

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
 Data File : BF088937.D
 Acq On : 12 Jul 2016 23:56
 Operator : UM/SJ
 Sample : H3935-24
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C3-02

Manual Integrations

APPROVED
 SOHIL
 7/13/2016 9:26:27 AM

Quant Time: Jul 13 04:07:28 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	65157	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	233688	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	94270	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	143812	20.00	ng	-0.01
75) Chrysene-d12	13.84	240	124163	20.00	ng	-0.01
86) Perylene-d12	15.22	264	118143	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.31	112	484385	111.42	ng	0.02
7) Phenol-d6	6.36	99	683082	121.60	ng	0.01
23) Nitrobenzene-d5	7.27	82	408491	91.60	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	94022	107.41	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	659580	110.52	ng	0.00
78) Terphenyl-d14	12.80	244	334138	59.94	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.01	128	24649	2.14	ng	99
49) Dimethylphthalate	9.46	163	97681	14.54	ng	99
51) Acenaphthene	9.77	154	44803	7.50	ng	97
54) Dibenzofuran	9.94	168	25349	3.24	ng	# 88
57) Fluorene	10.28	166	31303	5.19	ng	100
70) Phenanthrene	11.24	178	300950	38.28	ng	98
71) Anthracene	11.29	178	85611	10.95	ng	98
72) Carbazole	11.45	167	44883	6.10	ng	98
74) Fluoranthene	12.42	202	400428	50.24	ng	99
77) Pyrene	12.65	202	365843	34.75	ng	99
80) Benzo(a)anthracene	13.83	228	243837	30.50	ng	97
82) Chrysene	13.87	228	188690m	23.85	ng	
85) Indeno(1,2,3-cd)pyrene	16.50	276	80924	13.30	ng	# 100
87) Benzo(b)fluoranthene	14.85	252	284780m	38.43	ng	
88) Benzo(k)fluoranthene	14.86	252	52146m	8.08	ng	
89) Benzo(a)pyrene	15.17	252	151608m	24.16	ng	
90) Dibenzo(a,h)anthracene	16.51	278	22301m	4.26	ng	
91) Benzo(g,h,i)perylene	16.89	276	70607	13.02	ng	96

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

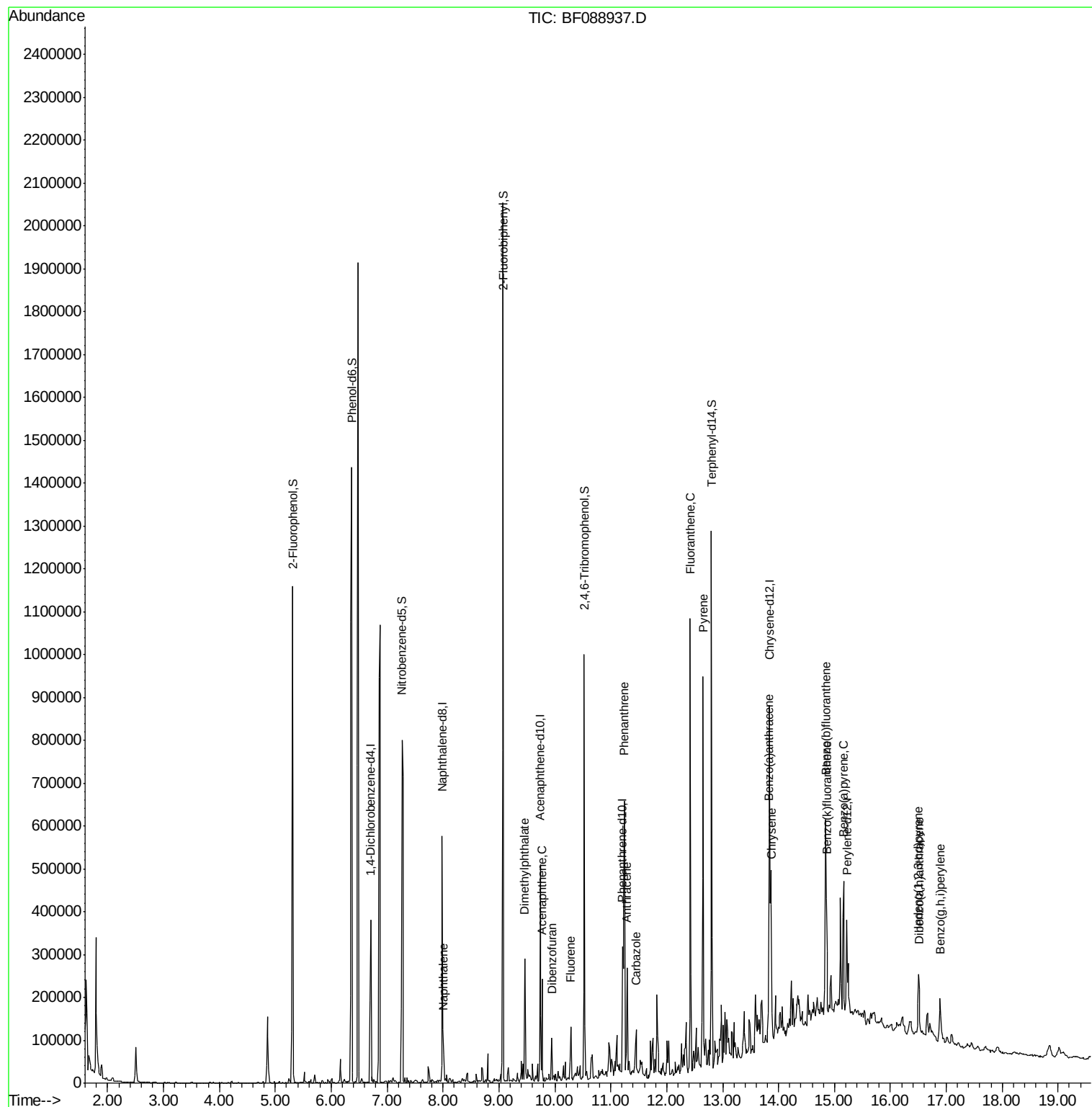
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071216\
Data File : BF088937.D
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ALS Vial : 16 Sample Multiplier: 1

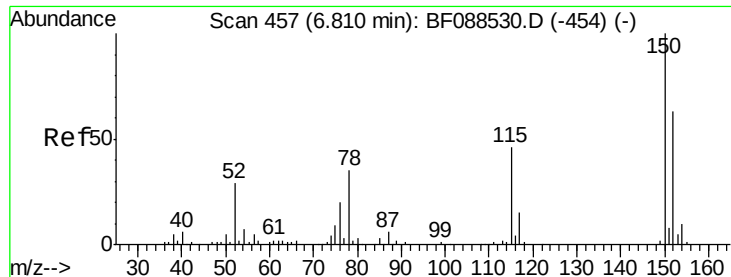
Instrument :
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Quant Time: Jul 13 04:07:28 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

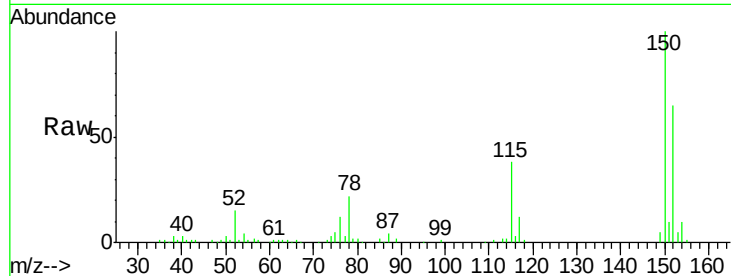
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.71 min Scan# 448
Delta R.T. 0.00 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampled :
C3-02

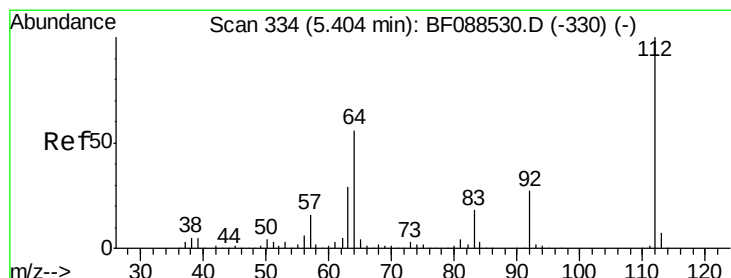
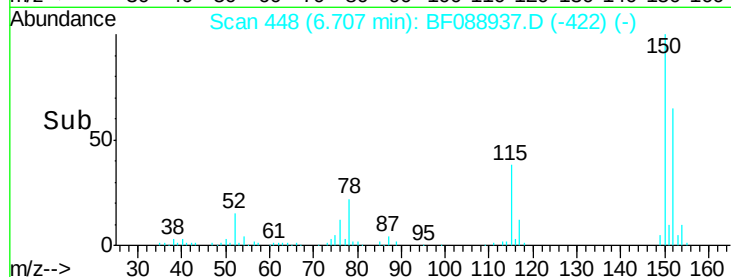
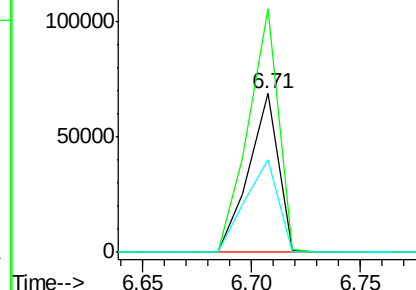
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	123.8	185.6
115	58.5	39.6	59.4

Manual Integrations

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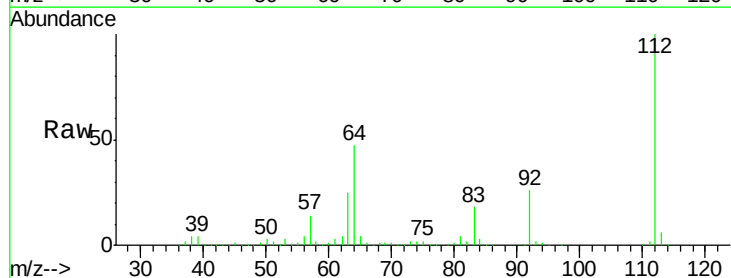
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



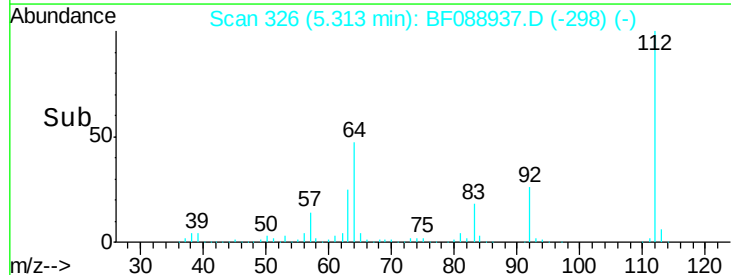
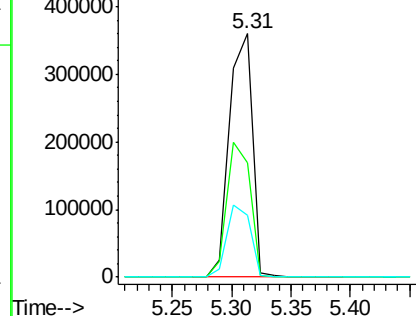
#5

