

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121416\
 Data File : BF091585.D
 Acq On : 14 Dec 2016 14:51
 Operator : UM/SJ
 Sample : H5961-01DL 5X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GWDL

Manual Integrations
 APPROVED

sohil
 12/15/2016 5:39:42 PM

Quant Time: Dec 15 14:07:13 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 09 19:00:21 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	265408	20.00	ng	-0.02
21) Naphthalene-d8	8.09	136	1051144	20.00	ng	-0.01
38) Acenaphthene-d10	9.84	164	481695	20.00	ng	-0.02
63) Phenanthrene-d10	11.32	188	681005	20.00	ng	-0.01
75) Chrysene-d12	13.95	240	531708	20.00	ng	-0.01
86) Perylene-d12	15.37	264	570274	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	173092	10.99	ng	-0.02
7) Phenol-d6	6.43	99	147663	7.52	ng	-0.02
23) Nitrobenzene-d5	7.36	82	286254	15.20	ng	-0.02
41) 2,4,6-Tribromophenol	10.62	330	94685	23.67	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	536451	19.24	ng	-0.02
78) Terphenyl-d14	12.91	244	275196	11.74	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	2.36	88	25634	3.08	ng	# 80
6) Aniline	6.45	93	55868	2.17	ng	# 92
10) Phenol	6.45	94	83678	3.64	ng	85
17) 2-Methylphenol	7.06	107	57456m	3.91	ng	
20) 3+4-Methylphenols	7.22	107	224826	11.85	ng	# 88
27) 2,4-Dimethylphenol	7.76	122	222715	14.44	ng	90
31) Naphthalene	8.12	128	7283540	148.93	ng	94
37) 2-Methylnaphthalene	8.80	142	277025	8.75	ng	97
45) 1,1'-Biphenyl	9.26	154	436312	12.51	ng	96
51) Acenaphthene	9.87	154	820049	28.67	ng	97
54) Dibenzofuran	10.04	168	792455	22.39	ng	100
57) Fluorene	10.38	166	531404	18.03	ng	98
70) Phenanthrene	11.34	178	845473	25.07	ng	100
71) Anthracene	11.40	178	98092	2.70	ng	99
72) Carbazole	11.55	167	390345	12.24	ng	98
74) Fluoranthene	12.53	202	79099	2.24	ng	91

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

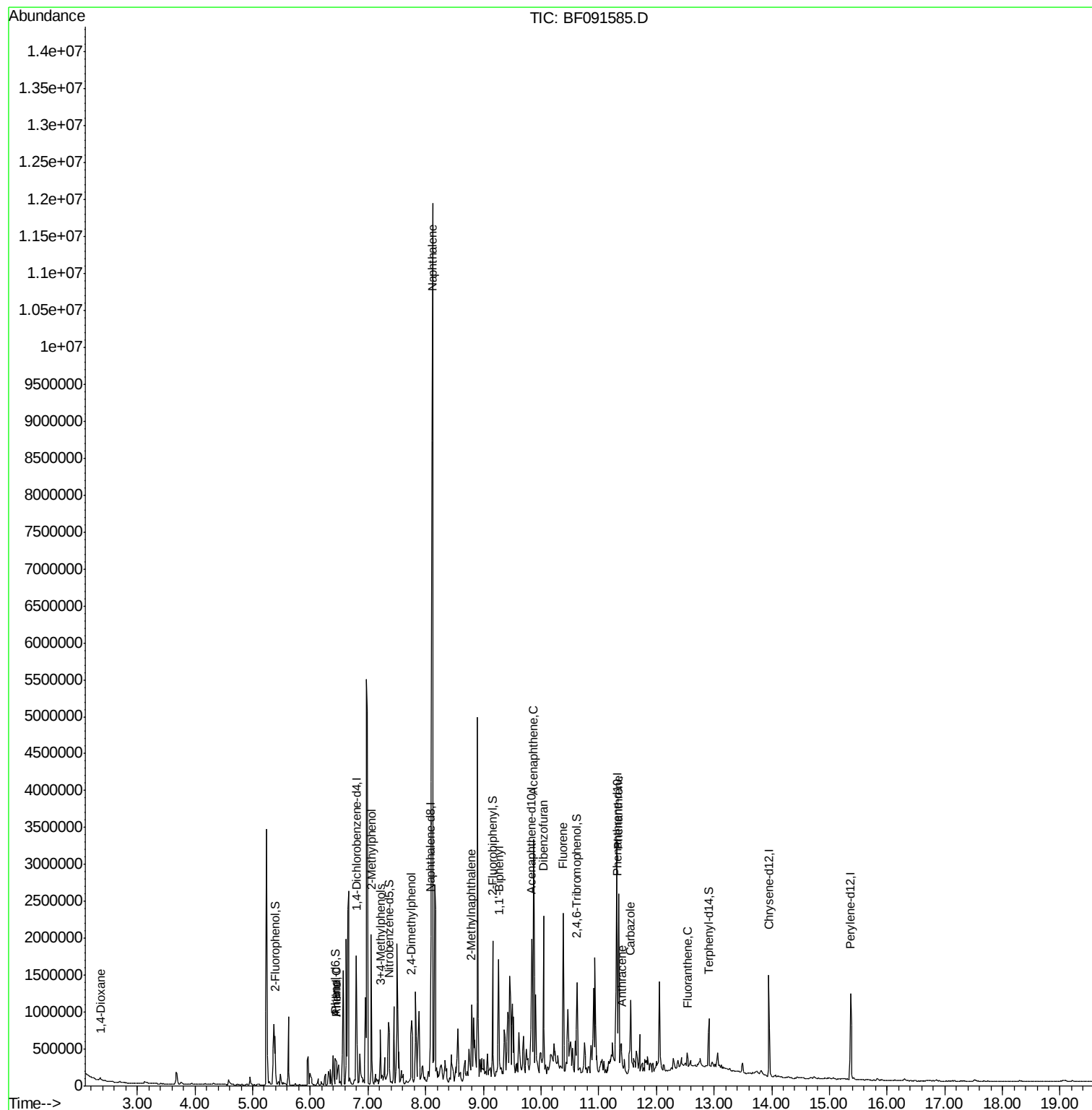
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121416\
Data File : BF091585.D
Acq On : 14 Dec 2016 14:51
Operator : UM/SJ
Sample : H5961-01DL 5X
Misc :
ALS Vial : 38 Sample Multiplier: 1

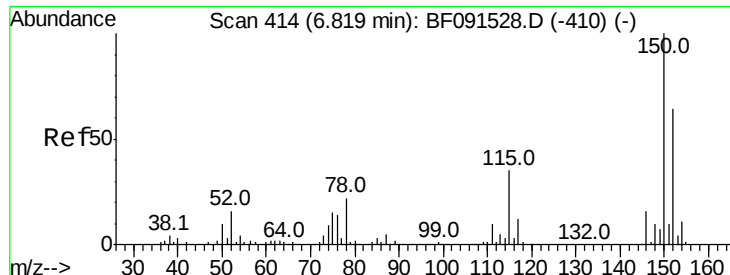
Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GWDL

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM

Quant Time: Dec 15 14:07:13 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 09 19:00:21 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion:152 Resp: 265408

Ion Ratio Lower Upper

152 100

150 156.3 122.5 183.7

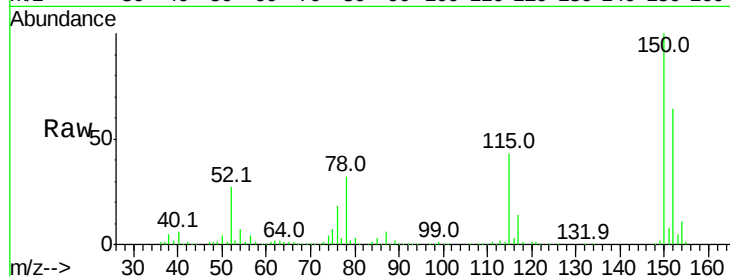
115 67.4 51.8 77.8

Manual Integrations

APPROVED

sohil

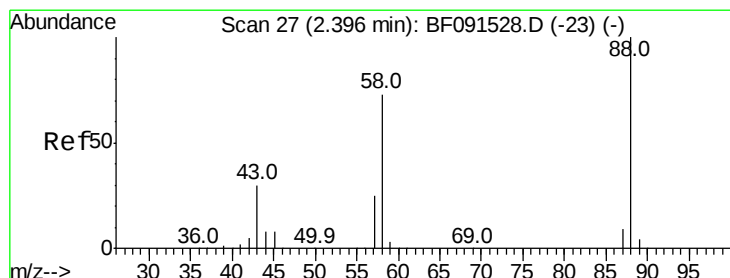
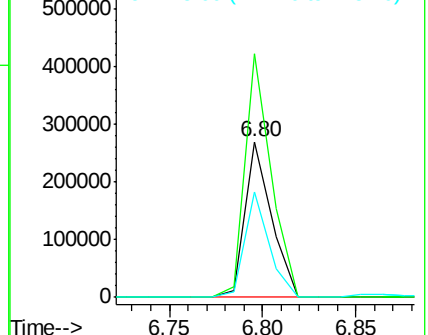
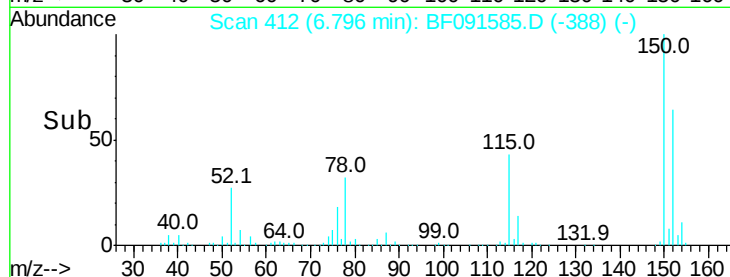
12/15/2016 5:39:42 PM



