

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
 Data File : BF097387.D
 Acq On : 5 Aug 2017 6:25
 Operator : SJ/JU
 Sample : I4522-03DL 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-SS2DL

Manual Integrations
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Sohil
 8/7/2017 6:10:20 PM

Quant Time: Aug 07 12:18:42 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.44	152	110446	20.00	ng	-0.06
21) Naphthalene-d8	7.72	136	431462	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	150559	20.00	ng	-0.07
63) Phenanthrene-d10	10.93	188	213663	20.00	ng	-0.07
75) Chrysene-d12	13.56	240	202550	20.00	ng	-0.07
86) Perylene-d12	14.89	264	156976	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.04	112	161065	21.98	ng	-0.06
7) Phenol-d6	6.12	99	228470	27.32	ng	-0.05
23) Nitrobenzene-d5	7.01	82	119729	16.28	ng	-0.06
41) 2,4,6-Tribromophenol	10.25	330	24126	20.28	ng	-0.07
44) 2-Fluorobiphenyl	8.80	172	178941	20.17	ng	-0.07
78) Terphenyl-d14	12.51	244	118949	11.97	ng	-0.08
Target Compounds						
31) Naphthalene	7.75	128	45663	2.245	ng	98
49) Dimethylphthalate	9.20	163	25198	2.204	ng	100
51) Acenaphthene	9.49	154	27939	3.265	ng	98
54) Dibenzofuran	9.67	168	23917	2.099	ng	96
57) Fluorene	10.00	166	31531	3.681	ng	97
70) Phenanthrene	10.96	178	308813	26.975	ng	99
71) Anthracene	11.01	178	91692	7.820	ng	98
72) Carbazole	11.17	167	40389	3.502	ng	97
74) Fluoranthene	12.14	202	476242	42.464	ng	98
77) Pyrene	12.36	202	427445	25.777	ng	99
80) Benzo(a)anthracene	13.54	228	263472	20.103	ng	99
82) Chrysene	13.58	228	212872	16.634	ng	98
85) Indeno(1,2,3-cd)pyrene	16.09	276	81928	7.466	ng	99
87) Benzo(b)fluoranthene	14.54	252	245166m	25.981	ng	
88) Benzo(k)fluoranthene	14.56	252	96599m	10.743	ng	
89) Benzo(a)pyrene	14.84	252	161346	18.683	ng	98
90) Dibenzo(a,h)anthracene	16.10	278	25238m	3.564	ng	
91) Benzo(g,h,i)perylene	16.45	276	69990	9.424	ng	94

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

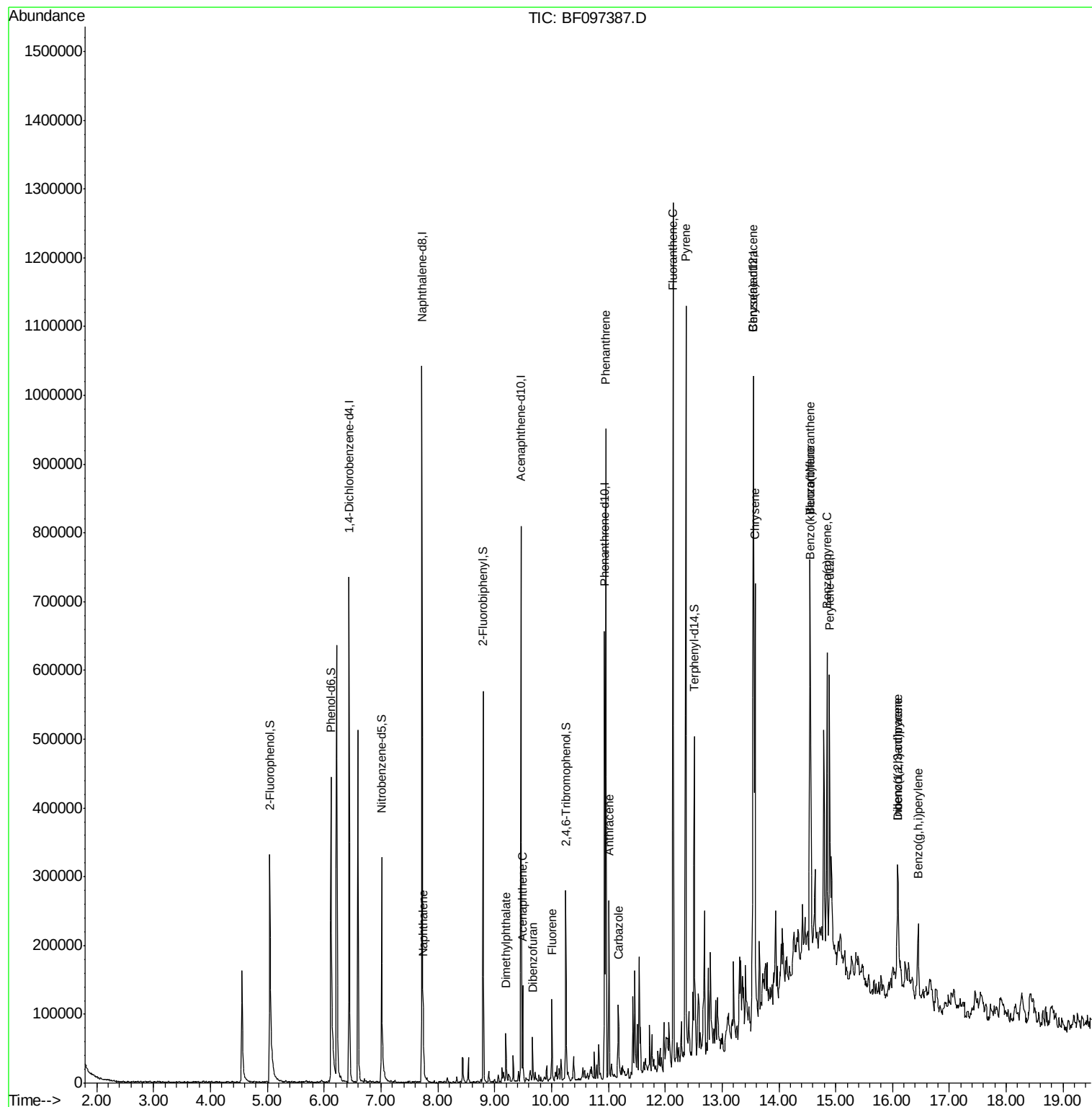
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
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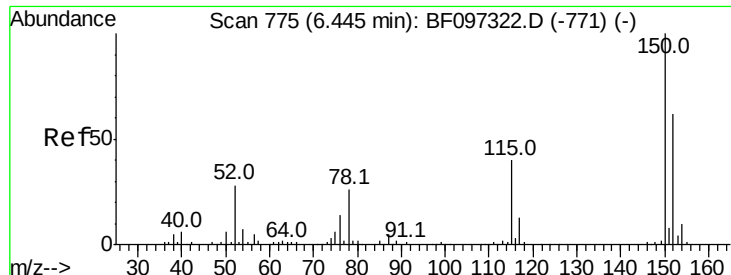
Instrument :
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TP-5-SS2DL

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#1

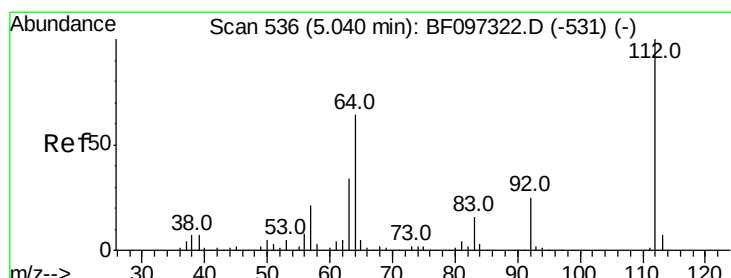
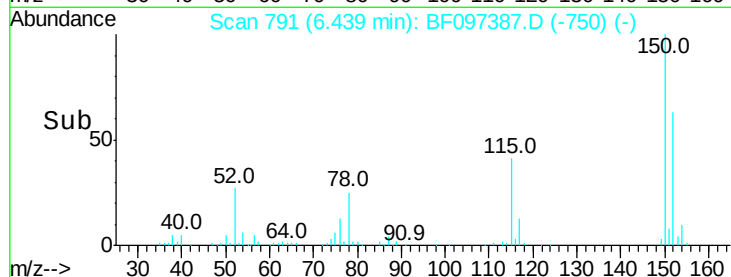
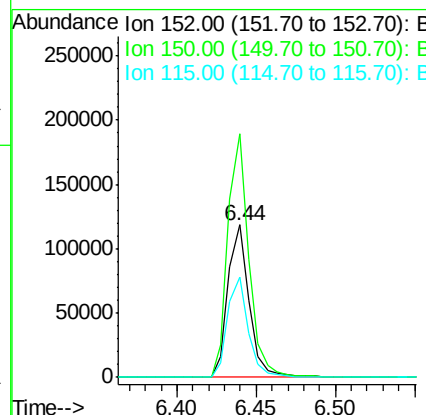
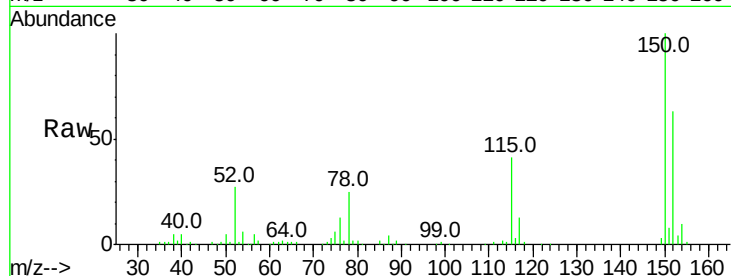
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.44 min Scan# 791
Delta R.T. -0.06 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampled :
TP-5-SS2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.6	126.2	189.2
115	65.5	52.2	78.2

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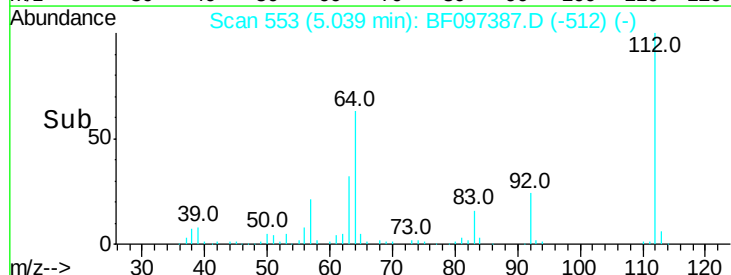
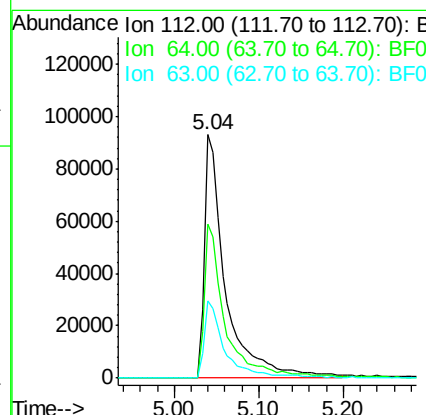
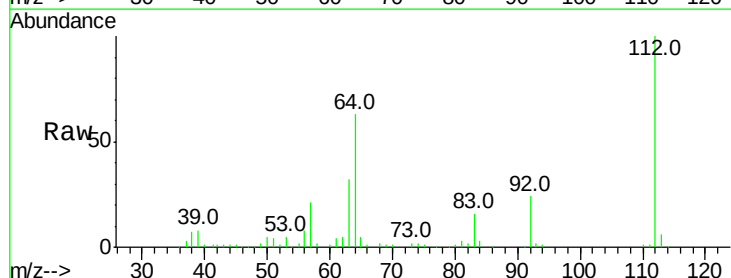
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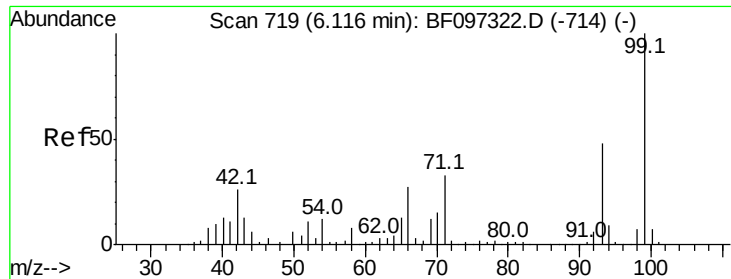


