Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087467.D
Acq On : 28 May 2016 4:55
Operator : UM/SJ
Sample : H3190-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Manual Integrations APPROVED
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Quant Time: May 28 05:55:26 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 25 16:26:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	111749	20.00	ng		-0.03
21) Naphthalene-d8	9.52	136	446020	20.00	ng		-0.03
38) Acenaphthene-d10	12.34	164	204987	20.00	ng		-0.05
63) Phenanthrene-d10	14.74	188	336816	20.00	ng		-0.03
75) Chrysene-d12	18.46	240	241152	20.00	ng		-0.02
86) Perylene-d12	20.13	264	204635	20.00	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.38	112	645573	101.51	ng		-0.03
7) Phenol-d6	7.04	99	918350	106.87	ng		-0.03
23) Nitrobenzene-d5	8.40	82	640223	72.34	ng		-0.05
41) 2,4,6-Tribromophenol	13.63	330	164318	83.42	ng		-0.05
44) 2-Fluorobiphenyl	11.29	172	945108	65.00	ng		-0.05
78) Terphenyl-d14	17.10	244	629166	55.47	ng		-0.03
Target Compounds							Qvalue
31) Naphthalene	9.55	128	238394	10.67	ng		98
37) 2-Methylnaphthalene	10.67	142	117097	8.39	ng	#	96
48) Acenaphthylene	12.11	152	374614	17.92	ng		99
49) Dimethylphthalate	11.99	163	170997	10.41	ng		99
54) Dibenzofuran	12.69	168	77430	4.45	ng		96
70) Phenanthrene	14.78	178	418477	22.43	ng		99
71) Anthracene	14.87	178	244371	12.97	ng		99
72) Carbazole	15.17	167	136465	8.49	ng		100
74) Fluoranthene	16.56	202	1553116	83.02	ng		91
77) Pyrene	16.86	202	1350008	77.77	ng		98
80) Benzo(a)anthracene	18.45	228	868983m	63.35	ng		
82) Chrysene	18.49	228	959930	70.51	ng		96
85) Indeno(1,2,3-cd)pyrene	21.35	276	470019	43.07	ng	#	87
87) Benzo(b)fluoranthene	19.73	252	1335002m	102.42	ng		
88) Benzo(k)fluoranthene	19.74	252	494763m	44.10	ng		
89) Benzo(a)pyrene	20.07	252	696153	61.75	ng	#	96
90) Dibenzo(a,h)anthracene	21.35	278	111334m	11.58	ng		
91) Benzo(g,h,i)perylene	21.70	276	382581	40.33	ng	#	91

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

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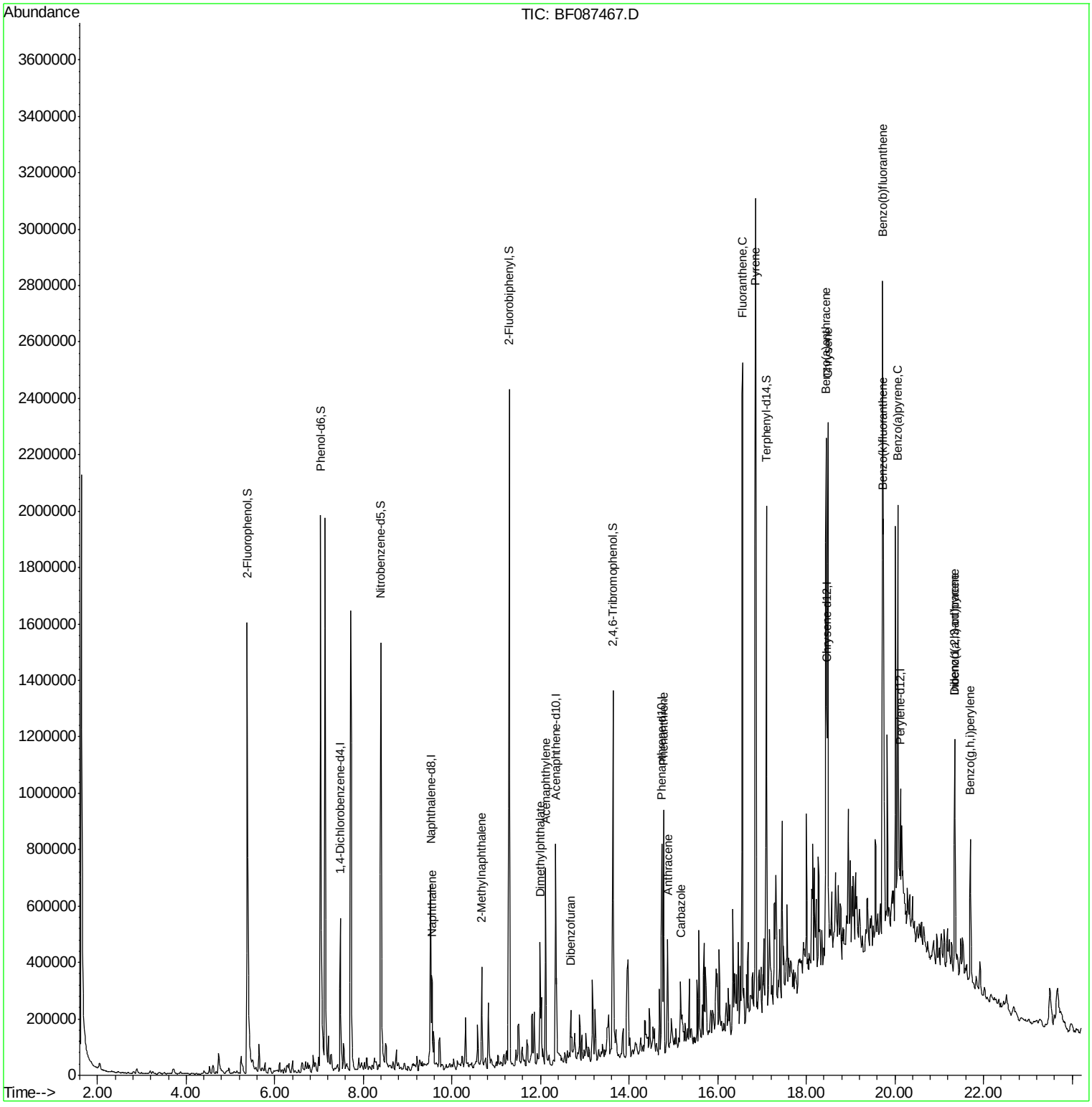
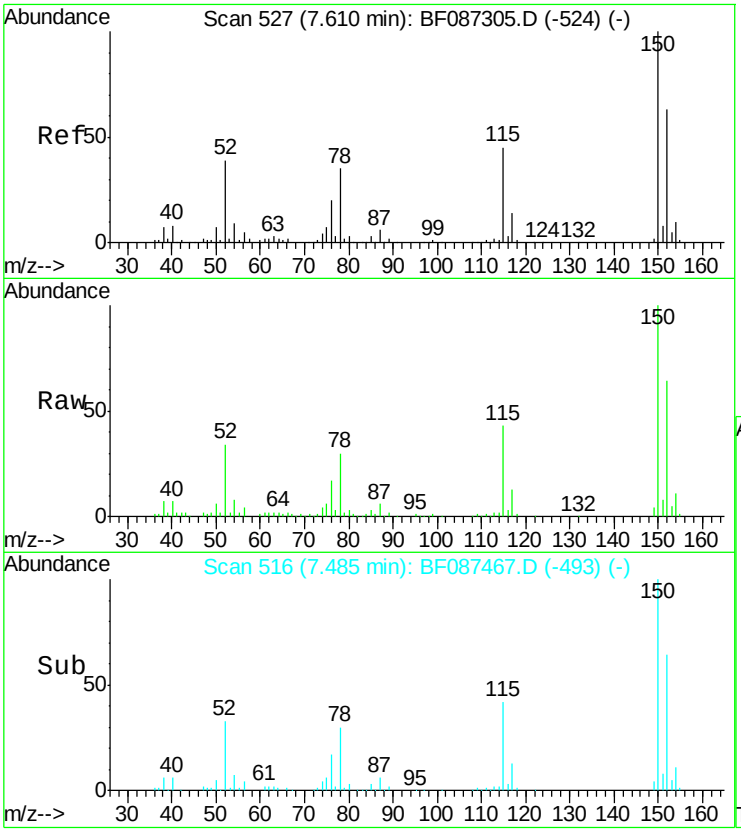
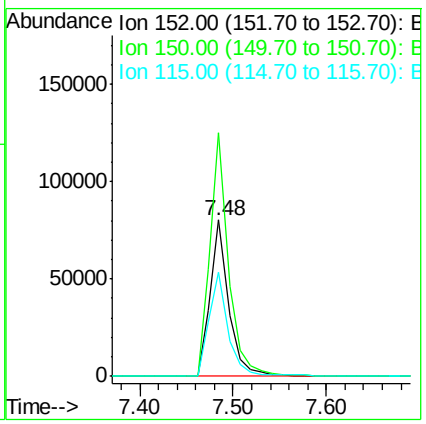




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.48 min Scan# 516
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:152 Resp: 111749

