

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062817\
 Data File : BF096279.D
 Acq On : 29 Jun 2017 5:59
 Operator : SJ/MA
 Sample : I3928-02 20X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Q7-BASE

Manual Integrations
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 6/29/2017 6:00:17 PM

Quant Time: Jun 29 08:01:16 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	131382	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	502260	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	203427	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	337651	20.00	ng	0.01
75) Chrysene-d12	13.94	240	267785	20.00	ng	0.02
86) Perylene-d12	15.36	264	215297	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	62226	6.82	ng	0.00
7) Phenol-d6	6.40	99	74019	6.70	ng	0.01
23) Nitrobenzene-d5	7.33	82	33908	4.67	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	11640	7.27	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	54302	4.89	ng	-0.01
78) Terphenyl-d14	12.88	244	45037	4.20	ng	0.01

Target Compounds					Qvalue	
14) 1,2-Dichlorobenzene	6.95	146	31944	3.54	ng	96
31) Naphthalene	8.09	128	401756	16.60	ng	99
37) 2-Methylnaphthalene	8.78	142	701839	44.63	ng	98
45) 1,1'-Biphenyl	9.24	154	66370	4.25	ng	95
51) Acenaphthene	9.85	154	208171	16.46	ng	96
54) Dibenzofuran	10.02	168	94231	5.71	ng	# 74
57) Fluorene	10.36	166	249976	17.14	ng	96
70) Phenanthrene	11.33	178	2565163	173.38	ng	100
71) Anthracene	11.37	178	809555	42.90	ng	98
72) Carbazole	11.52	167	153709	7.38	ng	99
74) Fluoranthene	12.52	202	1627313	86.76	ng	96
77) Pyrene	12.75	202	2314896	105.19	ng	99
80) Benzo(a)anthracene	13.93	228	1235808	75.71	ng	96
82) Chrysene	13.97	228	1188968	70.42	ng	98
85) Indeno(1,2,3-cd)pyrene	16.76	276	212767	15.18	ng	97
87) Benzo(b)fluoranthene	14.96	252	692937m	48.99	ng	
88) Benzo(k)fluoranthene	14.98	252	151016m	11.70	ng	
89) Benzo(a)pyrene	15.30	252	543402	43.50	ng	96
90) Dibenzo(a,h)anthracene	16.77	278	78977	8.07	ng	# 89
91) Benzo(a,h,i)perylene	17.18	276	230516	22.67	ng	99

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

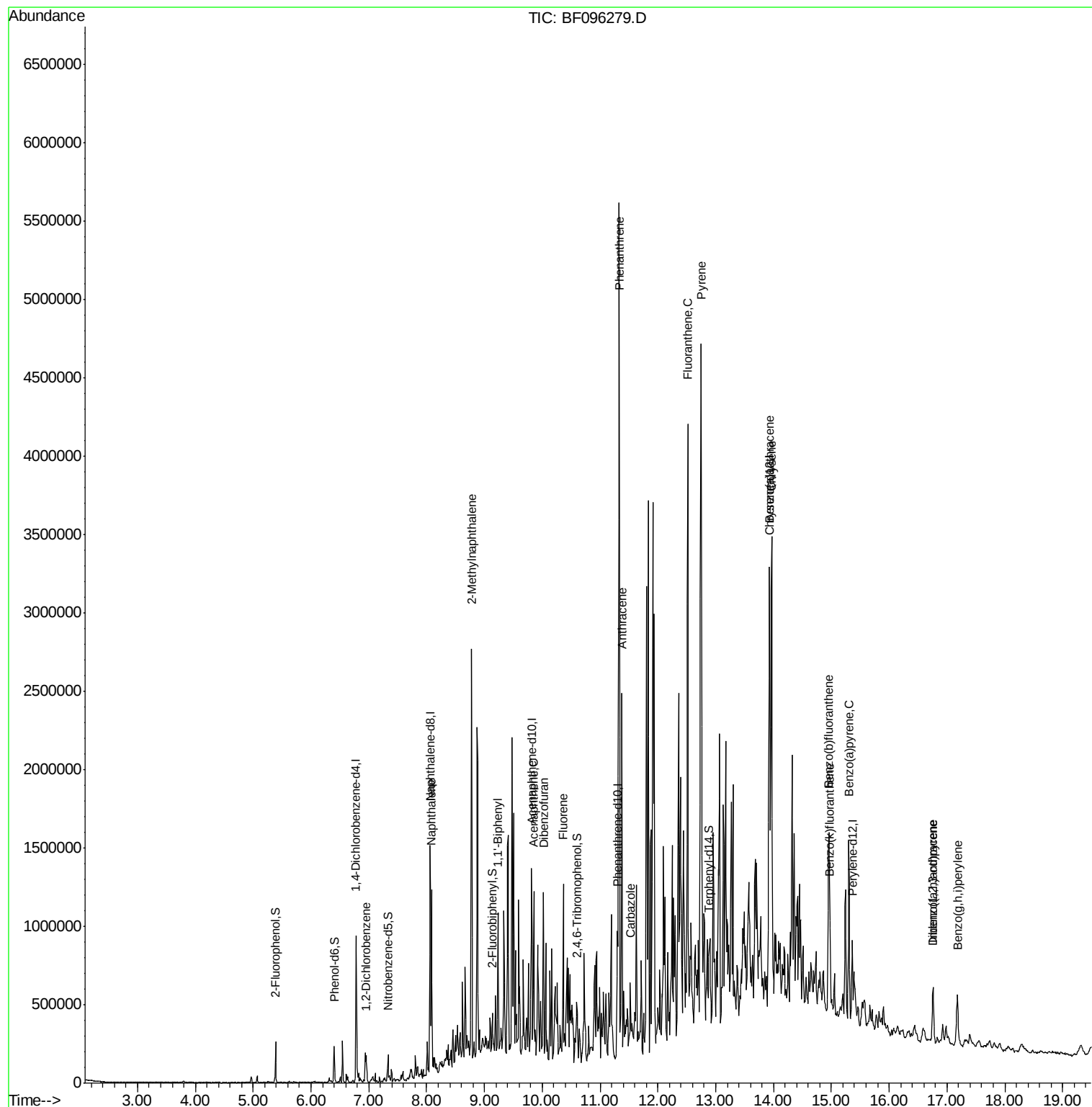
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#1

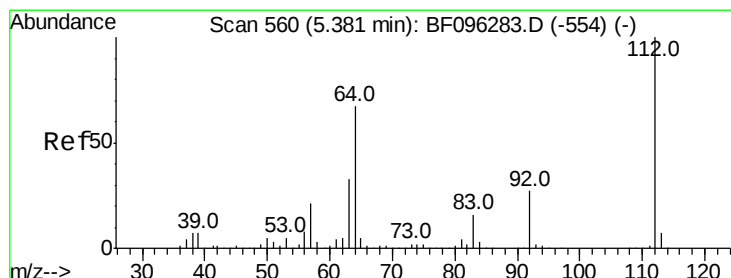
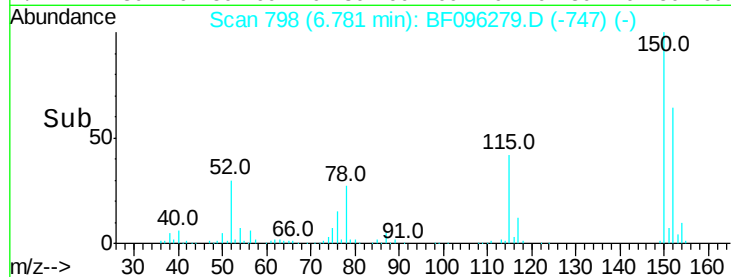
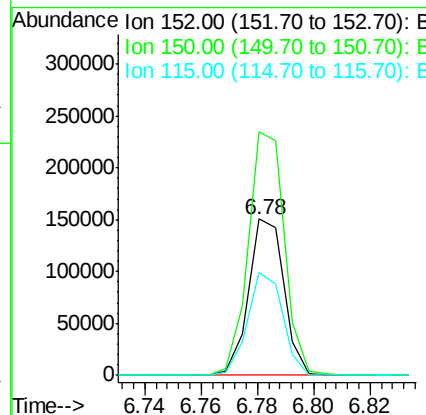
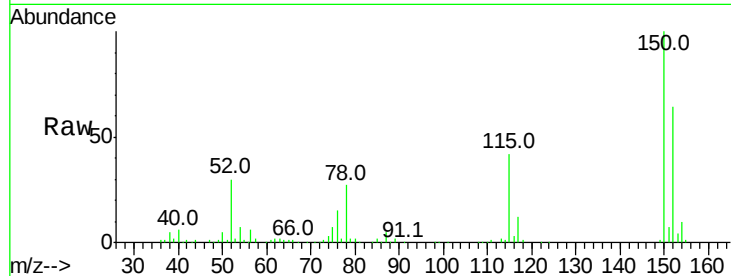
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.00 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	126.2	189.2
115	65.6	52.2	78.2

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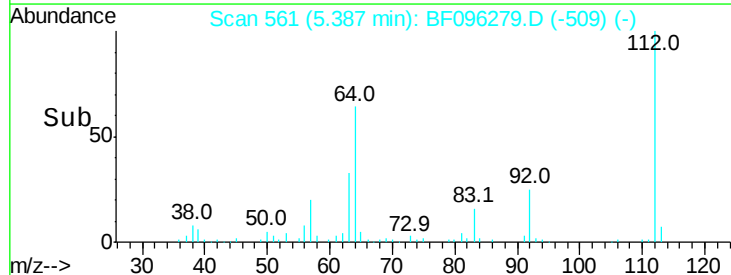
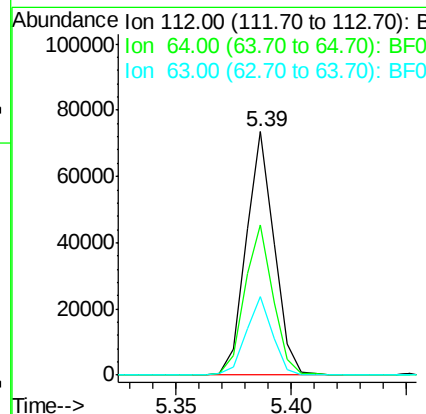
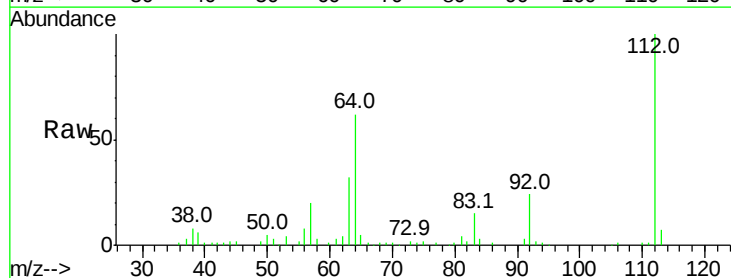
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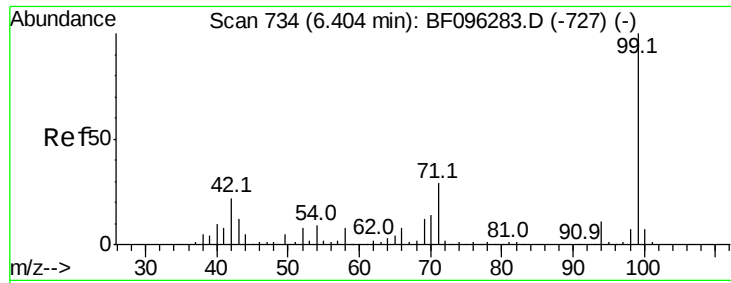


#5

2-Fluorophenol
Concen: 6.82 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.7	46.0	69.0
63	32.2	23.4	35.0





