

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
 Data File : BN007993.D
 Acq On : 03 Oct 2019 22:47
 Operator : JU
 Sample : K5077-16
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B266-092519

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:27:28 AM

Quant Time: Oct 04 08:44:32 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 03 18:39:49 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	4999	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	20671	0.40	ng	-0.01
13) Acenaphthene-d10	14.30	164	13413	0.40	ng	-0.02
19) Phenanthrene-d10	17.05	188	28531	0.40	ng	-0.02
27) Chrysene-d12	21.25	240	32419	0.40	ng	-0.02
34) Perylene-d12	23.46	264	36521	0.40	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.30	112	5394	0.31	ng	-0.02
5) Phenol-d6	6.86	99	7927	0.37	ng	0.00
8) Nitrobenzene-d5	8.82	82	5914	0.33	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	12084	0.35	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	2650	0.36	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	16535	0.30	ng	-0.01
25) Fluoranthene-d10	19.09	212	33473	0.35	ng	-0.02
29) Terphenyl-d14	19.69	244	27963	0.35	ng	-0.02
Target Compounds						Qvalue
9) Naphthalene	10.49	128	16782	0.289	ng	97
12) 2-Methylnaphthalene	12.12	142	19861	0.507	ng	99
16) Acenaphthylene	14.02	152	263623	3.706	ng	99
17) Acenaphthene	14.37	154	10523	0.229	ng	92
18) Fluorene	15.36	166	50195	0.854	ng	# 12
22) Pentachlorophenol	16.71	266	235	0.034	ng	86
23) Phenanthrene	17.09	178	640452	7.206	ng	100
24) Anthracene	17.19	178	165886	2.067	ng	100
26) Fluoranthene	19.12	202	753632	6.819	ng	98
28) Pvrene	19.49	202	1104853	9.993	ng	97
30) Benzo(a)anthracene	21.24	228	456271m	3.822	ng	
31) Chrysene	21.29	228	571748	4.914	ng	96
32) Bis(2-ethylhexyl)phthalate	21.17	149	48682	0.793	ng	99
33) Indeno(1,2,3-cd)pyrene	25.67	276	275936	1.894	ng	# 96
35) Benzo(b)fluoranthene	22.81	252	533713	4.209	ng	99
36) Benzo(k)fluoranthene	22.84	252	148570m	1.185	ng	
37) Benzo(a)pvrene	23.37	252	406441	3.411	ng	99
38) Dibenzo(a,h)anthracene	25.68	278	77511	0.636	ng	# 86
39) Benzo(g,h,i)perylene	26.35	276	313802	2.601	ng	99

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

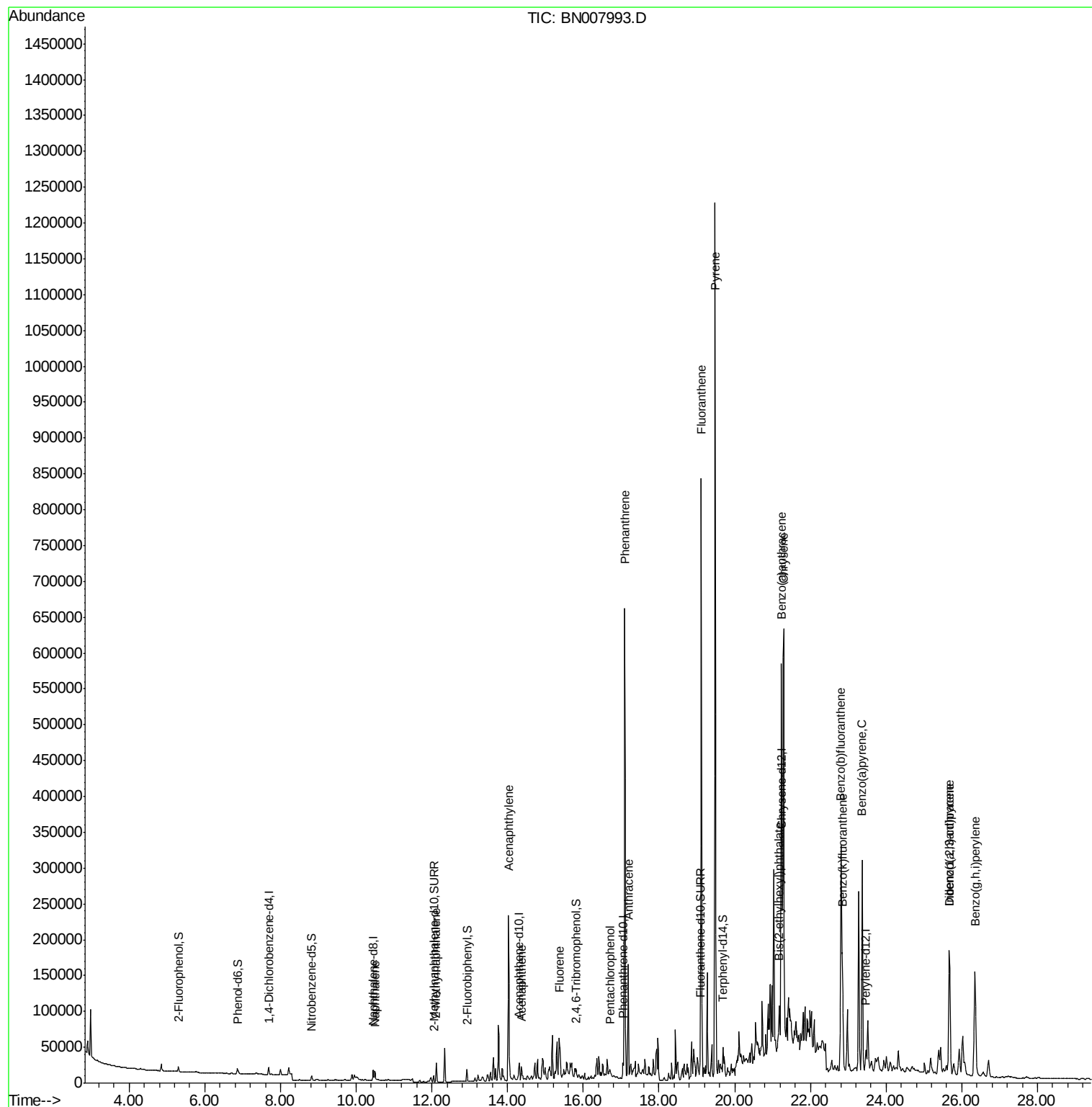
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
Data File : BN007993.D
Acq On : 03 Oct 2019 22:47
Operator : JU
Sample : K5077-16
Misc :
ALS Vial : 10 Sample Multiplier: 1

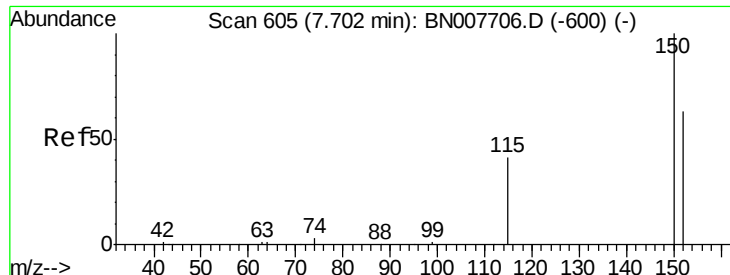
Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

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10/7/2019 8:27:28 AM

Quant Time: Oct 04 08:44:32 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 03 18:39:49 2019
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#1

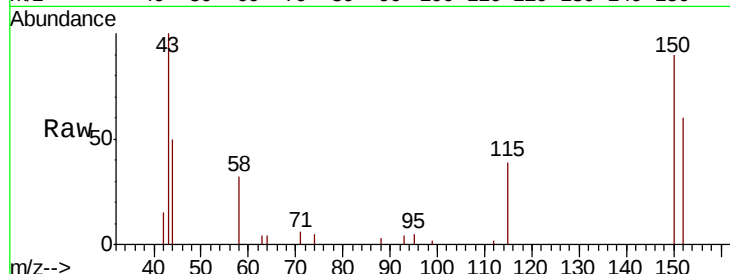
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.2	125.6	188.4
115	64.3	53.3	79.9

Manual Integrations
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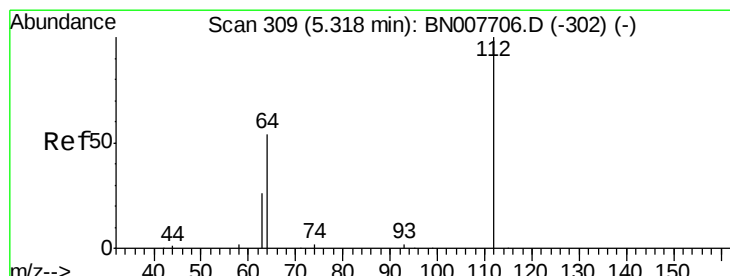
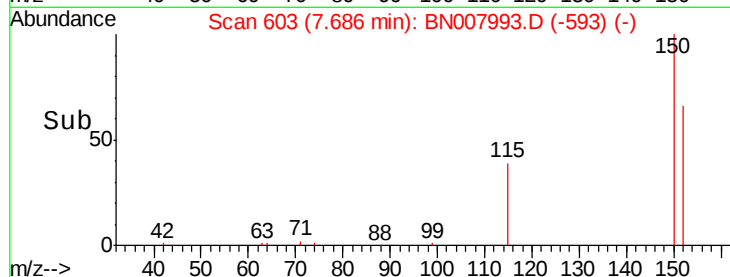
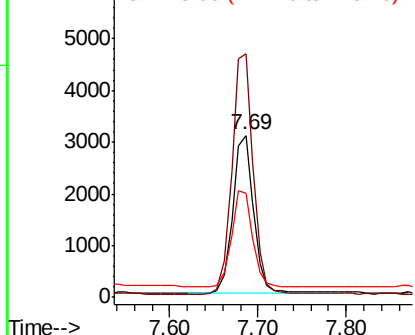


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

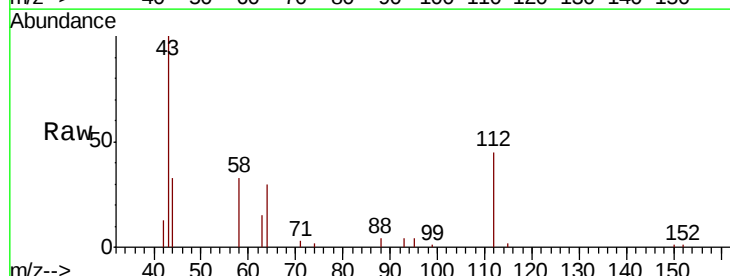
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.314 ng
RT: 5.30 min Scan# 307
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.2	46.6	70.0
63	28.1	23.1	34.7

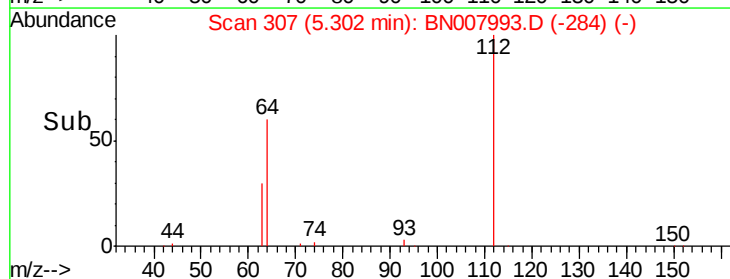
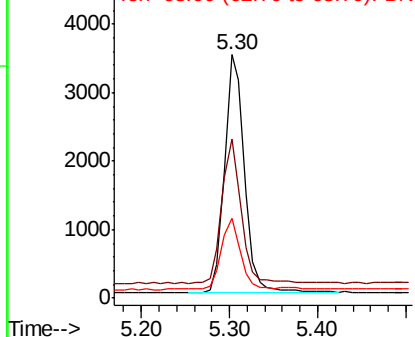


