LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.563	10	13	53	rVB	1633511	3518800	100.00%	15.293%
2	7.304	985	989	1013	rBV	271285	452971	12.87%	1.969%
3	9.333	1330	1334	1337	rBV	549583	630510	17.92%	2.740%
4	9.369	1337	1340	1353	rVB	414268	592149	16.83%	2.574%
5	10.504	1529	1533	1545	rBV	143992	205410	5.84%	0.893%
6	10.651	1553	1558	1573	rVB	86243	135684	3.86%	0.590%
7	11.127	1635	1639	1647	rBV	26360	35576	1.01%	0.155%
8	11.274	1660	1664	1671	rBV	39195	51792	1.47%	0.225%
9	11.522	1702	1706	1708	rBV	37996	50960	1.45%	0.221%
10	11.639	1721	1726	1730	rBV	60293	92716	2.63%	0.403%
11	11.686	1730	1734	1745	rVB	38777	61648	1.75%	0.268%
12	11.833	1753	1759	1768	rBV5	27031	60858	1.73%	0.264%
13	11.951	1774	1779	1788	rBB3	24123	43871	1.25%	0.191%
14	12.157	1809	1814	1818	rBV2	517585	663544	18.86%	2.884%
15	12.204	1818	1822	1832	rVB	221510	318346	9.05%	1.384%
16	12.368	1843	1850	1856	rBV4	16000	36670	1.04%	0.159%
17	12.498	1868	1872	1885	rBV	212281	307929	8.75%	1.338%
18	13.045	1961	1965	1976	rVB	389378	506397	14.39%	2.201%
19	13.139	1976	1981	1983	rBV3	26492	35351	1.00%	0.154%
20	13.186	1986	1989	1994	rVB2	39911	52392	1.49%	0.228%
21	13.327	2009	2013	2023	rVB	68978	96690	2.75%	0.420%
22	13.451	2030	2034	2043	rBV	68785	133783	3.80%	0.581%
23	13.951	2112	2119	2123	rBV	58215	98588	2.80%	0.428%
24	13.998	2123	2127	2131	rVV2	31147	51848	1.47%	0.225%
25	14.074	2135	2140	2145	rVB5	24265	44444	1.26%	0.193%
26	14.180	2153	2158	2161	rBV2	35475	47582	1.35%	0.207%
27	14.286	2172	2176	2181	rBV	41737	51705	1.47%	0.225%
28	14.351	2181	2187	2189	rVV2	30974	52983	1.51%	0.230%
29	14.380	2189	2192	2198	rVB	100066	125169	3.56%	0.544%
30	14.545	2216	2220	2223	rBV	463466	585960	16.65%	2.547%
31	14.592	2223	2228	2235	rVB	1615613	2100002	59.68%	9.127%
32	14.674	2235	2242	2254	rVB	452781	656391	18.65%	2.853%
33	14.780	2254	2260	2263	rBV3	34876	57876	1.64%	0.252%
34	14.939	2284	2287	2291	rBV	33508	45824	1.30%	0.199%

LSC Area Percent Report

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Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.980	2291	2294	2303	rVV	173286	253922	7.22%	1.104%
36	15.357	2353	2358	2362	rBV	191163	211051	6.00%	0.917%
37	15.398	2362	2365	2370	rVV	220421	260777	7.41%	1.133%
38	15.474	2375	2378	2380	rVV	109901	126168	3.59%	0.548%
39	15.504	2380	2383	2388	rVV3	235673	345711	9.82%	1.502%
40	15.551	2388	2391	2401	rVB	99623	151763	4.31%	0.660%
41	15.809	2430	2435	2445	rVB	119974	154836	4.40%	0.673%
42	15.892	2445	2449	2455	rBV4	28611	55193	1.57%	0.240%
43	16.068	2476	2479	2483	rBV2	39173	53787	1.53%	0.234%
44	16.174	2492	2497	2500	rBV	78689	94945	2.70%	0.413%
45	16.215	2500	2504	2508	rVV3	42549	71891	2.04%	0.312%
46	16.286	2513	2516	2522	rBV3	37941	59413	1.69%	0.258%
47	16.374	2526	2531	2537	rBV	1173291	1411606	40.12%	6.135%
48	16.421	2537	2539	2545	rVB2	29386	37141	1.06%	0.161%
49	16.480	2545	2549	2553	rBV3	29722	56534	1.61%	0.246%
50	16.574	2560	2565	2568	rBV	33483	47367	1.35%	0.206%
51	16.674	2575	2582	2588	rBV2	1050423	1265430	35.96%	5.500%
52	16.721	2588	2590	2593	rVV	34250	38441	1.09%	0.167%
53	16.792	2593	2602	2611	rVB3	49968	120532	3.43%	0.524%
54	16.874	2612	2616	2619	rBV	68296	81678	2.32%	0.355%
55	16.927	2622	2625	2632	rVB	65347	89971	2.56%	0.391%
56	17.009	2635	2639	2644	rVB2	47857	76358	2.17%	0.332%
57	17.115	2653	2657	2660	rBV3	52823	91174	2.59%	0.396%
58	17.151	2660	2663	2668	rVB	180322	209351	5.95%	0.910%
59	17.233	2668	2677	2682	rBV2	190075	250135	7.11%	1.087%
60	17.280	2682	2685	2690	rBV2	97745	160768	4.57%	0.699%
61	17.398	2700	2705	2709	rBV2	38759	56014	1.59%	0.243%
62	17.721	2758	2760	2765	rVB3	52385	53765	1.53%	0.234%
63	17.792	2765	2772	2777	rBV3	37885	79484	2.26%	0.345%
64	17.851	2777	2782	2788	rVB4	30355	56797	1.61%	0.247%
65	17.956	2796	2800	2802	rBV	56842	74896	2.13%	0.326%
66	17.980	2802	2804	2807	rVV	65828	66451	1.89%	0.289%
67	18.015	2807	2810	2814	rVV	45402	58800	1.67%	0.256%
68	18.056	2814	2817	2822	rVB	55480	64623	1.84%	0.281%
69	18.127	2826	2829	2834	rBV2	37235	39607	1.13%	0.172%
70	18.268	2847	2853	2857	rBV2	624997	976947	27.76%	4.246%
71	18.309	2857	2860	2867	rVB2	312364	457927	13.01%	1.990%

LSC Area Percent Report

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Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.403	2872	2876	2881	rBV	75431	91226	2.59%	0.396%
73	18.562	2900	2903	2907	rVV	66134	75406	2.14%	0.328%
74	18.603	2907	2910	2917	rVB2	64819	81416	2.31%	0.354%
75	18.786	2935	2941	2945	rVV2	102570	156129	4.44%	0.679%
76	18.821	2945	2947	2952	rVV2	55621	64629	1.84%	0.281%
77	18.898	2955	2960	2963	rVV3	59636	95305	2.71%	0.414%
78	18.933	2963	2966	2968	rVV2	33473	51787	1.47%	0.225%
79	18.956	2968	2970	2980	rVV3	40561	93338	2.65%	0.406%
80	19.392	3040	3044	3049	rVB2	29300	43070	1.22%	0.187%
81	19.545	3065	3070	3073	rBV	385260	533018	15.15%	2.317%
82	19.656	3086	3089	3093	rBV2	77082	82554	2.35%	0.359%
83	19.780	3102	3110	3115	rBV4	33944	97555	2.77%	0.424%
84	19.833	3115	3119	3123	rBV	211258	227779	6.47%	0.990%
85	19.892	3126	3129	3134	rVB	322717	354534	10.08%	1.541%
86	19.944	3134	3138	3142	rBV	360935	428044	12.16%	1.860%
87	20.744	3270	3274	3276	rBV4	32398	38903	1.11%	0.169%
88	20.839	3285	3290	3296	rBV7	20244	43070	1.22%	0.187%
89	20.962	3307	3311	3314	rVV	24098	36296	1.03%	0.158%
90	21.109	3331	3336	3342	rBV	138949	244468	6.95%	1.062%
91	21.239	3354	3358	3362	rBV	37417	54774	1.56%	0.238%
92	21.286	3362	3366	3371	rVB2	34685	50830	1.44%	0.221%
93	21.439	3387	3392	3400	rBV	84809	166988	4.75%	0.726%
94	21.639	3422	3426	3436	rVB2	42606	91471	2.60%	0.398%
95	23.115	3672	3677	3683	rVB3	18421	42963	1.22%	0.187%