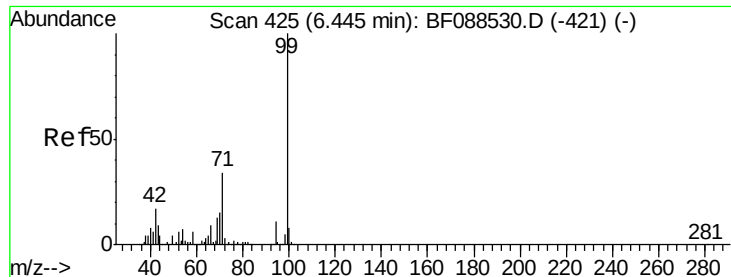
2-Fluorophenol
Concen: 111.42 ng
RT: 5.31 min Scan# 326
Delta R.T. 0.02 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	47.0	42.2	63.2
63	25.2	21.8	32.8



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: 121.60 ng

RT: 6.36 min Scan# 418

Delta R.T. 0.01 min

Lab File: BF088937.D

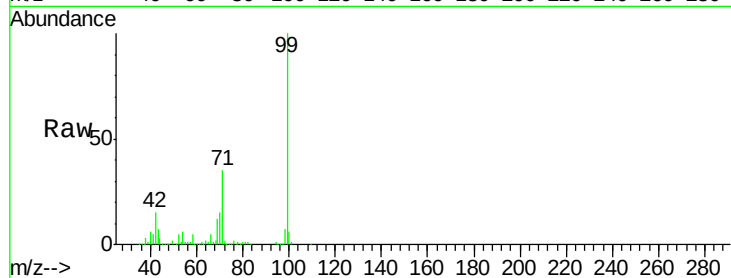
Acq: 12 Jul 2016 23:56

Instrument :

BNA_F

ClientSampleId :

C3-02

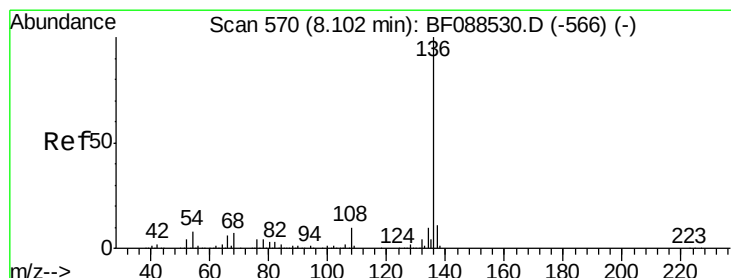
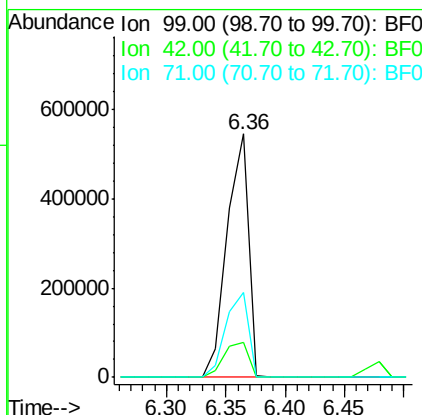
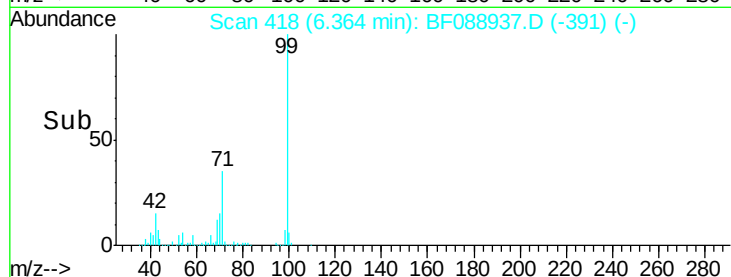


Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		683082		
42	14.6	12.2	18.2		
71	35.1	23.4	35.0		

Manual Integrations

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#21

Naphthalene-d8

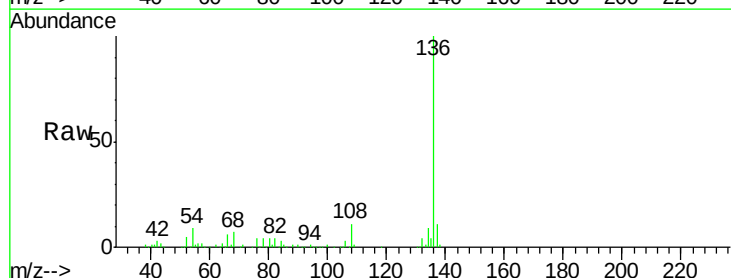
Concen: 20.00 ng

RT: 7.99 min Scan# 560

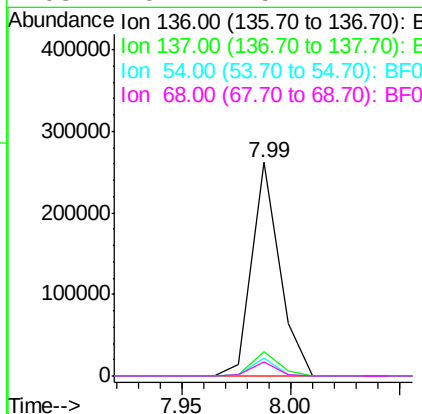
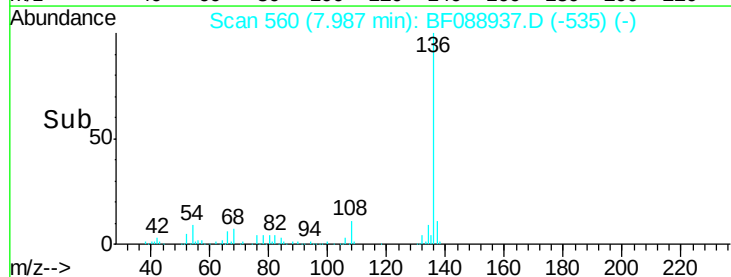
Delta R.T. -0.01 min

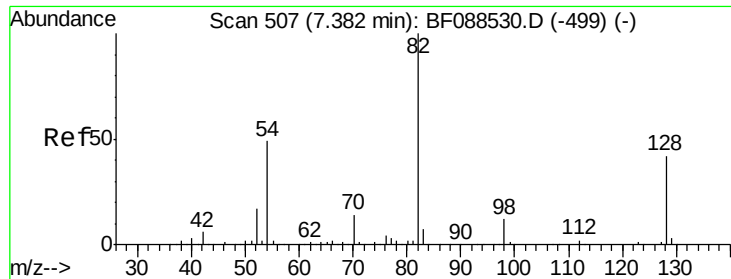
Lab File: BF088937.D

Acq: 12 Jul 2016 23:56



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		233688		
137	11.2	9.1	13.7		
54	8.6	6.6	10.0		
68	6.7	5.1	7.7		





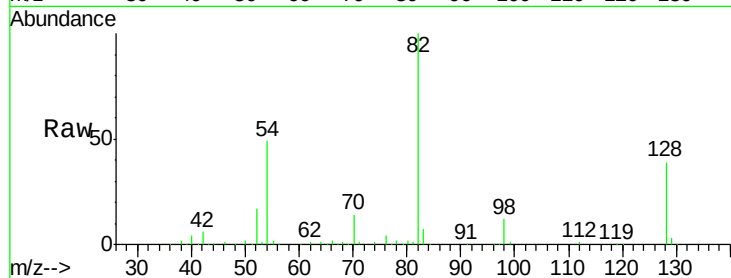
#23
Nitrobenzene-d5
Concen: 91.60 ng
RT: 7.27 min Scan# 497
Delta R.T. -0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampled :
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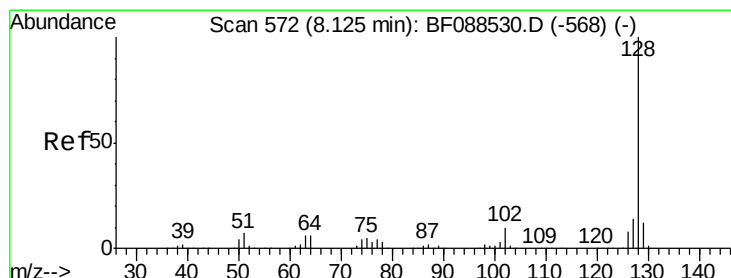
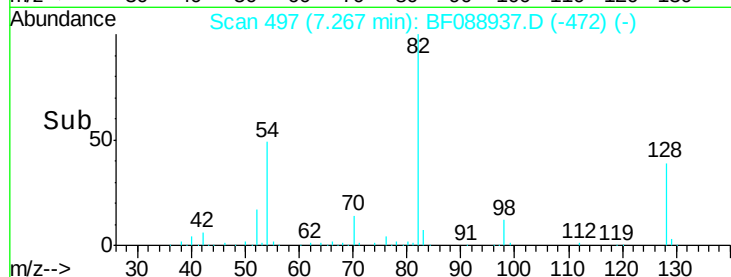
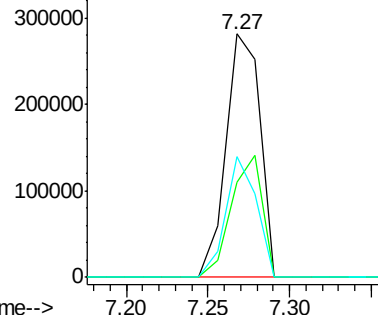
Tot Ion	82	Resp	408491
Ion Ratio	100	Lower	Upper
82	100		
128	39.2	35.9	53.9
54	49.4	40.9	61.3

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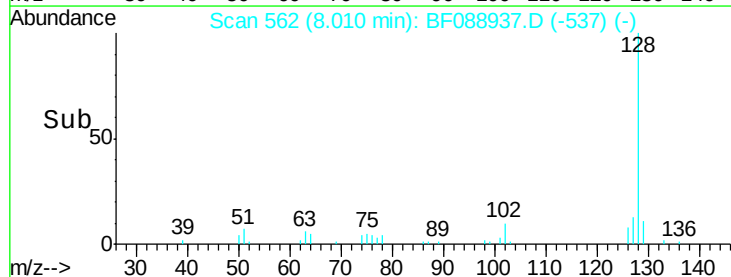
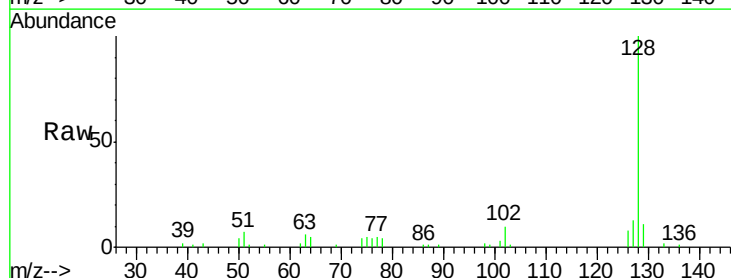
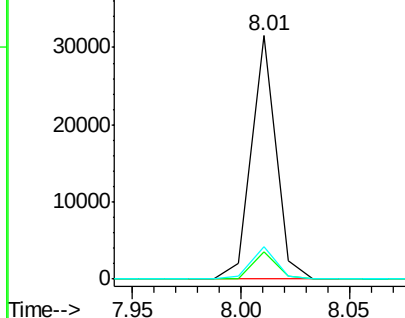
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

