

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102617\
 Data File : BF099873.D
 Acq On : 26 Oct 2017 21:11
 Operator : SJ/JU
 Sample : I6112-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1-MARION26KV-(2-3)

Manual Integrations
 APPROVED

Sohil
 10/27/2017 5:34:16 PM

Quant Time: Oct 27 01:54:10 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 16:31:52 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	61709	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	250786	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	115700	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	209776	20.00	ng	0.00
75) Chrysene-d12	13.99	240	179216	20.00	ng	0.00
86) Perylene-d12	15.49	264	174139	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	363263	92.42	ng	0.00
7) Phenol-d6	6.44	99	443589	95.18	ng	0.00
23) Nitrobenzene-d5	7.36	82	260274	66.82	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	91182	86.48	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	544738	72.64	ng	0.00
78) Terphenyl-d14	12.92	244	492775	60.09	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.45	94	24548	4.797	ng	88
31) Naphthalene	8.10	128	30599	2.528	ng	100
37) 2-Methylnaphthalene	8.79	142	17855	2.201	ng	93
48) Acenaphthylene	9.70	152	25441	2.173	ng	98
49) Dimethylphthalate	9.56	163	253800	27.700	ng	99
51) Acenaphthene	9.87	154	22705	3.174	ng	96
54) Dibenzofuran	10.05	168	20234	2.004	ng	# 96
57) Fluorene	10.39	166	30844	3.689	ng	99
70) Phenanthrene	11.36	178	478825	40.446	ng	98
71) Anthracene	11.41	178	112519	9.363	ng	98
72) Carbazole	11.57	167	49218	4.355	ng	96
74) Fluoranthene	12.56	202	704182	57.236	ng	98
77) Pvrene	12.79	202	697235	51.164	ng	99
80) Benzo(a)anthracene	13.98	228	412878	36.341	ng	99
82) Chrysene	14.02	228	371214	34.755	ng	97
85) Indeno(1,2,3-cd)pyrene	16.99	276	201544	20.555	ng	96
87) Benzo(b)fluoranthene	15.05	252	496305m	45.135	ng	
88) Benzo(k)fluoranthene	15.07	252	150136m	14.479	ng	
89) Benzo(a)pvrene	15.43	252	362502	36.700	ng	96
90) Dibenzo(a,h)anthracene	16.99	278	53224m	6.064	ng	
91) Benzo(g,h,i)perylene	17.44	276	195624	22.782	ng	96

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

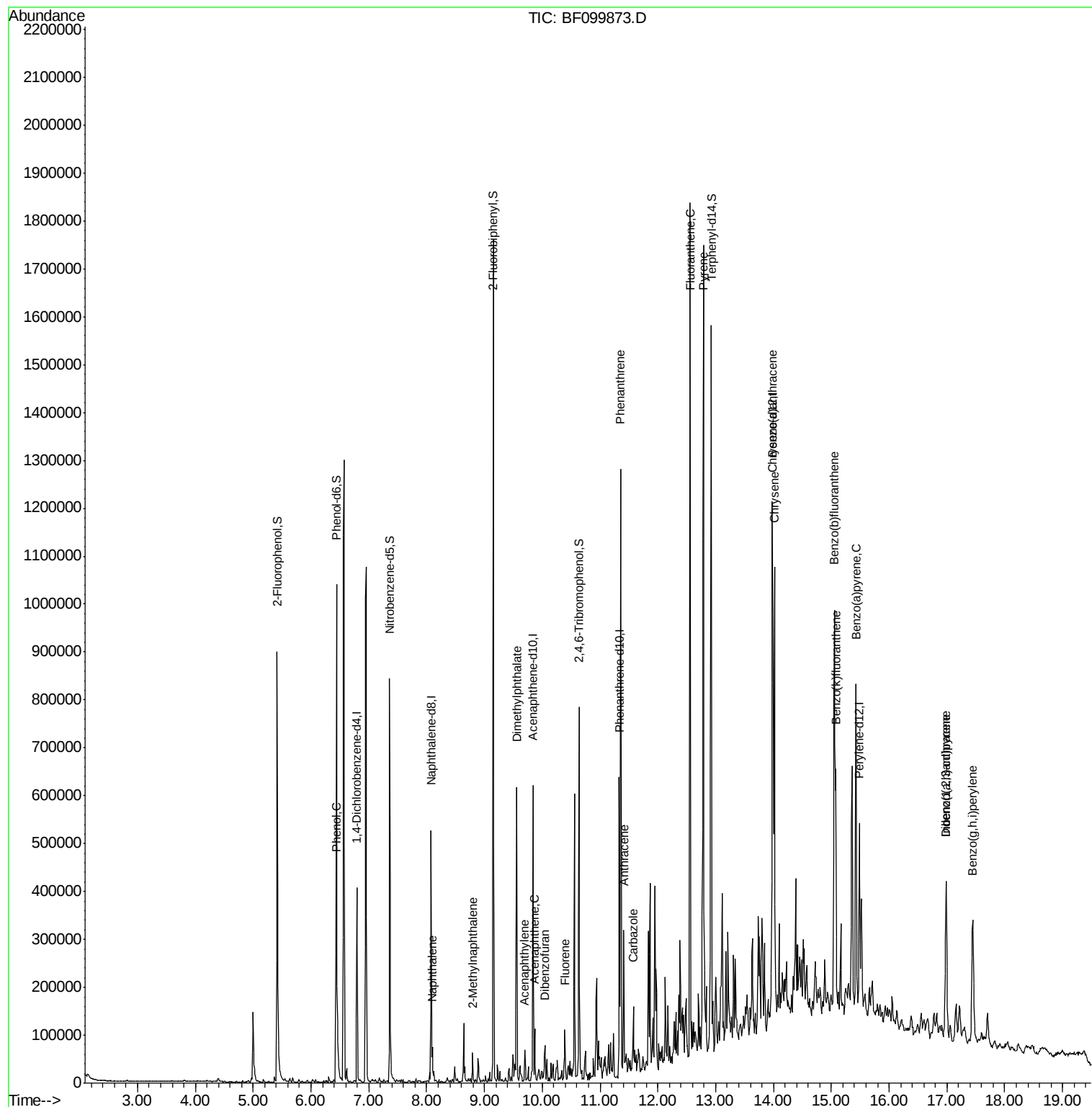
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102617\
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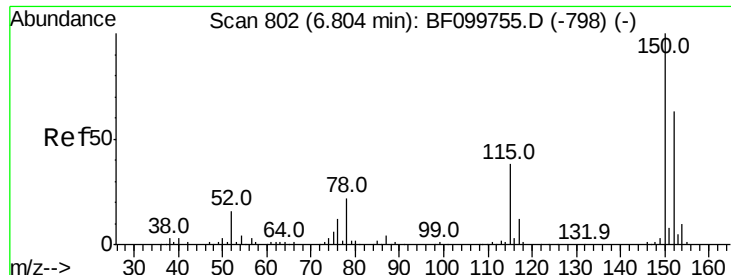
Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Manual Integrations
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Quant Time: Oct 27 01:54:10 2017
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#1

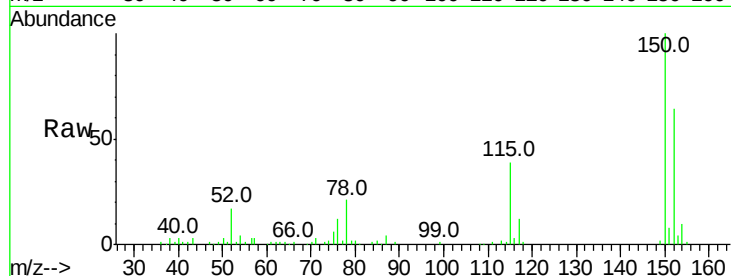
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	124.6	186.8
115	61.2	50.1	75.1

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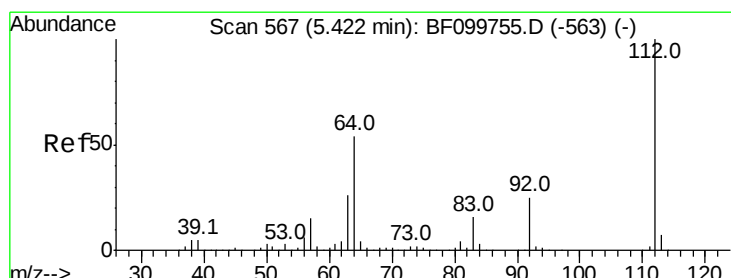
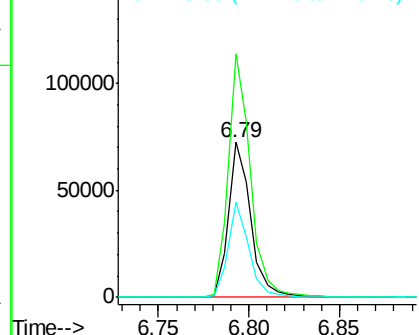
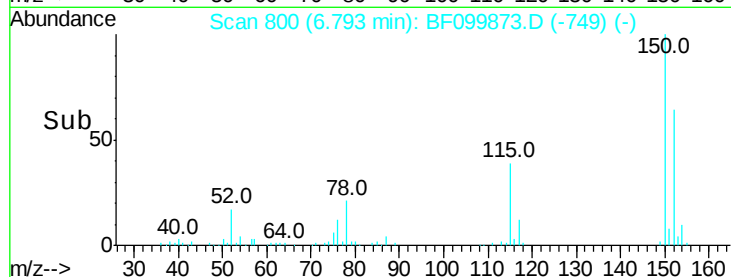


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

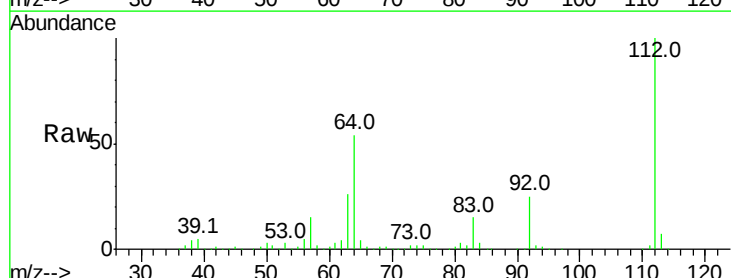
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 92.419 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	47.9	71.9
63	25.8	23.7	35.5

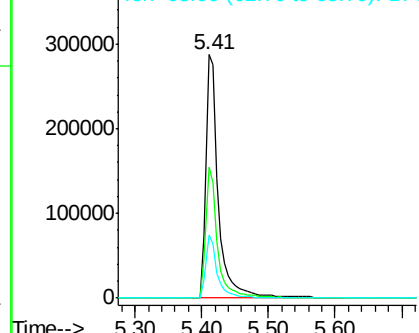
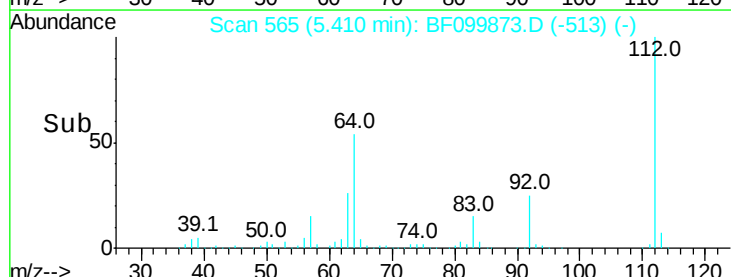


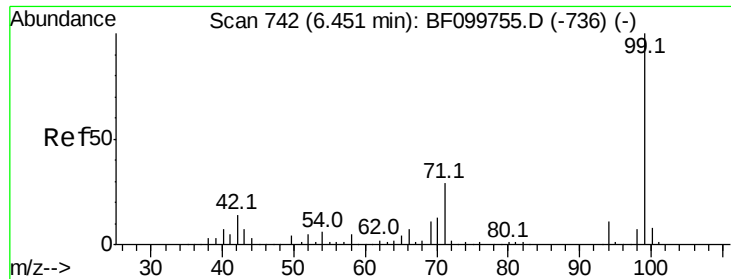
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 95.179 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF099873.D

