

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051319\
 Data File : BM020323.D
 Acq On : 13 May 2019 19:22
 Operator : JU/SJ
 Sample : K2808-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RT-2683-RT-5156

Manual Integrations
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mohammad
 5/14/2019 11:12:03 PM

Quant Time: May 14 04:24:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	46837	20.00	ng	-0.04
21) Naphthalene-d8	10.55	136	148606	20.00	ng	-0.04
39) Acenaphthene-d10	14.40	164	89390	20.00	ng	-0.03
64) Phenanthrene-d10	17.16	188	205481	20.00	ng	-0.02
76) Chrysene-d12	21.35	240	216924	20.00	ng	-0.02
87) Perylene-d12	23.63	264	260320	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	313493	109.41	ng	-0.02
7) Phenol-d6	6.93	99	402876	102.92	ng	-0.02
23) Nitrobenzene-d5	8.92	82	271391	72.10	ng	-0.04
42) 2,4,6-Tribromophenol	15.90	330	157507	113.52	ng	-0.02
45) 2-Fluorobiphenyl	13.02	172	510189	70.22	ng	-0.04
79) Terphenyl-d14	19.79	244	799205	64.26	ng	-0.02
Target Compounds						
50) Dimethylphthalate	13.86	163	62326	8.204	ng	Qvalue 98
52) Acenaphthene	14.47	154	96071	17.819	ng	98
55) Dibenzofuran	14.80	168	117715	12.944	ng	95
58) Fluorene	15.46	166	182009	24.370	ng	100
71) Phenanthrene	17.20	178	1074499	94.730	ng	100
72) Anthracene	17.29	178	243567	21.477	ng	99
73) Carbazole	17.57	167	30794	3.009	ng	97
75) Fluoranthene	19.22	202	1151628	80.245	ng	100
78) Pyrene	19.59	202	873402	59.970	ng	99
81) Benzo(a)anthracene	21.33	228	430600	28.305	ng	99
83) Chrysene	21.39	228	417614	28.305	ng	97
86) Indeno(1,2,3-cd)pyrene	25.94	276	96304	5.488	ng	# 100
88) Benzo(b)fluoranthene	22.94	252	359916m	20.937	ng	
89) Benzo(k)fluoranthene	22.98	252	135659m	8.651	ng	
90) Benzo(a)pyrene	23.53	252	222774	14.267	ng	96
91) Dibenzo(a,h)anthracene	25.95	278	36668	2.258	ng	# 94
92) Benzo(a,h,i)perylene	26.66	276	88278	5.726	ng	95

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

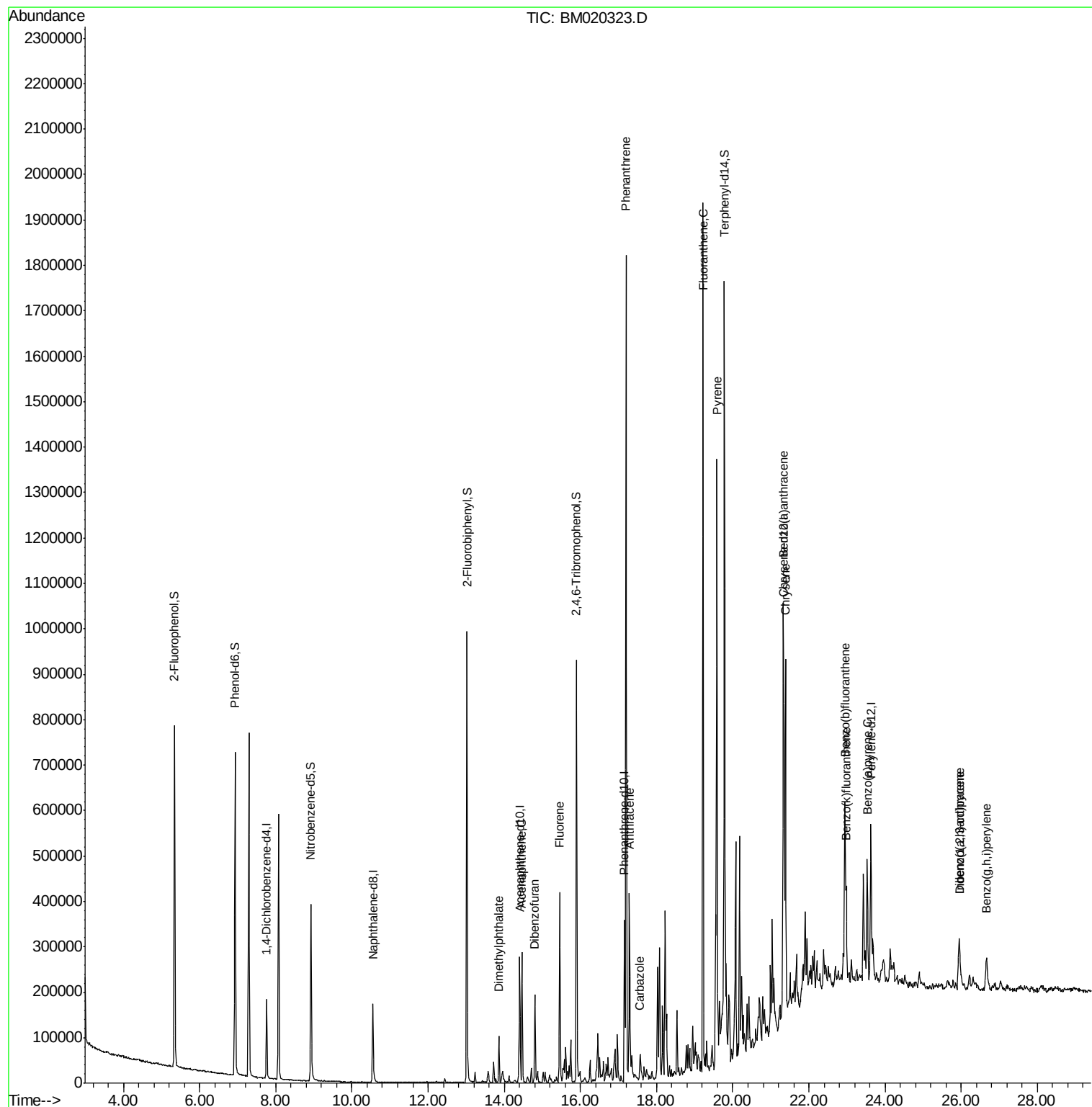
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051319\
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ALS Vial : 14 Sample Multiplier: 1

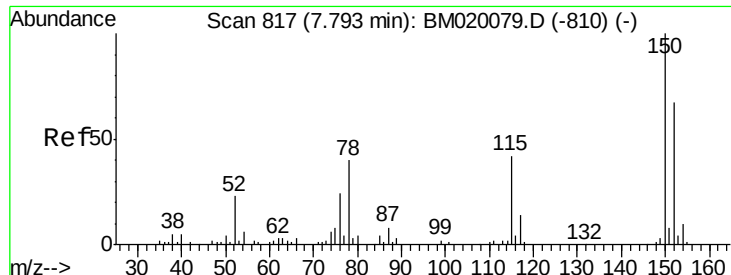
Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

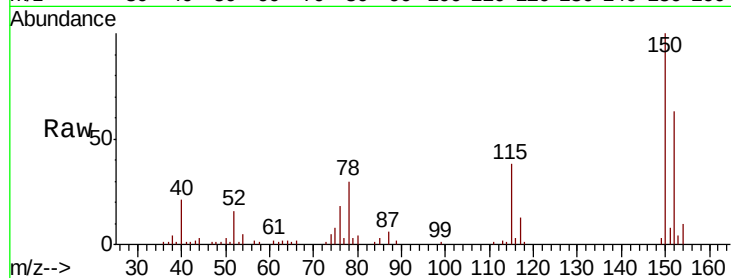
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.76 min Scan# 811
Delta R.T. -0.04 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	119.8	179.8
115	60.1	50.8	76.2

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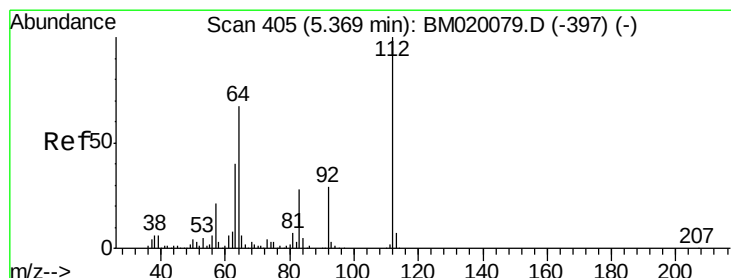
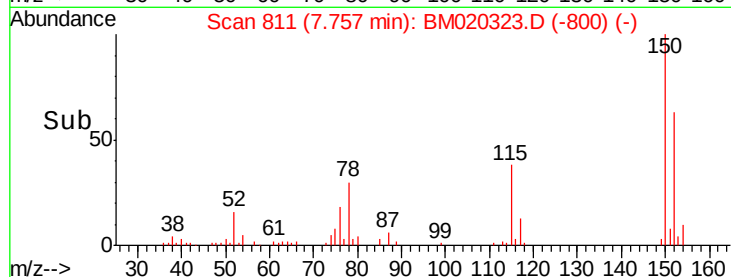
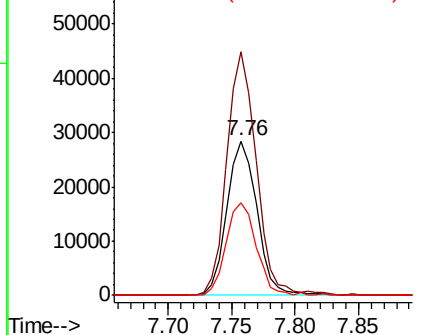


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

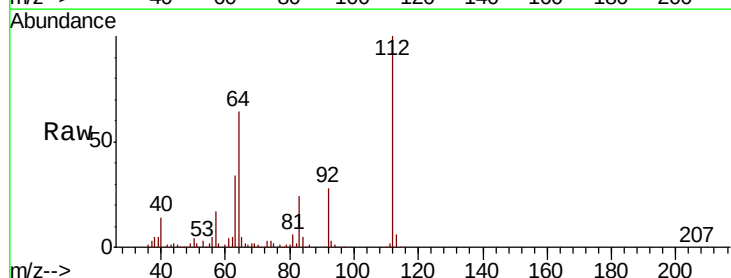
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 109.408 ng
RT: 5.35 min Scan# 401
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	53.8	80.6
63	34.1	32.3	48.5

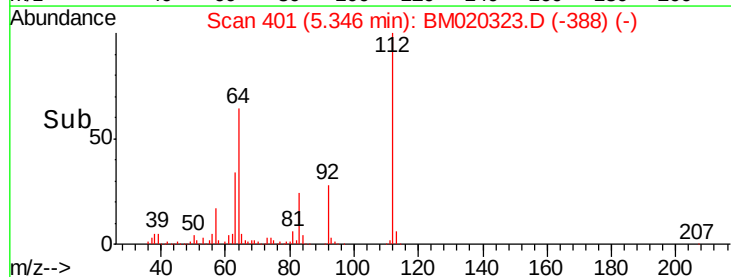
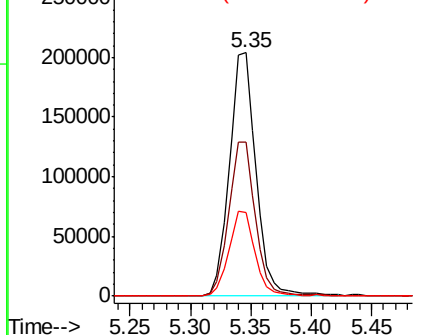