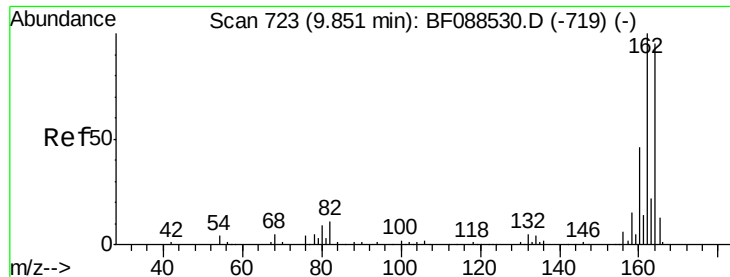


#31
Naphthalene
Concen: 2.14 ng
RT: 8.01 min Scan# 562
Delta R.T. -0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	128	Resp	24649
Ion Ratio	100	Lower	Upper
128	100		
129	11.0	9.4	14.2
127	13.2	10.9	16.3

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





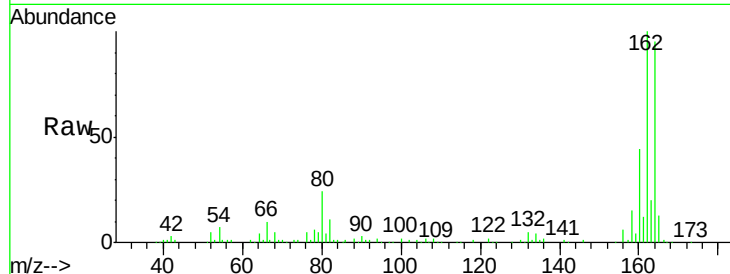
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.74 min Scan# 713
Delta R.T. -0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampled :
C3-02

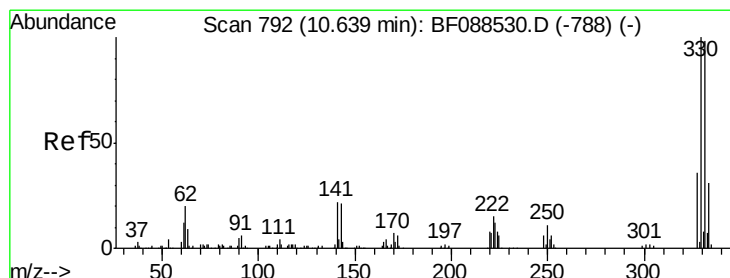
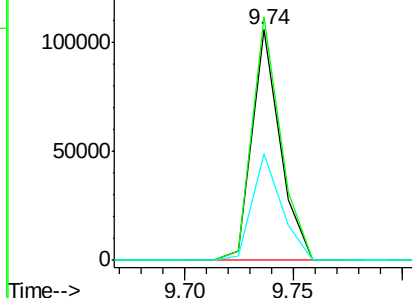
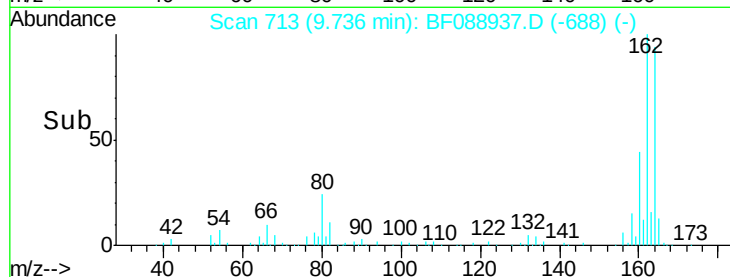
Tot Ion:164 Resp: 94270
Ion Ratio Lower Upper
164 100
162 105.6 85.4 128.2
160 46.4 39.5 59.3

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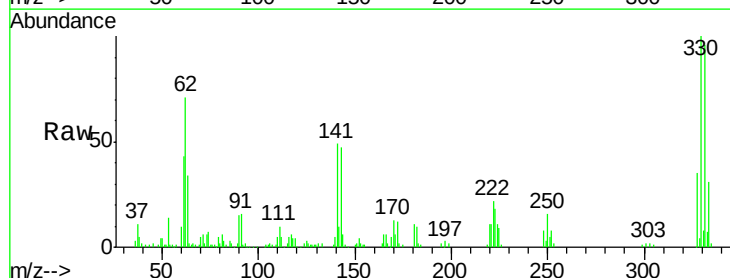


Abundance Ion 164.00 (163.70 to 164.70): E
150000 Ion 162.00 (161.70 to 162.70): E
100000 Ion 160.00 (159.70 to 160.70): E

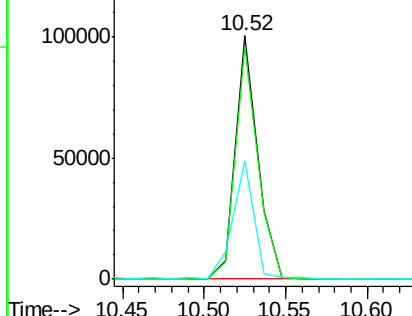
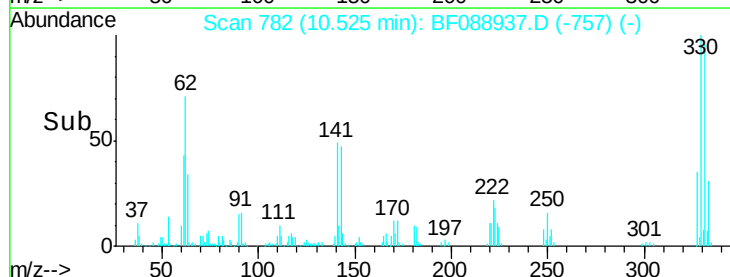


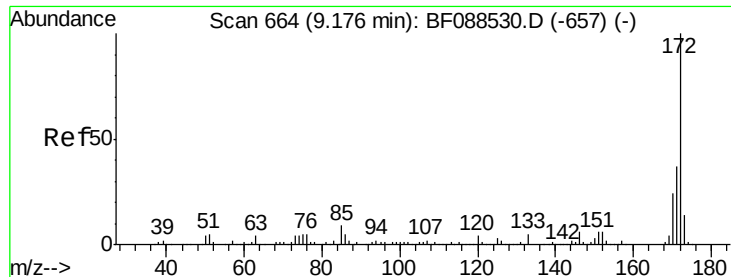
#41
2,4,6-Tribromophenol
Concen: 107.41 ng
RT: 10.52 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion:330 Resp: 94022
Ion Ratio Lower Upper
330 100
332 96.0 0.0 0.0#
141 48.1 0.0 0.0#



Abundance Ion 329.80 (329.50 to 330.50): E
100000 Ion 331.80 (331.50 to 332.50): E
50000 Ion 141.00 (140.70 to 141.70): E





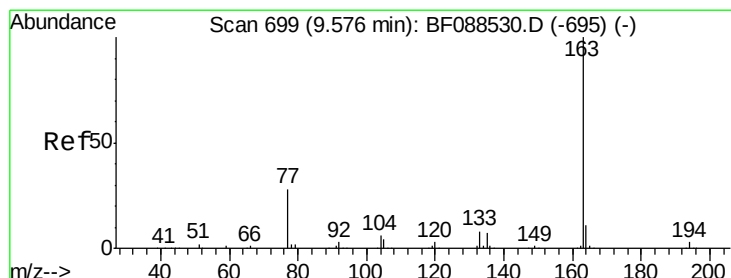
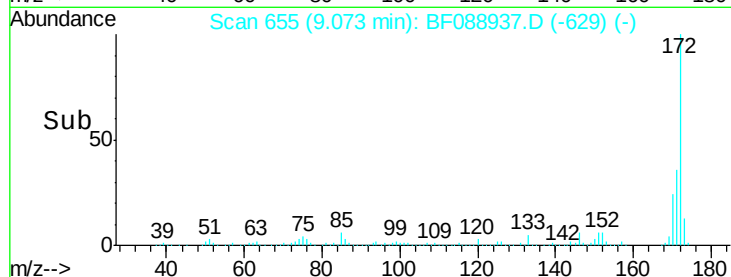
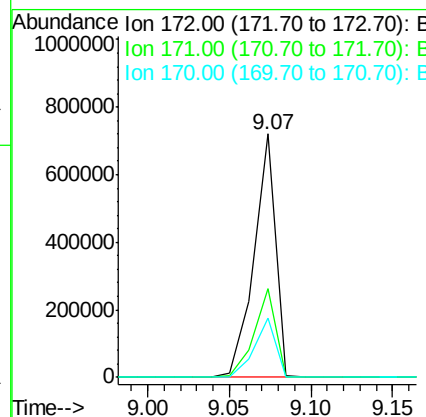
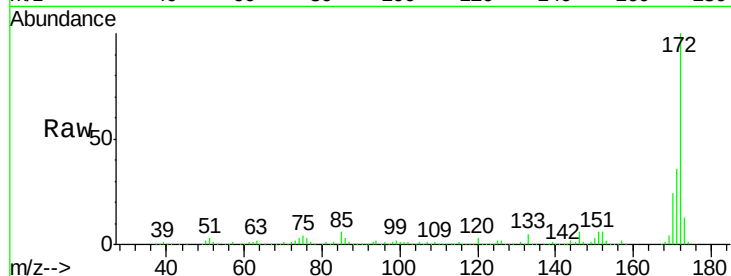
#44
2-Fluorobiphenyl
Concen: 110.52 ng
RT: 9.07 min Scan# 655
Delta R.T. 0.00 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampleId :
C3-02

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.6	43.0
170	24.1	19.2	28.8

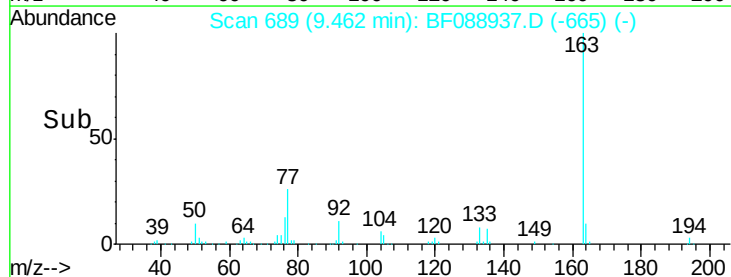
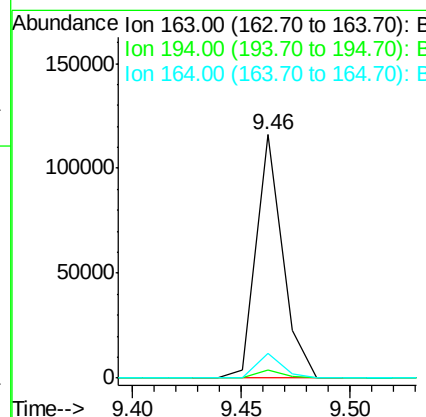
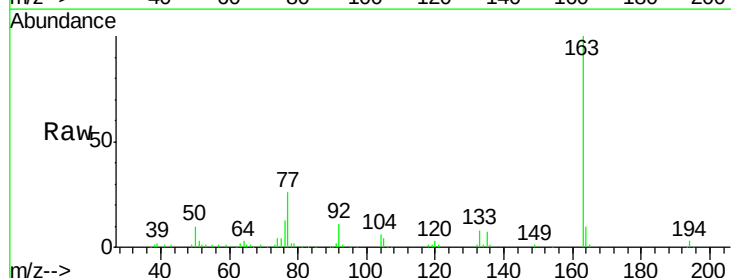
Manual Integrations