Acq: 26 Oct 2017 21:11

Instrument :

BNA_F

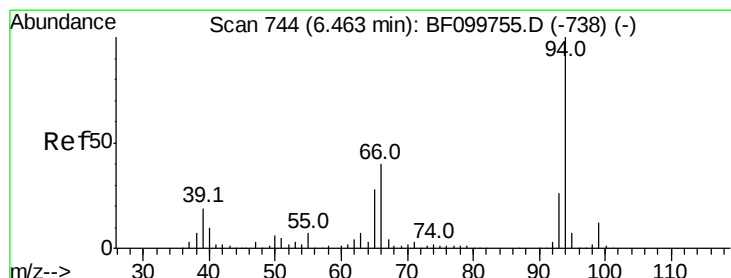
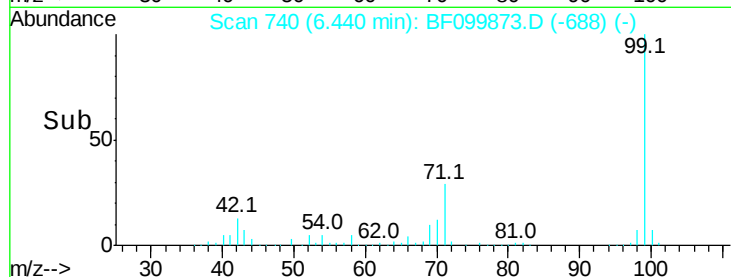
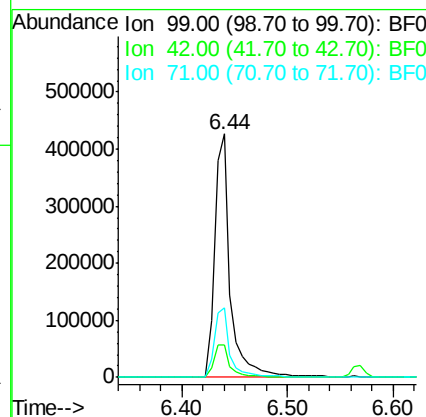
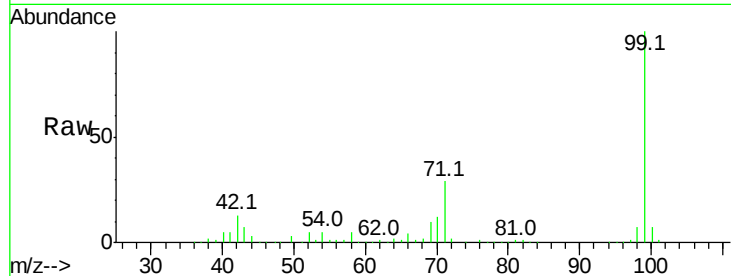
ClientSampleId :

1-MARION26KV-(2-3)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		443589		
42	13.4	14.5	21.7#		
71	28.5	25.4	38.0		

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#10

Phenol

Concen: 4.797 ng

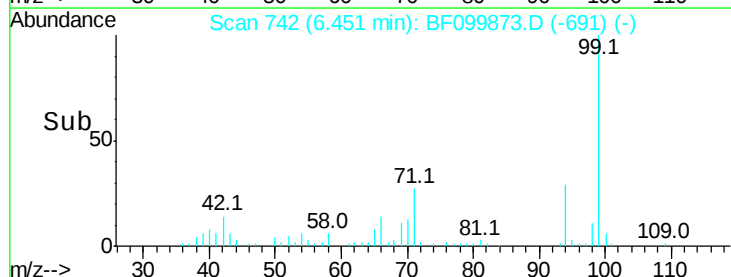
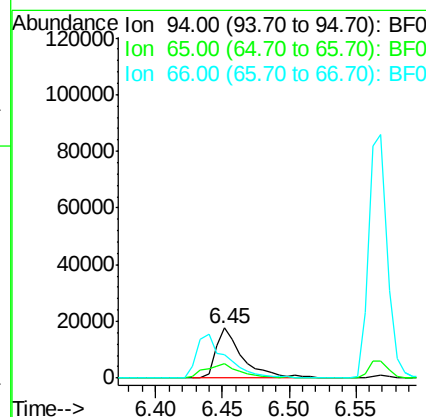
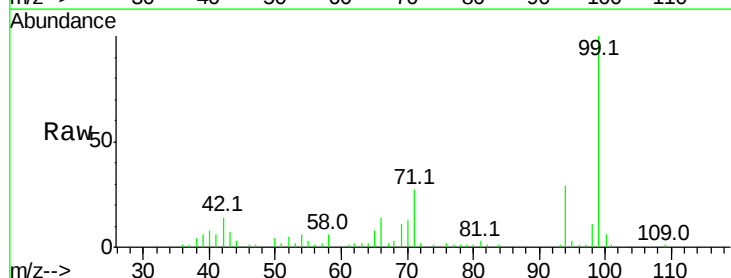
RT: 6.45 min Scan# 742

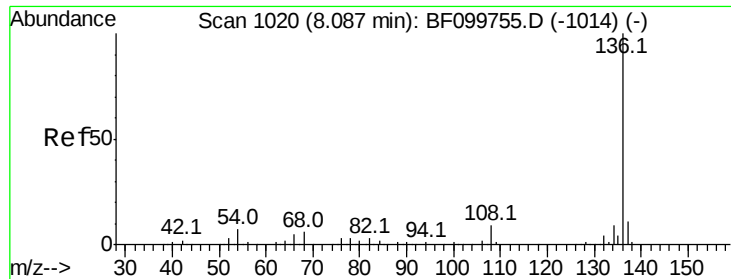
Delta R.T. 0.00 min

Lab File: BF099873.D

Acq: 26 Oct 2017 21:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		24548		
65	28.9	7.9	47.9		
66	47.5	16.2	56.2		





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. 0.00 min

Lab File: BF099873.D

Acq: 26 Oct 2017 21:11

Instrument :

BNA_F

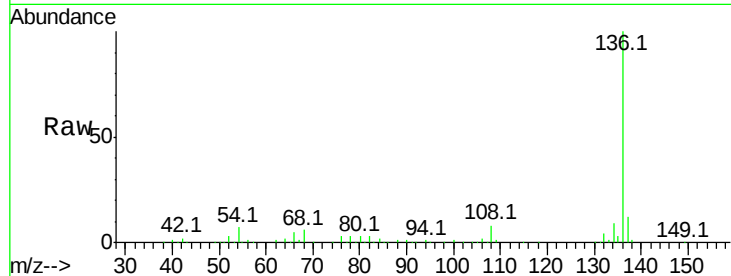
ClientSampleId :

1-MARION26KV-(2-3)

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.6	8.9	13.3	
54	7.1	6.6	9.8	
68	6.2	5.0	7.4	

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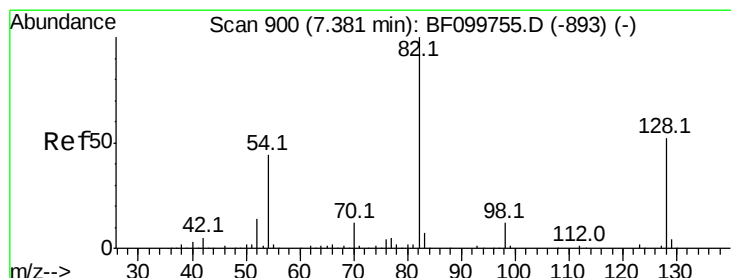
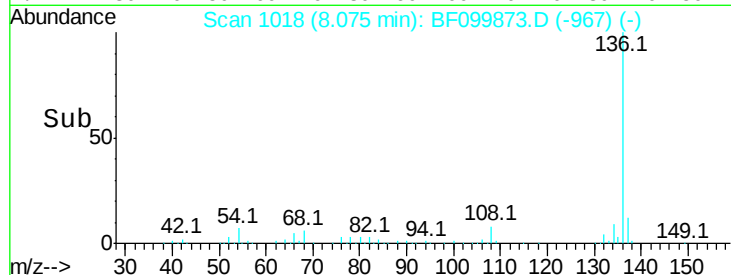
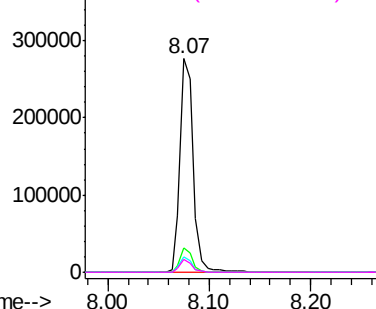


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 66.816 ng

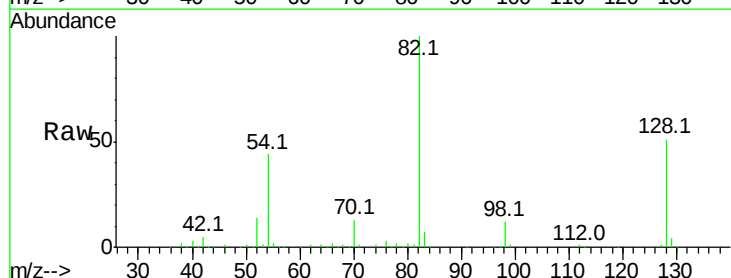
RT: 7.36 min Scan# 897

Delta R.T. 0.00 min

Lab File: BF099873.D

Acq: 26 Oct 2017 21:11

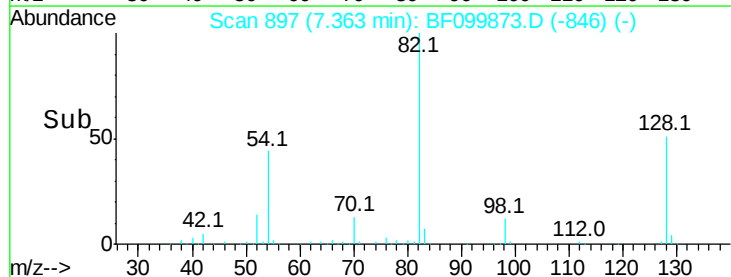
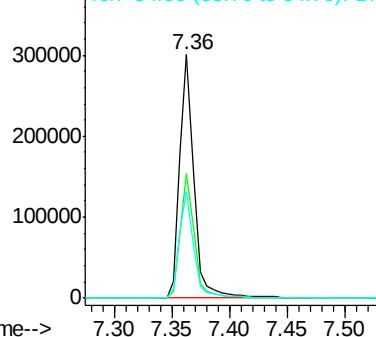
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	51.1	36.1	54.1	
54	44.1	41.4	62.2	