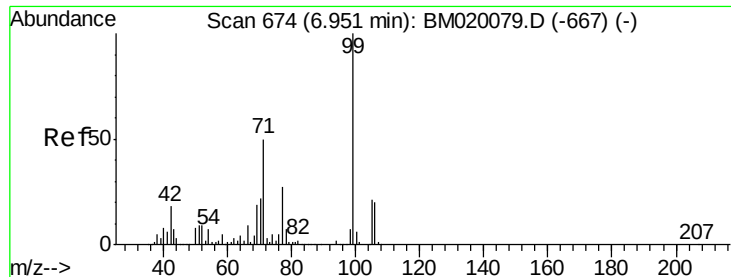
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 102.919 ng

RT: 6.93 min Scan# 670

Delta R.T. -0.02 min

Lab File: BM020323.D

Acq: 13 May 2019 19:22

Instrument :

BNA_M

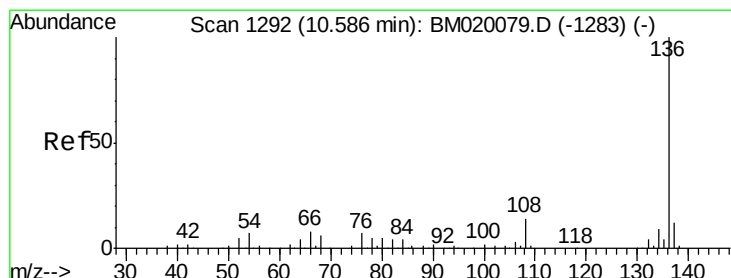
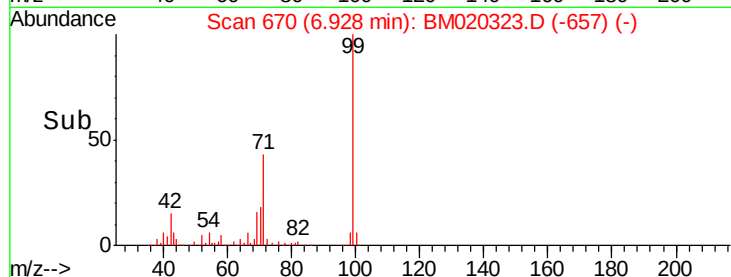
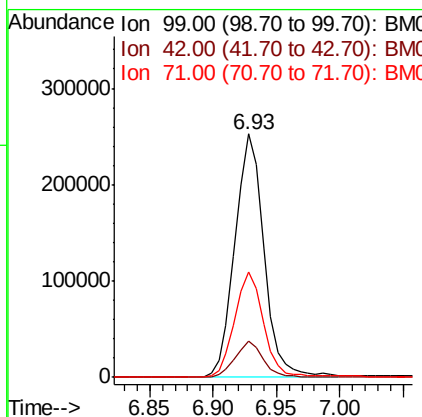
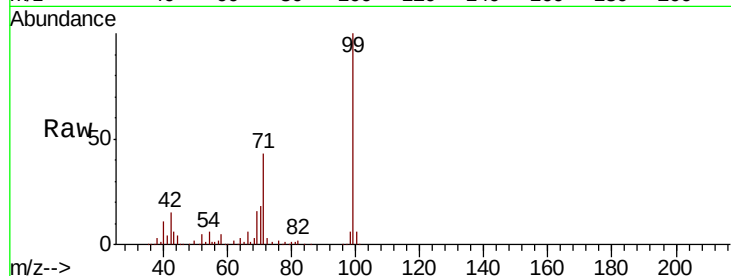
ClientSampleId :

RT-2683-RT-5156

Tot Ion:	99	Resp:	402876
Ion Ratio	Lower	Upper	
99	100		
42	15.0	14.2	21.2
71	43.4	40.3	60.5

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#21

Naphthalene-d8

Concen: 20.000 ng

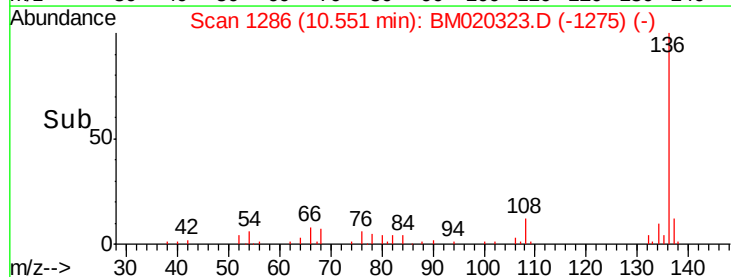
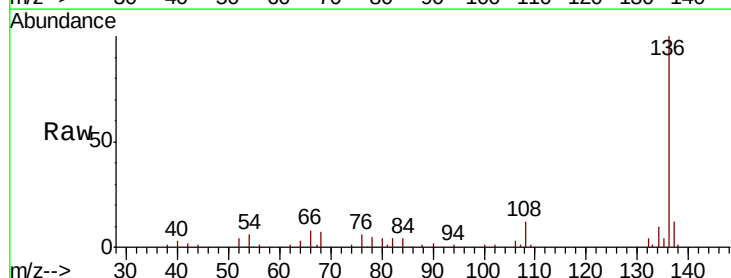
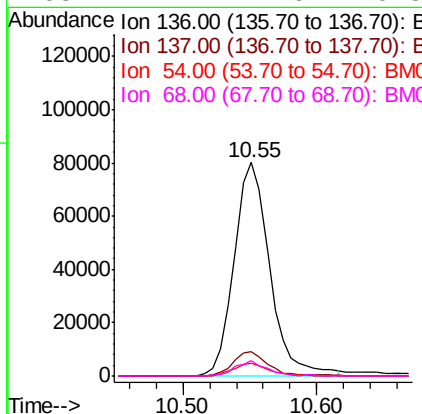
RT: 10.55 min Scan# 1286

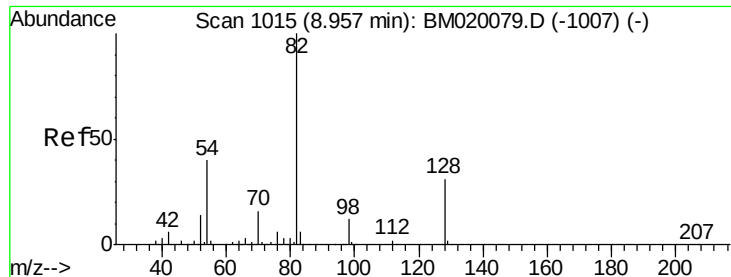
Delta R.T. -0.04 min

Lab File: BM020323.D

Acq: 13 May 2019 19:22

Tgt Ion:	136	Resp:	148606
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.6	14.4
54	6.1	5.5	8.3
68	7.1	4.6	6.8#





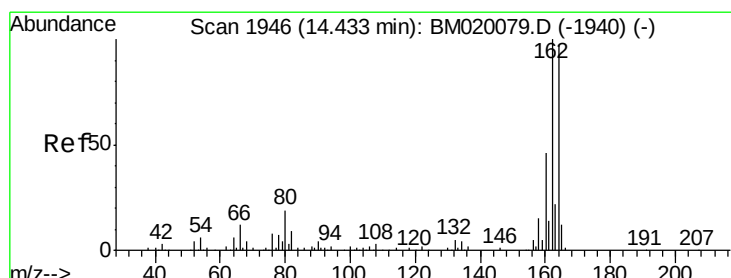
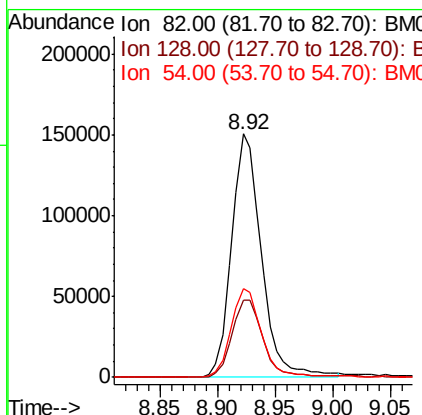
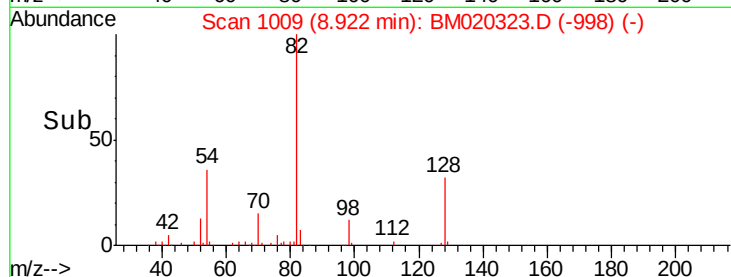
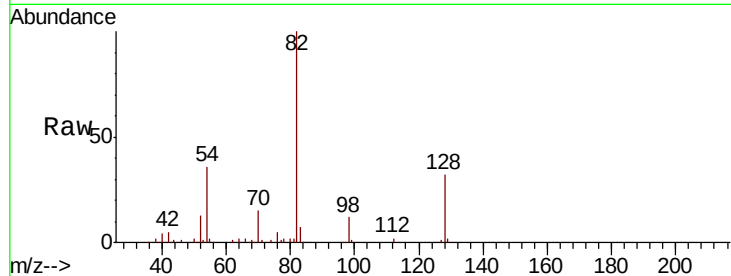
#23
Nitrobenzene-d5
Concen: 72.100 ng
RT: 8.92 min Scan# 1009
Delta R.T. -0.04 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
82	100		
128	31.9	25.2	37.8
54	36.2	31.9	47.9

