

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
 Data File : BP001138.D
 Acq On : 02 Dec 2019 21:12
 Operator : JU
 Sample : K5675-09 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TR-05-112619

Manual Integrations
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Quant Time: Dec 03 01:04:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP112719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 17:38:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.33	152	196025	20.00	ng	0.00
21) Naphthalene-d8	10.36	136	709976	20.00	ng	0.00
39) Acenaphthene-d10	13.23	164	359798	20.00	ng	0.00
64) Phenanthrene-d10	15.63	188	661021	20.00	ng	0.00
76) Chrysene-d12	19.27	240	509595	20.00	ng	0.00
87) Perylene-d12	21.05	264	601356	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	6.23	112	522858	44.25	ng	0.00
7) Phenol-d6	7.77	99	701844	44.59	ng	0.00
23) Nitrobenzene-d5	9.20	82	438954	26.82	ng	0.00
42) 2,4,6-Tribromophenol	14.52	330	115984	33.63	ng	0.00
45) 2-Fluorobiphenyl	12.14	172	680089	27.66	ng	-0.01
79) Terphenyl-d14	17.92	244	698081	25.34	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.39	128	221685	6.114	ng	100
37) 2-Methylnaphthalene	11.53	142	151799	6.135	ng	99
38) 1-Methylnaphthalene	11.69	142	115156	4.927	ng	99
49) Acenaphthylene	12.99	152	111239	3.341	ng	98
50) Dimethylphthalate	12.81	163	73812	2.743	ng	100
52) Acenaphthene	13.27	154	87143	4.351	ng	99
55) Dibenzofuran	13.56	168	116832	3.882	ng	98
58) Fluorene	14.13	166	207373	8.599	ng	99
71) Phenanthrene	15.66	178	1240460	35.695	ng	99
72) Anthracene	15.74	178	360922	10.537	ng	99
73) Carbazole	15.98	167	110271	3.538	ng	98
75) Fluoranthene	17.38	202	1008768	27.419	ng	98
78) Pvrene	17.69	202	1108729	27.624	ng	99
81) Benzo(a)anthracene	19.26	228	612094	17.324	ng	96
83) Chrysene	19.30	228	547993	17.320	ng	97
86) Indeno(1,2,3-cd)pyrene	22.70	276	311448	8.353	ng	97
88) Benzo(b)fluoranthene	20.56	252	679913m	18.511	ng	
89) Benzo(k)fluoranthene	20.59	252	252501m	7.137	ng	
90) Benzo(a)pvrene	20.98	252	532921	15.752	ng	99
91) Dibenzo(a,h)anthracene	22.72	278	83391	2.519	ng	94
92) Benzo(g,h,i)perylene	23.19	276	287156	8.783	ng	99

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

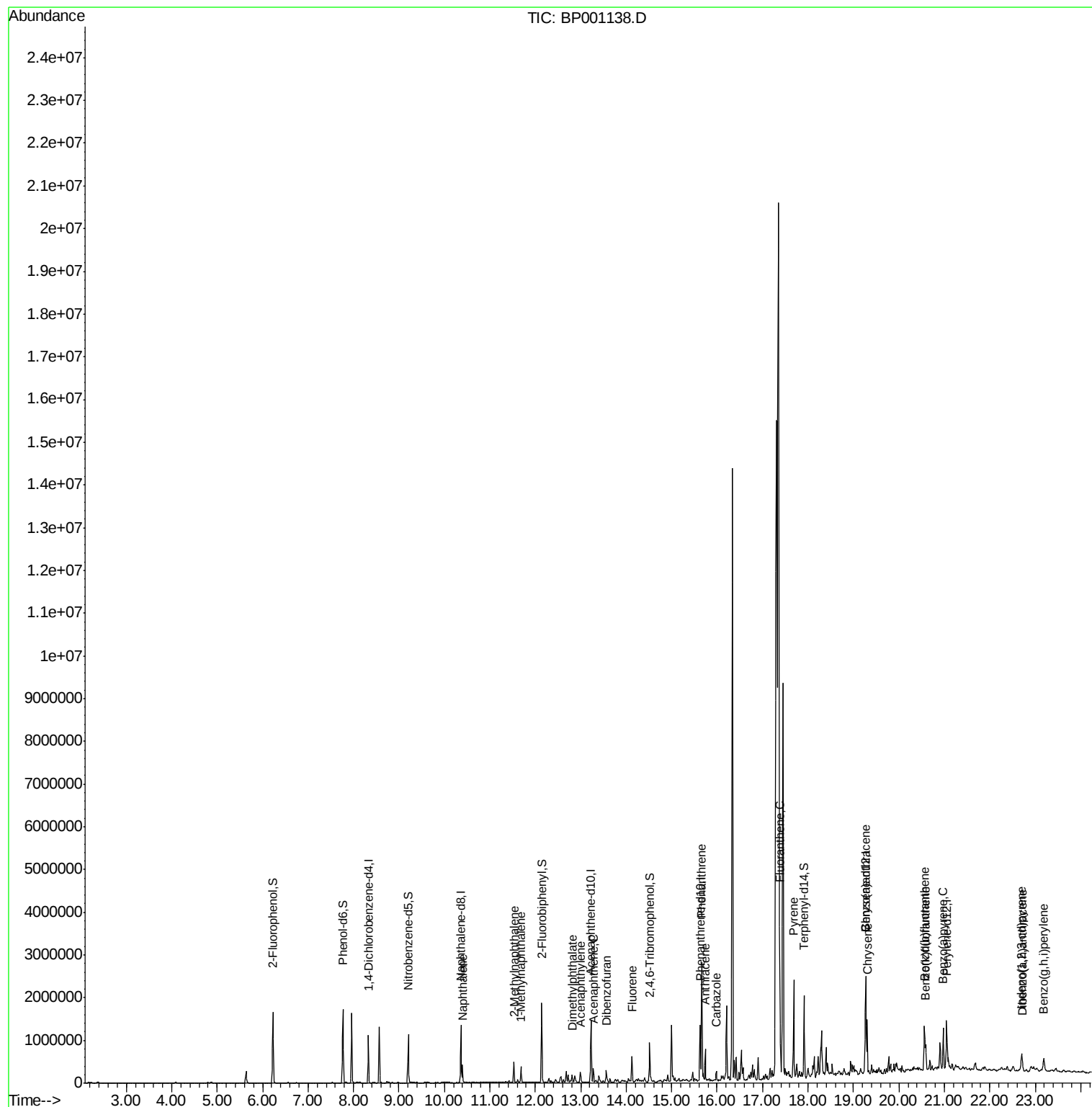
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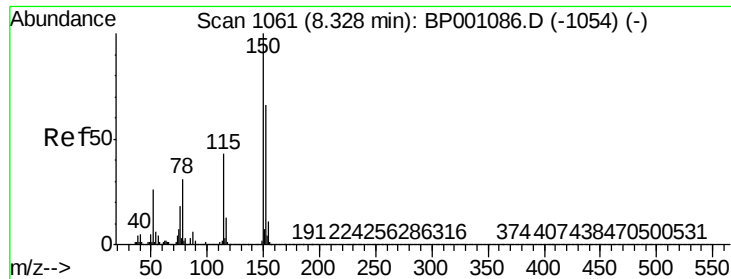
Instrument :
BNA_P
ClientSampleId :
TR-05-112619

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Quant Time: Dec 03 01:04:38 2019
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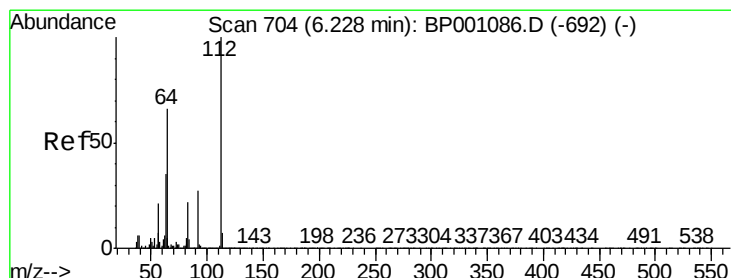
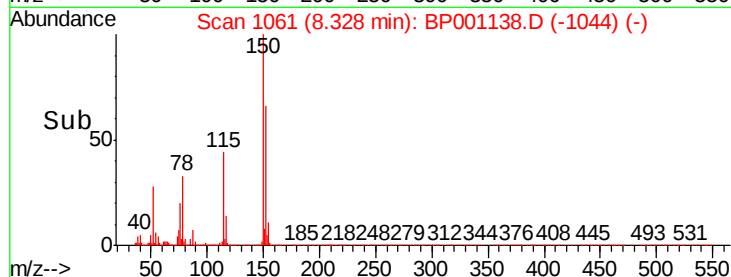
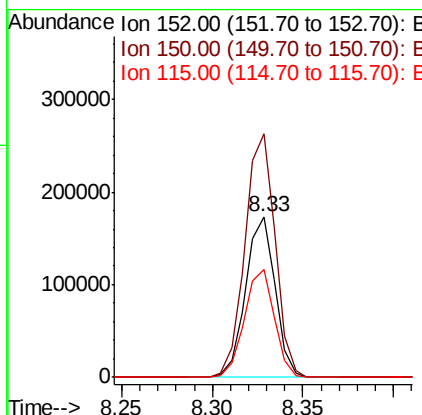
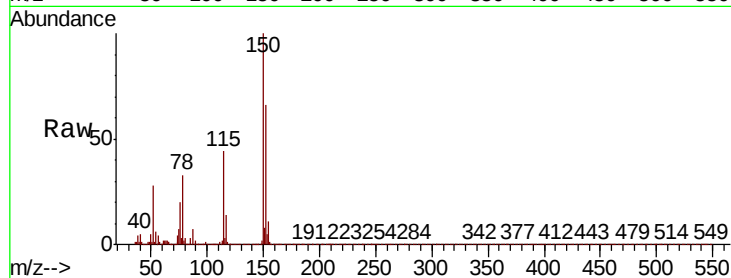
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.33 min Scan# 1061
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.2	120.6	181.0
115	66.8	51.6	77.4

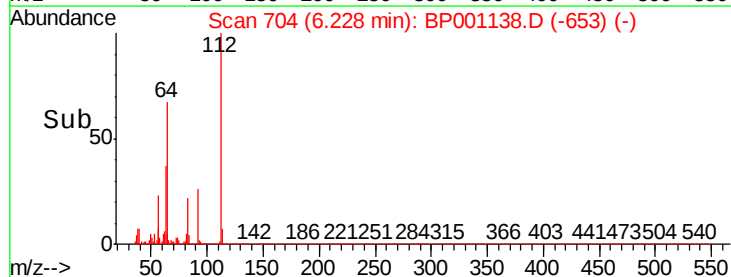
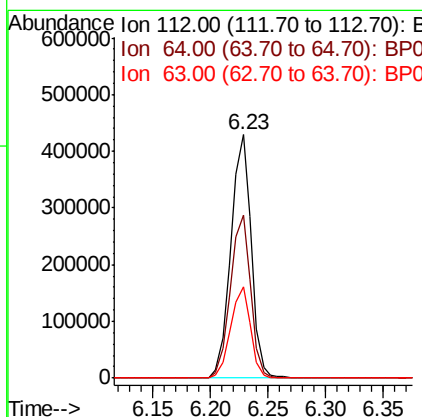
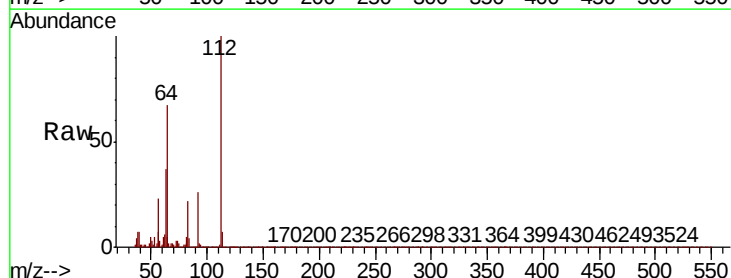
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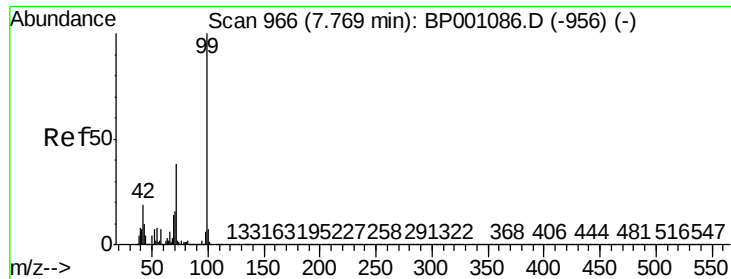
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#5
2-Fluorophenol
Concen: 44.253 ng
RT: 6.23 min Scan# 704
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.7	52.8	79.2
63	37.4	28.2	42.2