#5

2-Fluorophenol
Concen: 21.984 ng
RT: 5.04 min Scan# 553
Delta R.T. -0.06 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.2	46.0	69.0
63	31.6	23.4	35.0





#7

Phenol-d6

Concen: 27.316 ng

RT: 6.12 min Scan# 736

Delta R.T. -0.05 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Instrument :

BNA_F

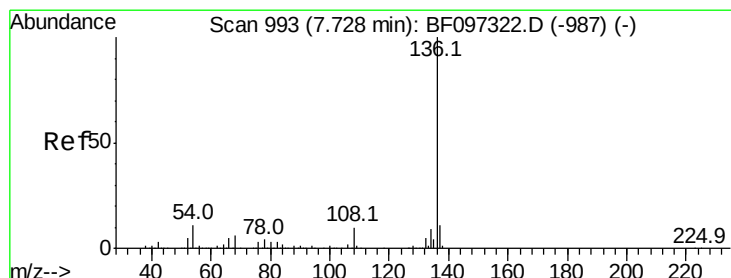
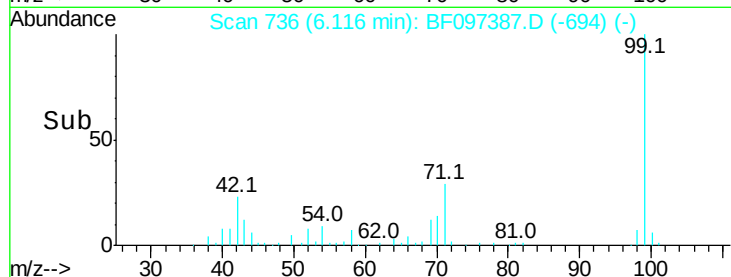
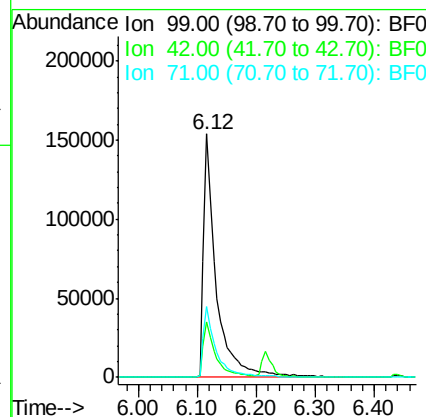
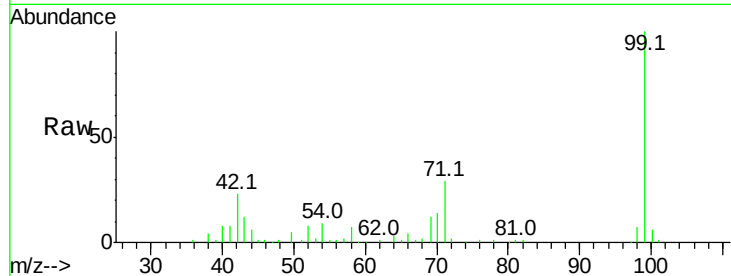
ClientSampled :

TP-5-SS2DL

Tot Ion:	99	Resp:	228470
Ion Ratio	Lower	Upper	
99	100		
42	22.6	13.5	20.3#
71	29.3	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

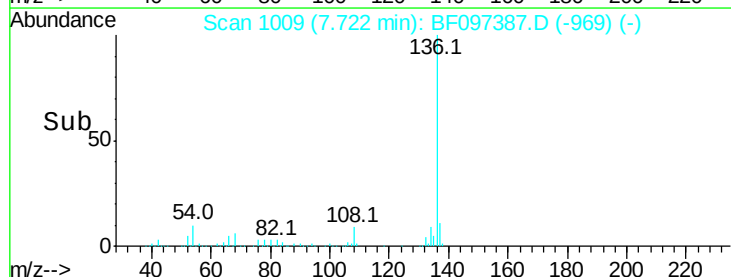
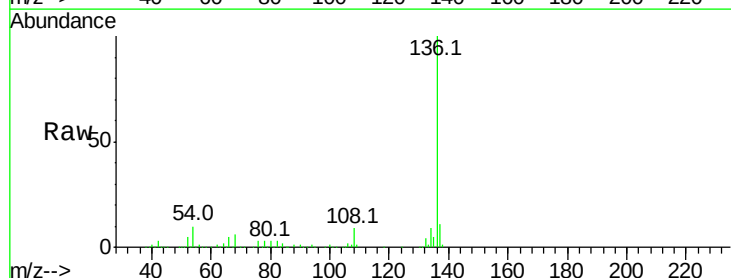
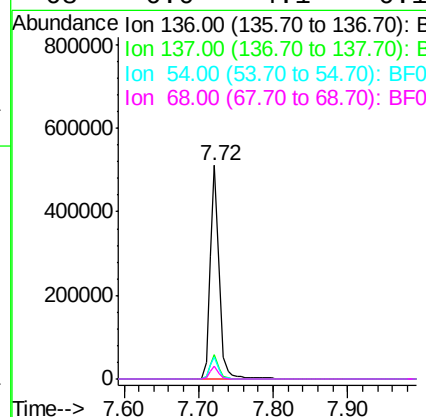
RT: 7.72 min Scan# 1009

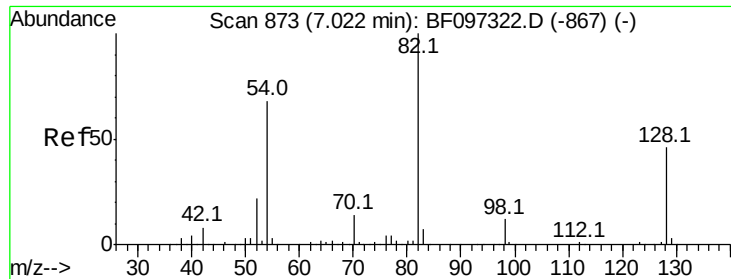
Delta R.T. -0.06 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Tgt Ion:	136	Resp:	431462
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.5	12.7
54	10.4	4.9	7.3#
68	6.0	4.1	6.1





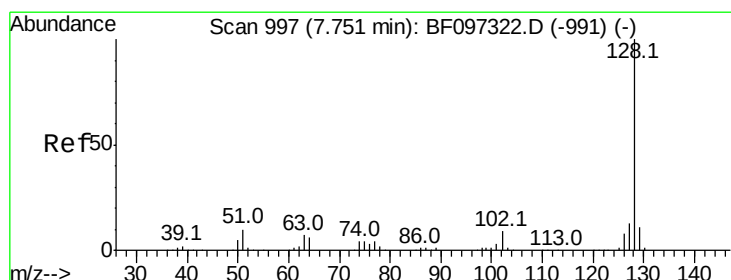
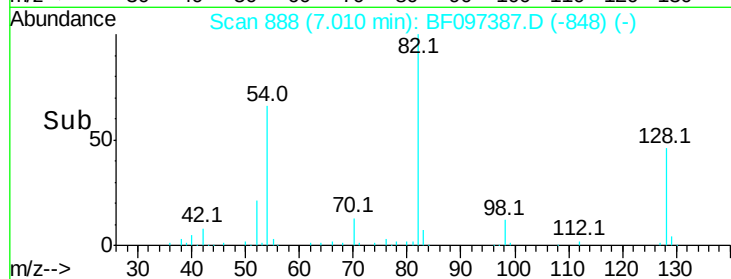
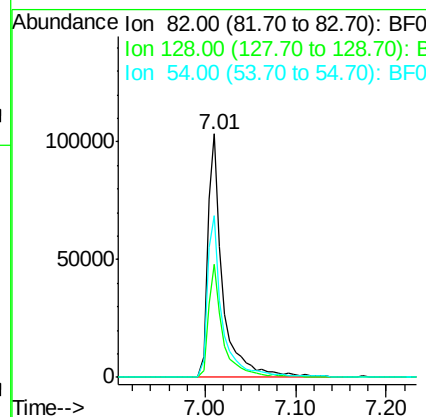
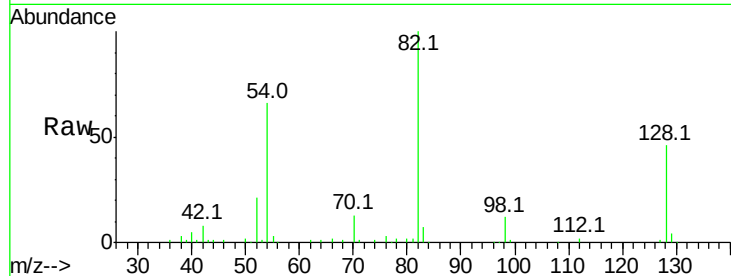
#23
 Nitrobenzene-d5
 Concen: 16.279 ng
 RT: 7.01 min Scan# 888
 Delta R.T. -0.06 min
 Lab File: BF097387.D
 Acq: 5 Aug 2017 6:25

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-SS2DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.4	34.0	51.0	
54	66.3	42.2	63.2	