Ion	Ratio	Lower	Upper
152	100		
150	155.8	125.8	188.6
115	66.6	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Manual Integrations APPROVED
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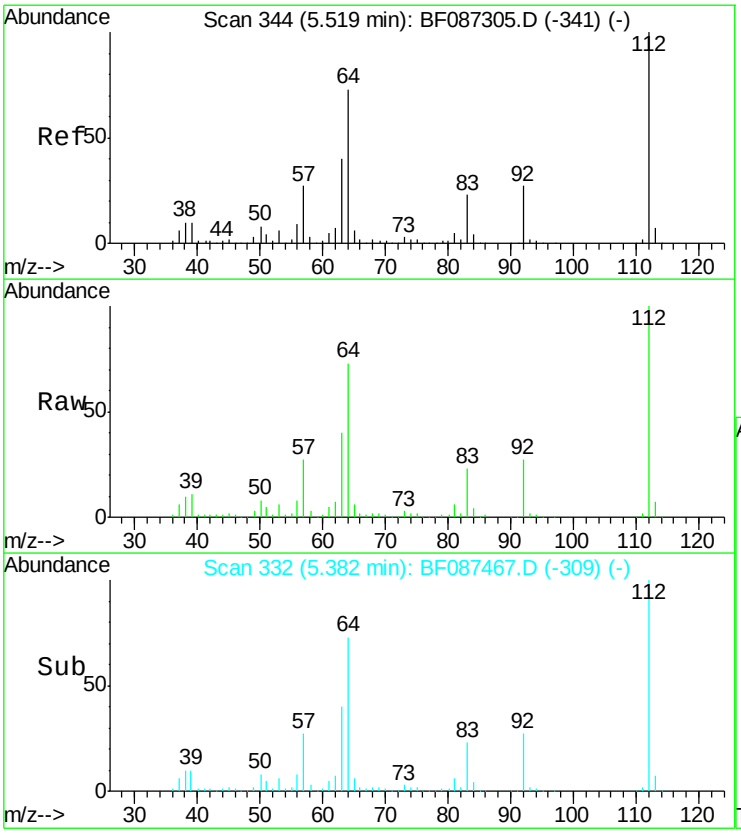
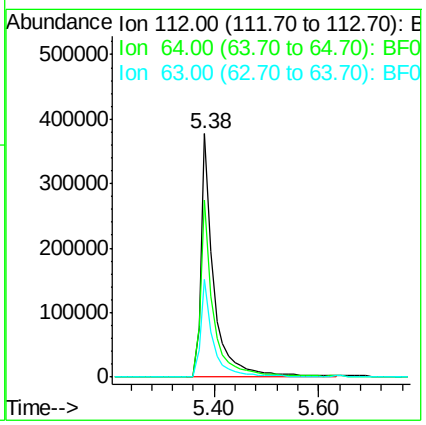
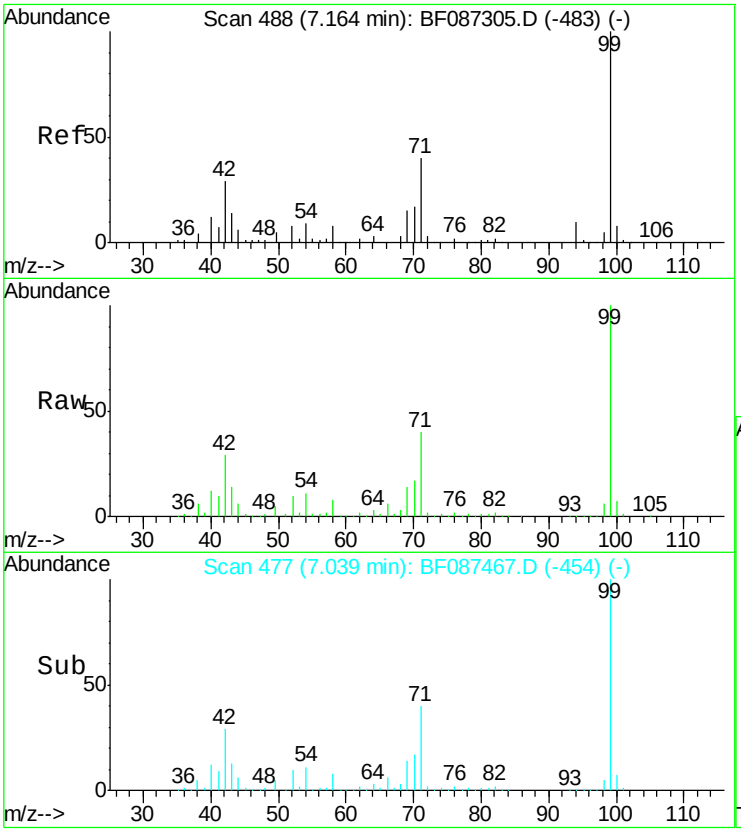


#5
2-Fluorophenol
Concen: 101.51 ng
RT: 5.38 min Scan# 332
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:112 Resp: 645573

Ion	Ratio	Lower	Upper
112	100		
64	72.5	52.1	78.1
63	40.0	25.7	38.5#

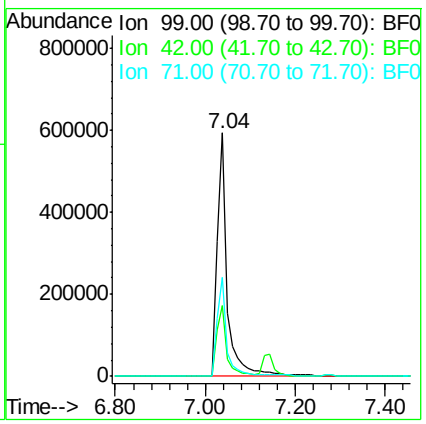




#7
Phenol-d6
Concen: 106.87 ng
RT: 7.04 min Scan# 477
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion: 99 Resp: 918350

Ion	Ratio	Lower	Upper
99	100		
42	29.3	13.6	20.4#
71	40.4	24.6	36.8#



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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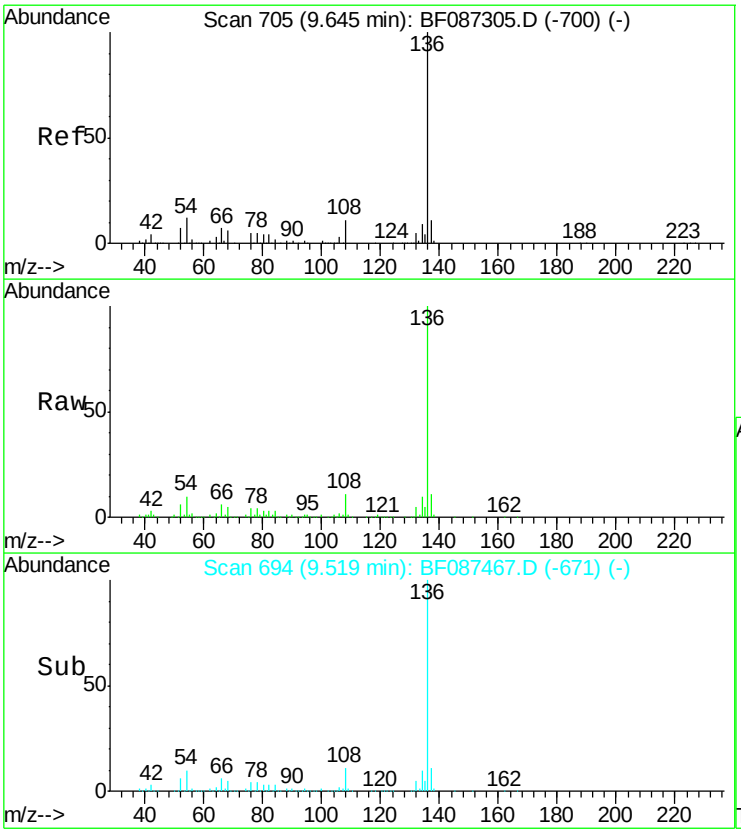
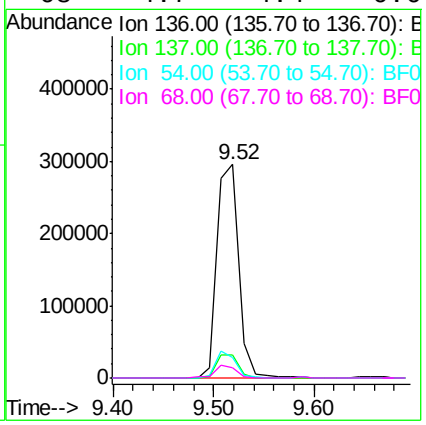
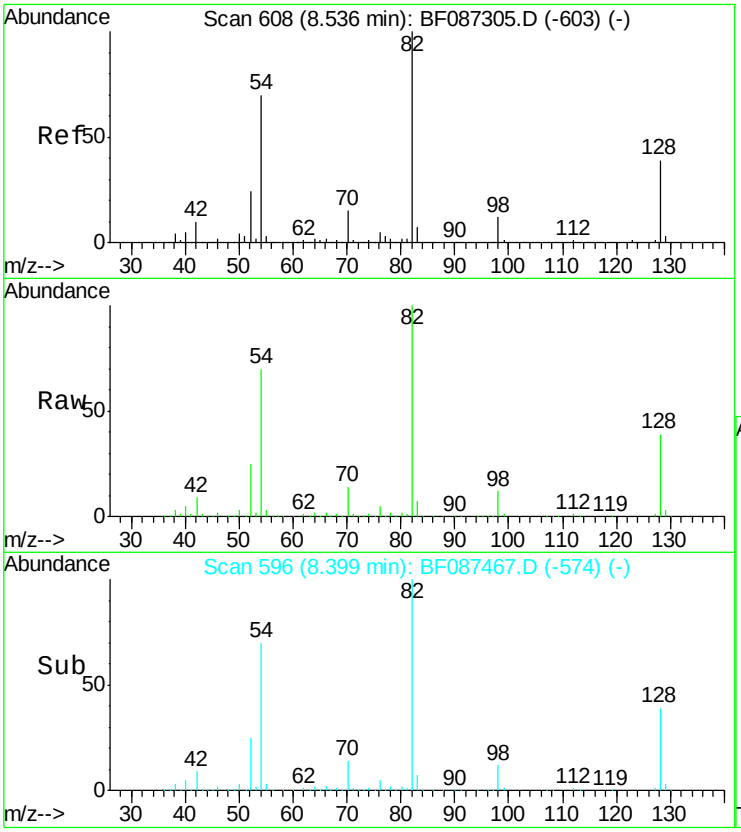


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:136 Resp: 446020

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	9.5	5.0	7.4#
68	4.7	4.4	6.6

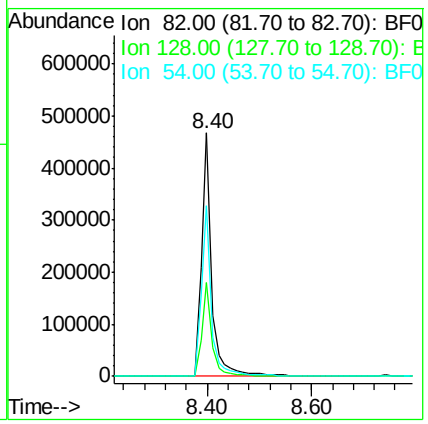




#23
Nitrobenzene-d5
Concen: 72.34 ng
RT: 8.40 min Scan# 596
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion: 82 Resp: 640223

