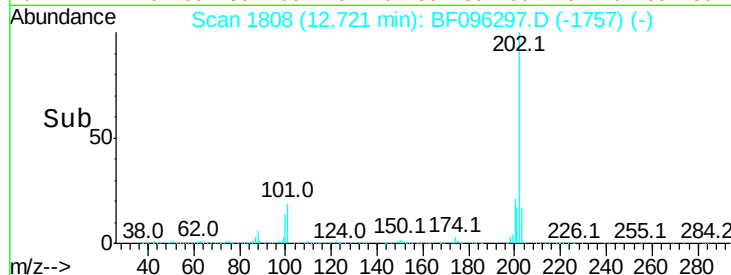
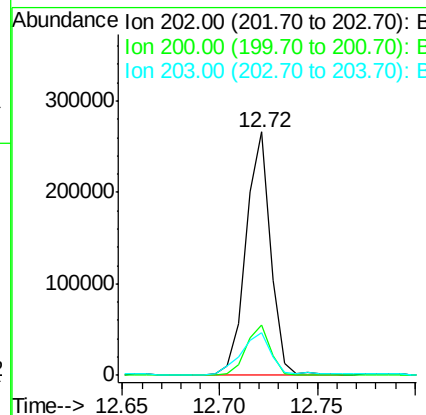
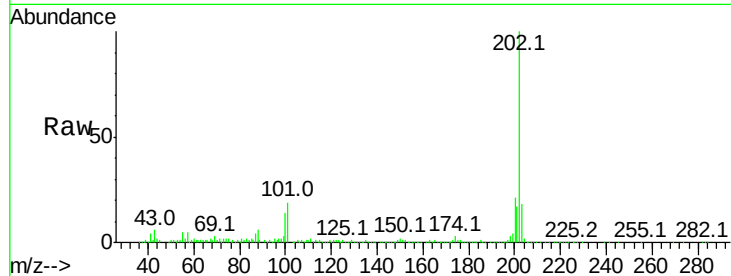
ClientSampleId :

23MC-WC-2(COMP)

Tot Ion:	202	Resp:	231766
Ion Ratio	Lower	Upper	
202	100		
200	20.6	17.6	26.4
203	17.7	14.4	21.6

Manual Integrations
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#78

Terphenyl-d14

Concen: 51208.36 ng

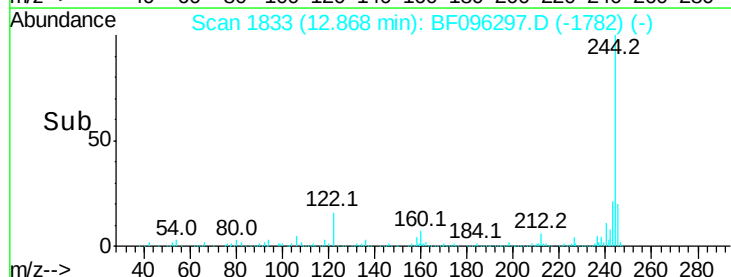
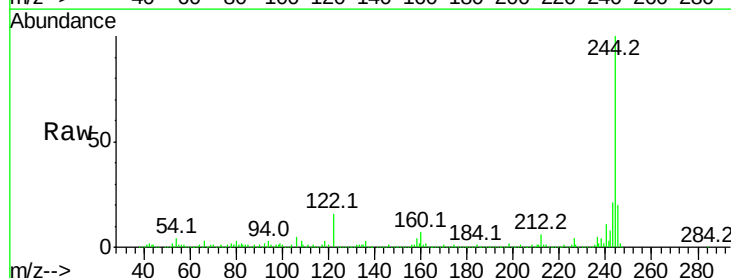
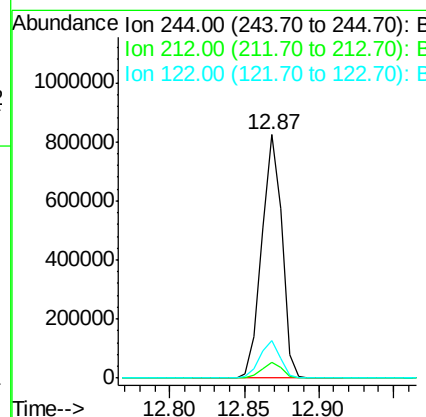
RT: 12.87 min Scan# 1833

