

Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\
 Data File : BF097916.D
 Acq On : 21 Aug 2017 20:19
 Operator : SJ/JU
 Sample : I4875-10
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-D

Manual Integrations
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Sohil
 8/22/2017 5:44:35 PM

Quant Time: Aug 22 11:24:36 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	111256	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	425171	20.00	ng	0.00
38) Acenaphthene-d10	9.78	164	167139	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	273939	20.00	ng	0.00
75) Chrysene-d12	13.90	240	224793	20.00	ng	0.00
86) Perylene-d12	15.32	264	159913	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	586382	80.17	ng	0.00
7) Phenol-d6	6.38	99	792913	79.79	ng	0.00
23) Nitrobenzene-d5	7.31	82	467674	59.76	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	106781	73.63	ng	0.00
44) 2-Fluorobiphenyl	9.11	172	674466	59.29	ng	0.00
78) Terphenyl-d14	12.85	244	476188	44.17	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.05	128	51595	2.337	ng	99
37) 2-Methylnaphthalene	8.75	142	38365	2.835	ng	96
48) Acenaphthylene	9.65	152	81722	4.621	ng	99
49) Dimethylphthalate	9.50	163	130569	10.687	ng	98
51) Acenaphthene	9.82	154	31948	2.864	ng	96
54) Dibenzofuran	9.99	168	41150	2.753	ng	# 95
57) Fluorene	10.33	166	74120	6.413	ng	96
70) Phenanthrene	11.29	178	441435	30.241	ng	98
71) Anthracene	11.34	178	127261	8.595	ng	99
72) Carbazole	11.49	167	33079	2.354	ng	98
74) Fluoranthene	12.47	202	489002	32.095	ng	99
77) Pyrene	12.70	202	565843	30.777	ng	98
80) Benzo(a)anthracene	13.89	228	248845m	18.470	ng	
82) Chrysene	13.92	228	240670	17.957	ng	96
85) Indeno(1,2,3-cd)pyrene	16.70	276	80928m	8.208	ng	
87) Benzo(b)fluoranthene	14.92	252	221409m	21.966	ng	
88) Benzo(k)fluoranthene	14.94	252	62772m	6.628	ng	
89) Benzo(a)pyrene	15.26	252	168288	18.859	ng	98
90) Dibenzo(a,h)anthracene	16.71	278	19862	2.734	ng	# 80
91) Benzo(a,h,i)perylene	17.12	276	83893	11.067	ng	95

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

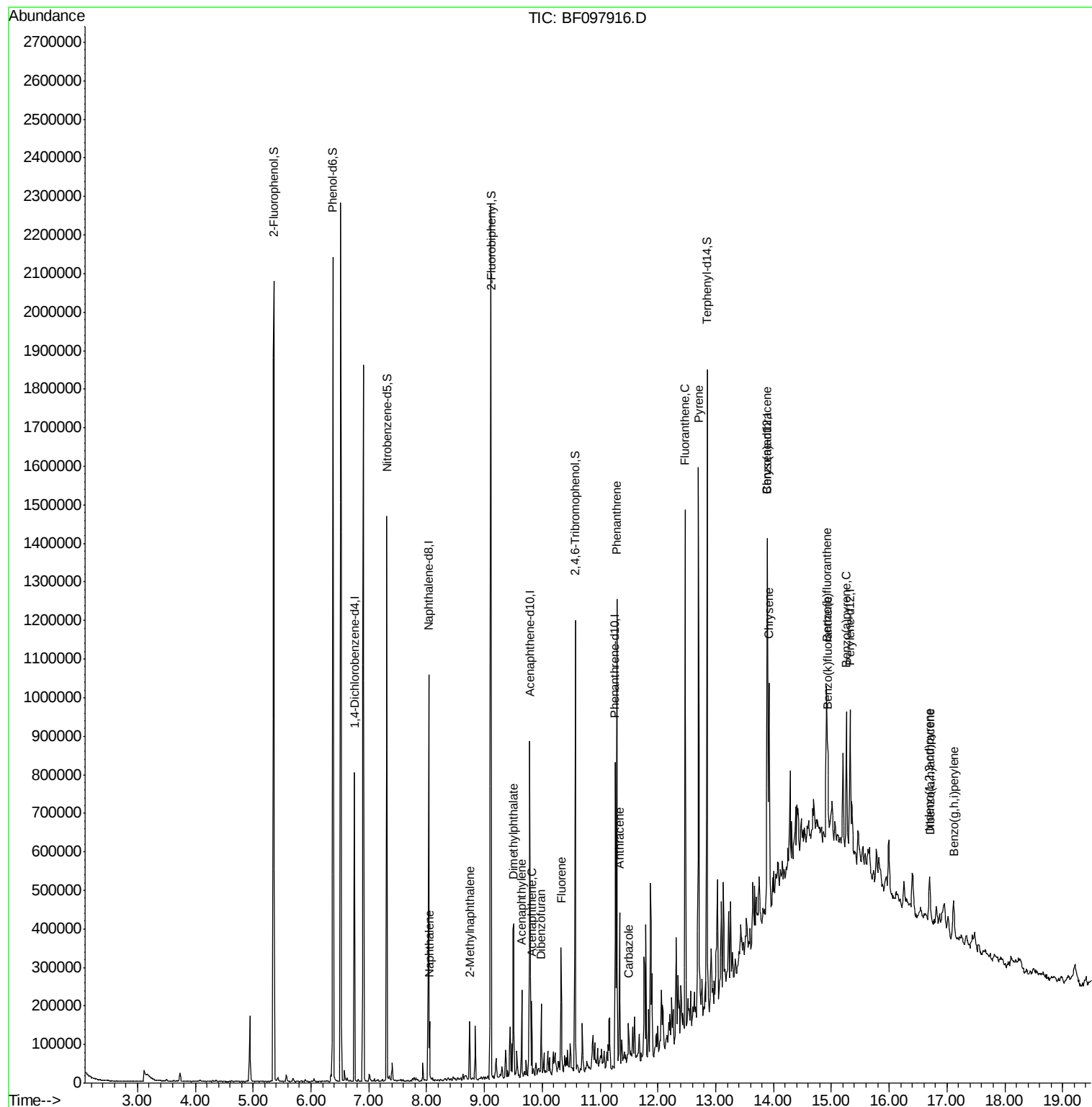
Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\
Data File : BF097916.D
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ALS Vial : 9 Sample Multiplier: 1

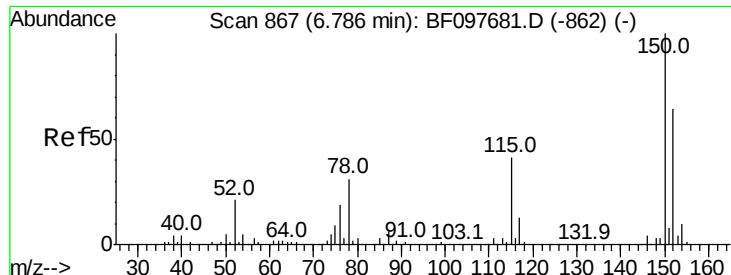
Instrument :
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CL-02-081717-D

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#1

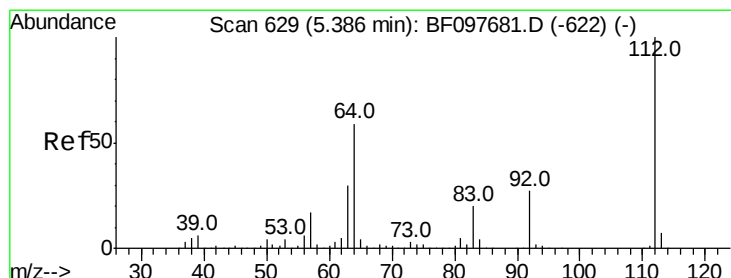
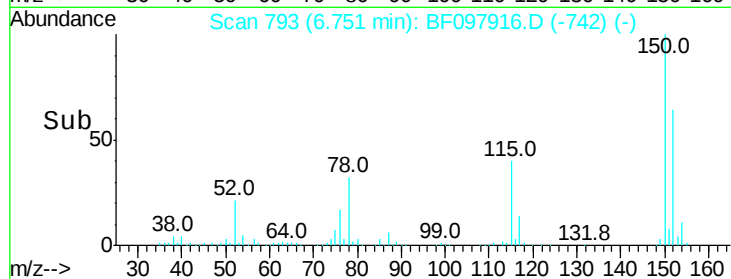
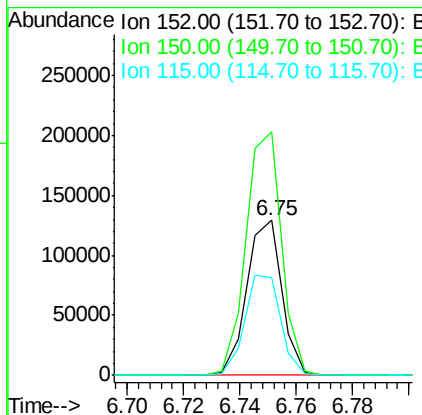
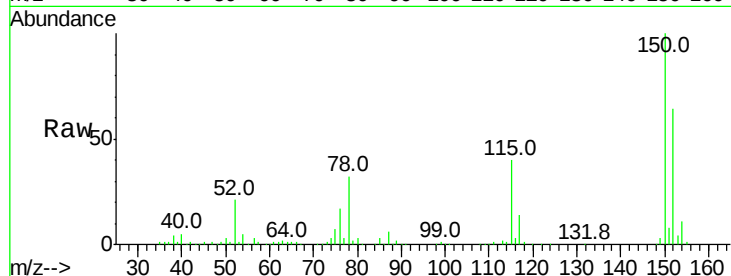
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 793
Delta R.T. 0.00 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Instrument :
BNA_F
ClientSampleId :
CL-02-081717-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	126.2	189.2
115	63.0	52.2	78.2

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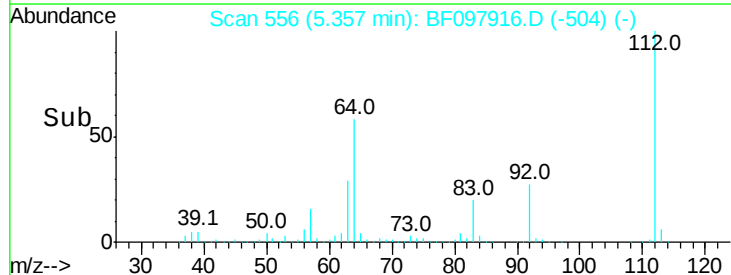
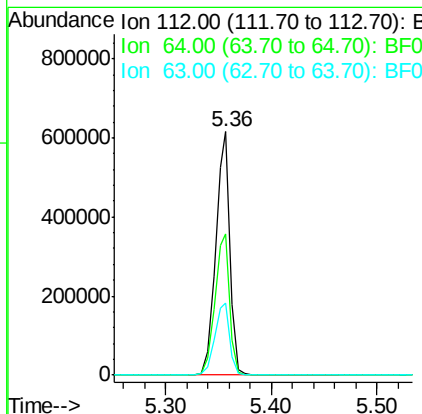
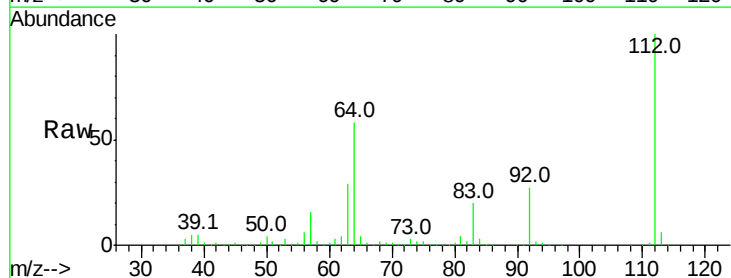
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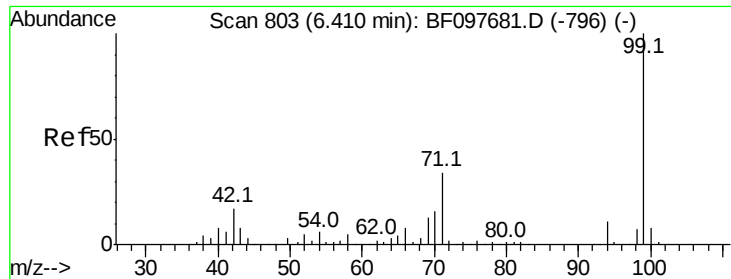


