

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\
 Data File : BM018926.D
 Acq On : 25 Feb 2019 22:47
 Operator : JU/SJ
 Sample : K1348-05RE 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-BRE

Manual Integrations
 APPROVED

Sohil
 2/26/2019 12:06:22 PM

Quant Time: Feb 26 00:23:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 11 16:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	150176	20.00	ng	-0.02
21) Naphthalene-d8	10.48	136	636116	20.00	ng	-0.02
39) Acenaphthene-d10	14.35	164	373778	20.00	ng	-0.02
64) Phenanthrene-d10	17.10	188	881877	20.00	ng	-0.02
76) Chrysene-d12	21.30	240	1002907	20.00	ng	-0.01
87) Perylene-d12	23.55	264	1109386	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	425494	46.42	ng	-0.02
7) Phenol-d6	6.87	99	597118	46.24	ng	-0.02
23) Nitrobenzene-d5	8.86	82	379420	27.58	ng	-0.02
42) 2,4,6-Tribromophenol	15.84	330	232909	43.23	ng	-0.02
45) 2-Fluorobiphenyl	12.96	172	722291	25.65	ng	-0.02
79) Terphenyl-d14	19.73	244	1161461	23.89	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.53	128	154396	4.977	ng	99
37) 2-Methylnaphthalene	12.15	142	49163	2.251	ng	94
52) Acenaphthene	14.41	154	94614	4.170	ng	97
55) Dibenzofuran	14.75	168	114985	3.083	ng	97
58) Fluorene	15.40	166	191202	6.702	ng	100
71) Phenanthrene	17.14	178	1515741	31.982	ng	99
72) Anthracene	17.23	178	361919	7.846	ng	100
73) Carbazole	17.52	167	103409	2.146	ng	99
75) Fluoranthene	19.16	202	1730825	31.616	ng	99
78) Pyrene	19.53	202	1389845	23.861	ng	99
81) Benzo(a)anthracene	21.28	228	763919	13.067	ng	99
83) Chrysene	21.33	228	577770	10.311	ng	97
86) Indeno(1,2,3-cd)pyrene	25.83	276	370744	5.731	ng	95
88) Benzo(b)fluoranthene	22.87	252	792175m	12.481	ng	
89) Benzo(k)fluoranthene	22.91	252	315659m	4.995	ng	
90) Benzo(a)pyrene	23.45	252	598538	9.954	ng	# 94
92) Benzo(a,h,i)perylene	26.53	276	340658	6.142	ng	100

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

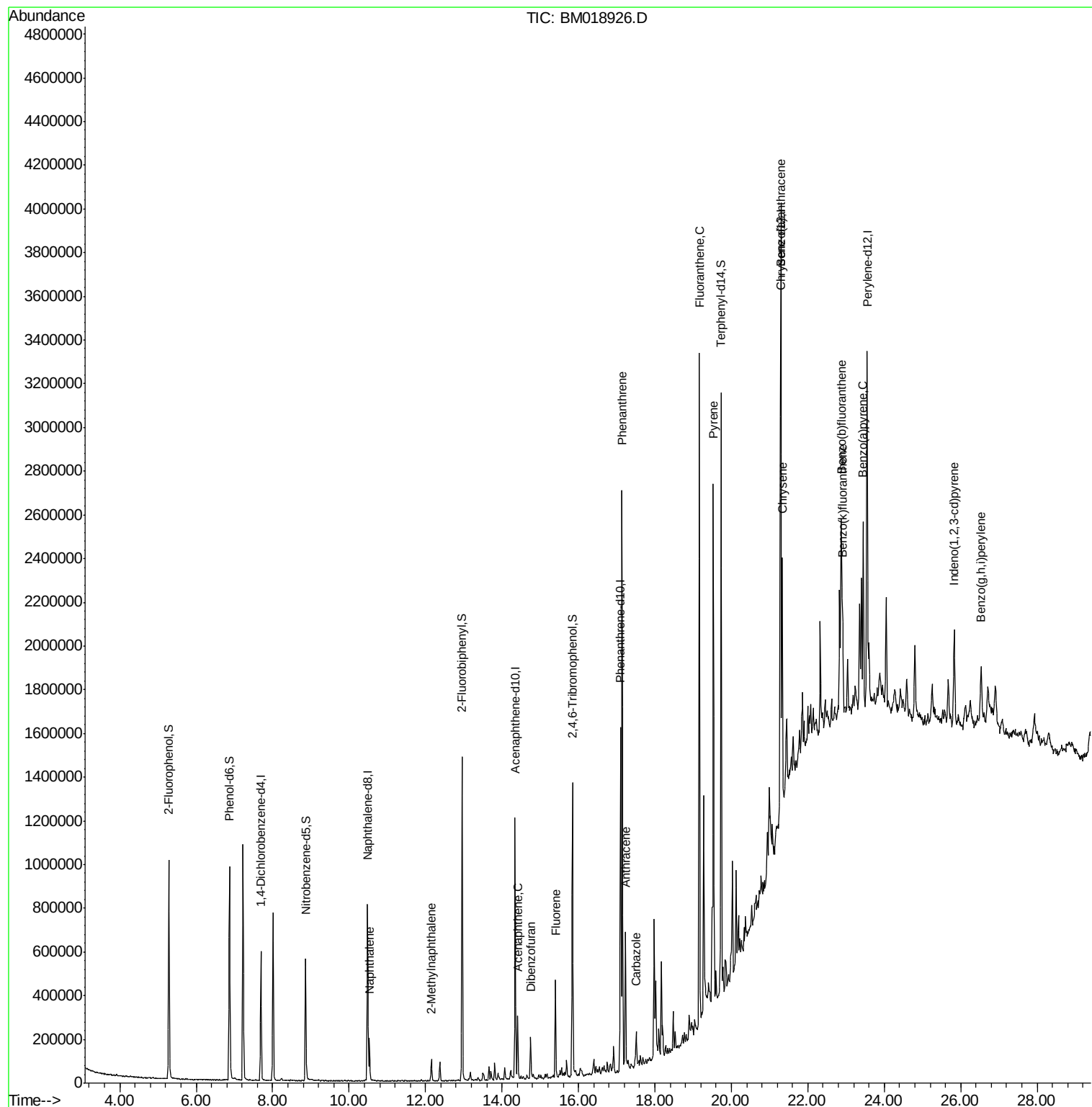
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022519\
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ALS Vial : 13 Sample Multiplier: 1

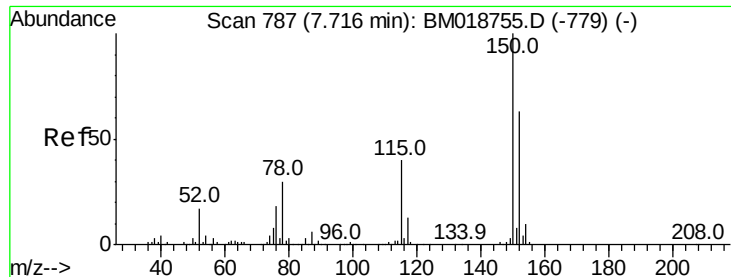
Instrument :
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OK-03-022219-BRE

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

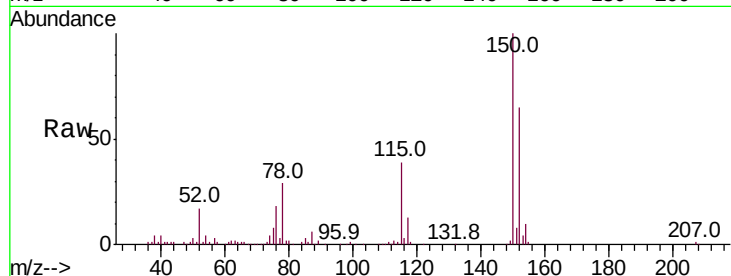
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.69 min Scan# 783
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

Instrument :
BNA_M
ClientSampleId :
OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	127.3	190.9
115	59.9	50.8	76.2

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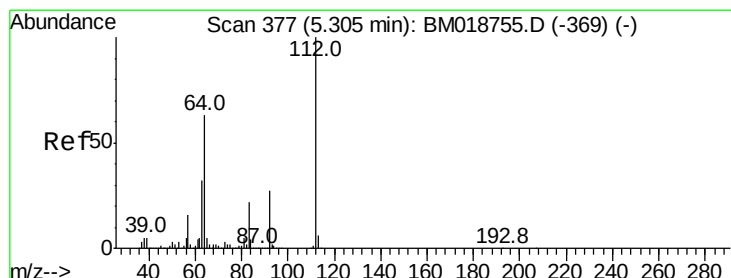
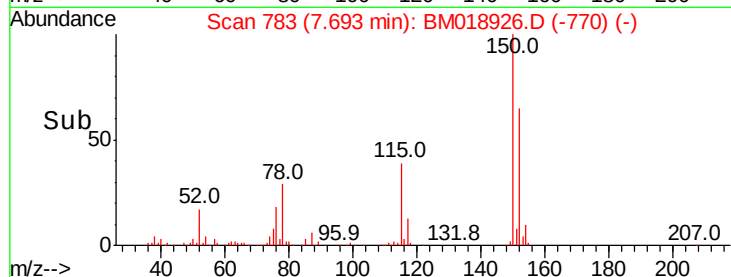
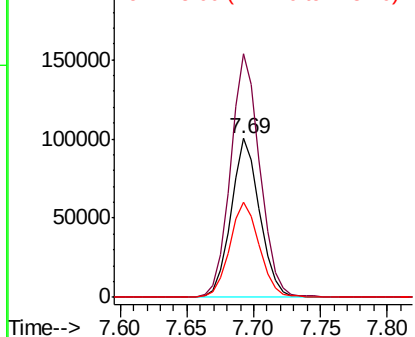


Abundance

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: 46.423 ng
RT: 5.29 min Scan# 374
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

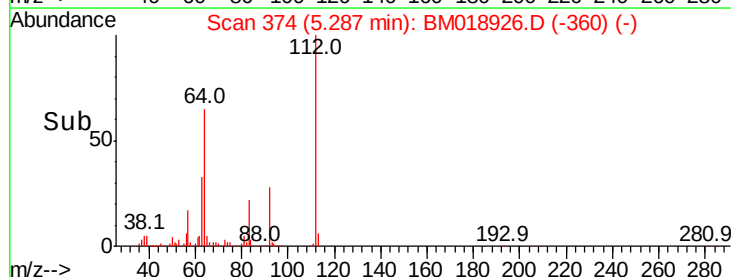
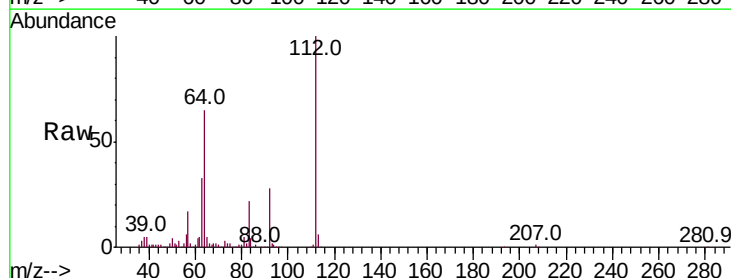
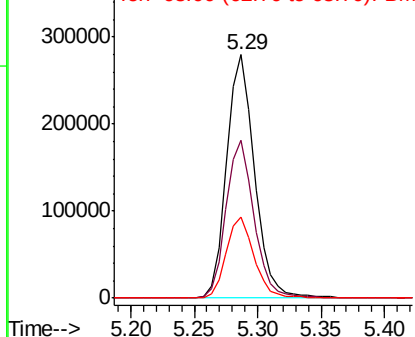
Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.8	50.6	75.8
63	33.4	25.7	38.5