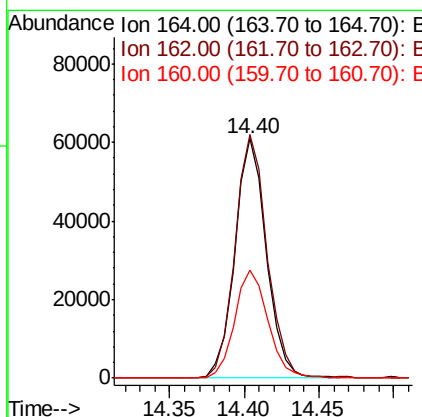
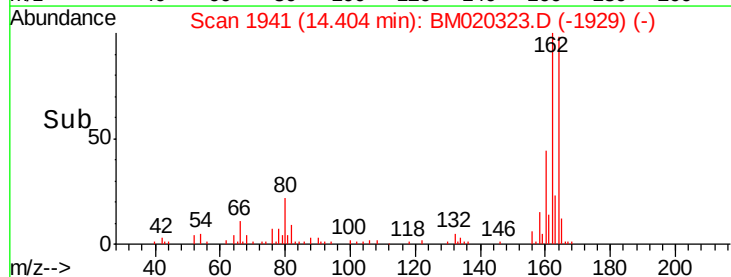
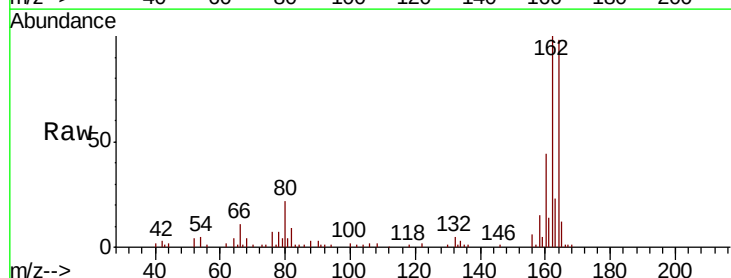
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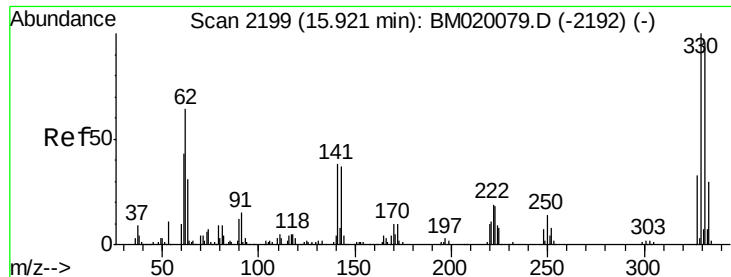
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.40 min Scan# 1941
Delta R.T. -0.03 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.2	123.2
160	45.1	37.6	56.4





#42

2,4,6-Tribromophenol

Concen: 113.518 ng

RT: 15.90 min Scan# 2195

Delta R.T. -0.02 min

Lab File: BM020323.D

Acq: 13 May 2019 19:22

Instrument :

BNA_M

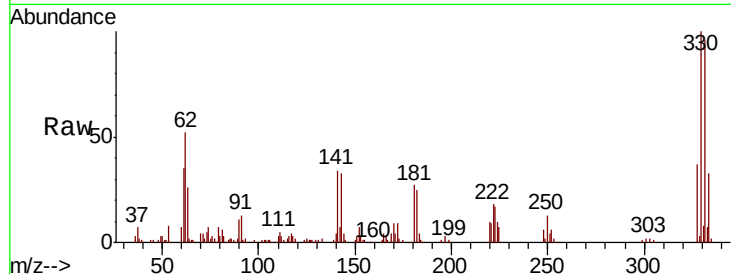
ClientSampleId :

RT-2683-RT-5156

Tot Ion:	330	Resp:	157507
Ion Ratio	Lower	Upper	
330	100		
332	96.9	76.8	115.2
141	32.1	29.2	43.8

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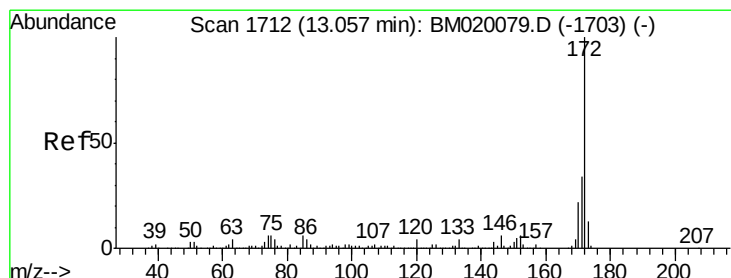
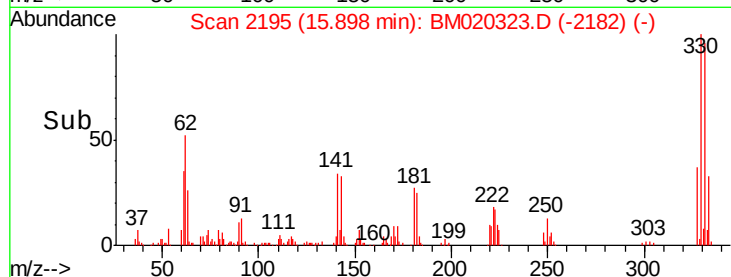
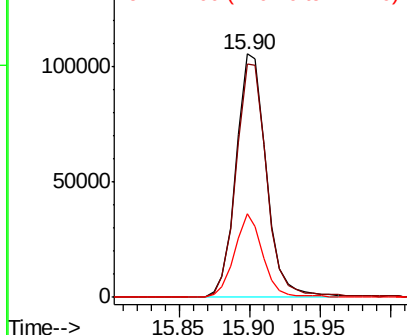


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 70.222 ng

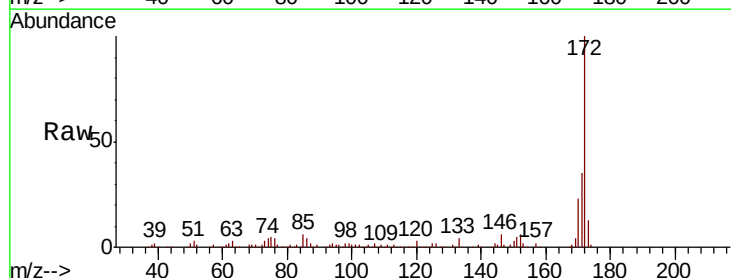
RT: 13.02 min Scan# 1706

Delta R.T. -0.04 min

Lab File: BM020323.D

Acq: 13 May 2019 19:22

Tgt Ion:	172	Resp:	510189
Ion Ratio	Lower	Upper	
172	100		
171	35.3	27.3	40.9
170	23.3	17.9	26.9

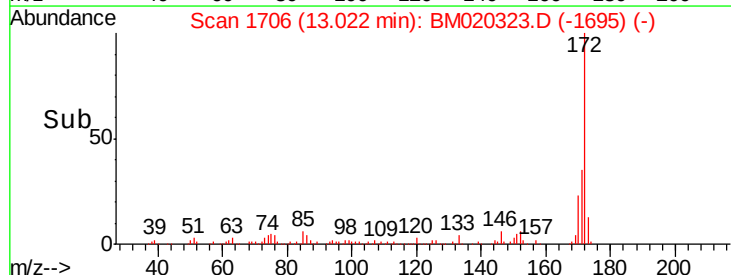
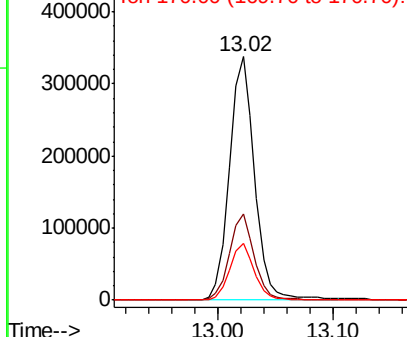


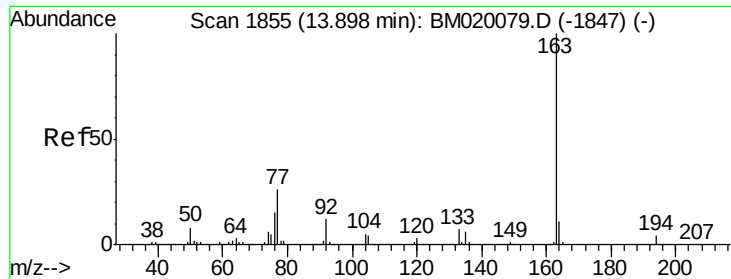
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





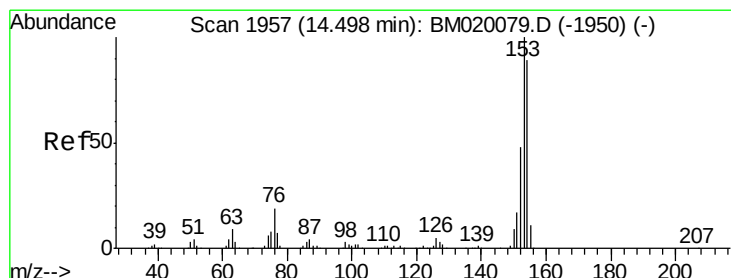
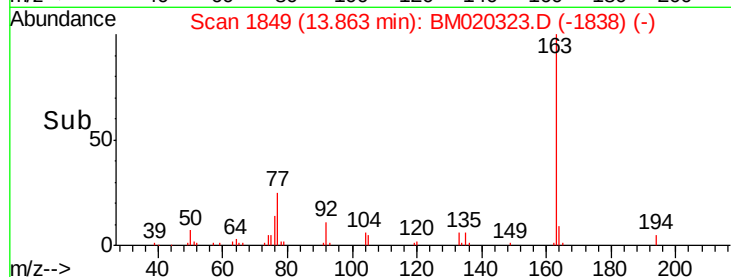
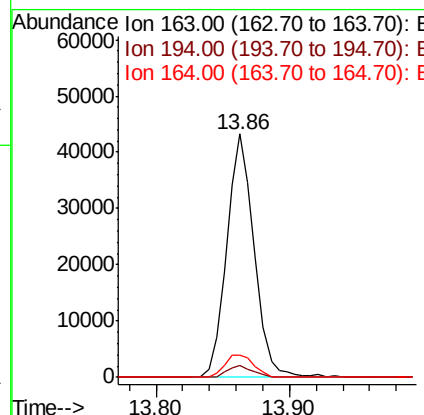
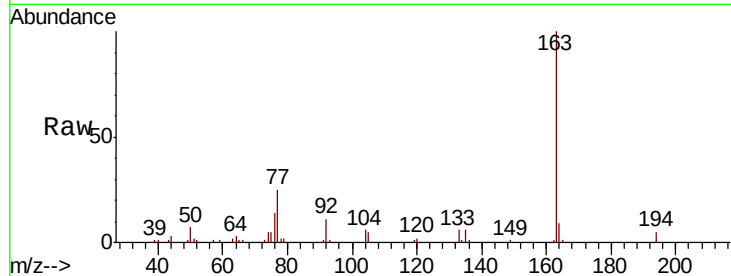
#50
Dimethylphthalate
Concen: 8.204 ng
RT: 13.86 min Scan# 1849
Delta R.T. -0.04 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion:	163	Resp:	62326
Ion Ratio	Lower	Upper	
163	100		
194	4.7	3.6	5.4
164	9.4	8.4	12.6