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



#2

1,4-Dioxane

Concen: 3.08 ng

RT: 2.36 min Scan# 24

Delta R.T. -0.03 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

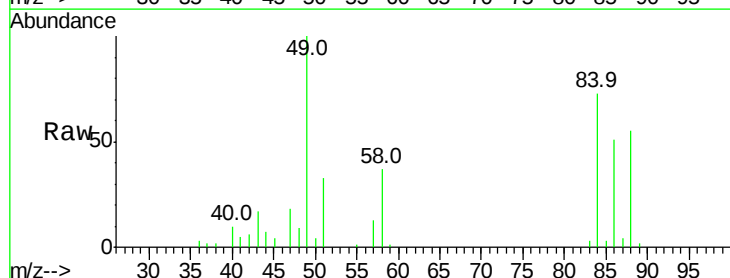
Tgt Ion: 88 Resp: 25634

Ion Ratio Lower Upper

88 100

58 67.2 70.3 105.5#

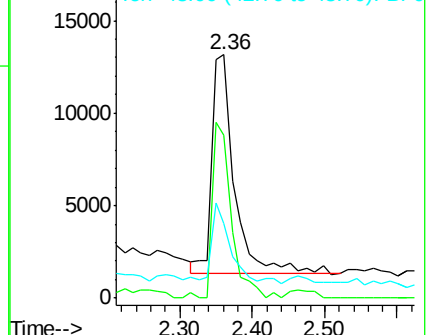
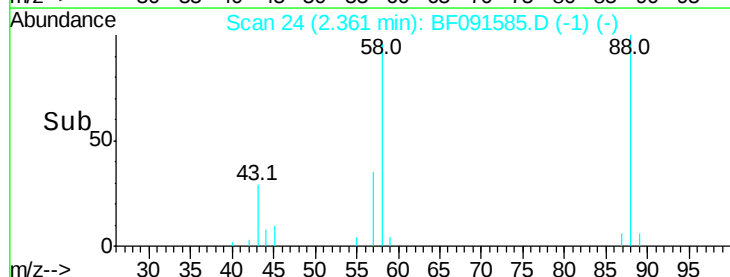
43 29.6 31.3 46.9#

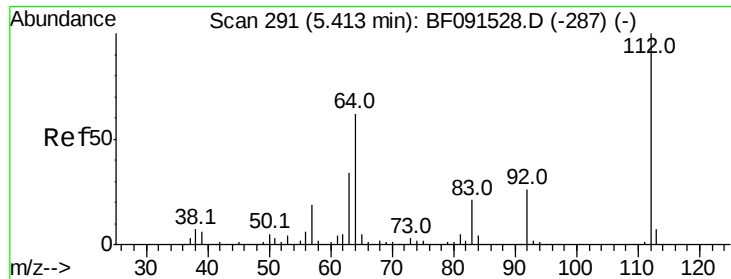


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 10.99 ng

RT: 5.39 min Scan# 289

Delta R.T. -0.02 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

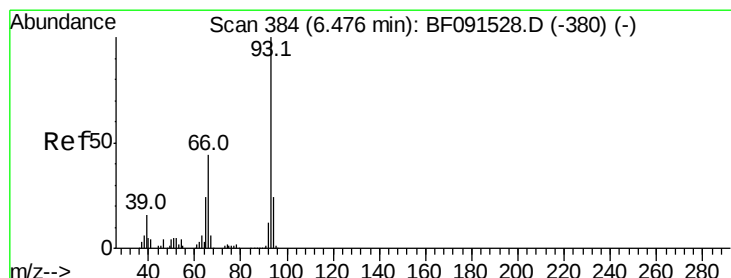
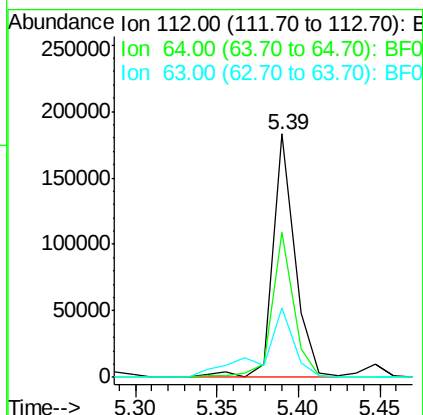
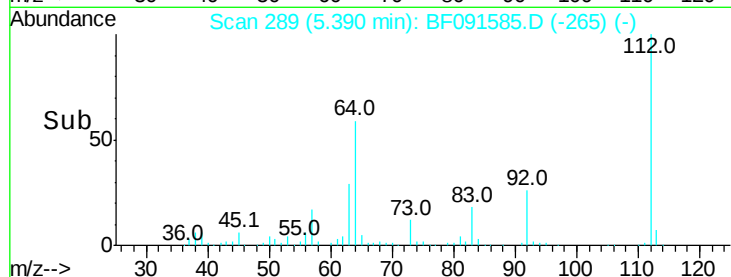
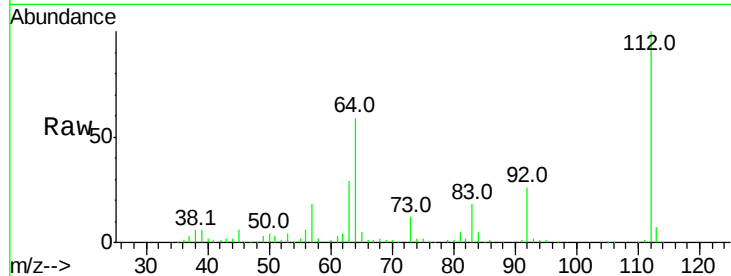
ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion	Ratio	Resp Lower	Upper
112	100		
64	59.4	61.5	92.3#
63	28.6	33.3	49.9#

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



#6

Aniline

Concen: 2.17 ng

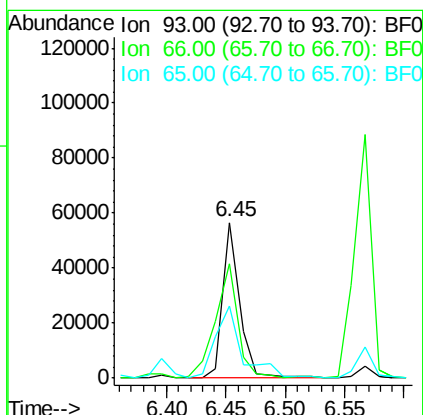
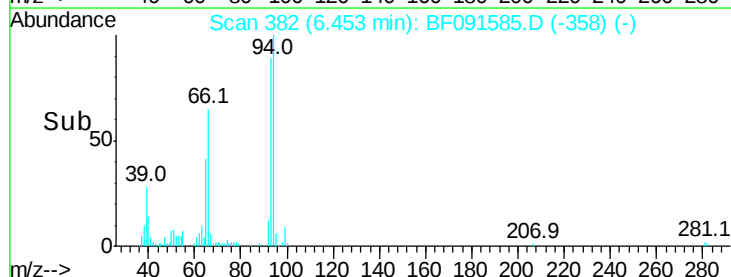
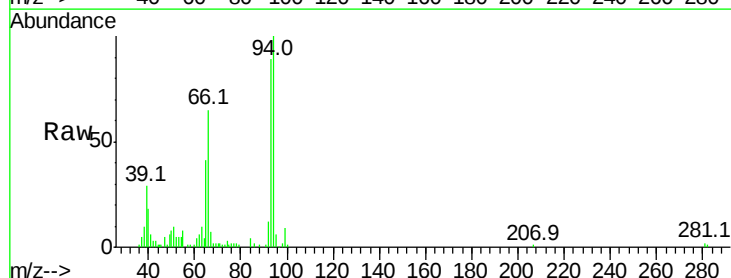
RT: 6.45 min Scan# 382

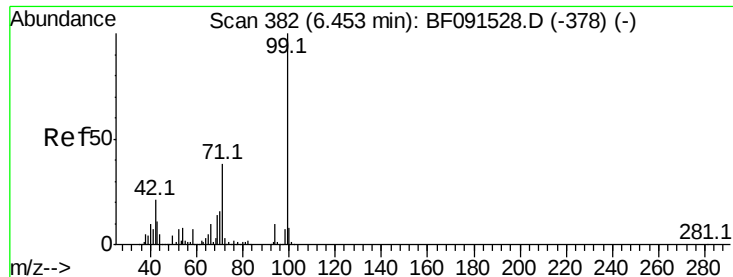
Delta R.T. -0.02 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Resp Lower	Upper
93	100		
66	73.4	55.8	83.6
65	46.3	29.9	44.9#





#7

Phenol-d6

Concen: 7.52 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.02 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

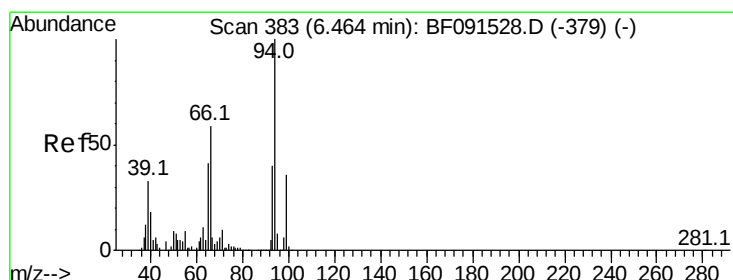
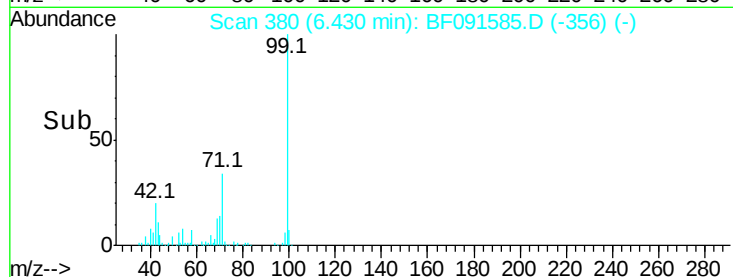
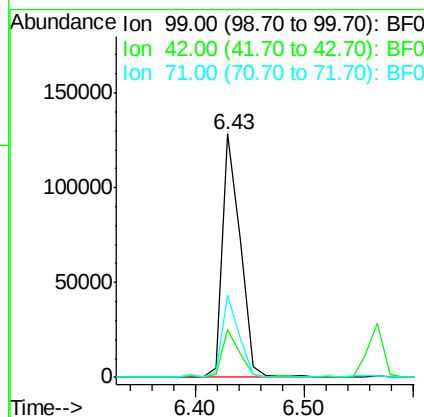
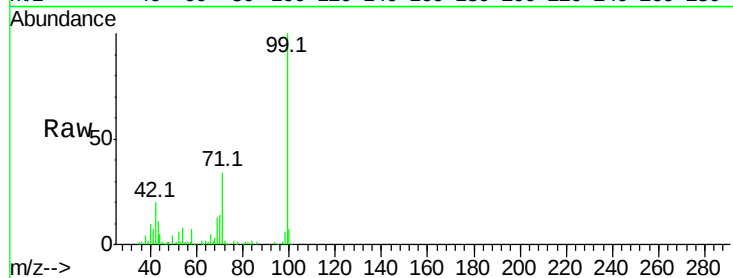
ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion:	99	Resp:	147663
Ion Ratio	Lower	Upper	
99	100		
42	19.8	20.6	31.0#
71	33.8	29.9	44.9