#5

2-Fluorophenol
Concen: 80.169 ng
RT: 5.36 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	46.0	69.0
63	29.5	23.4	35.0





#7

Phenol-d6

Concen: 79.786 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

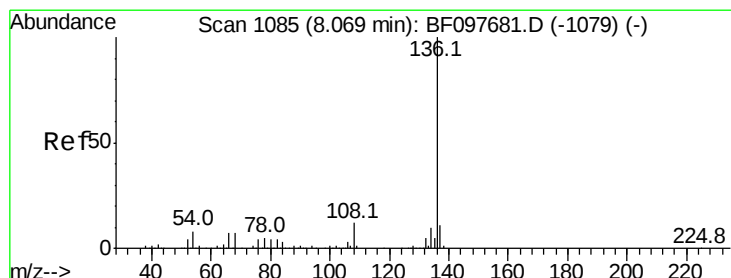
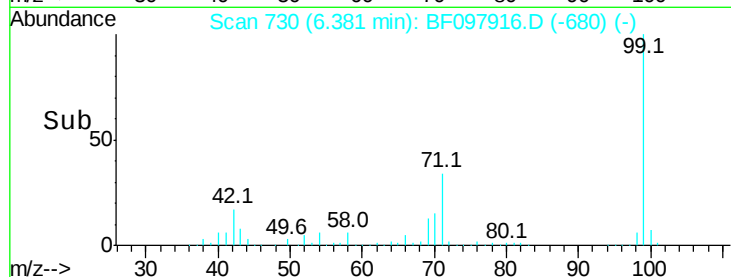
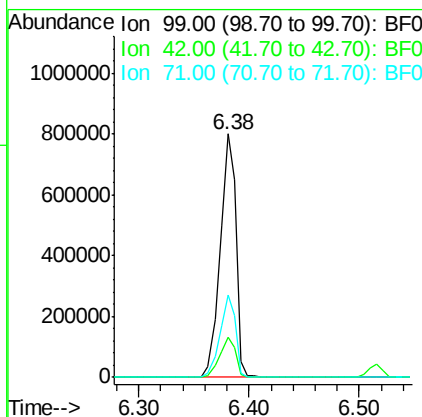
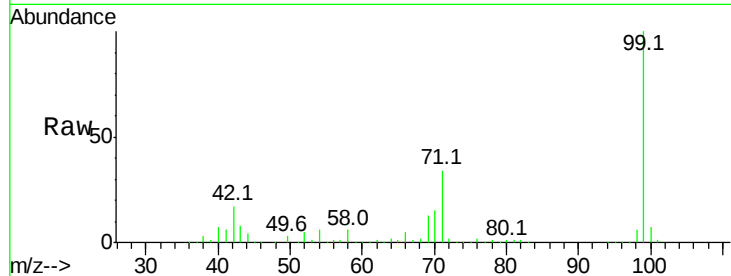
ClientSampleId :

CL-02-081717-D

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		792913		
42	16.6	13.5	20.3		
71	34.0	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.000 ng

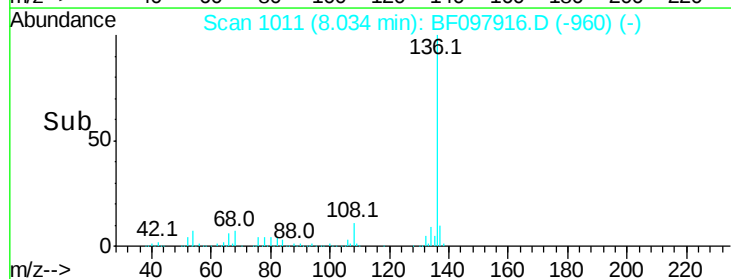
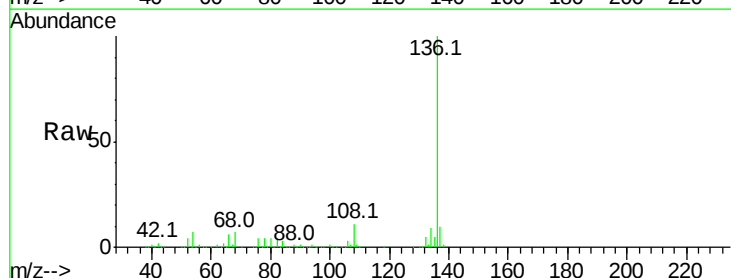
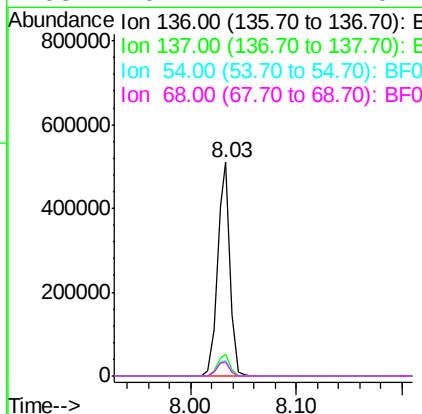
RT: 8.03 min Scan# 1011

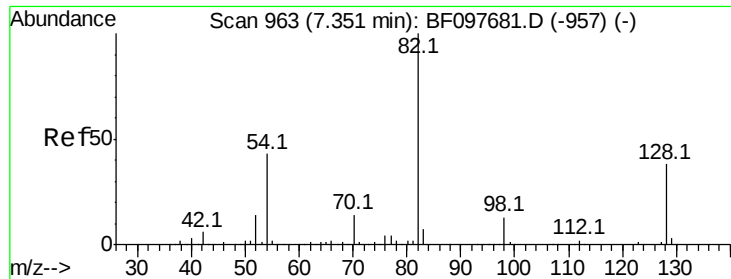
Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		425171		
137	10.5	8.5	12.7		
54	7.0	4.9	7.3		
68	6.7	4.1	6.1#		





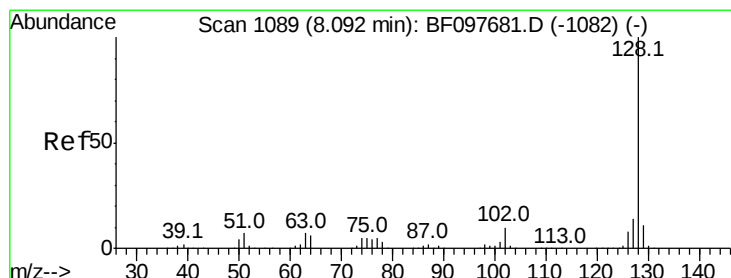
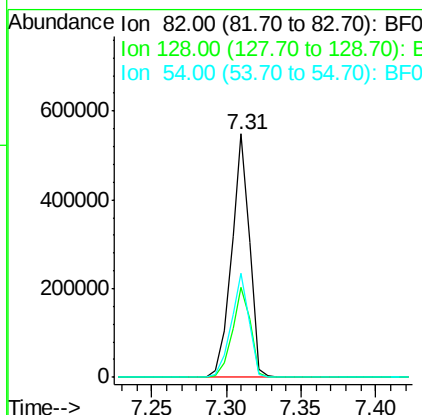
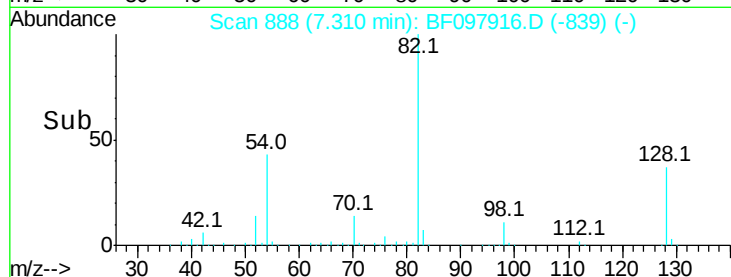
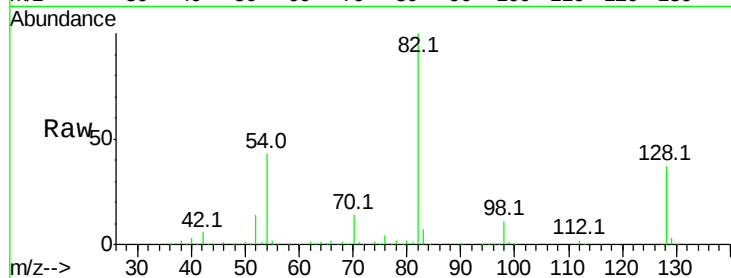
#23
 Nitrobenzene-d5
 Concen: 59.755 ng
 RT: 7.31 min Scan# 888
 Delta R.T. -0.01 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-D

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	37.0	34.0	51.0	
54	42.6	42.2	63.2	

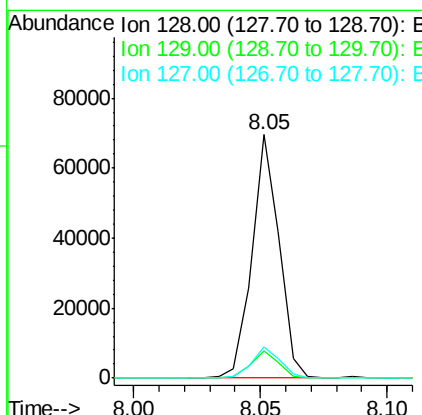
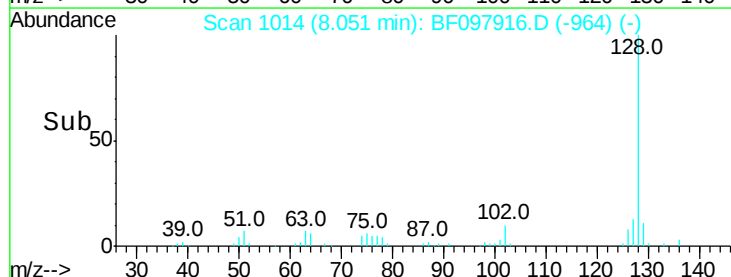
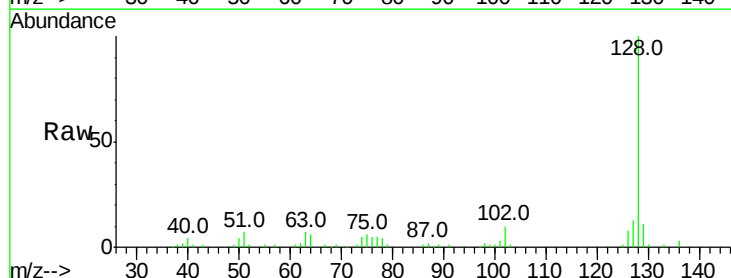
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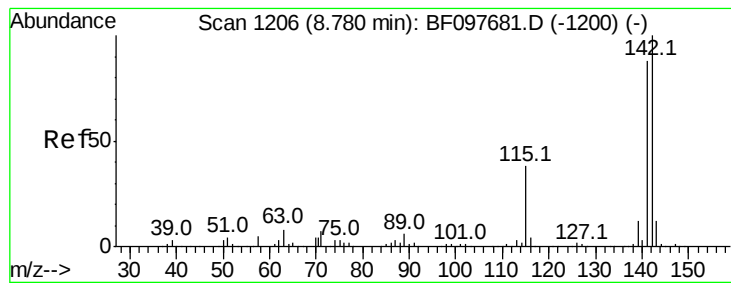
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#31
 Naphthalene
 Concen: 2.337 ng
 RT: 8.05 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.1	9.0	13.6	
127	12.6	10.8	16.2	