#7

Phenol-d6

Concen: 44.587 ng

RT: 7.77 min Scan# 966

Delta R.T. 0.00 min

Lab File: BP001138.D

Acq: 02 Dec 2019 21:12

Instrument :

BNA_P

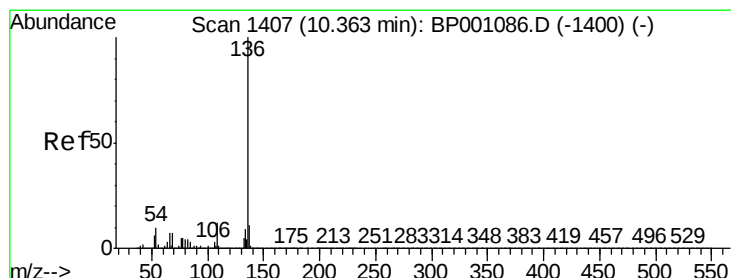
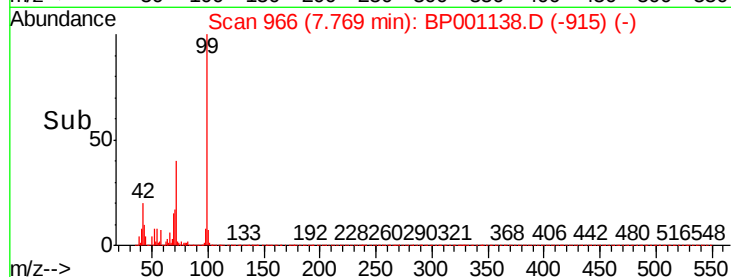
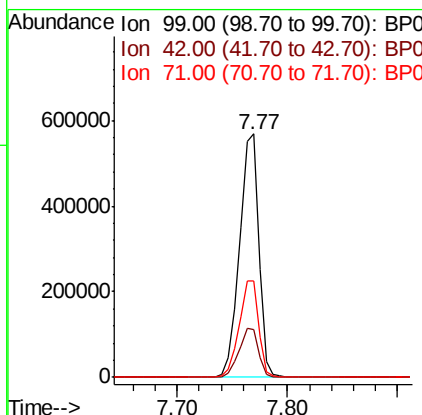
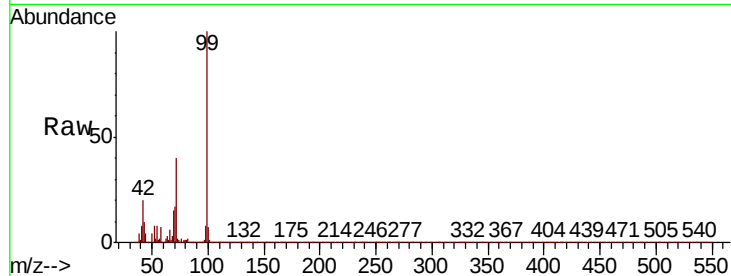
ClientSampleId :

TR-05-112619

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		701844		
42	19.9	15.4	23.0		
71	39.6	30.8	46.2		

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#21

Naphthalene-d8

Concen: 20.000 ng

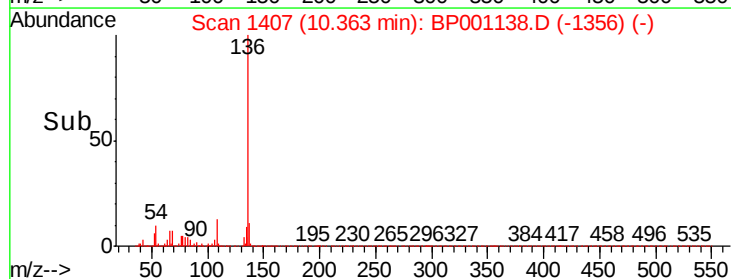
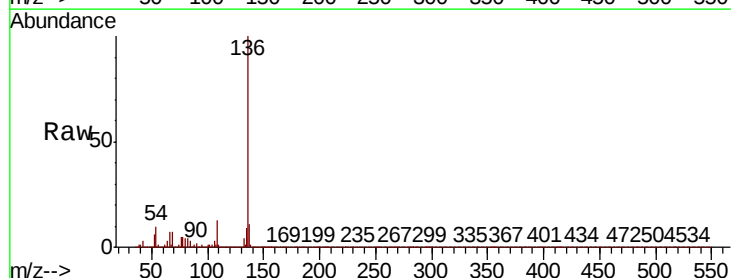
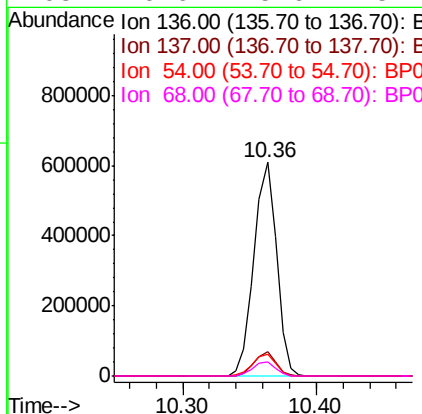
RT: 10.36 min Scan# 1407

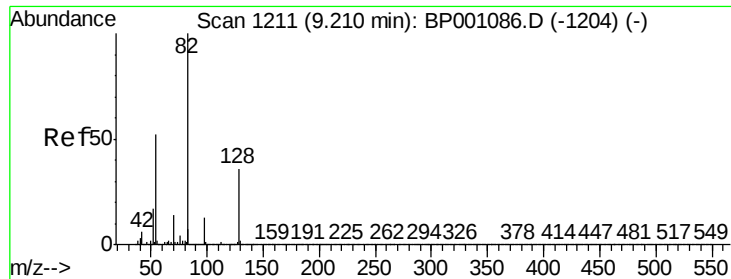
Delta R.T. 0.00 min

Lab File: BP001138.D

Acq: 02 Dec 2019 21:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		709976		
137	11.4	8.8	13.2		
54	10.2	7.9	11.9		
68	6.6	5.6	8.4		





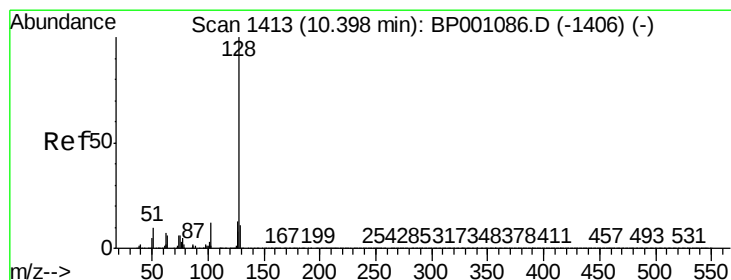
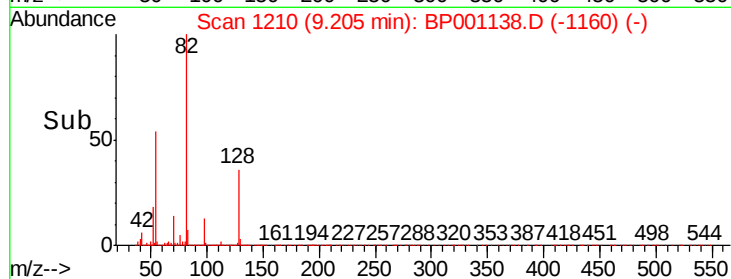
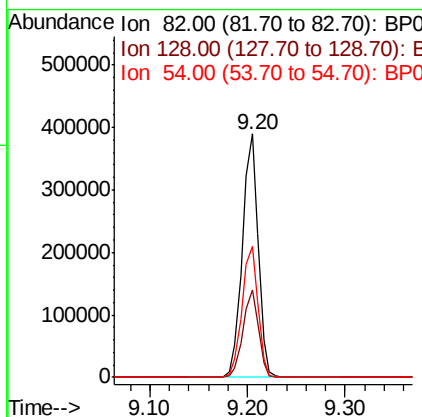
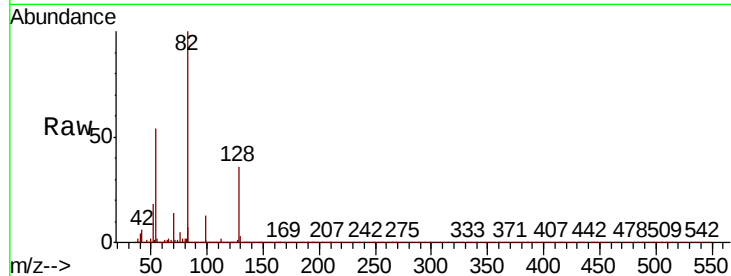
#23
 Nitrobenzene-d5
 Concen: 26.824 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BP001138.D
 Acq: 02 Dec 2019 21:12

Instrument :
 BNA_P
 ClientSampleId :
 TR-05-112619

Tot Ion	82	Resp	438954
Ion Ratio	Lower	Upper	
82	100		
128	36.1	28.9	43.3
54	53.5	41.9	62.9

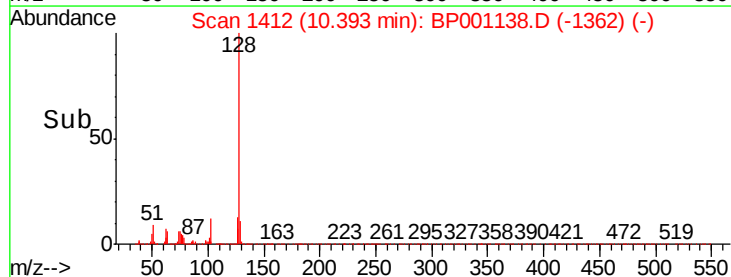
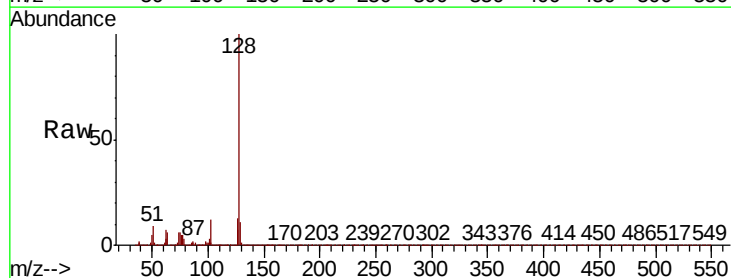
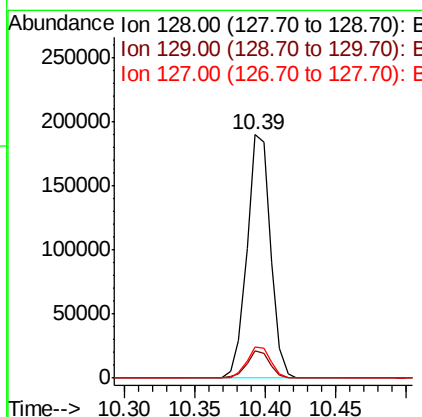
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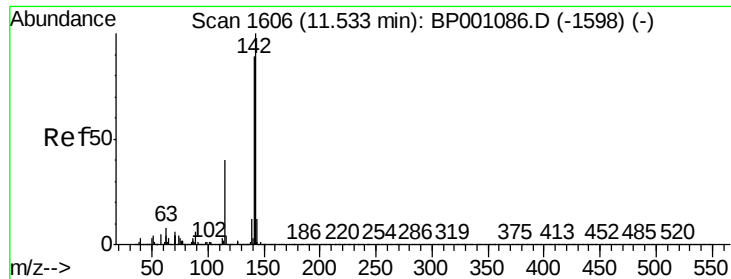
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#31
 Naphthalene
 Concen: 6.114 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BP001138.D
 Acq: 02 Dec 2019 21:12

Tgt Ion	128	Resp	221685
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.8	13.2
127	13.0	10.6	16.0