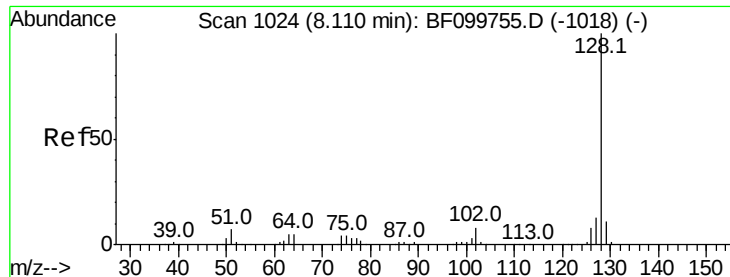


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





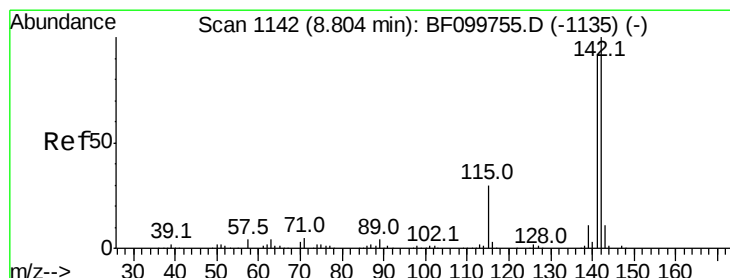
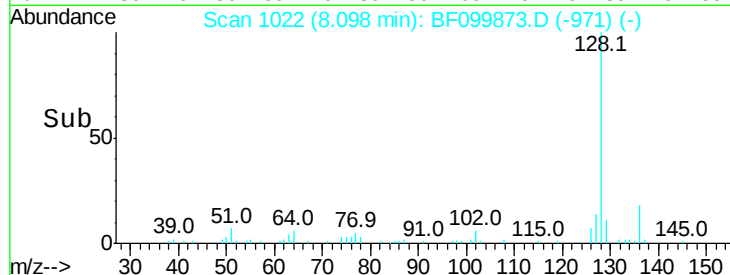
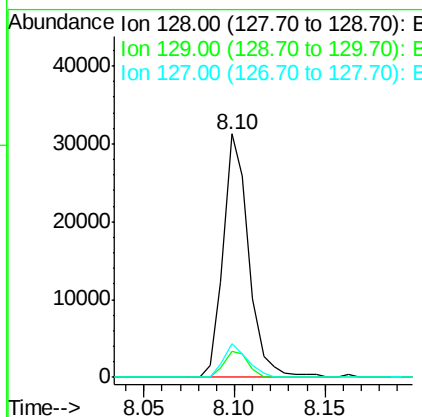
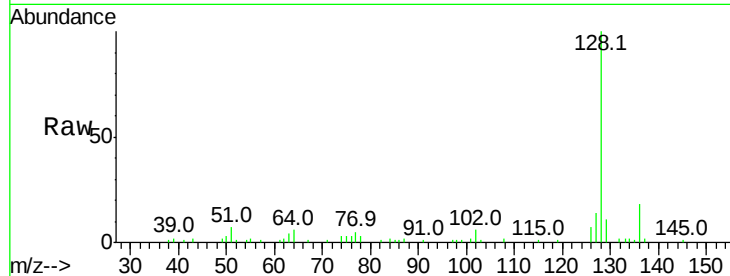
#31
Naphthalene
Concen: 2.528 ng
RT: 8.10 min Scan# 1022
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.9	10.9	16.3

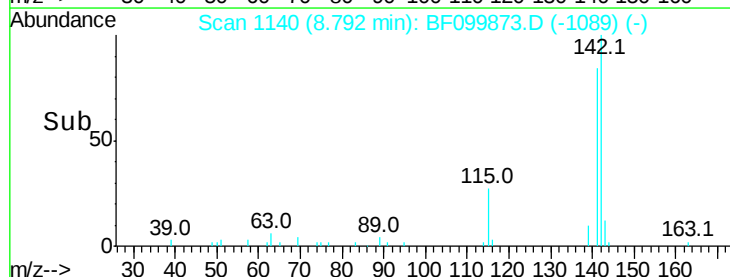
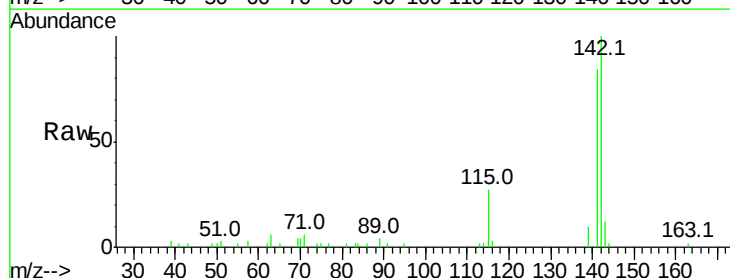
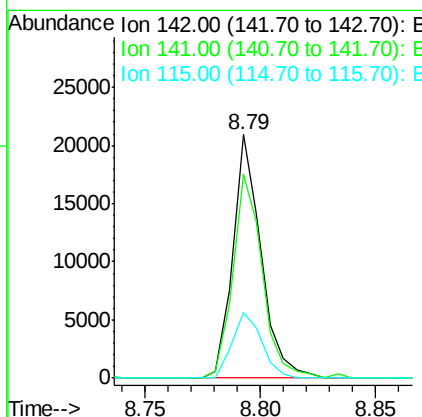
Manual Integrations
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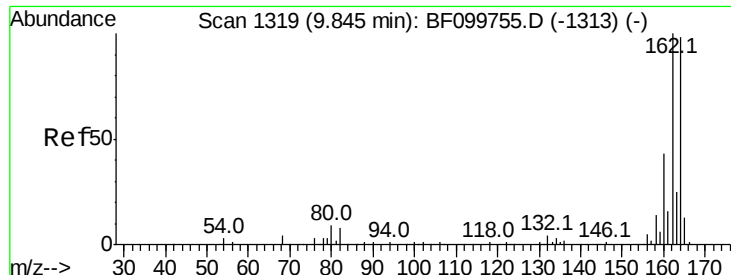
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#37
2-Methylnaphthalene
Concen: 2.201 ng
RT: 8.79 min Scan# 1140
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.6	70.8	106.2
115	26.9	26.1	39.1





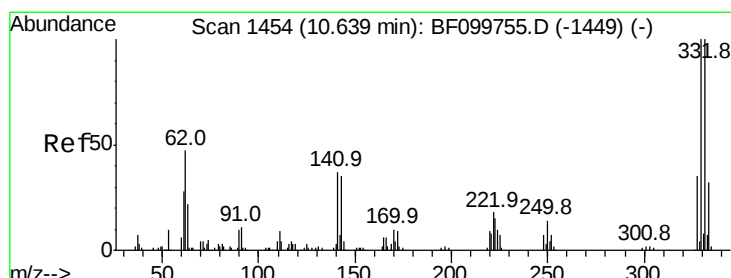
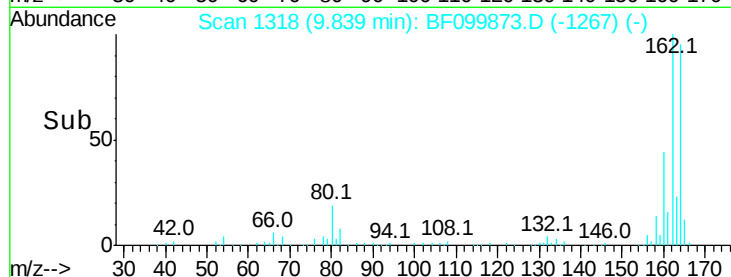
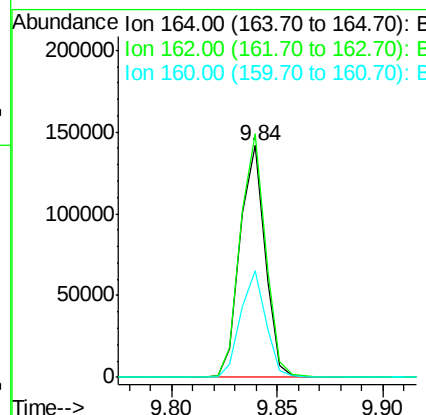
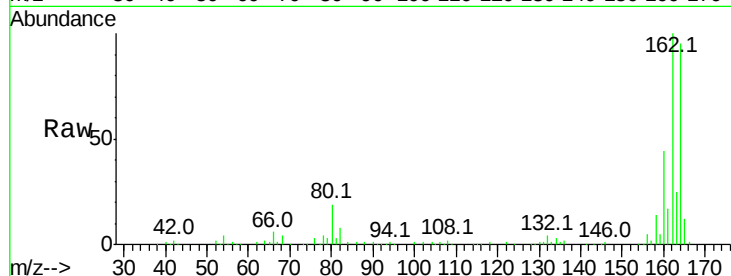
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Instrument :
 BNA_F
 ClientSampleId :
 1-MARION26KV-(2-3)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.1	86.1	129.1	
160	46.1	38.3	57.5	

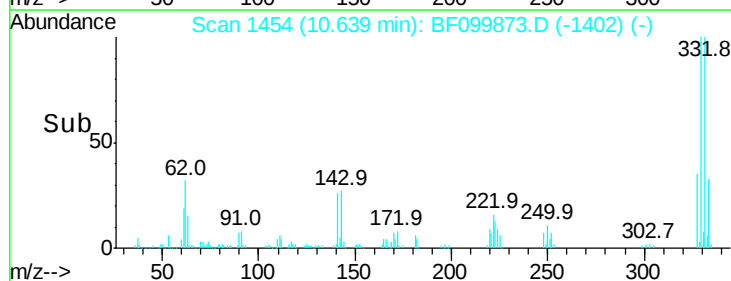
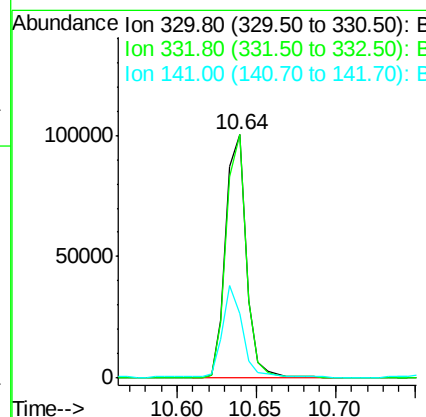
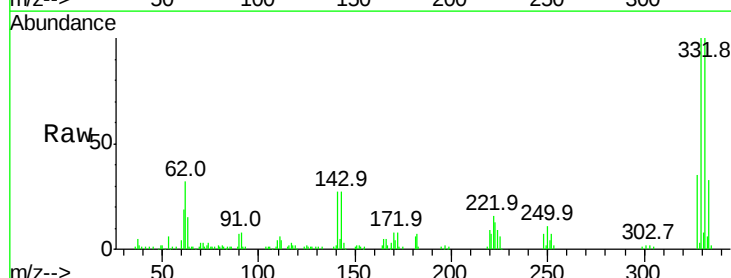
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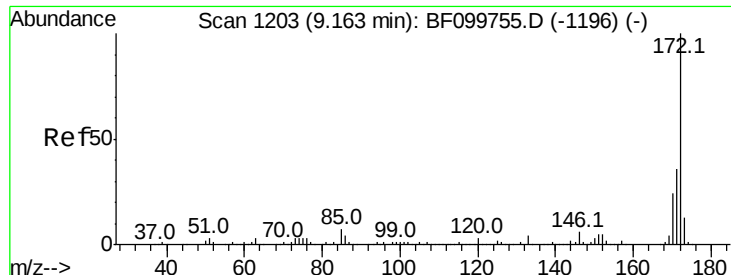
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#41
 2,4,6-Tribromophenol
 Concen: 86.478 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. 0.01 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.6	77.0	115.6	
141	38.8	29.9	44.9	





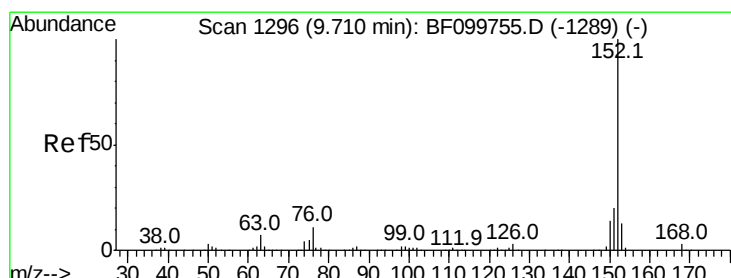
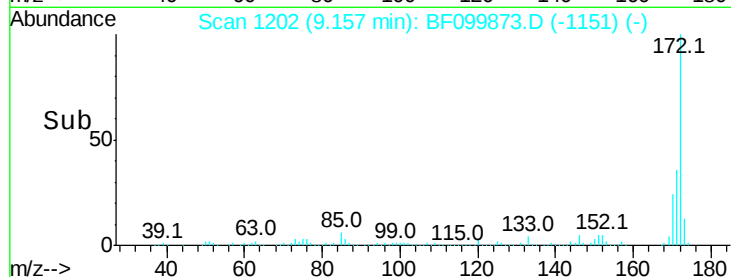
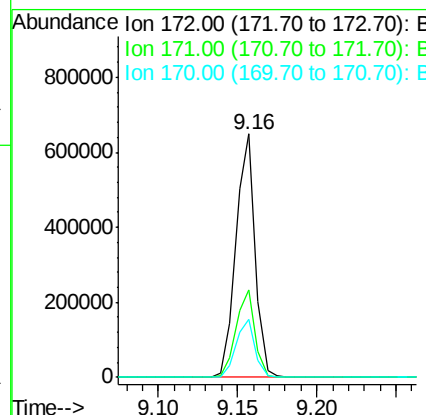
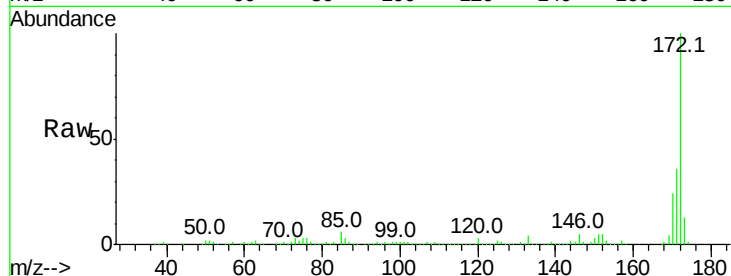
#44
2-Fluorobiphenyl
Concen: 72.640 ng
RT: 9.16 min Scan# 1202
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	544738		
171	35.8		29.7	44.5
170	23.8		19.6	29.4

