

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
 Data File : BF116871.D
 Acq On : 6 Sep 2019 20:29
 Operator : HP/JU
 Sample : K4721-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S700-A2-N-0.0-0.5-090519

Manual Integrations
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mohammad
 9/12/2019 9:24:59 AM

Quant Time: Sep 07 05:26:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	75006	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	293144	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	136906	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	191215	20.00	ng	0.00
76) Chrysene-d12	14.00	240	144955	20.00	ng	0.00
87) Perylene-d12	15.46	264	137994	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	361076	77.99	ng	0.00
7) Phenol-d6	6.48	99	486346	80.00	ng	0.00
23) Nitrobenzene-d5	7.40	82	295578	57.56	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	67967	74.26	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	370134	45.61	ng	-0.01
79) Terphenyl-d14	12.95	244	223391	28.51	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.59	163	52446	5.549	ng	99
52) Acenaphthene	9.91	154	54025	7.069	ng	96
55) Dibenzofuran	10.09	168	31796	2.951	ng	98
58) Fluorene	10.43	166	56262	6.854	ng	95
71) Phenanthrene	11.39	178	663370	62.322	ng	99
72) Anthracene	11.44	178	161537	15.076	ng	99
73) Carbazole	11.59	167	81109	7.947	ng	99
75) Fluoranthene	12.59	202	948588	90.681	ng	99
78) Pyrene	12.81	202	787021	61.078	ng	98
81) Benzo(a)anthracene	13.99	228	375912	40.975	ng	99
83) Chrysene	14.03	228	349807	37.010	ng	98
86) Indeno(1,2,3-cd)pyrene	16.92	276	109044	14.363	ng	96
88) Benzo(b)fluoranthene	15.04	252	379289m	45.462	ng	
89) Benzo(k)fluoranthene	15.06	252	124614m	16.382	ng	
90) Benzo(a)pyrene	15.40	252	230568	31.766	ng	98
91) Dibenzo(a,h)anthracene	16.92	278	27498m	4.328	ng	
92) Benzo(a,h,i)perylene	17.36	276	97202	15.001	ng	95

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

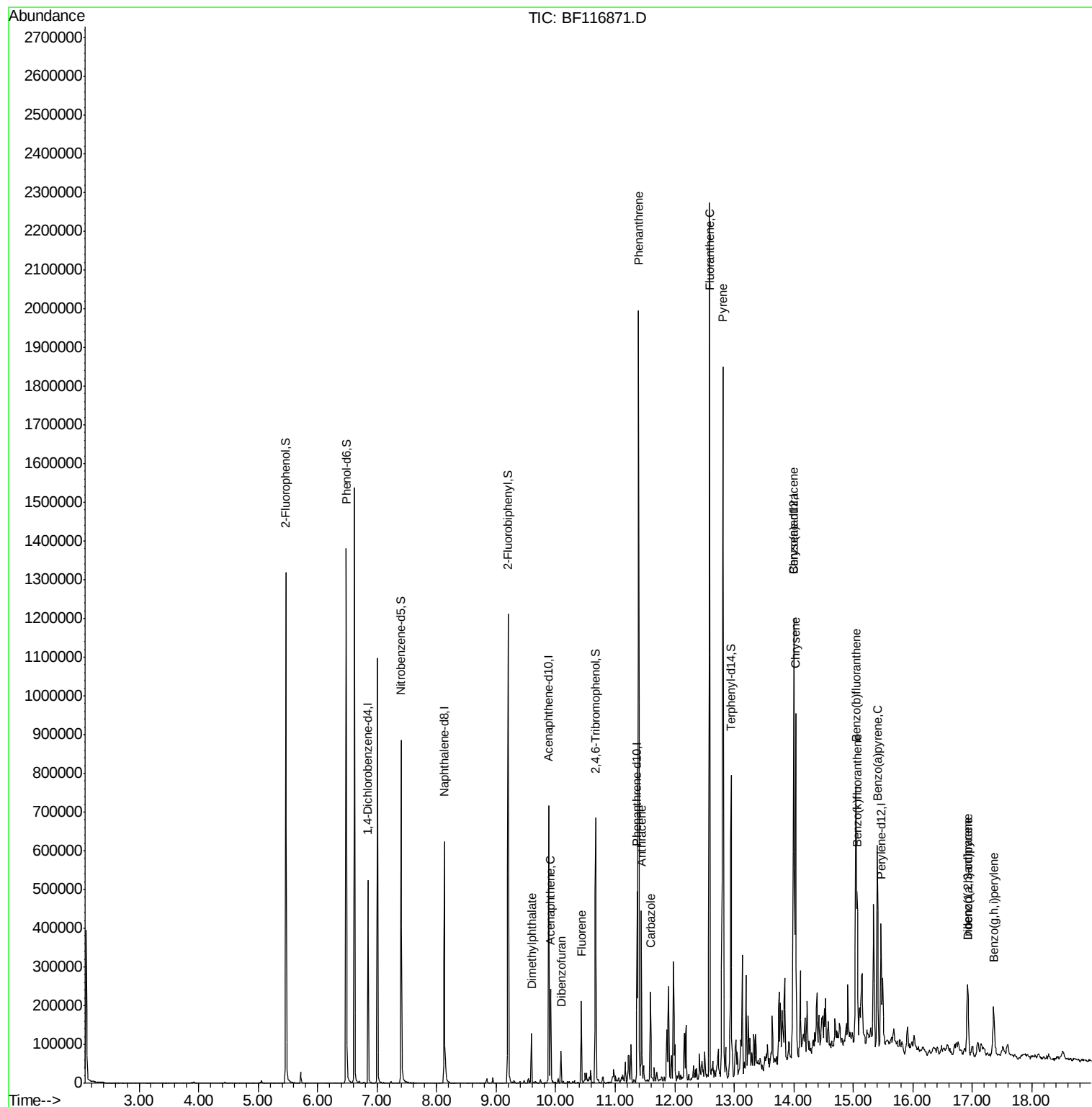
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
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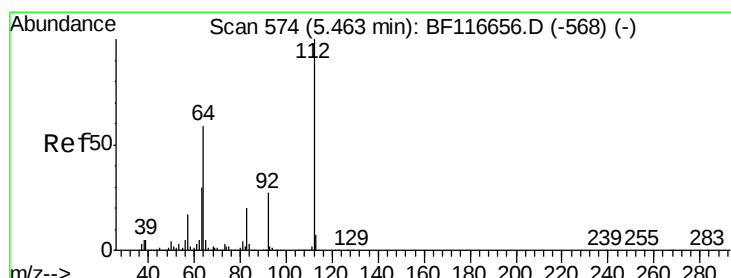
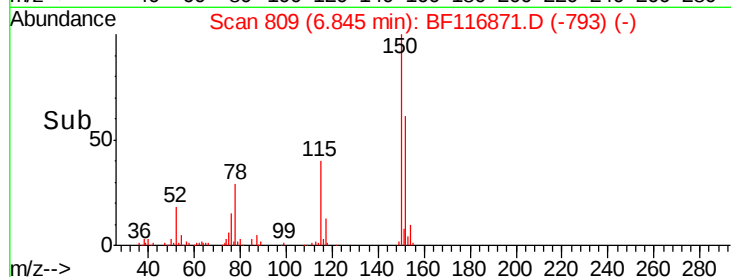
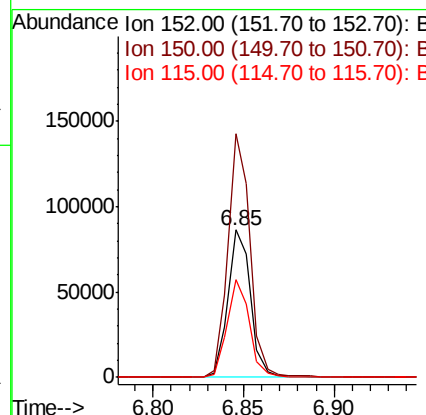
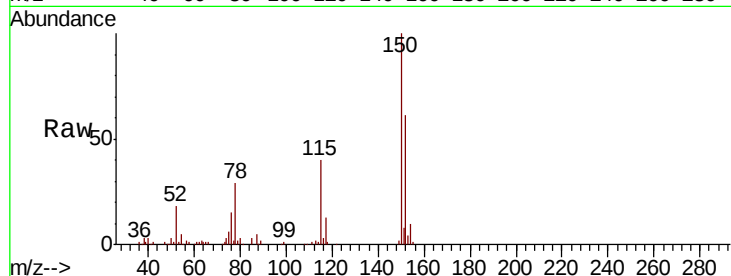
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Instrument :
 BNA_F
 ClientSampleId :
 S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.3	124.4	186.6
115	66.6	49.9	74.9

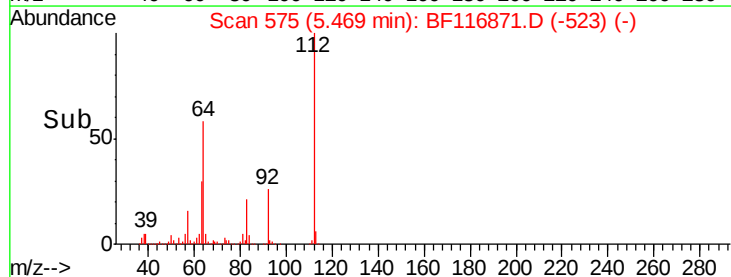
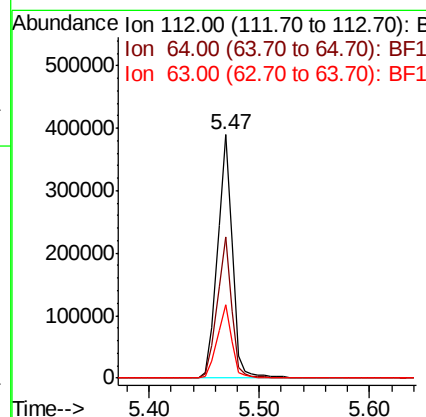
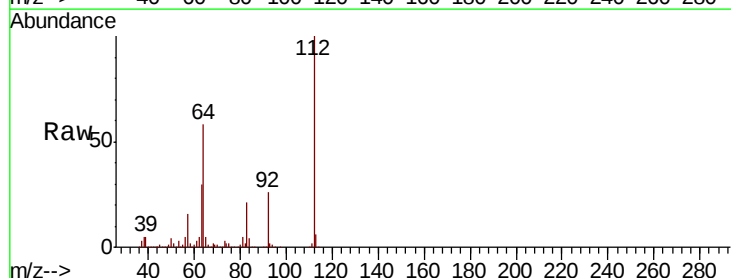
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#5
 2-Fluorophenol
 Concen: 77.989 ng
 RT: 5.47 min Scan# 575
 Delta R.T. 0.01 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.1	70.7
63	30.1	24.9	37.3