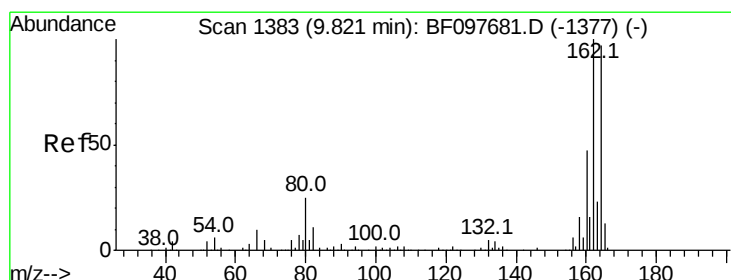
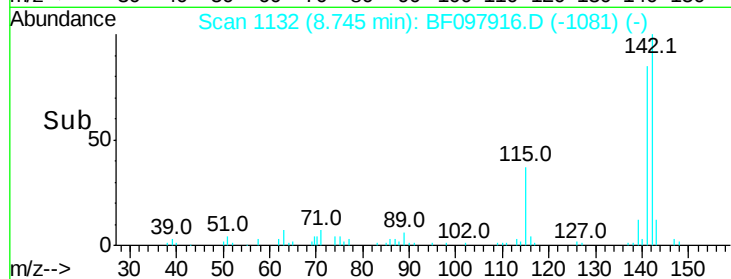
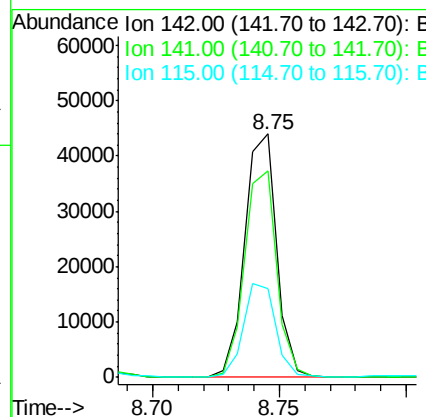
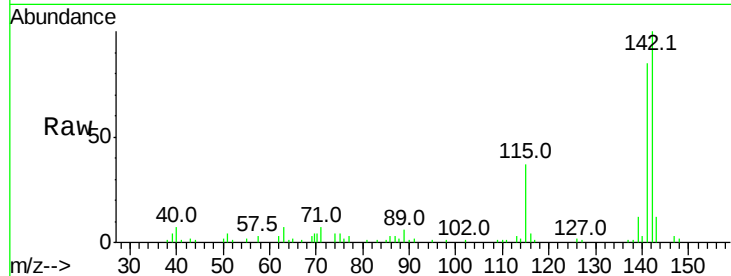
#37
 2-Methylnaphthalene
 Concen: 2.835 ng
 RT: 8.75 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-D

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.1	71.3	106.9
115	36.6	27.1	40.7

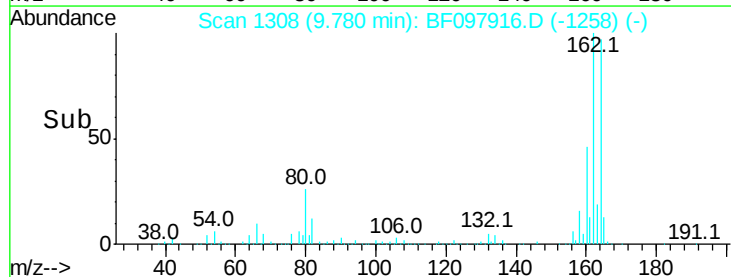
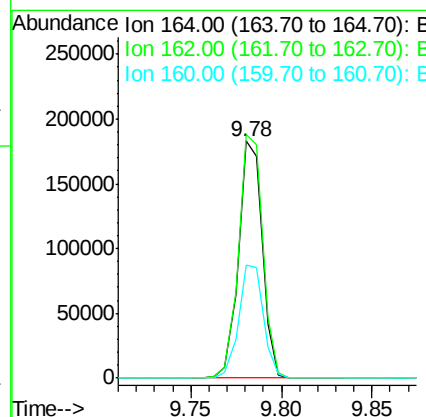
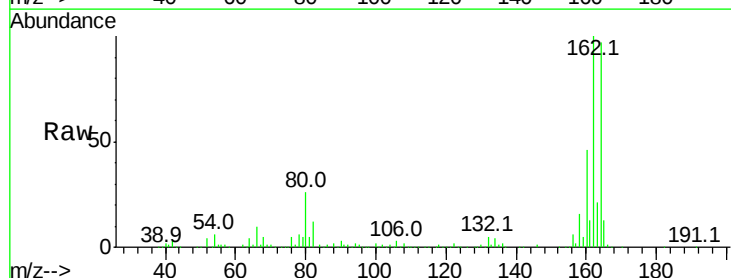
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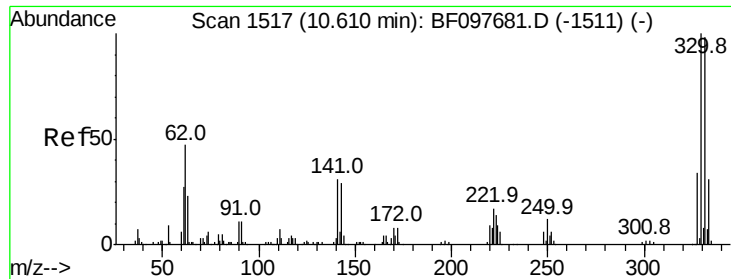
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.78 min Scan# 1308
 Delta R.T. -0.01 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.6	123.8
160	47.6	36.2	54.2





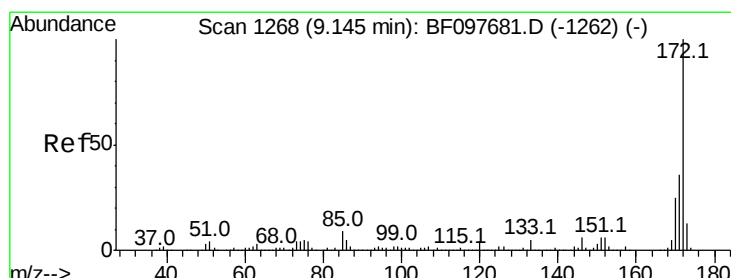
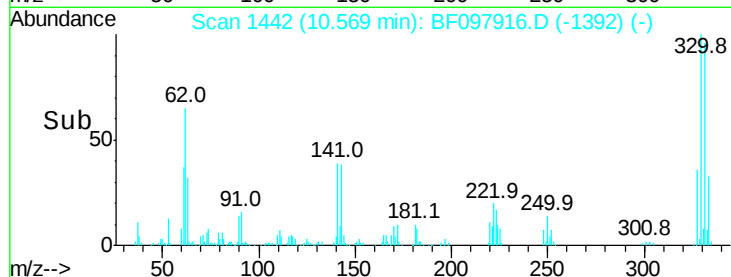
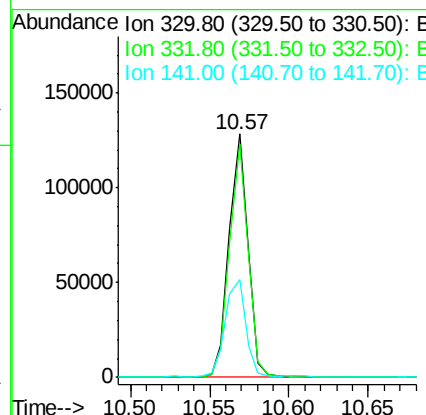
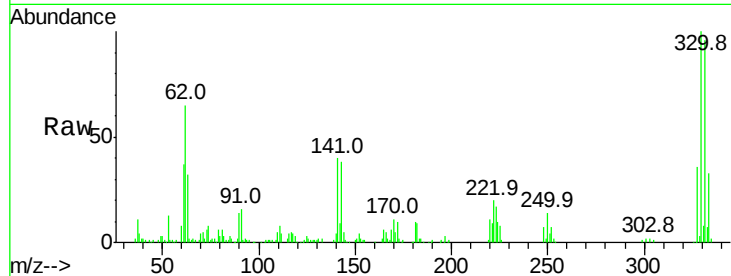
#41
 2,4,6-Tribromophenol
 Concen: 73.632 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-D

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.4	76.6	115.0	
141	42.7	31.4	47.2	

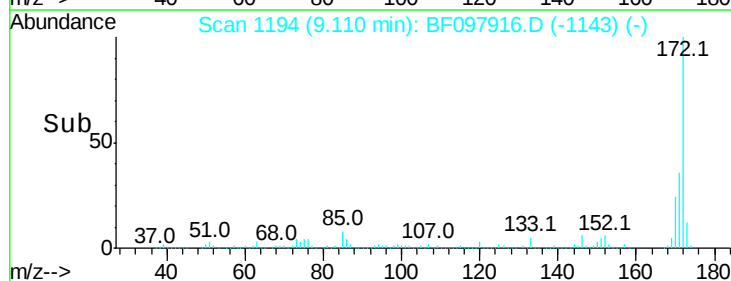
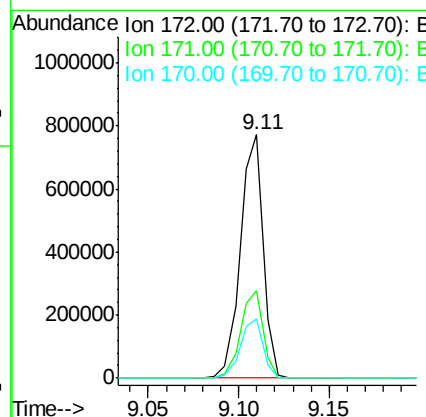
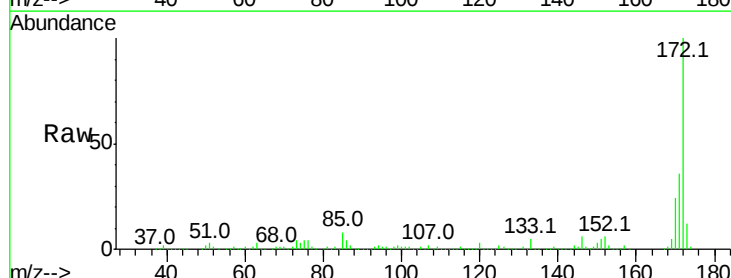
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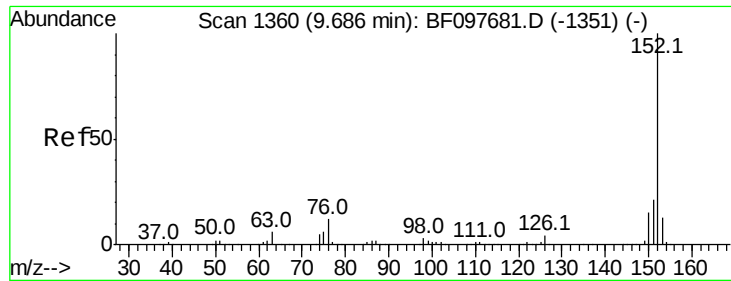
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#44
 2-Fluorobiphenyl
 Concen: 59.288 ng
 RT: 9.11 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.2	29.6	44.4	
170	24.4	19.8	29.8	





