Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021816\
Data File : BG020956.D
Acq On : 19 Feb 2016 4:20
Operator : SJ/UM
Sample : H1445-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
UMANGI
2/19/2016 3:24:53 PM

Quant Time: Feb 19 07:52:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 11 15:26:53 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	20457	20.00	ng		0.00
21) Naphthalene-d8	11.08	136	108481	20.00	ng		-0.02
38) Acenaphthene-d10	14.87	164	65521	20.00	ng		-0.02
63) Phenanthrene-d10	17.61	188	132887	20.00	ng		0.00
75) Chrysene-d12	21.88	240	116818	20.00	ng		-0.03
86) Perylene-d12	25.25	264	113412	20.00	ng		-0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.79	112	215959	177.78	ng		0.00
7) Phenol-d6	7.40	99	316301	178.15	ng		0.00
23) Nitrobenzene-d5	9.43	82	168611	102.20	ng		0.00
41) 2,4,6-Tribromophenol	16.35	330	114031	176.98	ng		0.00
44) 2-Fluorobiphenyl	13.50	172	485928	104.18	ng		0.00
78) Terphenyl-d14	20.19	244	538812	107.60	ng		-0.02
Target Compounds							Qvalue
49) Dimethylphthalate	14.31	163	56112	10.95	ng		99
70) Phenanthrene	17.65	178	32723	4.33	ng		96
74) Fluoranthene	19.64	202	44766	5.48	ng		98
77) Pyrene	20.00	202	40830	5.30	ng		99
80) Benzo(a)anthracene	21.86	228	20710	2.97	ng		97
82) Chrysene	21.93	228	17566	2.68	ng		93
87) Benzo(b)fluoranthene	24.18	252	21563	3.11	ng	#	92
89) Benzo(a)pyrene	25.08	252	16400	2.48	ng	#	92

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

Quantitation Report (LSC Reviewed)

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Misc :
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Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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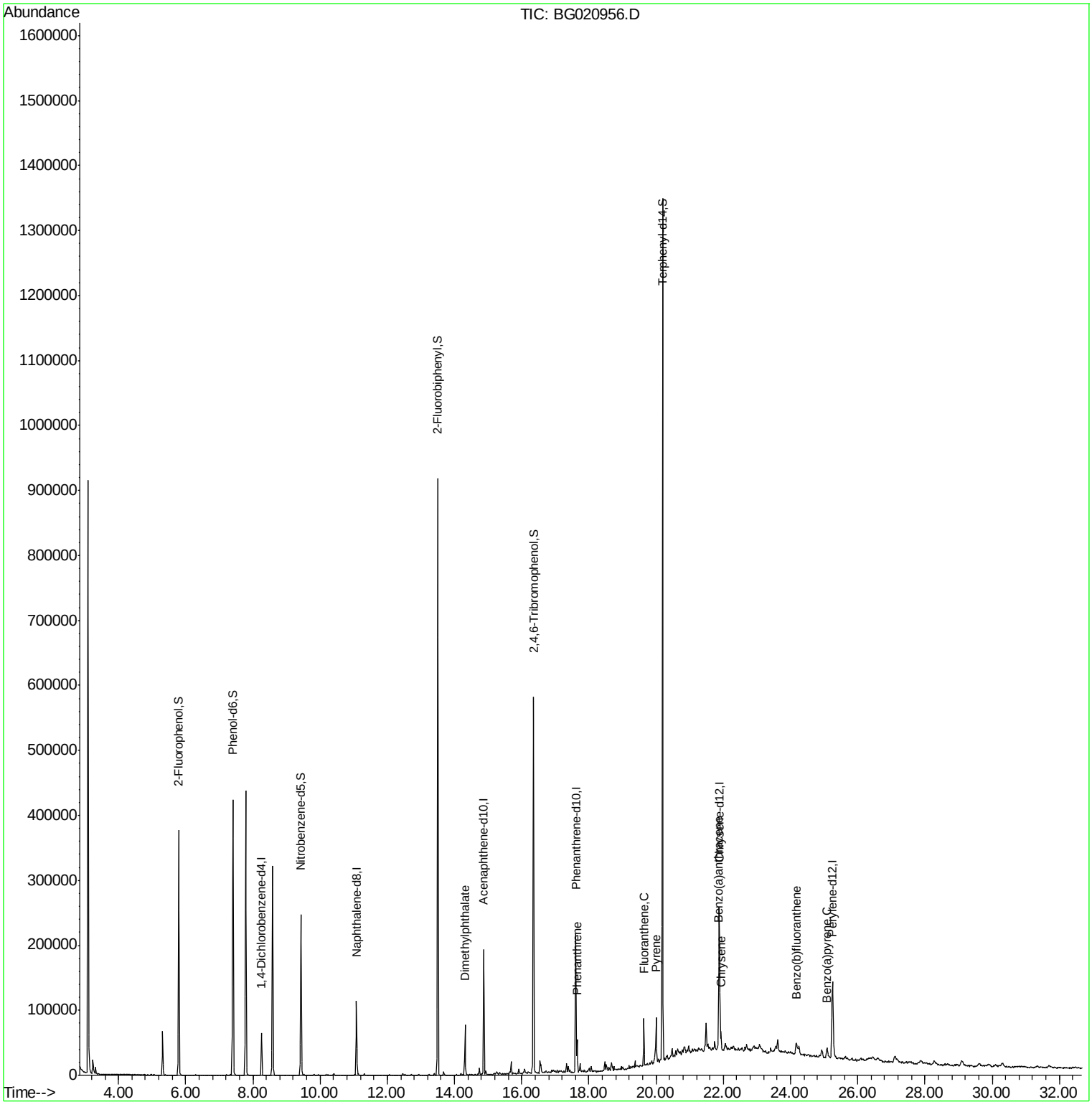
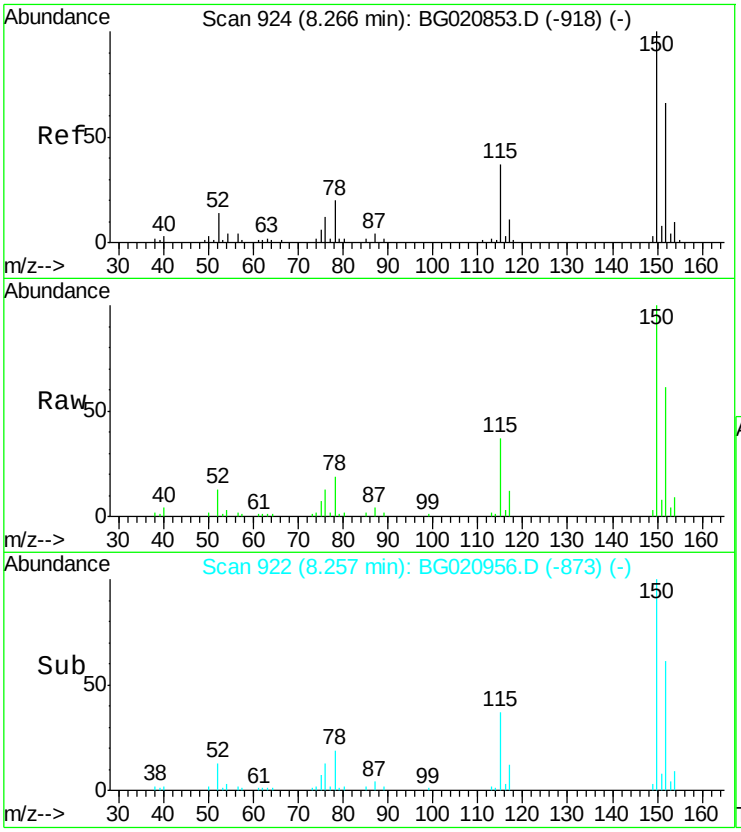
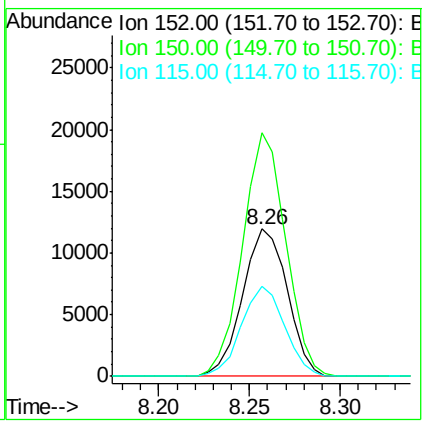