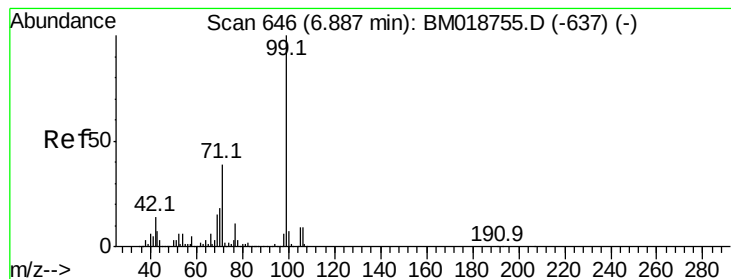
Abundance

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: 46.245 ng

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Instrument :

BNA_M

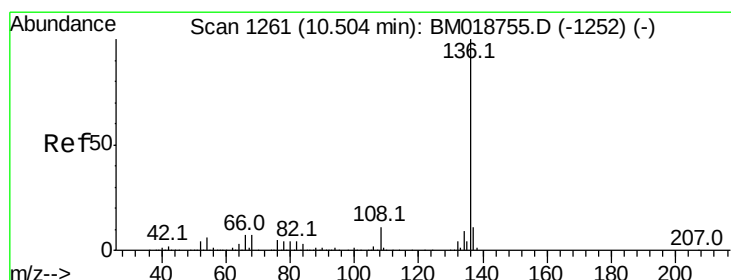
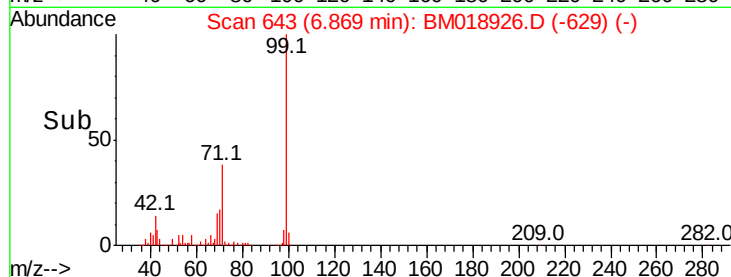
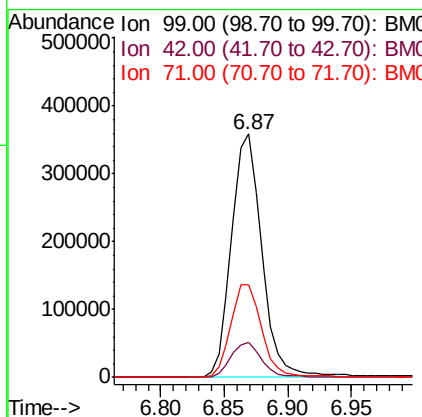
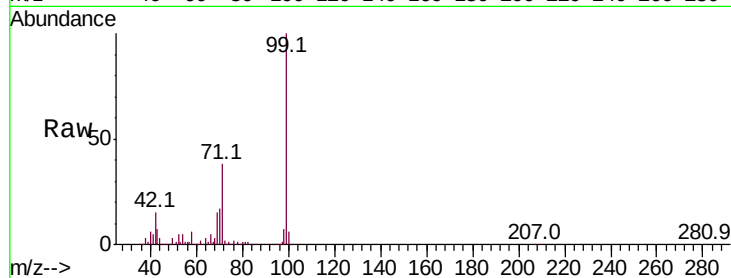
ClientSampleId :

OK-03-022219-BRE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		597118		
42	14.6	11.0	16.6		
71	38.1	31.3	46.9		

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#21

Naphthalene-d8

Concen: 20.000 ng

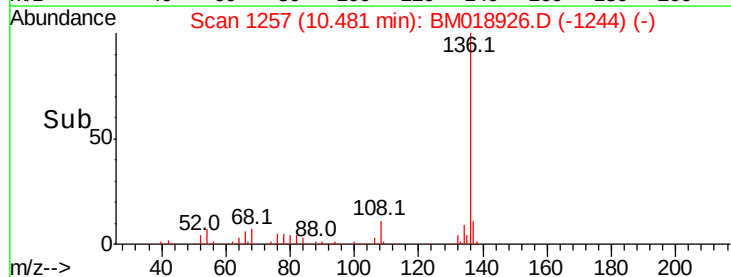
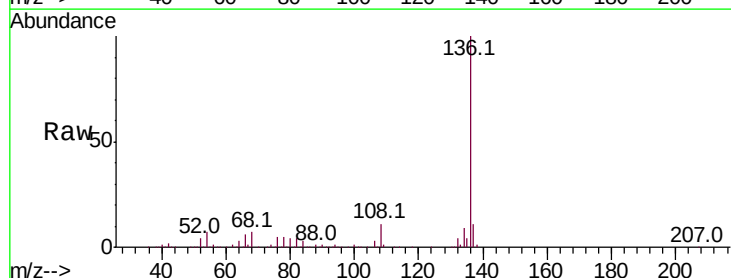
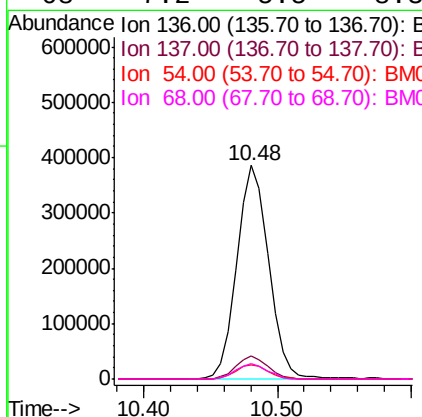
RT: 10.48 min Scan# 1257

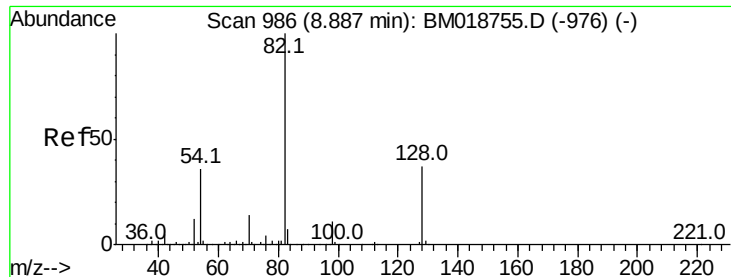
Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		636116		
137	10.6	8.8	13.2		
54	6.7	5.0	7.6		
68	7.2	5.5	8.3		





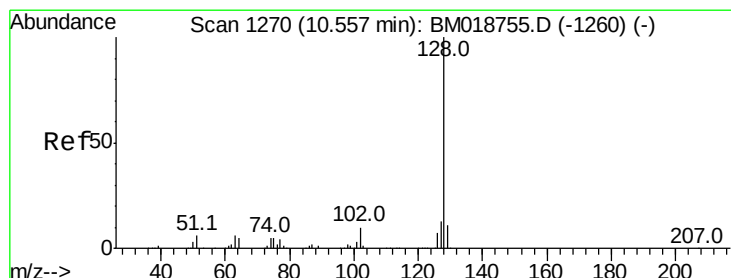
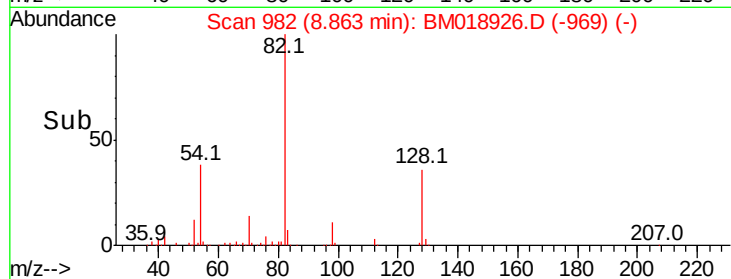
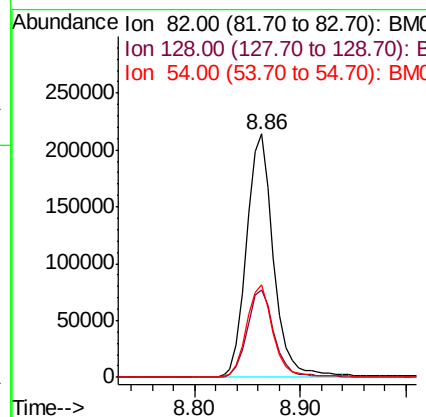
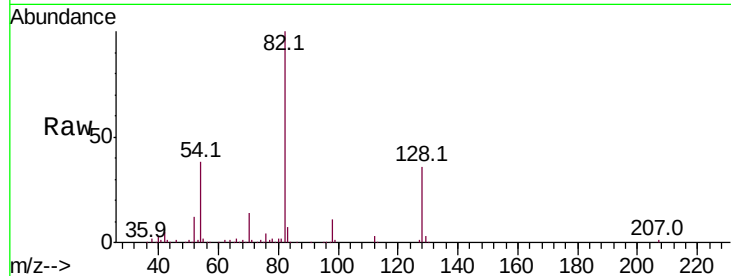
#23
 Nitrobenzene-d5
 Concen: 27.580 ng
 RT: 8.86 min Scan# 982
 Delta R.T. -0.02 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.9	29.9	44.9
54	38.1	29.1	43.7