#7

Phenol-d6

Concen: 6.70 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

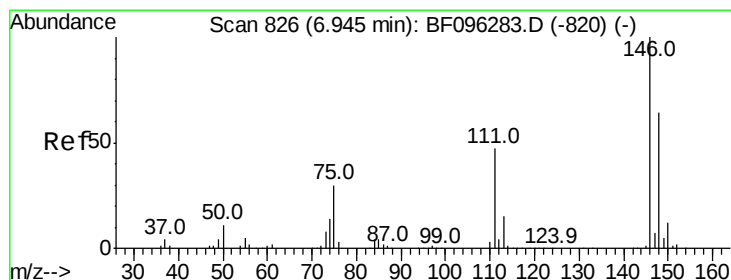
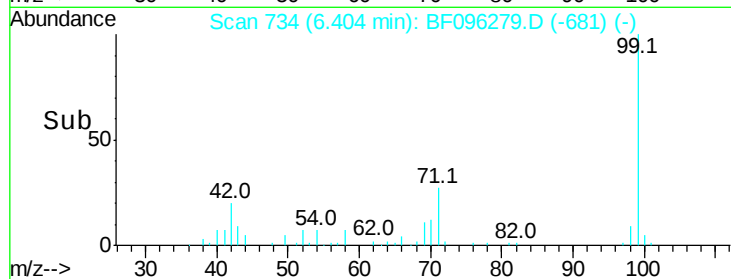
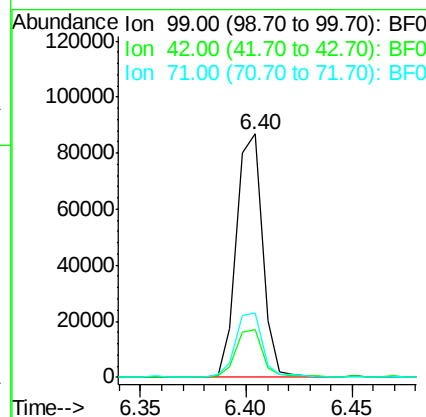
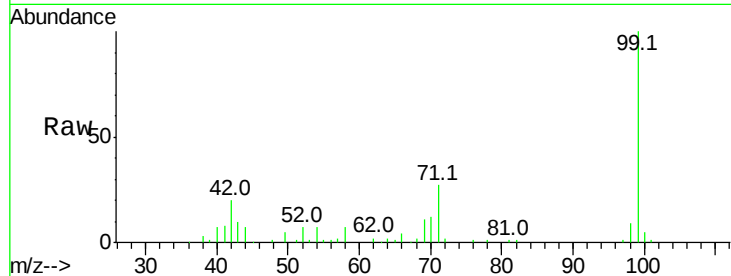
ClientSampleId :

E2-Q7-BASE

Tot Ion:	99	Resp:	74019
Ion Ratio	Lower	Upper	
99	100		
42	19.5	13.5	20.3
71	26.6	24.5	36.7

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#14

1,2-Dichlorobenzene

Concen: 3.54 ng

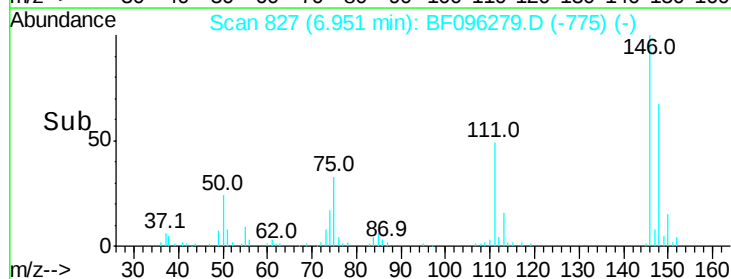
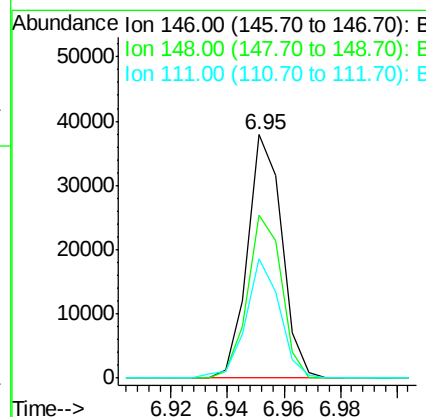
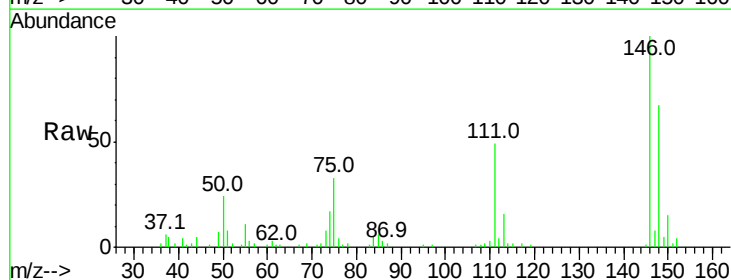
RT: 6.95 min Scan# 827

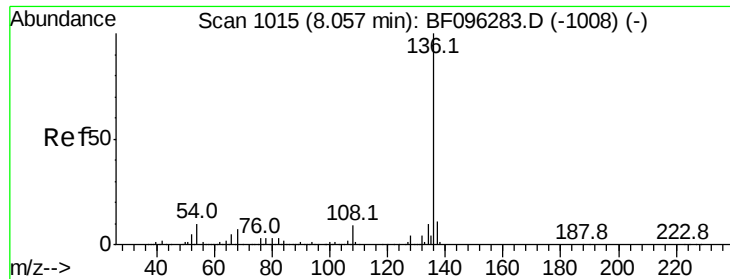
Delta R.T. 0.01 min

Lab File: BF096279.D

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Tgt Ion:	146	Resp:	31944
Ion Ratio	Lower	Upper	
146	100		
148	67.1	50.4	75.6
111	49.2	38.2	57.4





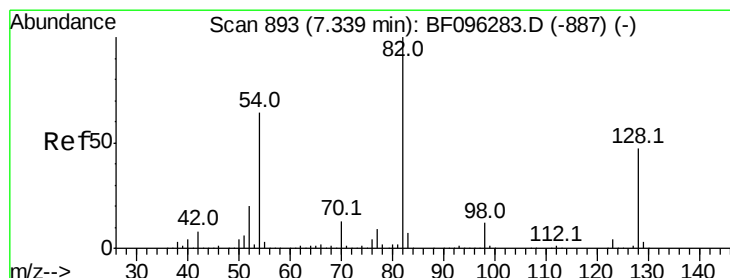
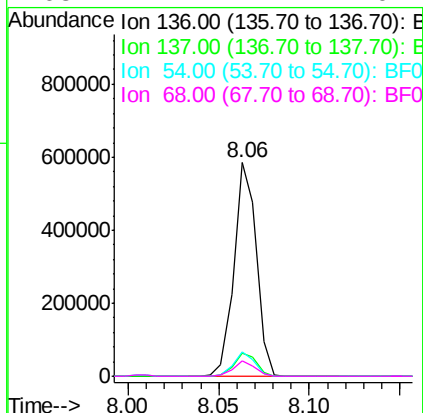
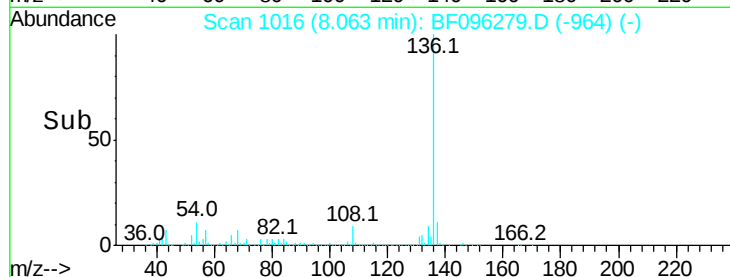
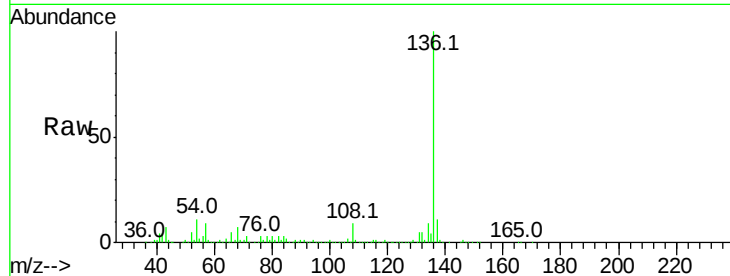
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 1016
Delta R.T. 0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.5	12.7	
54	11.2	4.9	7.3#	
68	7.1	4.1	6.1#	

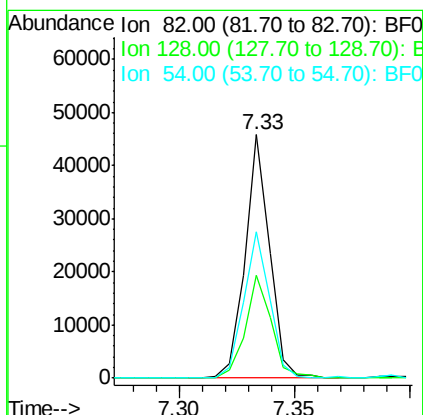
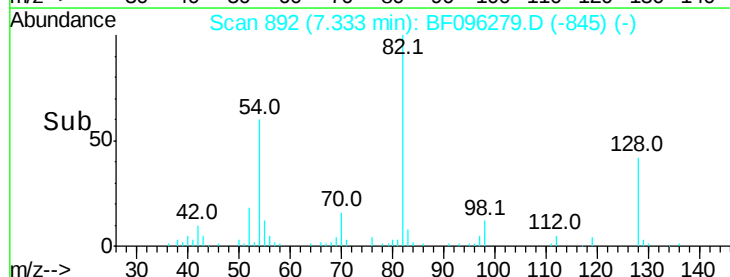
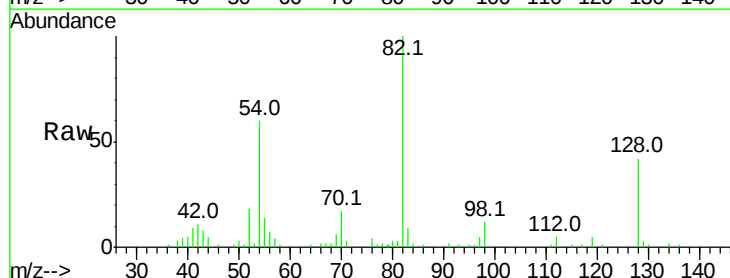
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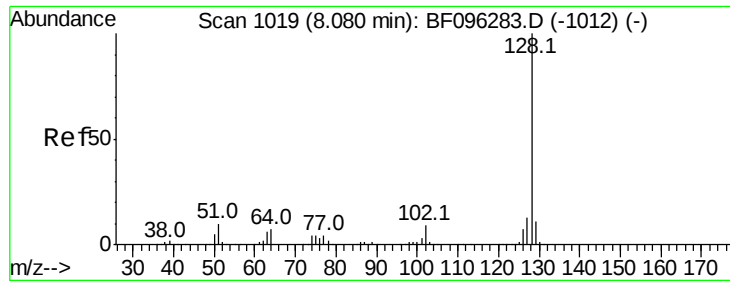
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#23
Nitrobenzene-d5
Concen: 4.67 ng
RT: 7.33 min Scan# 892
Delta R.T. -0.02 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.1	34.0	51.0	
54	60.1	42.2	63.2	





