

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
 Data File : BM020207.D
 Acq On : 08 May 2019 22:36
 Operator : JU/SJ
 Sample : K2643-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-050719-A

Manual Integrations
 APPROVED

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 5/9/2019 6:45:40 PM

Quant Time: May 09 03:37:44 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	7.79	152	164259	20.00	ng	0.00
21) Naphthalene-d8	10.58	136	596710	20.00	ng	0.00
39) Acenaphthene-d10	14.43	164	342639	20.00	ng	0.00
64) Phenanthrene-d10	17.18	188	790275	20.00	ng	0.00
76) Chrysene-d12	21.36	240	808482	20.00	ng	0.00
87) Perylene-d12	23.66	264	956549	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	177661	17.68	ng	0.00
7) Phenol-d6	6.95	99	238157	17.35	ng	0.00
23) Nitrobenzene-d5	8.95	82	166659	11.03	ng	0.00
42) 2,4,6-Tribromophenol	15.92	330	93304	17.54	ng	0.00
45) 2-Fluorobiphenyl	13.05	172	299675	10.76	ng	-0.01
79) Terphenyl-d14	19.80	244	457959	9.88	ng	0.00
Target Compounds						
31) Naphthalene	10.63	128	179978	5.812	ng	99
37) 2-Methylnaphthalene	12.25	142	107340	4.755	ng	97
38) 1-Methylnaphthalene	12.46	142	129988	5.888	ng	98
49) Acenaphthylene	14.16	152	80758	2.241	ng	96
52) Acenaphthene	14.49	154	121669	5.888	ng	99
55) Dibenzofuran	14.83	168	141735	4.066	ng	97
58) Fluorene	15.48	166	171815	6.002	ng	99
71) Phenanthrene	17.22	178	921480	21.123	ng	100
72) Anthracene	17.32	178	276658	6.343	ng	100
75) Fluoranthene	19.24	202	1091831	19.781	ng	99
78) Pyrene	19.60	202	1030924	18.992	ng	99
81) Benzo(a)anthracene	21.35	228	476764m	8.409	ng	
83) Chrysene	21.40	228	436292m	7.934	ng	
86) Indeno(1,2,3-cd)pyrene	26.00	276	283364	4.332	ng	# 100
88) Benzo(b)fluoranthene	22.97	252	570340	9.029	ng	# 92
89) Benzo(k)fluoranthene	23.01	252	175040m	3.038	ng	
90) Benzo(a)pyrene	23.56	252	447441	7.799	ng	# 93
92) Benzo(g,h,i)perylene	26.71	276	284191	5.017	ng	93

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

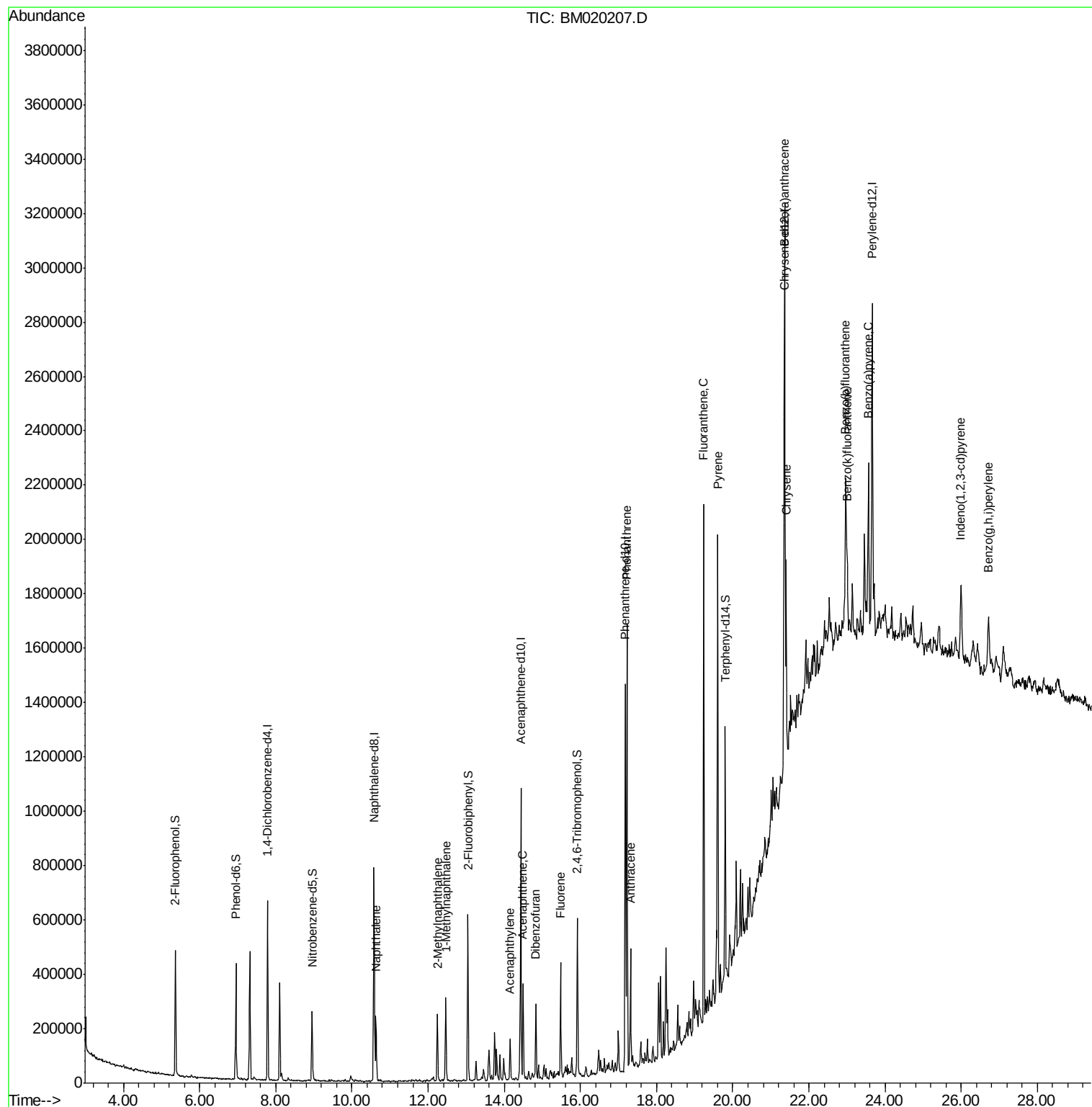
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
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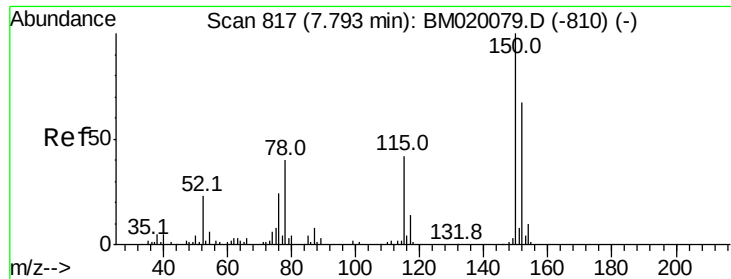
Instrument :
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#1

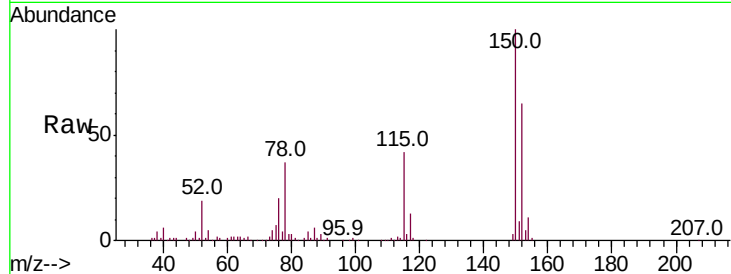
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.79 min Scan# 816
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.4	119.8	179.8
115	64.7	50.8	76.2

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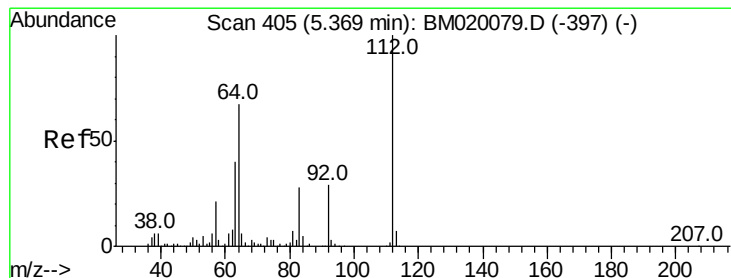
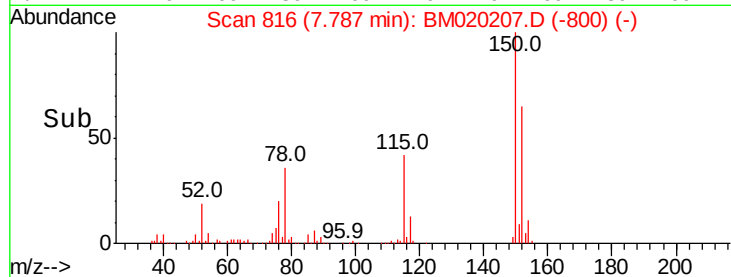
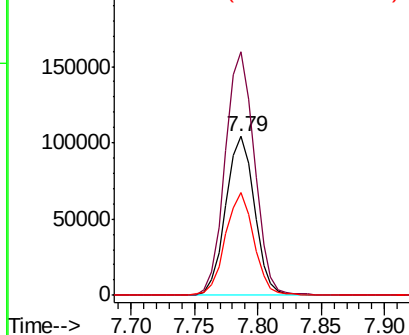


Abundance

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: 17.680 ng
RT: 5.36 min Scan# 404
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

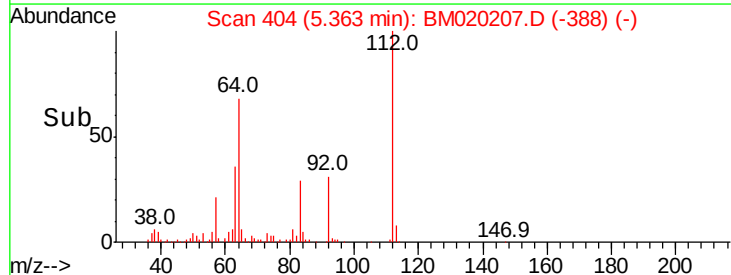
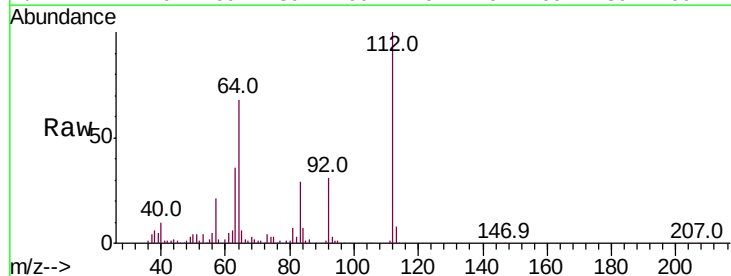
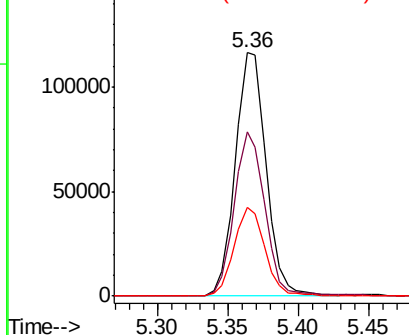
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.6	53.8	80.6
63	36.2	32.3	48.5

