

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032919\
 Data File : BN005027.D
 Acq On : 29 Mar 2019 10:32
 Operator : JU/SJ
 Sample : K1825-21
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Manual Integrations
 APPROVED

Sohil
 4/8/2019 9:41:58 AM

Quant Time: Apr 01 09:23:30 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Mar 29 03:42:17 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	2793	0.40	ng	0.00
7) Naphthalene-d8	10.44	136	11513	0.40	ng	0.00
13) Acenaphthene-d10	14.30	164	6858	0.40	ng	0.00
19) Phenanthrene-d10	17.06	188	16789	0.40	ng	0.00
27) Chrysene-d12	21.26	240	21593	0.40	ng	0.00
34) Perylene-d12	23.50	264	19538	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.26	112	2770	0.40	ng	0.00
5) Phenol-d6	6.85	99	3386	0.41	ng	0.00
8) Nitrobenzene-d5	8.83	82	2377	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	6508	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.81	330	1190	0.31	ng	0.00
15) 2-Fluorobiphenyl	12.93	172	10198	0.39	ng	0.01
25) Fluoranthene-d10	19.09	212	18394	0.38	ng	0.00
29) Terphenyl-d14	19.69	244	15348	0.35	ng	0.00

Target Compounds

						Qvalue
6) bis(2-Chloroethyl)ether	7.08	93	18	0.002	ng	# 36
9) Naphthalene	10.49	128	109500	3.783	ng	98
10) Hexachlorobutadiene	10.76	225	3	0.001	ng	# 97
12) 2-Methylnaphthalene	12.12	142	32	0.002	ng	# 58
16) Acenaphthylene	14.02	152	264966	8.185	ng	100
17) Acenaphthene	14.37	154	272072	13.235	ng	98
18) Fluorene	15.36	166	136486	4.947	ng	100
20) 4-Bromophenyl-phenylether	16.26	248	8	0.001	ng	# 70
21) Hexachlorobenzene	16.36	284	17	0.002	ng	# 80
23) Phenanthrene	17.09	178	112119	2.386	ng	100
24) Anthracene	17.18	178	122801	2.934	ng	100
26) Fluoranthene	19.12	202	114037	1.981	ng	100
28) Pyrene	19.49	202	52354	0.854	ng	99
30) Benzo(a)anthracene	21.24	228	211289	3.470	ng	99
31) Chrysene	21.29	228	139111	2.119	ng	98
33) Indeno(1,2,3-cd)pyrene	25.73	276	196006	2.656	ng	97
35) Benzo(b)fluoranthene	22.82	252	253462	4.046	ng	96
36) Benzo(k)fluoranthene	22.86	252	33657	0.556	ng	98
37) Benzo(a)pyrene	23.40	252	36683	0.659	ng	97
38) Dibenzo(a,h)anthracene	25.75	278	84150	1.510	ng	98
39) Benzo(g,h,i)perylene	26.43	276	63679	1.135	ng	98

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

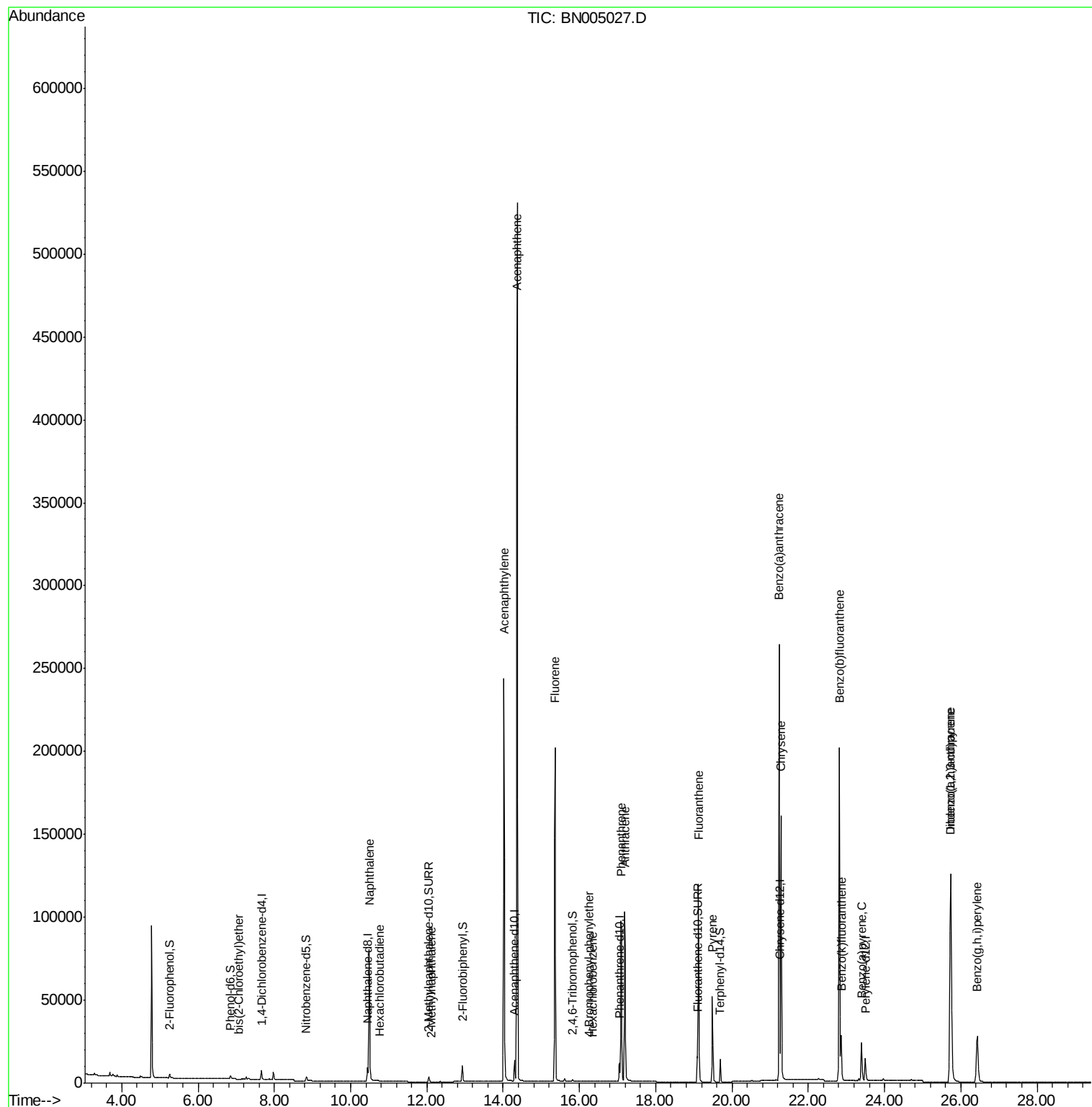
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032919\
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#1

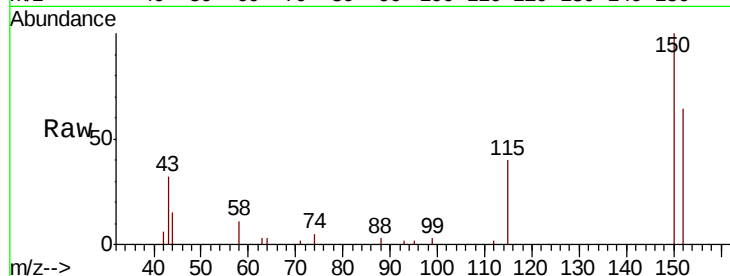
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.66 min Scan# 575
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	123.4	185.2
115	62.7	50.0	75.0

Manual Integrations
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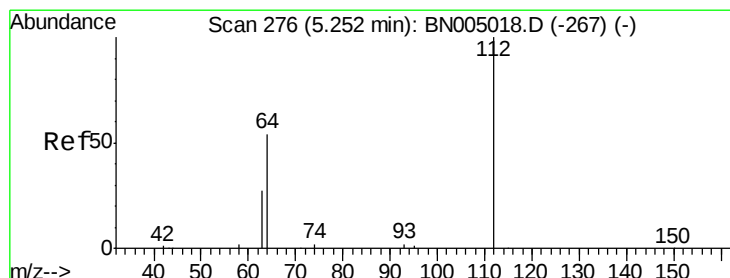
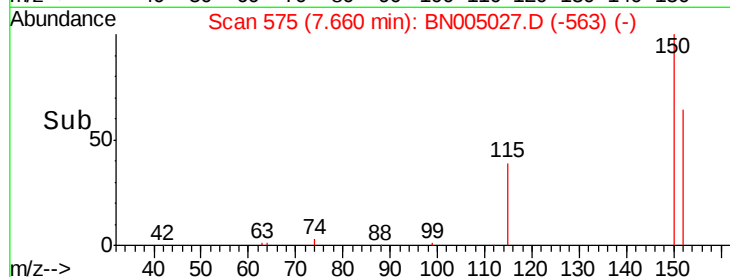
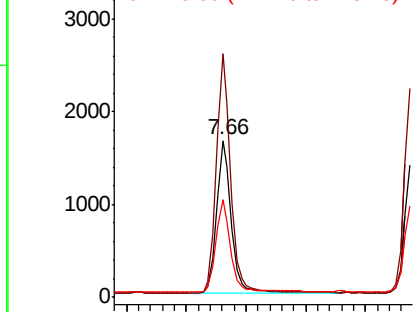


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

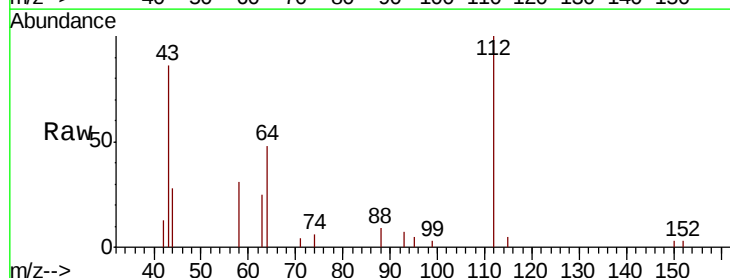
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.397 ng
RT: 5.26 min Scan# 277
Delta R.T. 0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	41.9	62.9
63	26.3	21.5	32.3

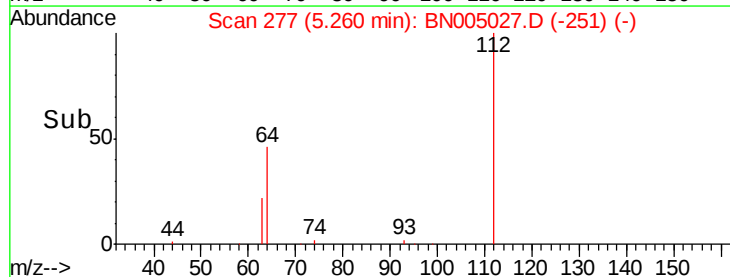
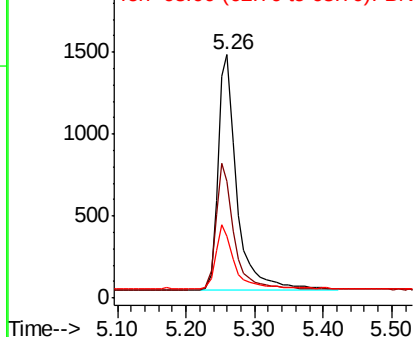


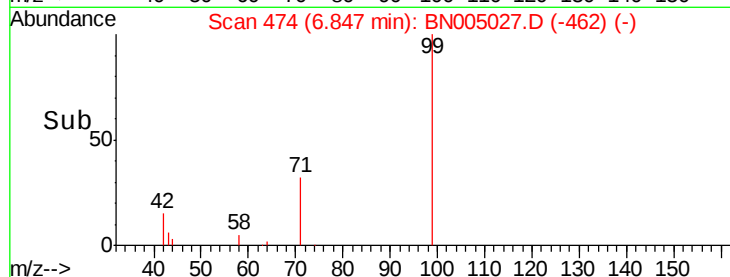
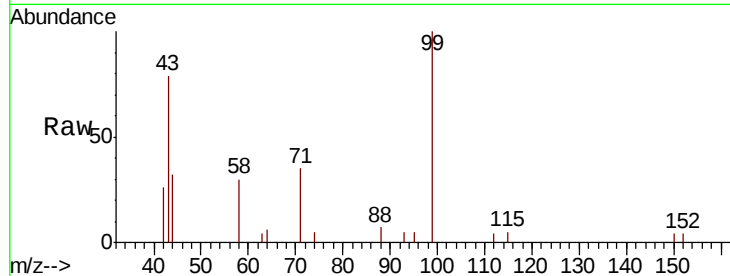
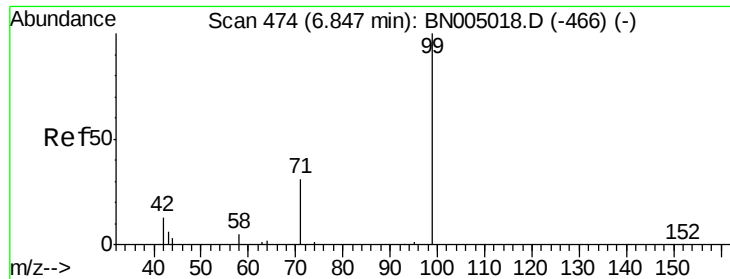
Abundance