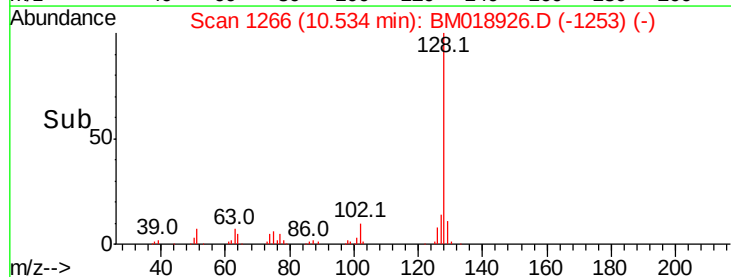
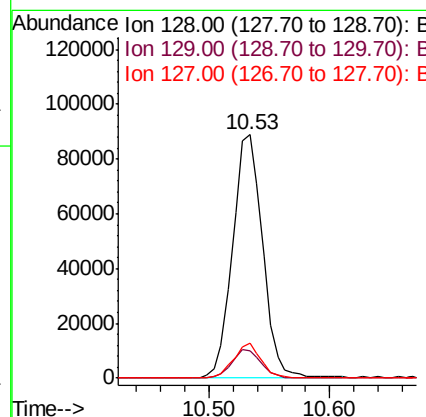
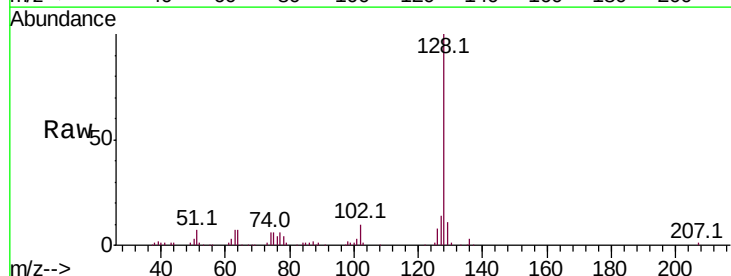
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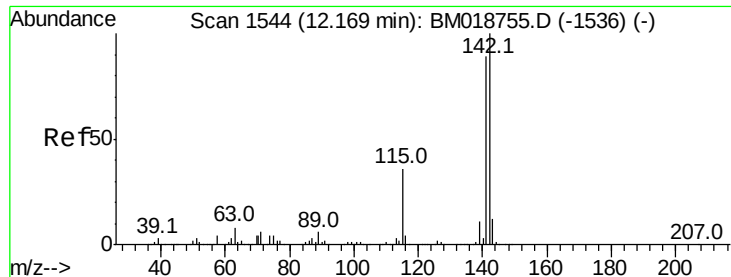
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#31
 Naphthalene
 Concen: 4.977 ng
 RT: 10.53 min Scan# 1266
 Delta R.T. -0.02 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	14.3	10.7	16.1





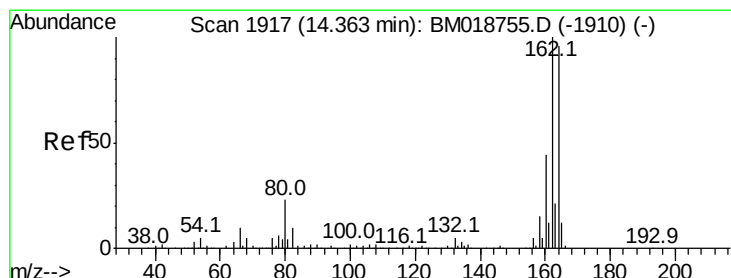
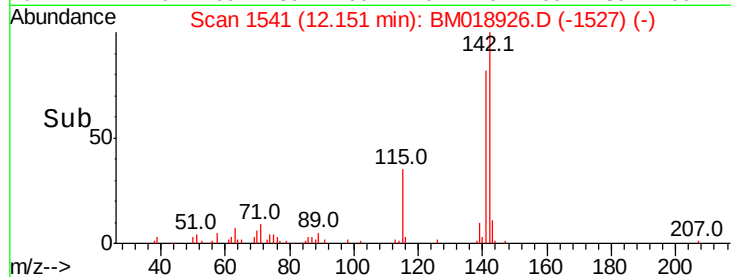
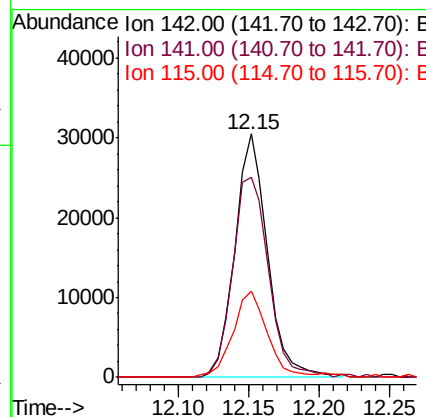
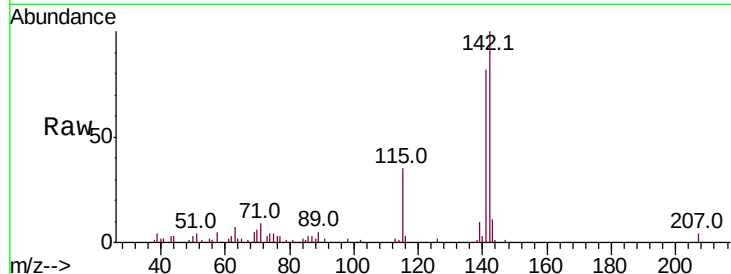
#37
2-Methylnaphthalene
Concen: 2.251 ng
RT: 12.15 min Scan# 1541
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

Instrument :
BNA_M
ClientSampleId :
OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
142	100		
141	82.2	71.2	106.8
115	35.3	29.1	43.7

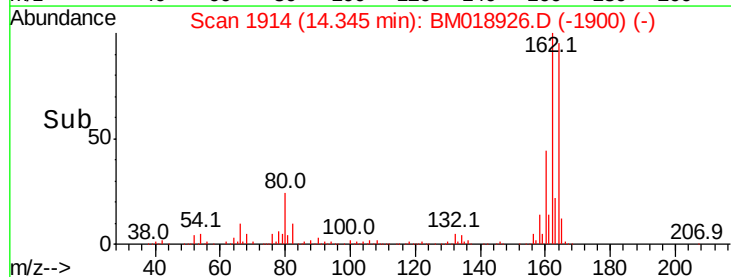
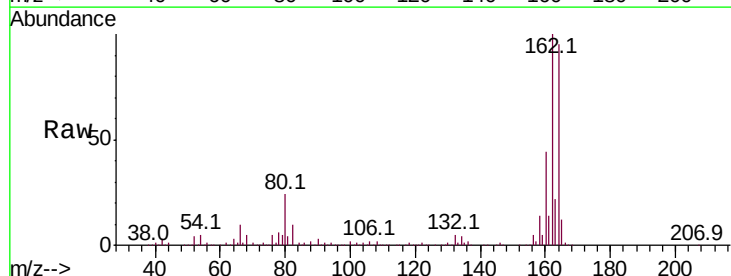
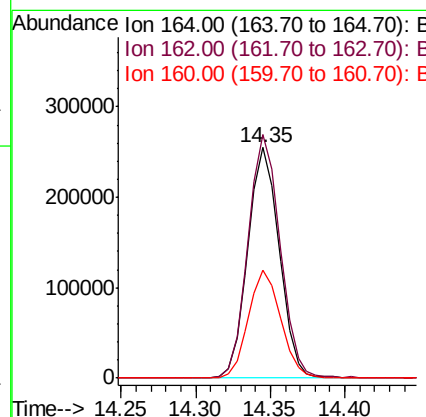
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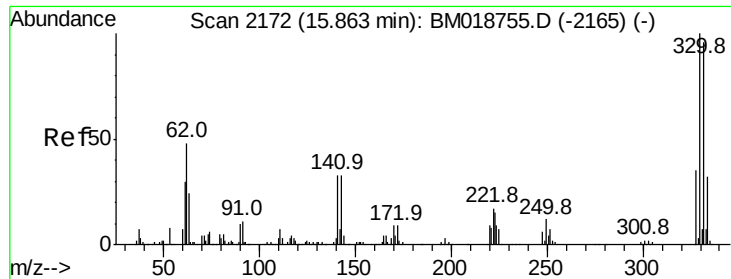
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.35 min Scan# 1914
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	83.4	125.0
160	47.0	36.6	55.0





#42

2,4,6-Tribromophenol

Concen: 43.228 ng

RT: 15.84 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Instrument :

BNA_M

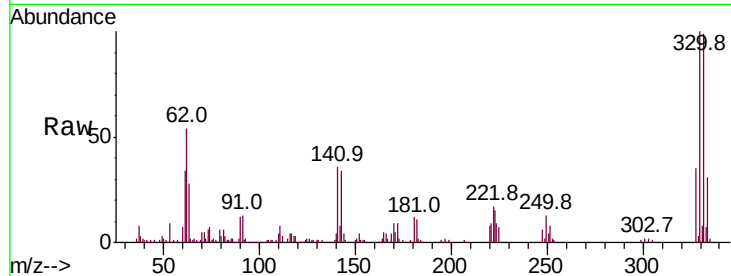
ClientSampleId :

OK-03-022219-BRE

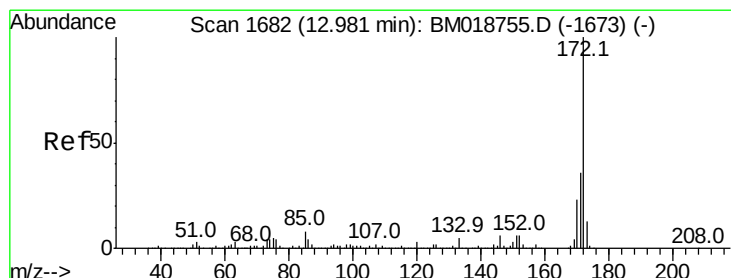
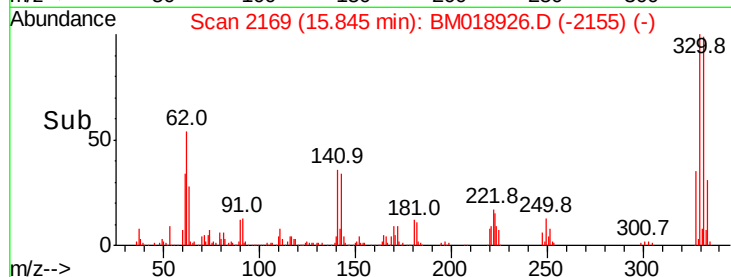
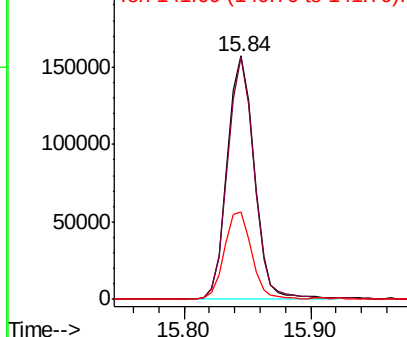
Tot Ion:	330	Resp:	232909
Ion Ratio	Lower	Upper	
330	100		
332	97.7	76.9	115.3
141	36.4	28.7	43.1

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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: 25.652 ng