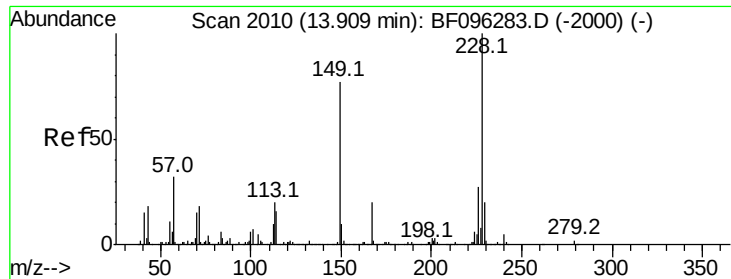
Delta R.T. -0.00 min

Lab File: BF096297.D

Acq: 29 Jun 2017 17:49

Tgt Ion:	244	Resp:	759316
Ion Ratio	Lower	Upper	
244	100		
212	6.3	6.0	9.0
122	15.6	10.3	15.5#





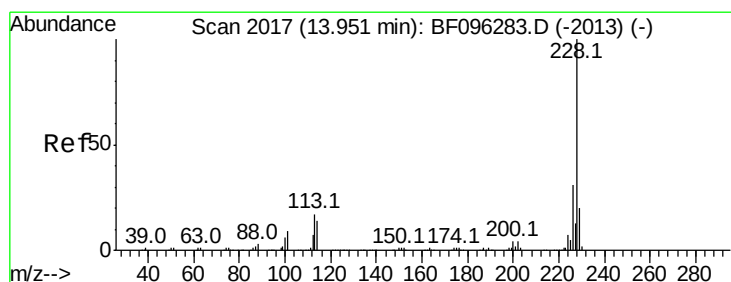
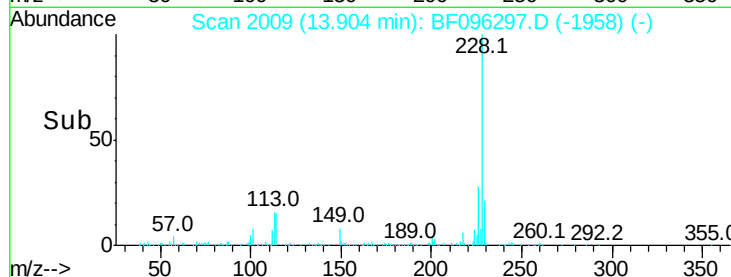
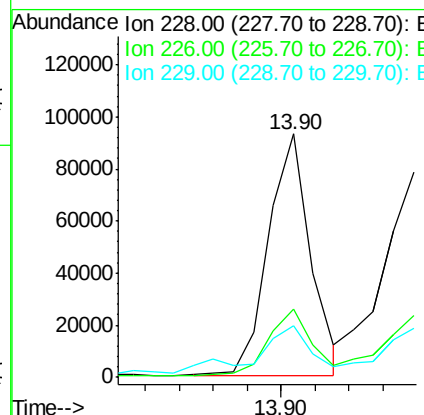
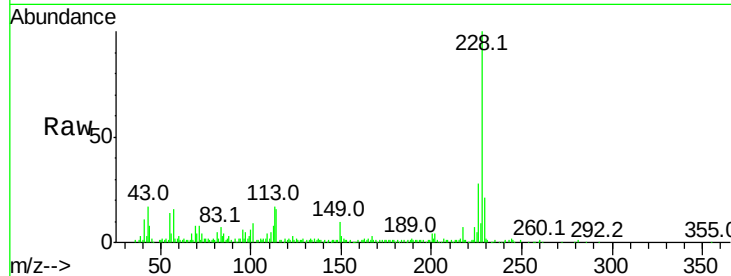
#80
Benzo(a)anthracene
Concen: 3590.38 ng m
RT: 13.90 min Scan# 2009
Delta R.T. -0.00 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	21.2	16.3	24.5

