

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082119\
 Data File : BM022221.D
 Acq On : 21 Aug 2019 10:12
 Operator : HP/JU
 Sample : K4264-21
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 REACTOR-3-C1-C4-(3)

Manual Integrations
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 8/22/2019 1:59:57 PM

Quant Time: Aug 21 14:22:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 20 02:18:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	34129	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	128842	20.00	ng	0.00
39) Acenaphthene-d10	14.22	164	85644	20.00	ng	0.00
64) Phenanthrene-d10	16.99	188	183718	20.00	ng	0.00
76) Chrysene-d12	21.19	240	170300	20.00	ng	0.00
87) Perylene-d12	23.39	264	173499	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	318389	166.24	ng	0.00
7) Phenol-d6	6.76	99	428657	168.07	ng	0.00
23) Nitrobenzene-d5	8.74	82	306679	115.77	ng	0.00
42) 2,4,6-Tribromophenol	15.73	330	267649	193.08	ng	0.00
45) 2-Fluorobiphenyl	12.83	172	686565	100.13	ng	0.00
79) Terphenyl-d14	19.63	244	1224737	104.79	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.79	94	5900	2.185	ng	# 45
50) Dimethylphthalate	13.70	163	72646	10.089	ng	99
52) Acenaphthene	14.29	154	12312	2.483	ng	95
58) Fluorene	15.29	166	14869	2.141	ng	97
71) Phenanthrene	17.03	178	242223	22.735	ng	98
72) Anthracene	17.12	178	62996	5.957	ng	99
75) Fluoranthene	19.06	202	350818	27.306	ng	98
78) Pyrene	19.42	202	272624	22.743	ng	99
81) Benzo(a)anthracene	21.18	228	141787	11.839	ng	96
83) Chrysene	21.23	228	108836	9.414	ng	96
86) Indeno(1,2,3-cd)pyrene	25.59	276	46833	3.616	ng	# 96
88) Benzo(b)fluoranthene	22.74	252	114412	9.876	ng	96
89) Benzo(k)fluoranthene	22.77	252	46413m	4.099	ng	
90) Benzo(a)pyrene	23.30	252	81898	7.763	ng	97
92) Benzo(a,h,i)perylene	26.26	276	39400	4.020	ng	95

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

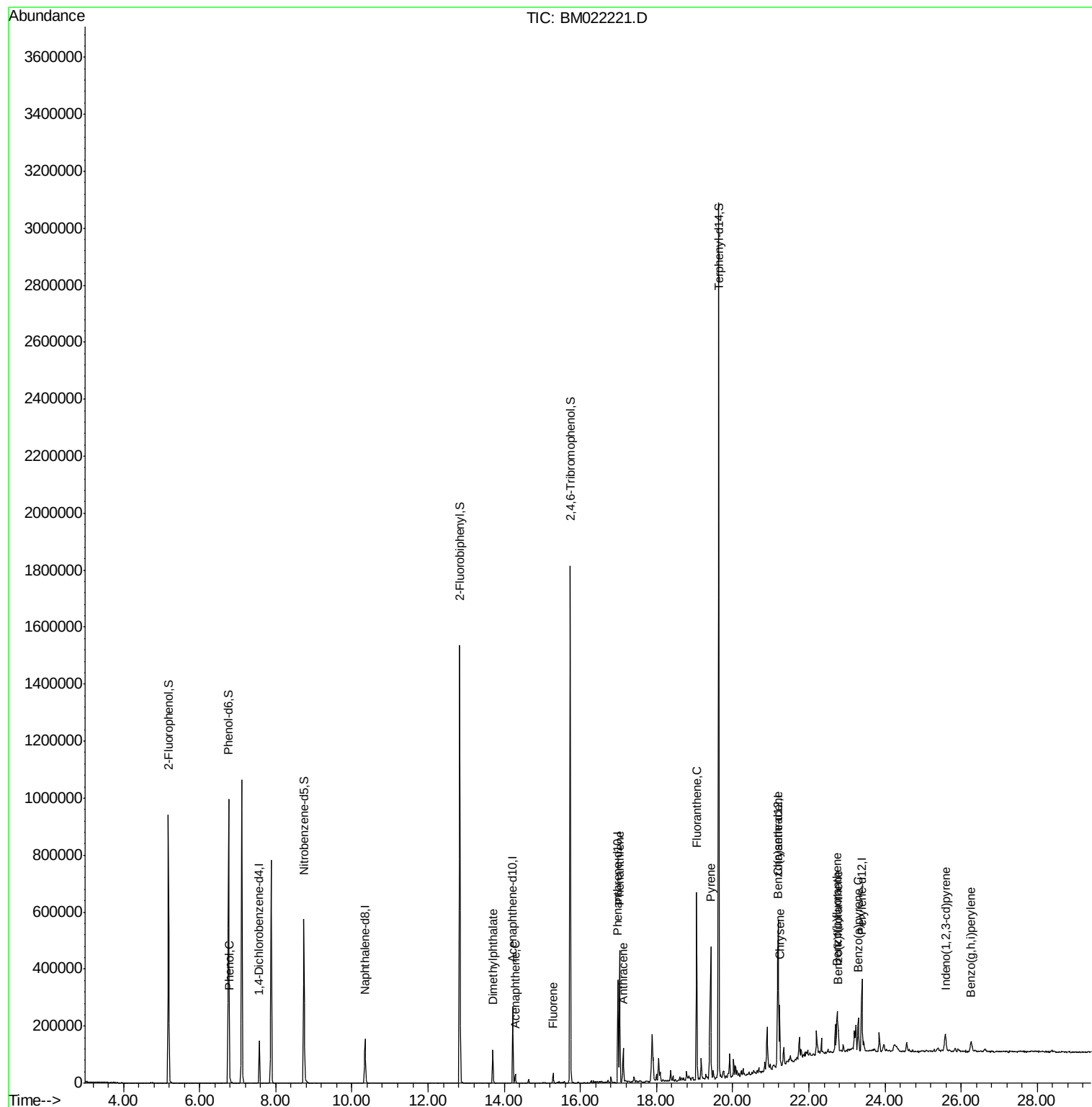
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082119\
Data File : BM022221.D
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ALS Vial : 3 Sample Multiplier: 1

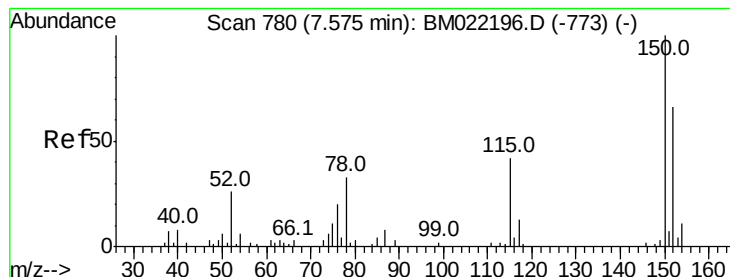
Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

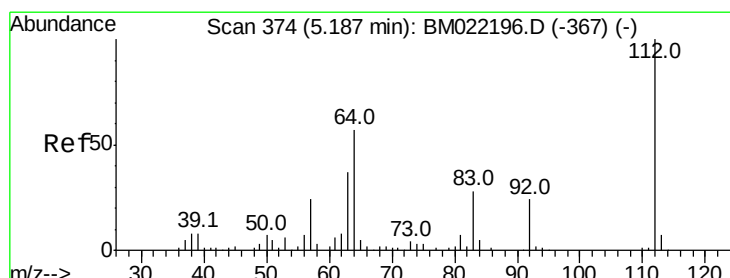
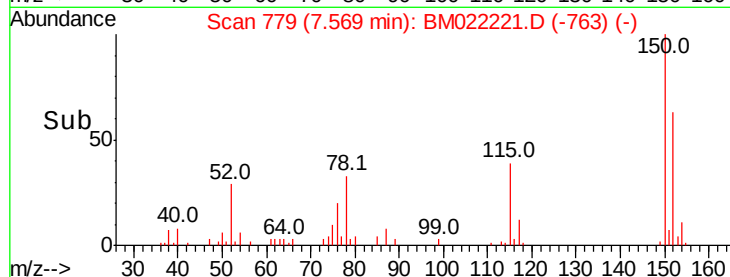
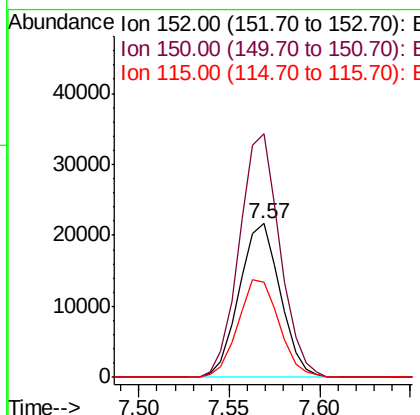
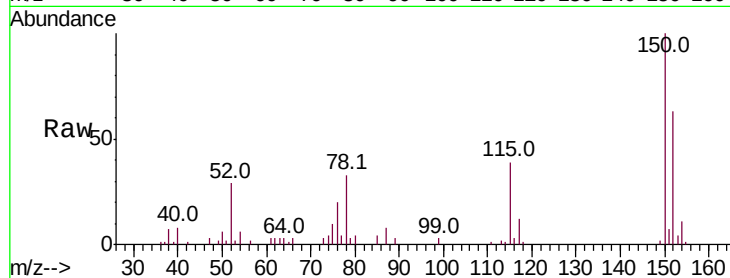
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.57 min Scan# 779
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	123.1	184.7
115	62.1	44.2	66.4