#7

Phenol-d6

Concen: 79.998 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Instrument :

BNA_F

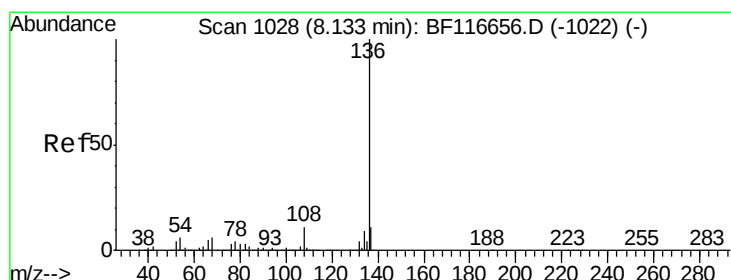
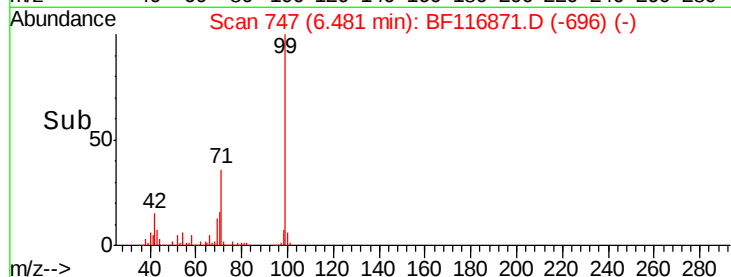
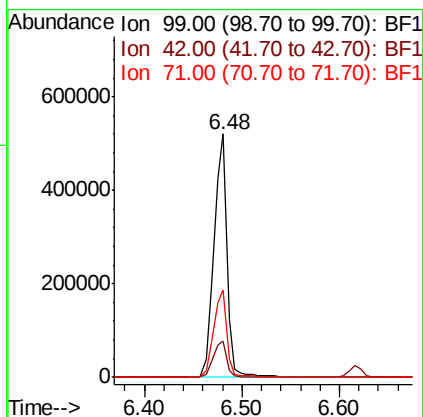
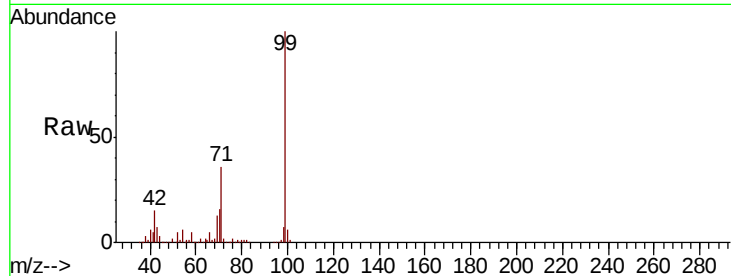
ClientSampleId :

S700-A2-N-0.0-0.5-090519

Tot Ion:	99	Resp:	486346
Ion Ratio	Lower	Upper	
99	100		
42	14.7	13.7	20.5
71	35.9	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

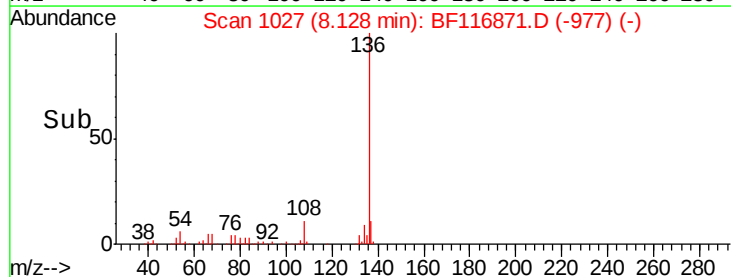
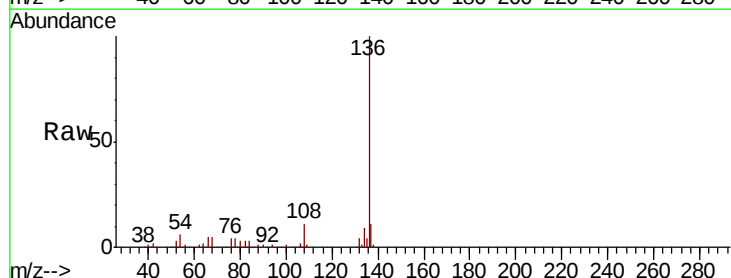
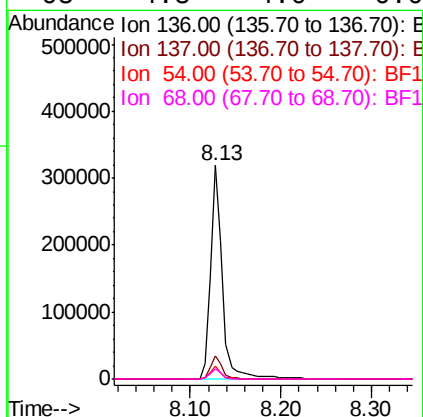
RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Tgt Ion:	136	Resp:	293144
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	5.9	4.8	7.2
68	4.8	4.0	6.0





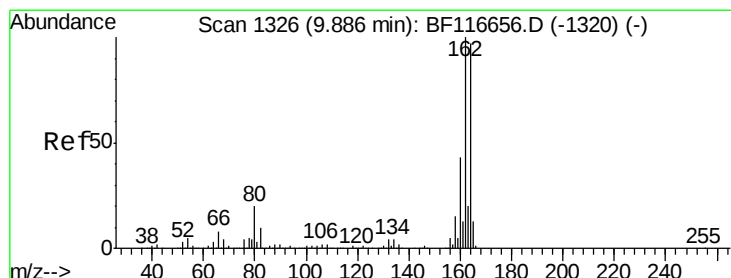
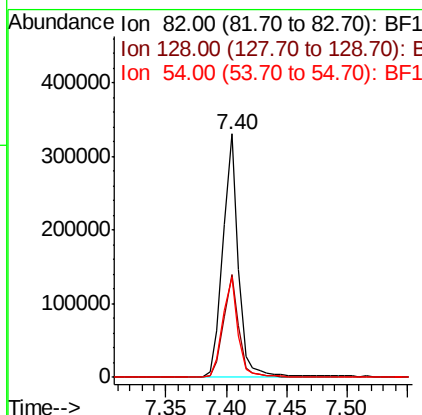
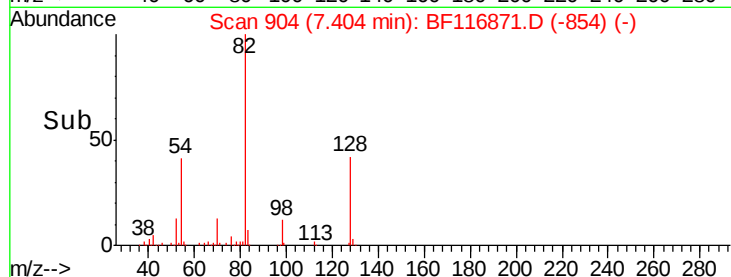
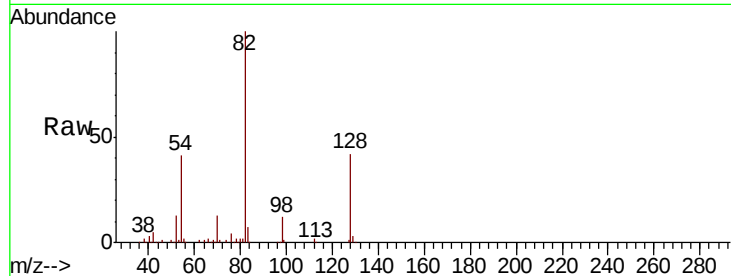
#23
 Nitrobenzene-d5
 Concen: 57.561 ng
 RT: 7.40 min Scan# 904
 Delta R.T. -0.01 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Instrument :
 BNA_F
 ClientSampleId :
 S700-A2-N-0.0-0.5-090519

Tot Ion	82	Resp	295578
Ion Ratio	Lower	Upper	
82	100		
128	42.0	32.8	49.2
54	41.1	36.9	55.3

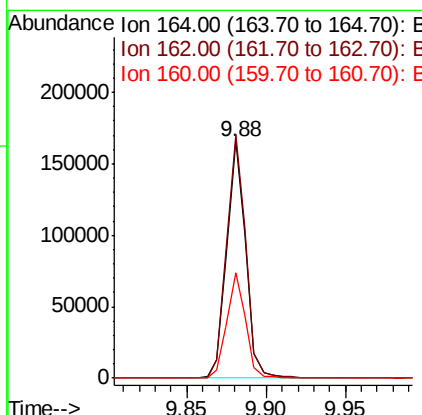
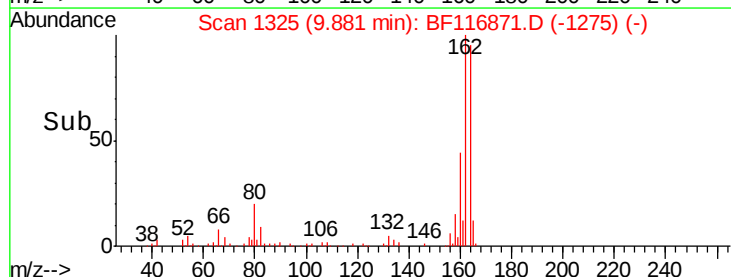
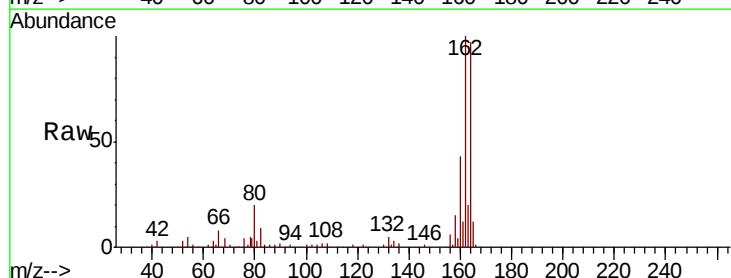
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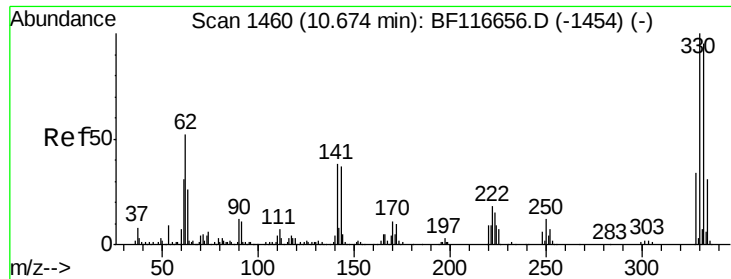
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Tgt Ion	164	Resp	136906
Ion Ratio	Lower	Upper	
164	100		
162	102.7	81.4	122.0
160	44.5	35.4	53.2





