LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG123015.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.057	882	888	896	rBV	59033	100368	7.48%	0.627%
2	10.878	1359	1368	1373	rBV	91672	166764	12.42%	1.042%
3	14.091	1907	1915	1920	rVV2	21631	36638	2.73%	0.229%
4	14.385	1959	1965	1969	rBV	24408	41844	3.12%	0.262%
5	14.421	1969	1971	1979	rVB	17309	24144	1.80%	0.151%
6	14.697	2009	2018	2025	rBV2	181632	285039	21.23%	1.782%
7	15.684	2181	2186	2191	rBV	37448	52365	3.90%	0.327%
8	15.743	2191	2196	2204	rVB2	15444	29429	2.19%	0.184%
9	16.406	2306	2309	2316	rVB6	12349	19607	1.46%	0.123%
10	16.747	2355	2367	2371	rBV7	11925	29436	2.19%	0.184%
11	16.970	2396	2405	2409	rBV5	11204	23891	1.78%	0.149%
12	17.094	2421	2426	2432	rBV	17360	26263	1.96%	0.164%
13	17.170	2433	2439	2445	rBV5	18055	33513	2.50%	0.209%
14	17.258	2451	2454	2461	rVB	16860	24327	1.81%	0.152%
15	17.441	2479	2485	2489	rBV	242745	381755	28.43%	2.386%
16	17.482	2489	2492	2498	rVV	289120	405976	30.24%	2.538%
17	17.540	2498	2502	2504	rVV2	39751	55460	4.13%	0.347%
18	17.576	2504	2508	2512	rVB	49679	71220	5.30%	0.445%
19	17.846	2548	2554	2556	rBV2	11781	19915	1.48%	0.124%
20	17.958	2569	2573	2577	rBV	16574	20413	1.52%	0.128%
21	18.022	2579	2584	2591	rVB	20005	36604	2.73%	0.229%
22	18.316	2628	2634	2638	rVV	81722	123949	9.23%	0.775%
23	18.363	2638	2642	2648	rVB	99167	145046	10.80%	0.907%
24	18.445	2648	2656	2661	rBV2	30592	52747	3.93%	0.330%
25	18.510	2661	2667	2671	rVV2	110380	227330	16.93%	1.421%
26	18.545	2671	2673	2678	rVB	67221	83595	6.23%	0.523%
27	18.809	2713	2718	2722	rBV	61718	92854	6.92%	0.580%
28	18.856	2722	2726	2735	rVB3	30665	55264	4.12%	0.345%
29	19.050	2756	2759	2764	rVV3	25151	36031	2.68%	0.225%
30	19.103	2764	2768	2771	rVV	25329	31103	2.32%	0.194%
31	19.144	2771	2775	2782	rVB	22512	31662	2.36%	0.198%
32	19.227	2782	2789	2793	rBV	87345	154187	11.48%	0.964%
33	19.285	2793	2799	2802	rVV3	34534	70495	5.25%	0.441%
34	19.315	2802	2804	2808	rVB	30217	35448	2.64%	0.222%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG123015.M
Title : SVOA CALIBRATION