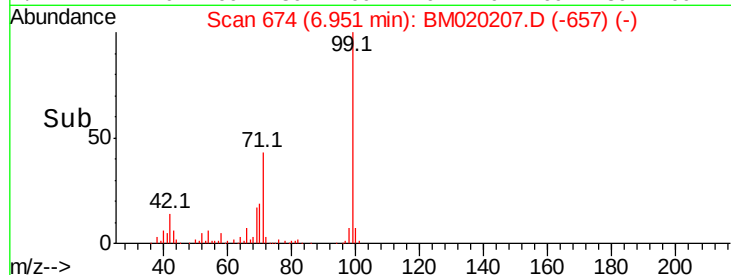
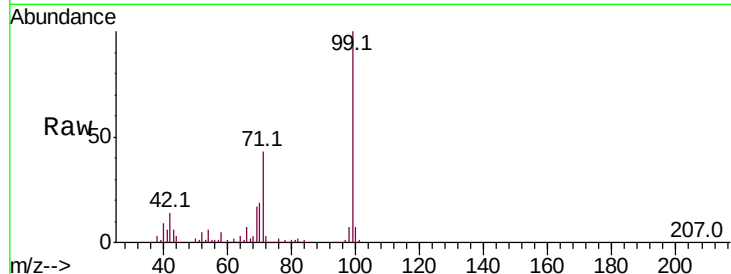
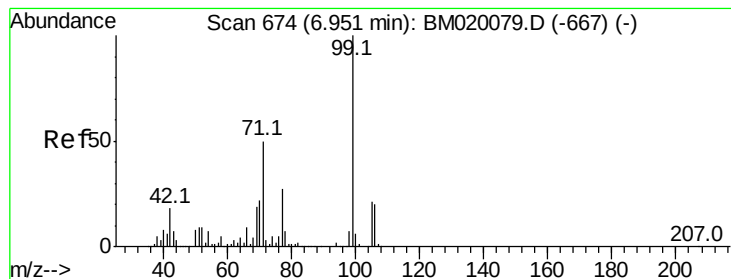
Abundance

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: 17.348 ng

RT: 6.95 min Scan# 674

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Tot Ion	Ratio	Resp	Lower	Upper
99	100			
42	13.8	14.2	21.2#	
71	43.5	40.3	60.5	

Instrument :

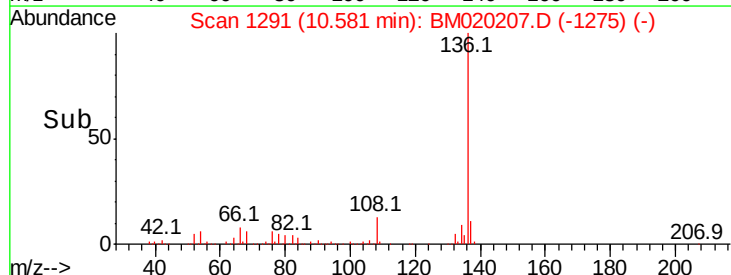
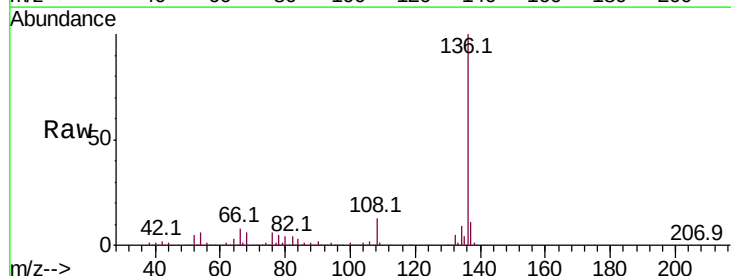
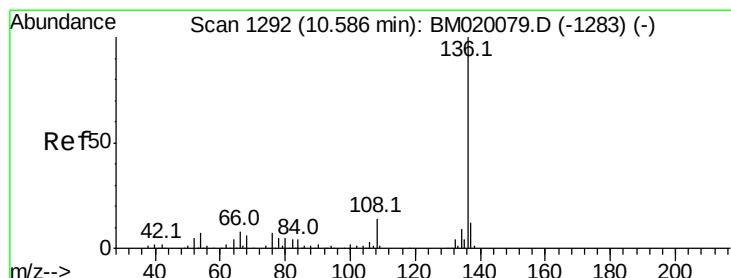
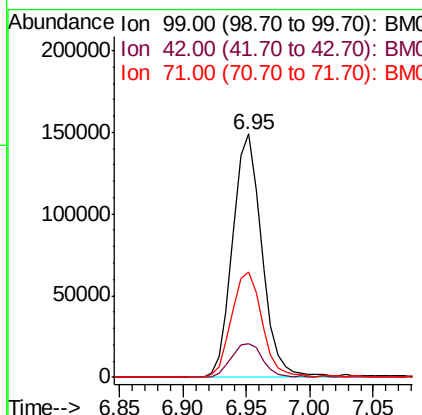
BNA_M

ClientSampleId :

OR-03-050719-A

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#21

Naphthalene-d8

Concen: 20.000 ng

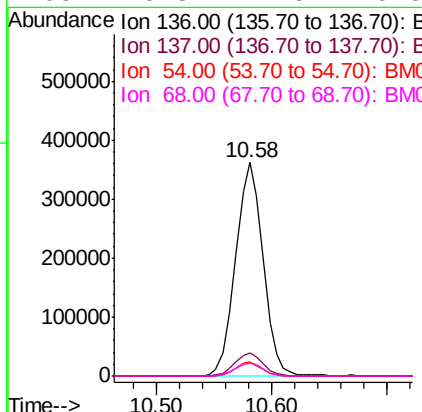
RT: 10.58 min Scan# 1291

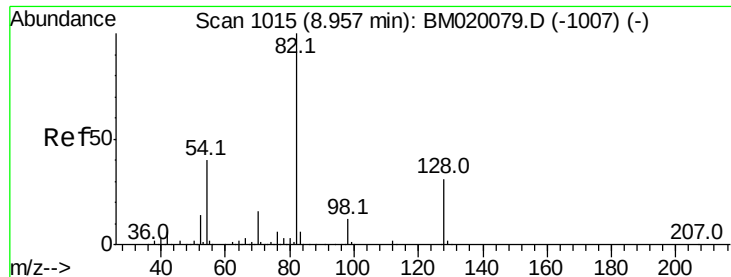
Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	9.6	14.4	
54	6.3	5.5	8.3	
68	6.3	4.6	6.8	





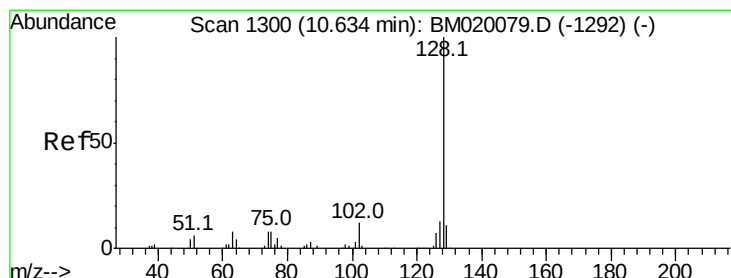
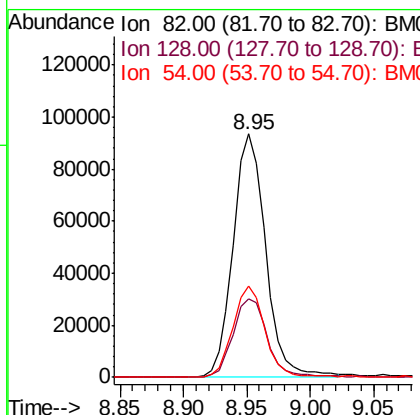
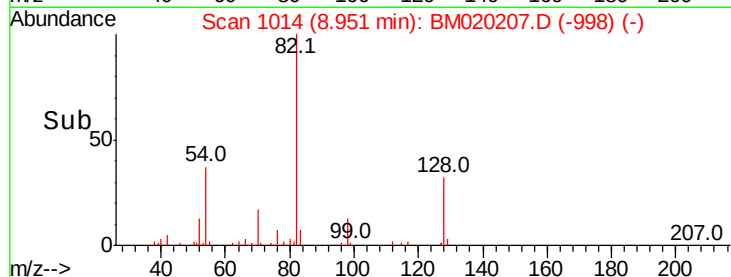
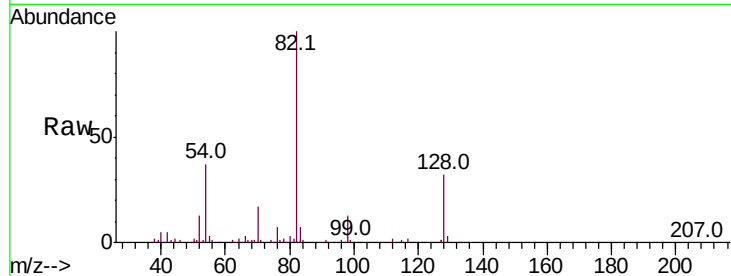
#23
Nitrobenzene-d5
Concen: 11.027 ng
RT: 8.95 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	32.2	25.2	37.8	
54	37.5	31.9	47.9	

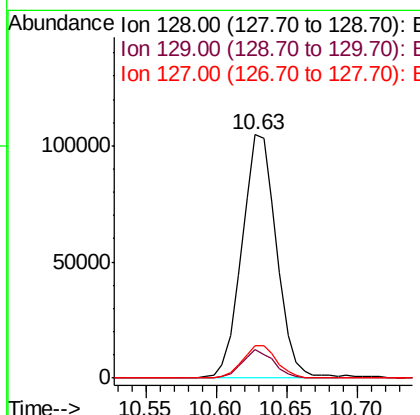
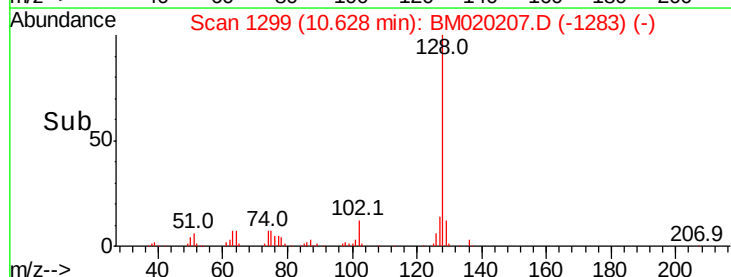
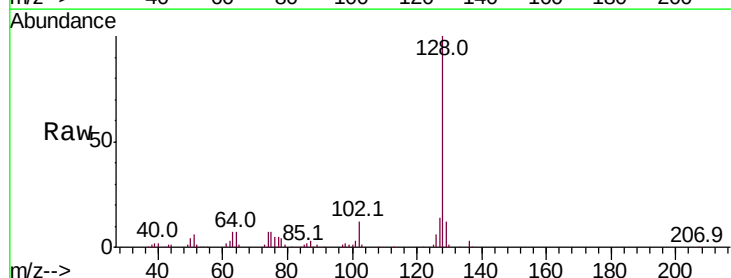
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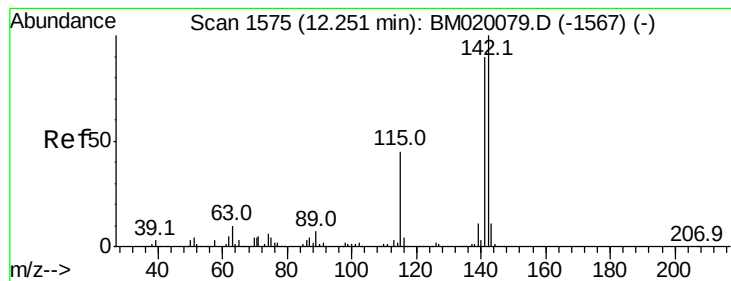
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#31
Naphthalene
Concen: 5.812 ng
RT: 10.63 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.8	9.0	13.4	
127	13.5	10.4	15.6	