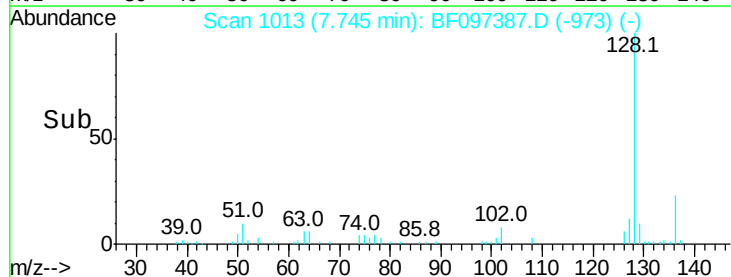
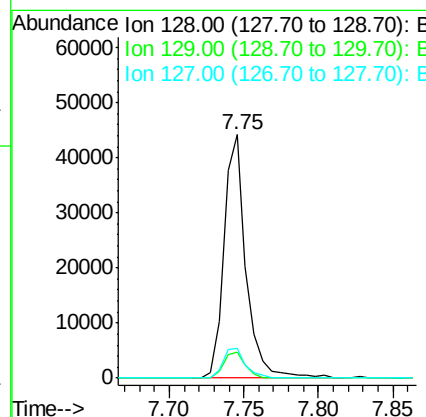
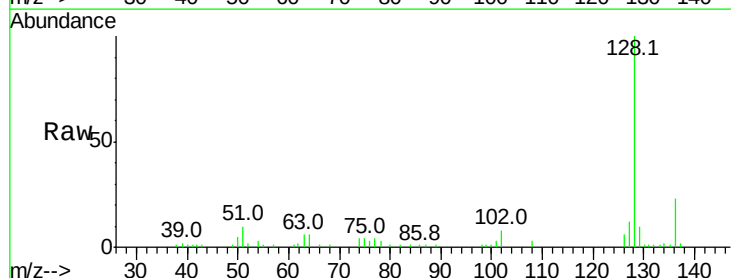
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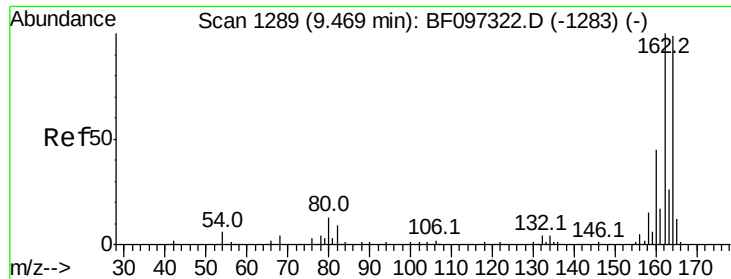
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#31
 Naphthalene
 Concen: 2.245 ng
 RT: 7.75 min Scan# 1013
 Delta R.T. -0.06 min
 Lab File: BF097387.D
 Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.5	9.0	13.6	
127	12.5	10.8	16.2	





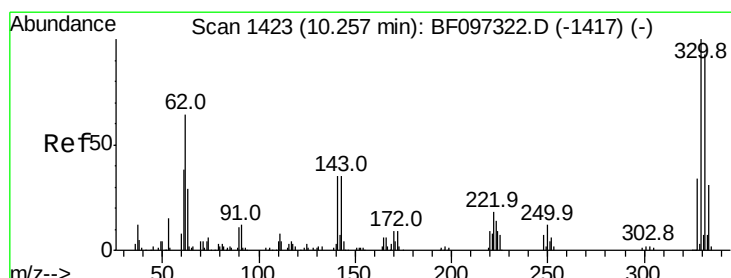
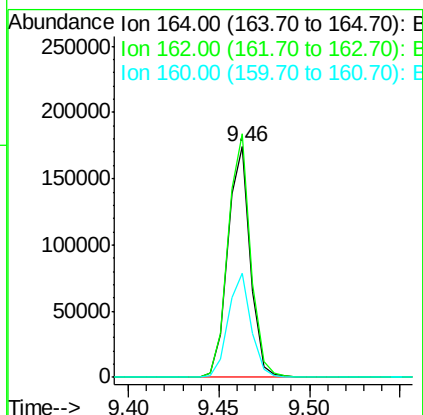
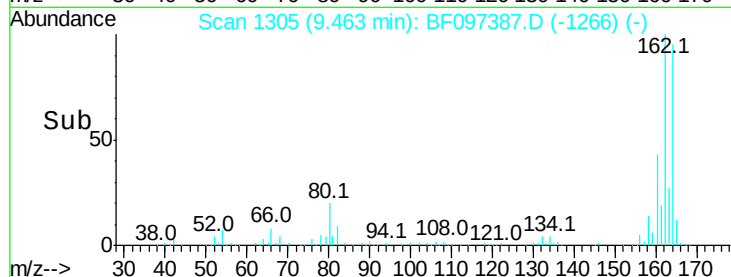
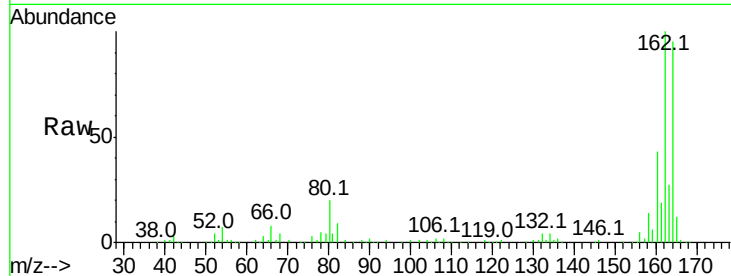
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.46 min Scan# 1305
Delta R.T. -0.07 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampleId :
TP-5-SS2DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	150559		
162	105.5	82.6	123.8	
160	45.1	36.2	54.2	

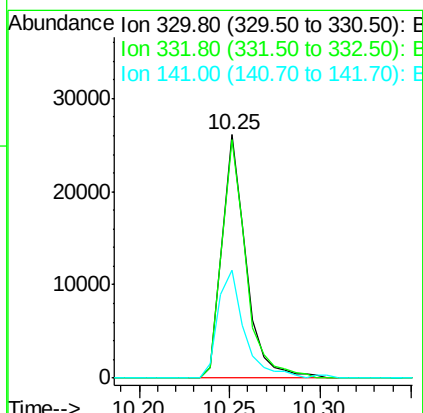
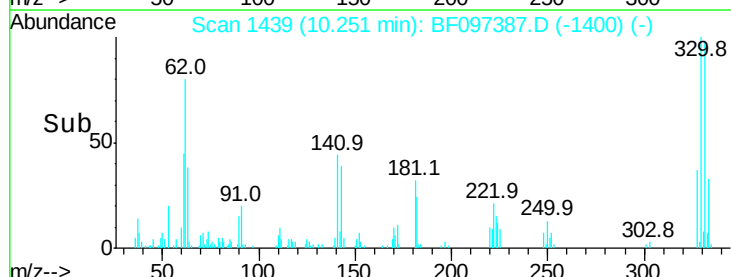
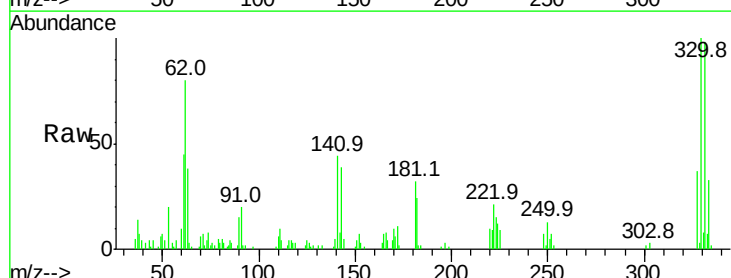
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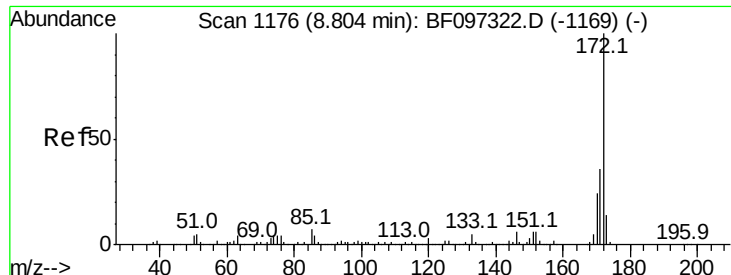
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#41
2,4,6-Tribromophenol
Concen: 20.281 ng
RT: 10.25 min Scan# 1439
Delta R.T. -0.07 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	24126		
332	98.7	76.6	115.0	
141	48.0	31.4	47.2	





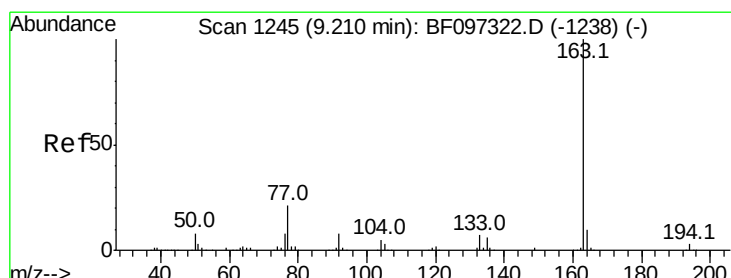
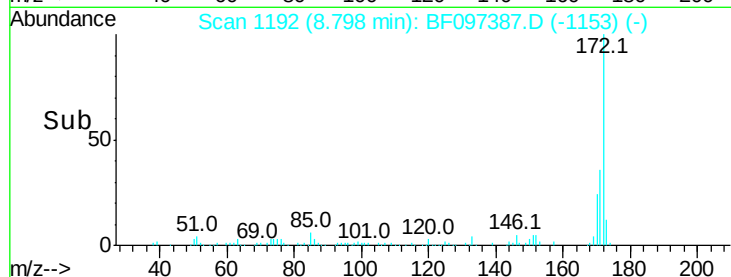
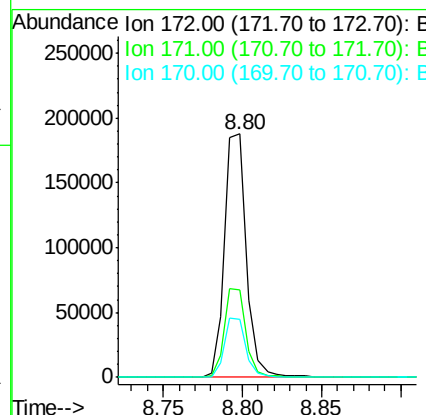
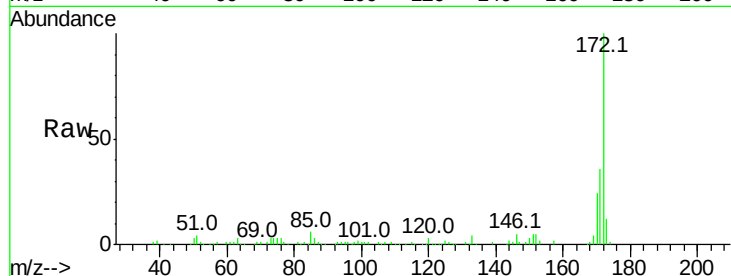
#44
2-Fluorobiphenyl
Concen: 20.170 ng
RT: 8.80 min Scan# 1192
Delta R.T. -0.07 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampleId :
TP-5-SS2DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	178941		
171	36.2		29.6	44.4
170	24.1		19.8	29.8