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: 0.410 ng

RT: 6.85 min Scan# 474

Delta R.T. 0.00 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

Tot Ion:	99	Resp:	3386
Ion	Ratio	Lower	Upper
99	100		
42	14.5	12.2	18.2
71	30.1	26.1	39.1

Instrument :

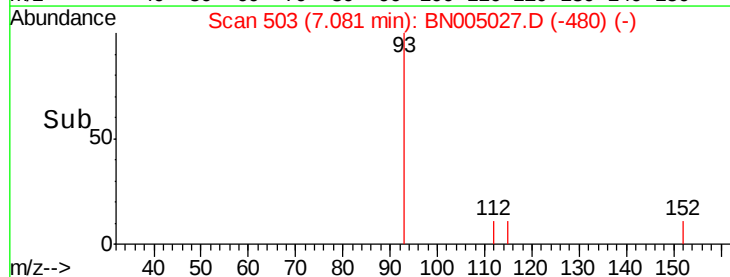
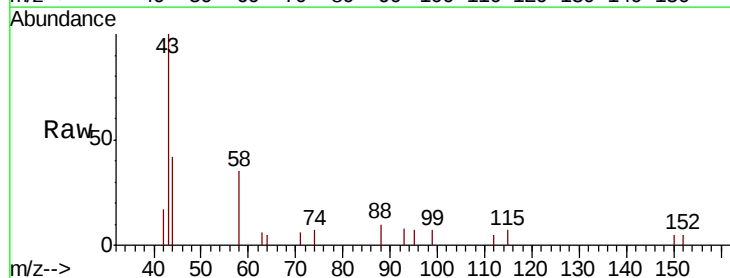
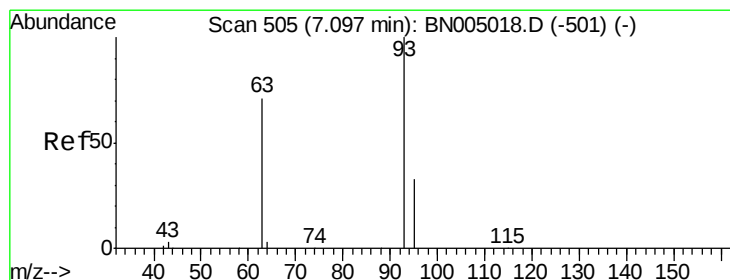
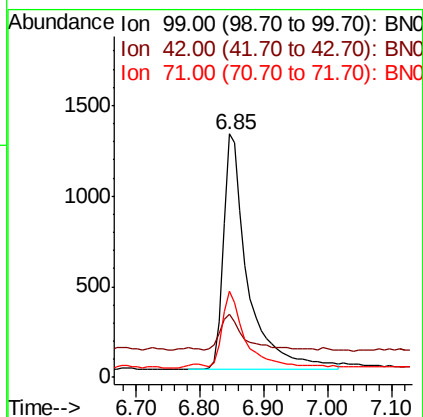
BNA_N

ClientSampled :

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#6

bis(2-Chloroethyl)ether

Concen: 0.002 ng

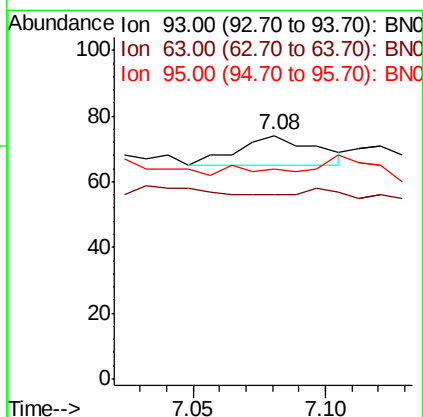
RT: 7.08 min Scan# 503

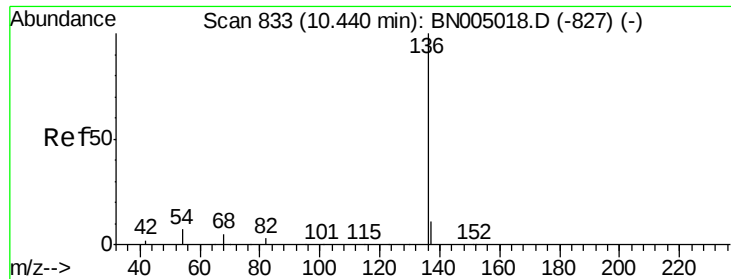
Delta R.T. -0.02 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

Tgt Ion:	93	Resp:	18
Ion	Ratio	Lower	Upper
93	100		
63	0.0	51.8	77.6#
95	16.7	24.8	37.2#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.44 min Scan# 833

Delta R.T. 0.00 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

Instrument :

BNA_N

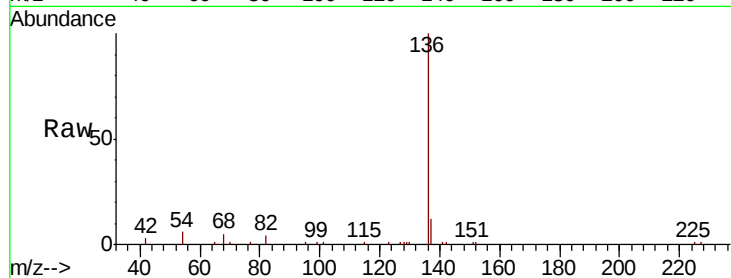
ClientSampled :

RR-PAH-WP

Tot Ion:	136	Resp:	11513
Ion Ratio	Lower	Upper	
136	100		
137	11.7	9.2	13.8
54	6.3	6.0	9.0
68	5.3	5.0	7.6

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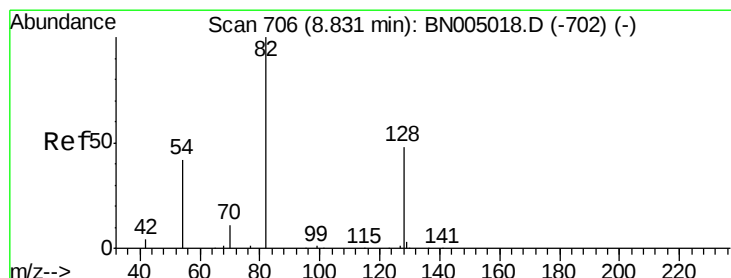
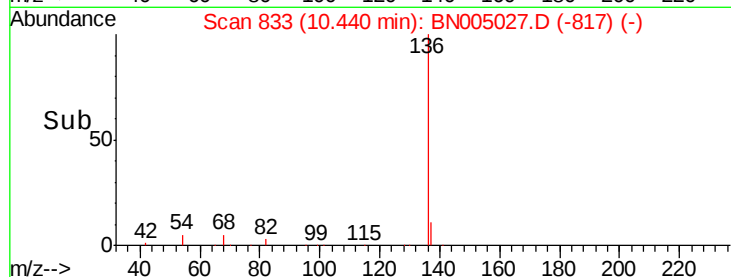
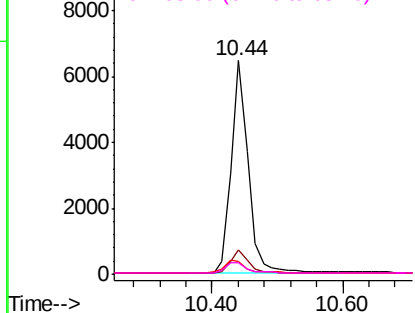


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.356 ng

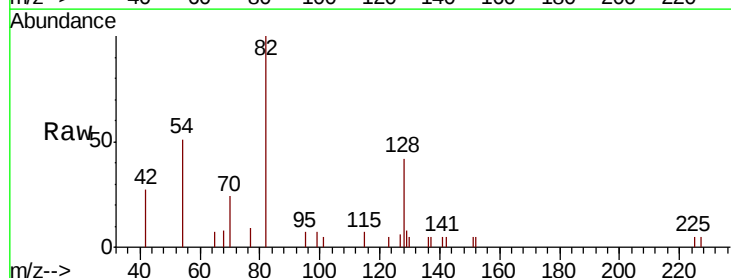
RT: 8.83 min Scan# 706

Delta R.T. 0.00 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

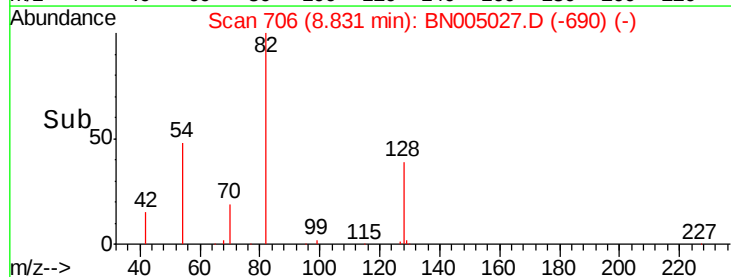
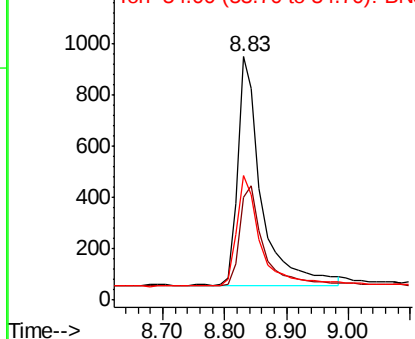
Tgt Ion:	82	Resp:	2377
Ion Ratio	Lower	Upper	
82	100		
128	42.1	40.5	60.7
54	51.3	35.7	53.5

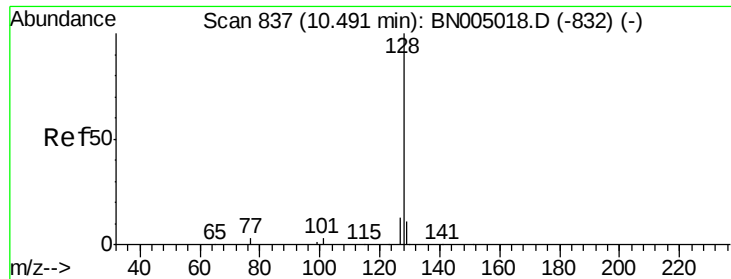


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





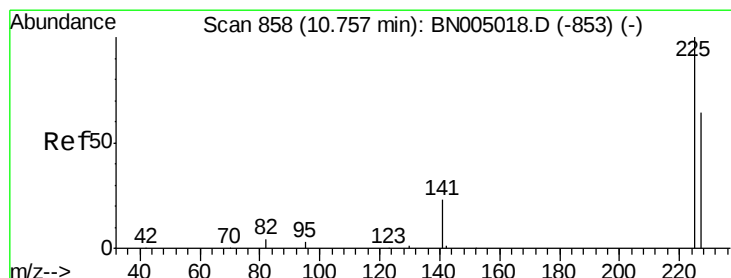
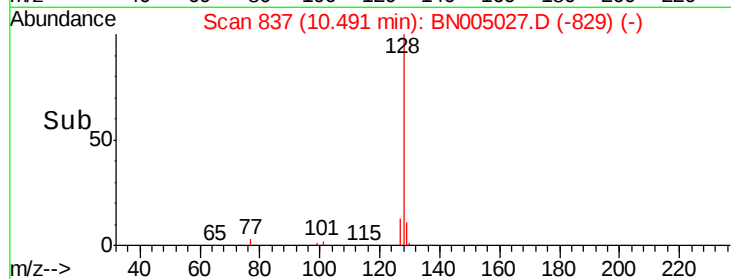
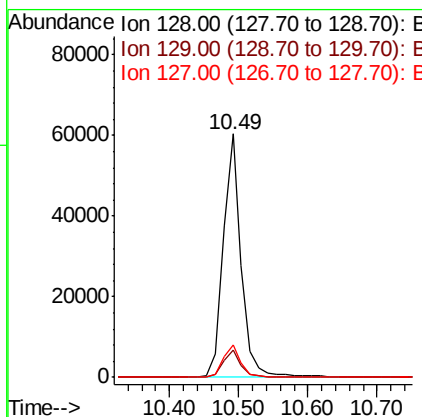
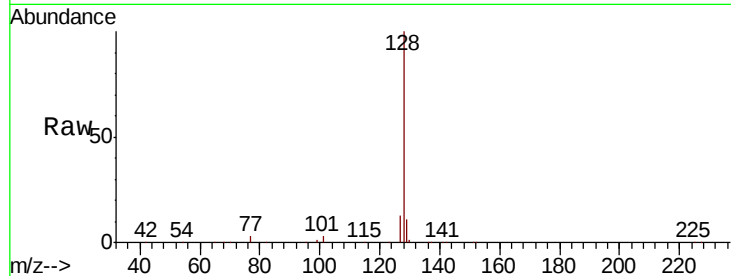
#9
Naphthalene
Concen: 3.783 ng
RT: 10.49 min Scan# 837
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.4	14.2
127	13.2	11.0	16.6