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.26 min Scan# 922
Delta R.T. -0.01 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:152 Resp: 20457

Ion	Ratio	Lower	Upper
152	100		
150	165.3	122.0	183.0
115	60.7	45.2	67.8



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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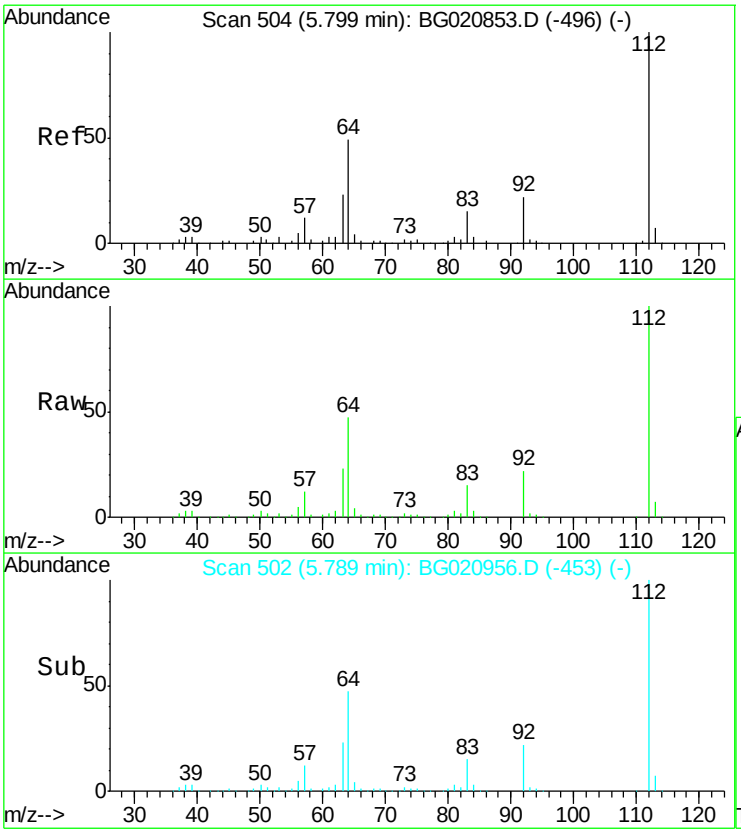
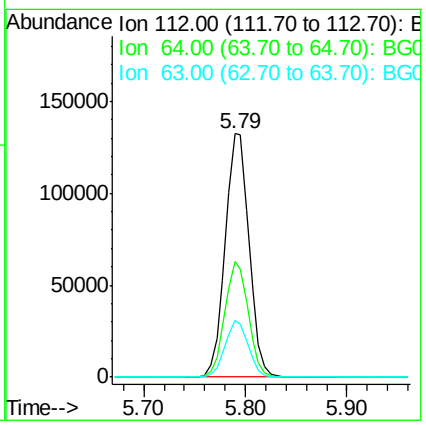
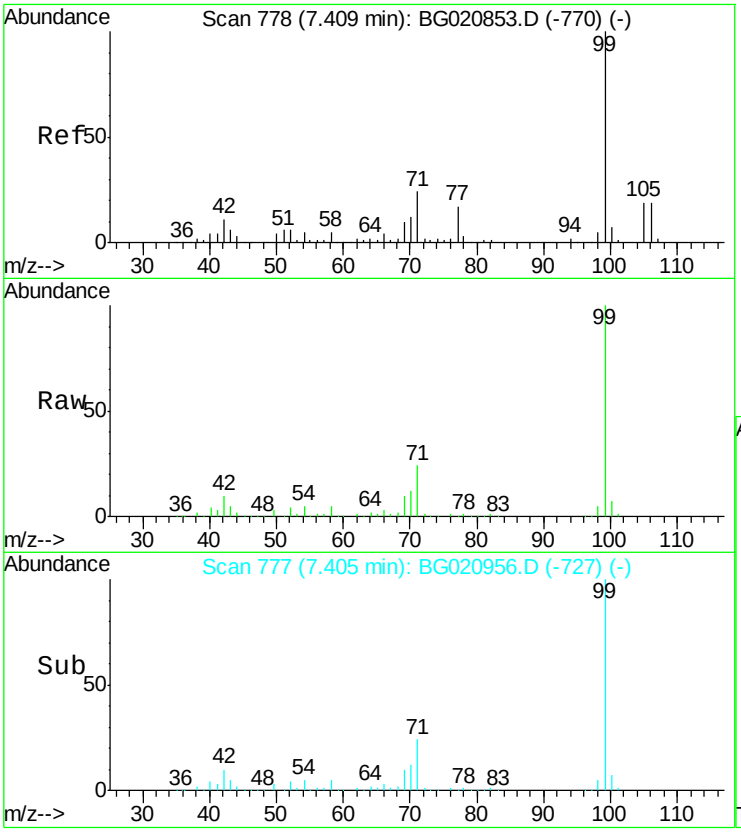


#5
2-Fluorophenol
Concen: 177.78 ng
RT: 5.79 min Scan# 502
Delta R.T. -0.01 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:112 Resp: 215959

Ion	Ratio	Lower	Upper
112	100		
64	47.3	39.3	58.9
63	23.2	18.2	27.4

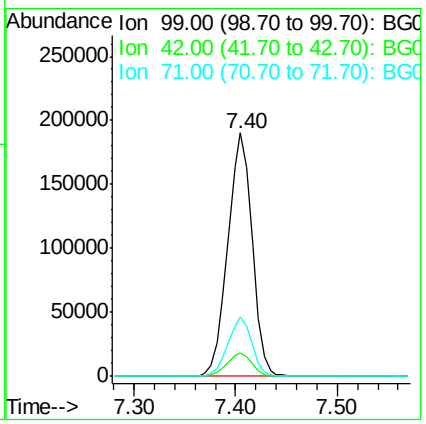




#7
Phenol-d6
Concen: 178.15 ng
RT: 7.40 min Scan# 777
Delta R.T. -0.00 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion: 99 Resp: 316301