Ion	Ratio	Lower	Upper
82	100		
128	38.7	40.6	61.0#
54	69.9	38.1	57.1#



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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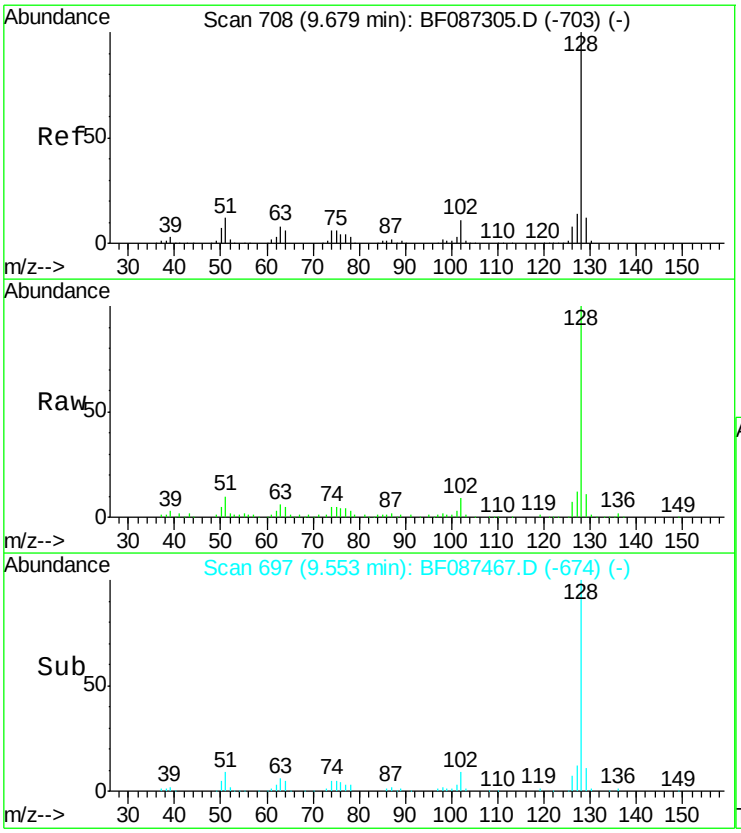
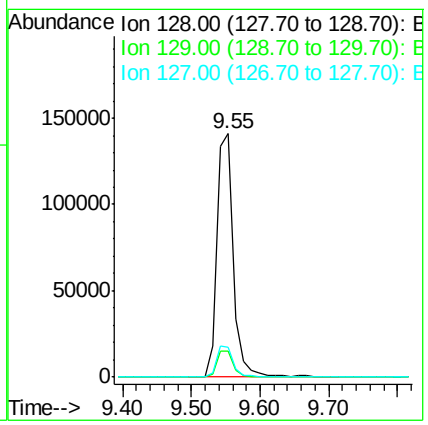
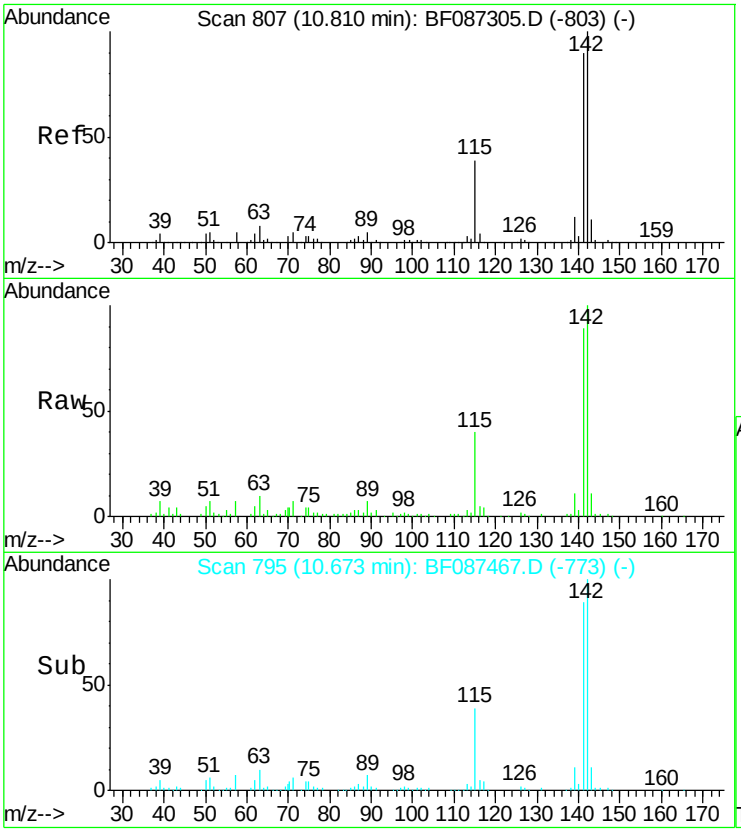


#31
Naphthalene
Concen: 10.67 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:128 Resp: 238394

Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.6	13.0
127	12.4	10.8	16.2

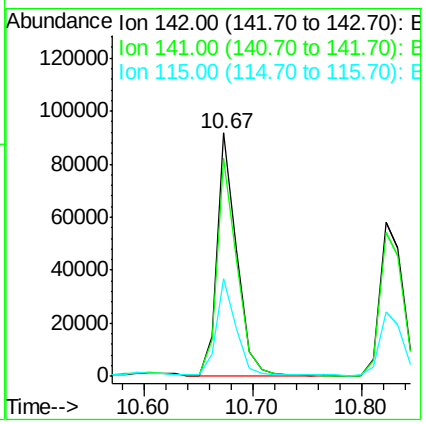




#37
2-Methylnaphthalene
Concen: 8.39 ng
RT: 10.67 min Scan# 795
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:142 Resp: 117097

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.0	106.6
115	40.1	26.6	39.8#



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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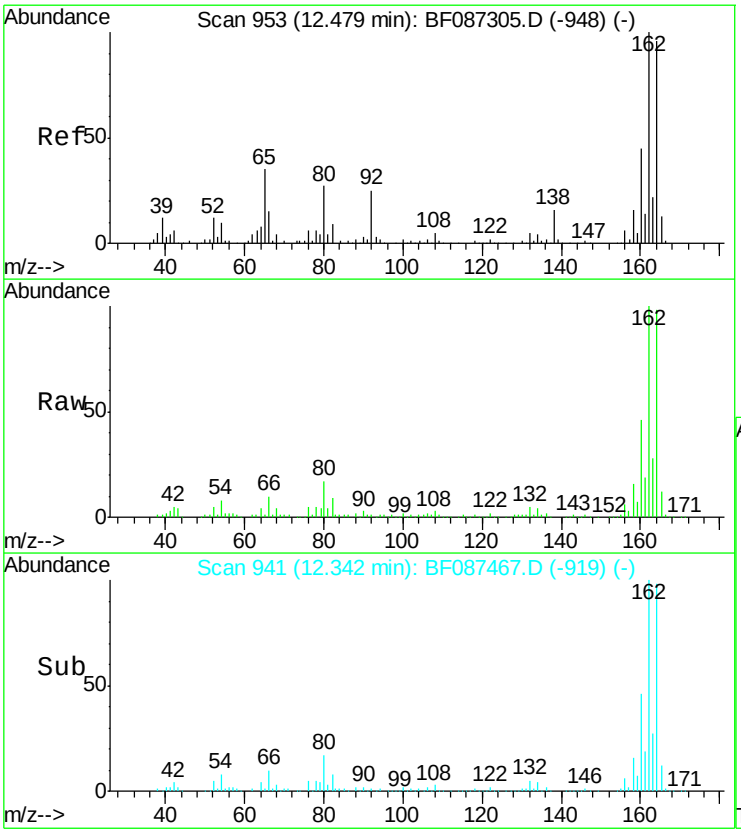
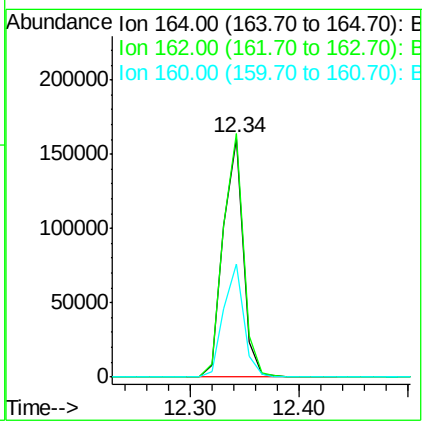
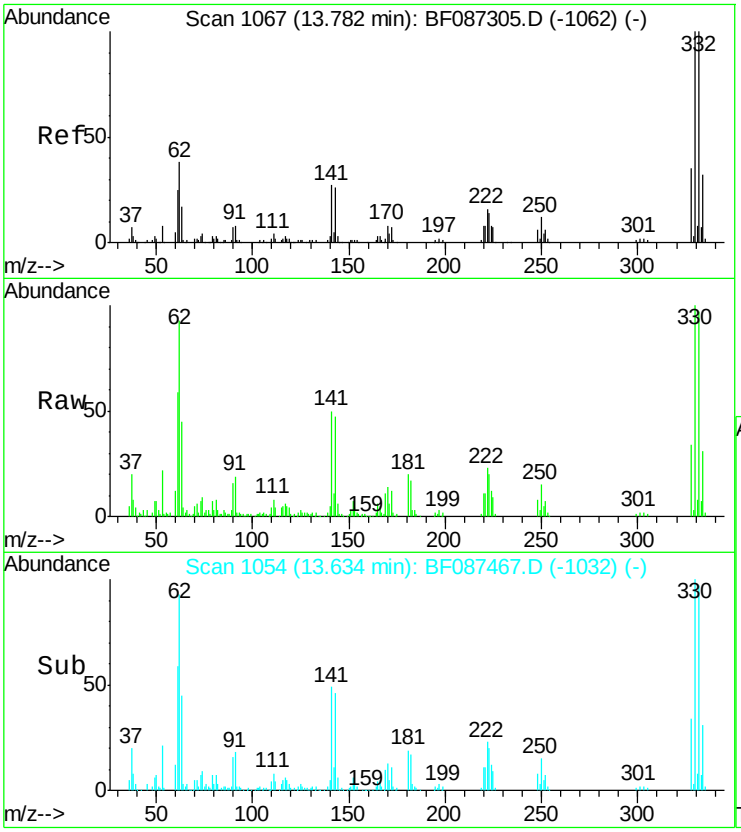


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.34 min Scan# 941
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:164 Resp: 204987

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.8	124.2
160	47.4	36.9	55.3

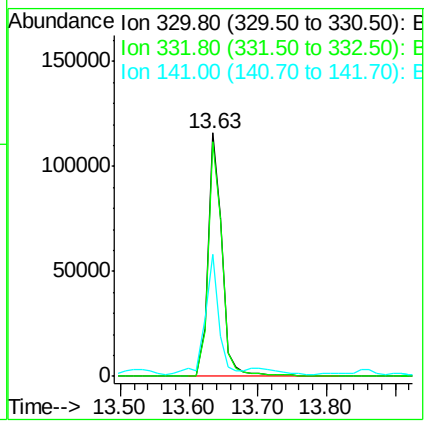




#41
2,4,6-Tribromophenol
Concen: 83.42 ng
RT: 13.63 min Scan# 1054
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:330 Resp: 164318