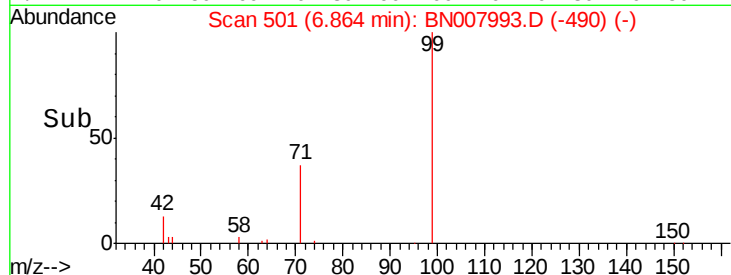
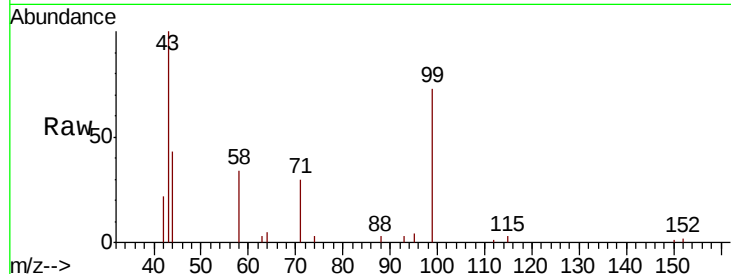
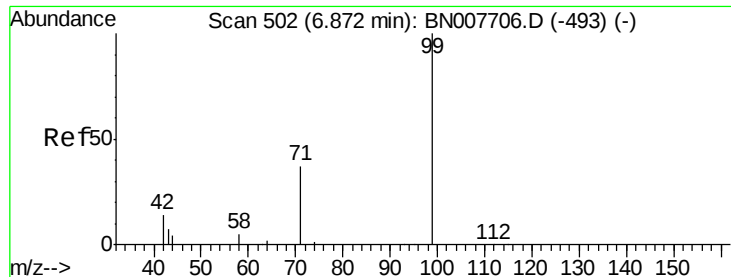
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





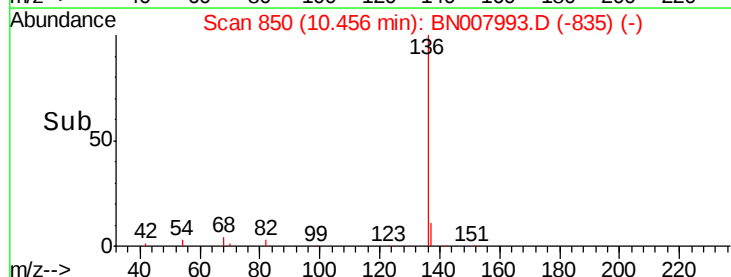
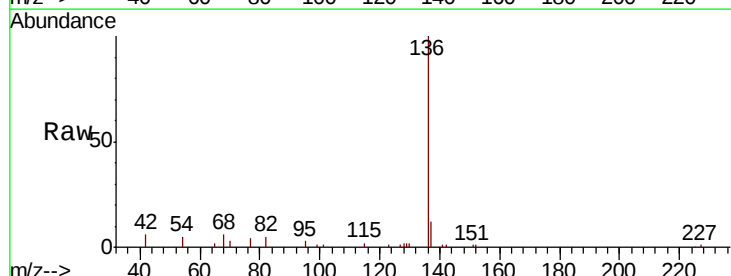
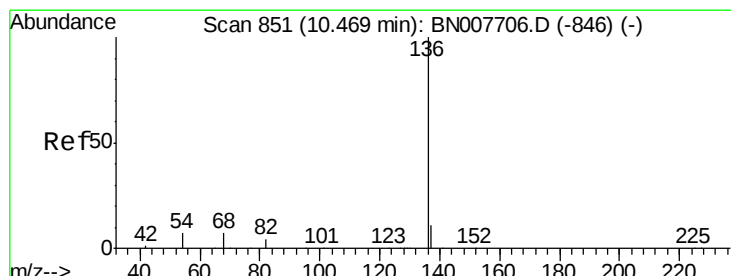
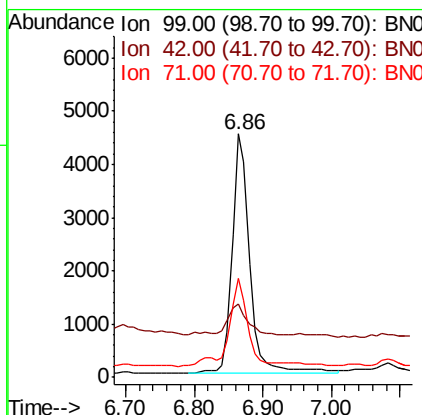
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.86 min Scan# 501
Delta R.T. -0.01 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tot Ion	Ratio	Lower	Upper
99	100		
42	14.1	12.8	19.2
71	43.3	27.6	41.4#

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

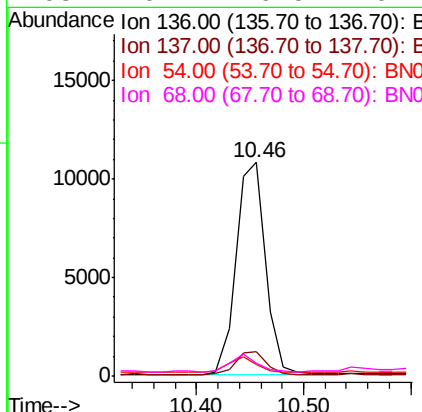
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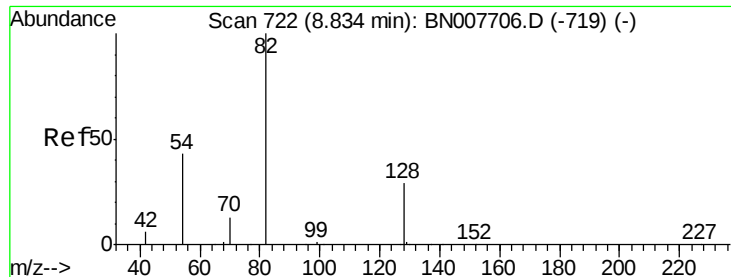
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.46 min Scan# 850
Delta R.T. -0.01 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.2	13.8
54	5.2	5.8	8.8#
68	6.2	6.5	9.7#





#8

Nitrobenzene-d5

Concen: 0.327 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Instrument :

BNA_N

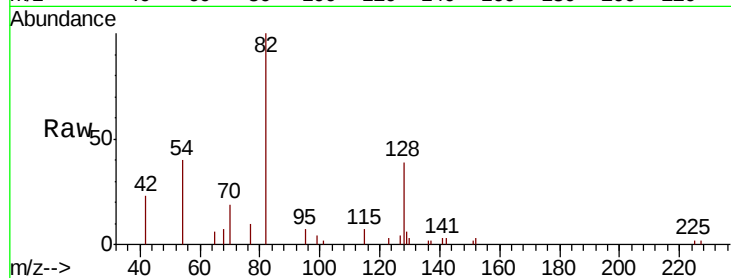
ClientSampleId :

PST-024-B266-092519

Tot Ion:	82	Resp:	5914
Ion	Ratio	Lower	Upper
82	100		
128	39.2	24.5	36.7#
54	39.8	35.2	52.8

Manual Integrations
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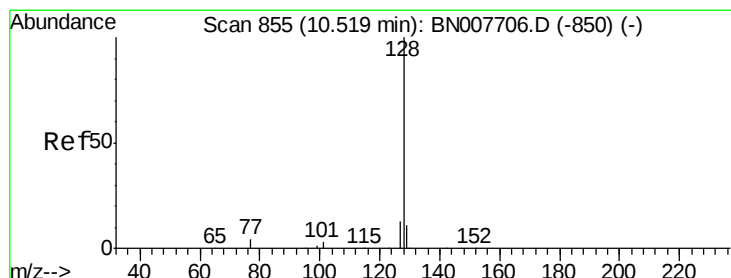
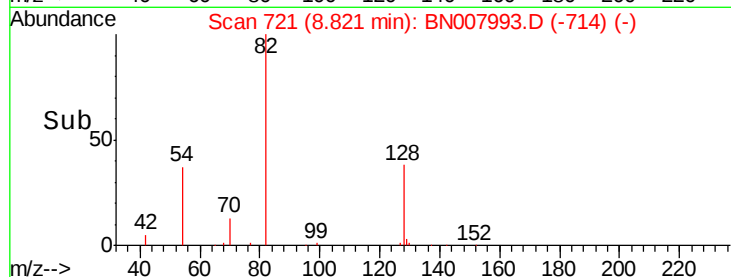
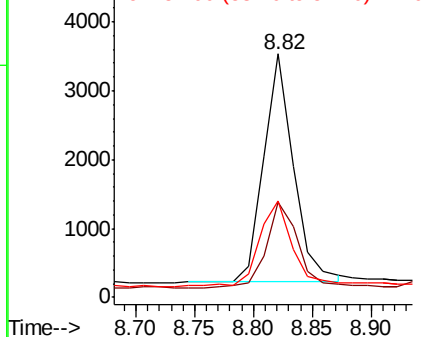
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Abundance Ion 82.00 (81.70 to 82.70): BN007706.D (-719) (-)

Ion 128.00 (127.70 to 128.70): BN007706.D (-719) (-)

Ion 54.00 (53.70 to 54.70): BN007706.D (-719) (-)



#9

Naphthalene

Concen: 0.289 ng

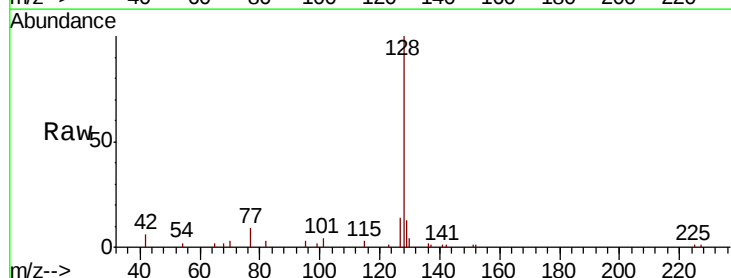
RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

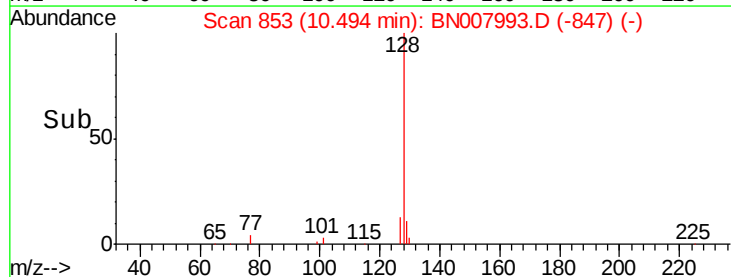
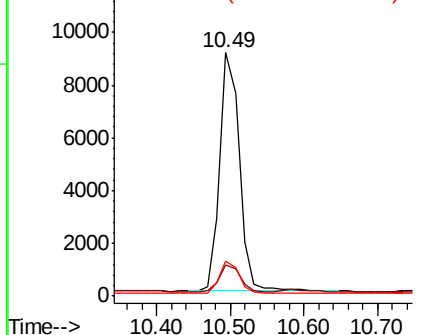
Tgt Ion:	128	Resp:	16782
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.1	13.7
127	14.2	10.6	15.8



Abundance Ion 128.00 (127.70 to 128.70): BN007706.D (-850) (-)

Ion 129.00 (128.70 to 129.70): BN007706.D (-850) (-)

Ion 127.00 (126.70 to 127.70): BN007706.D (-850) (-)





