

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061317\
 Data File : BF095909.D
 Acq On : 13 Jun 2017 23:28
 Operator : SJ/MA
 Sample : I3635-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-061217-D

Manual Integrations
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Quant Time: Jun 14 15:56:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	76223	20.00	ng	-0.05
21) Naphthalene-d8	9.38	136	295678	20.00	ng	-0.05
38) Acenaphthene-d10	12.20	164	118216	20.00	ng	-0.05
63) Phenanthrene-d10	14.60	188	175998	20.00	ng	-0.05
75) Chrysene-d12	18.32	240	152787	20.00	ng	-0.04
86) Perylene-d12	19.99	264	112350	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	490185	102.47	ng	-0.04
7) Phenol-d6	6.92	99	590972	103.20	ng	-0.04
23) Nitrobenzene-d5	8.27	82	337202	70.83	ng	-0.05
41) 2,4,6-Tribromophenol	13.50	330	94112	89.98	ng	-0.05
44) 2-Fluorobiphenyl	11.16	172	632197	74.42	ng	-0.05
78) Terphenyl-d14	16.97	244	427910	69.51	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	9.42	128	35639	2.40	ng	# 96
37) 2-Methylnaphthalene	10.55	142	24770	2.47	ng	99
49) Dimethylphthalate	11.86	163	67892	7.56	ng	99
51) Acenaphthene	12.25	154	48264	6.42	ng	99
54) Dibenzofuran	12.55	168	62040	5.86	ng	95
57) Fluorene	13.09	166	103648	11.26	ng	98
70) Phenanthrene	14.64	178	778875	76.70	ng	99
71) Anthracene	14.72	178	230442	21.74	ng	99
72) Carbazole	15.03	167	42256	4.09	ng	97
74) Fluoranthene	16.43	202	926959	92.23	ng	99
77) Pyrene	16.73	202	745244	65.37	ng	98
80) Benzo(a)anthracene	18.31	228	362487	40.81	ng	99
82) Chrysene	18.36	228	323250	36.41	ng	99
85) Indeno(1,2,3-cd)pyrene	21.16	276	118217	15.56	ng	93
87) Benzo(b)fluoranthene	19.59	252	323518m	45.99	ng	
88) Benzo(k)fluoranthene	19.61	252	115453m	17.17	ng	
89) Benzo(a)pyrene	19.93	252	225643	34.90	ng	99
90) Dibenzo(a,h)anthracene	21.16	278	31411m	5.73	ng	
91) Benzo(a,h,i)perylene	21.49	276	102001	18.24	ng	98

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

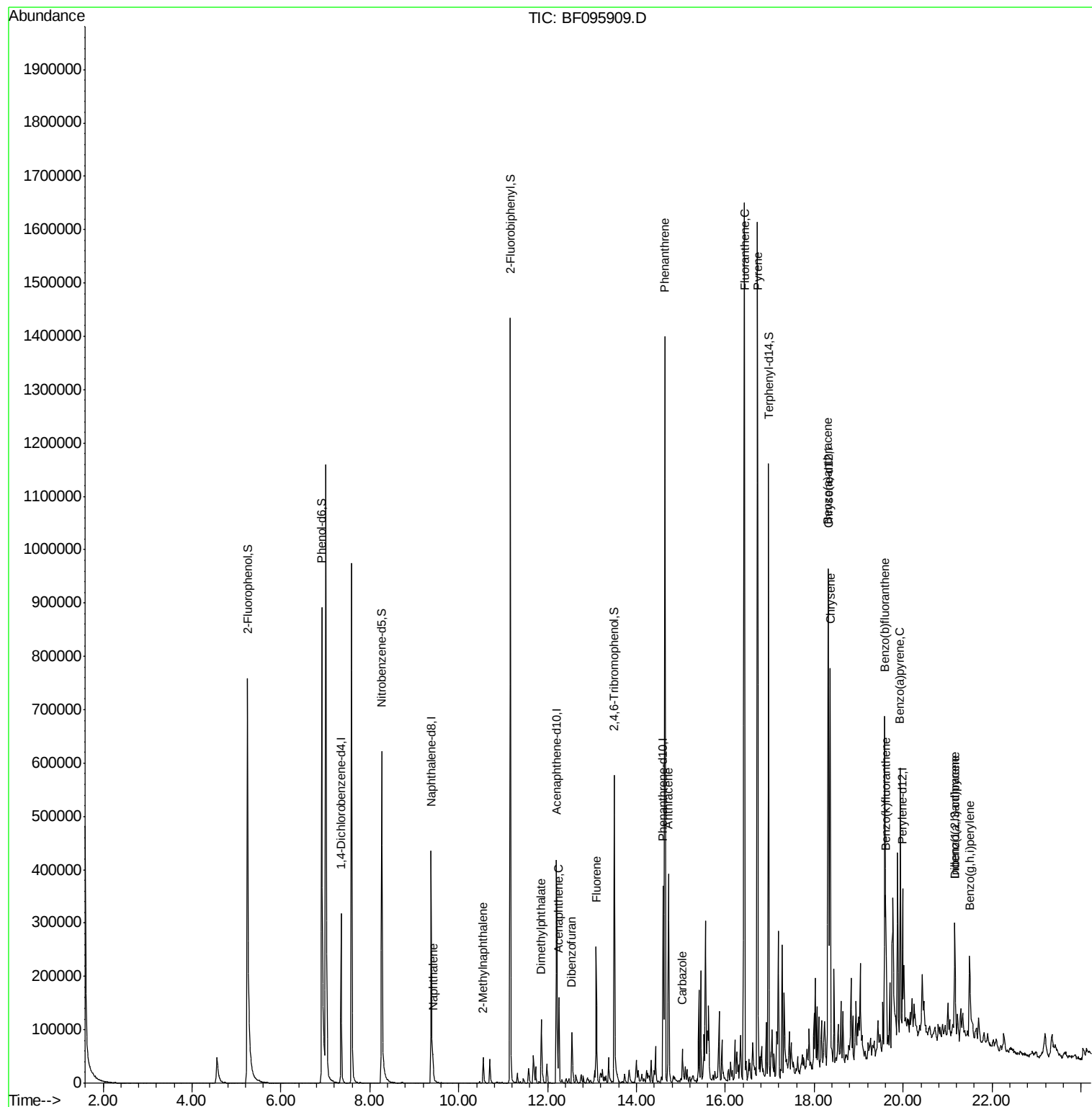
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061317\
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ALS Vial : 16 Sample Multiplier: 1

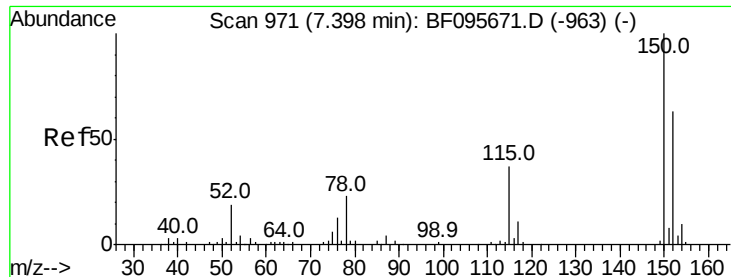
Instrument :
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CL-02-061217-D

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Quant Time: Jun 14 15:56:32 2017
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#1

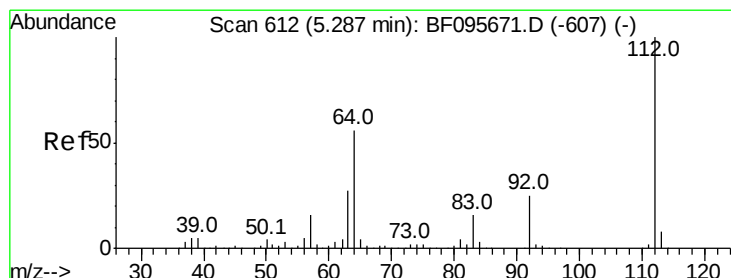
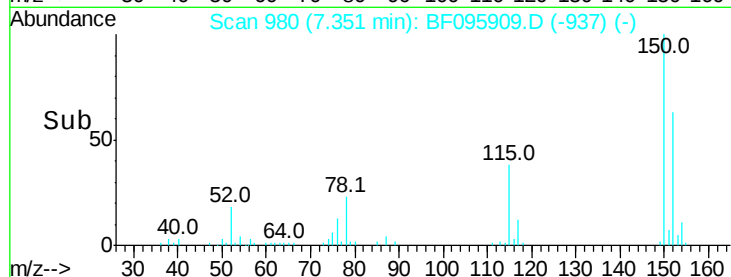
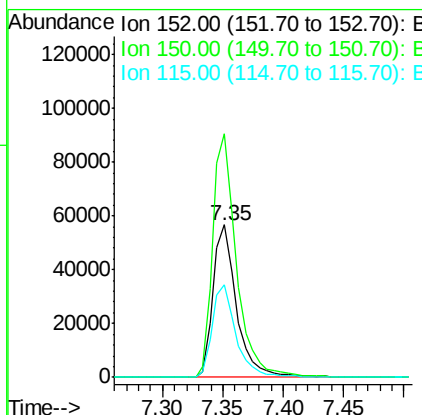
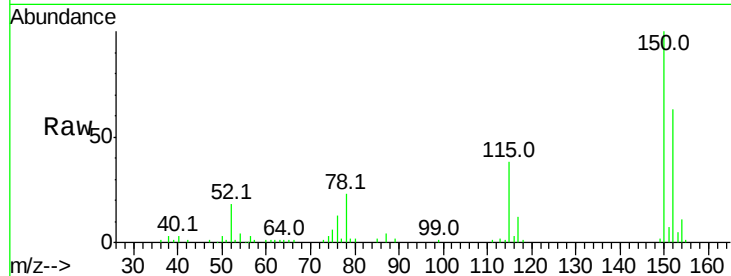
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.35 min Scan# 980
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	126.2	189.2
115	61.0	52.2	78.2

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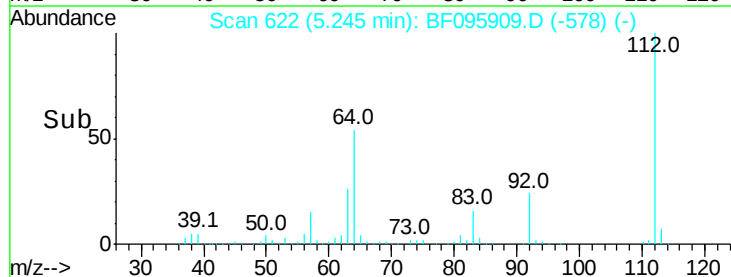
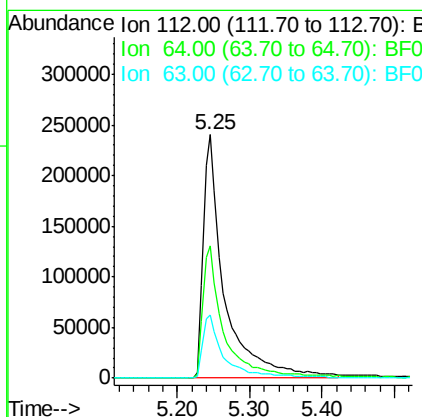
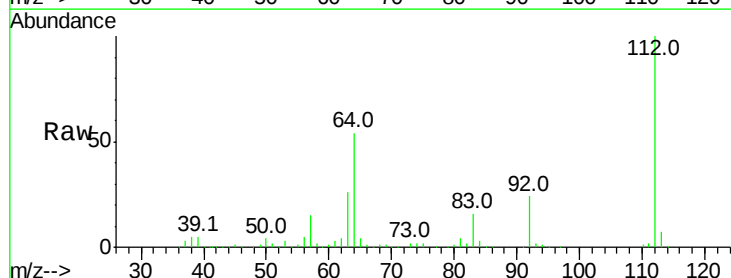
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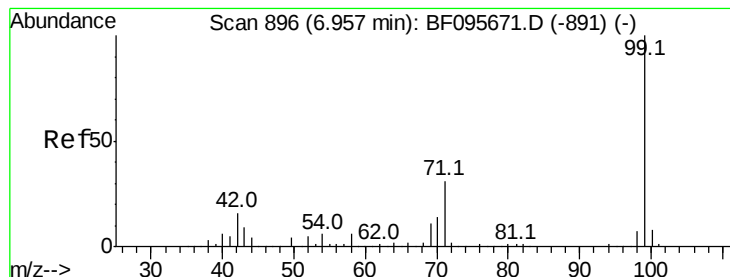