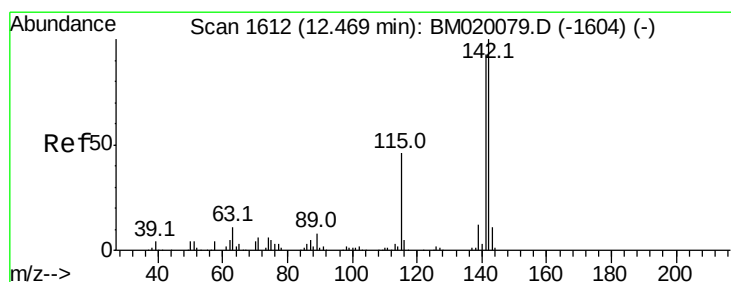
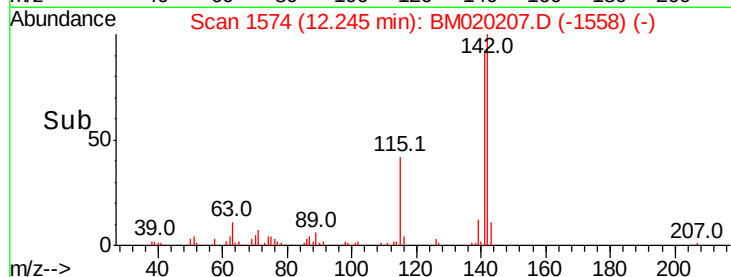
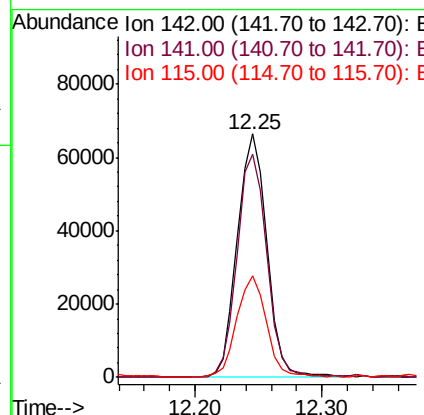
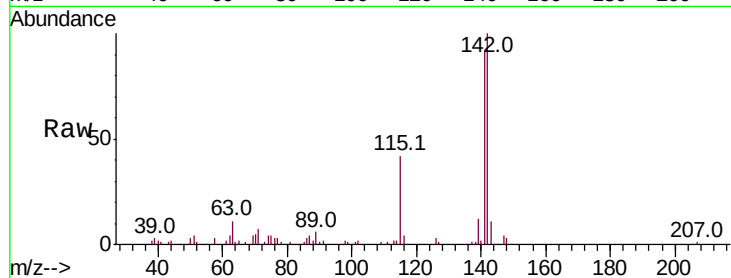
#37
2-Methylnaphthalene
Concen: 4.755 ng
RT: 12.25 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.7	71.6	107.4
115	41.6	35.8	53.6

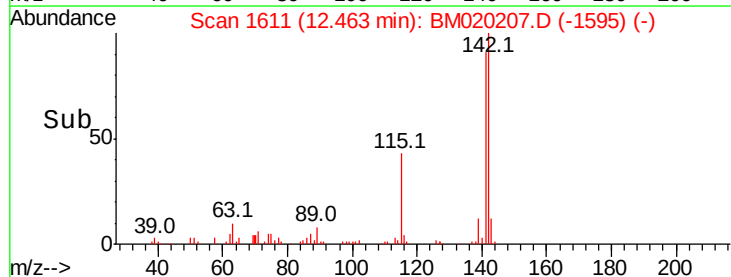
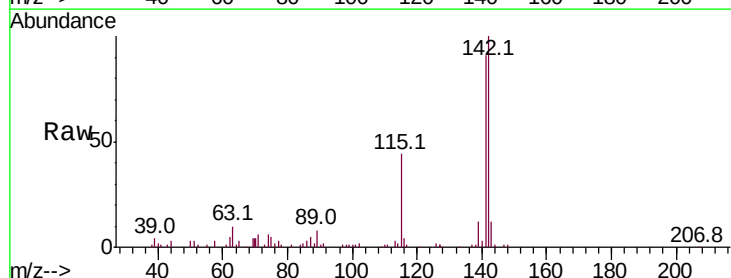
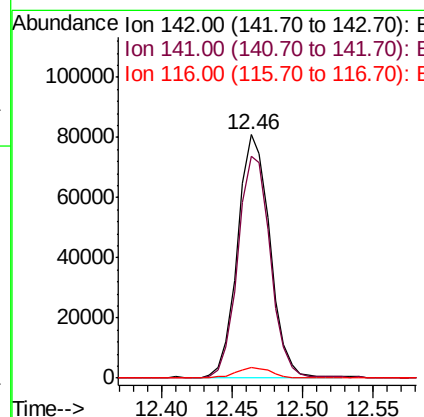
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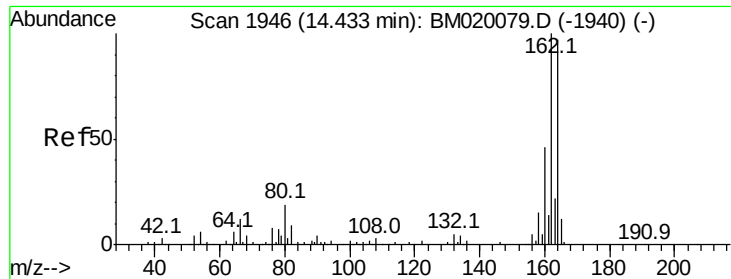
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#38
1-Methylnaphthalene
Concen: 5.888 ng
RT: 12.46 min Scan# 1611
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.3	74.8	112.2
116	4.3	3.9	5.9





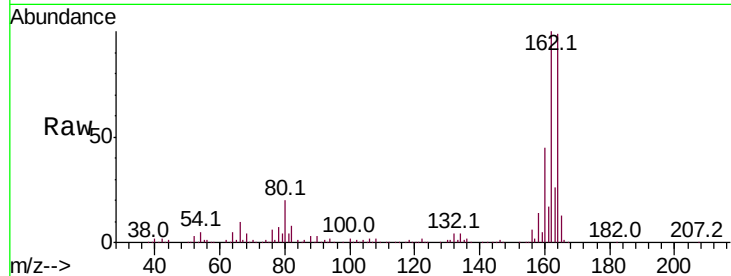
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.43 min Scan# 1946
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.2	123.2
160	45.4	37.6	56.4

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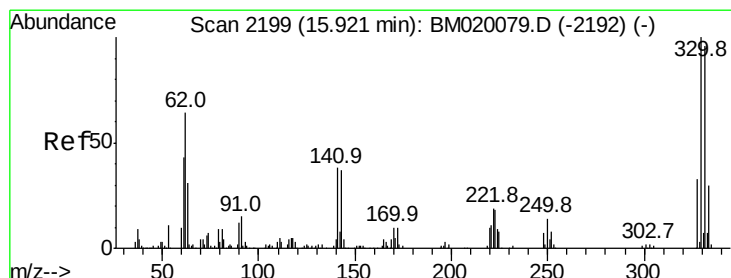
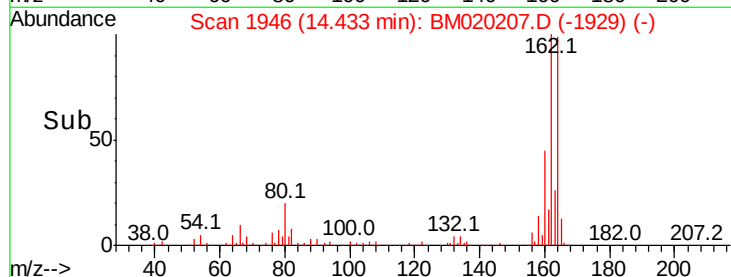
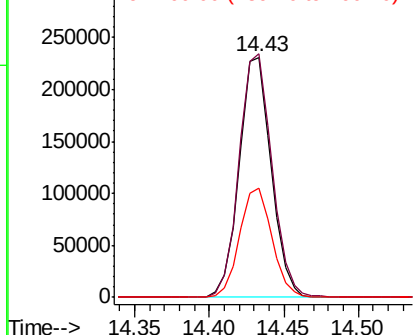


Abundance

Ion 164.00 (163.70 to 164.70): E

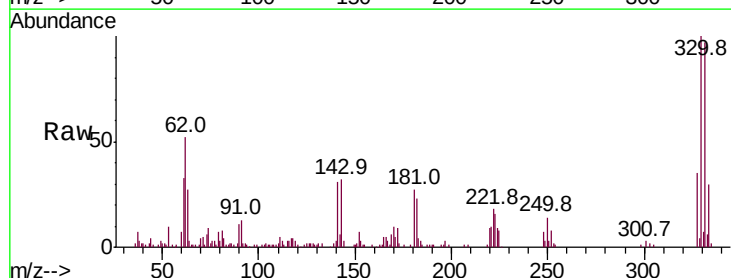
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 17.544 ng
RT: 15.92 min Scan# 2199
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.8	115.2
141	33.1	29.2	43.8

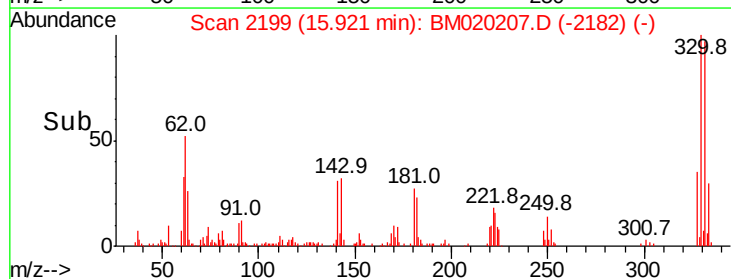
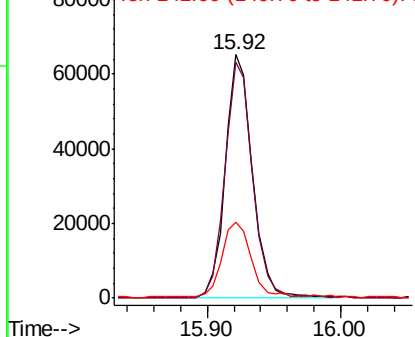