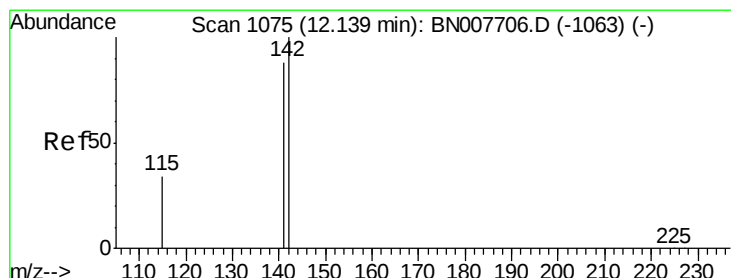
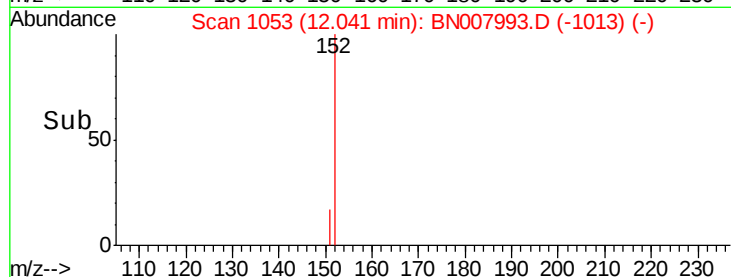
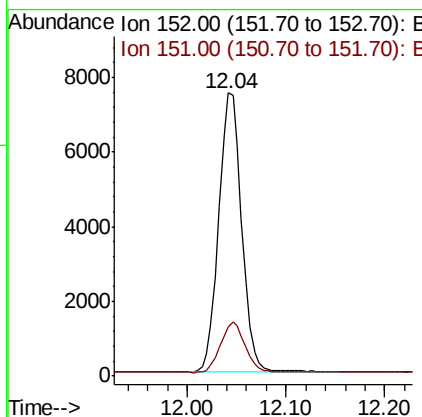
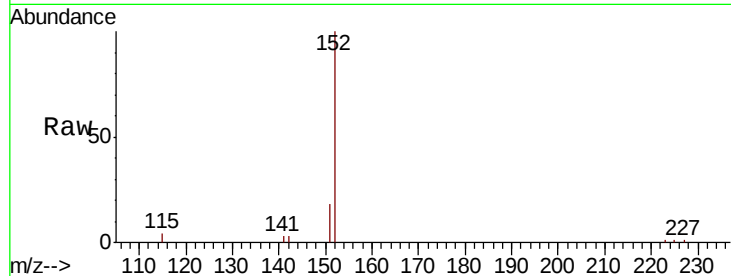
#11
 2-Methylnaphthalene-d10
 Concen: 0.347 ng
 RT: 12.04 min Scan# 1053
 Delta R.T. -0.02 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.4	23.2

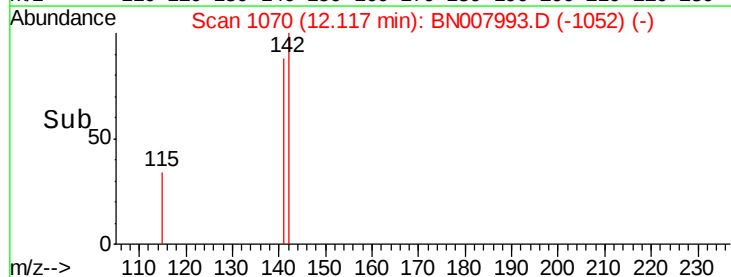
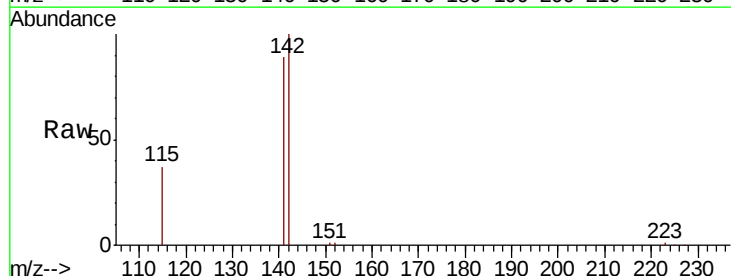
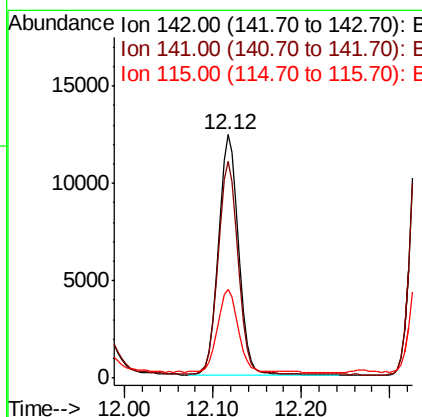
Manual Integrations
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#12
 2-Methylnaphthalene
 Concen: 0.507 ng
 RT: 12.12 min Scan# 1070
 Delta R.T. -0.02 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.6	106.0
115	36.6	28.3	42.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.30 min Scan# 1319

Delta R.T. -0.02 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Instrument :

BNA_N

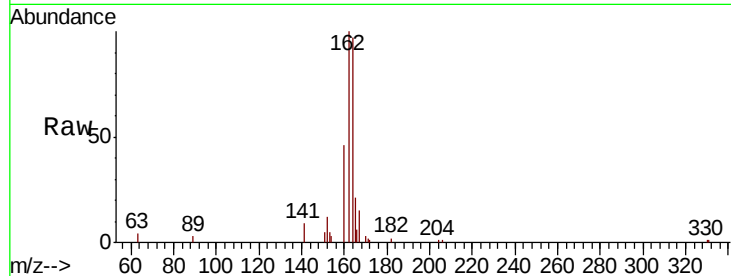
ClientSampleId :

PST-024-B266-092519

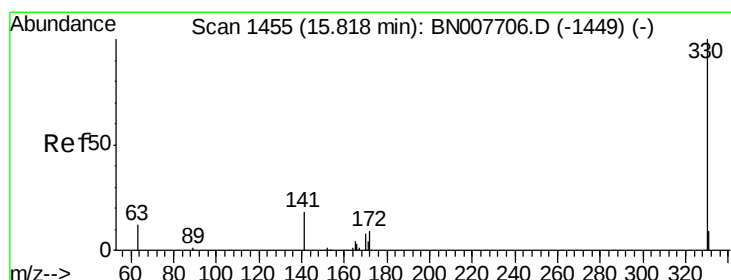
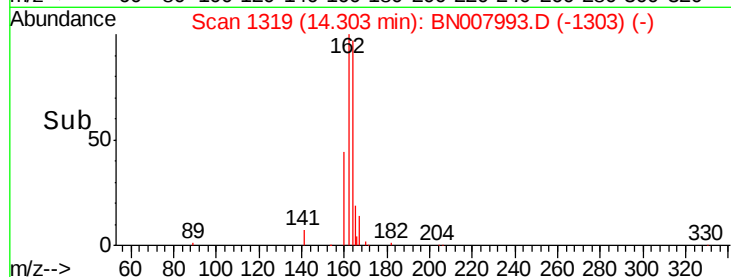
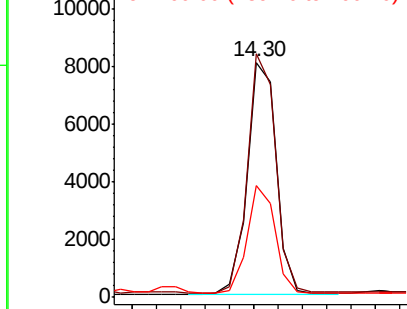
Tot Ion:	164	Resp:	13413
Ion Ratio	Lower	Upper	
164	100		
162	103.6	81.7	122.5
160	47.6	37.0	55.4

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.363 ng

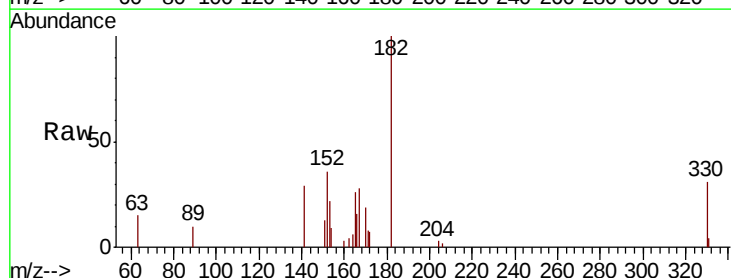
RT: 15.81 min Scan# 1454

Delta R.T. -0.01 min

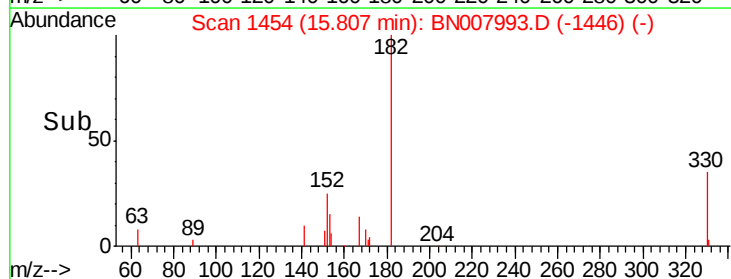
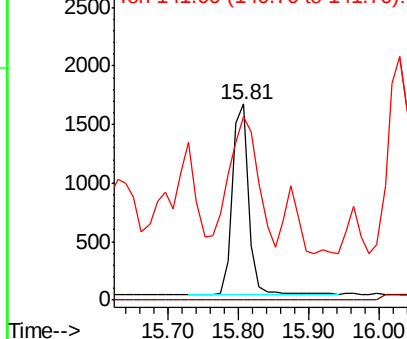
Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Tgt Ion:	330	Resp:	2650
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	119.6	28.7	43.1#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





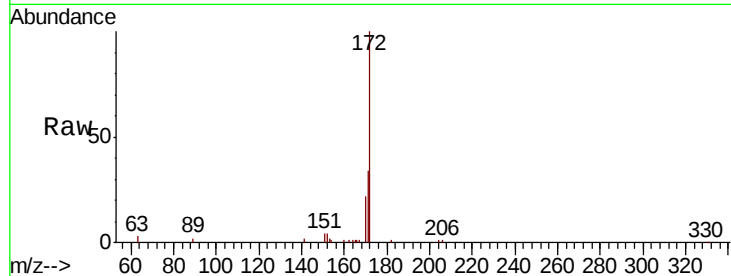
#15
2-Fluorobiphenyl
Concen: 0.299 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.8	43.2
170	22.0	19.5	29.3

Manual Integrations
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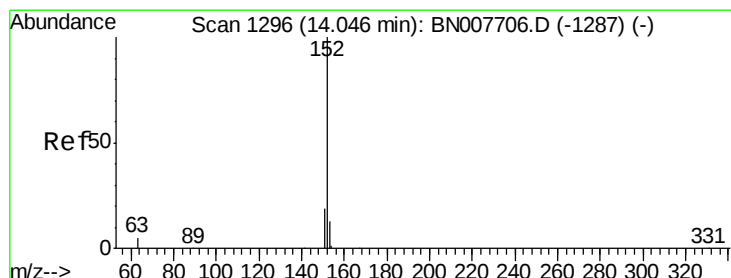
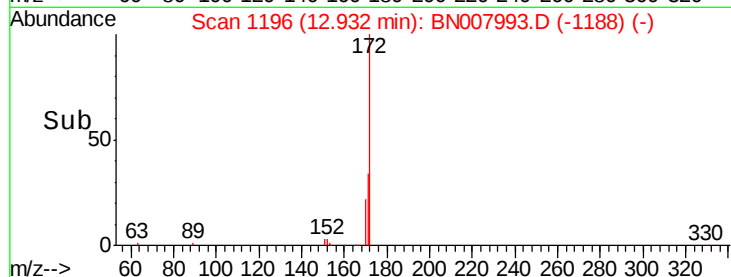
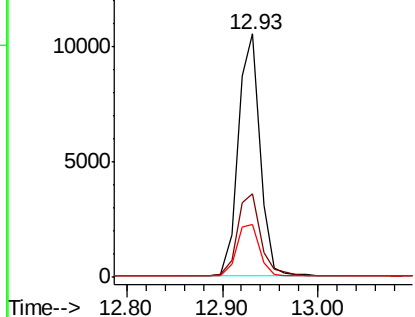