Sum of corrected areas: 23009226

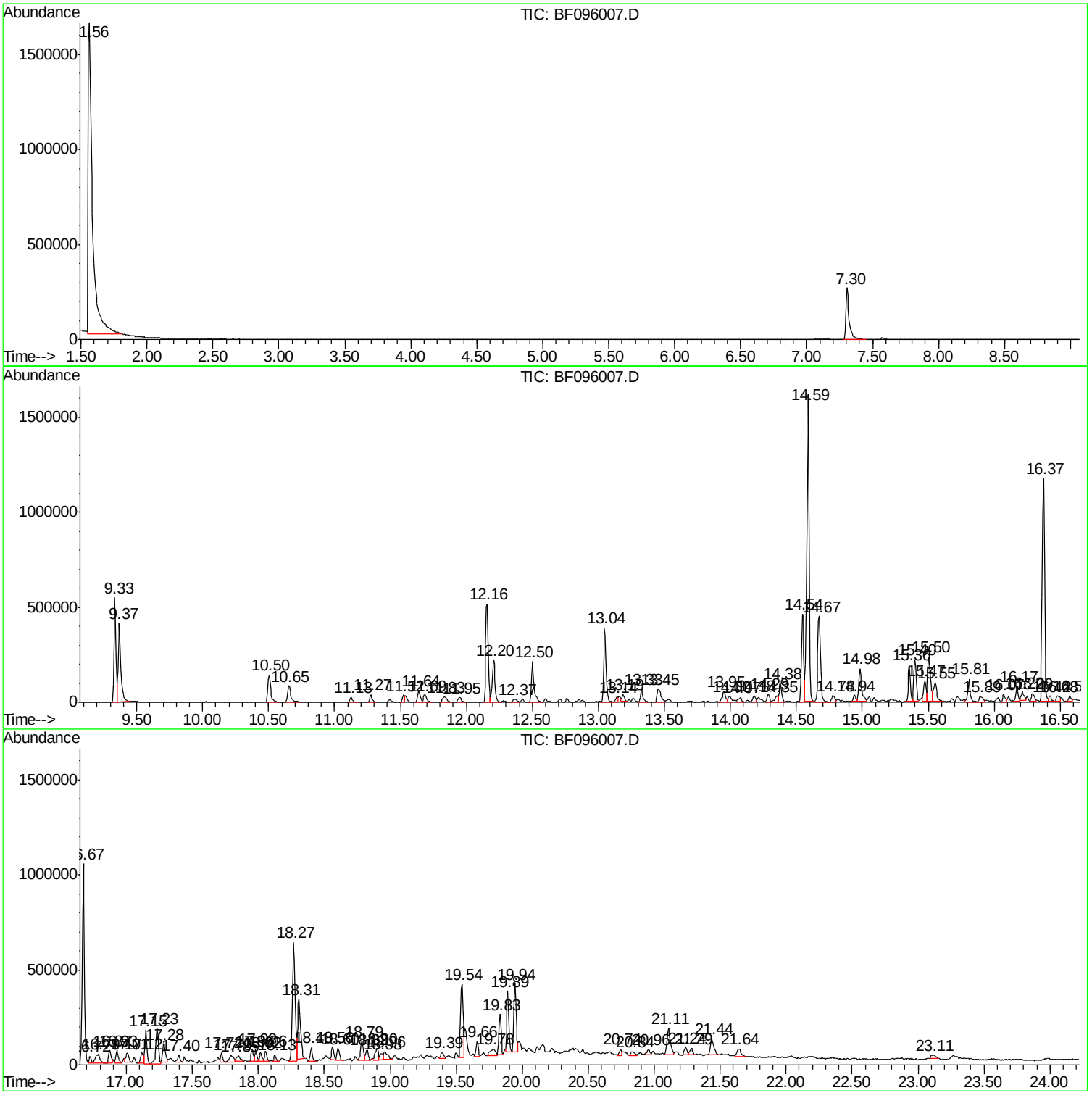
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

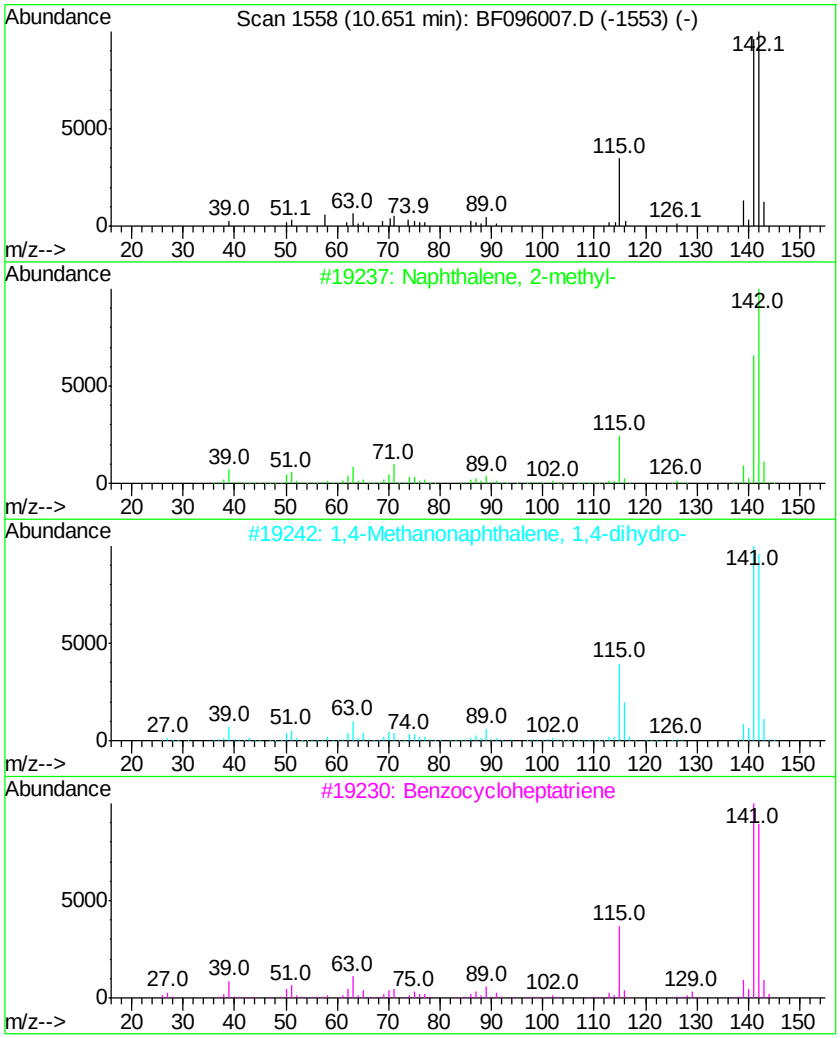
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

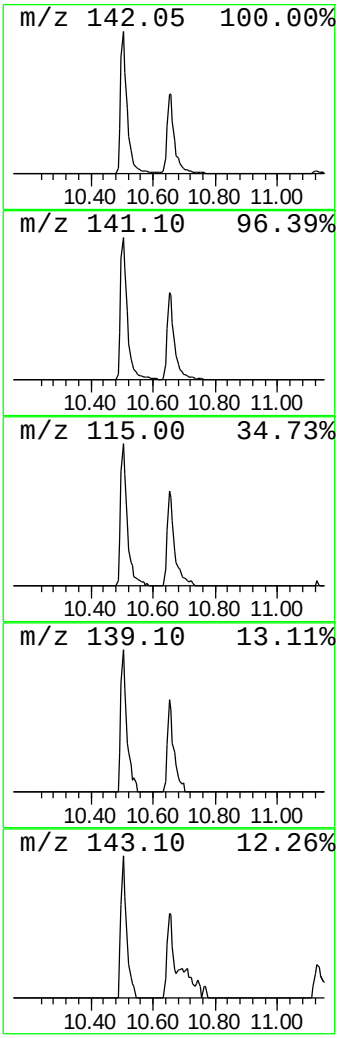
****

Peak Number 2 1,4-Methanonaphthalene, 1,4... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.65	4.30 ng	135684	Naphthalene-d8	9.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
2	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

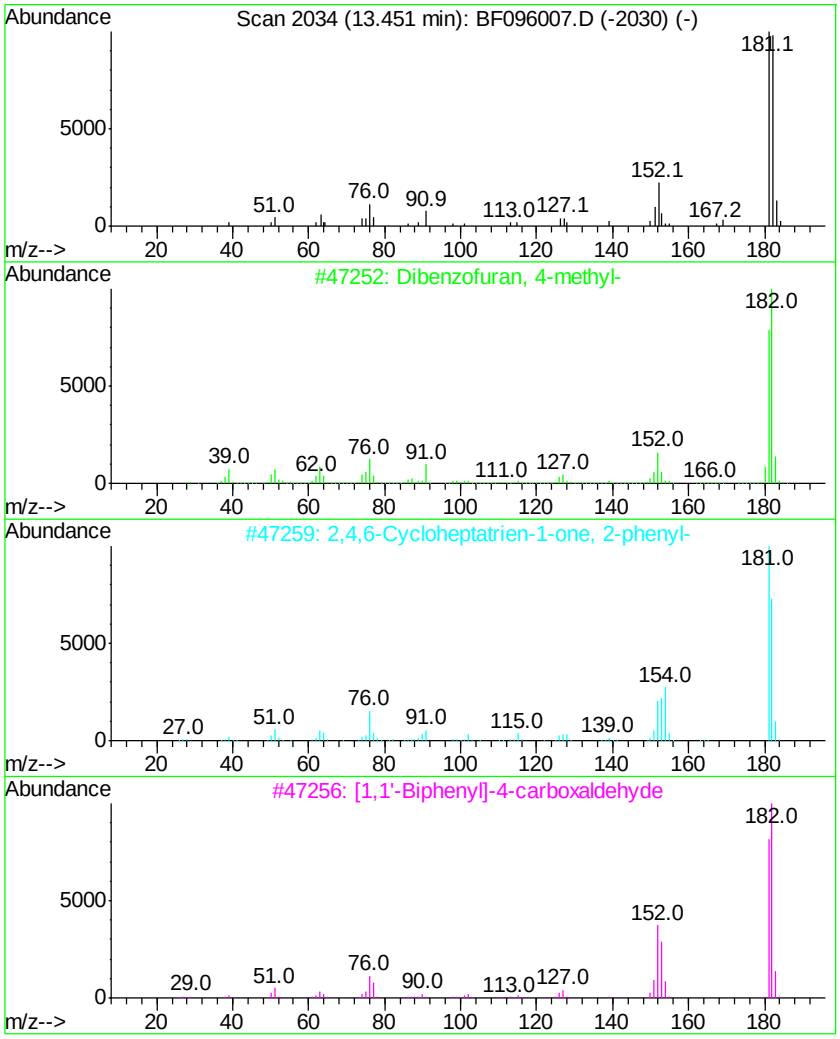
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