#48

Acenaphthylene

Concen: 4.621 ng

RT: 9.65 min Scan# 1285

Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

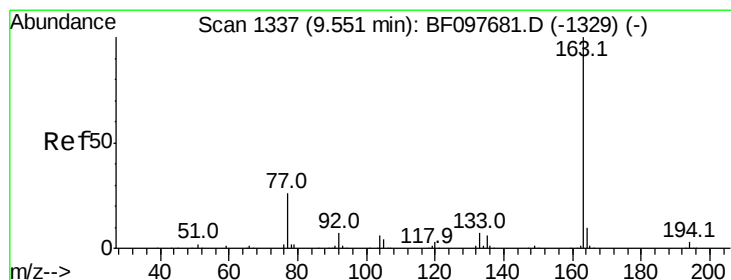
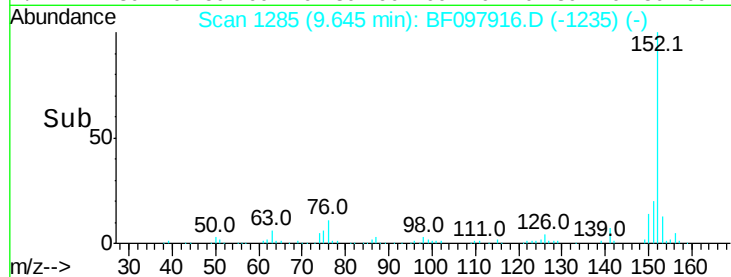
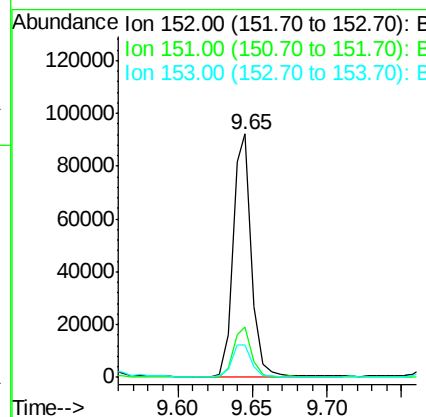
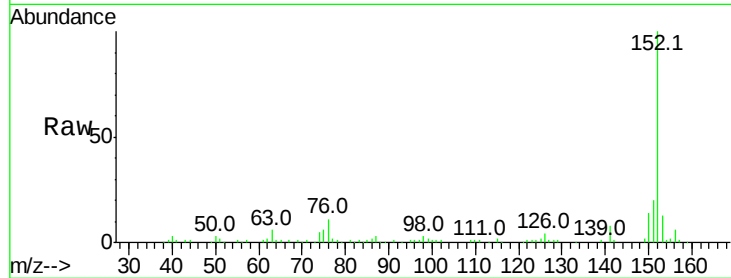
ClientSampleId :

CL-02-081717-D

Tot Ion:	152	Resp:	81722
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.8	25.2
153	13.1	10.8	16.2

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#49

Dimethylphthalate

Concen: 10.687 ng

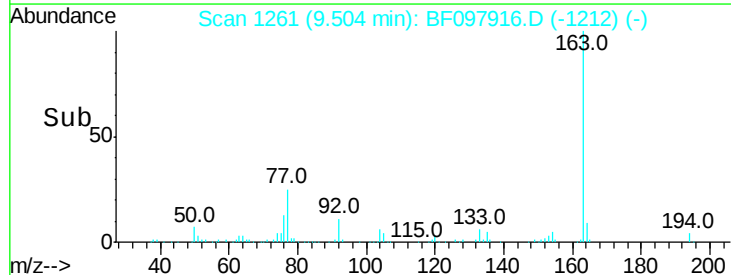
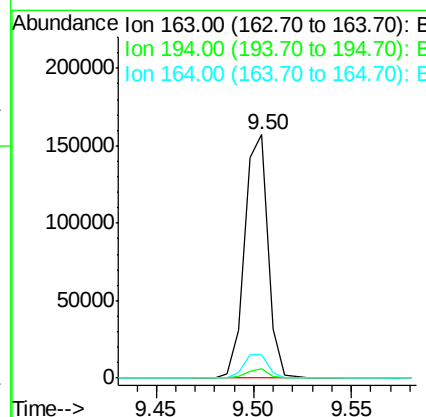
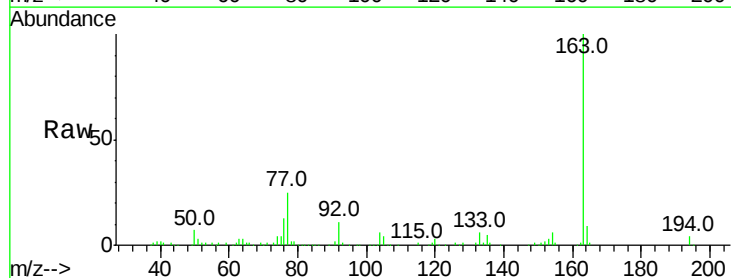
RT: 9.50 min Scan# 1261

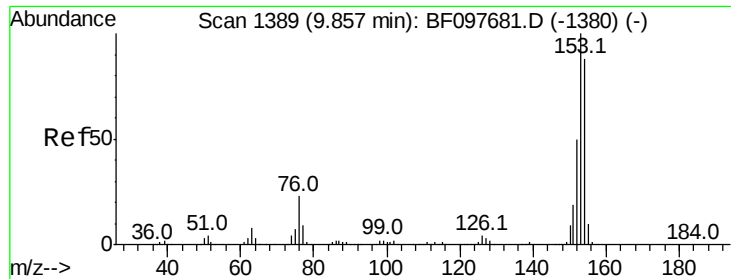
Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion:	163	Resp:	130569
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.6	4.0
164	9.4	8.4	12.6





#51

Acenaphthene

Concen: 2.864 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

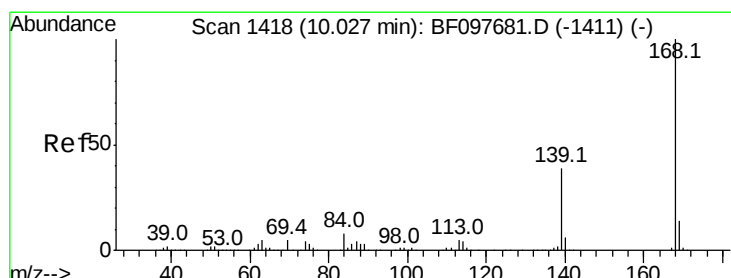
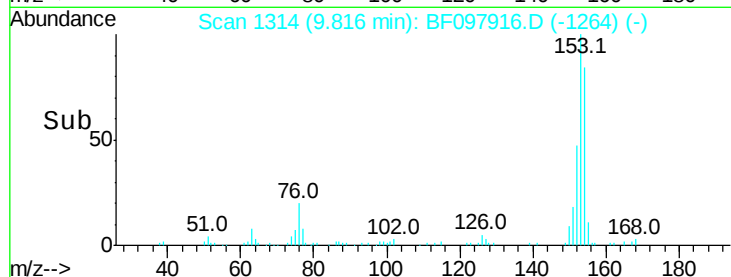
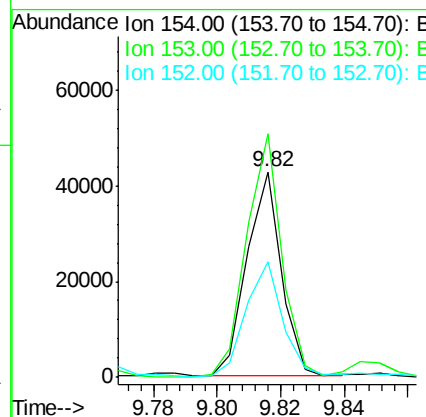
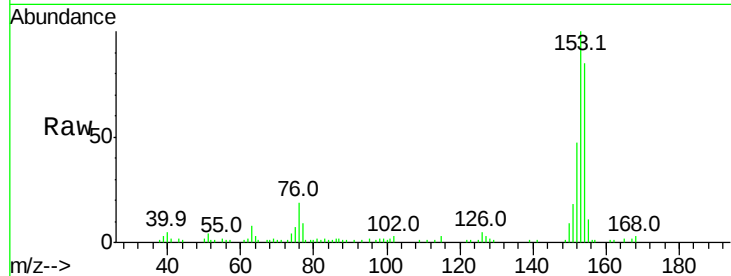
ClientSampleId :

CL-02-081717-D

Tot Ion:	154	Resp:	31948
Ion Ratio	Lower	Upper	
154	100		
153	118.3	90.5	135.7
152	55.9	43.6	65.4

Manual Integrations
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#54

Dibenzofuran

Concen: 2.753 ng

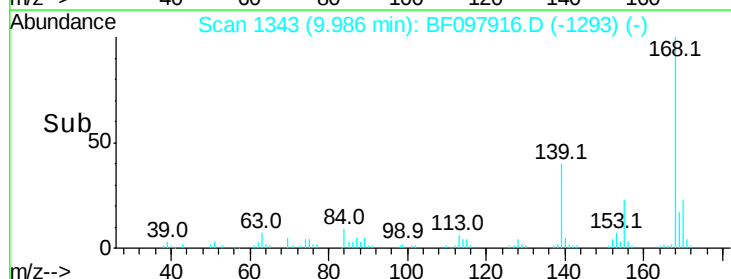
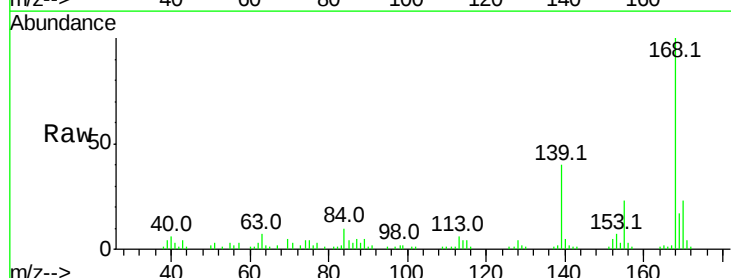
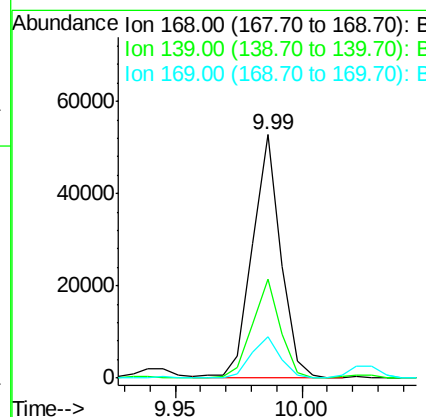
RT: 9.99 min Scan# 1343

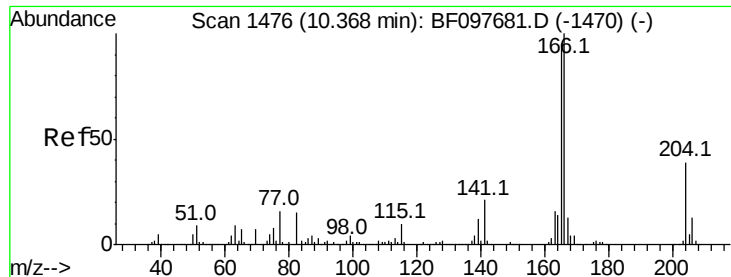
Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion:	168	Resp:	41150
Ion Ratio	Lower	Upper	
168	100		
139	40.5	30.6	45.8
169	16.9	10.8	16.2#