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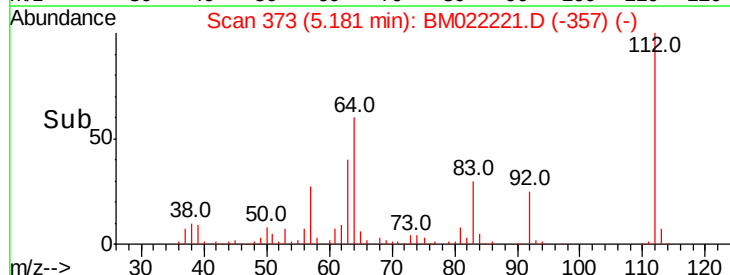
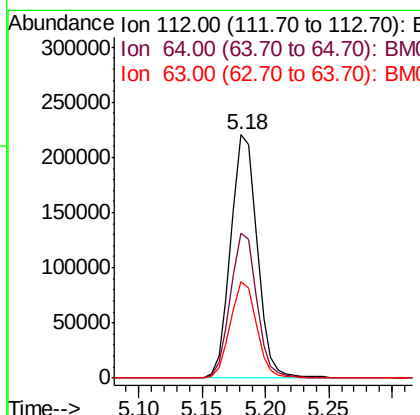
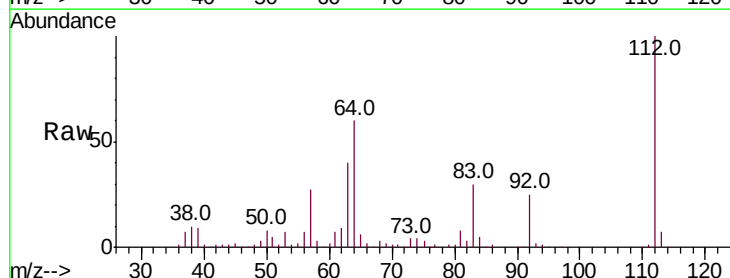
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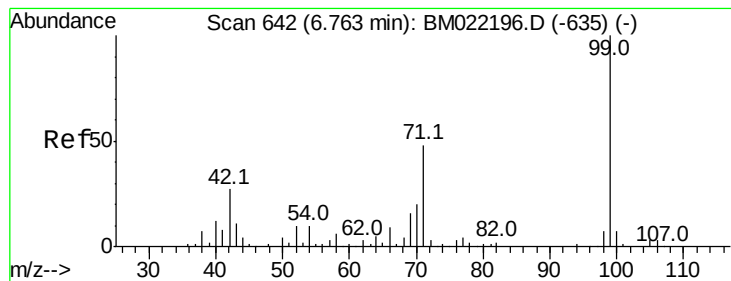


#5

2-Fluorophenol
Concen: 166.240 ng
RT: 5.18 min Scan# 373
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.7	45.2	67.8
63	39.8	23.5	35.3





#7

Phenol-d6

Concen: 168.070 ng

RT: 6.76 min Scan# 642

Delta R.T. -0.00 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

ClientSampleId :

REACTOR-3-C1-C4-(3)

Tot Ion: 99 Resp: 428657
Ion Ratio Lower Upper

99 100

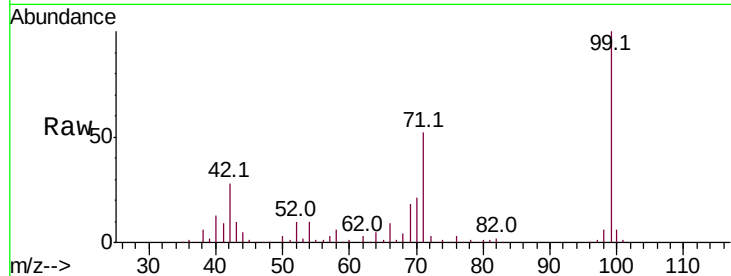
42 28.2 13.5 20.3#

71 51.9 29.3 43.9#

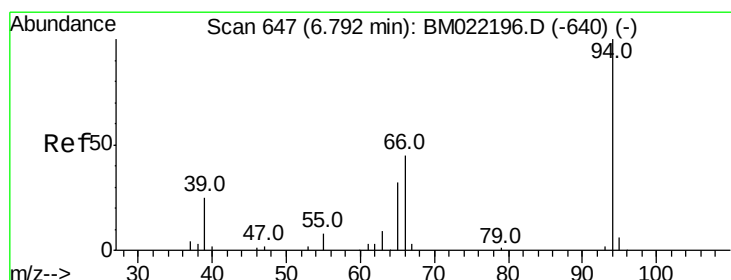
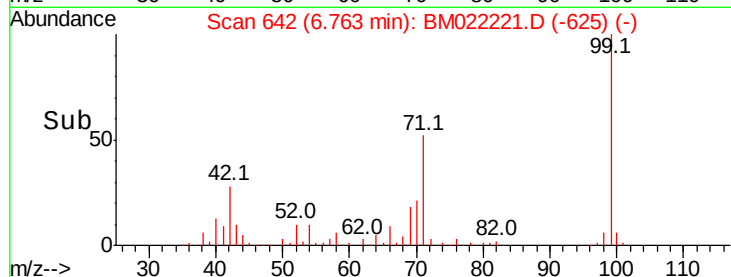
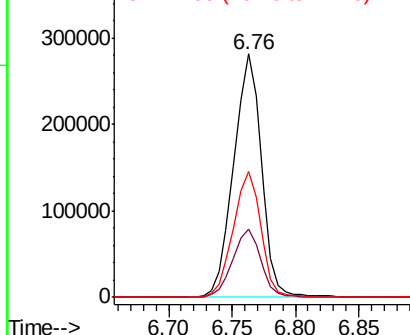
Manual Integrations
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Abundance Ion 99.00 (98.70 to 99.70): BM0
Ion 42.00 (41.70 to 42.70): BM0
Ion 71.00 (70.70 to 71.70): BM0



#10

Phenol

Concen: 2.185 ng

RT: 6.79 min Scan# 646

Delta R.T. -0.01 min

Lab File: BM022221.D

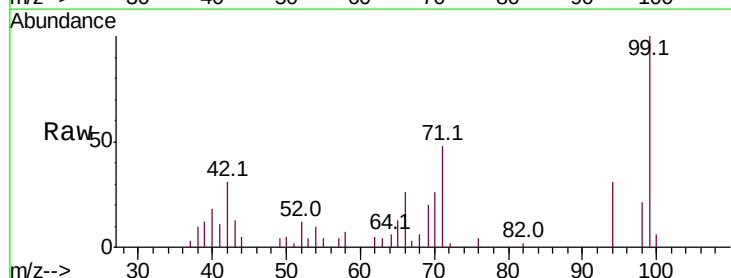
Acq: 21 Aug 2019 10:12

Tgt Ion: 94 Resp: 5900
Ion Ratio Lower Upper

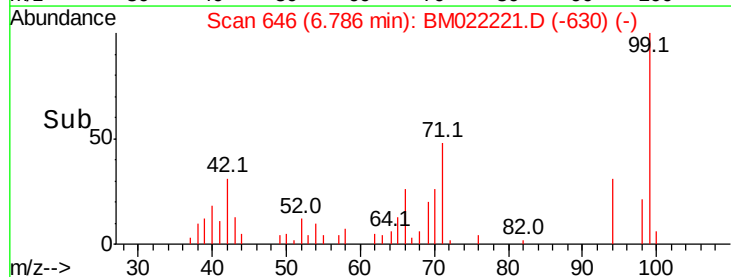
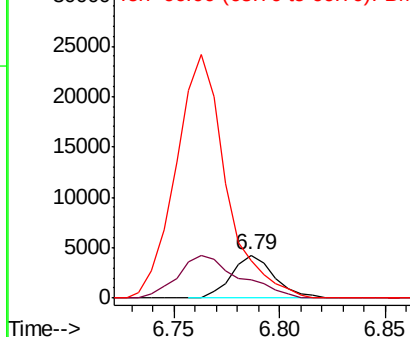
94 100

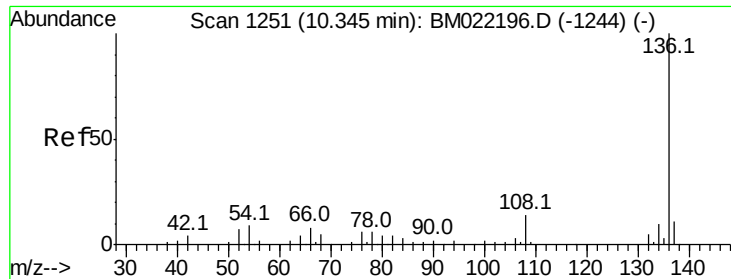
65 41.5 8.7 48.7

66 86.5 19.0 59.0#



Abundance Ion 94.00 (93.70 to 94.70): BM0
Ion 65.00 (64.70 to 65.70): BM0
Ion 66.00 (65.70 to 66.70): BM0





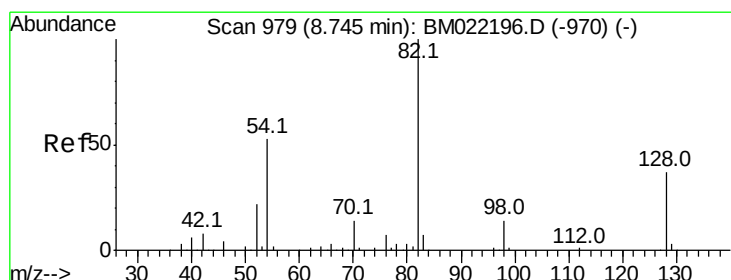
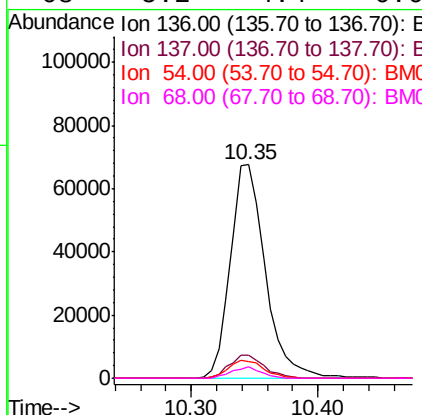
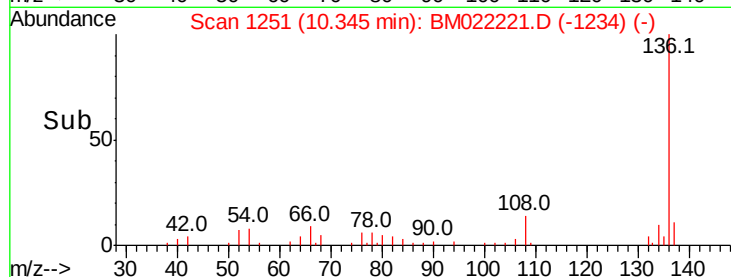
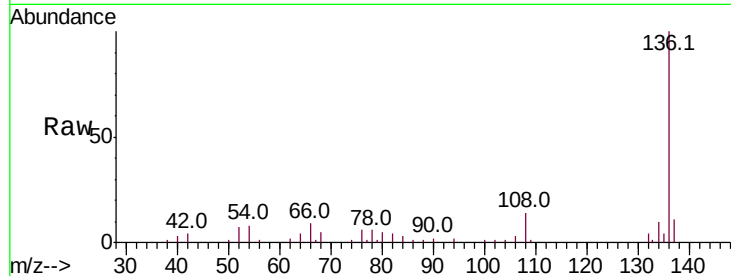
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.35 min Scan# 1251
Delta R.T. -0.00 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.6	8.6	13.0	
54	7.9	5.3	7.9	
68	5.2	4.4	6.6	