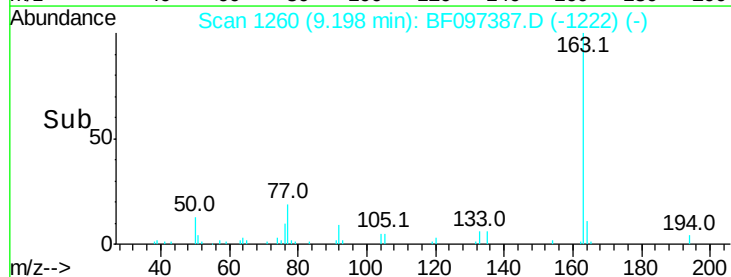
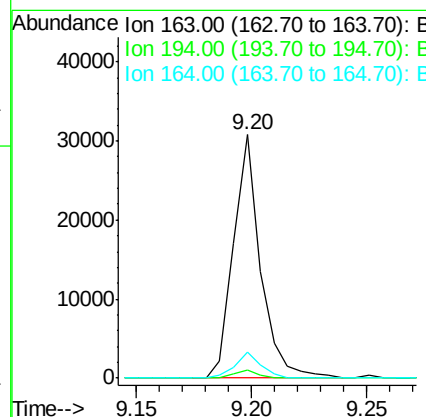
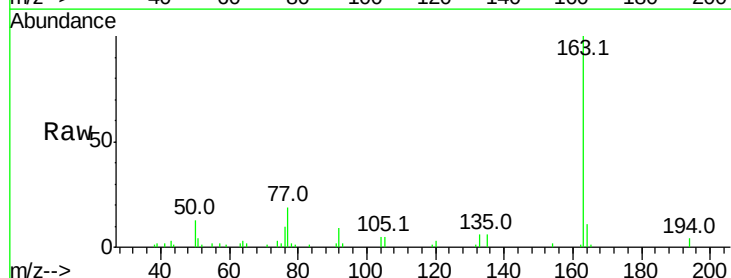
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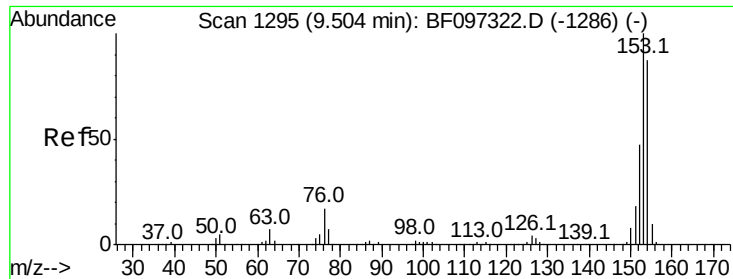
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#49
Dimethylphthalate
Concen: 2.204 ng
RT: 9.20 min Scan# 1260
Delta R.T. -0.08 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	25198		
194	3.5		2.6	4.0
164	10.6		8.4	12.6





#51

Acenaphthene

Concen: 3.265 ng

RT: 9.49 min Scan# 1310

Delta R.T. -0.08 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Instrument :

BNA_F

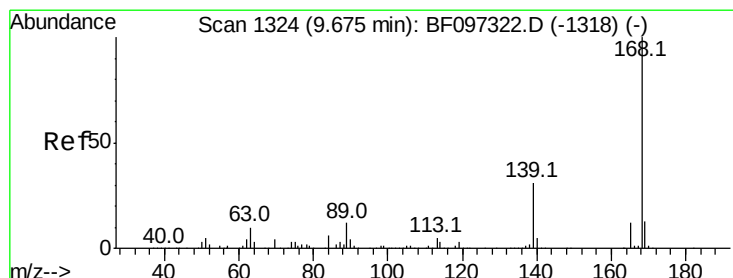
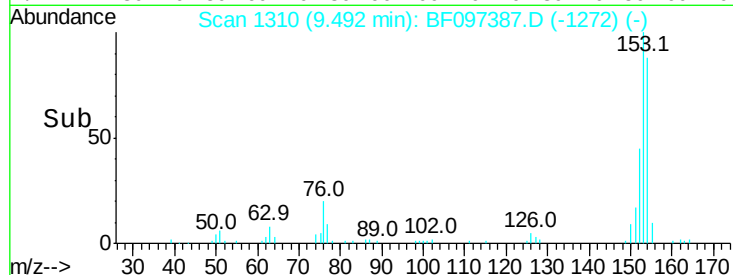
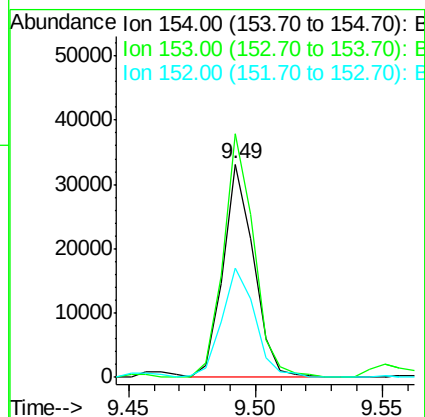
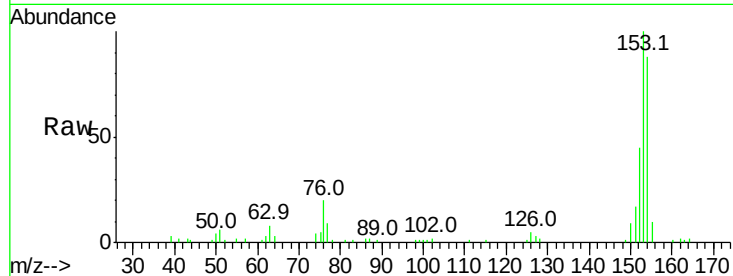
ClientSampleId :

TP-5-SS2DL

Tot Ion:	154	Resp:	27939
Ion Ratio	Lower	Upper	
154	100		
153	114.2	90.5	135.7
152	51.1	43.6	65.4

Manual Integrations
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#54

Dibenzofuran

Concen: 2.099 ng

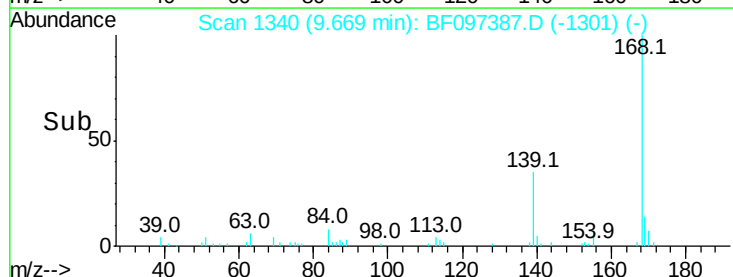
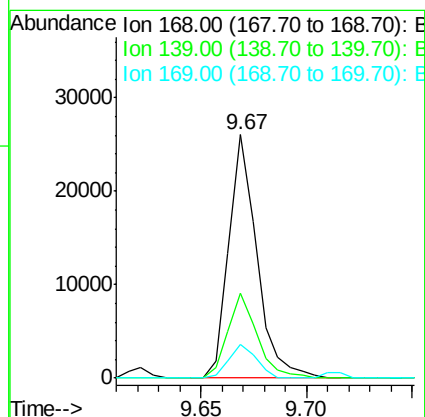
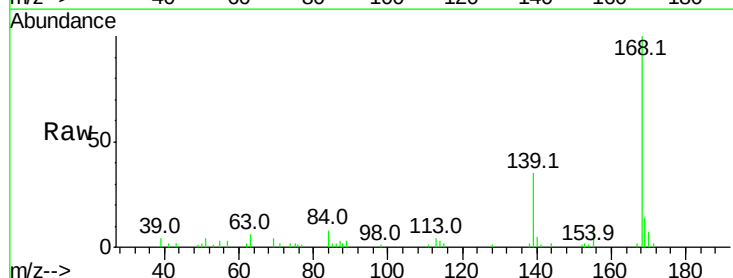
RT: 9.67 min Scan# 1340

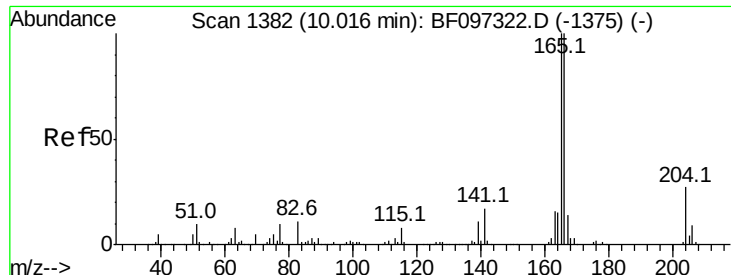
Delta R.T. -0.07 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Tgt Ion:	168	Resp:	23917
Ion Ratio	Lower	Upper	
168	100		
139	34.7	30.6	45.8
169	13.8	10.8	16.2





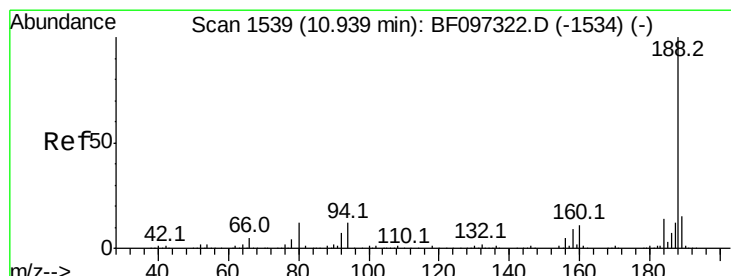
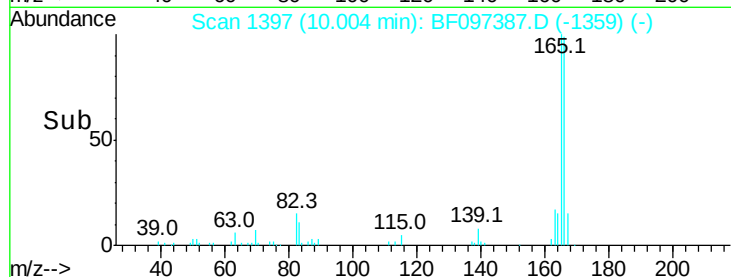
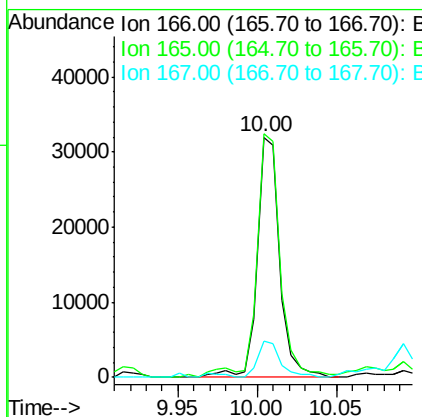
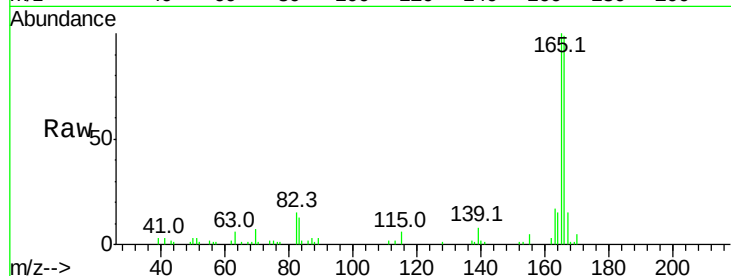
#57
Fluorene
 Concen: 3.681 ng
 RT: 10.00 min Scan# 1397
 Delta R.T. -0.08 min
 Lab File: BF097387.D
 Acq: 5 Aug 2017 6:25

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-SS2DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	101.5	78.8	118.2	
167	15.1	10.6	16.0	