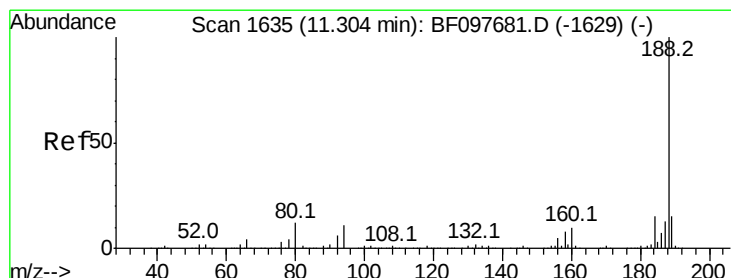
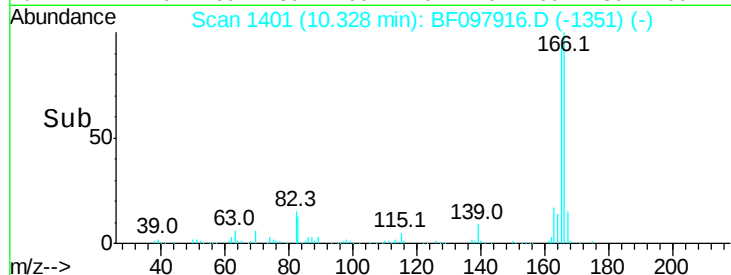
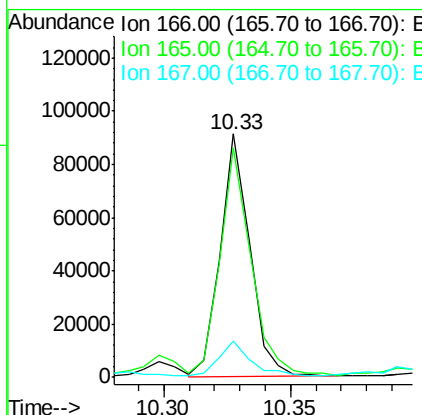
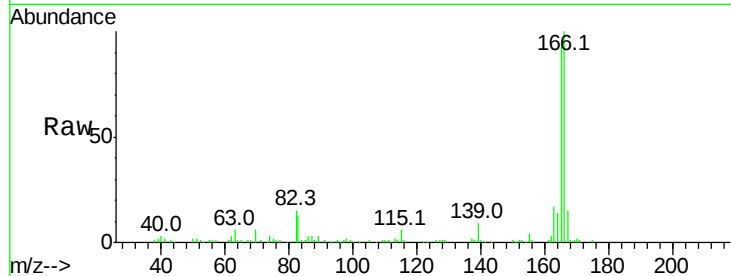
#57
Fluorene
 Concen: 6.413 ng
 RT: 10.33 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-081717-D

Tot Ion	Ratio	Resp	Lower	Upper
166	100	74120		
165	94.4	78.8	118.2	
167	15.0	10.6	16.0	

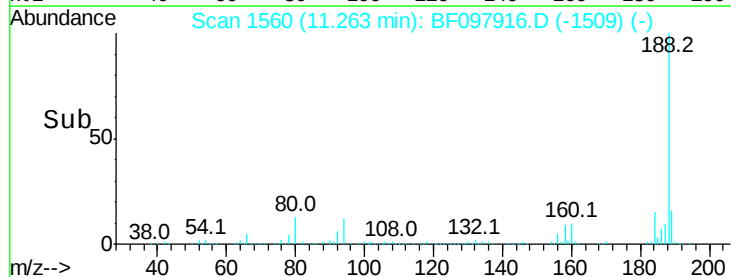
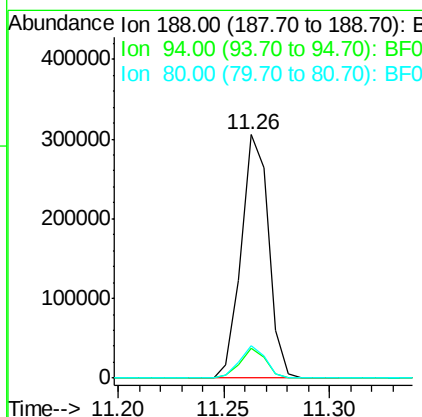
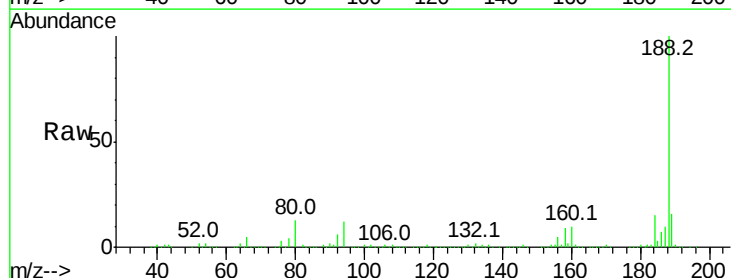
Manual Integrations
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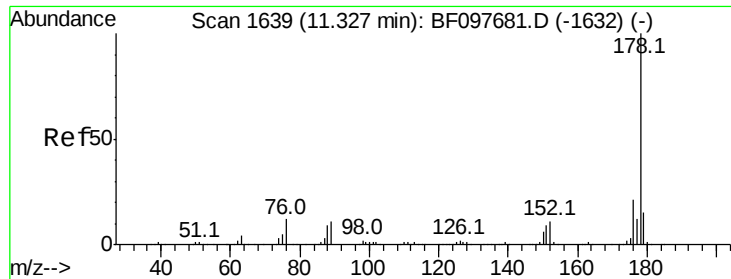
Sohil
 8/22/2017 5:44:35 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.26 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: BF097916.D
 Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	273939		
94	12.3	9.4	14.2	
80	13.1	10.2	15.2	





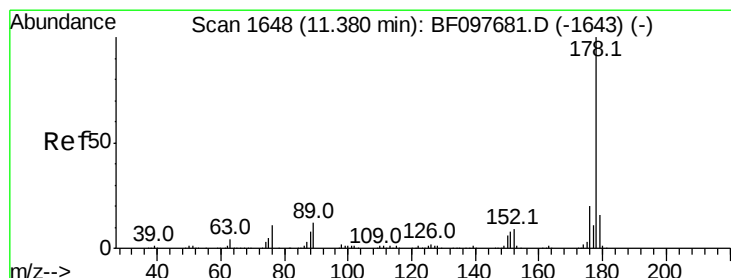
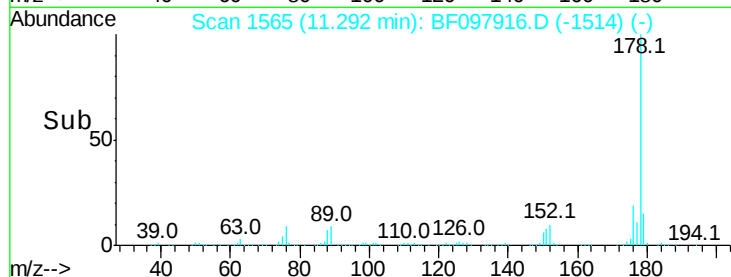
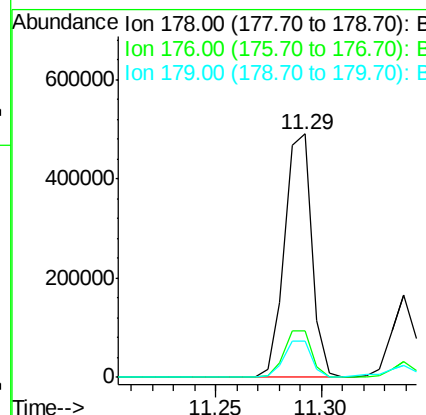
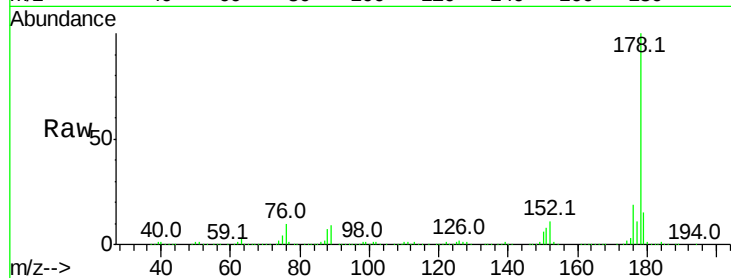
#70
Phenanthrene
Concen: 30.241 ng
RT: 11.29 min Scan# 1565
Delta R.T. 0.00 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Instrument :
BNA_F
ClientSampleId :
CL-02-081717-D

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	14.9	12.6	19.0

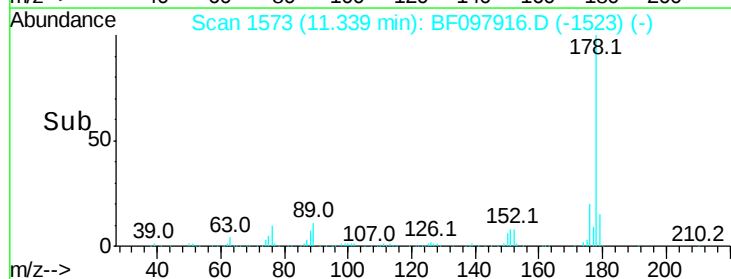
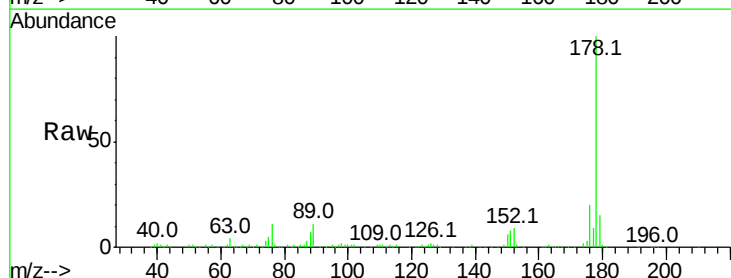
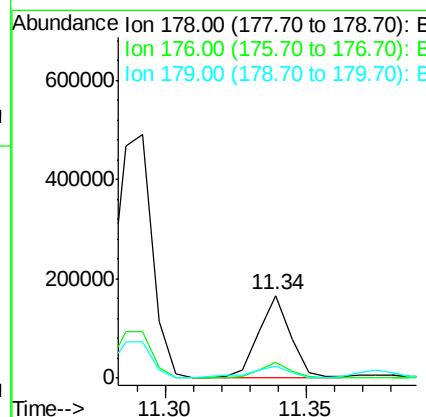
Manual Integrations
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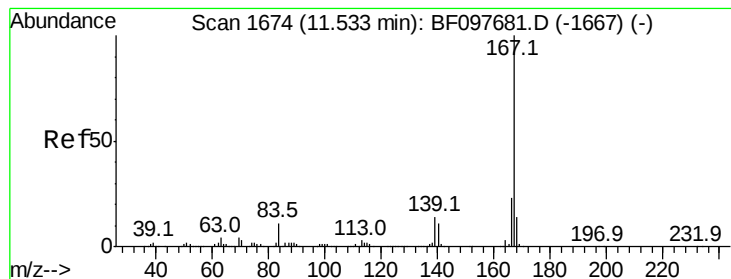
Sohil
8/22/2017 5:44:35 PM



#71
Anthracene
Concen: 8.595 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.2	12.7	19.1





#72

Carbazole

Concen: 2.354 ng

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

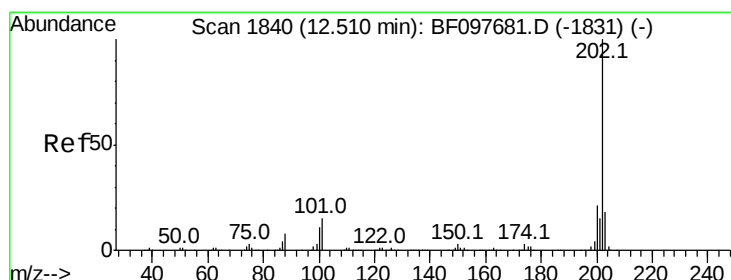
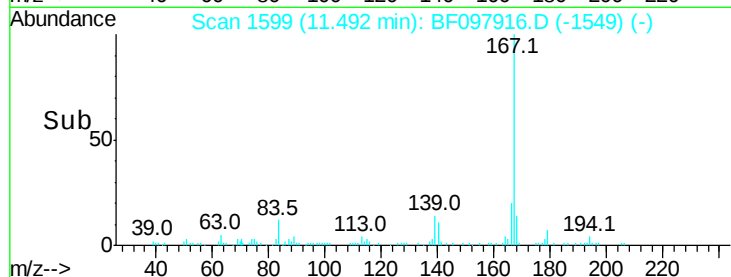
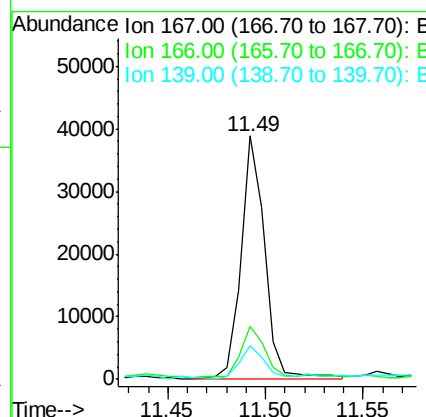
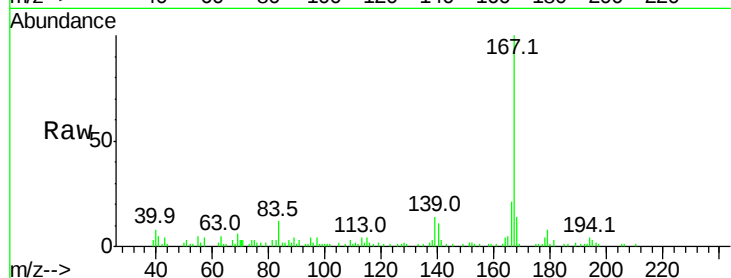
ClientSampled :