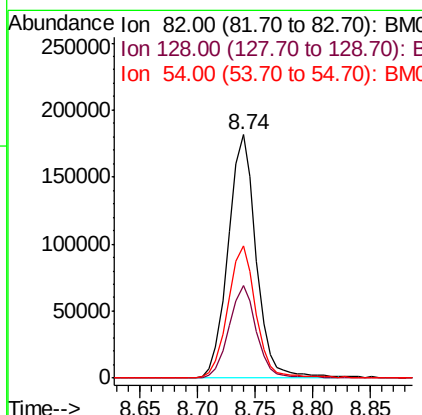
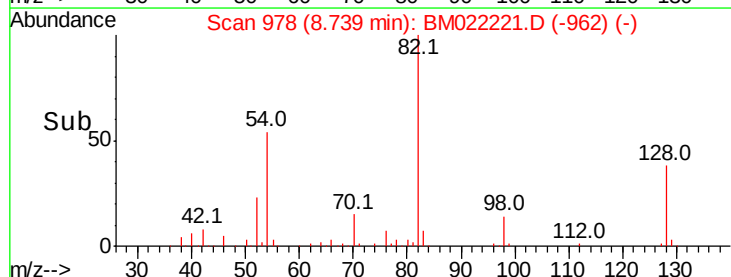
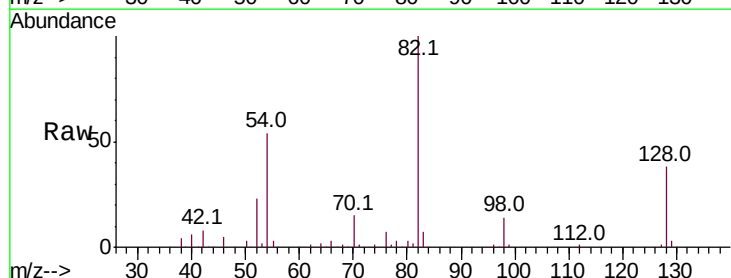
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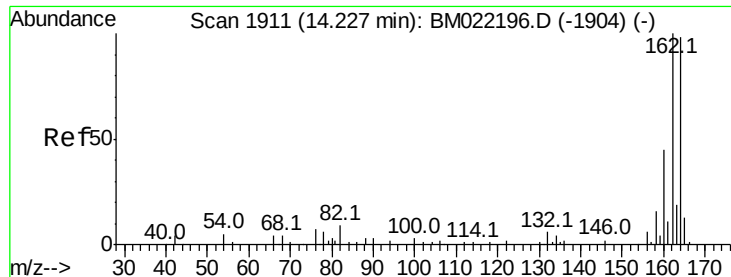
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#23
Nitrobenzene-d5
Concen: 115.769 ng
RT: 8.74 min Scan# 978
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	38.0	35.9	53.9	
54	54.2	36.6	55.0	





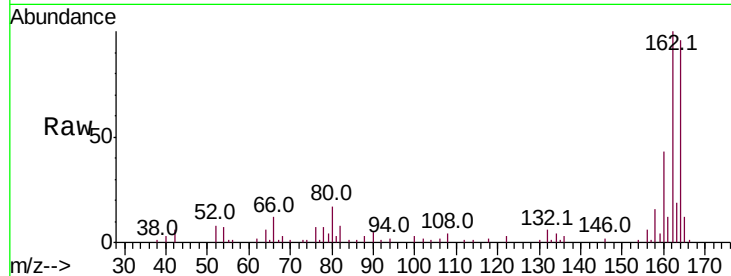
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.22 min Scan# 1910
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.1	123.1
160	45.2	37.1	55.7

Manual Integrations
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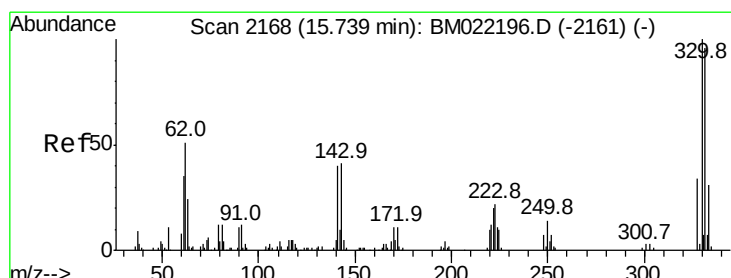
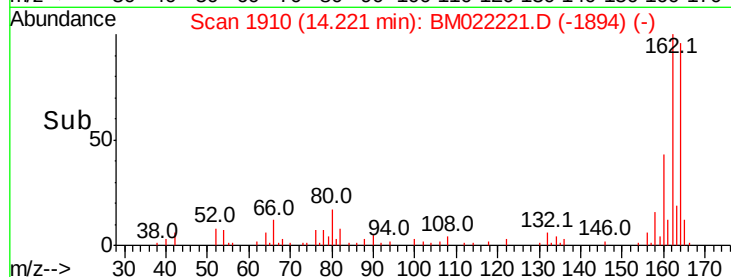
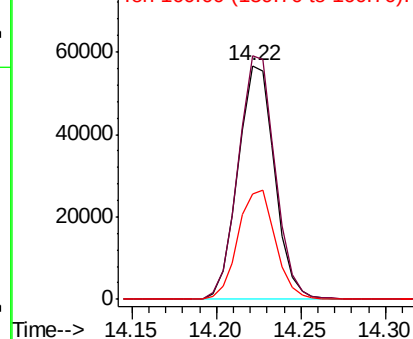


Abundance

Ion 164.00 (163.70 to 164.70): E

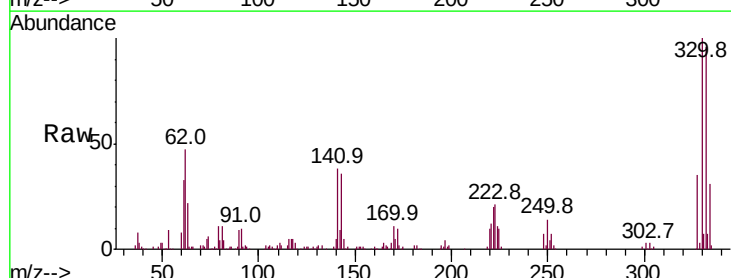
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 193.078 ng
RT: 15.73 min Scan# 2167
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.1	115.7
141	40.6	21.8	32.8#

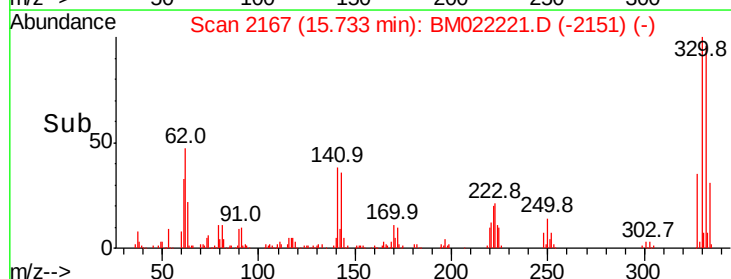
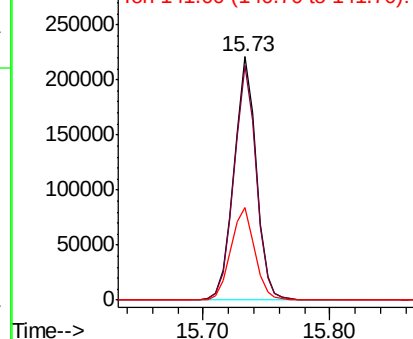


