

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\
 Data File : BF099640.D
 Acq On : 19 Oct 2017 1:51
 Operator : SJ/JU
 Sample : I5935-04 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

Manual Integrations
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 10/19/2017 6:15:45 PM

Quant Time: Oct 19 17:03:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 18 22:24:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	92991	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	336681	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	125107	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	199817	20.00	ng	0.00
75) Chrysene-d12	14.00	240	187782	20.00	ng	0.00
86) Perylene-d12	15.47	264	147899	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	91981	15.75	ng	0.00
7) Phenol-d6	6.47	99	109972	15.26	ng	-0.01
23) Nitrobenzene-d5	7.39	82	59138	11.26	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	14924	14.58	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	111360	14.86	ng	0.00
78) Terphenyl-d14	12.93	244	84788	10.27	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.13	128	136393	8.626	ng	98
37) 2-Methylnaphthalene	8.82	142	239589	23.307	ng	98
45) 1,1'-Biphenyl	9.28	154	33114	3.080	ng	99
48) Acenaphthylene	9.73	152	135927	10.999	ng	# 96
51) Acenaphthene	9.90	154	37441	4.783	ng	# 88
57) Fluorene	10.41	166	169492	20.231	ng	99
70) Phenanthrene	11.38	178	828503	77.462	ng	99
71) Anthracene	11.43	178	202632	18.516	ng	99
74) Fluoranthene	12.57	202	560230	51.727	ng	98
77) Pyrene	12.80	202	797519	55.696	ng	99
80) Benzo(a)anthracene	13.99	228	350430m	30.819	ng	
82) Chrysene	14.03	228	366193m	33.827	ng	
85) Indeno(1,2,3-cd)pyrene	16.94	276	76012	8.778	ng	99
87) Benzo(b)fluoranthene	15.04	252	232068m	25.520	ng	
88) Benzo(k)fluoranthene	15.06	252	75059m	8.357	ng	
89) Benzo(a)pyrene	15.40	252	196559	23.548	ng	# 93
90) Dibenzo(a,h)anthracene	16.94	278	24646	3.689	ng	# 77
91) Benzo(g,h,i)perylene	17.40	276	78719	11.921	ng	93

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

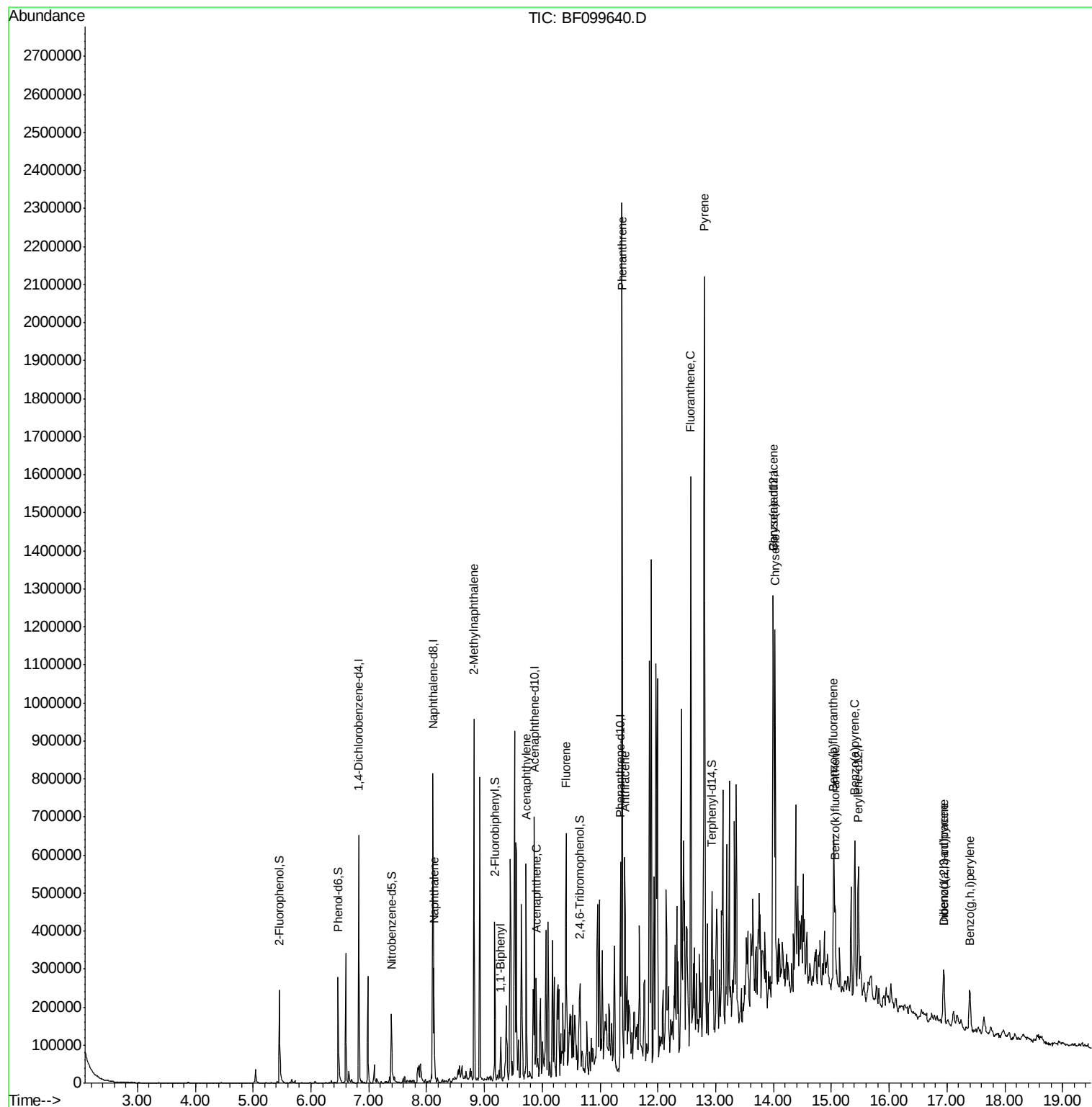
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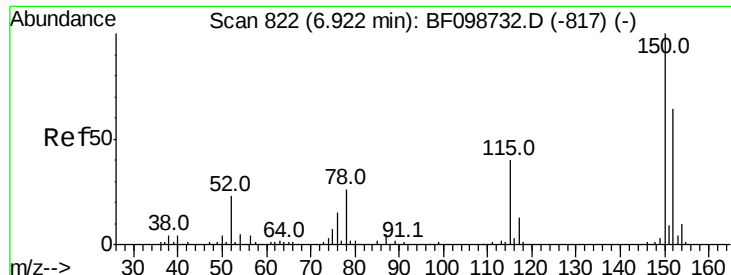
Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

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Quant Time: Oct 19 17:03:06 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

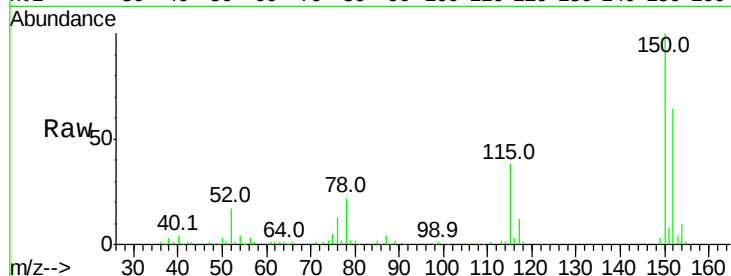
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

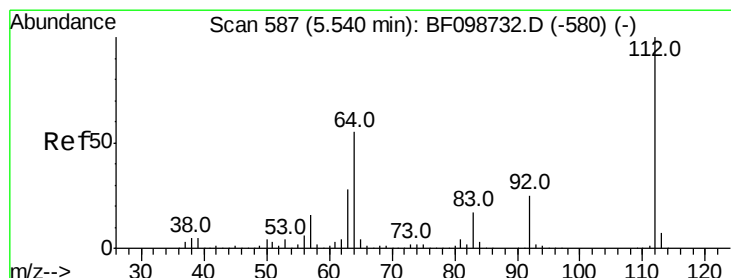
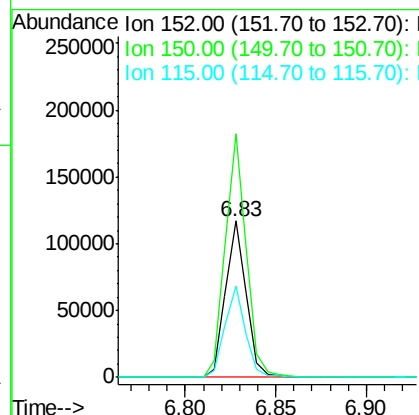
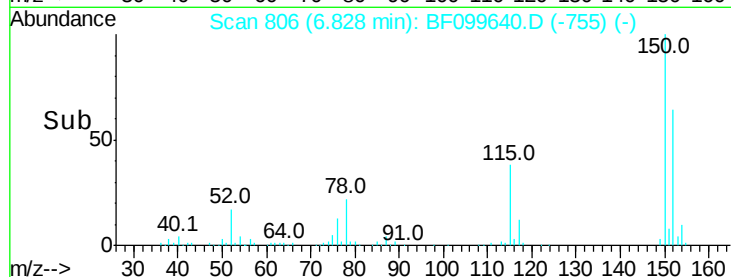
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.6	186.8
115	58.4	50.1	75.1

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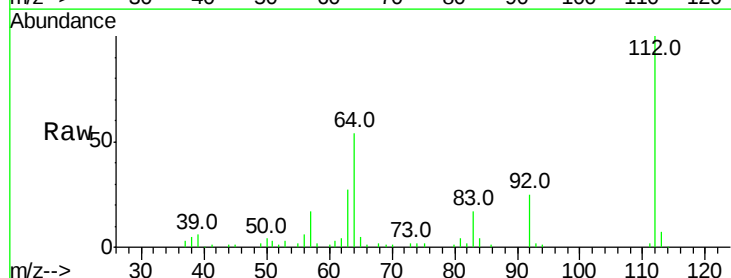
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