Ion	Ratio	Lower	Upper
330	100		
332	97.0	79.0	118.4
141	48.9	31.2	46.8#



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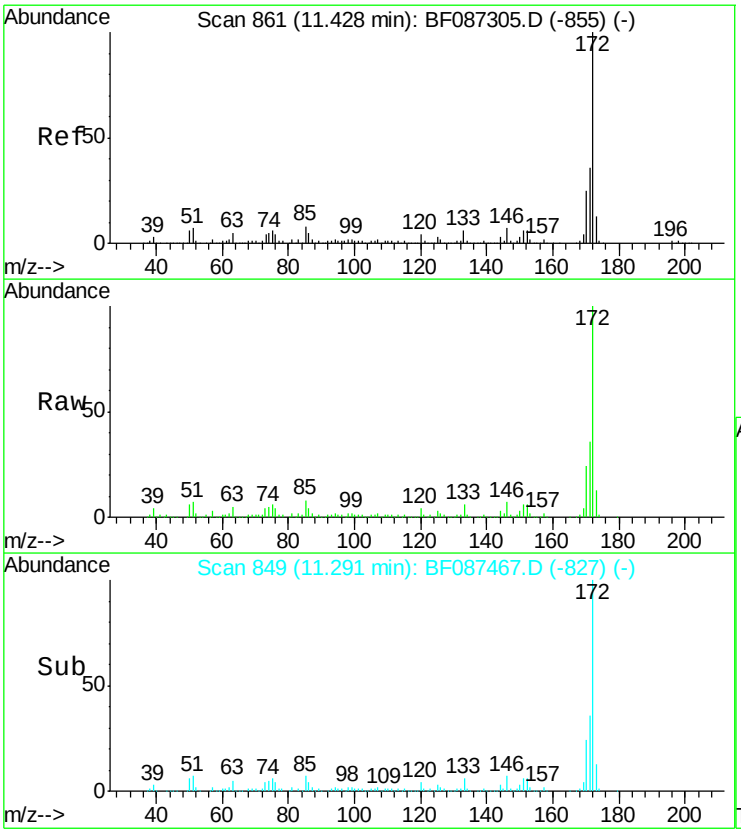
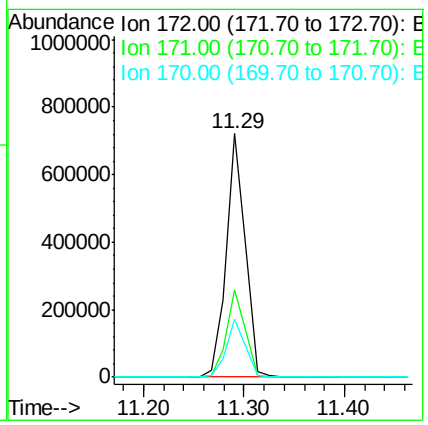
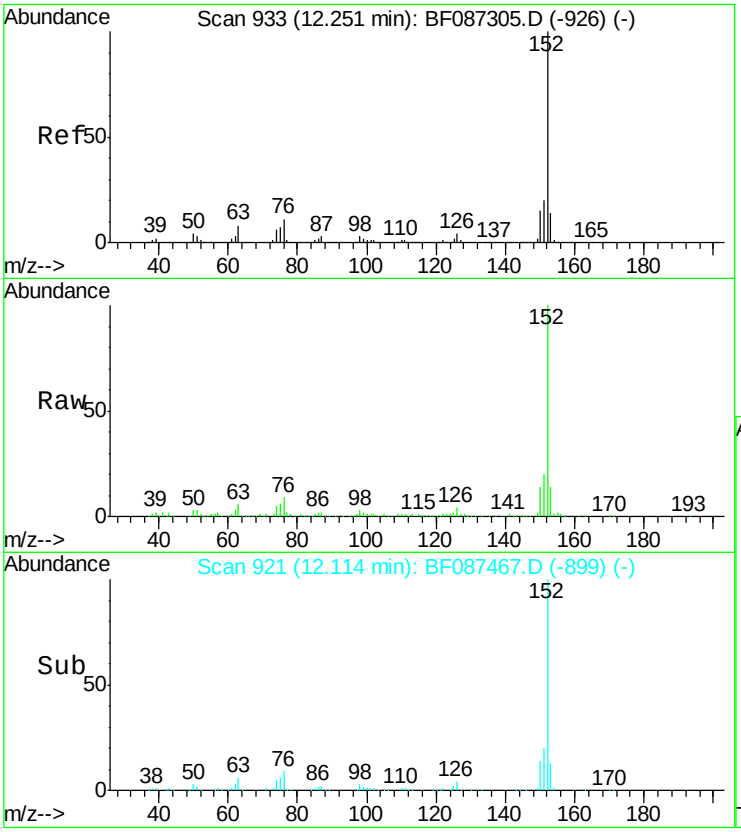


#44
2-Fluorobiphenyl
Concen: 65.00 ng
RT: 11.29 min Scan# 849
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:172 Resp: 945108

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.6
170	23.8	19.8	29.8

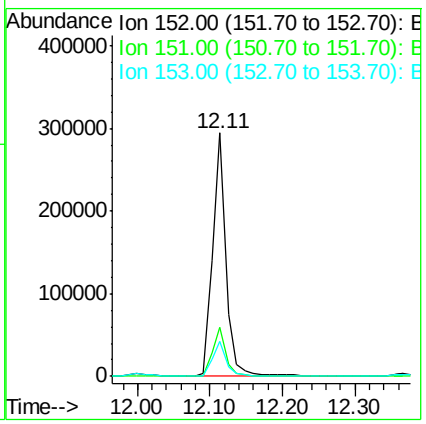




#48
Acenaphthylene
Concen: 17.92 ng
RT: 12.11 min Scan# 921
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:152 Resp: 374614

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.8	25.2
153	14.2	10.9	16.3



Instrument :
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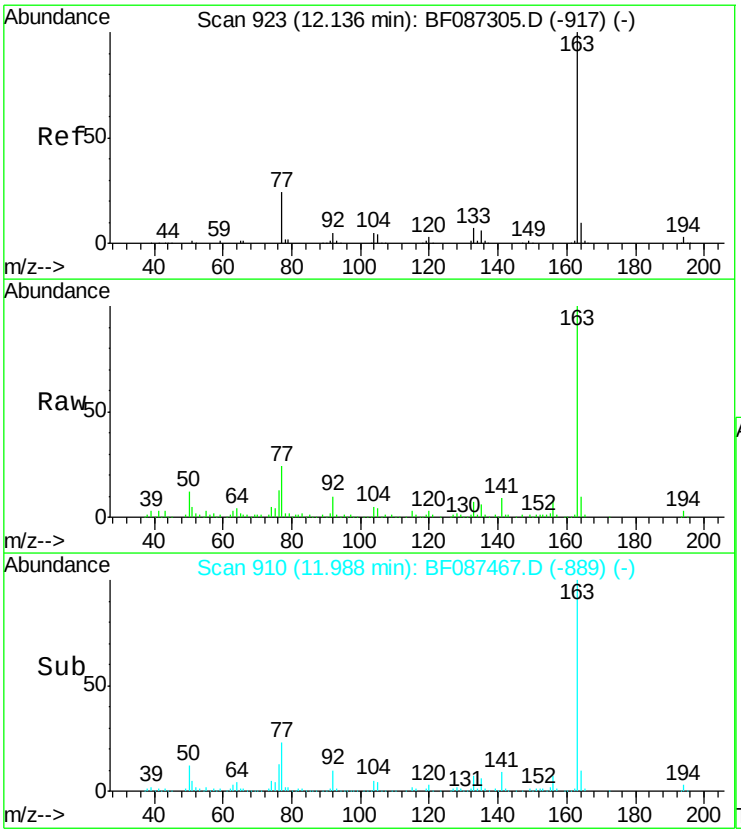
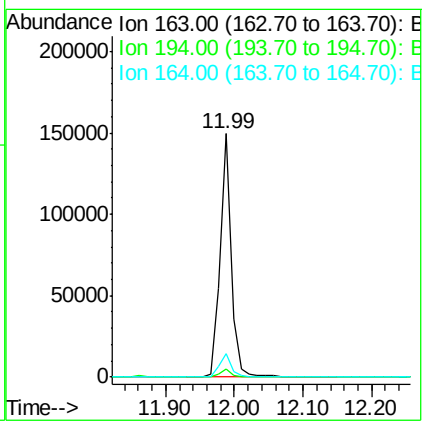
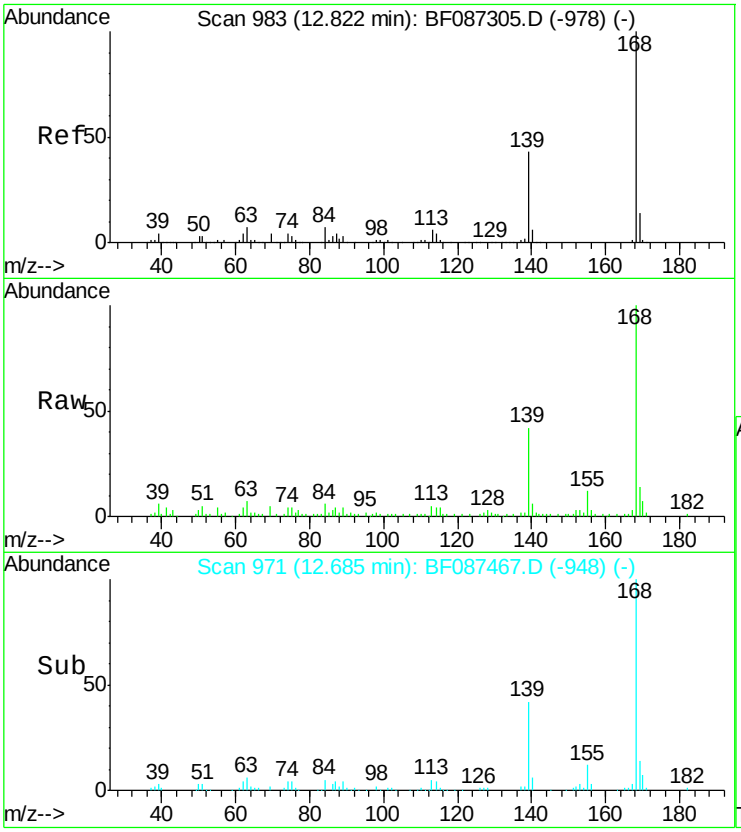


#49
Dimethylphthalate
Concen: 10.41 ng
RT: 11.99 min Scan# 910
Delta R.T. -0.06 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:163 Resp: 170997

Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.6	4.0
164	9.8	8.2	12.4

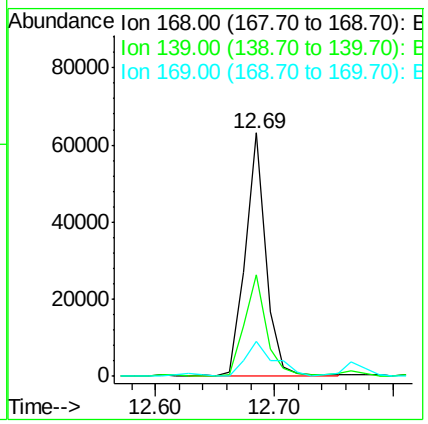




#54
Dibenzofuran
Concen: 4.45 ng
RT: 12.69 min Scan# 971
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:168 Resp: 77430

Ion	Ratio	Lower	Upper
168	100		
139	41.8	31.4	47.0
169	14.4	10.7	16.1



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BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