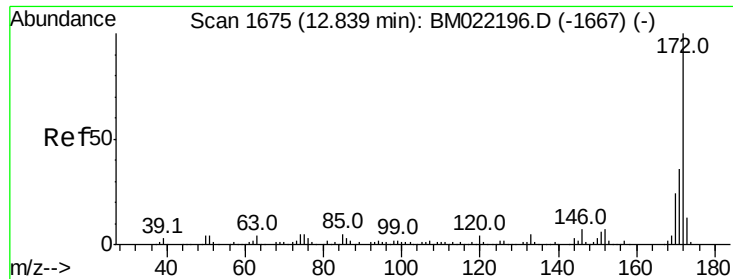
Abundance

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





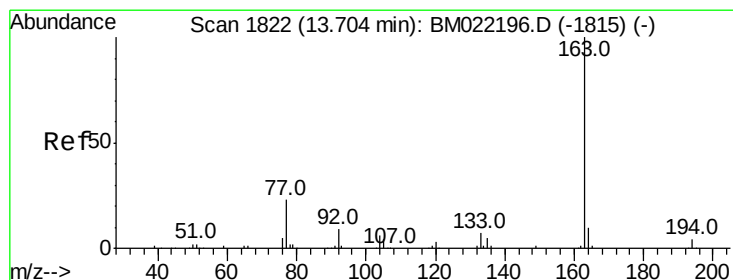
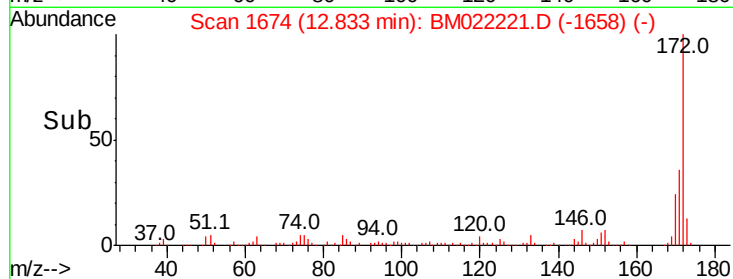
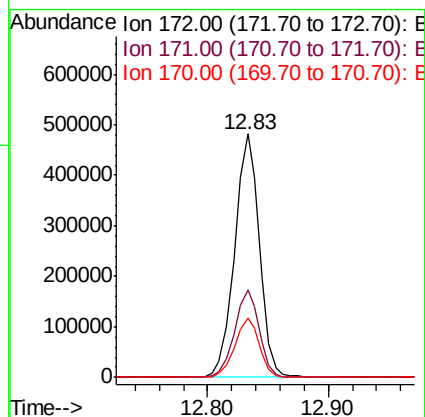
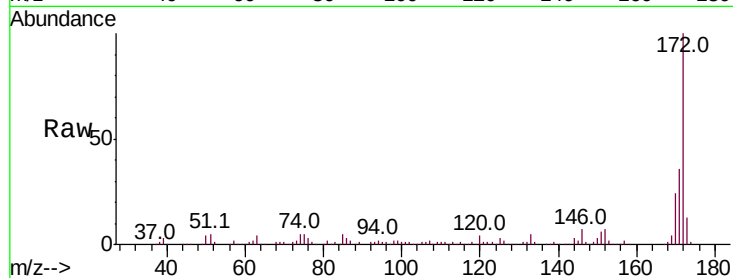
#45
2-Fluorobiphenyl
Concen: 100.126 ng
RT: 12.83 min Scan# 1674
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	686565		
171	36.0		28.6	43.0
170	24.2		18.7	28.1

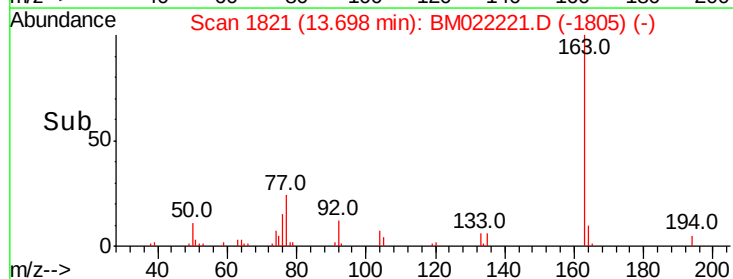
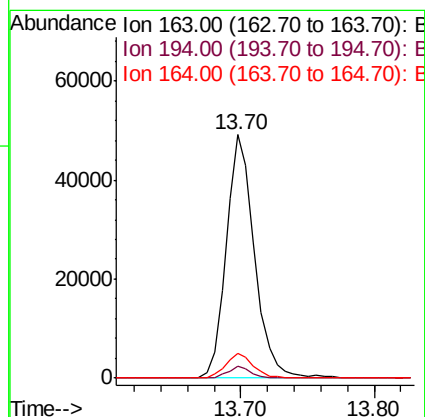
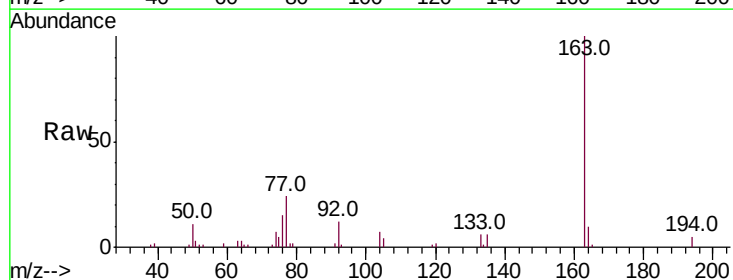
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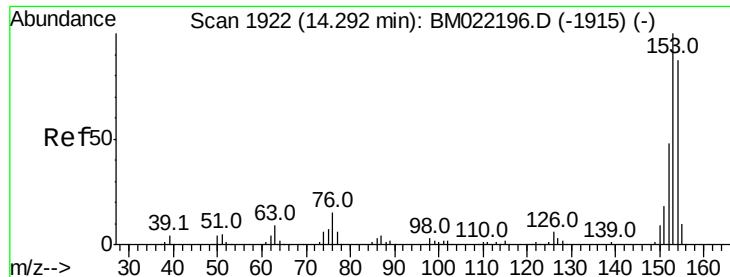
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#50
Dimethylphthalate
Concen: 10.089 ng
RT: 13.70 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	72646		
194	4.7		3.4	5.2
164	9.9		8.2	12.2





#52

Acenaphthene

Concen: 2.483 ng

RT: 14.29 min Scan# 1922

Delta R.T. -0.00 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

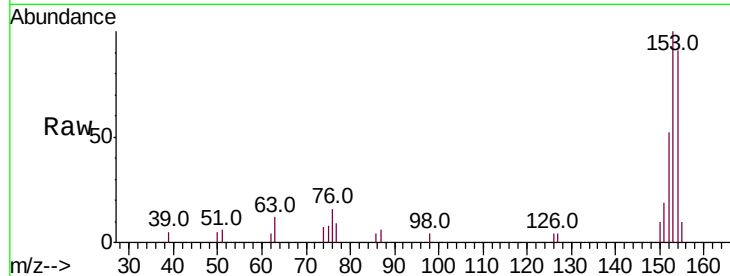
ClientSampleId :

REACTOR-3-C1-C4-(3)

Tot Ion:	154	Resp:	12312
Ion Ratio	Lower	Upper	
154	100		
153	110.1	91.5	137.3
152	57.0	42.3	63.5

Manual Integrations
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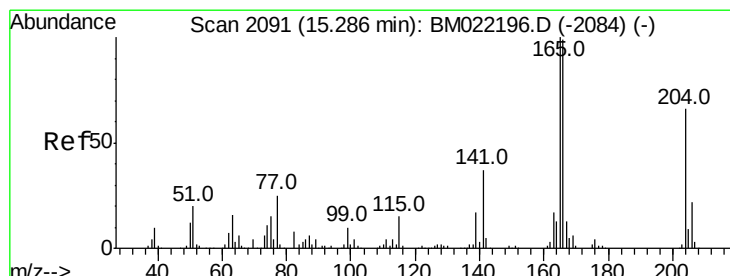
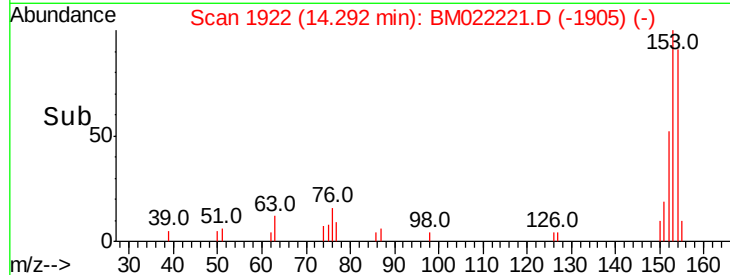
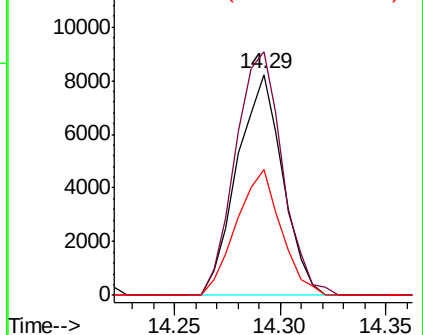


Abundance

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



#58

Fluorene

Concen: 2.141 ng

RT: 15.29 min Scan# 2091

Delta R.T. -0.00 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

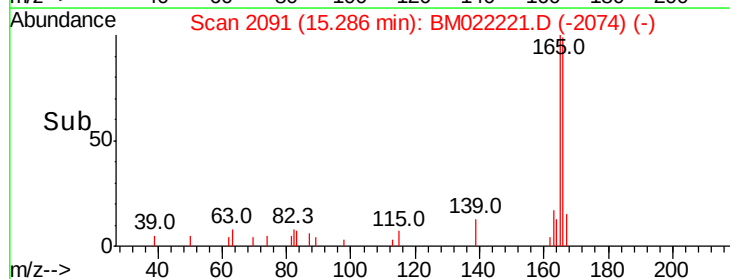
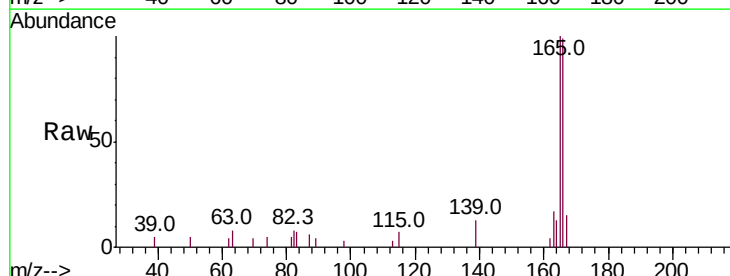
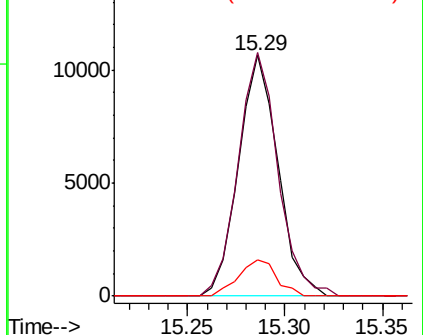
Tgt Ion:	166	Resp:	14869
Ion Ratio	Lower	Upper	
166	100		
165	101.0	78.6	117.8
167	14.9	10.9	16.3