35	19.368	2808	2813	2826	rBV4	66889	153948	11.47%	0.962%
36	19.491	2827	2834	2840	rBV	695651	994535	74.07%	6.216%
37	19.544	2840	2843	2847	rBV	22673	28462	2.12%	0.178%
38	19.585	2847	2850	2854	rVB2	31788	42472	3.16%	0.265%
39	19.638	2855	2859	2863	rBV	26605	39479	2.94%	0.247%
40	19.732	2871	2875	2877	rBV2	21729	30259	2.25%	0.189%
41	19.820	2885	2890	2892	rBV2	146758	224597	16.73%	1.404%
42	19.855	2892	2896	2903	rVV	839514	1164267	86.71%	7.277%
43	19.920	2903	2907	2913	rVB2	60878	96753	7.21%	0.605%
44	20.032	2913	2926	2931	rBV2	43812	121876	9.08%	0.762%
45	20.084	2931	2935	2943	rVB3	36737	75655	5.63%	0.473%
46	20.178	2943	2951	2957	rBV3	93654	244275	18.19%	1.527%
47	20.337	2967	2978	2983	rVB	112732	318070	23.69%	1.988%
48	20.437	2991	2995	2999	rVV	54850	82939	6.18%	0.518%
49	20.502	2999	3006	3010	rVV2	134202	236993	17.65%	1.481%
50	20.537	3010	3012	3015	rVV3	26231	29558	2.20%	0.185%
51	20.578	3015	3019	3025	rVV3	22039	42505	3.17%	0.266%
52	20.637	3025	3029	3033	rVV	118091	168849	12.58%	1.055%
53	20.684	3033	3037	3047	rVV	110505	187409	13.96%	1.171%
54	20.795	3049	3056	3061	rVB7	17927	42945	3.20%	0.268%
55	20.895	3069	3073	3075	rBV4	14766	21497	1.60%	0.134%
56	20.931	3076	3079	3082	rVV3	16442	25337	1.89%	0.158%
57	21.066	3097	3102	3104	rVV5	17561	30596	2.28%	0.191%
58	21.107	3104	3109	3115	rVB	92248	156735	11.67%	0.980%
59	21.201	3122	3125	3131	rVB	21724	28031	2.09%	0.175%
60	21.289	3131	3140	3144	rBV3	72593	175156	13.05%	1.095%
61	21.330	3144	3147	3152	rVV	80303	126946	9.45%	0.793%
62	21.383	3152	3156	3161	rVV2	73633	138117	10.29%	0.863%
63	21.442	3161	3166	3175	rVB2	71043	147269	10.97%	0.920%
64	21.571	3179	3188	3195	rBV3	24199	85130	6.34%	0.532%
65	21.700	3200	3210	3217	rBV2	488802	1342695	100.00%	8.392%
66	21.765	3217	3221	3233	rVB	388789	684866	51.01%	4.281%
67	21.859	3233	3237	3242	rBV5	18951	30189	2.25%	0.189%
68	21.918	3242	3247	3253	rBV3	43380	79852	5.95%	0.499%
69	21.982	3253	3258	3262	rBV	63008	106578	7.94%	0.666%
70	22.129	3276	3283	3288	rBV4	36101	84304	6.28%	0.527%
71	22.188	3289	3293	3299	rVB5	25344	45319	3.38%	0.283%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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_G\METHODS\SOM02.2-EPA-BG123015.M
Title : SVOA CALIBRATION

72	22.370	3319	3324	3328	rBV	29581	54318	4.05%	0.340%
73	22.446	3328	3337	3344	rVV	106080	251746	18.75%	1.574%
74	22.523	3345	3350	3356	rVB	60394	118495	8.83%	0.741%
75	22.611	3360	3365	3370	rBV4	28149	56780	4.23%	0.355%
76	22.658	3370	3373	3378	rVB3	19622	27696	2.06%	0.173%
77	22.723	3379	3384	3388	rBV	42625	80016	5.96%	0.500%
78	22.869	3402	3409	3415	rVB3	34206	77810	5.80%	0.486%
79	23.304	3479	3483	3488	rBV3	14238	27031	2.01%	0.169%
80	23.475	3506	3512	3515	rBV5	8852	19028	1.42%	0.119%
81	23.557	3518	3526	3537	rVB6	28212	101199	7.54%	0.633%
82	23.945	3581	3592	3599	rBV2	259958	935861	69.70%	5.850%
83	24.191	3627	3634	3641	rBV2	54304	135217	10.07%	0.845%
84	24.403	3662	3670	3672	rBV4	17481	37541	2.80%	0.235%
85	24.544	3690	3694	3702	rVB7	7958	18591	1.38%	0.116%
86	24.667	3706	3715	3724	rBV	163490	453995	33.81%	2.838%
87	24.820	3732	3741	3751	rVB	269985	751562	55.97%	4.698%
88	24.973	3754	3767	3774	rBV	152292	479529	35.71%	2.997%
89	25.049	3775	3780	3795	rVB3	65226	214418	15.97%	1.340%
90	25.748	3892	3899	3908	rVB4	15623	48690	3.63%	0.304%
91	25.842	3912	3915	3923	rVB5	10963	25603	1.91%	0.160%
92	26.048	3943	3950	3961	rVB8	16785	57343	4.27%	0.358%
93	26.166	3961	3970	3975	rBV2	12910	40920	3.05%	0.256%
94	26.365	3996	4004	4014	rVB4	19879	63145	4.70%	0.395%
95	27.558	4200	4207	4216	rVV7	9608	32947	2.45%	0.206%
96	28.698	4385	4401	4422	rVB2	105743	528277	39.34%	3.302%
97	29.168	4470	4481	4493	rVB	23052	91017	6.78%	0.569%
98	29.321	4496	4507	4518	rVV3	24390	102845	7.66%	0.643%
99	29.855	4580	4598	4614	rBV2	85853	422512	31.47%	2.641%
100	30.484	4692	4705	4720	rVB3	16851	85565	6.37%	0.535%