Manual Integrations APPROVED
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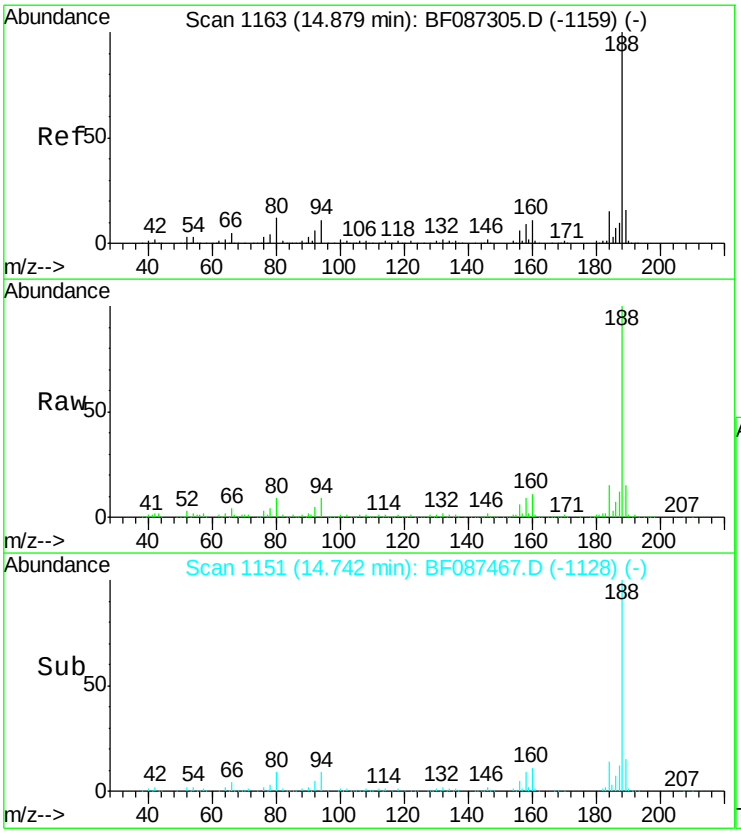
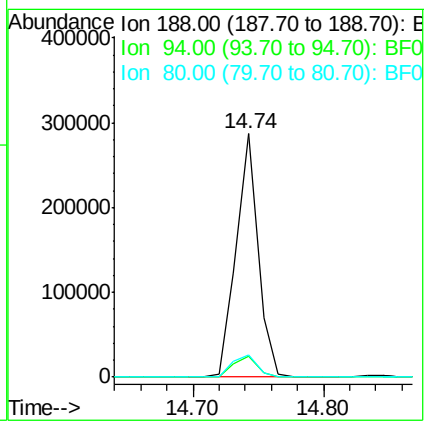
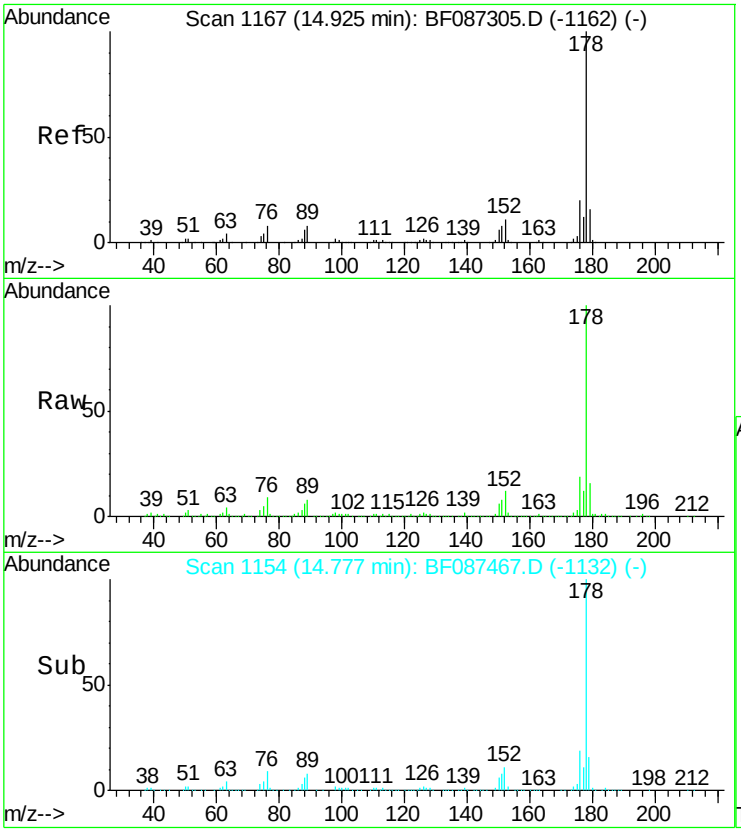


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:188 Resp: 336816

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.8	10.2
80	9.3	7.1	10.7

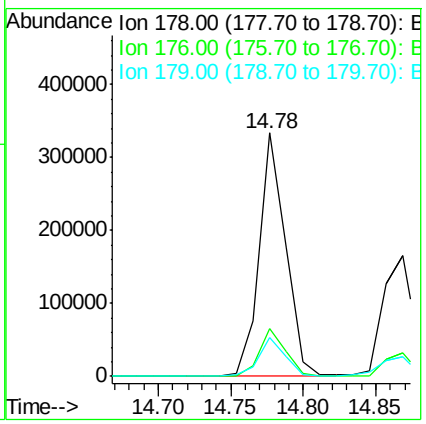




#70
Phenanthrene
Concen: 22.43 ng
RT: 14.78 min Scan# 1154
Delta R.T. -0.05 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:178 Resp: 418477

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.0	24.0
179	15.7	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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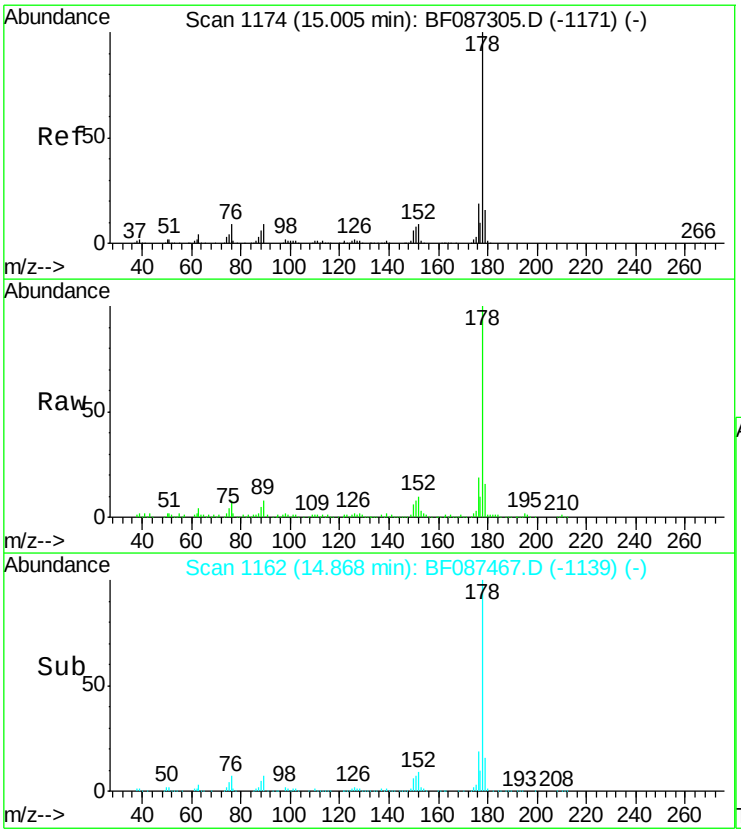
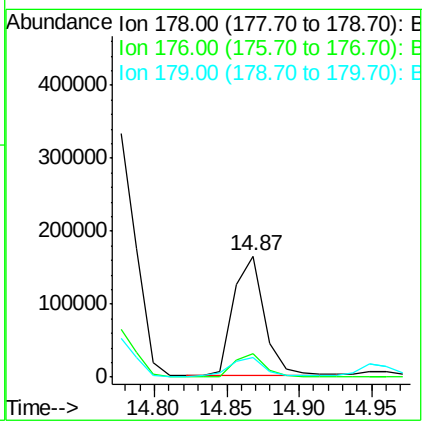
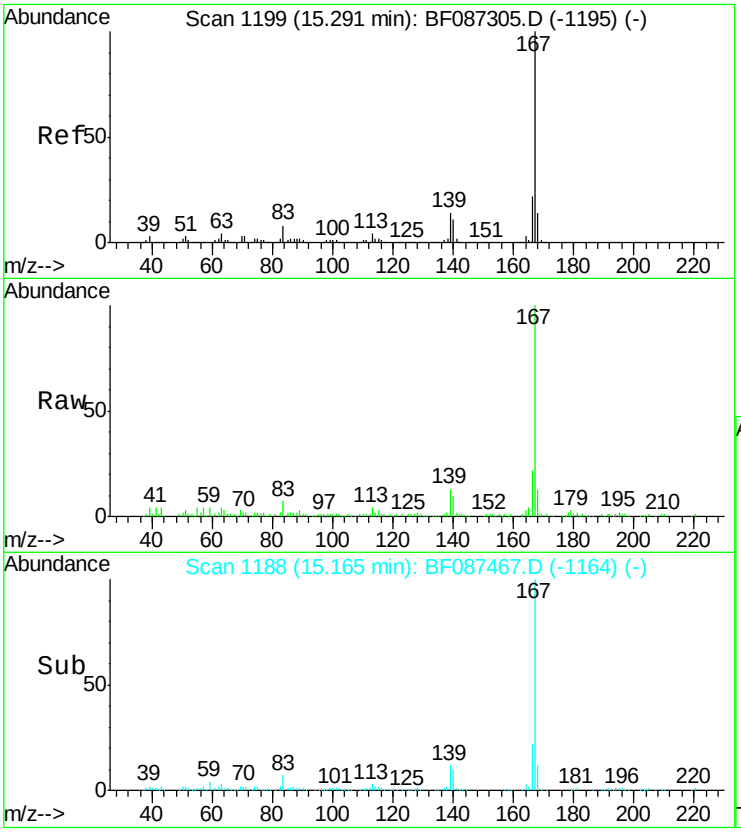


#71
Anthracene
Concen: 12.97 ng
RT: 14.87 min Scan# 1162
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:178 Resp: 244371

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.6	23.4
179	16.4	12.7	19.1

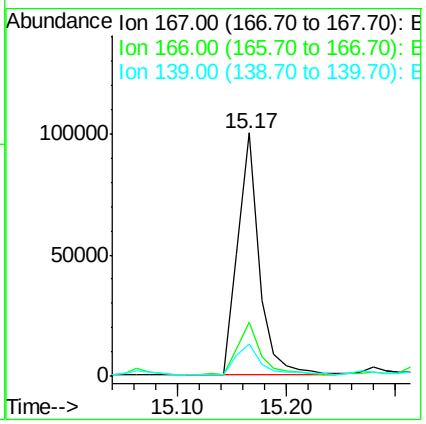




#72
Carbazole
Concen: 8.49 ng
RT: 15.17 min Scan# 1188
Delta R.T. -0.02 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:167 Resp: 136465

Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.7	26.5
139	13.3	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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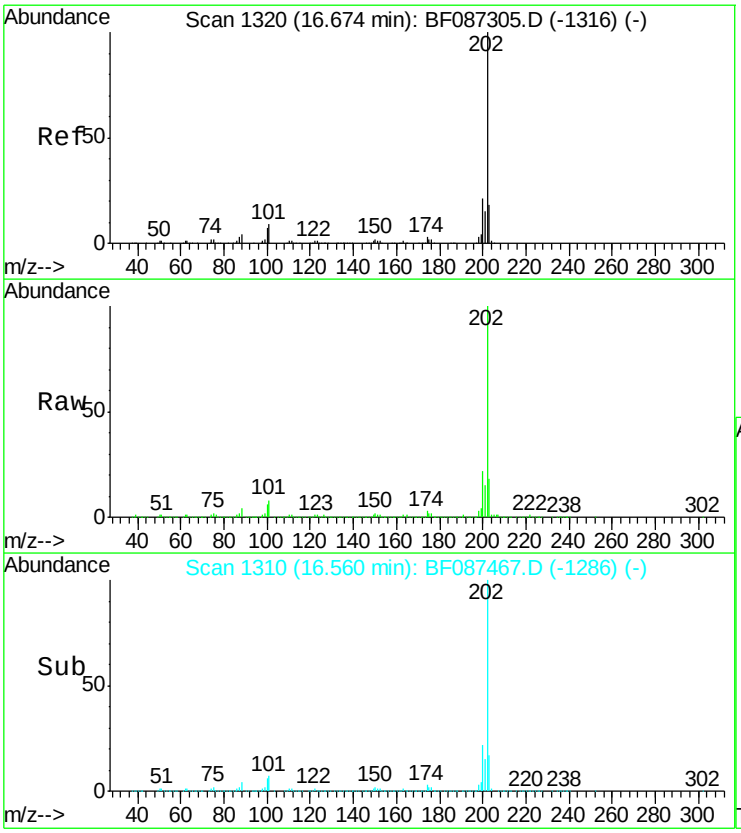
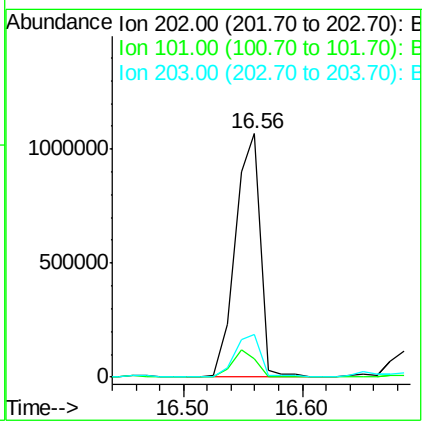
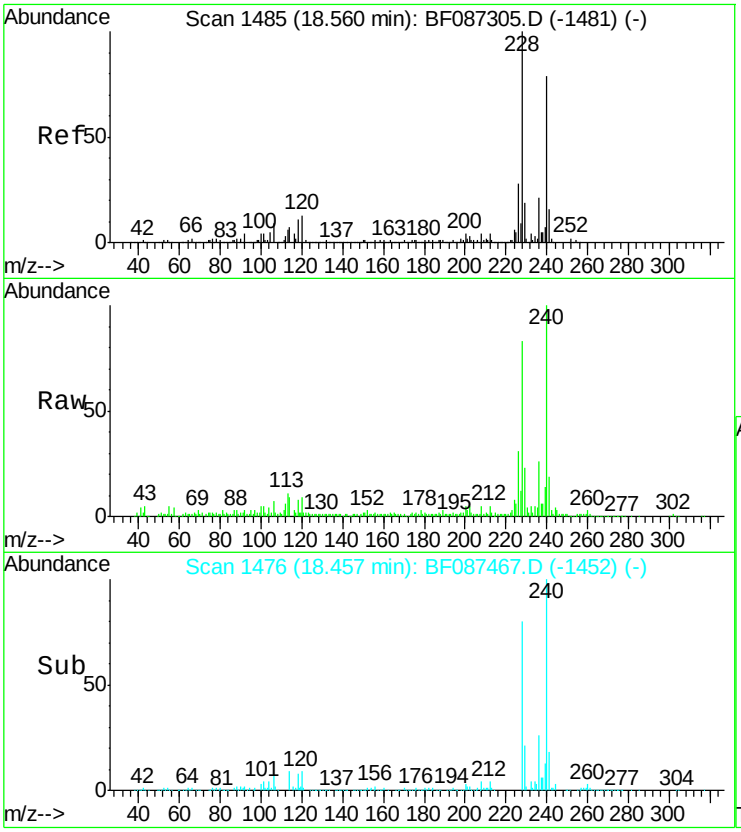