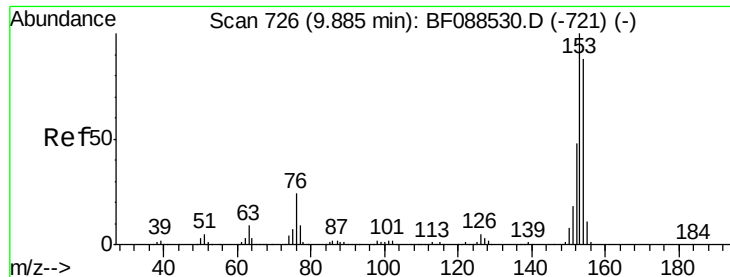
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#49
Dimethylphthalate
Concen: 14.54 ng
RT: 9.46 min Scan# 689
Delta R.T. -0.02 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.8	4.2
164	10.1	8.3	12.5





#51

Acenaphthene

Concen: 7.50 ng

RT: 9.77 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

Instrument :

BNA_F

ClientSampleId :

C3-02

Tot Ion:154 Resp: 44803

Ion Ratio Lower Upper

154 100

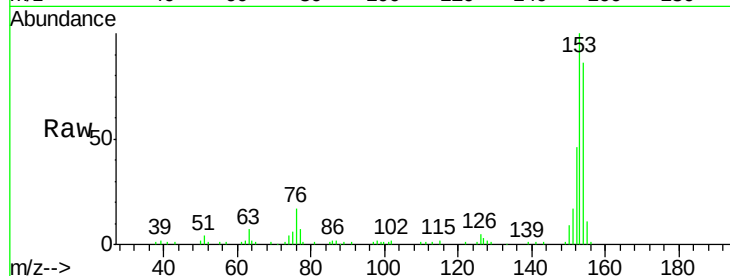
153 116.0 89.5 134.3

152 53.3 42.7 64.1

Manual Integrations

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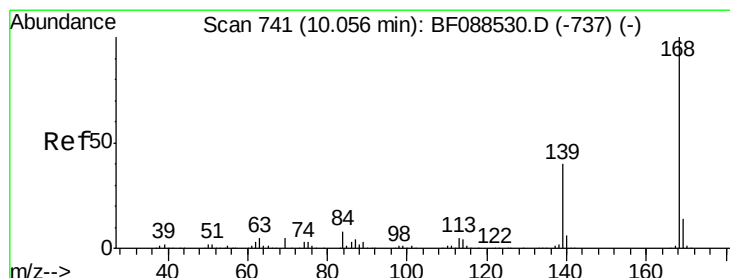
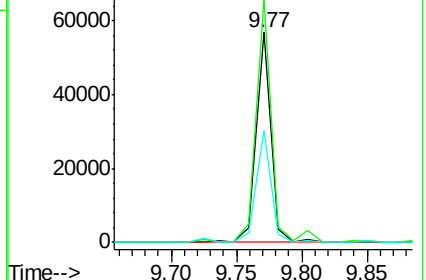
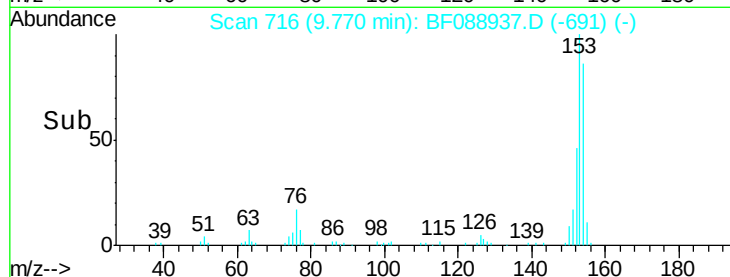
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.24 ng

RT: 9.94 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

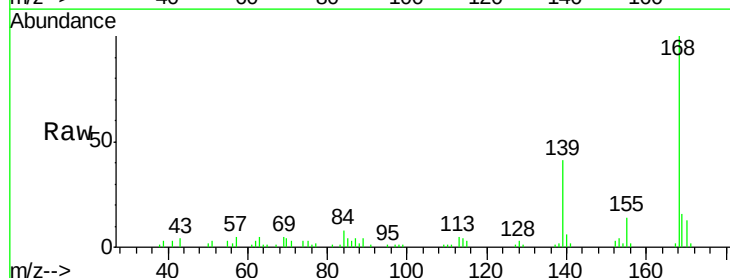
Tgt Ion:168 Resp: 25349

Ion Ratio Lower Upper

168 100

139 41.2 26.4 39.6#

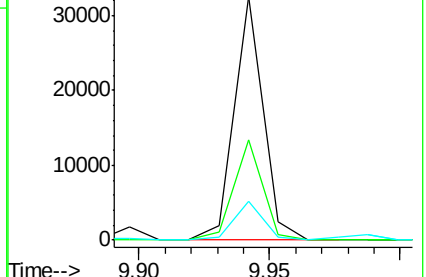
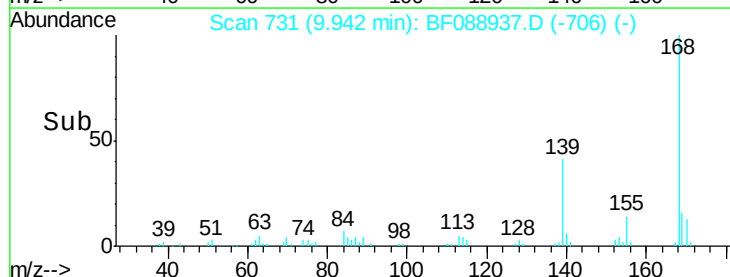
169 15.7 10.4 15.6#

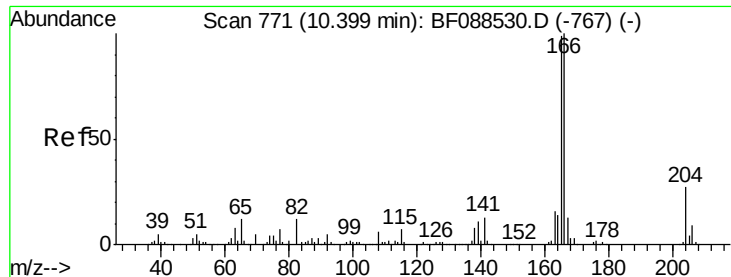


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





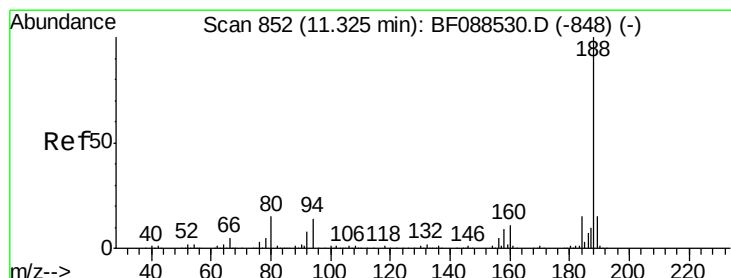
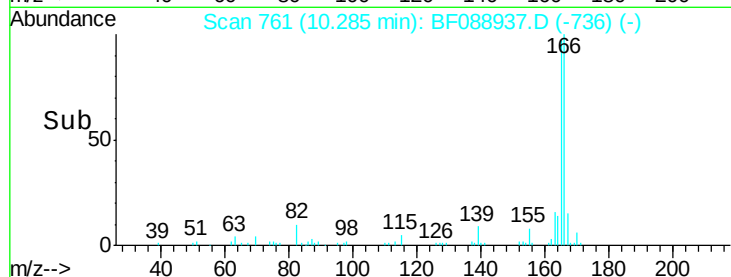
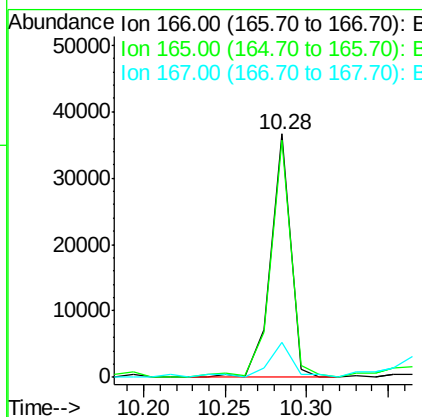
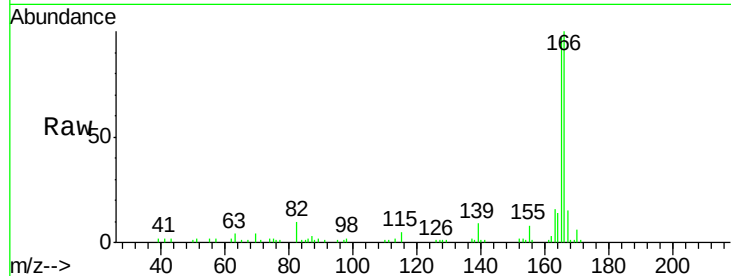
#57
 Fluorene
 Concen: 5.19 ng
 RT: 10.28 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: BF088937.D
 Acq: 12 Jul 2016 23:56

Instrument :
 BNA_F
 ClientSampled :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		31303		
165	97.3	77.8	116.8		
167	14.6	11.2	16.8		

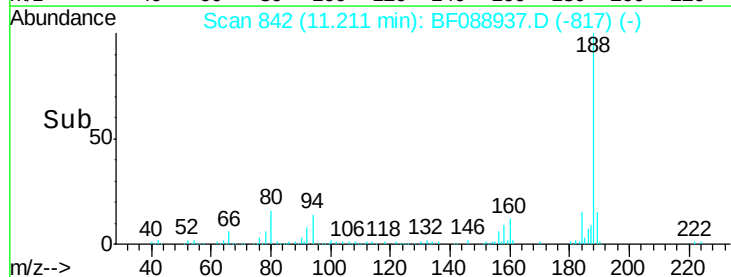
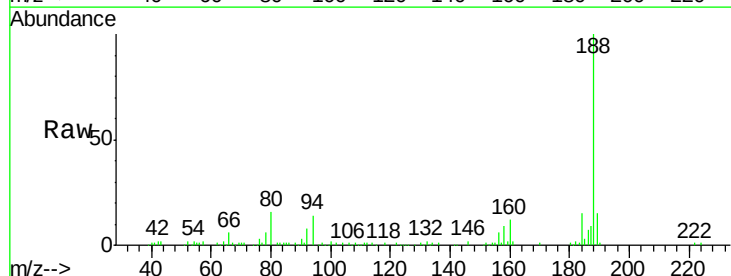
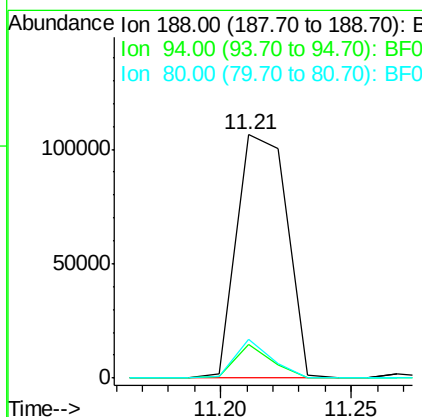
Manual Integrations