Abundance

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



#16
Acenaphthylene
Concen: 3.706 ng
RT: 14.02 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

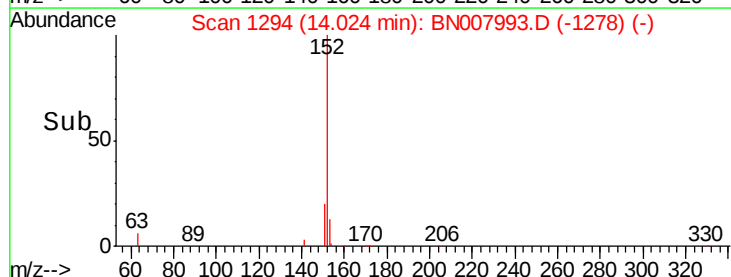
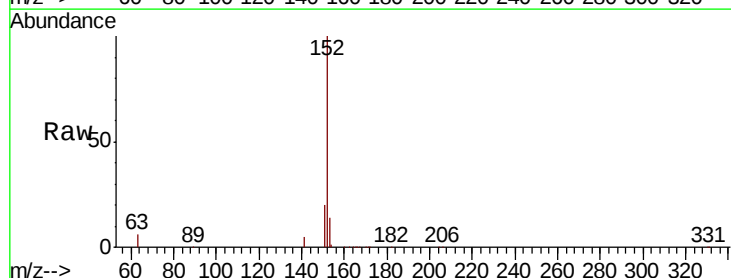
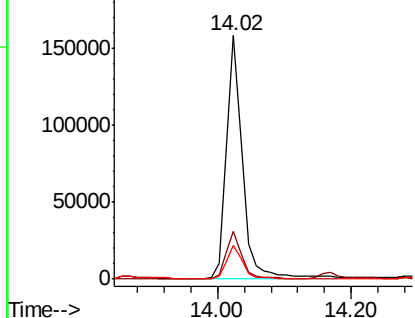
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.5	23.3
153	13.5	10.4	15.6

Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.229 ng

RT: 14.37 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Instrument :

BNA_N

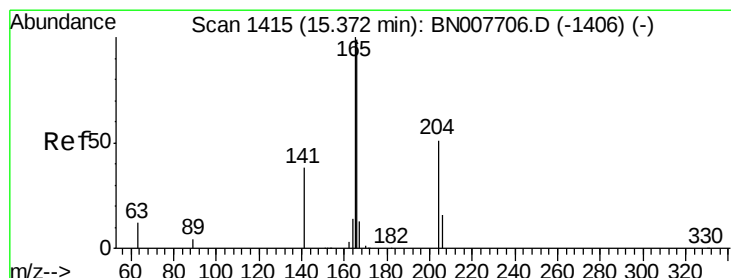
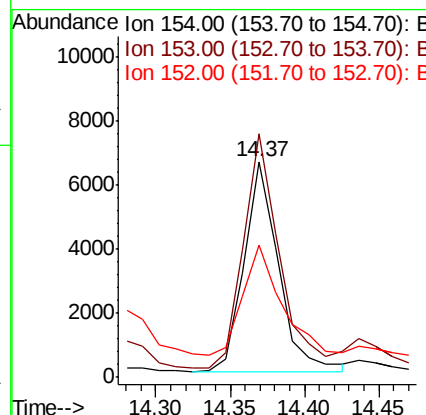
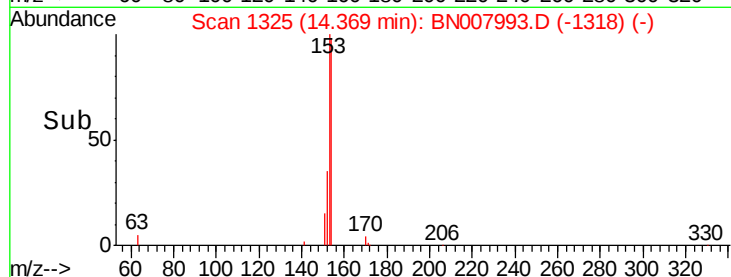
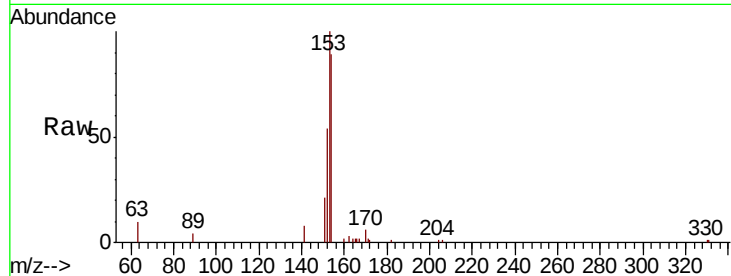
ClientSampleId :

PST-024-B266-092519

Tot Ion:	154	Resp:	10523
Ion Ratio	Lower	Upper	
154	100		
153	116.0	87.0	130.4
152	60.1	42.7	64.1

Manual Integrations
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#18

Fluorene

Concen: 0.854 ng

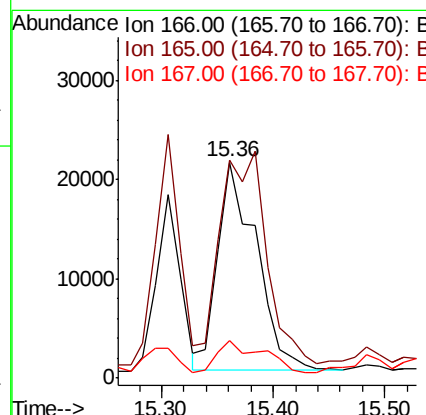
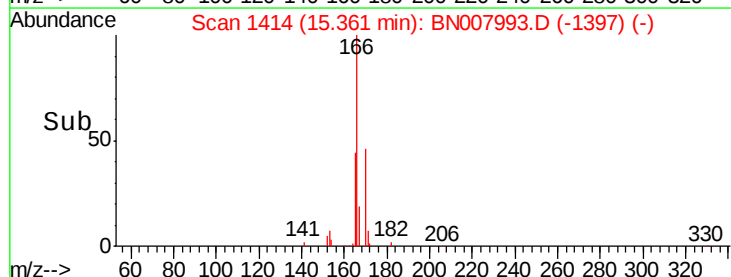
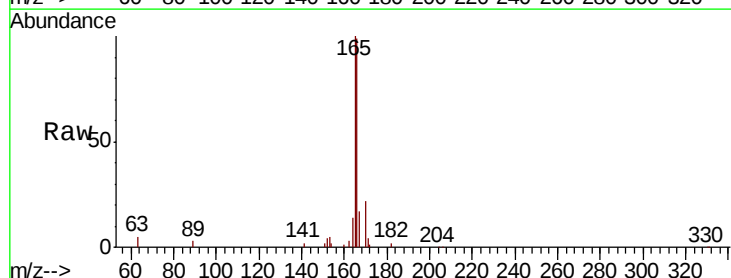
RT: 15.36 min Scan# 1414

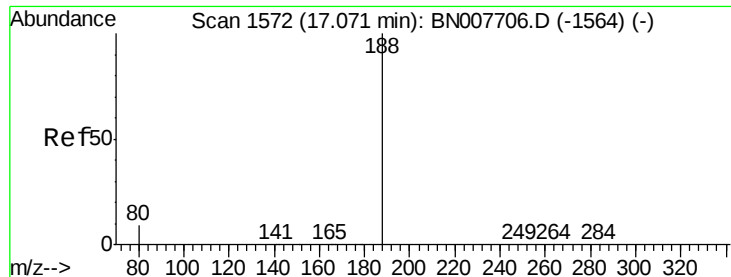
Delta R.T. -0.01 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Tgt Ion:	166	Resp:	50195
Ion Ratio	Lower	Upper	
166	100		
165	0.0	78.0	117.0#
167	17.6	10.9	16.3#





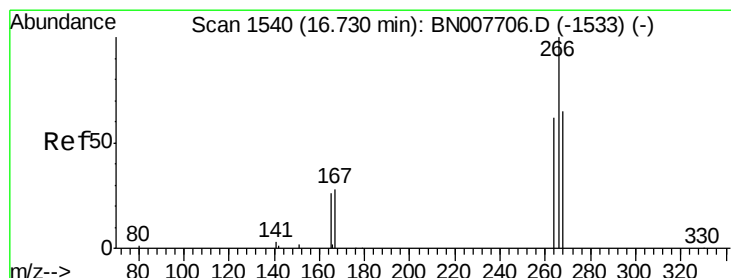
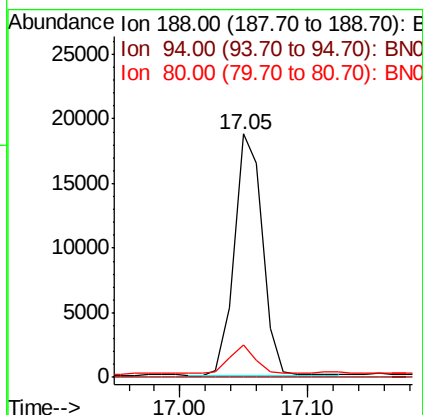
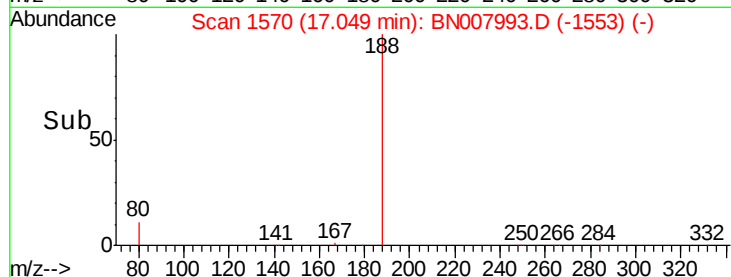
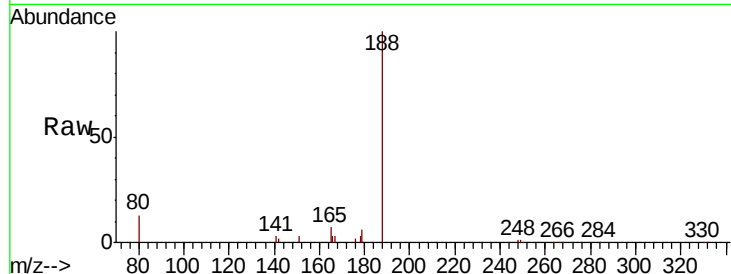
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.3	7.4	11.2