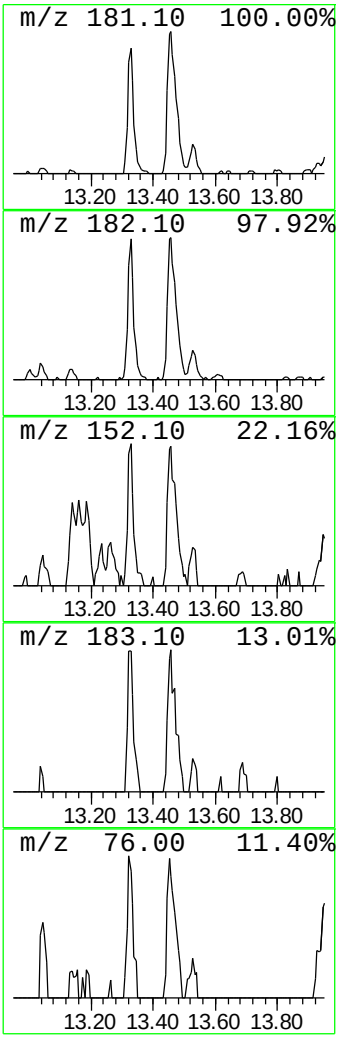
****

Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.45	4.57 ng	133783	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	93
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
5	9H-Xanthene	182	C13H10O	000092-83-1	72





Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
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Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

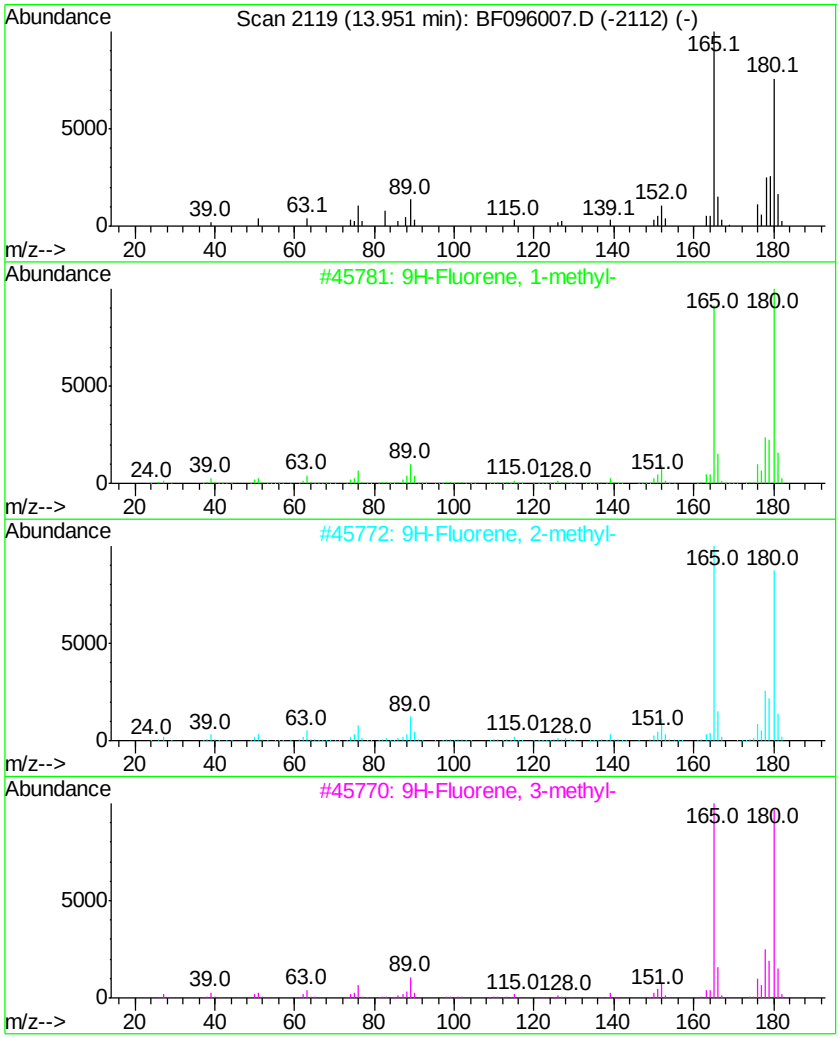
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

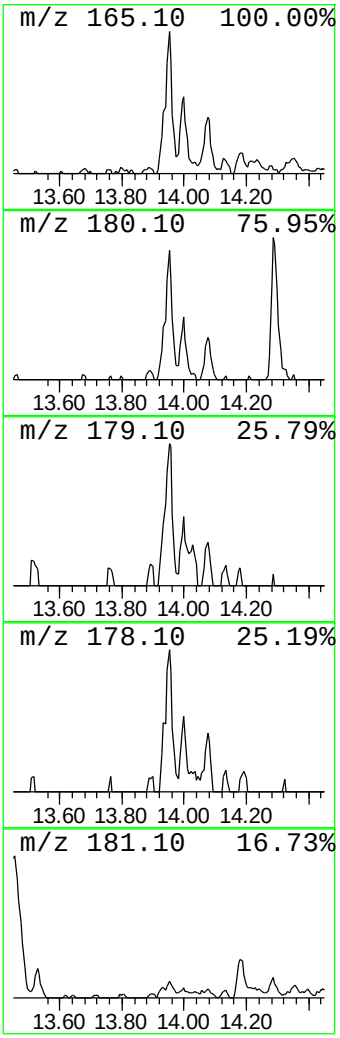
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	3.37 ng	98588	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	58





Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

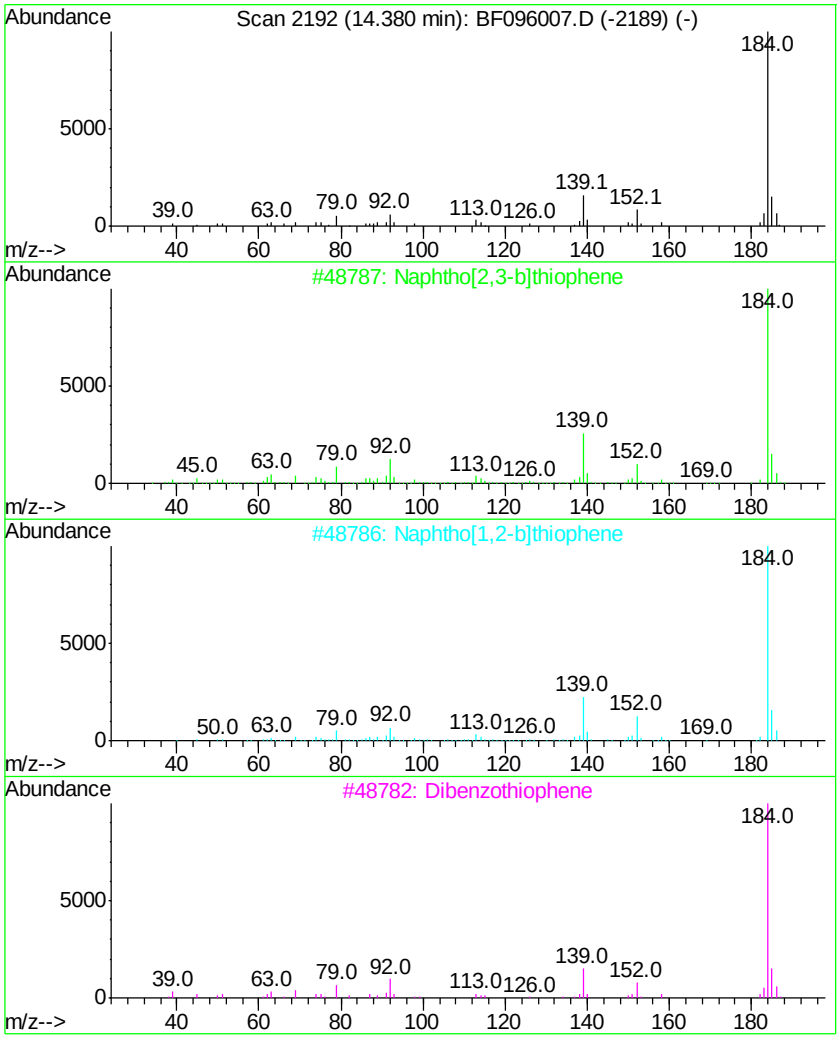
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

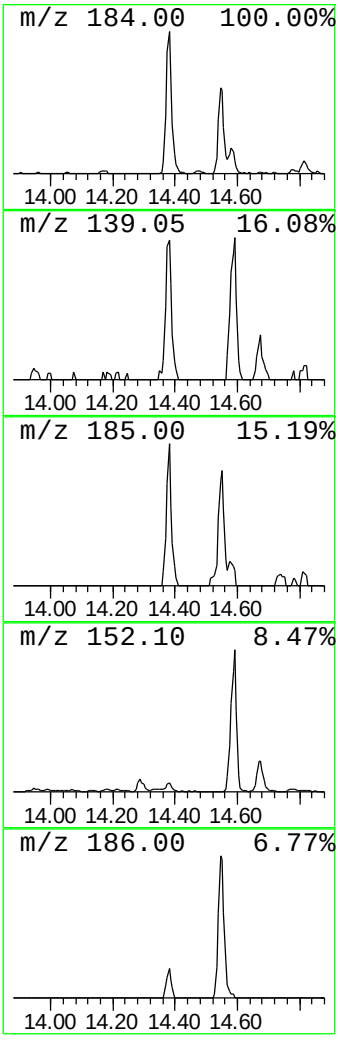
****

Peak Number 5 Naphtho[2,3-b]thiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.38	4.27 ng	125169	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