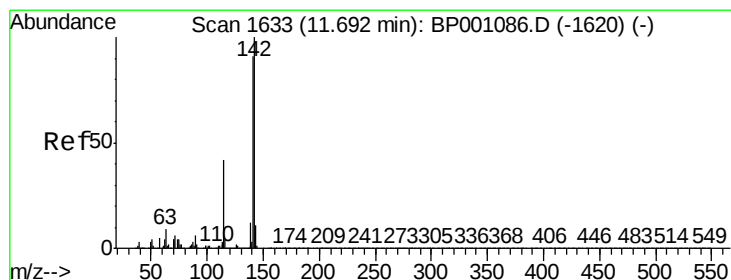
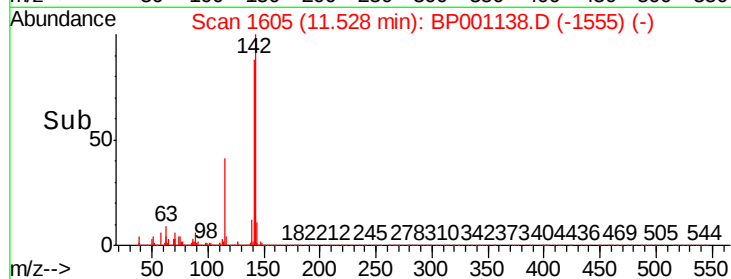
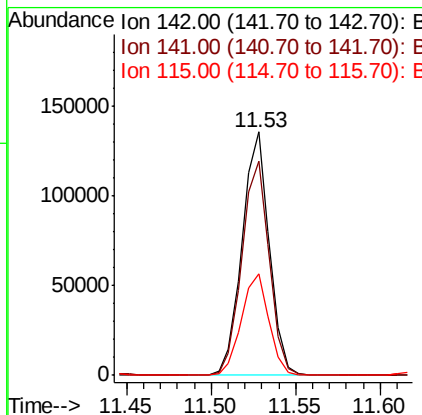
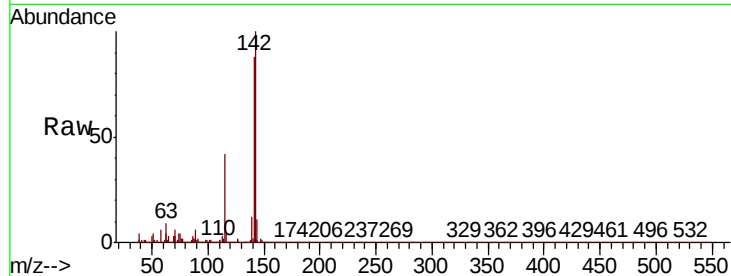
#37
2-Methylnaphthalene
Concen: 6.135 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.1	106.7
115	41.6	32.3	48.5

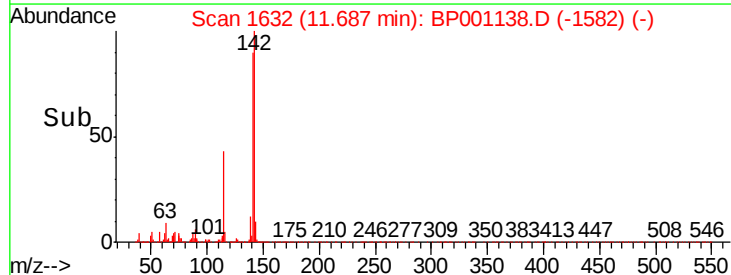
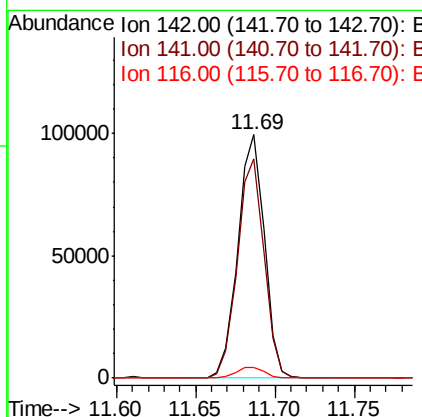
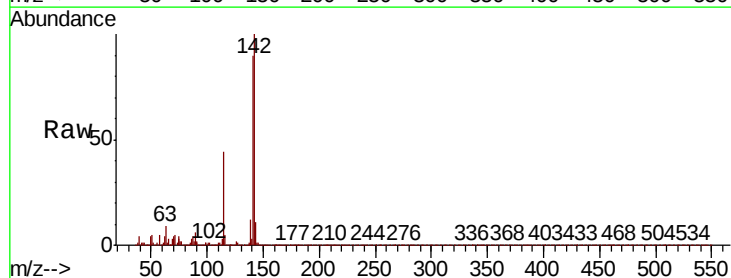
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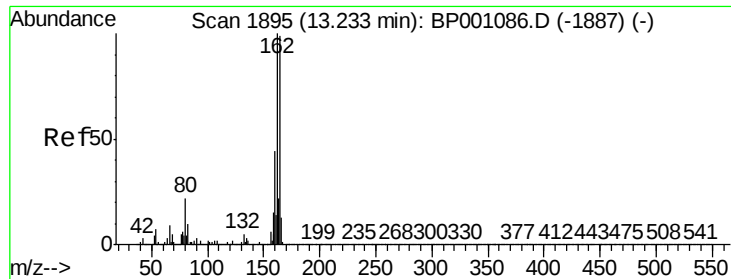
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#38
1-Methylnaphthalene
Concen: 4.927 ng
RT: 11.69 min Scan# 1632
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.3	73.0	109.4
116	4.6	3.4	5.2





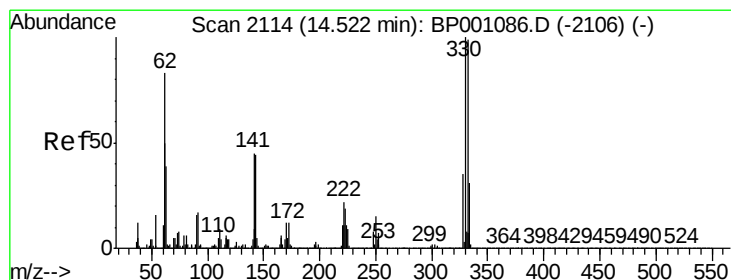
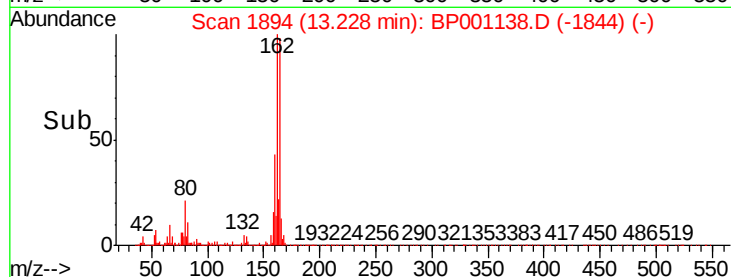
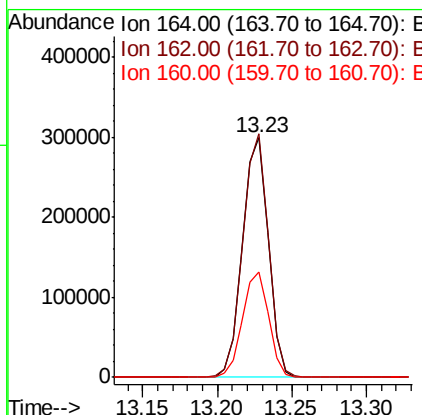
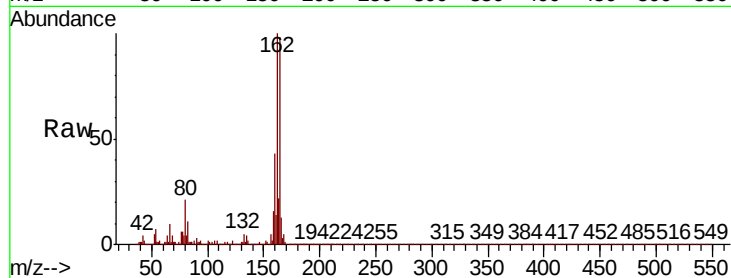
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 13.23 min Scan# 1894
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	80.6	120.8
160	44.2	35.4	53.2

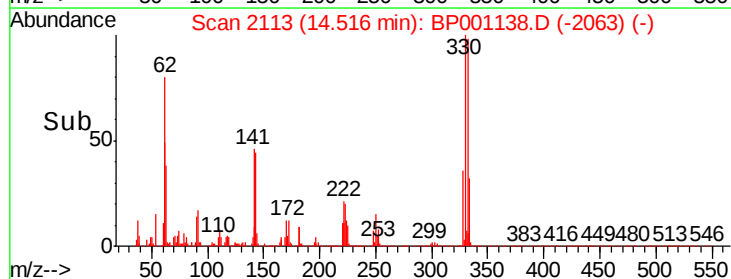
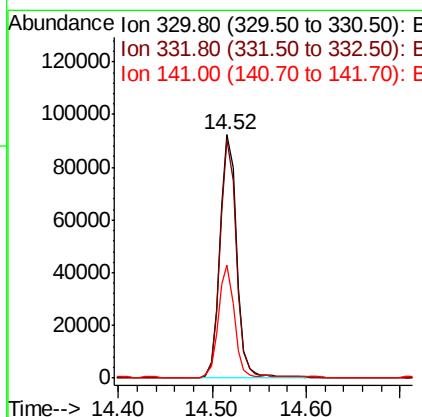
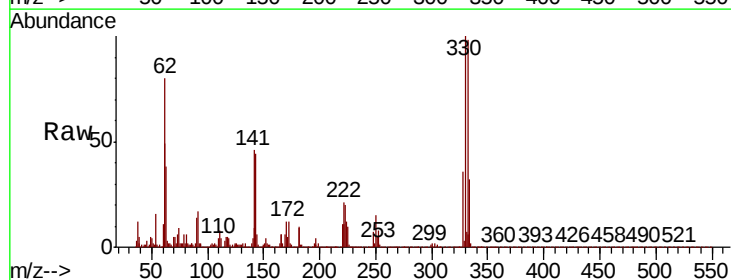
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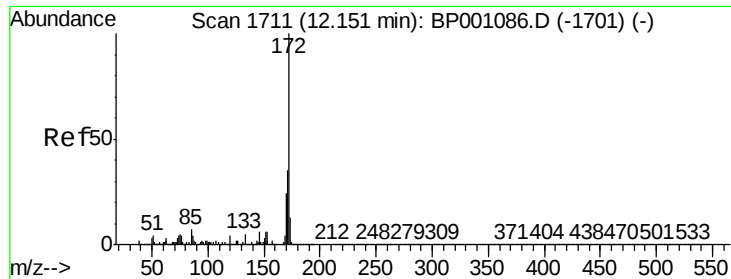
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#42
2,4,6-Tribromophenol
Concen: 33.632 ng
RT: 14.52 min Scan# 2113
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.6	116.4
141	44.2	34.2	51.2