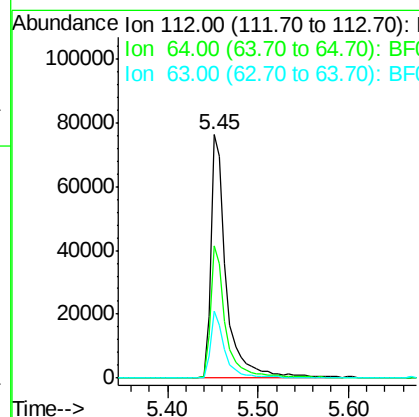
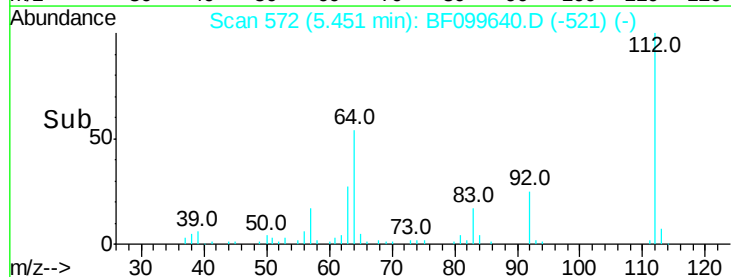
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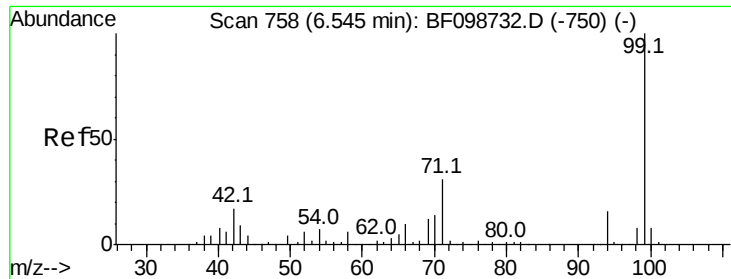
2-Fluorophenol
Concen: 15.746 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	47.9	71.9
63	27.3	23.7	35.5



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: 15.261 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

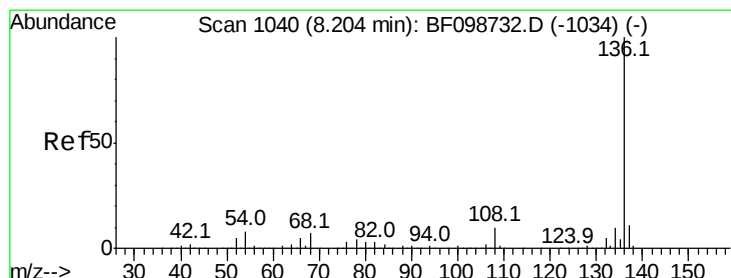
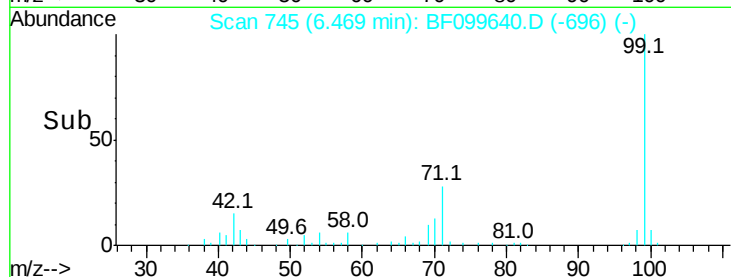
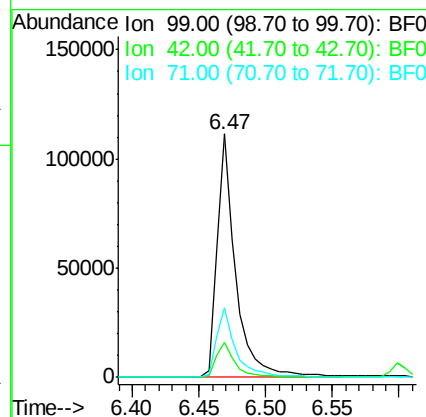
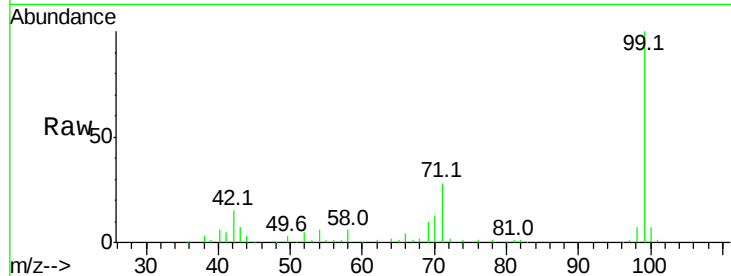
ClientSampleId :

CL-02-101617-B

Tot Ion:	99	Resp:	109972
Ion Ratio	Lower	Upper	
99	100		
42	14.5	14.5	21.7
71	28.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

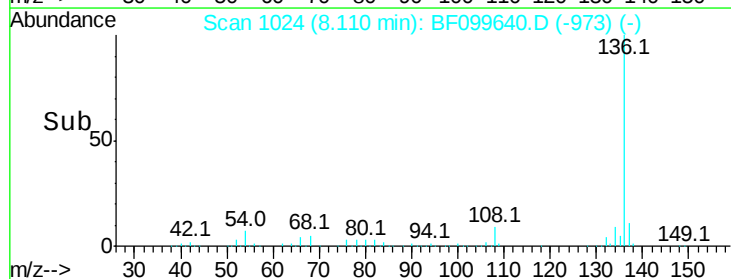
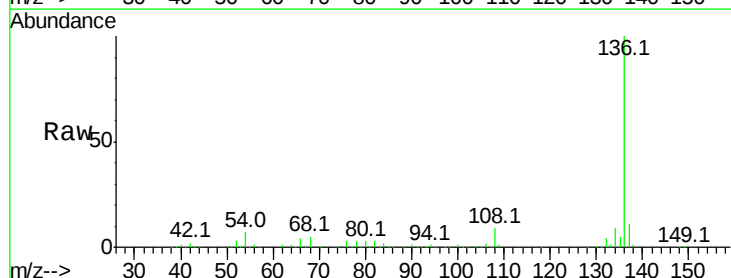
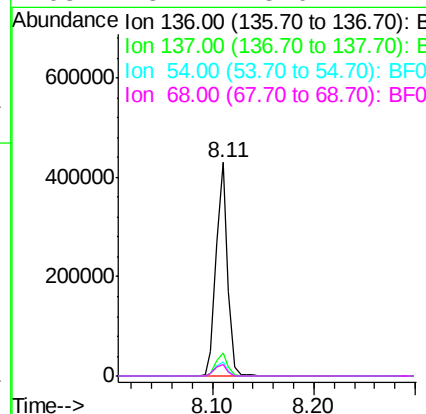
RT: 8.11 min Scan# 1024

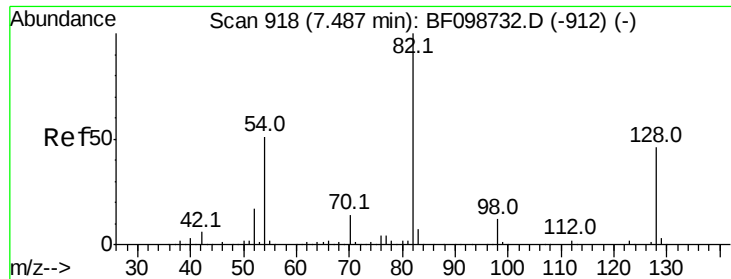
Delta R.T. 0.00 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:	136	Resp:	336681
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	6.7	6.6	9.8
68	5.4	5.0	7.4





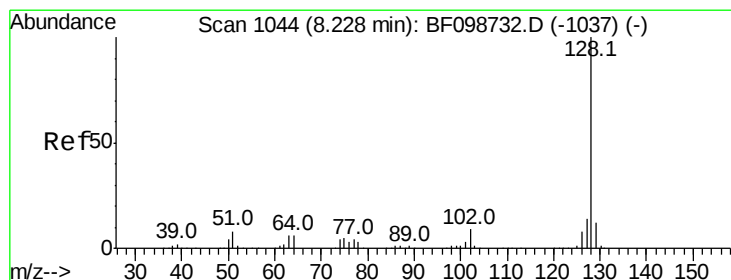
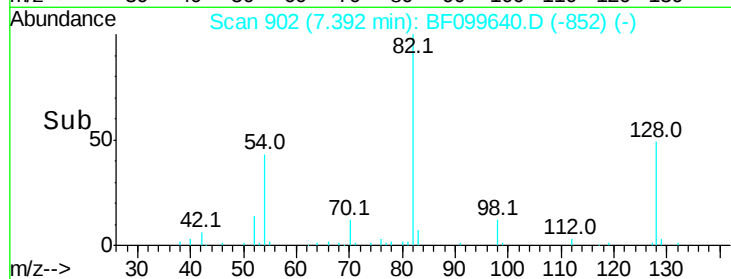
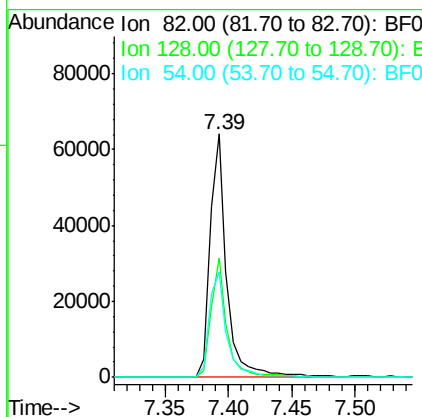
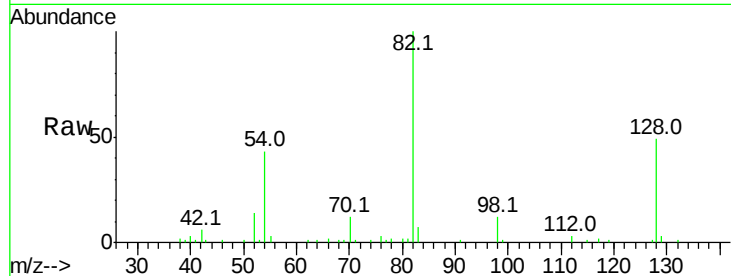
#23
 Nitrobenzene-d5
 Concen: 11.264 ng
 RT: 7.39 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.2	36.1	54.1
54	43.2	41.4	62.2

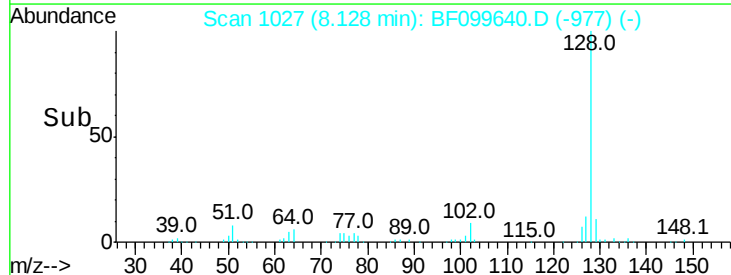
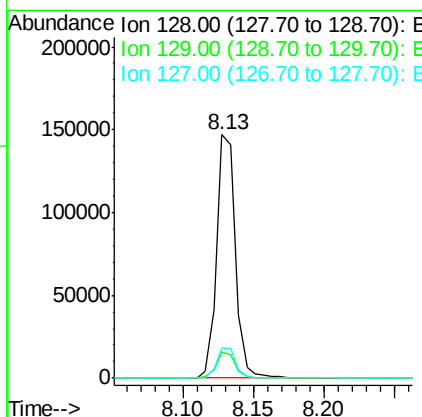
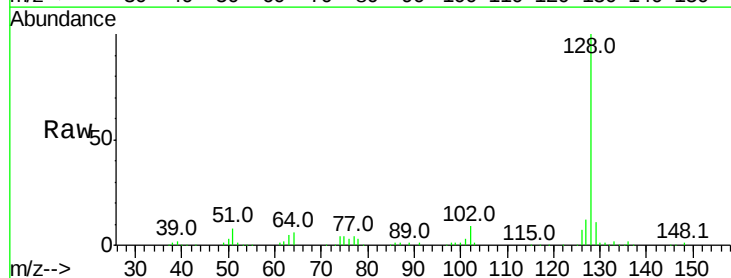
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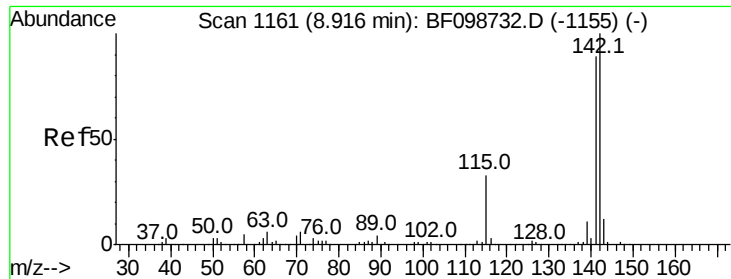
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#31
 Naphthalene
 Concen: 8.626 ng
 RT: 8.13 min Scan# 1027
 Delta R.T. -0.01 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.4	10.9	16.3