Ion	Ratio	Lower	Upper
99	100		
42	9.6	8.4	12.6
71	24.3	19.4	29.0



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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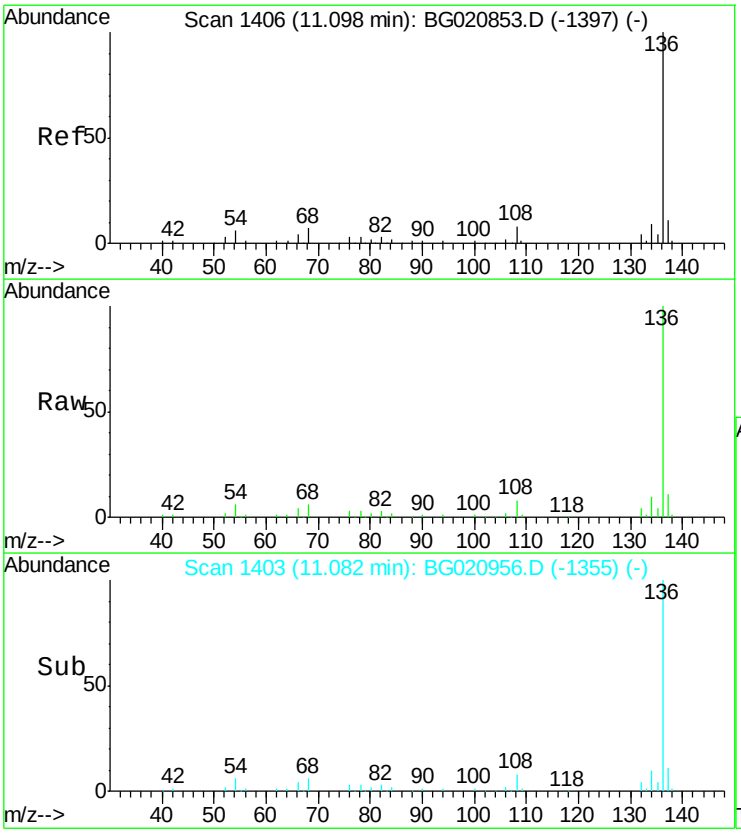
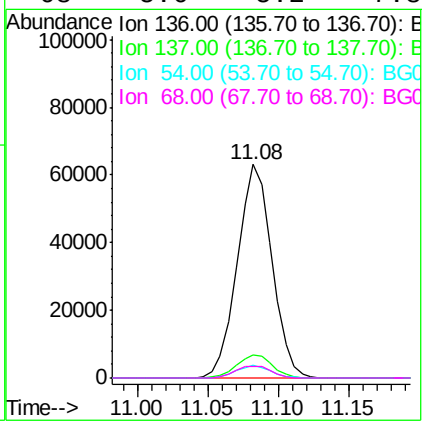
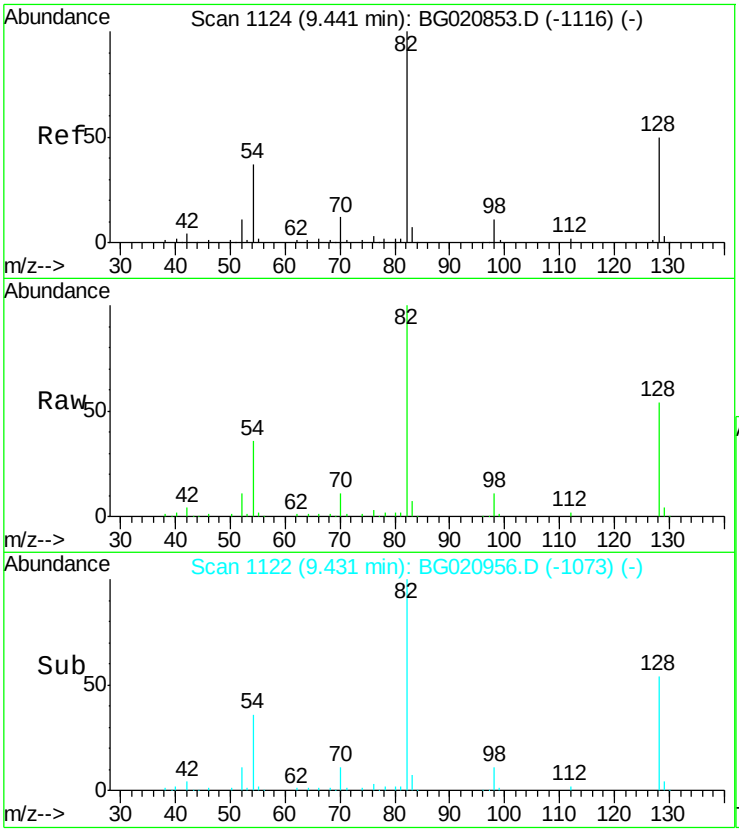


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 11.08 min Scan# 1403
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:136 Resp: 108481

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	5.9	5.0	7.4
68	5.6	5.2	7.8

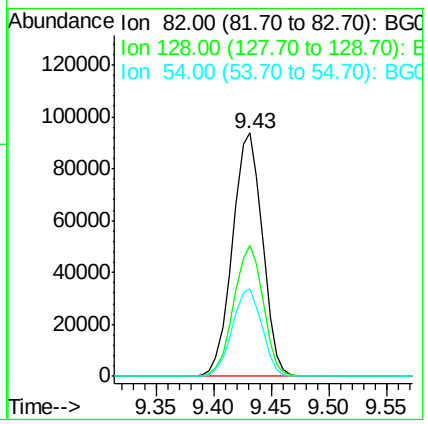




#23
Nitrobenzene-d5
Concen: 102.20 ng
RT: 9.43 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion: 82 Resp: 168611

Ion	Ratio	Lower	Upper
82	100		
128	53.9	40.1	60.1
54	35.8	29.5	44.3



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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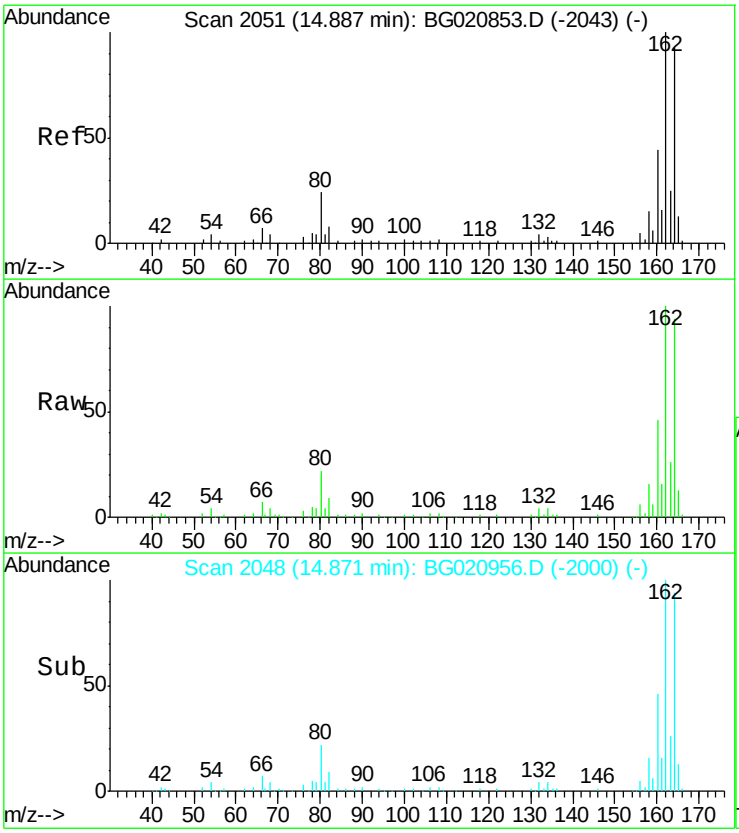
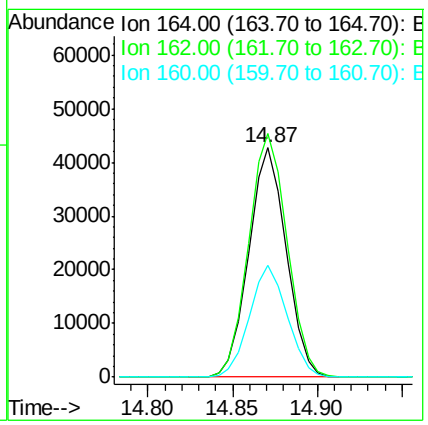
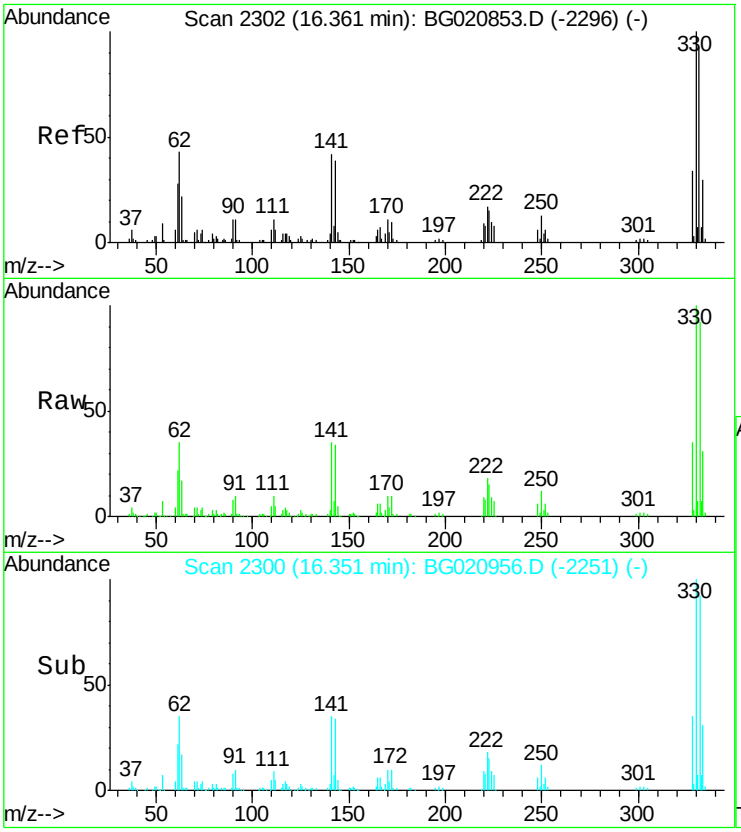