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



#10

Phenol

Concen: 3.64 ng

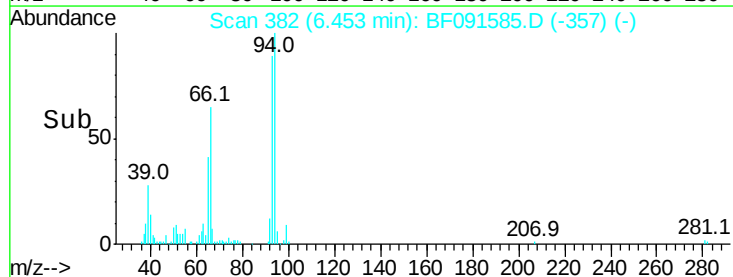
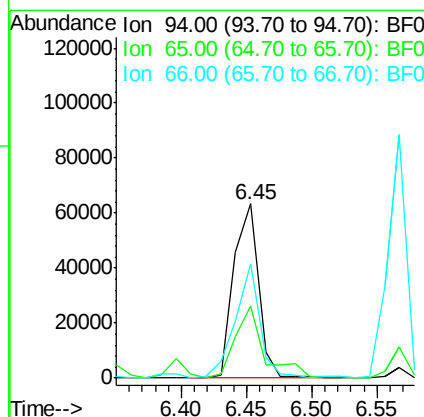
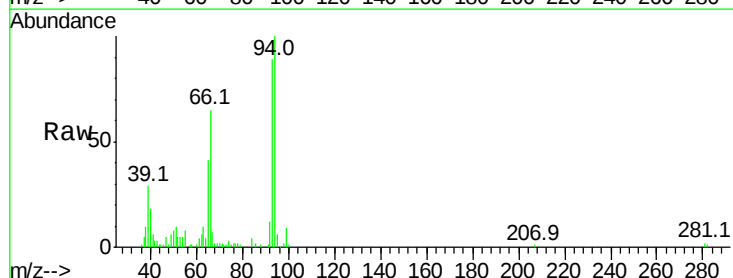
RT: 6.45 min Scan# 382

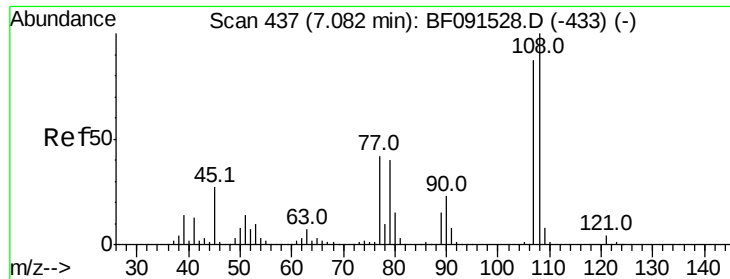
Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Tgt Ion:	94	Resp:	83678
Ion Ratio	Lower	Upper	
94	100		
65	41.3	16.9	56.9
66	65.4	30.6	70.6





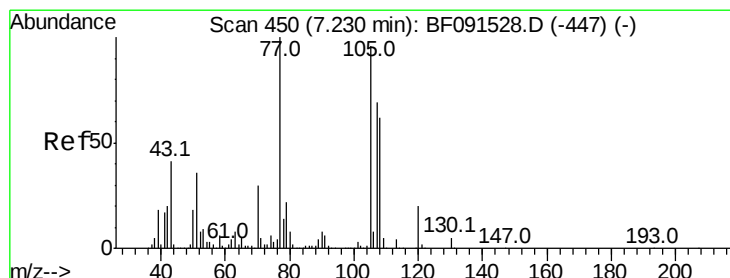
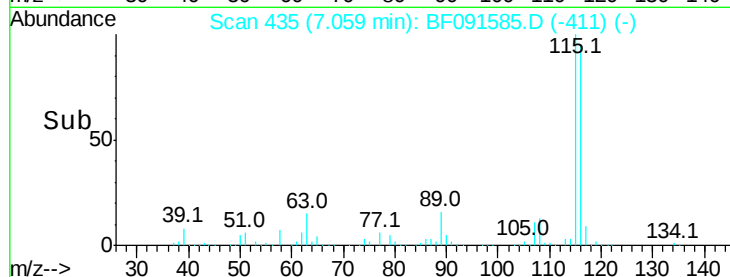
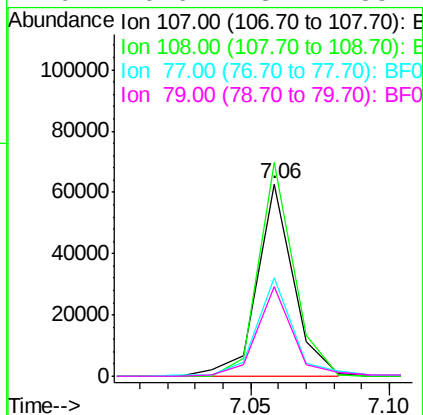
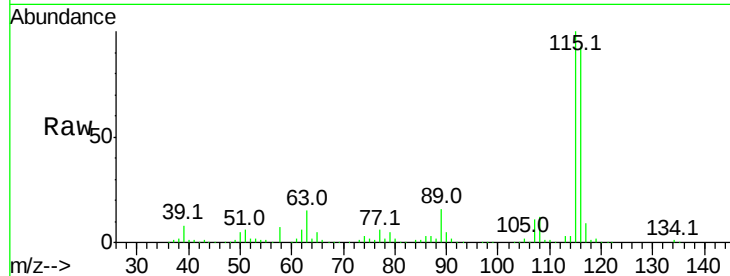
#17
2-Methylphenol
Concen: 3.91 ng/ml
RT: 7.06 min Scan# 435
Delta R.T. -0.02 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GWDL

Tot Ion	Ratio	Lower	Upper
107	100		
108	111.2	67.7	101.5#
77	51.3	40.7	61.1
79	46.6	23.4	35.2#

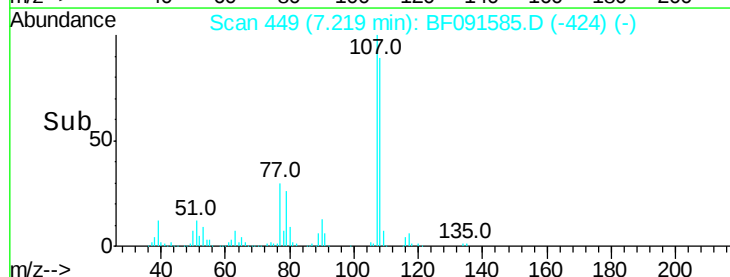
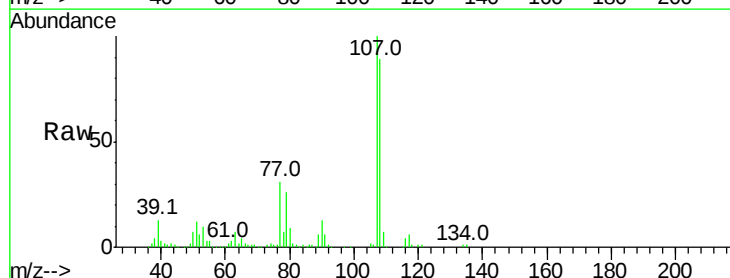
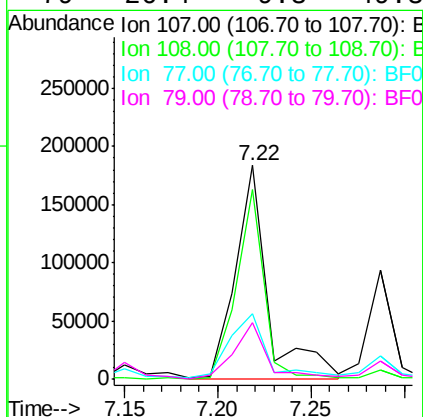
Manual Integrations
APPROVED

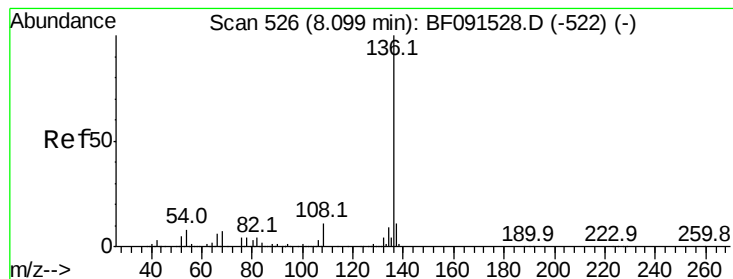
sohil
12/15/2016 5:39:42 PM



#20
3+4-Methylphenols
Concen: 11.85 ng/ml
RT: 7.22 min Scan# 449
Delta R.T. -0.01 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Lower	Upper
107	100		
108	89.0	64.6	104.6
77	30.7	30.9	70.9#
79	26.4	9.3	49.3





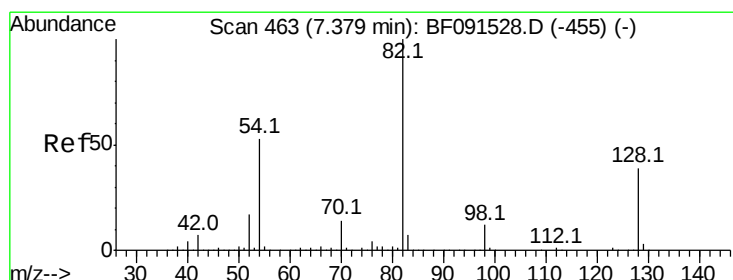
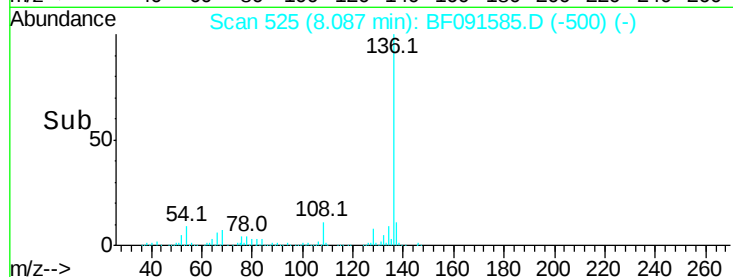
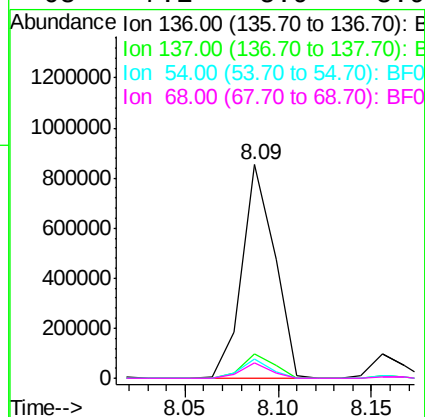
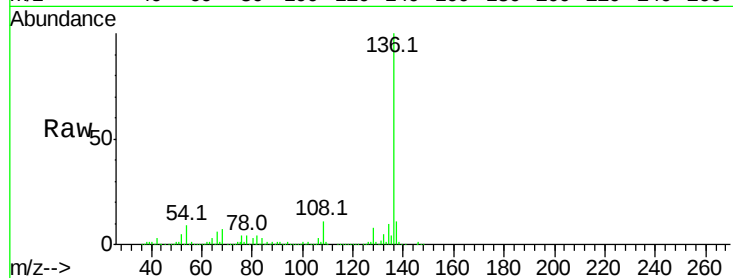
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.01 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GWDL

