

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN090819\
 Data File : BN007568.D
 Acq On : 09 Sep 2019 01:49
 Operator : HP/JU
 Sample : K4762-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 STOCK-PILE

Manual Integrations
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mohammad
 9/16/2019 8:53:24 AM

Quant Time: Sep 09 13:30:31 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 29 12:18:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	7086	0.40	ng	-0.02
7) Naphthalene-d8	10.14	136	38319	0.40	ng	-0.03
13) Acenaphthene-d10	14.03	164	33946	0.40	ng	-0.02
19) Phenanthrene-d10	16.78	188	31413	0.40	ng	-0.02
27) Chrysene-d12	21.00	240	30396	0.40	ng	-0.01
34) Perylene-d12	23.11	264	35670	0.40	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.02	112	8147	0.33	ng	-0.02
5) Phenol-d6	6.58	99	10808	0.34	ng	0.00
8) Nitrobenzene-d5	8.52	82	12938	0.39	ng	-0.01
11) 2-Methylnaphthalene-d10	11.75	152	23159	0.36	ng	-0.01
14) 2,4,6-Tribromophenol	15.54	330	2629	0.15	ng	-0.02
15) 2-Fluorobiphenyl	12.65	172	16820	0.12	ng	0.00
25) Fluoranthene-d10	18.83	212	31958	0.32	ng	-0.02
29) Terphenyl-d14	19.45	244	18838	0.24	ng	-0.02

Target Compounds				Qvalue		
9) Naphthalene	10.19	128	14548	0.133	ng	# 85
12) 2-Methylnaphthalene	11.82	142	9866	0.132	ng	# 24
16) Acenaphthylene	13.78	152	124525	0.620	ng	# 58
17) Acenaphthene	14.10	154	29109	0.248	ng	# 86
18) Fluorene	15.09	166	36876	0.248	ng	# 67
23) Phenanthrene	16.83	178	430804	4.559	ng	# 94
24) Anthracene	16.92	178	115005	1.210	ng	# 93
26) Fluoranthene	18.86	202	956104	7.881	ng	# 98
28) Pyrene	19.23	202	1122296	9.179	ng	# 97
30) Benzo(a)anthracene	20.99	228	545157	4.567	ng	# 87
31) Chrysene	21.04	228	524673	4.554	ng	# 90
32) Bis(2-ethylhexyl)phthalate	20.95	149	72238	0.916	ng	# 97
33) Indeno(1,2,3-cd)pyrene	25.18	276	335549	2.417	ng	# 99
35) Benzo(b)fluoranthene	22.49	252	701718	5.430	ng	# 90
36) Benzo(k)fluoranthene	22.53	252	223534m	1.750	ng	# 92
37) Benzo(a)pyrene	23.02	252	580426	4.719	ng	# 92
38) Dibenzo(a,h)anthracene	25.18	278	103978	0.847	ng	# 30
39) Benzo(a,h,i)perylene	25.81	276	425616	3.481	ng	# 90

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

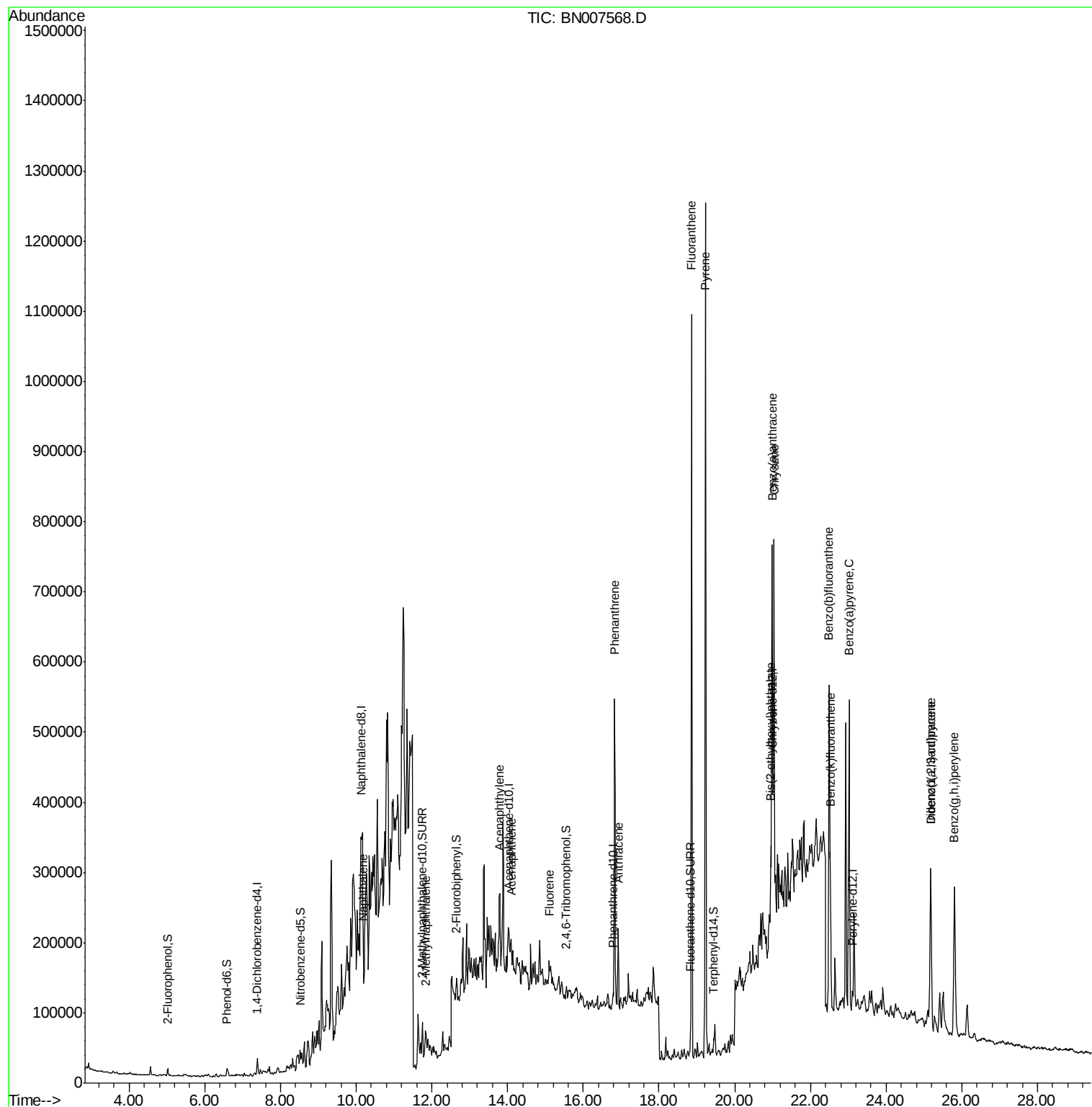
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN090819\
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#1

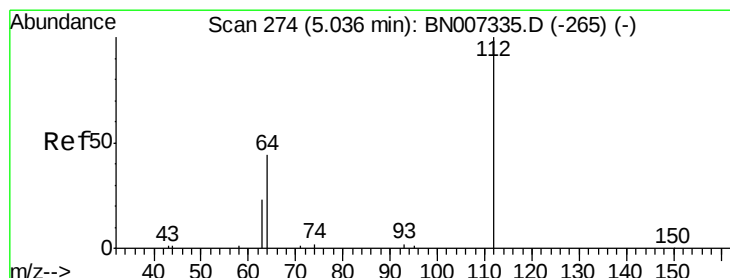
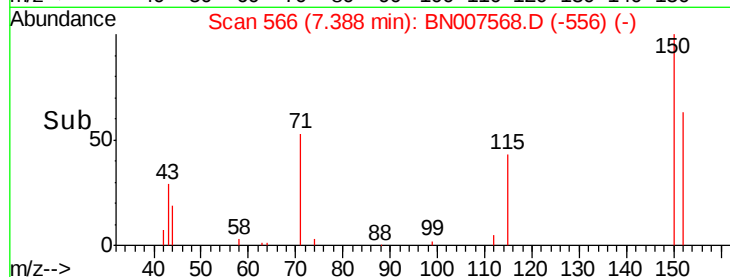
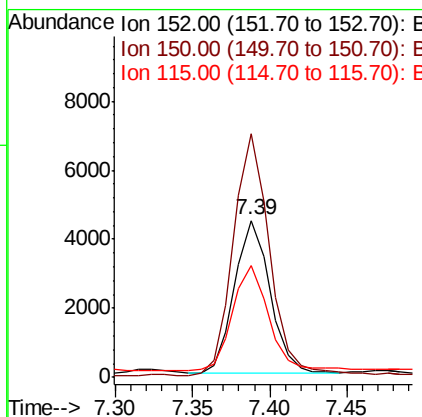
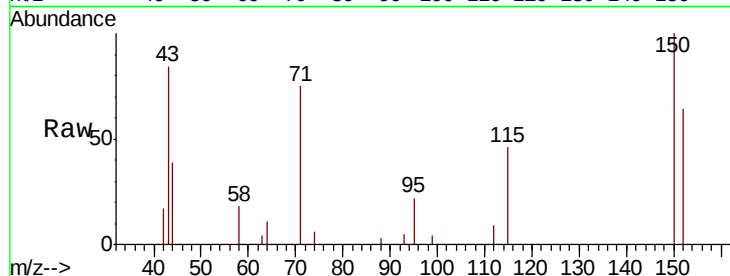
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.39 min Scan# 566
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	109.1	163.7
115	71.4	59.6	89.4

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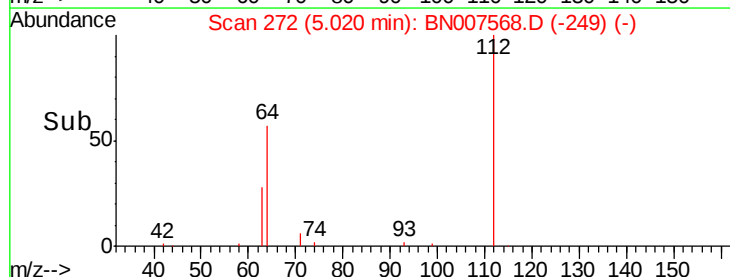
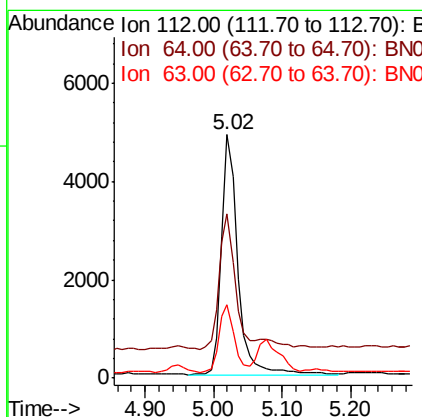
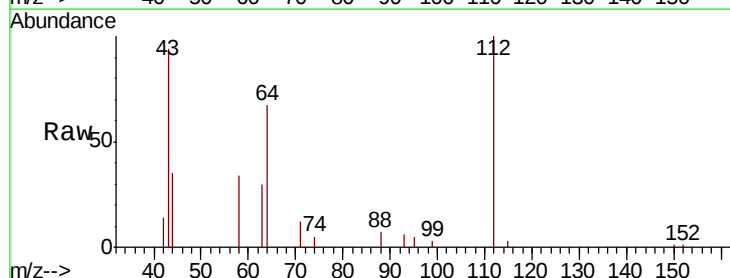
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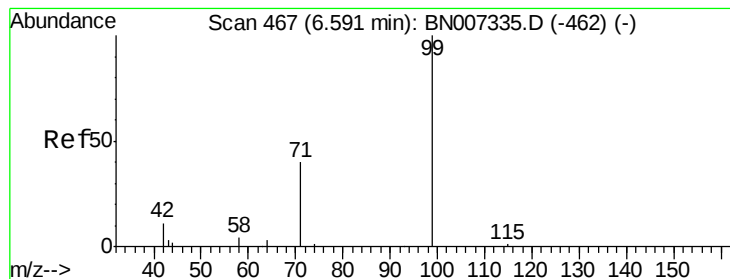