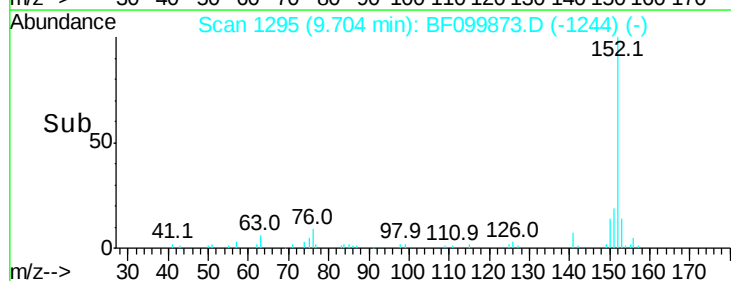
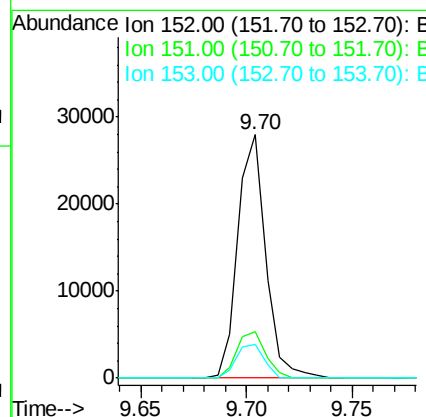
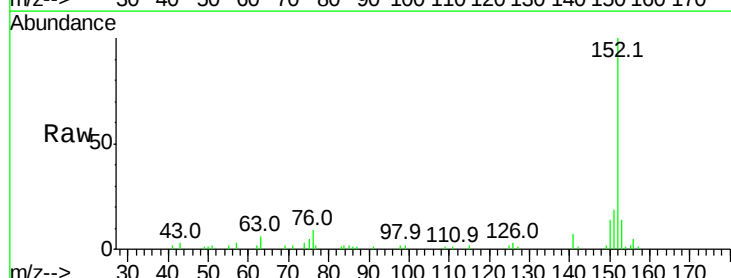
Manual Integrations
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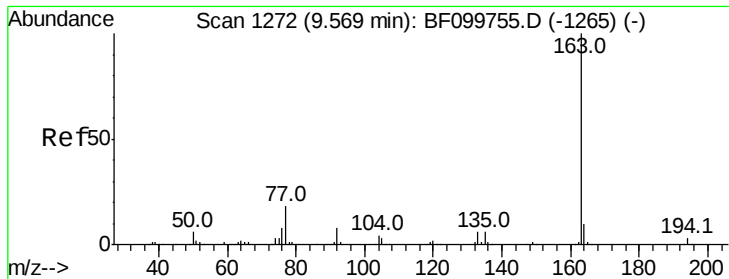
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#48
Acenaphthylene
Concen: 2.173 ng
RT: 9.70 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	25441		
151	19.0		16.3	24.5
153	13.9		10.7	16.1





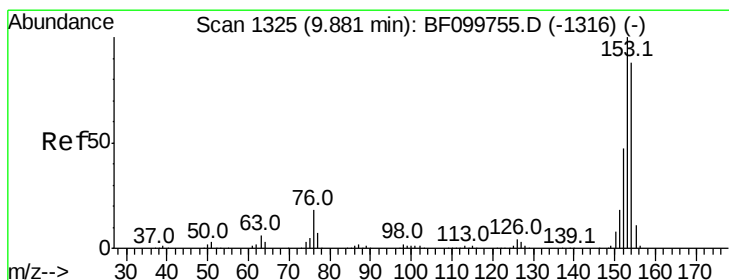
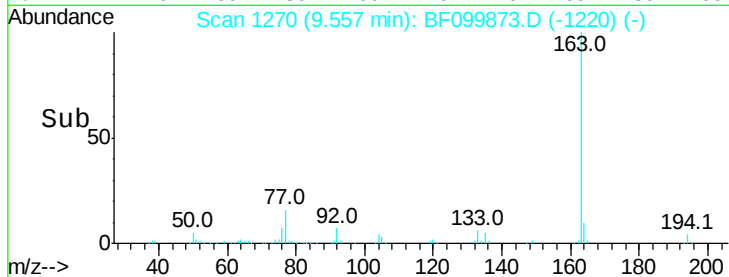
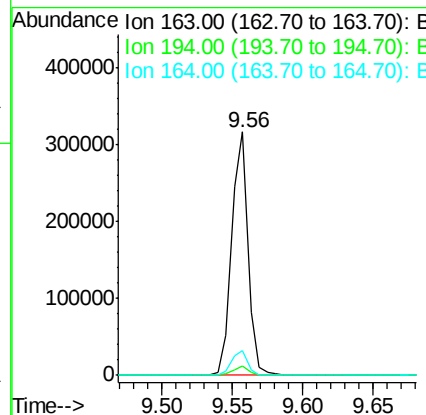
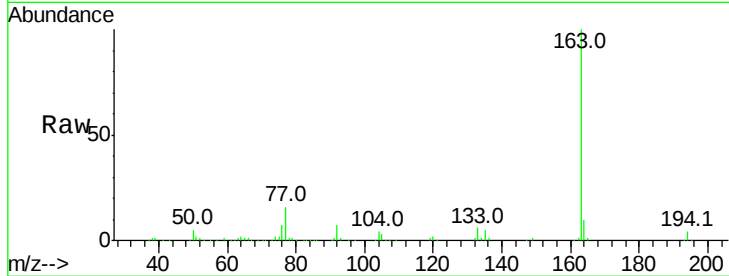
#49
Dimethylphthalate
Concen: 27.700 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	253800		
194	3.7		2.7	4.1
164	10.3		8.2	12.2

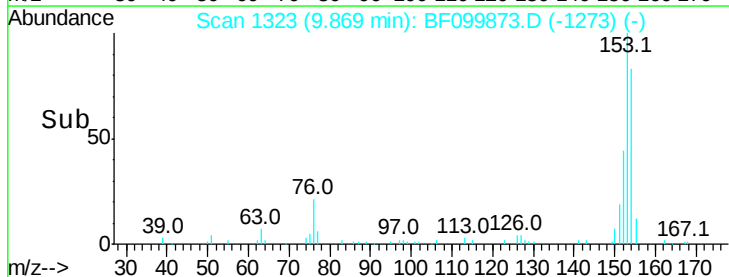
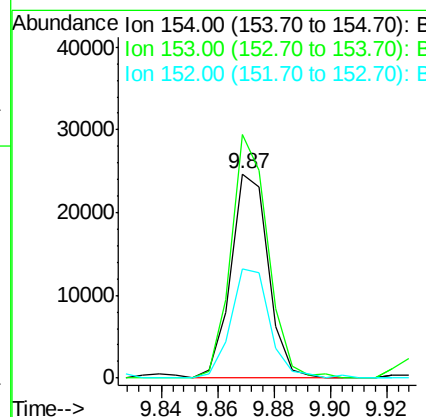
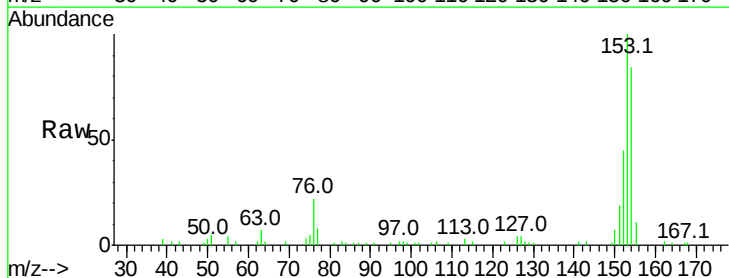
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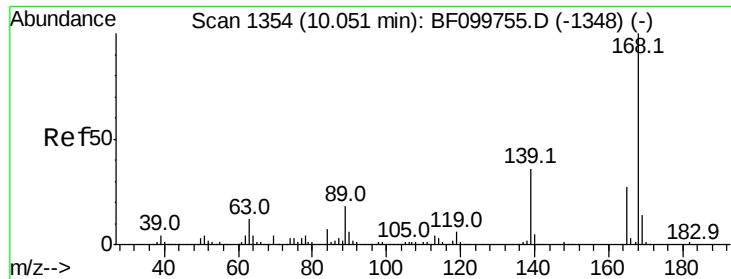
Sohil
10/27/2017 5:34:16 PM



#51
Acenaphthene
Concen: 3.174 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	22705		
153	119.1		91.2	136.8
152	53.6		43.8	65.8





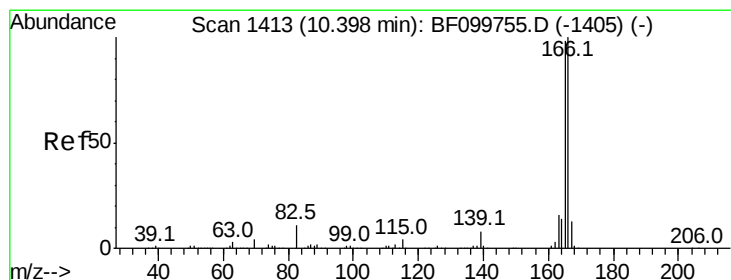
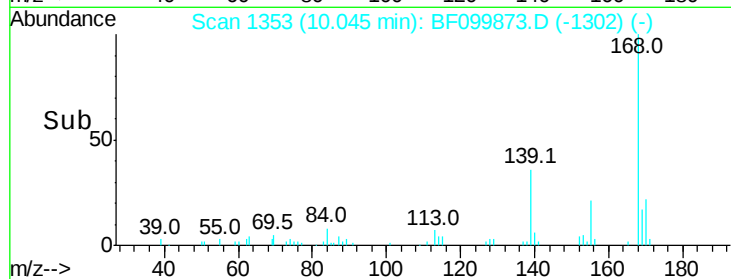
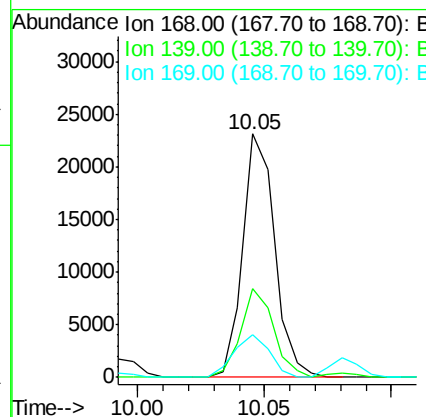
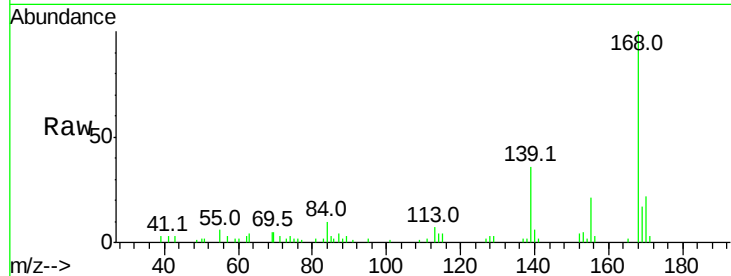
#54
Dibenzenofuran
Concen: 2.004 ng
RT: 10.05 min Scan# 1353
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.3	30.1	45.1
169	17.4	10.9	16.3