#5

2-Fluorophenol
Concen: 102.47 ng
RT: 5.25 min Scan# 622
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	46.0	69.0
63	25.9	23.4	35.0





#7

Phenol-d6

Concen: 103.20 ng

RT: 6.92 min Scan# 906

Delta R.T. -0.04 min

Lab File: BF095909.D

Acq: 13 Jun 2017 23:28

Instrument :

BNA_F

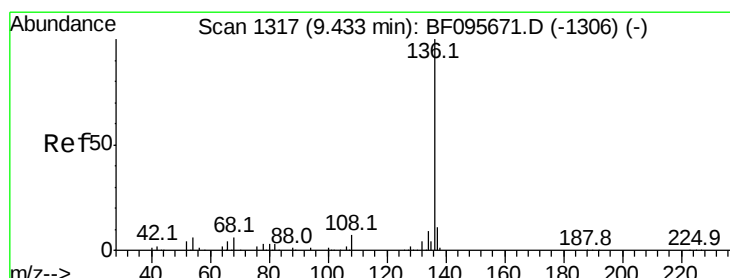
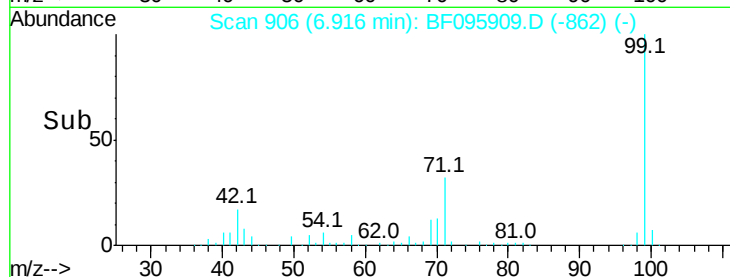
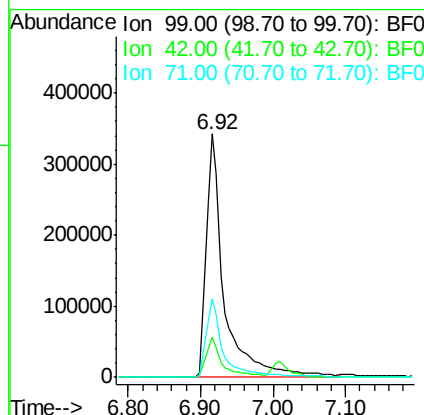
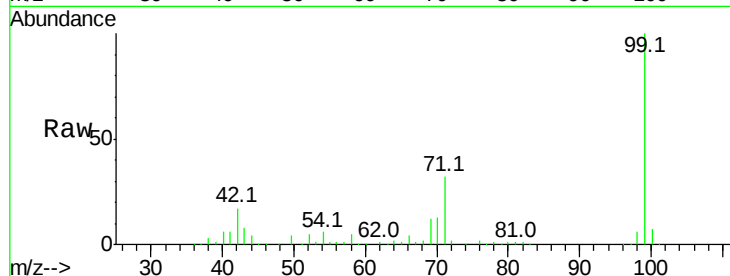
ClientSampleId :

CL-02-061217-D

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		590972		
42	16.6	13.5	20.3		
71	32.2	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

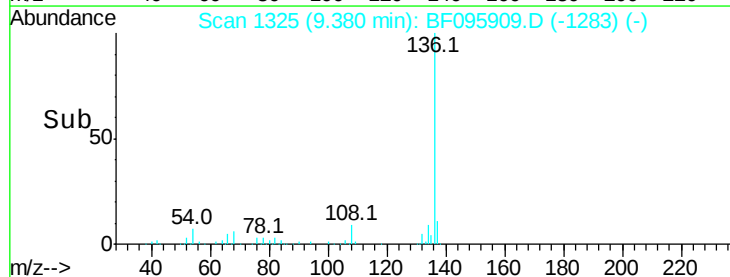
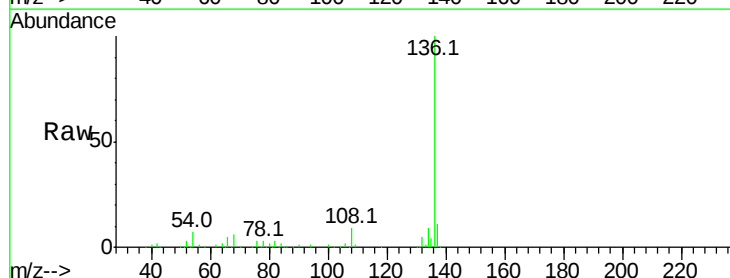
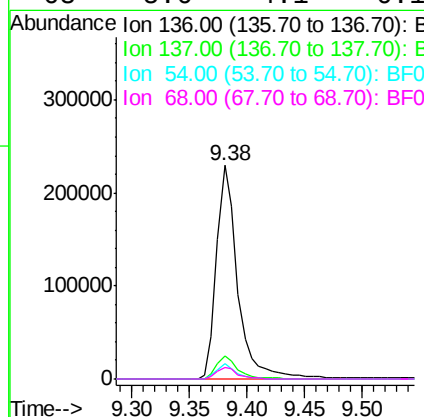
RT: 9.38 min Scan# 1325

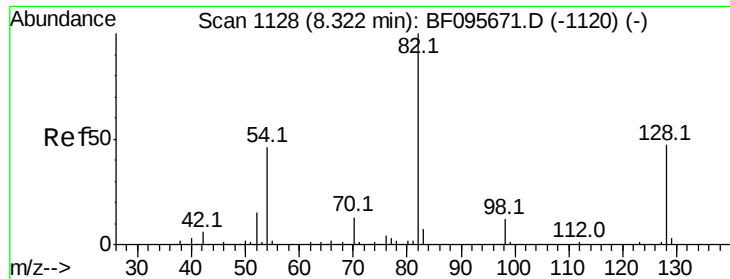
Delta R.T. -0.05 min

Lab File: BF095909.D

Acq: 13 Jun 2017 23:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		295678		
137	10.6	8.5	12.7		
54	6.9	4.9	7.3		
68	5.6	4.1	6.1		





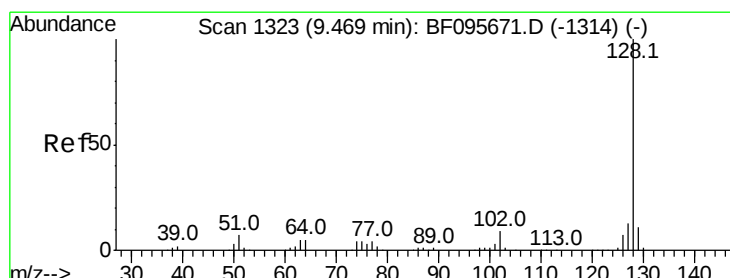
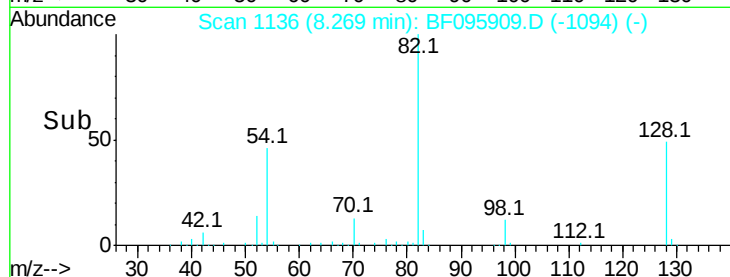
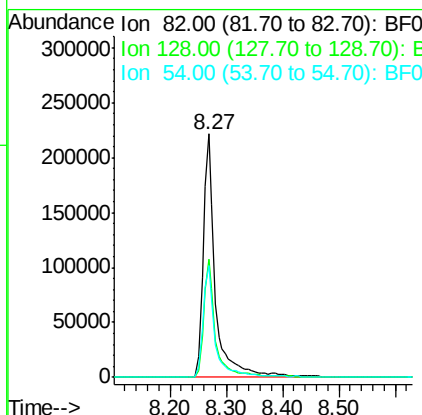
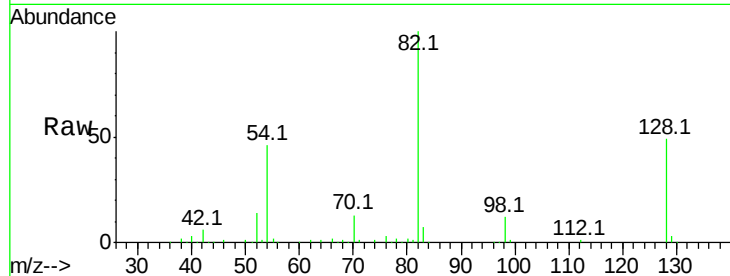
#23
Nitrobenzene-d5
Concen: 70.83 ng
RT: 8.27 min Scan# 1136
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.6	34.0	51.0
54	45.8	42.2	63.2

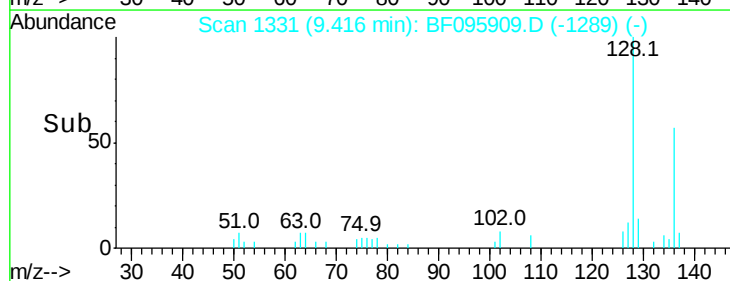
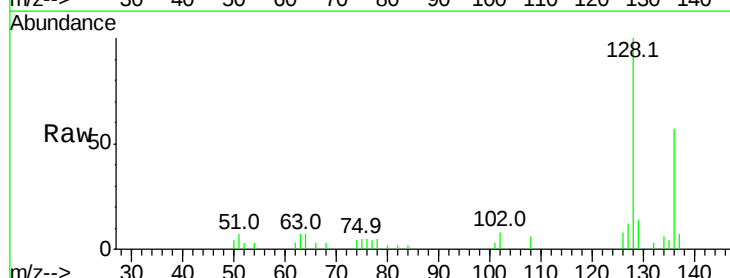
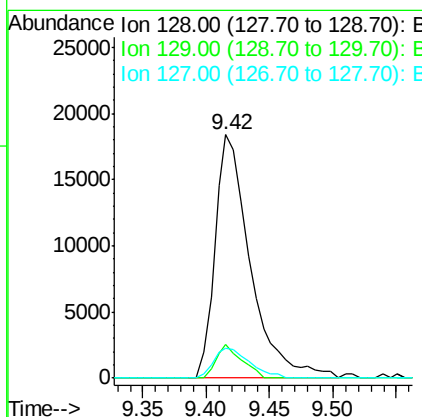
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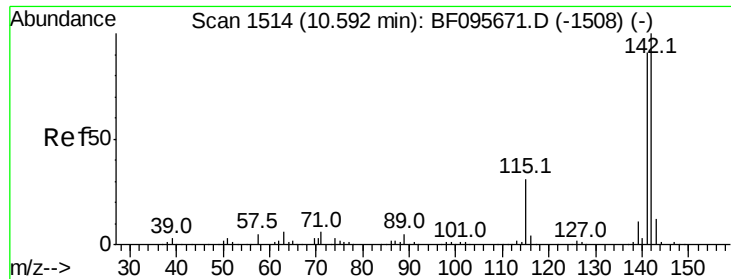
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#31
Naphthalene
Concen: 2.40 ng
RT: 9.42 min Scan# 1331
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.0	13.6#
127	12.4	10.8	16.2