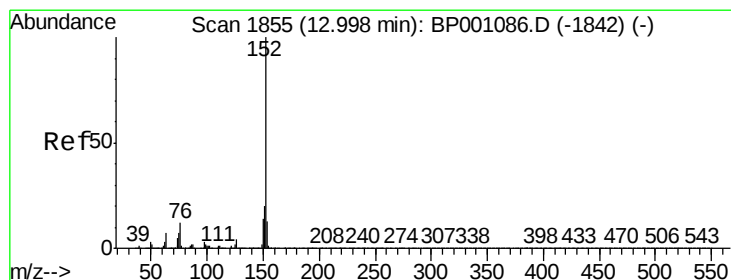
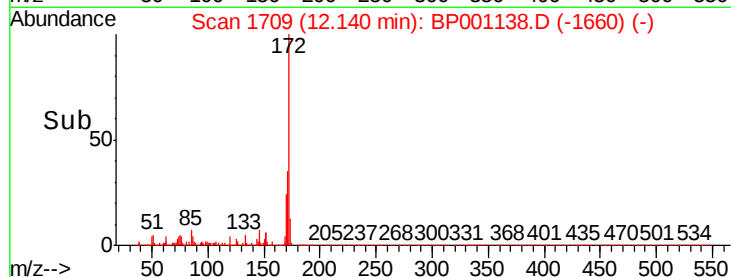
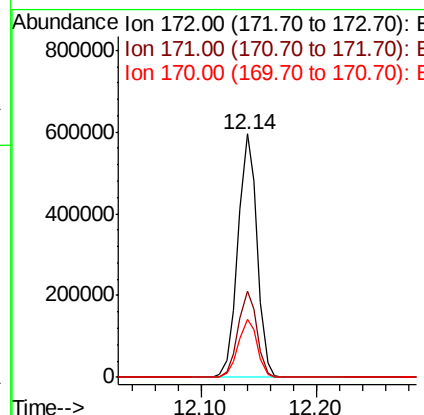
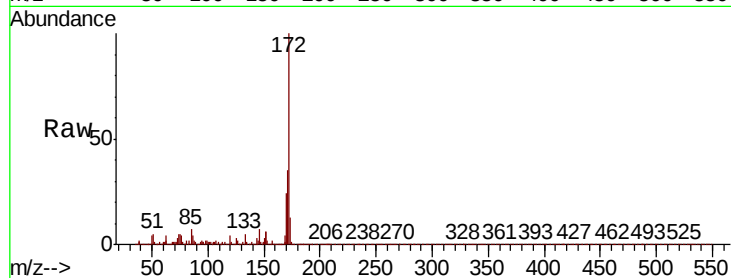
#45
2-Fluorobiphenyl
Concen: 27.664 ng
RT: 12.14 min Scan# 1709
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	27.9	41.9
170	23.8	19.0	28.4

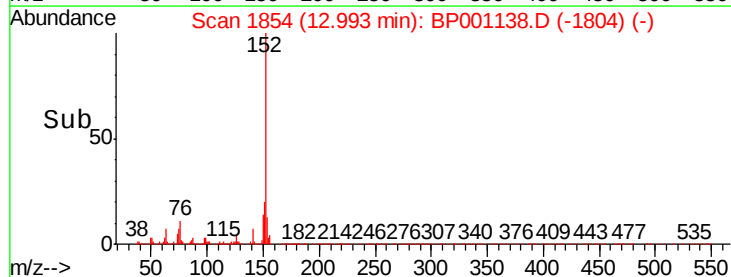
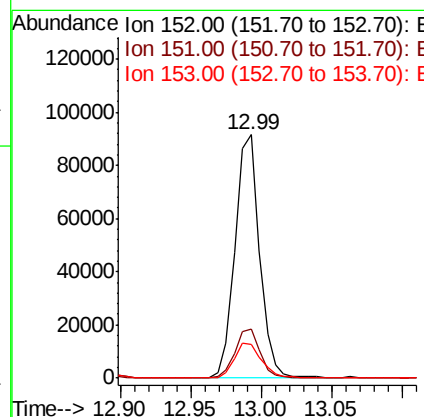
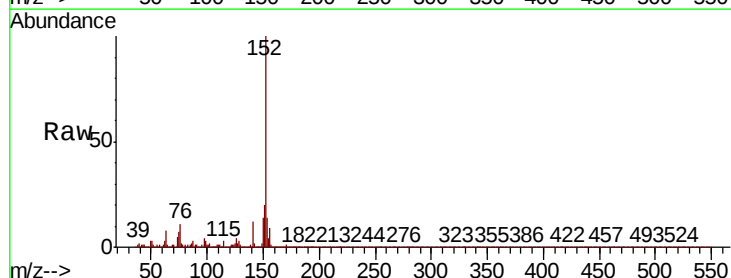
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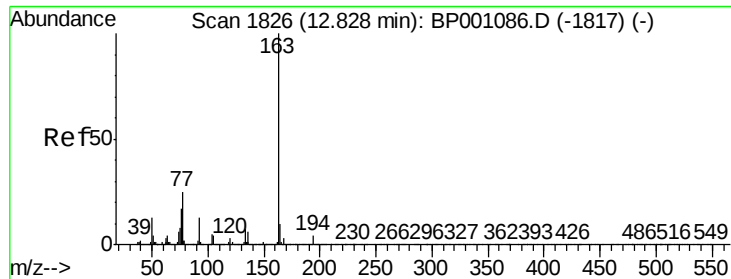
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#49
Acenaphthylene
Concen: 3.341 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.8
153	13.7	10.2	15.4





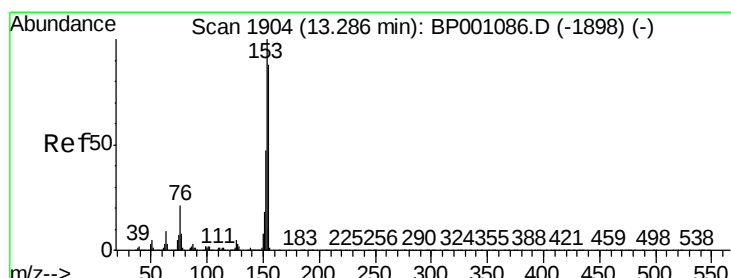
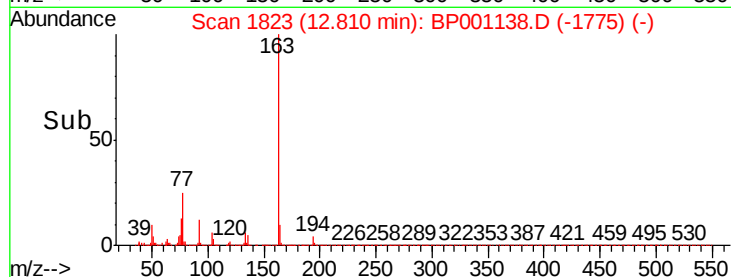
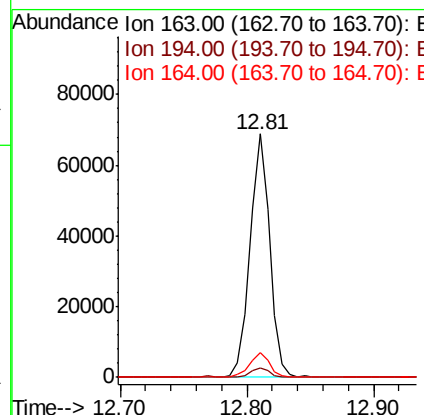
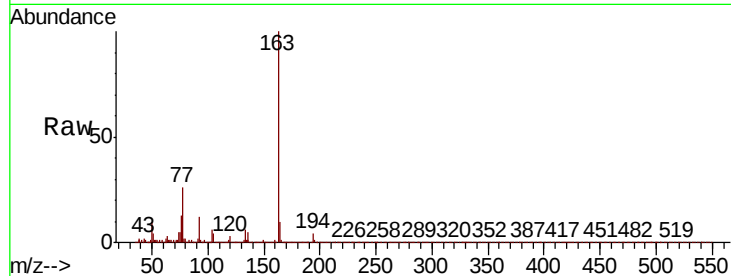
#50
Dimethylphthalate
Concen: 2.743 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Resp	Lower	Upper
163	100	73812		
194	3.8		3.1	4.7
164	10.1		8.1	12.1

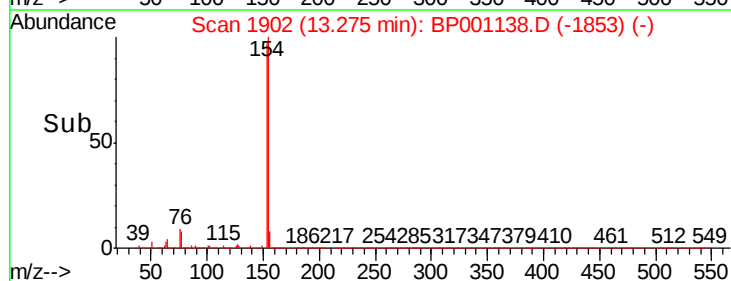
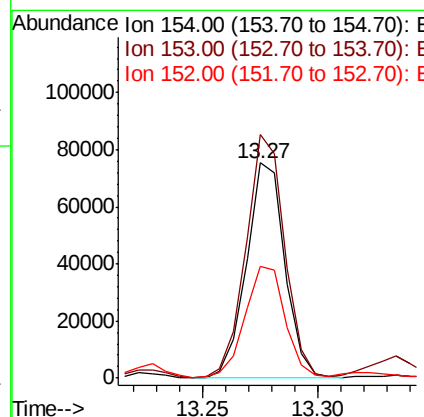
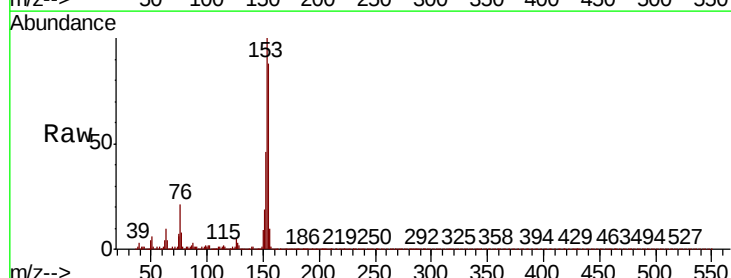
Manual Integrations
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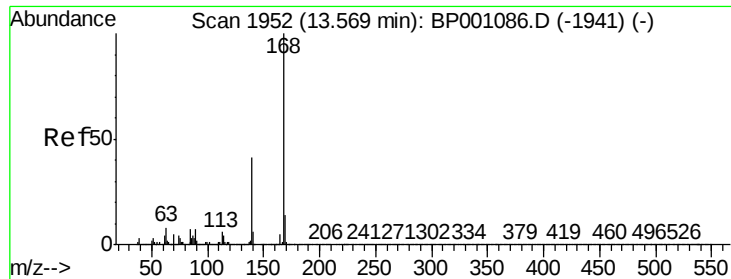
mohammad
12/4/2019 4:59:37 PM



#52
Acenaphthene
Concen: 4.351 ng
RT: 13.27 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	87143		
153	113.2		90.5	135.7
152	52.1		42.6	64.0





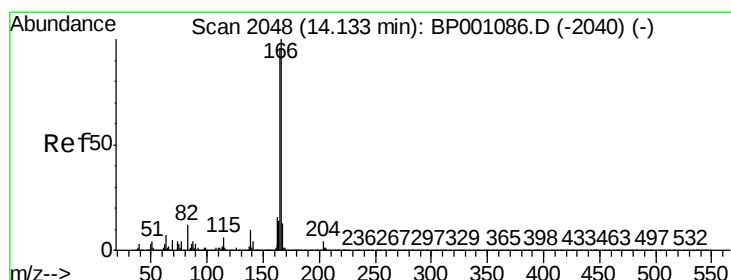
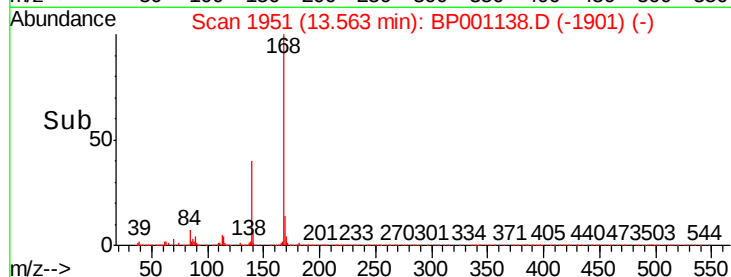
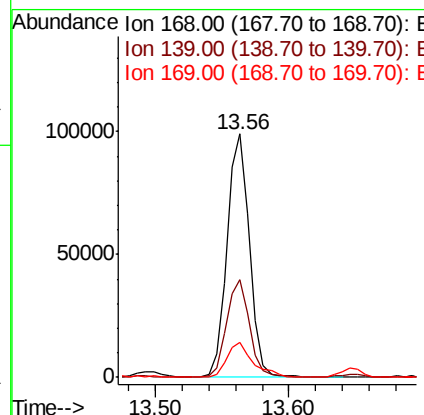
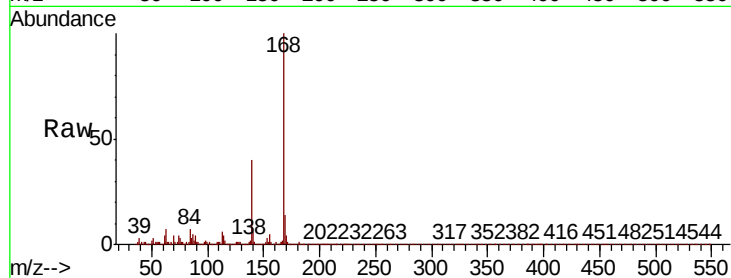
#55
Dibenzenofuran
Concen: 3.882 ng
RT: 13.56 min Scan# 1951
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampled :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.1	32.8	49.2
169	14.3	10.9	16.3