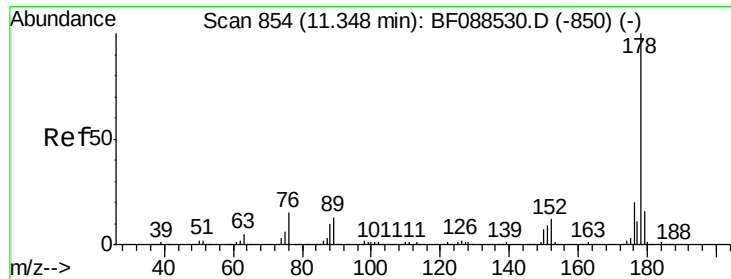
SOHIL
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#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.21 min Scan# 842
 Delta R.T. -0.01 min
 Lab File: BF088937.D
 Acq: 12 Jul 2016 23:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		143812		
94	13.6	9.0	13.6#		
80	16.0	10.0	15.0#		





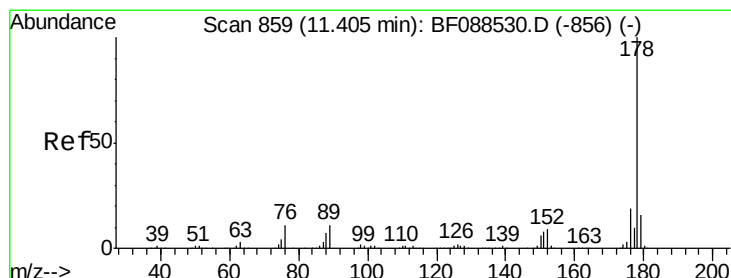
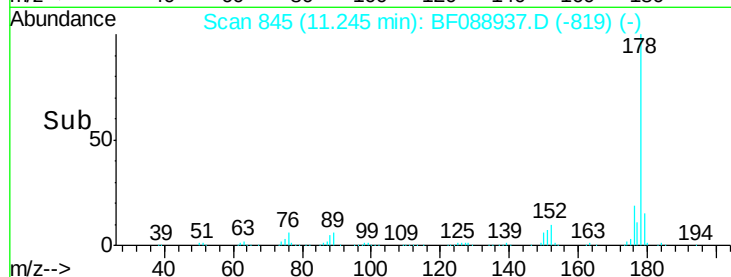
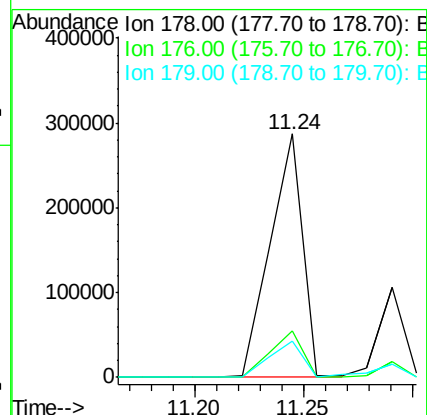
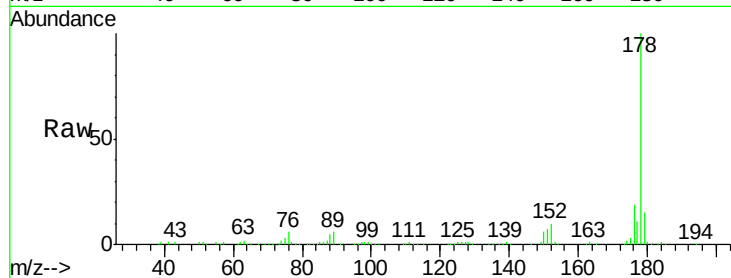
#70
Phenanthrene
Concen: 38.28 ng
RT: 11.24 min Scan# 845
Delta R.T. 0.00 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampleId :
C3-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.6
179	15.0	13.0	19.4

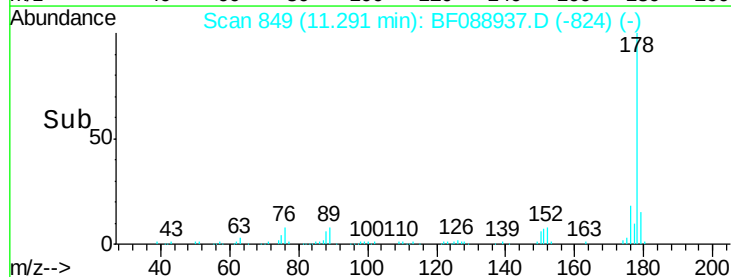
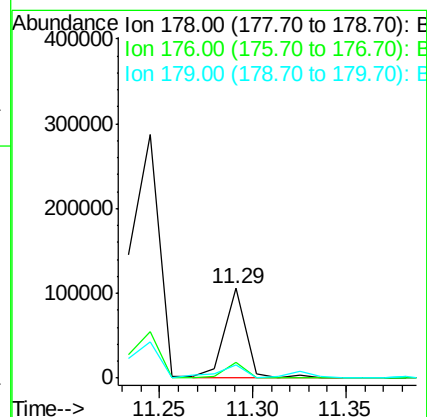
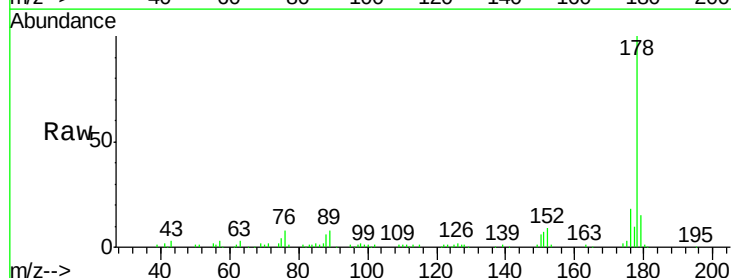
Manual Integrations

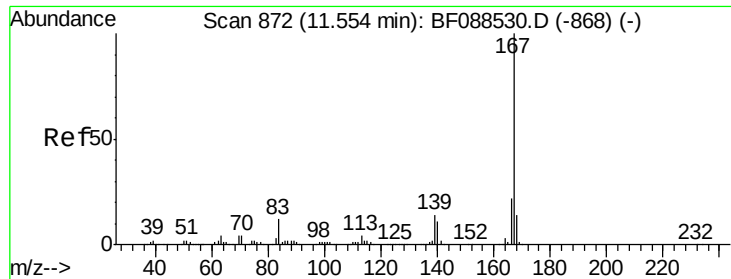
SOHIL
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#71
Anthracene
Concen: 10.95 ng
RT: 11.29 min Scan# 849
Delta R.T. -0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.6	23.4
179	15.3	12.8	19.2





#72

Carbazole

Concen: 6.10 ng

RT: 11.45 min Scan# 863

Delta R.T. 0.00 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

Instrument :

BNA_F

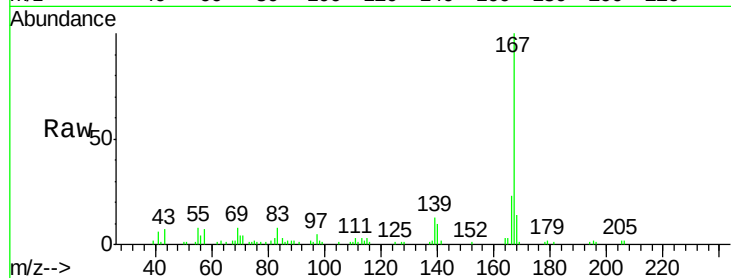
ClientSampled :

C3-02

Manual Integrations

SOHIL

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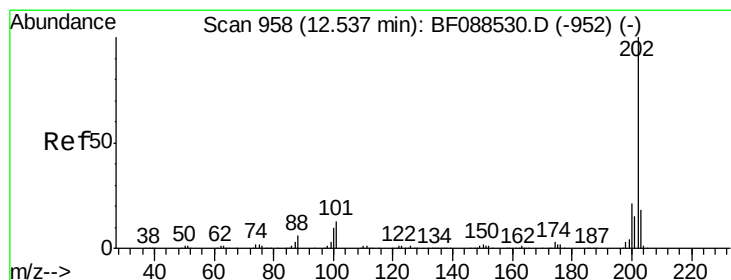
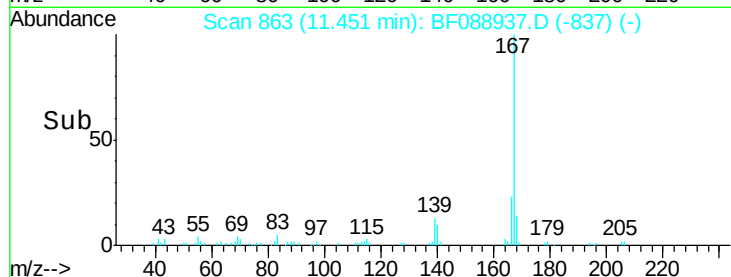
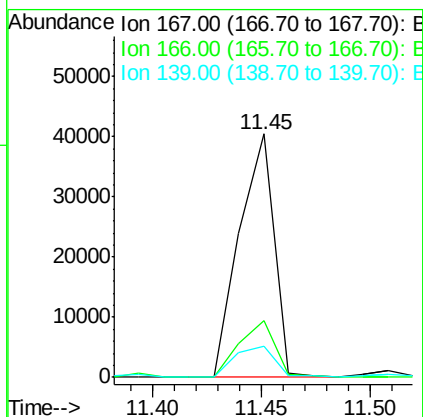
Tot Ion:167 Resp: 44883

Ion Ratio Lower Upper

167 100

166 23.2 17.8 26.6

139 12.8 11.2 16.8



#74

Fluoranthene

Concen: 50.24 ng

RT: 12.42 min Scan# 948

Delta R.T. 0.00 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

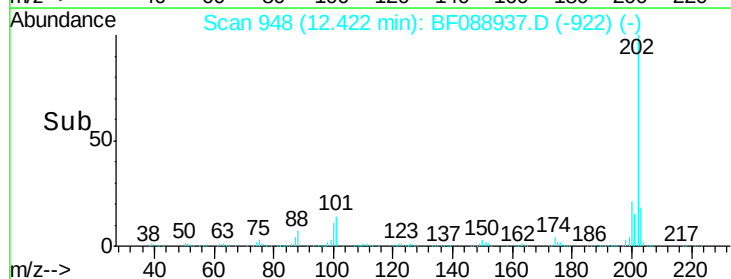
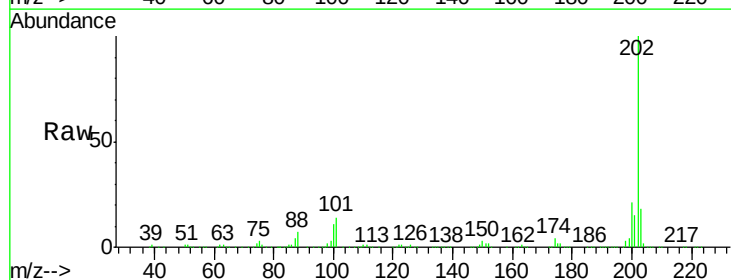
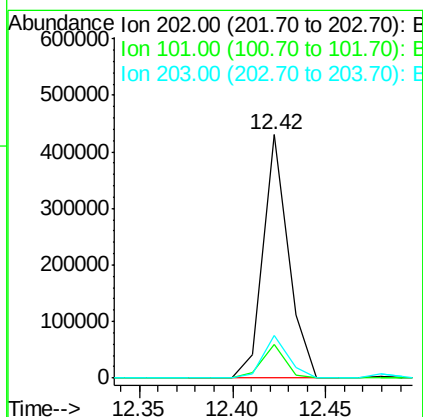
Tgt Ion:202 Resp: 400428