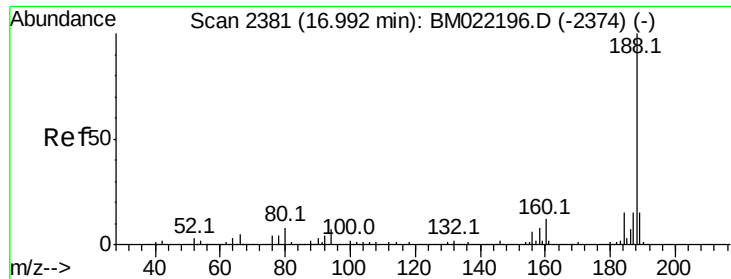
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.99 min Scan# 2380

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

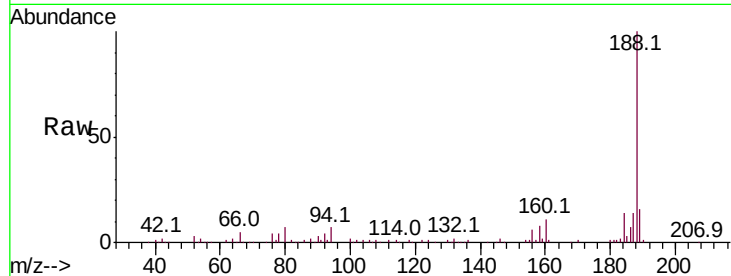
ClientSampleId :

REACTOR-3-C1-C4-(3)

Tot Ion:	188	Resp:	183718
Ion Ratio	Lower	Upper	
188	100		
94	6.6	5.8	8.8
80	7.5	6.9	10.3

Manual Integrations
APPROVED

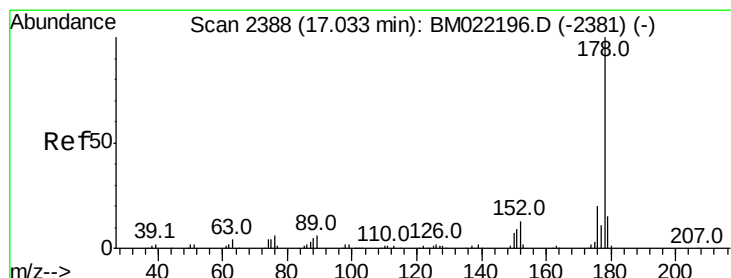
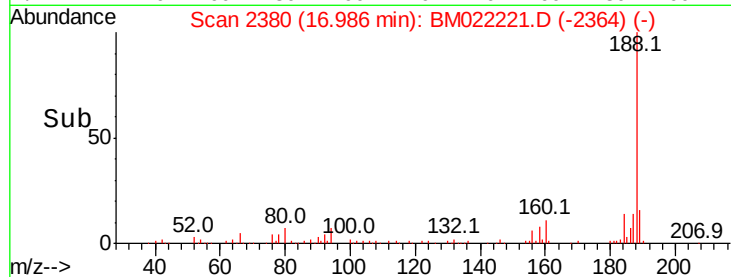
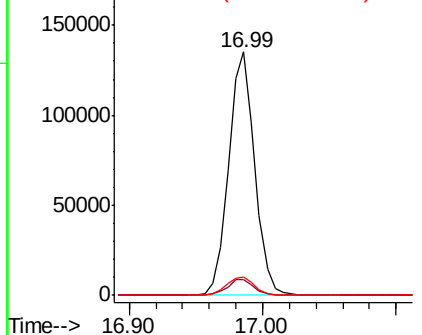
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 22.735 ng

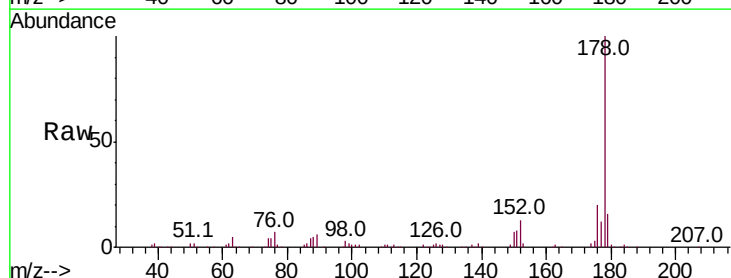
RT: 17.03 min Scan# 2387

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

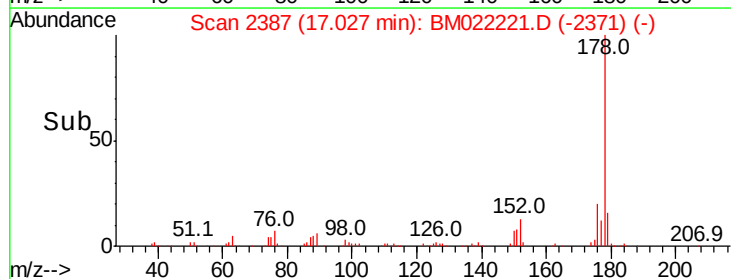
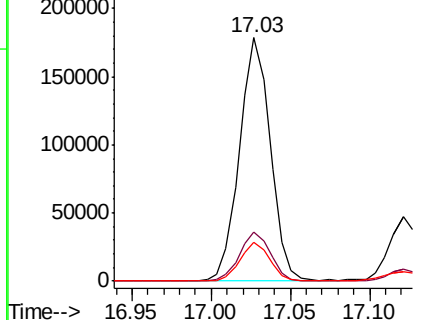
Tgt Ion:	178	Resp:	242223
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.2	22.8
179	15.9	12.2	18.4

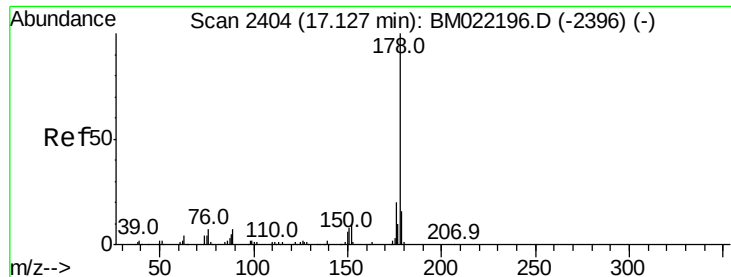


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 5.957 ng

RT: 17.12 min Scan# 2403

Delta R.T. -0.01 min

Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Instrument :

BNA_M

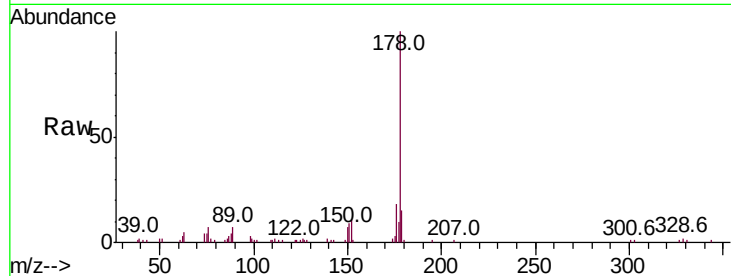
ClientSampleId :

REACTOR-3-C1-C4-(3)

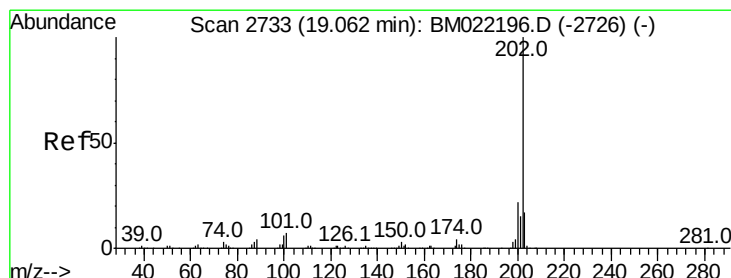
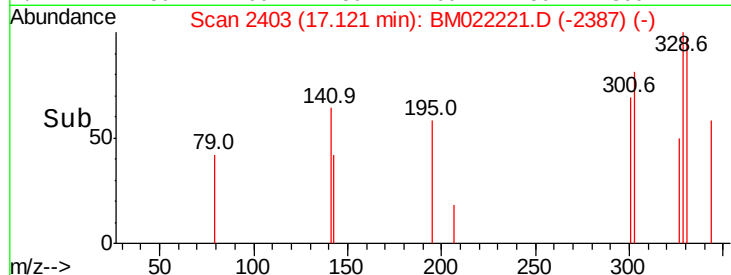
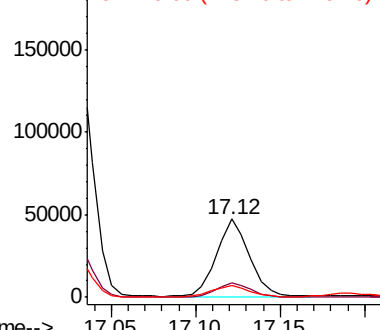
Tot Ion:	178	Resp:	62996
Ion Ratio	Lower	Upper	
178	100		
176	18.1	14.7	22.1
179	15.4	12.2	18.2

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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



#75

Fluoranthene

Concen: 27.306 ng

RT: 19.06 min Scan# 2732

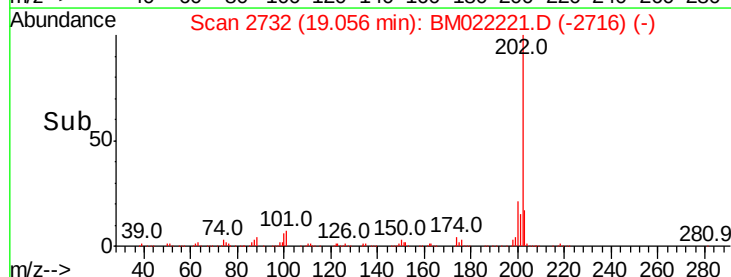
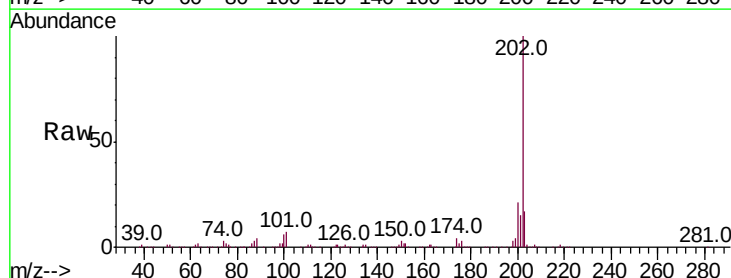
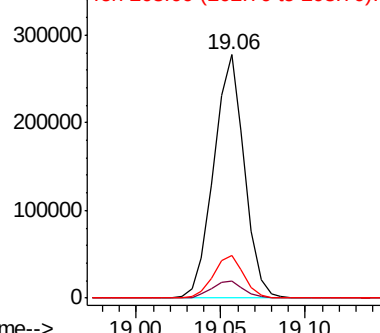
Delta R.T. -0.01 min