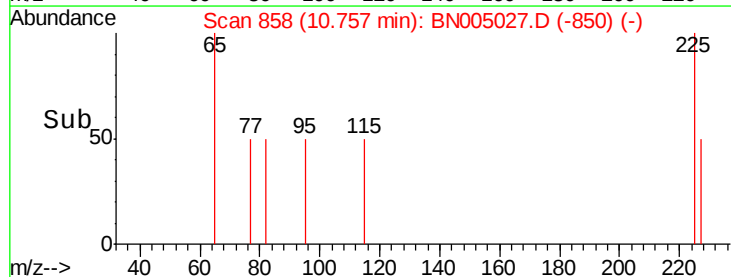
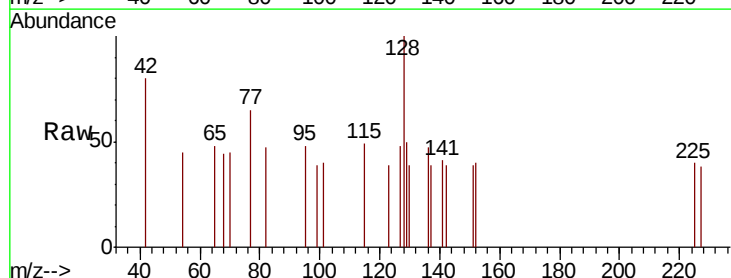
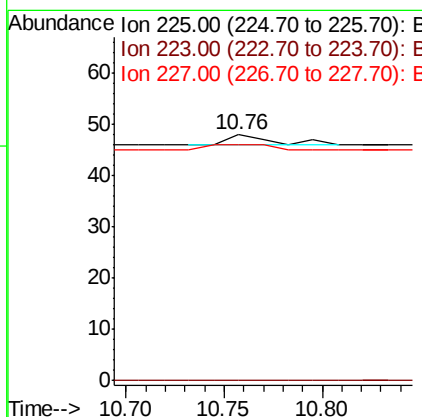
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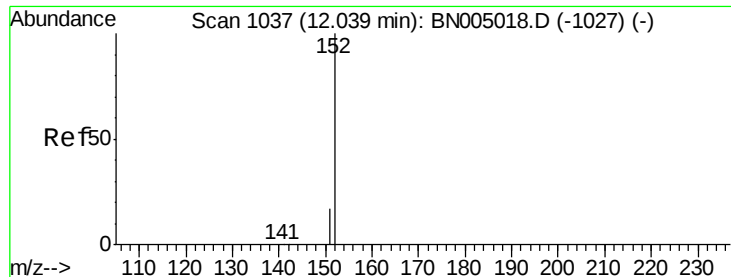
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#10
Hexachlorobutadiene
Concen: 0.001 ng
RT: 10.76 min Scan# 858
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.7	51.5	77.3





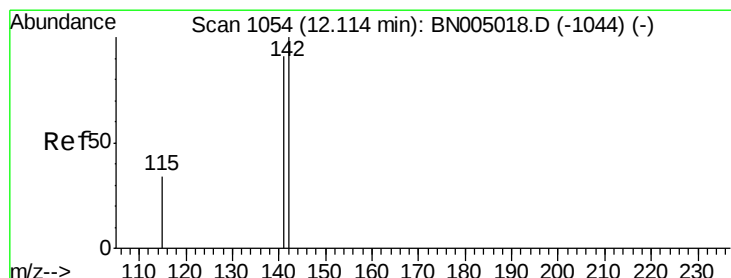
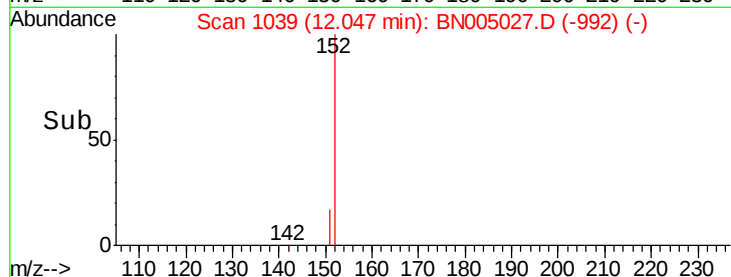
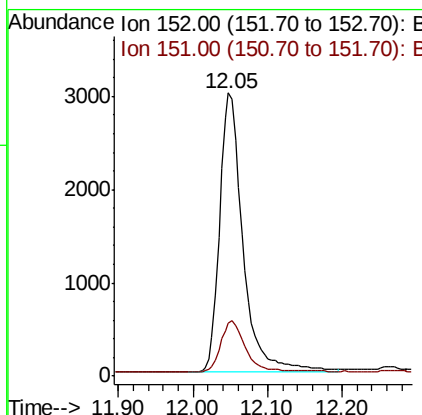
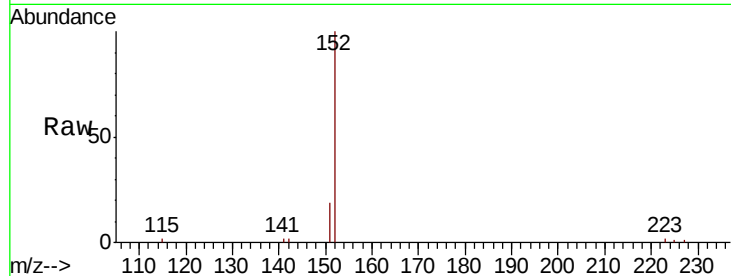
#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.05 min Scan# 1039
Delta R.T. 0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.3	22.9

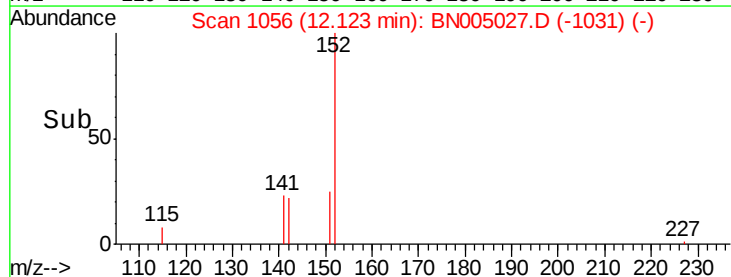
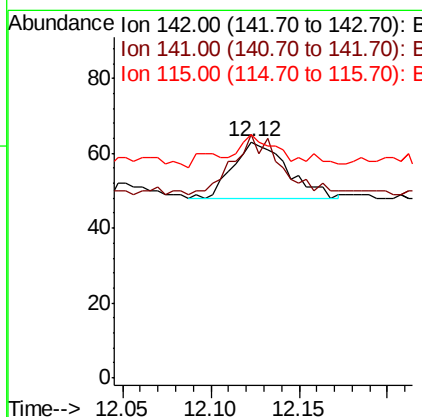
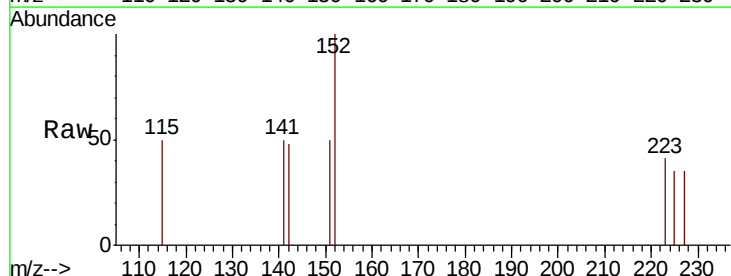
Manual Integrations
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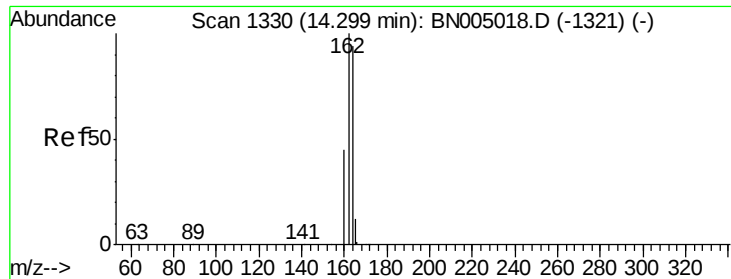
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#12
2-Methylnaphthalene
Concen: 0.002 ng
RT: 12.12 min Scan# 1056
Delta R.T. 0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	103.2	72.6	108.8
115	103.2	27.8	41.8#





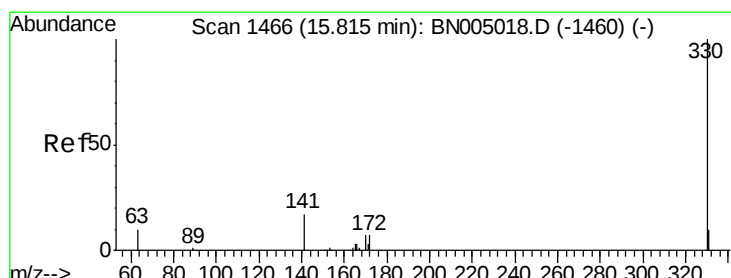
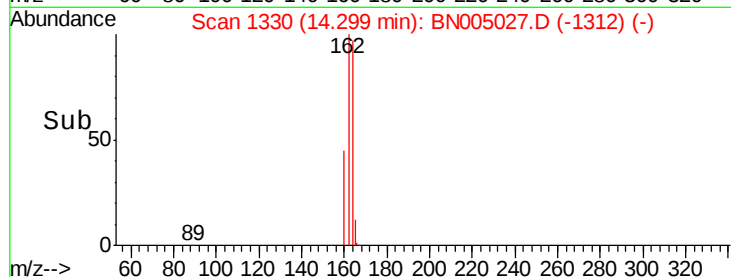
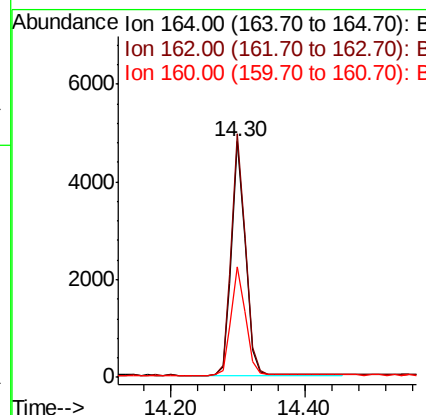
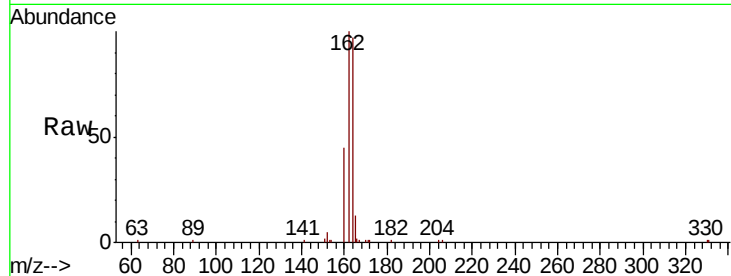
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.30 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.5	85.3	127.9
160	46.8	39.2	58.8