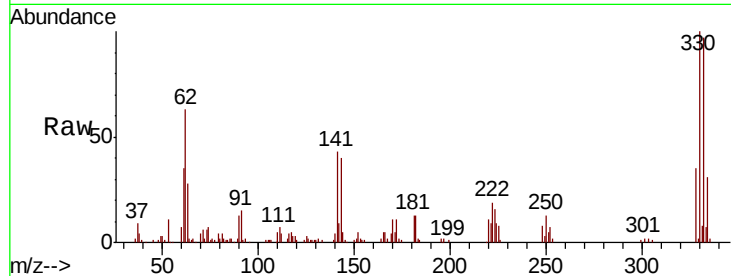
#42
 2,4,6-Tribromophenol
 Concen: 74.261 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Instrument :
 BNA_F
 ClientSampleId :
 S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.9	115.3
141	43.1	31.4	47.2

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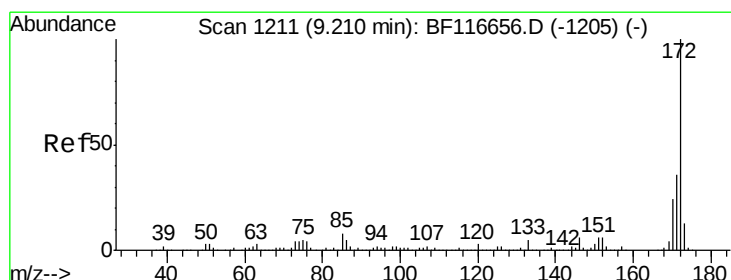
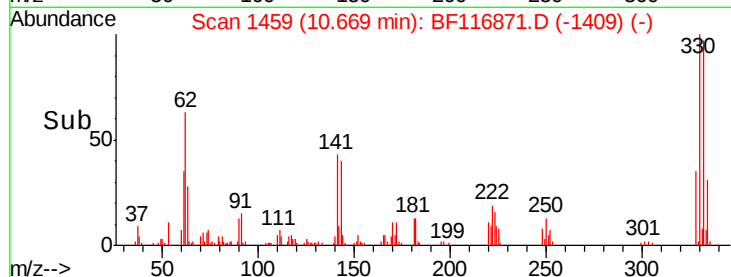
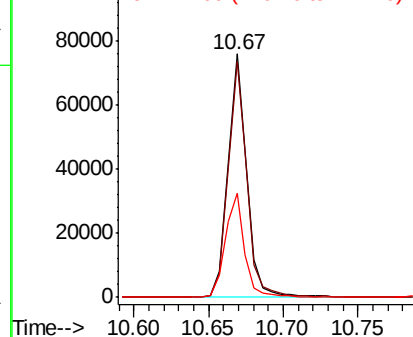


Abundance

Ion 329.80 (329.50 to 330.50): E

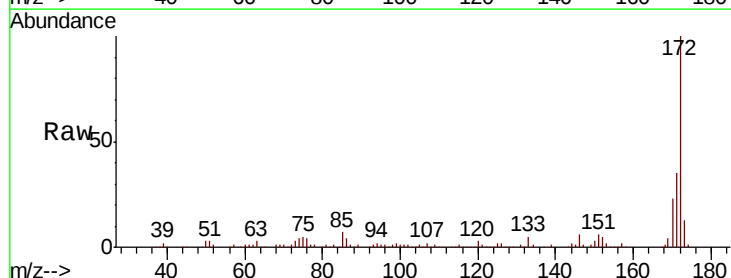
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 45.606 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.8	41.6
170	23.2	18.9	28.3

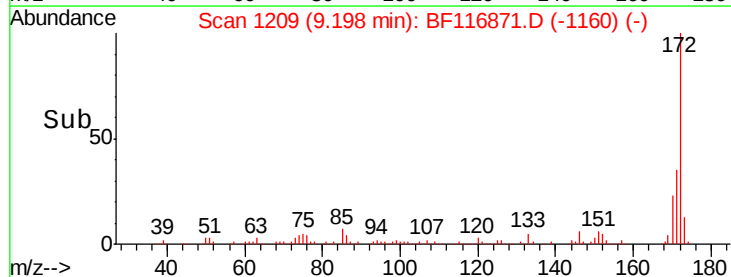
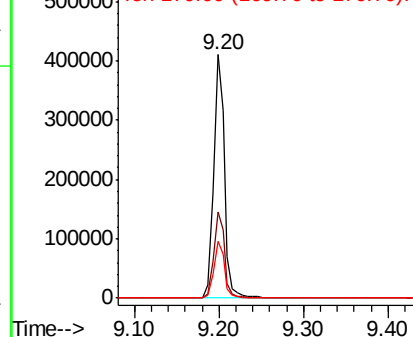


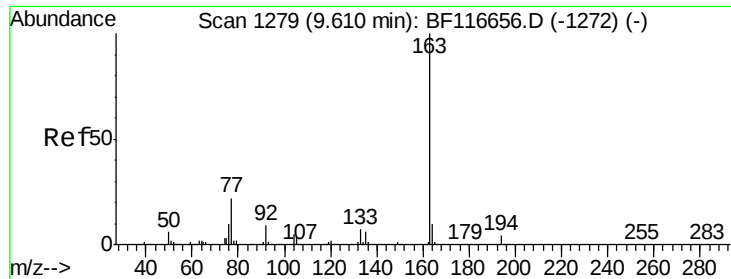
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





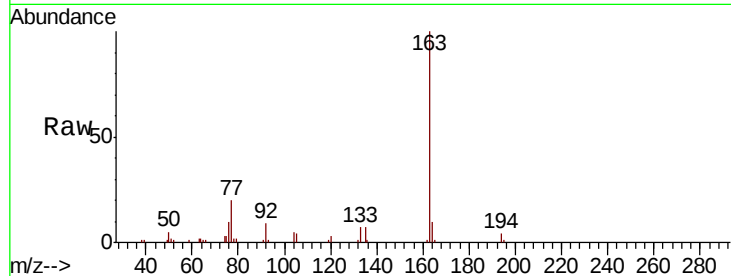
#50
Dimethylphthalate
Concen: 5.549 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Instrument :
BNA_F
ClientSampleId :
S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Resp	Lower	Upper
163	100	52446		
194	4.2		2.8	4.2
164	10.5		8.6	12.8

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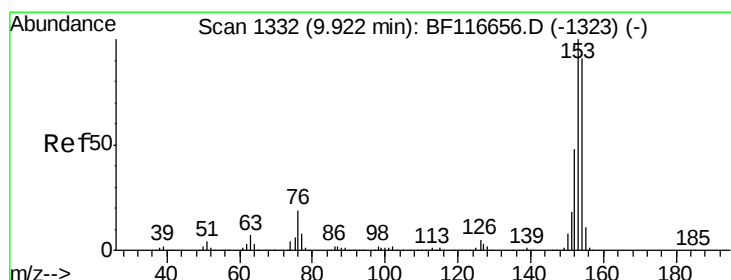
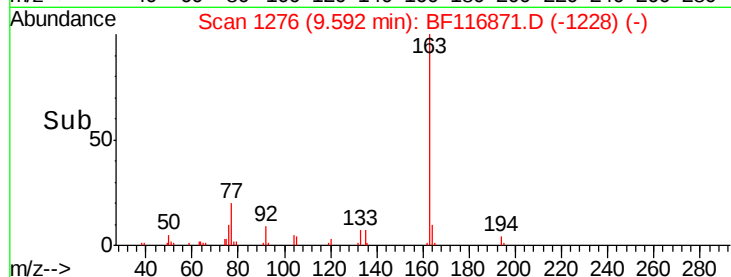
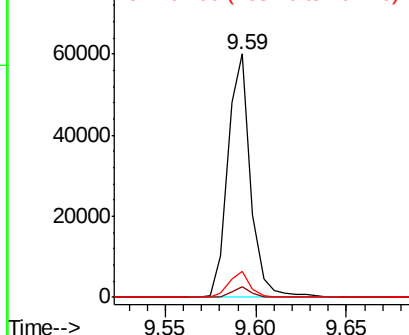


Abundance

Ion 163.00 (162.70 to 163.70): E

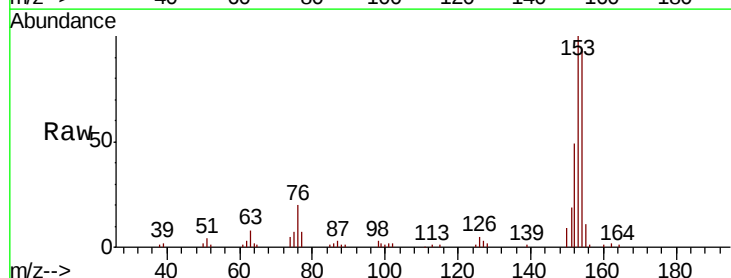
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 7.069 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	54025		
153	106.4		89.5	134.3
152	52.5		41.9	62.9