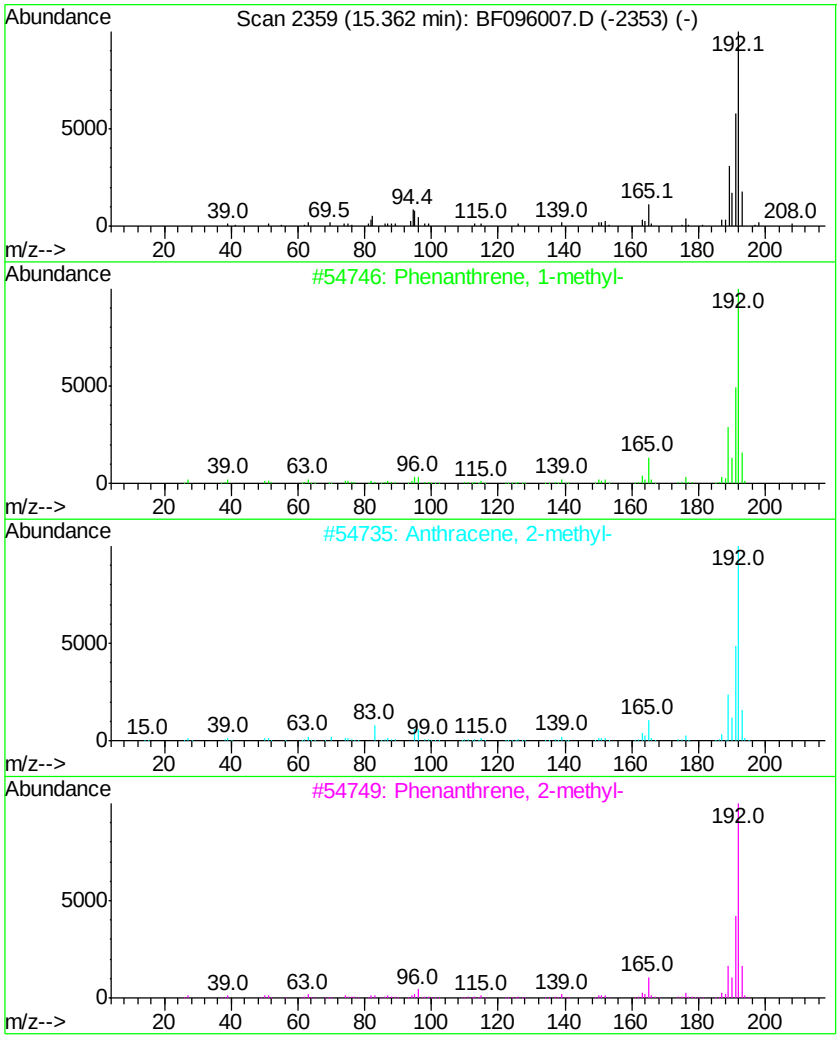
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

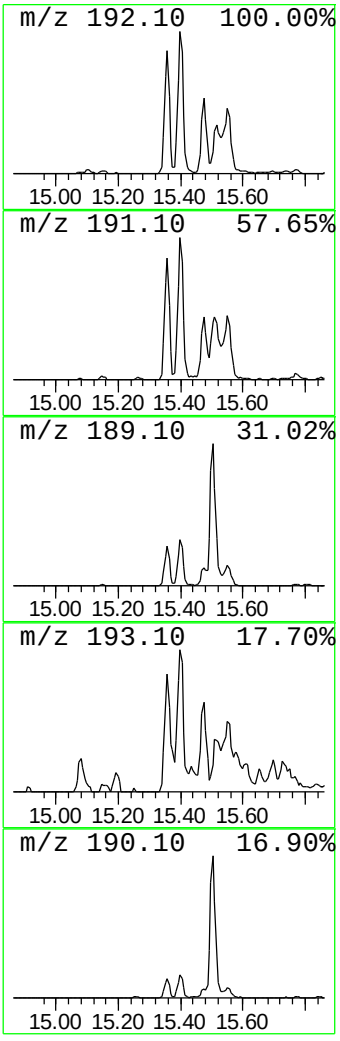
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	7.20 ng	211051	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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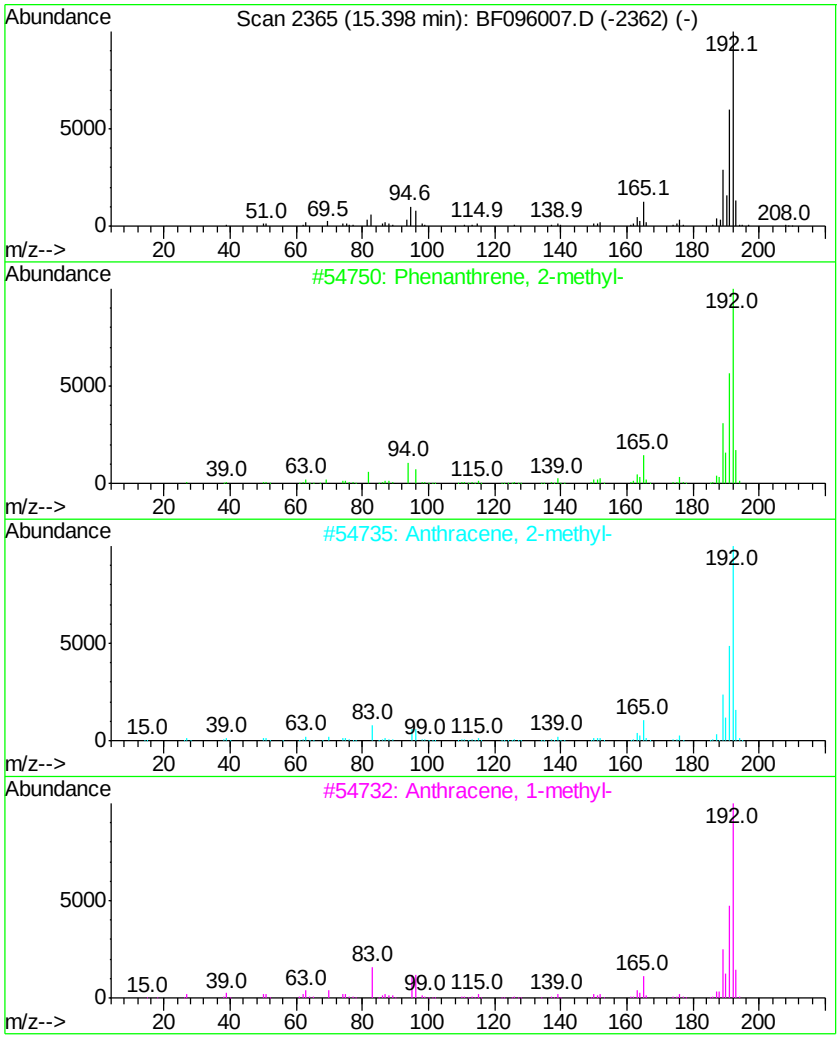
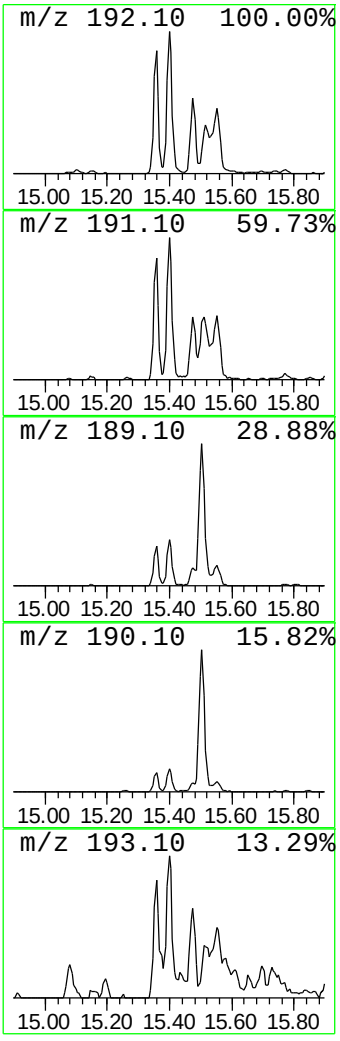
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.40	8.90 ng	260777	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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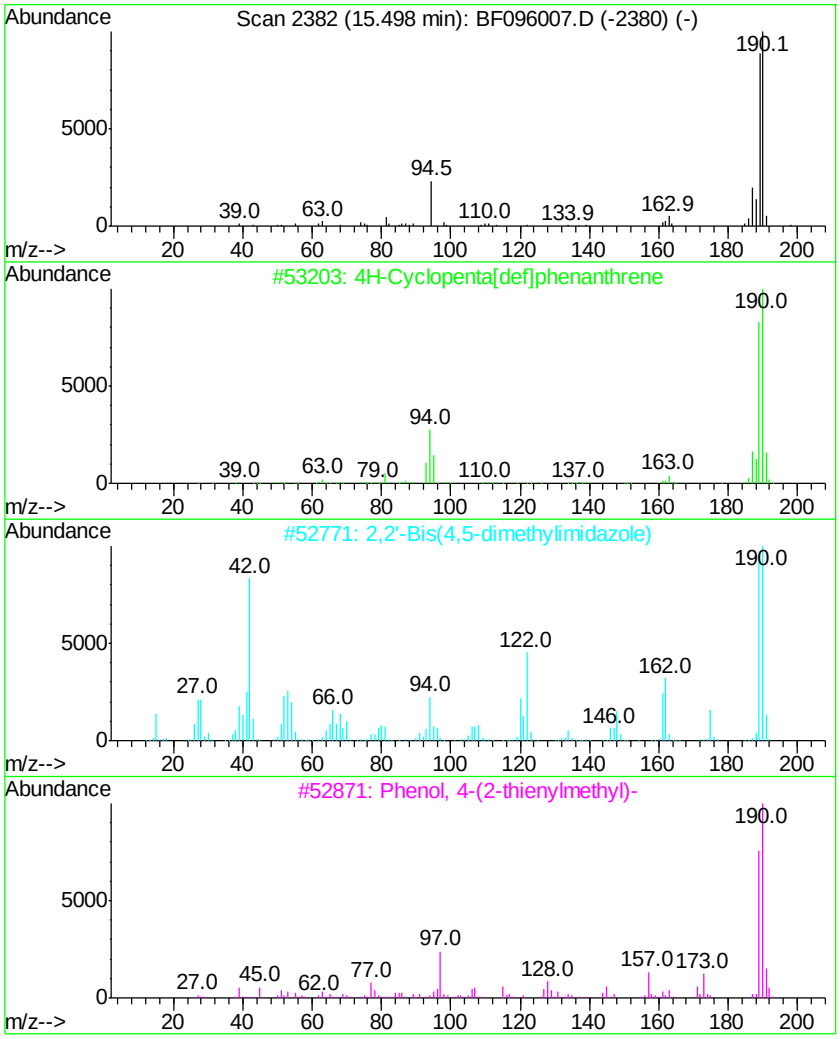
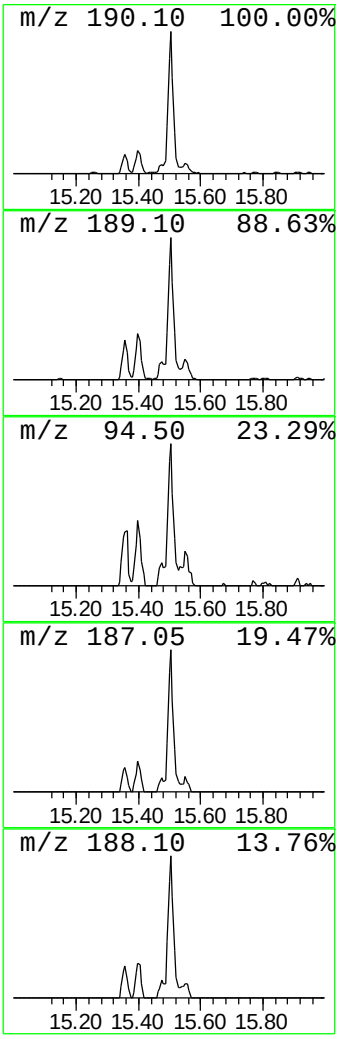
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.50	11.80 ng	345711	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	72
3	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	59
4	1H-Pyrazole-4-carboxaldehyde, 1-...	190	C10H7FN2O	1000338-05-6	59
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	42