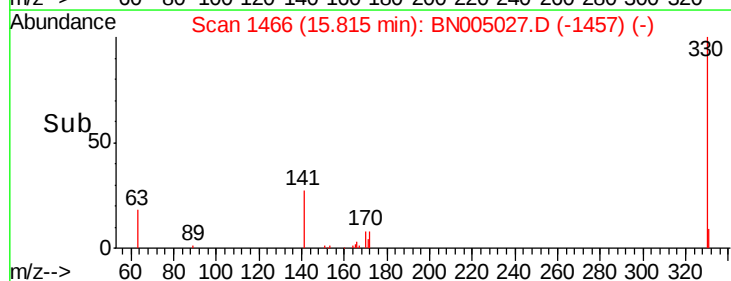
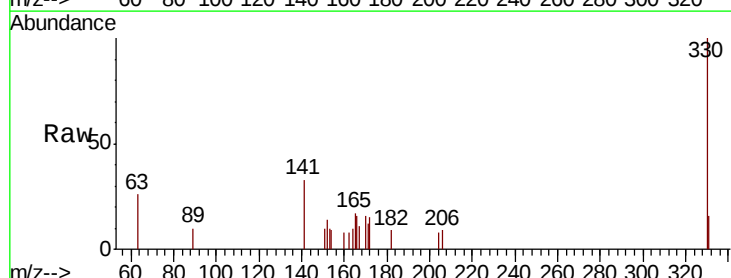
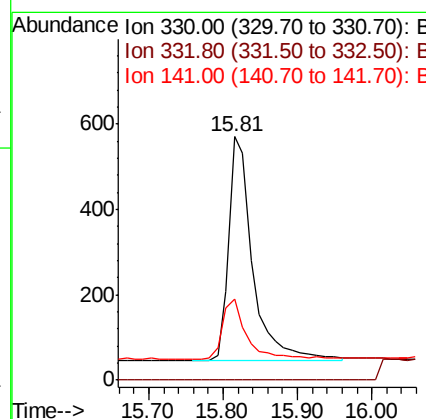
Manual Integrations
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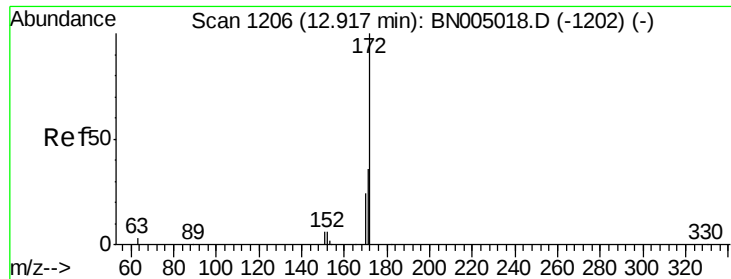
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#14
 2,4,6-Tribromophenol
 Concen: 0.309 ng
 RT: 15.81 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	27.1	21.3	31.9





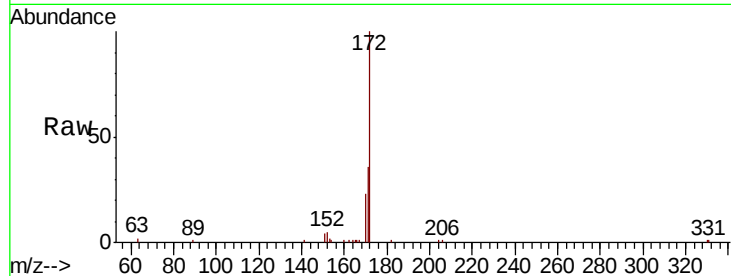
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.93 min Scan# 1207
Delta R.T. 0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.4	44.0
170	22.8	20.0	30.0

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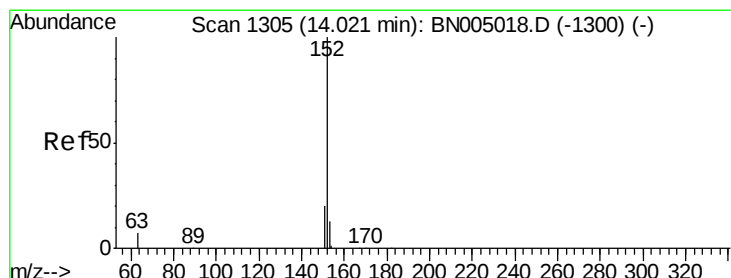
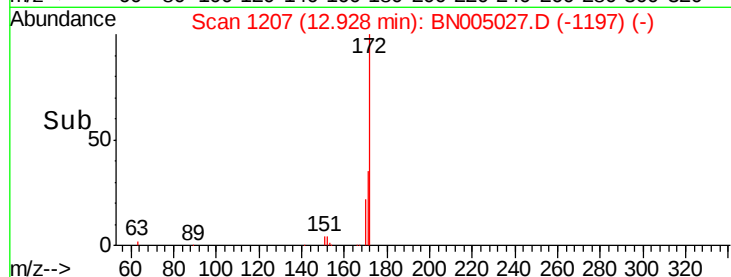
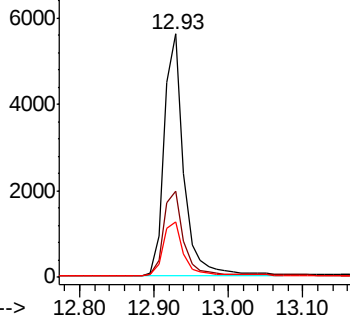


Abundance

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: 8.185 ng
RT: 14.02 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

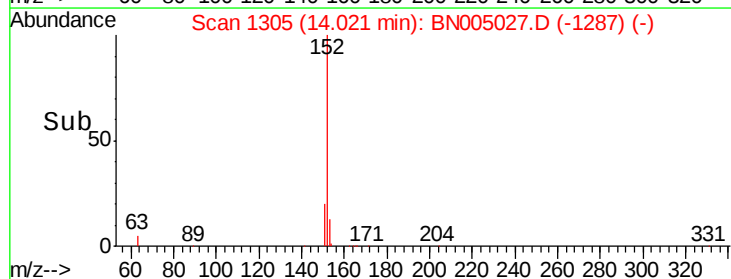
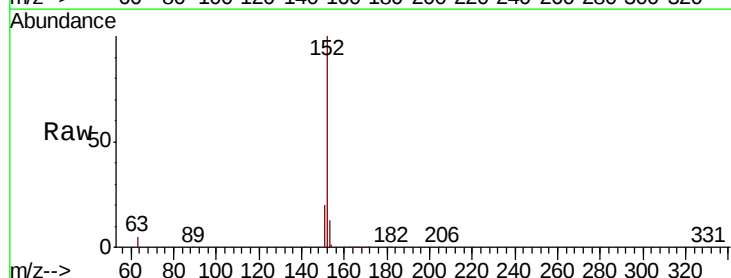
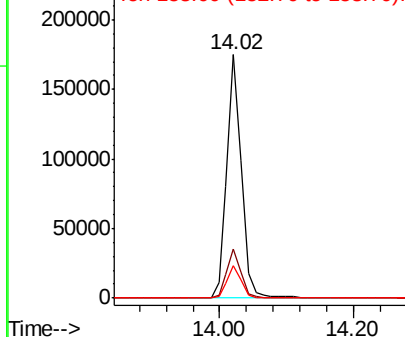
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.1	10.6	15.8

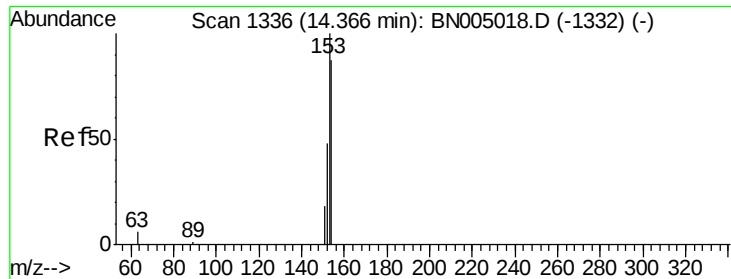
Abundance

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





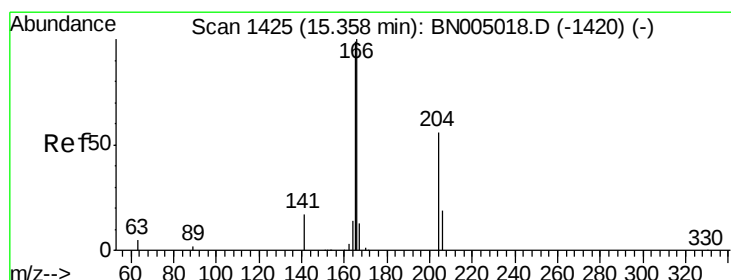
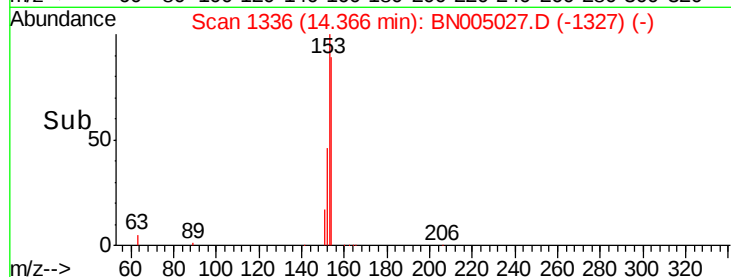
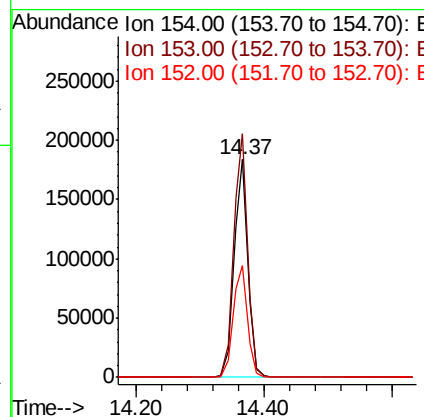
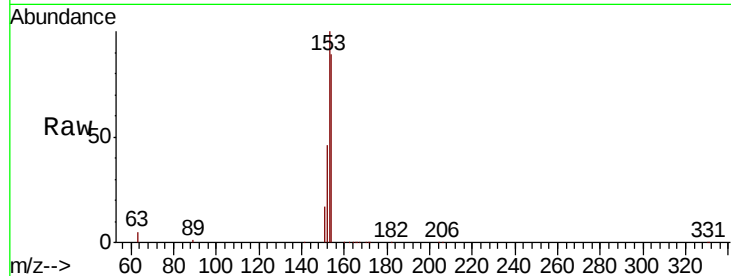
#17
Acenaphthene
Concen: 13.235 ng
RT: 14.37 min Scan# 1336
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampled :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.5	92.1	138.1
152	53.3	44.2	66.2

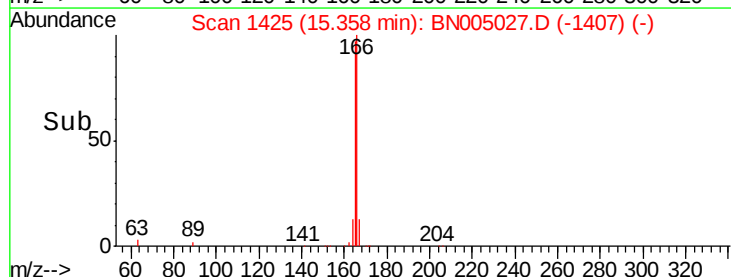
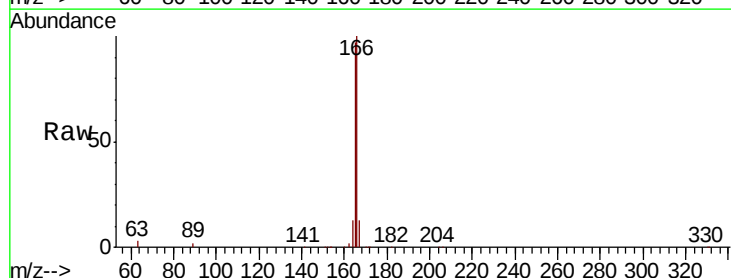
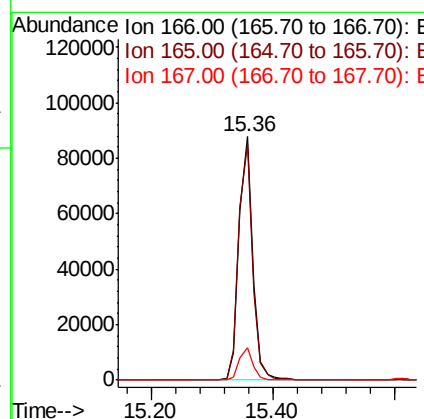
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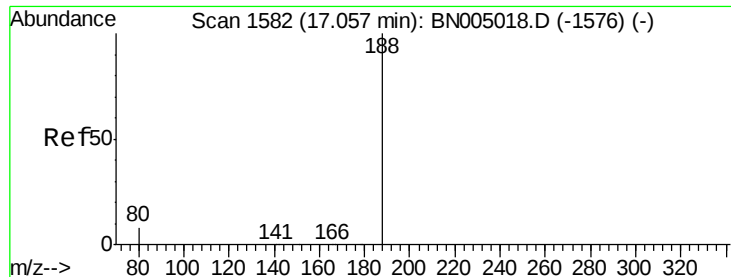
Sohil
4/8/2019 9:41:58 AM



#18
Fluorene
Concen: 4.947 ng
RT: 15.36 min Scan# 1425
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.7	118.1
167	13.2	10.9	16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.06 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

Instrument :

BNA_N

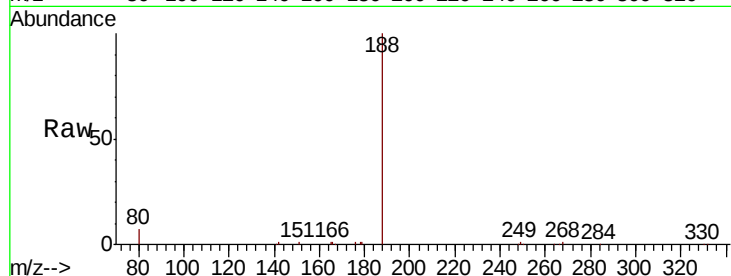
ClientSampled :