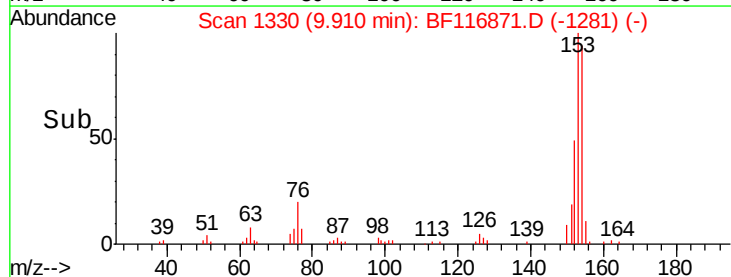
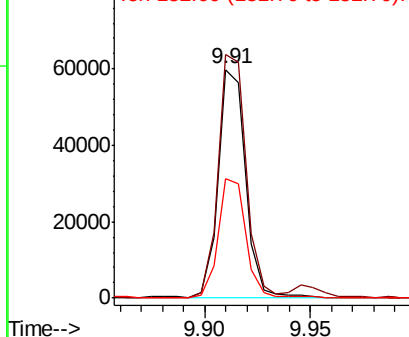


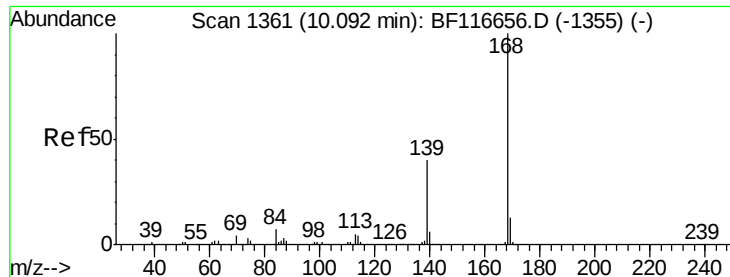
Abundance

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





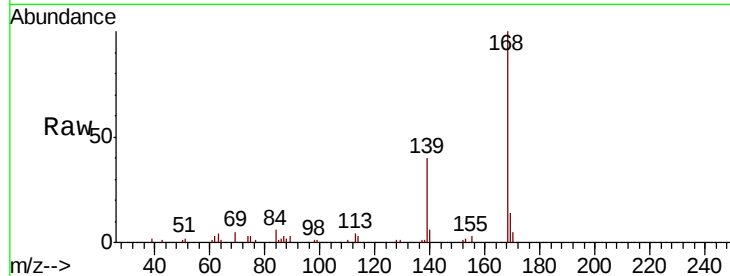
#55
Dibenzenofuran
Concen: 2.951 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Instrument :
BNA_F
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S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.2	31.5	47.3
169	13.9	10.3	15.5

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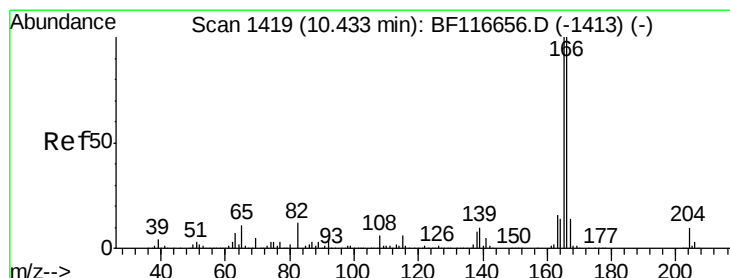
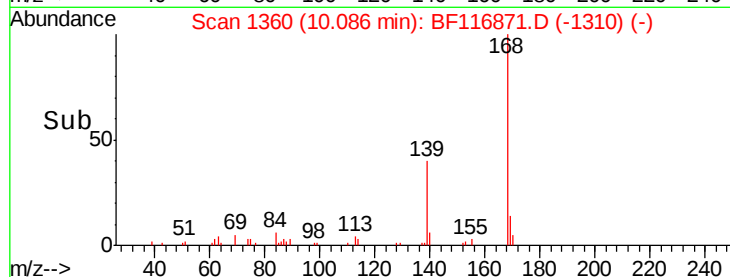
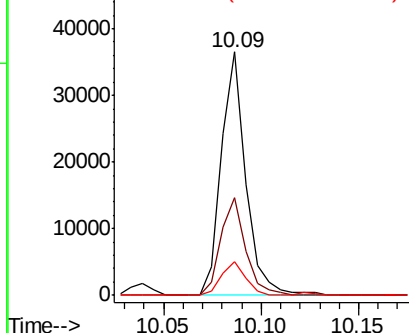


Abundance

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



#58
Fluorene
Concen: 6.854 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

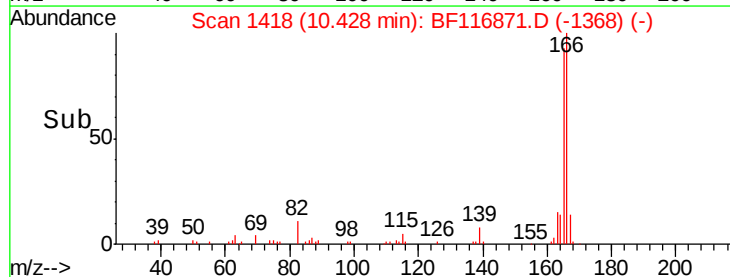
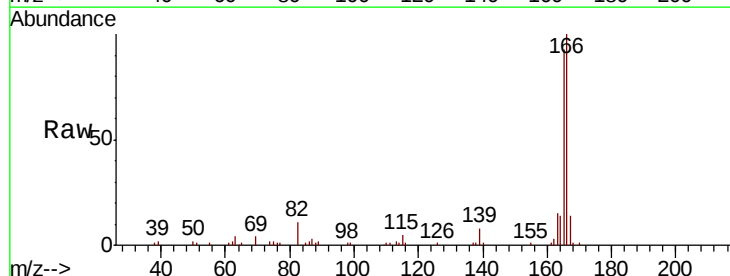
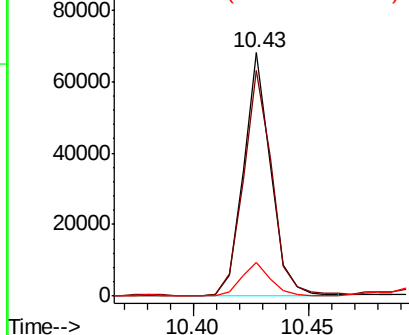
Tgt Ion	Ratio	Lower	Upper
166	100		
165	92.9	78.8	118.2
167	13.8	10.0	15.0

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





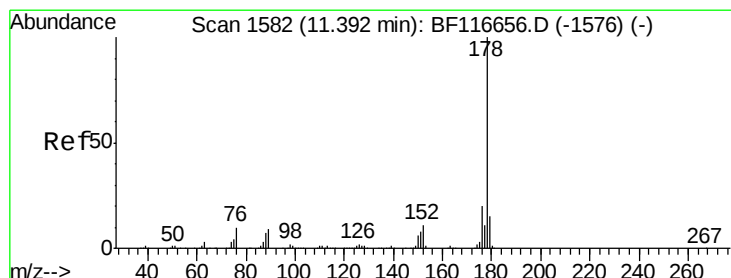
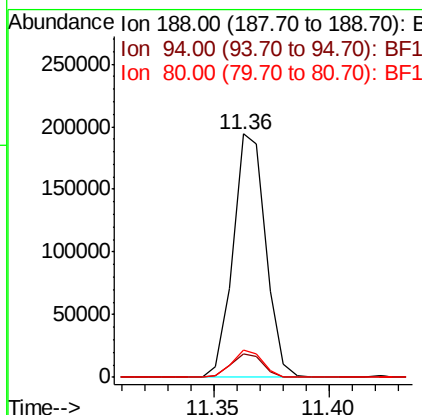
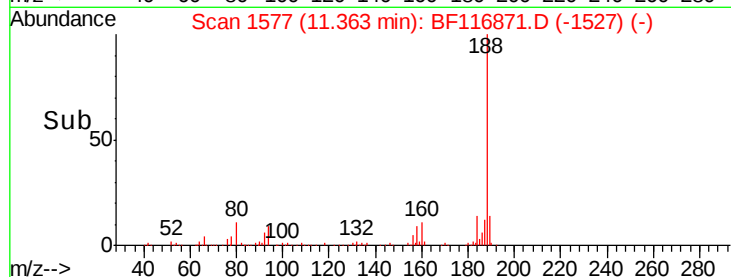
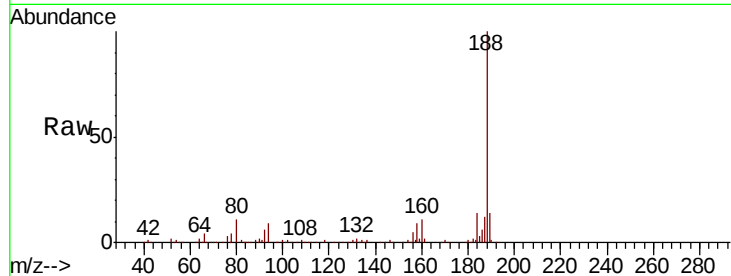
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Instrument :
BNA_F
ClientSampleId :
S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Resp	Lower	Upper
188	100	191215		
94	9.5	7.3	10.9	
80	11.3	8.4	12.6	

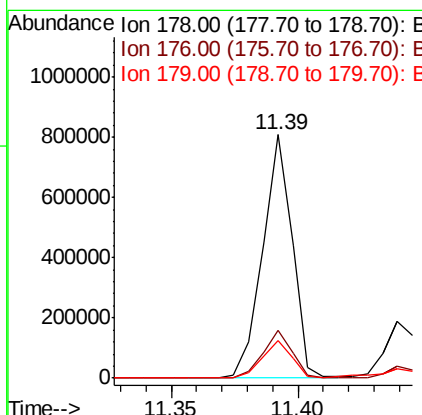
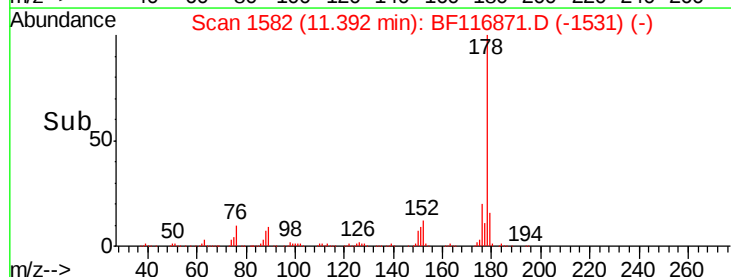
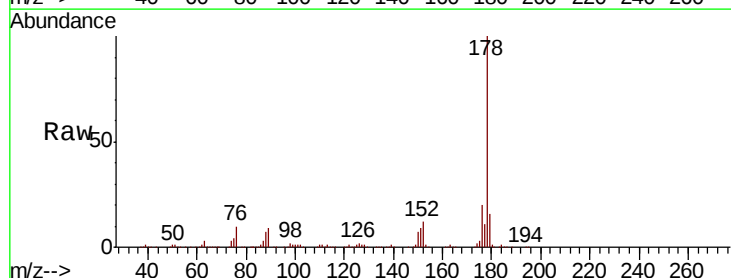
Manual Integrations
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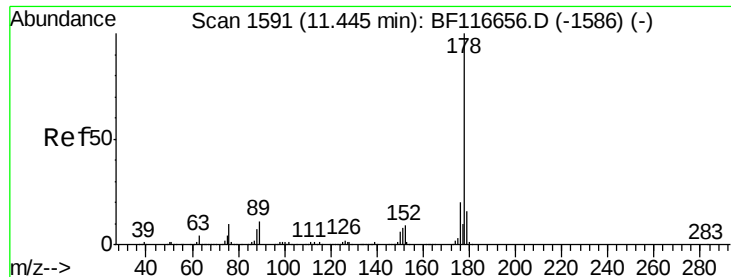
mohammad
9/12/2019 9:24:59 AM