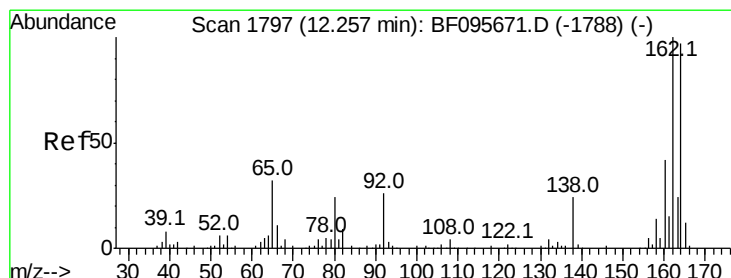
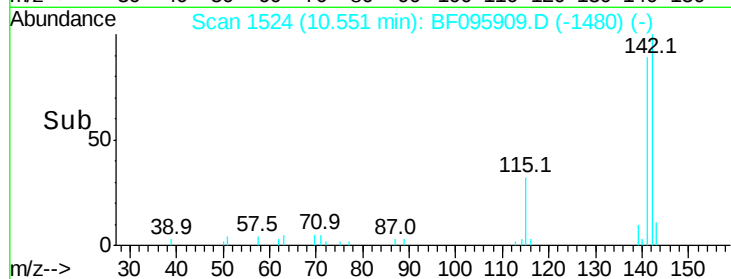
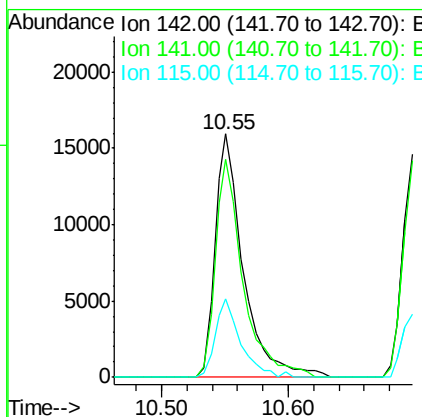
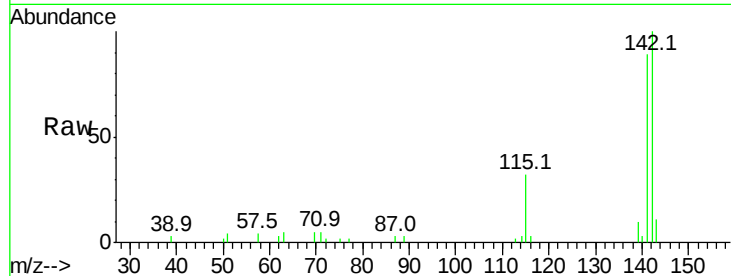
#37
2-Methylnaphthalene
Concen: 2.47 ng
RT: 10.55 min Scan# 1524
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.3	106.9
115	32.3	27.1	40.7

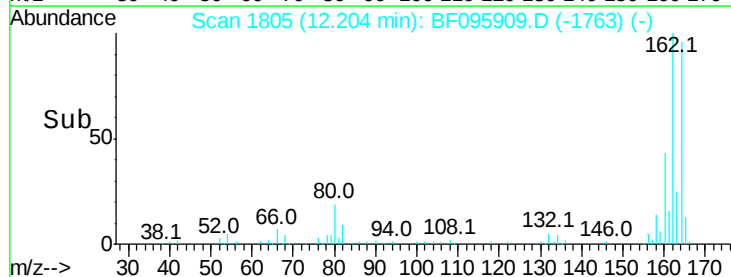
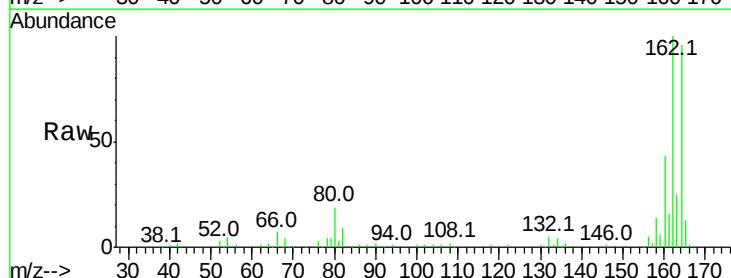
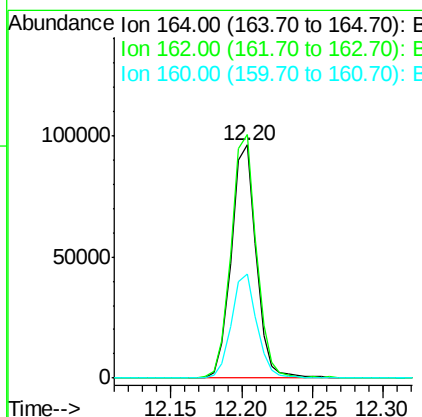
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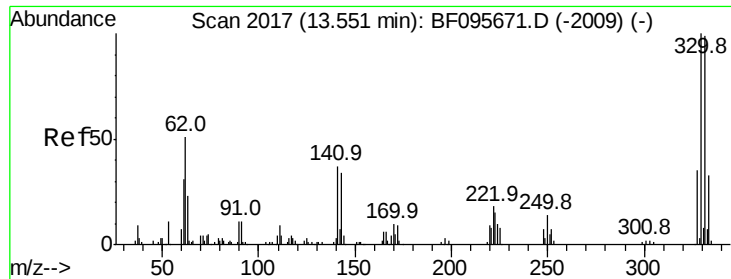
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.20 min Scan# 1805
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.6	123.8
160	45.0	36.2	54.2





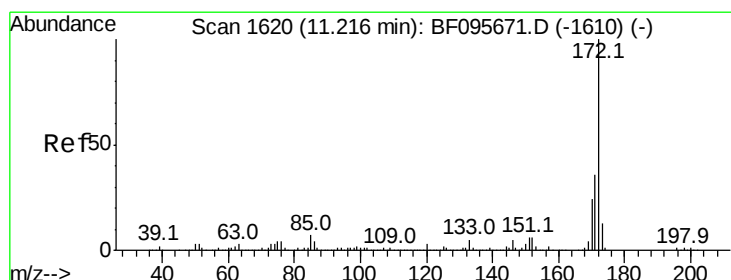
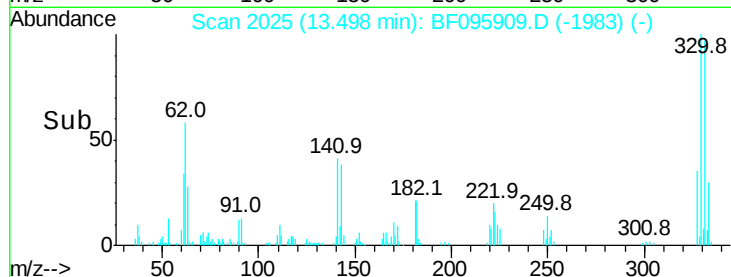
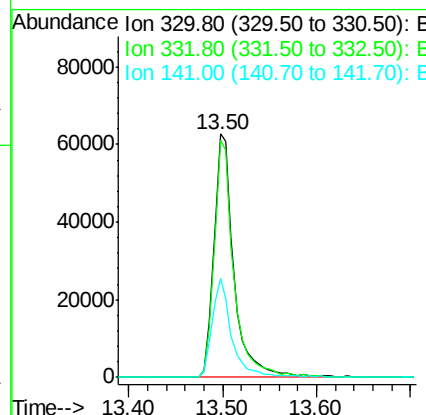
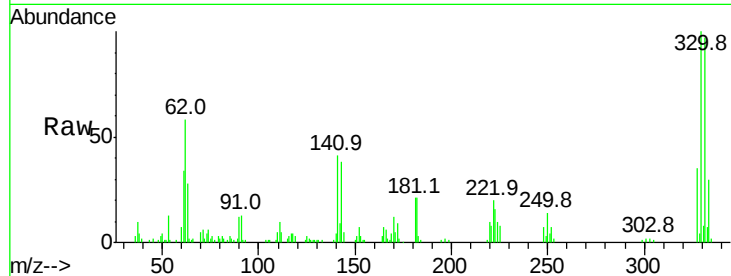
#41
 2,4,6-Tribromophenol
 Concen: 89.98 ng
 RT: 13.50 min Scan# 2025
 Delta R.T. -0.05 min
 Lab File: BF095909.D
 Acq: 13 Jun 2017 23:28

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-061217-D

Tot Ion	Ratio	Resp	Lower	Upper
330	100	94112		
332	95.7	76.6	115.0	
141	39.3	31.4	47.2	

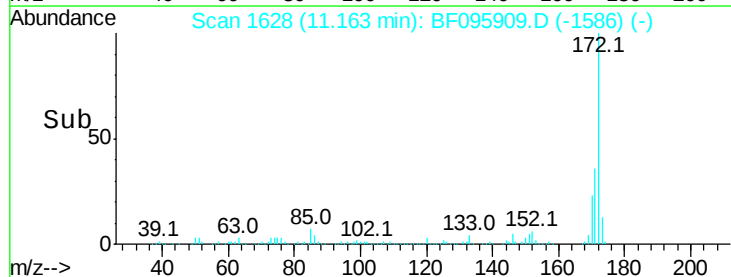
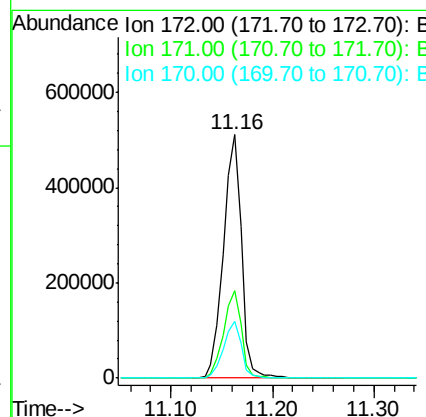
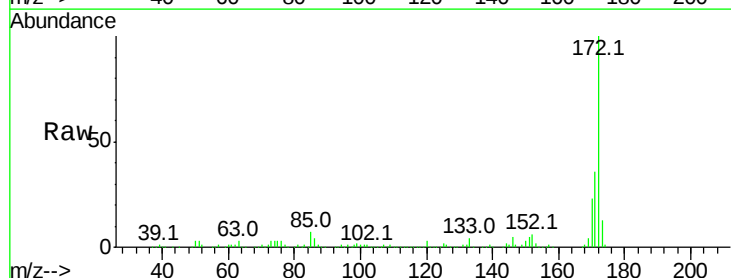
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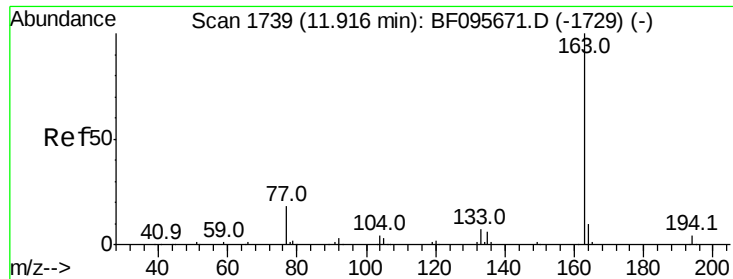
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#44
 2-Fluorobiphenyl
 Concen: 74.42 ng
 RT: 11.16 min Scan# 1628
 Delta R.T. -0.05 min
 Lab File: BF095909.D
 Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	632197		
171	35.7	29.6	44.4	
170	23.3	19.8	29.8	