#4

2-Fluorophenol
Concen: 0.326 ng
RT: 5.02 min Scan# 272
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	42.3	63.5
63	26.1	23.6	35.4





#5

Phenol-d6

Concen: 0.341 ng

RT: 6.58 min Scan# 466

Delta R.T. -0.01 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Instrument :

BNA_N

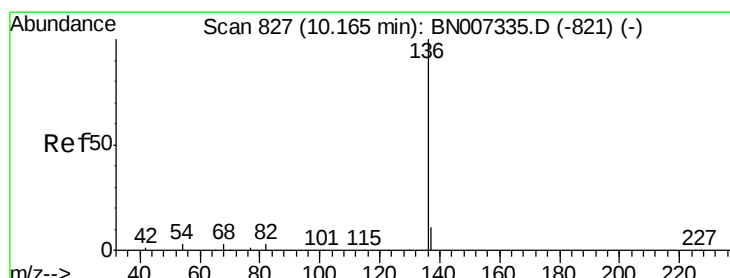
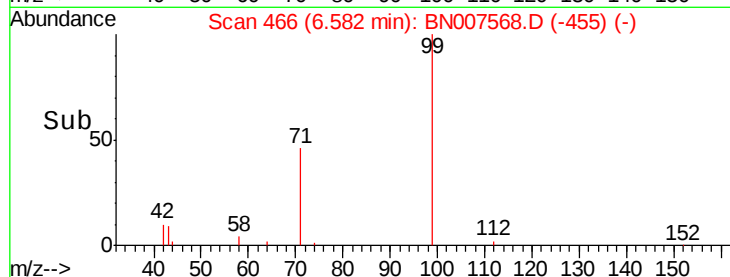
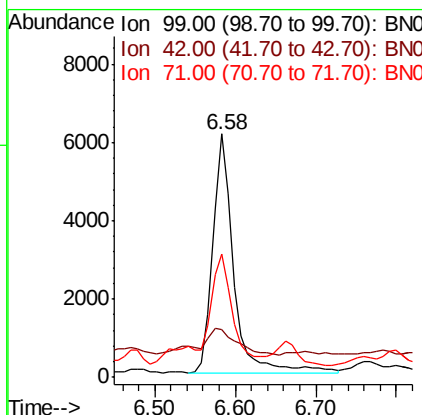
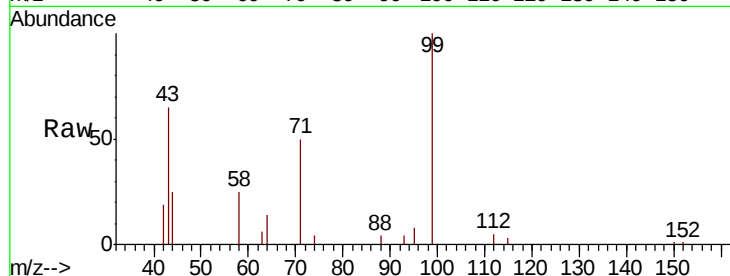
ClientSampleId :

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Tot Ion:	99	Resp:	10808
Ion Ratio	Lower	Upper	
99	100		
42	19.3	11.2	16.8#
71	57.8	31.8	47.8#

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#7

Naphthalene-d8

Concen: 0.400 ng

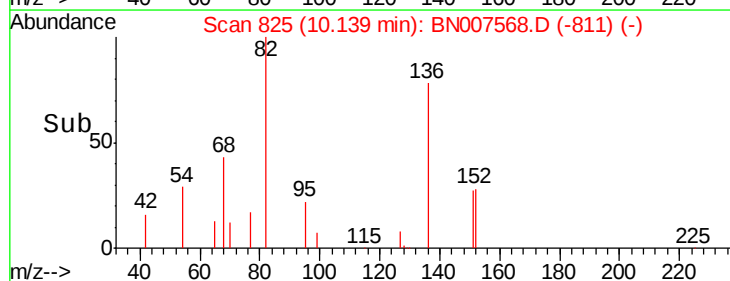
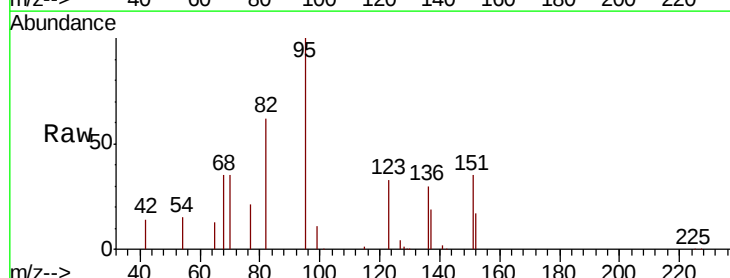
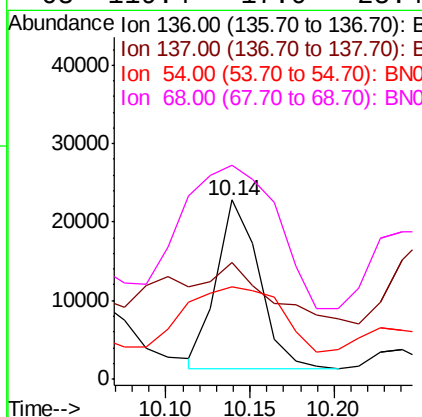
RT: 10.14 min Scan# 825

Delta R.T. -0.03 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Tgt Ion:	136	Resp:	38319
Ion Ratio	Lower	Upper	
136	100		
137	64.8	12.9	19.3#
54	51.7	8.6	12.8#
68	119.4	17.0	25.4#





#8

Nitrobenzene-d5

Concen: 0.388 ng

RT: 8.52 min Scan# 697

Delta R.T. -0.01 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Instrument :

BNA_N

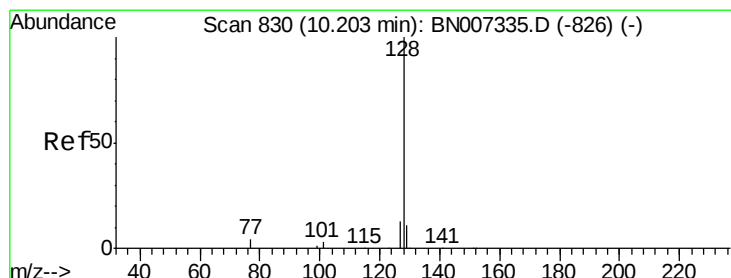
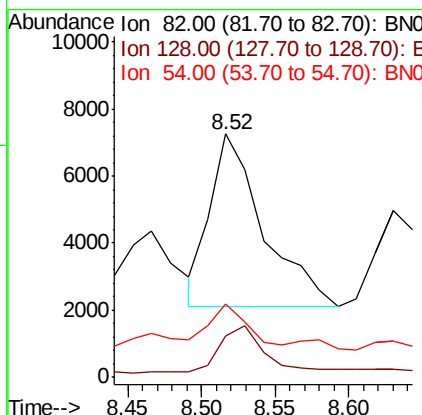
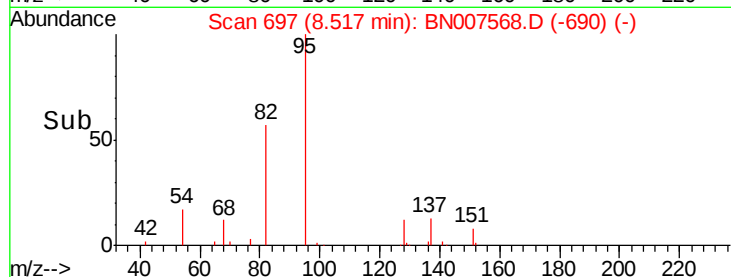
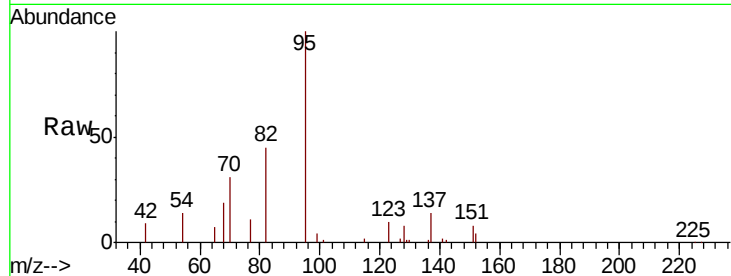
ClientSampleId :

STOCK-PILE

Tot Ion:	82	Resp:	12938
Ion Ratio	Lower	Upper	
82	100		
128	16.8	19.7	29.5#
54	30.3	25.8	38.6

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#9

Naphthalene

Concen: 0.133 ng

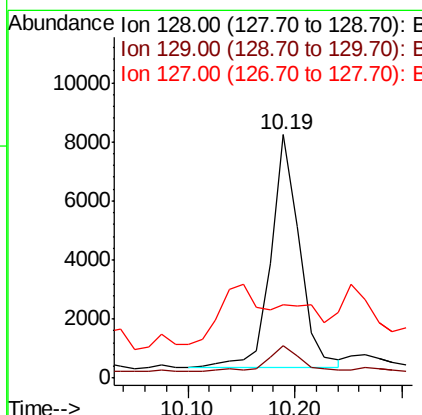
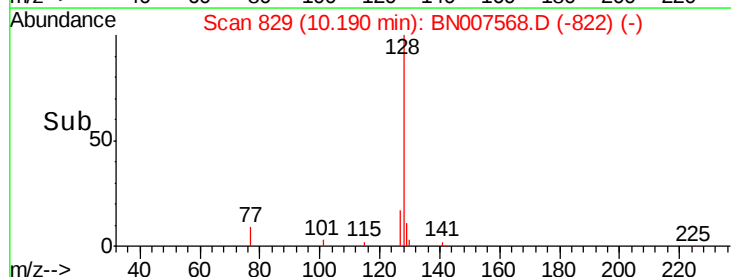
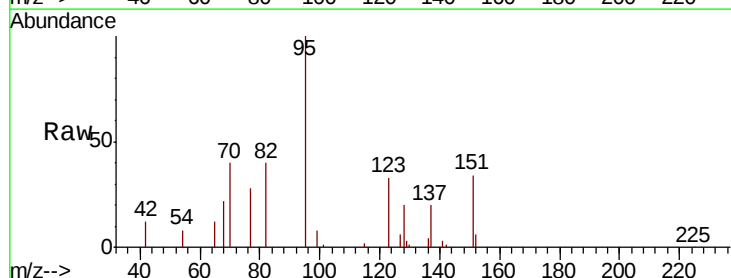
RT: 10.19 min Scan# 829

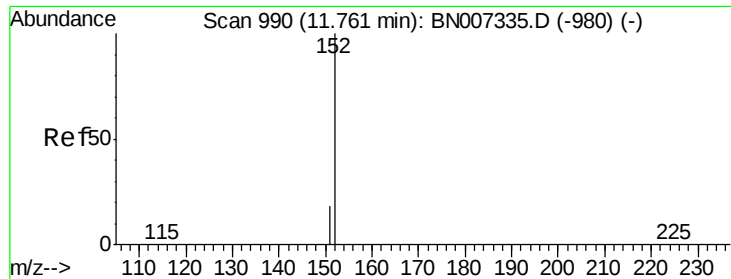
Delta R.T. -0.01 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Tgt Ion:	128	Resp:	14548
Ion Ratio	Lower	Upper	
128	100		
129	13.3	11.1	16.7
127	30.3	15.5	23.3#