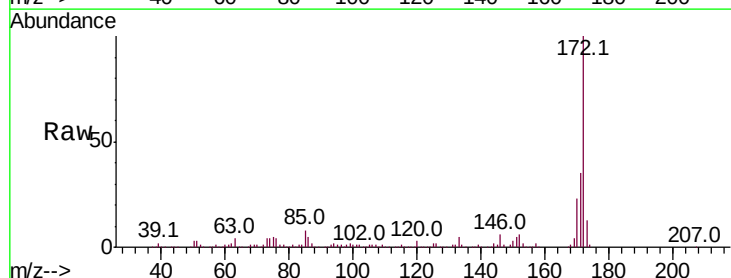
RT: 12.96 min Scan# 1678

Delta R.T. -0.02 min

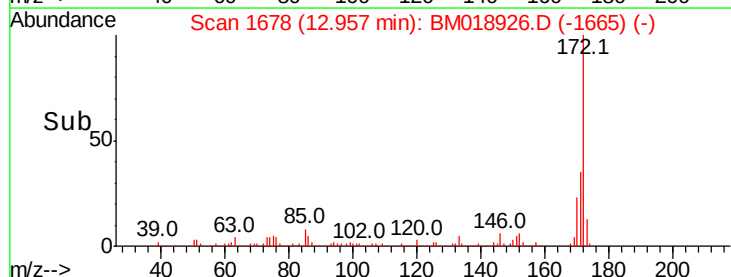
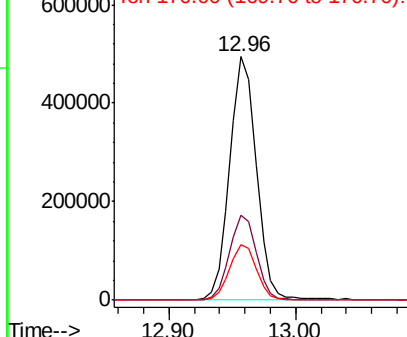
Lab File: BM018926.D

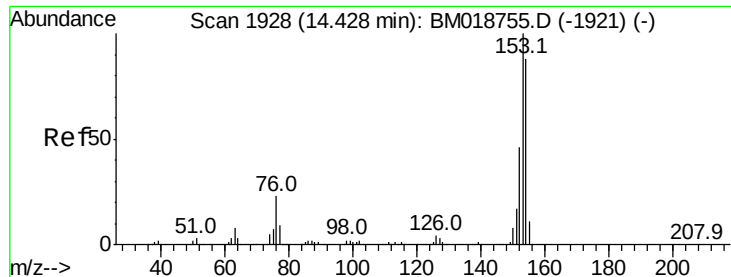
Acq: 25 Feb 2019 22:47

Tgt Ion:	172	Resp:	722291
Ion Ratio	Lower	Upper	
172	100		
171	35.0	29.0	43.6
170	22.9	18.6	28.0



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





#52

Acenaphthene

Concen: 4.170 ng

RT: 14.41 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Instrument :

BNA_M

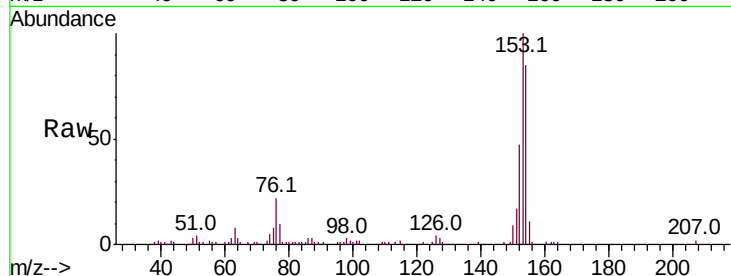
ClientSampleId :

OK-03-022219-BRE

Tot Ion:	154	Resp:	94614
Ion	Ratio	Lower	Upper
154	100		
153	117.2	91.3	136.9
152	54.7	42.2	63.4

Manual Integrations
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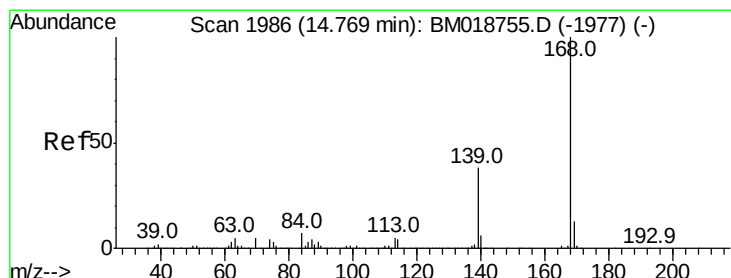
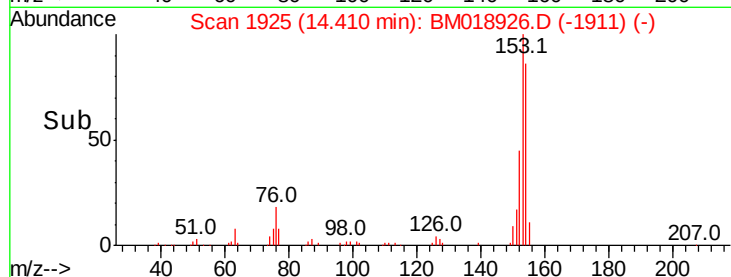
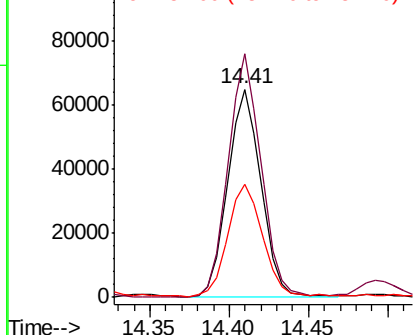


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.083 ng

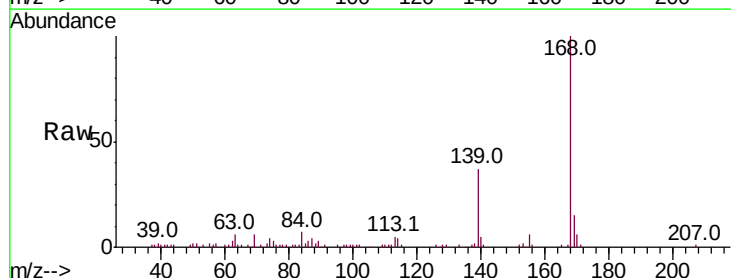
RT: 14.75 min Scan# 1982

Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Tgt Ion:	168	Resp:	114985
Ion	Ratio	Lower	Upper
168	100		
139	36.9	30.7	46.1
169	14.6	10.3	15.5

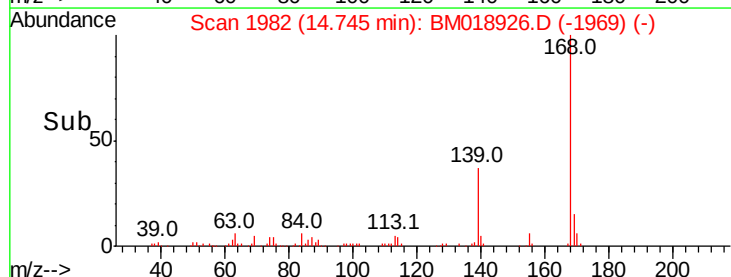
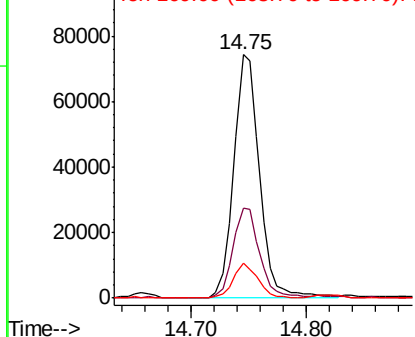


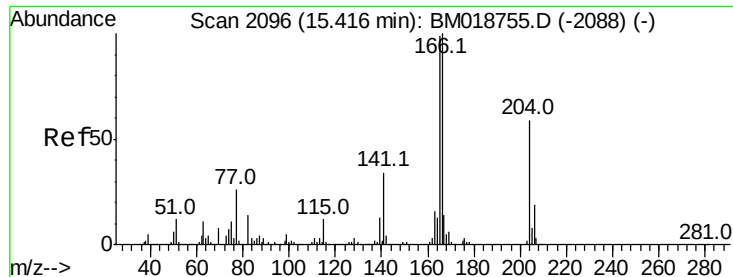
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





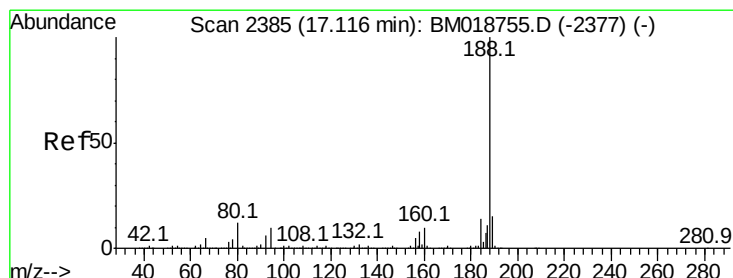
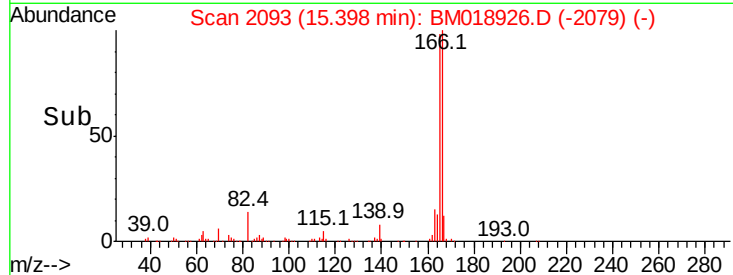
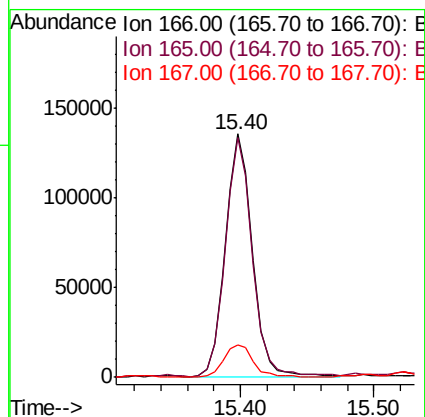
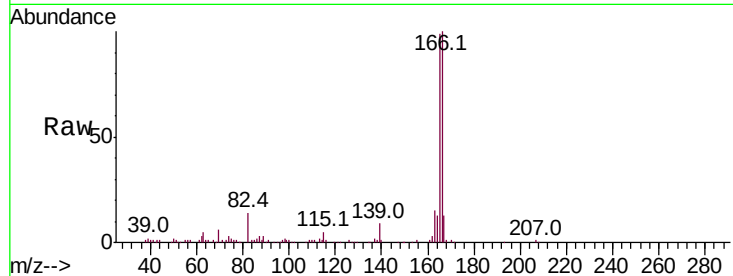
#58
 Fluorene
 Concen: 6.702 ng
 RT: 15.40 min Scan# 2093
 Delta R.T. -0.02 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-BRE