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.87 min Scan# 2048
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:164 Resp: 65521

Ion	Ratio	Lower	Upper
164	100		
162	106.3	85.7	128.5
160	48.6	37.4	56.0

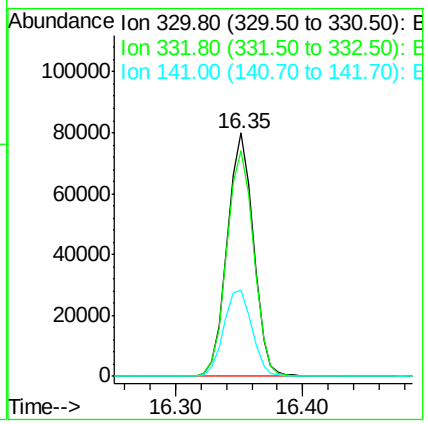




#41
2,4,6-Tribromophenol
Concen: 176.98 ng
RT: 16.35 min Scan# 2300
Delta R.T. -0.01 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:330 Resp: 114031

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.1	114.1
141	38.2	32.0	48.0



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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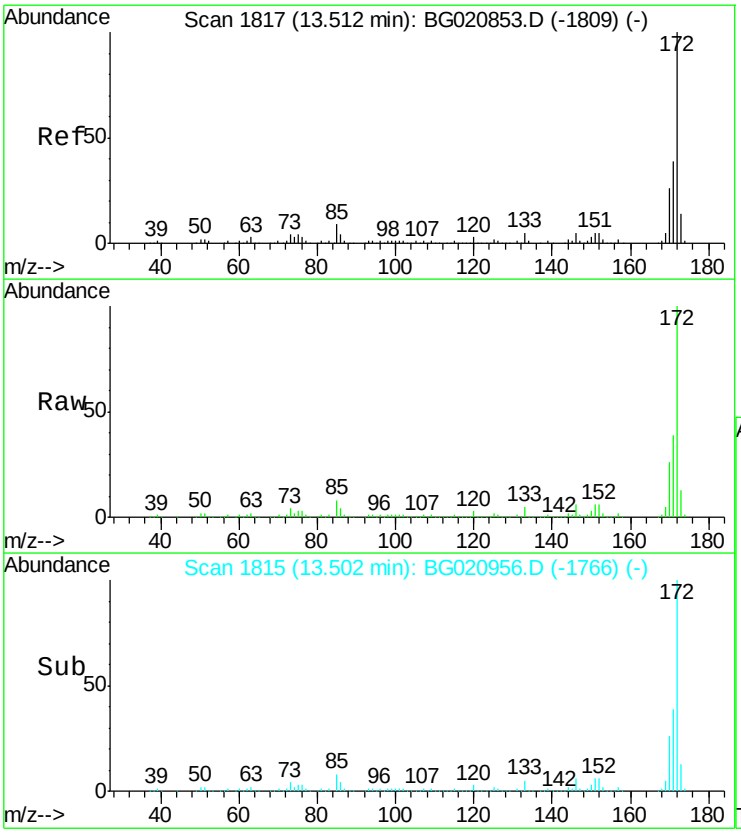
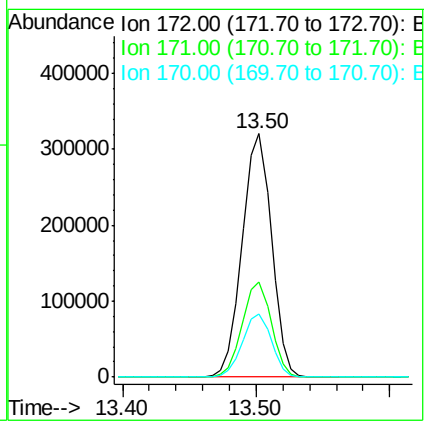
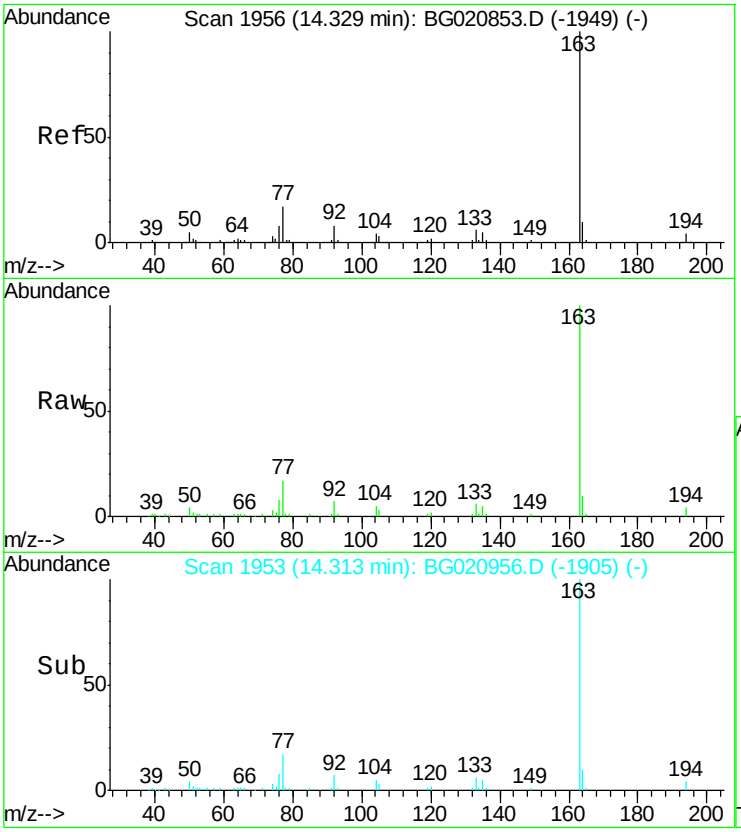


#44
2-Fluorobiphenyl
Concen: 104.18 ng
RT: 13.50 min Scan# 1815
Delta R.T. -0.01 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:172 Resp: 485928

Ion	Ratio	Lower	Upper
172	100		
171	39.2	31.2	46.8
170	26.2	20.6	30.8

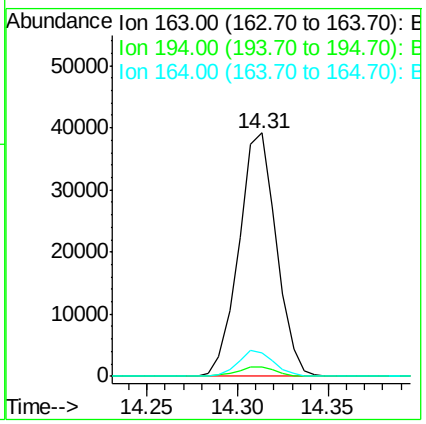




#49
Dimethylphthalate
Concen: 10.95 ng
RT: 14.31 min Scan# 1953
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:163 Resp: 56112