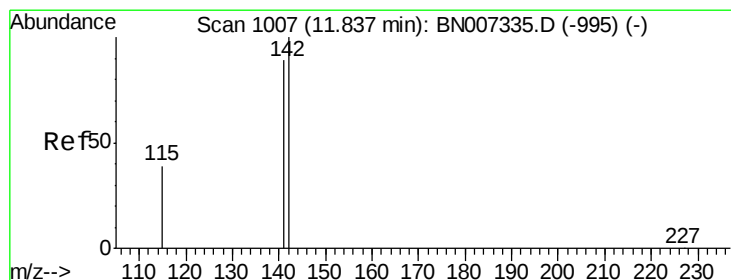
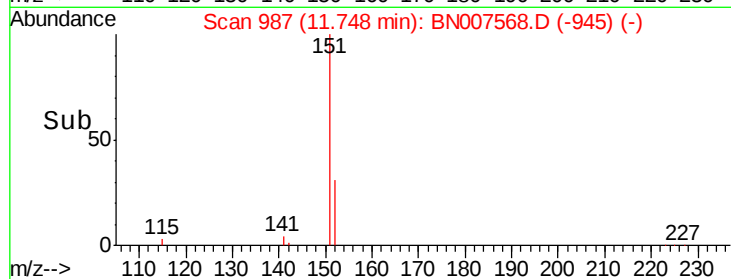
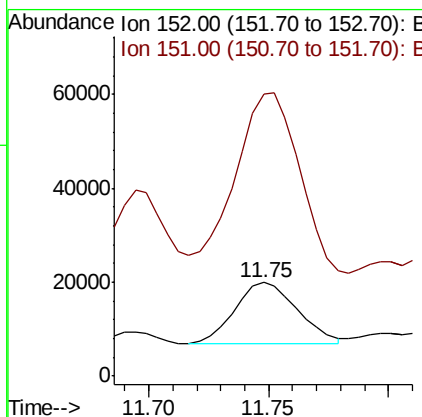
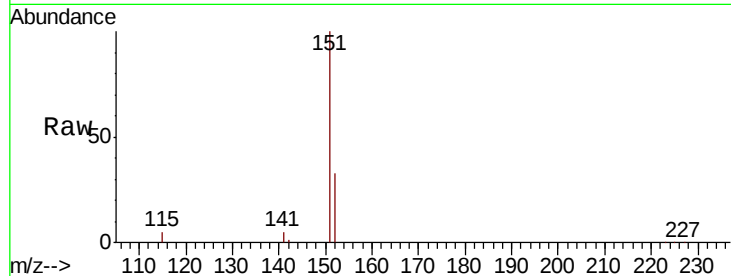
#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.75 min Scan# 987
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion:152 Resp: 23159
Ion Ratio Lower Upper
152 100
151 338.8 16.2 24.2#

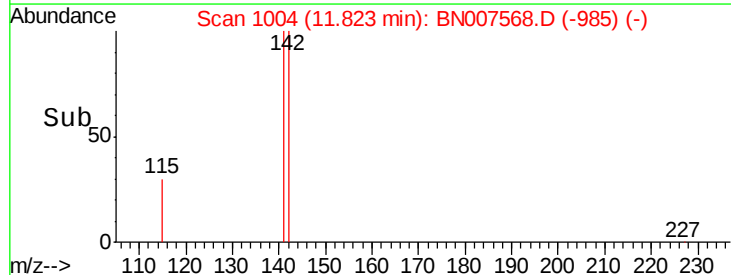
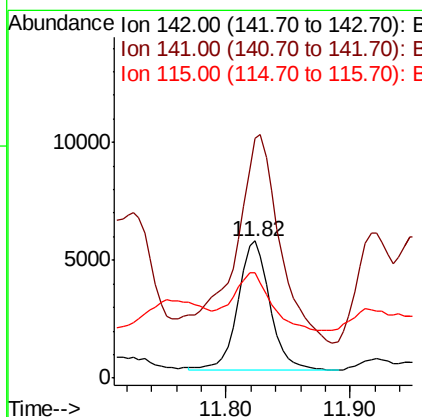
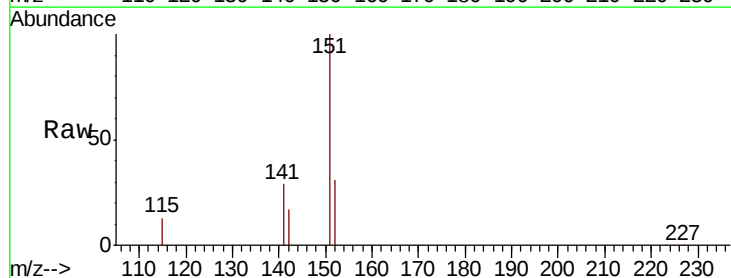
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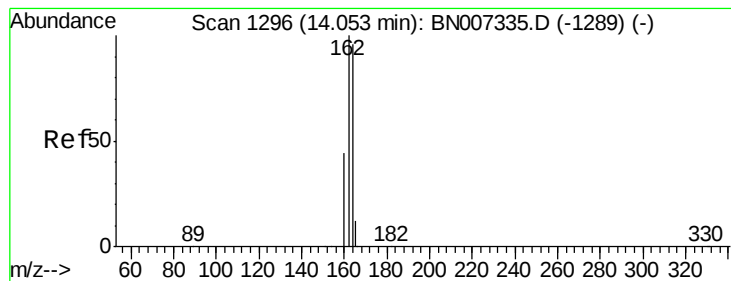
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#12
2-Methylnaphthalene
Concen: 0.132 ng
RT: 11.82 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion:142 Resp: 9866
Ion Ratio Lower Upper
142 100
141 175.3 72.8 109.2#
115 76.7 35.2 52.8#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.03 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Instrument :

BNA_N

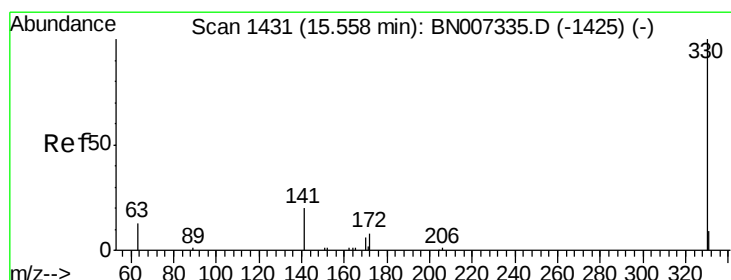
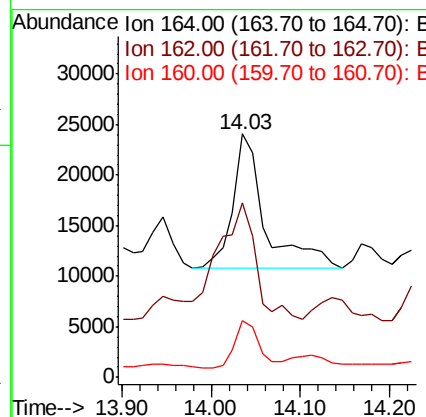
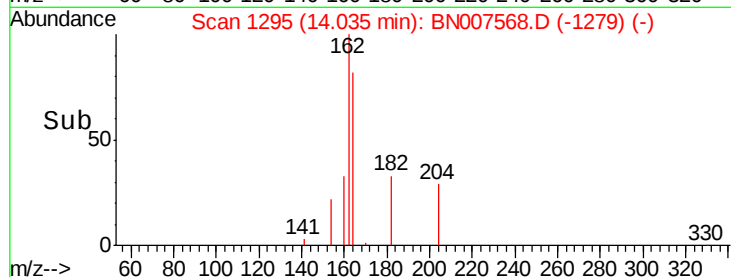
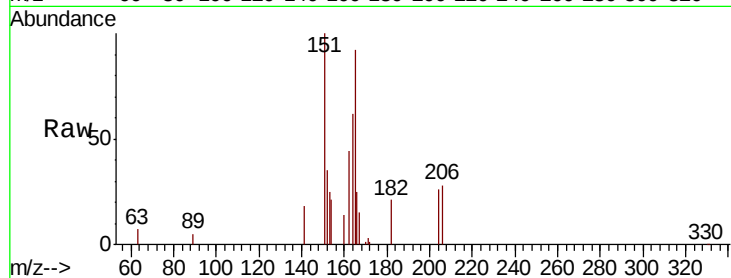
ClientSampled :

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Tot Ion	Ratio	Lower	Upper
164	100		
162	71.5	83.5	125.3#
160	23.5	38.2	57.4#

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#14

2,4,6-Tribromophenol

Concen: 0.148 ng

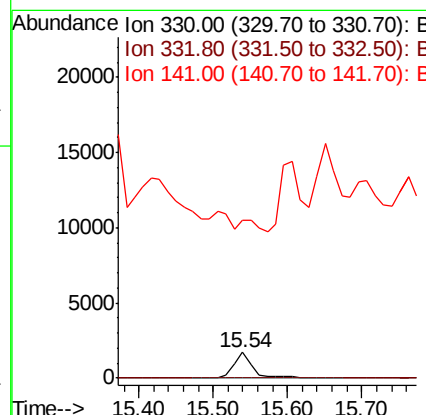
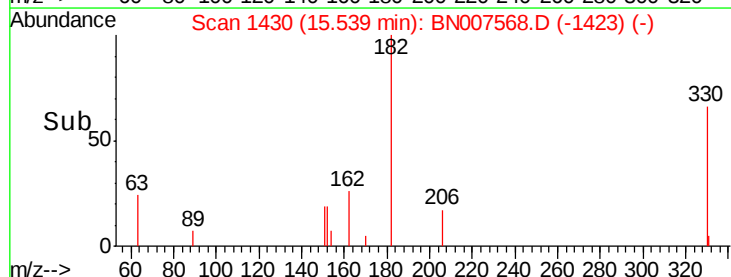
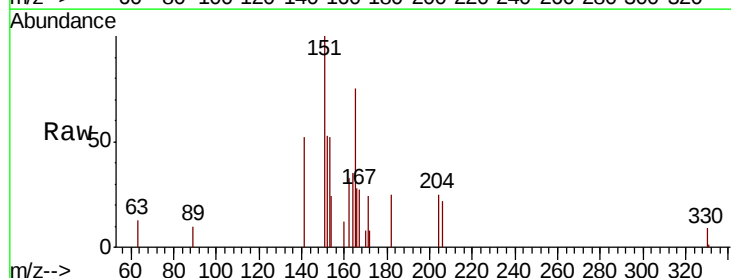
RT: 15.54 min Scan# 1430

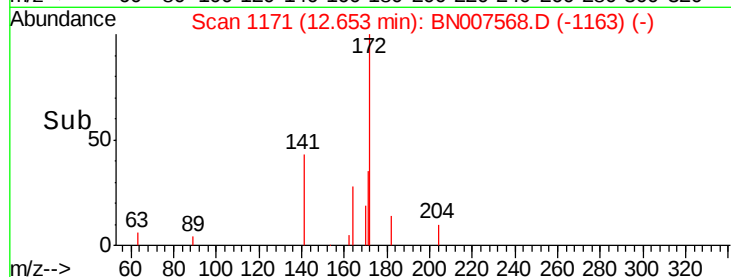
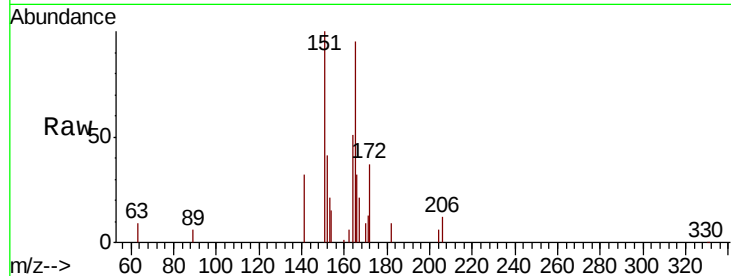
Delta R.T. -0.02 min