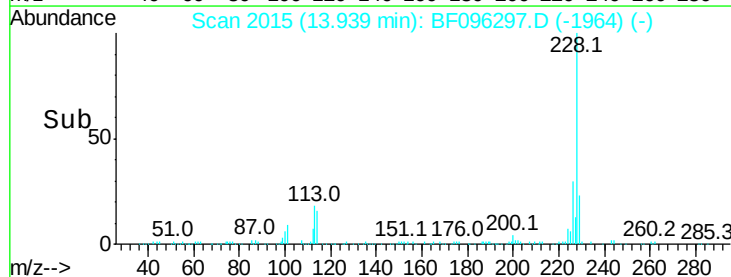
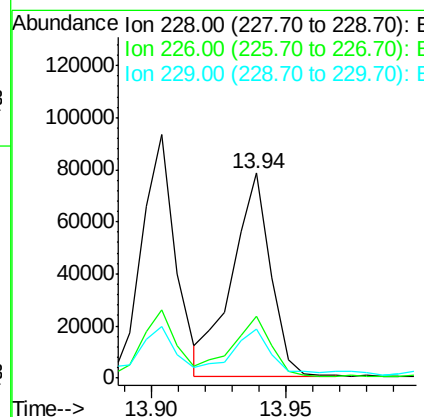
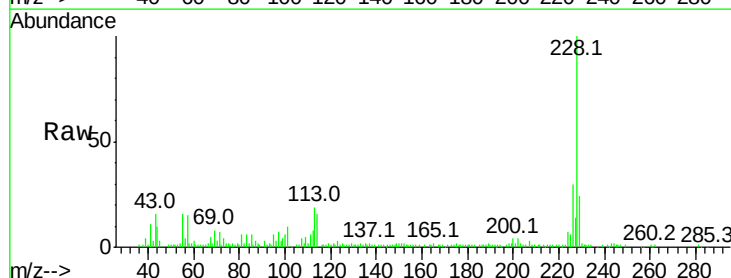
Manual Integrations
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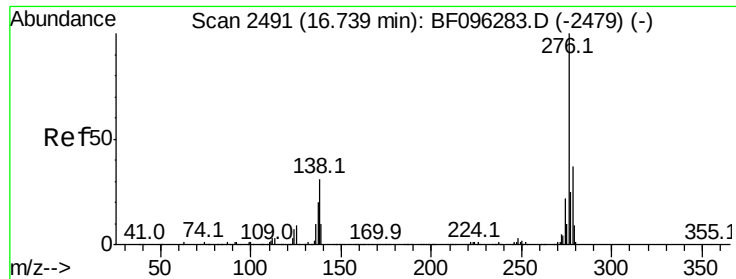
mohammad
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#82
Chrysene
Concen: 3364.21 ng m
RT: 13.94 min Scan# 2015
Delta R.T. -0.00 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.9	37.3
229	23.8	15.8	23.6#





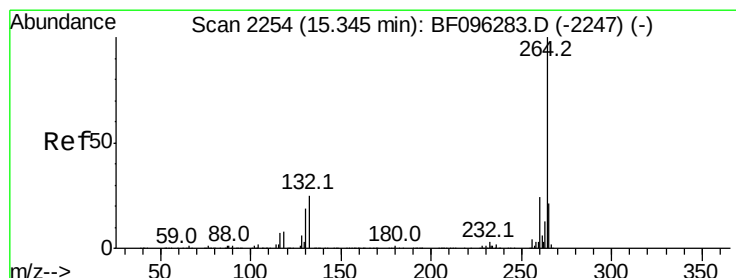
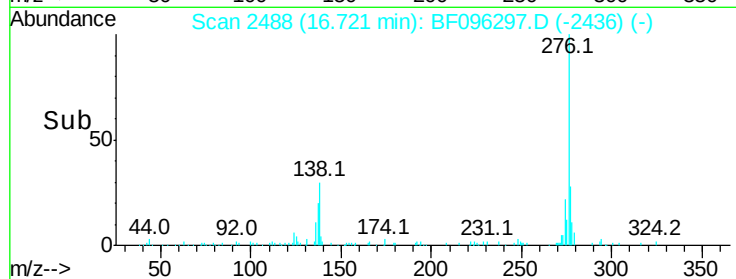
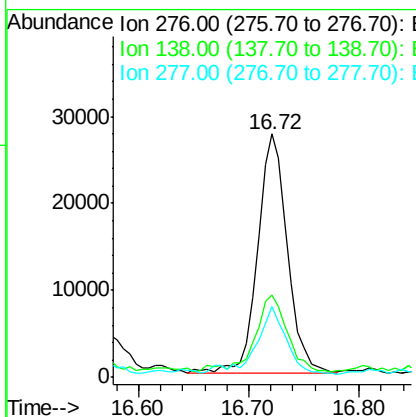
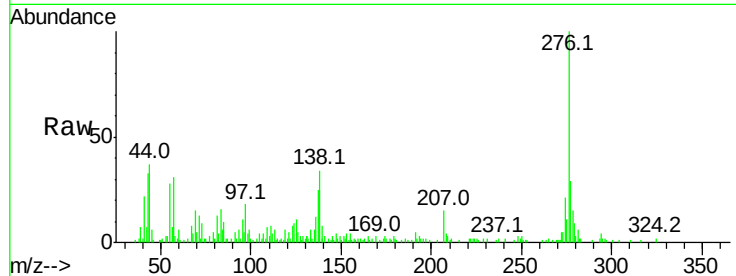
#85
Indeno(1,2,3-cd)pyrene
Concen: 2673.81 ng
RT: 16.72 min Scan# 2488
Delta R.T. 0.01 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
276	100		
138	35.3	27.8	41.6
277	26.6	20.2	30.4