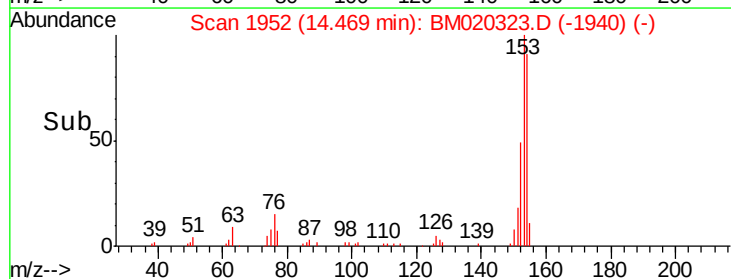
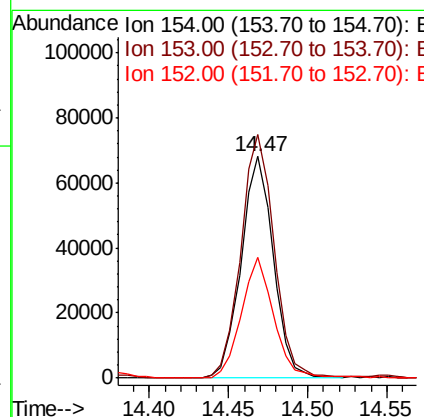
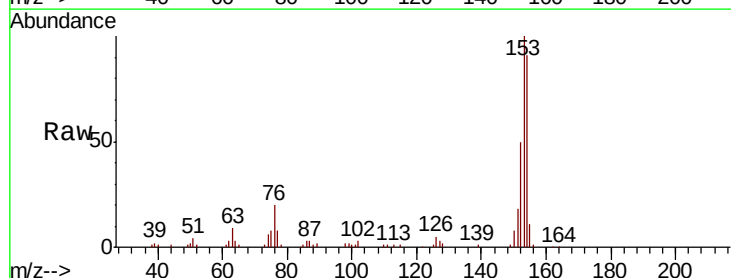
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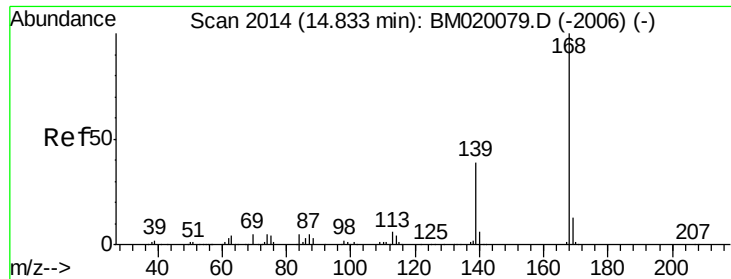
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#52
Acenaphthene
Concen: 17.819 ng
RT: 14.47 min Scan# 1952
Delta R.T. -0.03 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion:	154	Resp:	96071
Ion Ratio	Lower	Upper	
154	100		
153	110.0	90.2	135.2
152	54.5	43.0	64.4





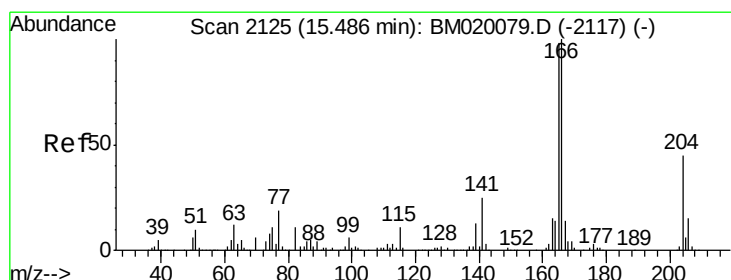
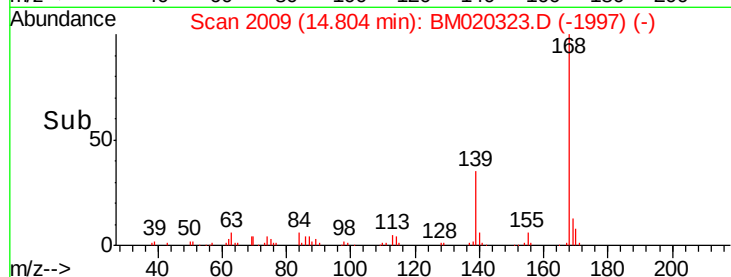
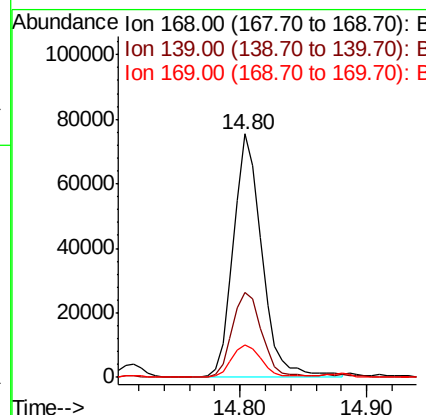
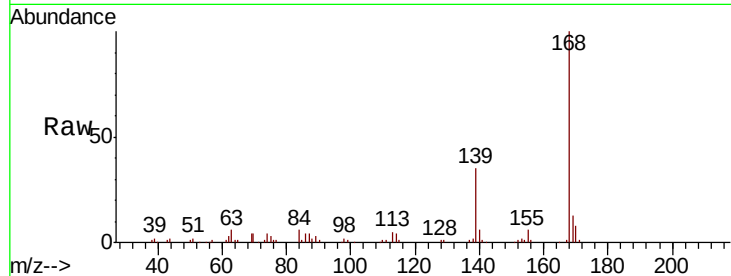
#55
Dibenzenofuran
Concen: 12.944 ng
RT: 14.80 min Scan# 2009
Delta R.T. -0.03 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.9	31.1	46.7
169	13.2	10.6	16.0

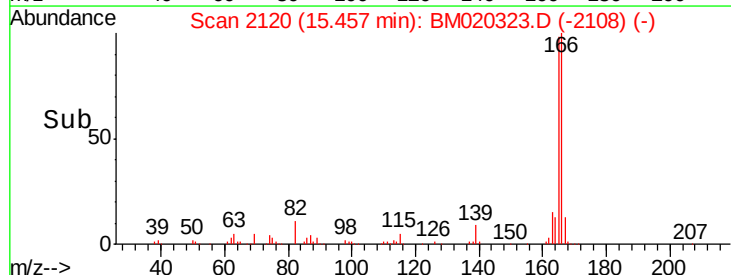
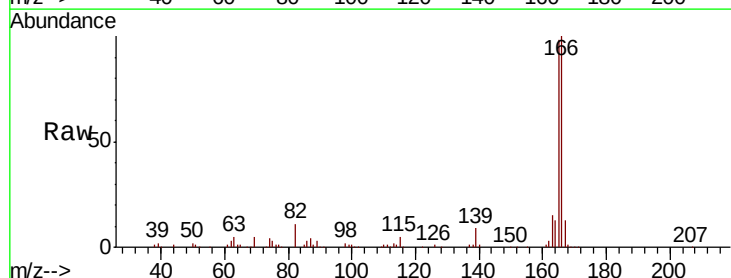
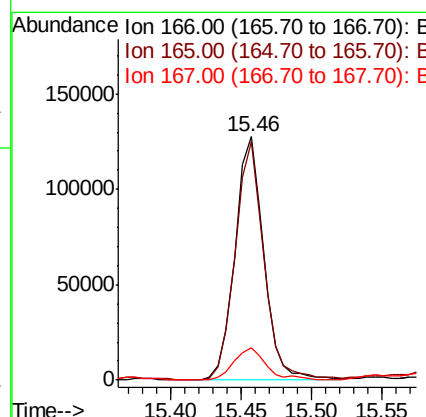
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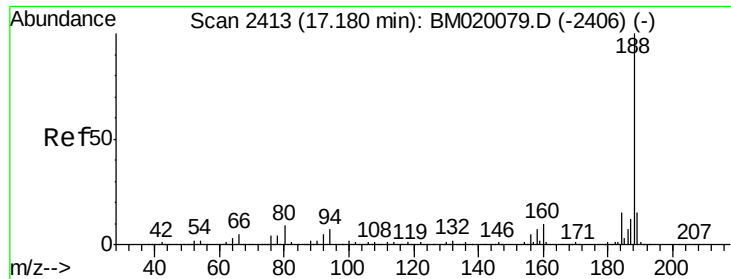
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#58
Fluorene
Concen: 24.370 ng
RT: 15.46 min Scan# 2120
Delta R.T. -0.03 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.2
167	13.3	11.0	16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.16 min Scan# 2409

Delta R.T. -0.02 min

Lab File: BM020323.D

Acq: 13 May 2019 19:22

Instrument :

BNA_M

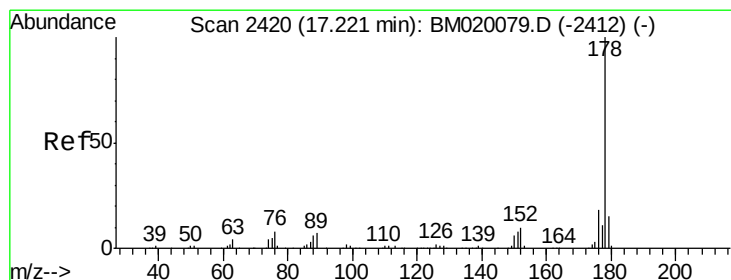
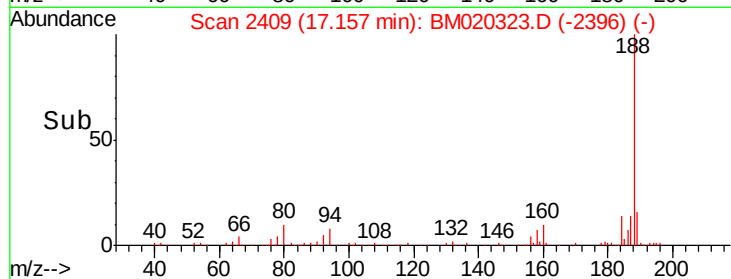
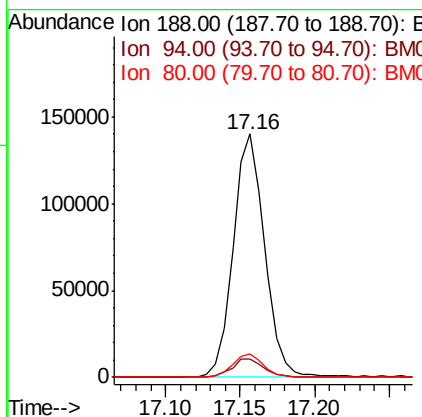
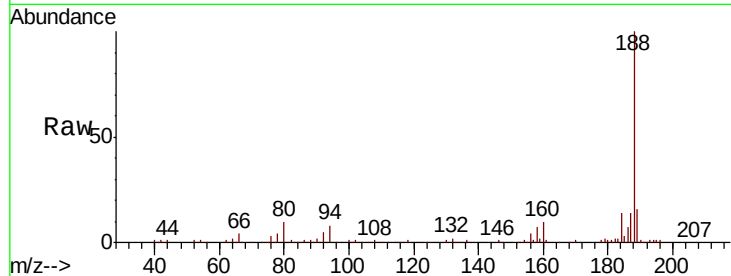
ClientSampleId :

RT-2683-RT-5156

Tot Ion:	188	Resp:	205481
Ion Ratio	Lower	Upper	
188	100		
94	7.7	5.8	8.6
80	9.9	7.4	11.2