Lab File: BN007568.D

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Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	0.0	26.9	40.3#





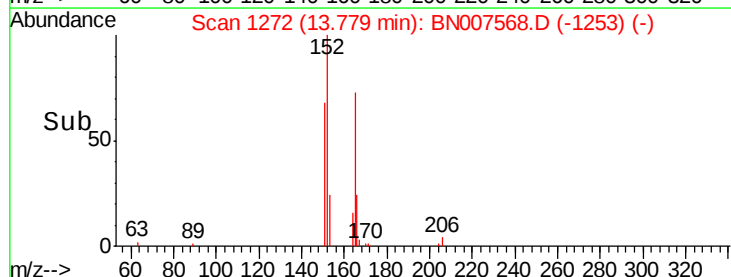
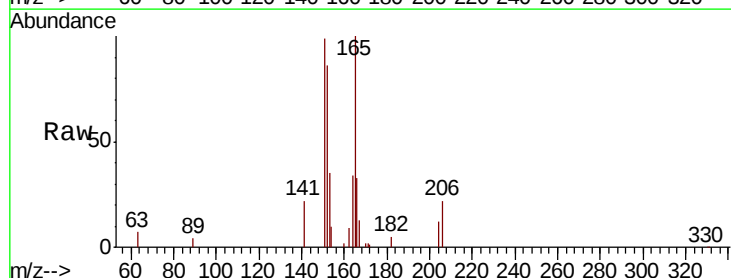
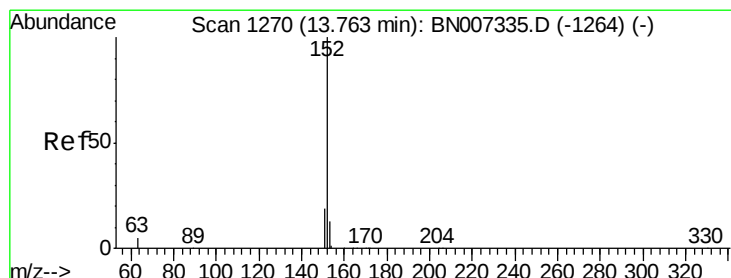
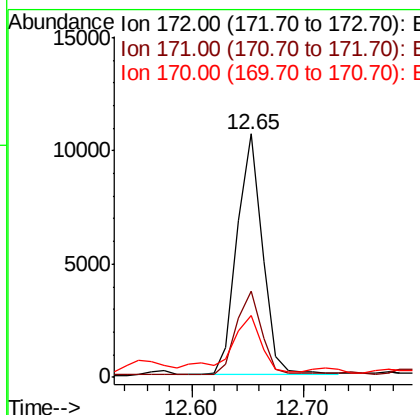
#15
2-Fluorobiphenyl
Concen: 0.123 ng
RT: 12.65 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.3	45.5
170	25.2	20.7	31.1

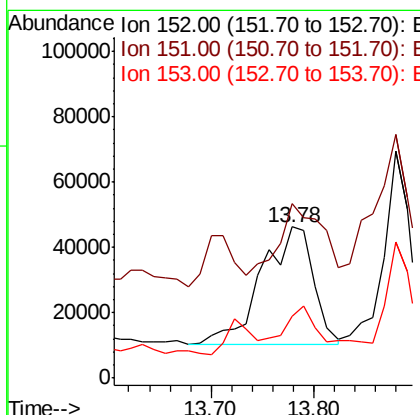
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#16
Acenaphthylene
Concen: 0.620 ng
RT: 13.78 min Scan# 1272
Delta R.T. 0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	49.2	16.1	24.1#
153	16.9	10.6	15.8#





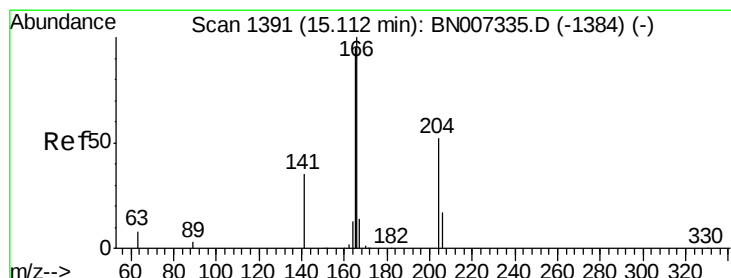
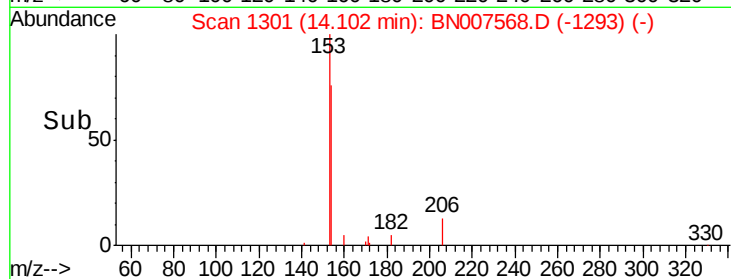
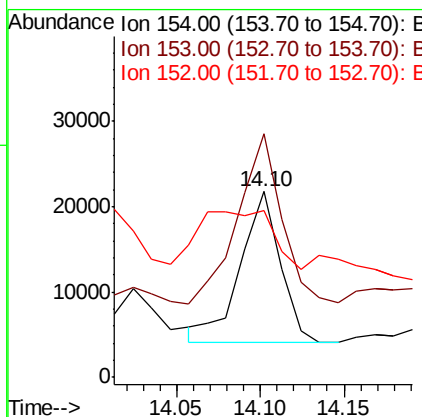
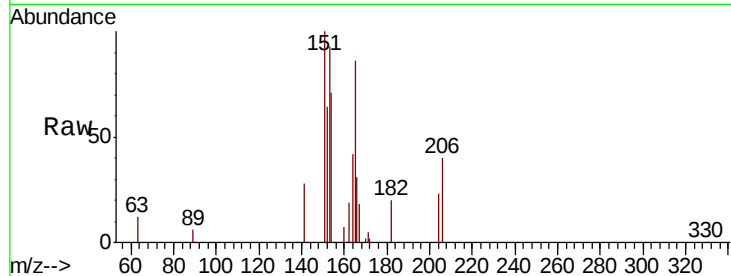
#17
Acenaphthene
Concen: 0.248 ng
RT: 14.10 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Lower	Upper
154	100		
153	124.8	92.8	139.2
152	73.0	43.8	65.8

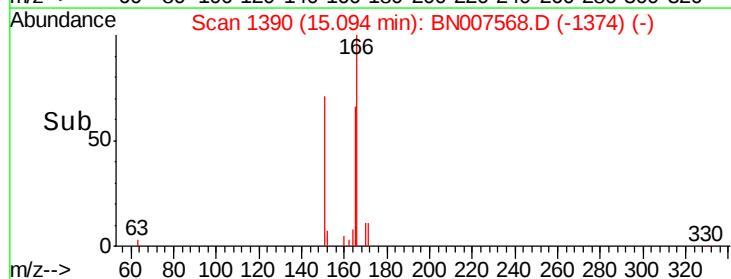
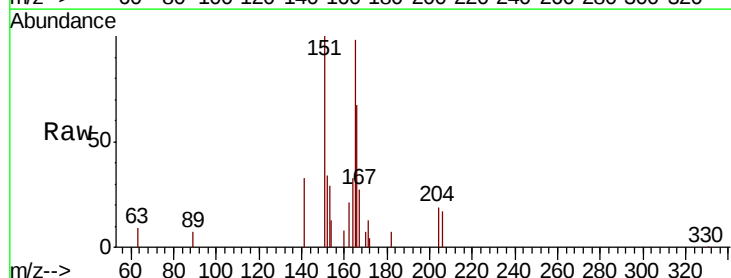
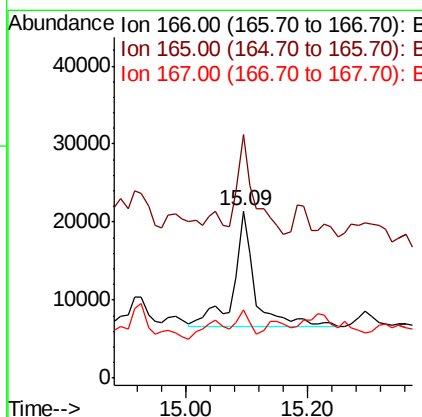
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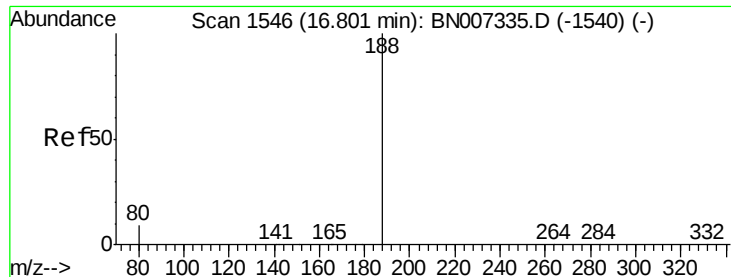
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#18
Fluorene
Concen: 0.248 ng
RT: 15.09 min Scan# 1390
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	61.8	79.0	118.4
167	11.9	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.78 min Scan# 1545

Delta R.T. -0.02 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Instrument :

BNA_N

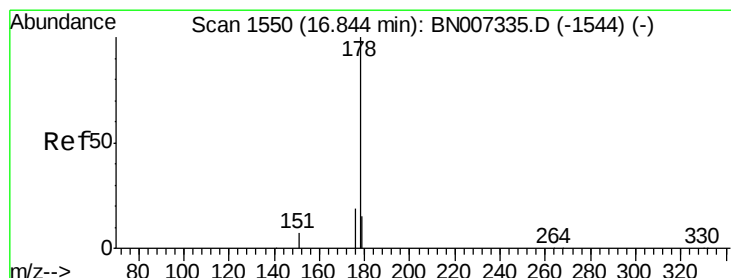
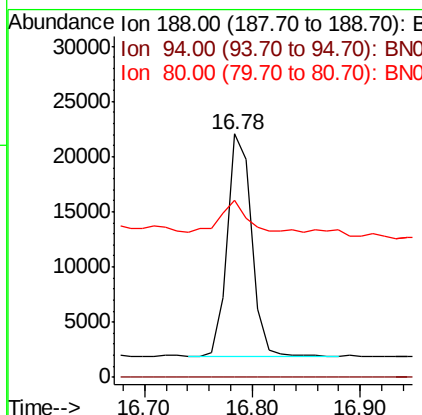
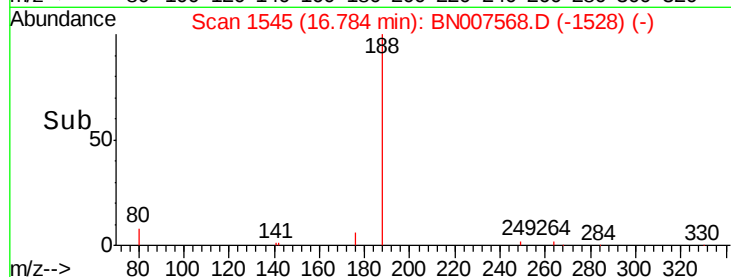
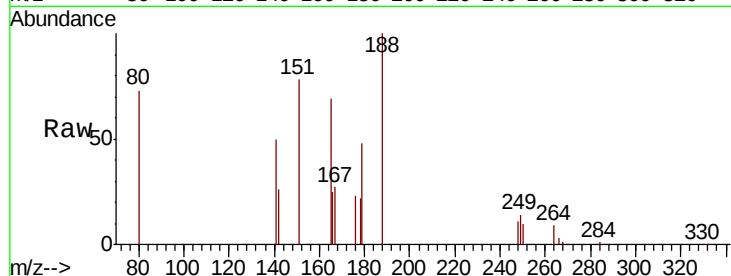
ClientSampleId :