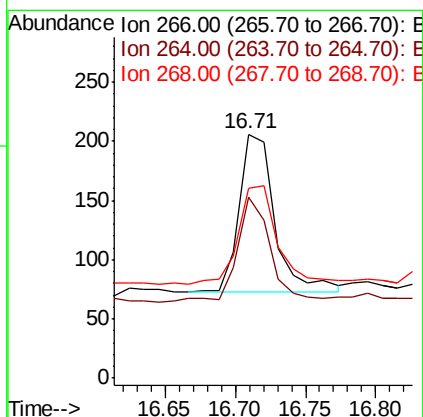
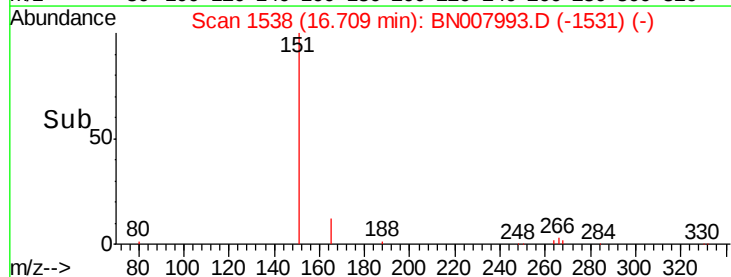
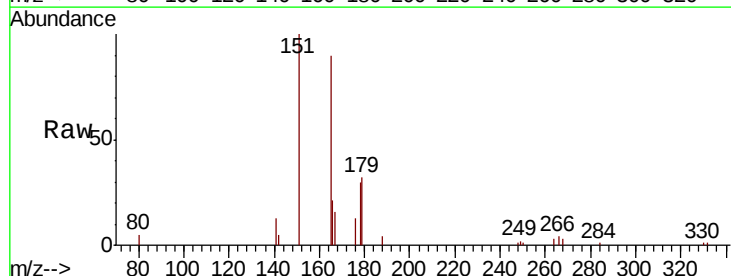
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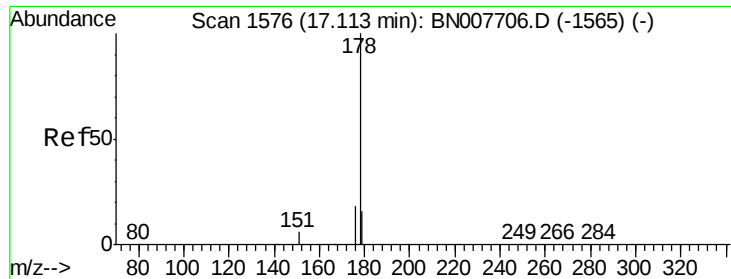
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#22
Pentachlorophenol
Concen: 0.034 ng
RT: 16.71 min Scan# 1538
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
264	74.3	50.0	75.0
268	78.2	54.2	81.4





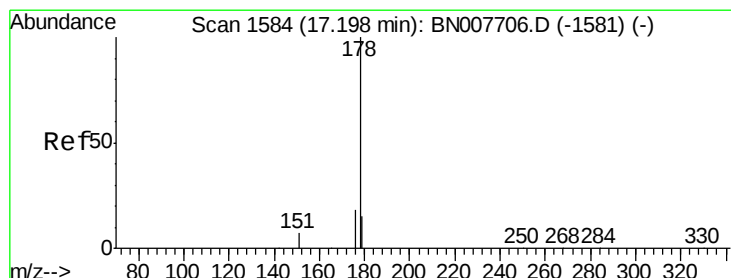
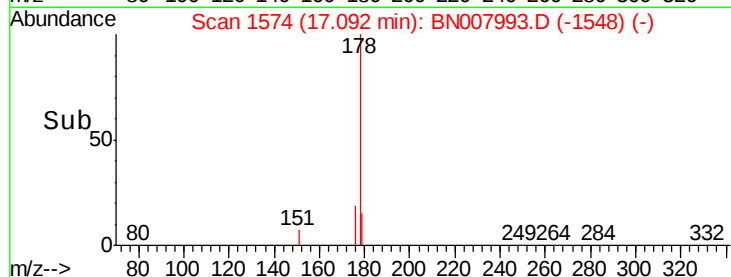
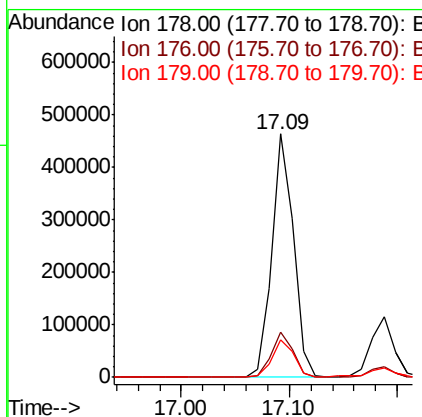
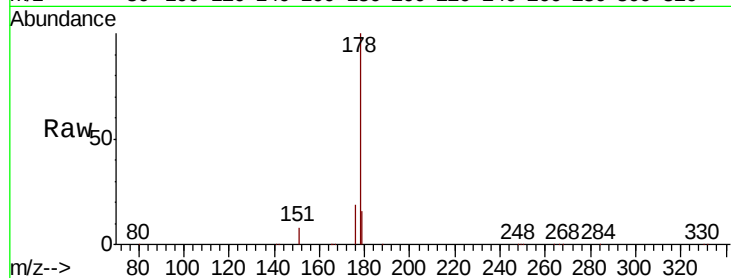
#23
Phenanthrene
Concen: 7.206 ng
RT: 17.09 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.8	12.5	18.7

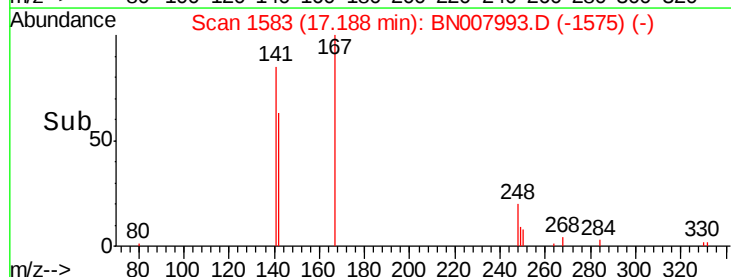
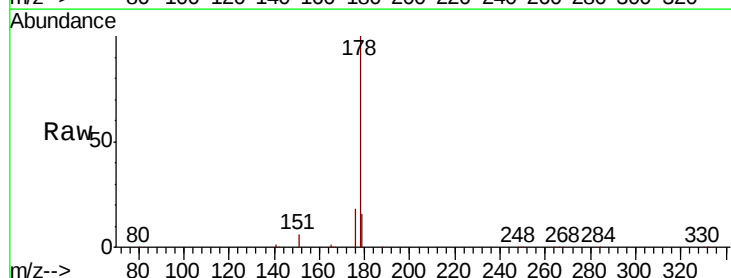
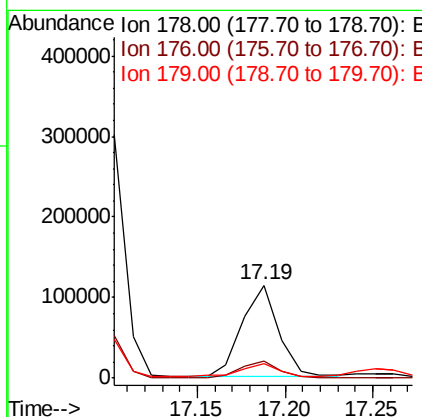
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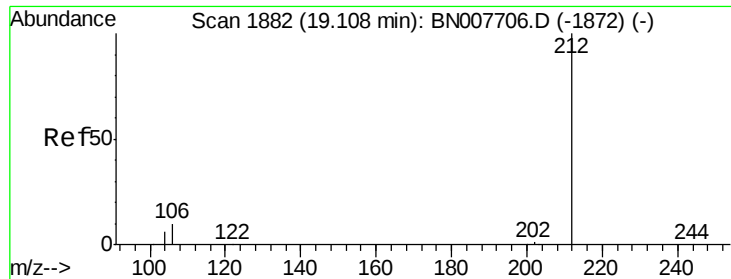
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#24
Anthracene
Concen: 2.067 ng
RT: 17.19 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	21.8
179	15.4	12.2	18.4





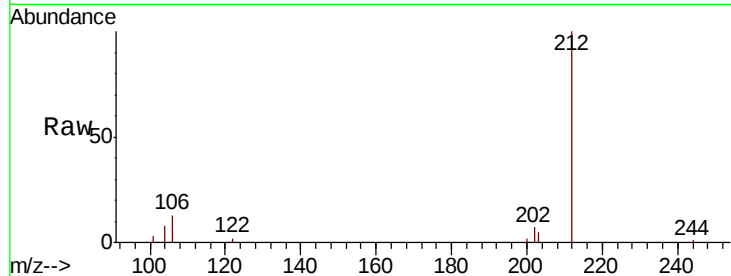
#25
 Fluoranthene-d10
 Concen: 0.348 ng
 RT: 19.09 min Scan# 1878
 Delta R.T. -0.02 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.4	14.0
104	7.3	5.3	7.9

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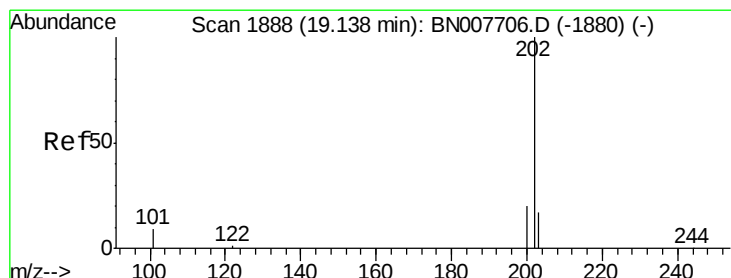
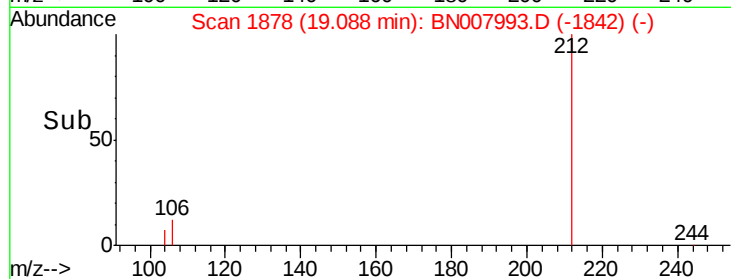
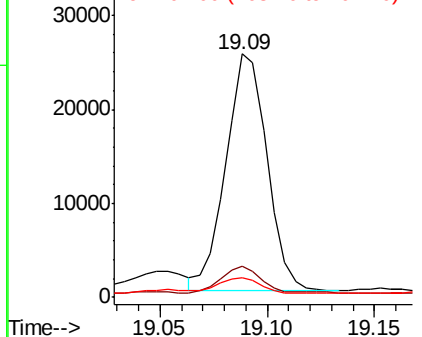


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26
 Fluoranthene
 Concen: 6.819 ng
 RT: 19.12 min Scan# 1884
 Delta R.T. -0.02 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

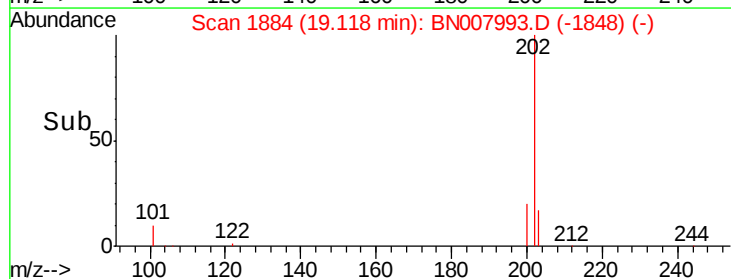
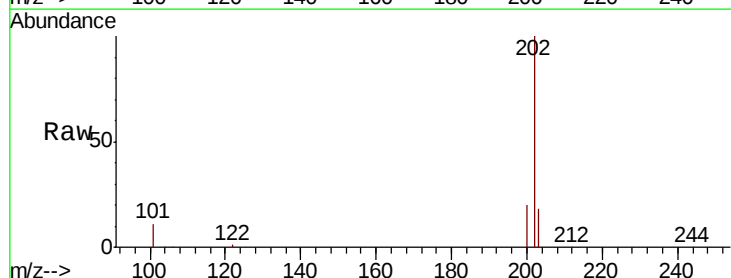
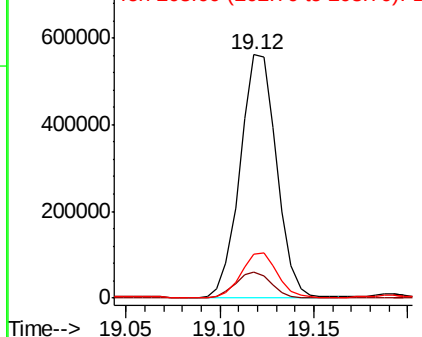
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.4	12.6
203	18.2	13.8	20.8