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	9.9	8.3	12.5



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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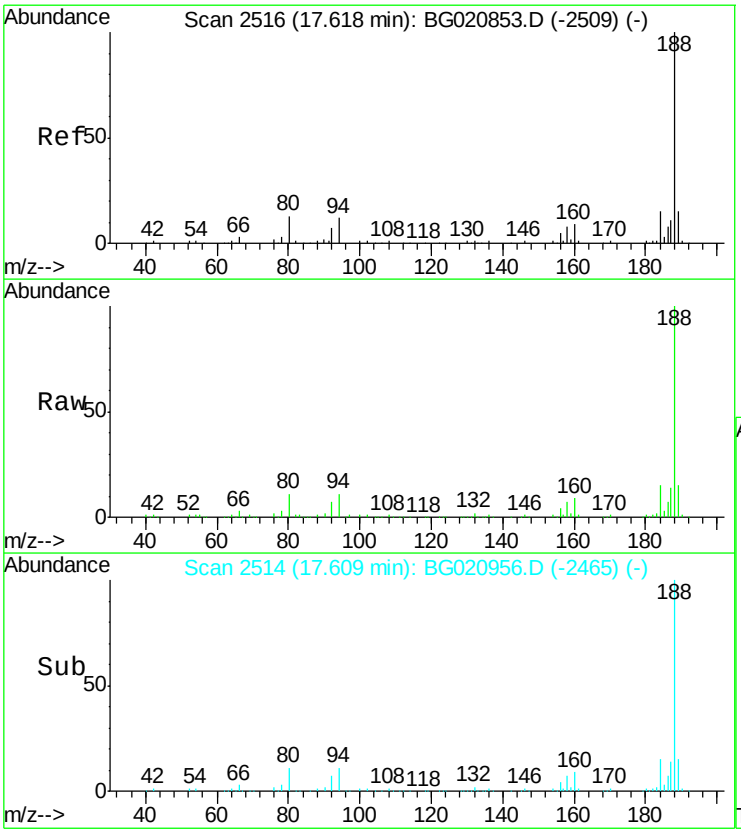
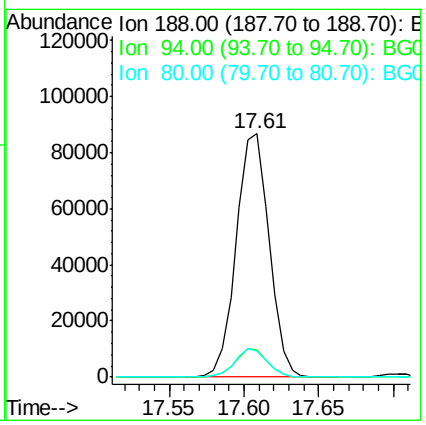
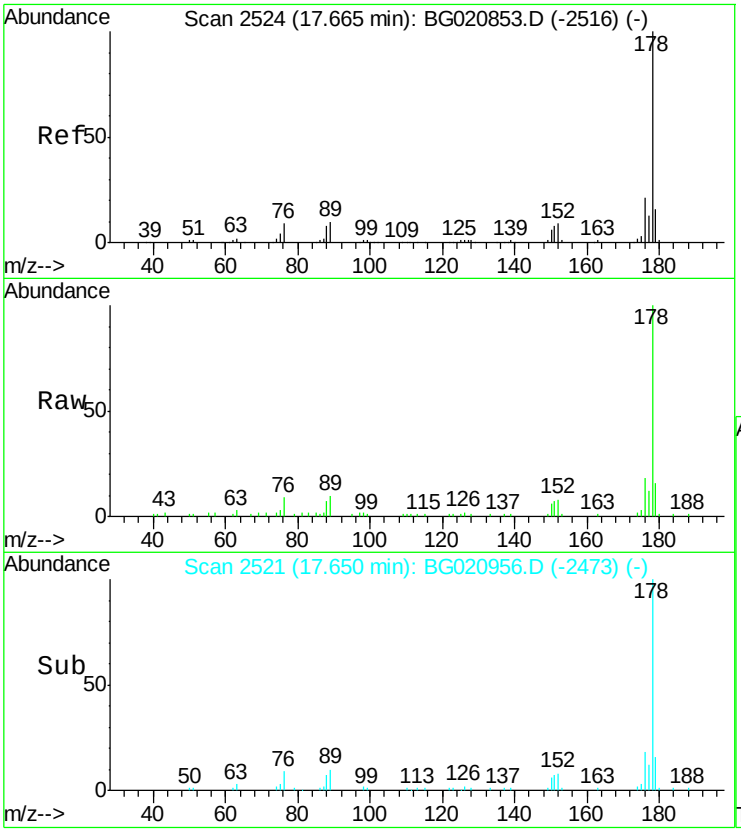


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.61 min Scan# 2514
Delta R.T. -0.01 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:188 Resp: 132887

Ion	Ratio	Lower	Upper
188	100		
94	11.3	9.4	14.0
80	10.6	10.2	15.4

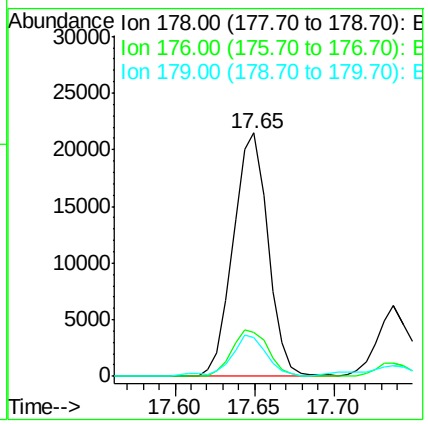




#70
Phenanthrene
Concen: 4.33 ng
RT: 17.65 min Scan# 2521
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:178 Resp: 32723

Ion	Ratio	Lower	Upper
178	100		
176	18.1	16.8	25.2
179	16.1	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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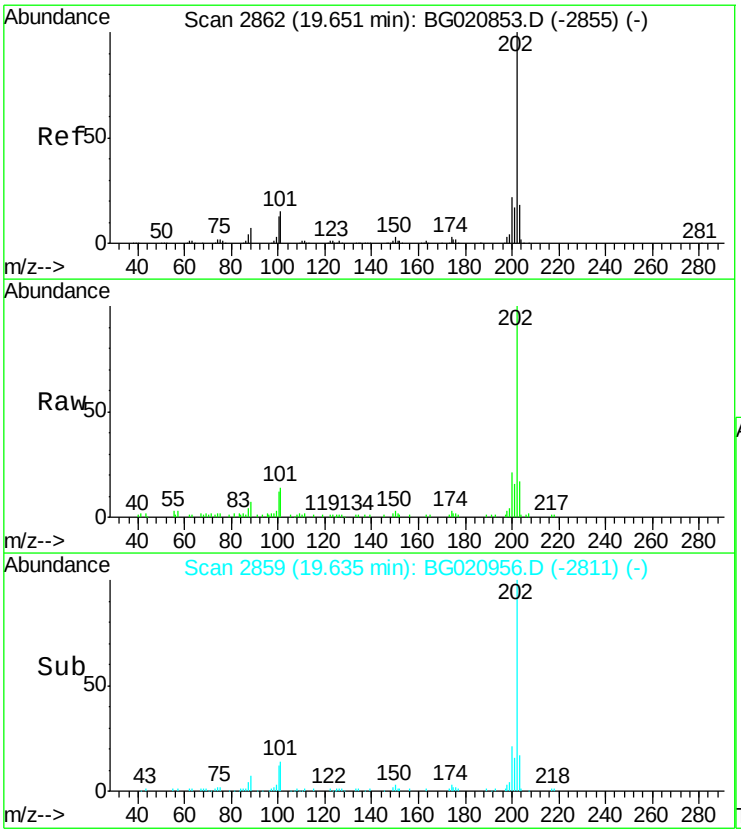
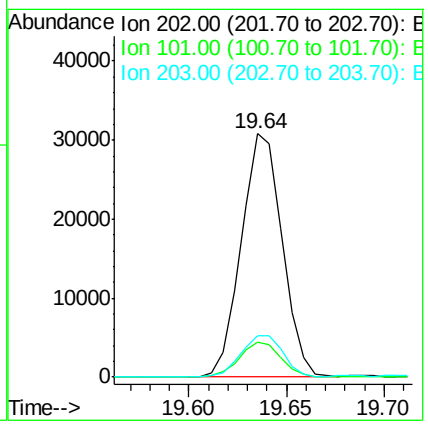
2/19/2016 3:24:53 PM