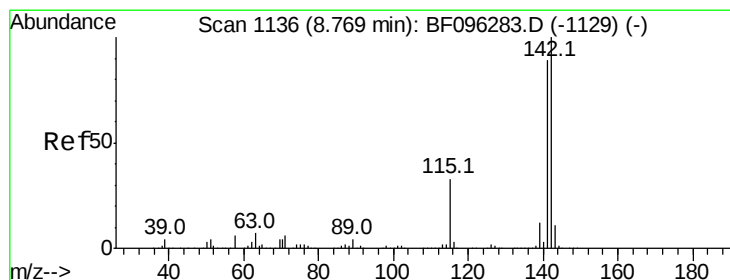
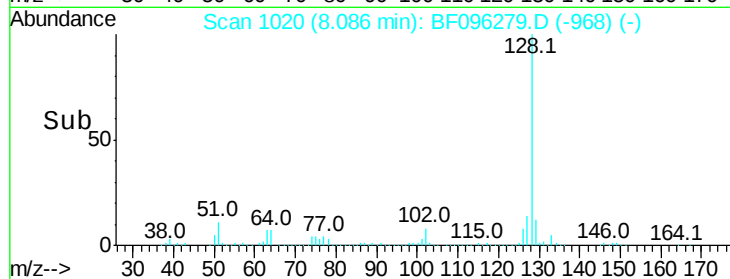
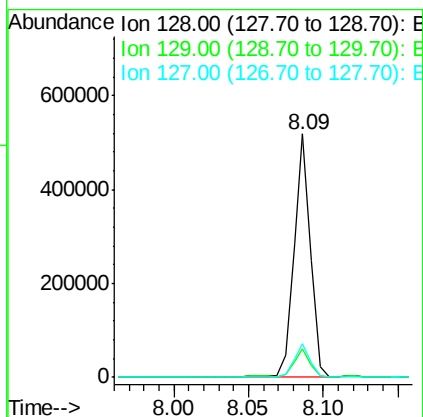
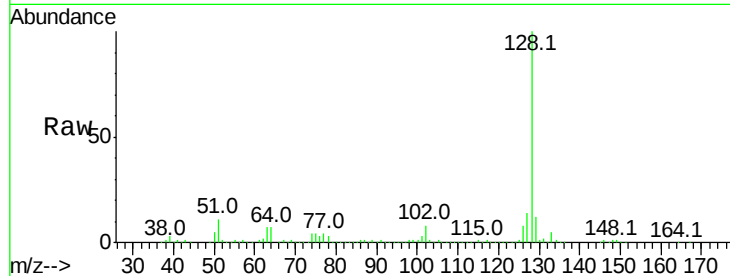
#31
Naphthalene
Concen: 16.60 ng
RT: 8.09 min Scan# 1020
Delta R.T. 0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.6	9.0	13.6	
127	13.7	10.8	16.2	

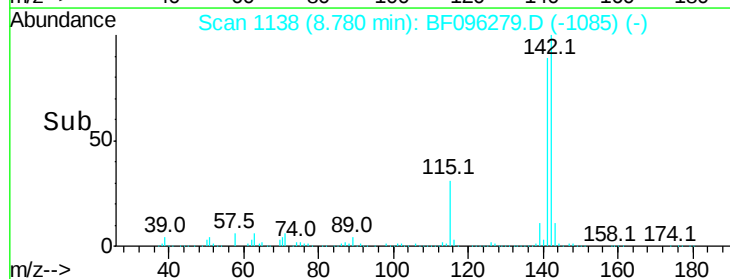
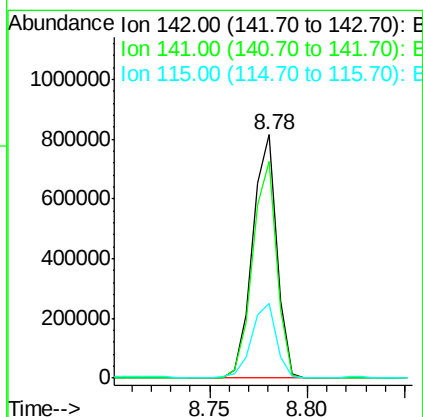
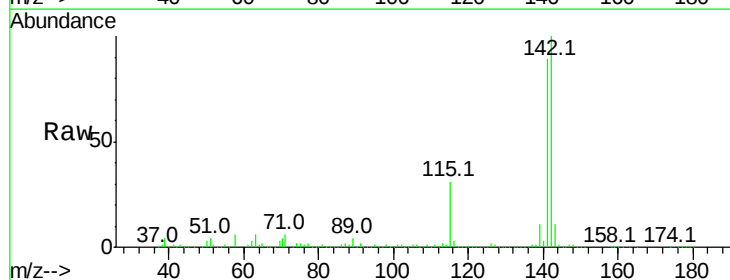
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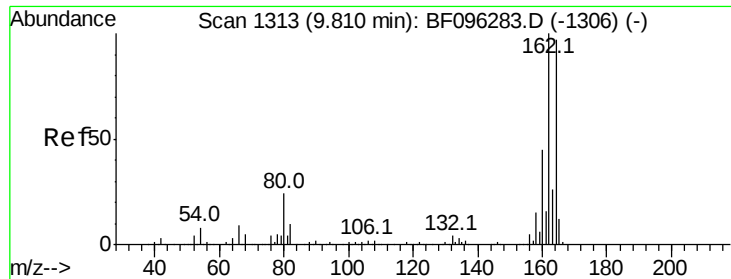
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#37
2-Methylnaphthalene
Concen: 44.63 ng
RT: 8.78 min Scan# 1138
Delta R.T. 0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	89.0	71.3	106.9	
115	30.8	27.1	40.7	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.82 min Scan# 1314

Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

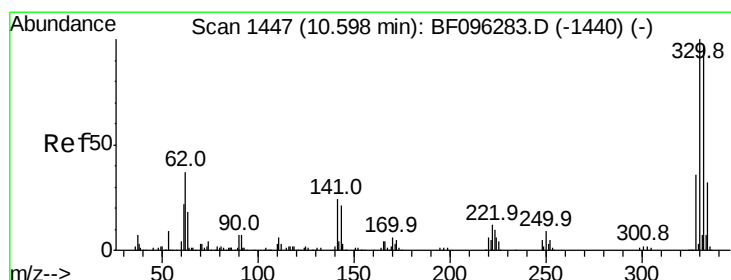
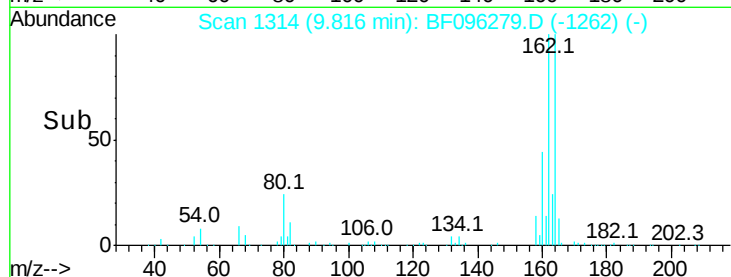
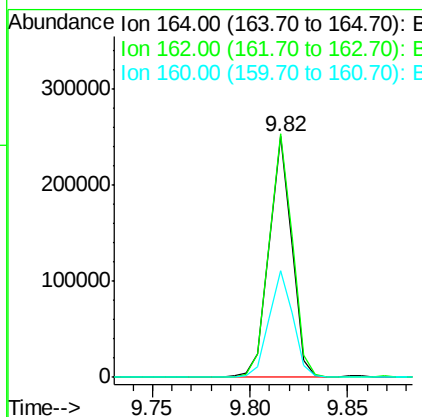
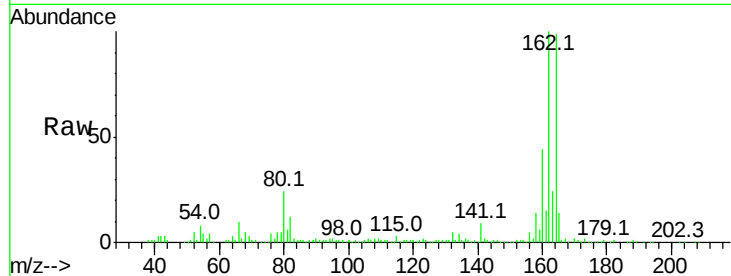
ClientSampleId :

E2-Q7-BASE

Tot Ion:	164	Resp:	203427
Ion Ratio	Lower	Upper	
164	100		
162	101.2	82.6	123.8
160	44.5	36.2	54.2

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#41

2,4,6-Tribromophenol

Concen: 7.27 ng

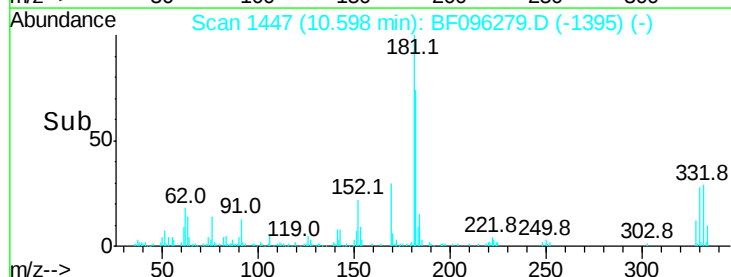
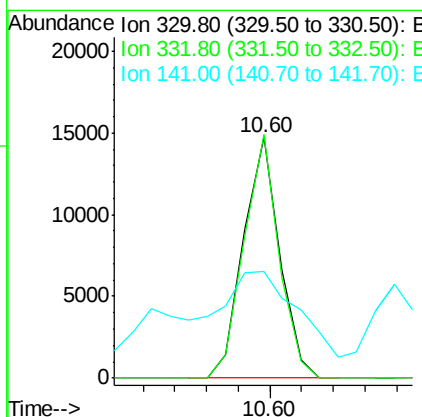
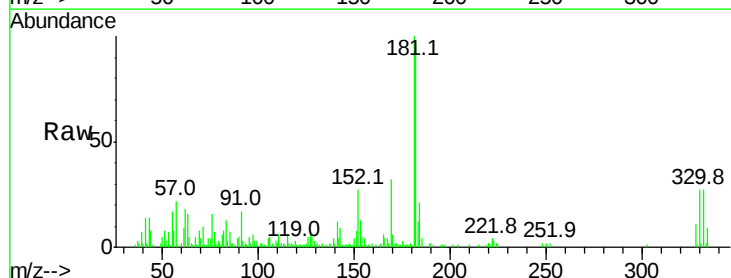
RT: 10.60 min Scan# 1447

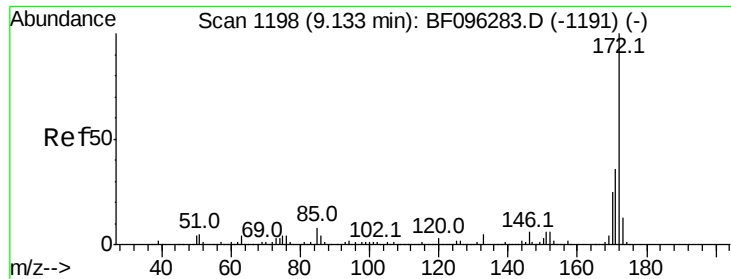
Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Tgt Ion:	330	Resp:	11640
Ion Ratio	Lower	Upper	
330	100		
332	97.7	76.6	115.0
141	73.9	31.4	47.2#