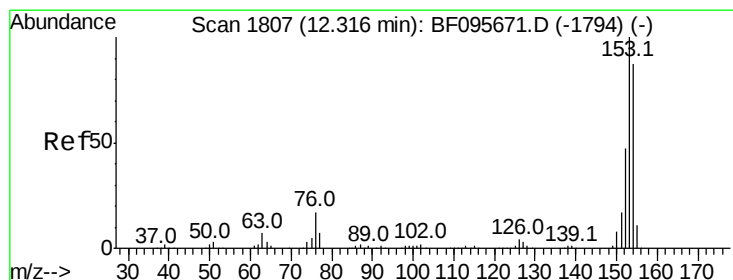
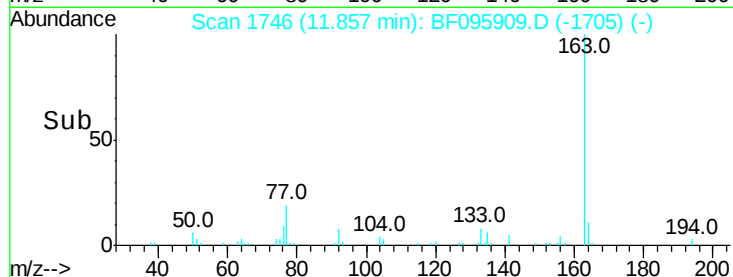
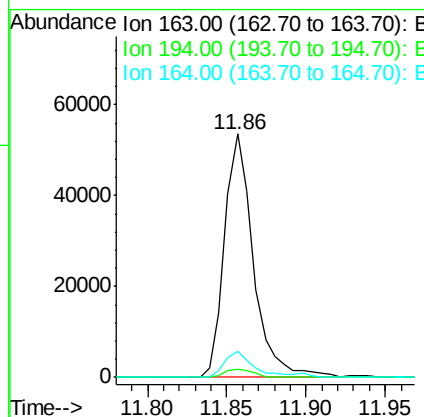
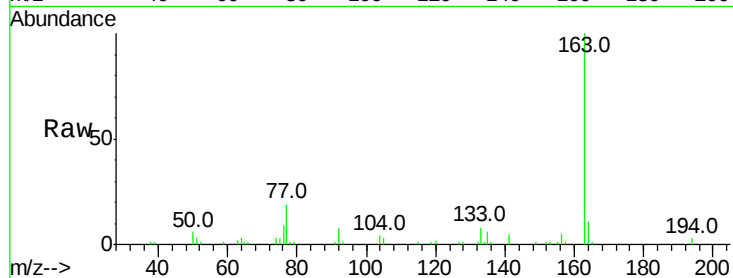
#49
Dimethylphthalate
Concen: 7.56 ng
RT: 11.86 min Scan# 1746
Delta R.T. -0.06 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampled :
CL-02-061217-D

Tot Ion	Ratio	Resp	Lower	Upper
163	100	67892		
194	3.2		2.6	4.0
164	10.9		8.4	12.6

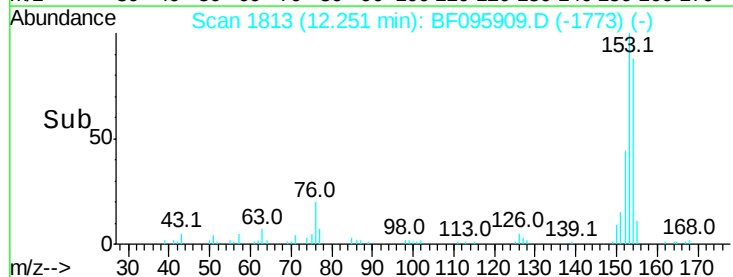
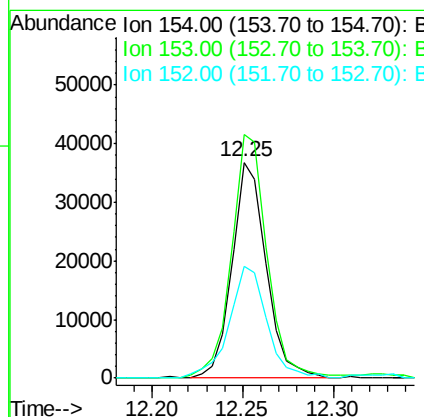
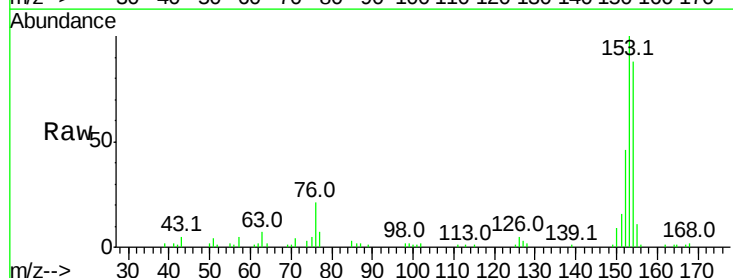
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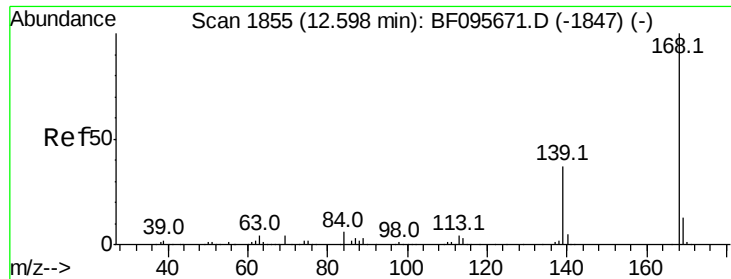
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#51
Acenaphthene
Concen: 6.42 ng
RT: 12.25 min Scan# 1813
Delta R.T. -0.06 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	48264		
153	113.0		90.5	135.7
152	52.1		43.6	65.4





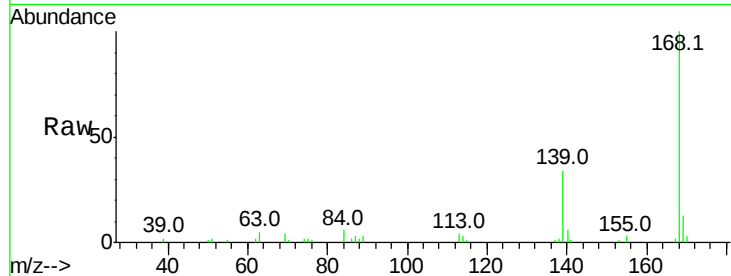
#54
Dibenzenofuran
Concen: 5.86 ng
RT: 12.55 min Scan# 1864
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

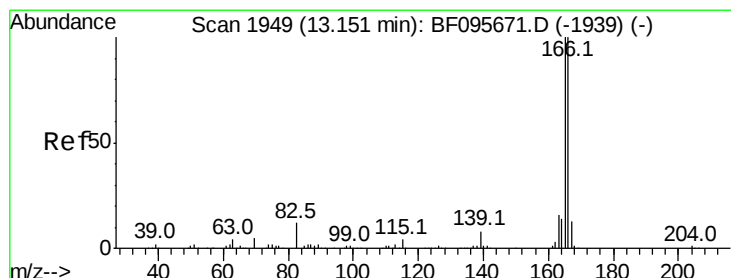
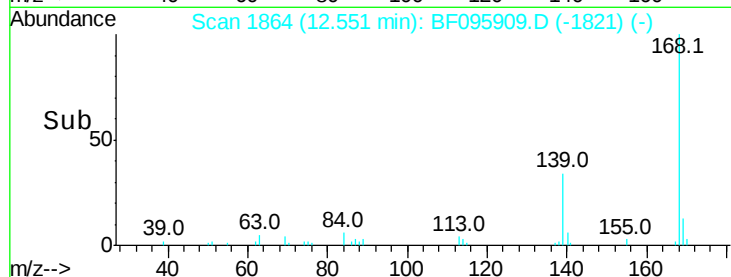
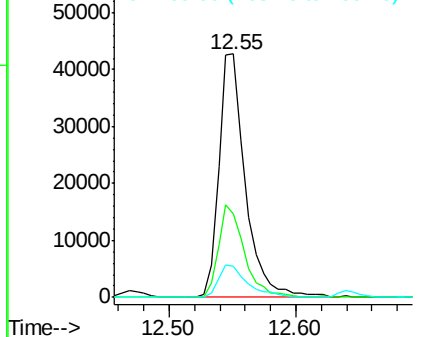
Tot Ion	Ratio	Lower	Upper
168	100		
139	34.5	30.6	45.8
169	12.6	10.8	16.2

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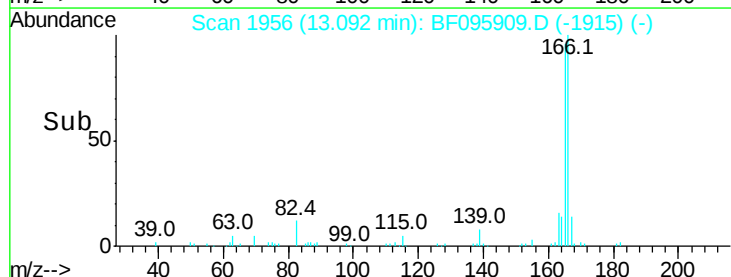
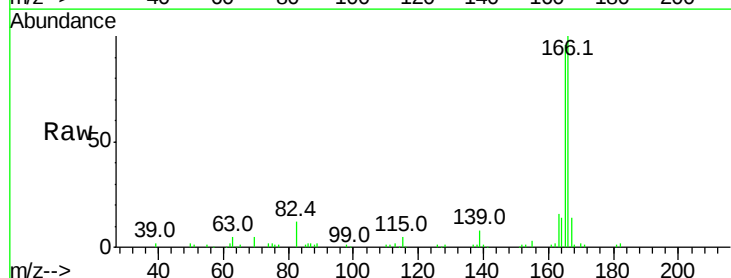
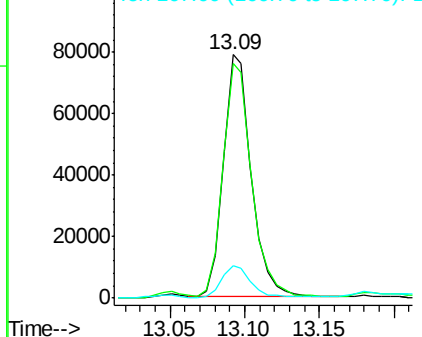
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