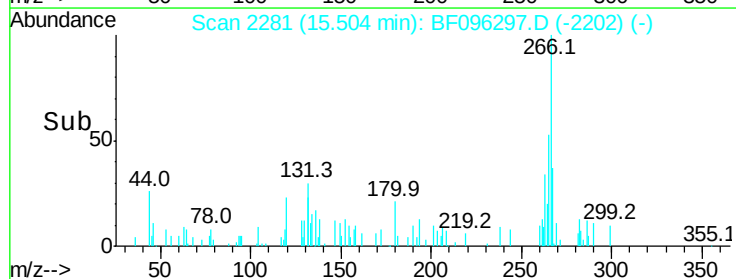
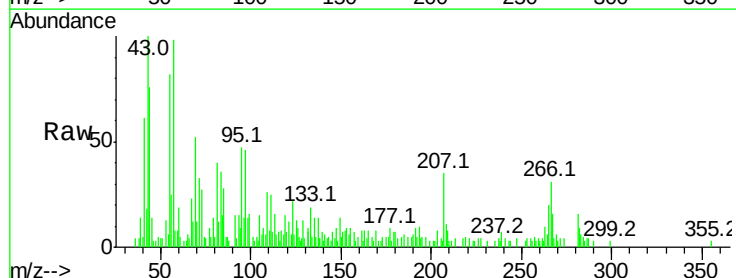
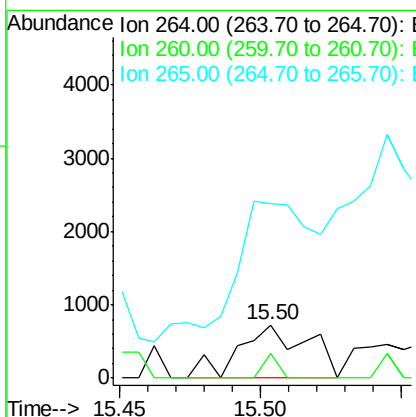
Manual Integrations
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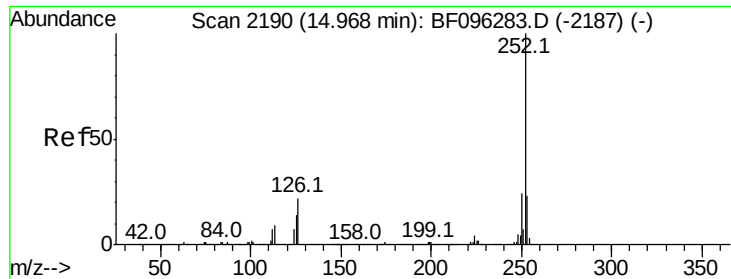
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.16 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	47.6	19.5	29.3#
265	327.4	17.2	25.8#