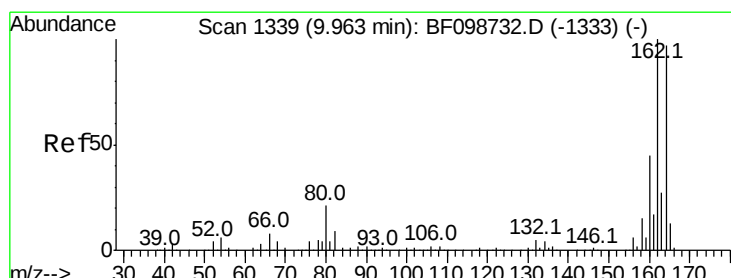
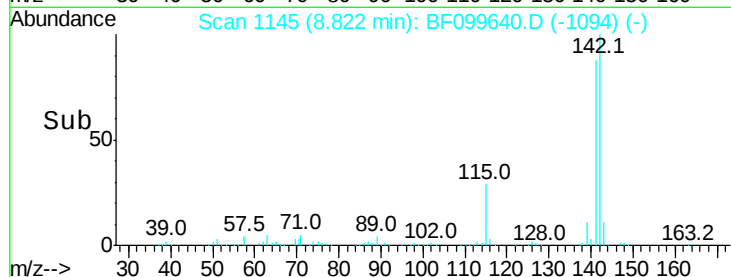
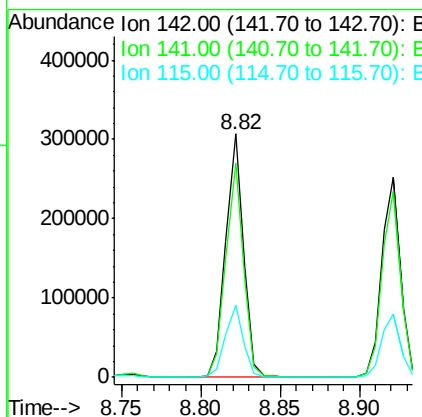
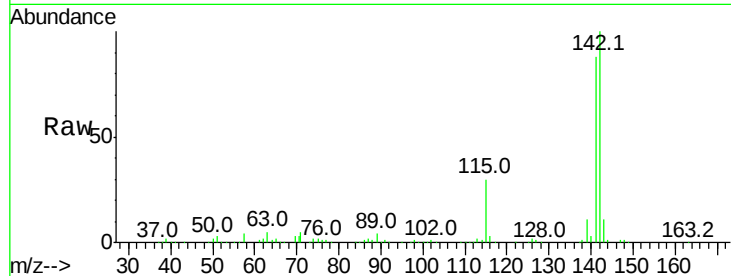
#37
2-Methylnaphthalene
Concen: 23.307 ng
RT: 8.82 min Scan# 1145
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

Tot Ion	Ratio	Resp	Lower	Upper
142	100	239589		
141	88.0		70.8	106.2
115	29.5		26.1	39.1

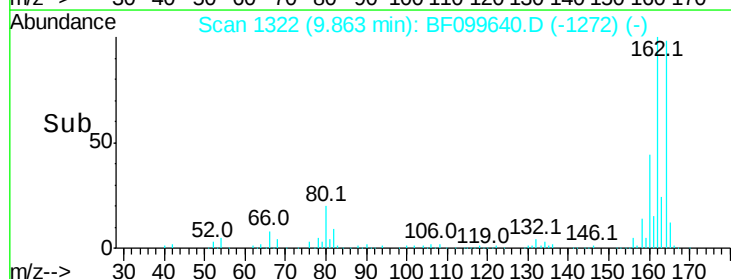
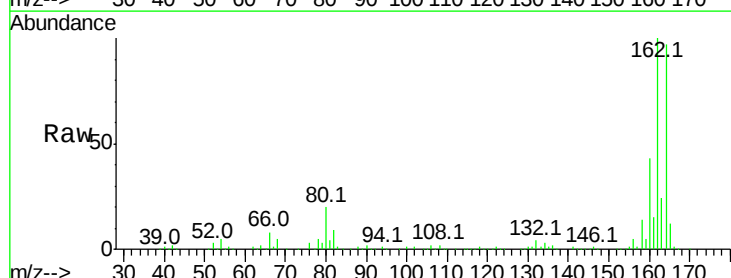
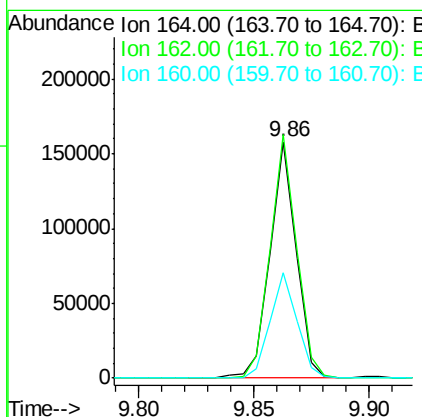
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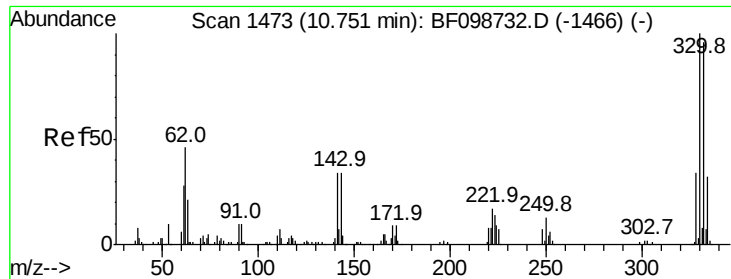
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	125107		
162	103.0		86.1	129.1
160	44.7		38.3	57.5





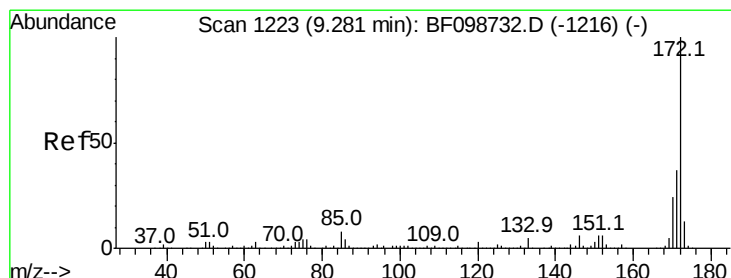
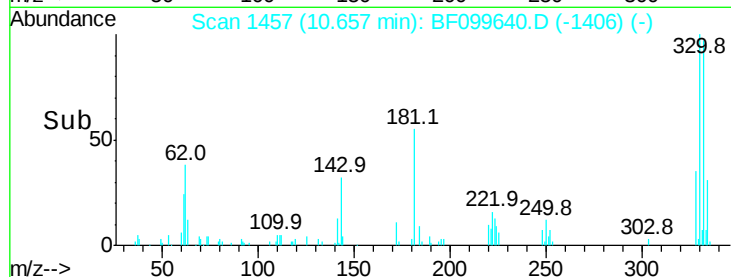
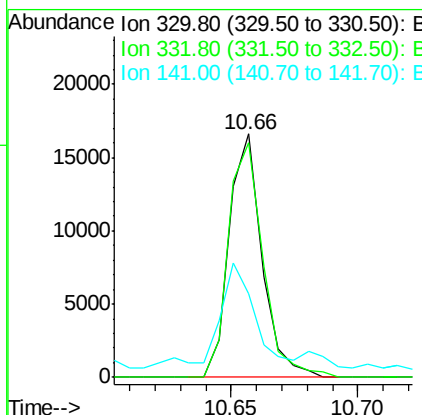
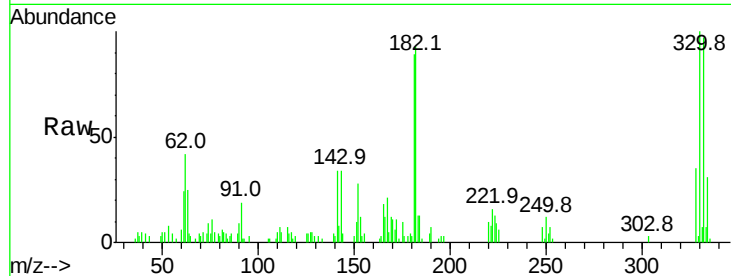
#41
 2,4,6-Tribromophenol
 Concen: 14.578 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.0	115.6
141	48.2	29.9	44.9

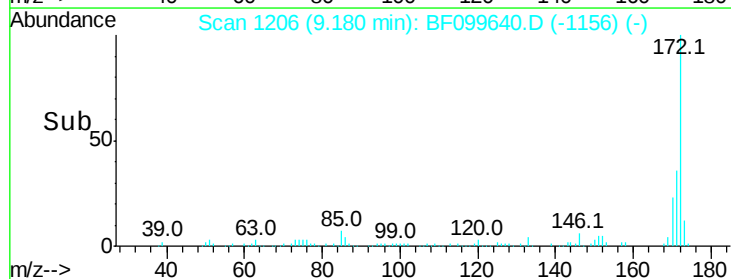
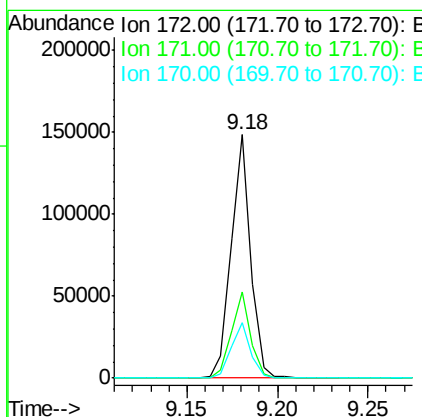
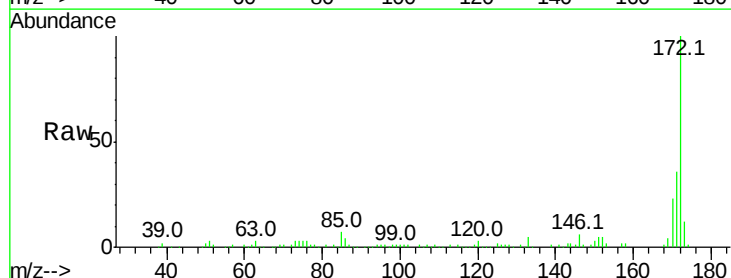
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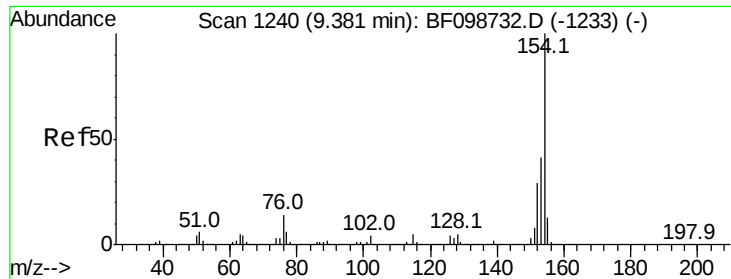
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#44
 2-Fluorobiphenyl
 Concen: 14.860 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	23.0	19.6	29.4