RR-PAH-WP

Tot Ion:	188	Resp:	16789
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.1	6.9	10.3

Manual Integrations
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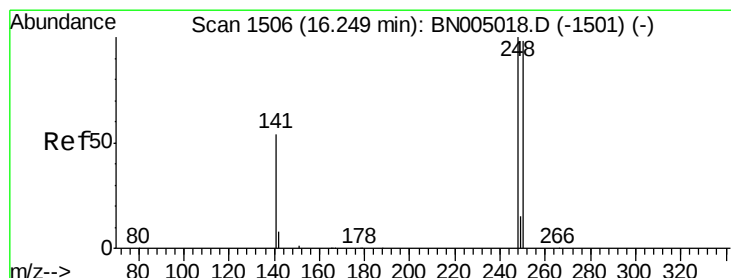
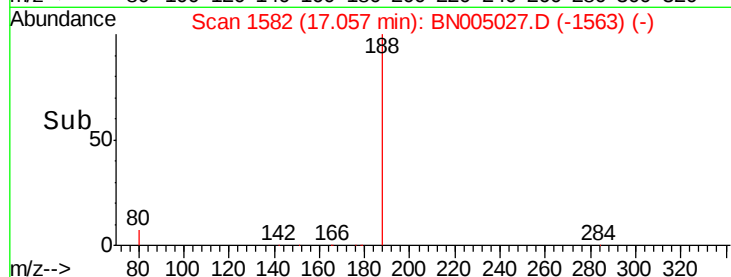
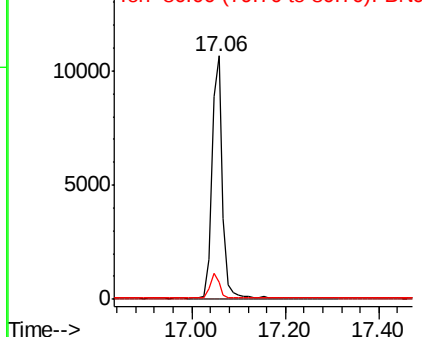
Sohil
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#20

4-Bromophenyl-phenylether

Concen: 0.001 ng

RT: 16.26 min Scan# 1507

Delta R.T. 0.01 min

Lab File: BN005027.D

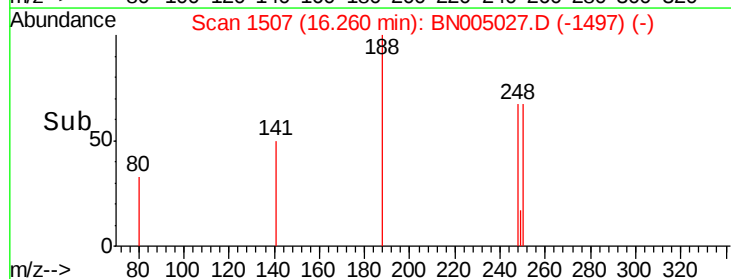
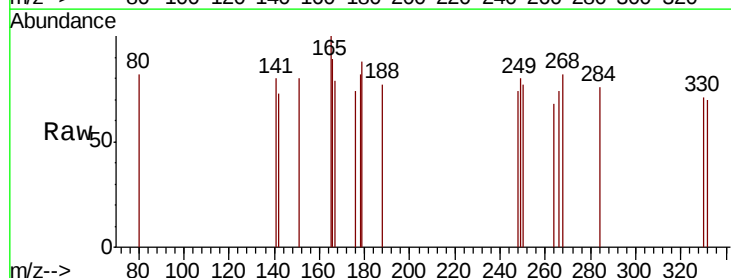
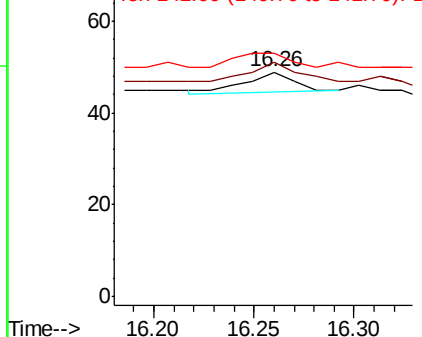
Acq: 29 Mar 2019 10:32

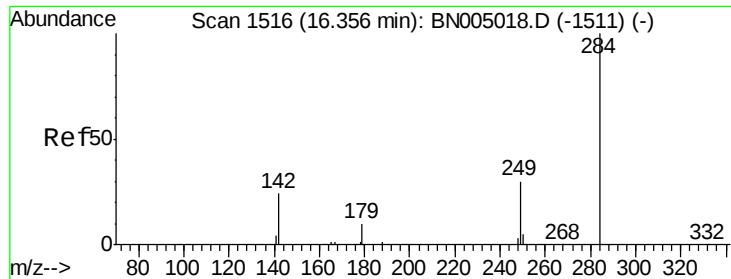
Tgt Ion:	248	Resp:	8
Ion Ratio	Lower	Upper	
248	100		
250	104.1	78.6	117.8
141	108.2	43.6	65.4#

Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.002 ng

RT: 16.36 min Scan# 1516

Delta R.T. 0.00 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

Instrument :

BNA_N

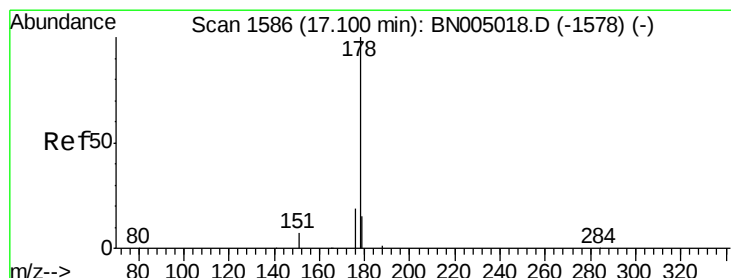
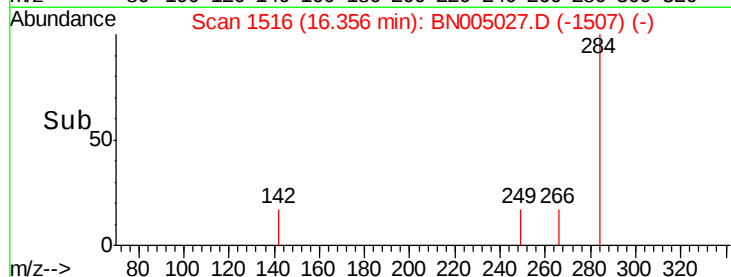
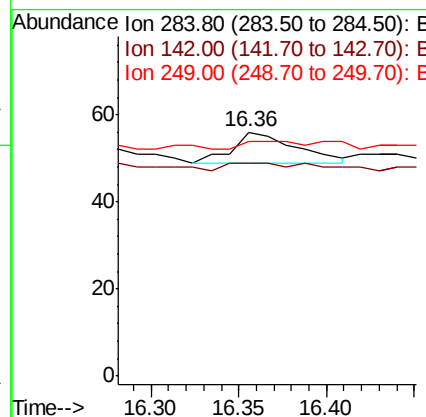
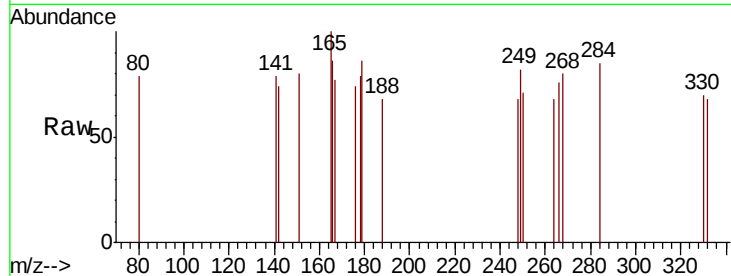
ClientSampled :

RR-PAH-WP

Tot Ion:	284	Resp:	17
Ion Ratio	Lower	Upper	
284	100		
142	47.1	24.9	37.3#
249	23.5	23.8	35.6#

Manual Integrations
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#23

Phenanthrene

Concen: 2.386 ng

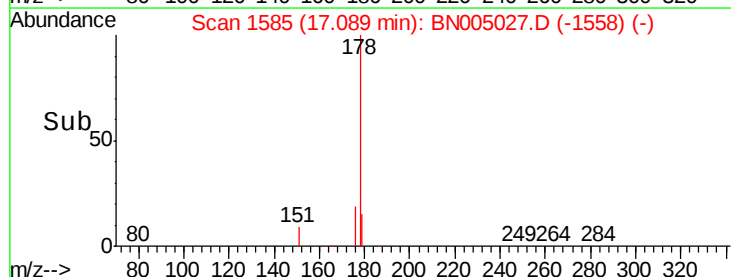
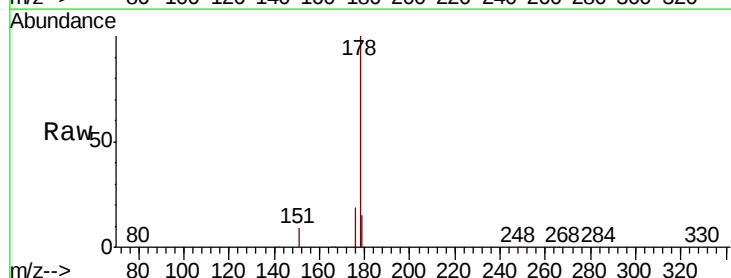
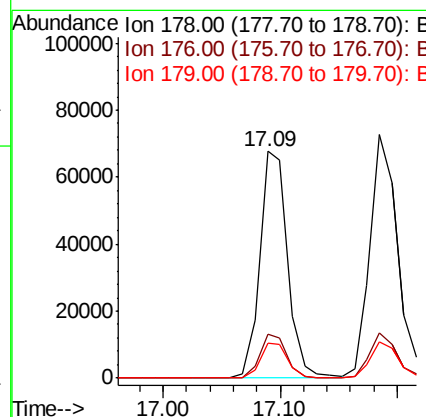
RT: 17.09 min Scan# 1585

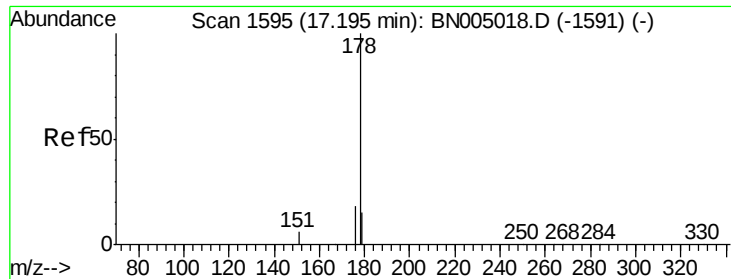
Delta R.T. -0.01 min

Lab File: BN005027.D

Acq: 29 Mar 2019 10:32

Tgt Ion:	178	Resp:	112119
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.1	22.7
179	15.3	12.2	18.2





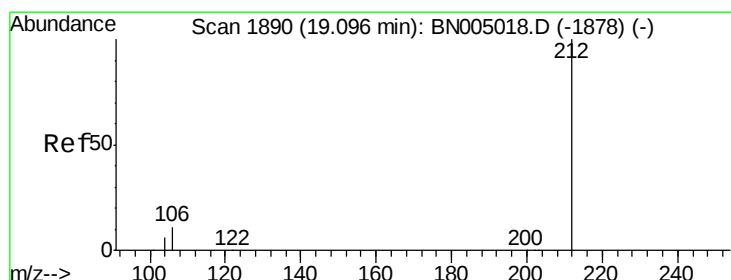
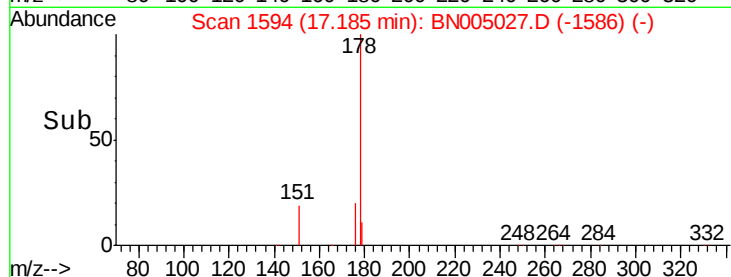
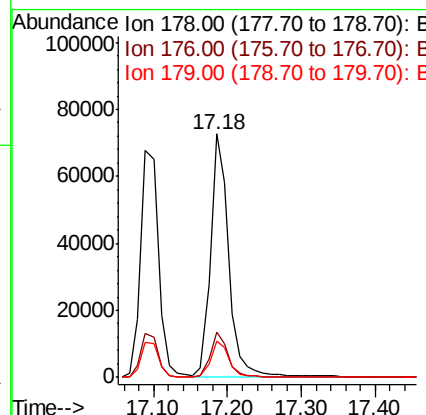
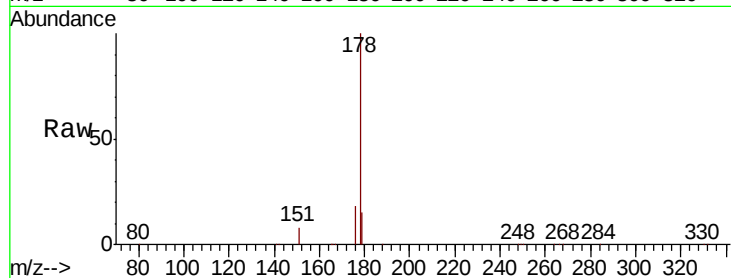
#24
 Anthracene
 Concen: 2.934 ng
 RT: 17.18 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.2	12.3	18.5