STOCK-PILE

Tot Ion:188	Resp:	31413
Ion Ratio	Lower	Upper
188 100		
94 0.0	0.0	0.0
80 72.8	11.8	17.8#

Manual Integrations
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mohammad
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#23

Phenanthrene

Concen: 4.559 ng

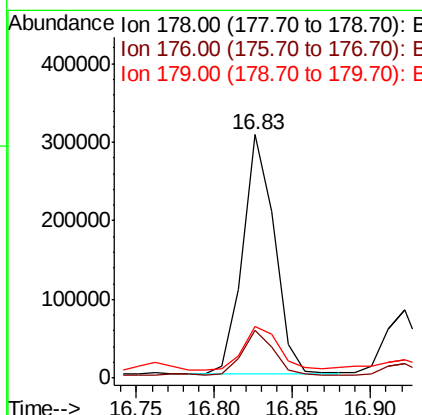
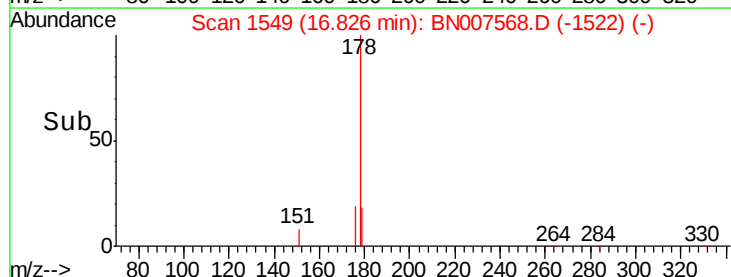
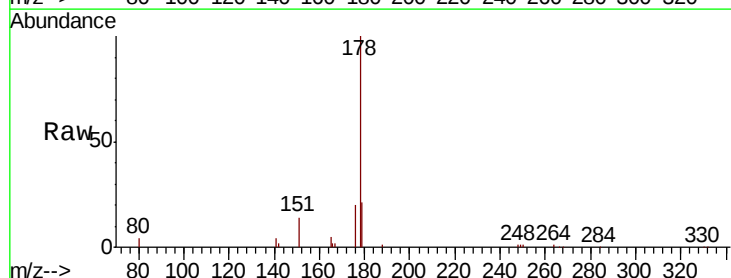
RT: 16.83 min Scan# 1549

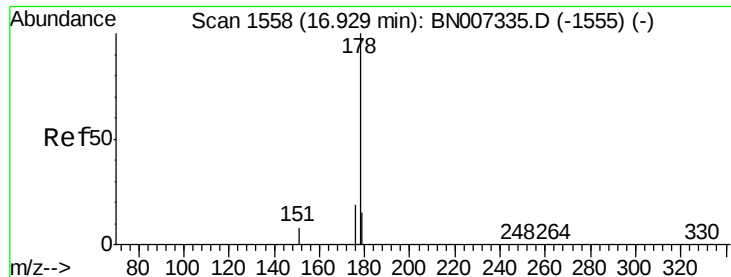
Delta R.T. -0.02 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Tgt Ion:178	Resp:	430804
Ion Ratio	Lower	Upper
178 100		
176 18.5	15.3	22.9
179 20.8	12.6	19.0#





#24

Anthracene

Concen: 1.210 ng

RT: 16.92 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Instrument :

BNA_N

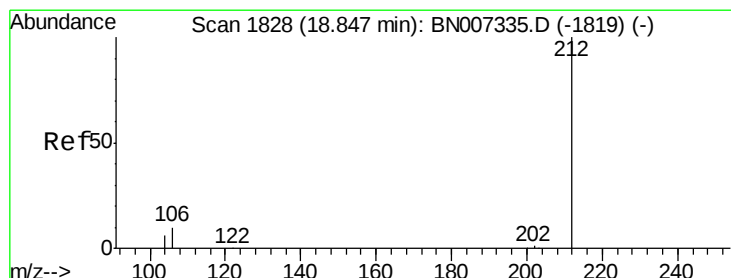
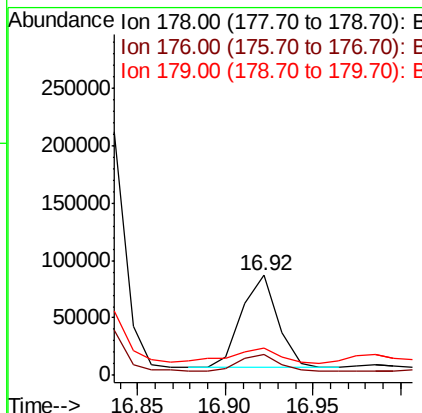
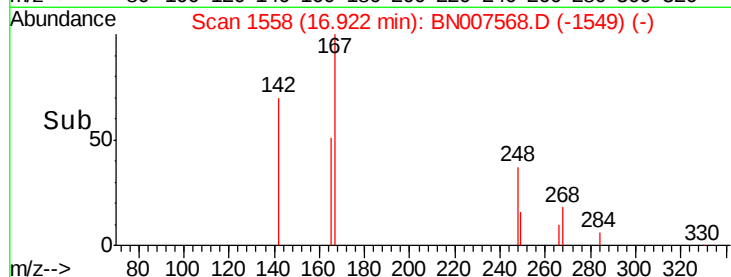
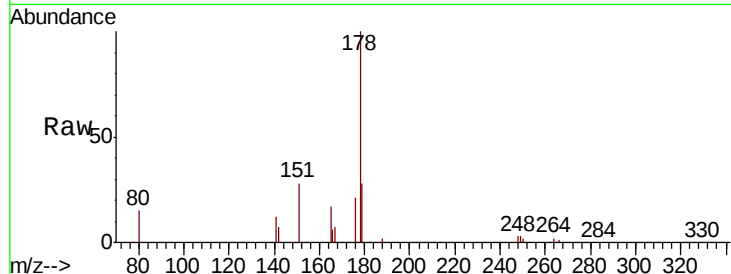
ClientSampleId :

STOCK-PILE

Tot Ion:	178	Resp:	115005
Ion Ratio	Lower	Upper	
178	100		
176	18.8	14.9	22.3
179	21.7	12.4	18.6#

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.316 ng

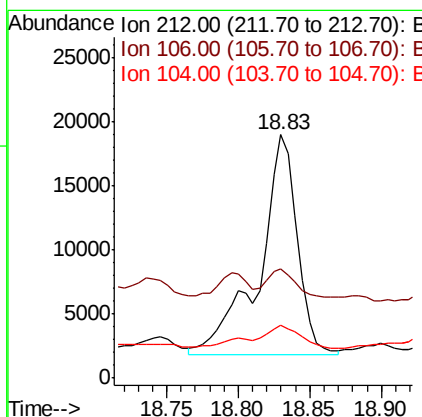
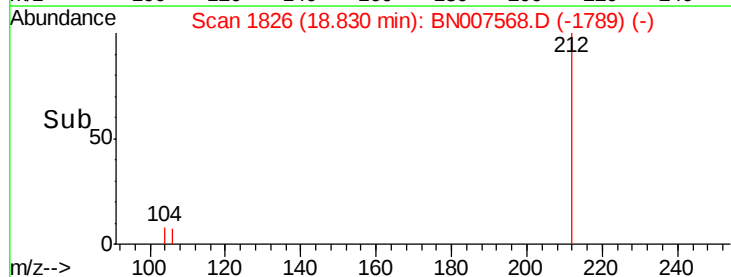
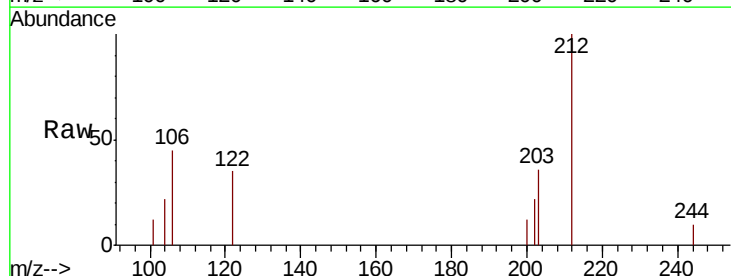
RT: 18.83 min Scan# 1826

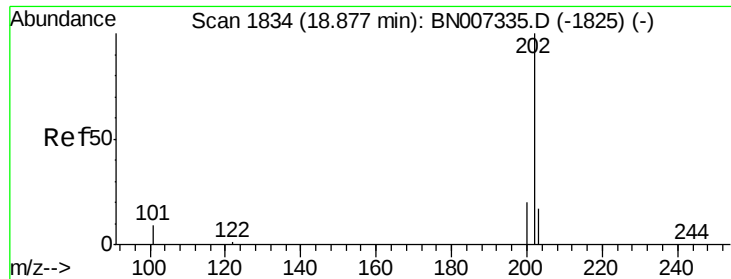
Delta R.T. -0.02 min

Lab File: BN007568.D

Acq: 09 Sep 2019 01:49

Tgt Ion:	212	Resp:	31958
Ion Ratio	Lower	Upper	
212	100		
106	12.5	9.0	13.4
104	9.0	5.4	8.2#





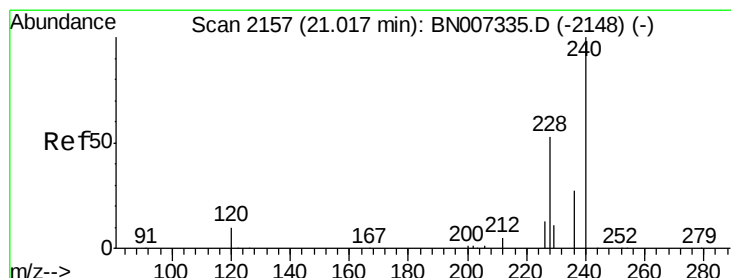
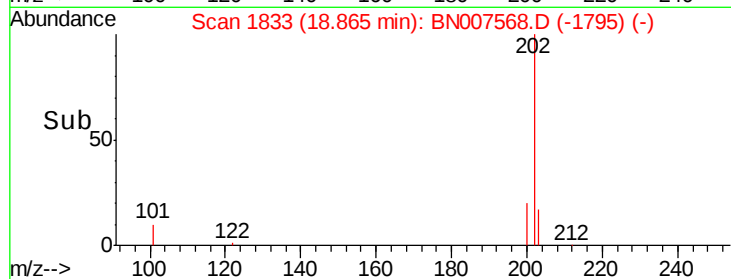
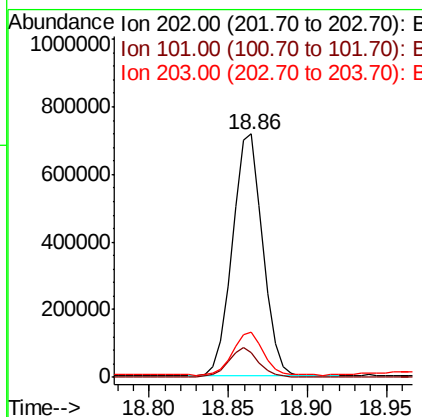
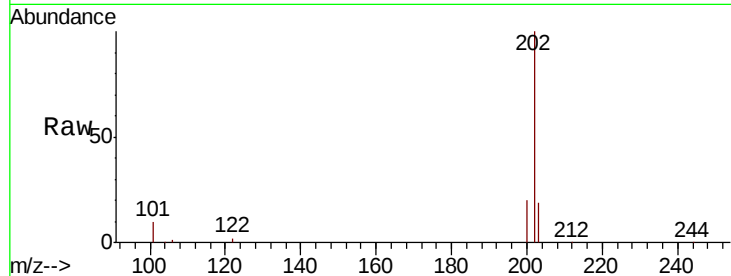
#26
Fluoranthene
Concen: 7.881 ng
RT: 18.86 min Scan# 1833
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Resp	Lower	Upper
202	100	956104		
101	11.6	7.7	11.5#	
203	17.4	13.7	20.5	