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#71

Phenanthrene

Concen: 94.730 ng

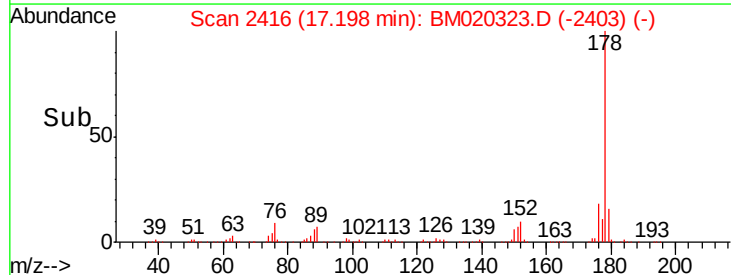
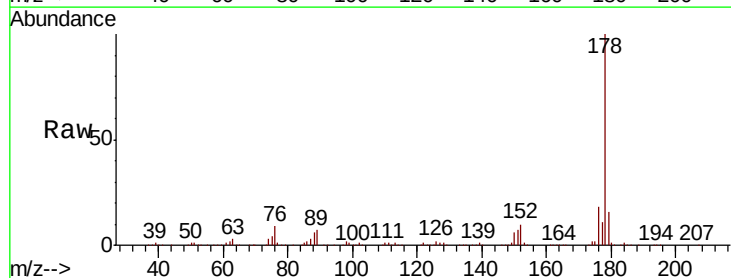
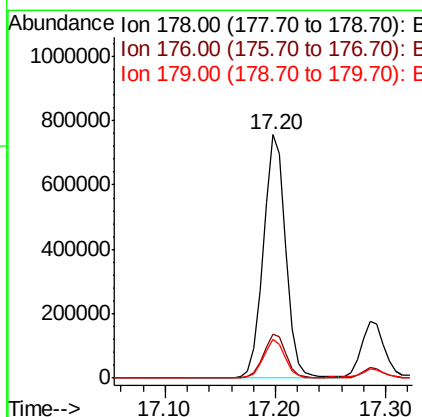
RT: 17.20 min Scan# 2416

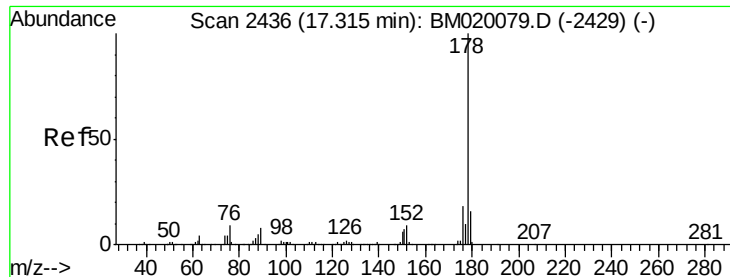
Delta R.T. -0.02 min

Lab File: BM020323.D

Acq: 13 May 2019 19:22

Tgt Ion:	178	Resp:	1074499
Ion Ratio	Lower	Upper	
178	100		
176	18.2	14.6	21.8
179	15.8	12.4	18.6





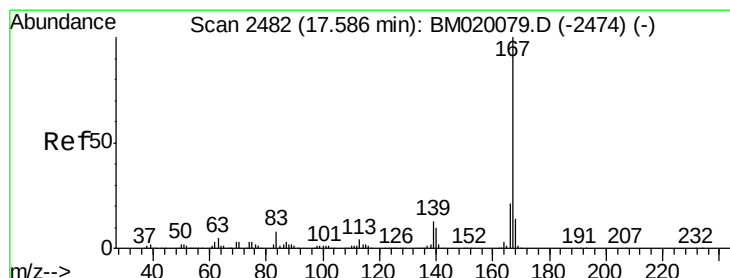
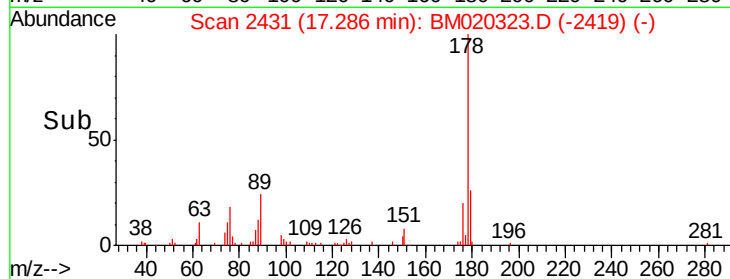
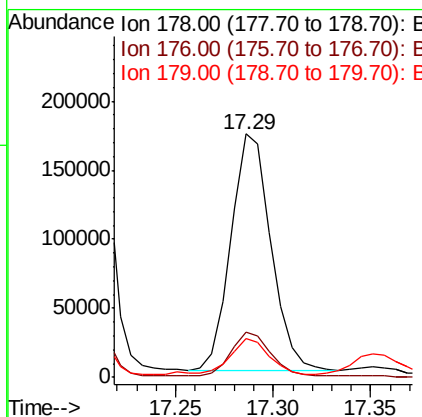
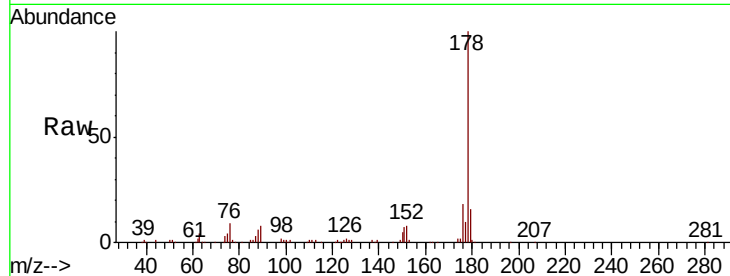
#72
 Anthracene
 Concen: 21.477 ng
 RT: 17.29 min Scan# 2431
 Delta R.T. -0.03 min
 Lab File: BM020323.D
 Acq: 13 May 2019 19:22

Instrument :
 BNA_M
 ClientSampleId :
 RT-2683-RT-5156

Tot Ion:	178	Resp:	243567
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.6	22.0
179	16.2	12.4	18.6

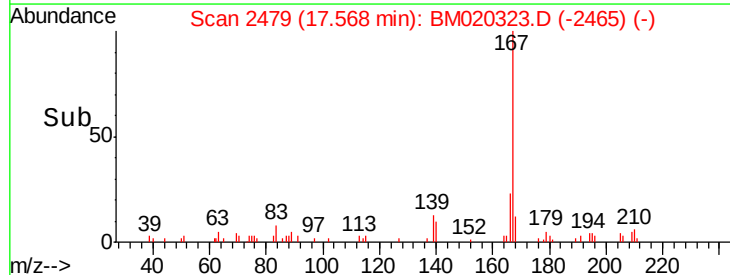
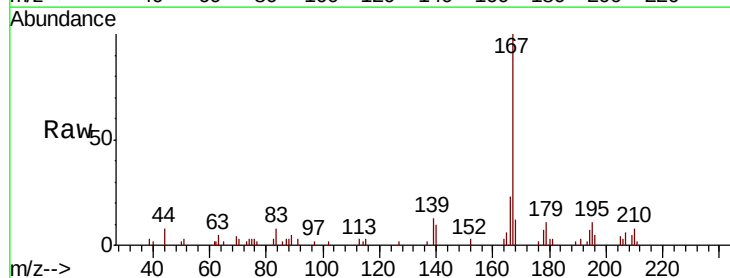
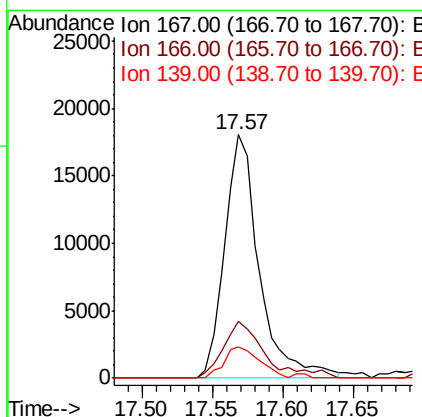
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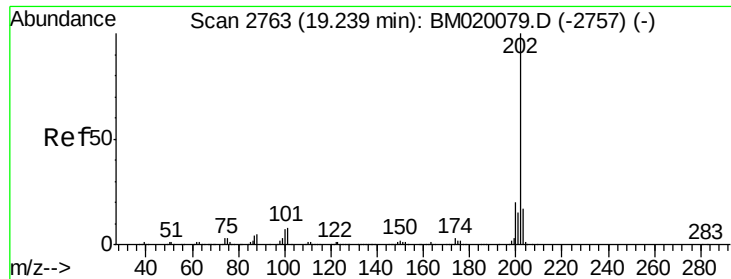
mohammad
 5/14/2019 11:12:03 PM



#73
 Carbazole
 Concen: 3.009 ng
 RT: 17.57 min Scan# 2479
 Delta R.T. -0.02 min
 Lab File: BM020323.D
 Acq: 13 May 2019 19:22

Tgt Ion:	167	Resp:	30794
Ion Ratio	Lower	Upper	
167	100		
166	23.3	17.0	25.6
139	13.0	10.6	16.0





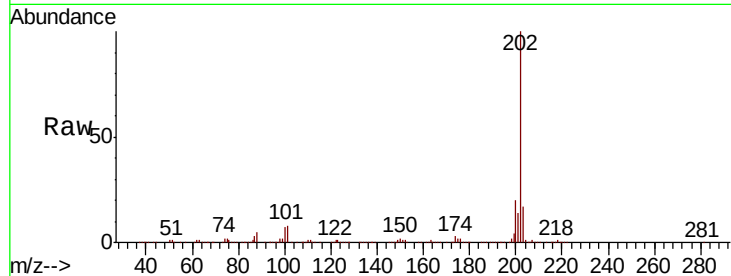
#75
Fluoranthene
Concen: 80.245 ng
RT: 19.22 min Scan# 2760
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
202	100		
101	8.2	0.0	28.4
203	17.5	0.0	37.4

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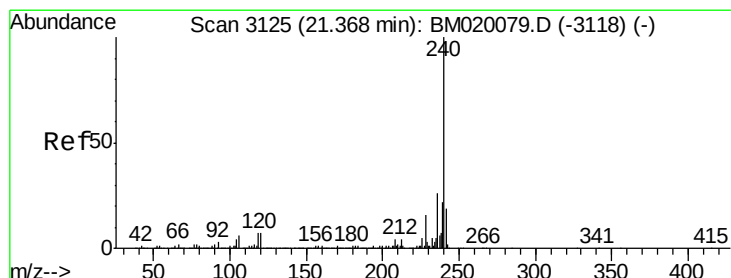
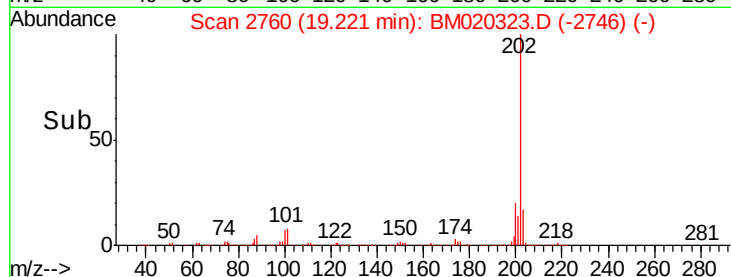
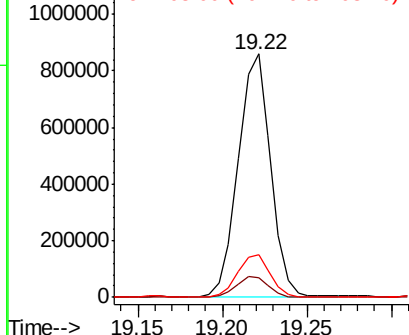