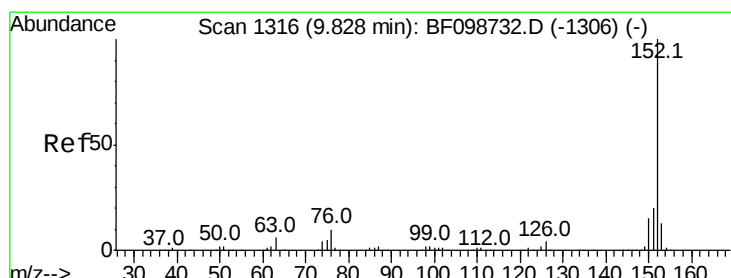
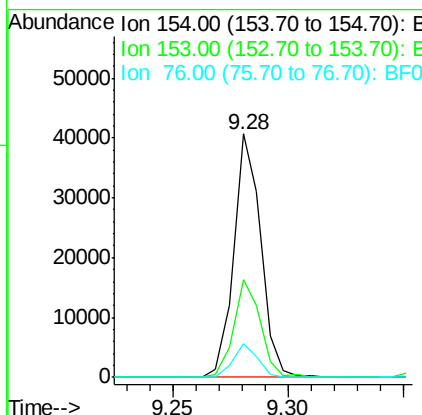
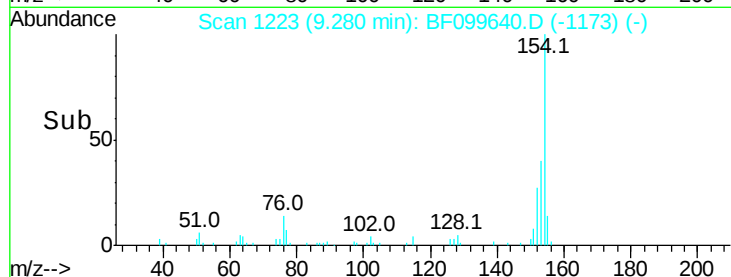
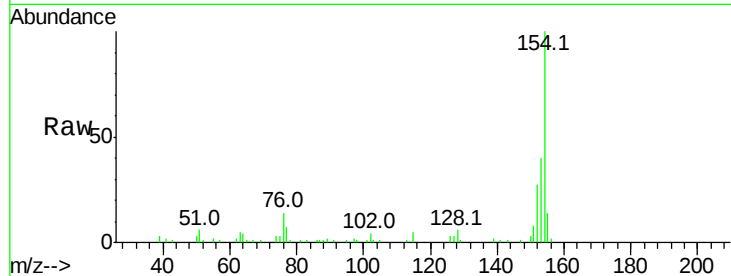
#45
1,1'-Biphenyl
Concen: 3.080 ng
RT: 9.28 min Scan# 1223
Delta R.T. -0.01 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.4	21.3	61.3	
76	14.0	0.0	34.0	

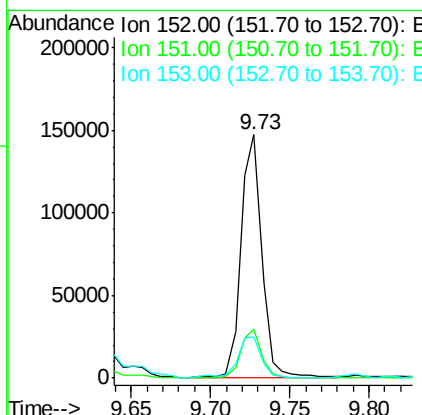
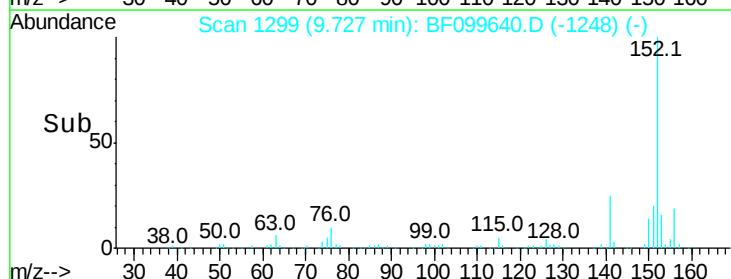
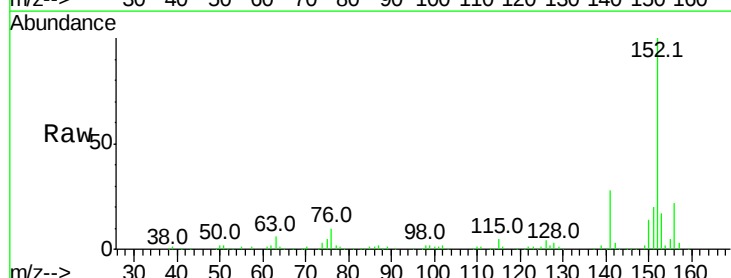
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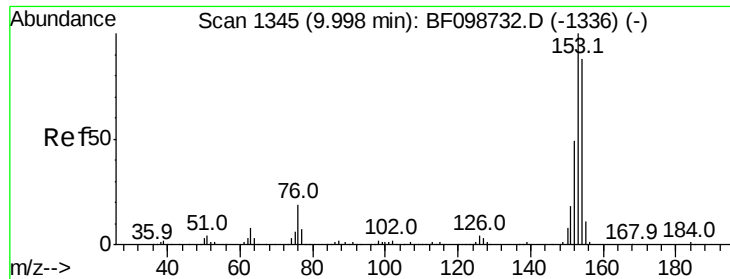
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#48
Acenaphthylene
Concen: 10.999 ng
RT: 9.73 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	20.2	16.3	24.5	
153	16.8	10.7	16.1#	





#51

Acenaphthene

Concen: 4.783 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

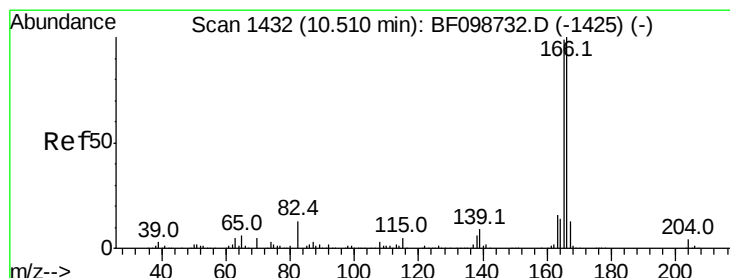
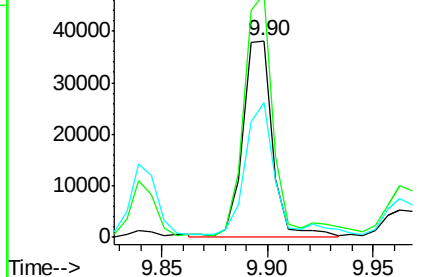
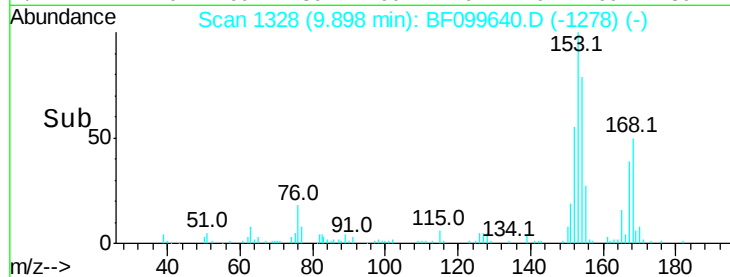
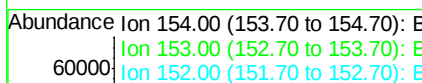
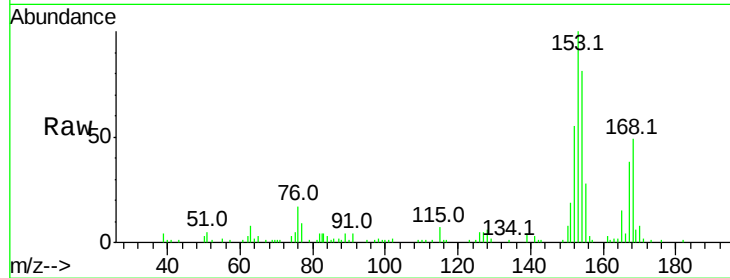
ClientSampleId :

CL-02-101617-B

Tot Ion:	154	Resp:	37441
Ion Ratio	Lower	Upper	
154	100		
153	123.8	91.2	136.8
152	68.7	43.8	65.8#

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#57

Fluorene

Concen: 20.231 ng

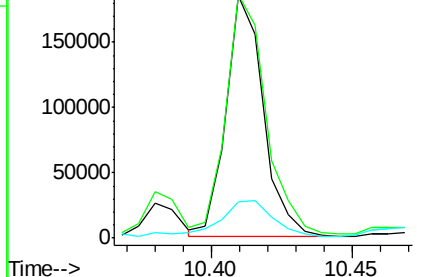
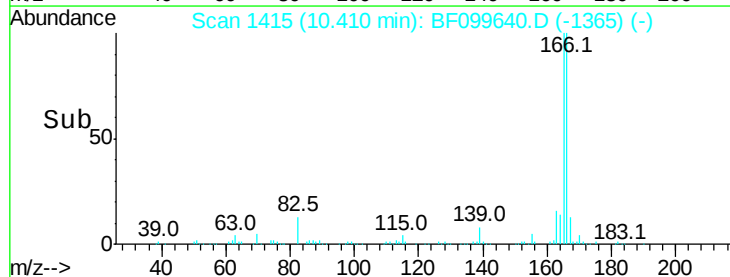
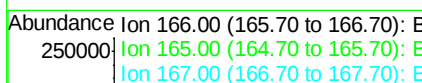
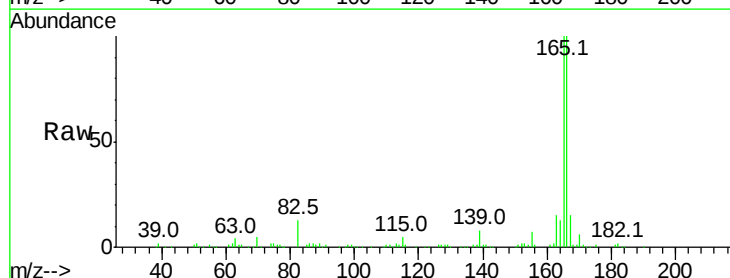
RT: 10.41 min Scan# 1415