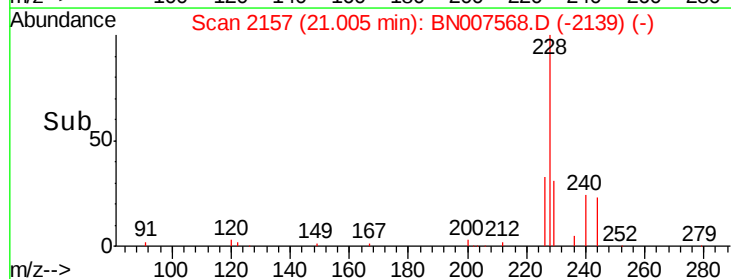
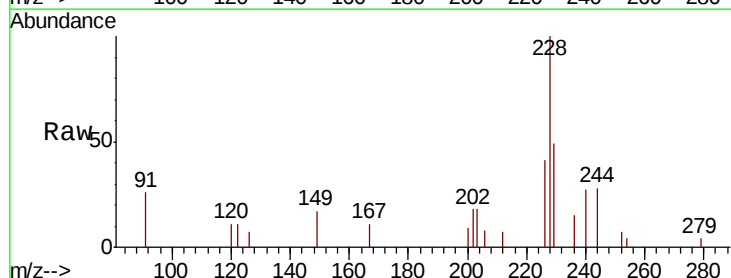
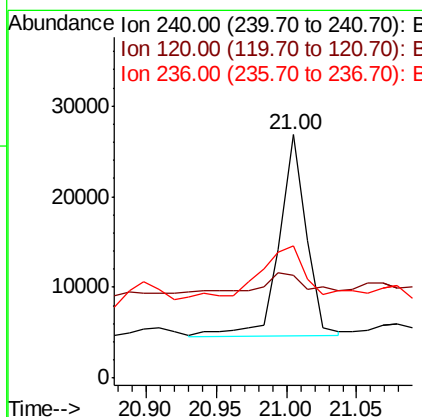
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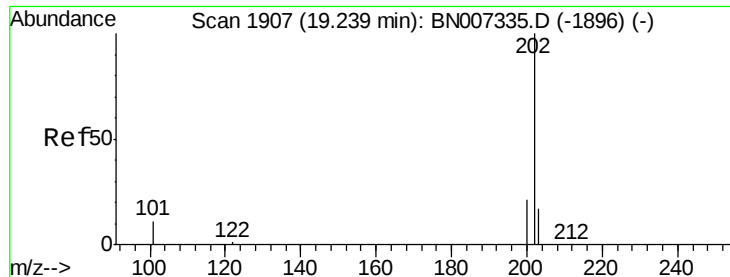
mohammad
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.00 min Scan# 2157
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	30396		
120	42.1	9.6	14.4#	
236	54.3	22.2	33.2#	





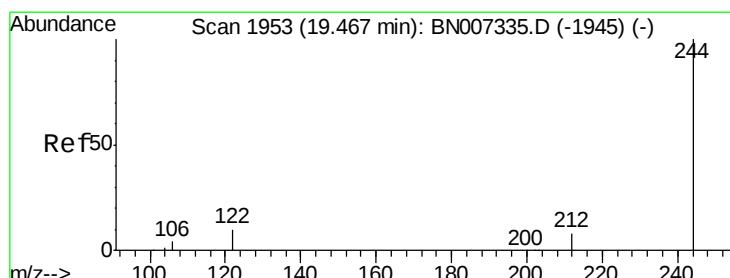
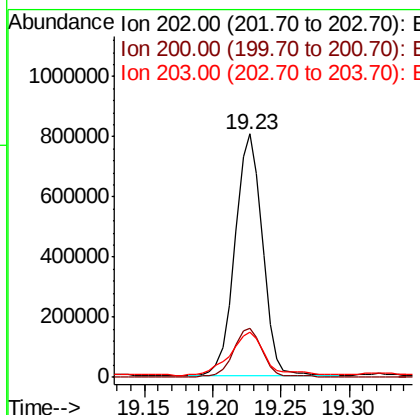
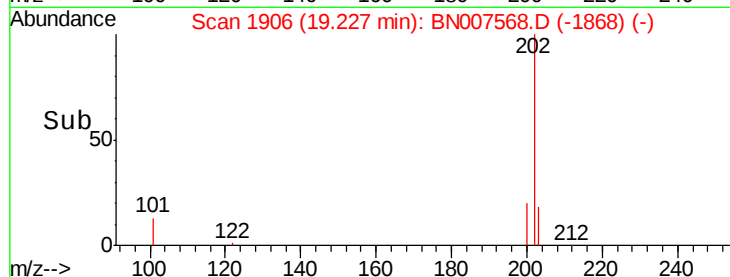
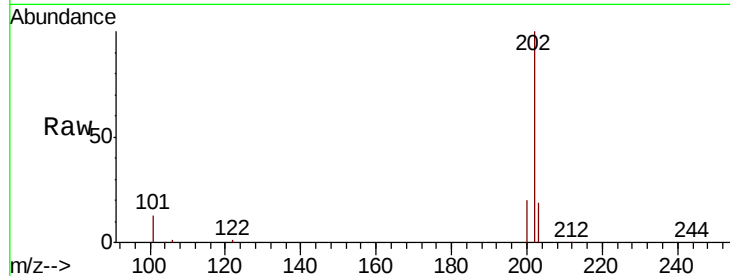
#28
Pvrene
Concen: 9.179 ng
RT: 19.23 min Scan# 1906
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampled :
STOCK-PILE

Tot Ion:202 Resp: 1122296
Ion Ratio Lower Upper
202 100
200 20.6 16.6 25.0
203 20.8 14.2 21.4

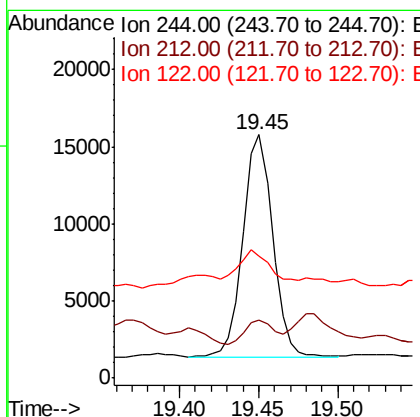
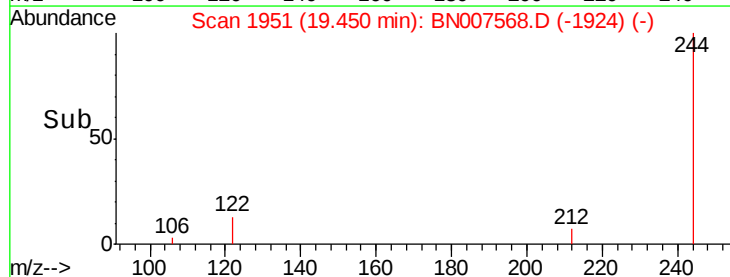
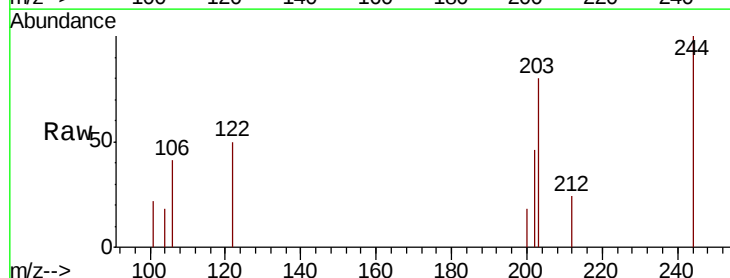
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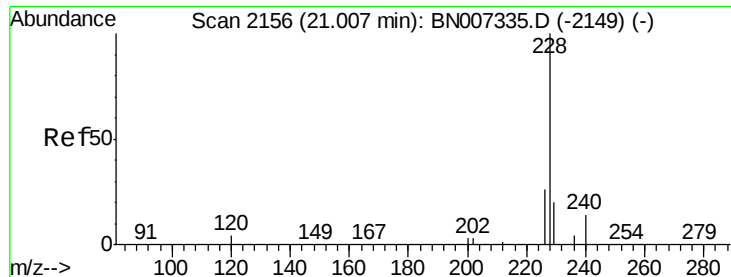
mohammad
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#29
Terphenyl-d14
Concen: 0.237 ng
RT: 19.45 min Scan# 1951
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion:244 Resp: 18838
Ion Ratio Lower Upper
244 100
212 23.6 7.0 10.6#
122 50.1 9.6 14.4#





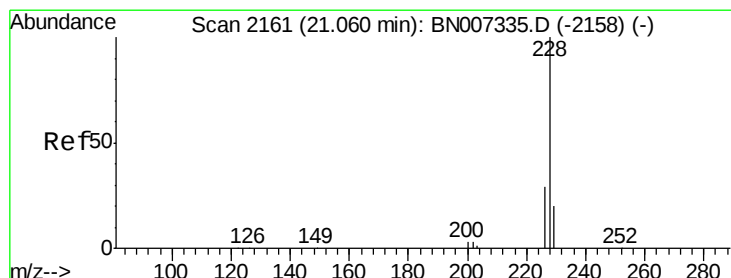
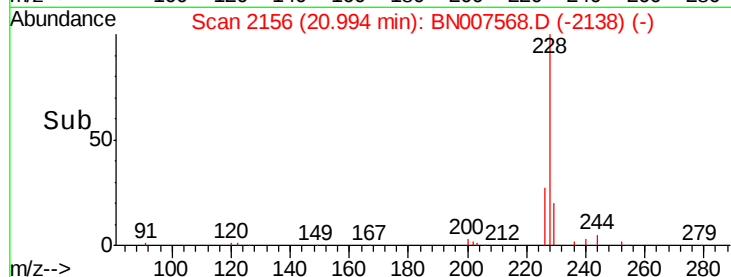
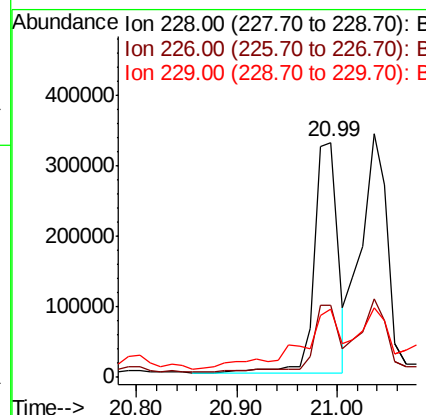
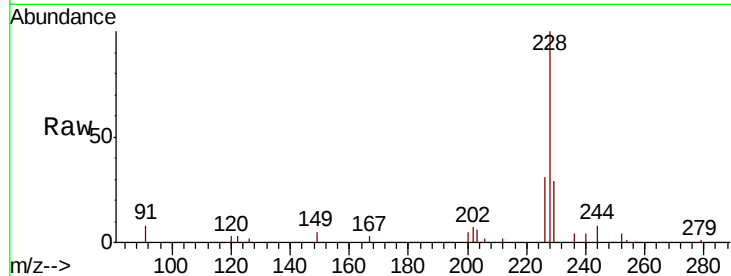
#30
Benzo(a)anthracene
Concen: 4.567 ng
RT: 20.99 min Scan# 2156
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	21.3	31.9
229	29.0	16.1	24.1