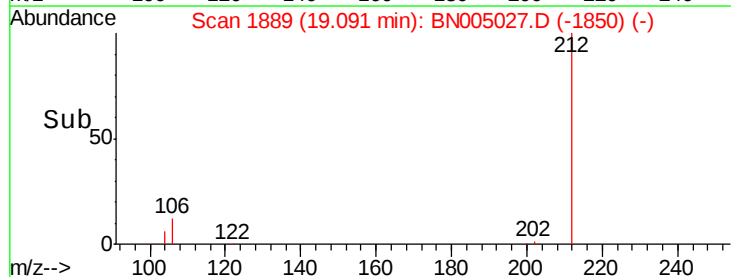
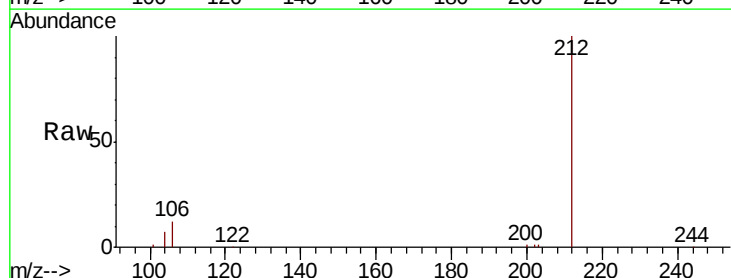
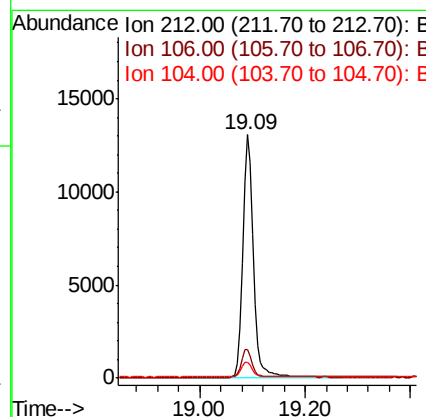
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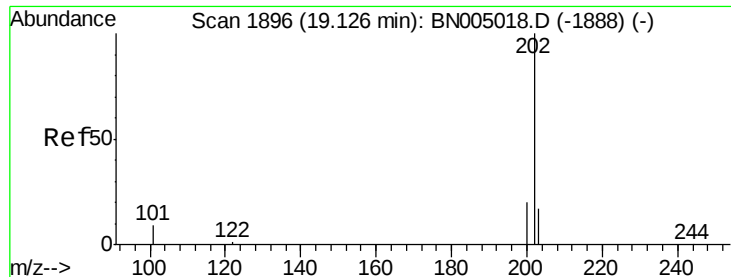
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#25
 Fluoranthene-d10
 Concen: 0.384 ng
 RT: 19.09 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.4	14.2
104	6.6	5.4	8.0





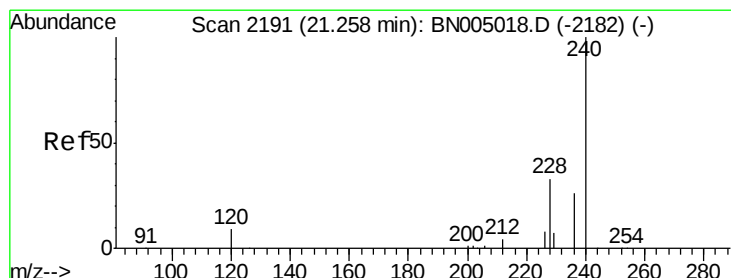
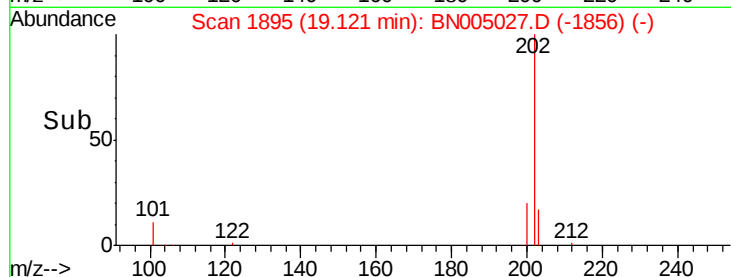
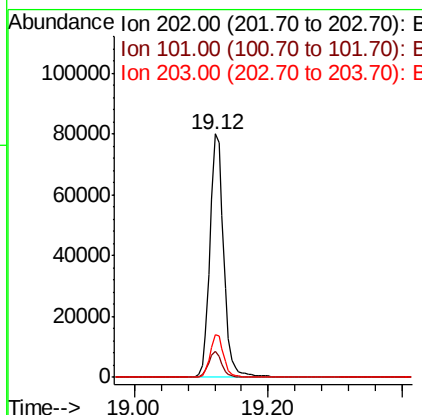
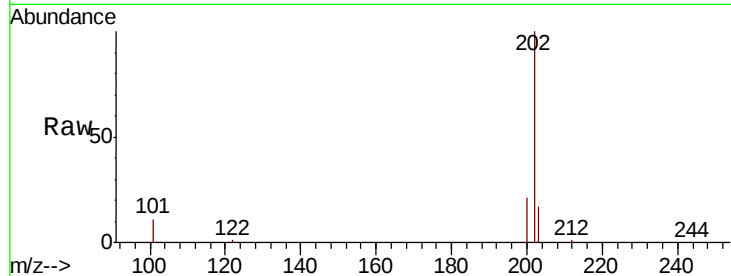
#26
 Fluoranthene
 Concen: 1.981 ng
 RT: 19.12 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Instrument :
 BNA_N
 ClientSampled :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.2	8.2	12.2
203	17.4	13.8	20.8

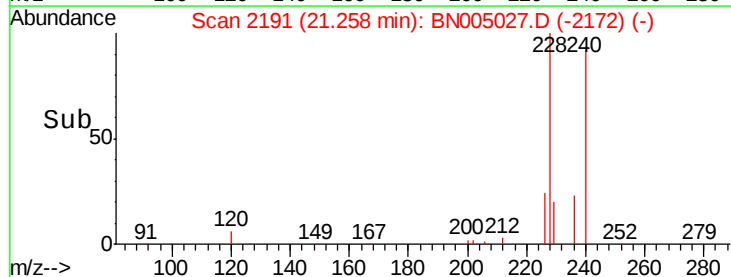
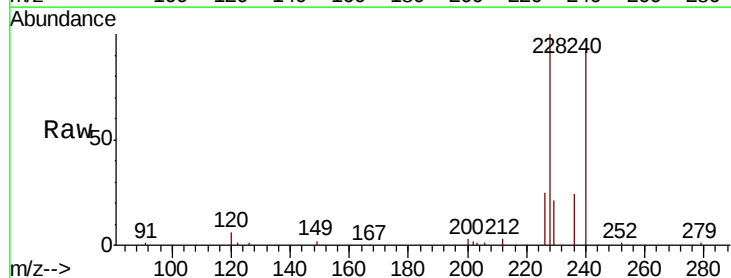
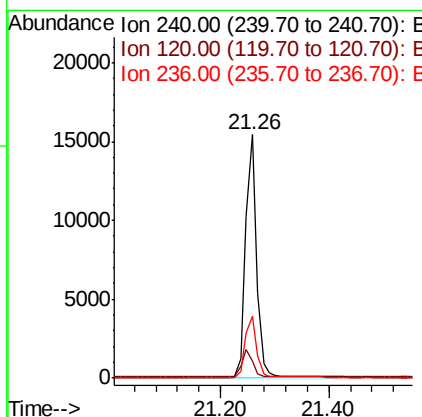
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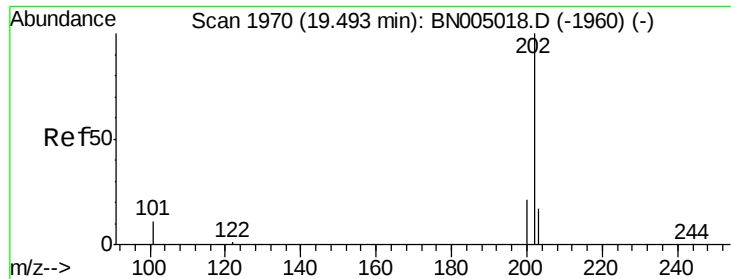
Sohil
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2191
 Delta R.T. 0.00 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.8	7.4	11.0#
236	25.5	21.0	31.6





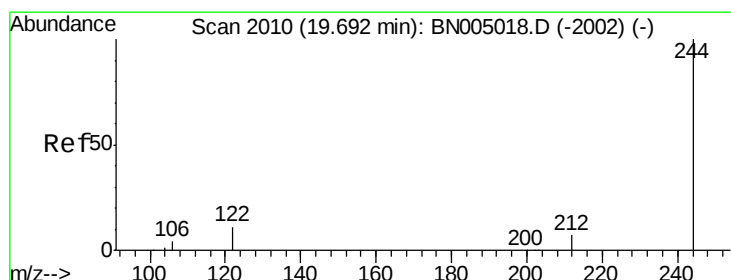
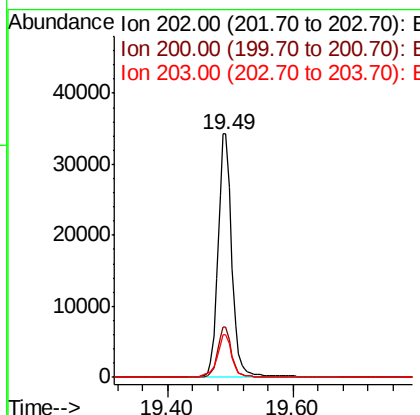
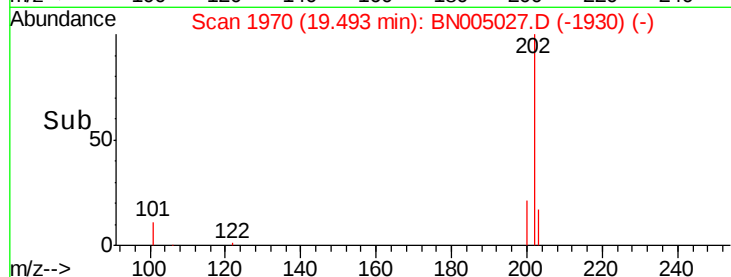
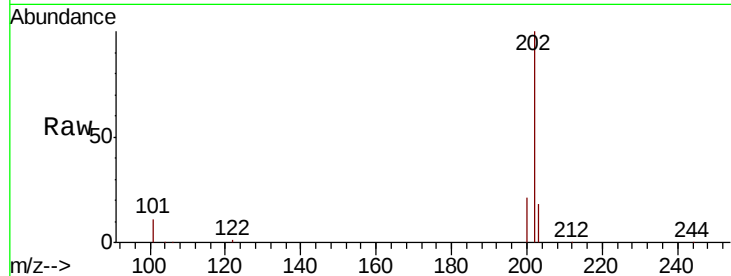
#28
Pvrene
Concen: 0.854 ng
RT: 19.49 min Scan# 1970
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.5	24.7
203	18.7	13.9	20.9