CL-02-081717-D

Tot Ion:	167	Resp:	33079
Ion Ratio	Lower	Upper	
167	100		
166	21.5	18.1	27.1
139	13.8	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 32.095 ng

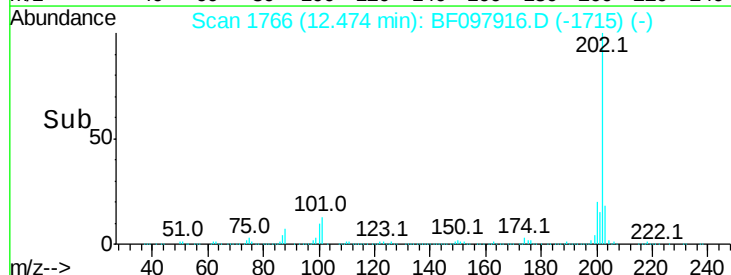
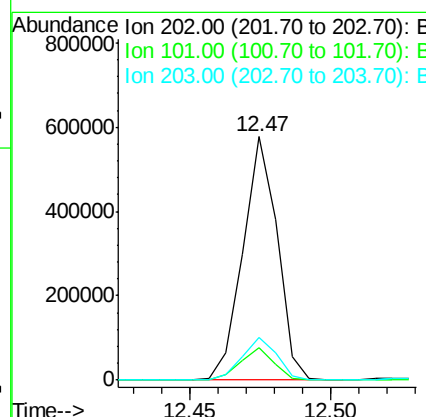
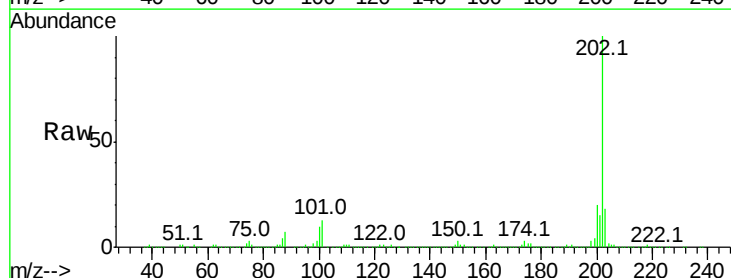
RT: 12.47 min Scan# 1766

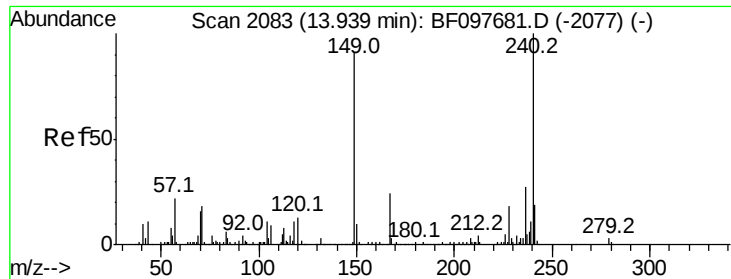
Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion:	202	Resp:	489002
Ion Ratio	Lower	Upper	
202	100		
101	13.4	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

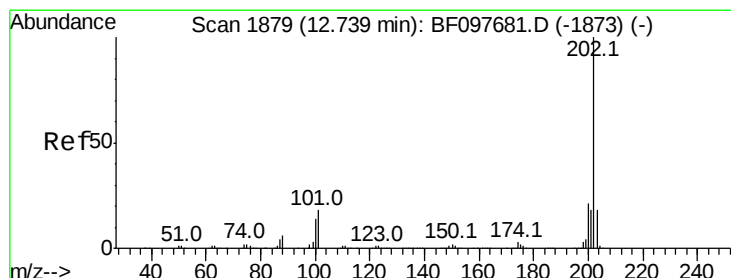
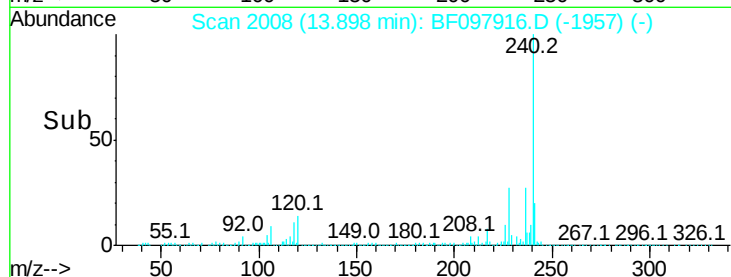
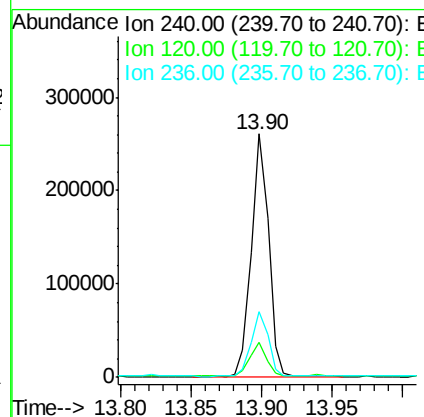
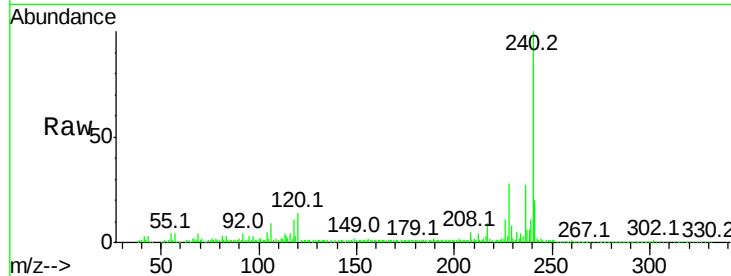
ClientSampled :

CL-02-081717-D

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.2	5.8	8.8#
236	27.2	20.5	30.7

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#77

Pyrene

Concen: 30.777 ng

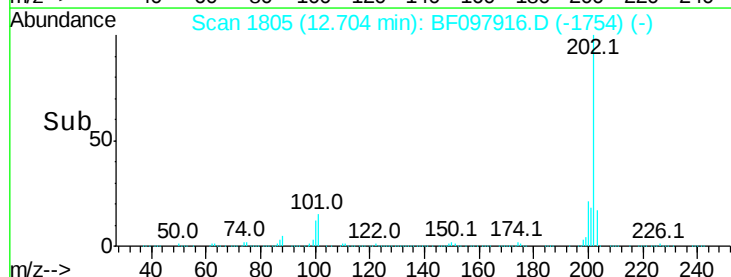
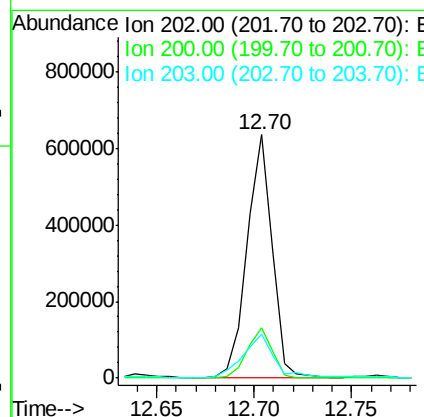
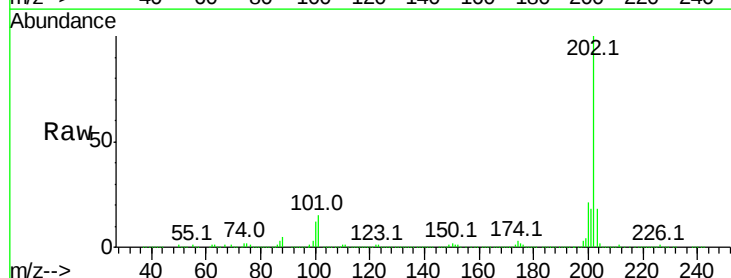
RT: 12.70 min Scan# 1805

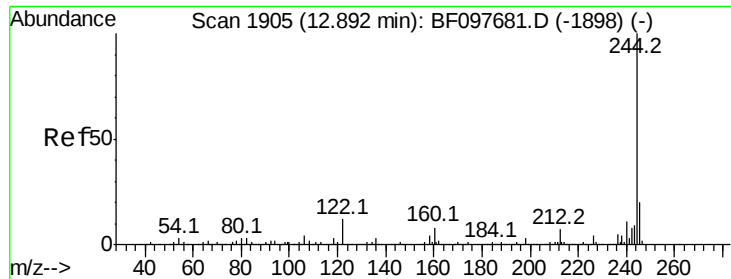
Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.6	26.4
203	17.9	14.4	21.6





#78

Terphenyl-d14

Concen: 44.175 ng

RT: 12.85 min Scan# 1830

Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

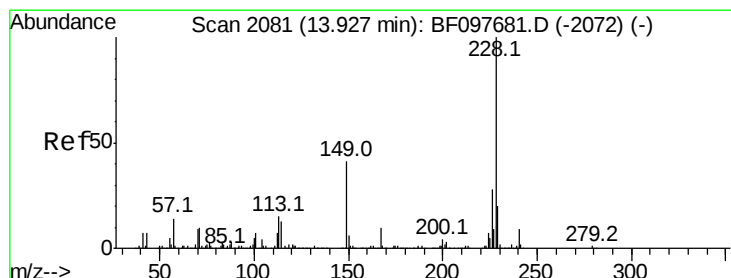
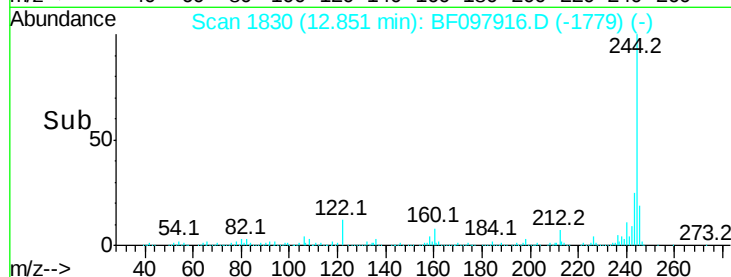
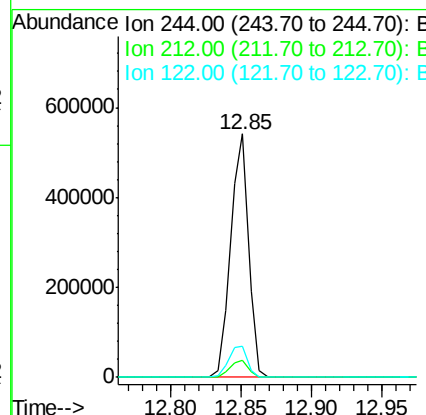
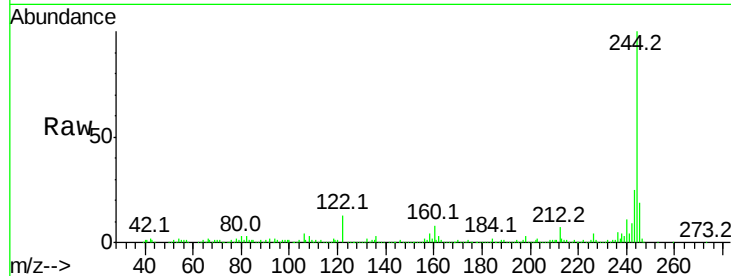
ClientSampleId :