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	9.0	9.1	13.7#
68	7.1	5.9	8.9

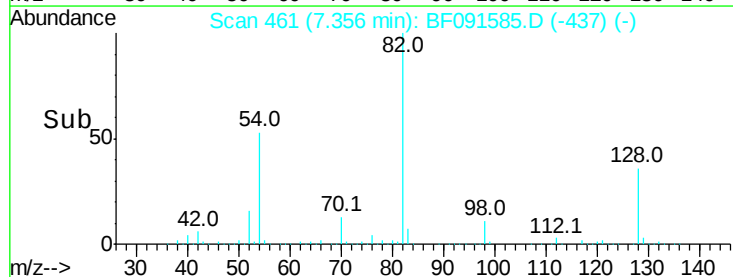
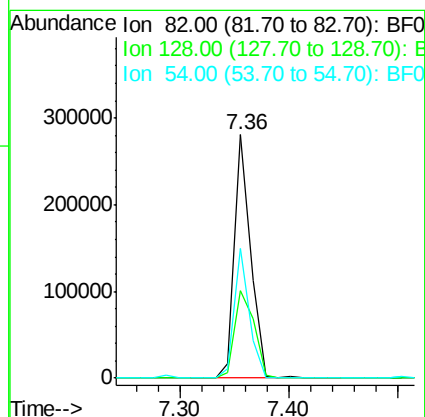
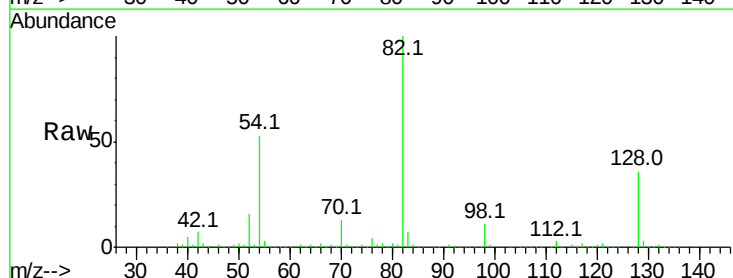
Manual Integrations
APPROVED

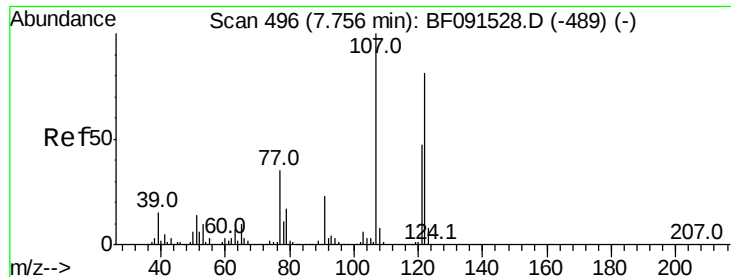
sohil
12/15/2016 5:39:42 PM



#23
Nitrobenzene-d5
Concen: 15.20 ng
RT: 7.36 min Scan# 461
Delta R.T. -0.02 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Lower	Upper
82	100		
128	36.1	31.8	47.6
54	53.3	49.1	73.7





#27

2,4-Dimethylphenol

Concen: 14.44 ng

RT: 7.76 min Scan# 496

Delta R.T. -0.00 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

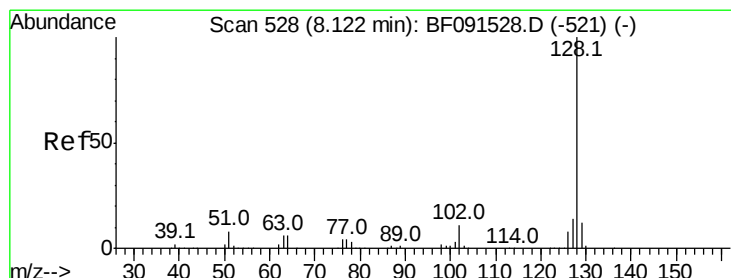
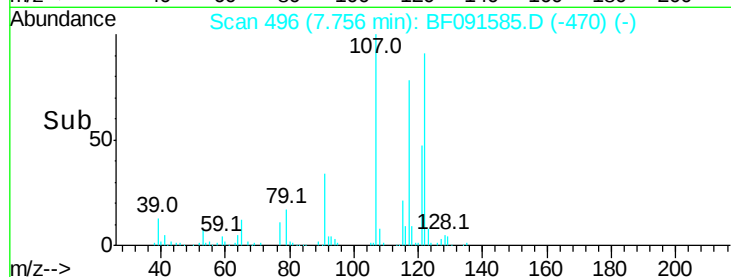
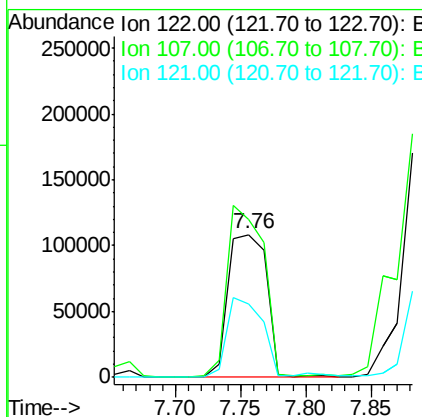
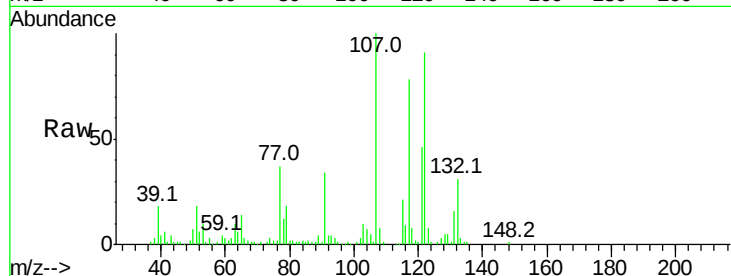
ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion:	122	Resp:	222715
Ion Ratio	Lower	Upper	
122	100		
107	110.4	96.8	145.2
121	51.2	47.7	71.5

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



#31

Naphthalene

Concen: 148.93 ng

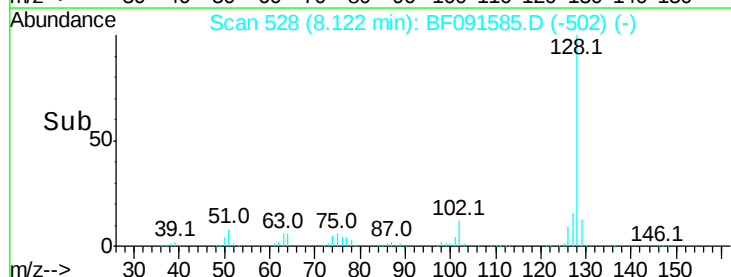
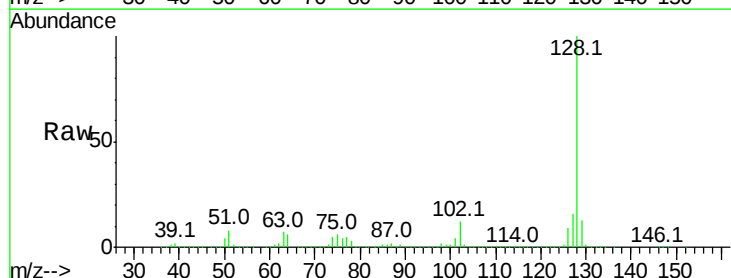
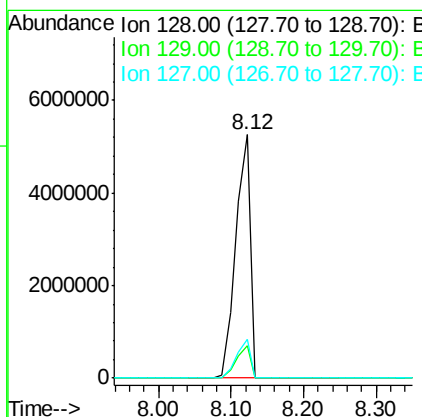
RT: 8.12 min Scan# 528

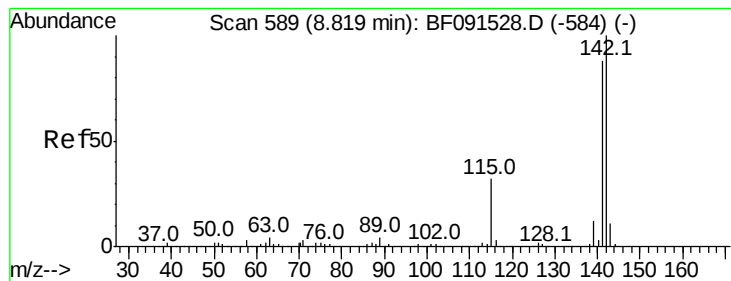
Delta R.T. -0.00 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Tgt Ion:	128	Resp:	7283540
Ion Ratio	Lower	Upper	
128	100		
129	13.5	9.1	13.7
127	16.1	11.0	16.4