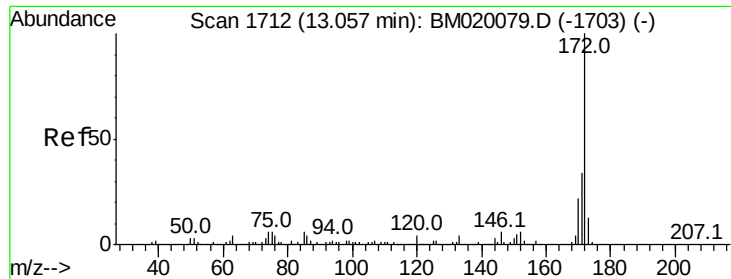
Abundance

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





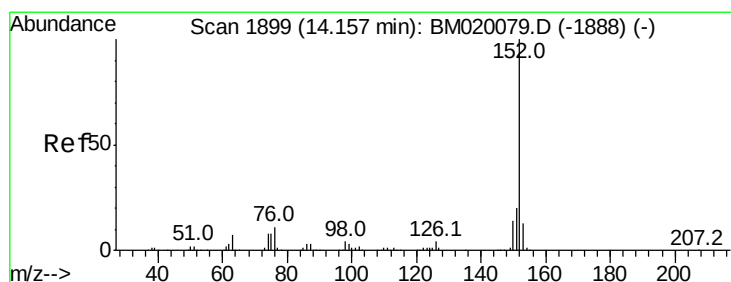
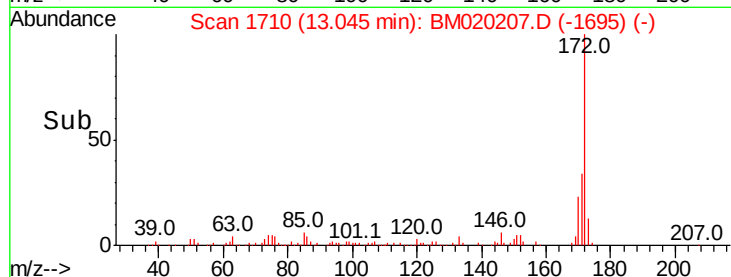
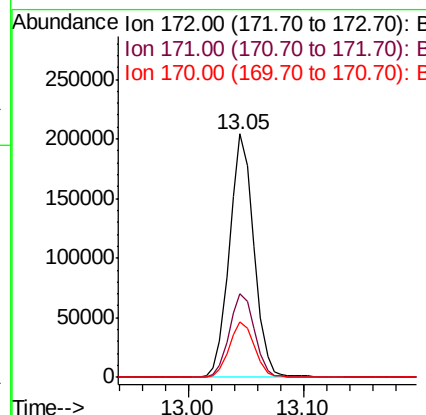
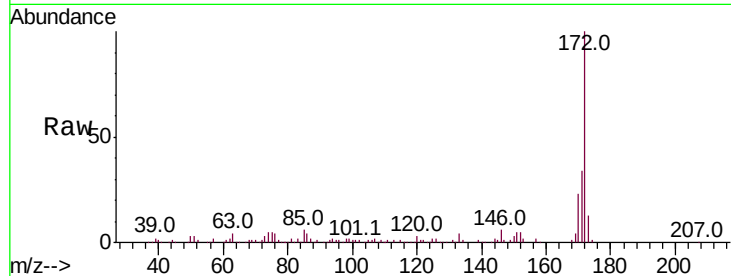
#45
2-Fluorobiphenyl
Concen: 10.761 ng
RT: 13.05 min Scan# 1710
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Resp	Lower	Upper
172	100	299675		
171	34.5		27.3	40.9
170	23.0		17.9	26.9

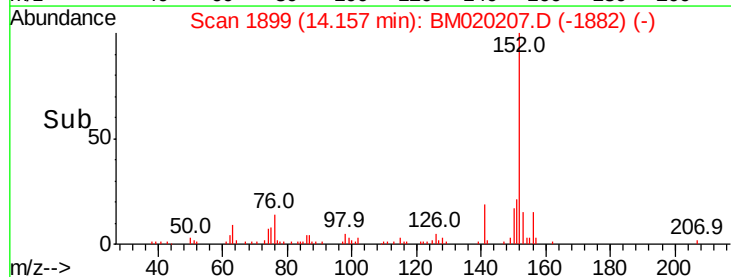
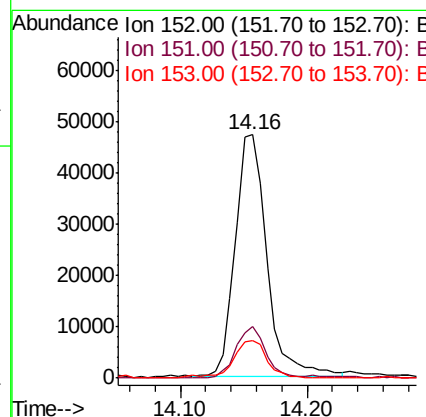
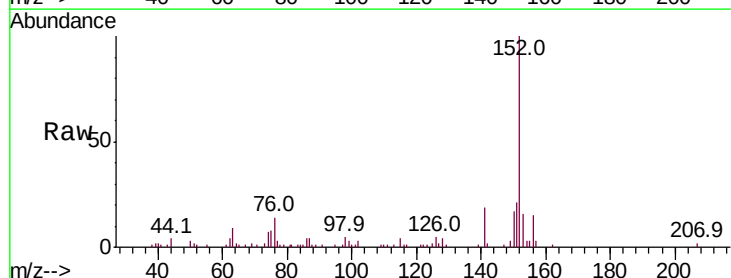
Manual Integrations
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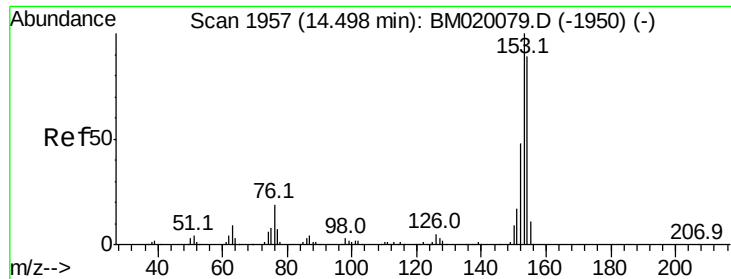
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#49
Acenaphthylene
Concen: 2.241 ng
RT: 14.16 min Scan# 1899
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	80758		
151	21.3		16.2	24.2
153	15.6		10.6	16.0





#52

Acenaphthene

Concen: 5.888 ng

RT: 14.49 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

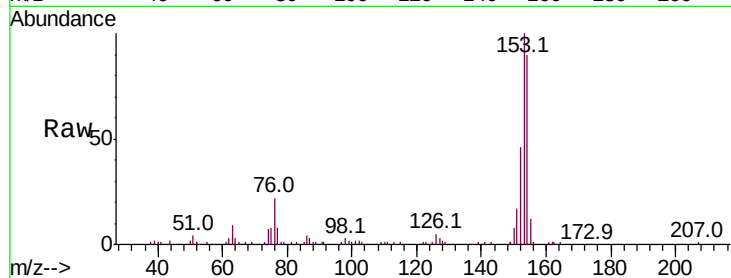
ClientSampleId :

OR-03-050719-A

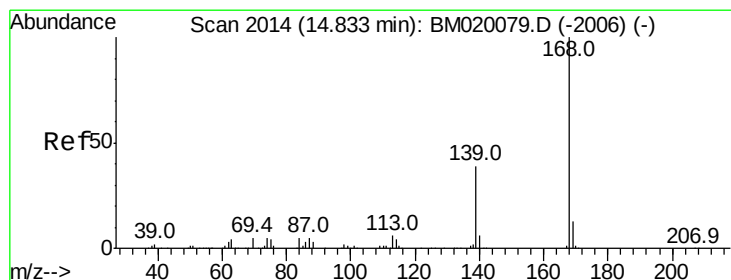
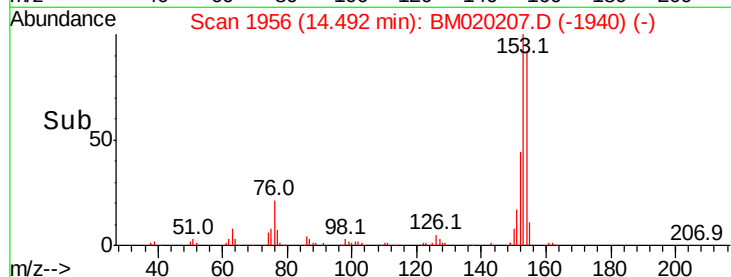
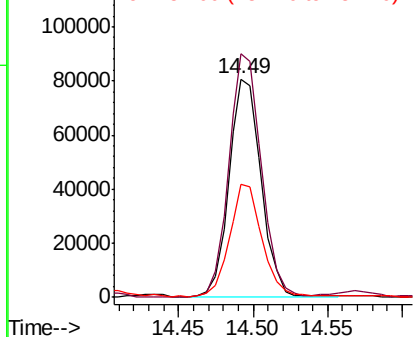
Tot Ion:	154	Resp:	121669
Ion Ratio	Lower	Upper	
154	100		
153	111.7	90.2	135.2
152	51.9	43.0	64.4

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: 4.066 ng

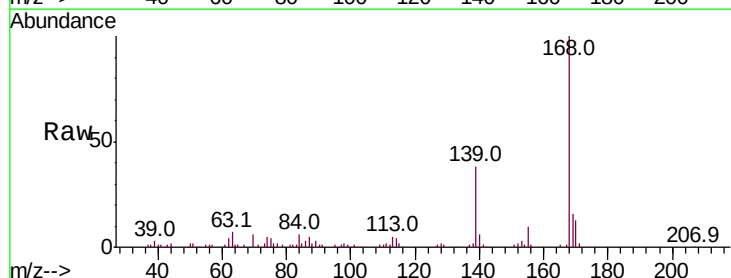
RT: 14.83 min Scan# 2013

Delta R.T. -0.01 min

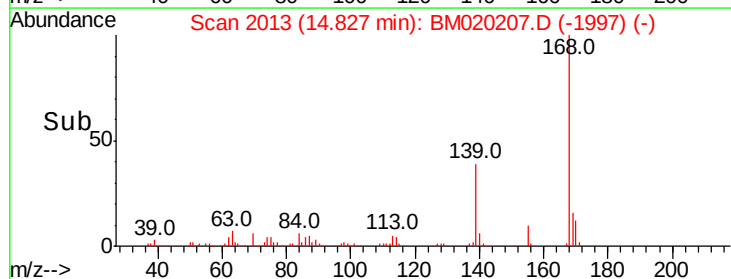
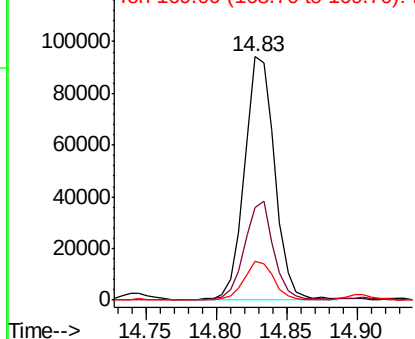
Lab File: BM020207.D