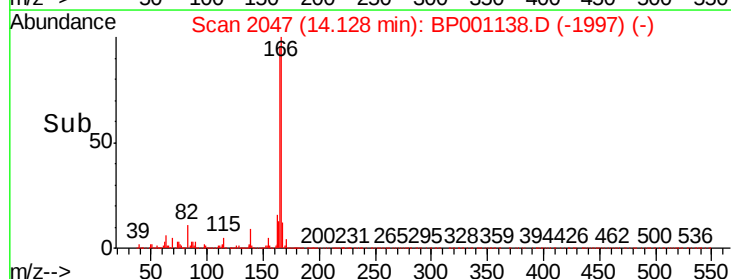
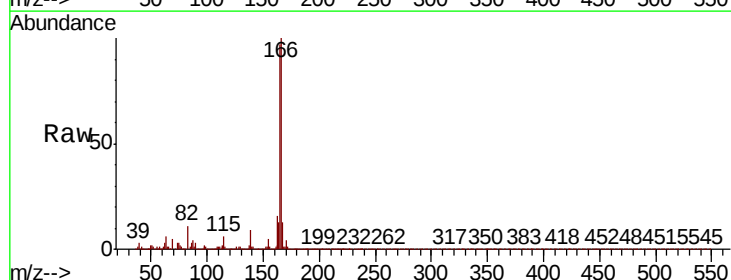
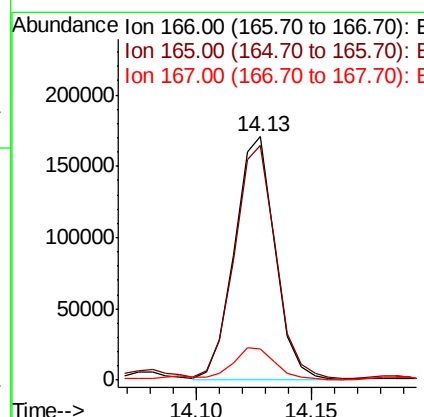
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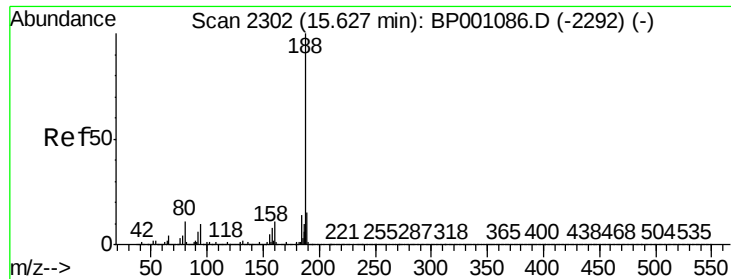
mohammad
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#58
Fluorene
Concen: 8.599 ng
RT: 14.13 min Scan# 2047
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.5	76.7	115.1
167	12.7	10.5	15.7





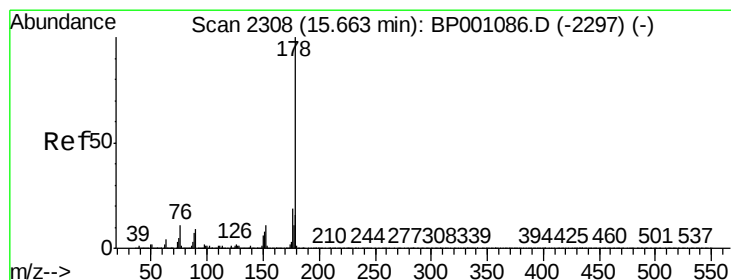
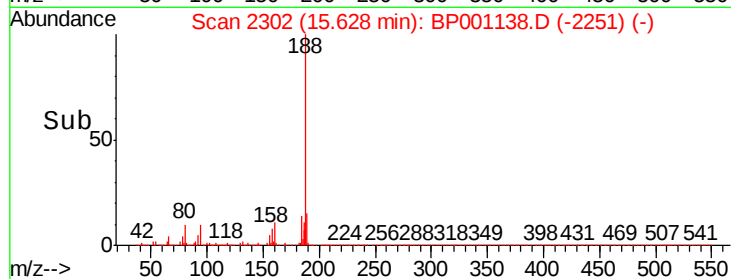
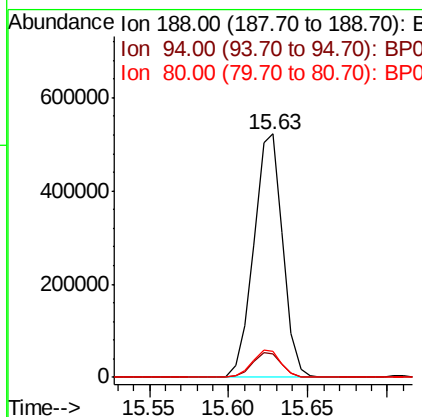
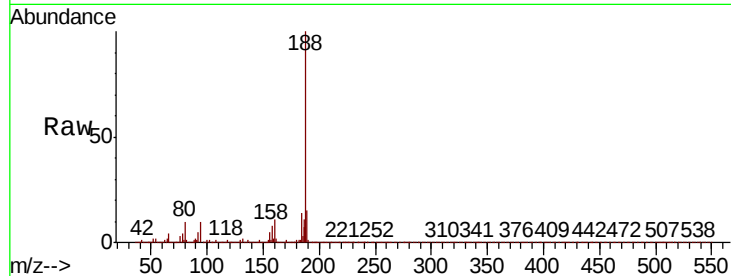
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.5	8.8	13.2

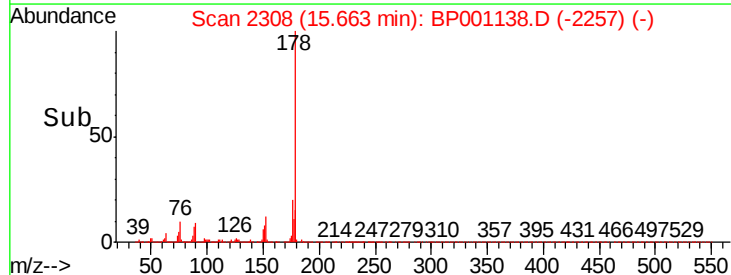
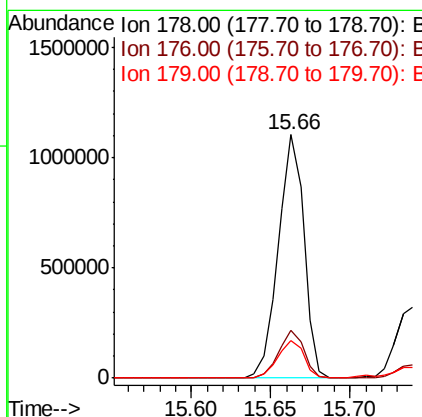
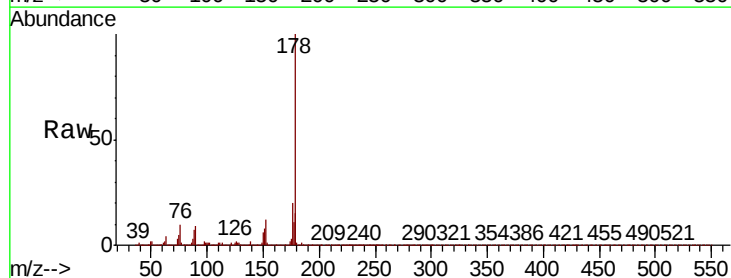
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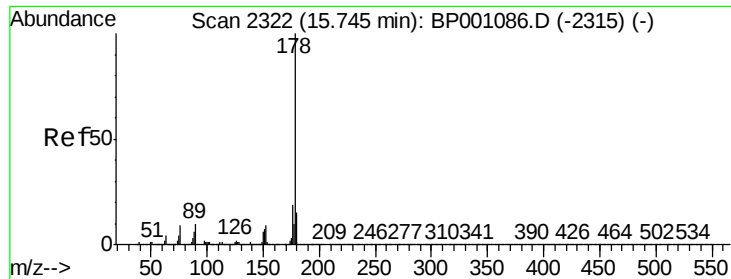
mohammad
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#71
Phenanthrene
Concen: 35.695 ng
RT: 15.66 min Scan# 2308
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.3	12.5	18.7





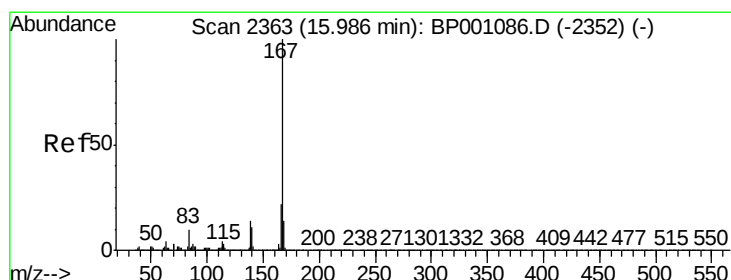
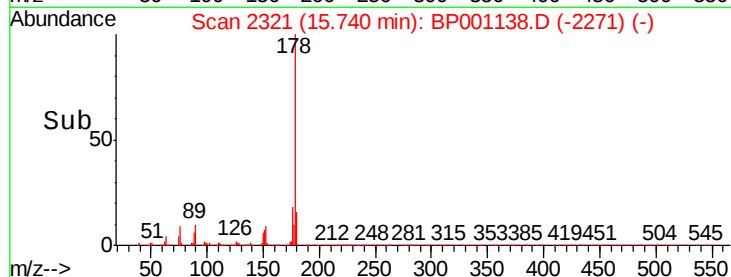
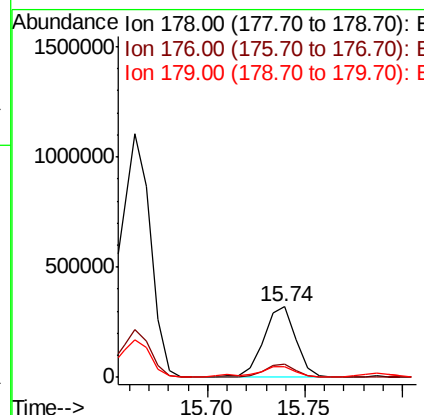
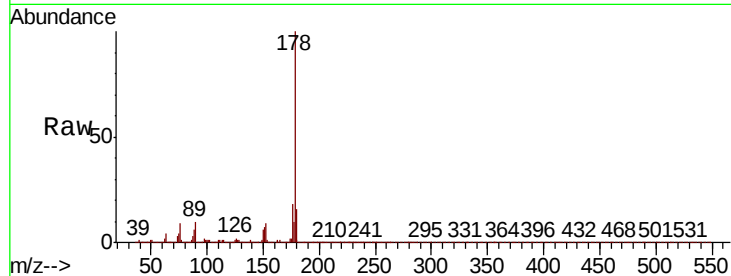
#72
 Anthracene
 Concen: 10.537 ng
 RT: 15.74 min Scan# 2321
 Delta R.T. -0.01 min
 Lab File: BP001138.D
 Acq: 02 Dec 2019 21:12

Instrument :
 BNA_P
 ClientSampleId :
 TR-05-112619

Tot Ion:	178	Resp:	360922
Ion Ratio	Lower	Upper	
178	100		
176	18.3	14.9	22.3
179	16.1	12.2	18.4