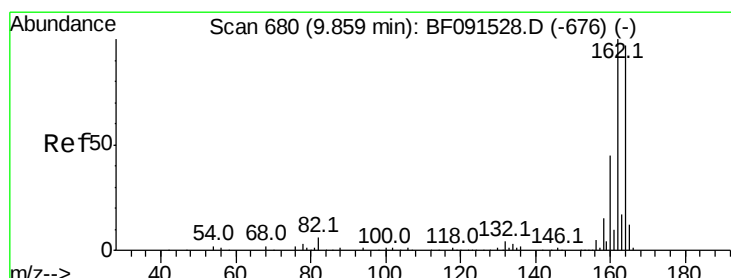
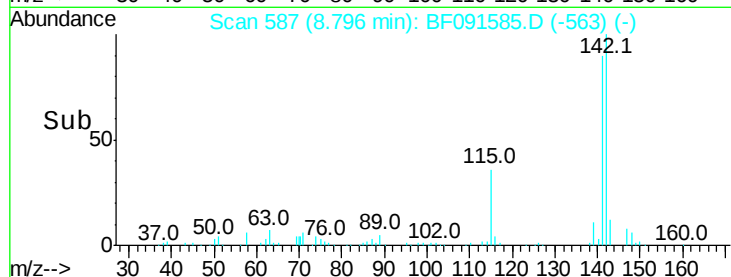
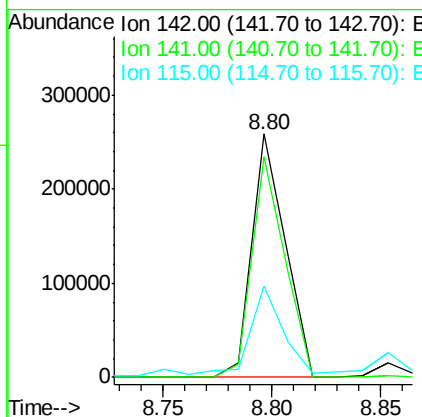
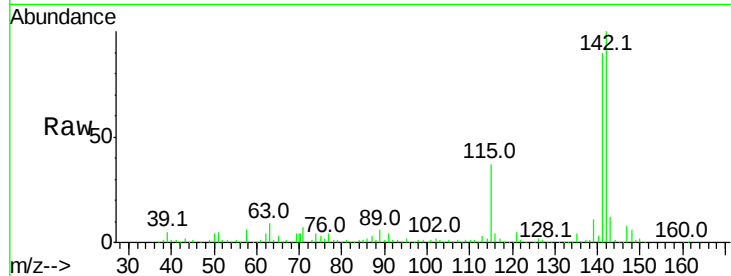
#37
2-Methylnaphthalene
Concen: 8.75 ng
RT: 8.80 min Scan# 587
Delta R.T. -0.02 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GWDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.7	107.5
115	37.3	25.0	37.6

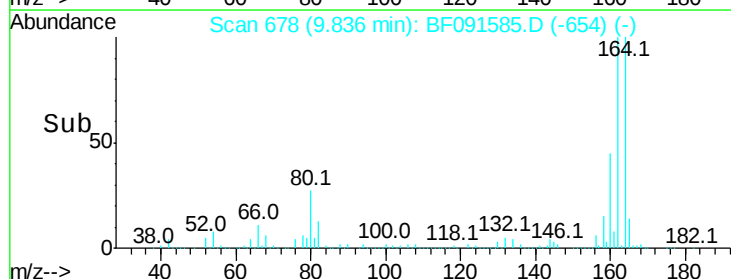
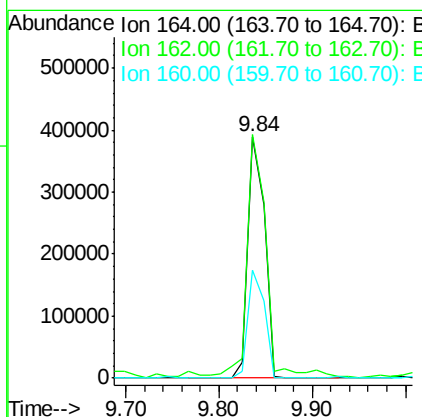
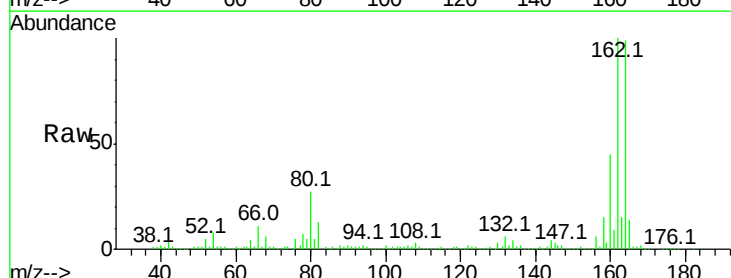
Manual Integrations
APPROVED

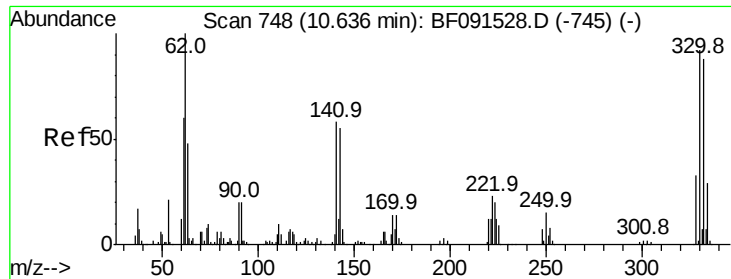
sohil
12/15/2016 5:39:42 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.02 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.6	124.0
160	45.0	36.7	55.1





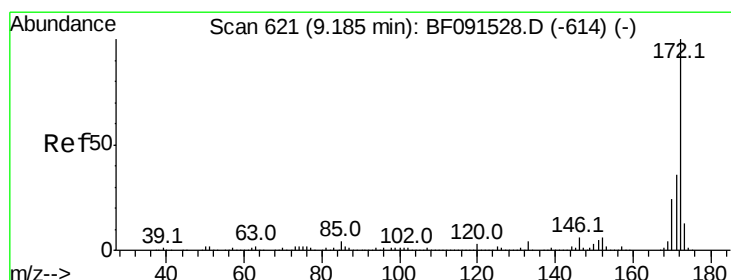
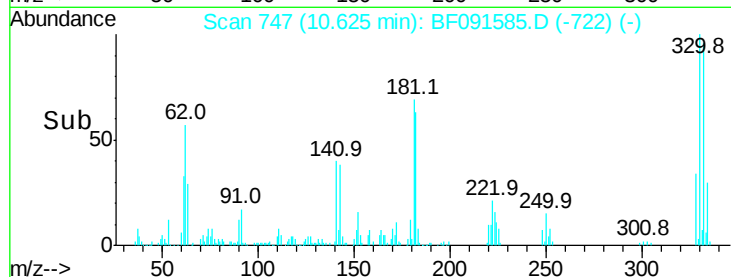
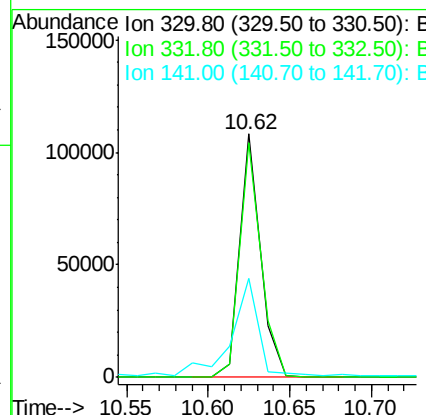
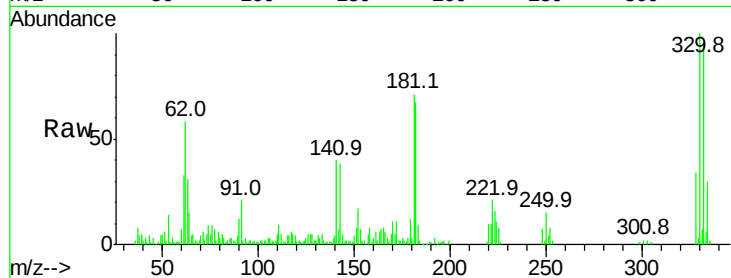
#41
 2,4,6-Tribromophenol
 Concen: 23.67 ng
 RT: 10.62 min Scan# 747
 Delta R.T. -0.01 min
 Lab File: BF091585.D
 Acq: 14 Dec 2016 14:51

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GWDL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.5	76.2	114.4	
141	53.0	33.6	50.4	

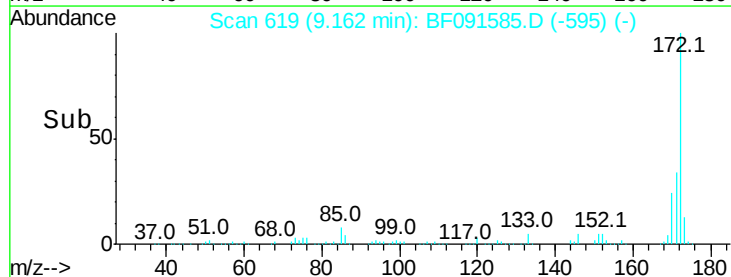
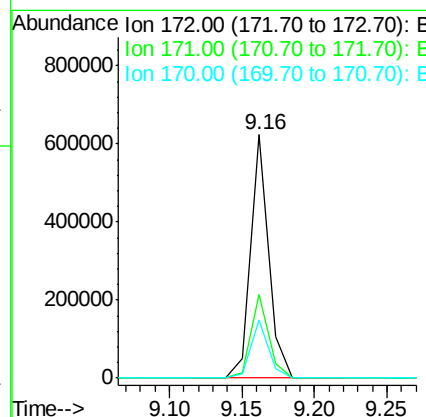
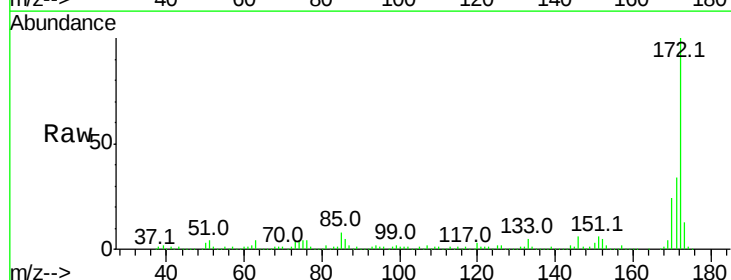
Manual Integrations
 APPROVED

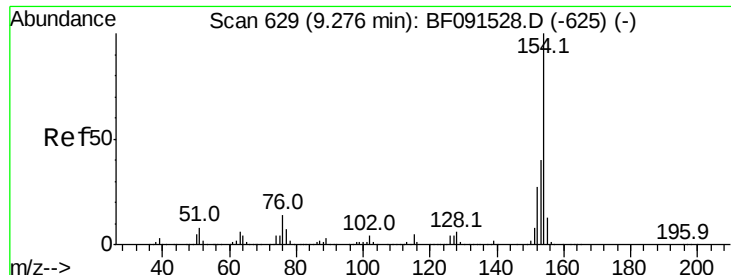
sohil
 12/15/2016 5:39:42 PM



#44
 2-Fluorobiphenyl
 Concen: 19.24 ng
 RT: 9.16 min Scan# 619
 Delta R.T. -0.02 min
 Lab File: BF091585.D
 Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.3	29.4	44.0	
170	23.7	19.7	29.5	