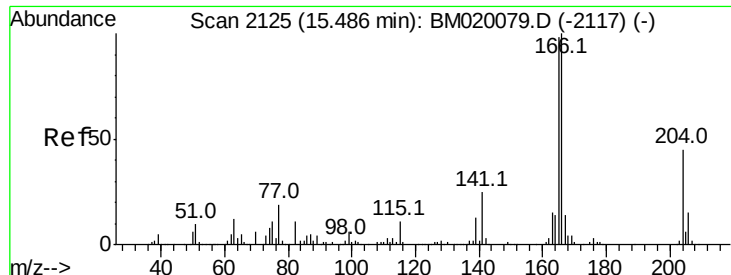
Acq: 08 May 2019 22:36

Tgt Ion:	168	Resp:	141735
Ion Ratio	Lower	Upper	
168	100		
139	37.9	31.1	46.7
169	16.0	10.6	16.0



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





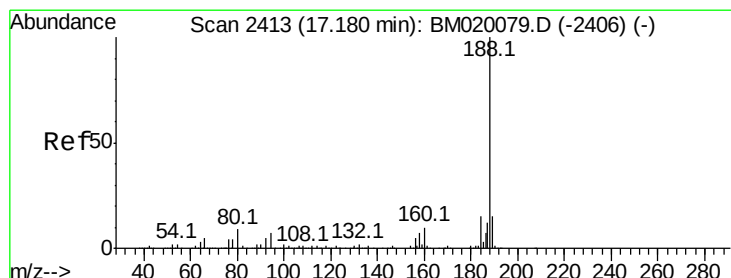
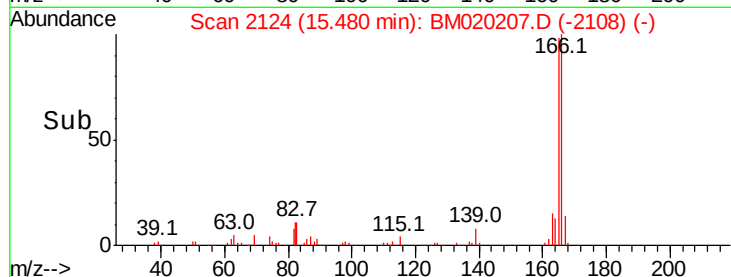
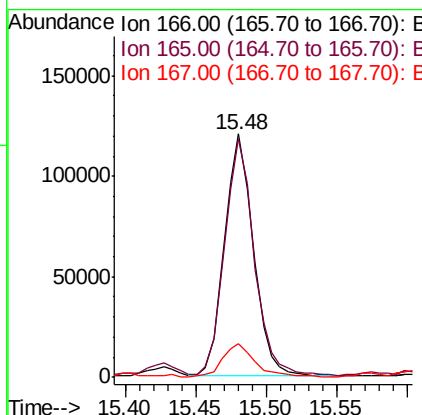
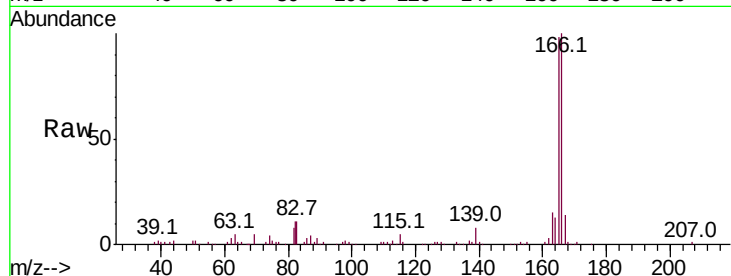
#58
 Fluorene
 Concen: 6.002 ng
 RT: 15.48 min Scan# 2124
 Delta R.T. -0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-050719-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	171815		
165	98.2	78.2	117.2	
167	14.1	11.0	16.4	

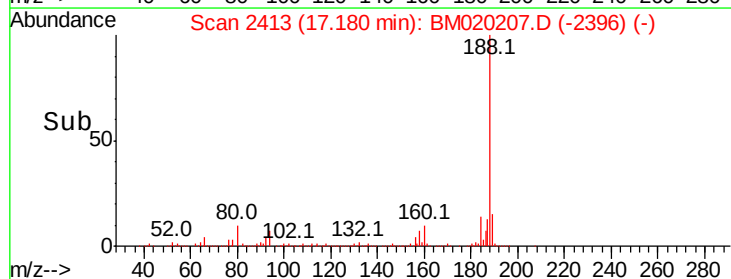
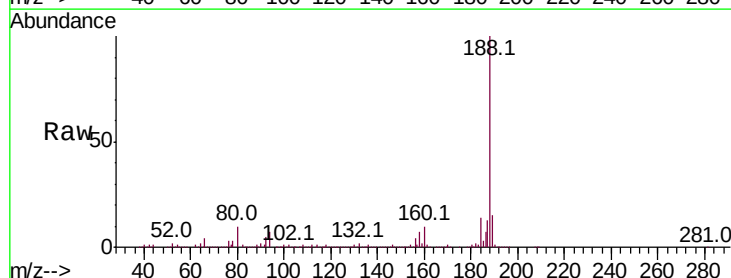
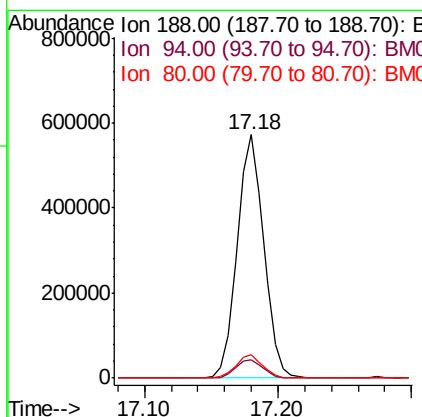
Manual Integrations
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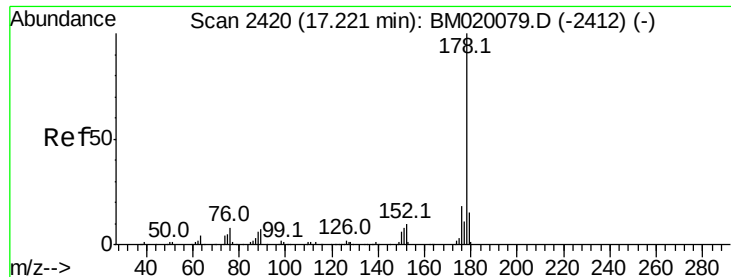
Sohil
 5/9/2019 6:45:40 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.18 min Scan# 2413
 Delta R.T. 0.00 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	790275		
94	7.5	5.8	8.6	
80	9.5	7.4	11.2	





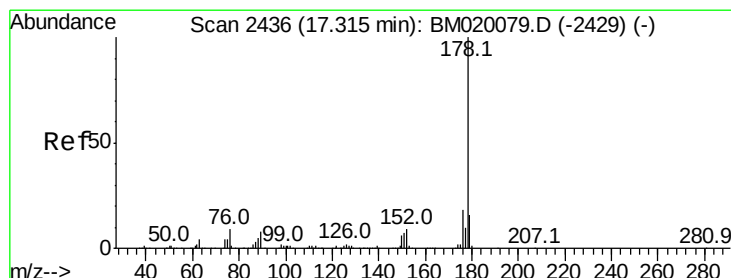
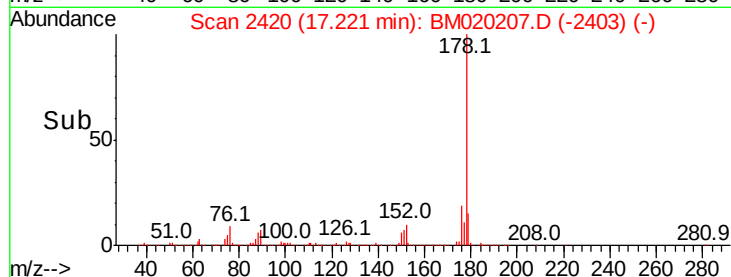
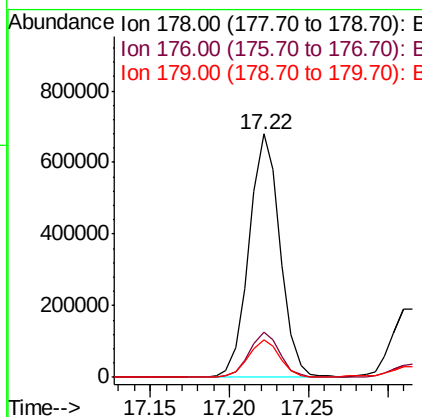
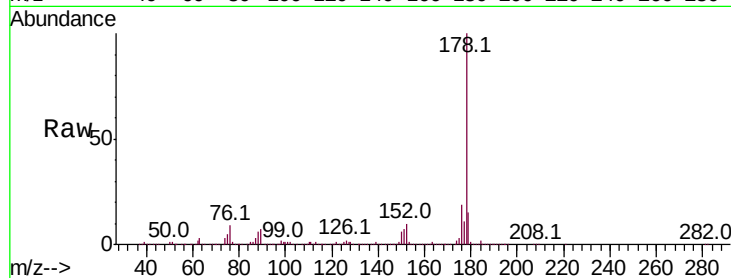
#71
Phenanthrene
Concen: 21.123 ng
RT: 17.22 min Scan# 2420
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	15.5	12.4	18.6