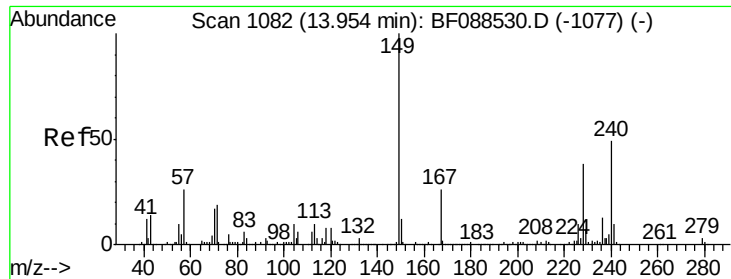
Ion Ratio Lower Upper

202 100

101 14.0 0.0 33.1

203 17.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

Instrument :

BNA_F

ClientSampleId :

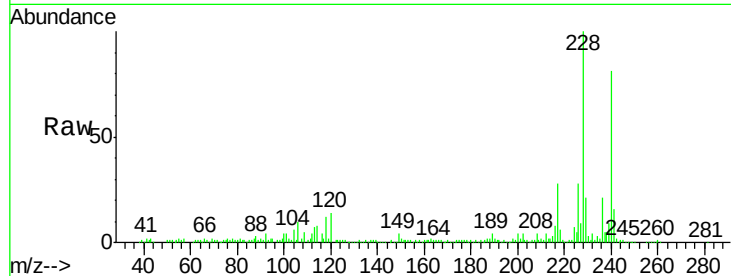
C3-02

Tot Ion	Ratio	Lower	Upper
240	100		
120	16.8	6.8	10.2
236	25.5	20.2	30.2

Manual Integrations

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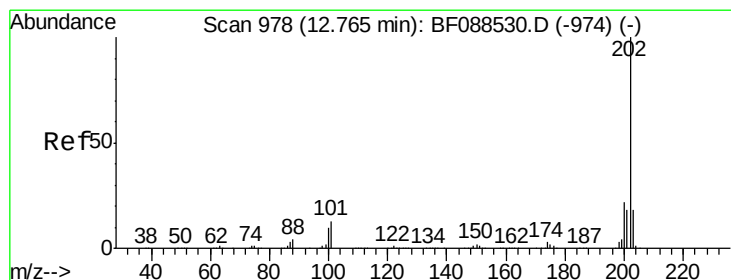
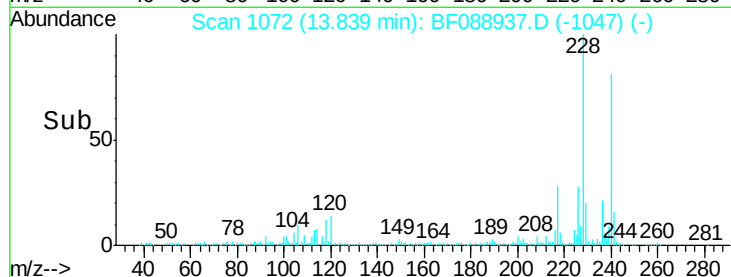
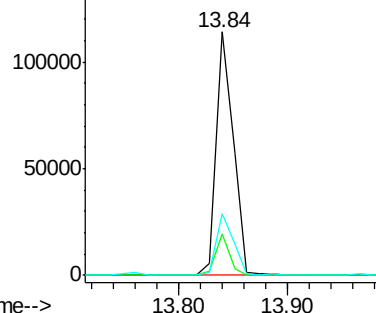


Abundance

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: 34.75 ng

RT: 12.65 min Scan# 968

Delta R.T. 0.00 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

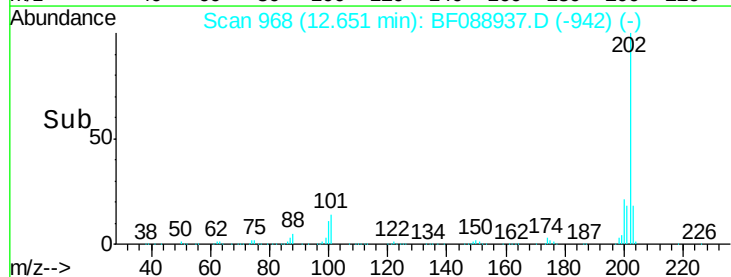
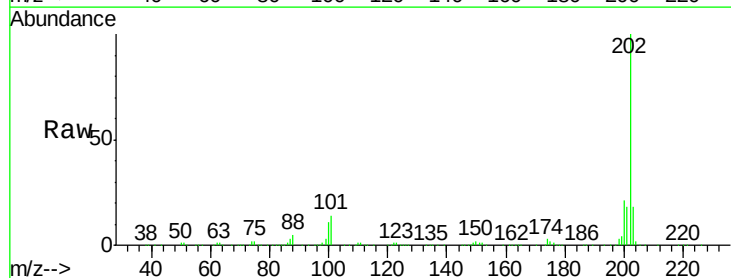
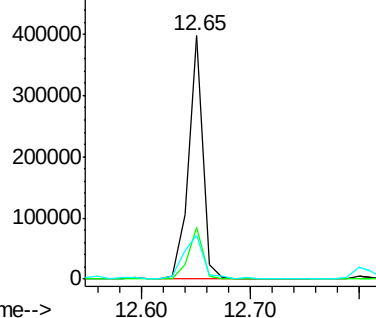
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.8	14.5	21.7

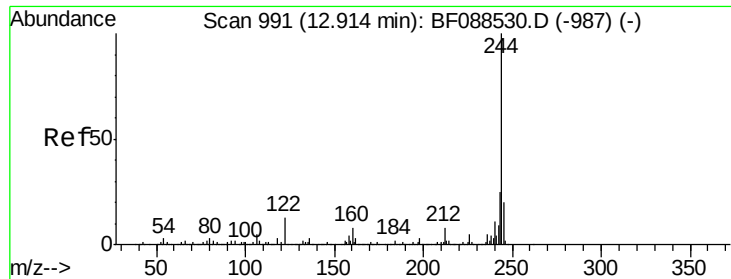
Abundance

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: 59.94 ng

RT: 12.80 min Scan# 981

Delta R.T. 0.00 min

Lab File: BF088937.D

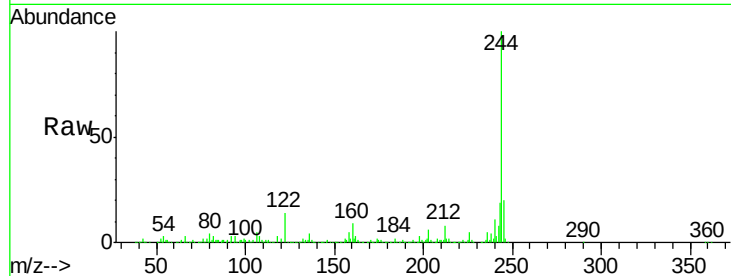
Acq: 12 Jul 2016 23:56

Instrument :

BNA_F

ClientSampled :

C3-02

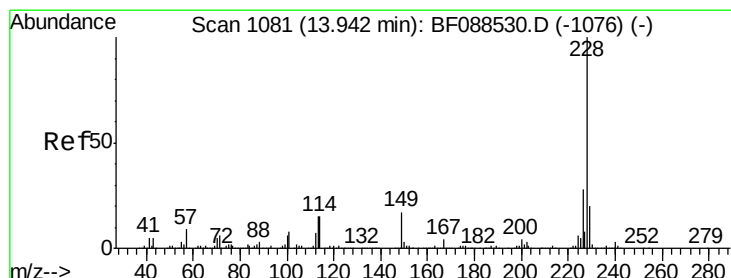
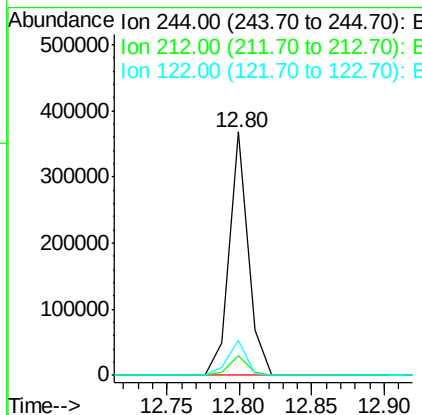
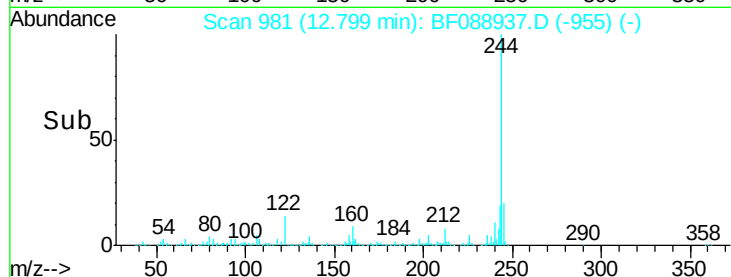


Tot Ion:	244	Resp:	334138
Ion Ratio	Lower	Upper	
244	100		
212	7.8	6.0	9.0
122	14.5	11.2	16.8

Manual Integrations

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#80

Benzo(a)anthracene

Concen: 30.50 ng

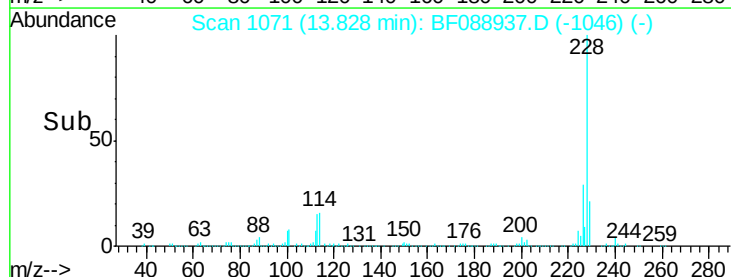
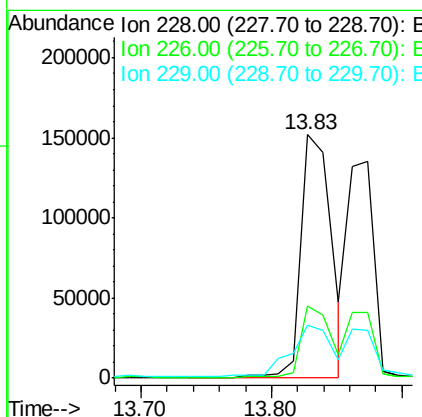
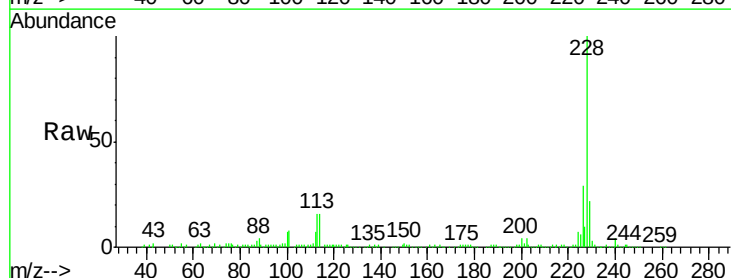
RT: 13.83 min Scan# 1071