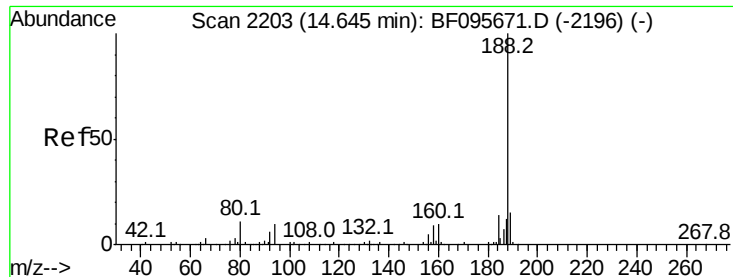


#57
Fluorene
Concen: 11.26 ng
RT: 13.09 min Scan# 1956
Delta R.T. -0.06 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.4	78.8	118.2
167	13.5	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





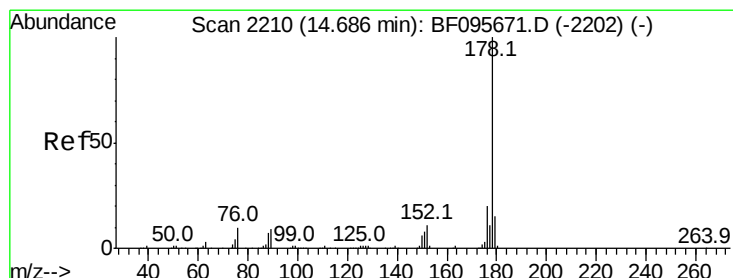
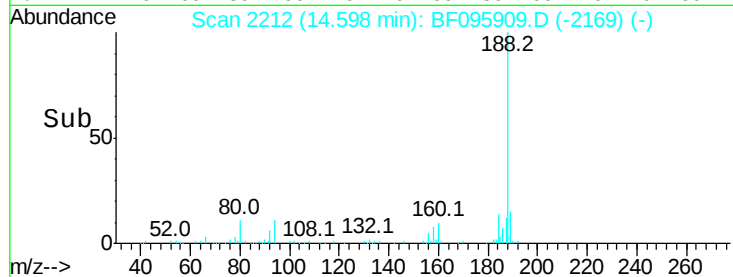
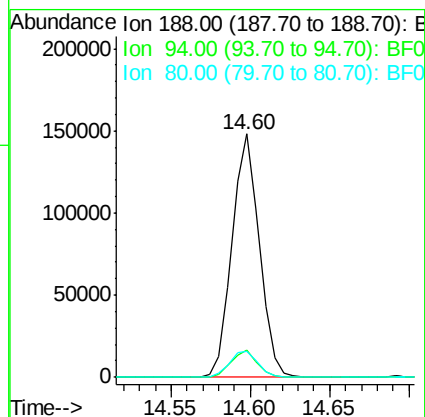
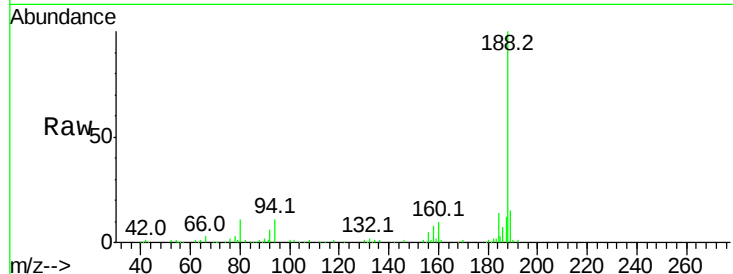
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.60 min Scan# 2212
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.5	9.4	14.2
80	10.9	10.2	15.2

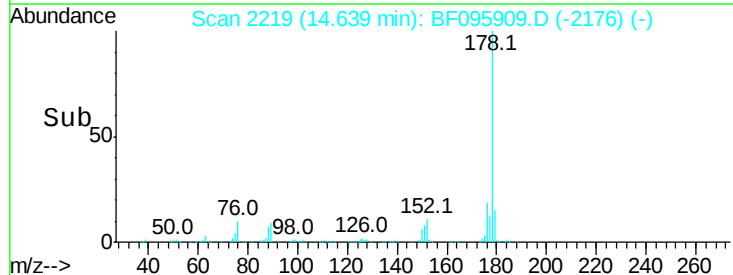
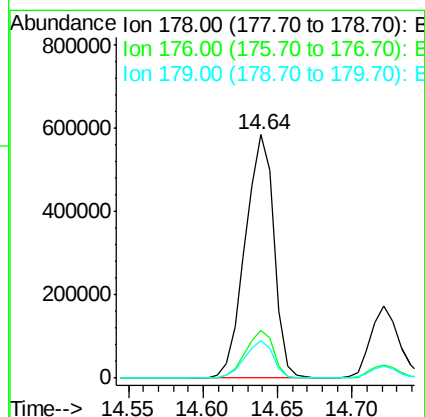
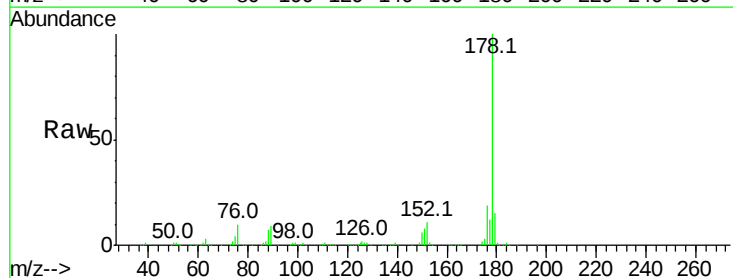
Manual Integrations
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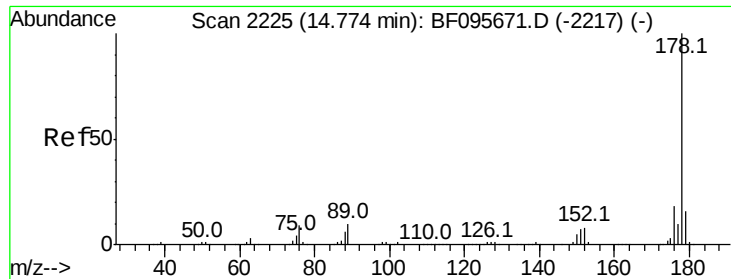
mohammad
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#70
Phenanthrene
Concen: 76.70 ng
RT: 14.64 min Scan# 2219
Delta R.T. -0.05 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	16.2	24.4
179	15.5	12.6	19.0





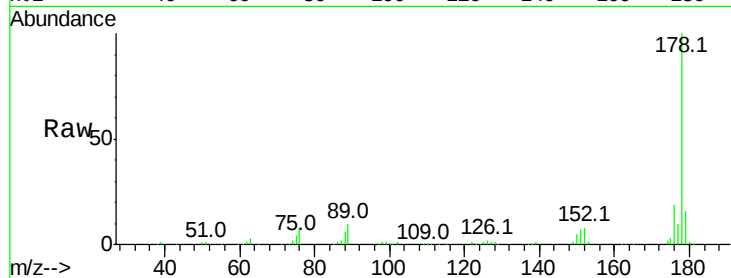
#71
 Anthracene
 Concen: 21.74 ng
 RT: 14.72 min Scan# 2233
 Delta R.T. -0.05 min
 Lab File: BF095909.D
 Acq: 13 Jun 2017 23:28

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-061217-D

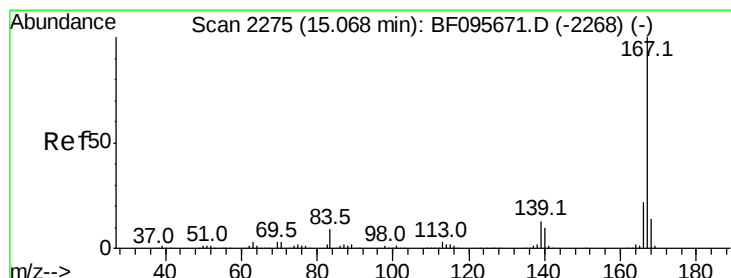
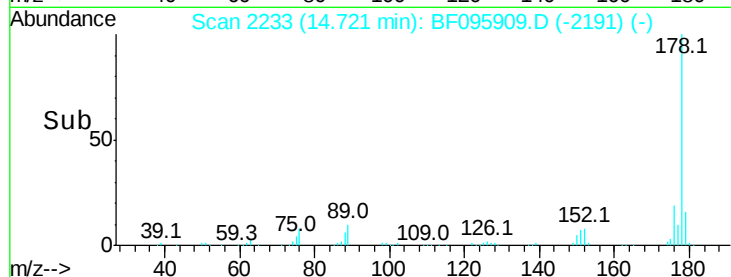
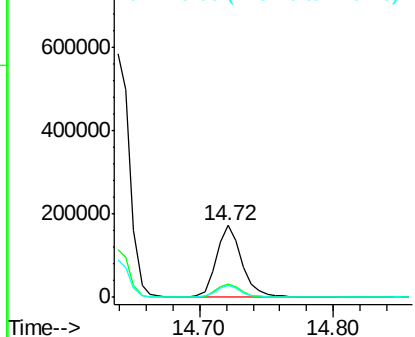
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.8	12.7	19.1

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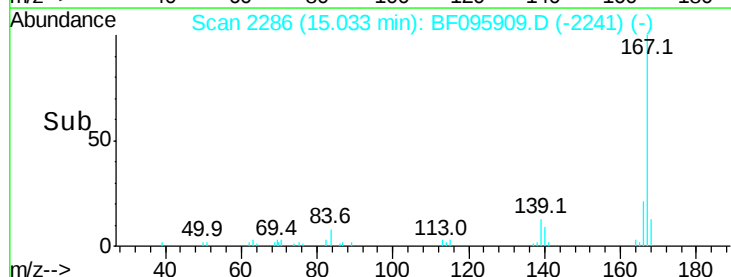
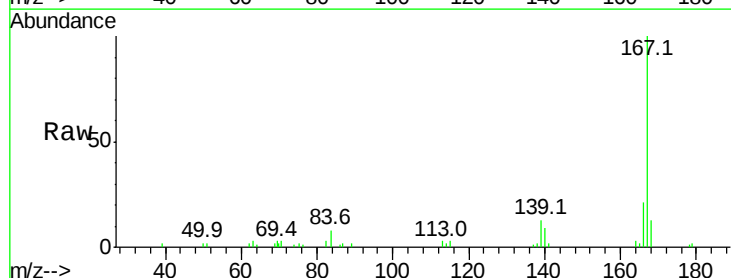
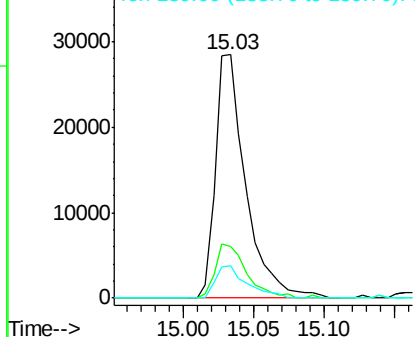
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

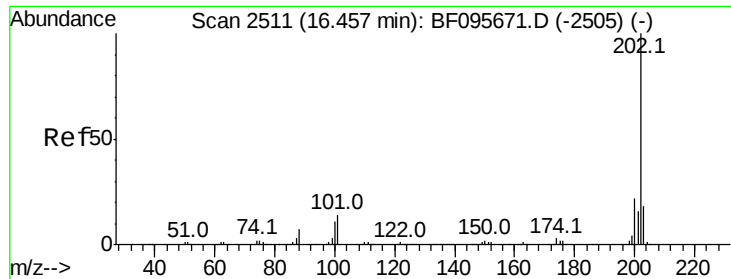


#72
 Carbazole
 Concen: 4.09 ng
 RT: 15.03 min Scan# 2286
 Delta R.T. -0.04 min
 Lab File: BF095909.D
 Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	18.1	27.1
139	13.3	11.7	17.5