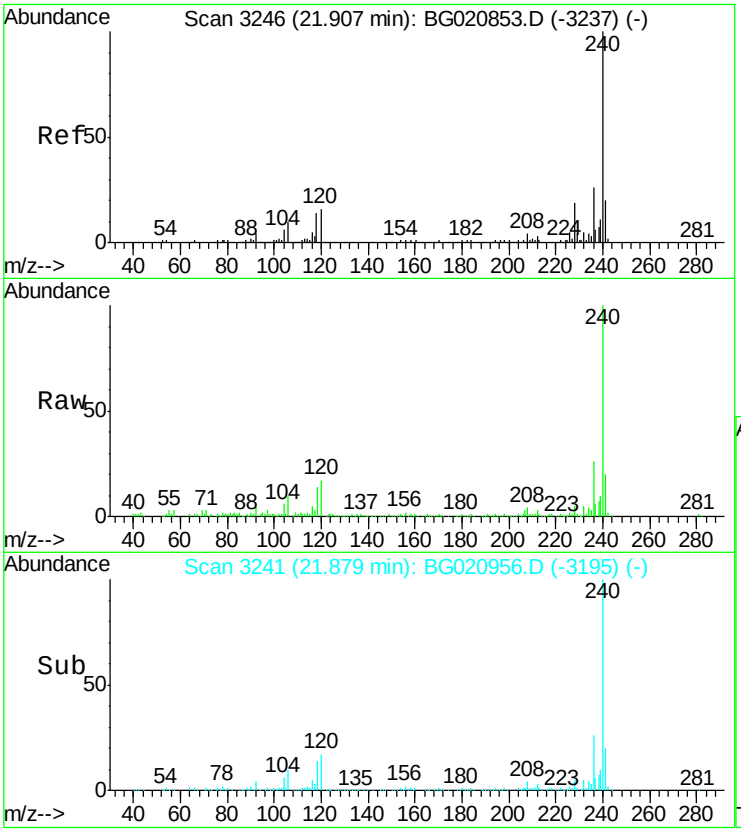


#74
Fluoranthene
Concen: 5.48 ng
RT: 19.64 min Scan# 2859
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:202 Resp: 44766

Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	35.3
203	16.9	0.0	37.8

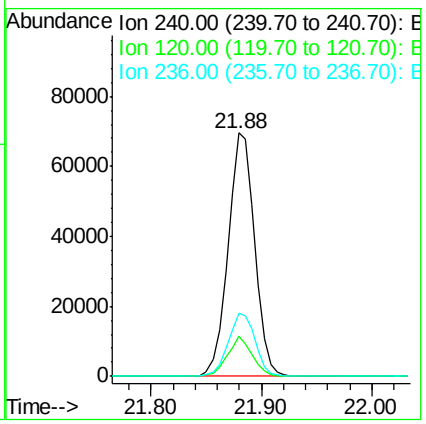




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.88 min Scan# 3241
Delta R.T. -0.03 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:240 Resp: 116818

Ion	Ratio	Lower	Upper
240	100		
120	16.5	13.0	19.4
236	25.8	21.0	31.4



Instrument :
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ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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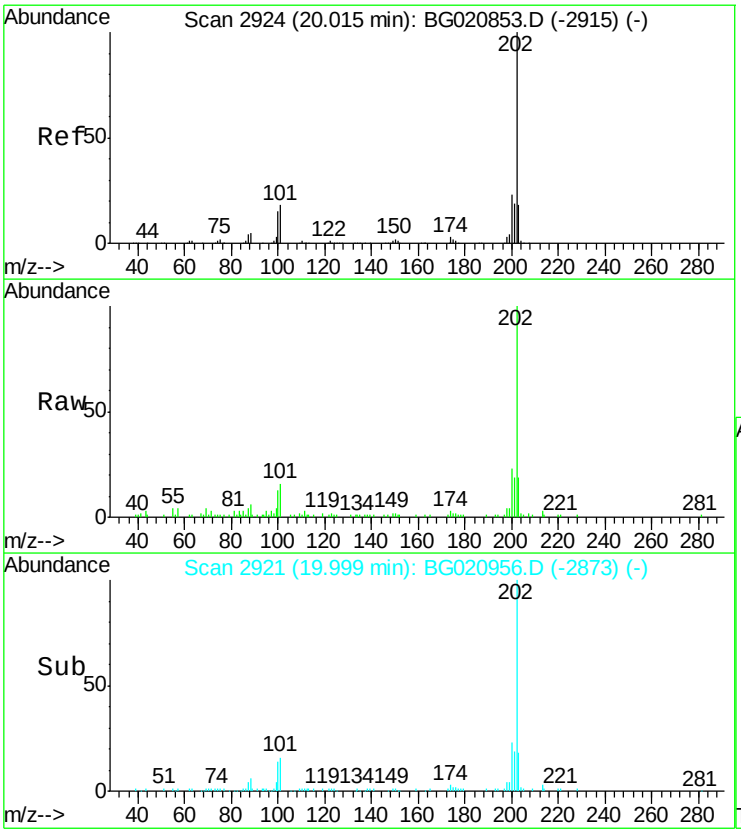
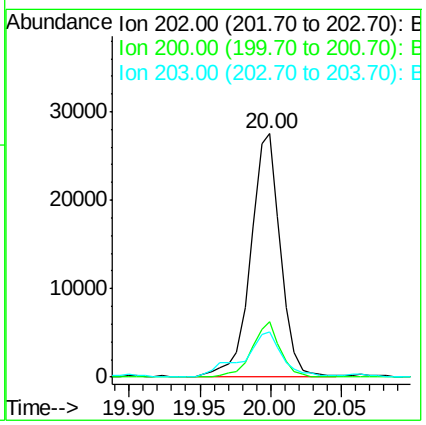
2/19/2016 3:24:53 PM

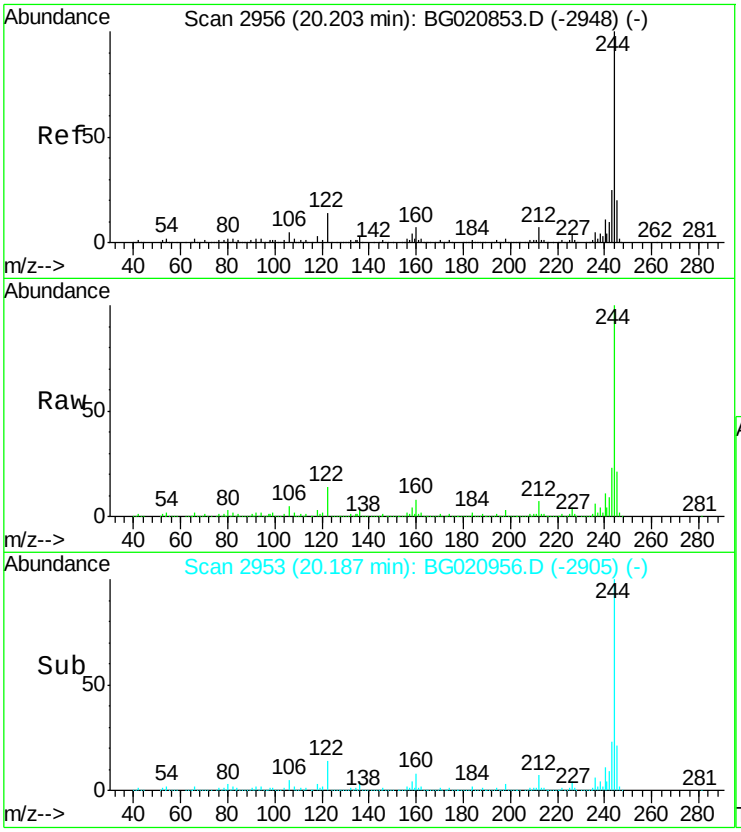


#77
Pyrene
Concen: 5.30 ng
RT: 20.00 min Scan# 2921
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:202 Resp: 40830