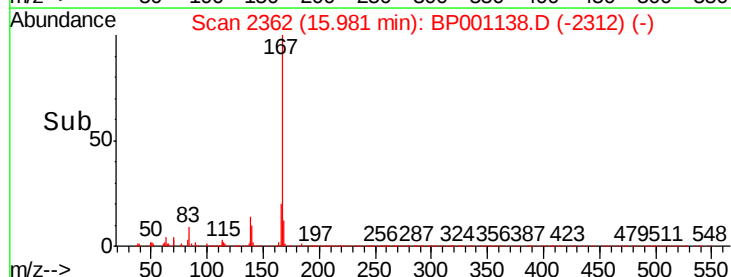
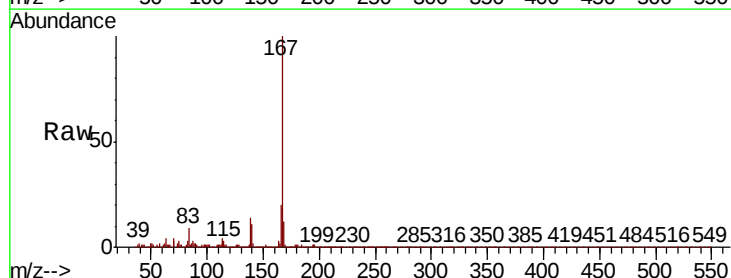
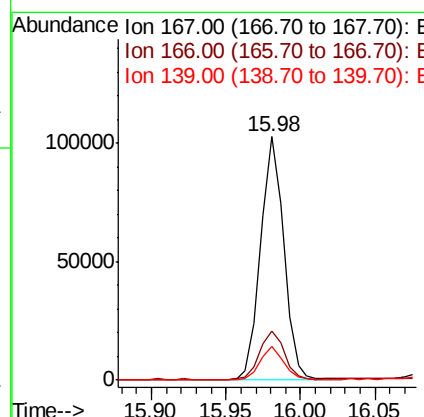
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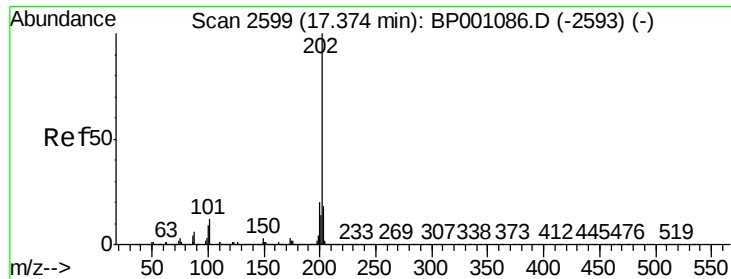
mohammad
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#73
 Carbazole
 Concen: 3.538 ng
 RT: 15.98 min Scan# 2362
 Delta R.T. -0.01 min
 Lab File: BP001138.D
 Acq: 02 Dec 2019 21:12

Tgt Ion:	167	Resp:	110271
Ion Ratio	Lower	Upper	
167	100		
166	20.1	17.2	25.8
139	13.9	11.3	16.9





#75

Fluoranthene

Concen: 27.419 ng

RT: 17.38 min Scan# 2600

Delta R.T. 0.01 min

Lab File: BP001138.D

Acq: 02 Dec 2019 21:12

Instrument :

BNA_P

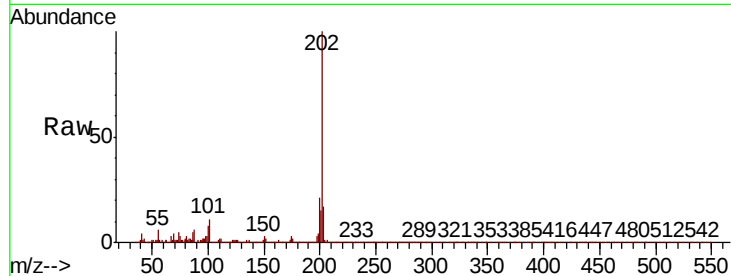
ClientSampleId :

TR-05-112619

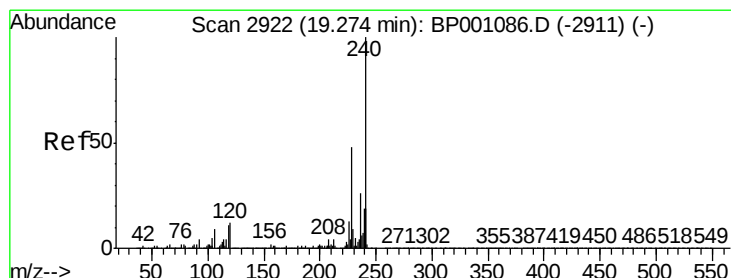
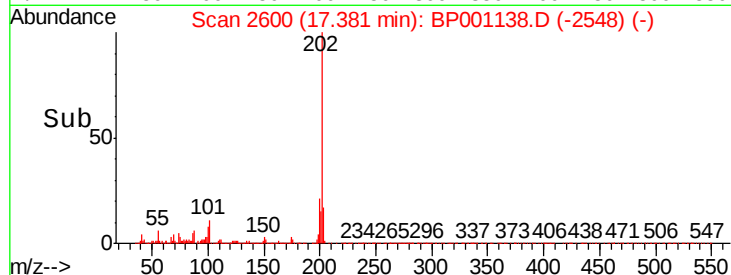
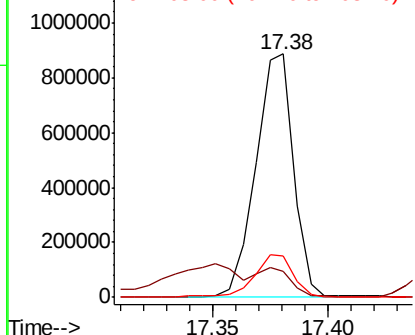
Tot Ion:	202	Resp:	1008768
Ion Ratio	Lower	Upper	
202	100		
101	10.9	0.0	32.1
203	17.2	0.0	37.8

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



#76

Chrysene-d12

Concen: 20.000 ng

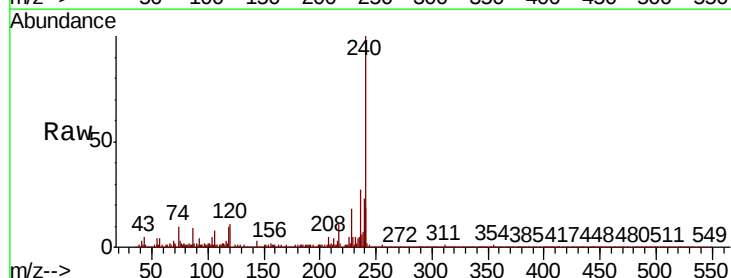
RT: 19.27 min Scan# 2922

Delta R.T. 0.00 min

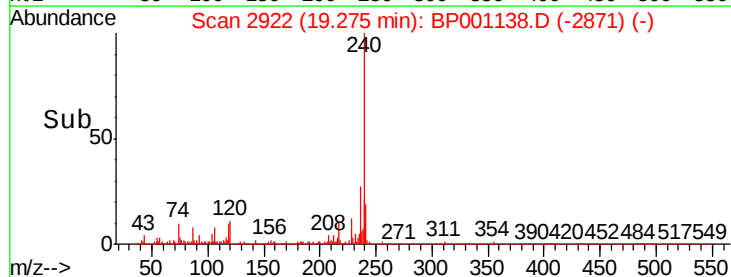
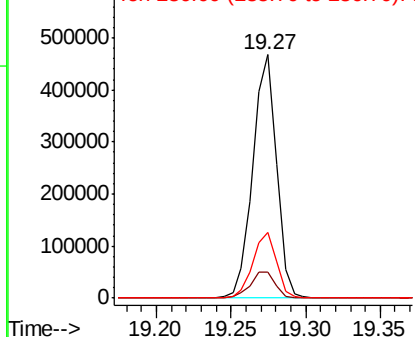
Lab File: BP001138.D

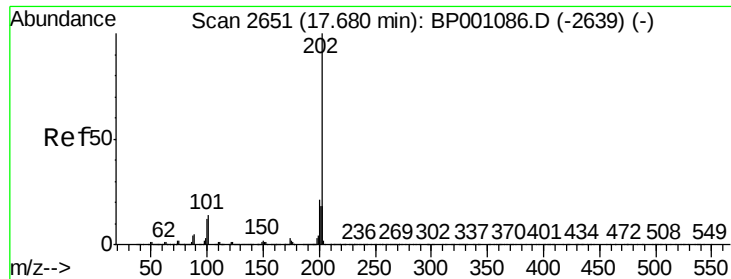
Acq: 02 Dec 2019 21:12

Tgt Ion:	240	Resp:	509595
Ion Ratio	Lower	Upper	
240	100		
120	10.7	9.5	14.3
236	26.9	20.4	30.6



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





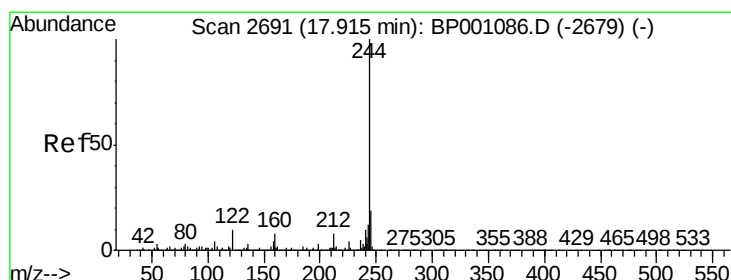
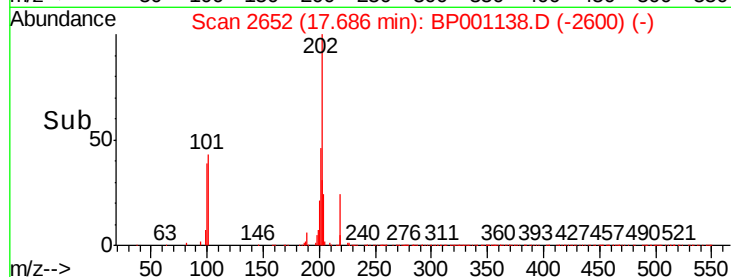
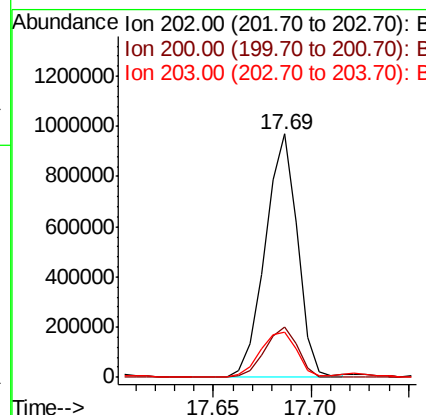
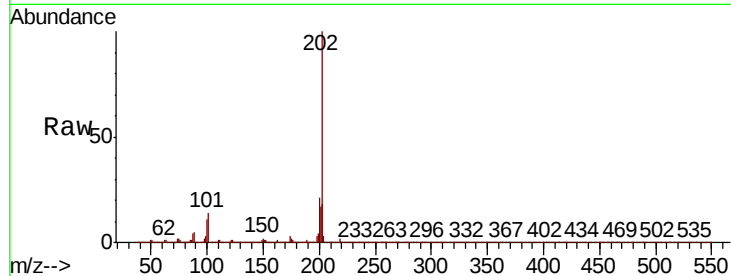
#78
Pvrene
Concen: 27.624 ng
RT: 17.69 min Scan# 2652
Delta R.T. 0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.6
203	18.4	14.1	21.1