Tot Ion:	166	Resp:	191202
Ion Ratio	Lower	Upper	
166	100		
165	98.5	79.1	118.7
167	13.1	11.0	16.4

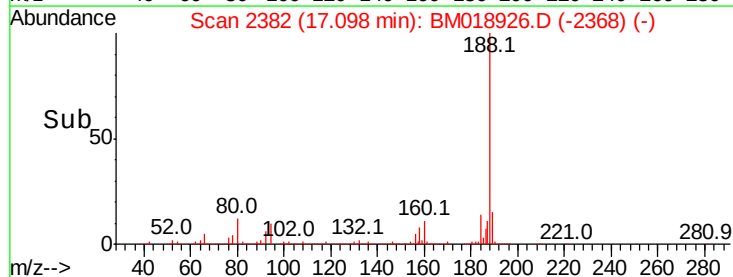
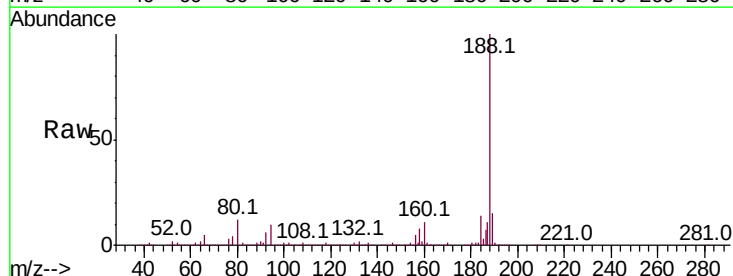
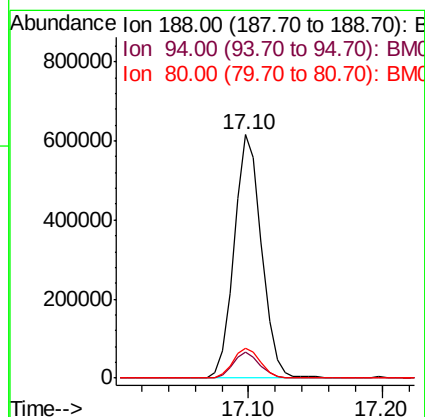
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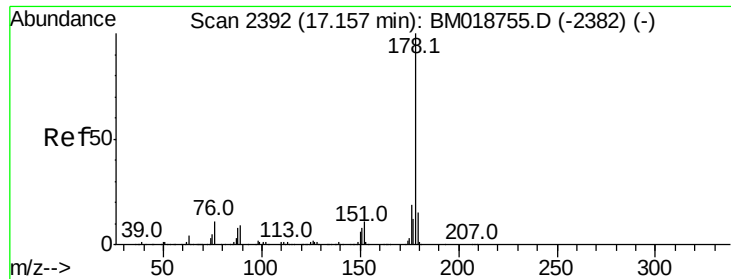
Sohil
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.10 min Scan# 2382
 Delta R.T. -0.02 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Tgt Ion:	188	Resp:	881877
Ion Ratio	Lower	Upper	
188	100		
94	10.5	8.2	12.2
80	12.1	9.7	14.5





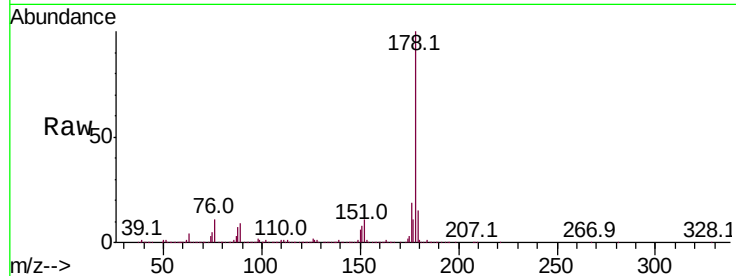
#71
Phenanthrene
Concen: 31.982 ng
RT: 17.14 min Scan# 2390
Delta R.T. -0.01 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

Instrument :
BNA_M
ClientSampleId :
OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	15.0	12.3	18.5

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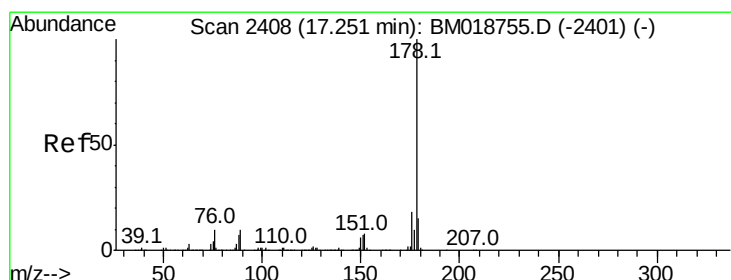
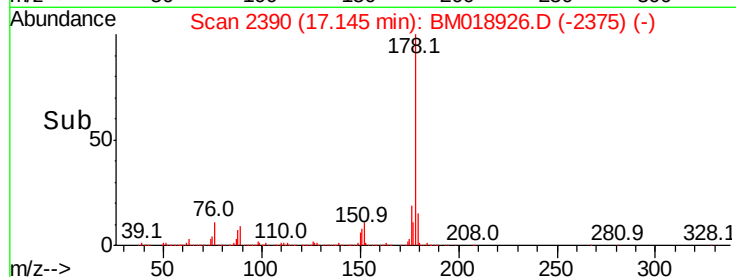
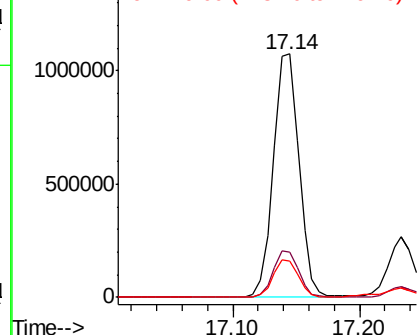


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
Anthracene
Concen: 7.846 ng
RT: 17.23 min Scan# 2405
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

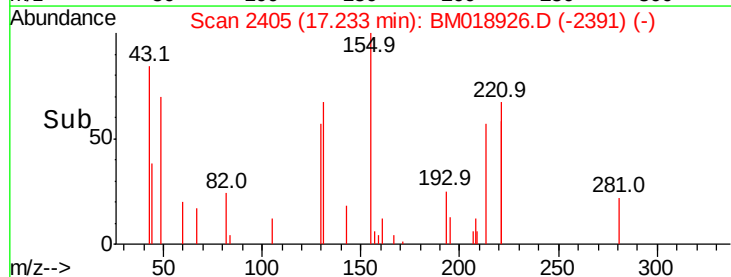
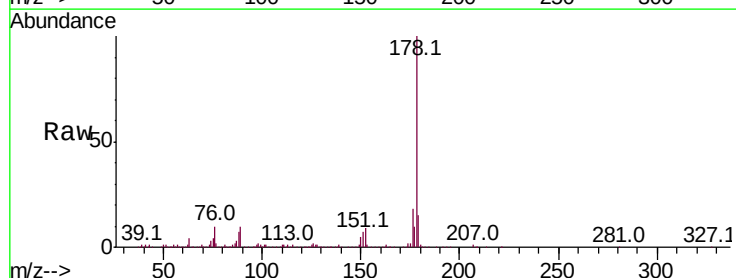
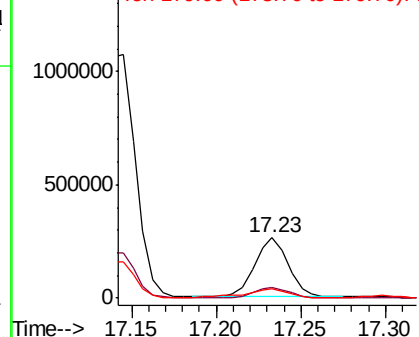
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	14.8	12.1	18.1

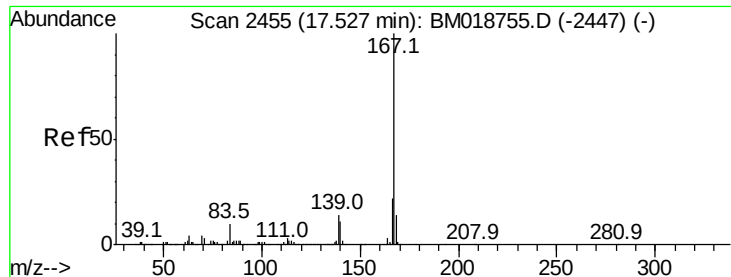
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





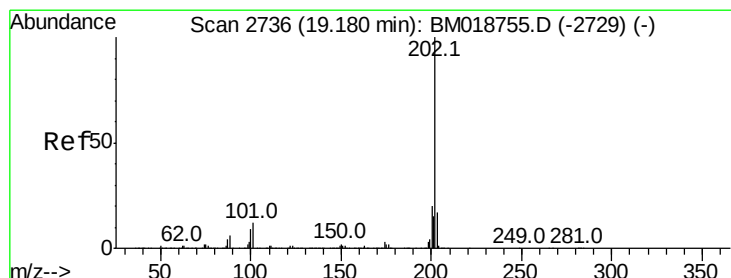
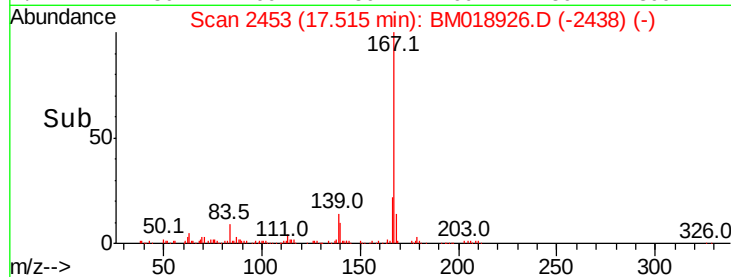
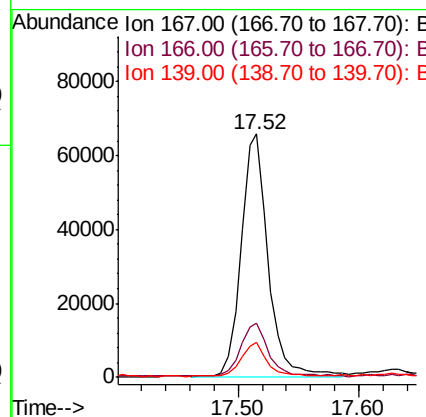
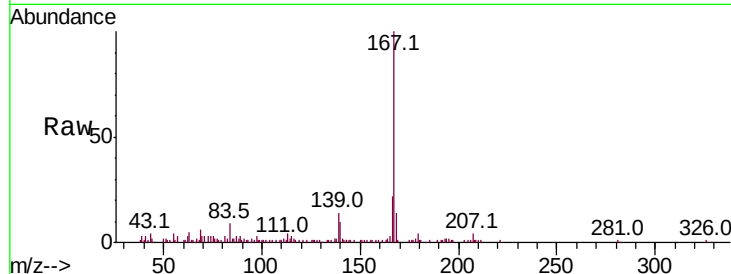
#73
 Carbazole
 Concen: 2.146 ng
 RT: 17.52 min Scan# 2453
 Delta R.T. -0.01 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.7	26.5
139	14.4	10.9	16.3