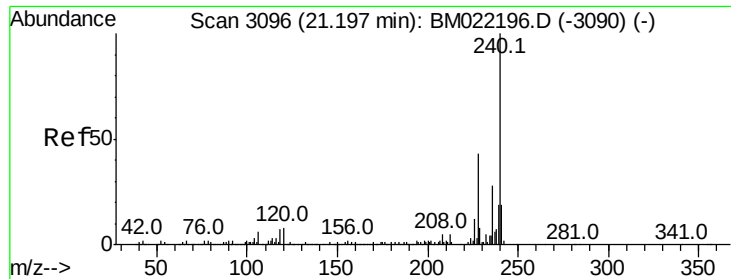
Lab File: BM022221.D

Acq: 21 Aug 2019 10:12

Tgt Ion:	202	Resp:	350818
Ion Ratio	Lower	Upper	
202	100		
101	6.8	0.0	28.2
203	17.4	0.0	37.6

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





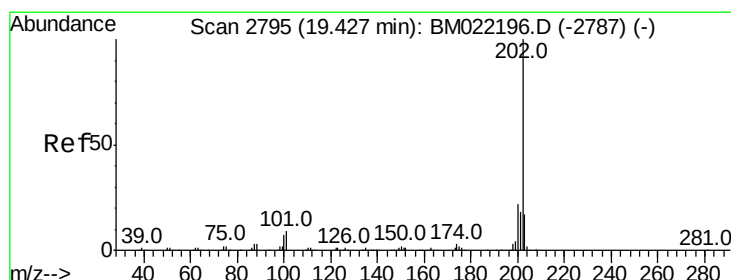
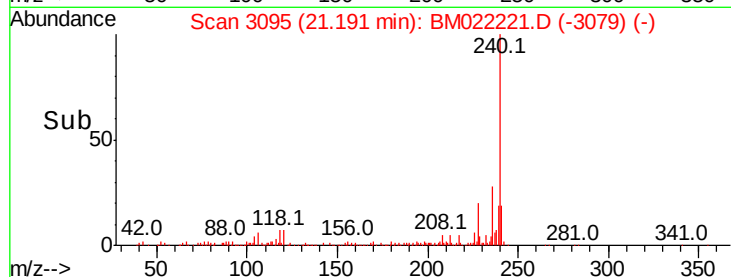
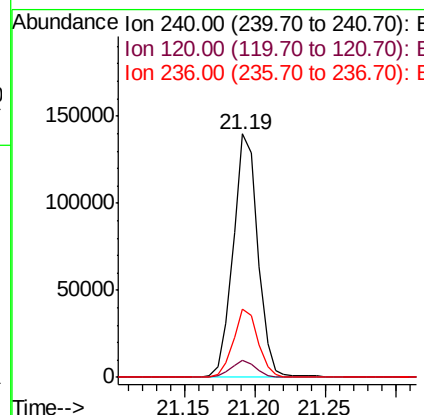
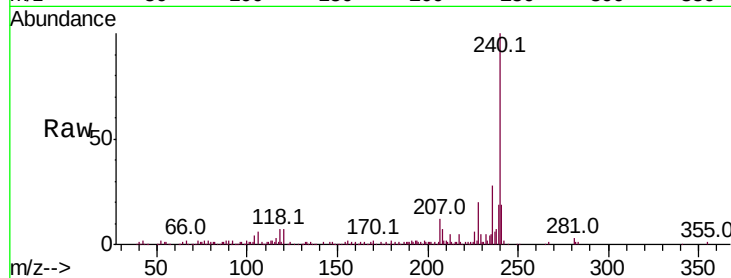
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.19 min Scan# 3095
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Resp	Lower	Upper
240	100	170300		
120	7.0	6.9	10.3	
236	27.9	20.4	30.6	

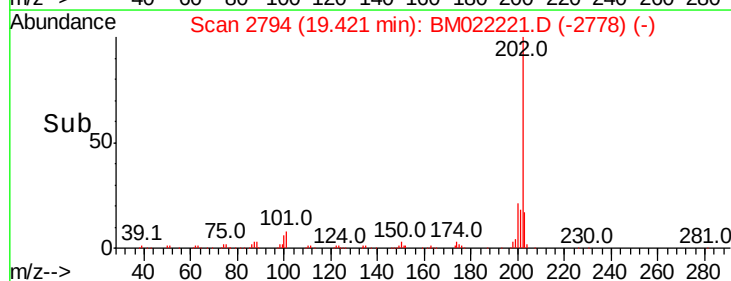
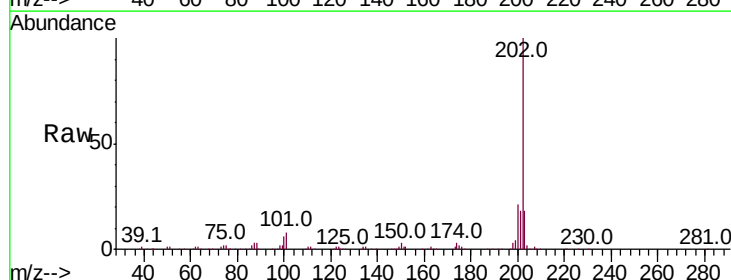
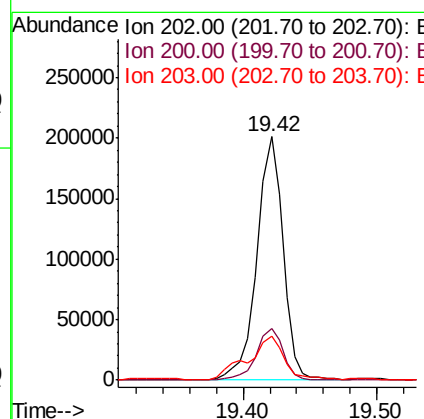
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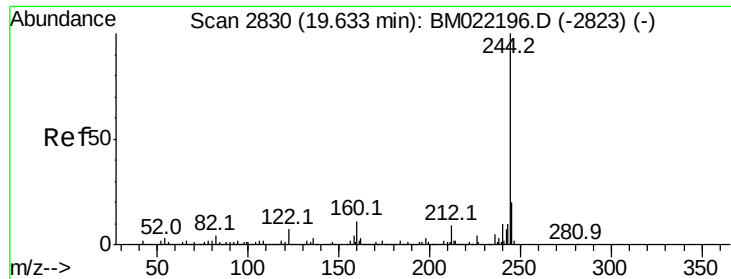
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#78
Pyrene
Concen: 22.743 ng
RT: 19.42 min Scan# 2794
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	272624		
200	21.4	17.0	25.4	
203	18.0	14.0	21.0	





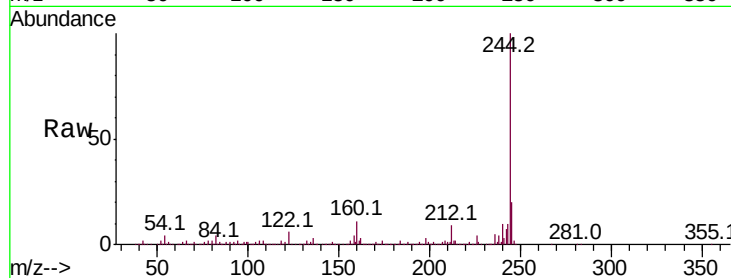
#79
 Terphenyl-d14
 Concen: 104.788 ng
 RT: 19.63 min Scan# 2829
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Instrument :
 BNA_M
 ClientSampleId :
 REACTOR-3-C1-C4-(3)

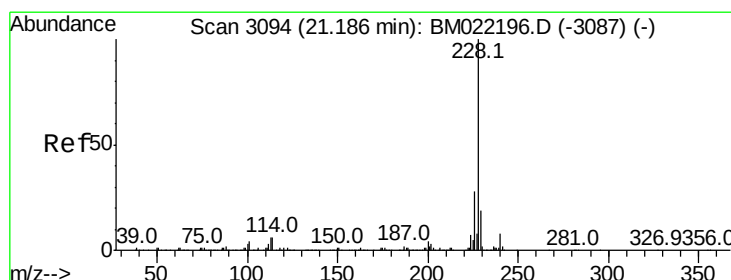
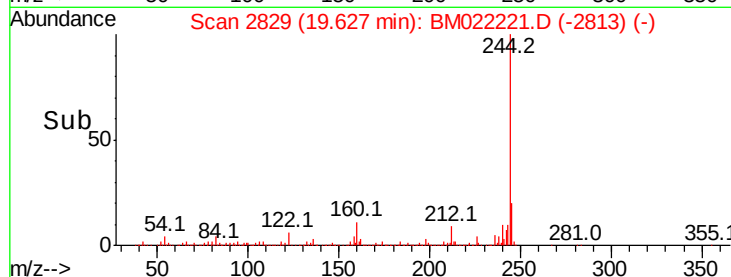
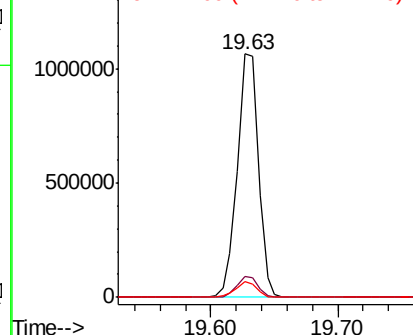
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.5	5.3	7.9#
122	6.4	6.6	9.8#