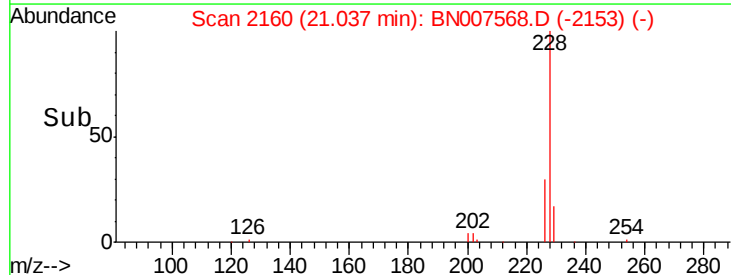
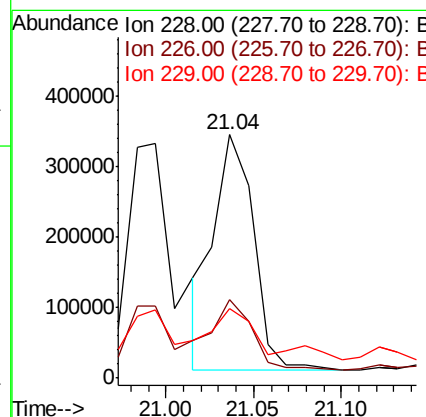
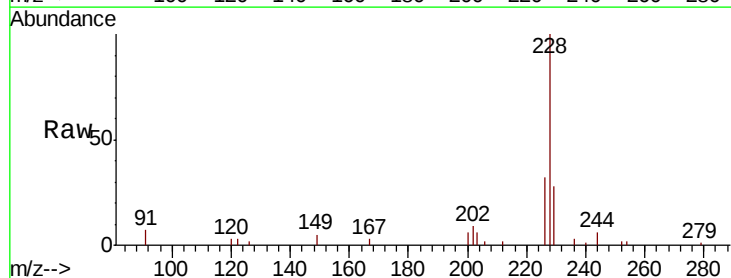
Manual Integrations
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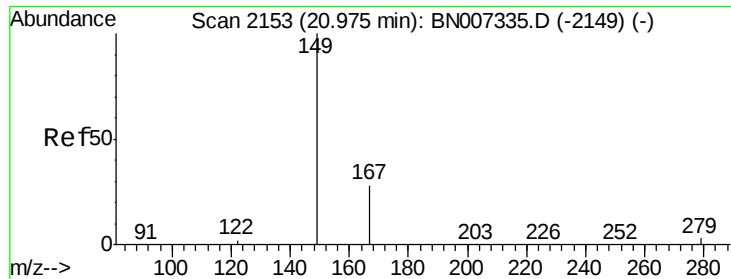
mohammad
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#31
Chrysene
Concen: 4.554 ng
RT: 21.04 min Scan# 2160
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	23.5	35.3
229	28.5	16.6	24.8





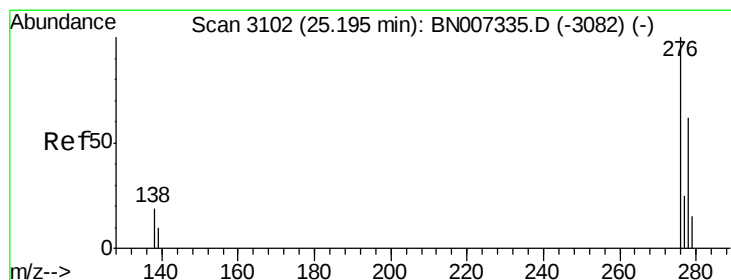
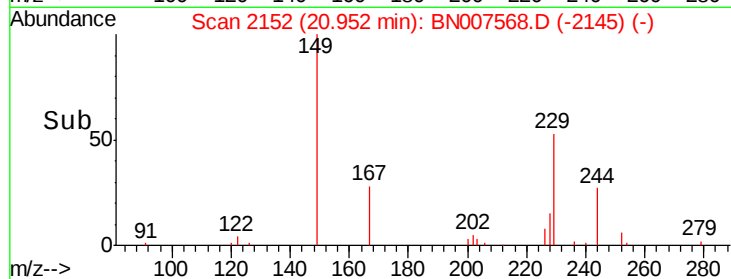
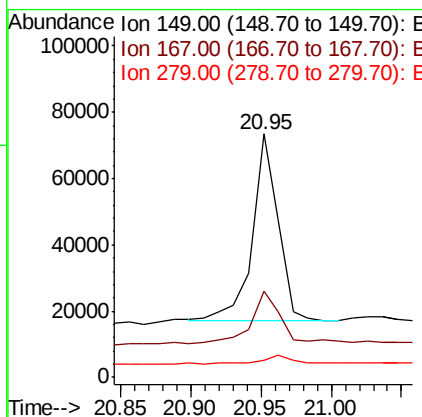
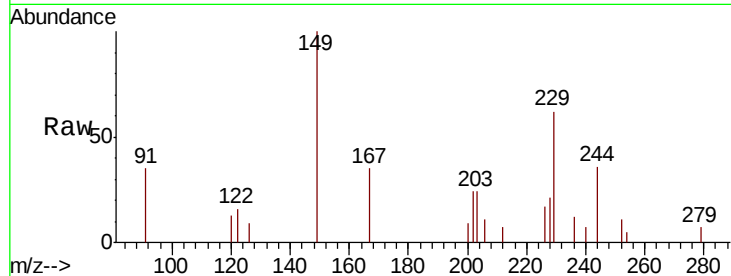
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.916 ng
 RT: 20.95 min Scan# 2152
 Delta R.T. -0.02 min
 Lab File: BN007568.D
 Acq: 09 Sep 2019 01:49

Instrument :
 BNA_N
 ClientSampleID :
 STOCK-PILE

Tot Ion	Ratio	Lower	Upper
149	100		
167	30.2	22.8	34.2
279	5.5	3.5	5.3#

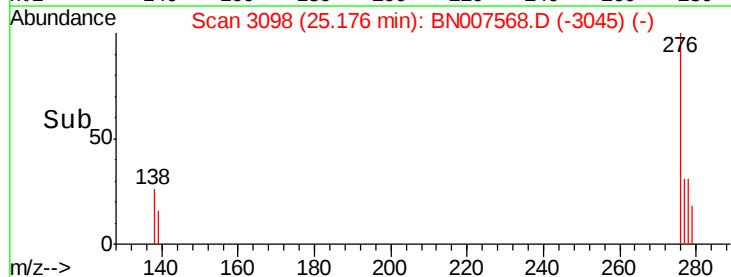
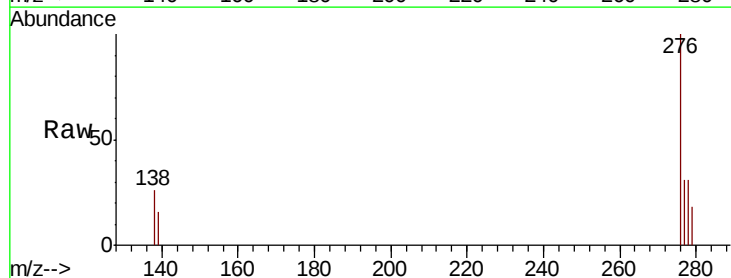
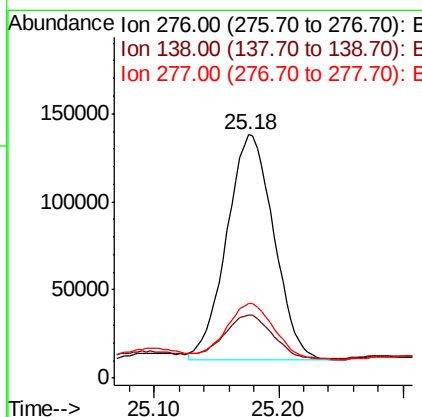
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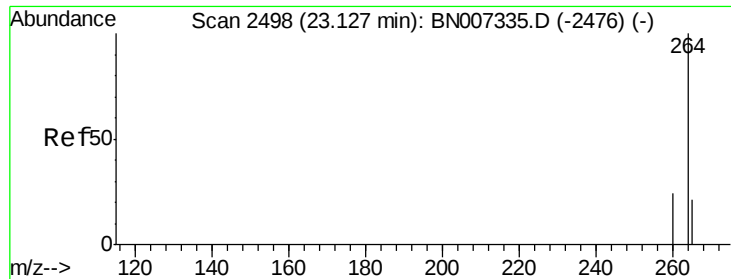
mohammad
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#33
 Indeno(1,2,3-cd)pyrene
 Concen: 2.417 ng
 RT: 25.18 min Scan# 3098
 Delta R.T. -0.02 min
 Lab File: BN007568.D
 Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.1	15.1	22.7
277	25.1	19.7	29.5





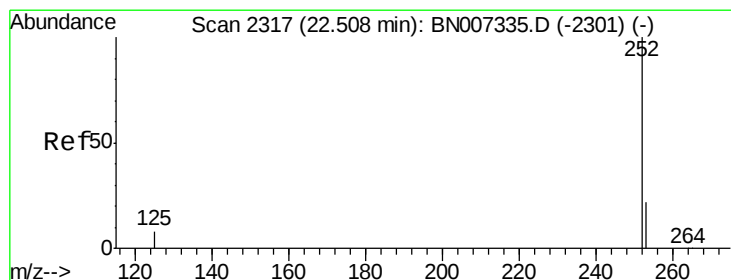
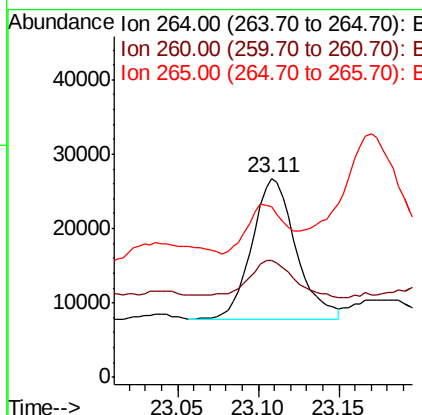
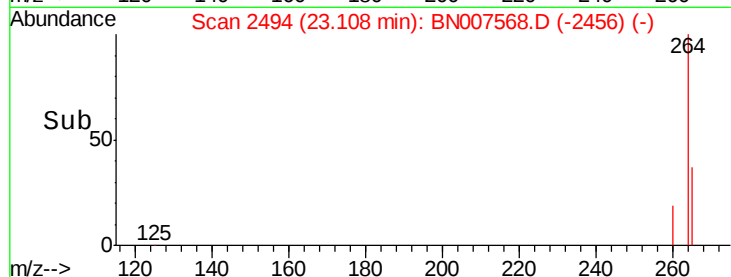
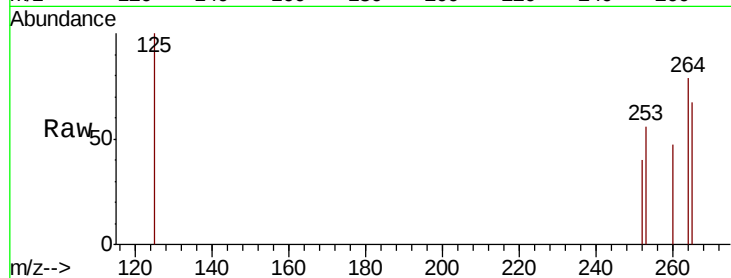
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.11 min Scan# 2494
 Delta R.T. -0.02 min
 Lab File: BN007568.D
 Acq: 09 Sep 2019 01:49