#71
Phenanthrene
Concen: 62.322 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.00 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	663370		
176	19.7	15.4	23.0	
179	15.6	12.2	18.2	





#72

Anthracene

Concen: 15.076 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Instrument :

BNA_F

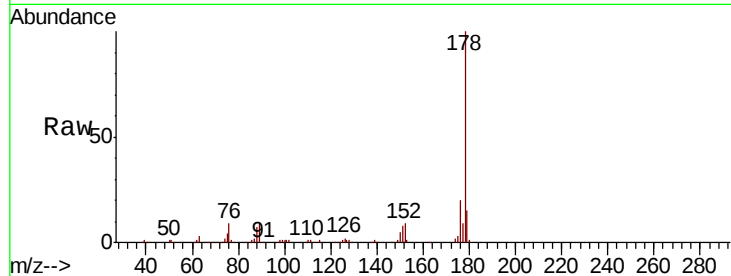
ClientSampleId :

S700-A2-N-0.0-0.5-090519

Tot Ion:	178	Resp:	161537
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.4	23.0
179	15.4	12.5	18.7

Manual Integrations
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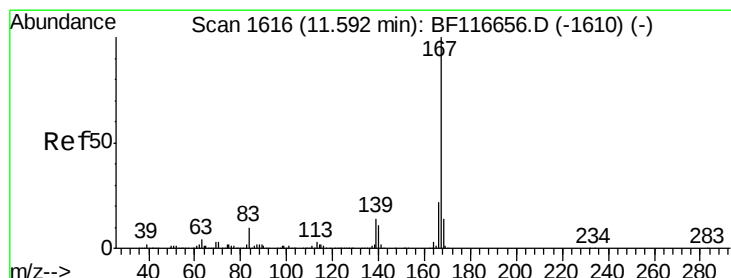
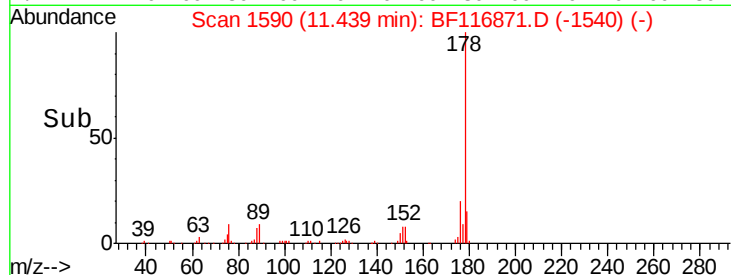
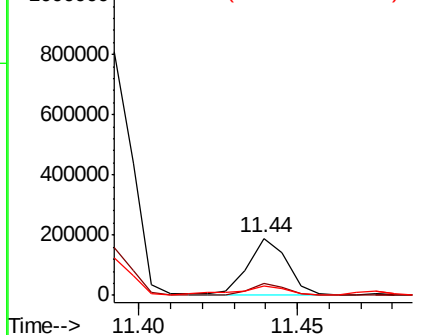


Abundance

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



#73

Carbazole

Concen: 7.947 ng

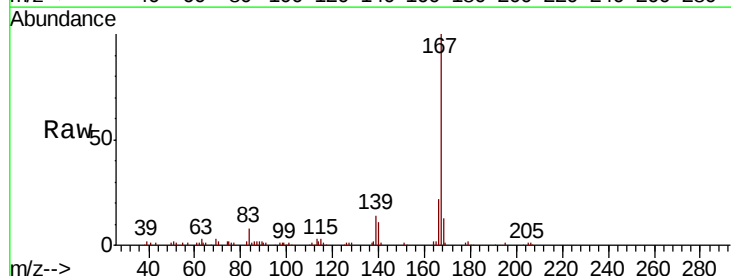
RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Tgt Ion:	167	Resp:	81109
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.8	26.6
139	13.8	11.1	16.7

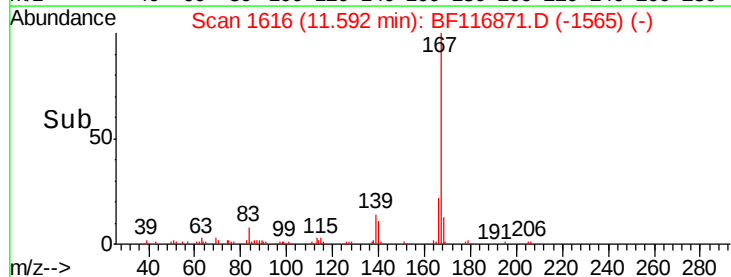
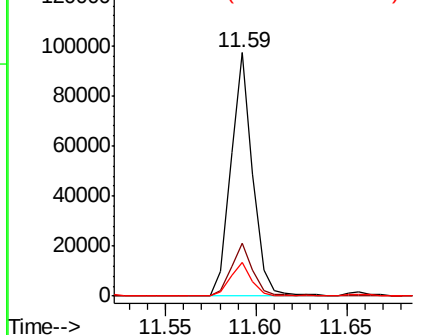


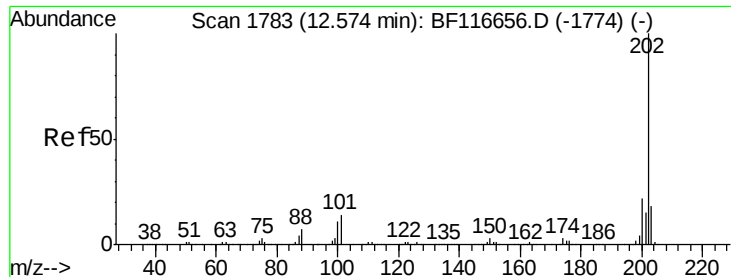
Abundance

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





#75

Fluoranthene

Concen: 90.681 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.01 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Instrument :

BNA_F

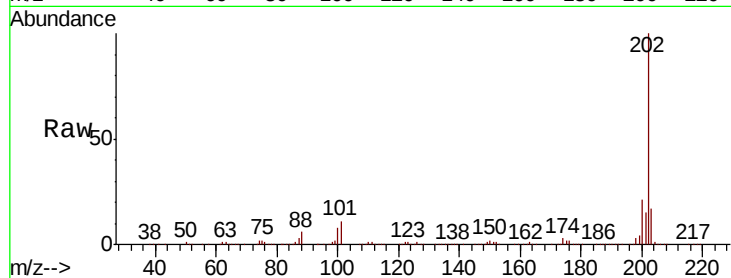
ClientSampleId :

S700-A2-N-0.0-0.5-090519

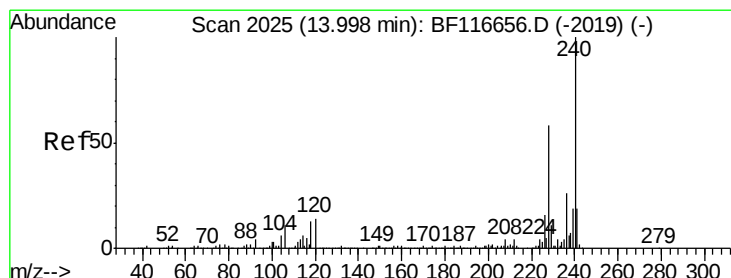
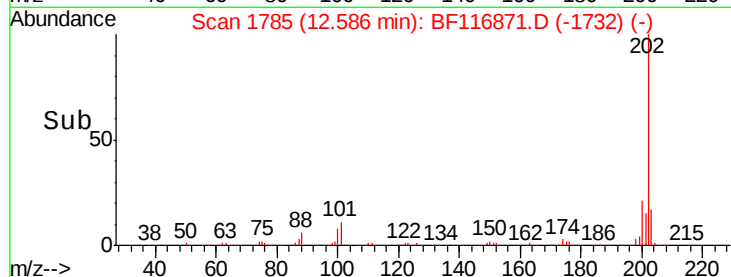
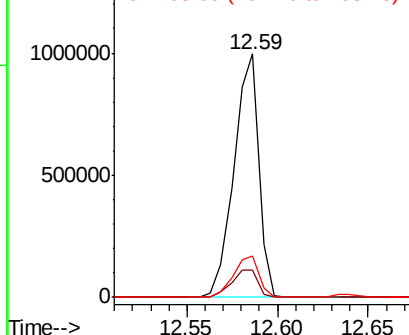
Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	11.0	0.0	31.3
203	17.2	0.0	37.6

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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