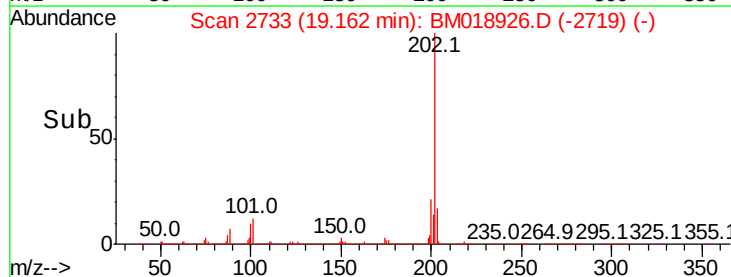
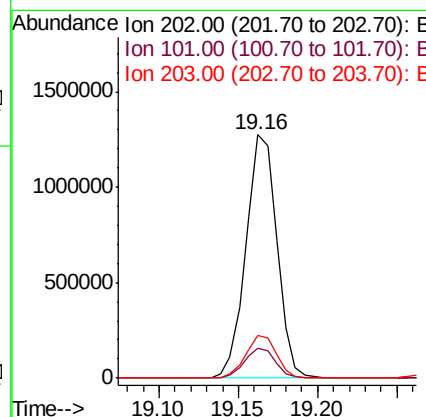
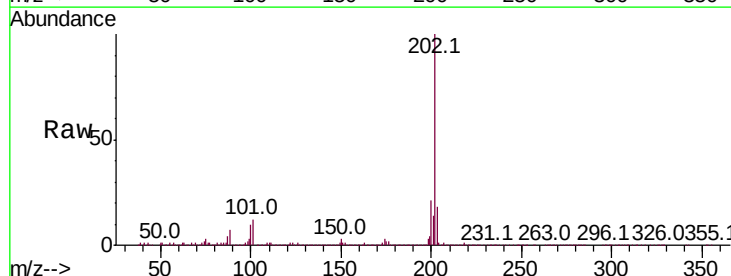
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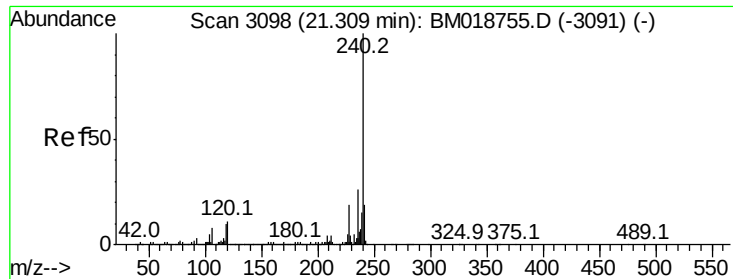
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#75
 Fluoranthene
 Concen: 31.616 ng
 RT: 19.16 min Scan# 2733
 Delta R.T. -0.02 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.5
203	17.5	0.0	37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.30 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Instrument :

BNA_M

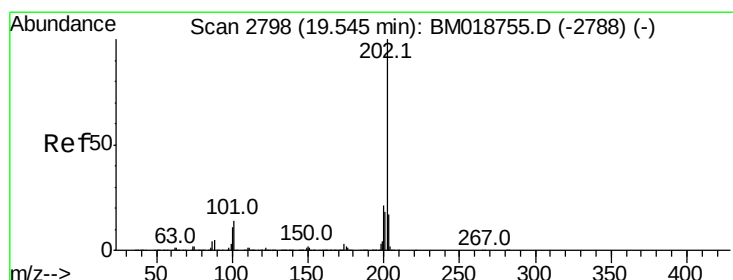
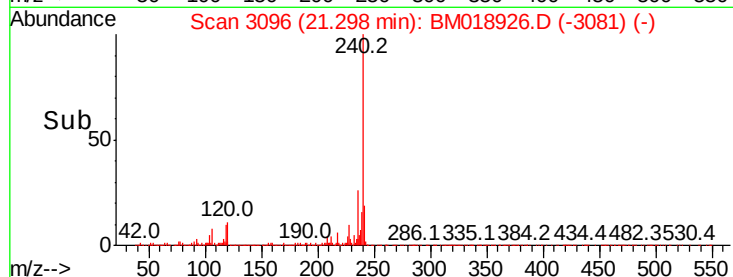
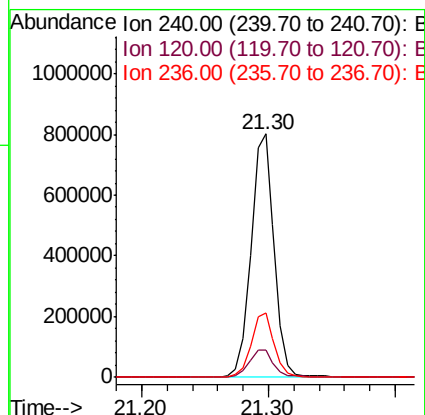
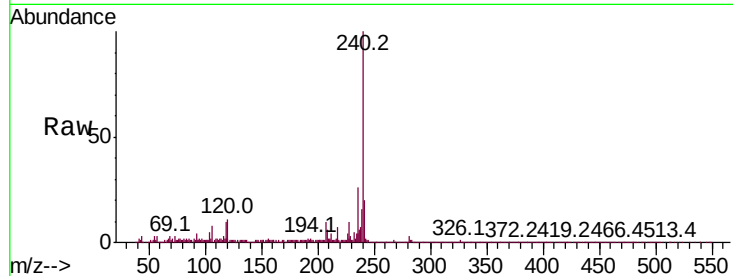
ClientSampleId :

OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	26.4	20.9	31.3

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#78

Pyrene

Concen: 23.861 ng

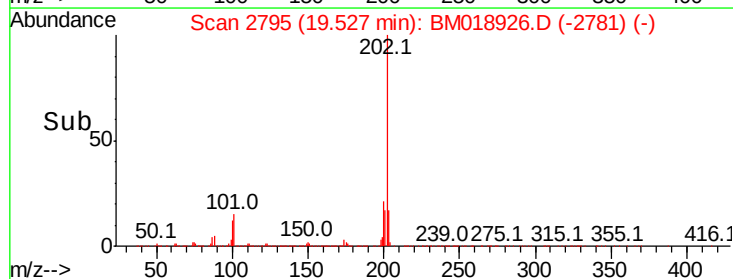
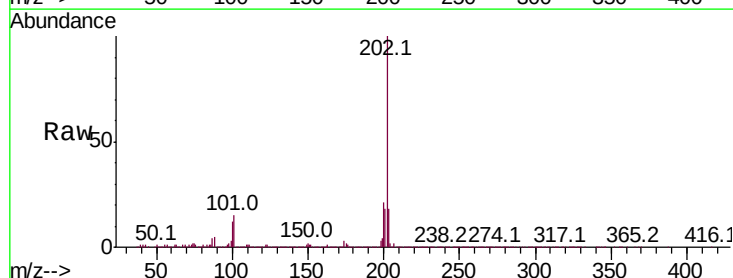
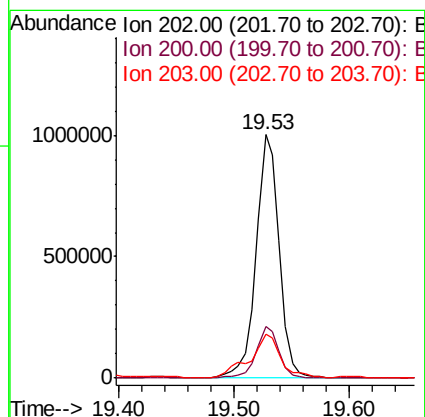
RT: 19.53 min Scan# 2795

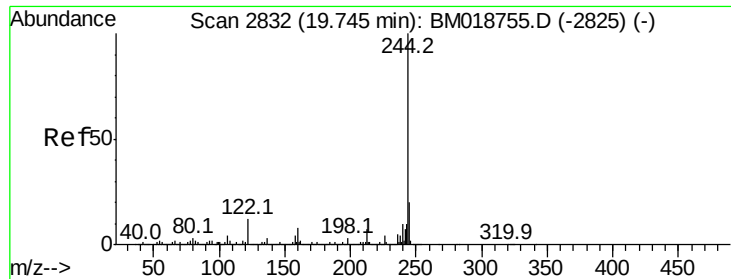
Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	18.0	13.8	20.8





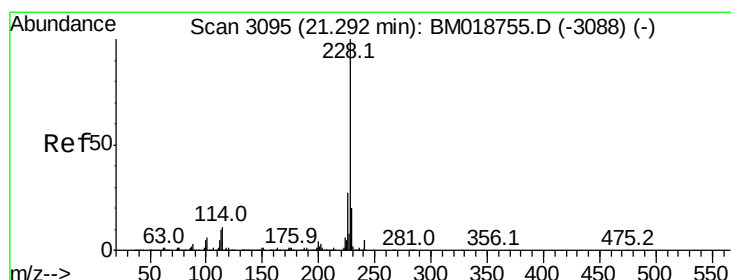
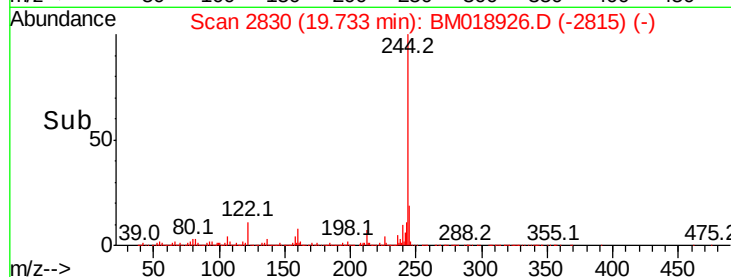
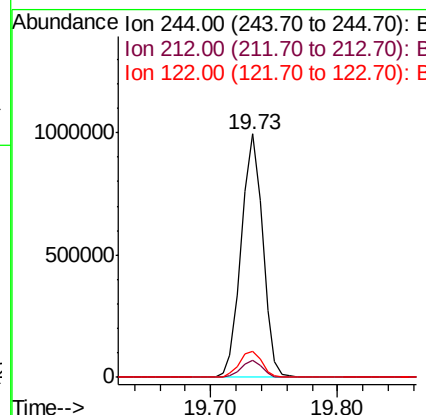
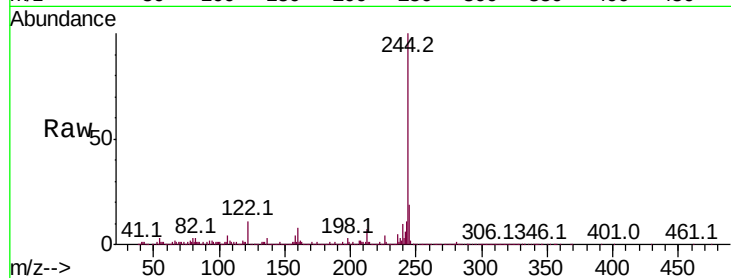
#79
 Terphenyl-d14
 Concen: 23.890 ng
 RT: 19.73 min Scan# 2830
 Delta R.T. -0.01 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.8	9.3	13.9