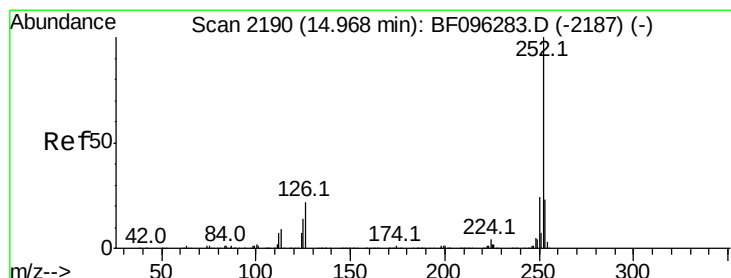
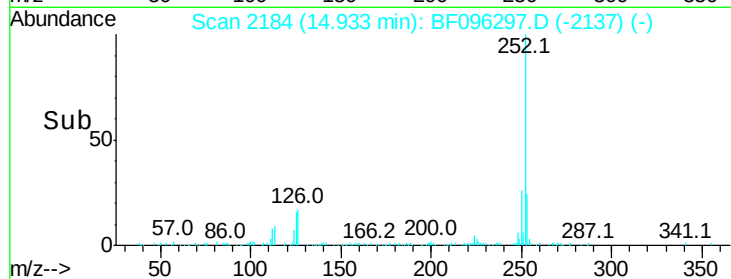
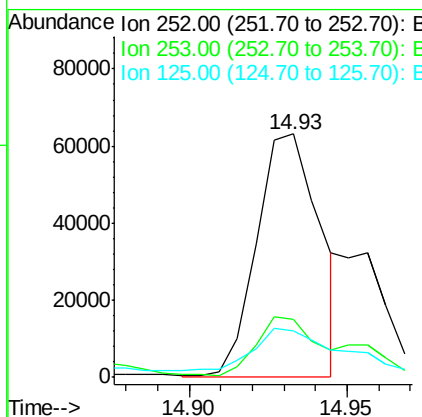
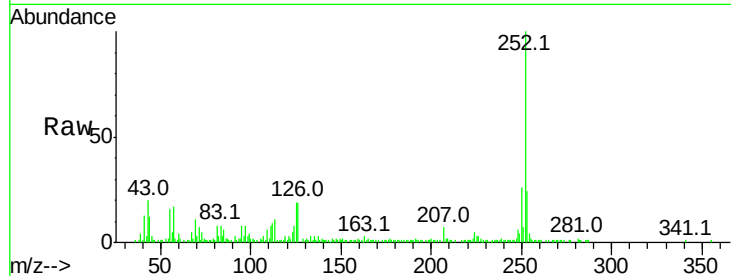
#87
Benzo(b)fluoranthene
Concen: 1080.38 ng m
RT: 14.93 min Scan# 2184
Delta R.T. -0.02 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	19.0	9.8	14.8

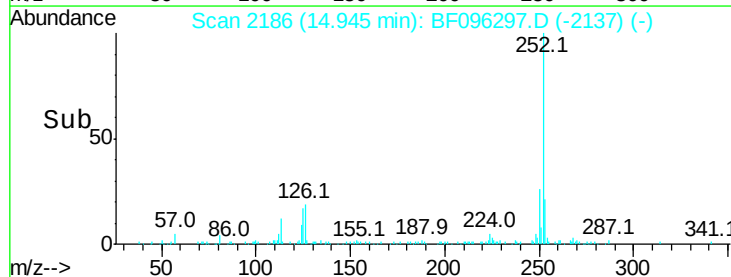
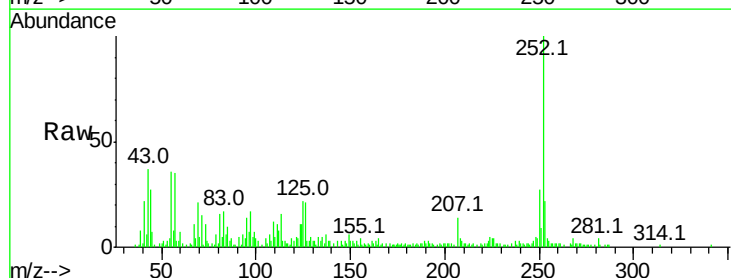
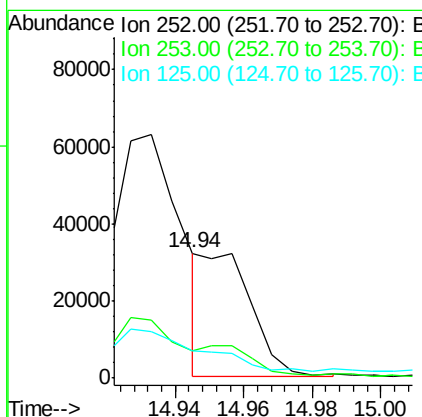
Manual Integrations
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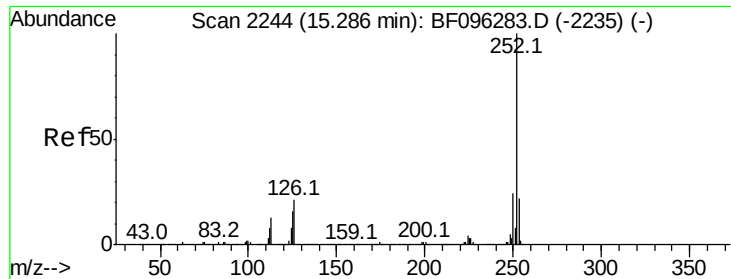
mohammad
6/30/2017 2:51:57 PM