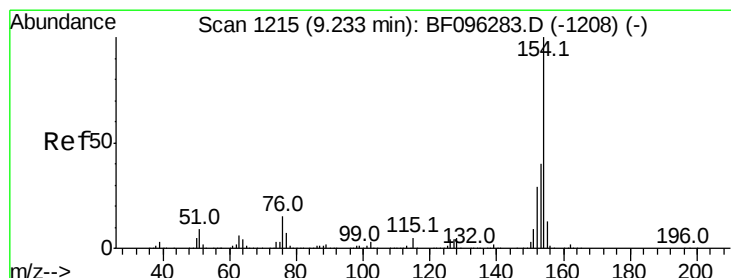
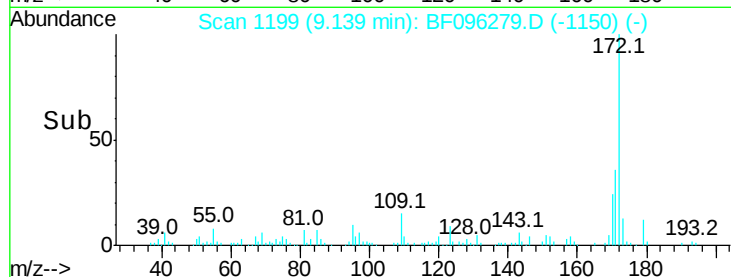
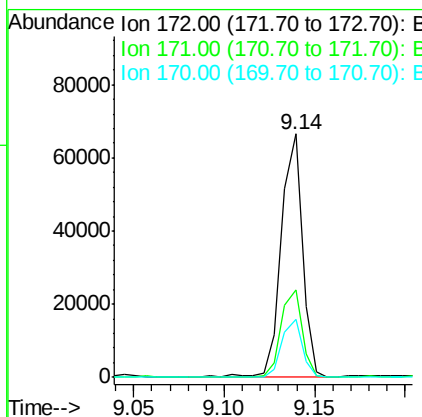
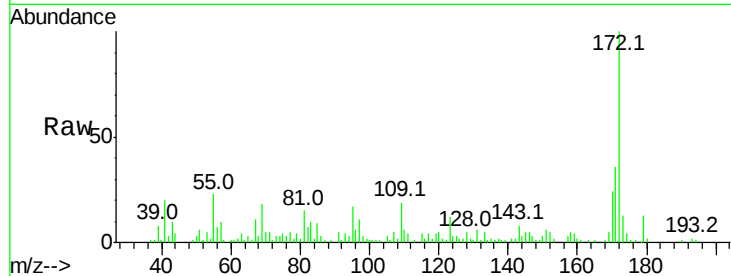
#44
2-Fluorobiphenyl
Concen: 4.89 ng
RT: 9.14 min Scan# 1199
Delta R.T. -0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.9	29.6	44.4	
170	23.8	19.8	29.8	

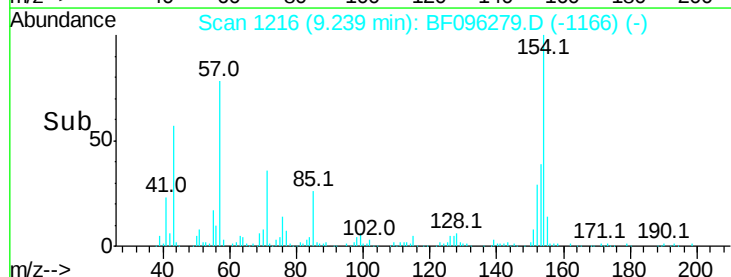
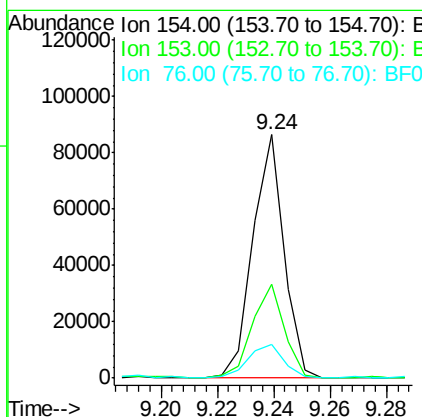
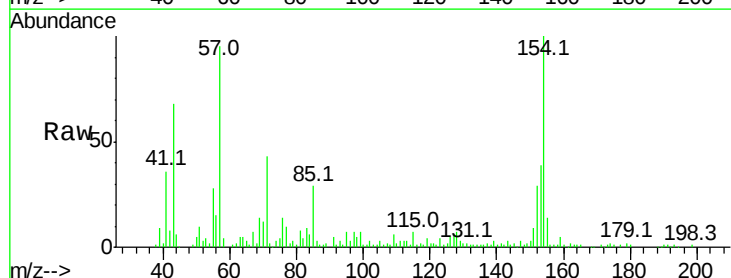
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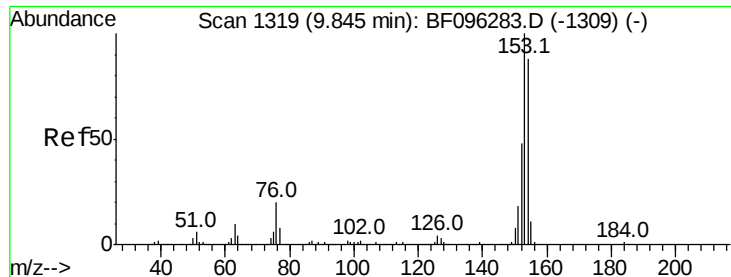
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#45
1,1'-Biphenyl
Concen: 4.25 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	38.7	21.2	61.2	
76	13.7	0.0	29.9	





#51

Acenaphthene

Concen: 16.46 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

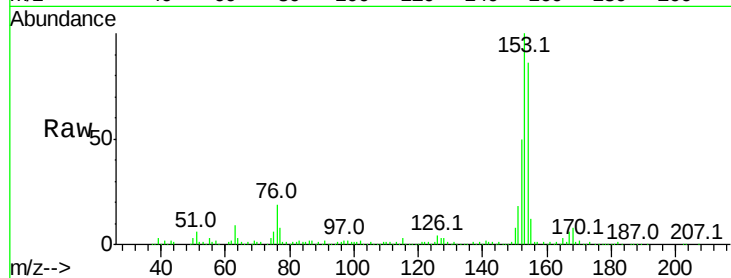
ClientSampleId :

E2-Q7-BASE

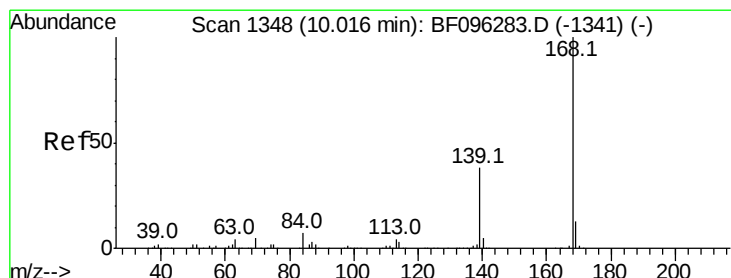
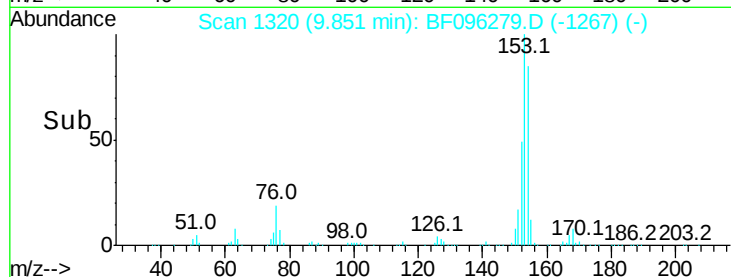
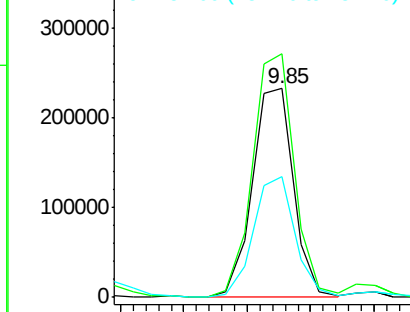
Tot Ion:	154	Resp:	208171
Ion Ratio	Lower	Upper	
154	100		
153	116.8	90.5	135.7
152	58.1	43.6	65.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.71 ng

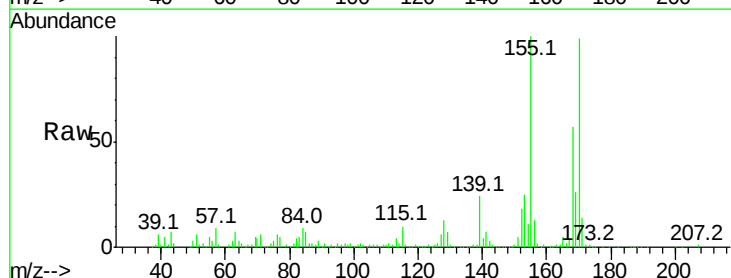
RT: 10.02 min Scan# 1349

Delta R.T. -0.01 min

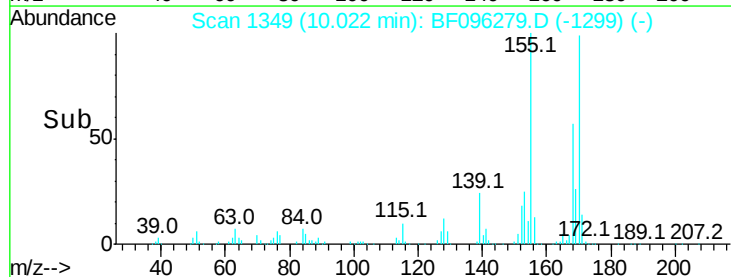
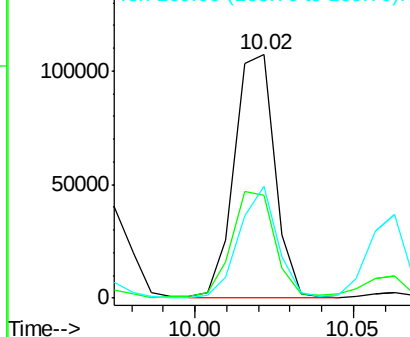
Lab File: BF096279.D

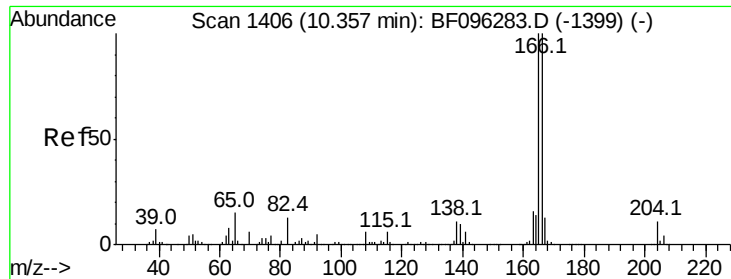
Acq: 29 Jun 2017 5:59

Tgt Ion:	168	Resp:	94231
Ion Ratio	Lower	Upper	
168	100		
139	42.1	30.6	45.8
169	46.1	10.8	16.2#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 17.14 ng