Ion	Ratio	Lower	Upper
202	100		
200	22.6	18.5	27.7
203	18.6	14.3	21.5

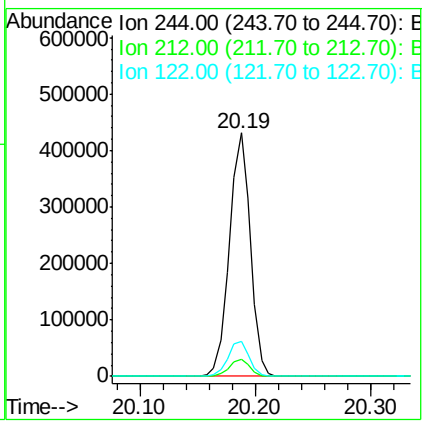




#78
Terphenyl-d14
Concen: 107.60 ng
RT: 20.19 min Scan# 2953
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:244 Resp: 538812

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	14.4	11.4	17.2



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
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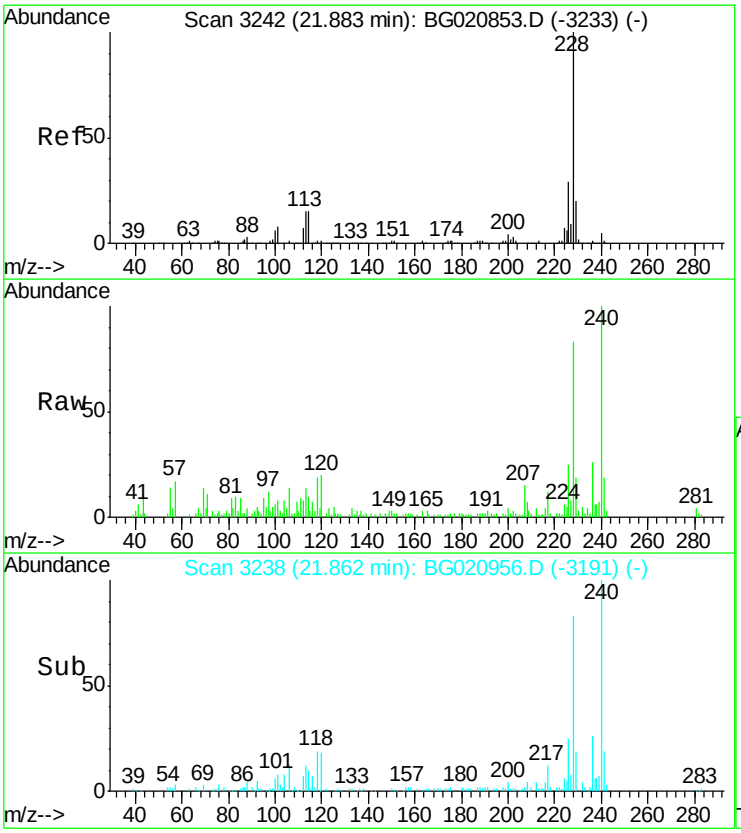
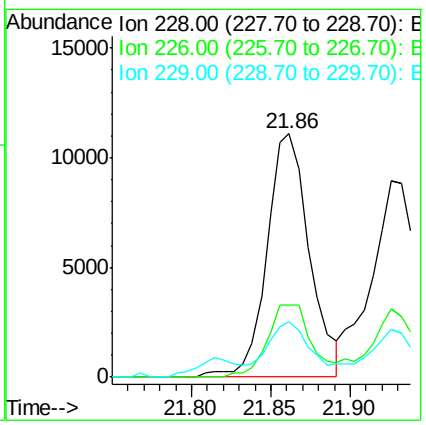
2/19/2016 3:24:53 PM

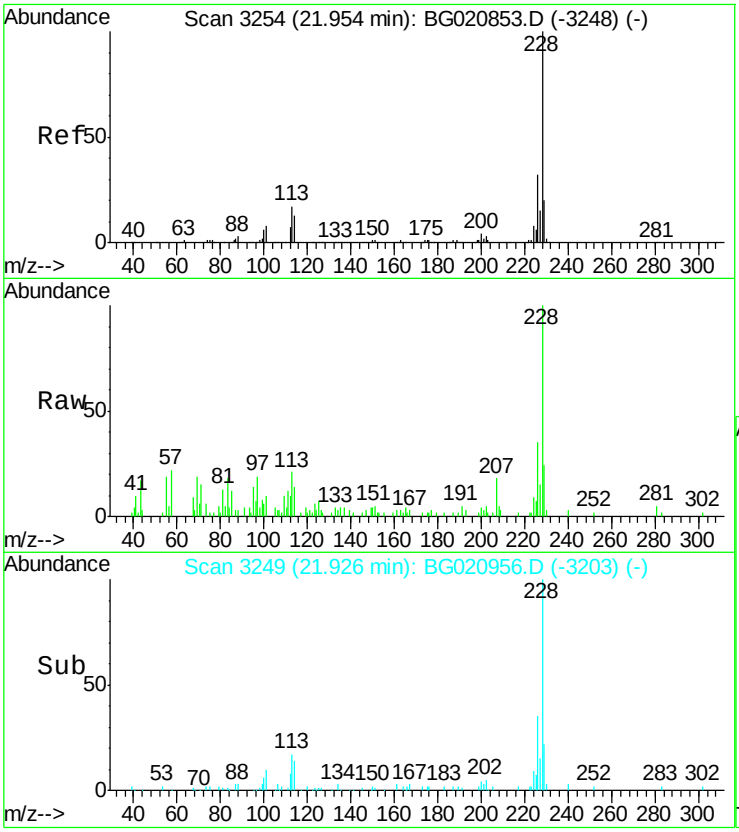


#80
Benzo(a)anthracene
Concen: 2.97 ng
RT: 21.86 min Scan# 3238
Delta R.T. -0.02 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:228 Resp: 20710

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.1	34.7
229	22.6	16.2	24.2

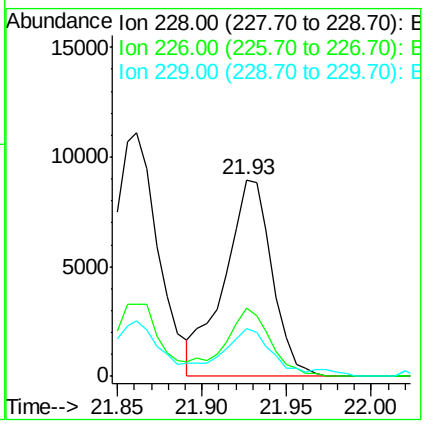




#82
Chrysene
Concen: 2.68 ng
RT: 21.93 min Scan# 3249
Delta R.T. -0.03 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