Abundance

Ion 202.00 (201.70 to 202.70): E

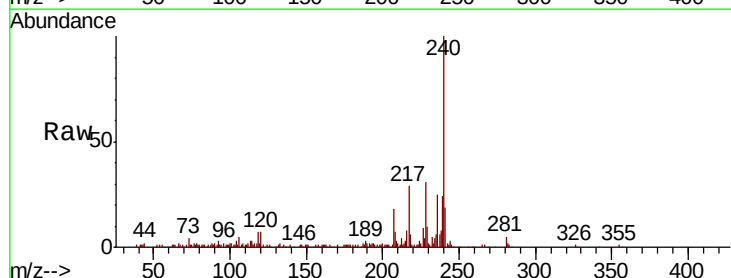
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.35 min Scan# 3122
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.8	5.6	8.4
236	25.4	20.9	31.3

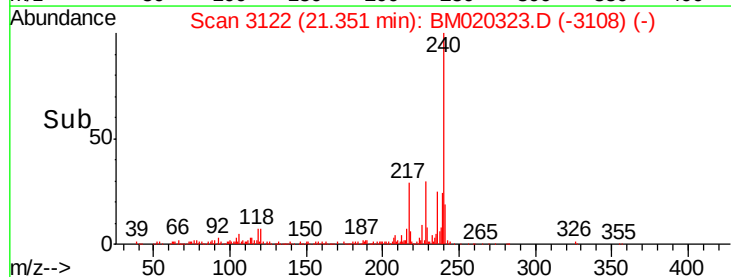
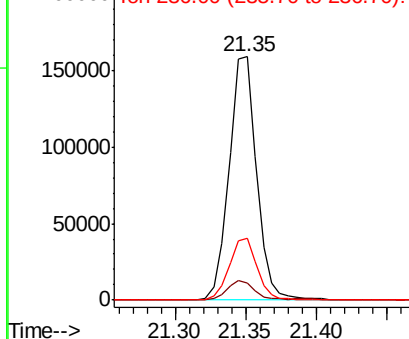


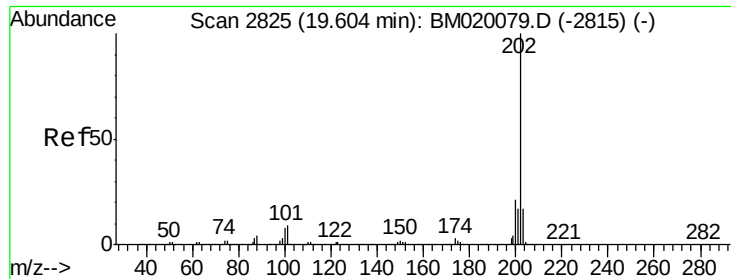
Abundance

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





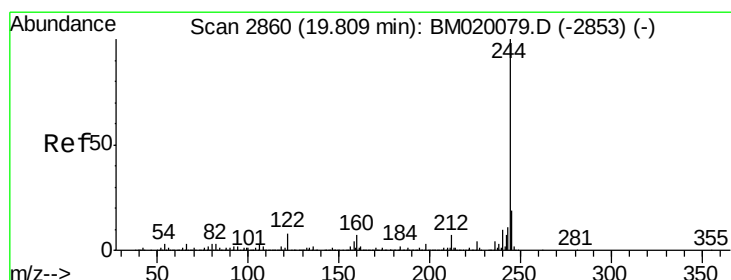
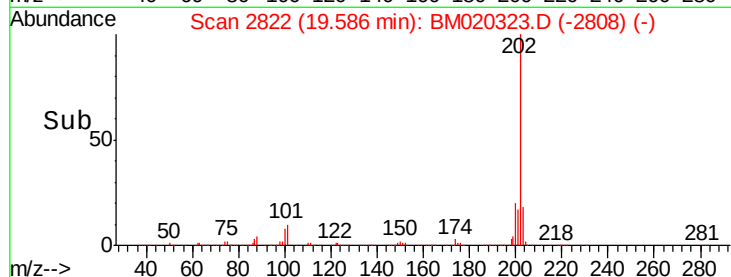
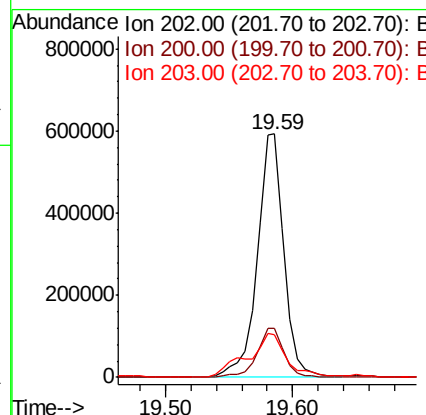
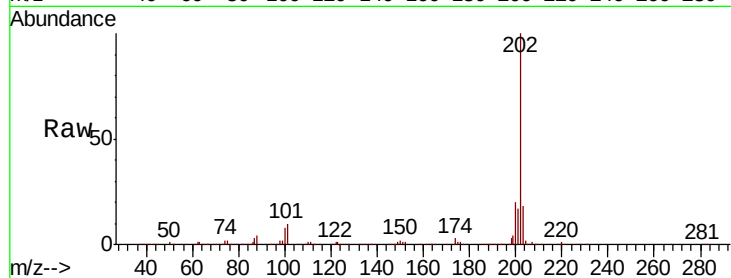
#78
Pvrene
Concen: 59.970 ng
RT: 19.59 min Scan# 2822
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.2	16.5	24.7
203	17.8	13.9	20.9

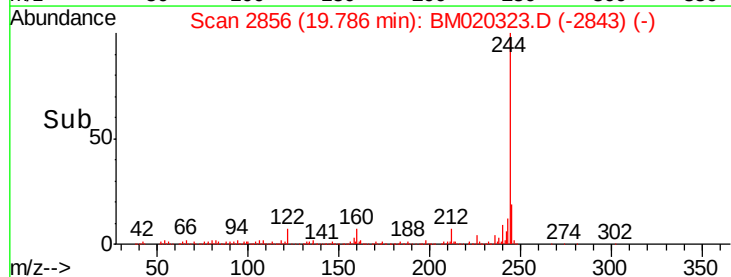
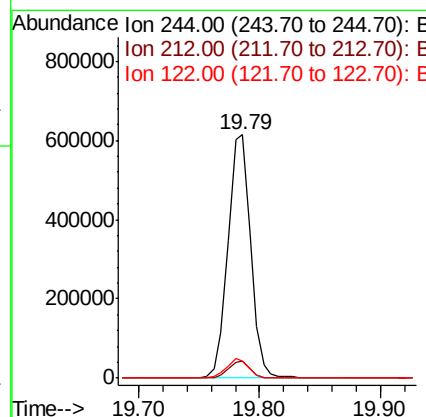
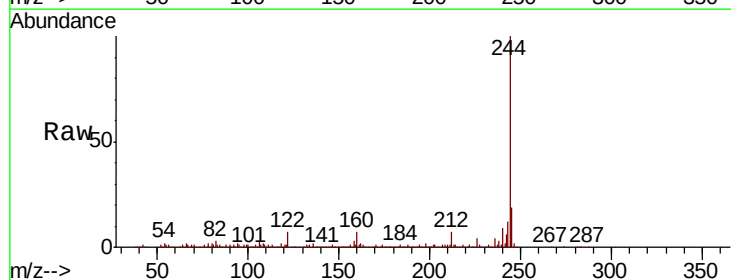
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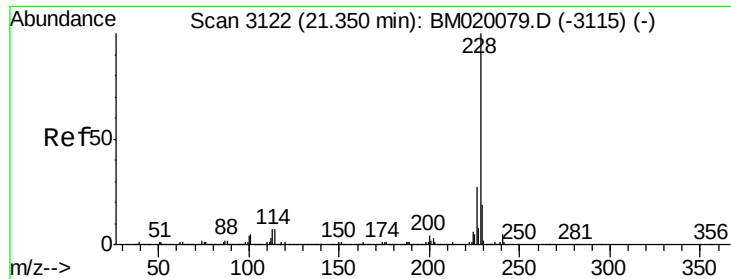
mohammad
5/14/2019 11:12:03 PM



#79
Terphenyl-d14
Concen: 64.262 ng
RT: 19.79 min Scan# 2856
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.9	5.7	8.5
122	7.1	6.2	9.2





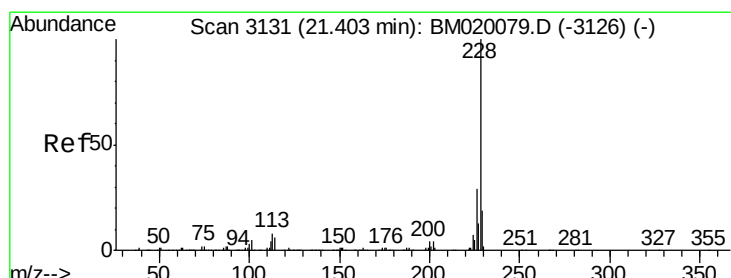
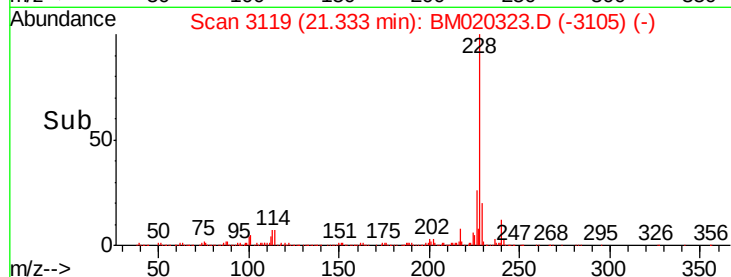
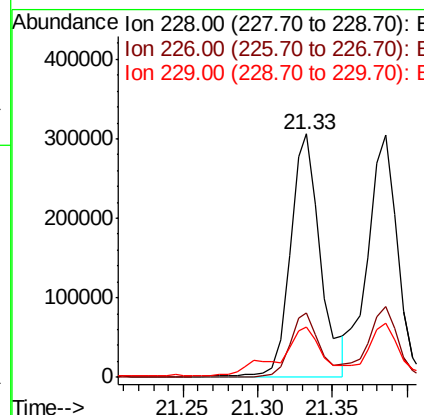
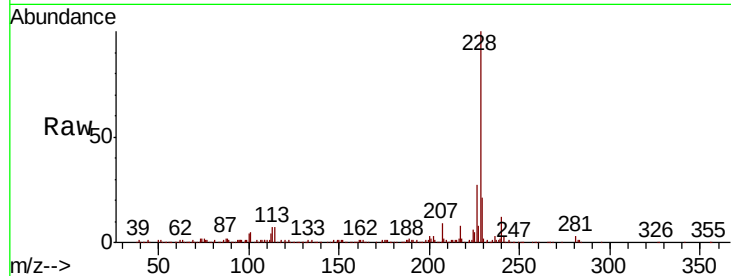
#81
Benzo(a)anthracene
Concen: 28.305 ng
RT: 21.33 min Scan# 3119
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.3	31.9
229	20.7	15.5	23.3