RT: 10.36 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

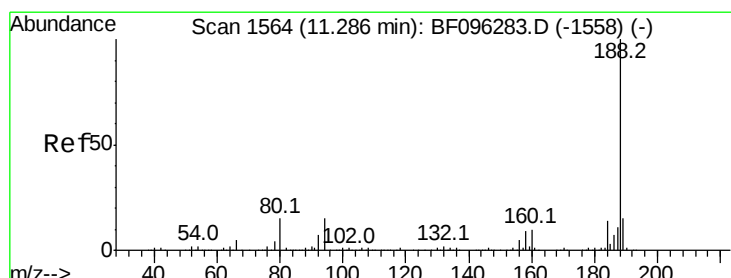
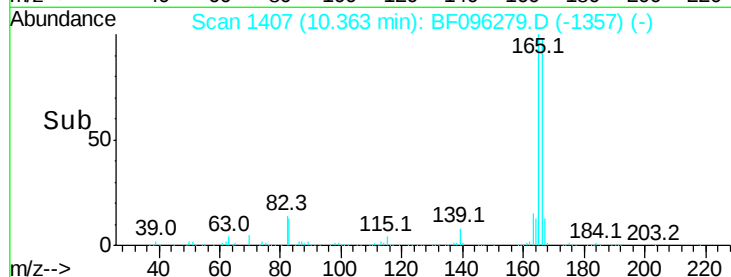
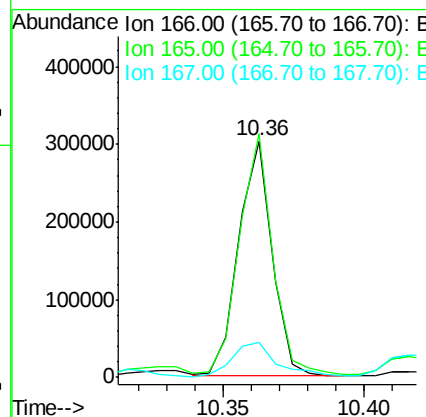
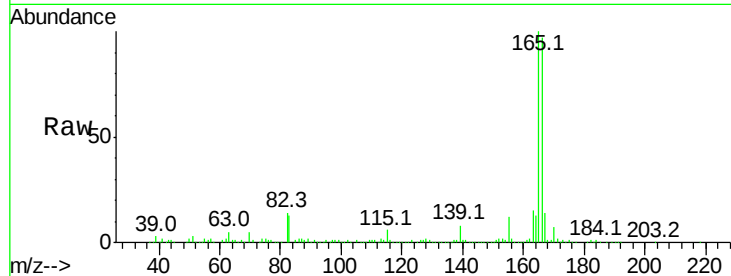
ClientSampleId :

E2-Q7-BASE

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.9	78.8	118.2
167	14.7	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

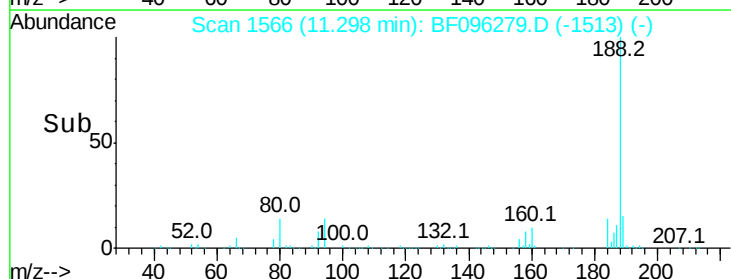
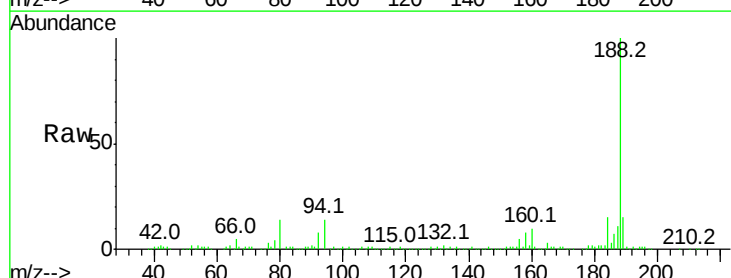
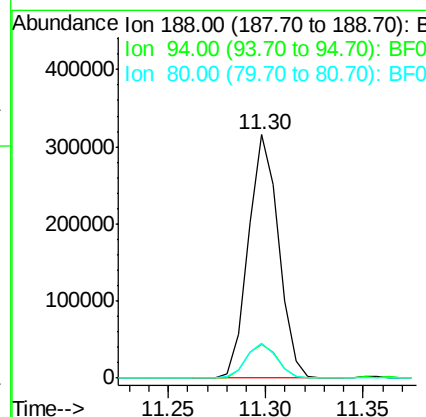
RT: 11.30 min Scan# 1566

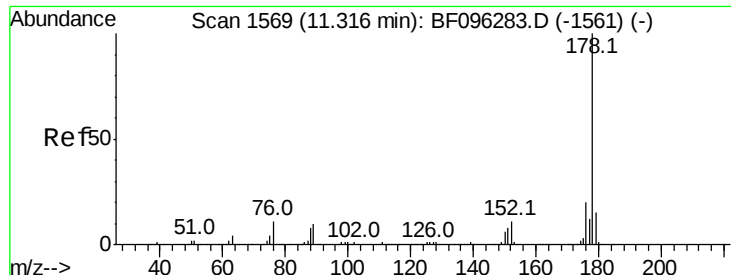
Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	13.8	9.4	14.2
80	14.4	10.2	15.2





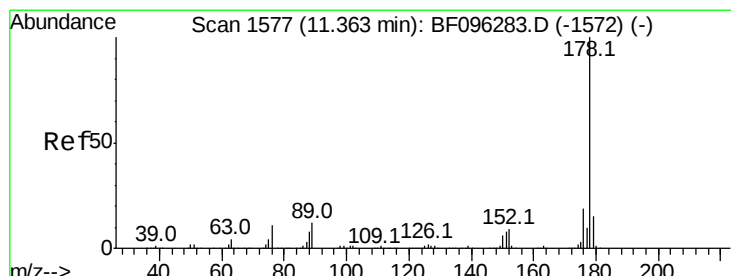
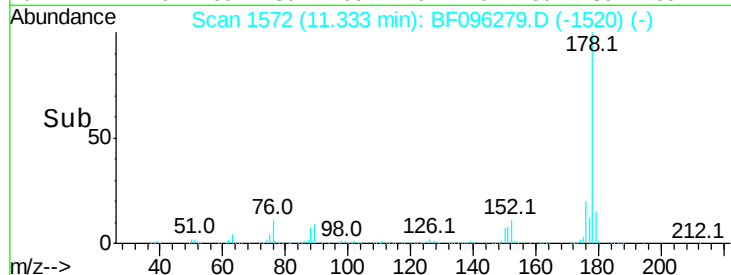
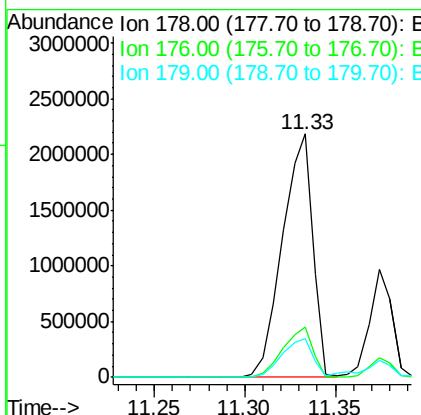
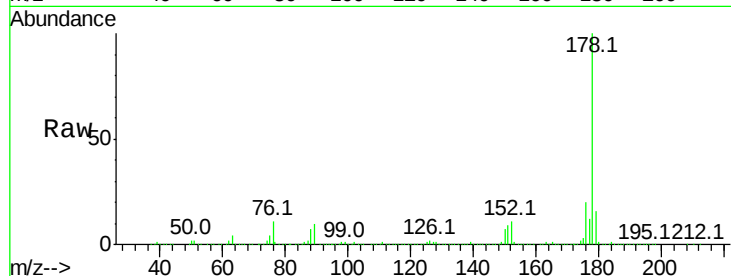
#70
Phenanthrene
Concen: 173.38 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampled :
E2-Q7-BASE

Tot Ion:178 Resp: 2565163
Ion Ratio Lower Upper
178 100
176 20.5 16.2 24.4
179 15.8 12.6 19.0

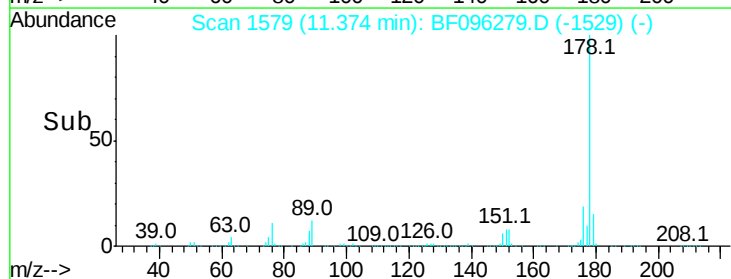
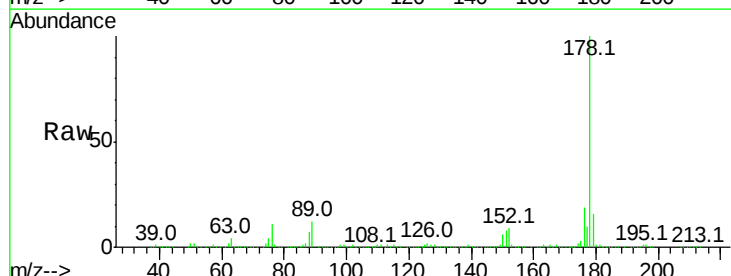
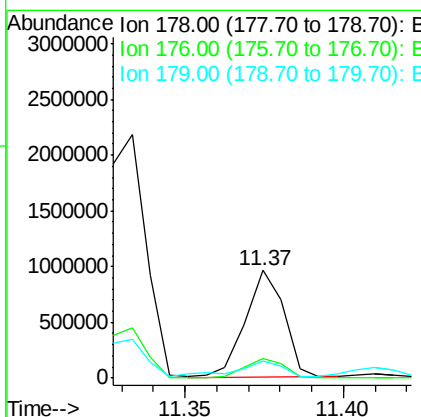
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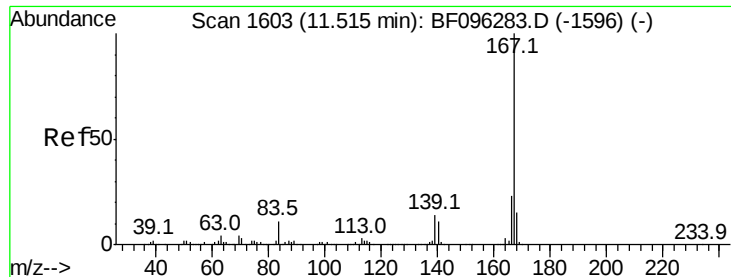
mohammad
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#71
Anthracene
Concen: 42.90 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion:178 Resp: 809555
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 15.6 12.7 19.1





#72

Carbazole

Concen: 7.38 ng

RT: 11.52 min Scan# 1604

Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

ClientSampleId :

E2-Q7-BASE

Tot Ion:167 Resp: 153709

Ion Ratio Lower Upper

167 100

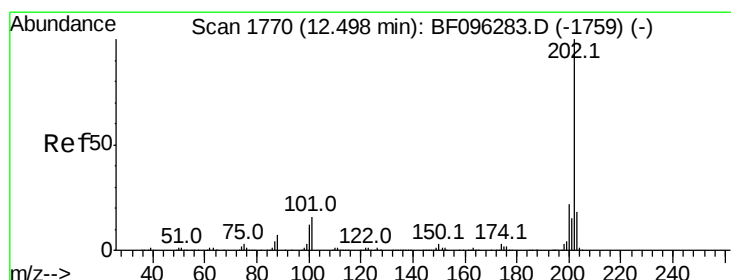
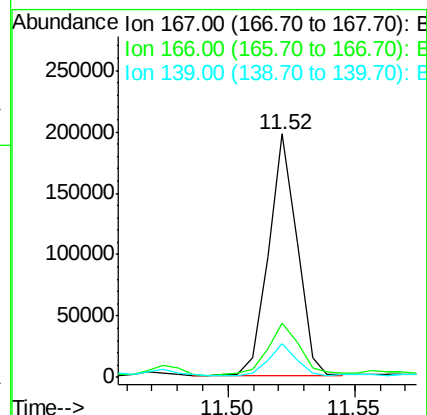
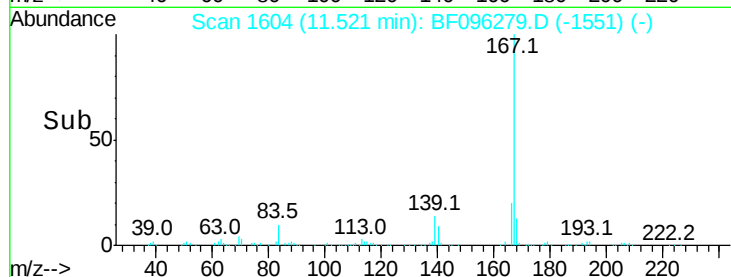
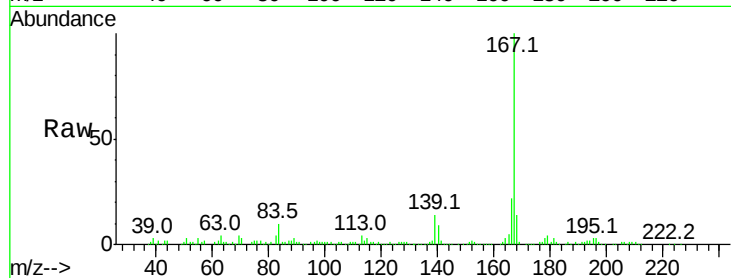
166 22.1 18.1 27.1