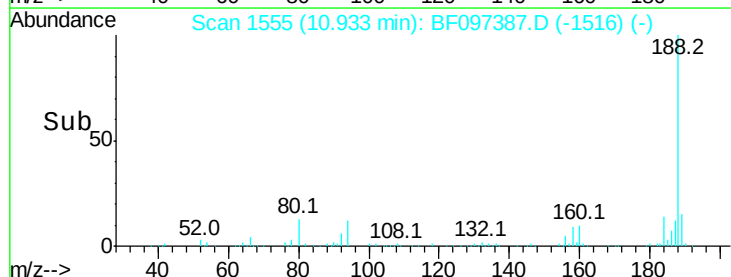
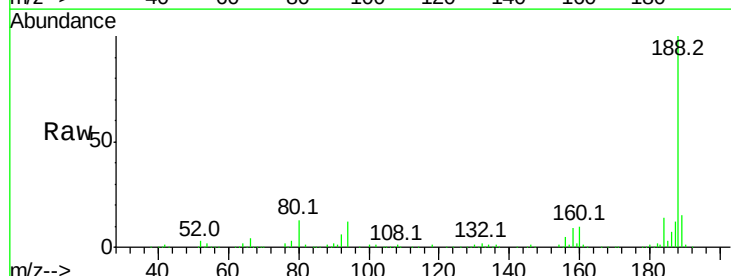
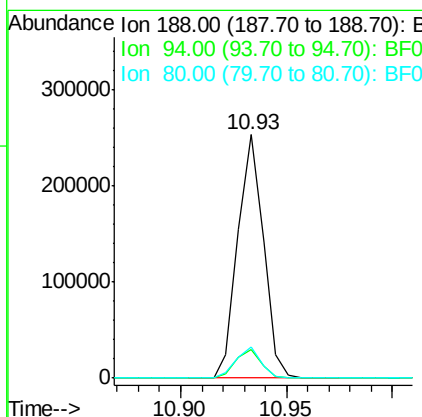
Manual Integrations
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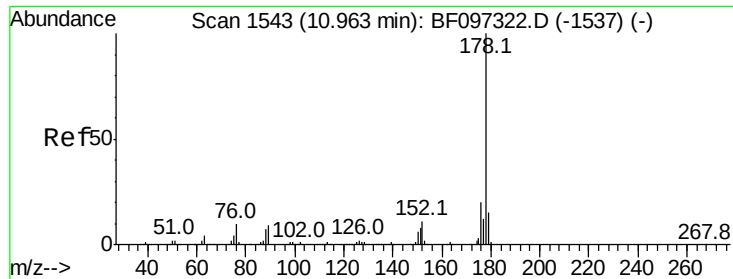
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.93 min Scan# 1555
 Delta R.T. -0.07 min
 Lab File: BF097387.D
 Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.8	9.4	14.2	
80	12.6	10.2	15.2	





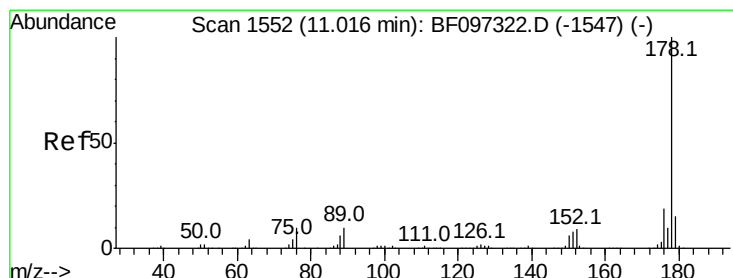
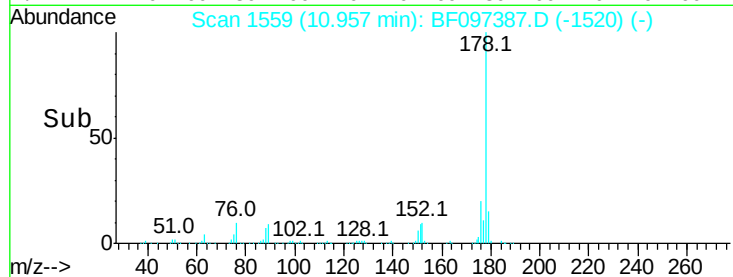
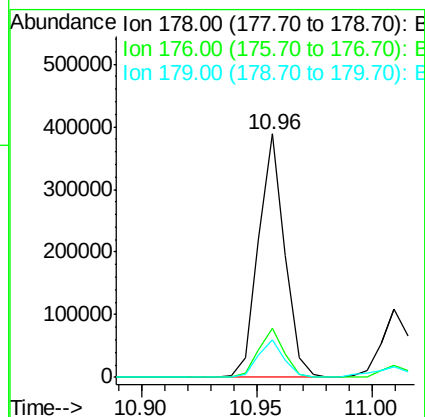
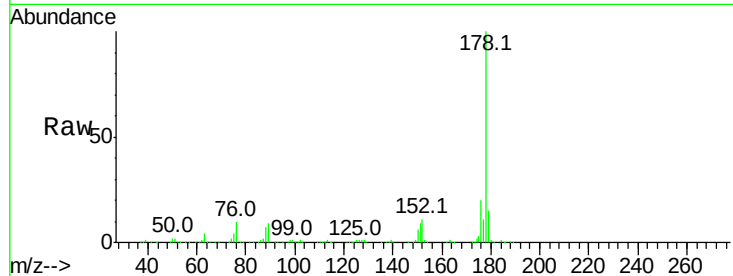
#70
Phenanthrene
Concen: 26.975 ng
RT: 10.96 min Scan# 1559
Delta R.T. -0.07 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampled :
TP-5-SS2DL

Tot Ion	Ratio	Resp	Lower	Upper
178	100	308813		
176	20.2		16.2	24.4
179	15.2		12.6	19.0

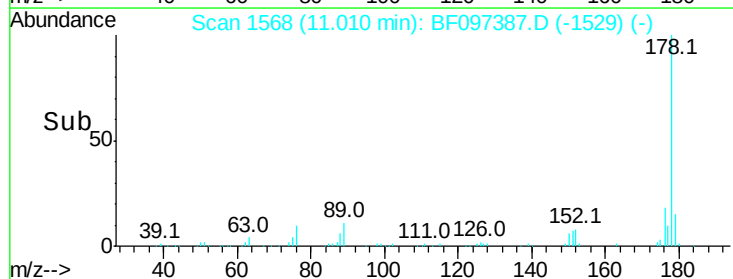
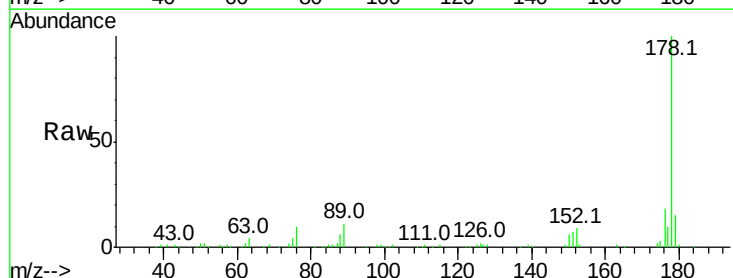
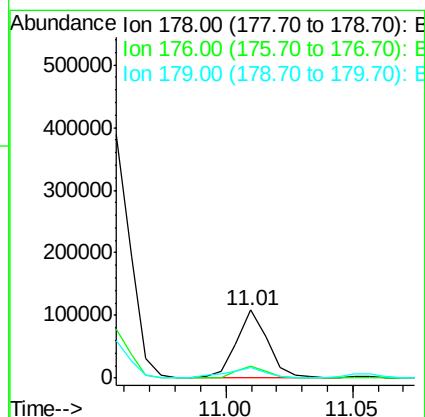
Manual Integrations
APPROVED

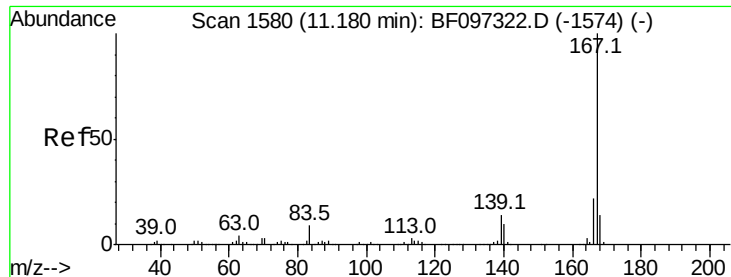
Sohil
8/7/2017 6:10:20 PM



#71
Anthracene
Concen: 7.820 ng
RT: 11.01 min Scan# 1568
Delta R.T. -0.07 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	91692		
176	18.3		15.8	23.8
179	15.3		12.7	19.1





#72

Carbazole

Concen: 3.502 ng

RT: 11.17 min Scan# 1596

Delta R.T. -0.06 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Instrument :

BNA_F

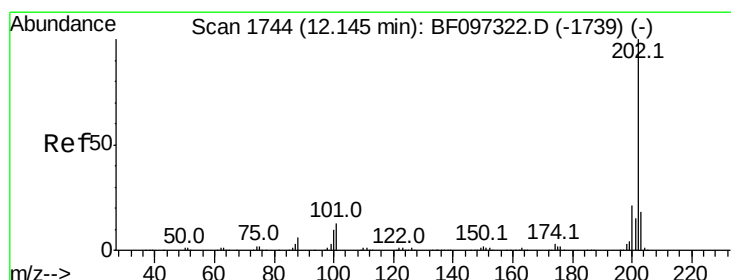
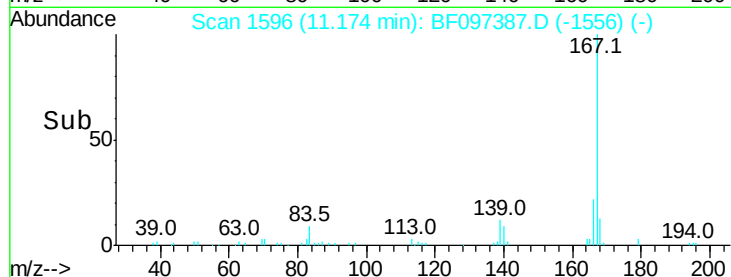
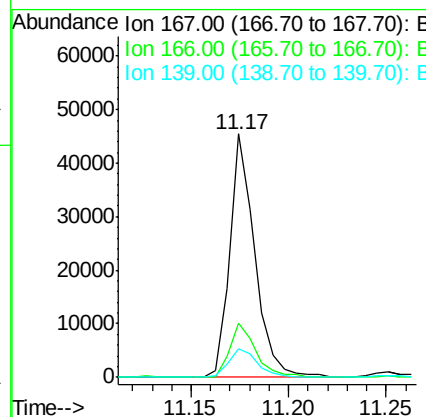
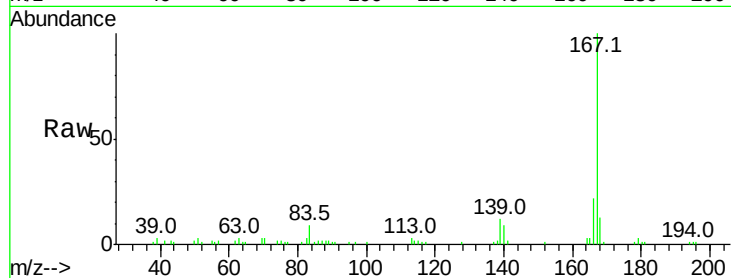
ClientSampleId :

TP-5-SS2DL

Tot Ion:	167	Resp:	40389
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	12.0	11.7	17.5

Manual Integrations
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8/7/2017 6:10:20 PM