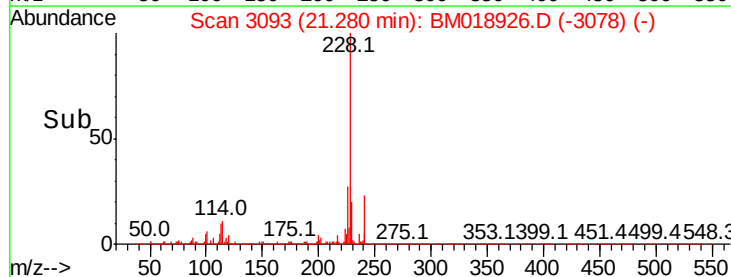
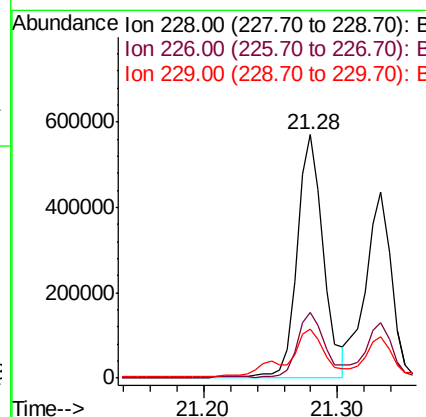
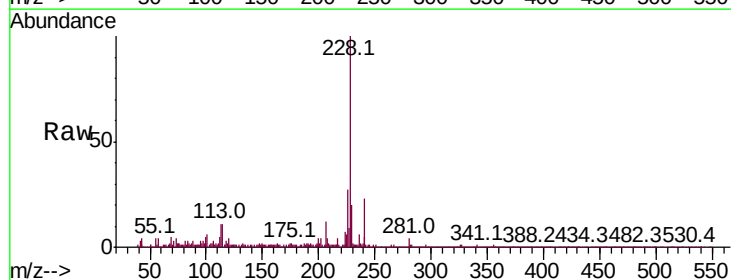
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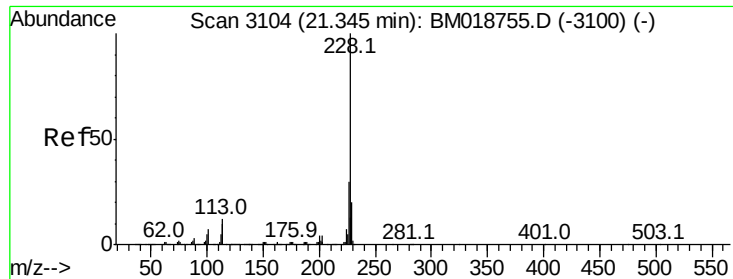
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#81
 Benzo(a)anthracene
 Concen: 13.067 ng
 RT: 21.28 min Scan# 3093
 Delta R.T. -0.01 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.9	32.9
229	20.3	15.9	23.9





#83

Chrysene

Concen: 10.311 ng

RT: 21.33 min Scan# 3102

Delta R.T. -0.01 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Instrument :

BNA_M

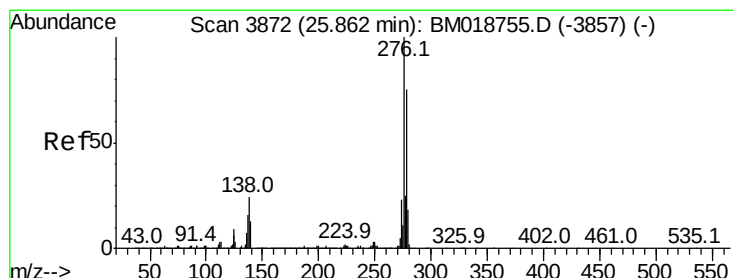
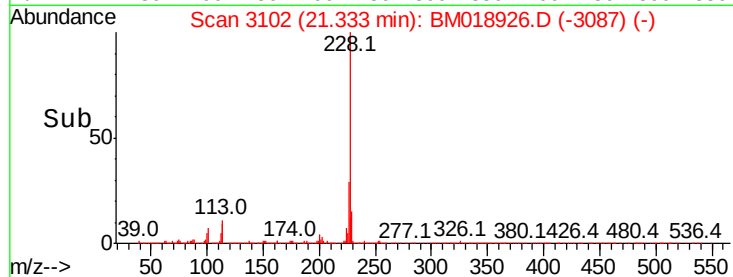
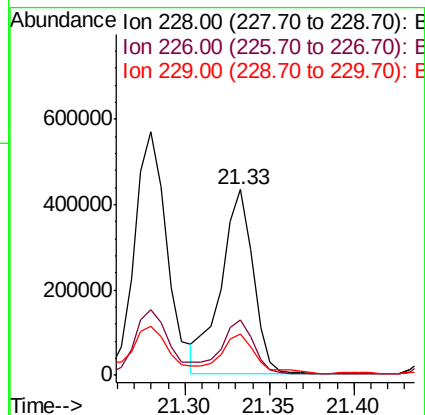
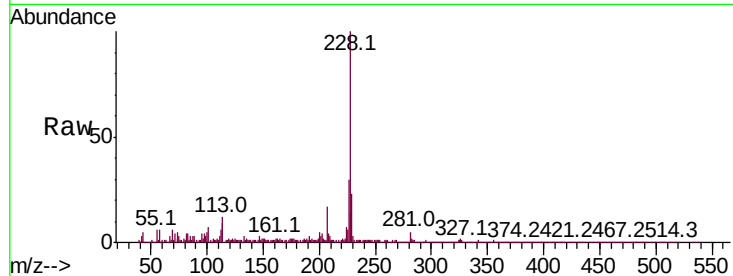
ClientSampleId :

OK-03-022219-BRE

Tot Ion:228	Resp:	577770
Ion Ratio	Lower	Upper
228 100		
226 29.7	24.1	36.1
229 22.5	16.0	24.0

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#86

Indeno(1,2,3-cd)pyrene

Concen: 5.731 ng

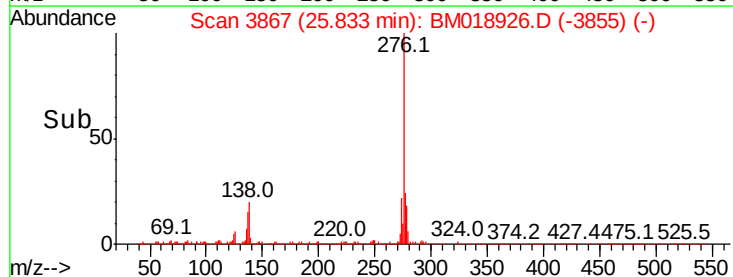
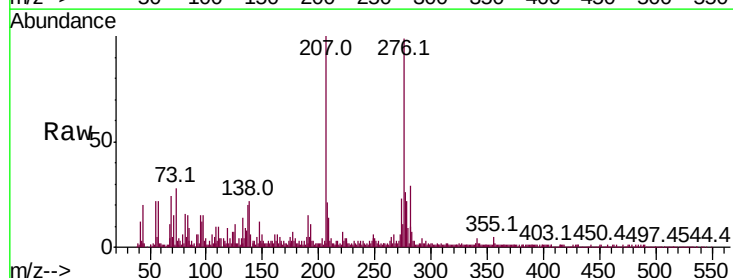
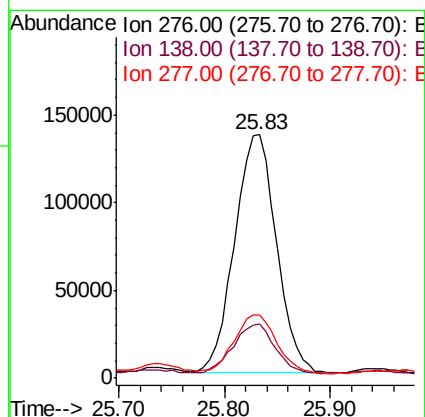
RT: 25.83 min Scan# 3867

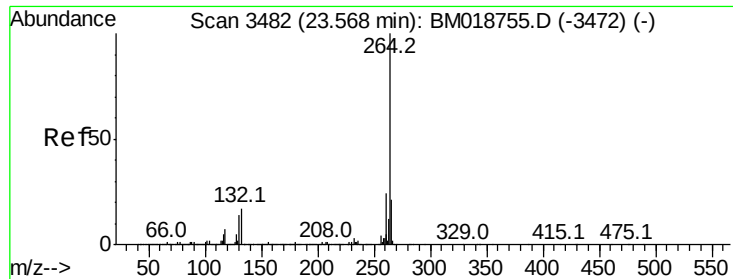
Delta R.T. -0.03 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Tgt Ion:276	Resp:	370744
Ion Ratio	Lower	Upper
276 100		
138 20.8	20.2	30.4
277 25.6	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.55 min Scan# 3479

Delta R.T. -0.02 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Instrument :