139 13.7 11.7 17.5

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#74

Fluoranthene

Concen: 86.76 ng

RT: 12.52 min Scan# 1773

Delta R.T. 0.02 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

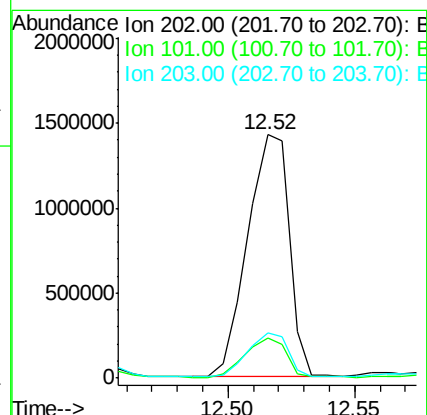
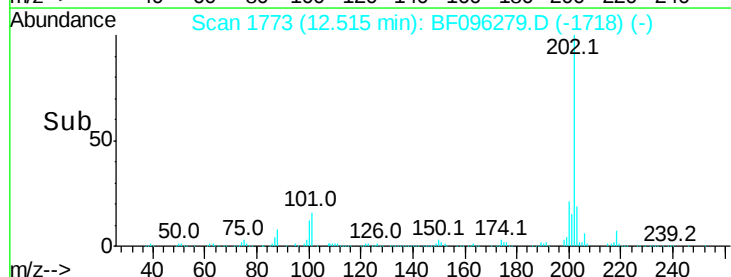
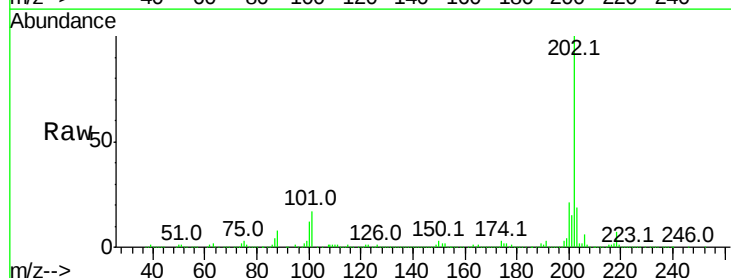
Tgt Ion:202 Resp: 1627313

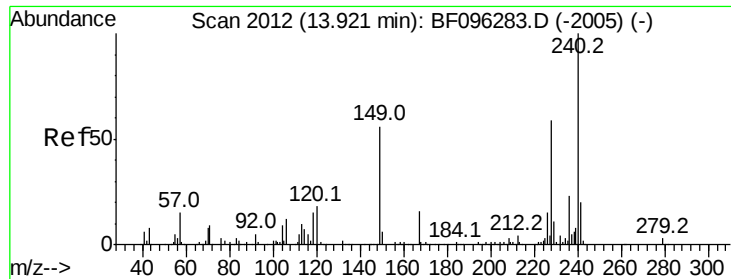
Ion Ratio Lower Upper

202 100

101 16.6 0.0 33.2

203 18.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.02 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

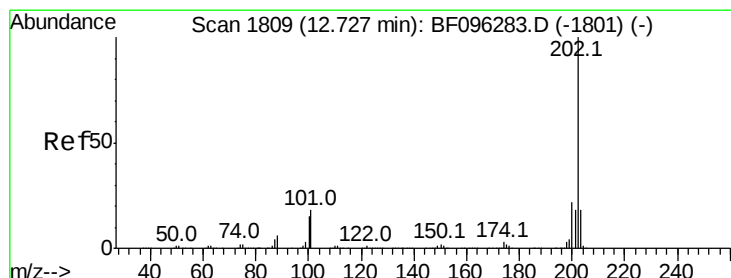
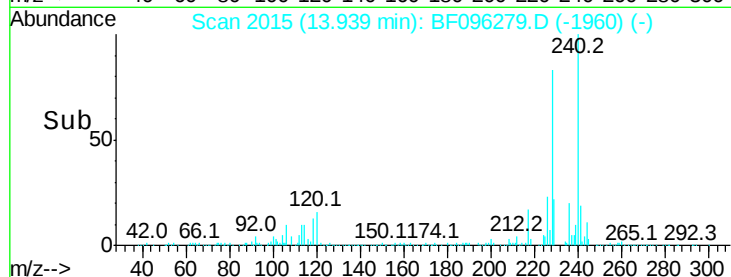
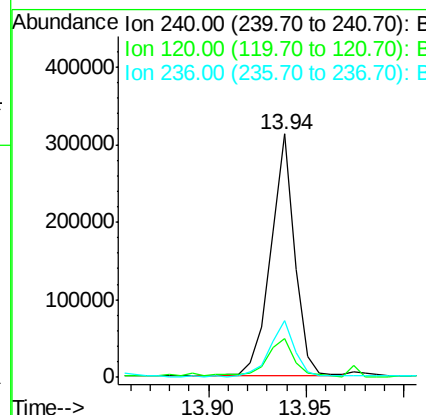
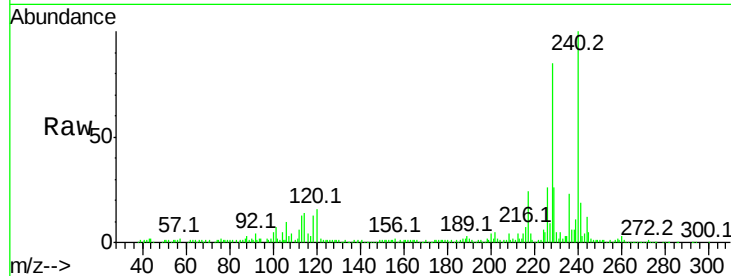
ClientSampleId :

E2-Q7-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.9	5.8	8.8#
236	23.3	20.5	30.7

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#77

Pyrene

Concen: 105.19 ng

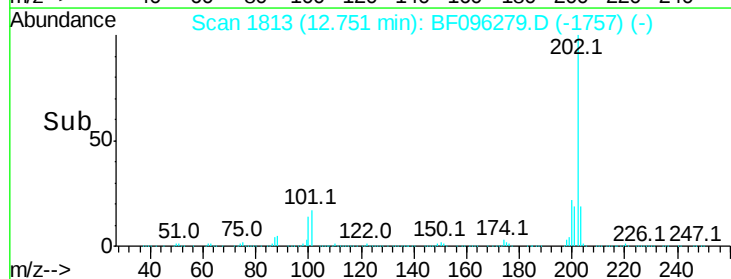
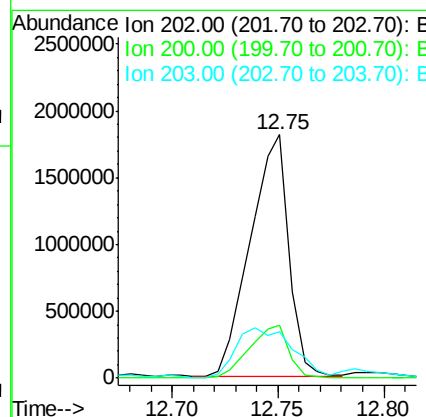
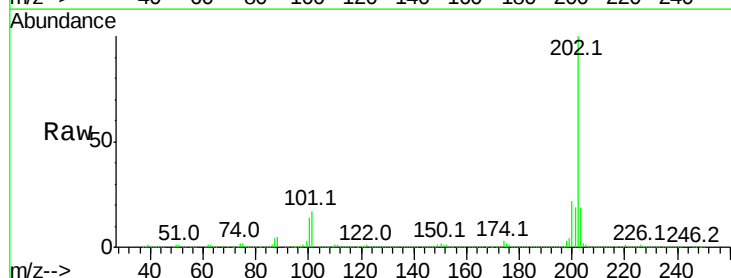
RT: 12.75 min Scan# 1813

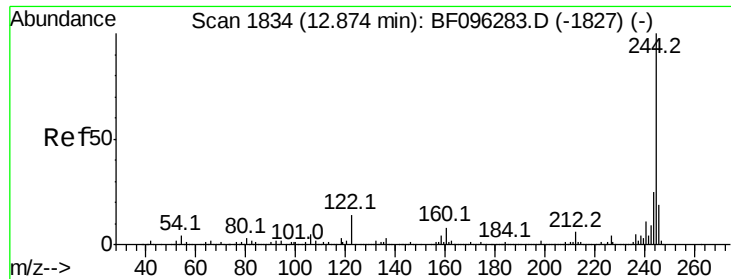
Delta R.T. 0.03 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.6	26.4
203	18.8	14.4	21.6





#78

Terphenyl-d14

Concen: 4.20 ng

RT: 12.88 min Scan# 1835

Delta R.T. 0.01 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

Instrument :

BNA_F

ClientSampleId :

E2-Q7-BASE

Tot Ion:244 Resp: 45037

Ion Ratio Lower Upper

244 100

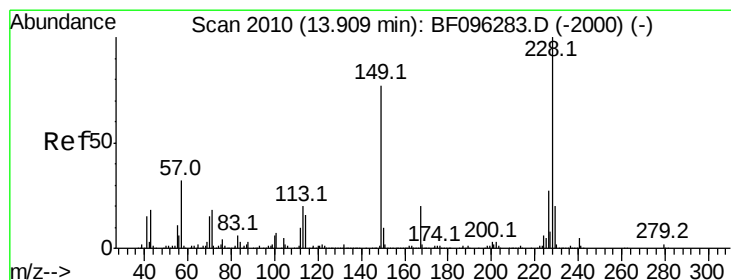
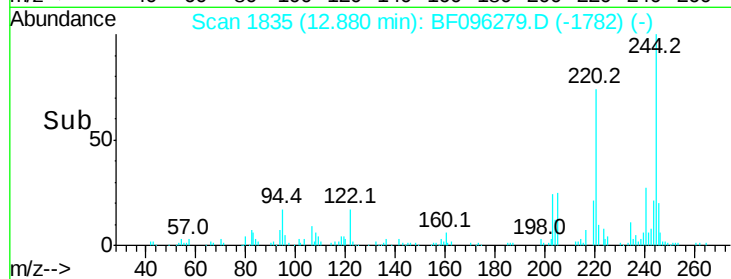
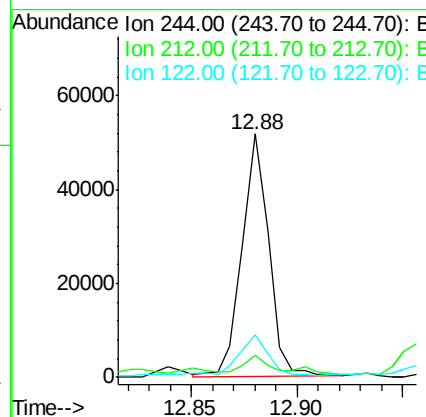
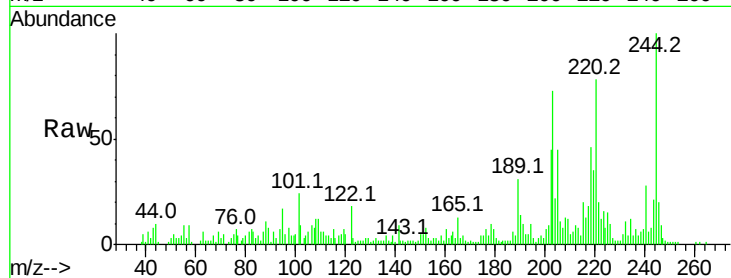
212 9.3 6.0 9.0#