#74

Fluoranthene

Concen: 42.464 ng

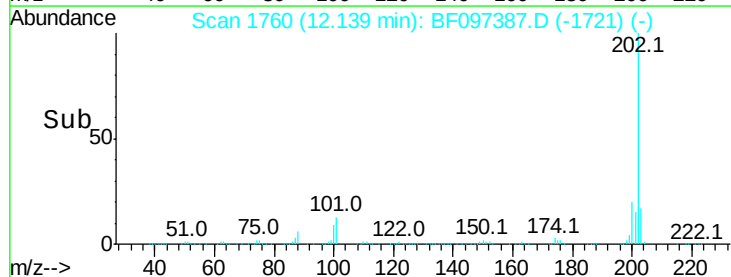
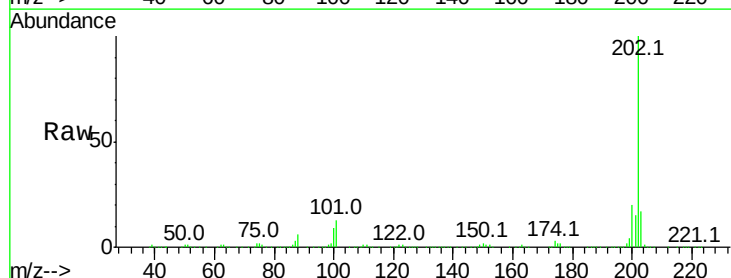
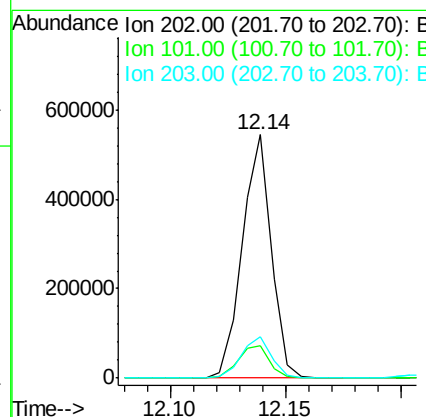
RT: 12.14 min Scan# 1760

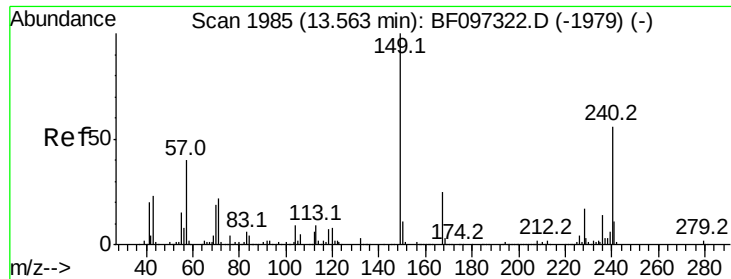
Delta R.T. -0.07 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Tgt Ion:	202	Resp:	476242
Ion Ratio	Lower	Upper	
202	100		
101	13.1	0.0	33.2
203	16.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.56 min Scan# 2001

Delta R.T. -0.07 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

Instrument :

BNA_F

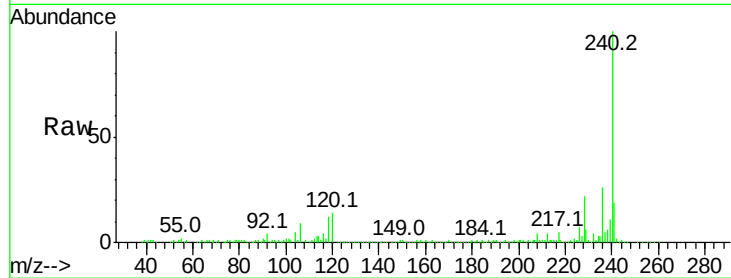
ClientSampleId :

TP-5-SS2DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	202550		
120	13.9	5.8	8.8#	
236	25.9	20.5	30.7	

Manual Integrations
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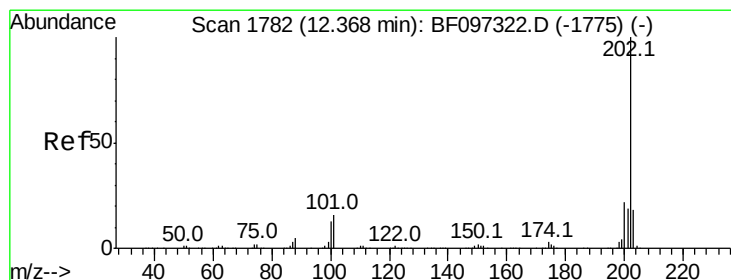
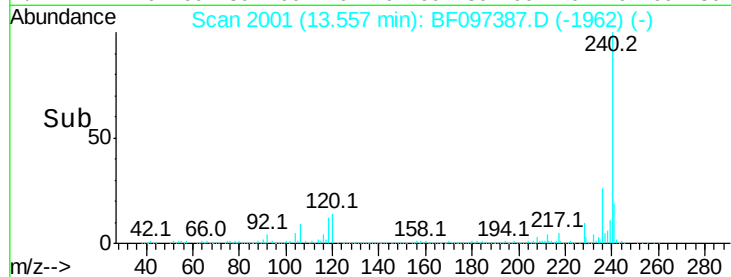
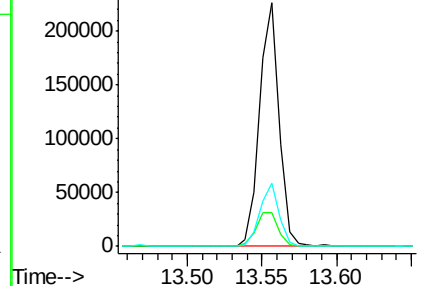
Sohil
8/7/2017 6:10:20 PM



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



#77

Pyrene

Concen: 25.777 ng

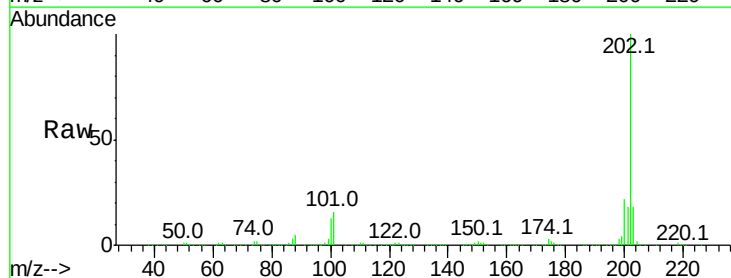
RT: 12.36 min Scan# 1798

Delta R.T. -0.07 min

Lab File: BF097387.D

Acq: 5 Aug 2017 6:25

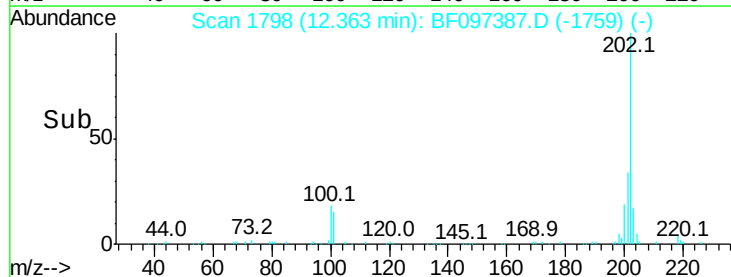
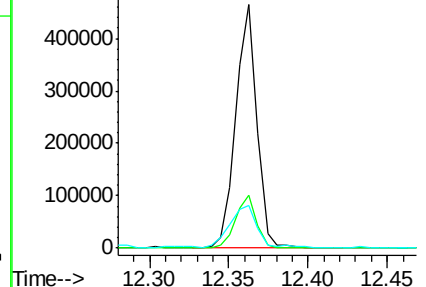
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	427445		
200	21.7	17.6	26.4	
203	17.8	14.4	21.6	

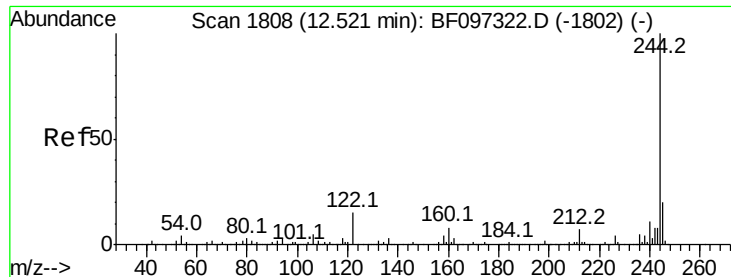


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





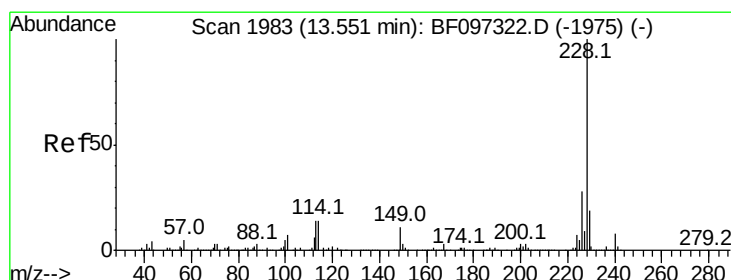
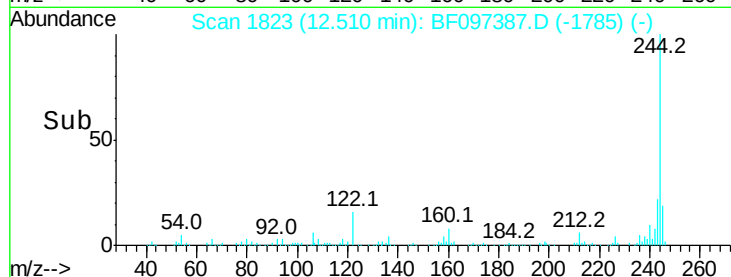
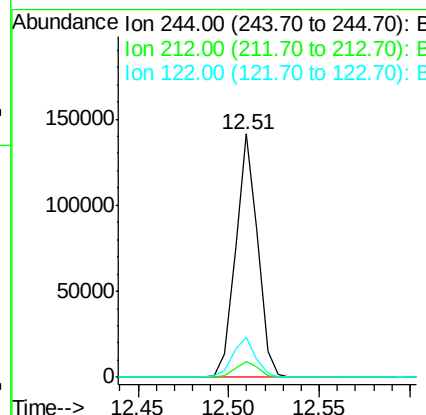
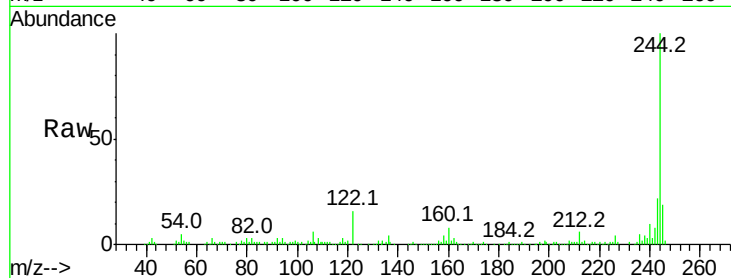
#78
 Terphenyl-d14
 Concen: 11.973 ng
 RT: 12.51 min Scan# 1823
 Delta R.T. -0.08 min
 Lab File: BF097387.D
 Acq: 5 Aug 2017 6:25

Instrument :
 BNA_F
 ClientSampleId :
 TP-5-SS2DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.0	9.0
122	16.4	10.3	15.5