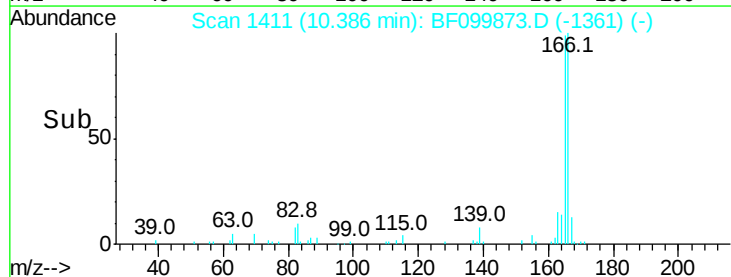
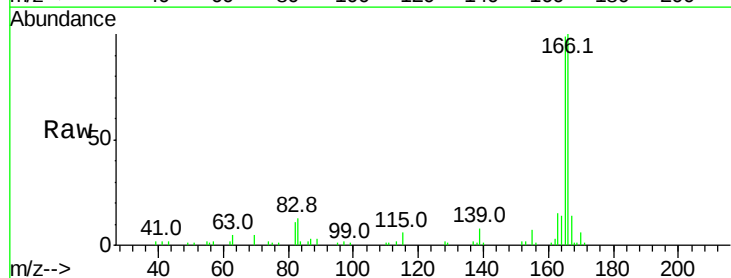
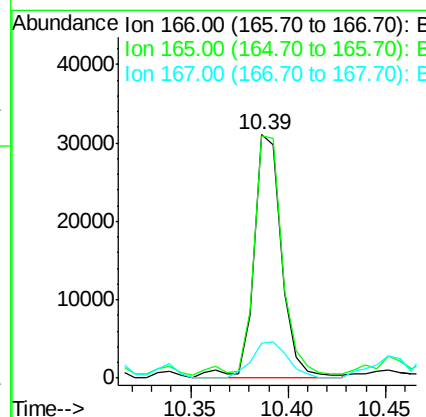
Manual Integrations
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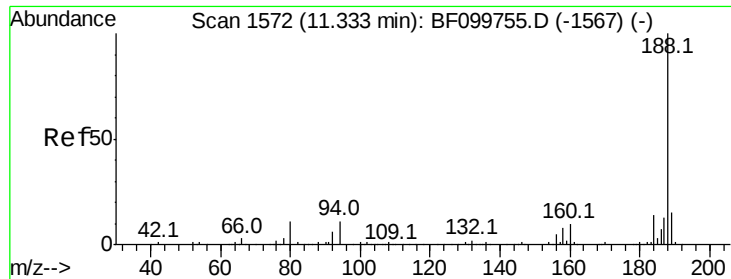
Sohil
10/27/2017 5:34:16 PM



#57
Fluorene
Concen: 3.689 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.8
167	14.5	10.6	16.0





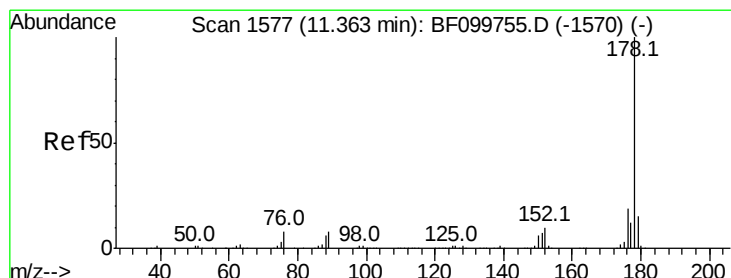
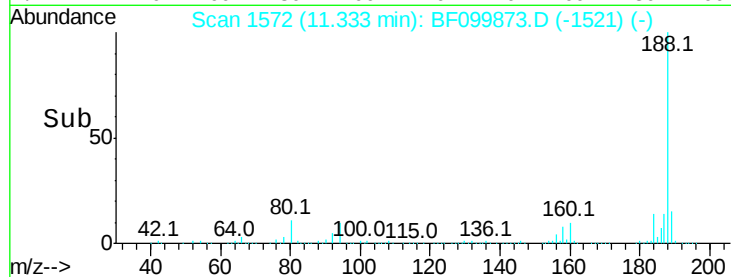
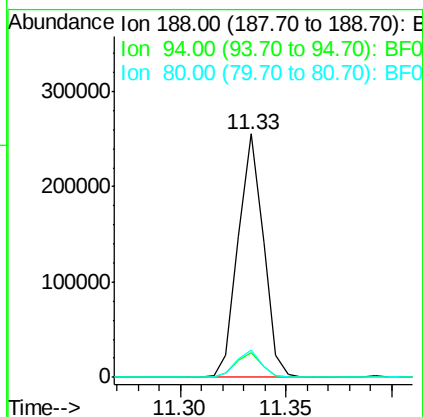
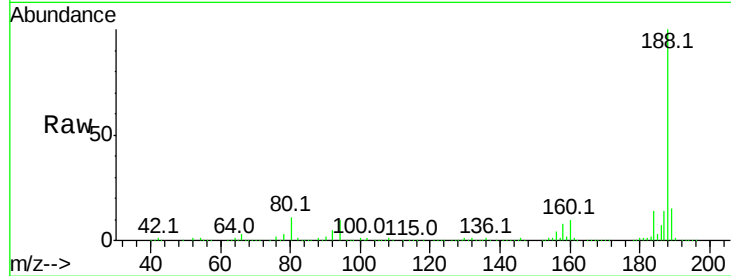
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.9	8.5	12.7
80	11.0	9.2	13.8

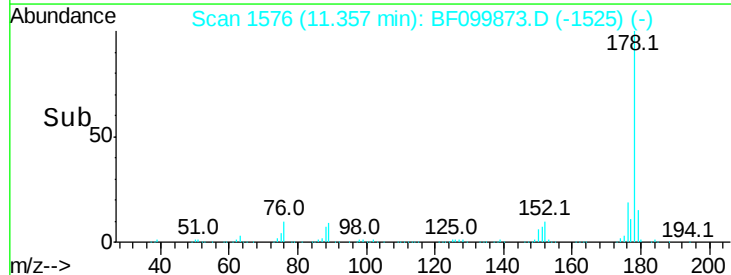
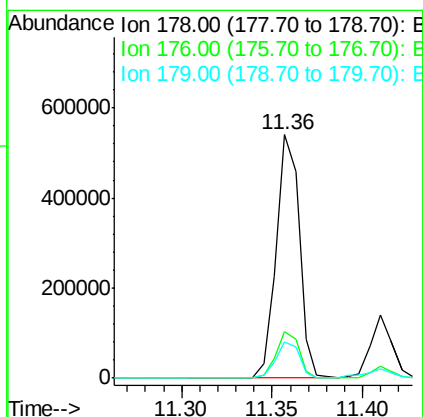
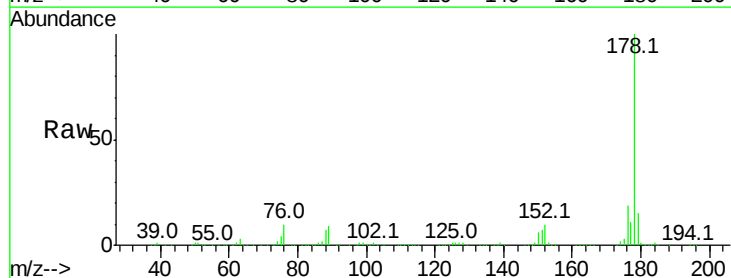
Manual Integrations
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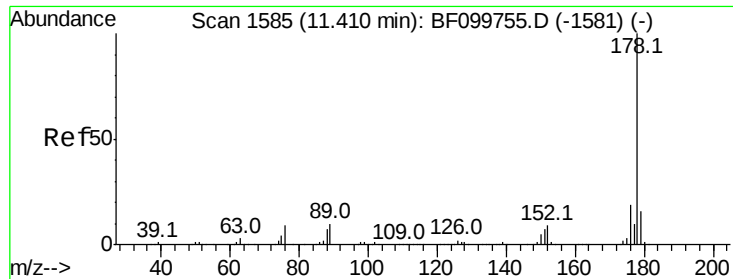
Sohil
10/27/2017 5:34:16 PM



#70
Phenanthrene
Concen: 40.446 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.1	13.0	19.6





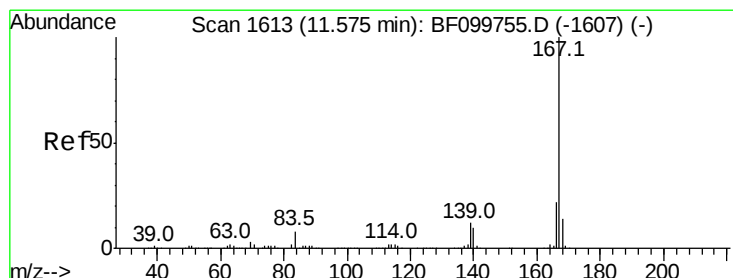
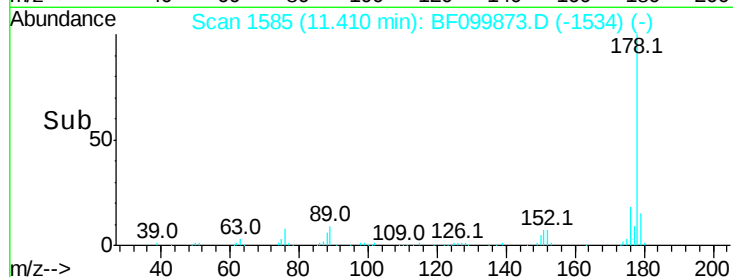
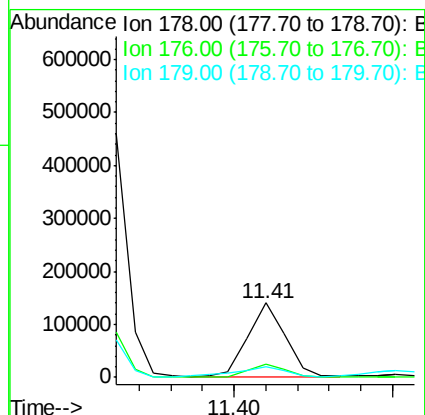
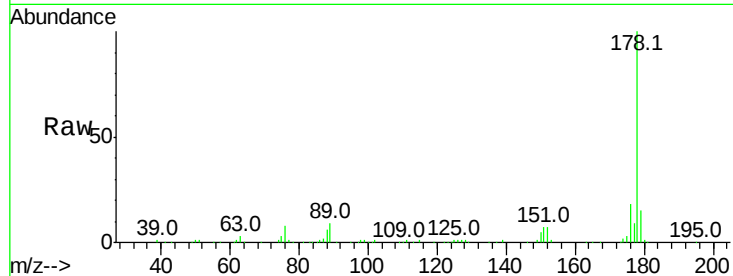
#71
 Anthracene
 Concen: 9.363 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Instrument :
 BNA_F
 ClientSampleId :
 1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	15.1	12.6	19.0