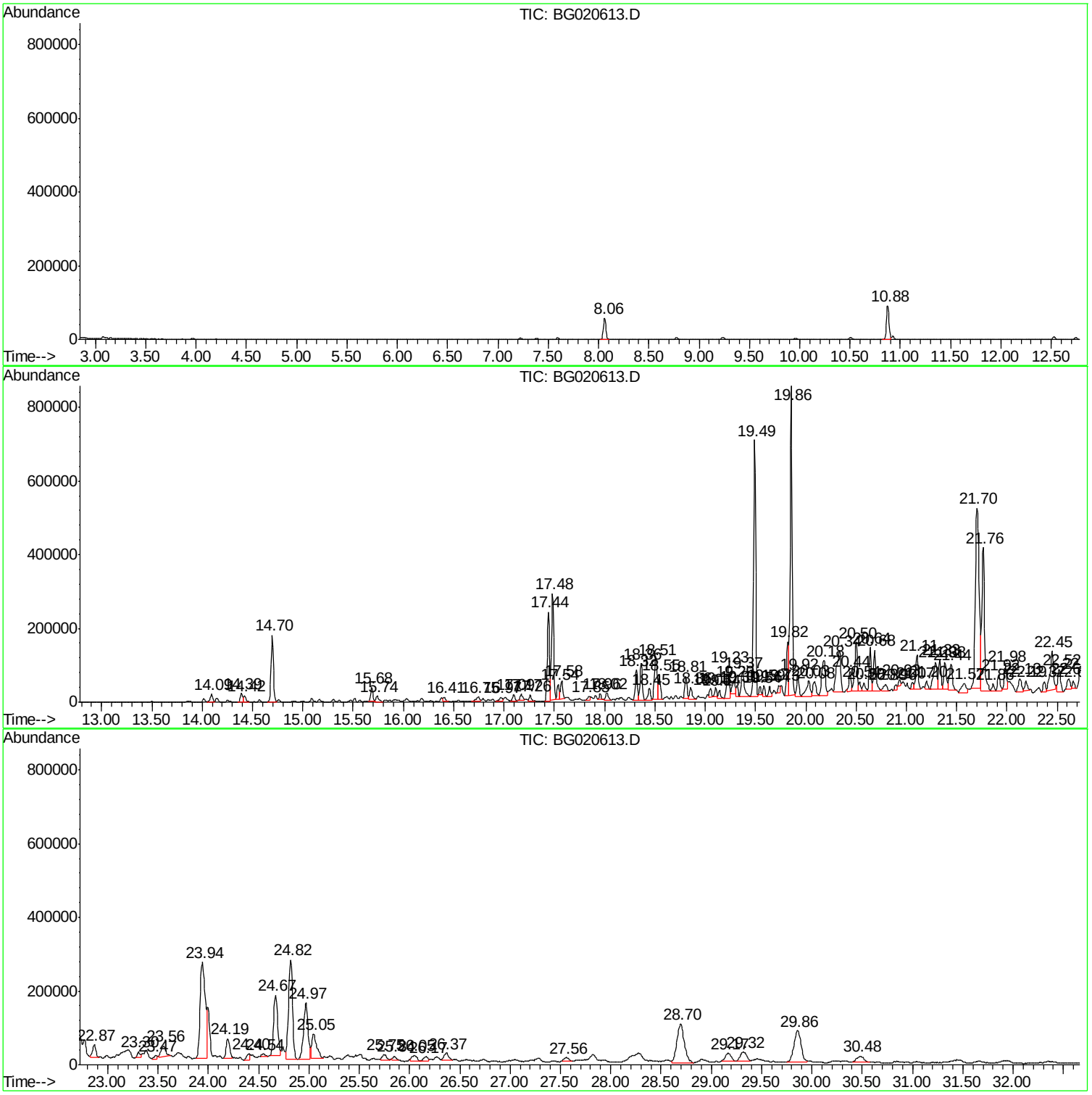
Sum of corrected areas: 15998842

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

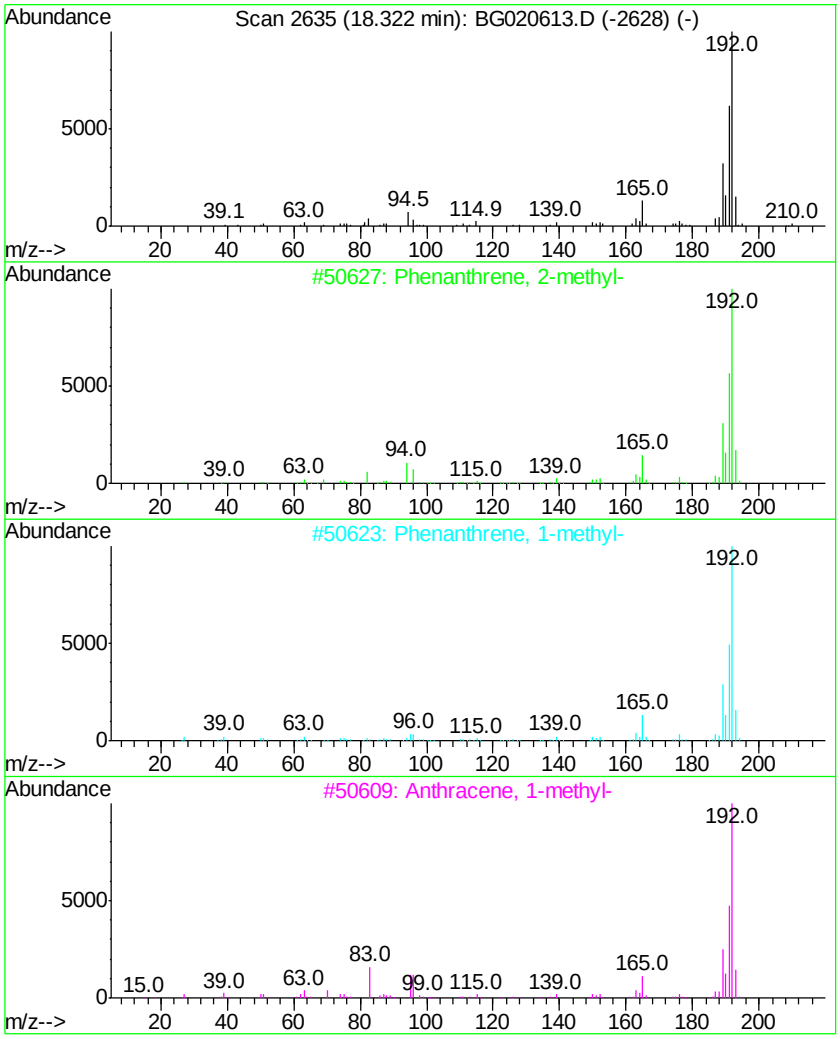
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