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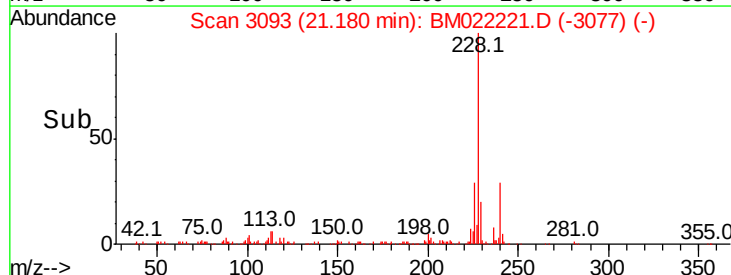
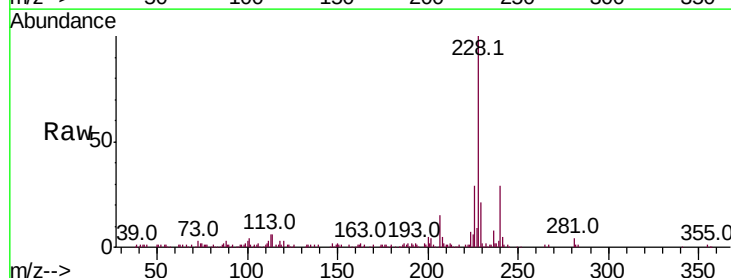
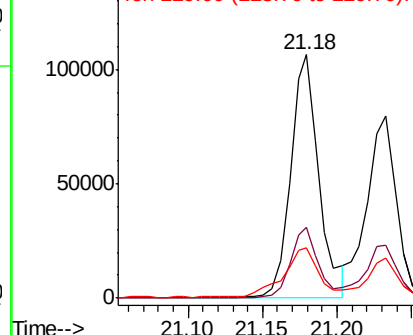
Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

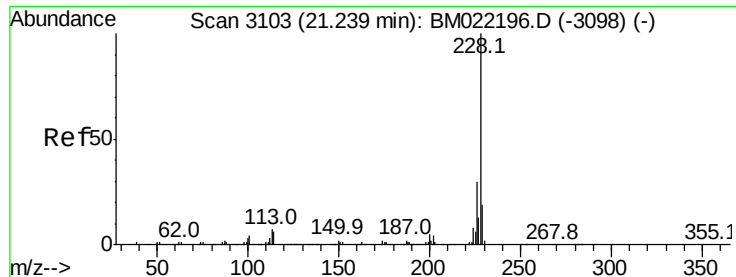


#81
 Benzo(a)anthracene
 Concen: 11.839 ng
 RT: 21.18 min Scan# 3093
 Delta R.T. -0.01 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	21.6	32.4
229	20.7	15.5	23.3

Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E





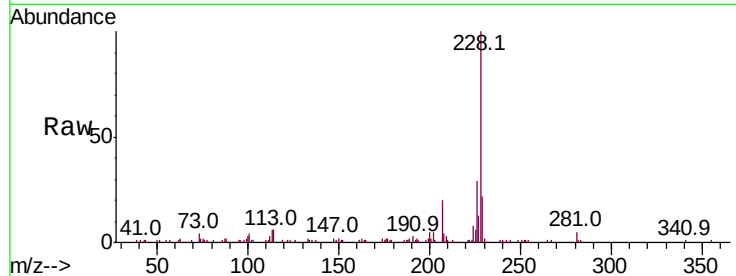
#83
Chrysene
Concen: 9.414 ng
RT: 21.23 min Scan# 3102
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

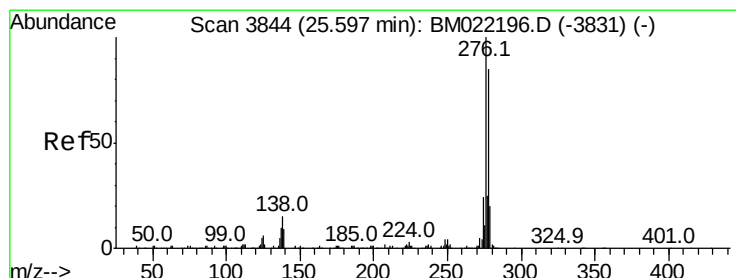
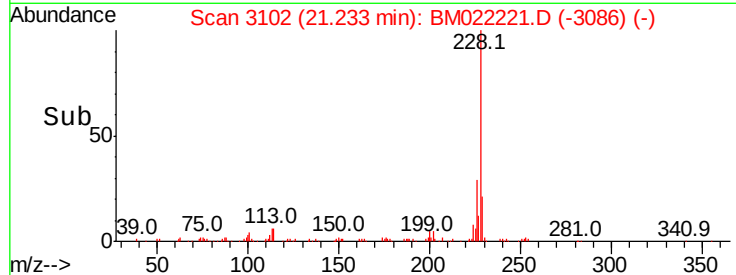
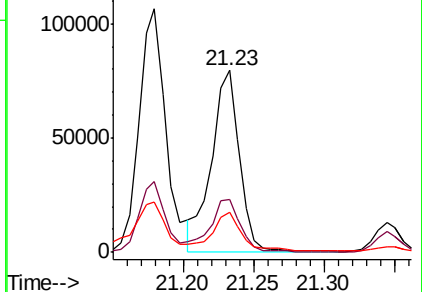
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	24.1	36.1
229	22.3	15.6	23.4

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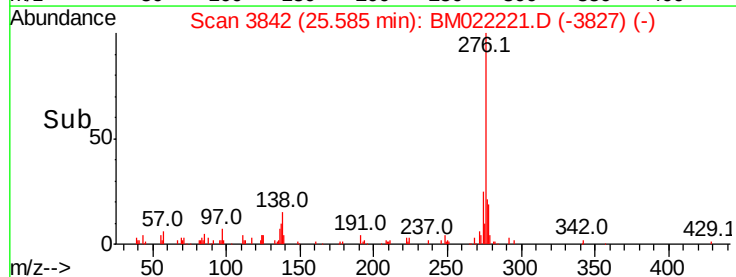
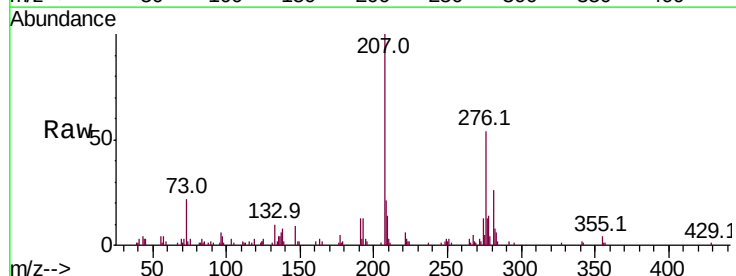
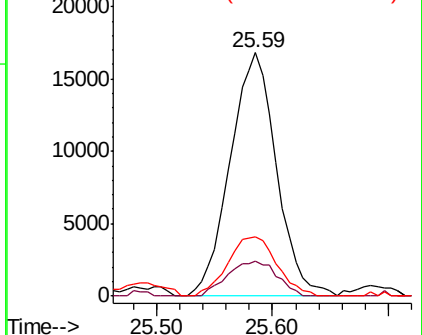
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

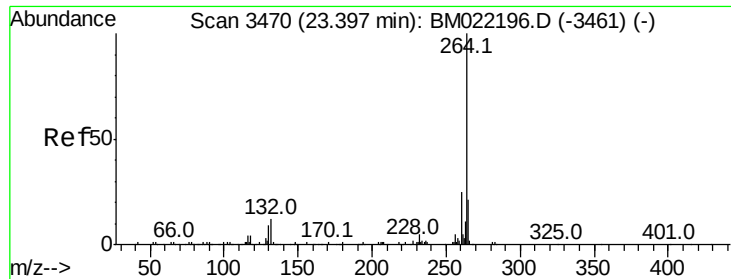


#86
Indeno(1,2,3-cd)pyrene
Concen: 3.616 ng
RT: 25.59 min Scan# 3842
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.3	15.4	23.0#
277	25.6	20.4	30.6

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





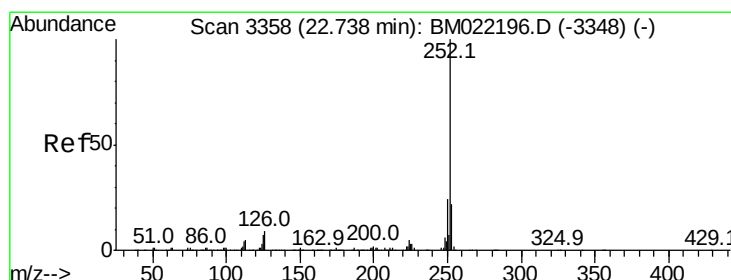
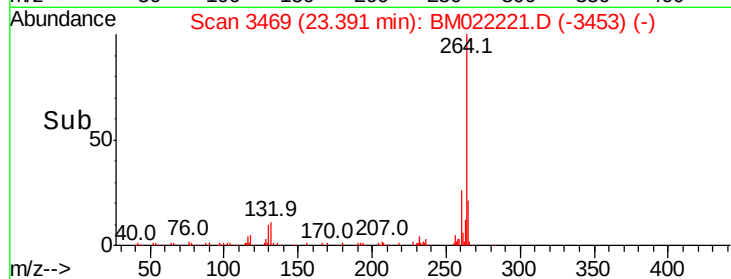
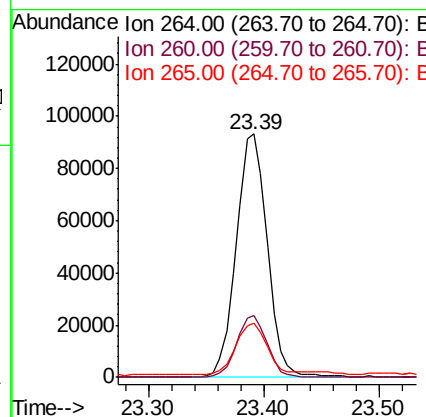
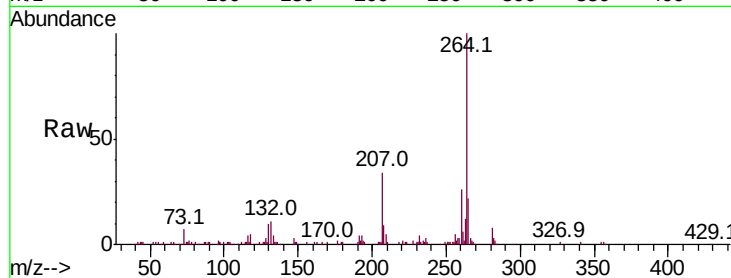
#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.39 min Scan# 3469
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.0	28.4
265	22.3	17.7	26.5