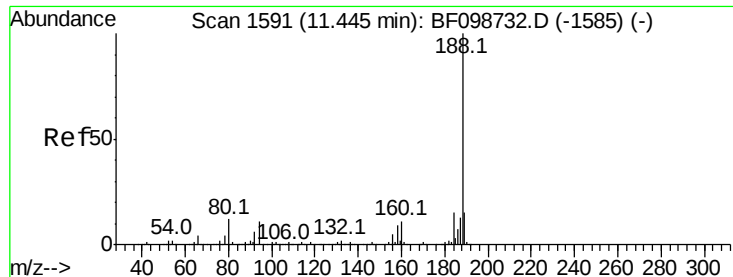
Delta R.T. -0.01 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:	166	Resp:	169492
Ion Ratio	Lower	Upper	
166	100		
165	100.2	79.8	119.8
167	14.9	10.6	16.0





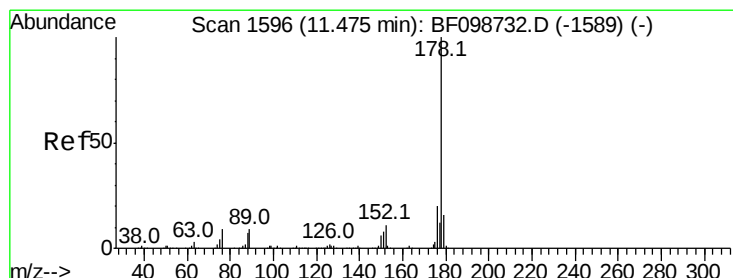
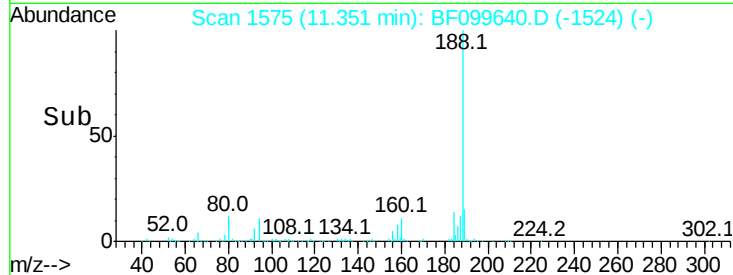
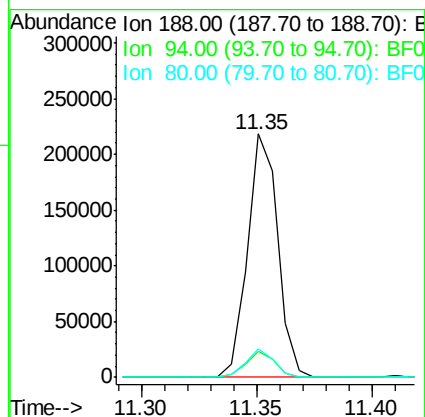
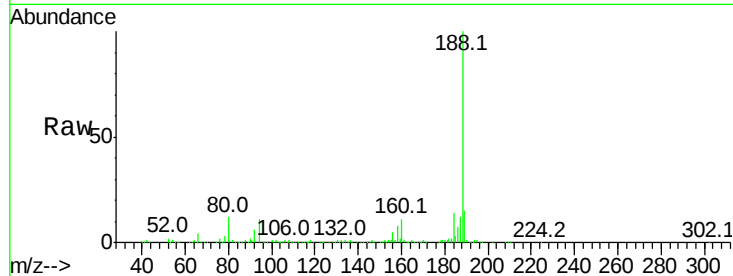
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

Tot Ion:188	Resp: 199817
Ion Ratio	Lower Upper
188 100	
94 10.7	8.5 12.7
80 12.0	9.2 13.8

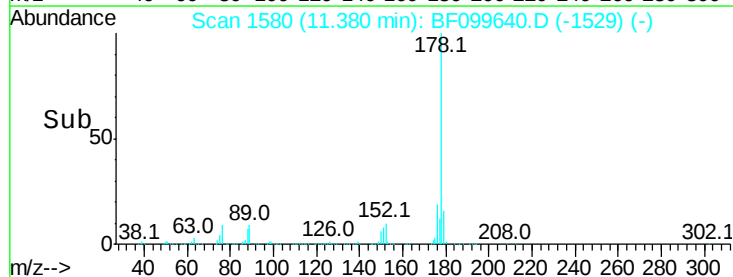
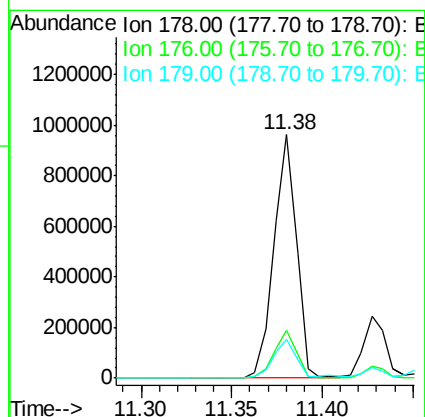
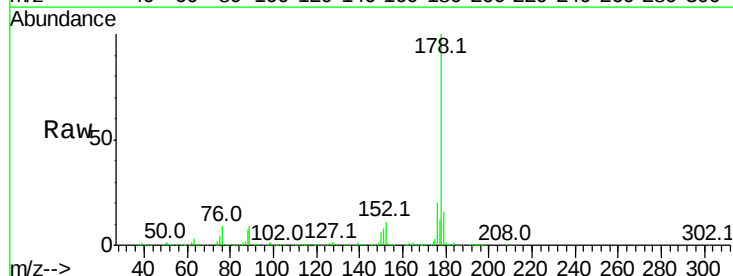
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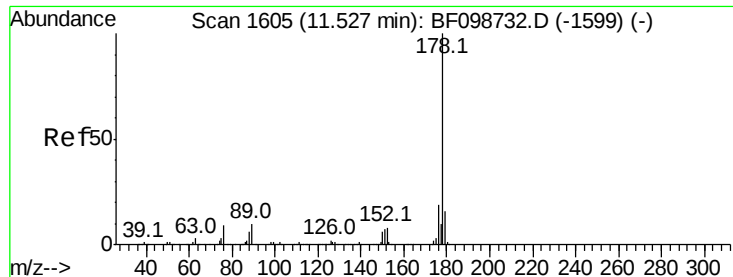
Sohil
10/19/2017 6:15:45 PM



#70
Phenanthrene
Concen: 77.462 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion:178	Resp: 828503
Ion Ratio	Lower Upper
178 100	
176 19.5	15.8 23.8
179 16.1	13.0 19.6





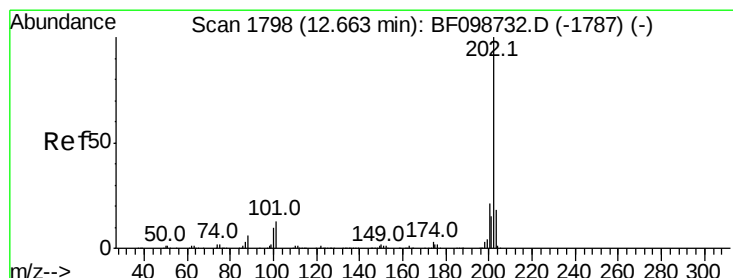
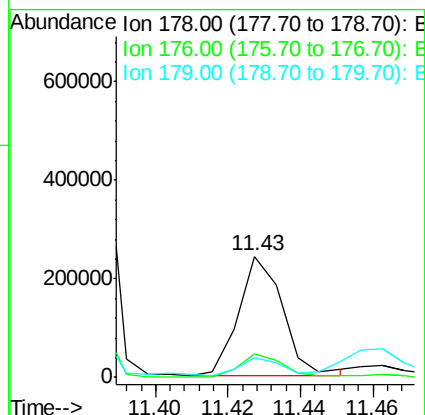
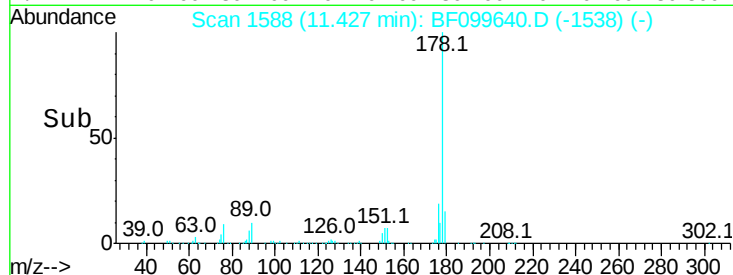
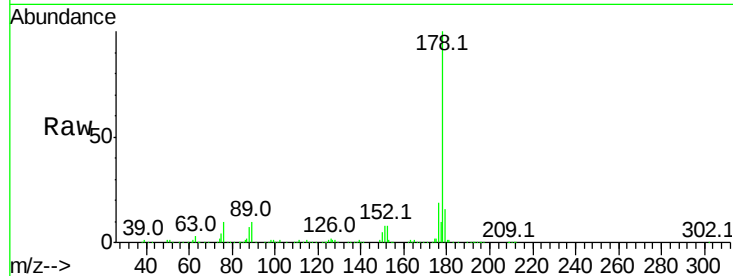
#71
 Anthracene
 Concen: 18.516 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-101617-B

Tot Ion:	178	Resp:	202632
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.4	23.2
179	16.3	12.6	19.0