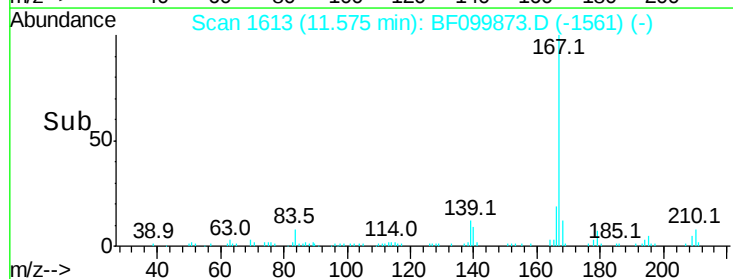
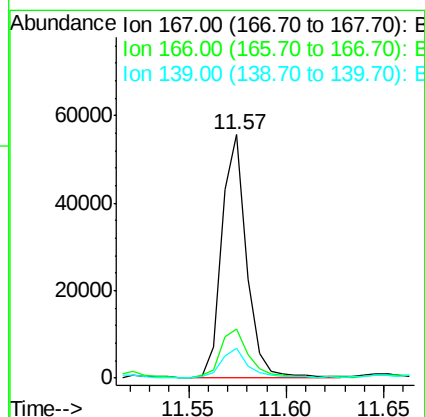
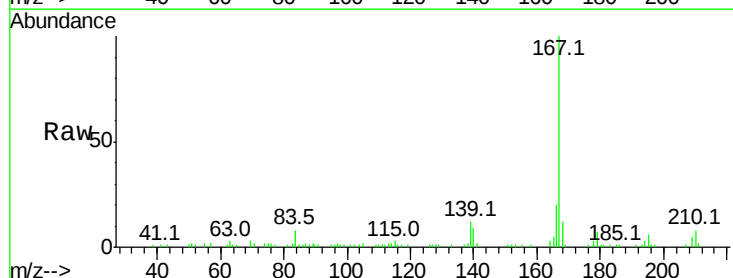
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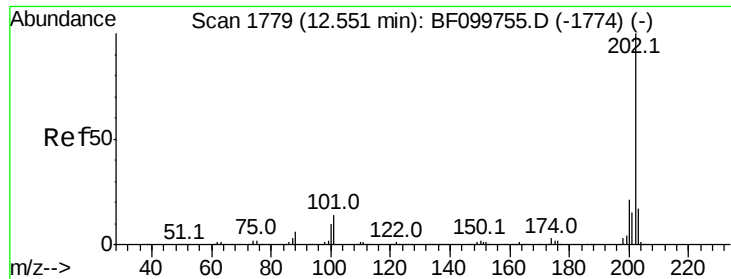
Sohil
 10/27/2017 5:34:16 PM



#72
 Carbazole
 Concen: 4.355 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. 0.01 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
167	100		
166	19.9	17.6	26.4
139	12.0	10.9	16.3





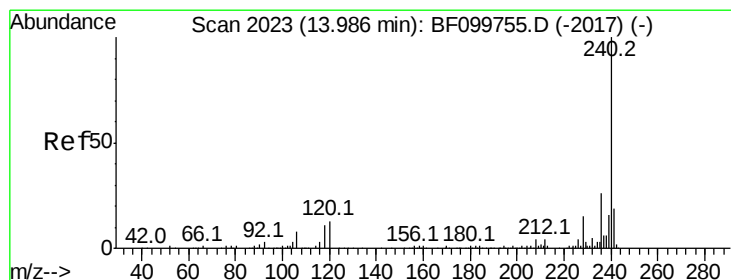
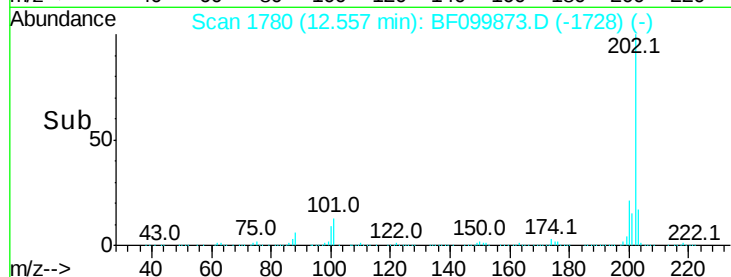
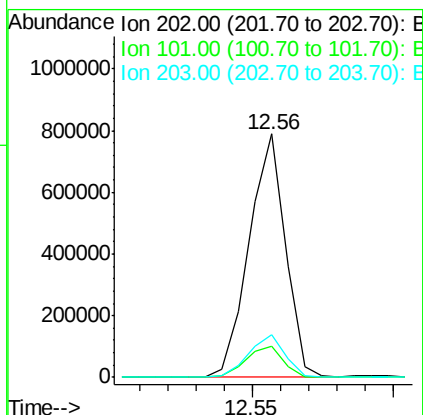
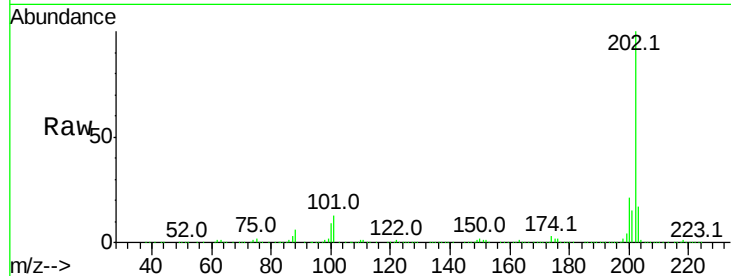
#74
 Fluoranthene
 Concen: 57.236 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. 0.01 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Instrument :
 BNA_F
 ClientSampleId :
 1-MARION26KV-(2-3)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.8	0.0	34.1
203	17.5	0.0	38.1

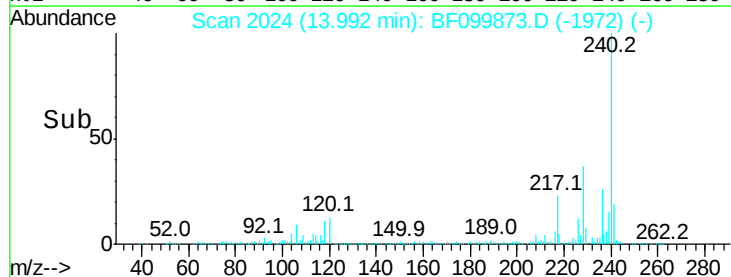
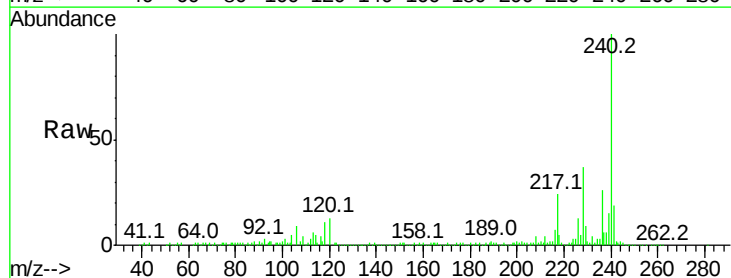
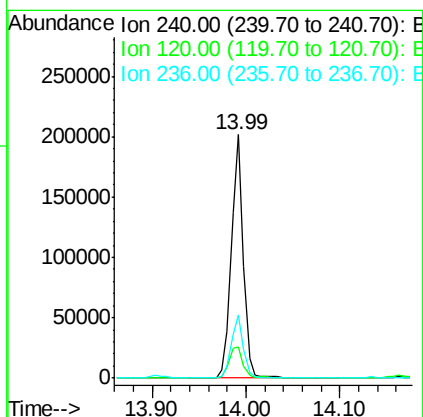
Manual Integrations
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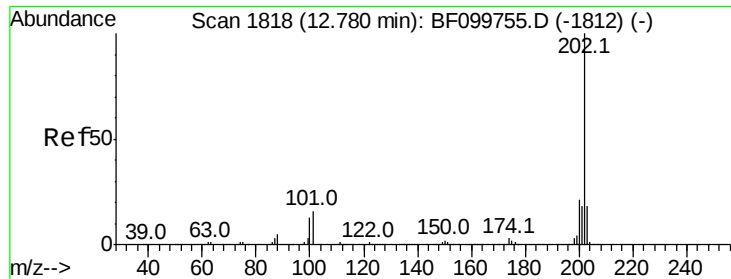
Sohil
 10/27/2017 5:34:16 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. 0.01 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.7	9.5	14.3
236	25.7	20.7	31.1





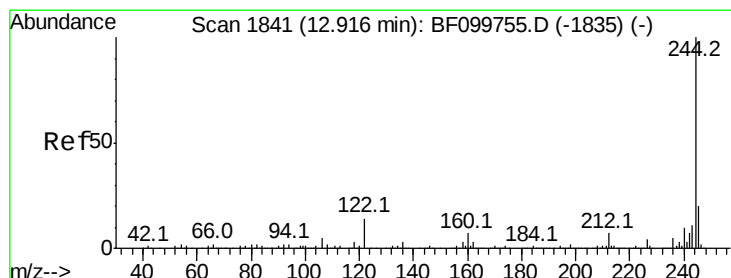
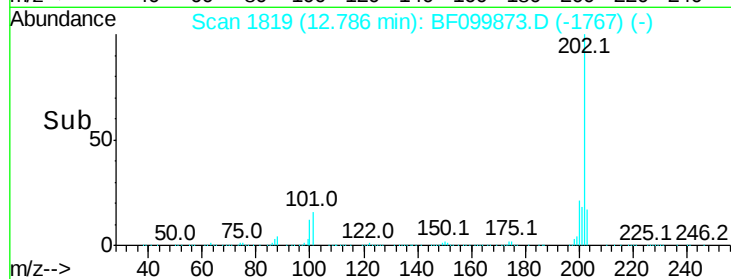
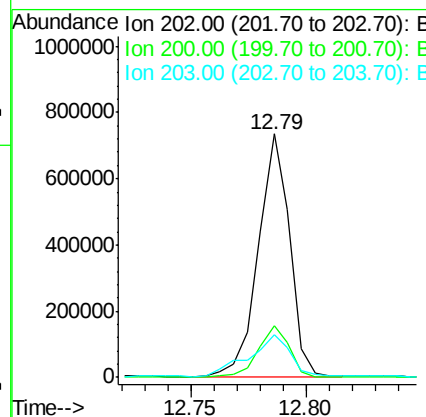
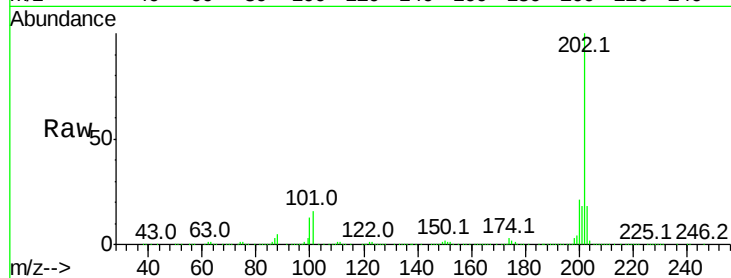
#77
Pvrene
Concen: 51.164 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2
203	17.7	14.3	21.5

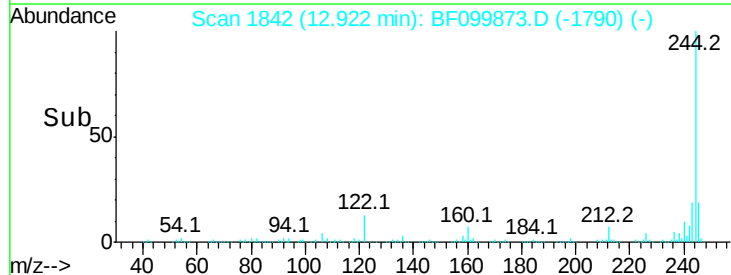
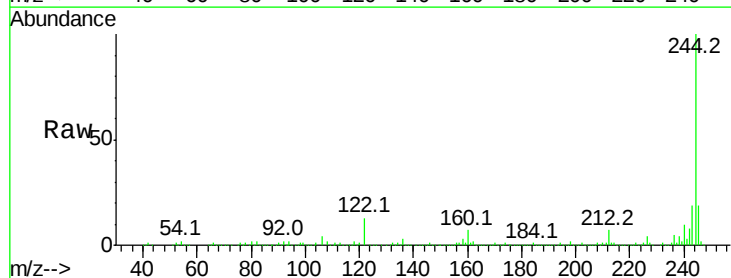
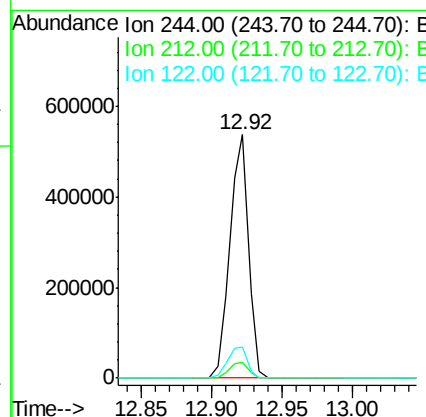
Manual Integrations
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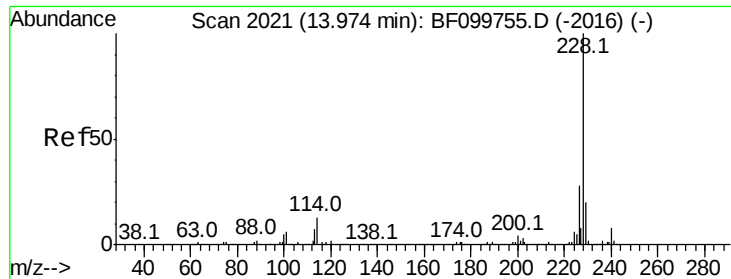
Sohil
10/27/2017 5:34:16 PM