#74
Fluoranthene
Concen: 83.02 ng
RT: 16.56 min Scan# 1310
Delta R.T. -0.02 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:202 Resp: 1553116

Ion	Ratio	Lower	Upper
202	100		
101	7.6	0.0	35.4
203	17.6	0.0	38.1

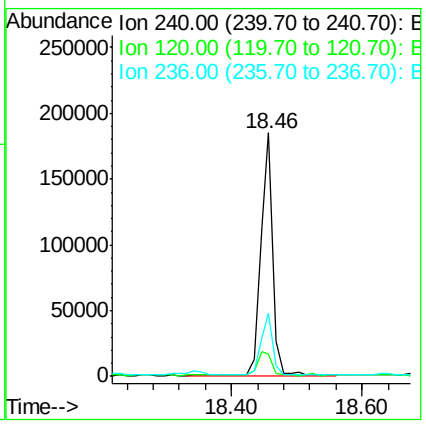




#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.46 min Scan# 1476
Delta R.T. -0.02 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:240 Resp: 241152

Ion	Ratio	Lower	Upper
240	100		
120	9.0	11.2	16.8#
236	26.0	21.2	31.8



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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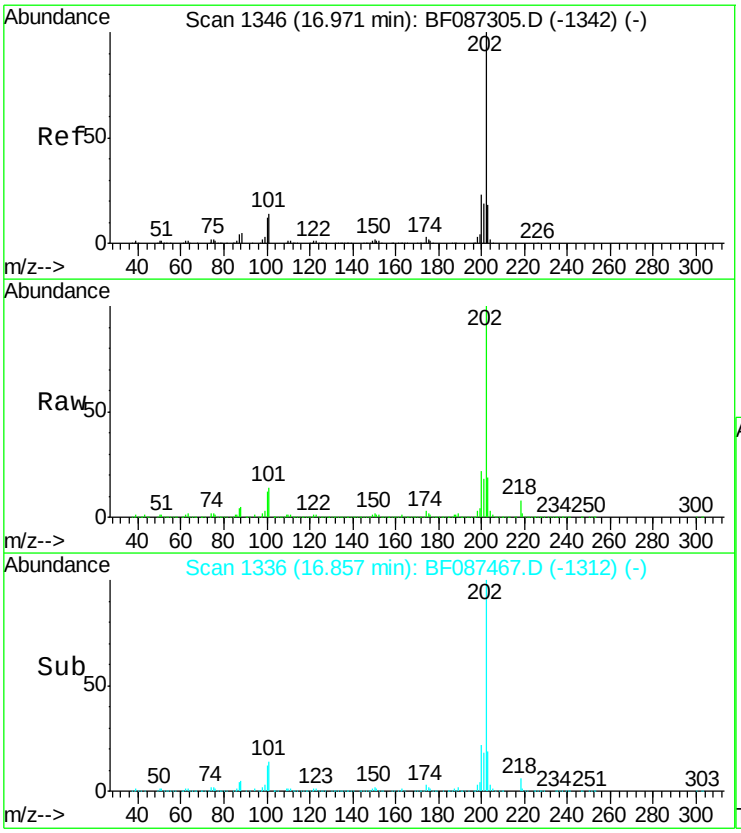
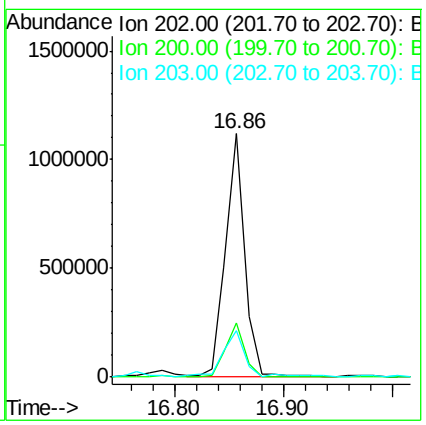
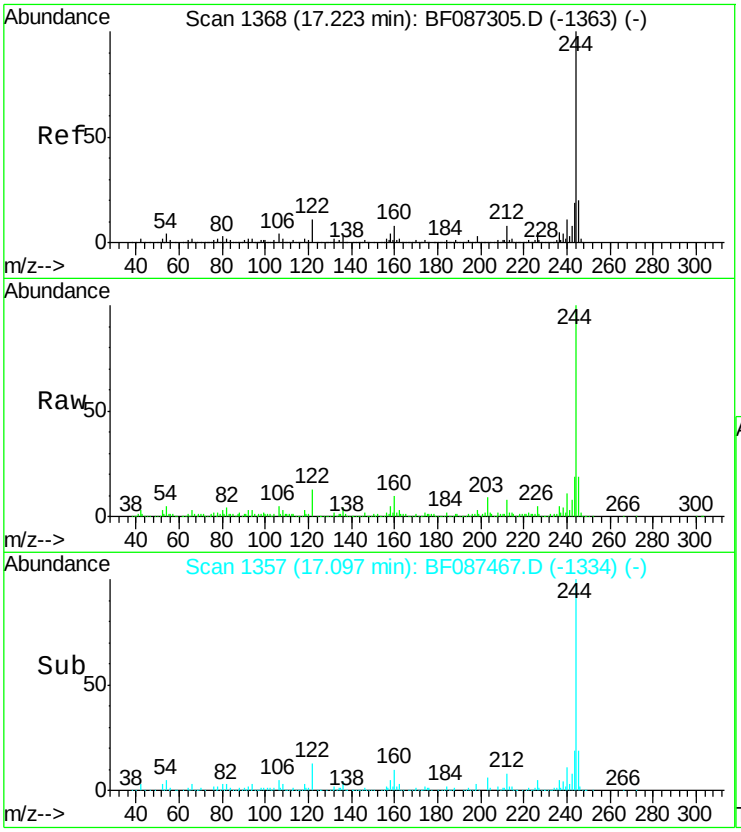


#77
Pyrene
Concen: 77.77 ng
RT: 16.86 min Scan# 1336
Delta R.T. -0.02 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:202 Resp: 1350008

Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.7	26.5
203	19.2	14.2	21.4

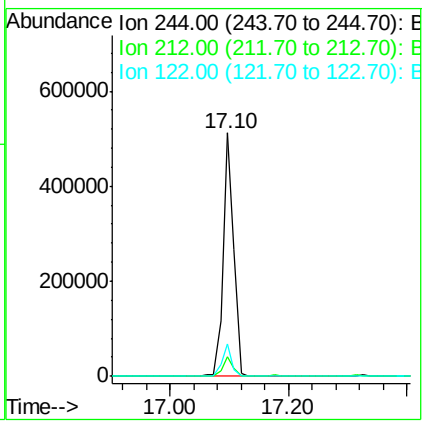




#78
Terphenyl-d14
Concen: 55.47 ng
RT: 17.10 min Scan# 1357
Delta R.T. -0.03 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:244 Resp: 629166

Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.2
122	13.5	12.0	18.0



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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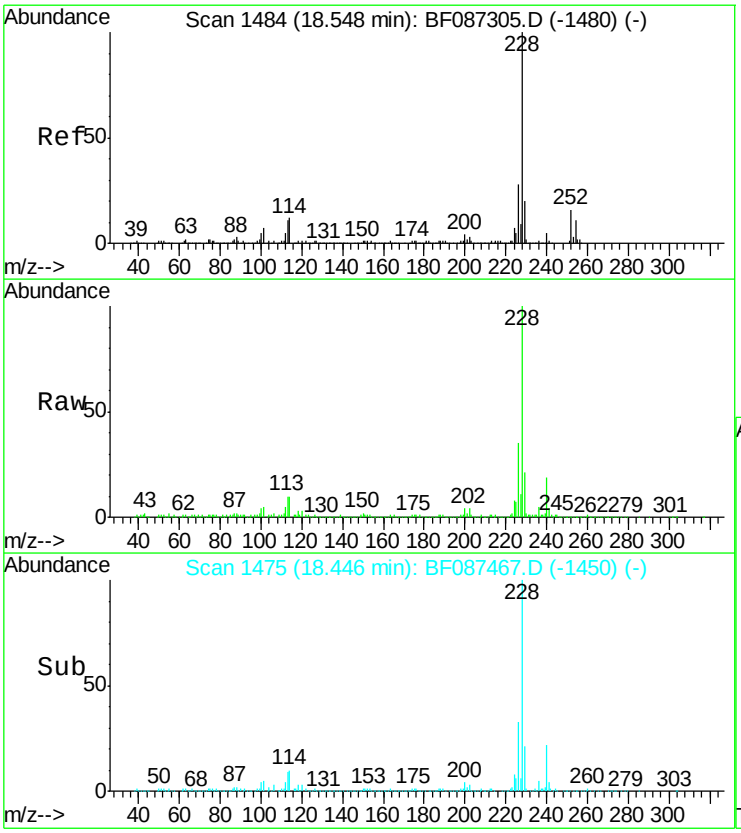
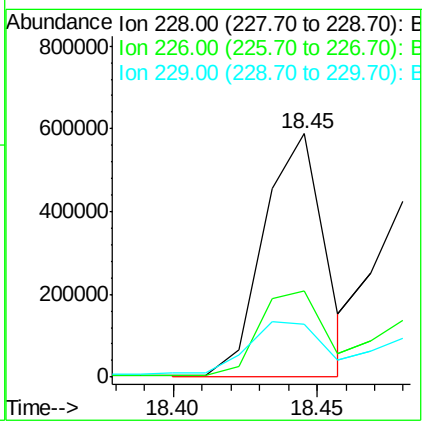
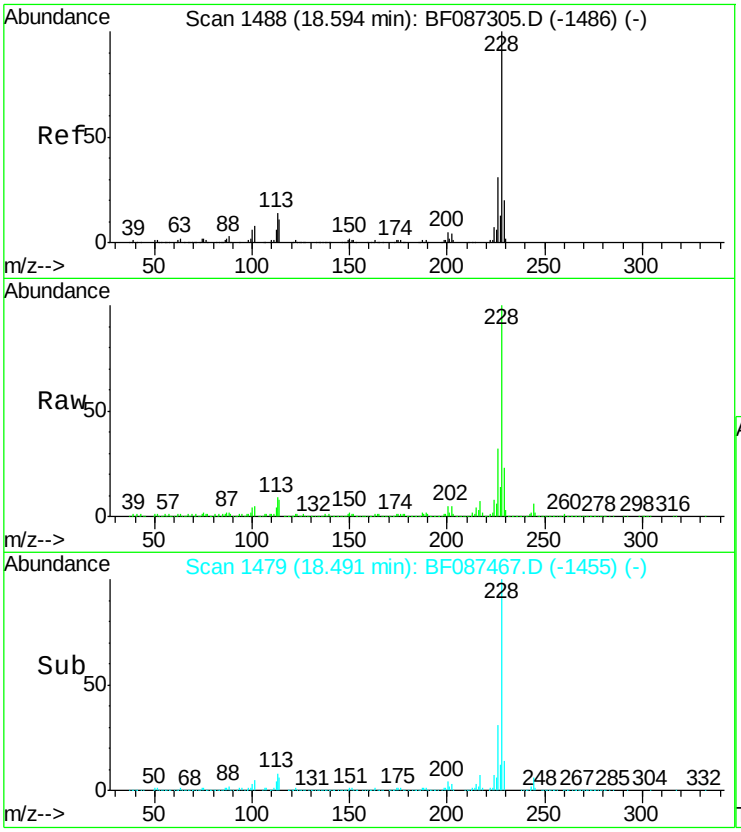