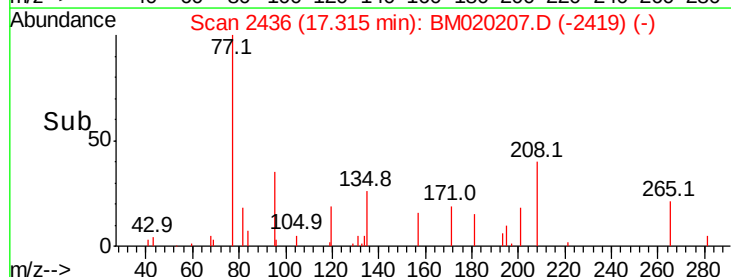
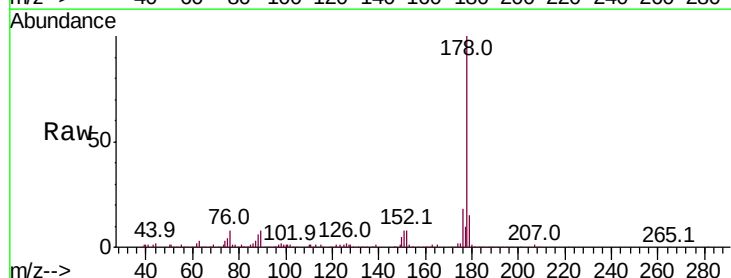
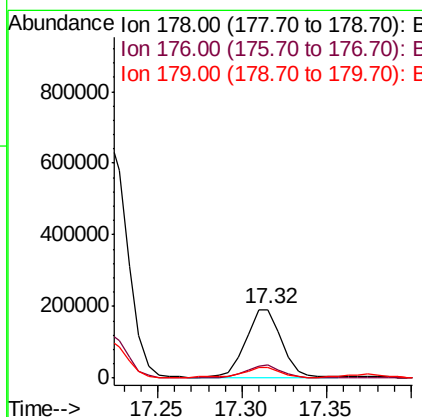
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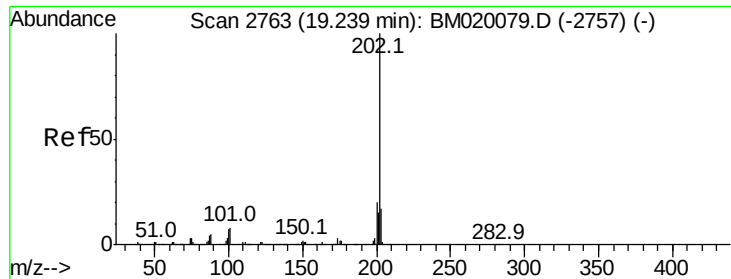
Sohil
5/9/2019 6:45:40 PM



#72
Anthracene
Concen: 6.343 ng
RT: 17.32 min Scan# 2436
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.3	12.4	18.6





#75

Fluoranthene

Concen: 19.781 ng

RT: 19.24 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

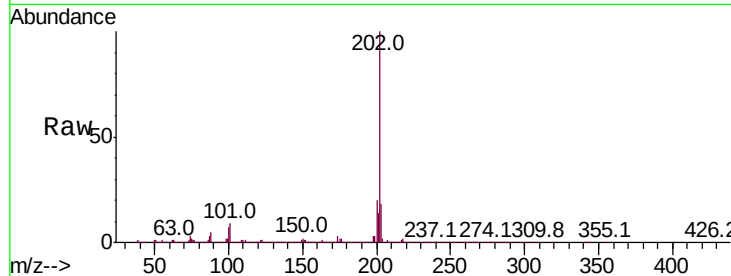
ClientSampleId :

OR-03-050719-A

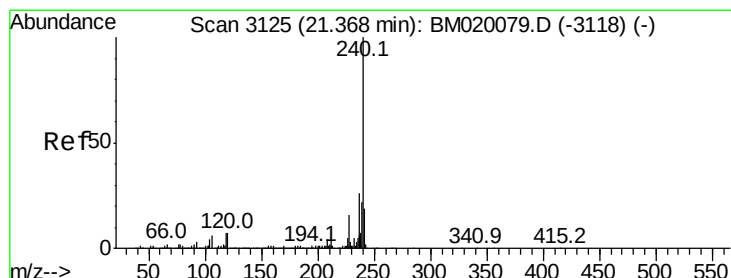
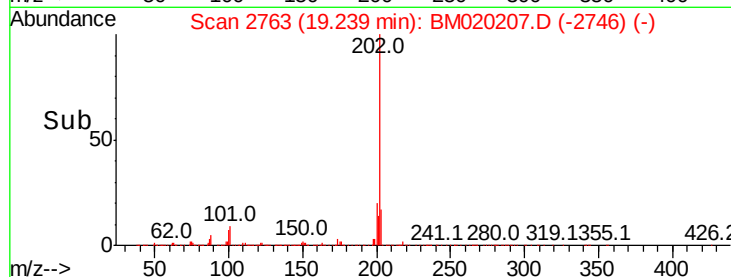
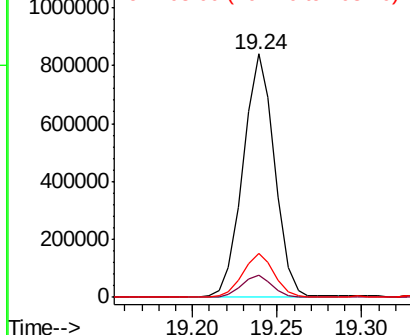
Tot Ion:	202	Resp:	1091831
Ion Ratio	Lower	Upper	
202	100		
101	8.9	0.0	28.4
203	17.8	0.0	37.4

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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

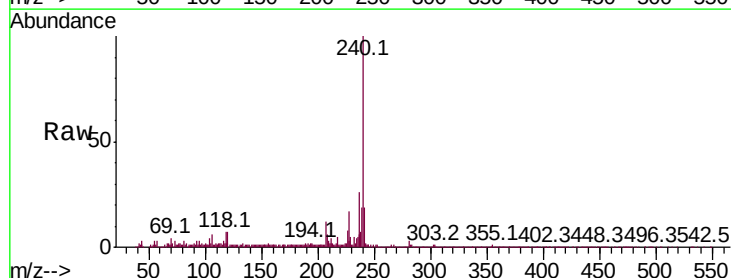
RT: 21.36 min Scan# 3124

Delta R.T. -0.01 min

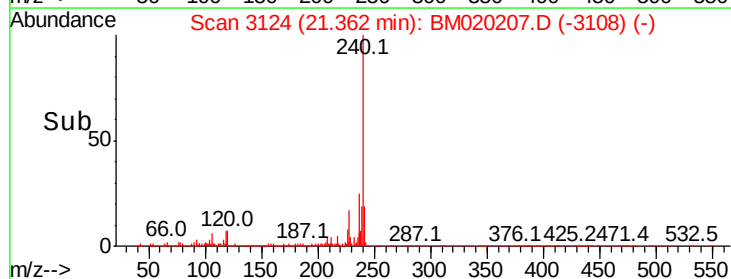
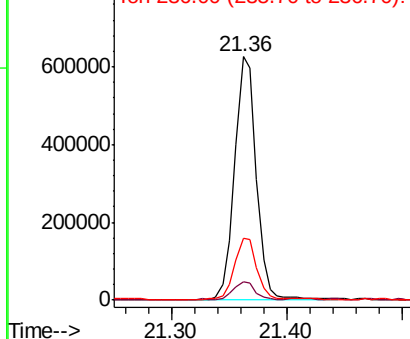
Lab File: BM020207.D

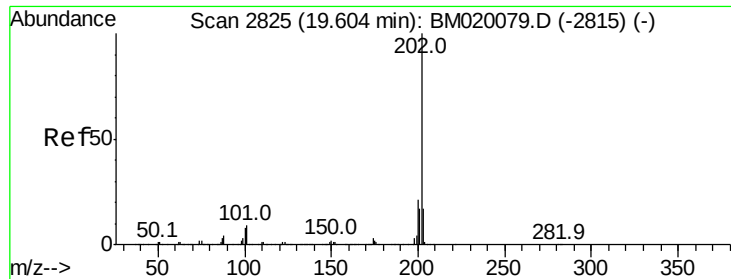
Acq: 08 May 2019 22:36

Tgt Ion:	240	Resp:	808482
Ion Ratio	Lower	Upper	
240	100		
120	7.3	5.6	8.4
236	25.5	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





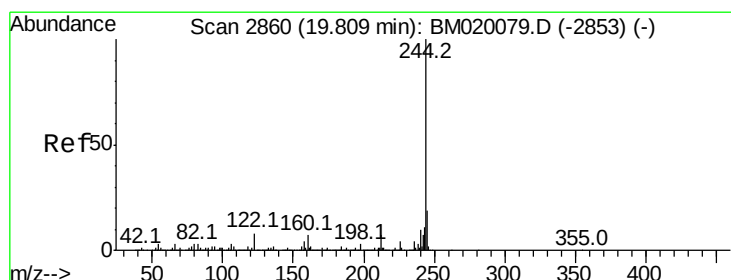
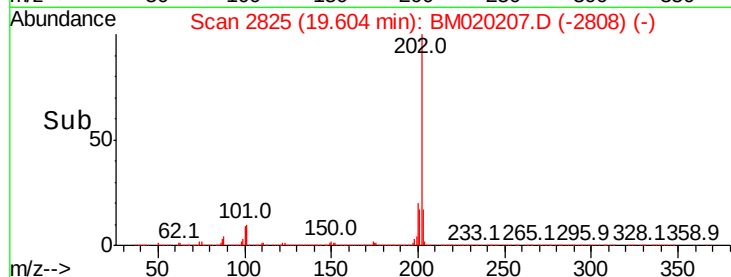
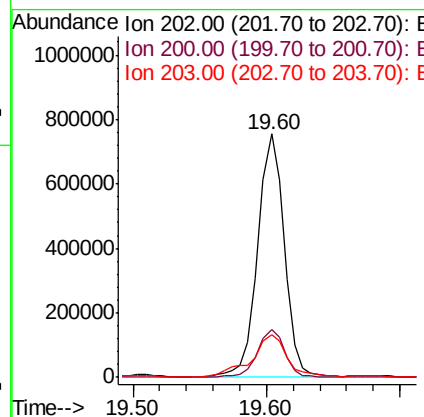
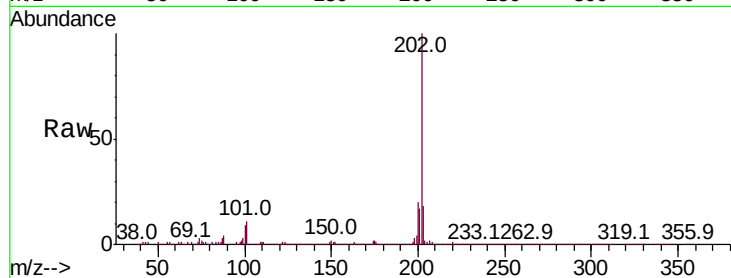
#78
Pvrene
Concen: 18.992 ng
RT: 19.60 min Scan# 2825
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.5	24.7
203	17.6	13.9	20.9