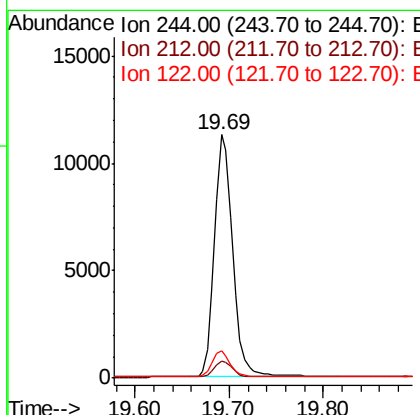
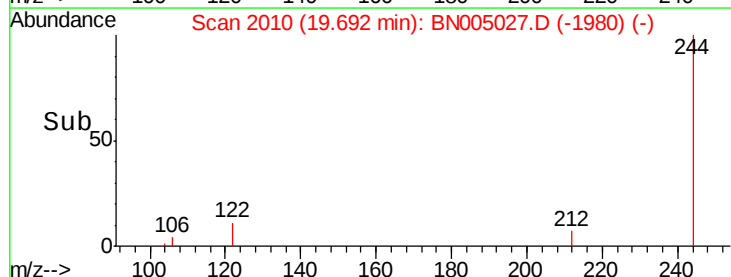
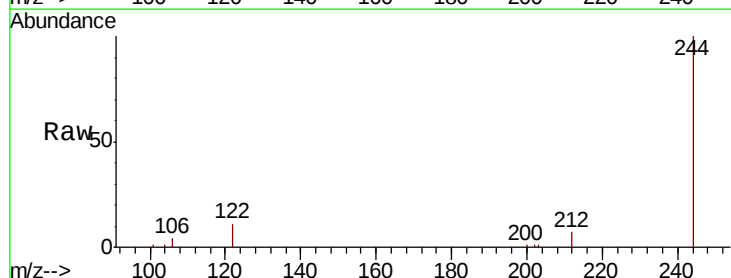
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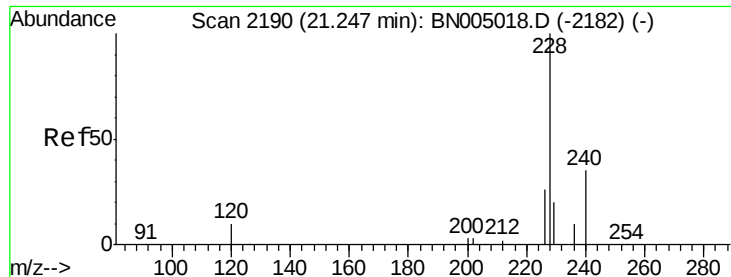
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#29
Terphenyl-d14
Concen: 0.346 ng
RT: 19.69 min Scan# 2010
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.9	8.9
122	11.2	9.0	13.4





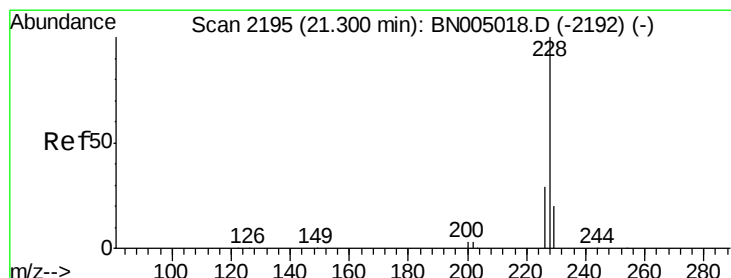
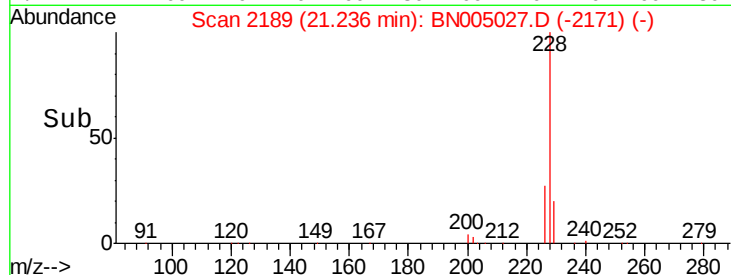
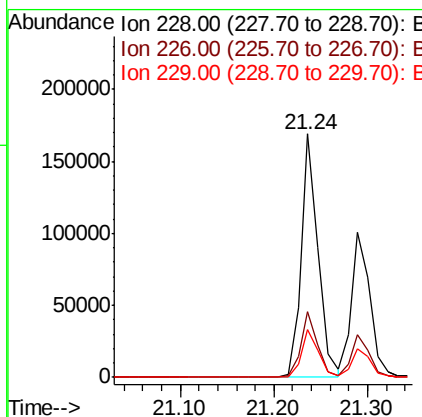
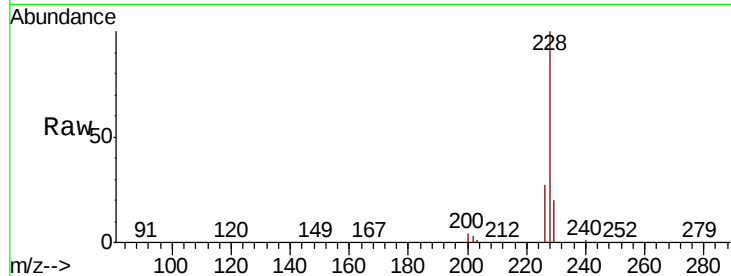
#30
Benzo(a)anthracene
Concen: 3.470 ng
RT: 21.24 min Scan# 2189
Delta R.T. -0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampled :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	20.9	31.3
229	19.6	16.2	24.2

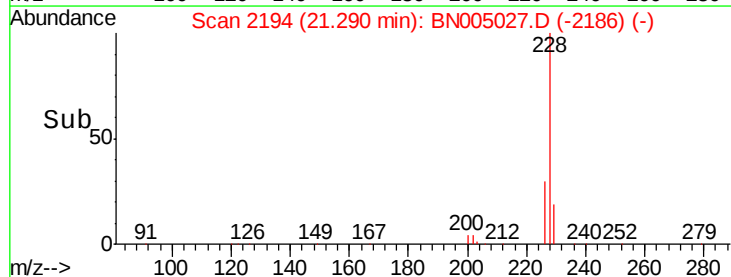
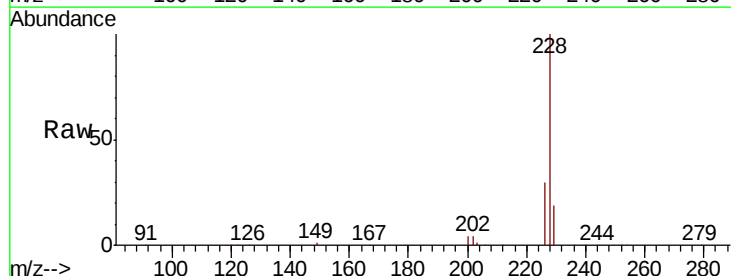
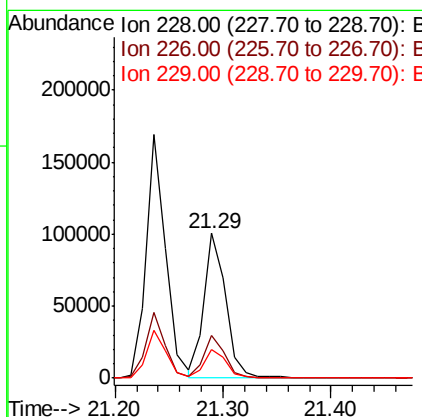
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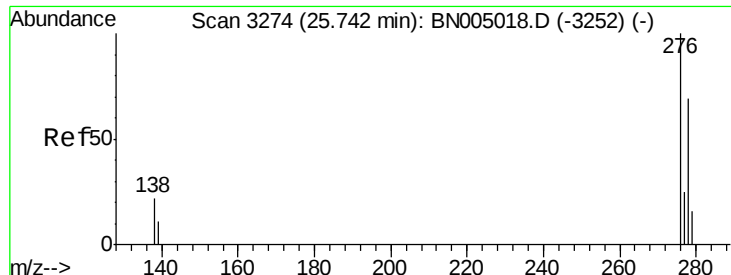
Sohil
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#31
Chrysene
Concen: 2.119 ng
RT: 21.29 min Scan# 2194
Delta R.T. -0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.8	34.2
229	19.3	16.2	24.4





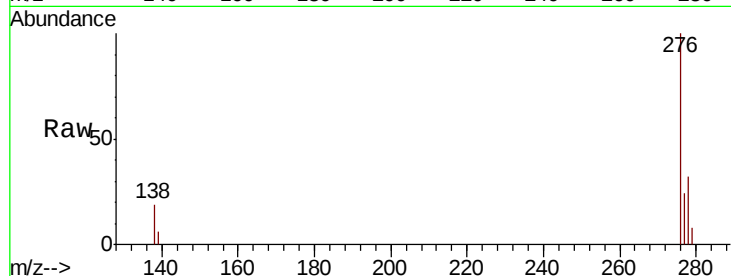
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 2.656 ng
 RT: 25.73 min Scan# 3271
 Delta R.T. -0.01 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.1	18.2	27.2
277	24.6	20.3	30.5

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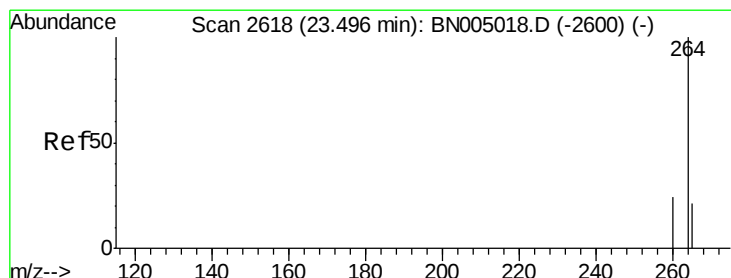
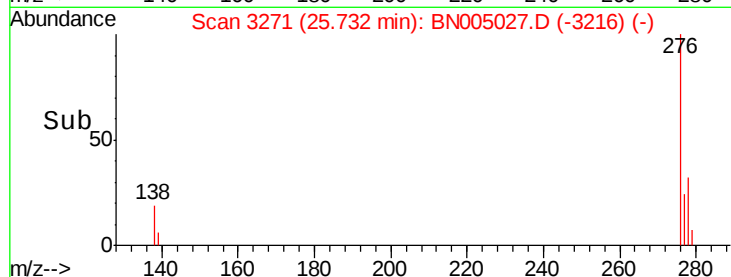
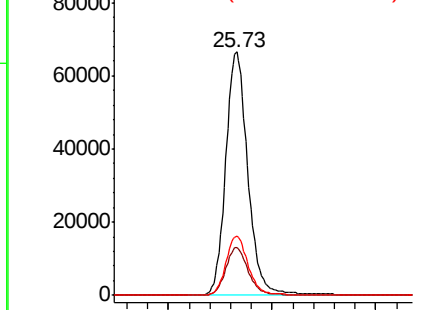


Abundance

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: 23.50 min Scan# 2618
 Delta R.T. 0.00 min
 Lab File: BN005027.D
 Acq: 29 Mar 2019 10:32

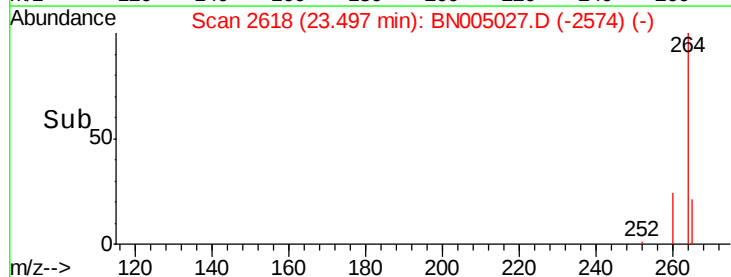
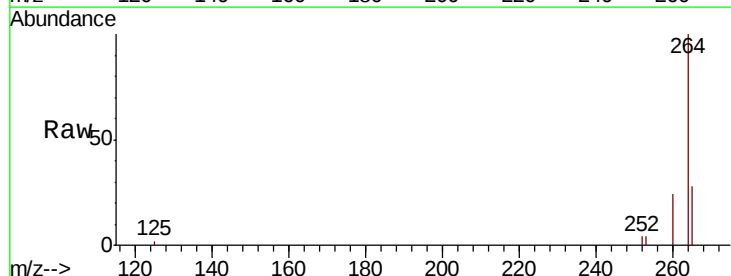
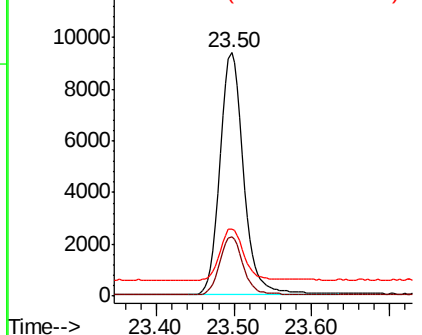
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.0
265	27.7	22.5	33.7