#80
Benzo(a)anthracene
Concen: 63.35 ng m
RT: 18.45 min Scan# 1475
Delta R.T. -0.01 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:228 Resp: 868983

Ion	Ratio	Lower	Upper
228	100		
226	35.3	22.5	33.7#
229	21.5	16.6	25.0

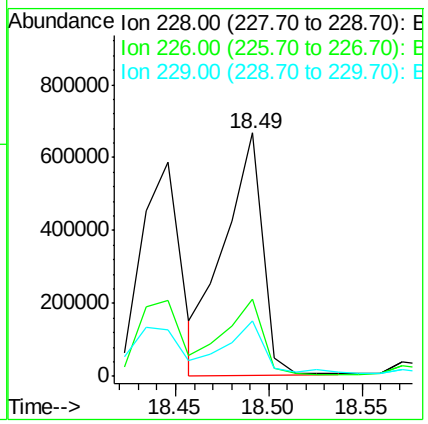




#82
Chrysene
Concen: 70.51 ng
RT: 18.49 min Scan# 1479
Delta R.T. -0.02 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:228 Resp: 959930

Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.4	36.6
229	22.7	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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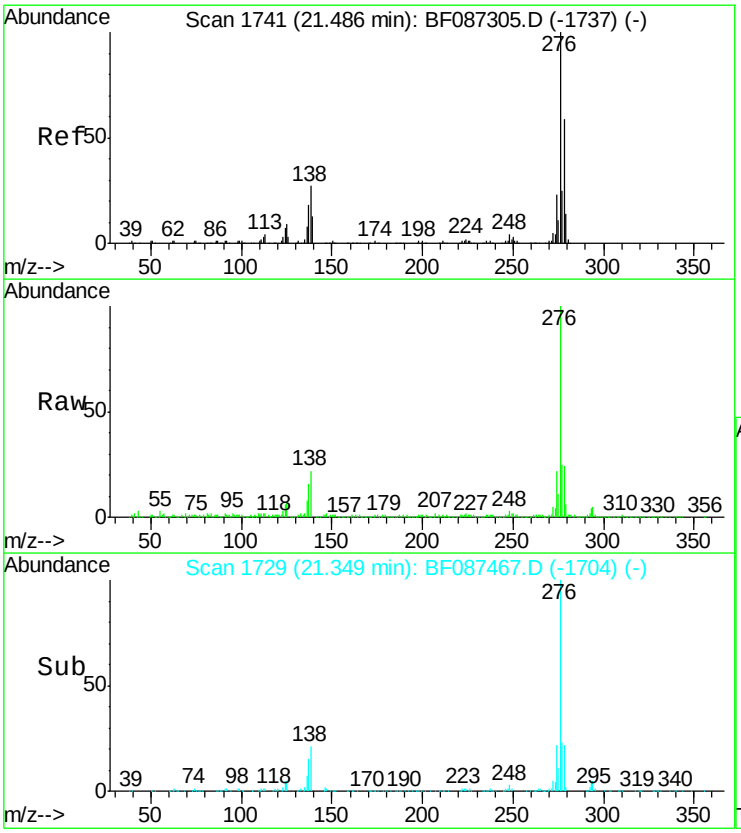
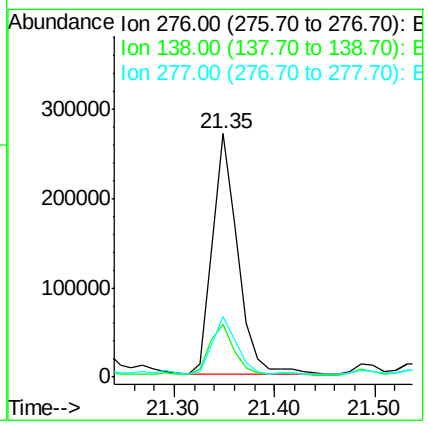
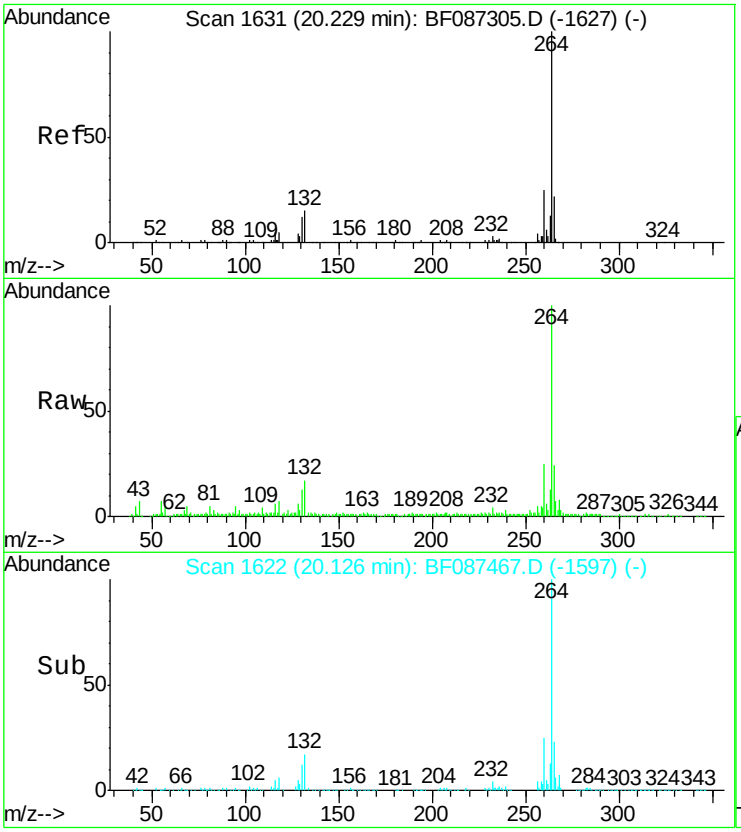


#85
Indeno(1,2,3-cd)pyrene
Concen: 43.07 ng
RT: 21.35 min Scan# 1729
Delta R.T. -0.01 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:276 Resp: 470019

Ion	Ratio	Lower	Upper
276	100		
138	20.5	25.6	38.4#
277	23.6	20.5	30.7

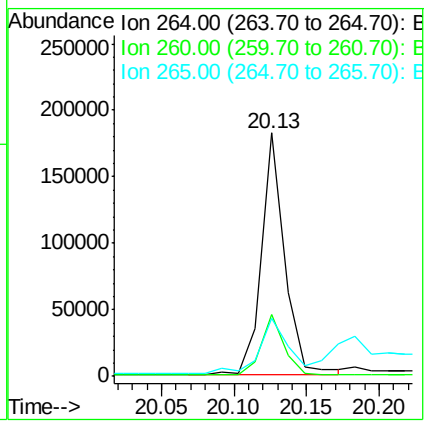




#86
Perylene-d12
Concen: 20.00 ng
RT: 20.13 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:264 Resp: 204635

Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.5	29.3
265	23.6	17.3	25.9



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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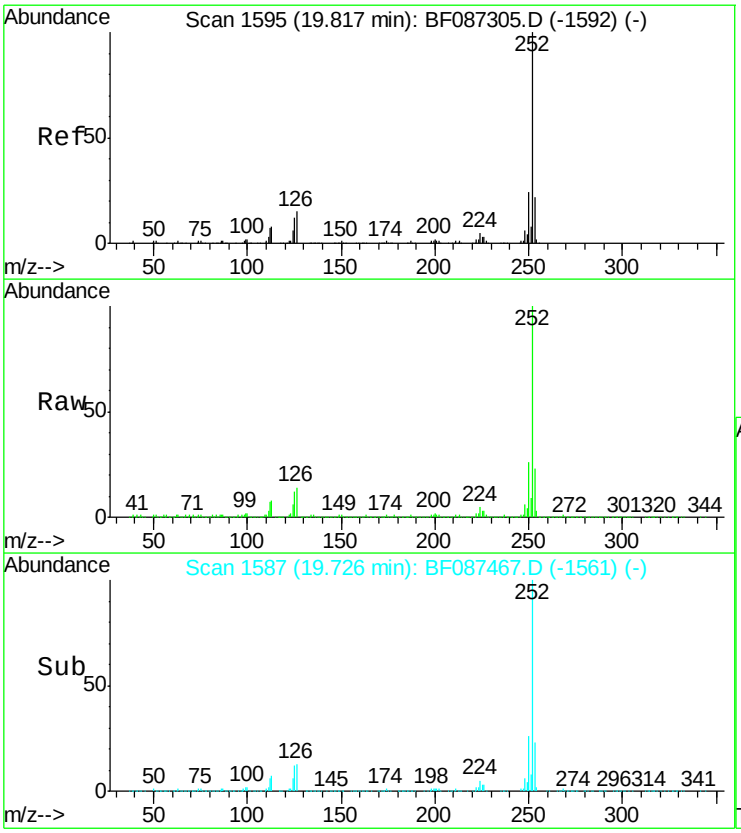
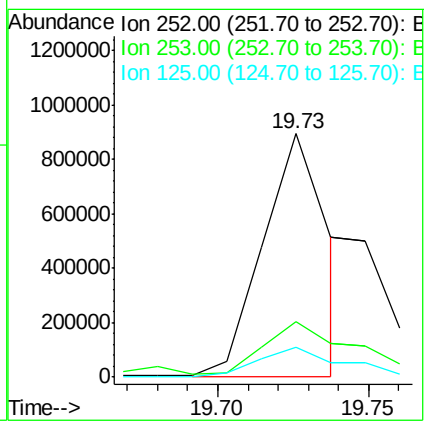
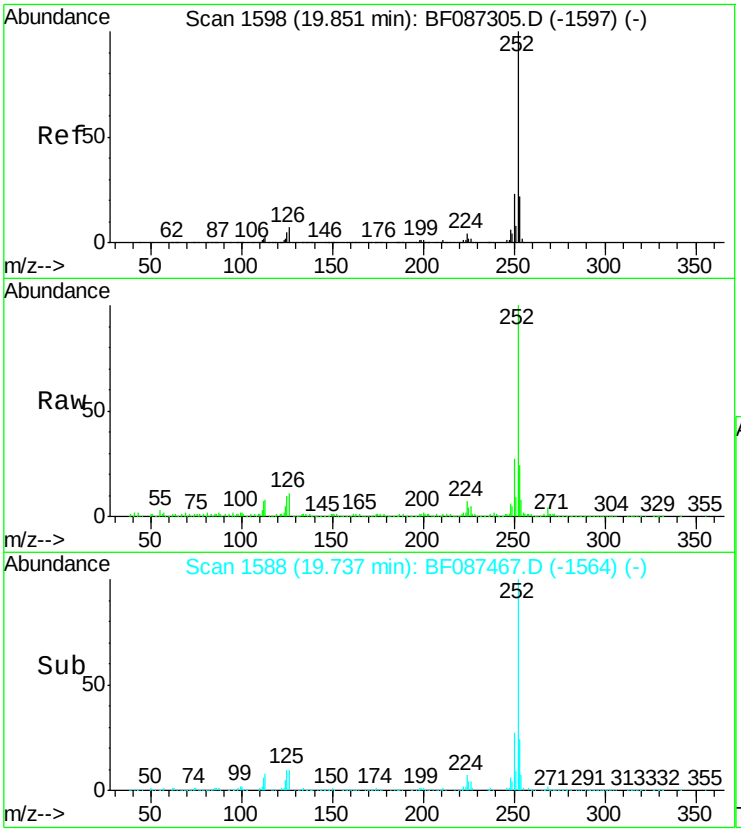