#45

1,1'-Biphenyl

Concen: 12.51 ng

RT: 9.26 min Scan# 628

Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

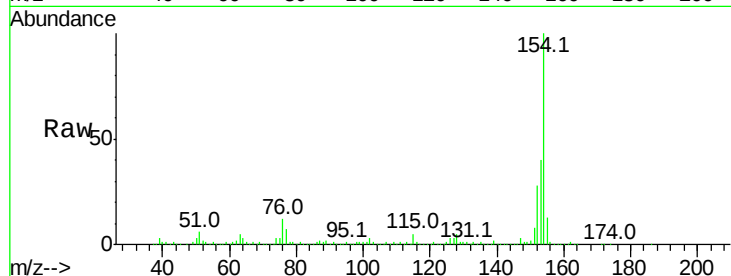
ClientSampleId :

QNWP8-MW26S-GWDL

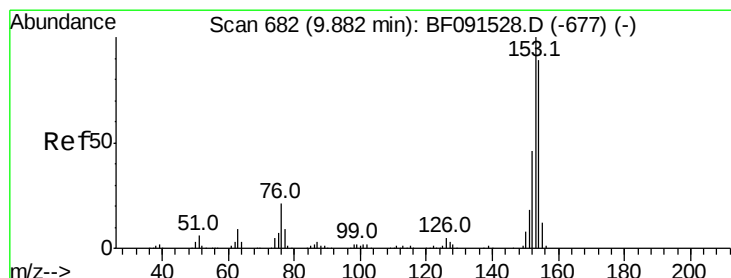
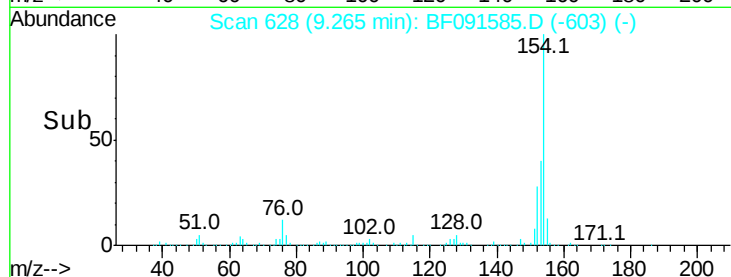
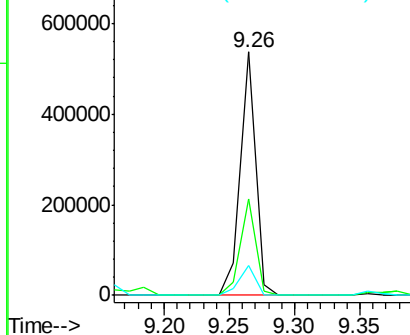
Tot Ion:	154	Resp:	436312
Ion Ratio	Lower	Upper	
154	100		
153	39.6	20.6	60.6
76	12.1	0.0	36.6

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#51

Acenaphthene

Concen: 28.67 ng

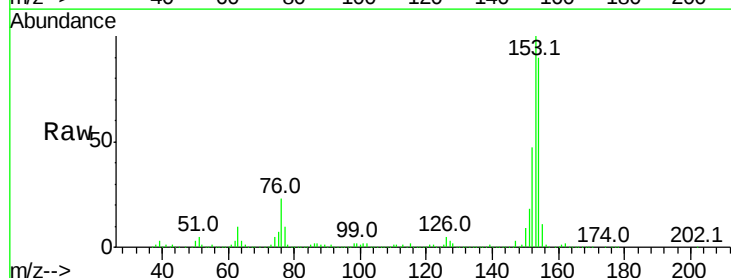
RT: 9.87 min Scan# 681

Delta R.T. -0.01 min

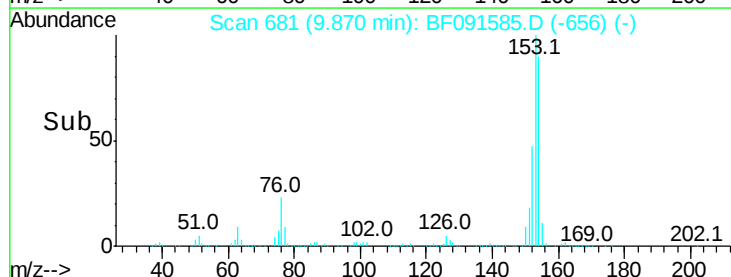
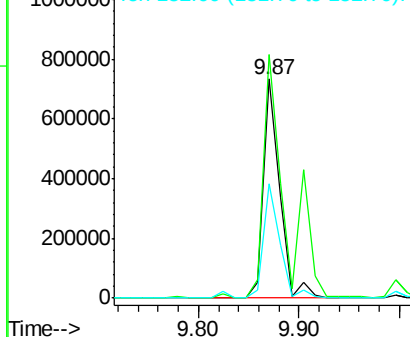
Lab File: BF091585.D

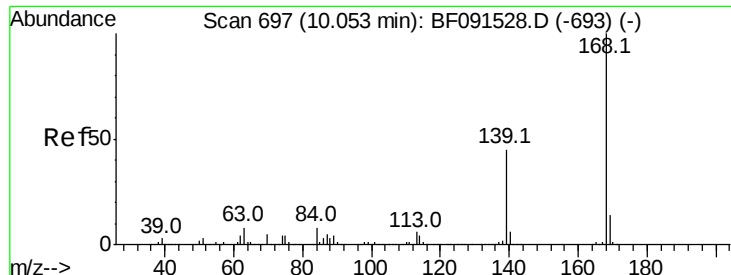
Acq: 14 Dec 2016 14:51

Tgt Ion:	154	Resp:	820049
Ion Ratio	Lower	Upper	
154	100		
153	111.3	91.0	136.6
152	52.0	44.2	66.2



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





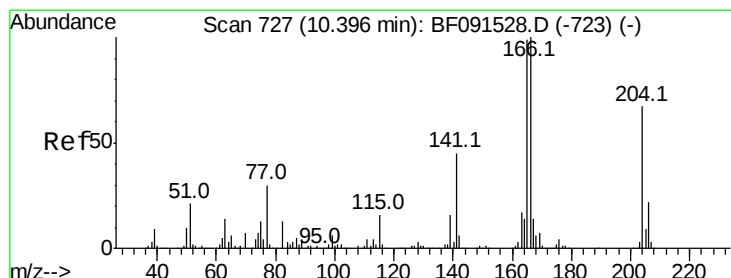
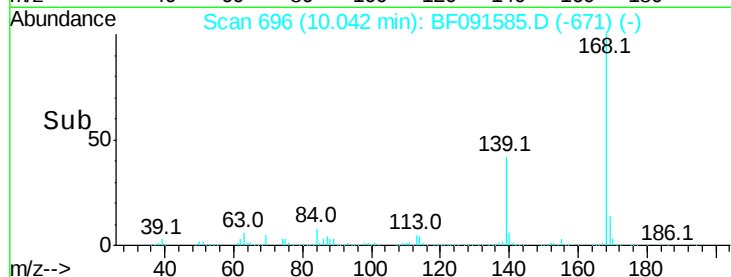
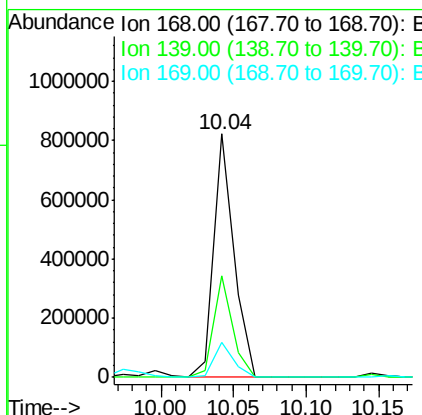
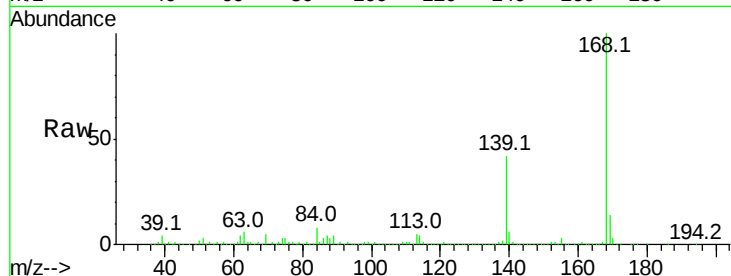
#54
Dibenzenofuran
Concen: 22.39 ng
RT: 10.04 min Scan# 696
Delta R.T. -0.01 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GWDL

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.6	33.4	50.2
169	14.3	11.1	16.7

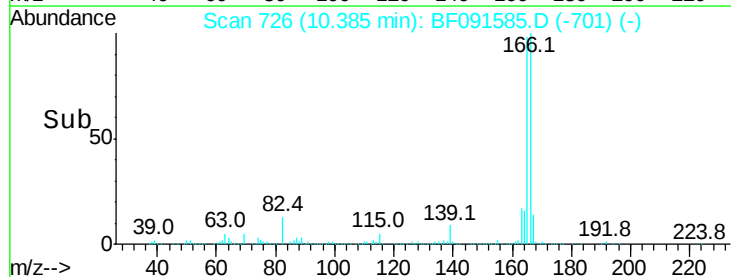
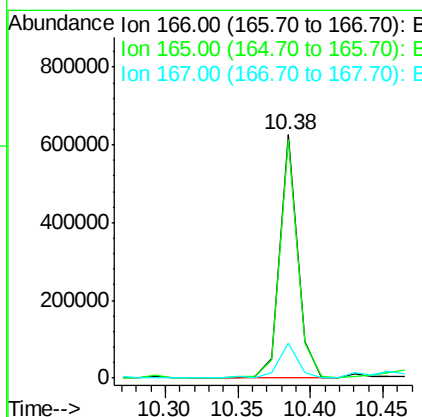
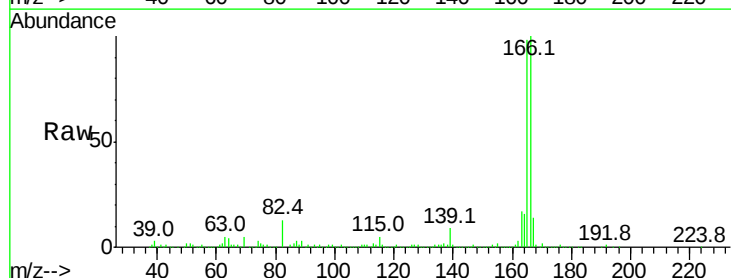
Manual Integrations
APPROVED