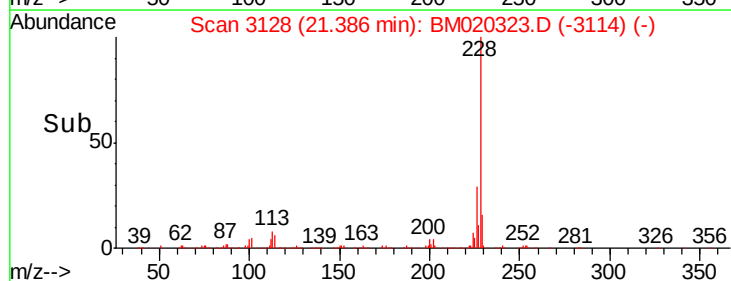
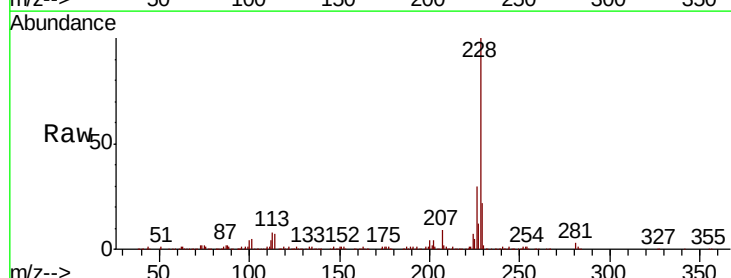
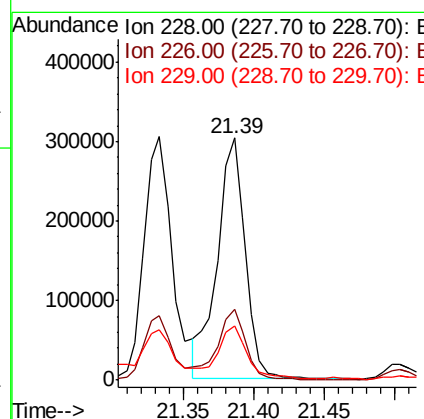
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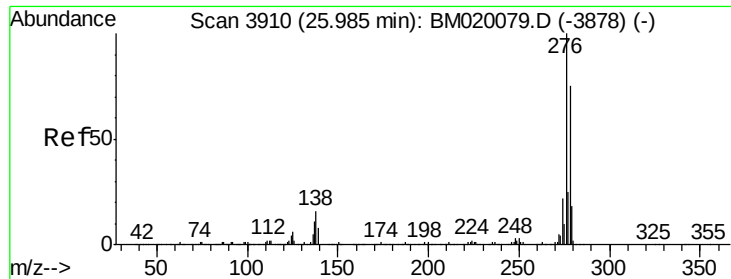
mohammad
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#83
Chrysene
Concen: 28.305 ng
RT: 21.39 min Scan# 3128
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.0	34.6
229	22.2	15.5	23.3





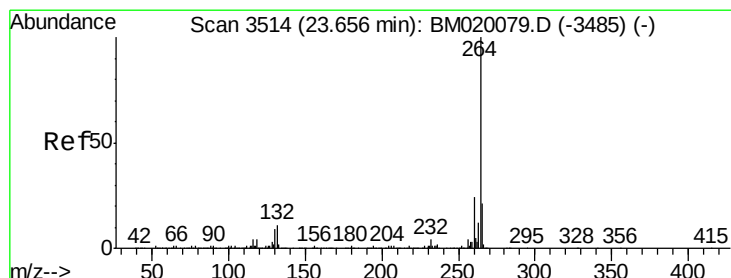
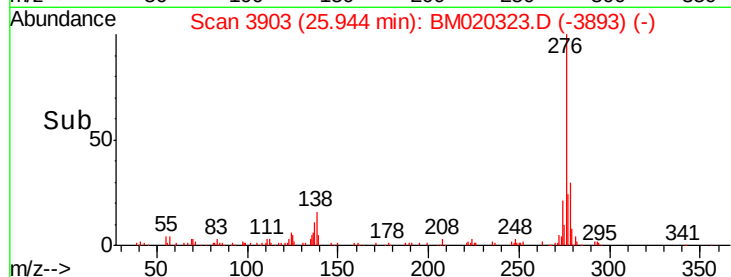
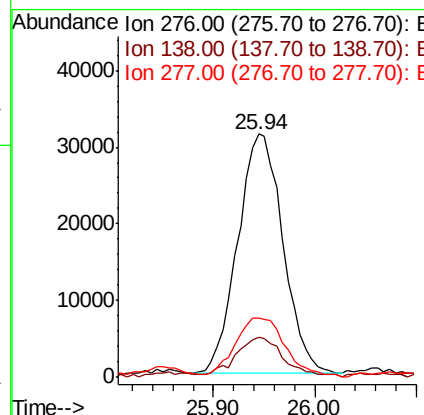
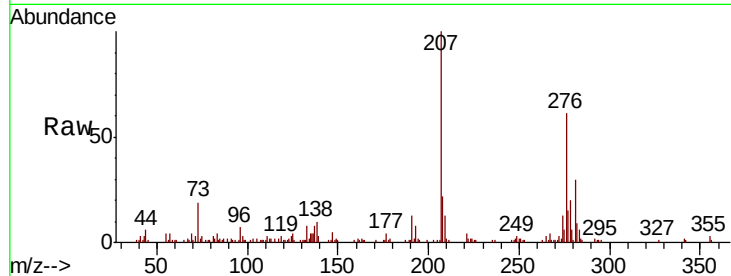
#86
Indeno(1,2,3-cd)pyrene
Concen: 5.488 ng
RT: 25.94 min Scan# 3903
Delta R.T. -0.04 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Resp	Lower	Upper
276	100	96304		
138	18.0	0.0	0.0	0.0
277	27.7	0.0	0.0	0.0

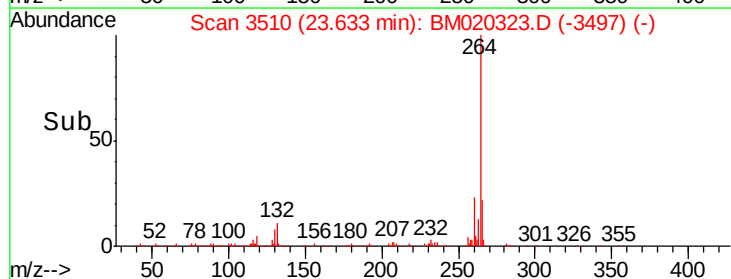
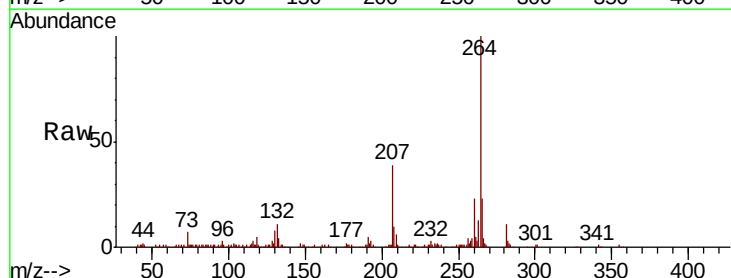
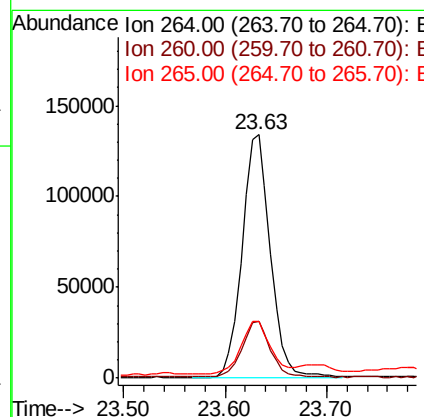
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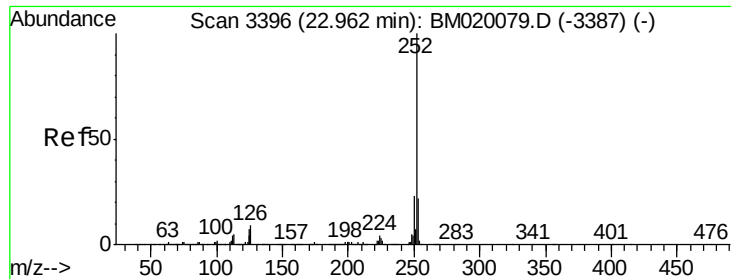
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 23.63 min Scan# 3510
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	260320		
260	23.5	19.2	28.8	
265	23.5	16.9	25.3	





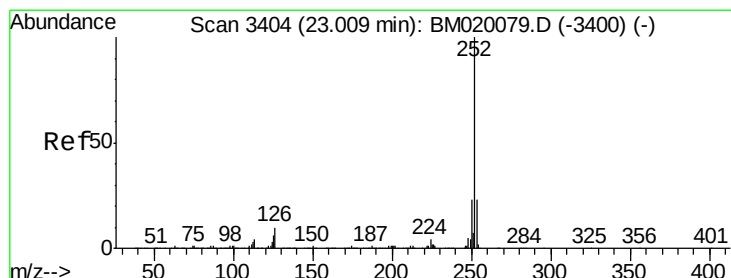
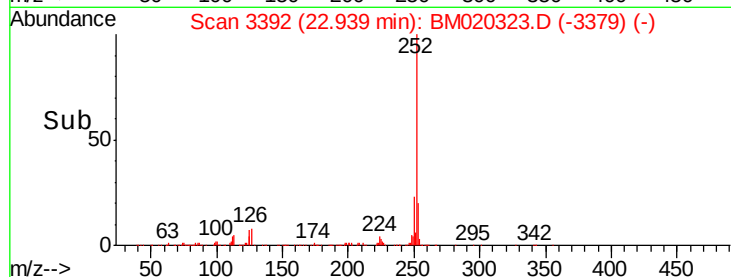
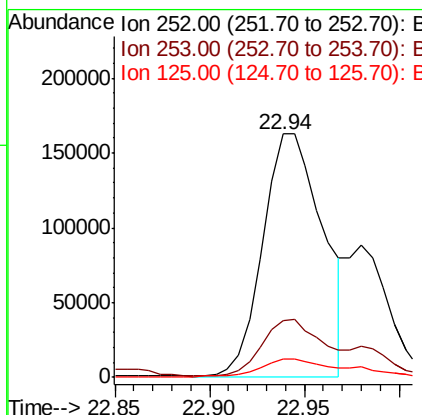
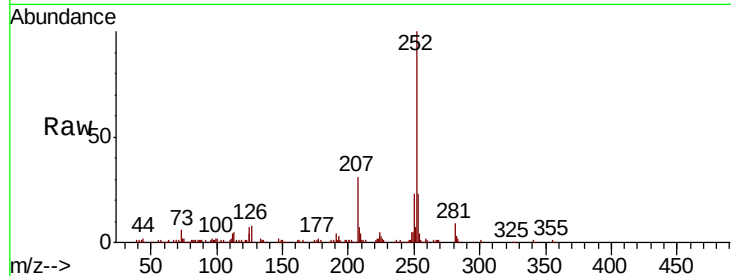
#88
Benzo(b)fluoranthene
Concen: 20.937 ng m
RT: 22.94 min Scan# 3392
Delta R.T. -0.02 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	7.3	5.4	8.2