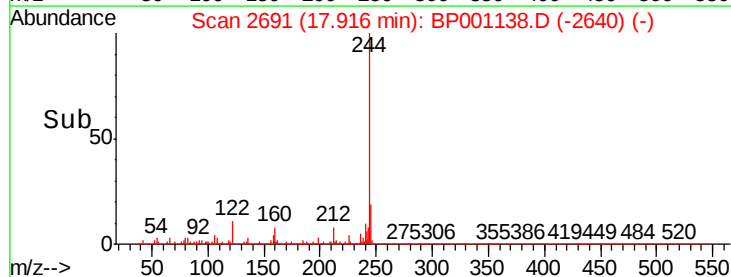
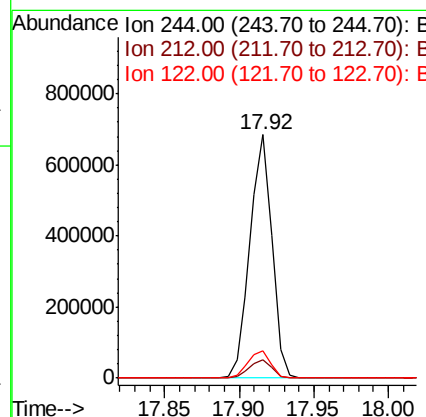
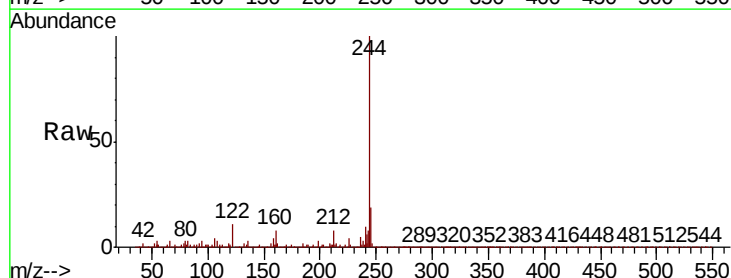
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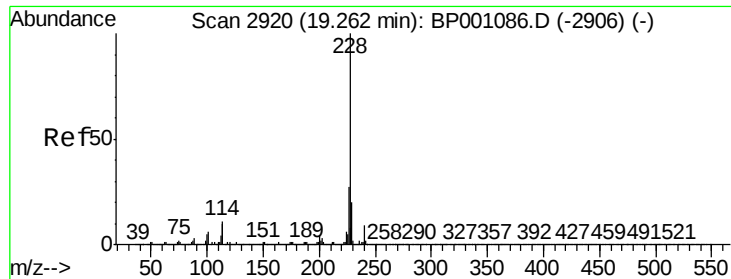
mohammad
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#79
Terphenyl-d14
Concen: 25.344 ng
RT: 17.92 min Scan# 2691
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.2
122	11.1	8.2	12.2





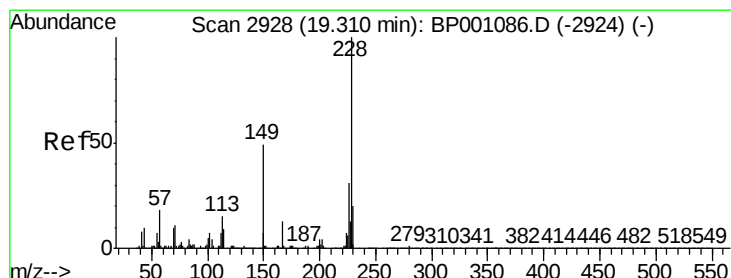
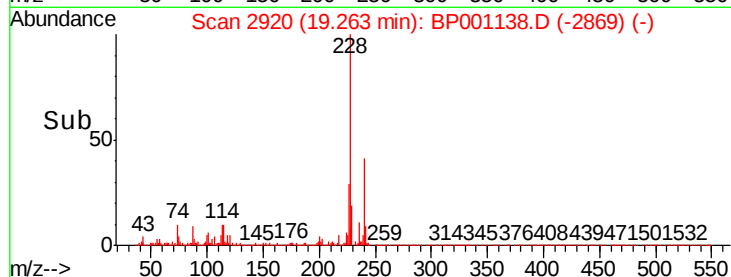
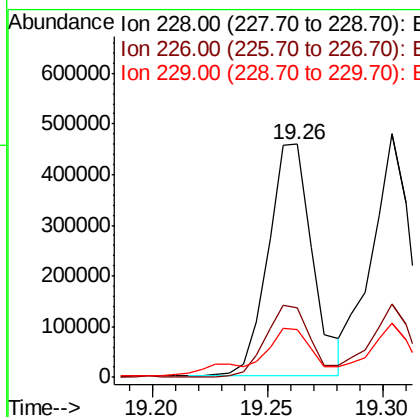
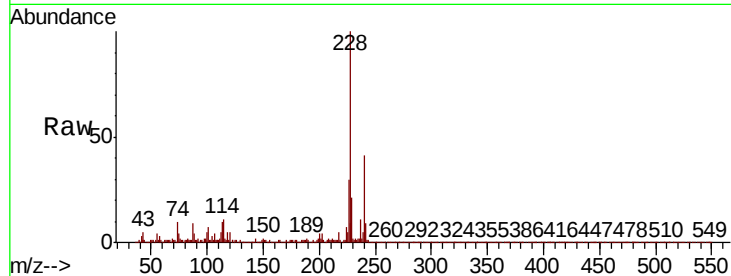
#81
Benzo(a)anthracene
Concen: 17.324 ng
RT: 19.26 min Scan# 2920
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	21.8	32.6
229	20.7	15.8	23.6

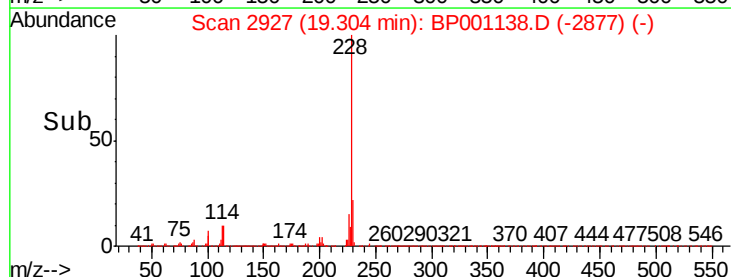
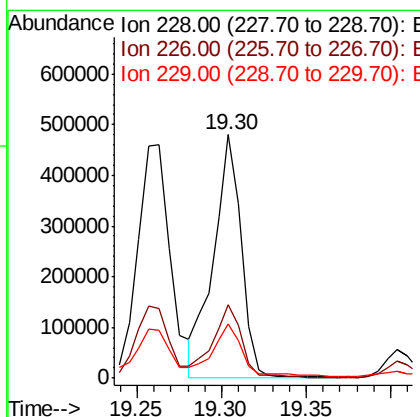
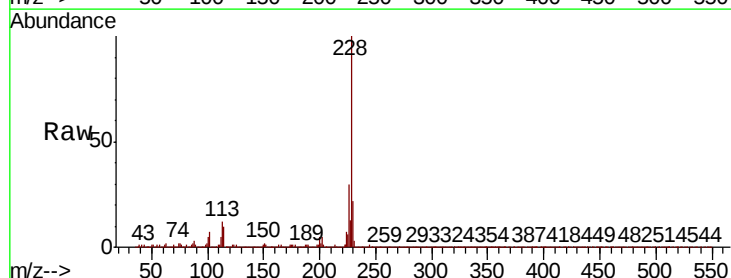
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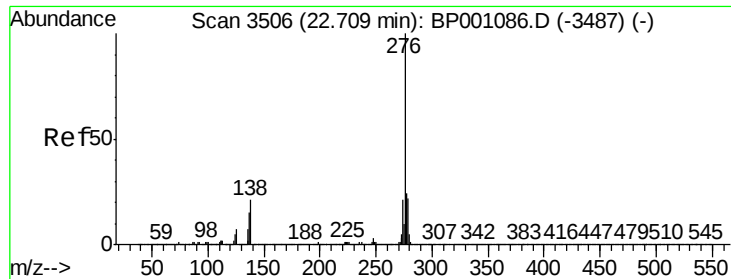
mohammad
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#83
Chrysene
Concen: 17.320 ng
RT: 19.30 min Scan# 2927
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.4	36.6
229	22.1	15.7	23.5





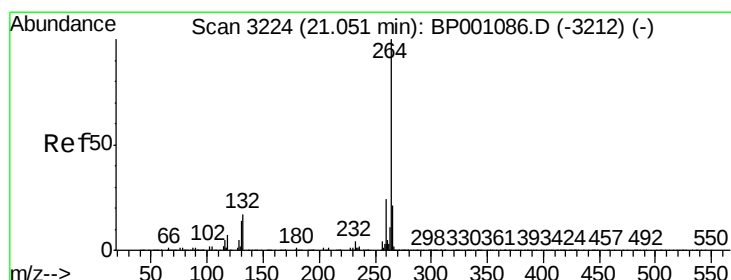
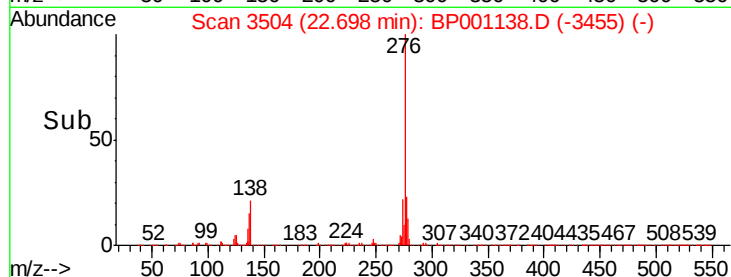
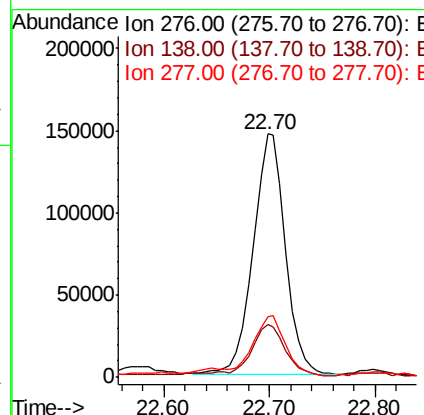
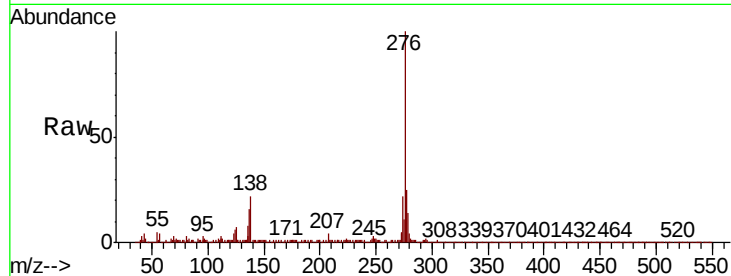
#86
Indeno(1,2,3-cd)pyrene
Concen: 8.353 ng
RT: 22.70 min Scan# 3504
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion:	276	Resp:	311448
Ion Ratio	Lower	Upper	
276	100		
138	23.4	20.6	30.8
277	25.3	20.0	30.0

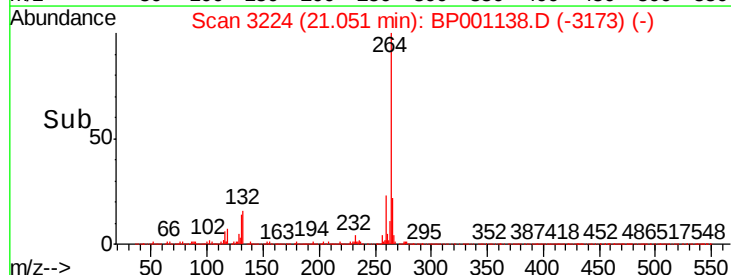
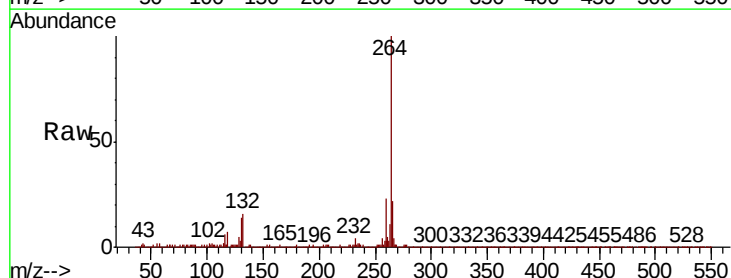
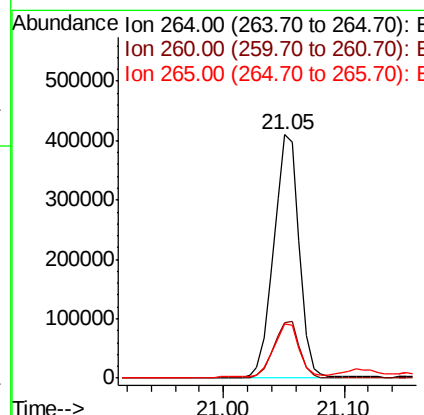
Manual Integrations
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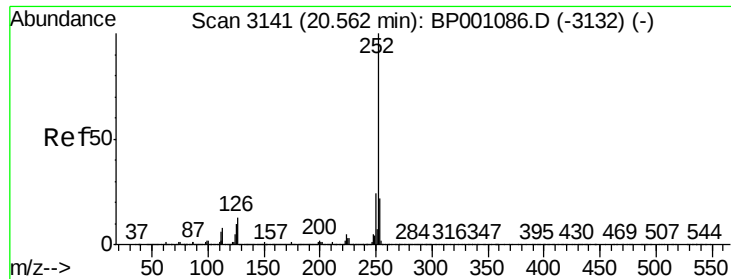
mohammad
12/4/2019 4:59:37 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 21.05 min Scan# 3224
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion:	264	Resp:	601356
Ion Ratio	Lower	Upper	
264	100		
260	22.8	18.8	28.2
265	22.3	16.9	25.3