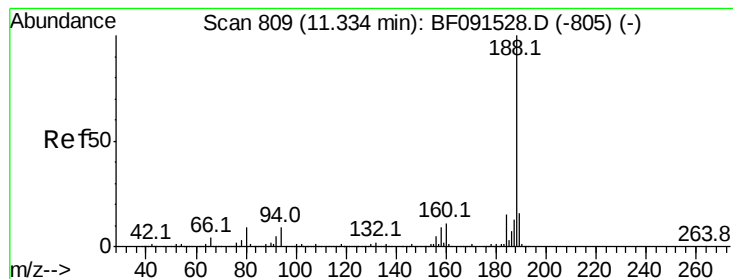
sohil
12/15/2016 5:39:42 PM



#57
Fluorene
Concen: 18.03 ng
RT: 10.38 min Scan# 726
Delta R.T. -0.01 min
Lab File: BF091585.D
Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.2	80.0	120.0
167	14.5	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

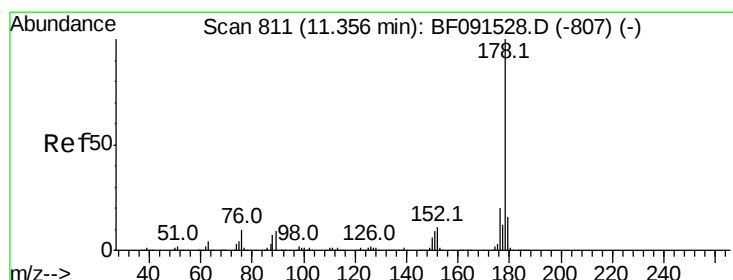
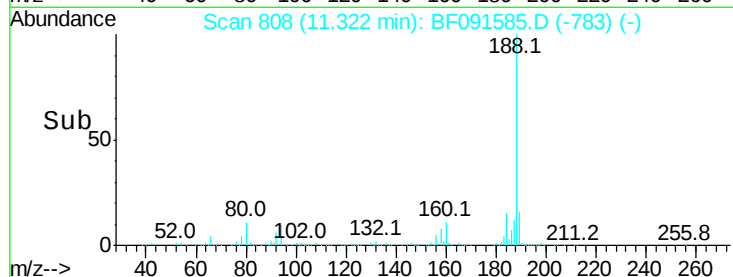
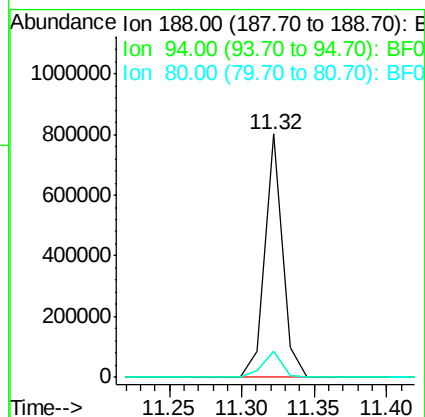
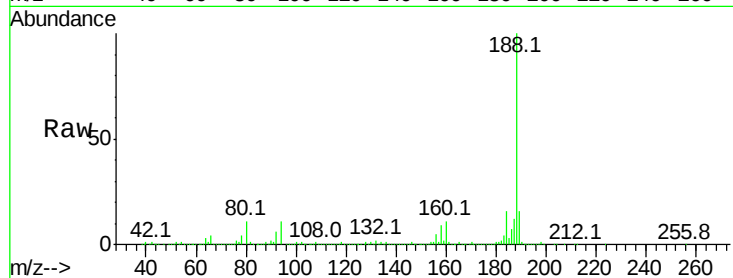
ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion:	188	Resp:	681005
Ion Ratio	Lower	Upper	
188	100		
94	10.5	9.2	13.8
80	10.9	10.5	15.7

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



#70

Phenanthrene

Concen: 25.07 ng

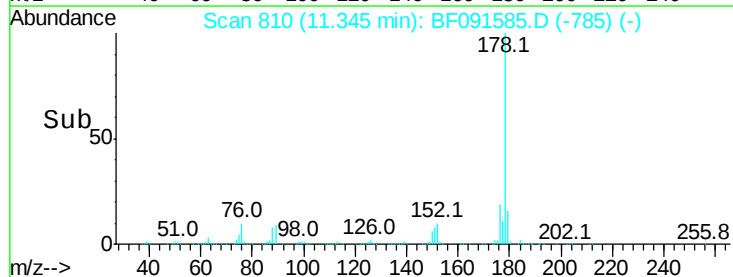
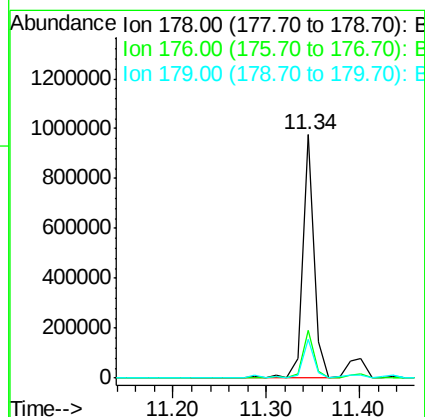
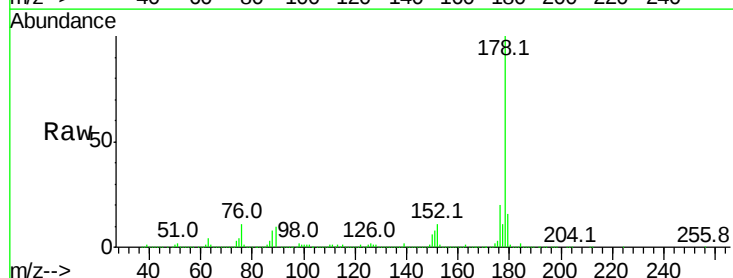
RT: 11.34 min Scan# 810

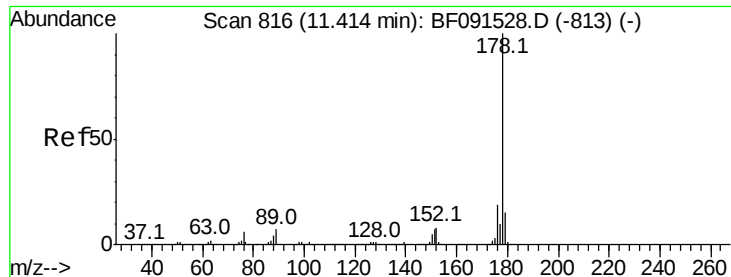
Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Tgt Ion:	178	Resp:	845473
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.9	23.9
179	15.9	12.6	18.8





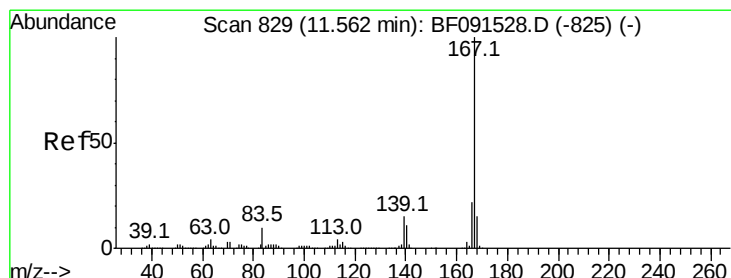
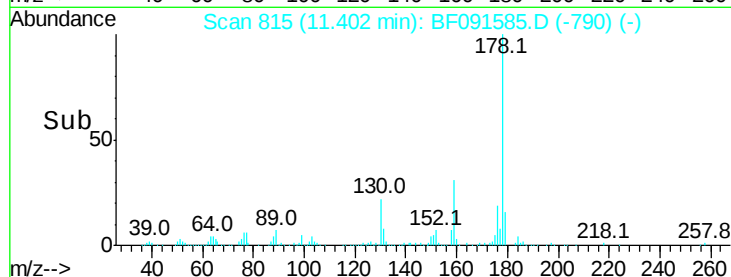
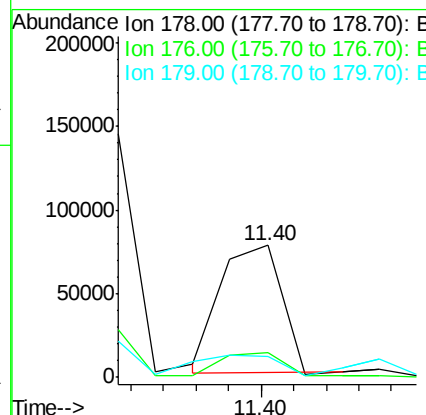
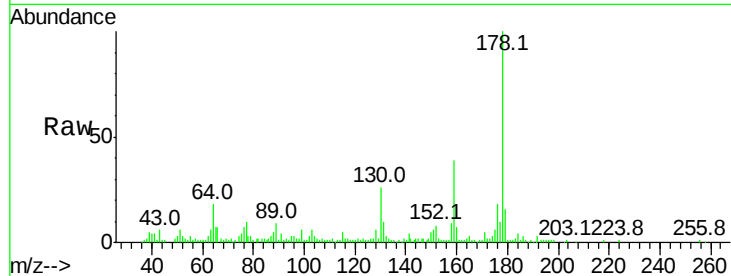
#71
 Anthracene
 Concen: 2.70 ng
 RT: 11.40 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF091585.D
 Acq: 14 Dec 2016 14:51

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GWDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.6
179	15.9	12.7	19.1

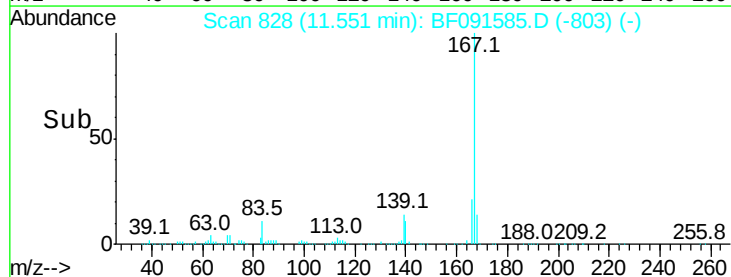
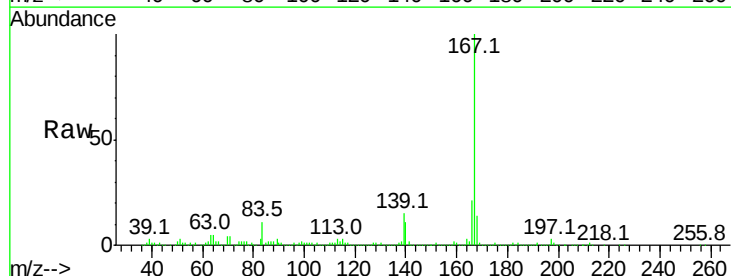
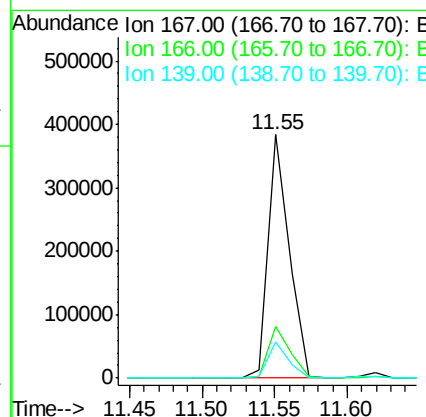
Manual Integrations
 APPROVED