#76

Chrysene-d12

Concen: 20.000 ng

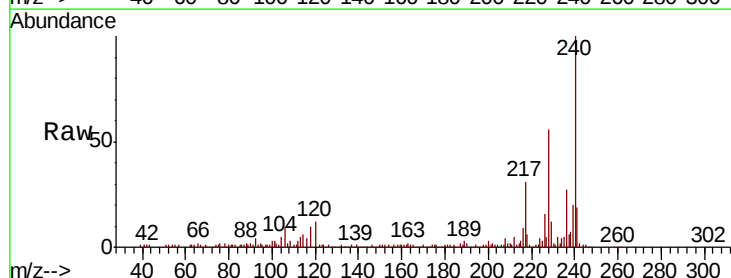
RT: 14.00 min Scan# 2026

Delta R.T. 0.01 min

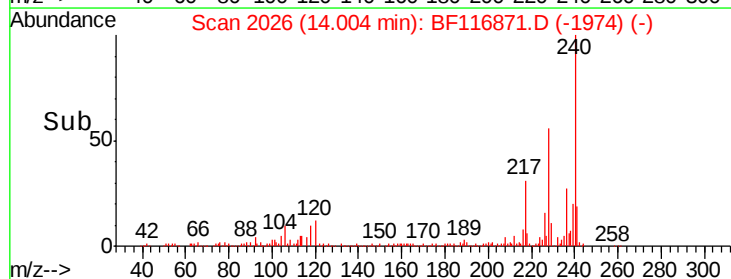
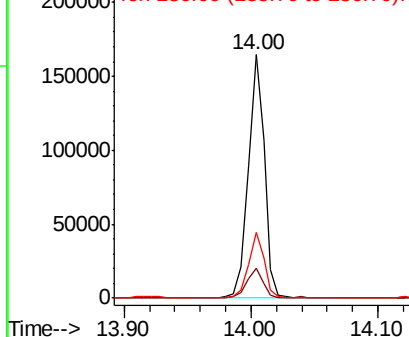
Lab File: BF116871.D

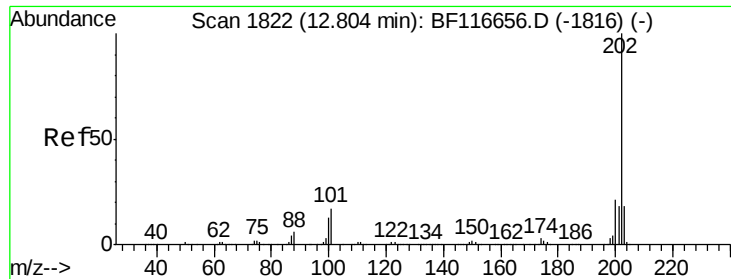
Acq: 6 Sep 2019 20:29

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.4	9.1	13.7
236	27.0	21.1	31.7



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





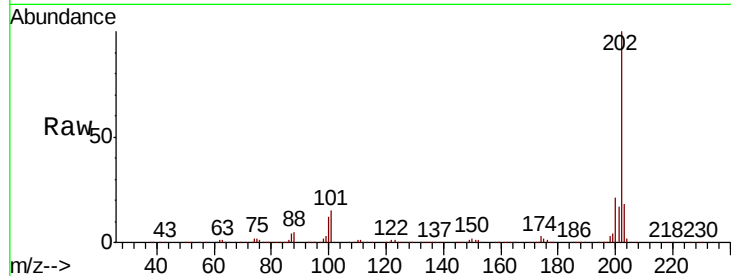
#78
Pvrene
Concen: 61.078 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Instrument :
BNA_F
ClientSampleId :
S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.5	24.7
203	17.8	13.7	20.5

Manual Integrations
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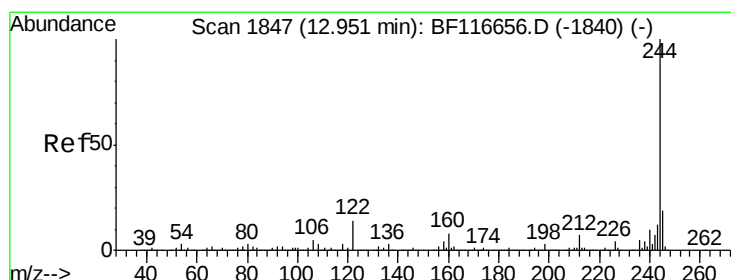
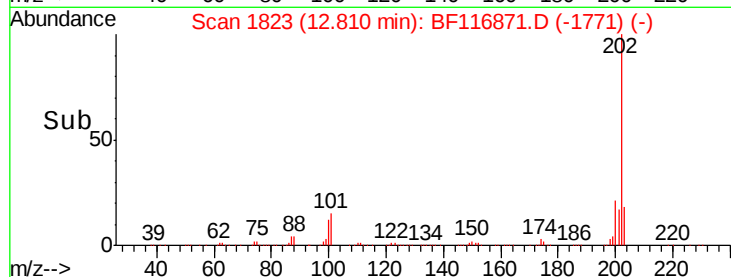
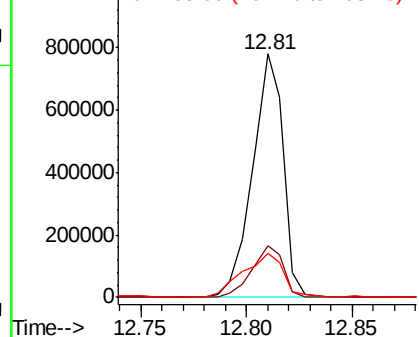


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 28.510 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

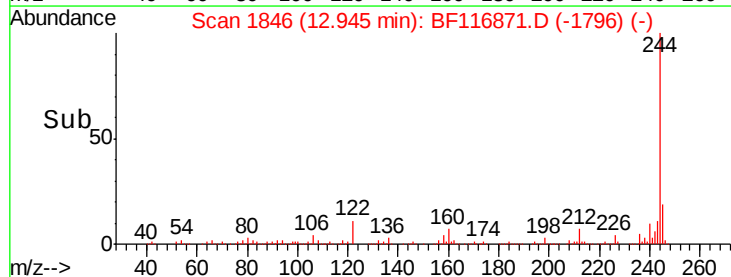
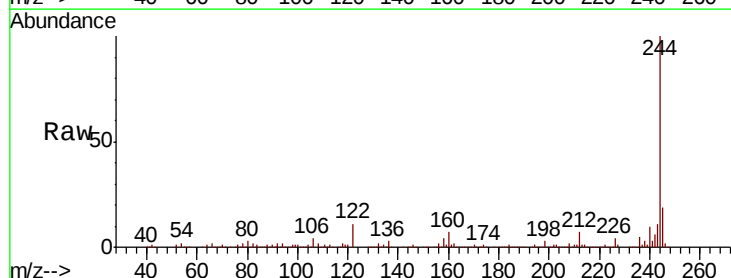
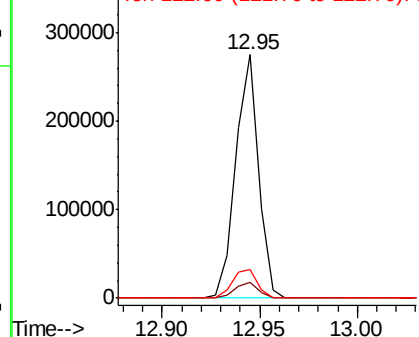
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.1	9.1
122	11.5	10.2	15.4

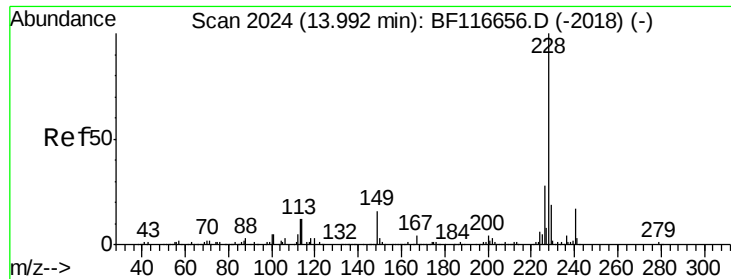
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





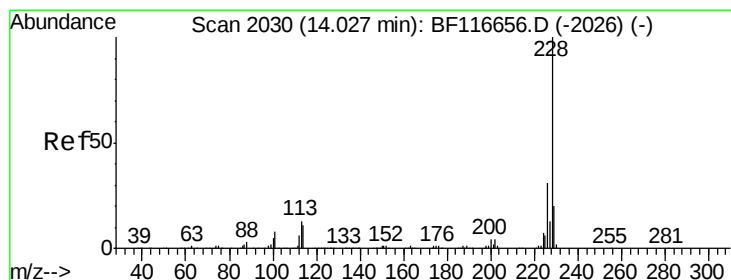
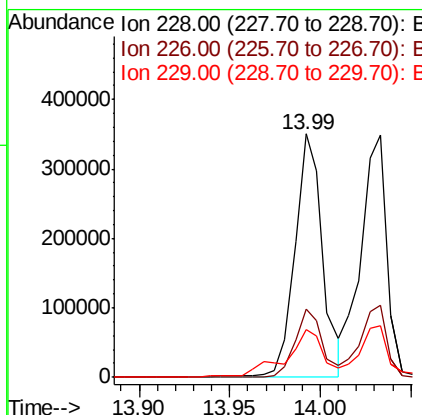
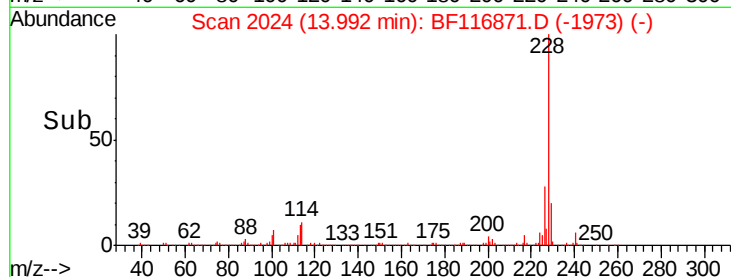
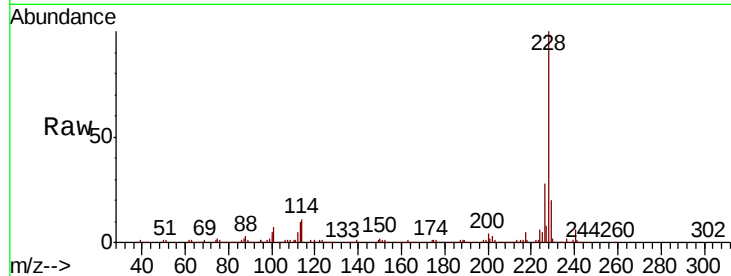
#81
Benzo(a)anthracene
Concen: 40.975 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.00 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Instrument :
BNA_F
ClientSampleId :
S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.0	33.0
229	19.9	16.4	24.6