122 17.7 10.3 15.5#

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#80

Benzo(a)anthracene

Concen: 75.71 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.02 min

Lab File: BF096279.D

Acq: 29 Jun 2017 5:59

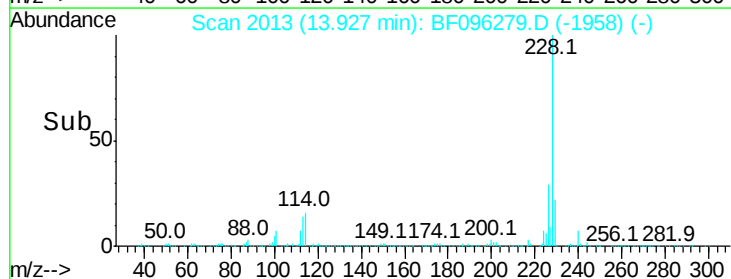
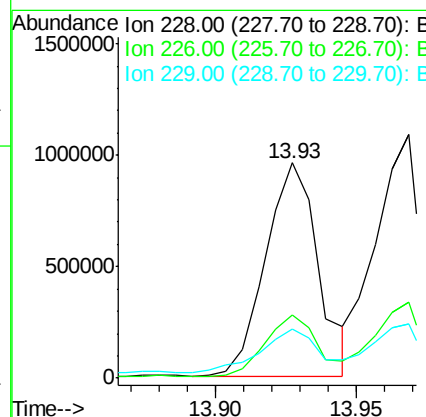
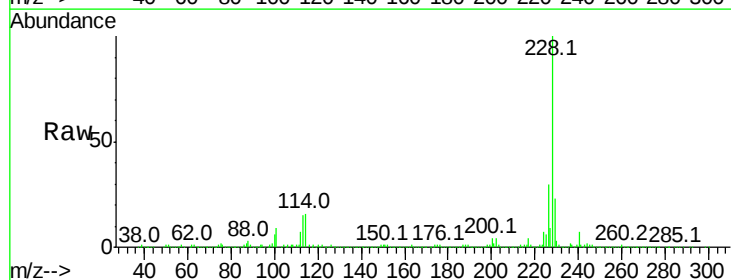
Tgt Ion:228 Resp: 1235808

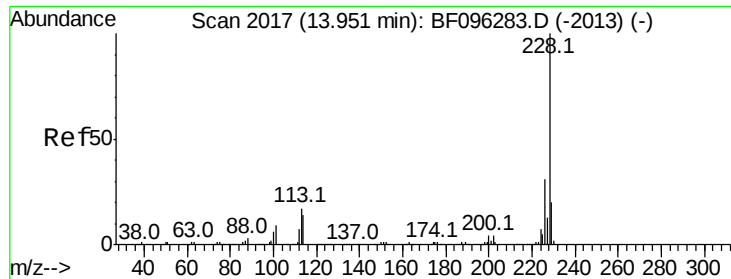
Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

229 22.9 16.3 24.5





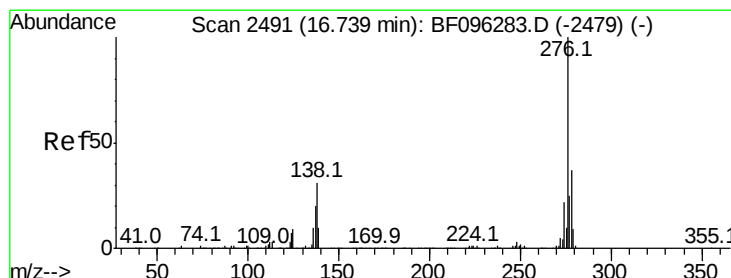
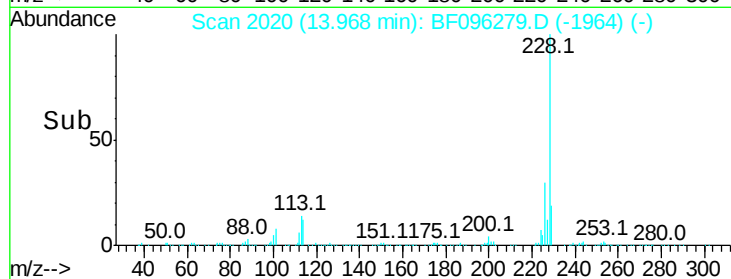
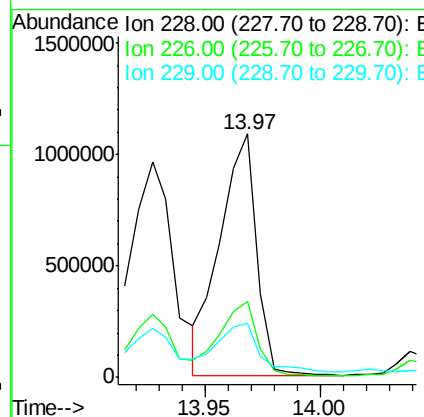
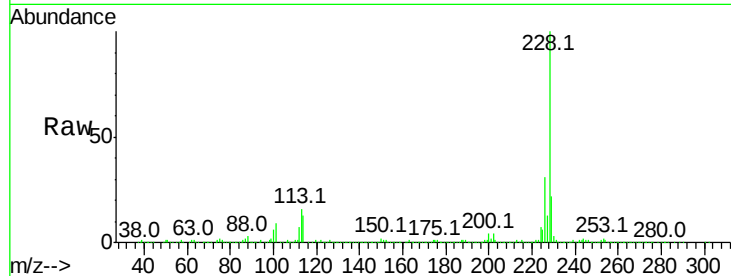
#82
Chrysene
Concen: 70.42 ng
RT: 13.97 min Scan# 2020
Delta R.T. 0.03 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3
229	22.1	15.8	23.6

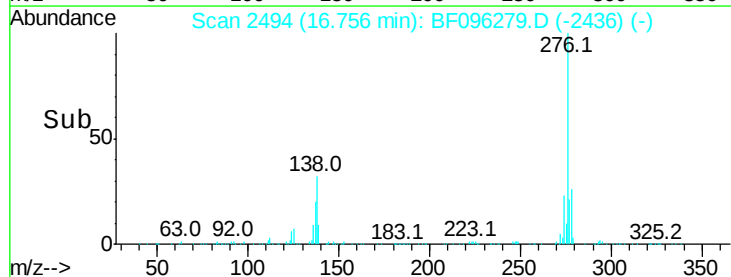
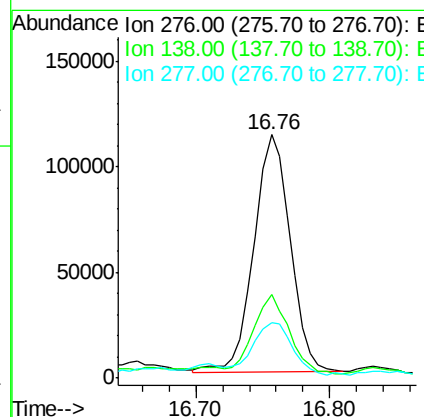
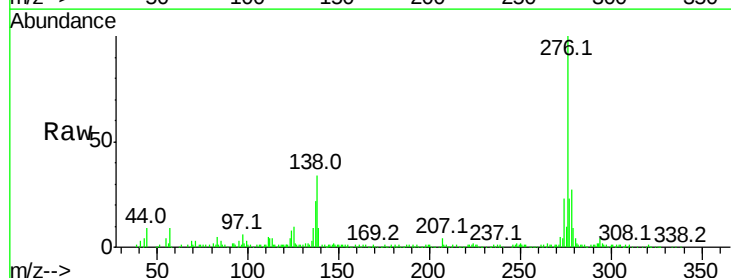
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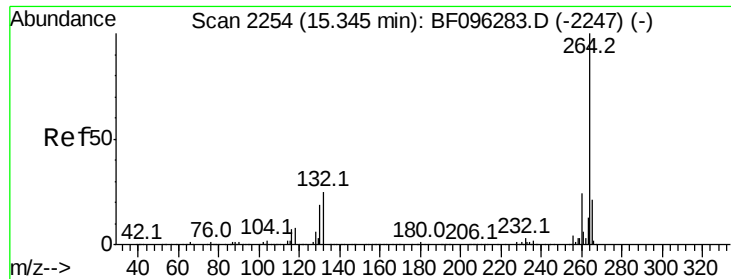
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 15.18 ng
RT: 16.76 min Scan# 2494
Delta R.T. 0.04 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.3	27.8	41.6
277	24.4	20.2	30.4





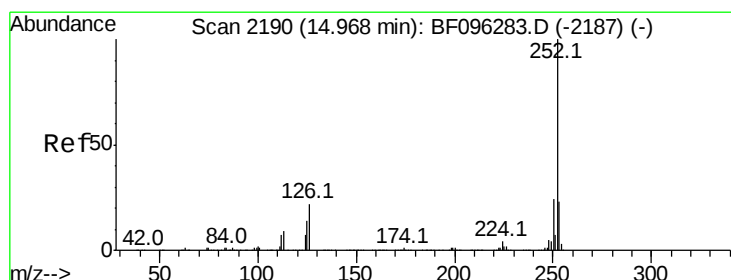
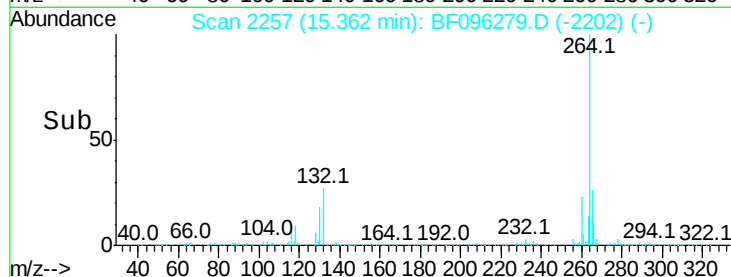
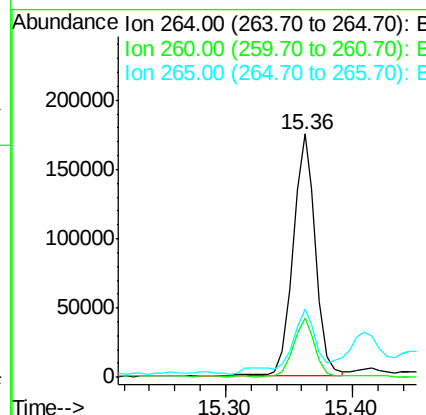
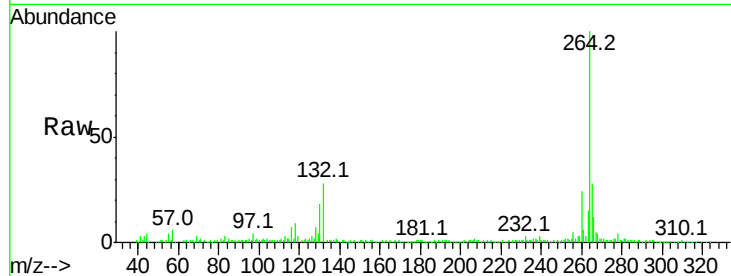
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.02 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	27.8	17.2	25.8