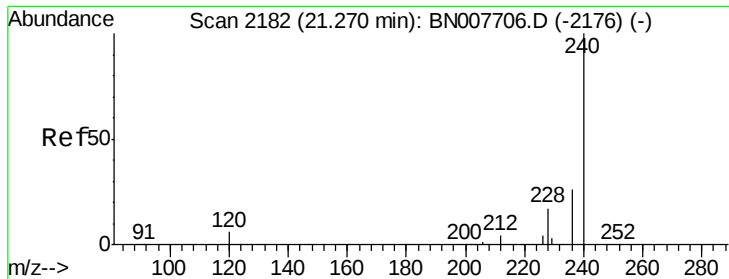
Abundance

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





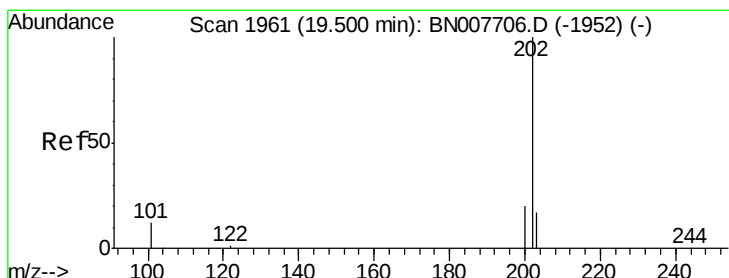
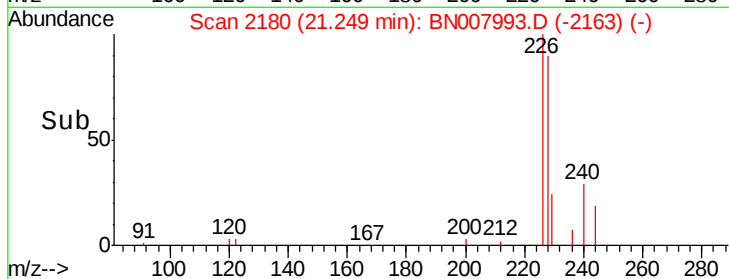
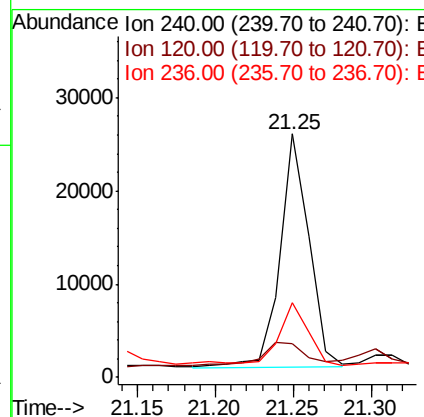
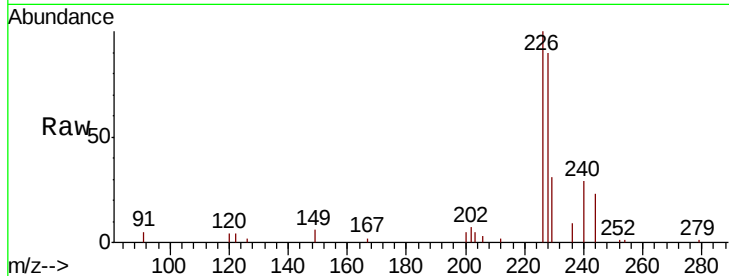
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 2180
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.1	5.4	8.2#
236	30.9	21.0	31.4

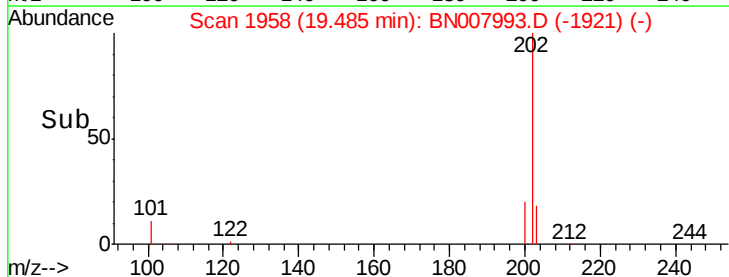
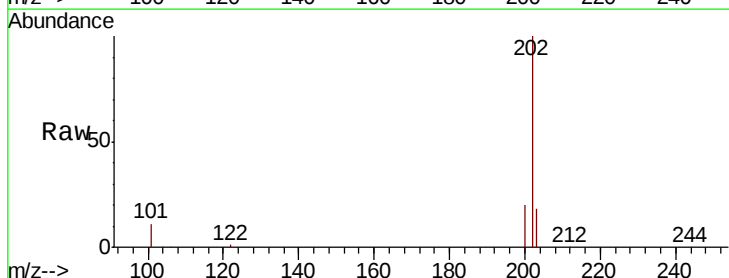
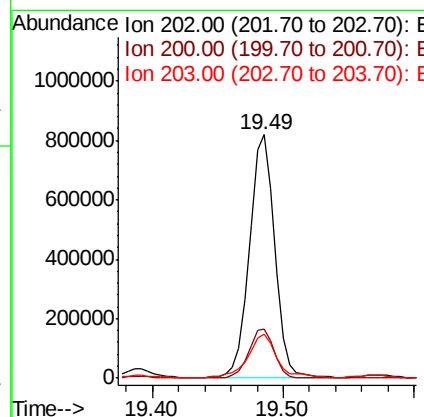
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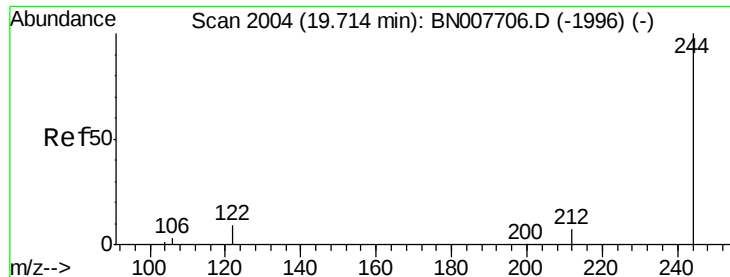
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#28
Pyrene
Concen: 9.993 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.01 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.4	24.6
203	20.1	14.1	21.1





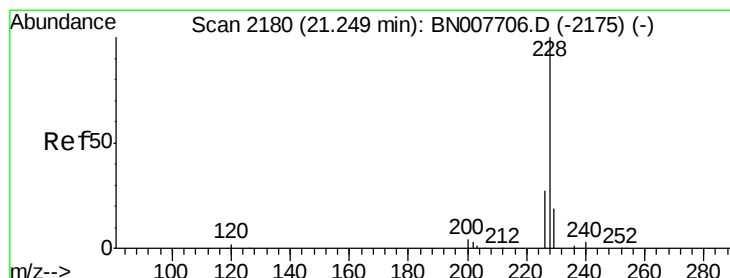
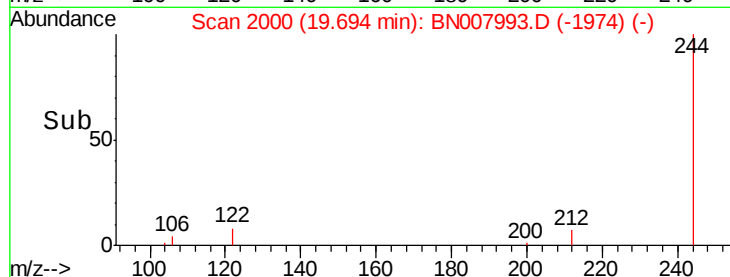
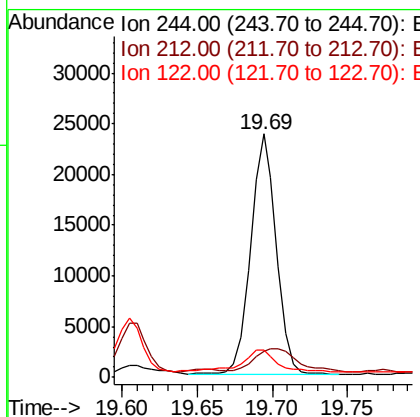
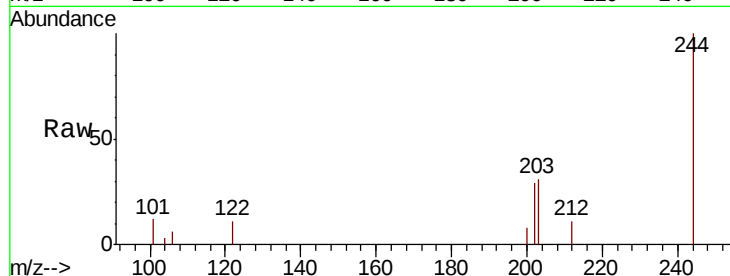
#29
 Terphenyl-d14
 Concen: 0.351 ng
 RT: 19.69 min Scan# 2000
 Delta R.T. -0.02 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.8	5.9	8.9#
122	11.2	7.4	11.2#

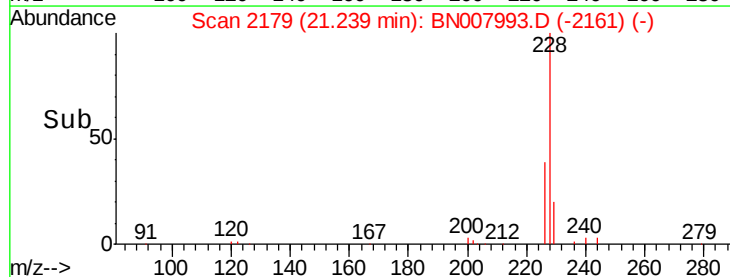
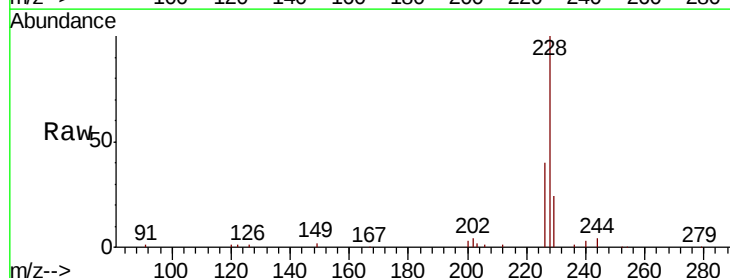
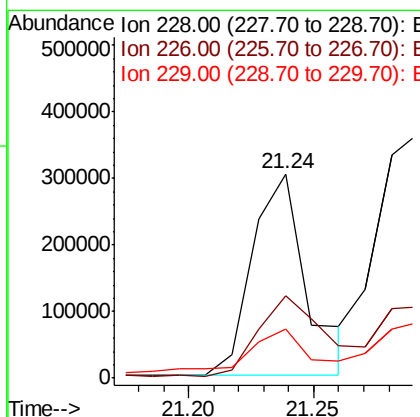
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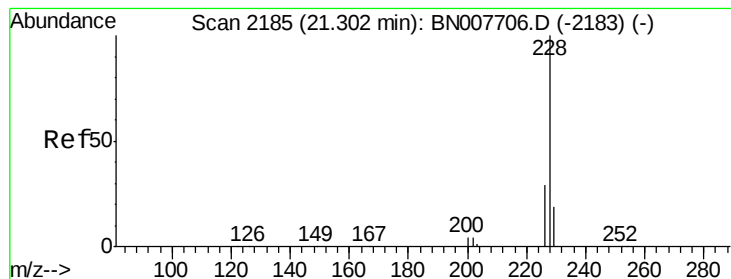
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#30
 Benzo(a)anthracene
 Concen: 3.822 ng m
 RT: 21.24 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	40.3	22.1	33.1#
229	23.8	15.8	23.6#





#31

Chrysene

Concen: 4.914 ng

RT: 21.29 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Instrument :