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 92.23 ng

RT: 16.43 min Scan# 2523

Delta R.T. -0.03 min

Lab File: BF095909.D

Acq: 13 Jun 2017 23:28

Instrument :

BNA_F

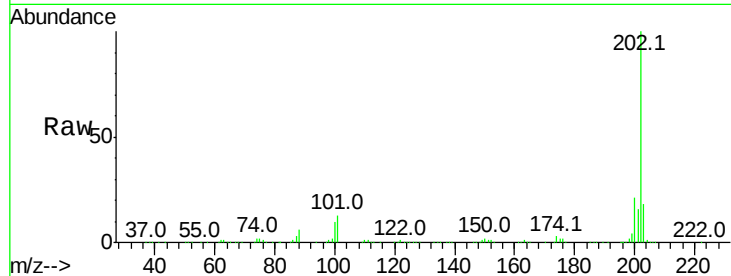
ClientSampleId :

CL-02-061217-D

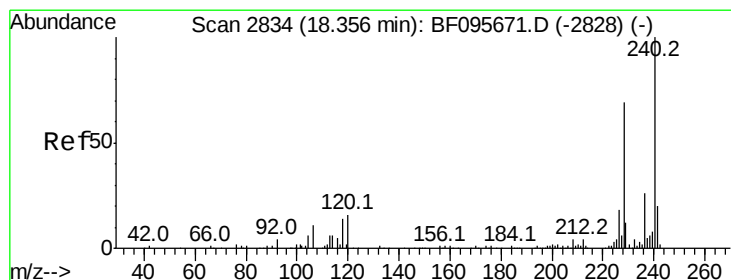
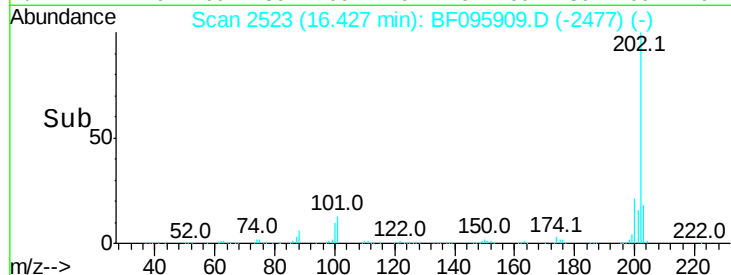
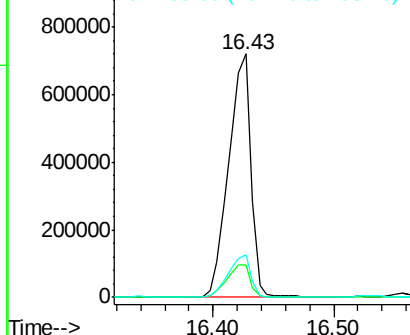
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		926959		
101	13.1	0.0	33.2		
203	17.6	0.0	38.1		

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

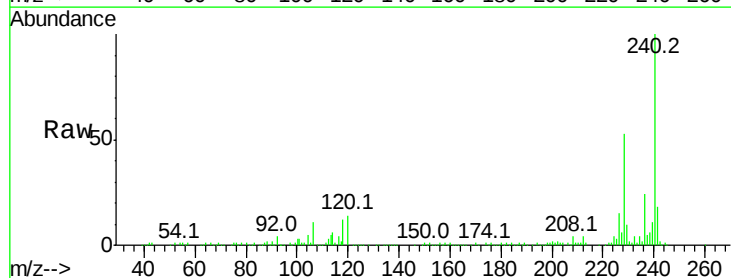
RT: 18.32 min Scan# 2845

Delta R.T. -0.04 min

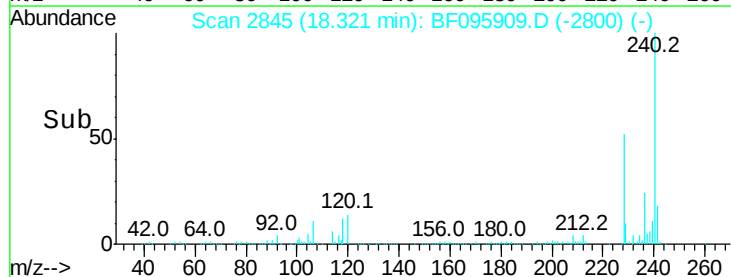
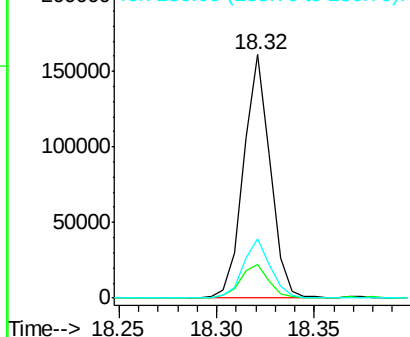
Lab File: BF095909.D

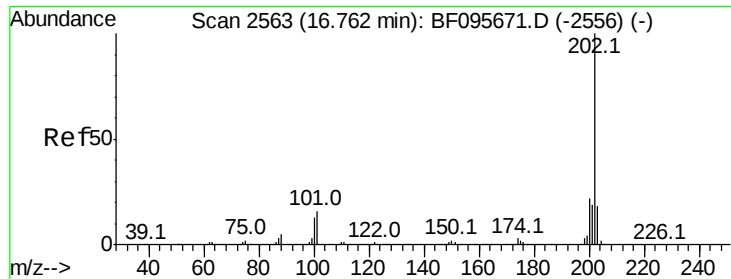
Acq: 13 Jun 2017 23:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		152787		
120	13.9	5.8	8.8#		
236	24.2	20.5	30.7		



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





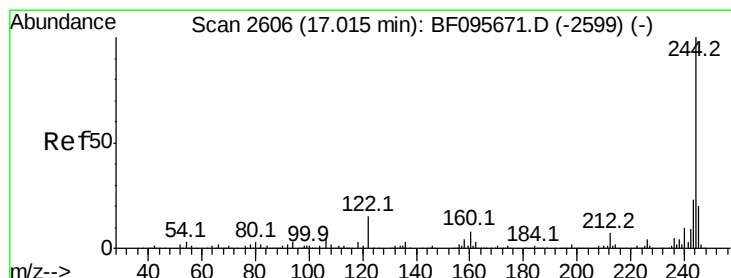
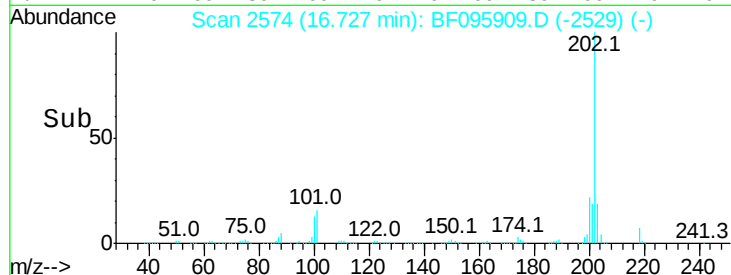
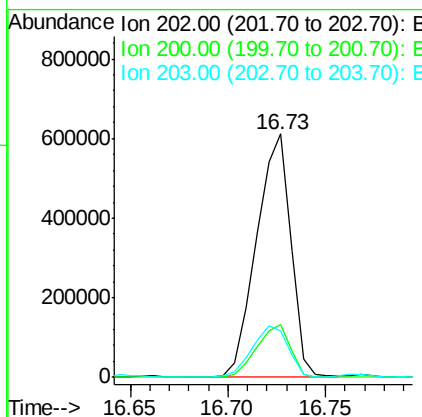
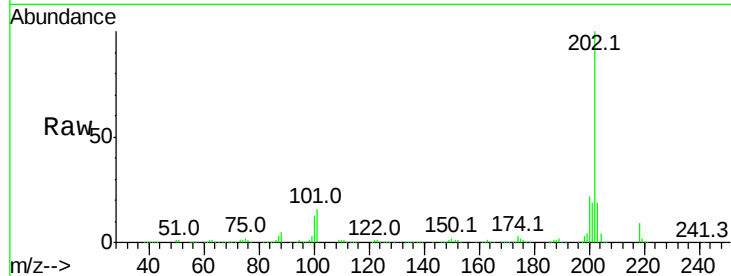
#77
Pvrene
Concen: 65.37 ng
RT: 16.73 min Scan# 2574
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	19.3	14.4	21.6

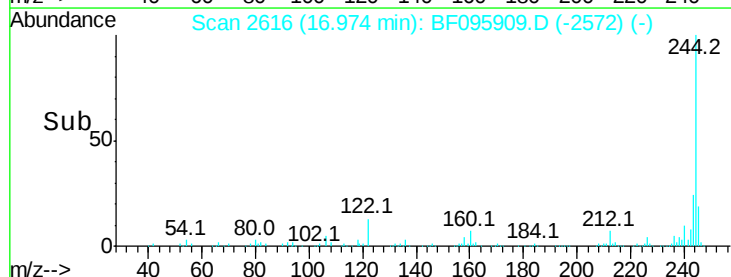
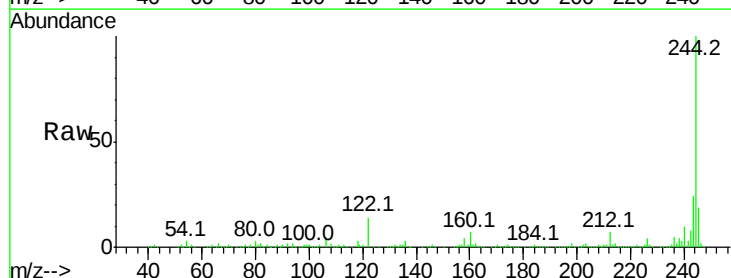
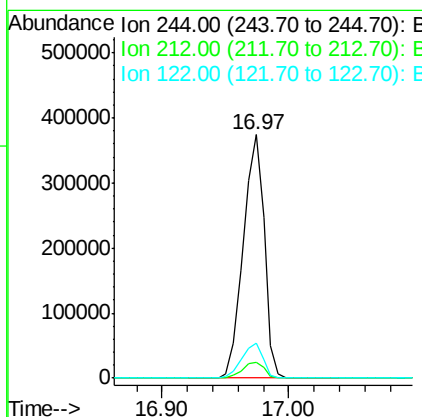
Manual Integrations
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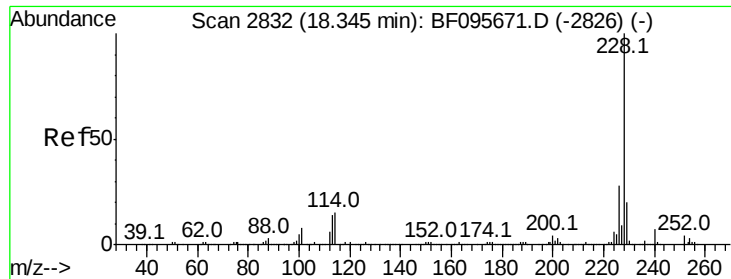
mohammad
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#78
Terphenyl-d14
Concen: 69.51 ng
RT: 16.97 min Scan# 2616
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	14.1	10.3	15.5