CL-02-081717-D

Tot Ion:	244	Resp:	476188
Ion Ratio	Lower	Upper	
244	100		
212	7.2	6.0	9.0
122	12.6	10.3	15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 18.470 ng m

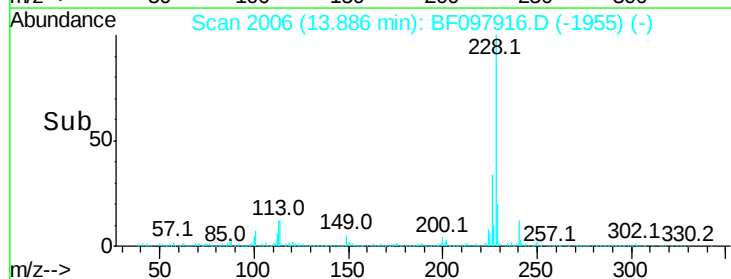
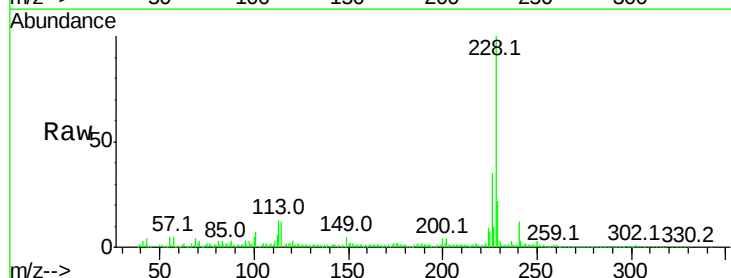
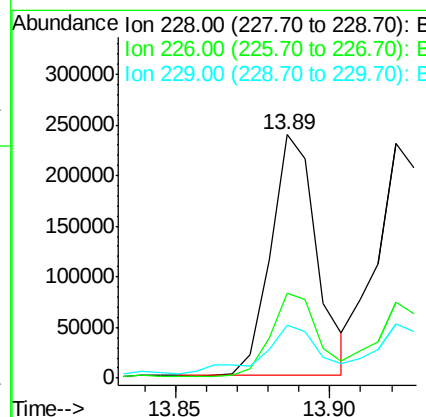
RT: 13.89 min Scan# 2006

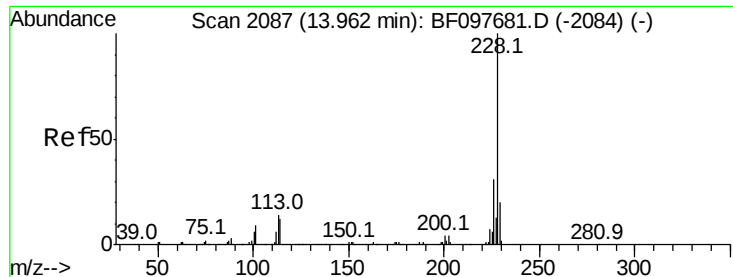
Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion:	228	Resp:	248845
Ion Ratio	Lower	Upper	
228	100		
226	34.8	22.6	33.8#
229	21.6	16.3	24.5





#82

Chrysene

Concen: 17.957 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

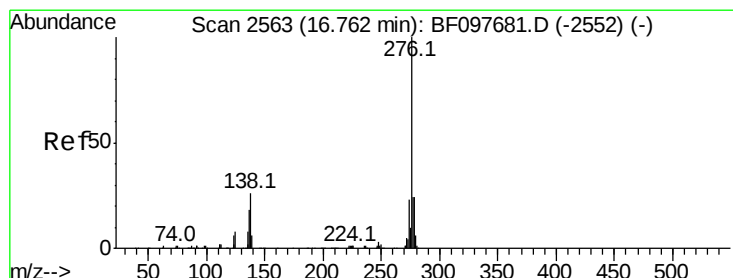
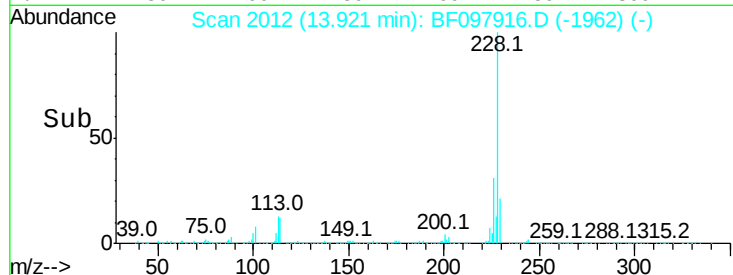
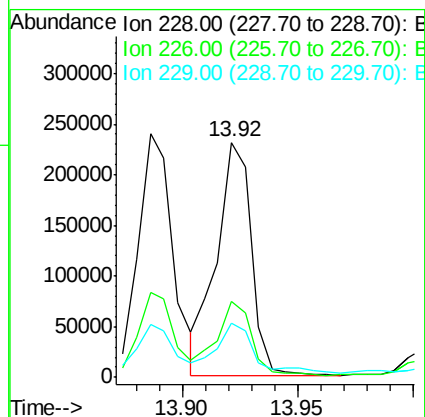
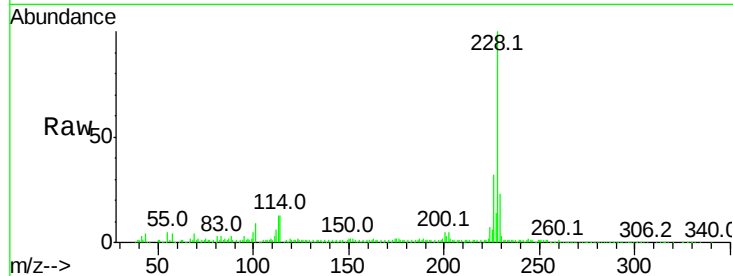
ClientSampleId :

CL-02-081717-D

Tot Ion:	228	Resp:	240670
Ion Ratio	Lower	Upper	
228	100		
226	32.3	24.9	37.3
229	23.1	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.208 ng m

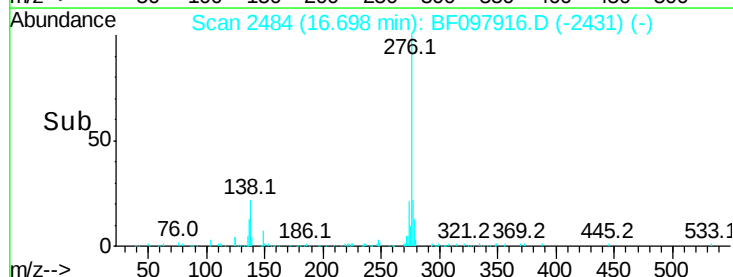
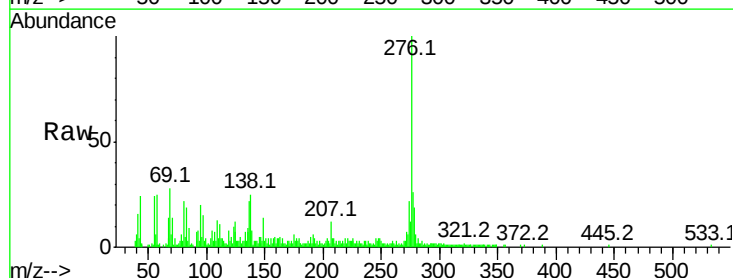
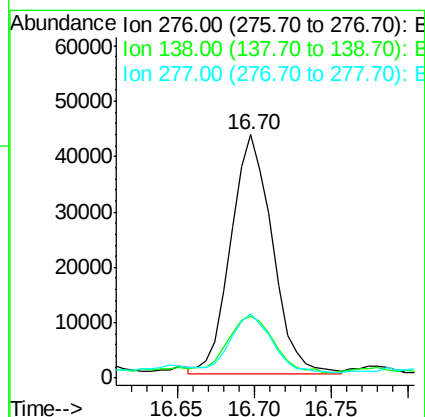
RT: 16.70 min Scan# 2484

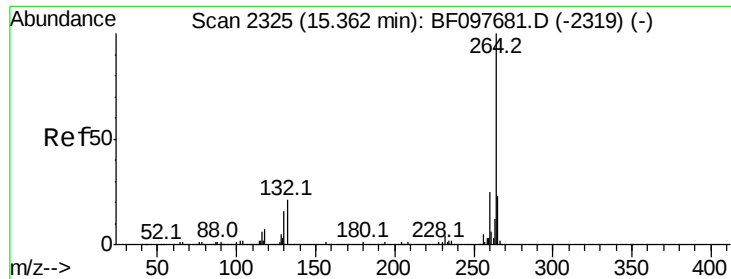
Delta R.T. 0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion:	276	Resp:	80928
Ion Ratio	Lower	Upper	
276	100		
138	6.4	27.8	41.6#
277	4.3	20.2	30.4#





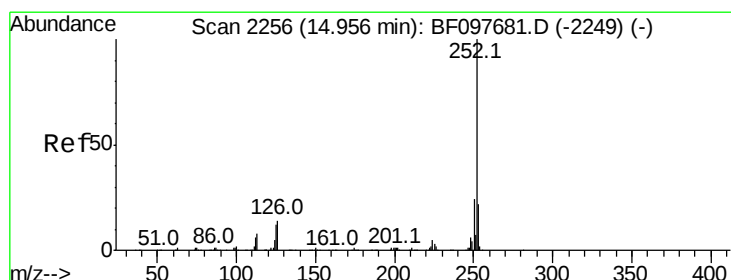
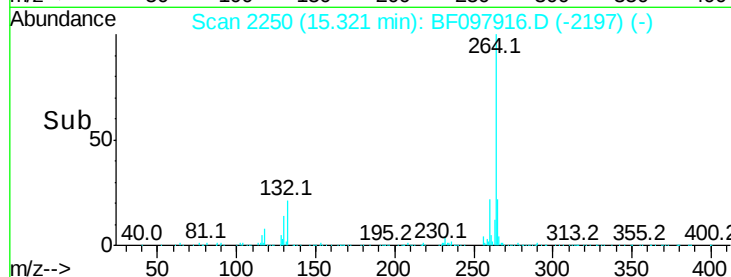
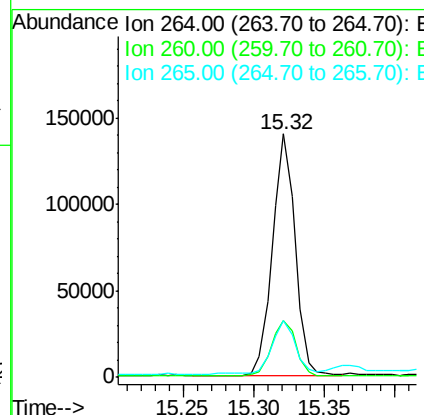
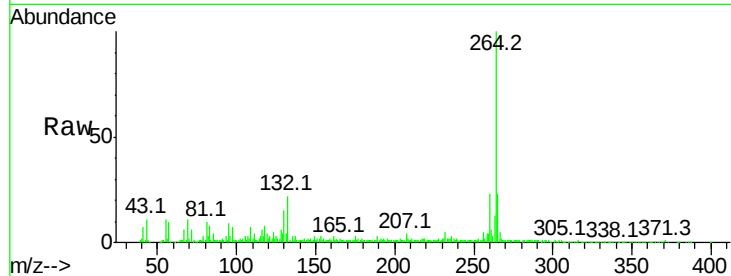
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2250
Delta R.T. 0.01 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Instrument :
BNA_F
ClientSampleId :
CL-02-081717-D