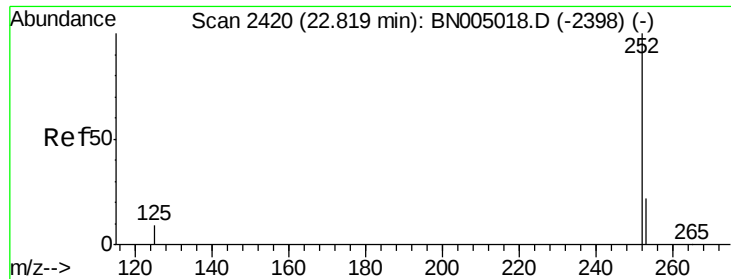
Abundance

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





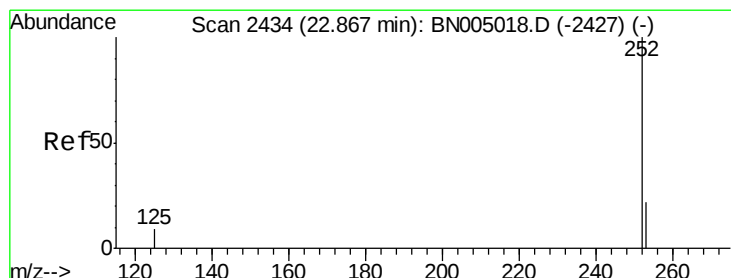
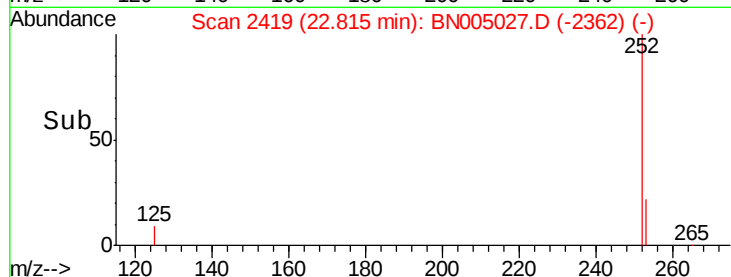
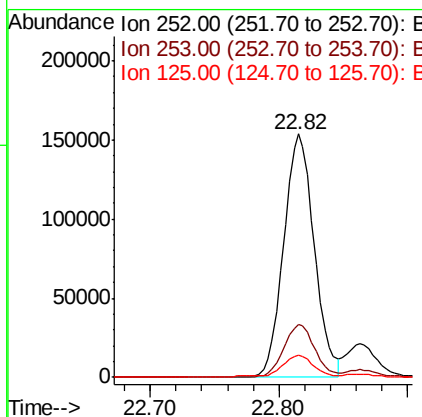
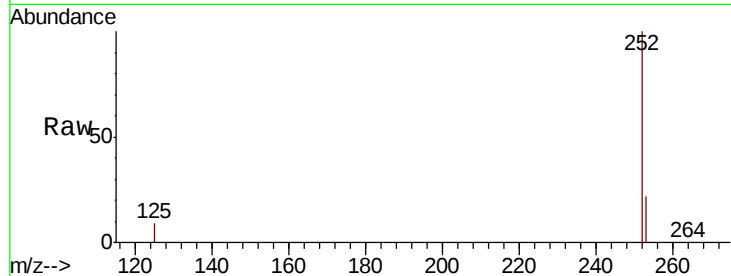
#35
Benzo(b)fluoranthene
Concen: 4.046 ng
RT: 22.82 min Scan# 2419
Delta R.T. -0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.2	28.8
125	9.2	8.2	12.2

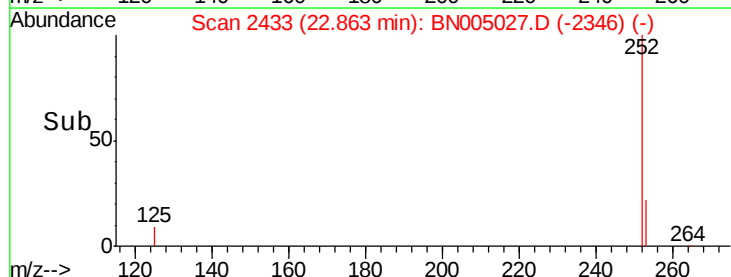
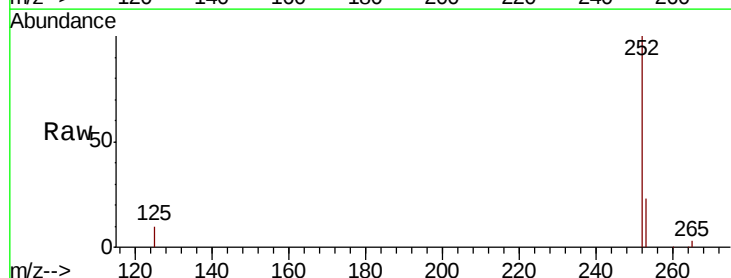
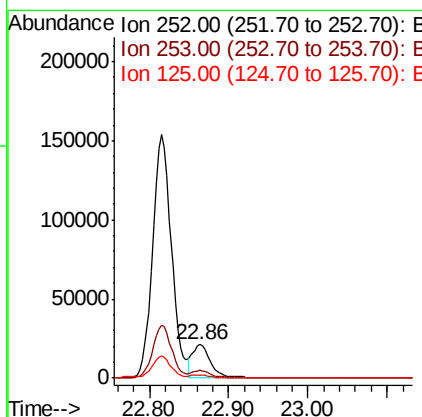
Manual Integrations
APPROVED

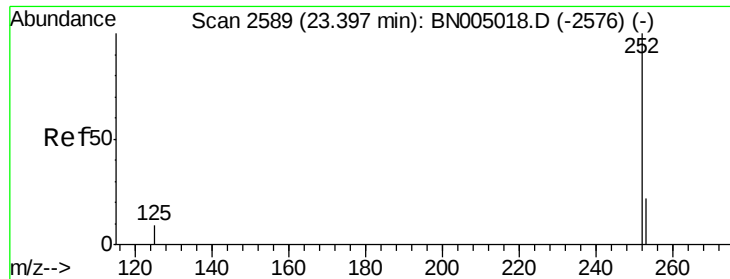
Sohil
4/8/2019 9:41:58 AM



#36
Benzo(k)fluoranthene
Concen: 0.556 ng
RT: 22.86 min Scan# 2433
Delta R.T. -0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.3	28.9
125	9.7	8.2	12.2





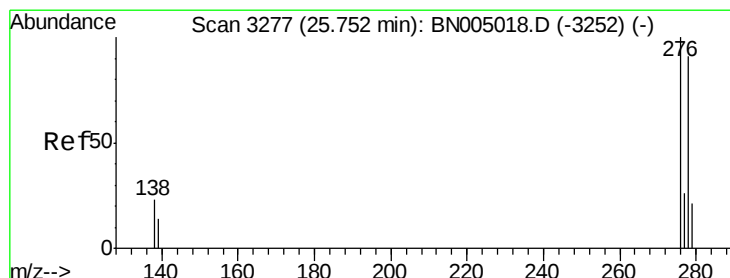
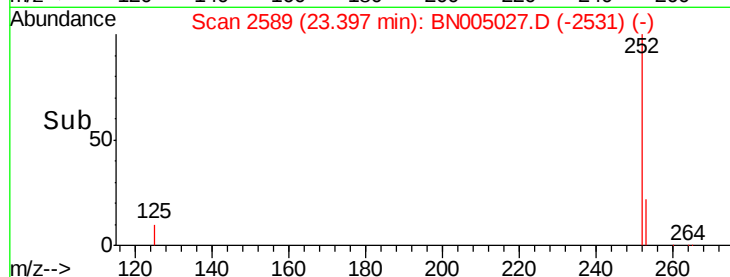
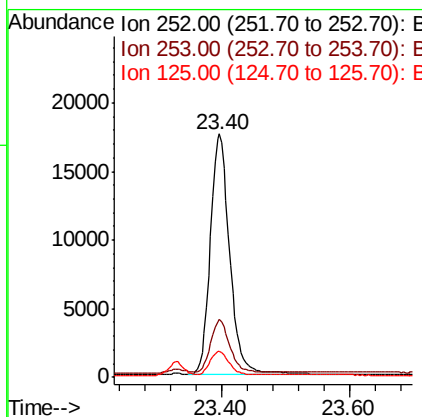
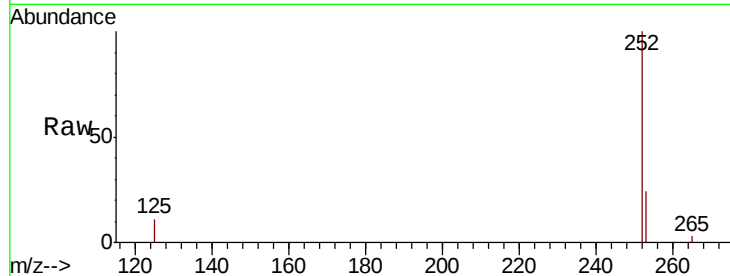
#37
Benzo(a)pyrene
Concen: 0.659 ng
RT: 23.40 min Scan# 2589
Delta R.T. 0.00 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	20.2	30.2
125	10.9	9.2	13.8

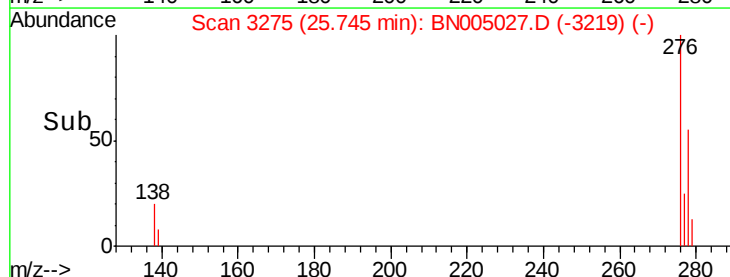
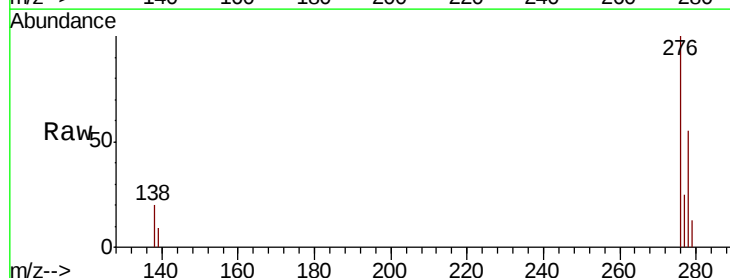
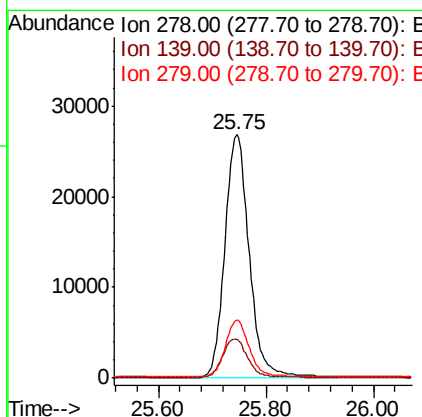
Manual Integrations
APPROVED

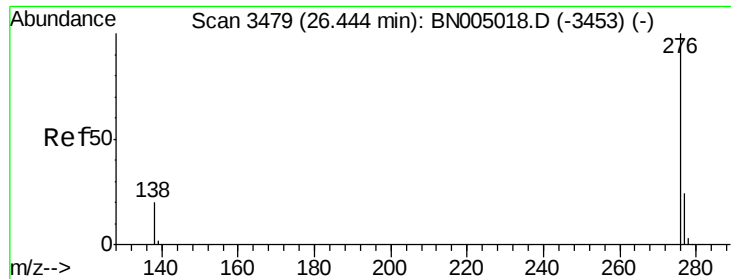
Sohil
4/8/2019 9:41:58 AM



#38
Dibenzo(a,h)anthracene
Concen: 1.510 ng
RT: 25.75 min Scan# 3275
Delta R.T. -0.01 min
Lab File: BN005027.D
Acq: 29 Mar 2019 10:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.1	19.7
279	23.6	20.2	30.2





#39

Benzo(a,h,i)perylene

Concen: 1.135 ng

RT: 26.43 min Scan# 3475

Delta R.T. -0.01 min

Lab File: BN005027.D

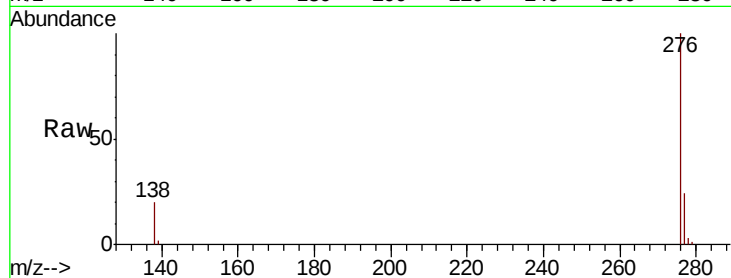
Acq: 29 Mar 2019 10:32

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP



Tot Ion:	276	Resp:	63679
Ion Ratio	Lower	Upper	
276	100		
277	23.8	19.8	29.6
138	19.7	16.4	24.6

Manual Integrations
APPROVED

Sohil
4/8/2019 9:41:58 AM