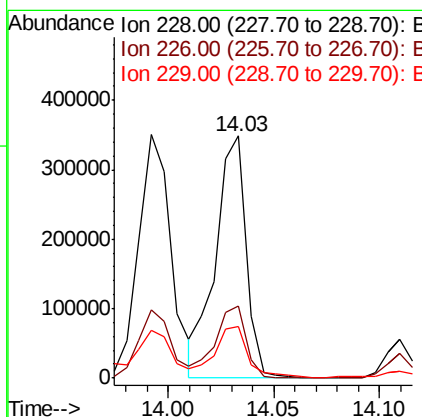
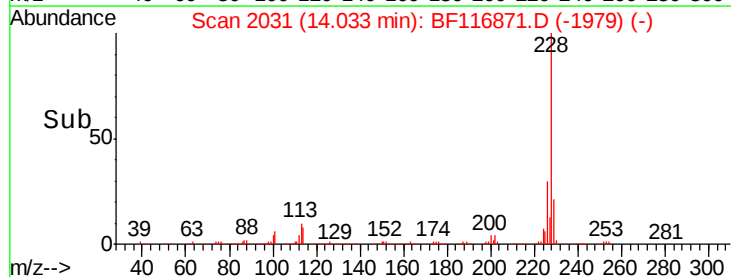
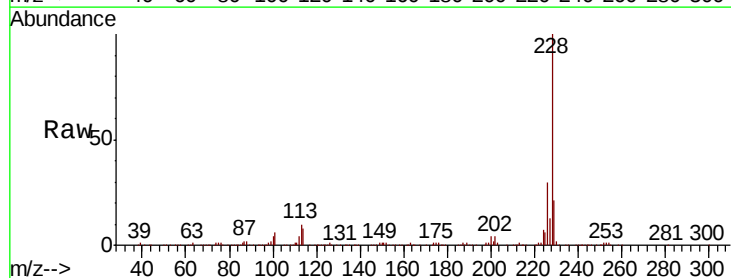
Manual Integrations
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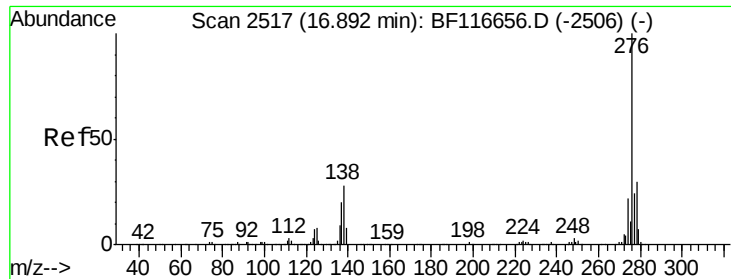
mohammad
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#83
Chrysene
Concen: 37.010 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.01 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	21.3	15.4	23.0





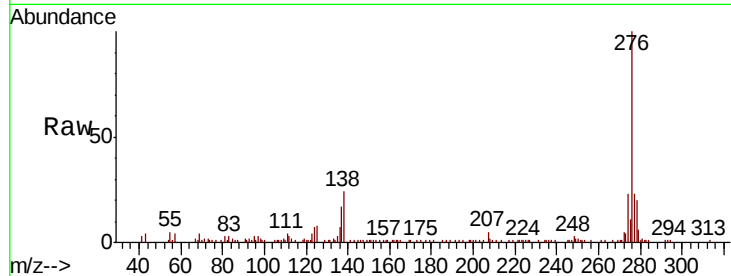
#86
Indeno(1,2,3-cd)pyrene
Concen: 14.363 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.02 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

Instrument :
BNA_F
ClientSampleId :
S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	19.4	29.2
277	23.2	20.5	30.7

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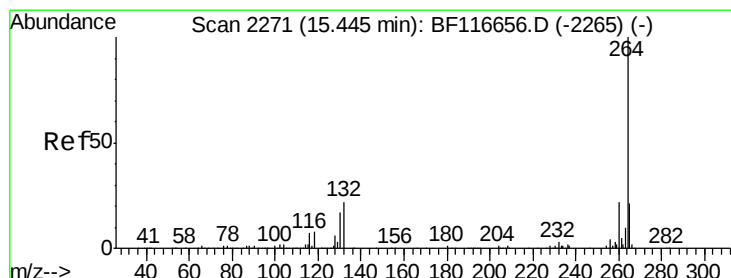
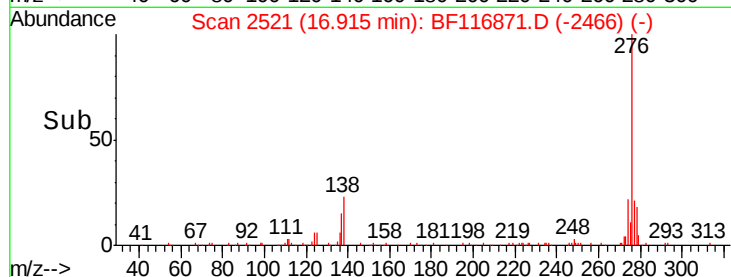
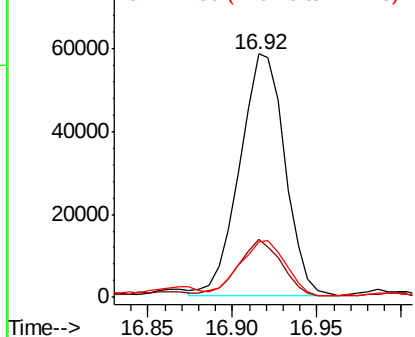


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.02 min
Lab File: BF116871.D
Acq: 6 Sep 2019 20:29

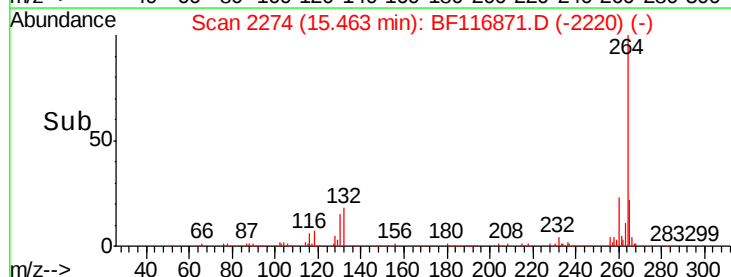
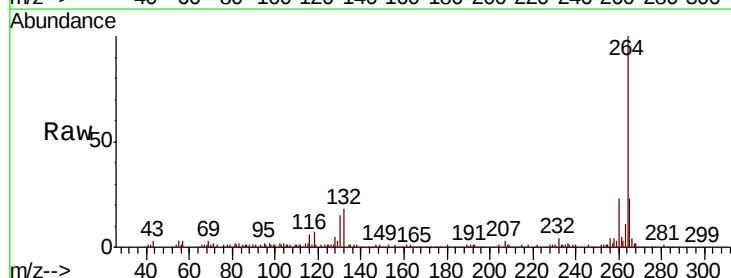
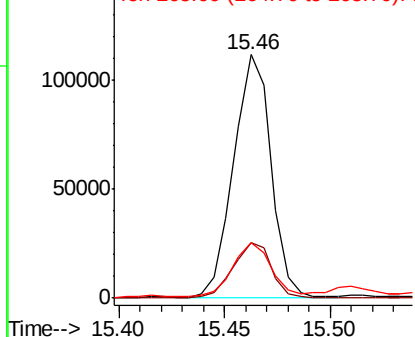
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.3	27.5
265	22.7	16.5	24.7

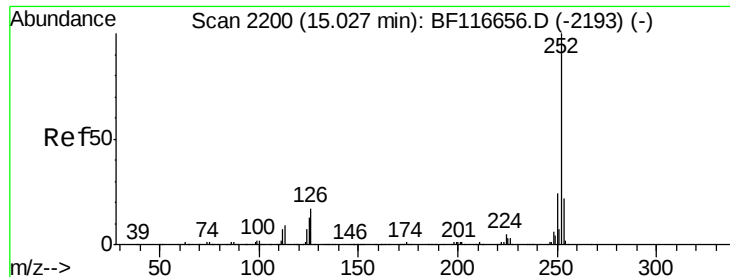
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 45.462 ng m

RT: 15.04 min Scan# 2203

Delta R.T. 0.02 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Instrument :

BNA_F

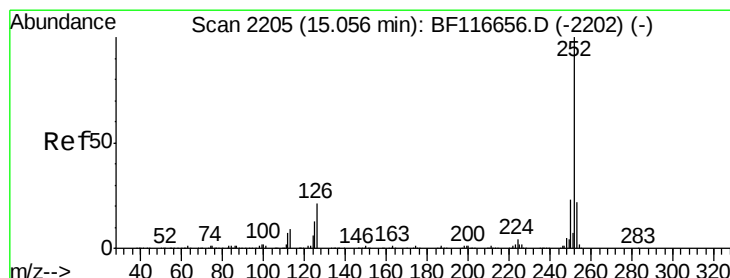
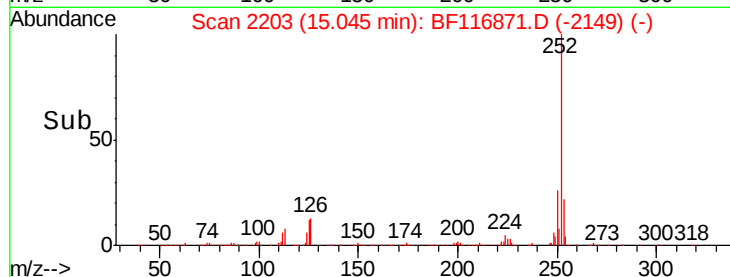
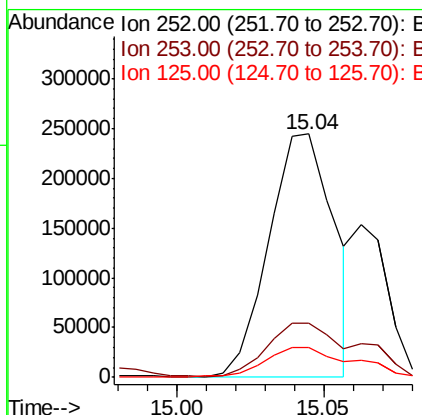
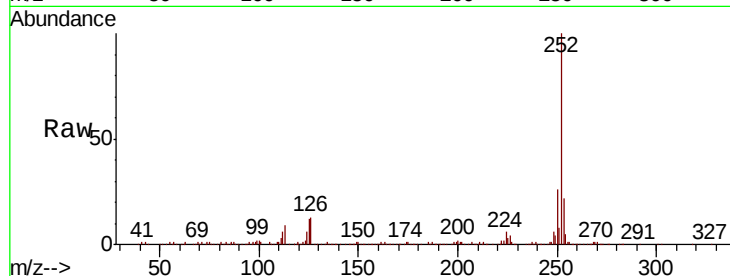
ClientSampleId :