BNA_M

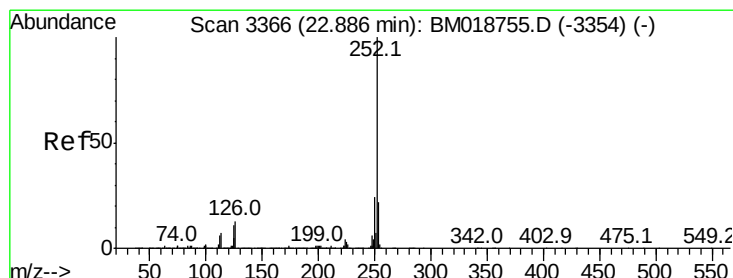
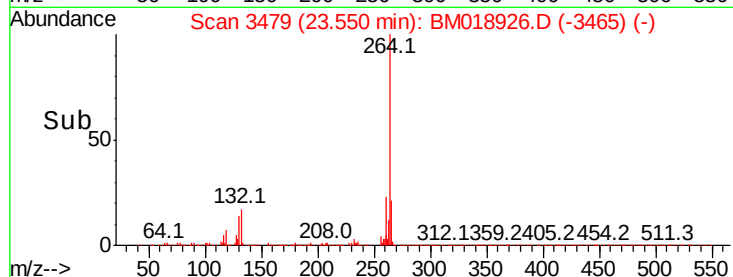
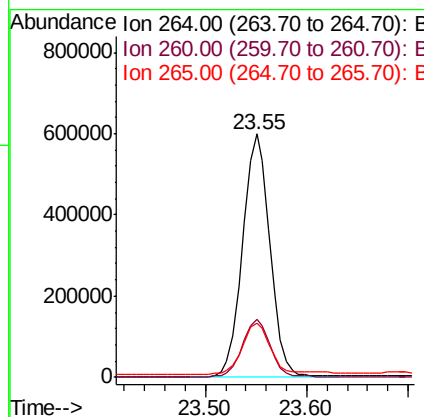
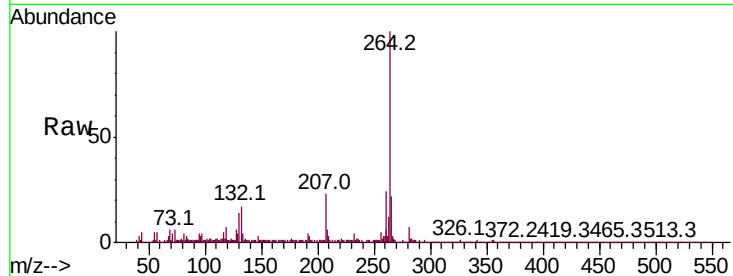
ClientSampleId :

OK-03-022219-BRE

Tot Ion:	264	Resp:	1109386
Ion Ratio	Lower	Upper	
264	100		
260	23.6	18.9	28.3
265	22.4	17.3	25.9

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#88

Benzo(b)fluoranthene

Concen: 12.481 ng m

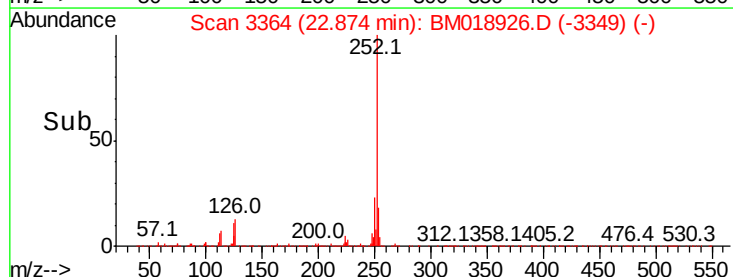
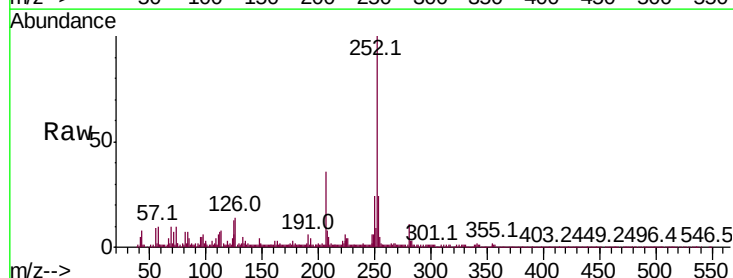
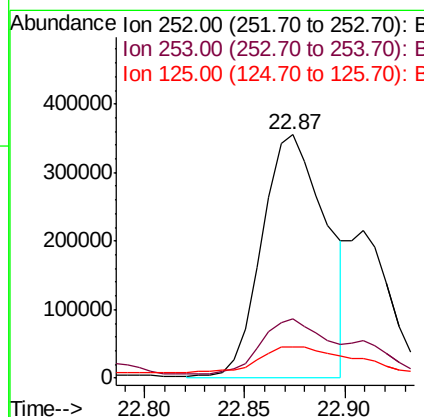
RT: 22.87 min Scan# 3364

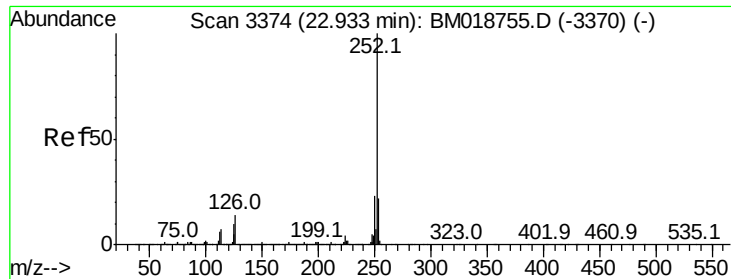
Delta R.T. -0.01 min

Lab File: BM018926.D

Acq: 25 Feb 2019 22:47

Tgt Ion:	252	Resp:	792175
Ion Ratio	Lower	Upper	
252	100		
253	24.1	17.8	26.6
125	12.8	8.6	12.8





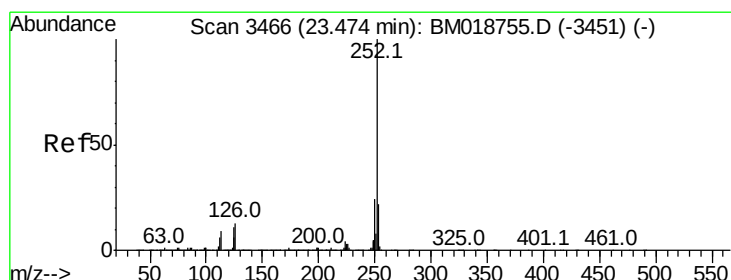
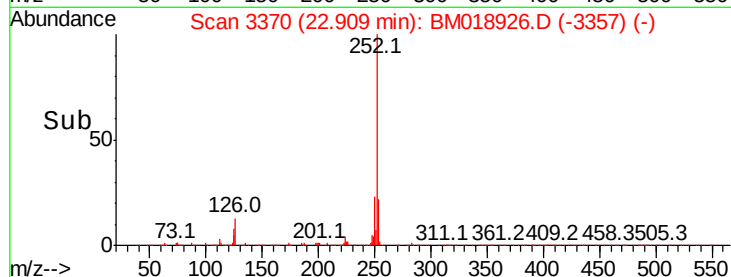
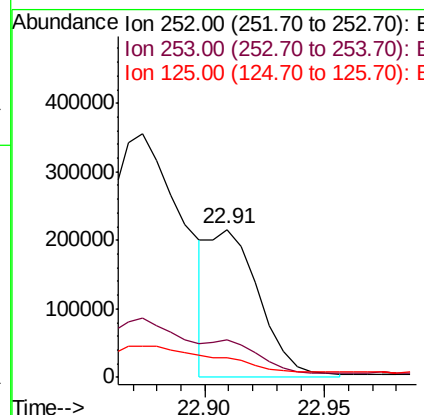
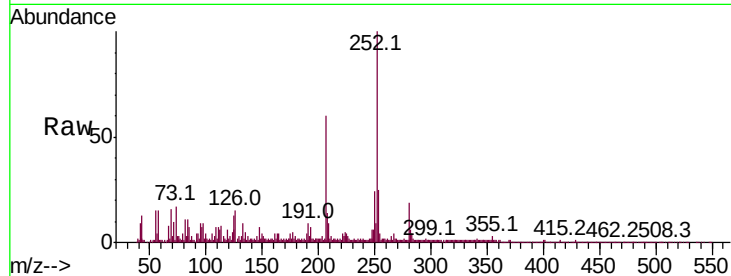
#89
Benzo(k)fluoranthene
Concen: 4.995 ng m
RT: 22.91 min Scan# 3370
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

Instrument :
BNA_M
ClientSampleId :
OK-03-022219-BRE

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.7	26.5
125	12.8	8.2	12.4

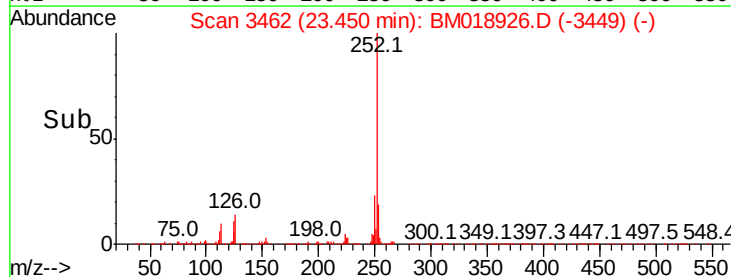
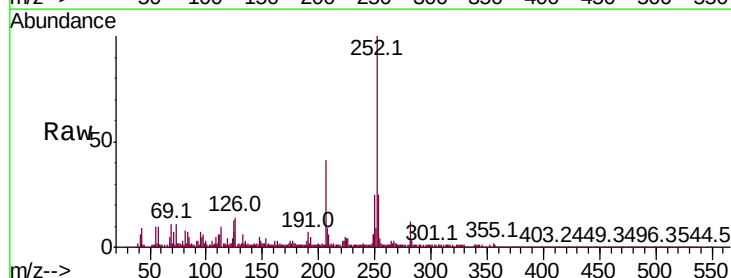
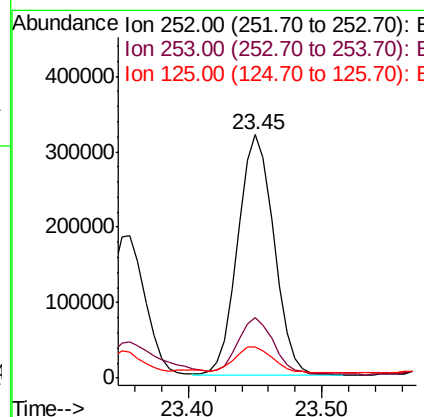
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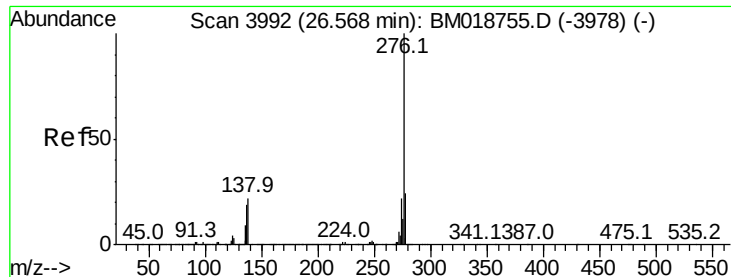
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#90
Benzo(a)pyrene
Concen: 9.954 ng
RT: 23.45 min Scan# 3462
Delta R.T. -0.02 min
Lab File: BM018926.D
Acq: 25 Feb 2019 22:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.4	26.0
125	13.0	8.6	13.0





#92
 Benzo(a,h,i)perylene
 Concen: 6.142 ng
 RT: 26.53 min Scan# 3986
 Delta R.T. -0.04 min
 Lab File: BM018926.D
 Acq: 25 Feb 2019 22:47

Instrument :
 BNA_M
 ClientSampleId :
 OK-03-022219-BRE

Tot Ion:	276	Resp:	340658
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.2	28.8
138	21.6	17.3	25.9

Manual Integrations
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