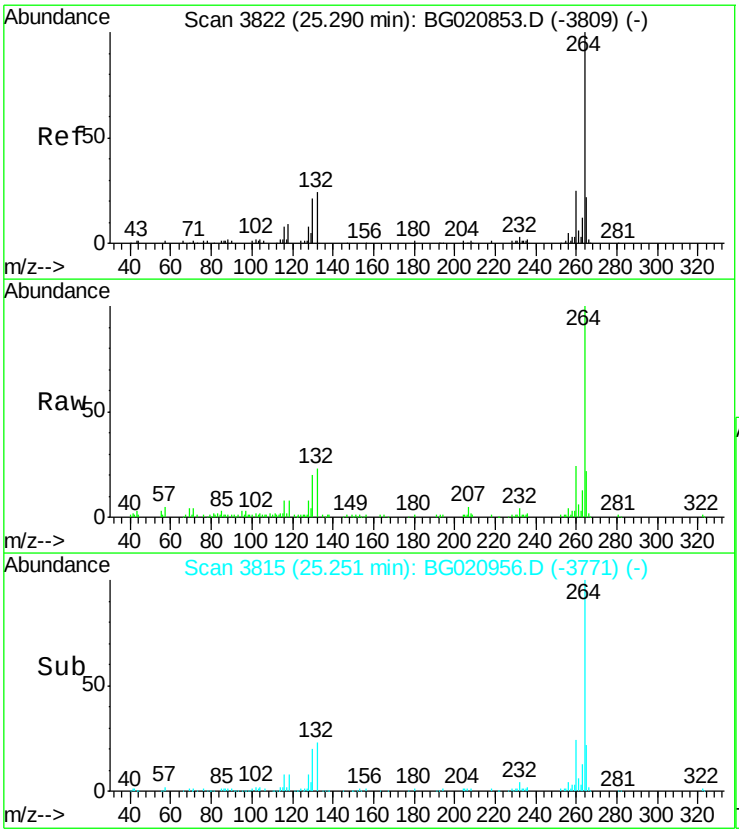
Tgt Ion:228 Resp: 17566

Ion	Ratio	Lower	Upper
228	100		
226	35.1	25.3	37.9
229	24.1	16.2	24.2



Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

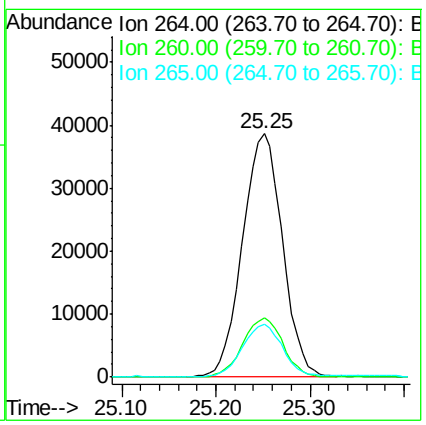
Manual Integrations APPROVED
UMANGI
2/19/2016 3:24:53 PM

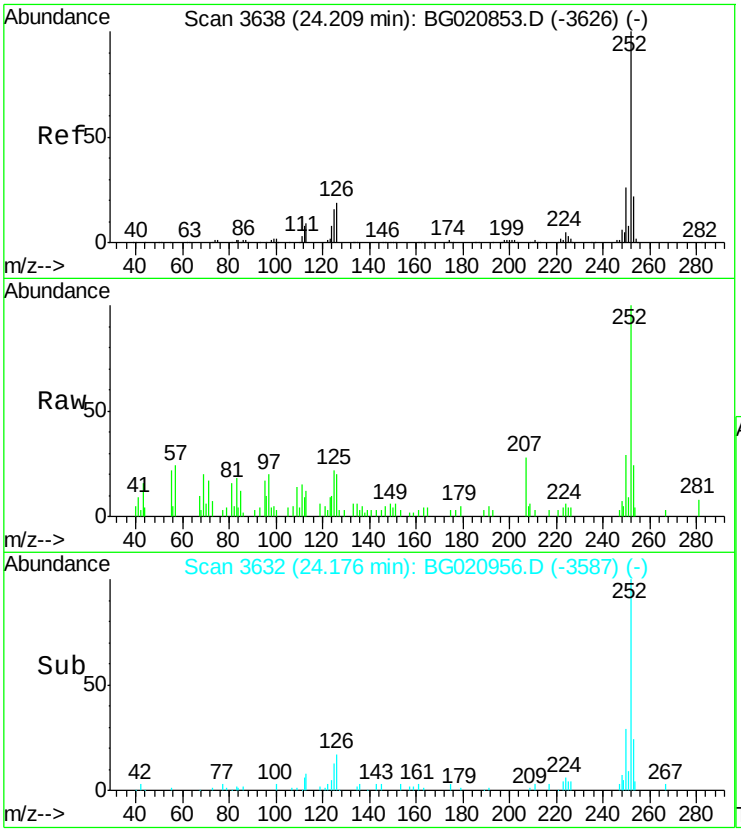


#86
Perylene-d12
Concen: 20.00 ng
RT: 25.25 min Scan# 3815
Delta R.T. -0.04 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:264 Resp: 113412

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.9	29.9
265	21.7	18.0	27.0





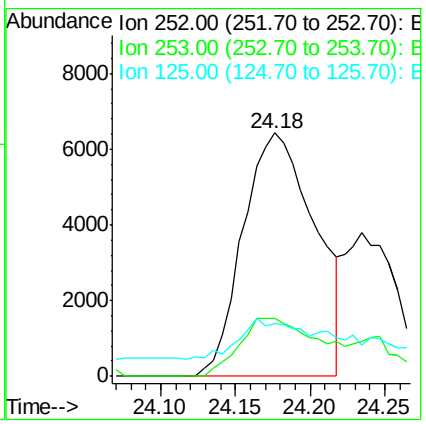
#87
Benzo(b)fluoranthene
Concen: 3.11 ng
RT: 24.18 min Scan# 3632
Delta R.T. -0.03 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

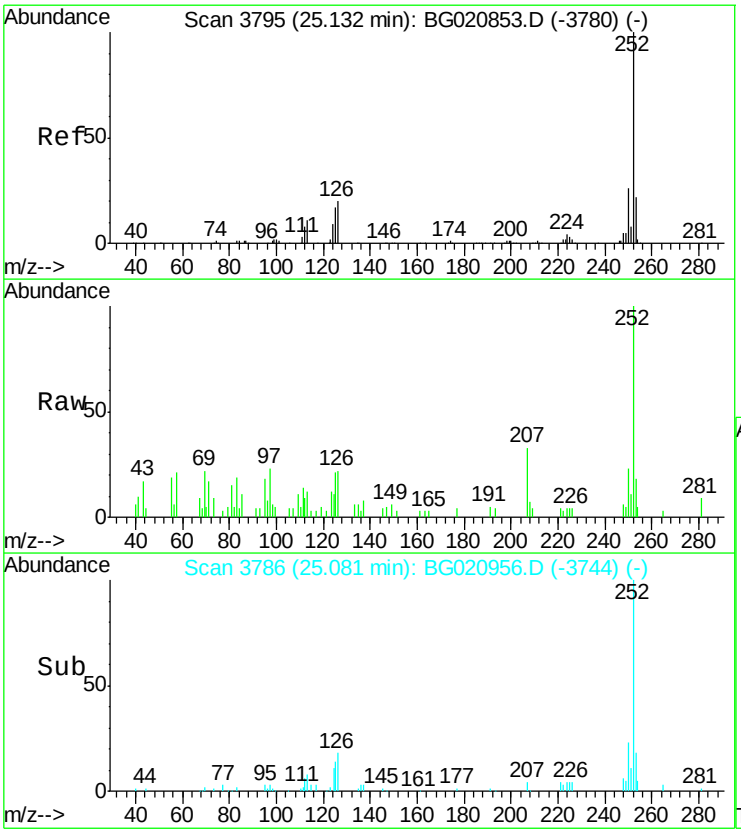
Tgt Ion:252 Resp: 21563

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	21.6	12.5	18.7#

Instrument :
BNA_G
ClientSampleId :
LIBERTY-SF-005

Manual Integrations APPROVED
UMANGI
2/19/2016 3:24:53 PM





#89
Benzo(a)pyrene
Concen: 2.48 ng
RT: 25.08 min Scan# 3786
Delta R.T. -0.05 min
Lab File: BG020956.D
Acq: 19 Feb 2016 4:20

Tgt Ion:252 Resp: 16400

Ion	Ratio	Lower	Upper
252	100		
253	18.4	17.4	26.2
125	20.9	13.6	20.4#