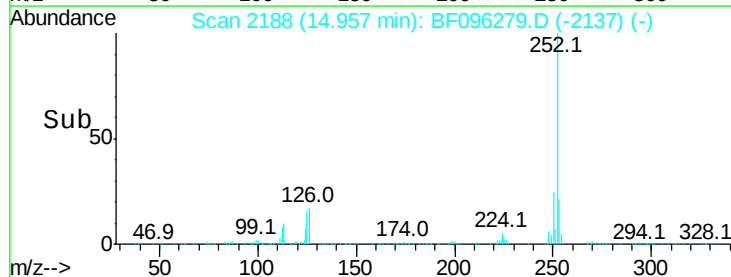
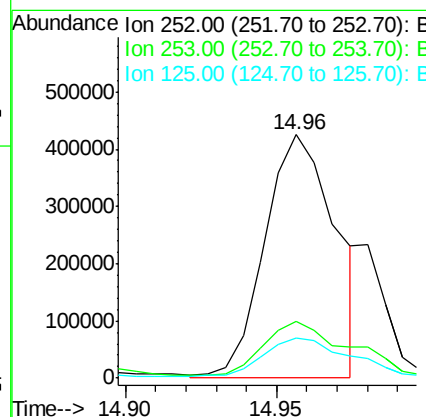
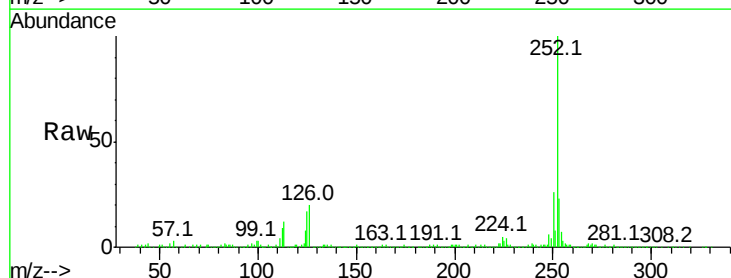
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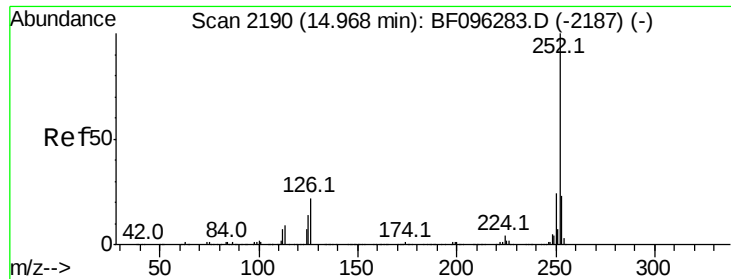
mohammad
6/29/2017 6:00:17 PM



#87
Benzo(b)fluoranthene
Concen: 48.99 ng m
RT: 14.96 min Scan# 2188
Delta R.T. -0.00 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	16.5	9.8	14.8





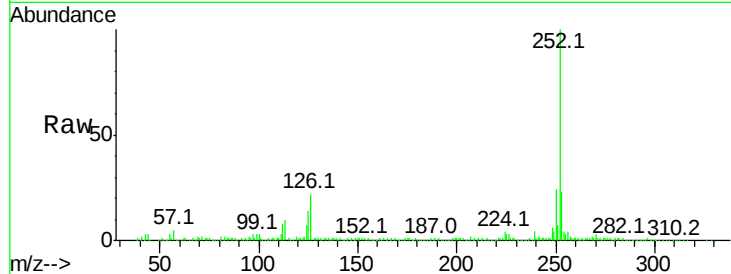
#88
Benzo(k)fluoranthene
Concen: 11.70 ng
RT: 14.98 min Scan# 2192
Delta R.T. 0.02 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampleId :
E2-Q7-BASE

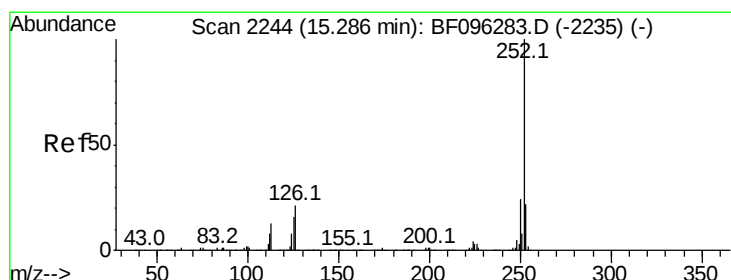
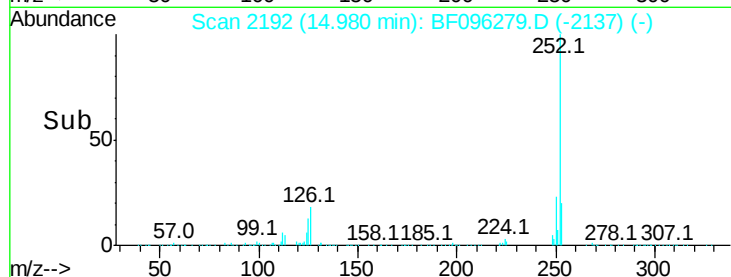
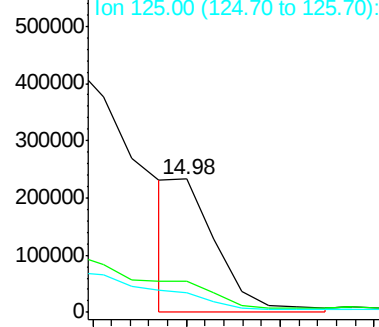
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	14.4	13.1	19.7

Manual Integrations
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6/29/2017 6:00:17 PM



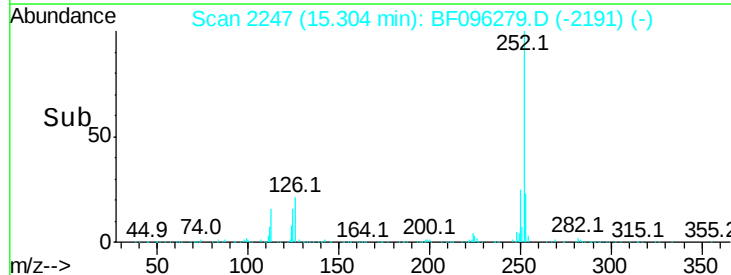
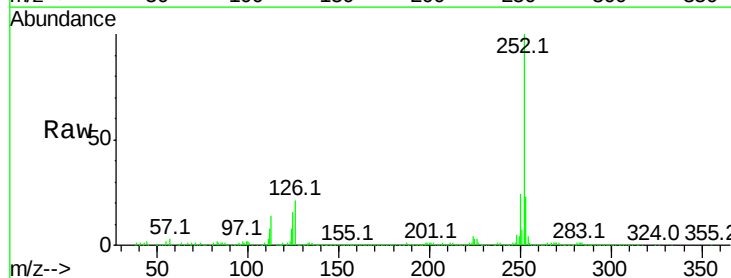
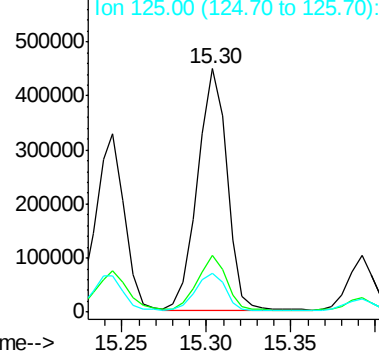
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

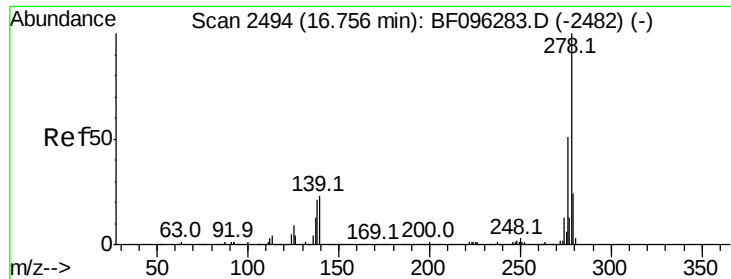


#89
Benzo(a)pyrene
Concen: 43.50 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.03 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	16.2	11.0	16.4

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





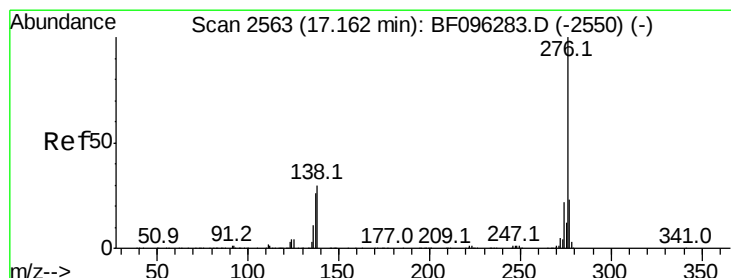
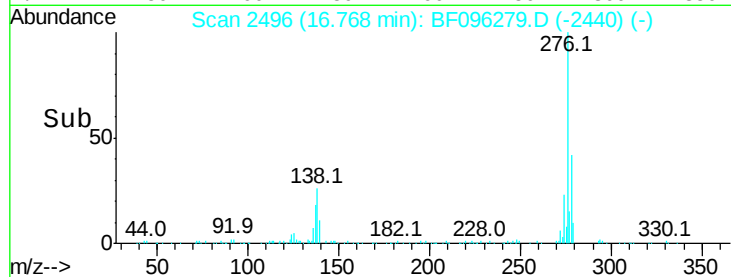
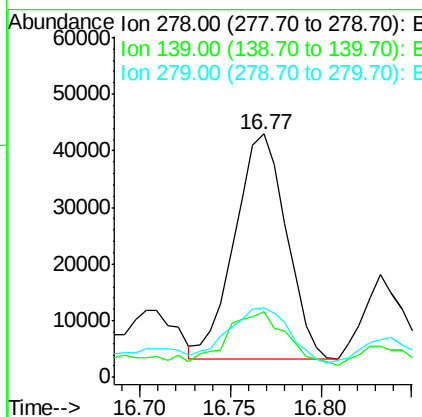
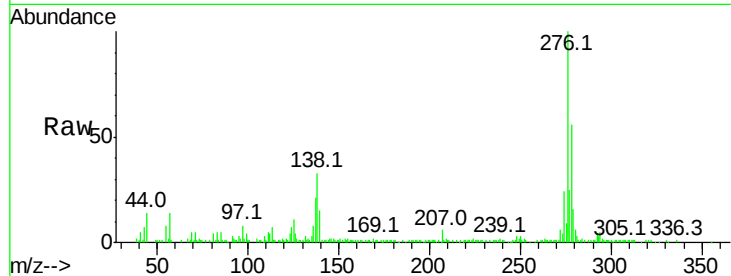
#90
Dibenzo(a,h)anthracene
Concen: 8.07 ng
RT: 16.77 min Scan# 2496
Delta R.T. 0.03 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Instrument :
BNA_F
ClientSampled :
E2-Q7-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	27.0	16.6	24.8#
279	28.4	19.3	28.9

Manual Integrations
APPROVED

mohammad
6/29/2017 6:00:17 PM



#91
Benzo(g,h,i)perylene
Concen: 22.67 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.05 min
Lab File: BF096279.D
Acq: 29 Jun 2017 5:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	31.4	25.4	38.0