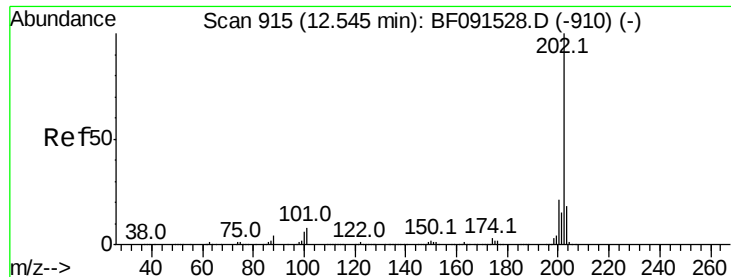
sohil
 12/15/2016 5:39:42 PM



#72
 Carbazole
 Concen: 12.24 ng
 RT: 11.55 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF091585.D
 Acq: 14 Dec 2016 14:51

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.2	18.1	27.1
139	14.7	11.5	17.3





#74

Fluoranthene

Concen: 2.24 ng

RT: 12.53 min Scan# 914

Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

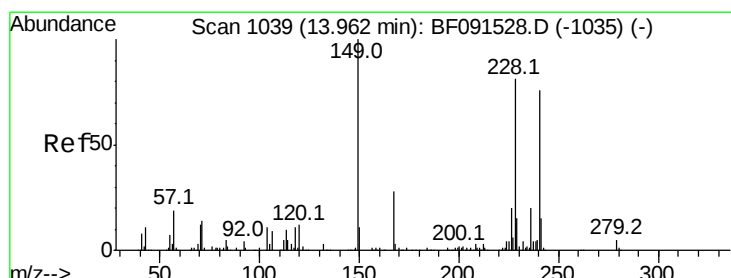
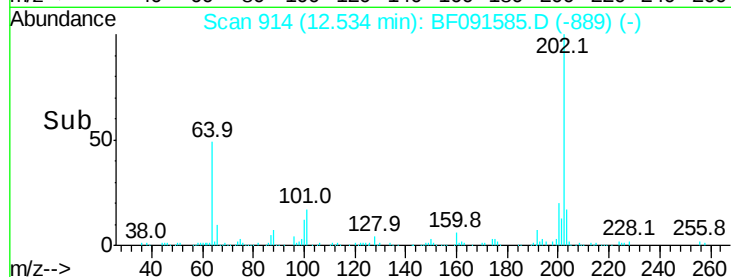
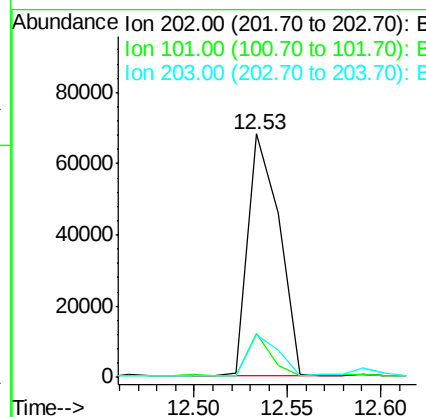
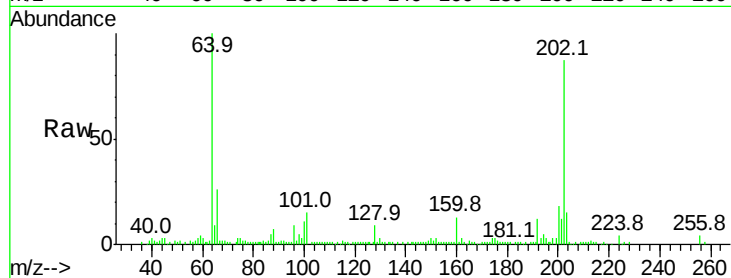
ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion:	202	Resp:	79099
Ion Ratio	Lower	Upper	
202	100		
101	17.8	0.0	29.5
203	17.3	0.0	37.8

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



#75

Chrysene-d12

Concen: 20.00 ng

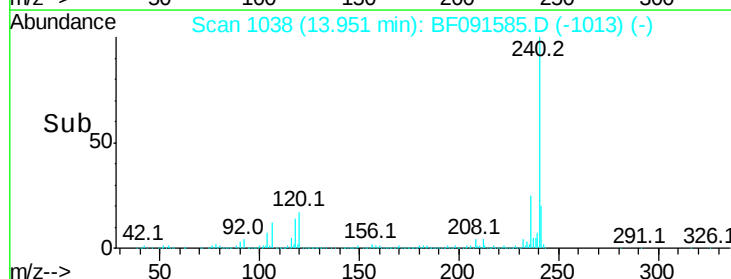
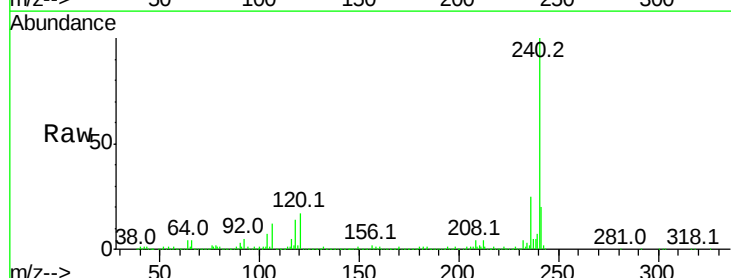
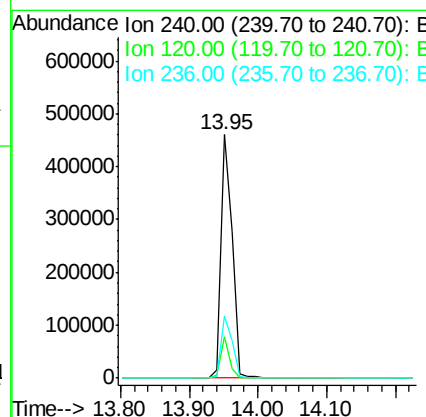
RT: 13.95 min Scan# 1038

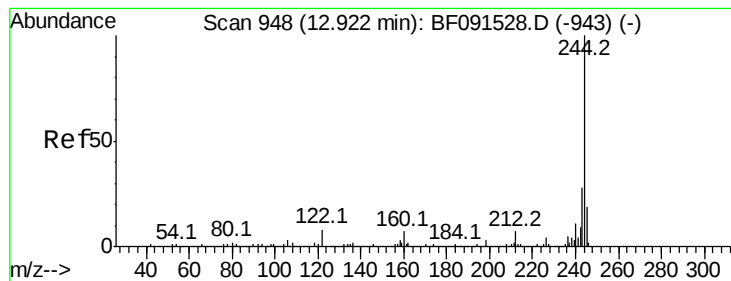
Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Tgt Ion:	240	Resp:	531708
Ion Ratio	Lower	Upper	
240	100		
120	16.8	12.1	18.1
236	25.2	21.0	31.6





#78

Terphenyl-d14

Concen: 11.74 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Instrument :

BNA_F

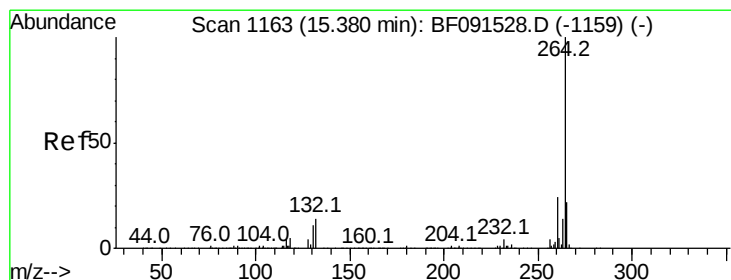
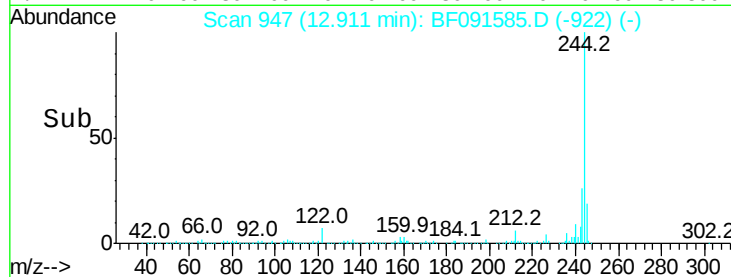
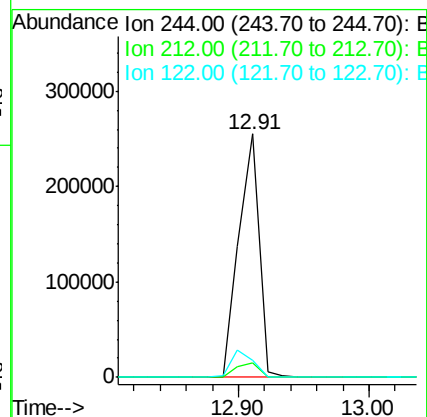
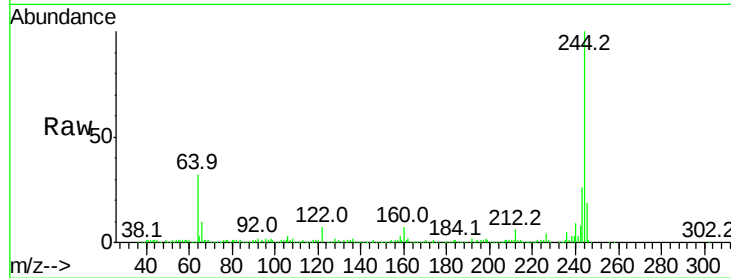
ClientSampleId :

QNWP8-MW26S-GWDL

Tot Ion:	244	Resp:	275196
Ion Ratio	Lower	Upper	
244	100		
212	5.9	6.5	9.7#
122	6.9	9.5	14.3#

Manual Integrations
APPROVED

sohil
12/15/2016 5:39:42 PM



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.37 min Scan# 1162

Delta R.T. -0.01 min

Lab File: BF091585.D

Acq: 14 Dec 2016 14:51

Tgt Ion:	264	Resp:	570274
Ion Ratio	Lower	Upper	
264	100		
260	24.7	18.8	28.2
265	21.1	17.0	25.6