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Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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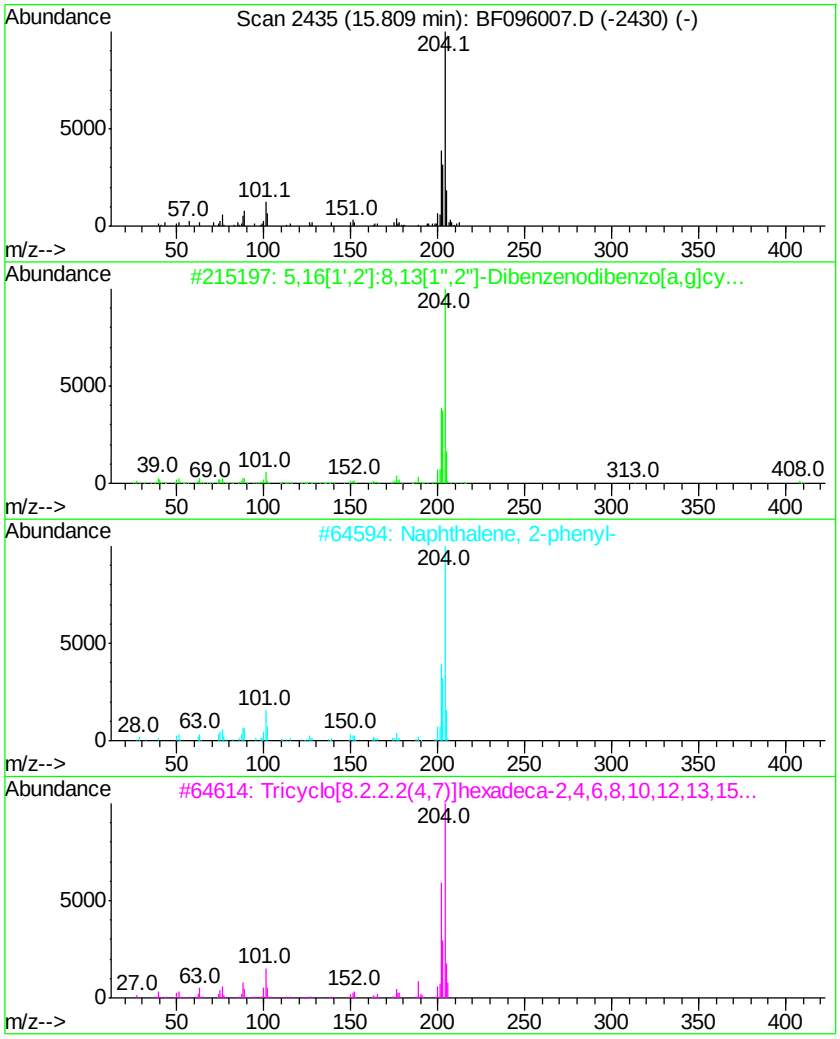
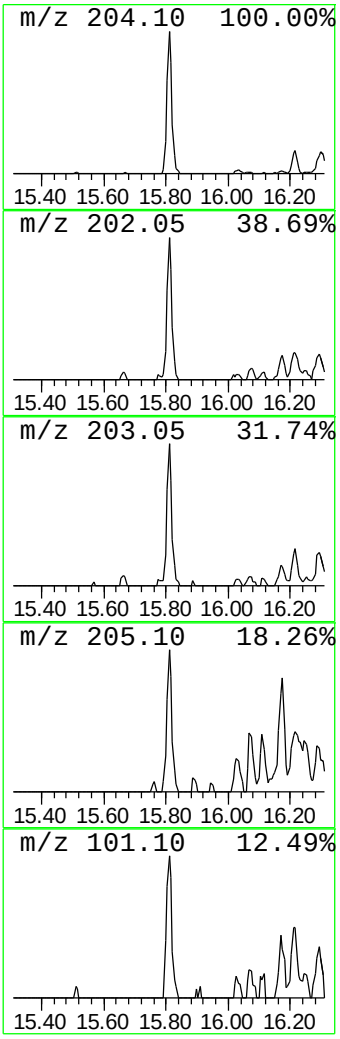
Peak Number 11 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	5.28 ng	154836	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
4	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	60
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	59





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Sample : I3683-02 50X
Misc :
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Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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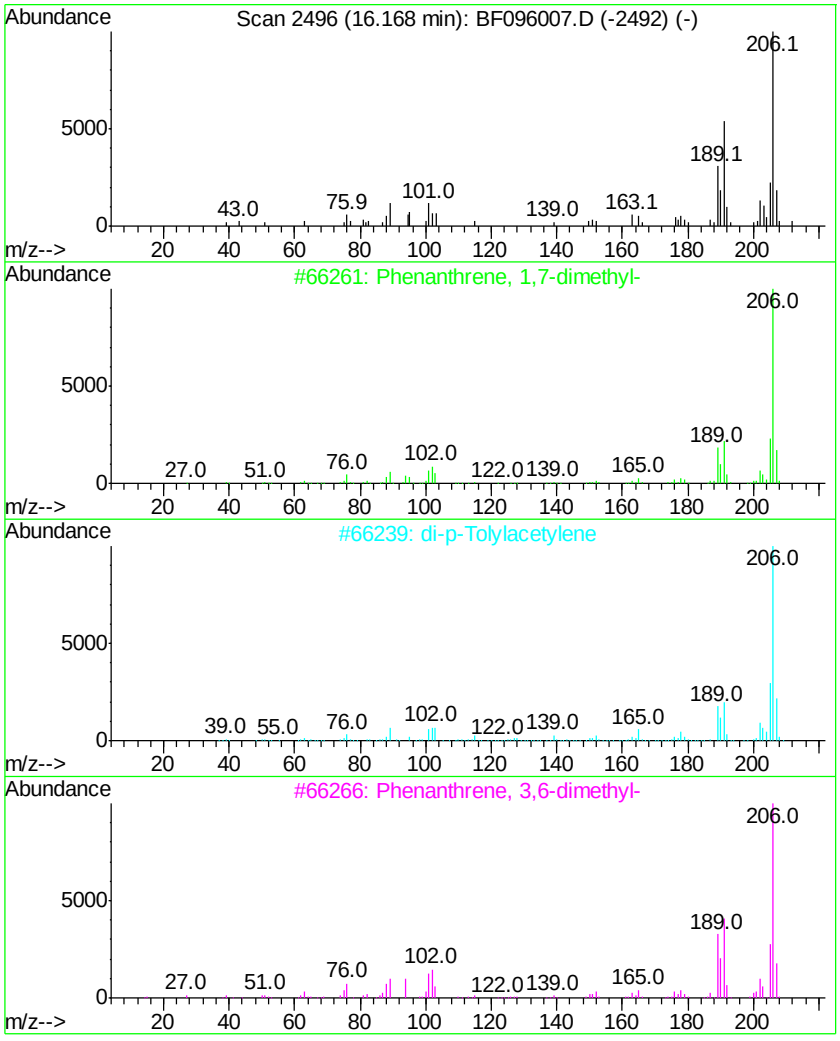
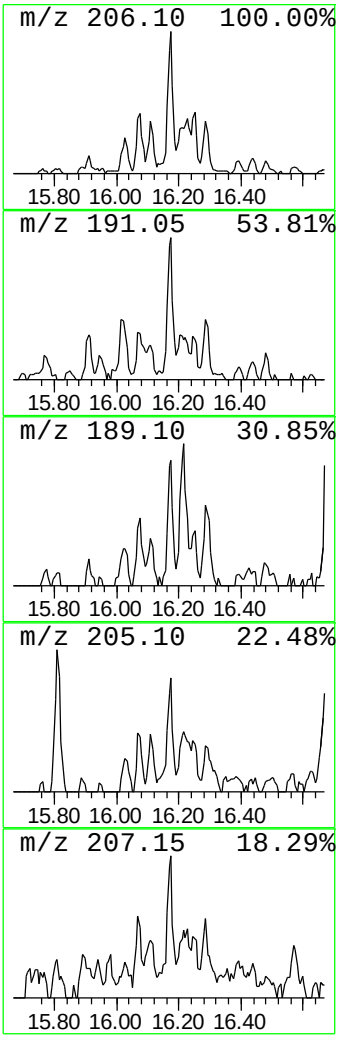
Peak Number 12 Phenanthrene, 1,7-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	3.24 ng	94945	Phenanthrene-d10	14.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