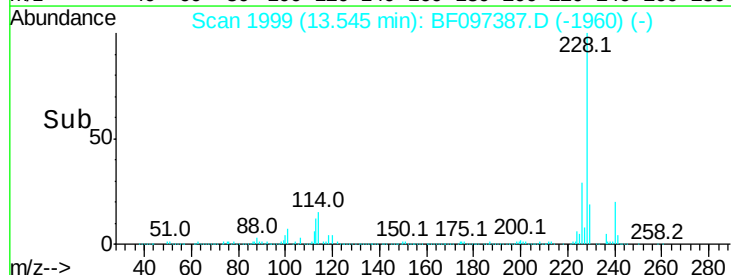
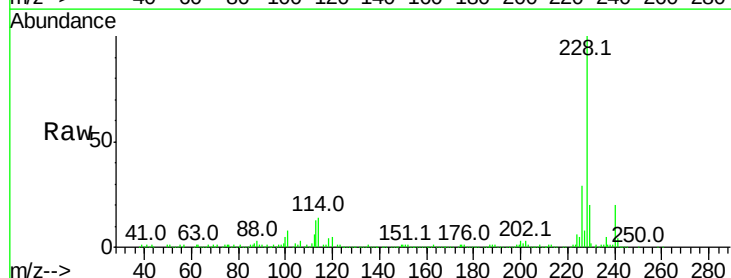
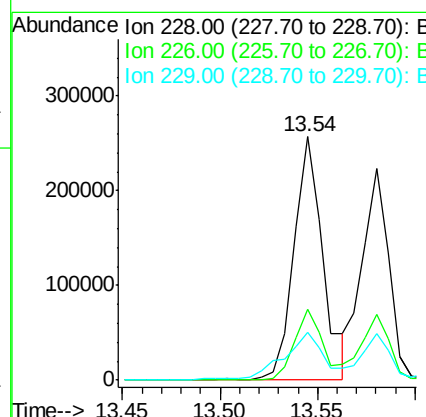
Manual Integrations
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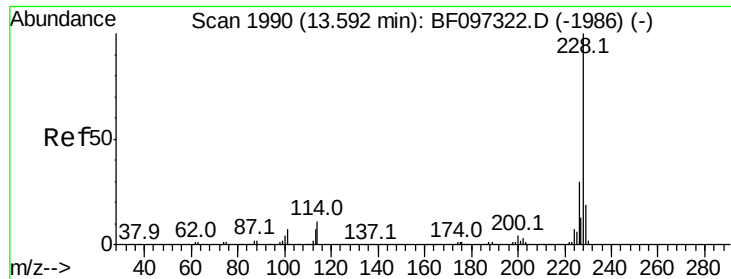
Sohil
 8/7/2017 6:10:20 PM



#80
 Benzo(a)anthracene
 Concen: 20.103 ng
 RT: 13.54 min Scan# 1999
 Delta R.T. -0.07 min
 Lab File: BF097387.D
 Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	19.9	16.3	24.5





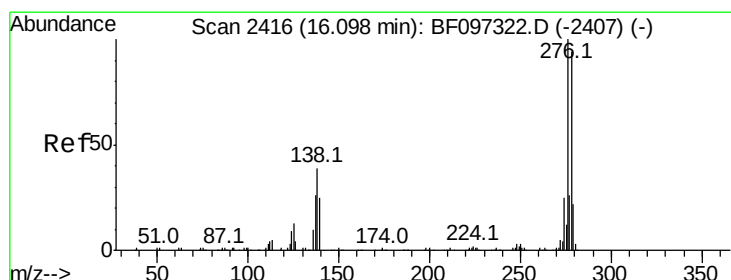
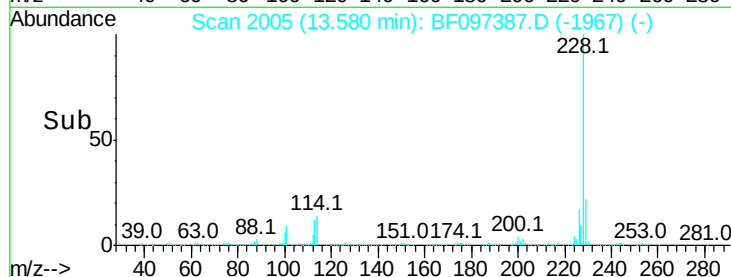
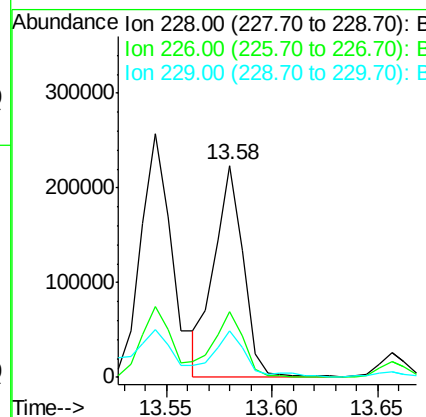
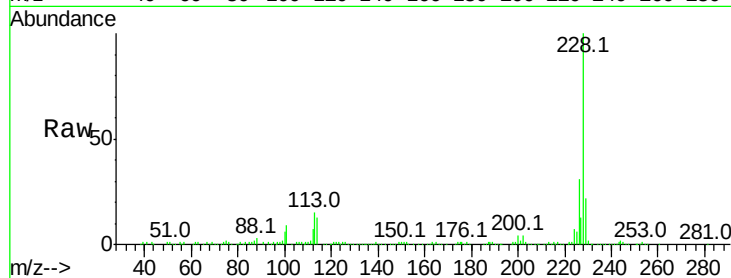
#82
Chrysene
Concen: 16.634 ng
RT: 13.58 min Scan# 2005
Delta R.T. -0.08 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampleId :
TP-5-SS2DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	21.9	15.8	23.6

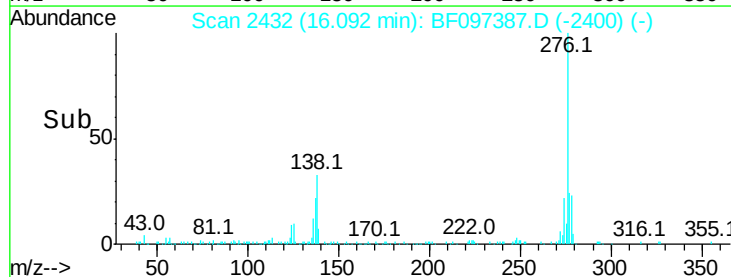
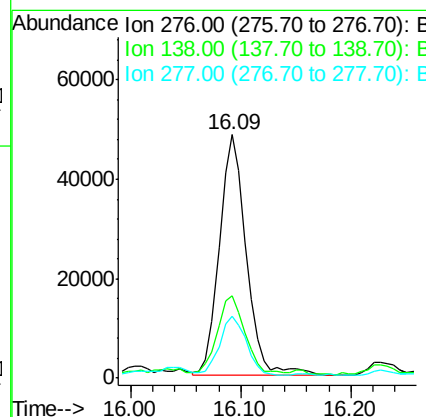
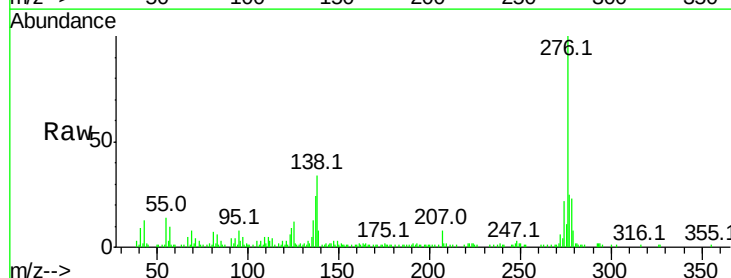
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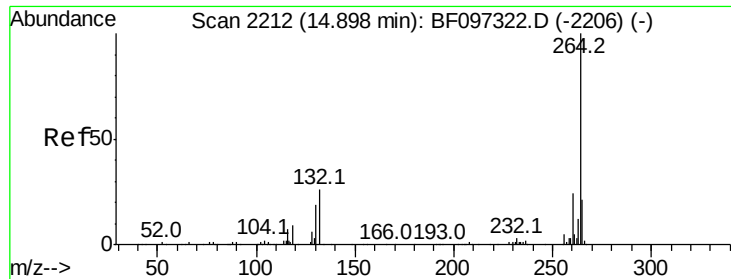
Sohil
8/7/2017 6:10:20 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 7.466 ng
RT: 16.09 min Scan# 2432
Delta R.T. -0.11 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Lower	Upper
276	100		
138	34.5	27.8	41.6
277	26.2	20.2	30.4





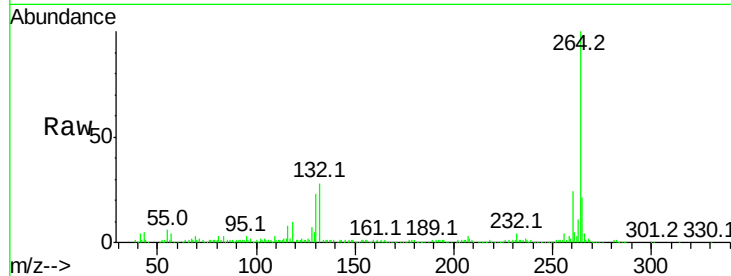
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.89 min Scan# 2228
Delta R.T. -0.08 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampleId :
TP-5-SS2DL

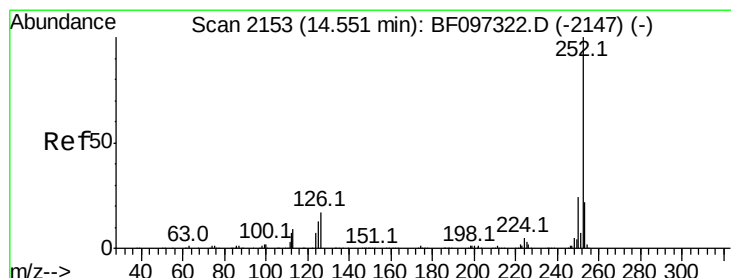
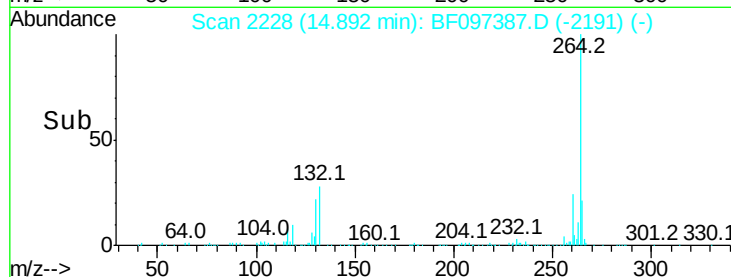
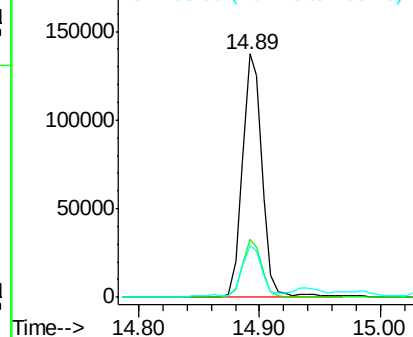
Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.1	19.5	29.3	
265	20.9	17.2	25.8	

Manual Integrations
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8/7/2017 6:10:20 PM