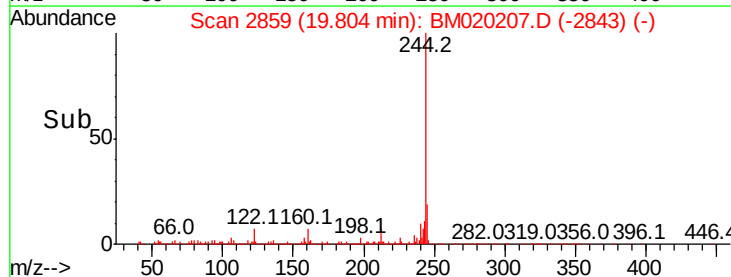
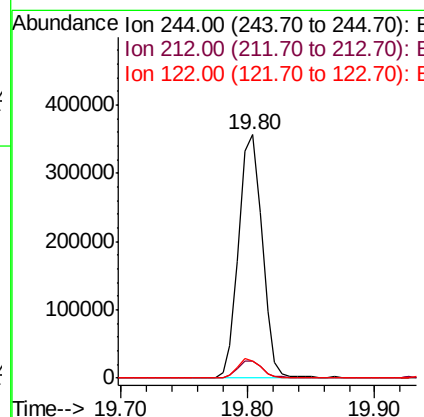
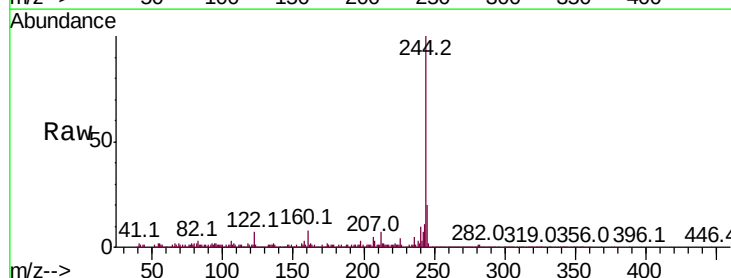
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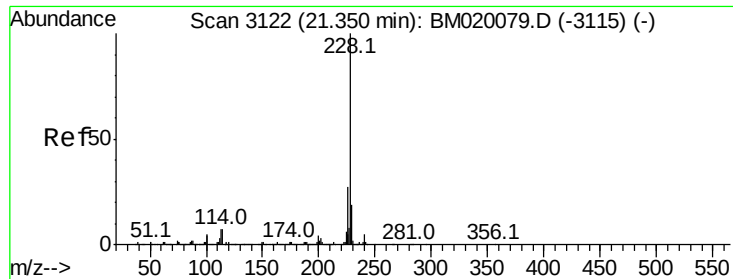
Sohil
5/9/2019 6:45:40 PM



#79
Terphenyl-d14
Concen: 9.880 ng
RT: 19.80 min Scan# 2859
Delta R.T. -0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	6.9	6.2	9.2





#81

Benzo(a)anthracene

Concen: 8.409 ng m

RT: 21.35 min Scan# 3122

Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Instrument :

BNA_M

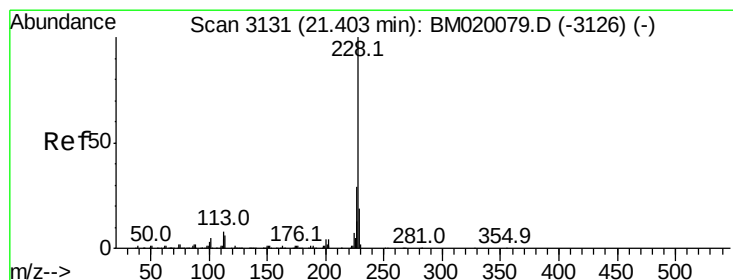
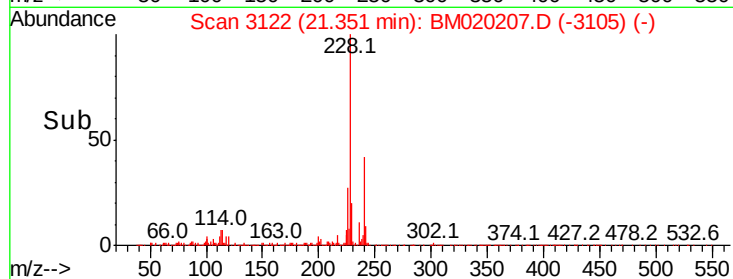
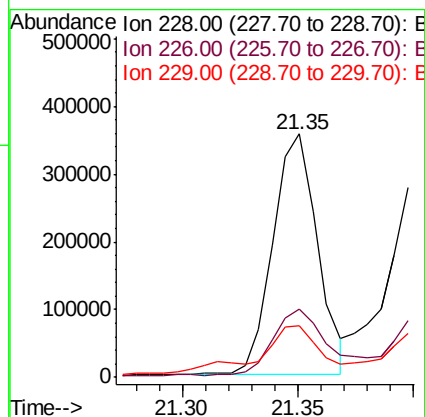
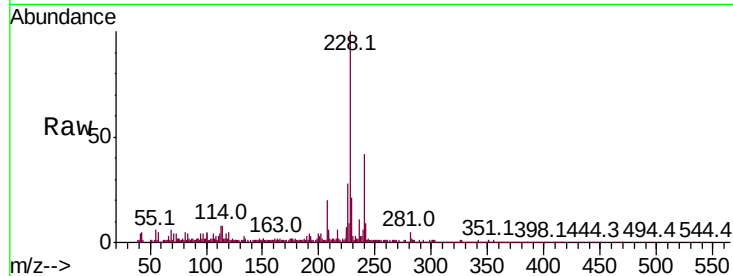
ClientSampleId :

OR-03-050719-A

Tot Ion:	228	Resp:	476764
Ion Ratio	Lower	Upper	
228	100		
226	28.0	21.3	31.9
229	21.3	15.5	23.3

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5/9/2019 6:45:40 PM



#83

Chrysene

Concen: 7.934 ng m

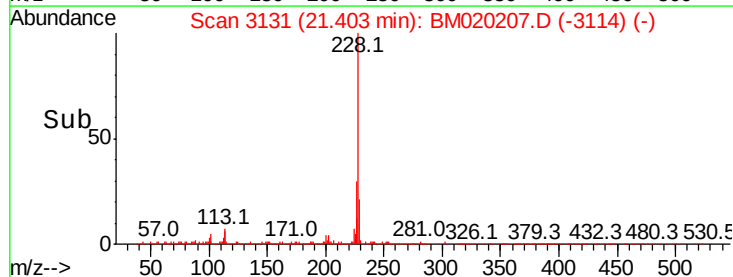
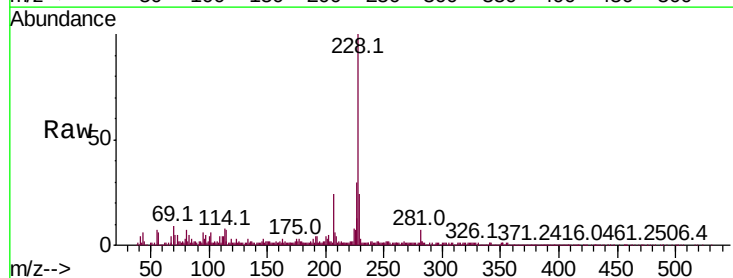
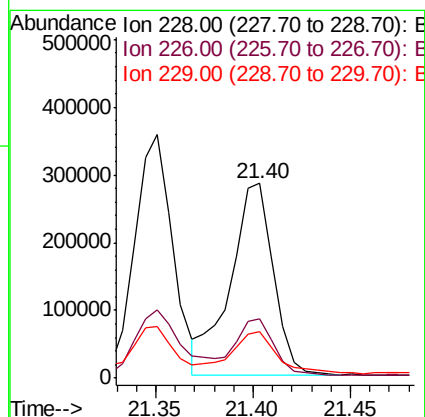
RT: 21.40 min Scan# 3131

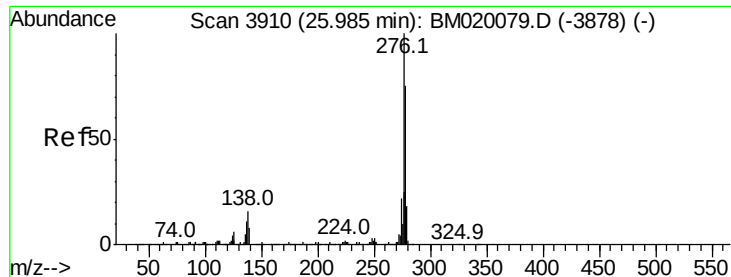
Delta R.T. 0.00 min

Lab File: BM020207.D

Acq: 08 May 2019 22:36

Tgt Ion:	228	Resp:	436292
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.0	34.6
229	24.1	15.5	23.3#





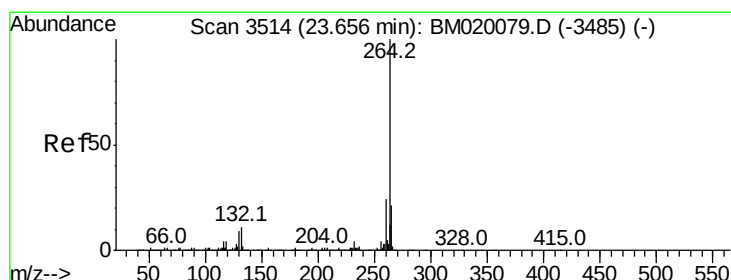
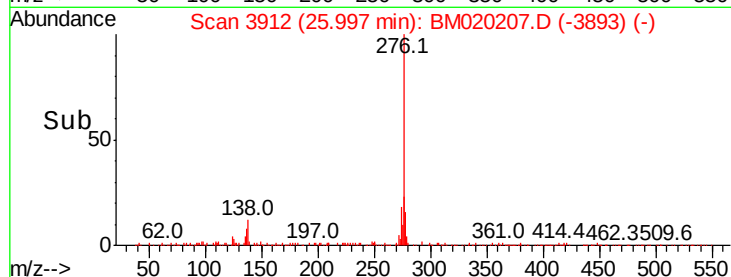
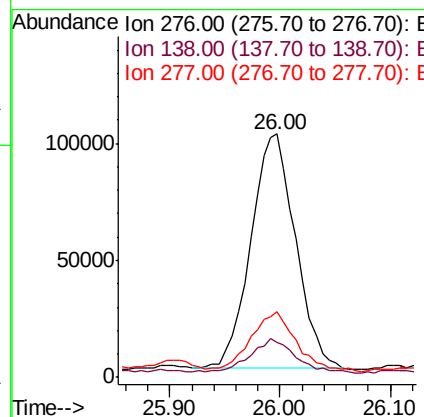
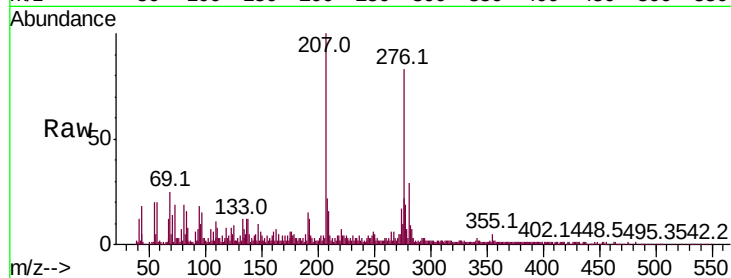
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.332 ng
 RT: 26.00 min Scan# 3912
 Delta R.T. 0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-050719-A

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	13.1	0.0	0.0#
277	23.8	0.0	0.0#