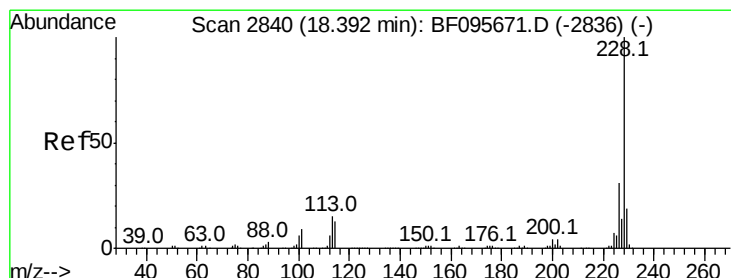
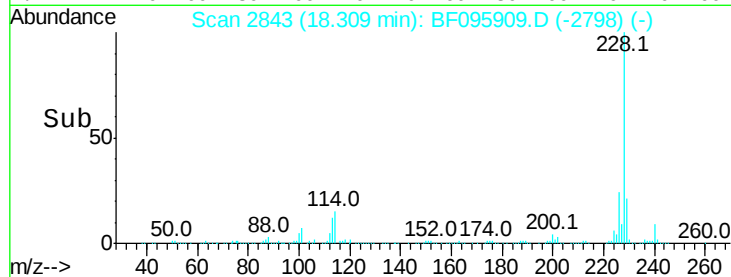
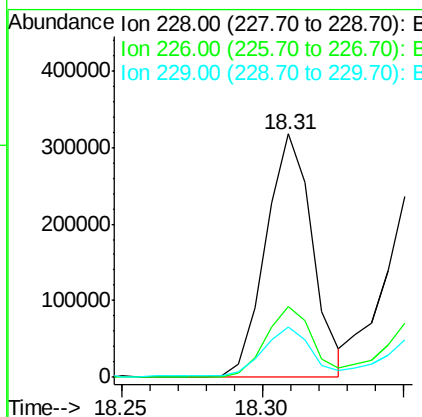
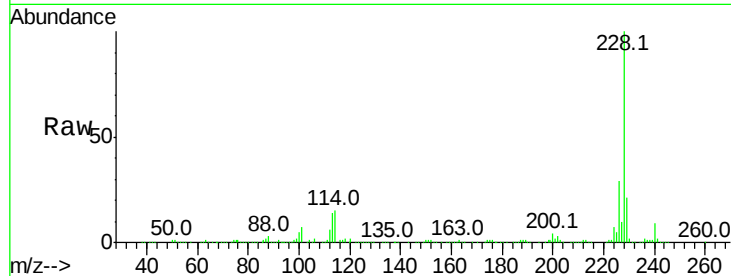
#80
Benzo(a)anthracene
Concen: 40.81 ng
RT: 18.31 min Scan# 2843
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	20.6	16.3	24.5

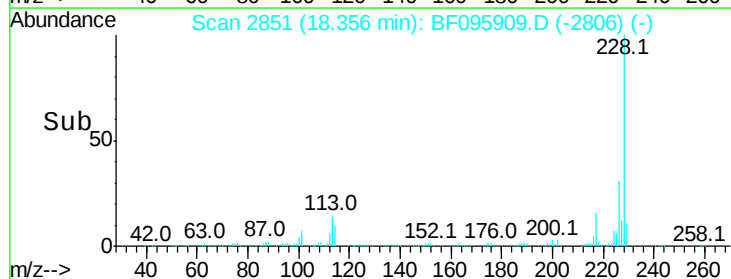
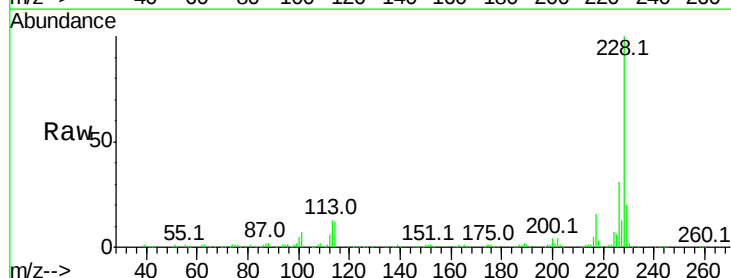
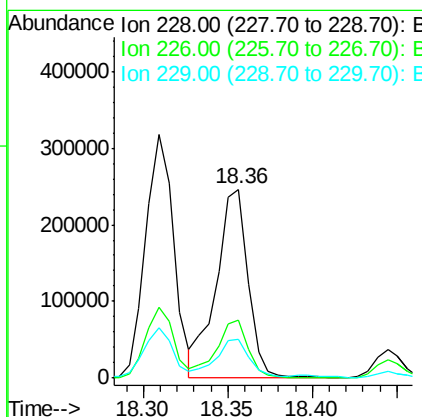
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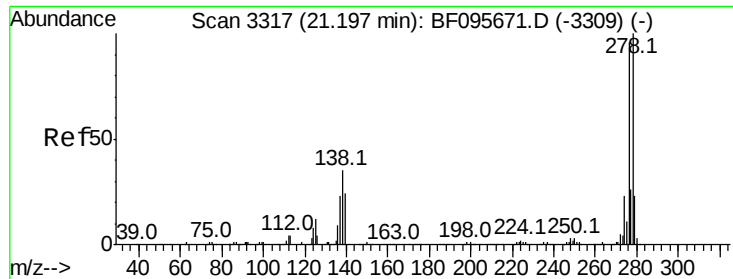
mohammad
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#82
Chrysene
Concen: 36.41 ng
RT: 18.36 min Scan# 2851
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	20.4	15.8	23.6





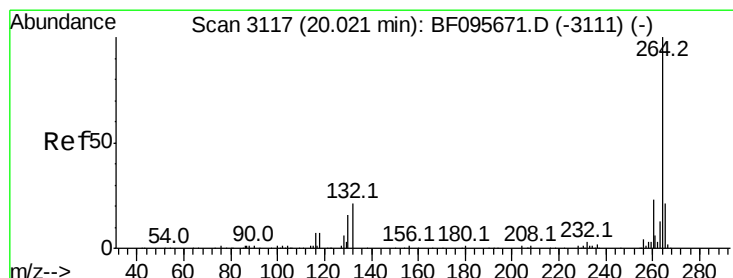
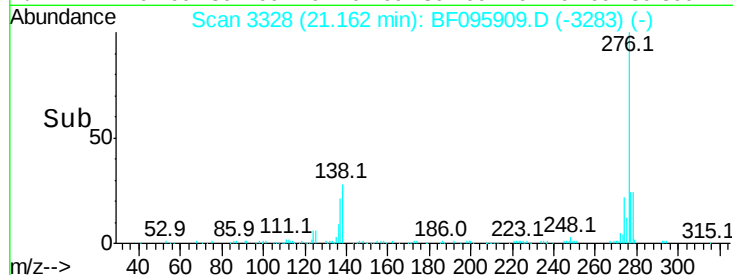
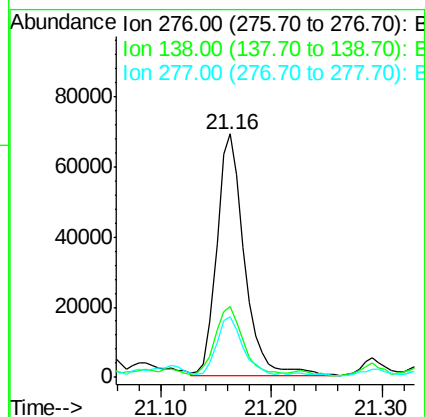
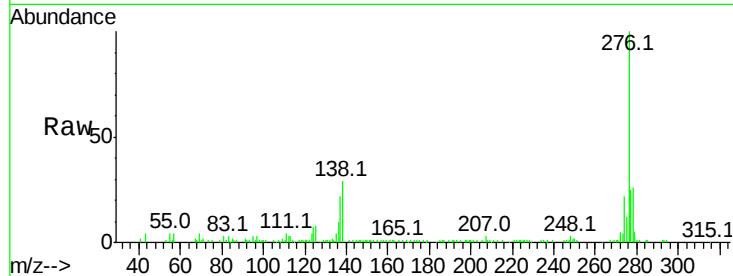
#85
Indeno(1,2,3-cd)pyrene
Concen: 15.56 ng
RT: 21.16 min Scan# 3328
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.5	27.8	41.6
277	24.0	20.2	30.4

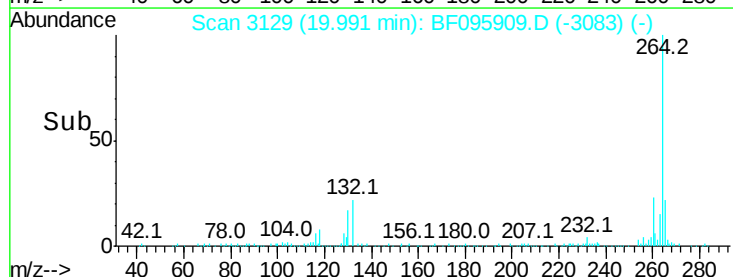
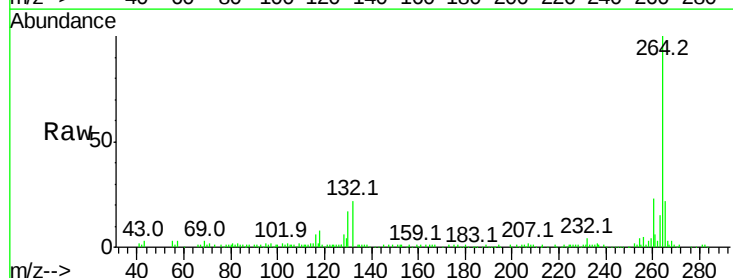
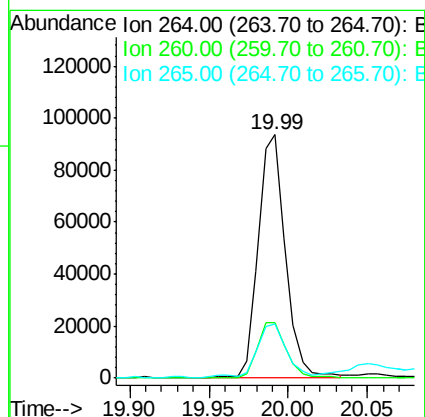
Manual Integrations
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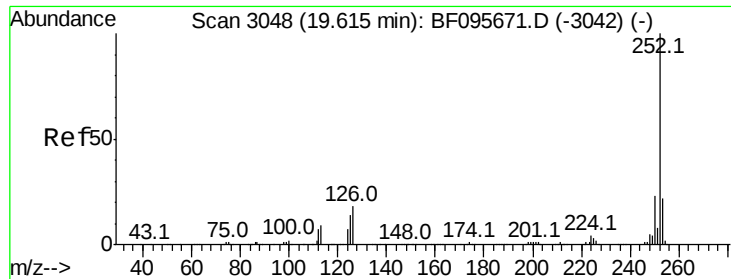
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 19.99 min Scan# 3129
Delta R.T. -0.03 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.5	29.3
265	22.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 45.99 ng m

RT: 19.59 min Scan# 3060

Delta R.T. -0.03 min

Lab File: BF095909.D

Acq: 13 Jun 2017 23:28

Instrument :

BNA_F

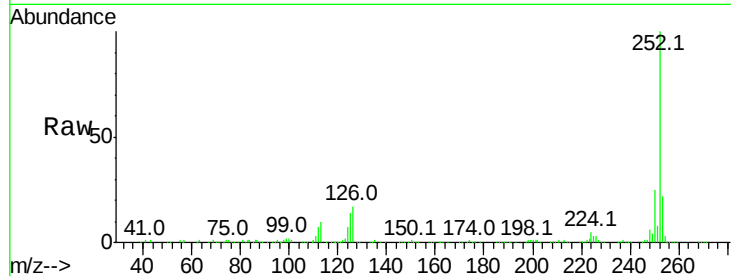
ClientSampleId :