Tot Ion	Ratio	Resp Lower	Upper
264	100		
260	23.1	19.5	29.3
265	23.1	17.2	25.8

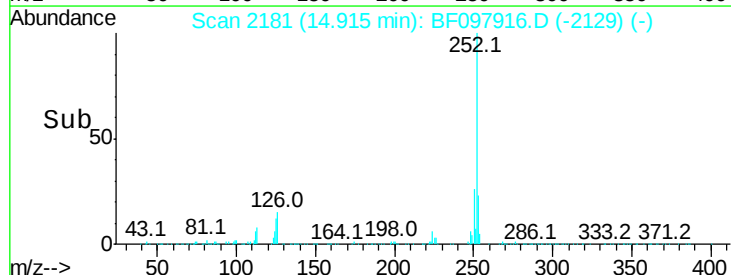
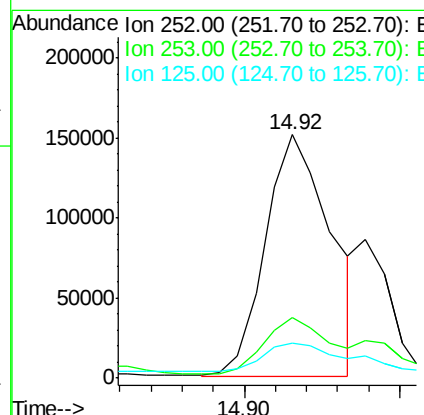
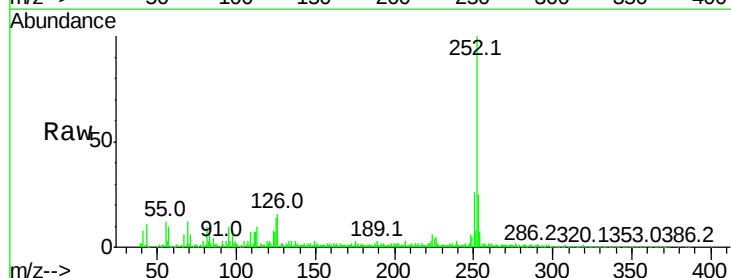
Manual Integrations
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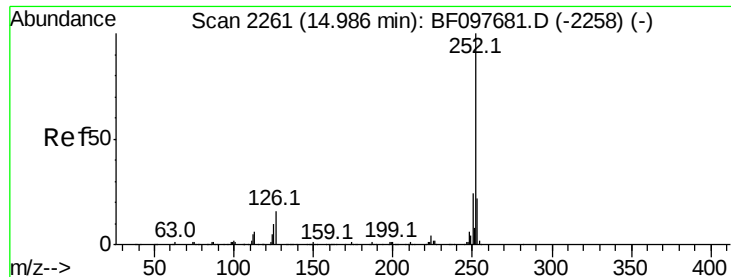
Sohil
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#87
Benzo(b)fluoranthene
Concen: 21.966 ng m
RT: 14.92 min Scan# 2181
Delta R.T. 0.01 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	24.8	18.1	27.1
125	14.3	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 6.628 ng/mL

RT: 14.94 min Scan# 2185

Delta R.T. 0.00 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Instrument :

BNA_F

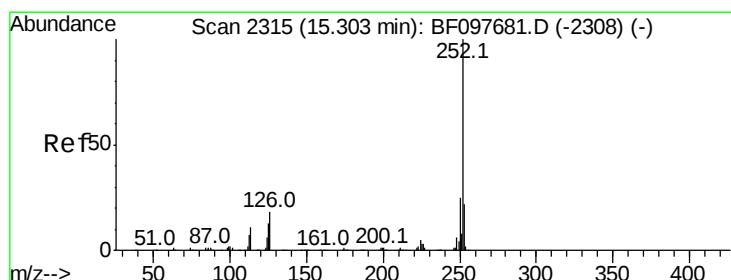
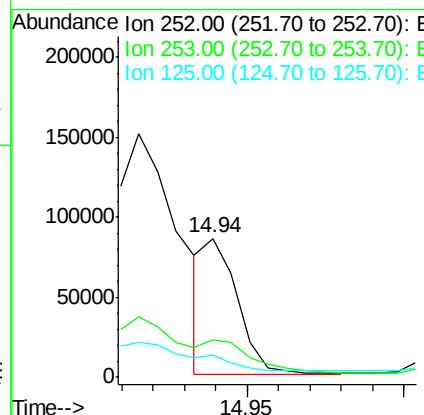
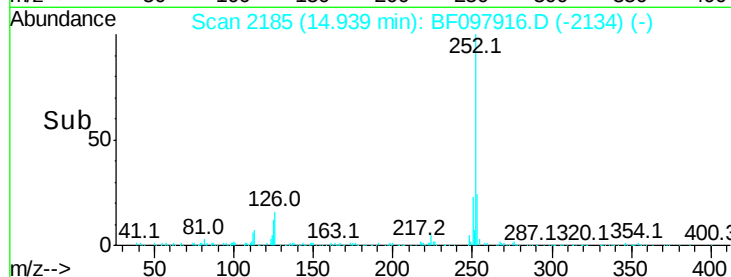
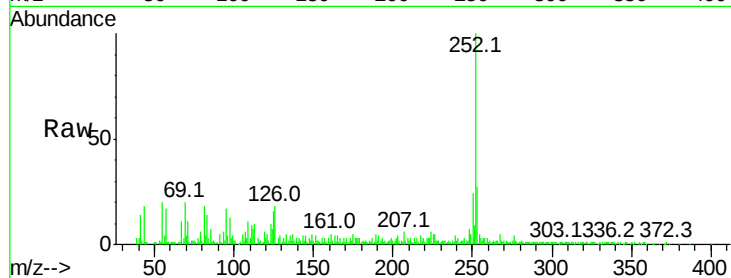
ClientSampleId :

CL-02-081717-D

Tot Ion:	252	Resp:	62772
Ion Ratio	Lower	Upper	
252	100		
253	27.0	18.4	27.6
125	16.0	13.1	19.7

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 18.859 ng/mL

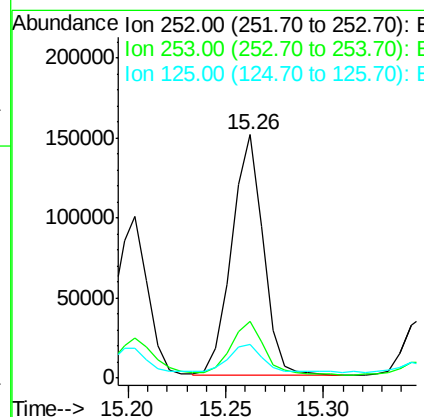
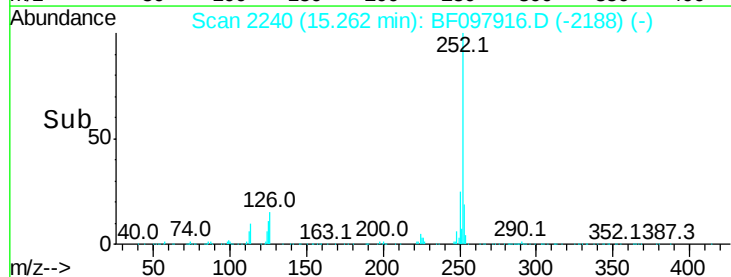
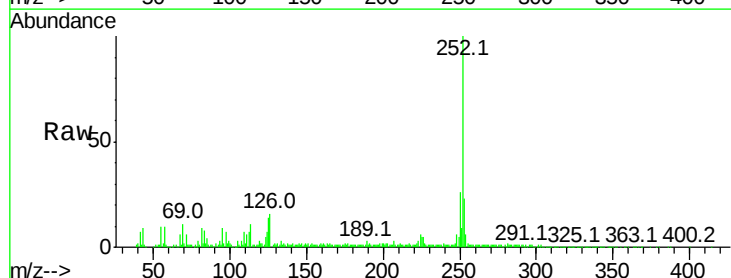
RT: 15.26 min Scan# 2240

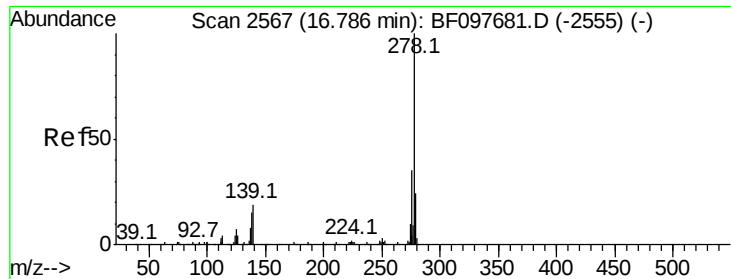
Delta R.T. 0.01 min

Lab File: BF097916.D

Acq: 21 Aug 2017 20:19

Tgt Ion:	252	Resp:	168288
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.5	26.3
125	13.6	11.0	16.4





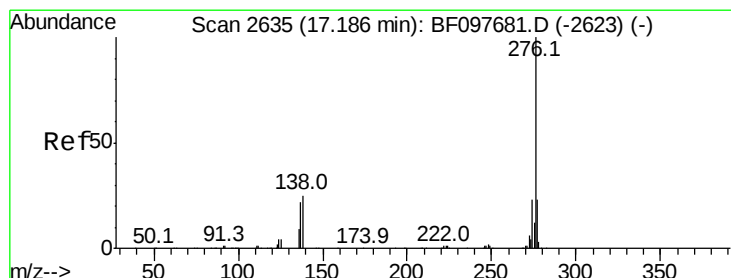
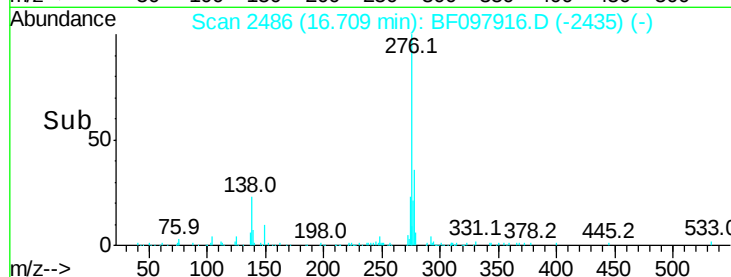
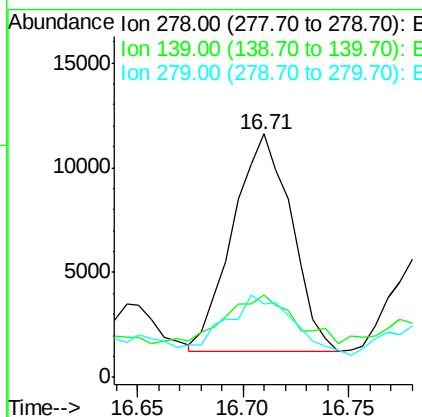
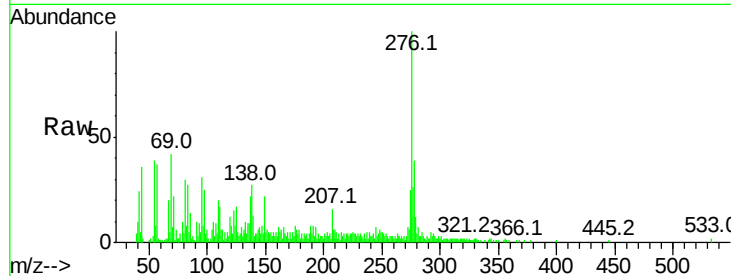
#90
Dibenzo(a,h)anthracene
Concen: 2.734 ng
RT: 16.71 min Scan# 2486
Delta R.T. 0.00 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Instrument :
BNA_F
ClientSampleId :
CL-02-081717-D

Tot Ion	Ratio	Lower	Upper
278	100		
139	33.6	16.6	24.8#
279	30.4	19.3	28.9#

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:35 PM



#91
Benzo(g,h,i)perylene
Concen: 11.067 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.01 min
Lab File: BF097916.D
Acq: 21 Aug 2017 20:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	27.5	25.4	38.0