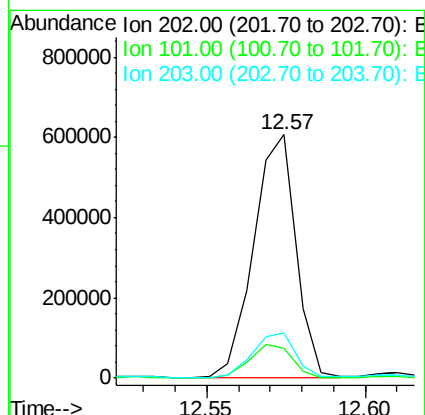
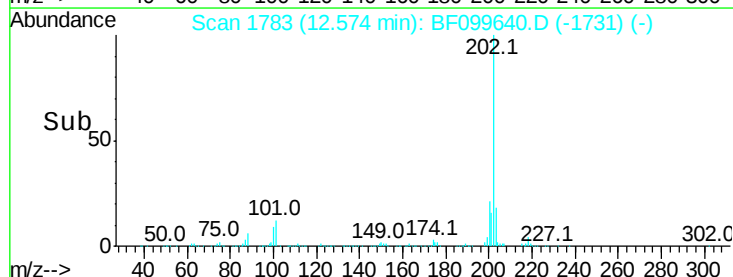
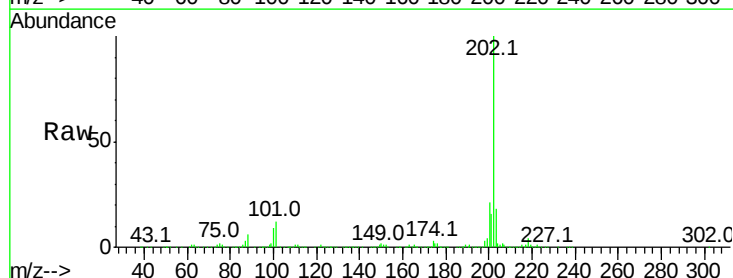
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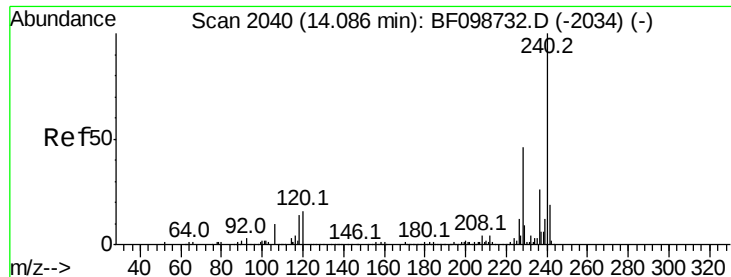
Sohil
 10/19/2017 6:15:45 PM



#74
 Fluoranthene
 Concen: 51.727 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF099640.D
 Acq: 19 Oct 2017 1:51

Tgt Ion:	202	Resp:	560230
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	34.1
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

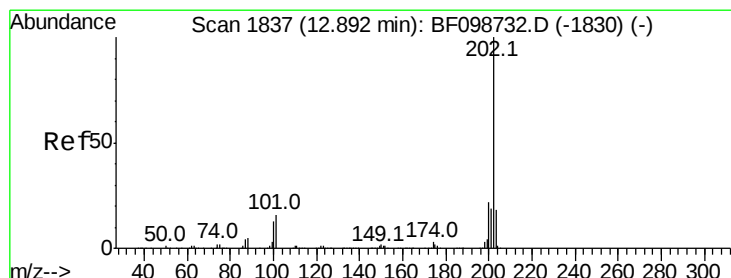
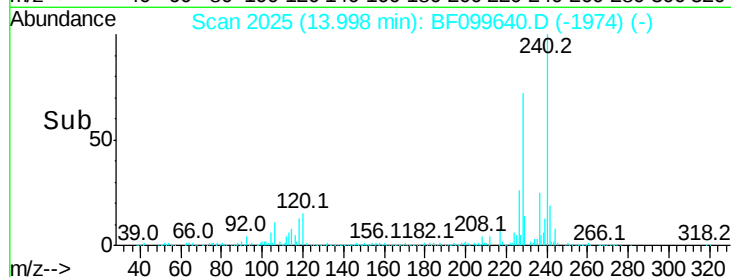
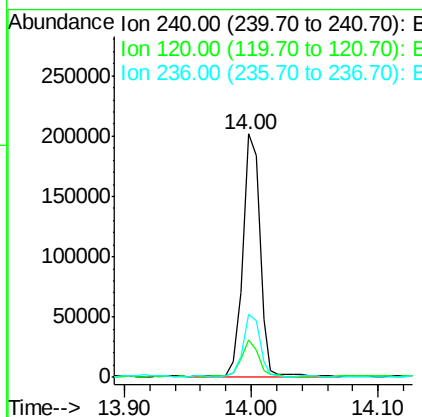
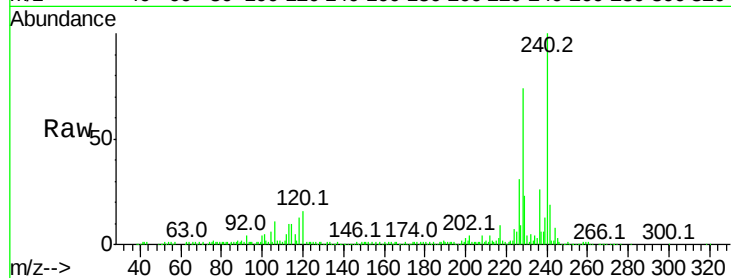
ClientSampleId :

CL-02-101617-B

Tot Ion:	240	Resp:	187782
Ion Ratio	Lower	Upper	
240	100		
120	15.6	9.5	14.3#
236	25.7	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 55.696 ng

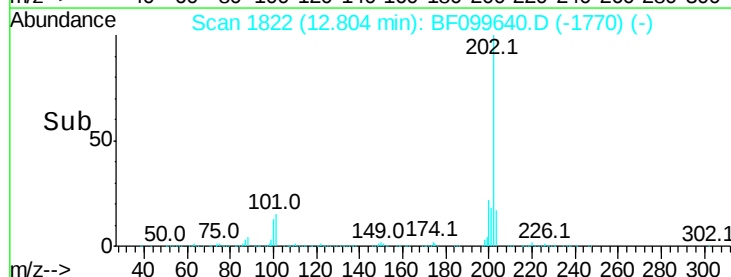
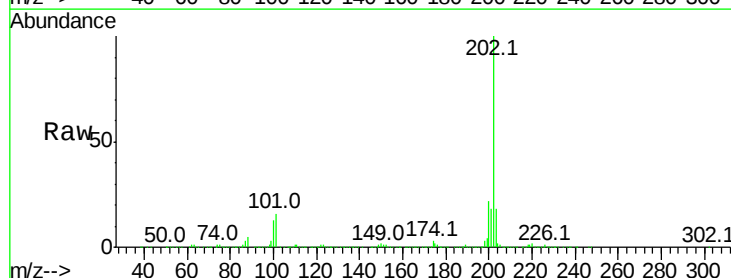
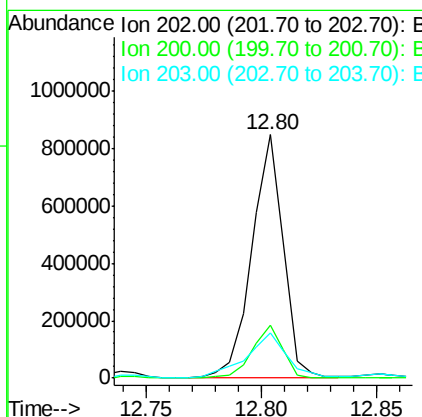
RT: 12.80 min Scan# 1822

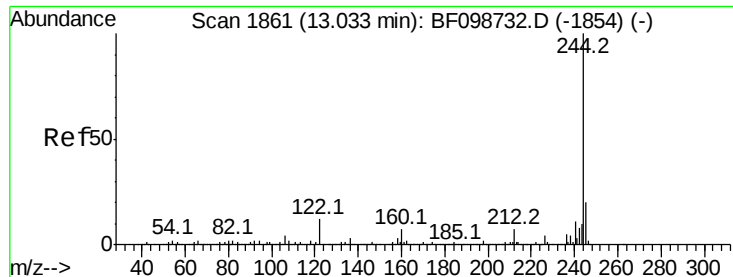
Delta R.T. 0.01 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:	202	Resp:	797519
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	18.3	14.3	21.5





#78

Terphenyl-d14

Concen: 10.269 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

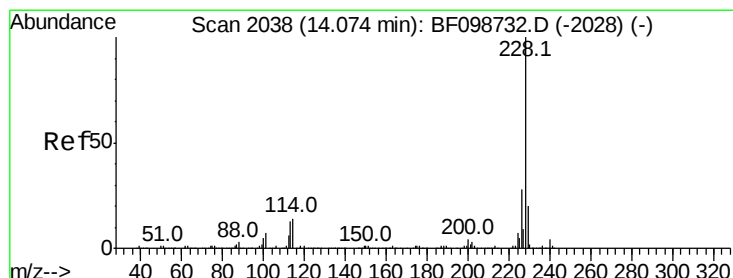
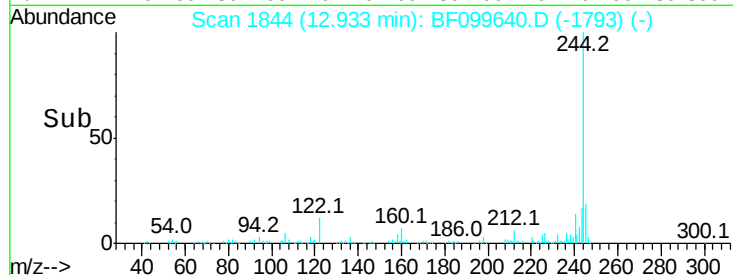
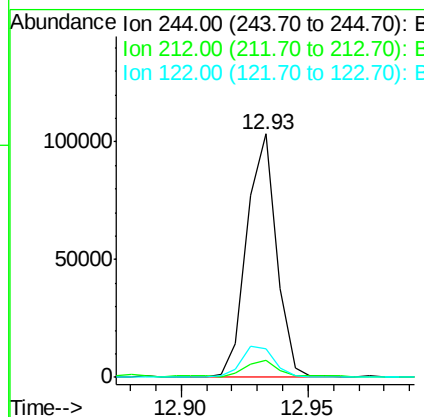
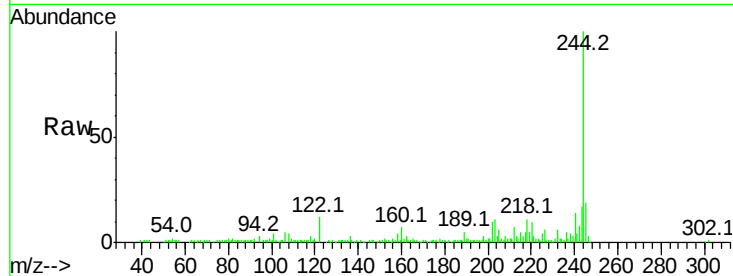
ClientSampleId :

CL-02-101617-B

Tot Ion:	244	Resp:	84788
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.4	8.0
122	12.0	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 30.819 ng m