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Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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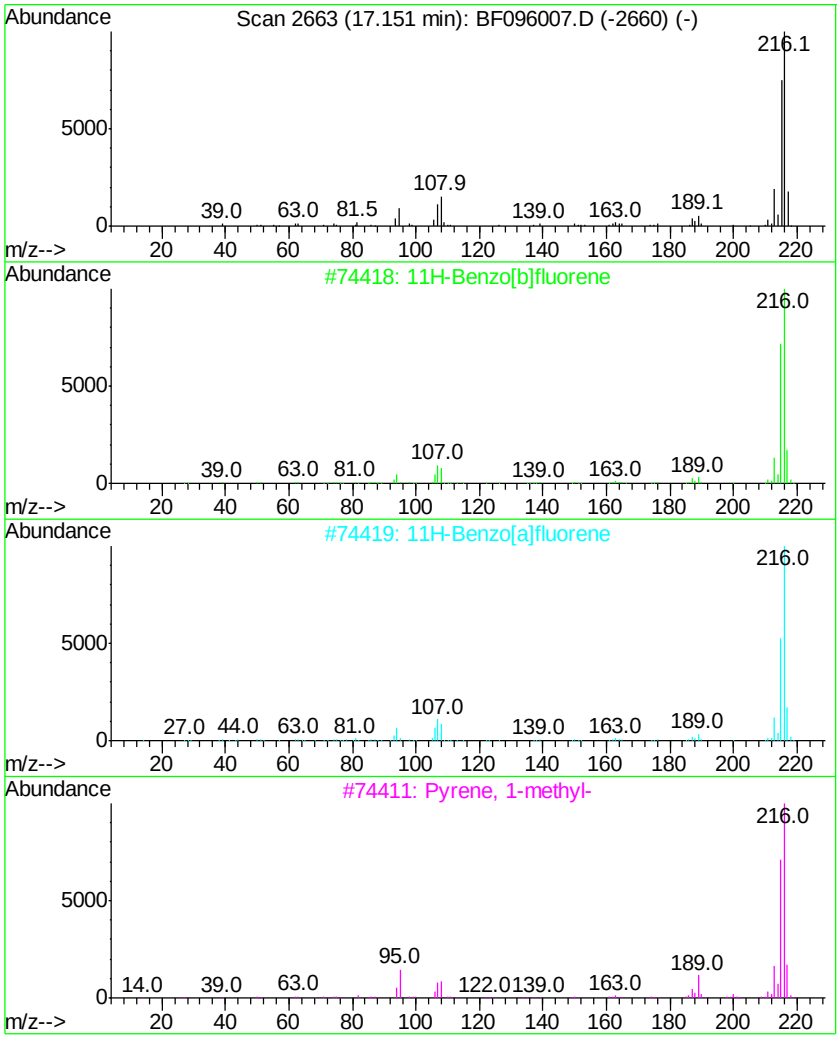
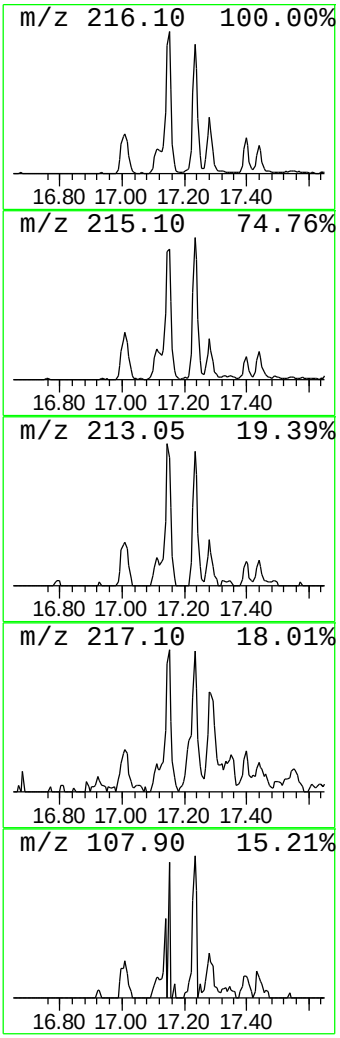
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.15	4.29 ng	209351	Chrysene-d12	18.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87