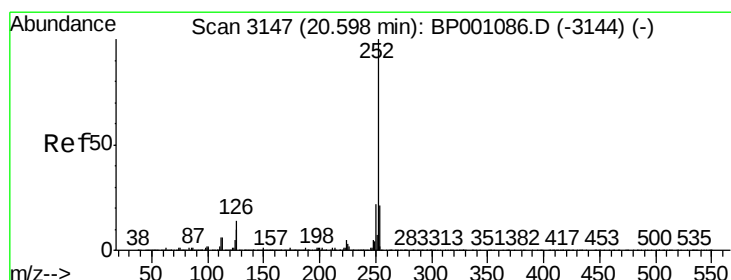
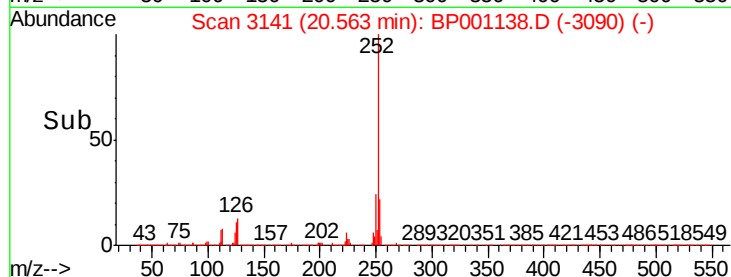
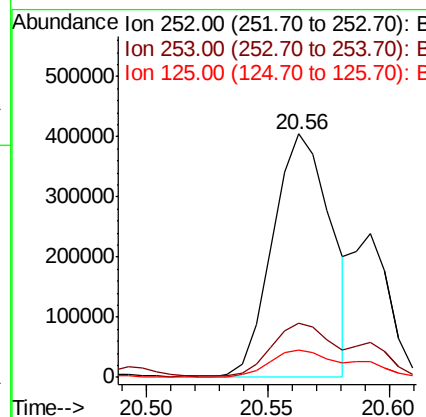
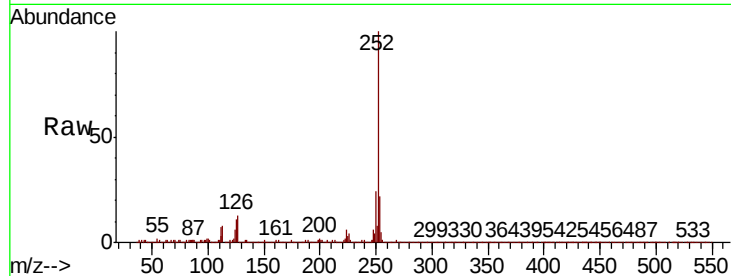
#88
Benzo(b)fluoranthene
Concen: 18.511 ng m
RT: 20.56 min Scan# 3141
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampled :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	11.1	8.1	12.1

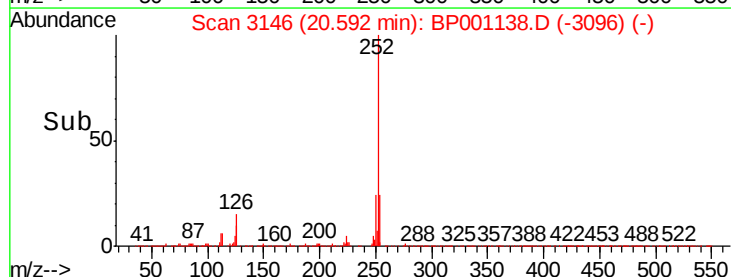
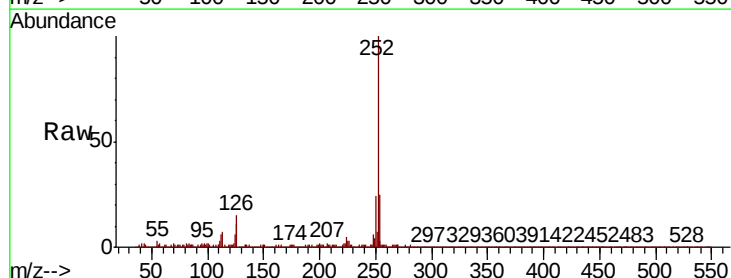
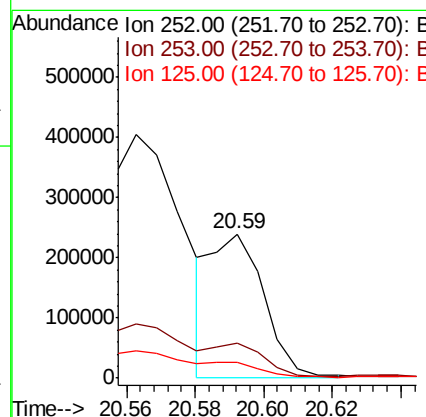
Manual Integrations
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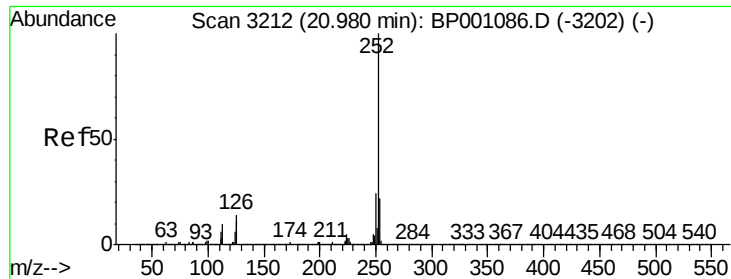
mohammad
12/4/2019 4:59:37 PM



#89
Benzo(k)fluoranthene
Concen: 7.137 ng m
RT: 20.59 min Scan# 3146
Delta R.T. -0.01 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.1	25.7
125	10.5	8.2	12.2





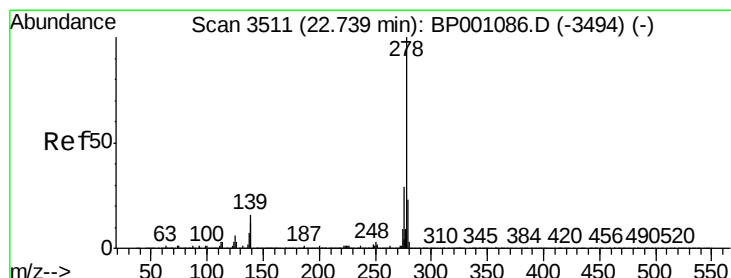
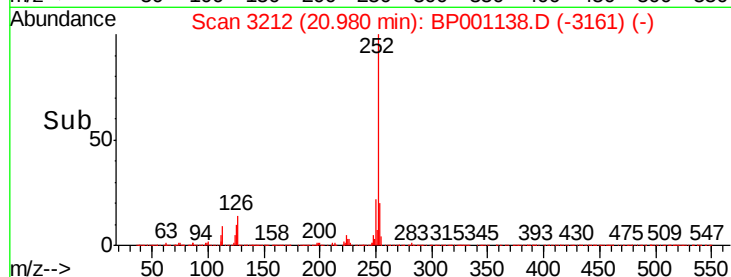
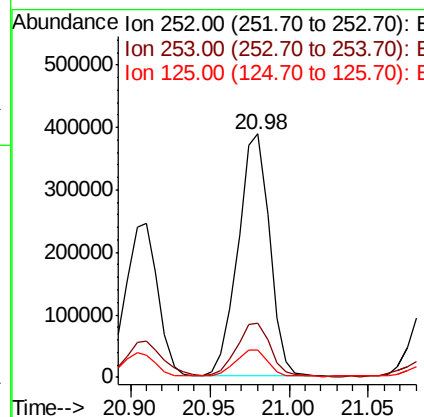
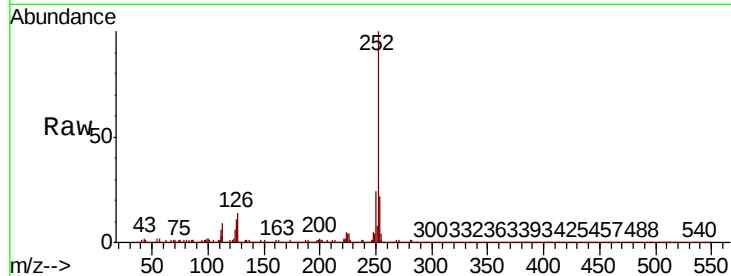
#90
Benzo(a)pyrene
Concen: 15.752 ng
RT: 20.98 min Scan# 3212
Delta R.T. 0.00 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Instrument :
BNA_P
ClientSampleId :
TR-05-112619

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	11.3	8.7	13.1

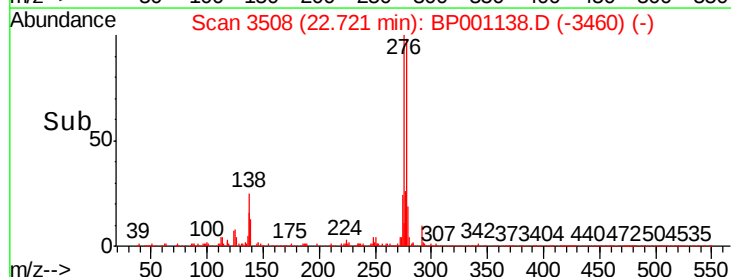
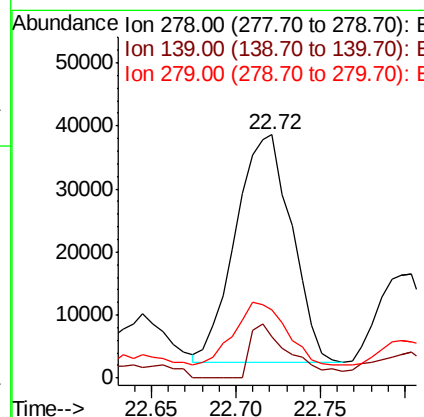
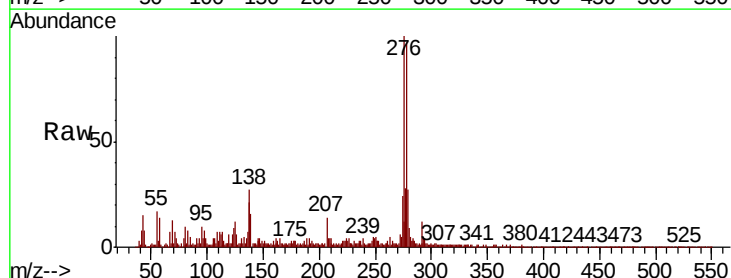
Manual Integrations
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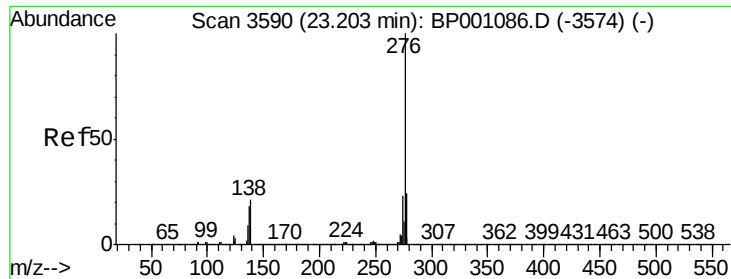
mohammad
12/4/2019 4:59:37 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.519 ng
RT: 22.72 min Scan# 3508
Delta R.T. -0.02 min
Lab File: BP001138.D
Acq: 02 Dec 2019 21:12

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.9	13.0	19.4
279	28.0	18.7	28.1





#92
 Benzo(a,h,i)perylene
 Concen: 8.783 ng
 RT: 23.19 min Scan# 3588
 Delta R.T. -0.01 min
 Lab File: BP001138.D
 Acq: 02 Dec 2019 21:12

Instrument :
 BNA_P
 ClientSampleId :
 TR-05-112619

Tot Ion:	276	Resp:	287156
Ion Ratio		Lower	Upper
276	100		
277	23.2	19.2	28.8
138	20.9	17.2	25.8

Manual Integrations
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