CL-02-061217-D

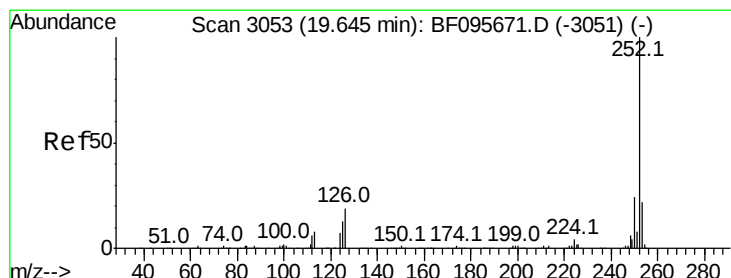
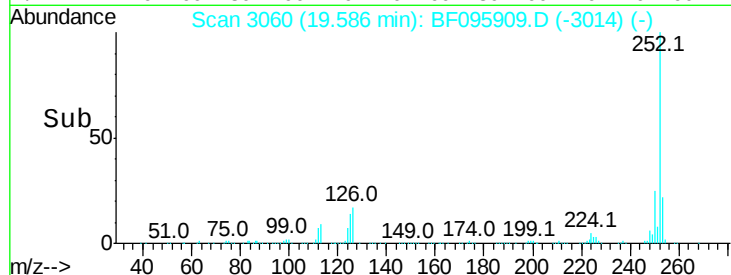
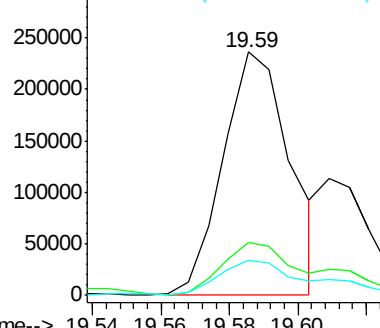
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	14.5	9.8	14.8

Manual Integrations
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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



#88

Benzo(k)fluoranthene

Concen: 17.17 ng m

RT: 19.61 min Scan# 3064

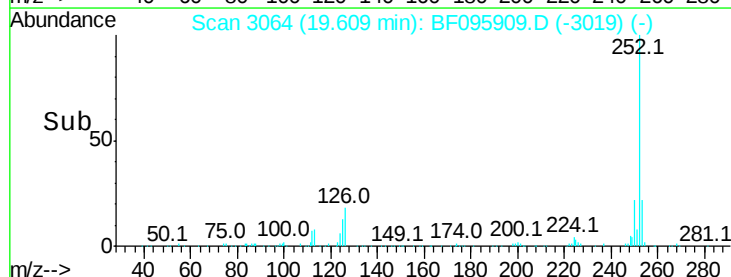
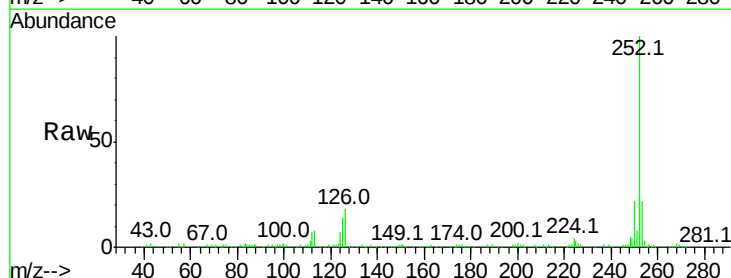
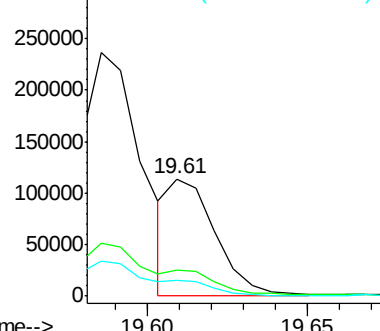
Delta R.T. -0.04 min

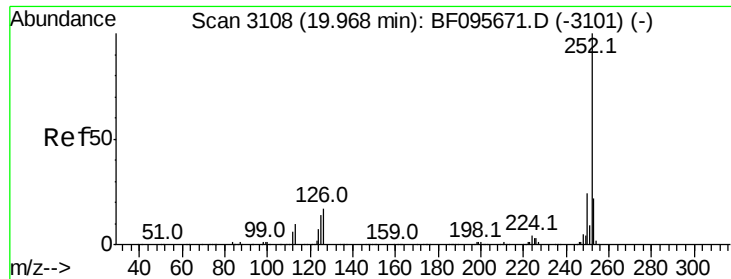
Lab File: BF095909.D

Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.4	27.6
125	13.7	13.1	19.7

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





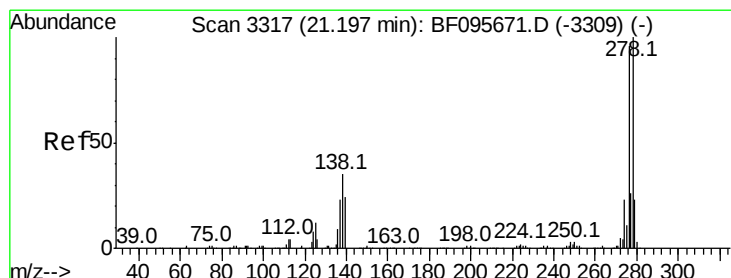
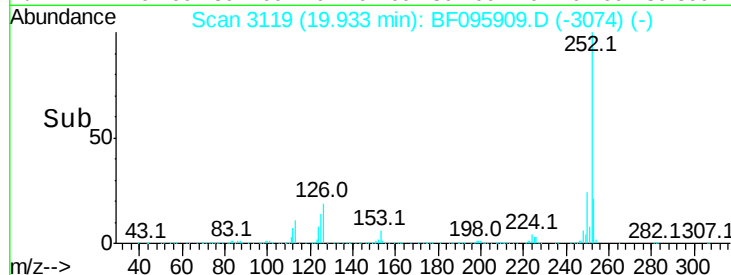
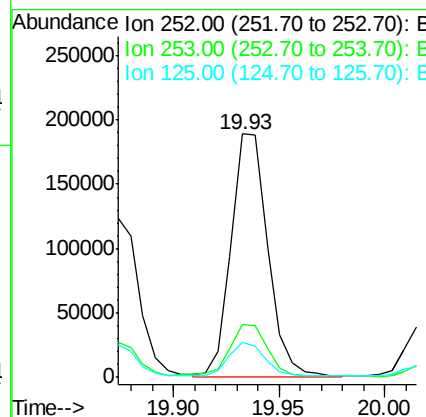
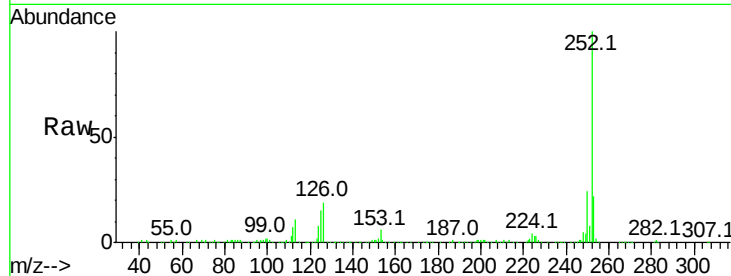
#89
Benzo(a)pyrene
Concen: 34.90 ng
RT: 19.93 min Scan# 3119
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	14.6	11.0	16.4

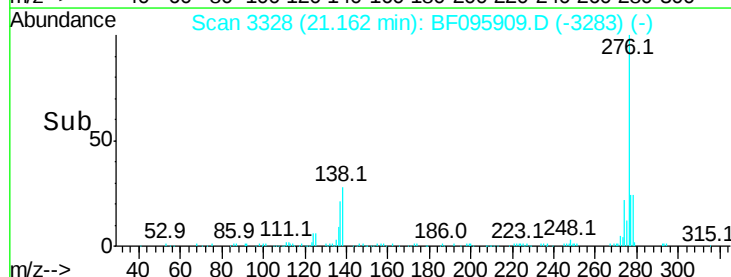
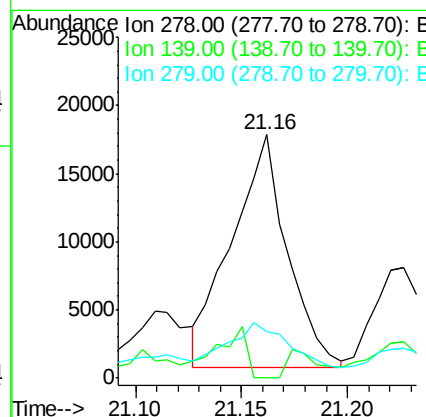
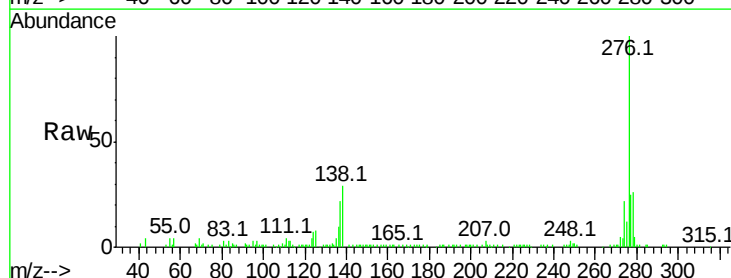
Manual Integrations
APPROVED

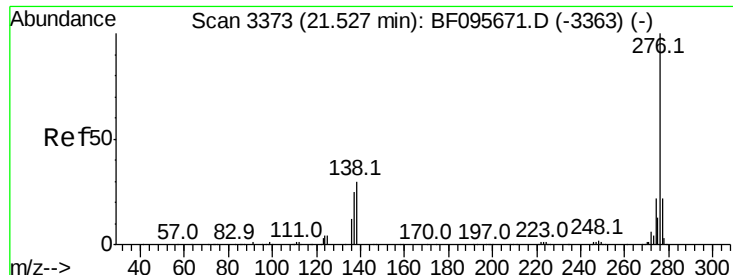
mohammad
6/14/2017 4:24:55 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.73 ng m
RT: 21.16 min Scan# 3328
Delta R.T. -0.04 min
Lab File: BF095909.D
Acq: 13 Jun 2017 23:28

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	19.2	19.3	28.9#





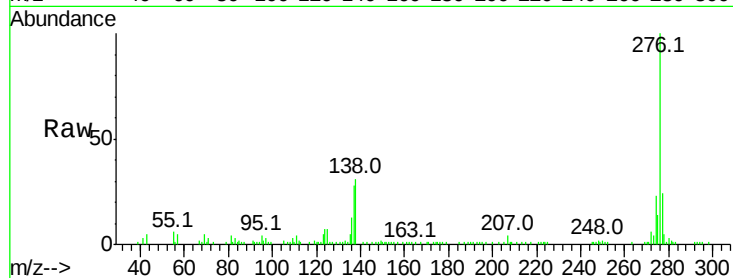
#91
 Benzo(a,h,i)perylene
 Concen: 18.24 ng
 RT: 21.49 min Scan# 3384
 Delta R.T. -0.04 min
 Lab File: BF095909.D
 Acq: 13 Jun 2017 23:28

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-061217-D

Tot Ion:	276	Resp:	102001
Ion Ratio	Lower	Upper	
276	100		
277	23.7	18.6	28.0
138	30.5	25.4	38.0

Manual Integrations
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 6/14/2017 4:24:55 PM



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