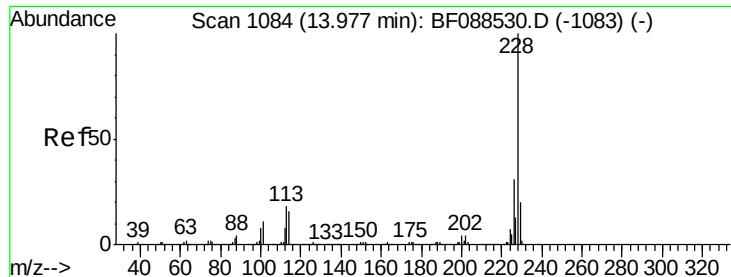
Delta R.T. -0.01 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

Tgt Ion:	228	Resp:	243837
Ion Ratio	Lower	Upper	
228	100		
226	29.4	22.3	33.5
229	21.9	16.0	24.0





#82

Chrysene

Concen: 23.85 ng/mL

RT: 13.87 min Scan# 1075

Delta R.T. 0.00 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

Instrument :

BNA_F

ClientSampleId :

C3-02

Tot Ion: 228 Resp: 188690

Ion Ratio Lower Upper

228 100

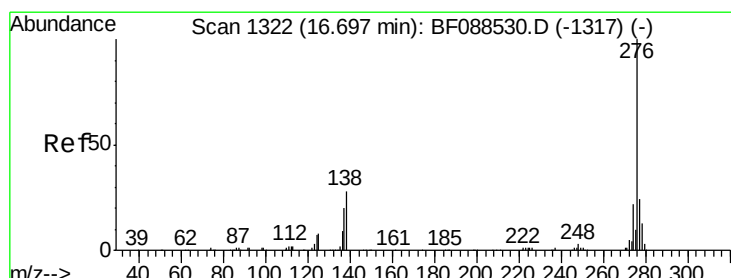
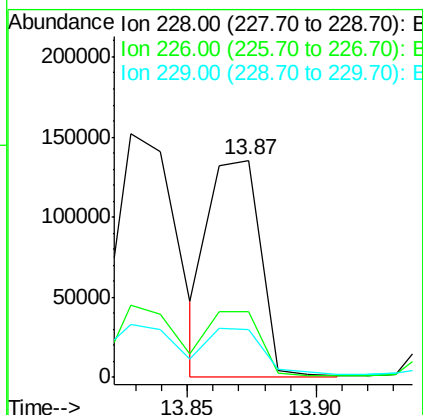
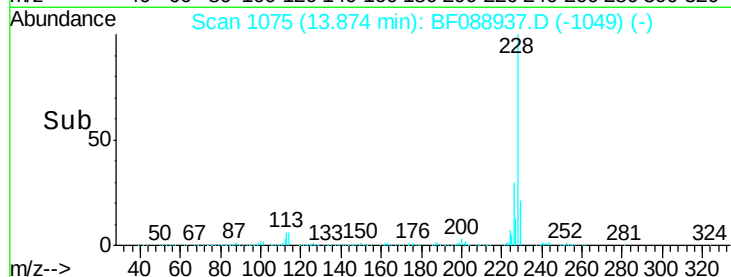
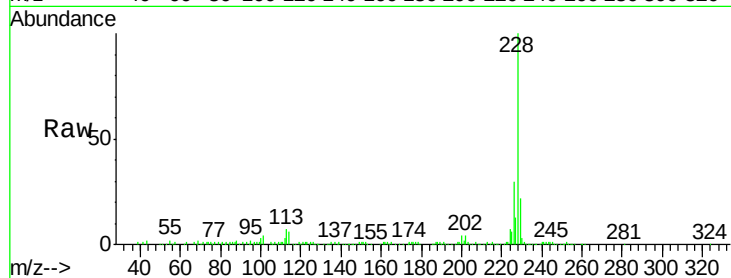
226 30.4 25.4 38.2

229 22.1 16.3 24.5

Manual Integrations

SOHIL

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#85

Indeno(1,2,3-cd)pyrene

Concen: 13.30 ng/mL

RT: 16.50 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BF088937.D

Acq: 12 Jul 2016 23:56

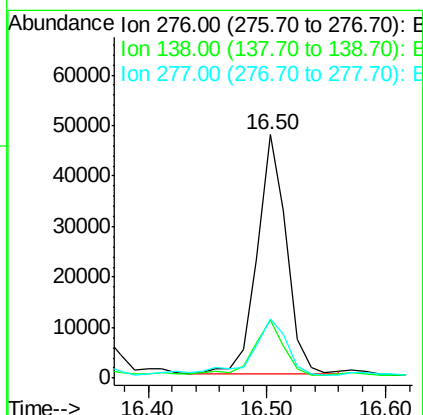
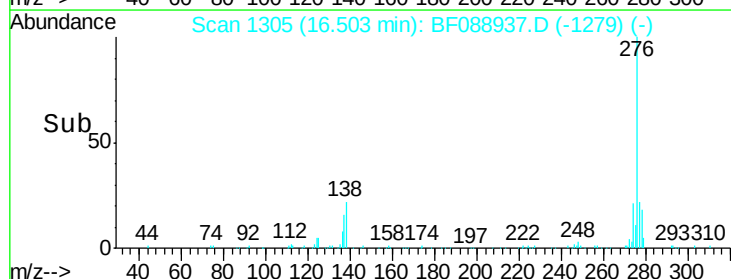
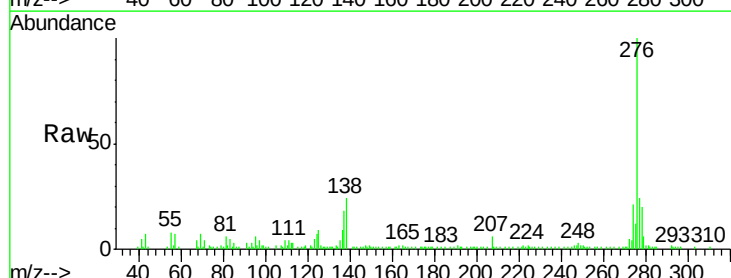
Tgt Ion: 276 Resp: 80924

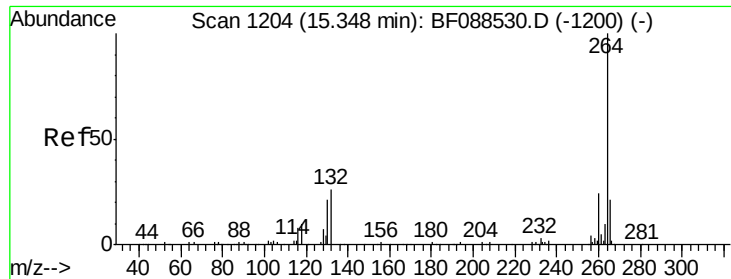
Ion Ratio Lower Upper

276 100

138 23.6 0.0 0.0#

277 28.4 0.0 0.0#





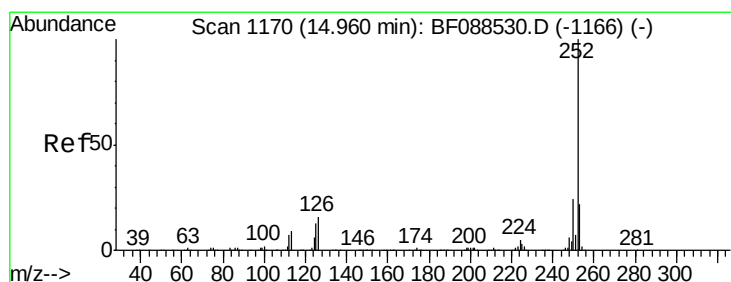
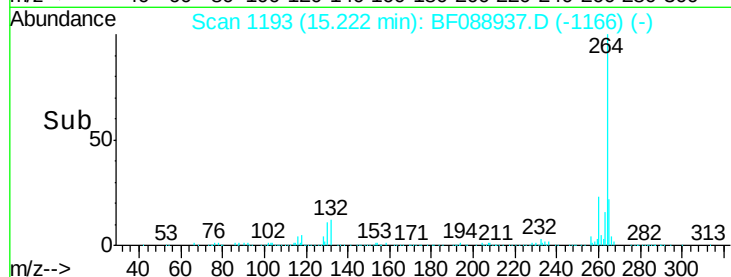
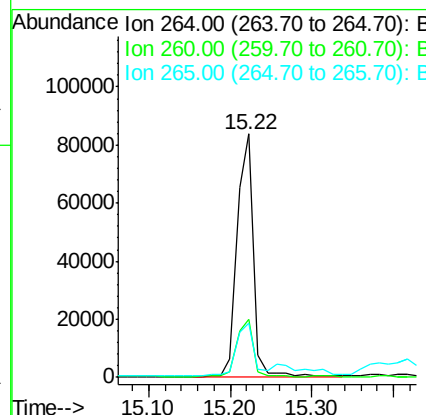
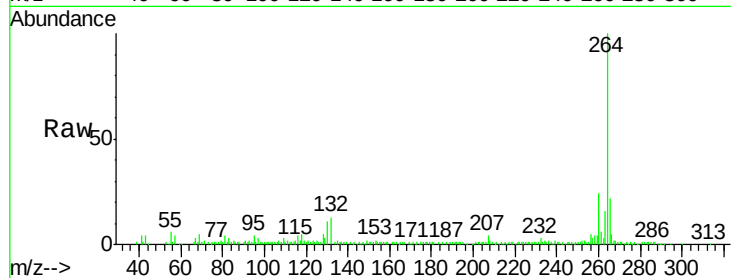
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.22 min Scan# 1193
Delta R.T. 0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampled :
C3-02