#87
Benzo(b)fluoranthene
Concen: 102.42 ng m
RT: 19.73 min Scan# 1587
Delta R.T. 0.00 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:252 Resp: 1335002

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	12.1	11.4	17.0

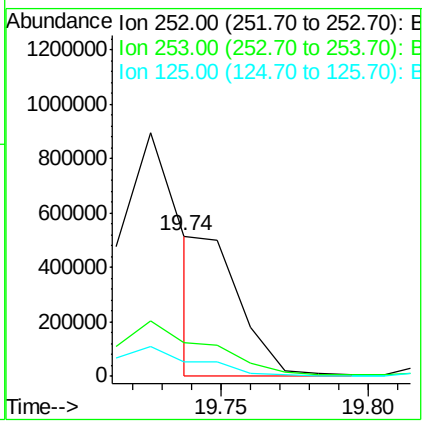




#88
Benzo(k)fluoranthene
Concen: 44.10 ng m
RT: 19.74 min Scan# 1588
Delta R.T. -0.02 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:252 Resp: 494763

Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	10.4	9.1	13.7



Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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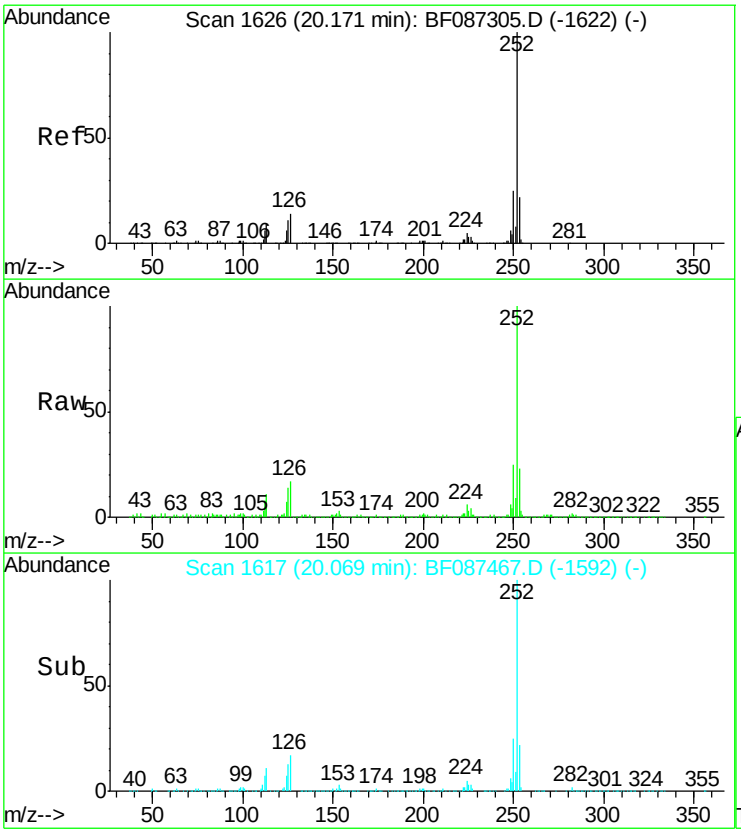
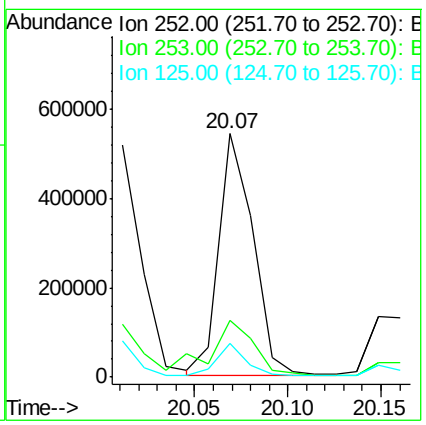
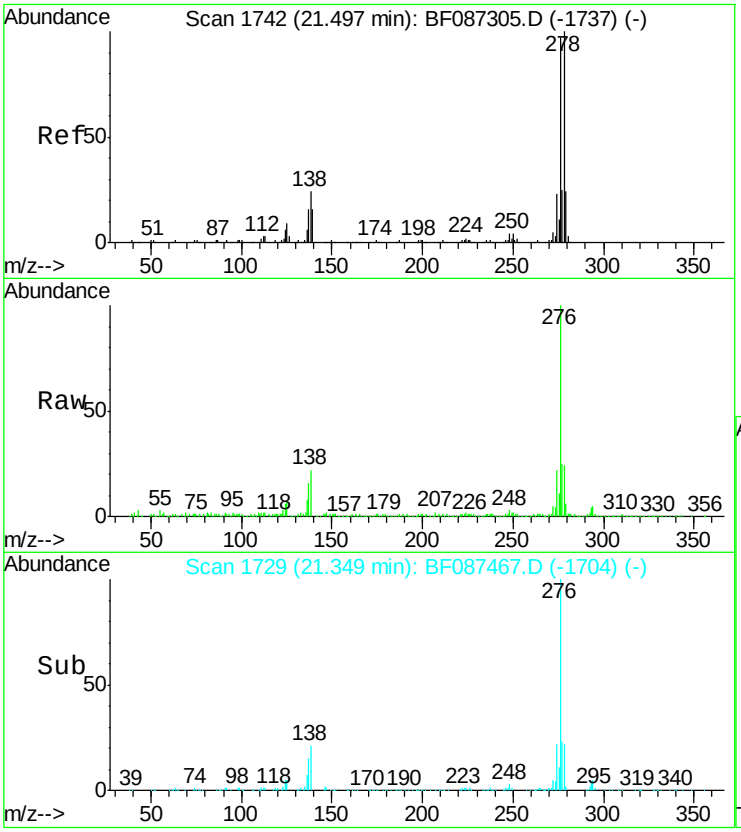


#89
Benzo(a)pyrene
Concen: 61.75 ng
RT: 20.07 min Scan# 1617
Delta R.T. -0.01 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:252 Resp: 696153

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	13.7	9.0	13.6#





#90
Dibenzo(a,h)anthracene
Concen: 11.58 ng m
RT: 21.35 min Scan# 1729
Delta R.T. -0.01 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:278 Resp: 111334

Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	25.6	19.6	29.4

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1705(0-4)

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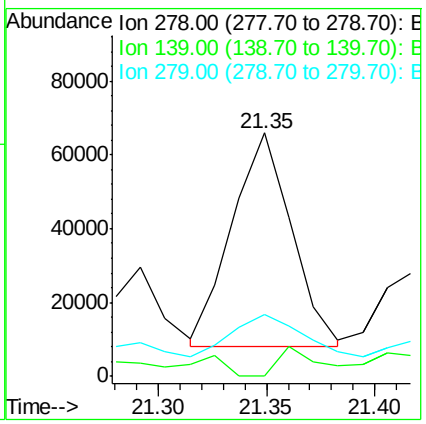

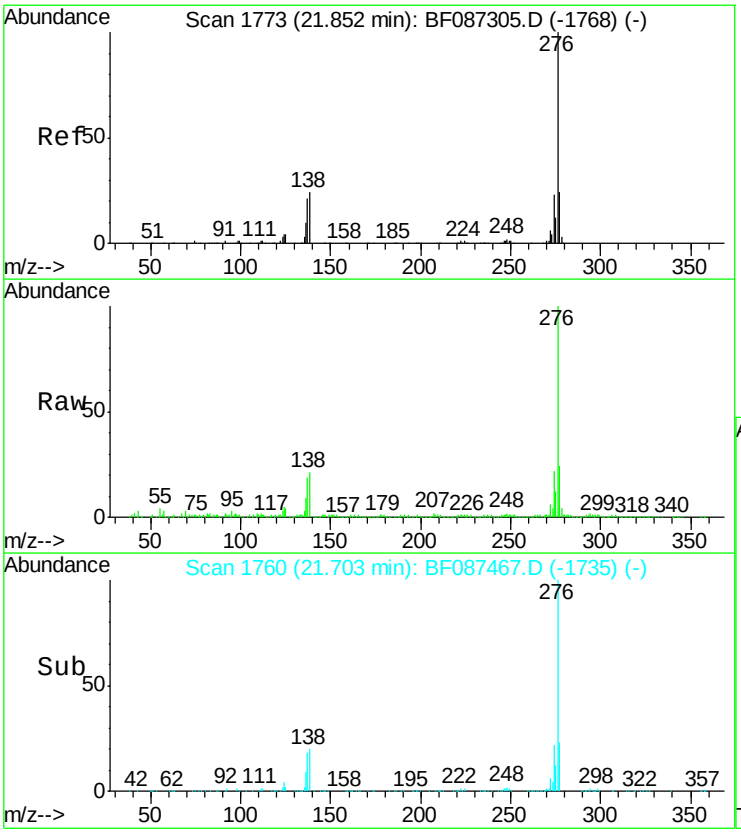

#91
Benzo(g,h,i)perylene
Concen: 40.33 ng
RT: 21.70 min Scan# 1760
Delta R.T. -0.01 min
Lab File: BF087467.D
Acq: 28 May 2016 4:55

Tgt Ion:276 Resp: 382581

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.6	29.4
138	21.1	23.6	35.4#