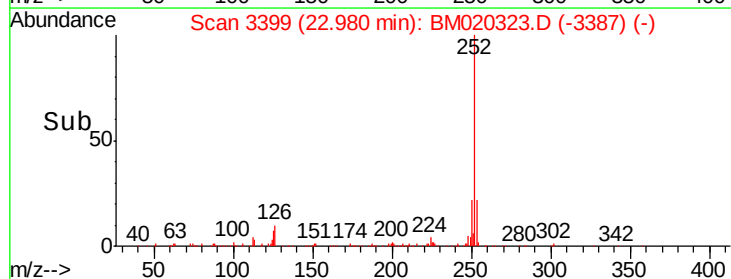
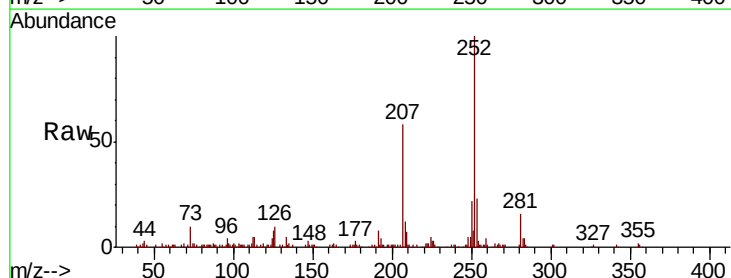
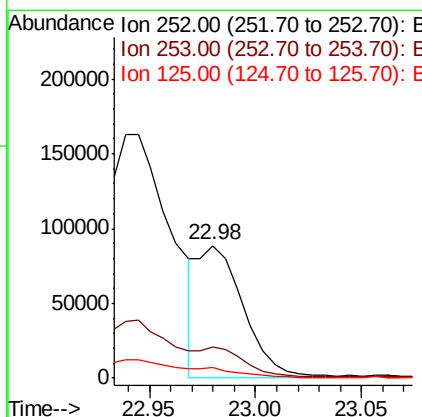
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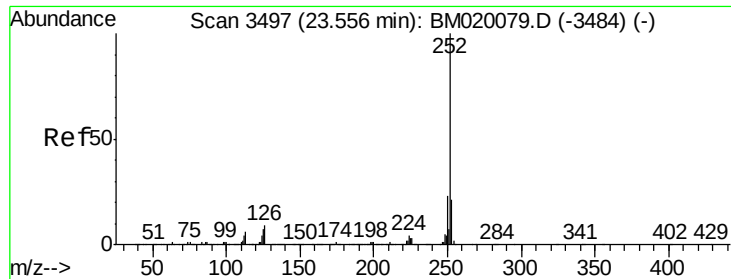
mohammad
5/14/2019 11:12:03 PM



#89
Benzo(k)fluoranthene
Concen: 8.651 ng m
RT: 22.98 min Scan# 3399
Delta R.T. -0.03 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.8
125	8.2	5.4	8.0#





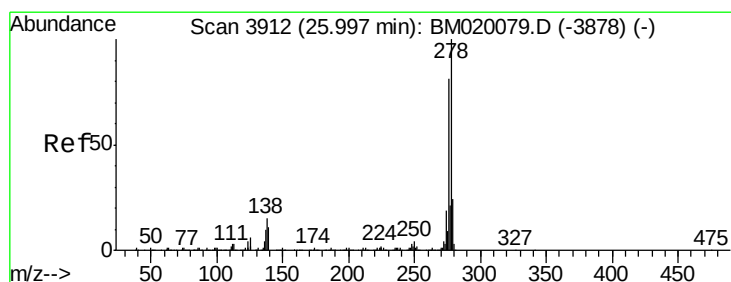
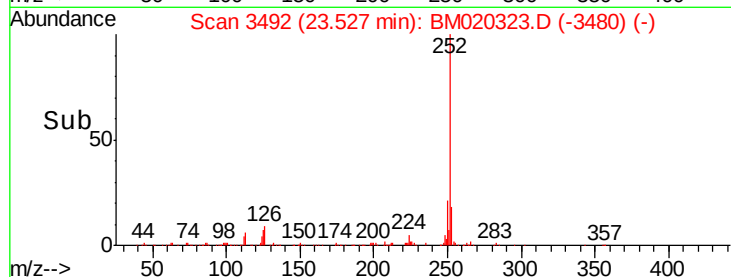
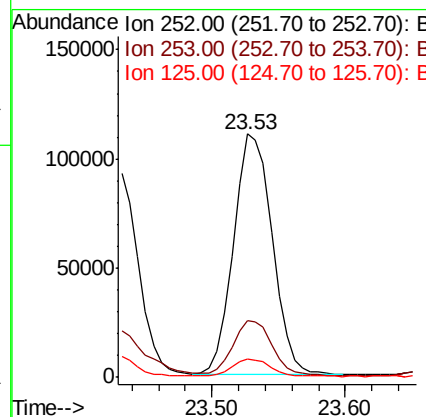
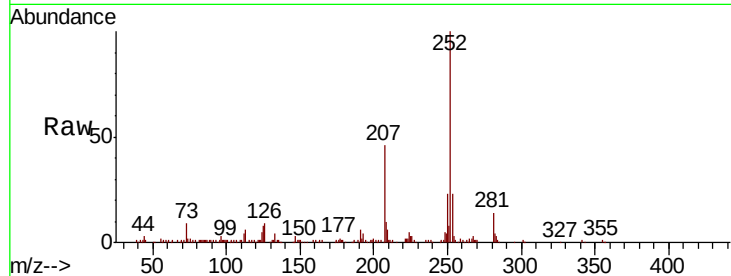
#90
Benzo(a)pyrene
Concen: 14.267 ng
RT: 23.53 min Scan# 3492
Delta R.T. -0.03 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Instrument :
BNA_M
ClientSampleId :
RT-2683-RT-5156

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	7.6	5.5	8.3

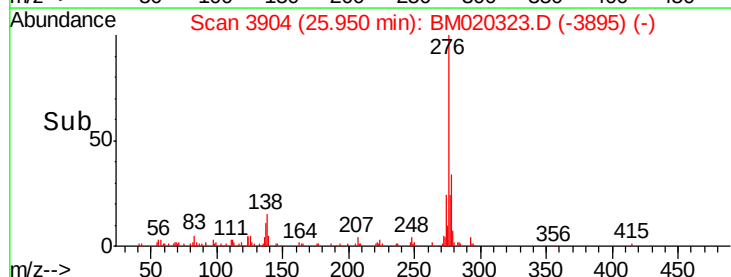
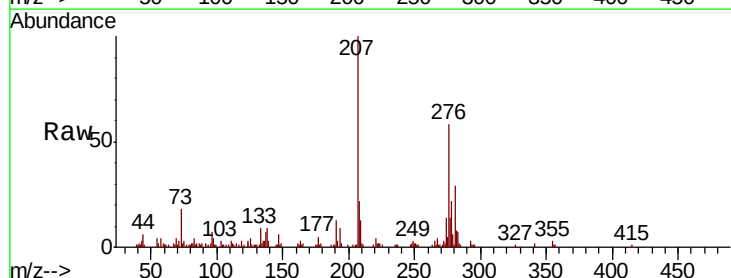
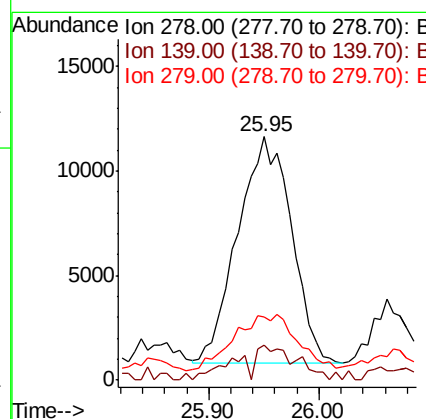
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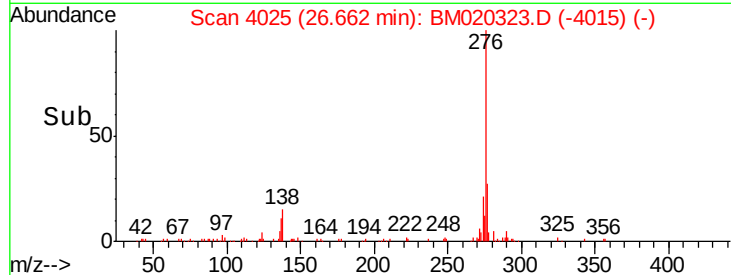
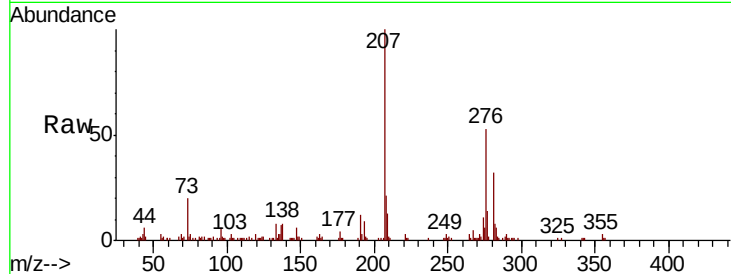
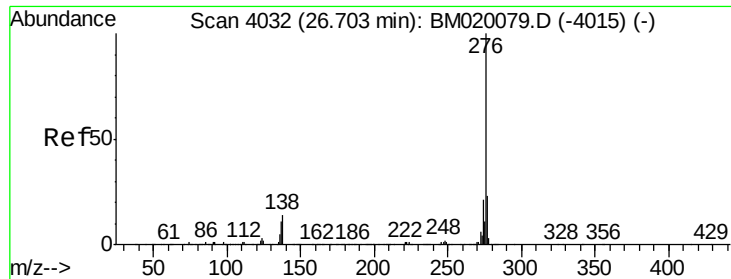
mohammad
5/14/2019 11:12:03 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.258 ng
RT: 25.95 min Scan# 3904
Delta R.T. -0.05 min
Lab File: BM020323.D
Acq: 13 May 2019 19:22

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.3	8.6	13.0#
279	26.0	18.8	28.2





#92
 Benzo(a,h,i)perylene
 Concen: 5.726 ng
 RT: 26.66 min Scan# 4025
 Delta R.T. -0.04 min
 Lab File: BM020323.D
 Acq: 13 May 2019 19:22

Tot Ion:	276	Resp:	88278
Ion Ratio	Lower	Upper	
276	100		
277	25.7	18.4	27.6
138	15.3	11.1	16.7

Instrument :
 BNA_M
 ClientSampleId :
 RT-2683-RT-5156

Manual Integrations
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mohammad
 5/14/2019 11:12:03 PM