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Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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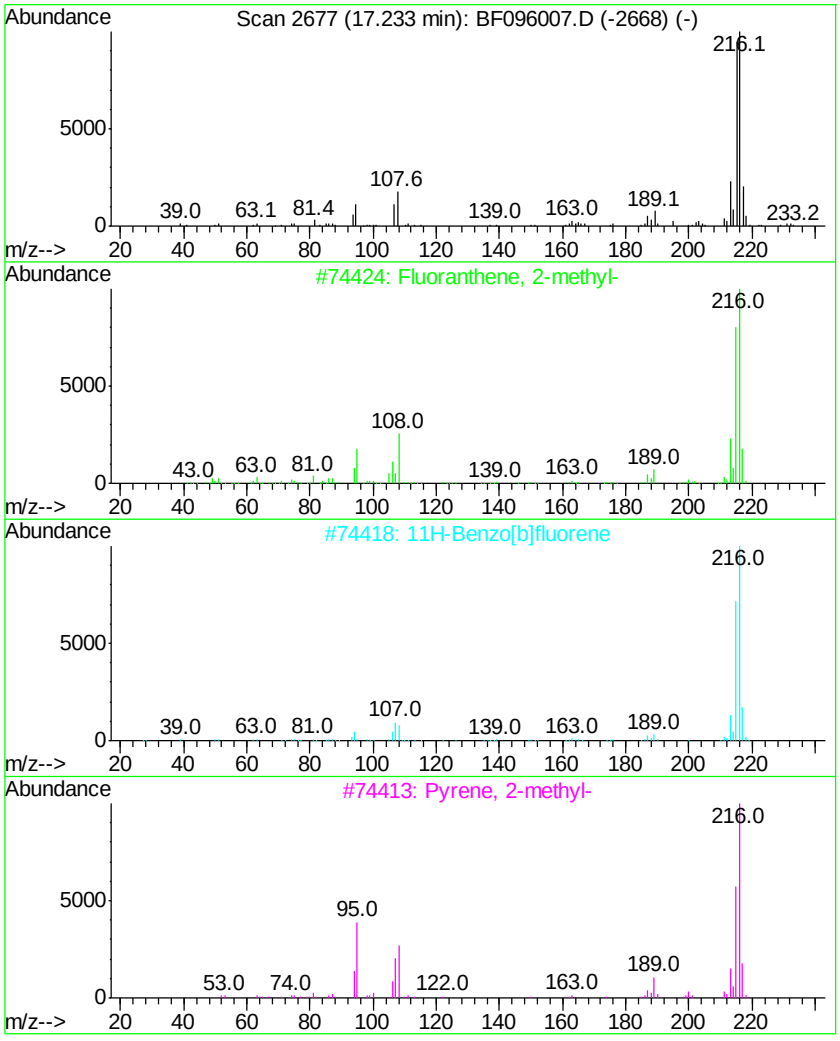
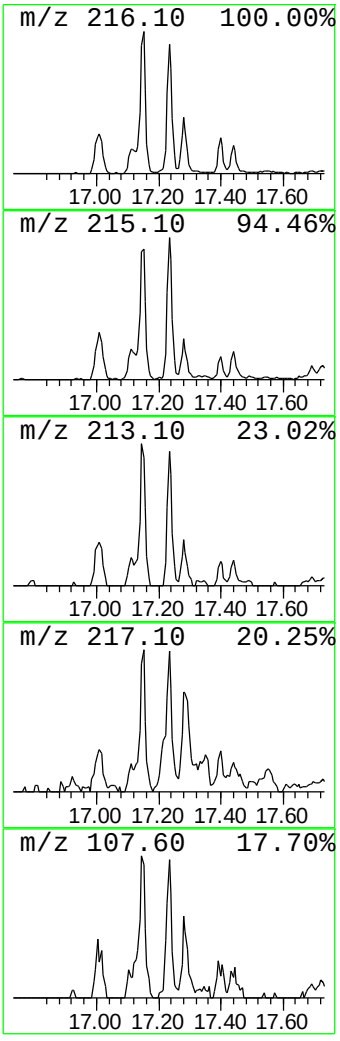
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.23	5.12 ng	250135	Chrysene-d12	18.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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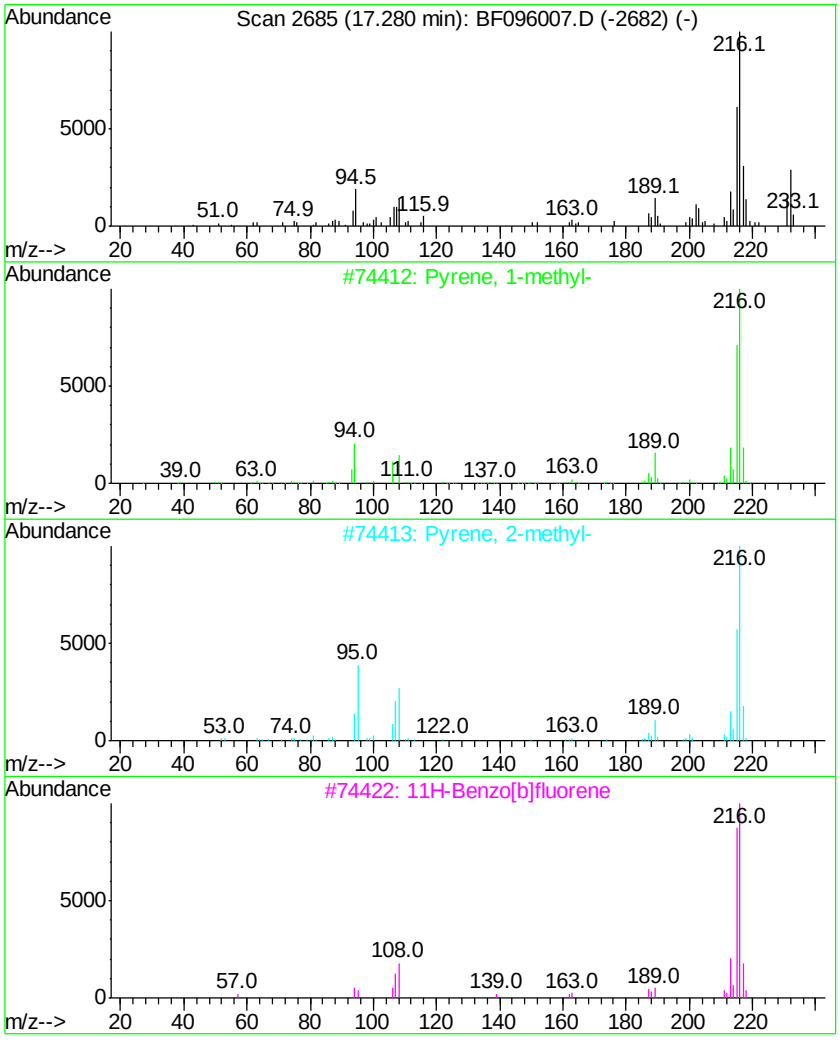
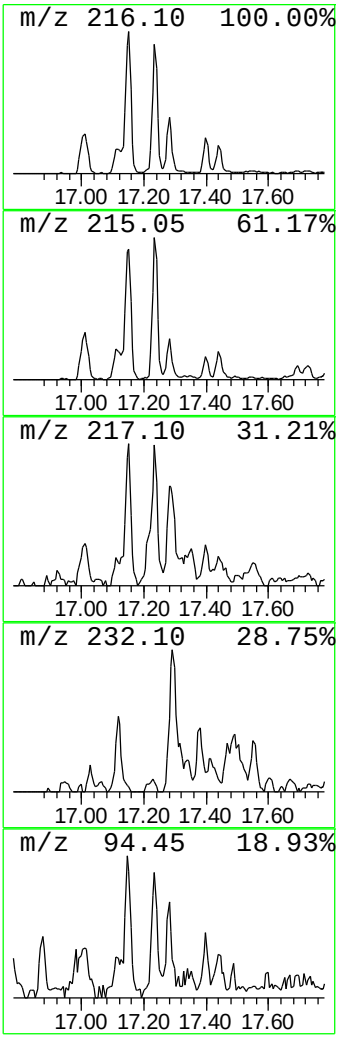
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	3.29 ng	160768	Chrysene-d12	18.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	64
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64





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Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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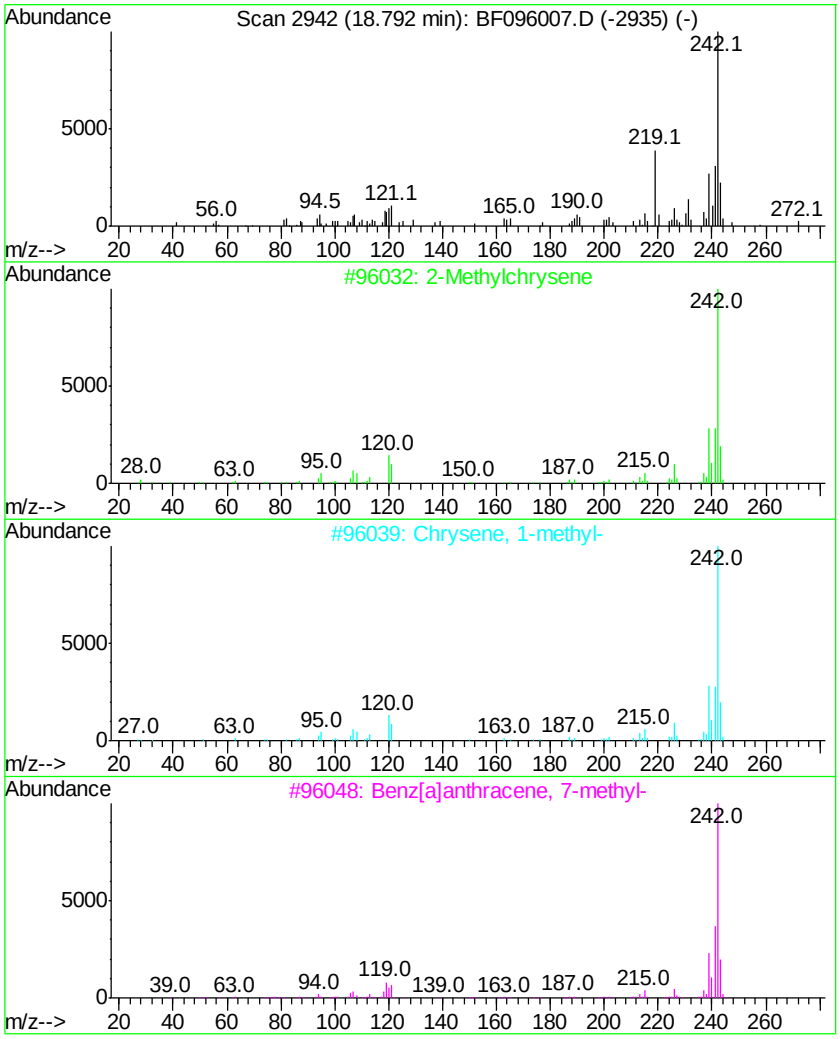
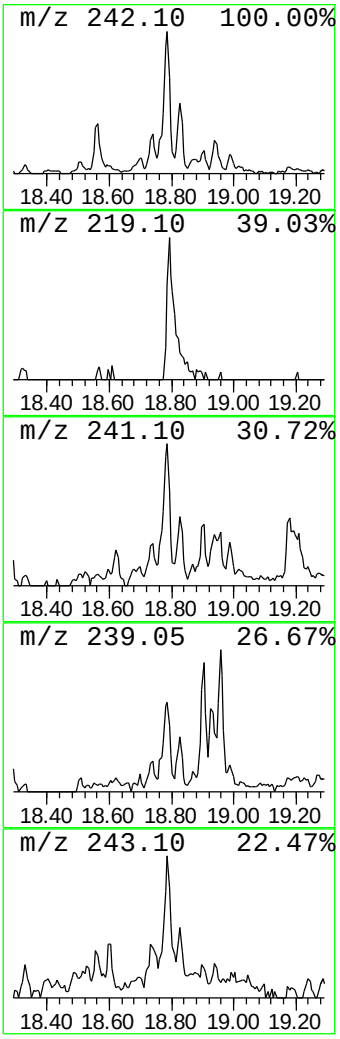
Peak Number 16 2-Methylchrysene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.79	3.20 ng	156129	Chrysene-d12	18.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylchrysene	242	C19H14	003351-32-4	94
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
4	Chrysene, 5-methyl-	242	C19H14	003697-24-3	93
5	Chrysene, 6-methyl-	242	C19H14	001705-85-7	93