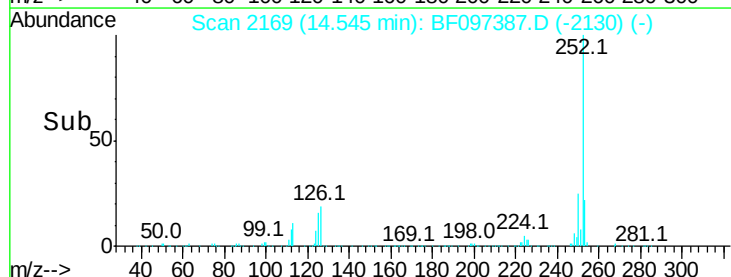
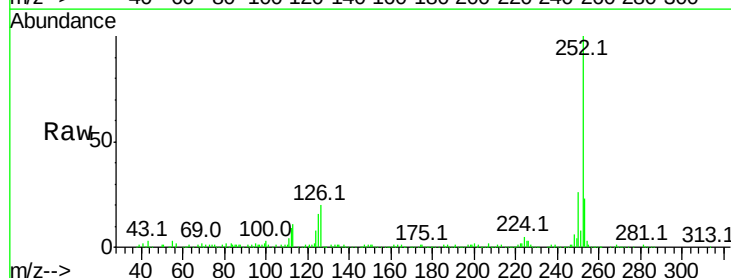
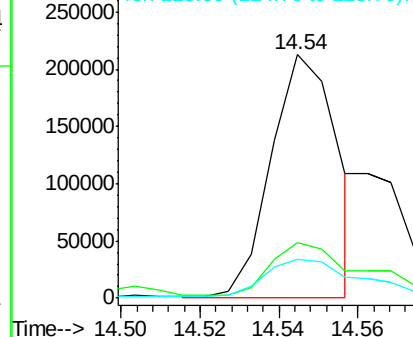
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

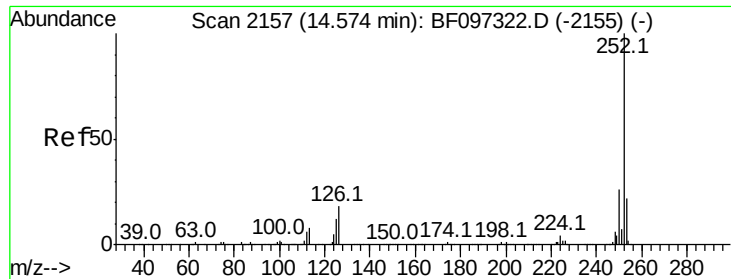


#87
Benzo(b)fluoranthene
Concen: 25.981 ng m
RT: 14.54 min Scan# 2169
Delta R.T. -0.07 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.8	18.1	27.1	
125	16.0	9.8	14.8#	

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





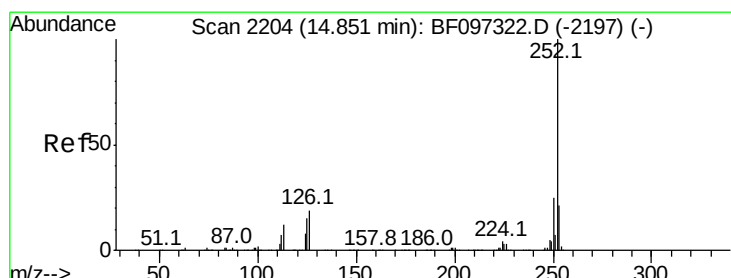
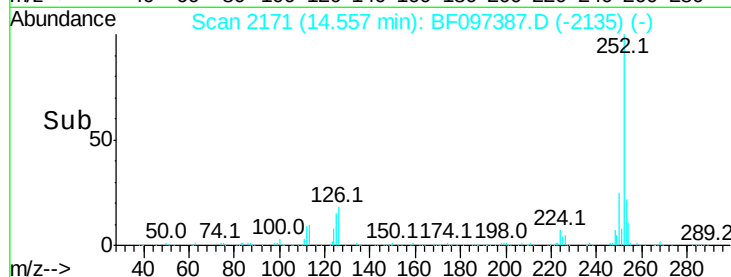
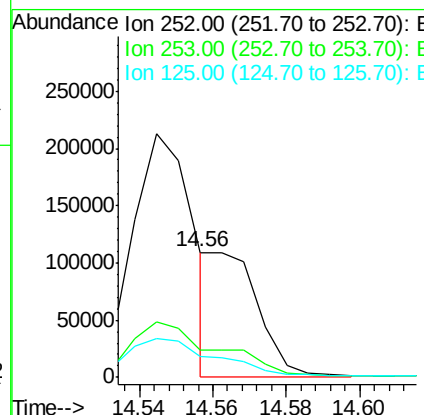
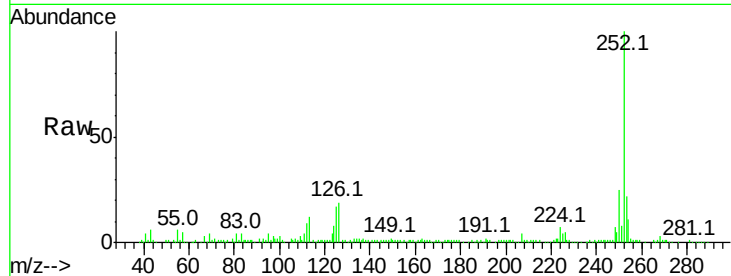
#88
Benzo(k)fluoranthene
Concen: 10.743 ng m
RT: 14.56 min Scan# 2171
Delta R.T. -0.09 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampled :
TP-5-SS2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.4	27.6
125	16.5	13.1	19.7

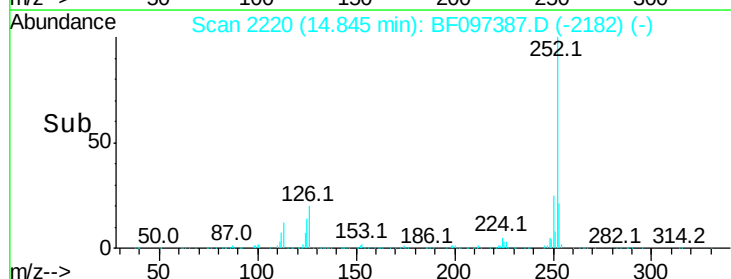
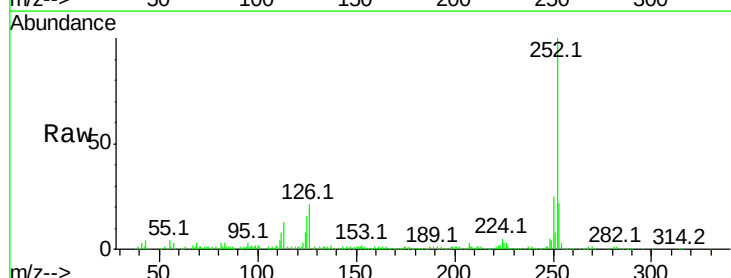
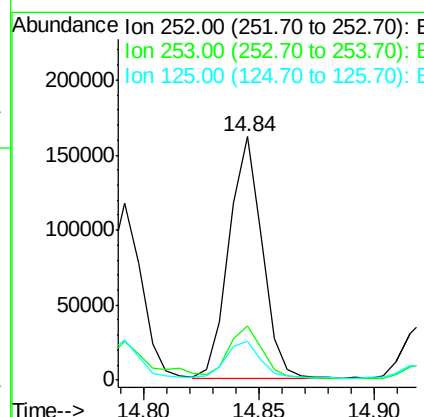
Manual Integrations
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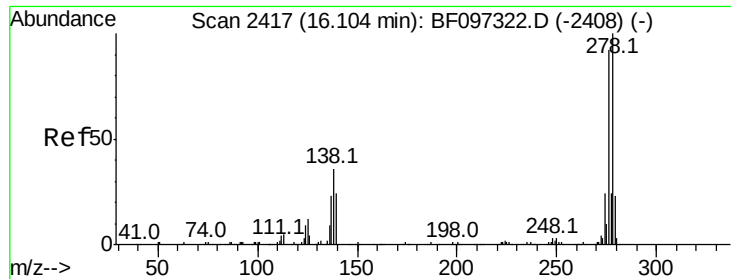
Sohil
8/7/2017 6:10:20 PM



#89
Benzo(a)pyrene
Concen: 18.683 ng
RT: 14.84 min Scan# 2220
Delta R.T. -0.08 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	15.8	11.0	16.4





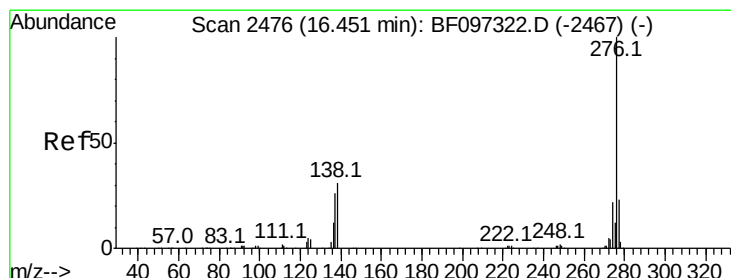
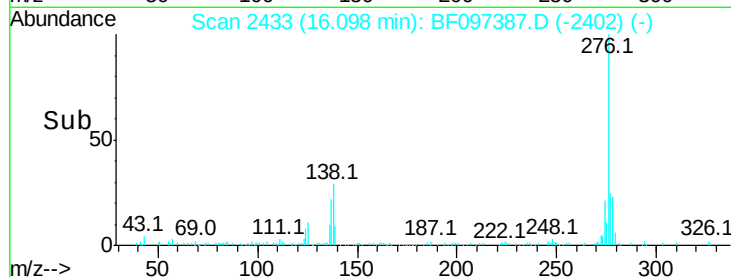
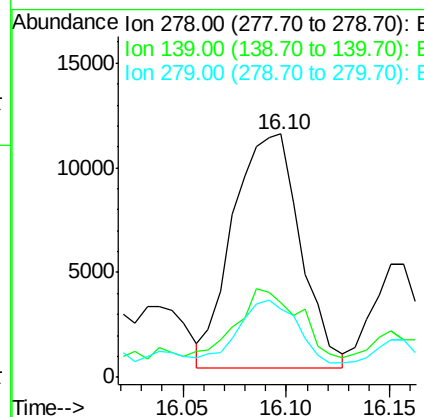
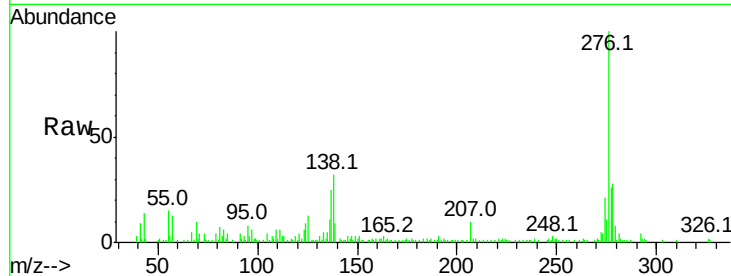
#90
Dibenzo(a,h)anthracene
Concen: 3.564 ng
RT: 16.10 min Scan# 2433
Delta R.T. -0.12 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Instrument :
BNA_F
ClientSampled :
TP-5-SS2DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	30.8	16.6	24.8#
279	28.1	19.3	28.9

Manual Integrations
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Sohil
8/7/2017 6:10:20 PM



#91
Benzo(g,h,i)perylene
Concen: 9.424 ng
RT: 16.45 min Scan# 2493
Delta R.T. -0.12 min
Lab File: BF097387.D
Acq: 5 Aug 2017 6:25

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.6	28.0
138	36.1	25.4	38.0