#88
Benzo(k)fluoranthene
Concen: 422.93 ng m
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.4	27.6
125	22.1	13.1	19.7





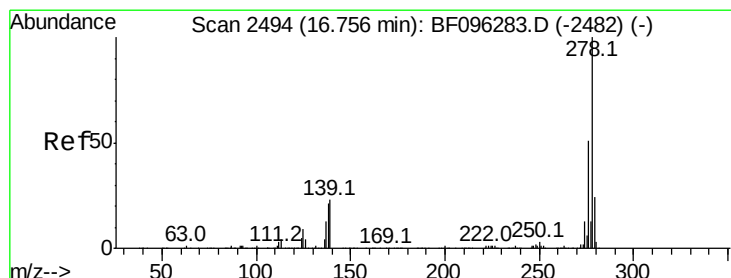
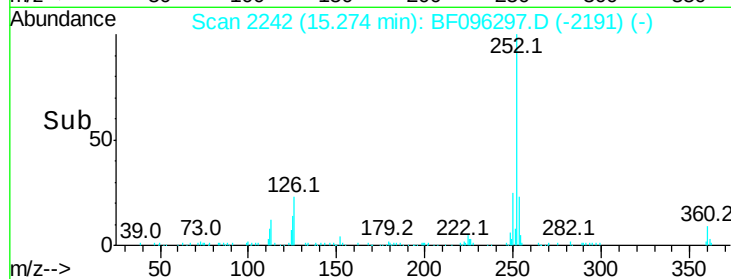
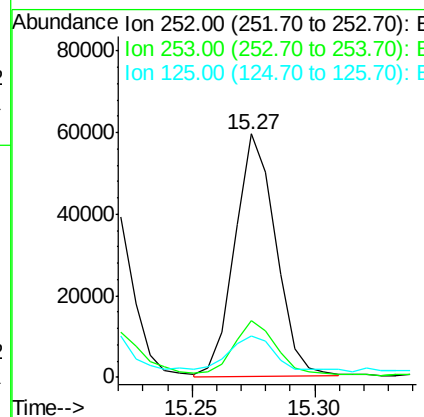
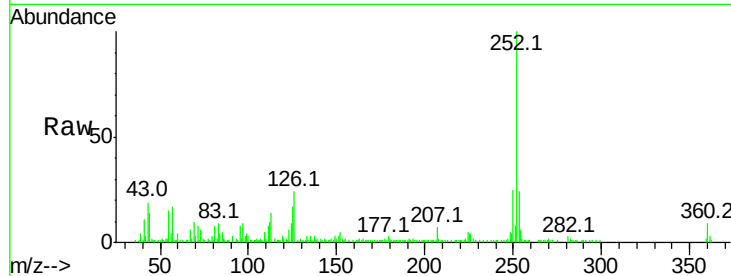
#89
Benzo(a)pyrene
Concen: 961.52 ng m
RT: 15.27 min Scan# 2242
Delta R.T. -0.00 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Instrument :
BNA_F
ClientSampleId :
23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	17.0	11.0	16.4