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Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
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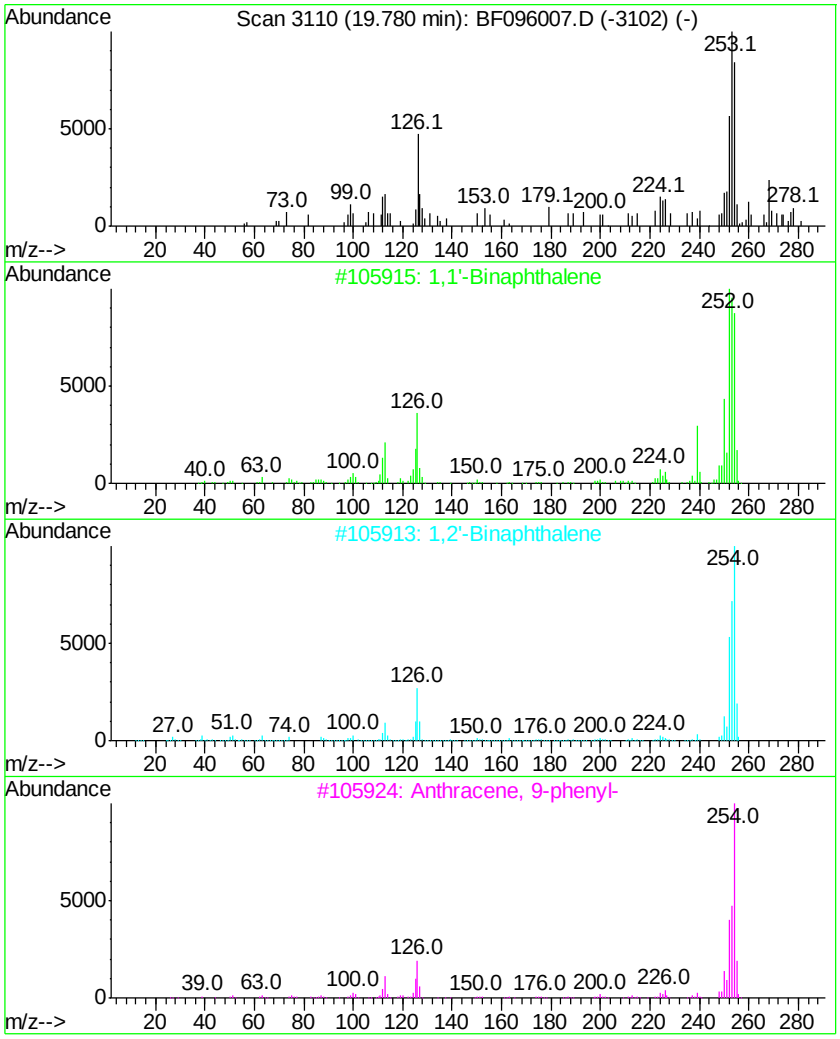
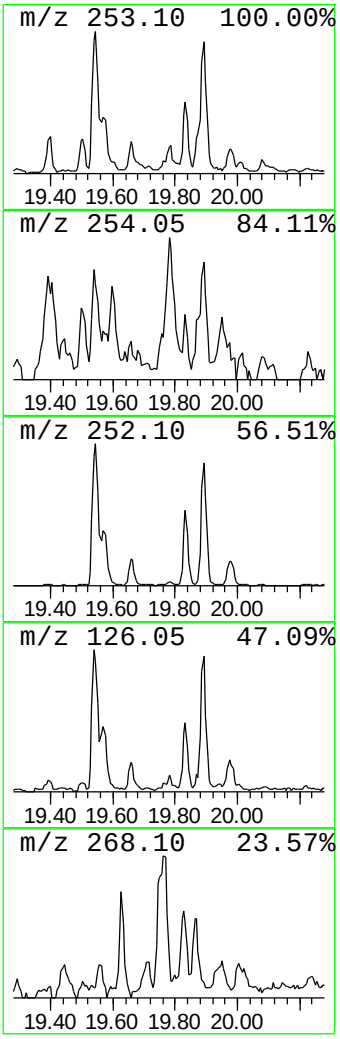
Peak Number 18 1,1'-Binaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.78	4.56 ng	97555	Perylene-d12	19.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	70
2	1,2'-Binaphthalene	254	C20H14	004325-74-0	62
3	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	55
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	52
5	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	46





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Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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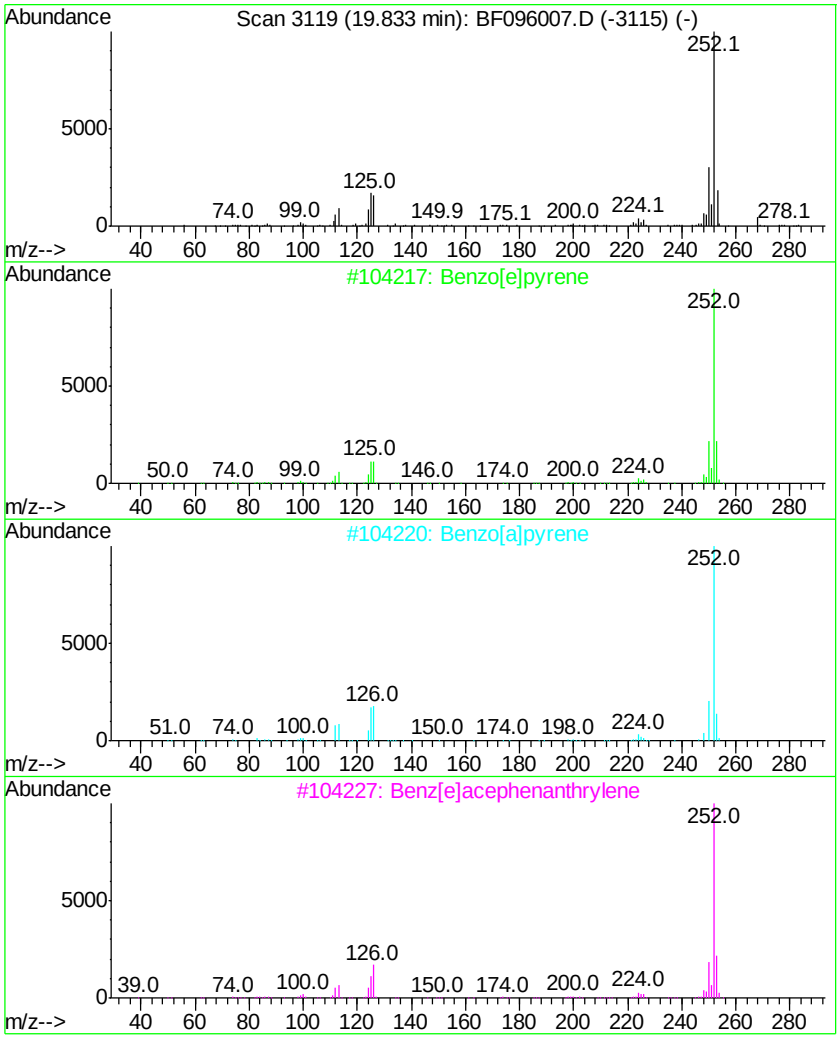
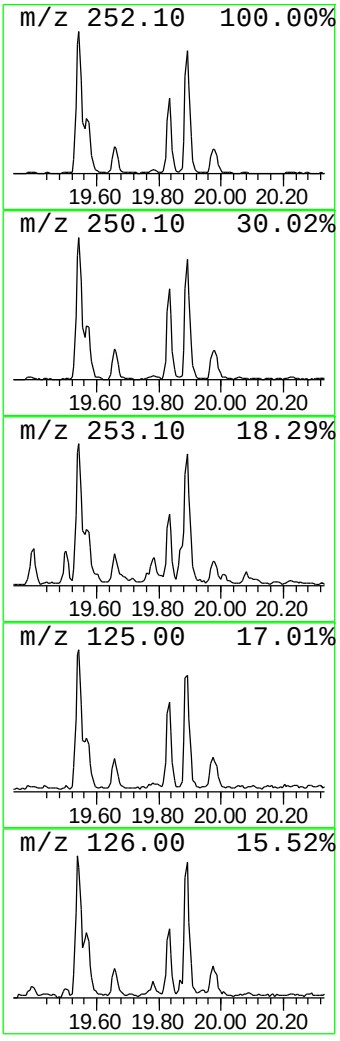
Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	10.64 ng	227779	Perylene-d12	19.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061917\
Data File : BF096007.D
Acq On : 19 Jun 2017 15:40
Operator : SJ/MA
Sample : I3683-02 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CC-5A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,4-Methanonaphth...	10.65	4.3	ng	135684	2	9.33	630510	20.0
Dibenzofuran, 4-m...	13.45	4.6	ng	133783	4	14.54	585960	20.0
9H-Fluorene, 1-me...	13.95	3.4	ng	98588	4	14.54	585960	20.0
Naphtho[2,3-b]thi...	14.38	4.3	ng	125169	4	14.54	585960	20.0
Phenanthrene, 1-m...	15.36	7.2	ng	211051	4	14.54	585960	20.0
Phenanthrene, 2-m...	15.40	8.9	ng	260777	4	14.54	585960	20.0
4H-Cyclopenta[def...	15.50	11.8	ng	345711	4	14.54	585960	20.0
5,16[1',2']:8,13[...	15.81	5.3	ng	154836	4	14.54	585960	20.0
Phenanthrene, 1,7...	16.17	3.2	ng	94945	4	14.54	585960	20.0
11H-Benzo[b]fluorene	17.15	4.3	ng	209351	5	18.27	976947	20.0
Fluoranthene, 2-m...	17.23	5.1	ng	250135	5	18.27	976947	20.0
Pyrene, 1-methyl-	17.28	3.3	ng	160768	5	18.27	976947	20.0
2-Methylchrysene	18.79	3.2	ng	156129	5	18.27	976947	20.0
1,1'-Binaphthalene	19.78	4.6	ng	97555	6	19.94	428044	20.0
Benzo[e]pyrene	19.83	10.6	ng	227779	6	19.94	428044	20.0