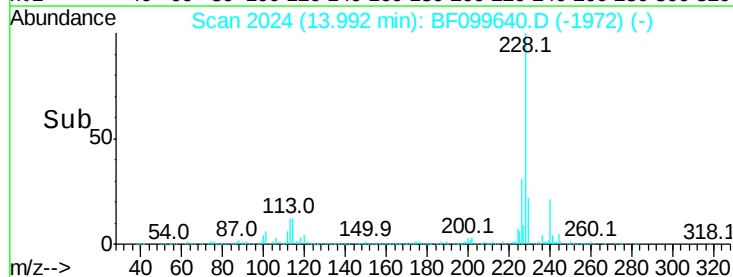
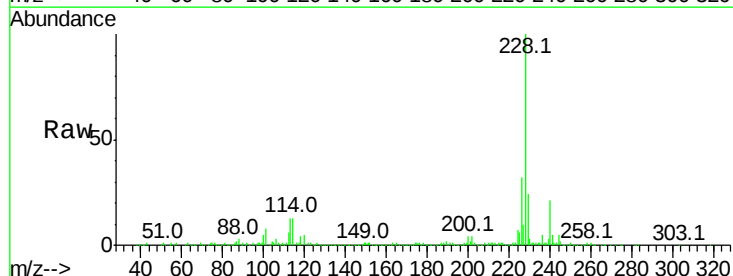
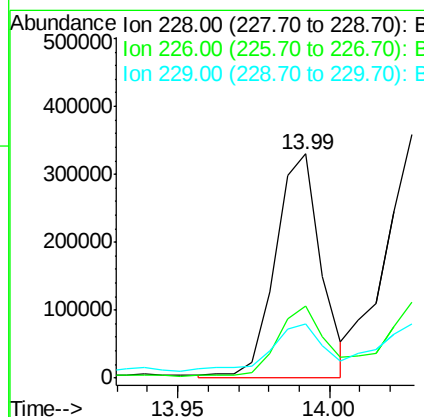
RT: 13.99 min Scan# 2024

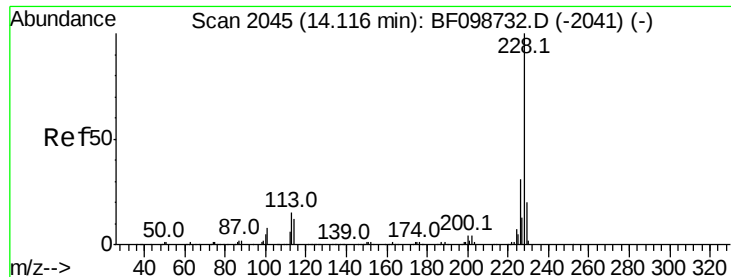
Delta R.T. 0.01 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:	228	Resp:	350430
Ion Ratio	Lower	Upper	
228	100		
226	32.0	22.6	33.8
229	24.2	15.8	23.6#





#82

Chrysene

Concen: 33.827 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Instrument :

BNA_F

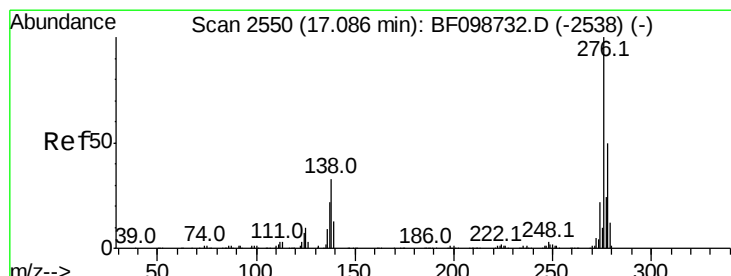
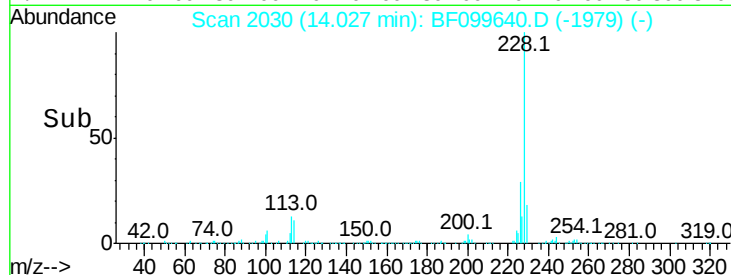
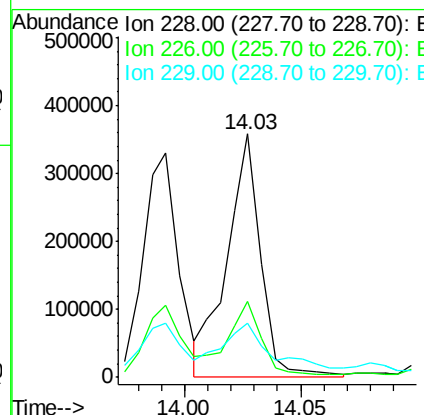
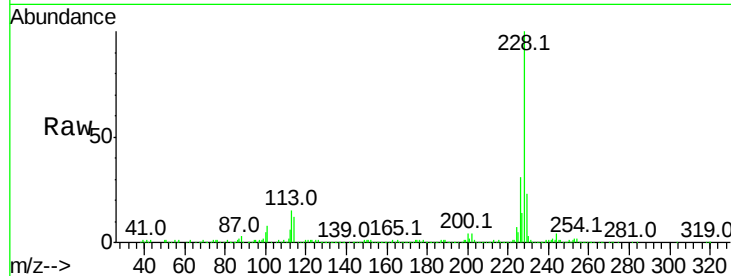
ClientSampleId :

CL-02-101617-B

Tot Ion:	228	Resp:	366193
Ion Ratio	Lower	Upper	
228	100		
226	31.2	25.0	37.6
229	22.5	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.778 ng

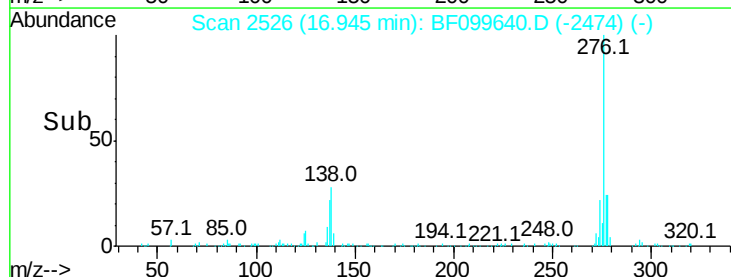
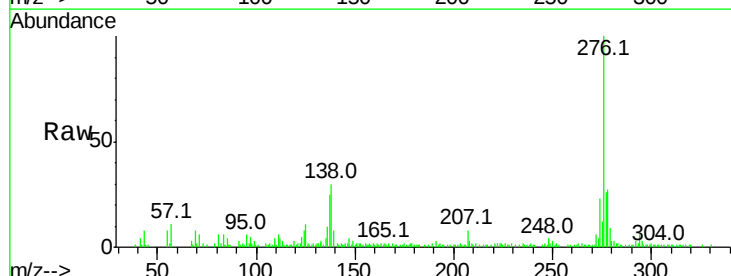
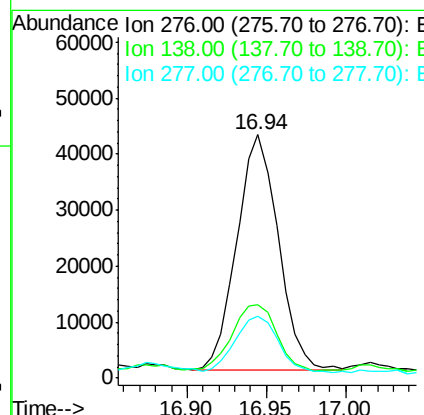
RT: 16.94 min Scan# 2526

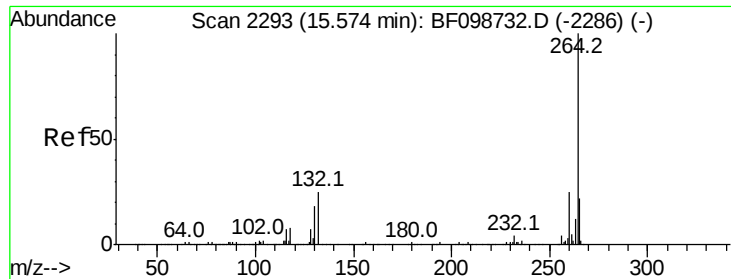
Delta R.T. 0.01 min

Lab File: BF099640.D

Acq: 19 Oct 2017 1:51

Tgt Ion:	276	Resp:	76012
Ion Ratio	Lower	Upper	
276	100		
138	30.6	25.0	37.6
277	25.2	20.1	30.1





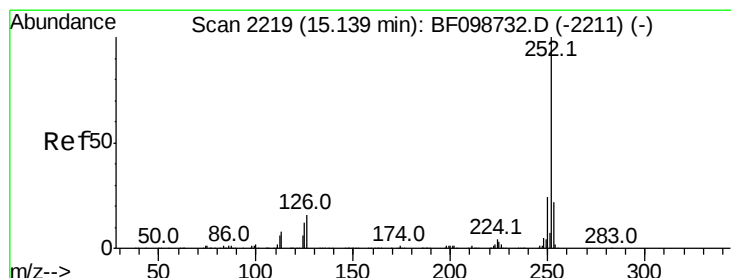
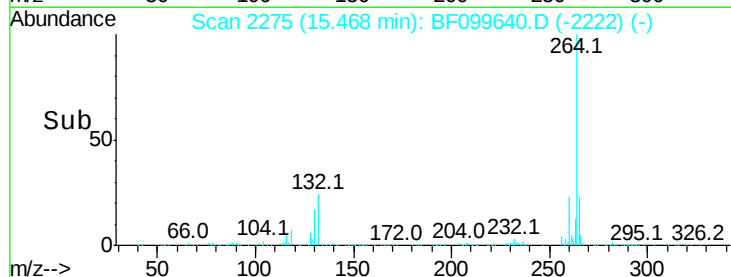
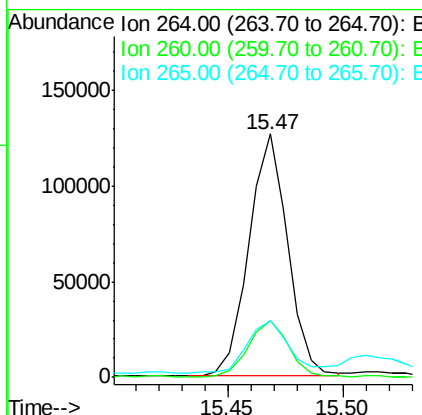
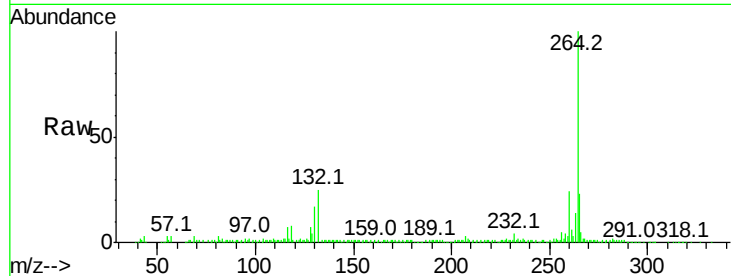
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	23.3	17.5	26.3