S700-A2-N-0.0-0.5-090519

Tot Ion:	252	Resp:	379289
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.7	26.5
125	12.4	8.2	12.2#

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#89

Benzo(k)fluoranthene

Concen: 16.382 ng m

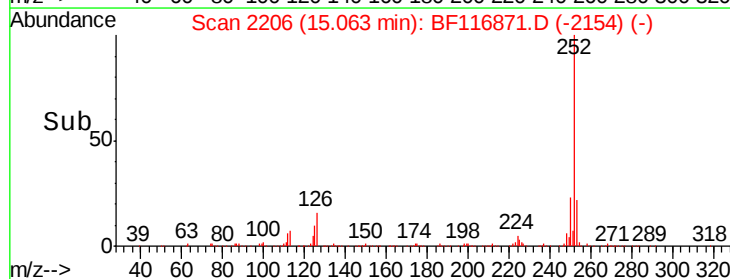
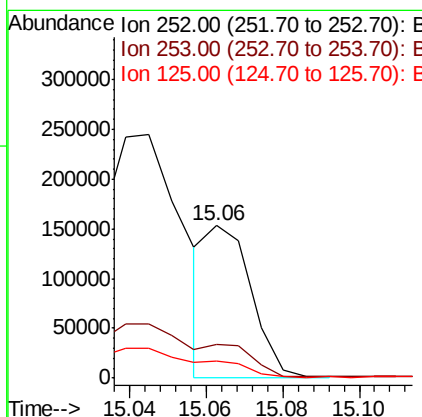
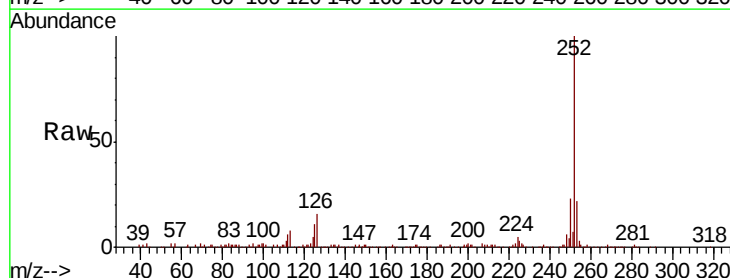
RT: 15.06 min Scan# 2206

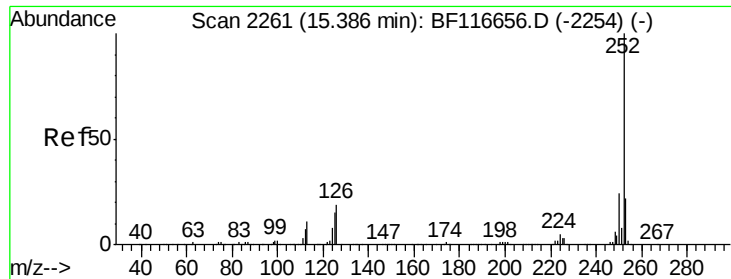
Delta R.T. 0.01 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Tgt Ion:	252	Resp:	124614
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.7	26.5
125	10.9	8.6	13.0





#90

Benzo(a)pyrene

Concen: 31.766 ng

RT: 15.40 min Scan# 2264

Delta R.T. 0.02 min

Lab File: BF116871.D

Acq: 6 Sep 2019 20:29

Instrument :

BNA_F

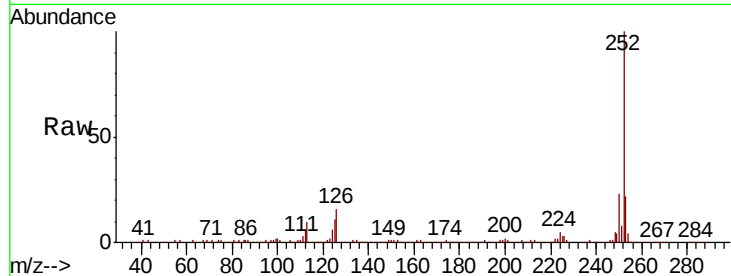
ClientSampleId :

S700-A2-N-0.0-0.5-090519

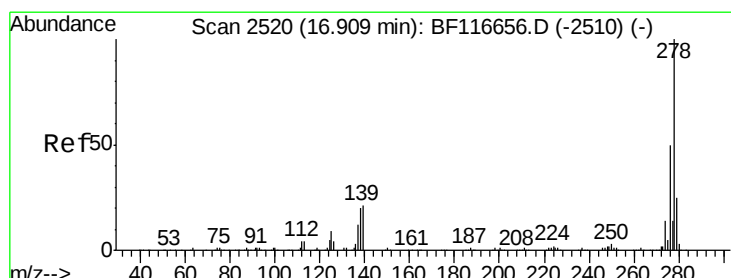
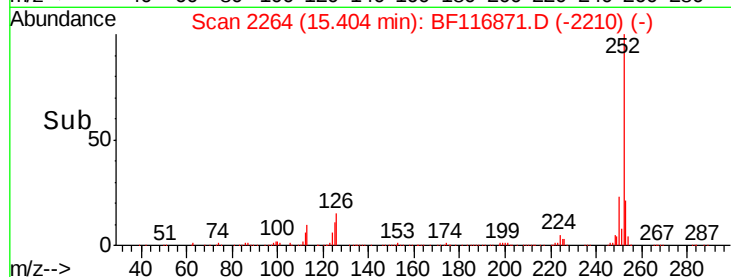
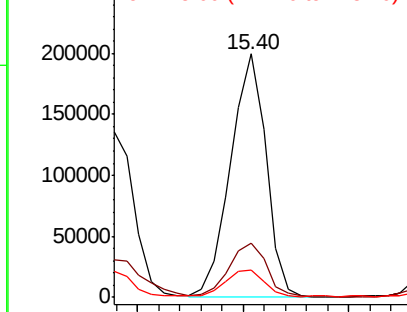
Tot Ion:	252	Resp:	230568
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.1	27.1
125	11.4	9.8	14.8

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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



#91

Dibenzo(a,h)anthracene

Concen: 4.328 ng m

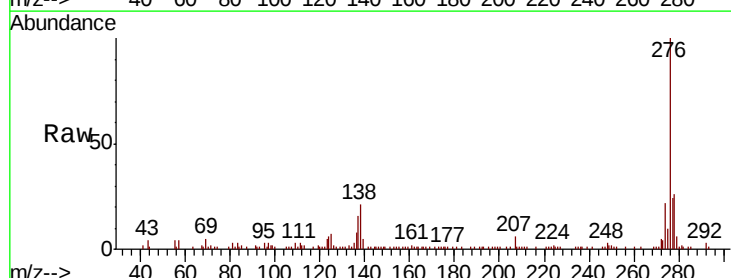
RT: 16.92 min Scan# 2522

Delta R.T. 0.01 min

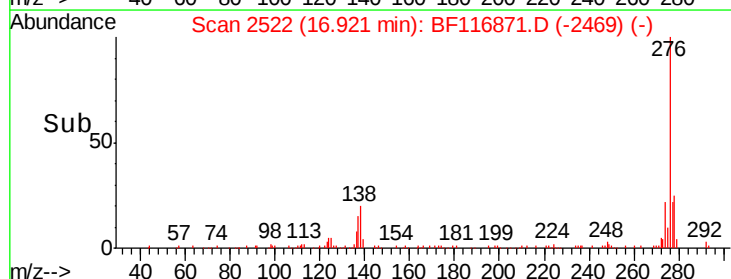
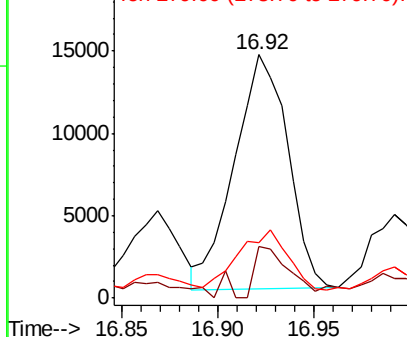
Lab File: BF116871.D

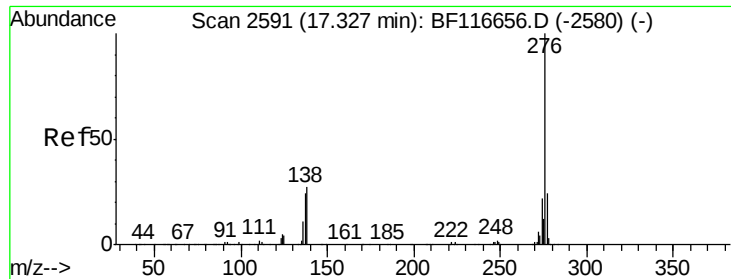
Acq: 6 Sep 2019 20:29

Tgt Ion:	278	Resp:	27498
Ion Ratio	Lower	Upper	
278	100		
139	21.0	12.4	18.6#
279	22.7	18.2	27.4



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





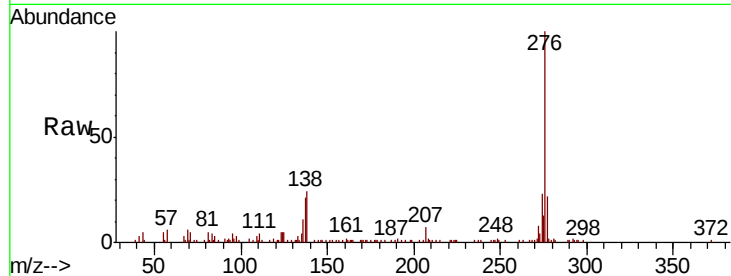
#92
 Benzo(a,h,i)perylene
 Concen: 15.001 ng
 RT: 17.36 min Scan# 2596
 Delta R.T. 0.03 min
 Lab File: BF116871.D
 Acq: 6 Sep 2019 20:29

Instrument :
 BNA_F
 ClientSampleId :
 S700-A2-N-0.0-0.5-090519

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.6	18.5	27.7
138	23.9	16.2	24.2

Manual Integrations
 APPROVED

mohammad
 9/12/2019 9:24:59 AM



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