#78
Terphenyl-d14
Concen: 60.089 ng
RT: 12.92 min Scan# 1842
Delta R.T. 0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	12.5	11.0	16.4





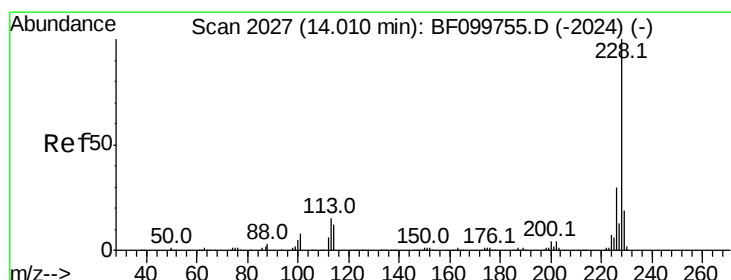
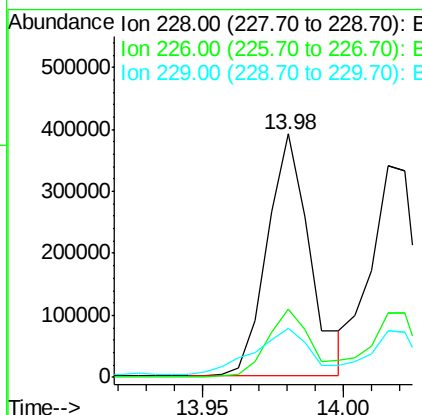
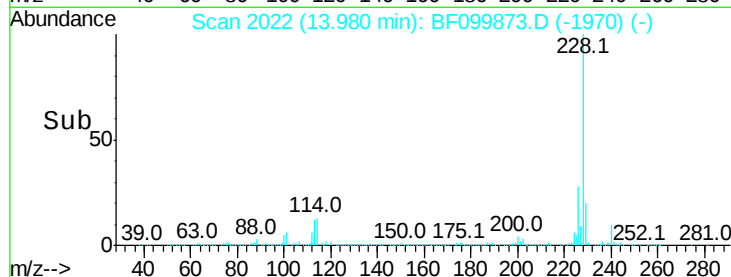
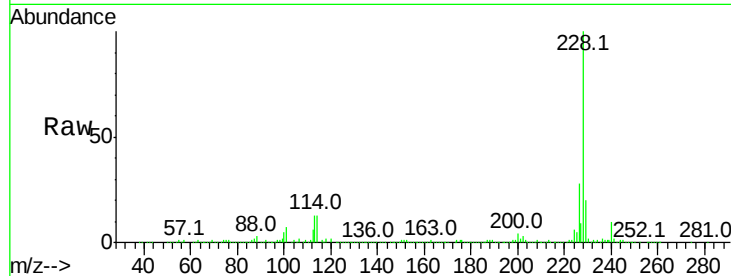
#80
Benzo(a)anthracene
Concen: 36.341 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.01 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	20.3	15.8	23.6

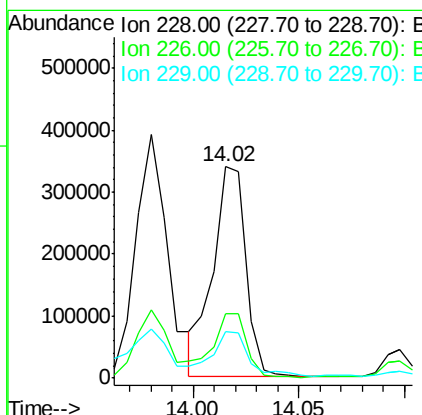
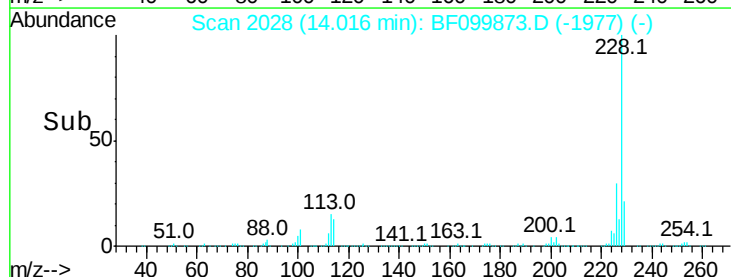
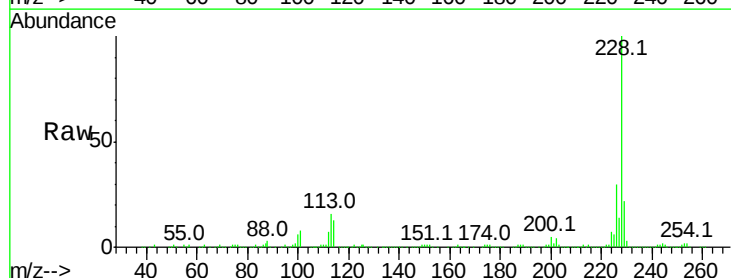
Manual Integrations
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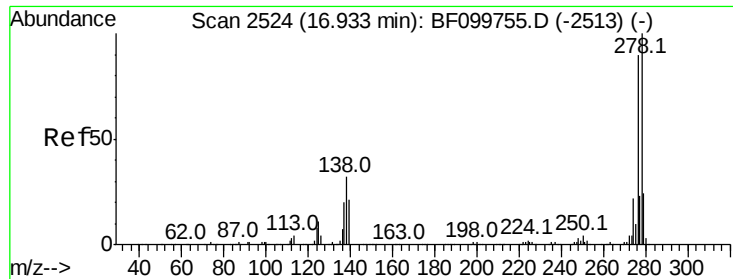
Sohil
10/27/2017 5:34:16 PM



#82
Chrysene
Concen: 34.755 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	21.9	16.2	24.4





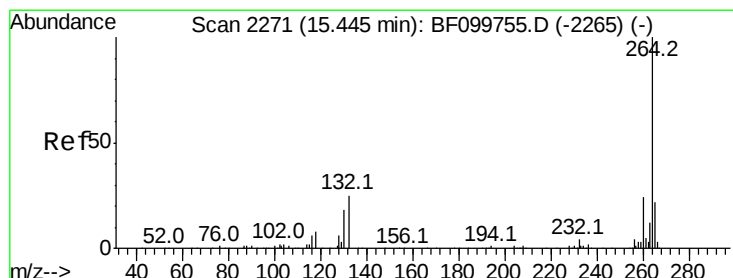
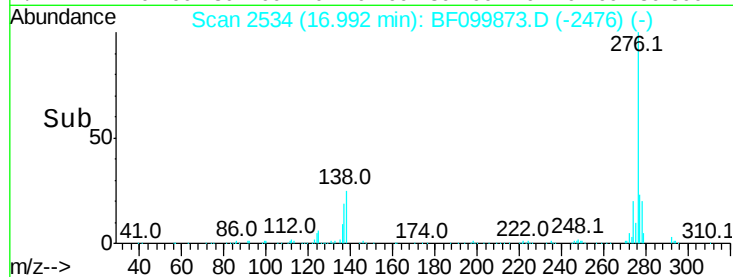
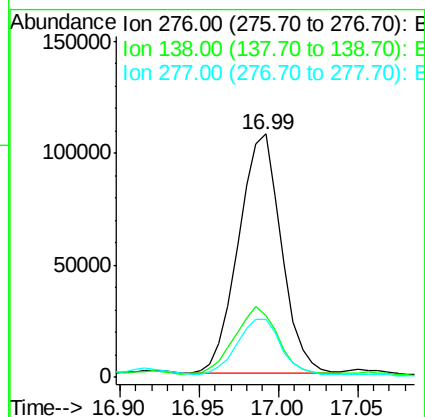
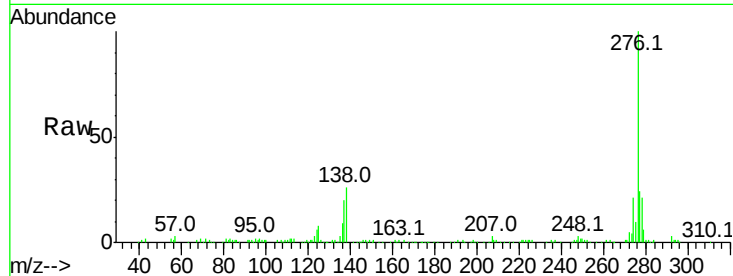
#85
Indeno(1,2,3-cd)pyrene
Concen: 20.555 ng
RT: 16.99 min Scan# 2534
Delta R.T. 0.04 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion:	276	Resp:	201544
Ion Ratio	Lower	Upper	
276	100		
138	28.4	25.0	37.6
277	23.6	20.1	30.1

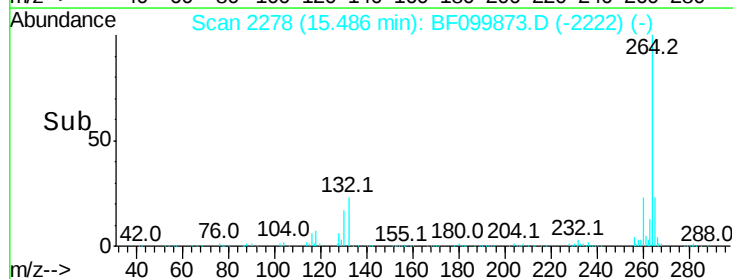
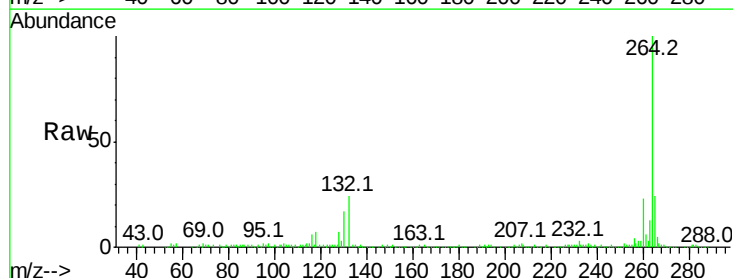
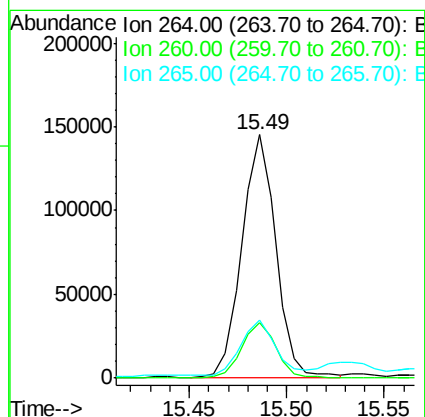
Manual Integrations
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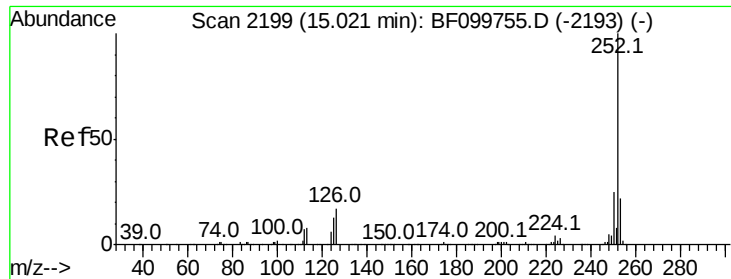
Sohil
10/27/2017 5:34:16 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.03 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion:	264	Resp:	174139
Ion Ratio	Lower	Upper	
264	100		
260	23.0	19.2	28.8
265	23.6	17.5	26.3