BNA_N

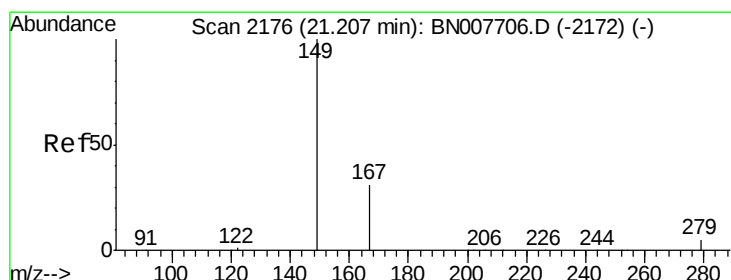
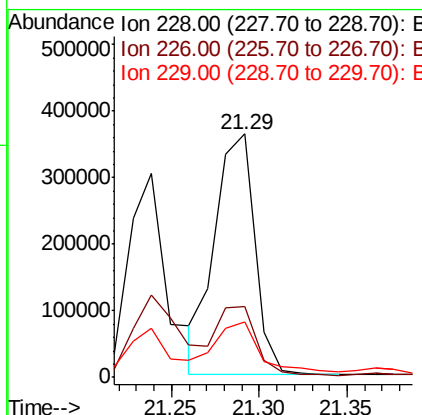
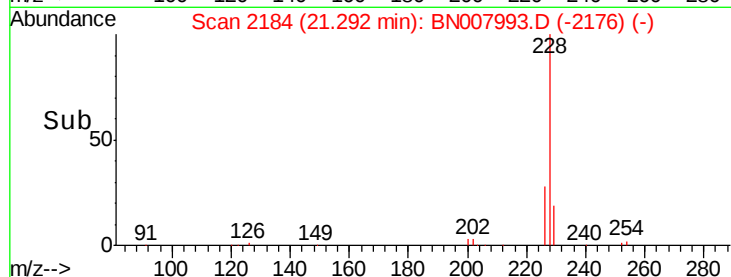
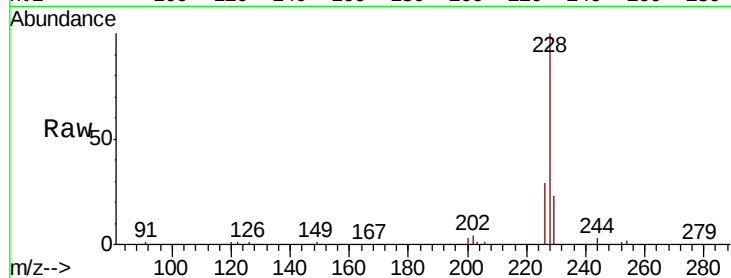
ClientSampleId :

PST-024-B266-092519

Tot Ion:	228	Resp:	571748
Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.9	35.9
229	22.8	15.8	23.6

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.793 ng

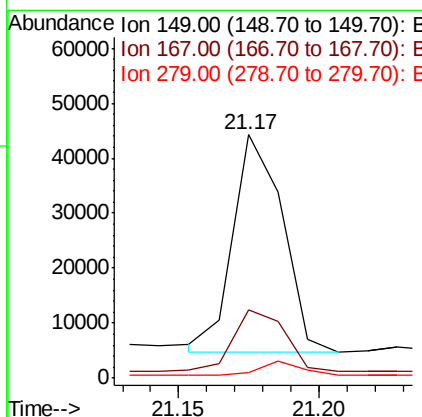
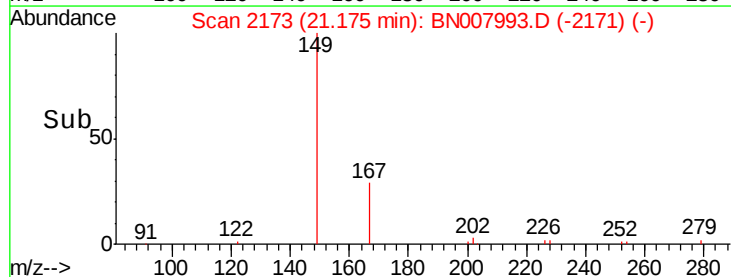
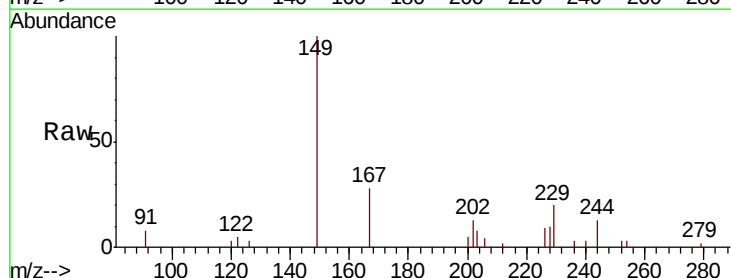
RT: 21.17 min Scan# 2173

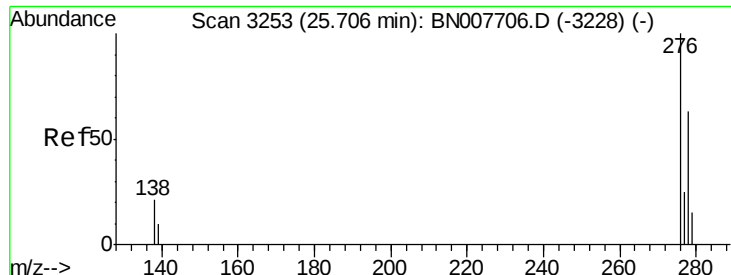
Delta R.T. -0.03 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Tgt Ion:	149	Resp:	48682
Ion	Ratio	Lower	Upper
149	100		
167	29.2	23.7	35.5
279	5.7	4.2	6.2





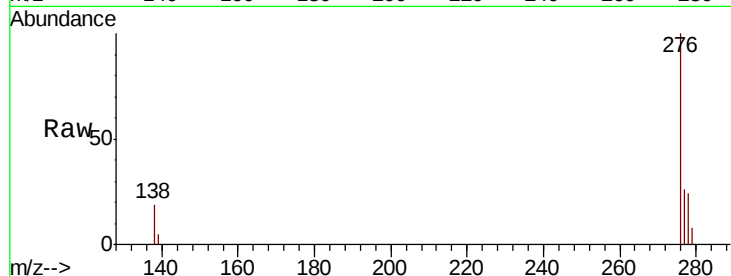
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.894 ng
 RT: 25.67 min Scan# 3243
 Delta R.T. -0.03 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.1	17.1	25.7#
277	25.0	20.0	30.0

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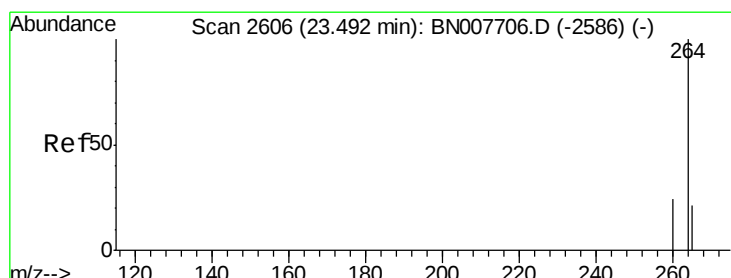
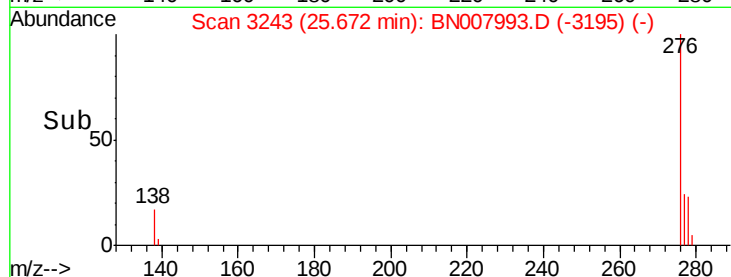
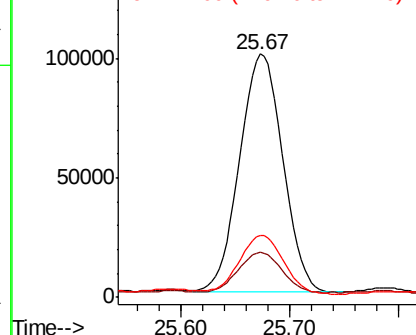


Abundance

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



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.46 min Scan# 2598
 Delta R.T. -0.03 min
 Lab File: BN007993.D
 Acq: 03 Oct 2019 22:47

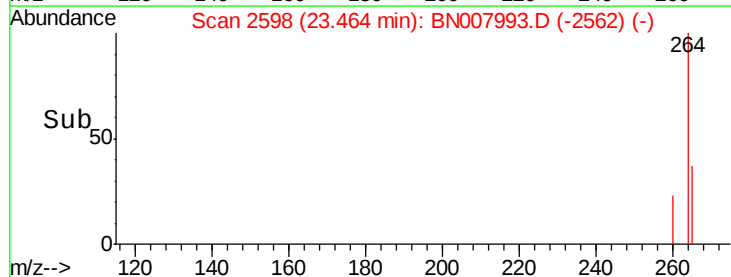
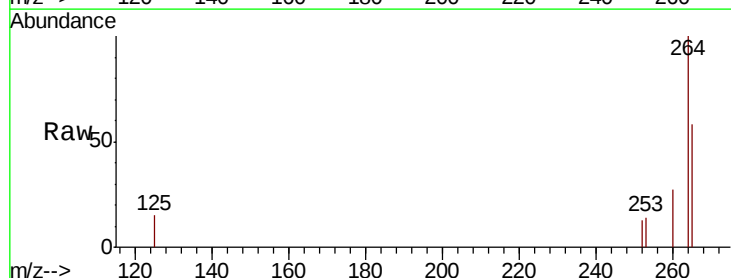
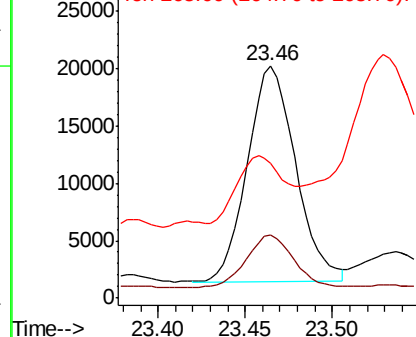
Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.1	19.3	28.9
265	58.2	26.9	40.3#