Instrument :
 BNA_N
 ClientSampled :
 STOCK-PILE

Tot Ion	Ratio	Lower	Upper
264	100		
260	58.9	19.7	29.5#
265	85.4	29.9	44.9#

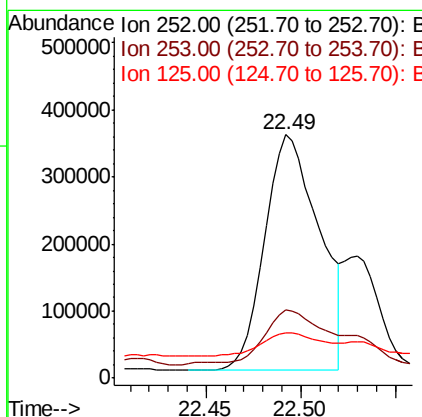
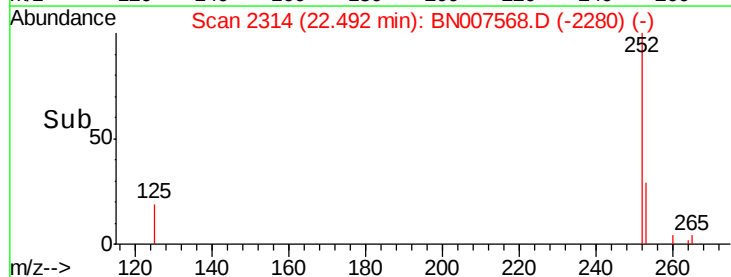
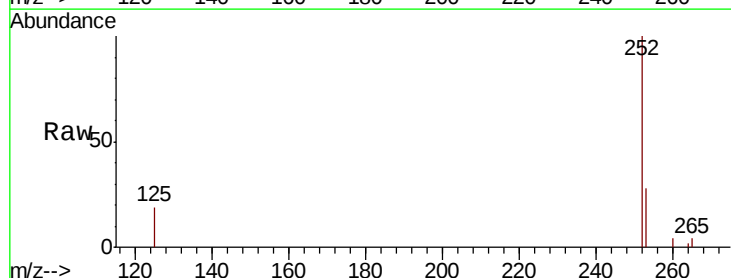
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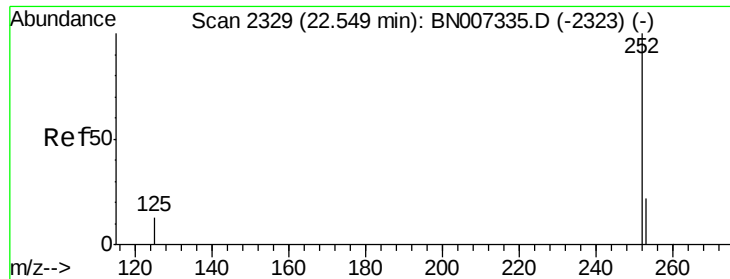
mohammad
 9/16/2019 8:53:24 AM



#35
 Benzo(b)fluoranthene
 Concen: 5.430 ng
 RT: 22.49 min Scan# 2314
 Delta R.T. -0.02 min
 Lab File: BN007568.D
 Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.0	19.2	28.8
125	18.6	10.6	16.0#





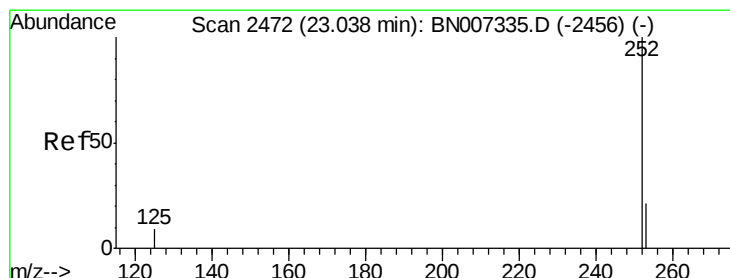
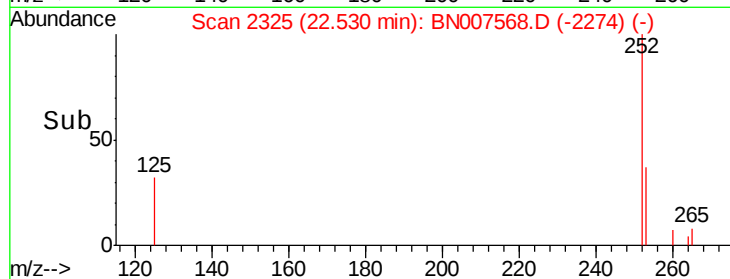
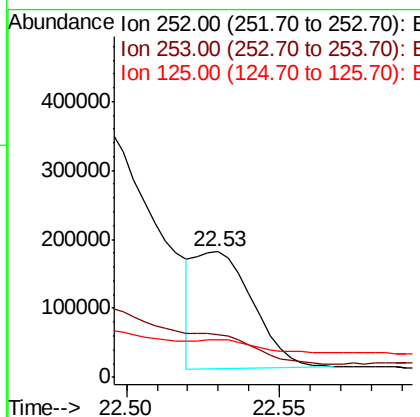
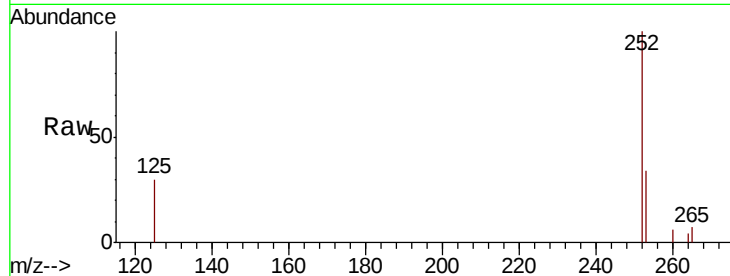
#36
Benzo(k)fluoranthene
Concen: 1.750 ng m
RT: 22.53 min Scan# 2325
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Lower	Upper
252	100		
253	34.5	19.4	29.2#
125	29.9	13.1	19.7#

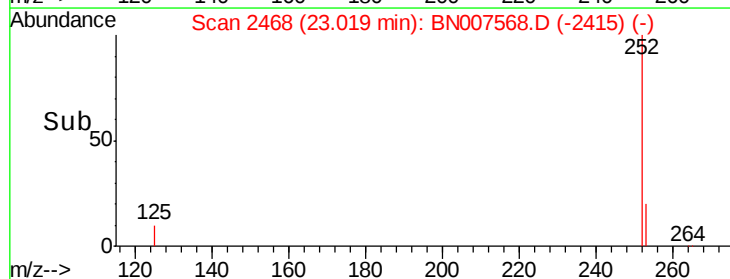
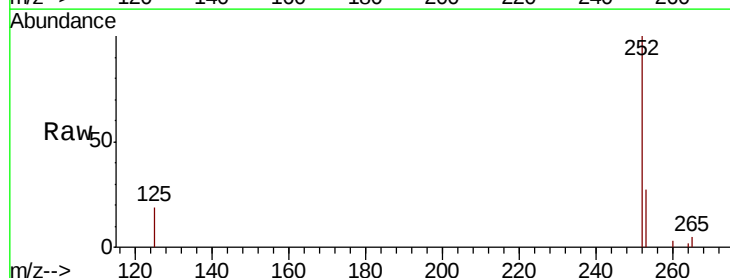
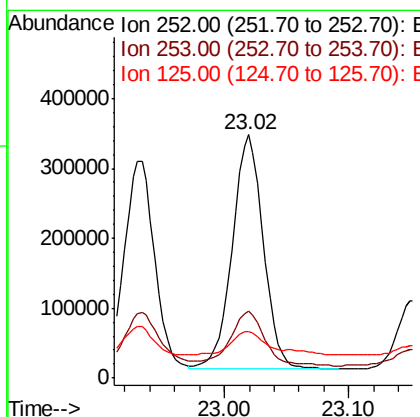
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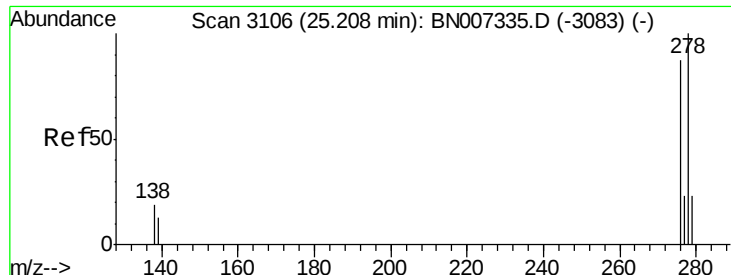
mohammad
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#37
Benzo(a)pyrene
Concen: 4.719 ng
RT: 23.02 min Scan# 2468
Delta R.T. -0.02 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.4	19.5	29.3
125	19.3	12.1	18.1#





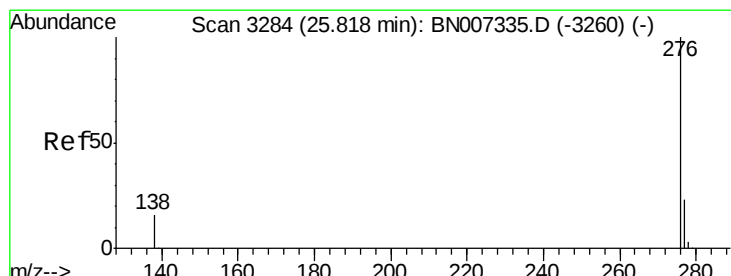
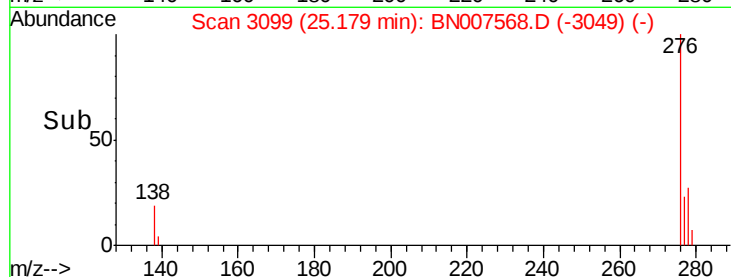
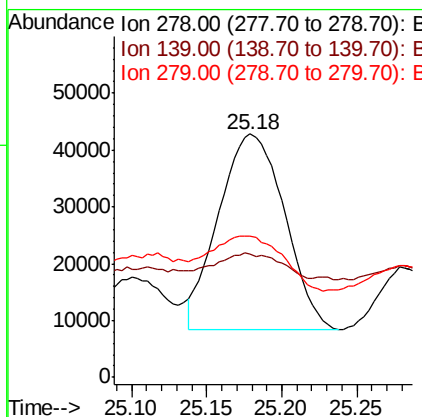
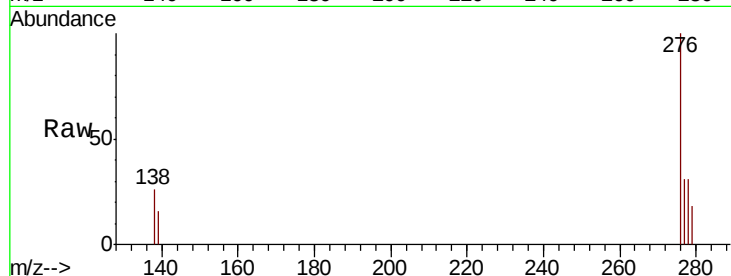
#38
Dibenzo(a,h)anthracene
Concen: 0.847 ng
RT: 25.18 min Scan# 3099
Delta R.T. -0.03 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Instrument :
BNA_N
ClientSampleId :
STOCK-PILE

Tot Ion	Ratio	Lower	Upper
278	100		
139	50.7	13.7	20.5#
279	58.1	20.2	30.4#

Manual Integrations
APPROVED

mohammad
9/16/2019 8:53:24 AM



#39
Benzo(g,h,i)perylene
Concen: 3.481 ng
RT: 25.81 min Scan# 3282
Delta R.T. -0.01 min
Lab File: BN007568.D
Acq: 09 Sep 2019 01:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.1	19.6	29.4
138	25.0	16.3	24.5#