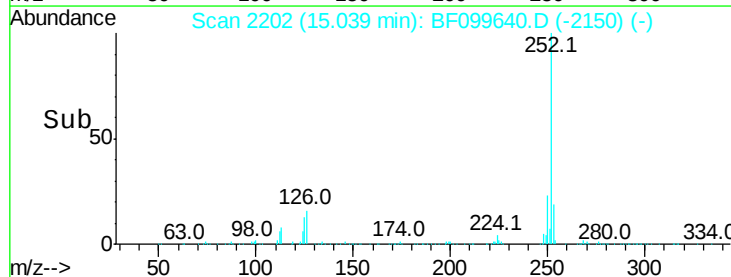
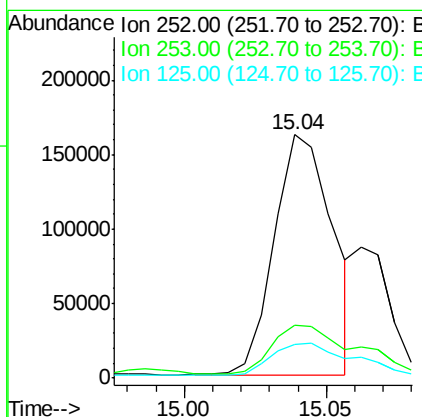
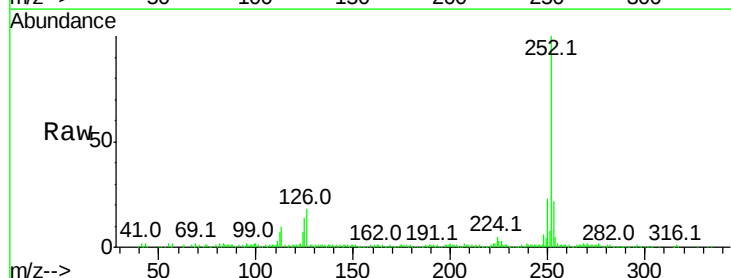
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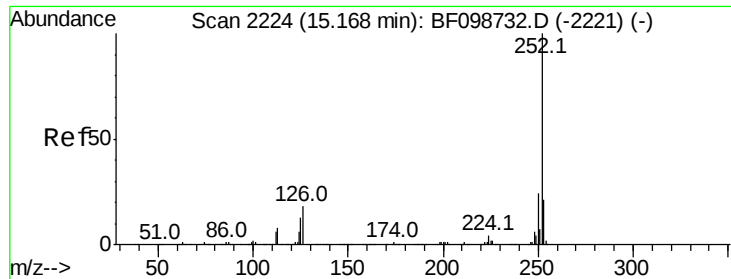
Sohil
10/19/2017 6:15:45 PM



#87
Benzo(b)fluoranthene
Concen: 25.520 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.0	25.6
125	14.0	9.0	13.6





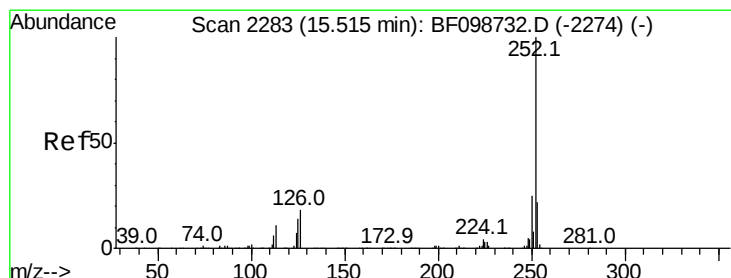
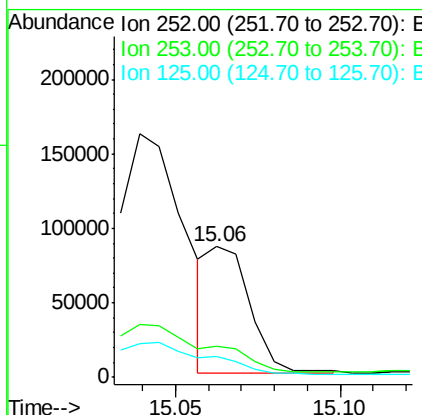
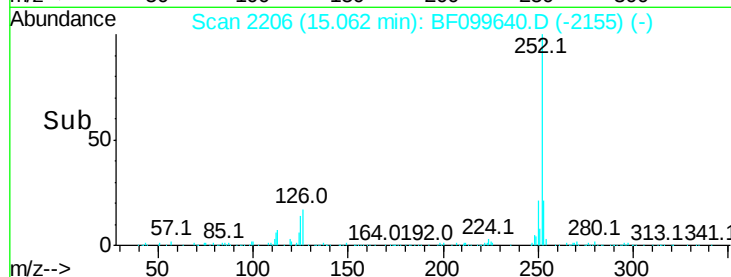
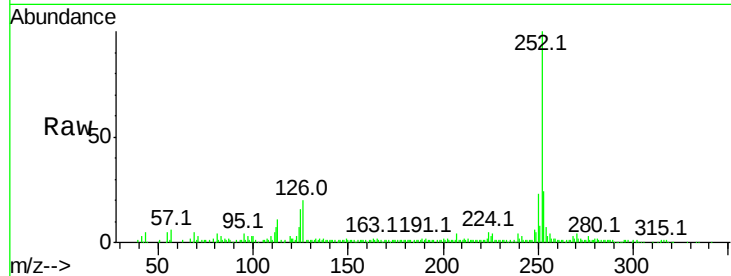
#88
Benzo(k)fluoranthene
Concen: 8.357 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	16.0	10.2	15.2

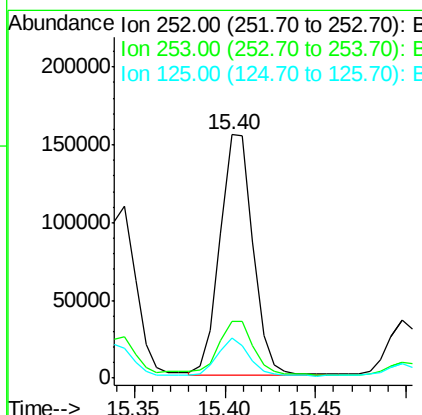
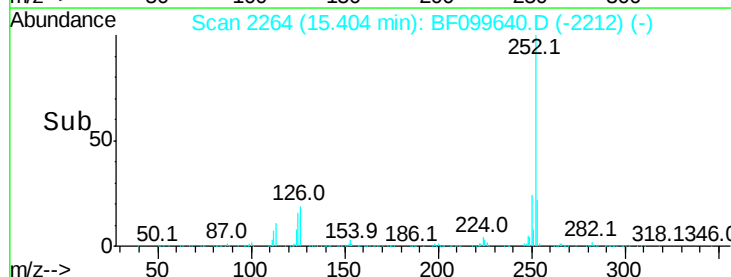
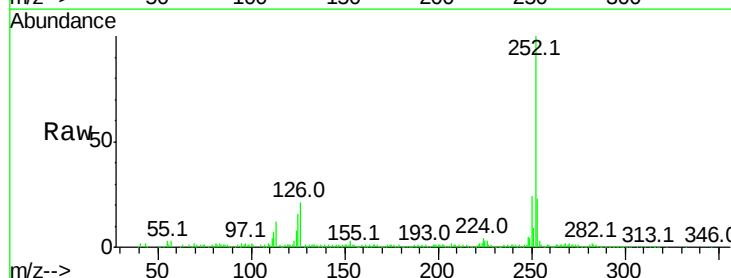
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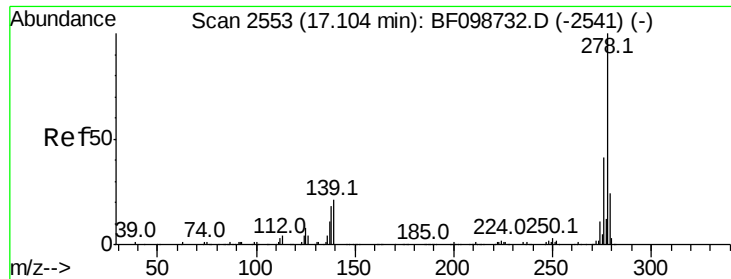
Sohil
10/19/2017 6:15:45 PM



#89
Benzo(a)pyrene
Concen: 23.548 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.01 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	16.3	9.8	14.6





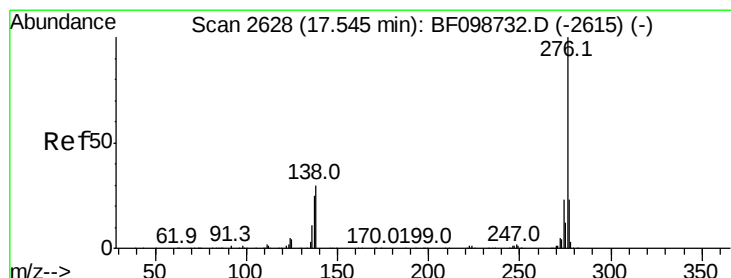
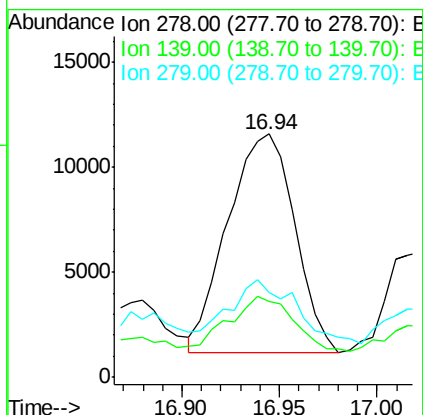
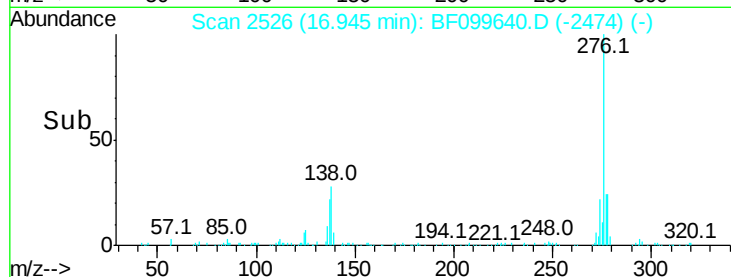
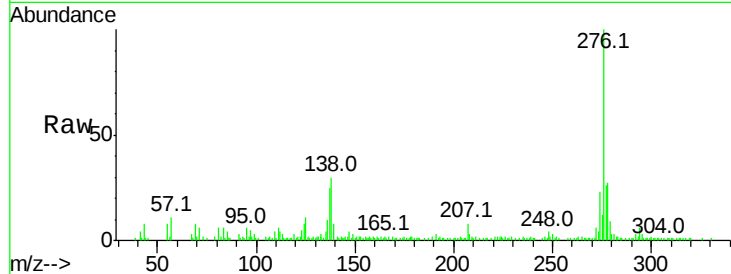
#90
Dibenzo(a,h)anthracene
Concen: 3.689 ng
RT: 16.94 min Scan# 2526
Delta R.T. 0.01 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Instrument :
BNA_F
ClientSampleId :
CL-02-101617-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	31.3	15.9	23.9#
279	34.7	19.0	28.4#

Manual Integrations
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10/19/2017 6:15:45 PM



#91
Benzo(g,h,i)perylene
Concen: 11.921 ng
RT: 17.40 min Scan# 2603
Delta R.T. 0.02 min
Lab File: BF099640.D
Acq: 19 Oct 2017 1:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	17.9	26.9
138	31.2	21.8	32.8