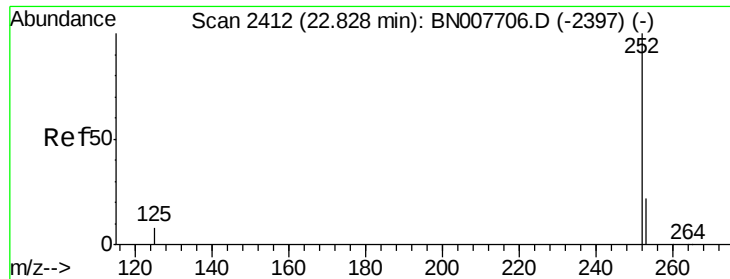
Abundance

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





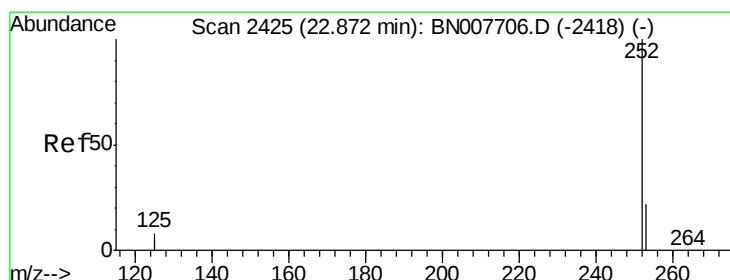
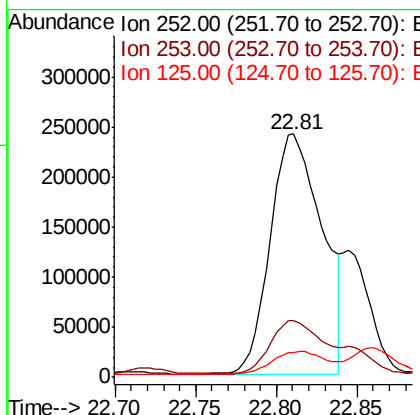
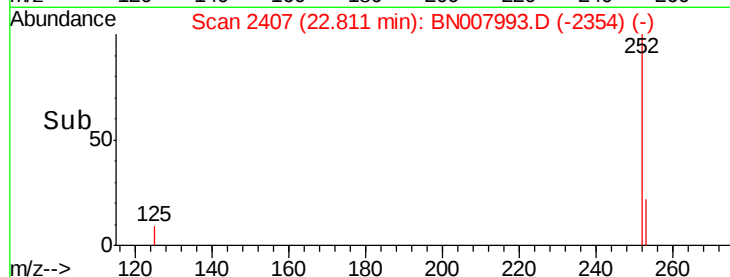
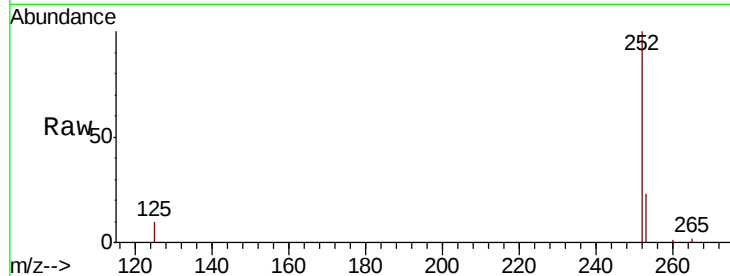
#35
Benzo(b)fluoranthene
Concen: 4.209 ng
RT: 22.81 min Scan# 2407
Delta R.T. -0.02 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Instrument :
BNA_N
ClientSampleId :
PST-024-B266-092519

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.3	27.5
125	10.4	8.2	12.4

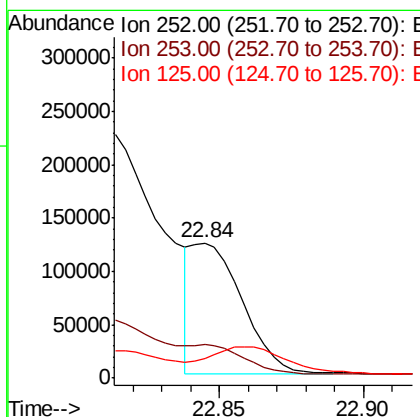
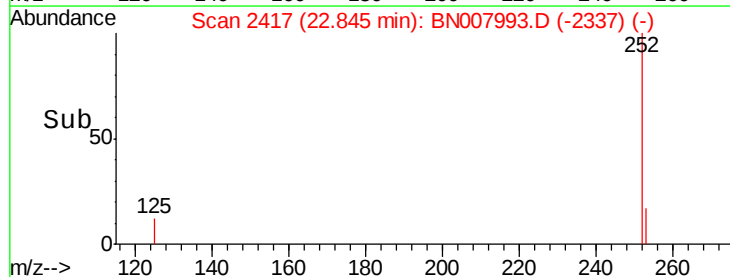
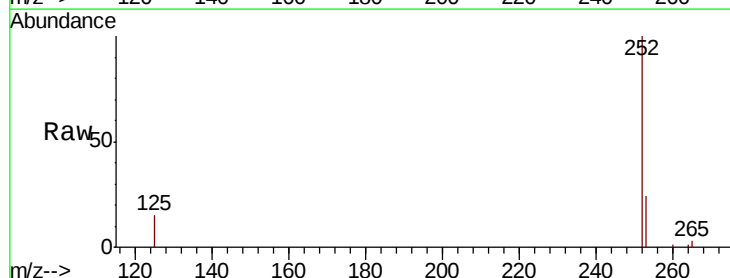
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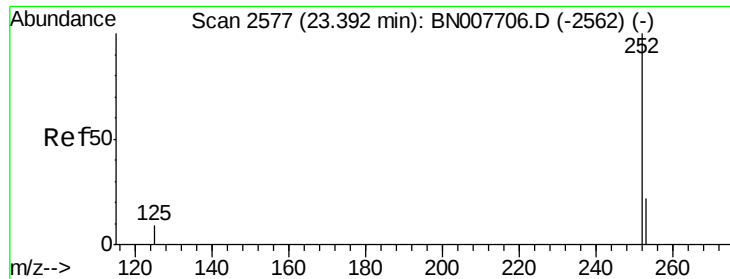
mohammad
10/7/2019 8:27:28 AM



#36
Benzo(k)fluoranthene
Concen: 1.185 ng m
RT: 22.84 min Scan# 2417
Delta R.T. -0.03 min
Lab File: BN007993.D
Acq: 03 Oct 2019 22:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.5	27.7
125	14.7	8.4	12.6#





#37

Benzo(a)pyrene

Concen: 3.411 ng

RT: 23.37 min Scan# 2570

Delta R.T. -0.02 min

Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Instrument :

BNA_N

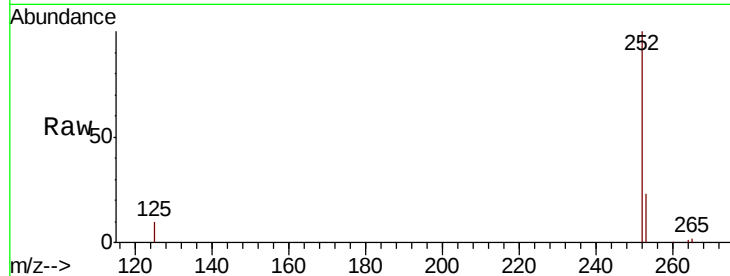
ClientSampleId :

PST-024-B266-092519

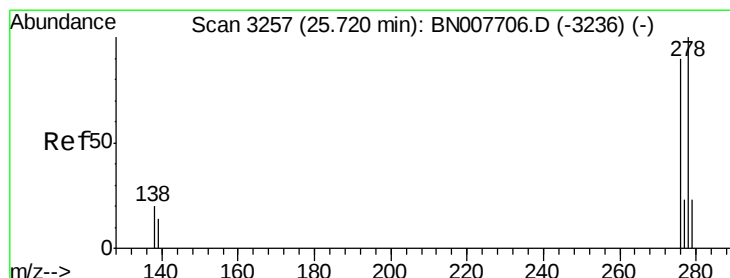
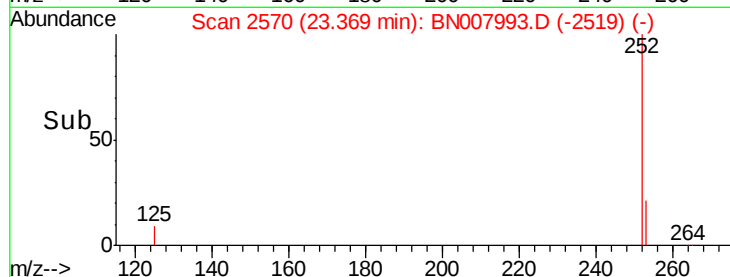
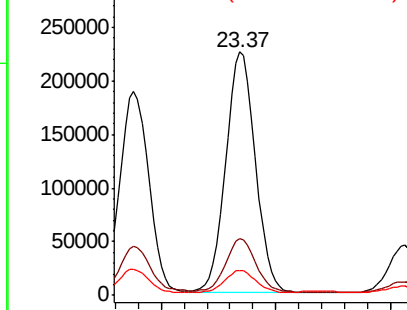
Tot Ion:	252	Resp:	406441
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.6	27.8
125	10.3	9.4	14.0

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



#38

Dibenzo(a,h)anthracene

Concen: 0.636 ng

RT: 25.68 min Scan# 3245

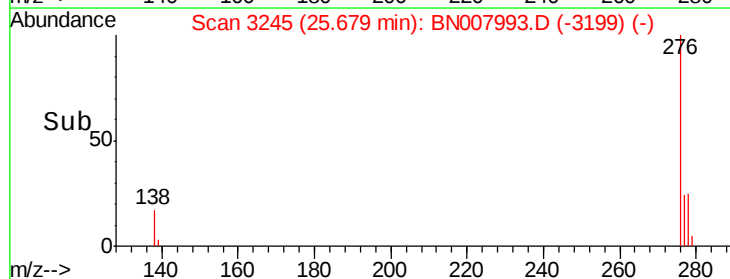
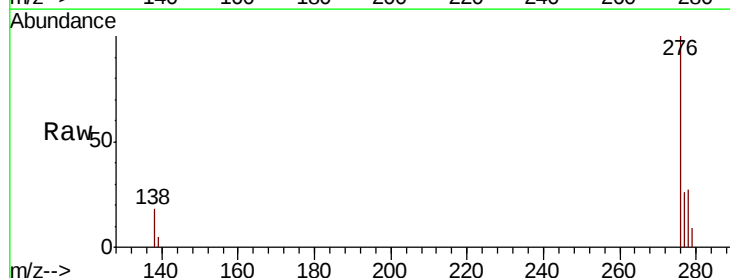
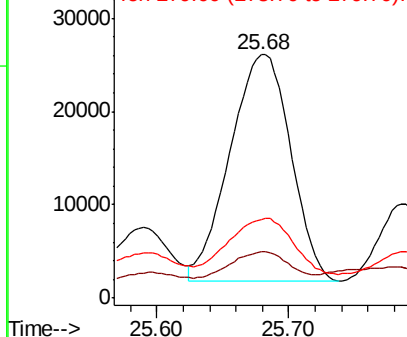
Delta R.T. -0.04 min

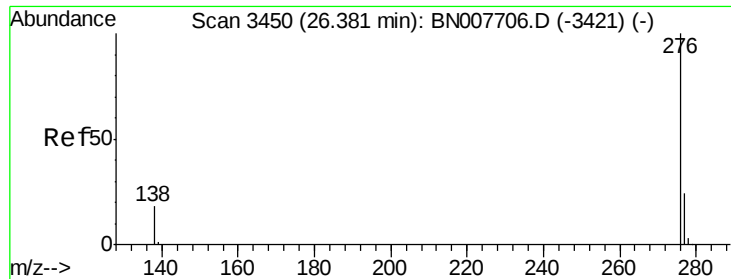
Lab File: BN007993.D

Acq: 03 Oct 2019 22:47

Tgt Ion:	278	Resp:	77511
Ion Ratio	Lower	Upper	
278	100		
139	18.9	11.8	17.6#
279	32.3	19.4	29.2#

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





#39

Benzo(a,h,i)perylene

Concen: 2.601 ng

RT: 26.35 min Scan# 3441

Delta R.T. -0.03 min

Lab File: BN007993.D

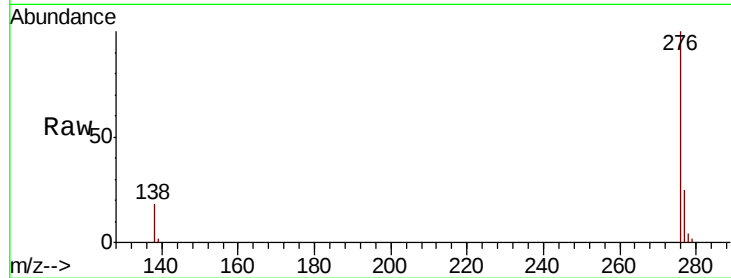
Acq: 03 Oct 2019 22:47

Instrument :

BNA_N

ClientSampleId :

PST-024-B266-092519



Tot Ion	Ion	Ratio	Resp	Lower	Upper
313802	276	100			
	277	24.9		19.8	29.8
	138	18.4		15.1	22.7

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:28 AM