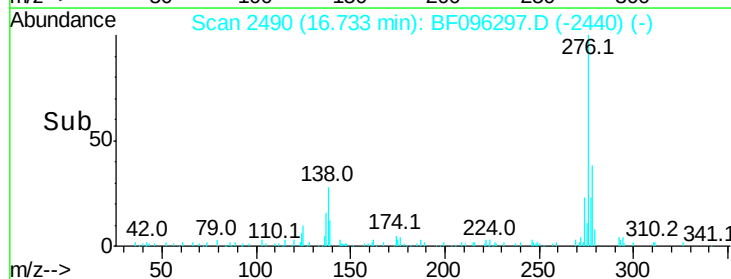
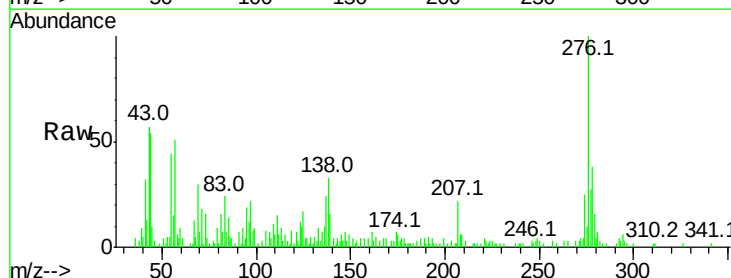
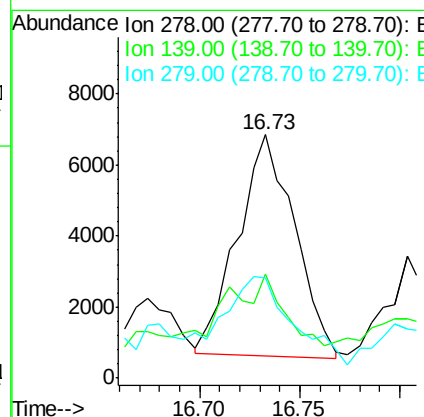
Manual Integrations
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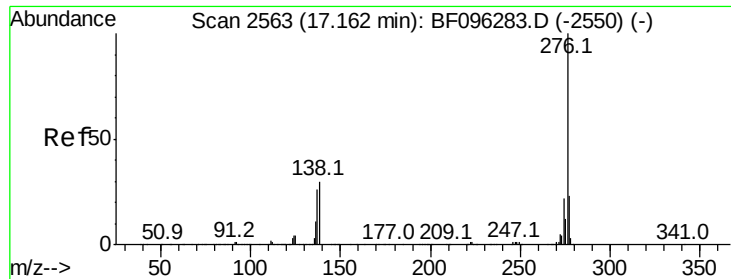
mohammad
6/30/2017 2:51:57 PM



#90
Dibenzo(a,h)anthracene
Concen: 220.88 ng m
RT: 16.73 min Scan# 2490
Delta R.T. -0.01 min
Lab File: BF096297.D
Acq: 29 Jun 2017 17:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	42.8	16.6	24.8
279	40.9	19.3	28.9





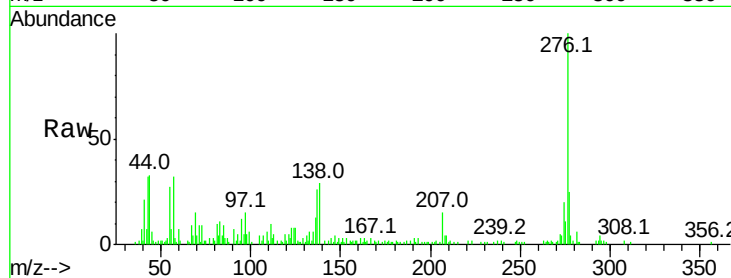
#91
 Benzo(a,h,i)perylene
 Concen: 992.15 ng
 RT: 17.14 min Scan# 2559
 Delta R.T. 0.01 min
 Lab File: BF096297.D
 Acq: 29 Jun 2017 17:49

Instrument :
 BNA_F
 ClientSampleId :
 23MC-WC-2(COMP)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.6	28.0
138	29.2	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 6/30/2017 2:51:57 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