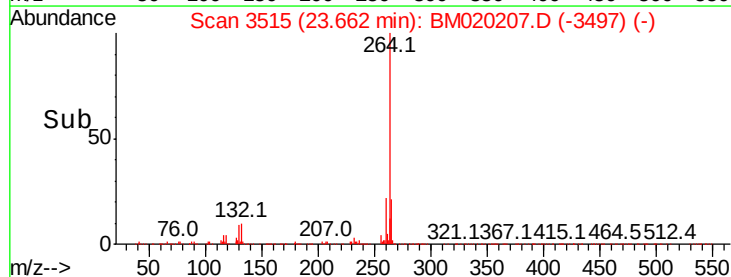
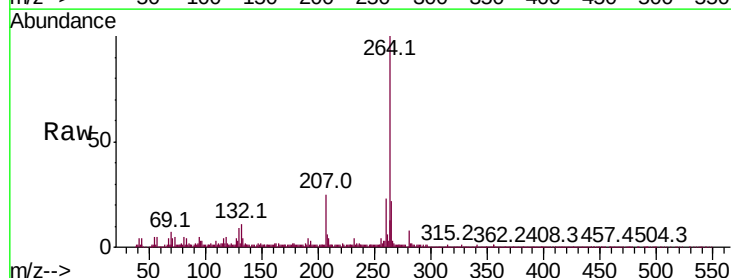
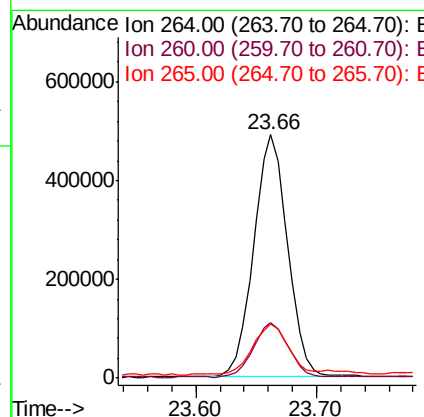
Manual Integrations
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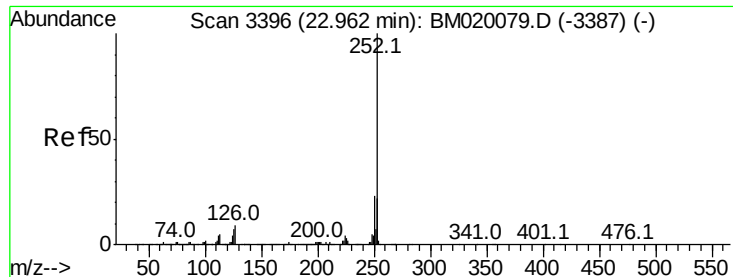
Sohil
 5/9/2019 6:45:40 PM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.66 min Scan# 3515
 Delta R.T. 0.01 min
 Lab File: BM020207.D
 Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	22.8	19.2	28.8
265	22.5	16.9	25.3





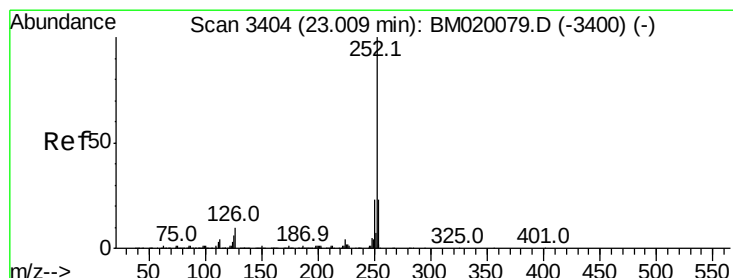
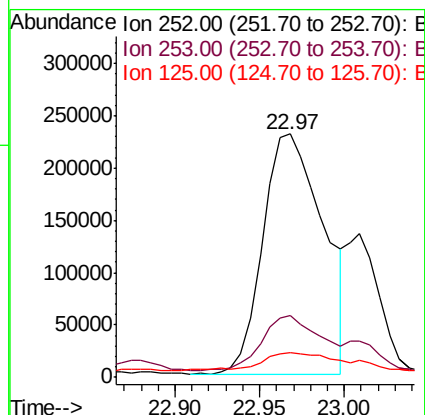
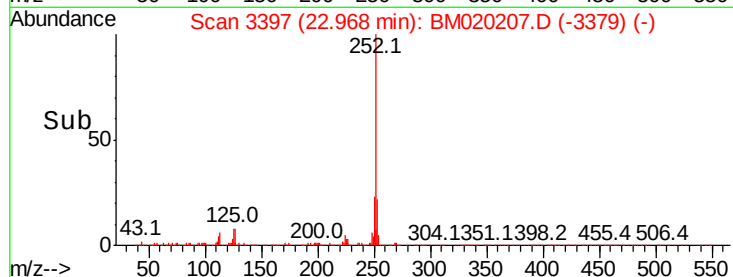
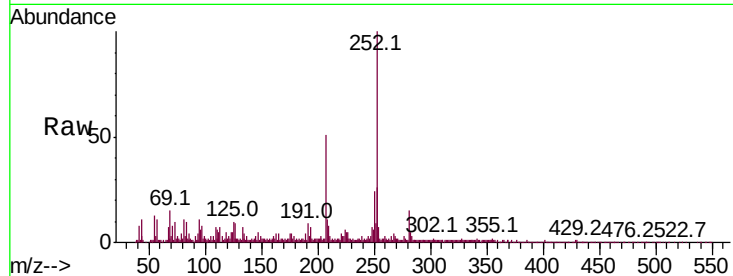
#88
Benzo(b)fluoranthene
Concen: 9.029 ng
RT: 22.97 min Scan# 3397
Delta R.T. 0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.5	26.3
125	10.1	5.4	8.2

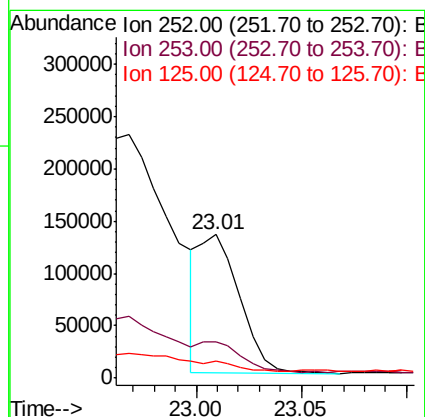
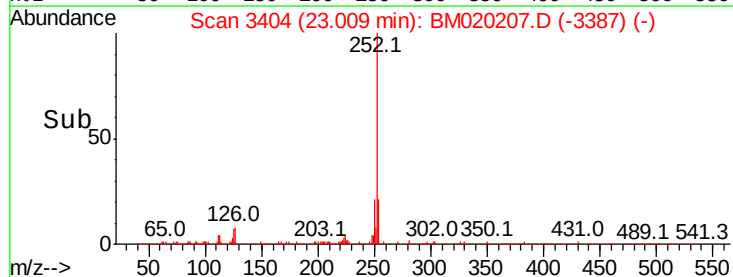
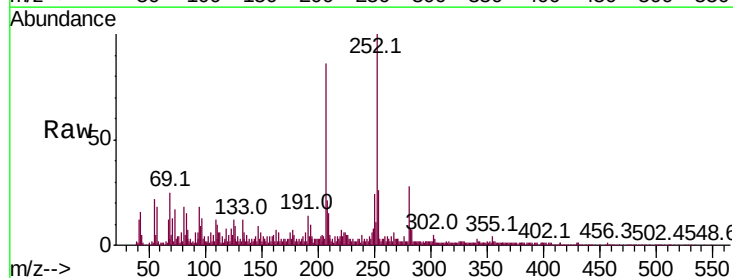
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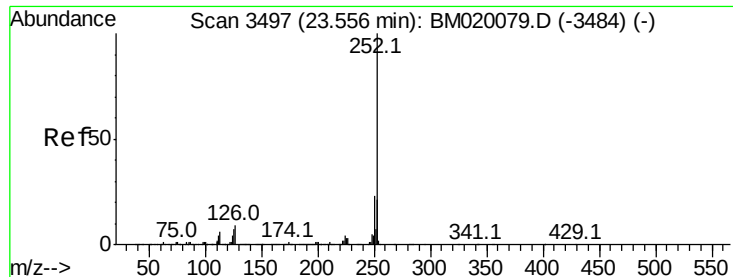
Sohil
5/9/2019 6:45:40 PM



#89
Benzo(k)fluoranthene
Concen: 3.038 ng m
RT: 23.01 min Scan# 3404
Delta R.T. 0.00 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.8	26.8
125	12.2	5.4	8.0





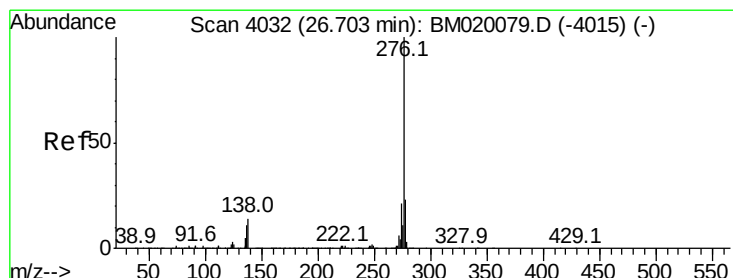
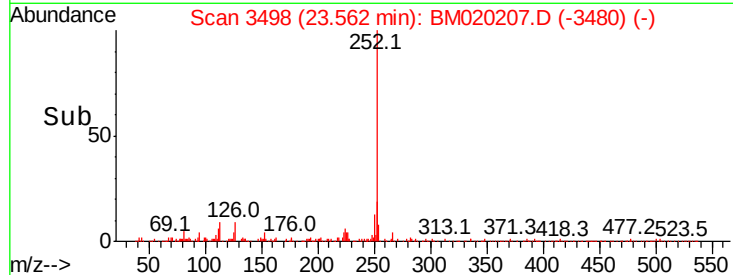
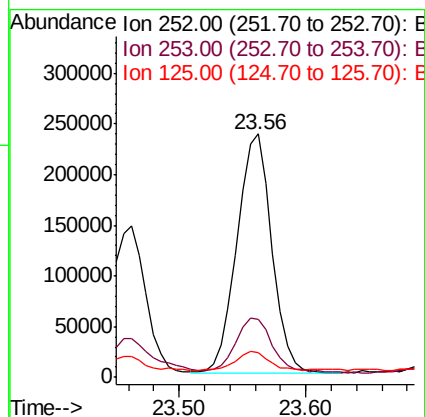
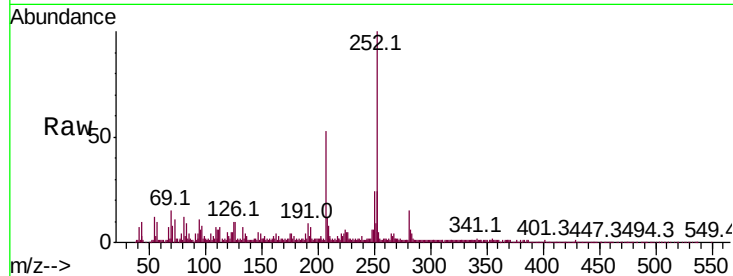
#90
Benzo(a)pyrene
Concen: 7.799 ng
RT: 23.56 min Scan# 3498
Delta R.T. 0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Instrument :
BNA_M
ClientSampleId :
OR-03-050719-A

Tot Ion:	252	Resp:	447441
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.0	25.6
125	10.4	5.5	8.3#

Manual Integrations
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Sohil
5/9/2019 6:45:40 PM



#92
Benzo(g,h,i)perylene
Concen: 5.017 ng
RT: 26.71 min Scan# 4034
Delta R.T. 0.01 min
Lab File: BM020207.D
Acq: 08 May 2019 22:36

Tgt Ion:	276	Resp:	284191
Ion Ratio	Lower	Upper	
276	100		
277	27.1	18.4	27.6
138	15.6	11.1	16.7