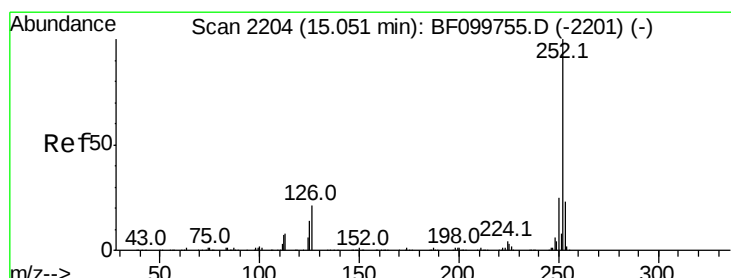
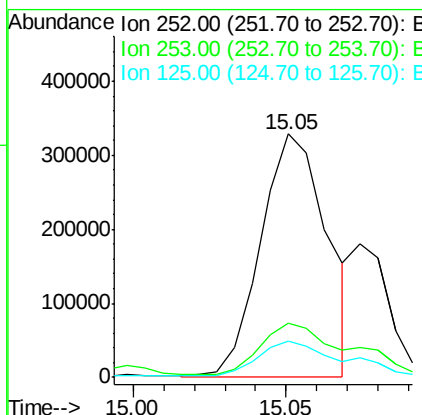
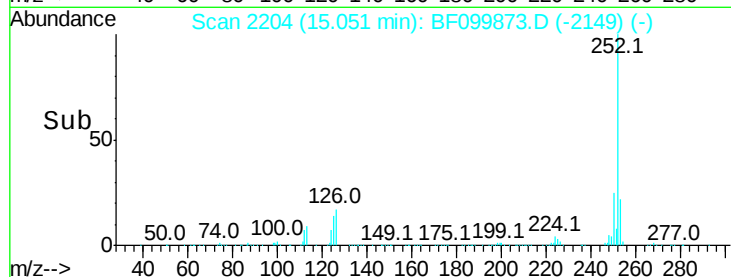
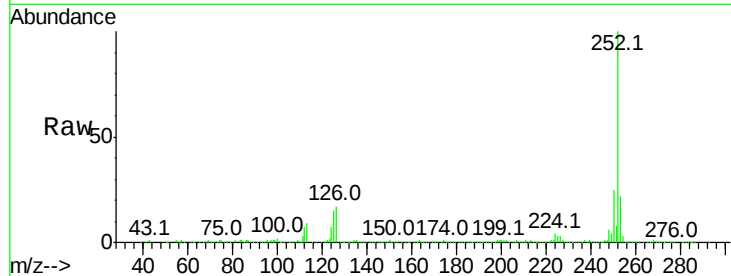
#87
Benzo(b)fluoranthene
Concen: 45.135 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.02 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Instrument :
BNA_F
ClientSampleId :
1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	14.7	9.0	13.6

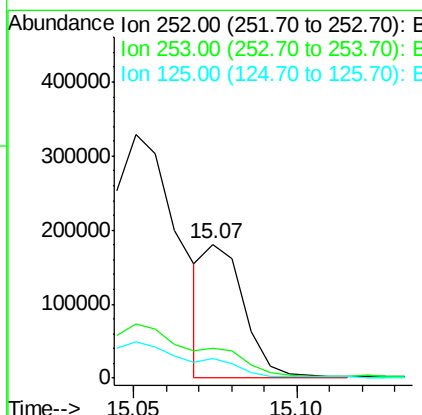
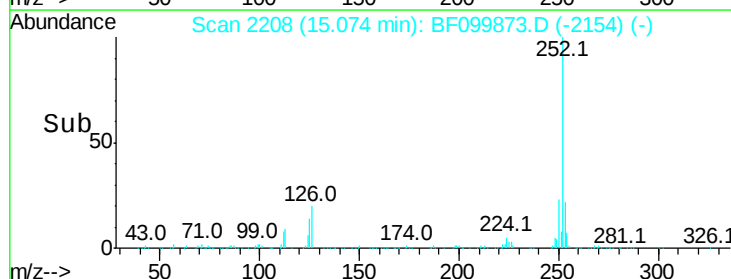
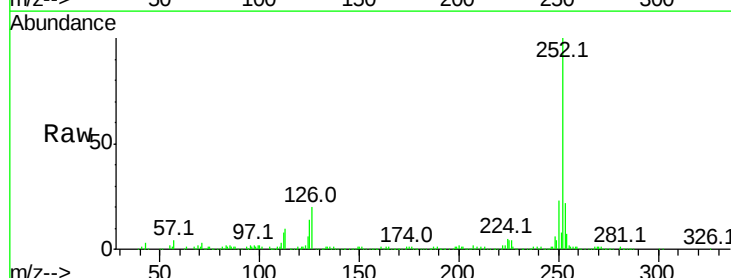
Manual Integrations
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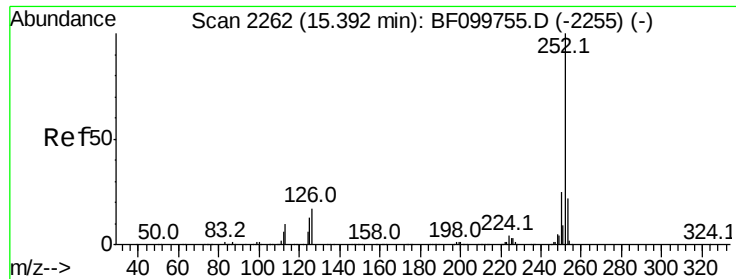
Sohil
10/27/2017 5:34:16 PM



#88
Benzo(k)fluoranthene
Concen: 14.479 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF099873.D
Acq: 26 Oct 2017 21:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	14.4	10.2	15.2





#89

Benzo(a)pyrene

Concen: 36.700 ng

RT: 15.43 min Scan# 2268

Delta R.T. 0.03 min

Lab File: BF099873.D

Acq: 26 Oct 2017 21:11

Instrument :

BNA_F

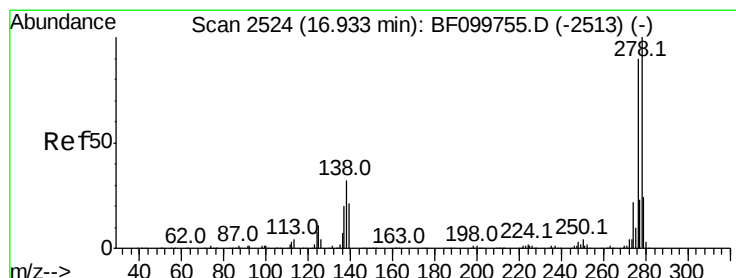
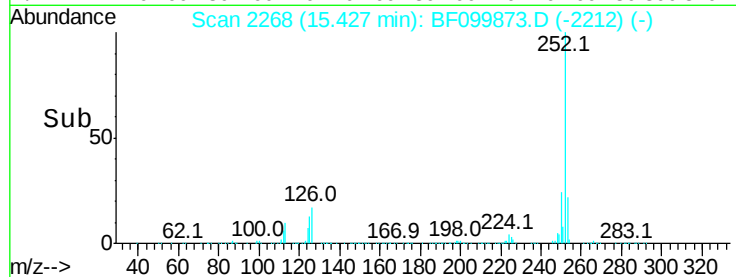
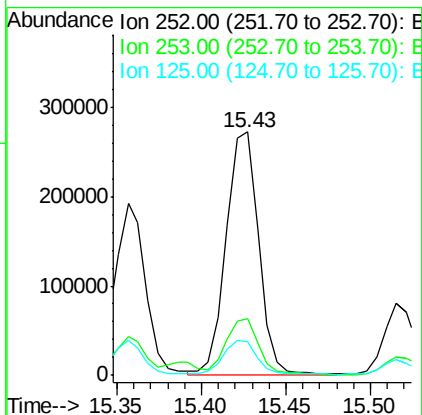
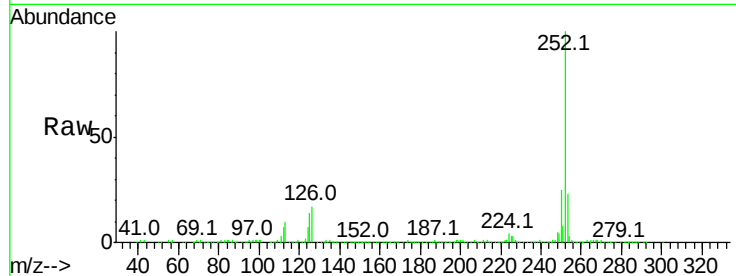
ClientSampleId :

1-MARION26KV-(2-3)

Tot Ion:	252	Resp:	362502
Ion Ratio		Lower	Upper
252	100		
253	23.2	17.1	25.7
125	13.8	9.8	14.6

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#90

Dibenzo(a,h)anthracene

Concen: 6.064 ng m

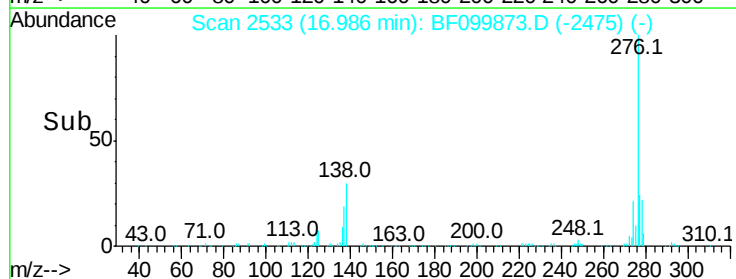
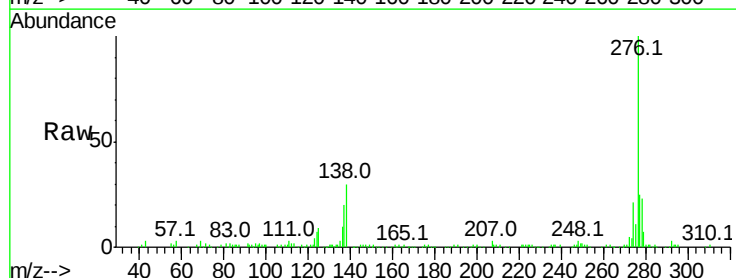
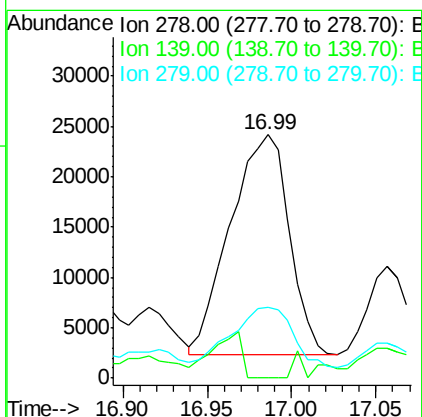
RT: 16.99 min Scan# 2533

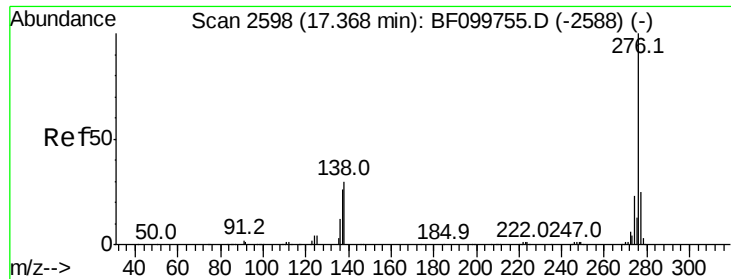
Delta R.T. 0.04 min

Lab File: BF099873.D

Acq: 26 Oct 2017 21:11

Tgt Ion:	278	Resp:	53224
Ion Ratio		Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.1	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 22.782 ng
 RT: 17.44 min Scan# 2611
 Delta R.T. 0.05 min
 Lab File: BF099873.D
 Acq: 26 Oct 2017 21:11

Instrument :
 BNA_F
 ClientSampleId :
 1-MARION26KV-(2-3)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.1	17.9	26.9
138	29.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 10/27/2017 5:34:16 PM