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.3	16.9	25.3

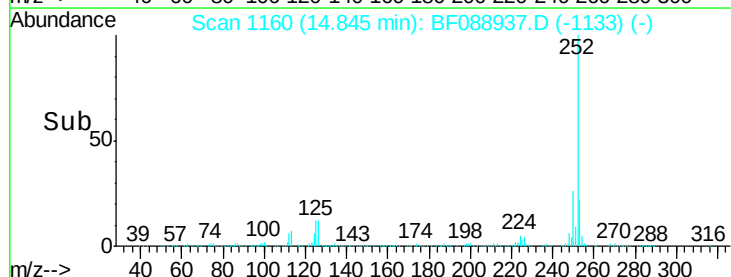
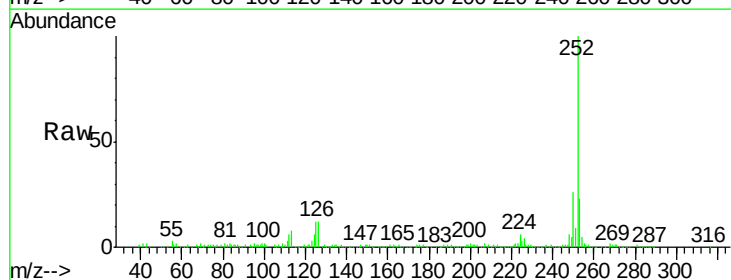
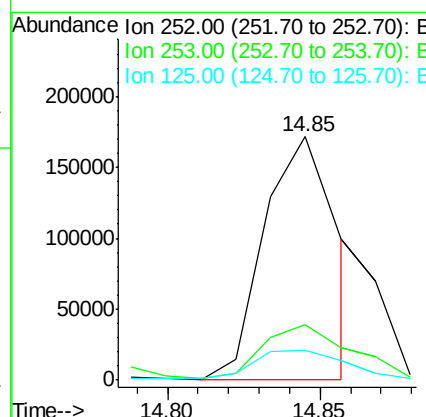
Manual Integrations

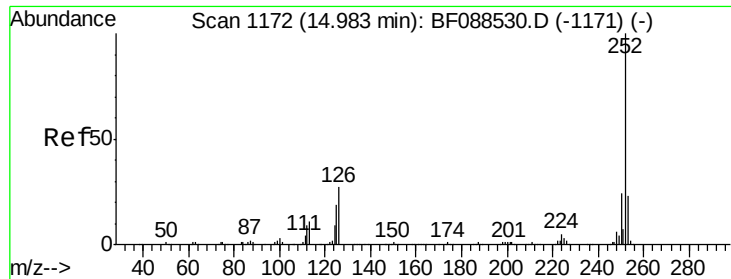
SOHIL
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#87
Benzo(b)fluoranthene
Concen: 38.43 ng m
RT: 14.85 min Scan# 1160
Delta R.T. 0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.2
125	12.4	7.1	10.7#





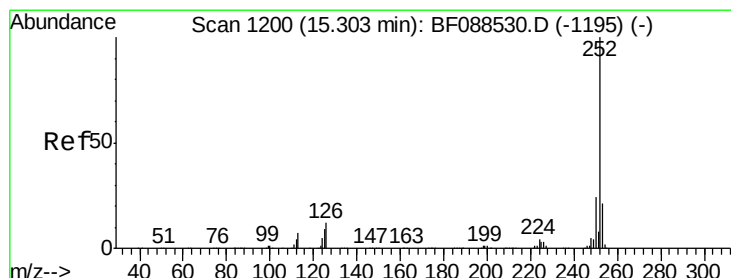
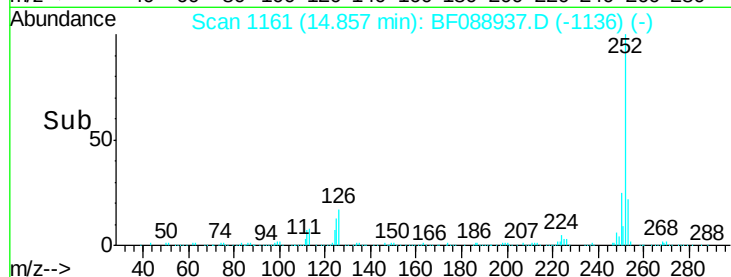
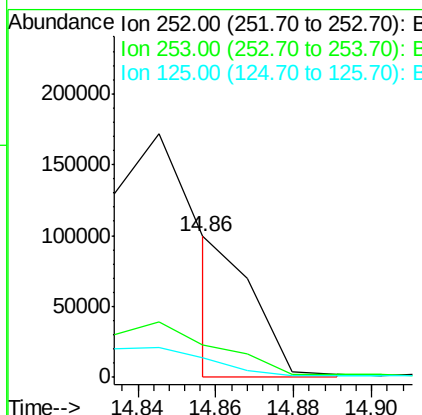
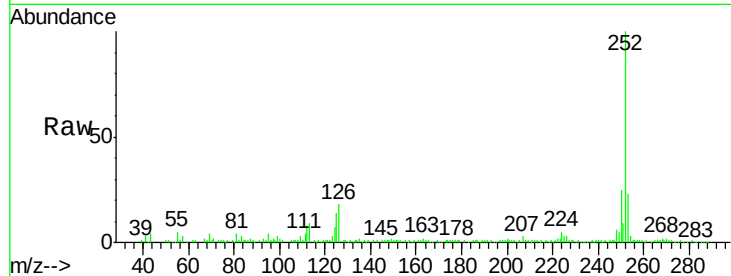
#88
Benzo(k)fluoranthene
Concen: 8.08 ng m
RT: 14.86 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampled :
C3-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	14.2	11.2	16.8

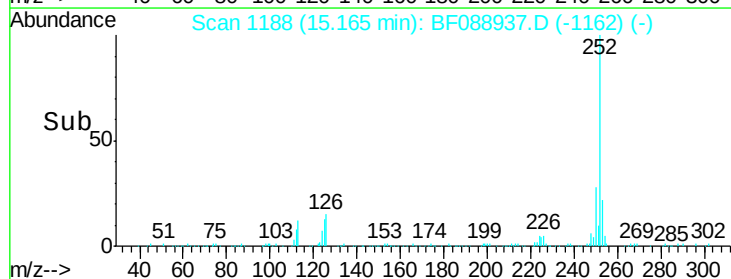
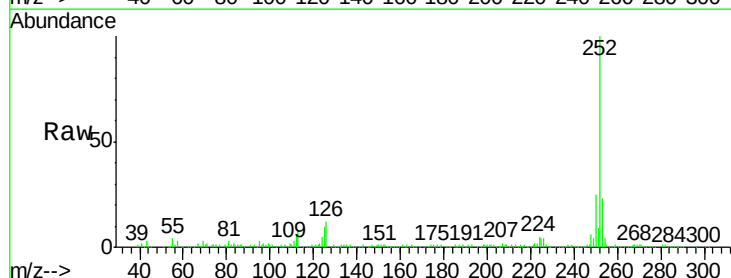
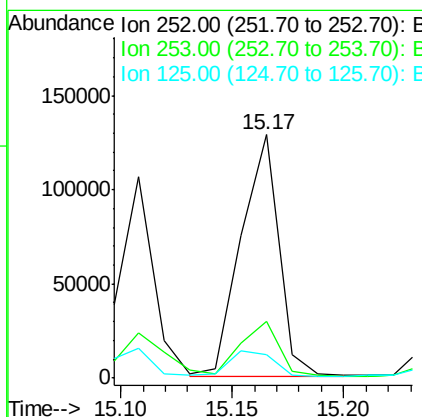
Manual Integrations

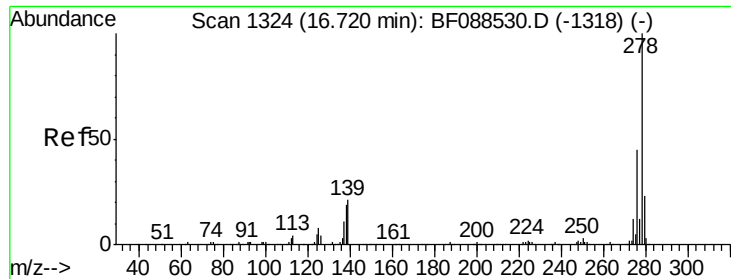
SOHIL
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#89
Benzo(a)pyrene
Concen: 24.16 ng m
RT: 15.17 min Scan# 1188
Delta R.T. 0.00 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	9.9	12.5	18.7#





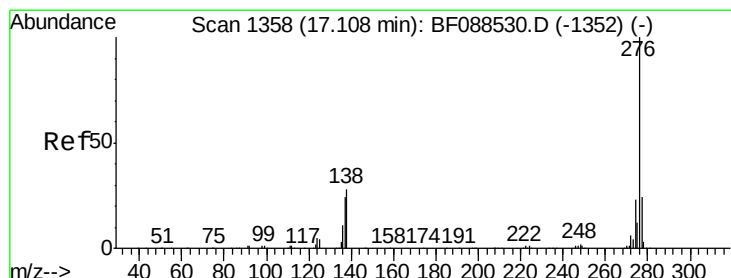
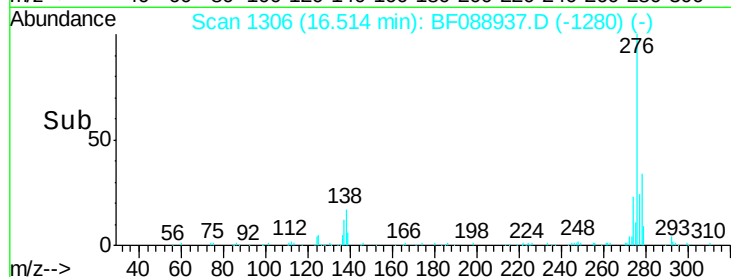
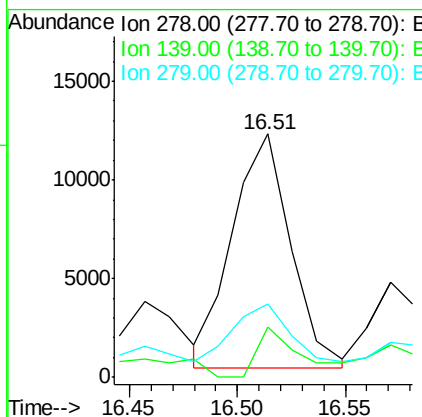
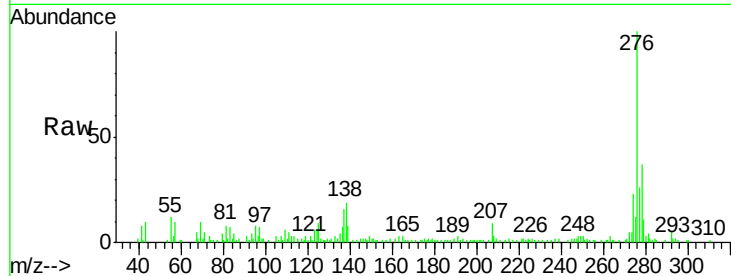
#90
Dibenzo(a,h)anthracene
Concen: 4.26 ng/ml
RT: 16.51 min Scan# 1306
Delta R.T. 0.00 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Instrument :
BNA_F
ClientSampleId :
C3-02

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.7	15.7	23.5
279	30.3	19.4	29.2

Manual Integrations

APPROVED
SOHIL
7/13/2016 9:26:27 AM



#91
Benzo(g,h,i)perylene
Concen: 13.02 ng/ml
RT: 16.89 min Scan# 1339
Delta R.T. 0.00 min
Lab File: BF088937.D
Acq: 12 Jul 2016 23:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.9	28.3
138	23.1	21.4	32.2