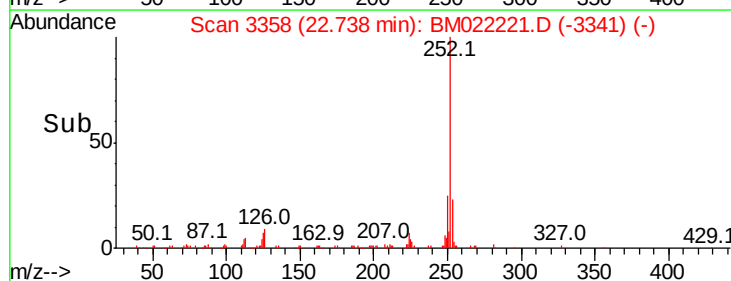
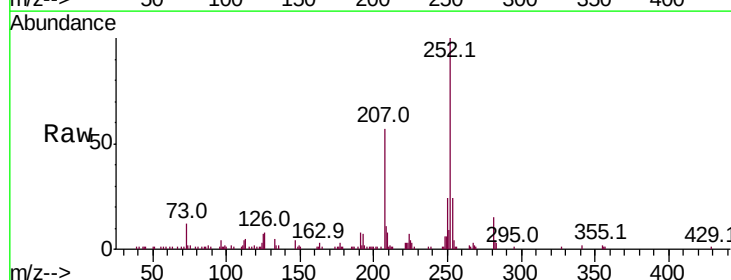
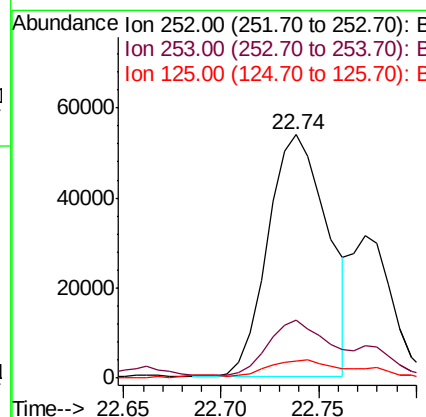
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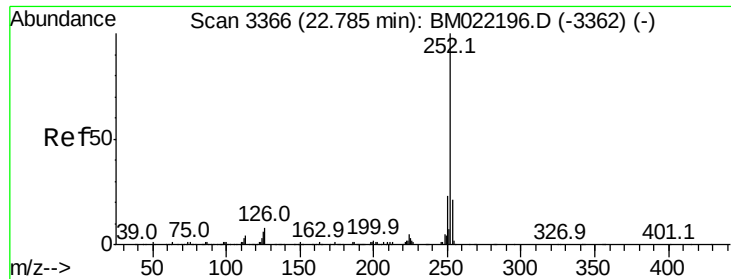
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#88
Benzo(b)fluoranthene
Concen: 9.876 ng
RT: 22.74 min Scan# 3358
Delta R.T. -0.00 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.4	26.0
125	6.9	5.9	8.9





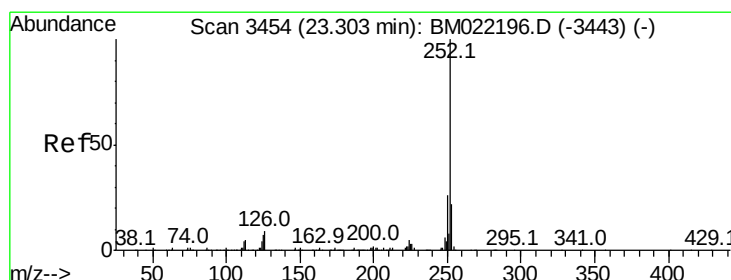
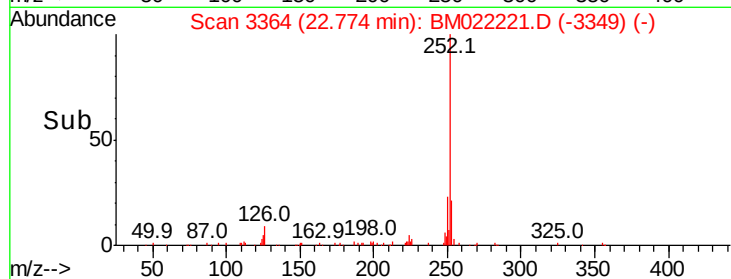
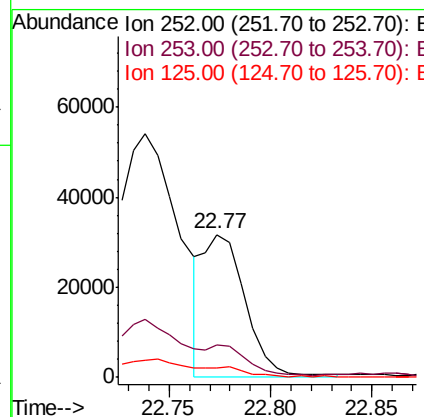
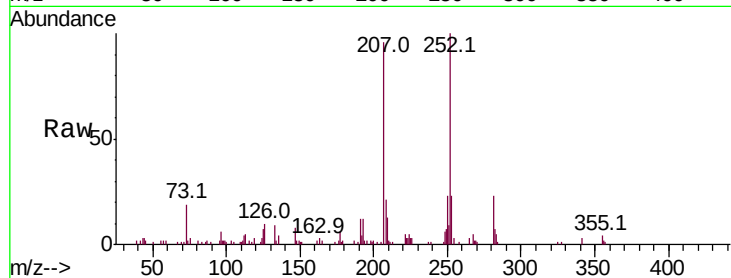
#89
Benzo(k)fluoranthene
Concen: 4.099 ng m
RT: 22.77 min Scan# 3364
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Instrument :
BNA_M
ClientSampleId :
REACTOR-3-C1-C4-(3)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	6.7	5.9	8.9

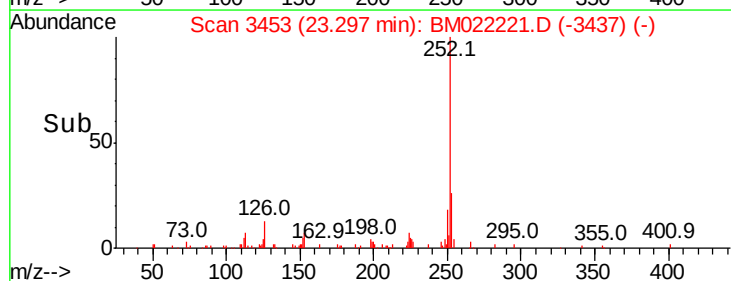
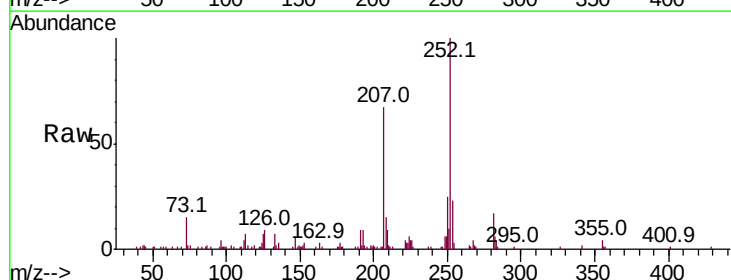
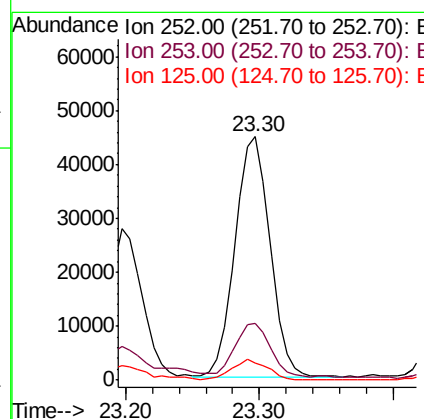
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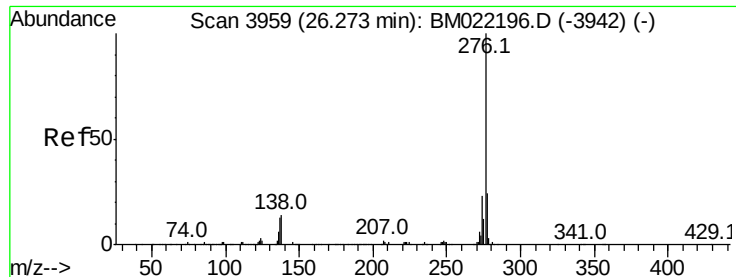
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#90
Benzo(a)pyrene
Concen: 7.763 ng
RT: 23.30 min Scan# 3453
Delta R.T. -0.01 min
Lab File: BM022221.D
Acq: 21 Aug 2019 10:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	6.8	6.6	10.0





#92
 Benzo(a,h,i)perylene
 Concen: 4.020 ng
 RT: 26.26 min Scan# 3956
 Delta R.T. -0.02 min
 Lab File: BM022221.D
 Acq: 21 Aug 2019 10:12

Instrument :
 BNA_M
 ClientSampleId :
 REACTOR-3-C1-C4-(3)

Tot Ion:	276	Resp:	39400
Ion Ratio	Lower	Upper	
276	100		
277	26.6	18.8	28.2
138	15.3	13.1	19.7

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