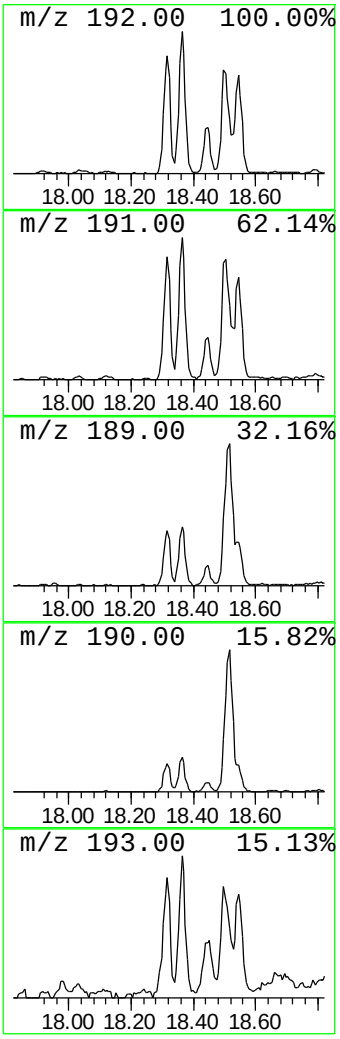
****

Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	6.49 ng/ul	123949	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

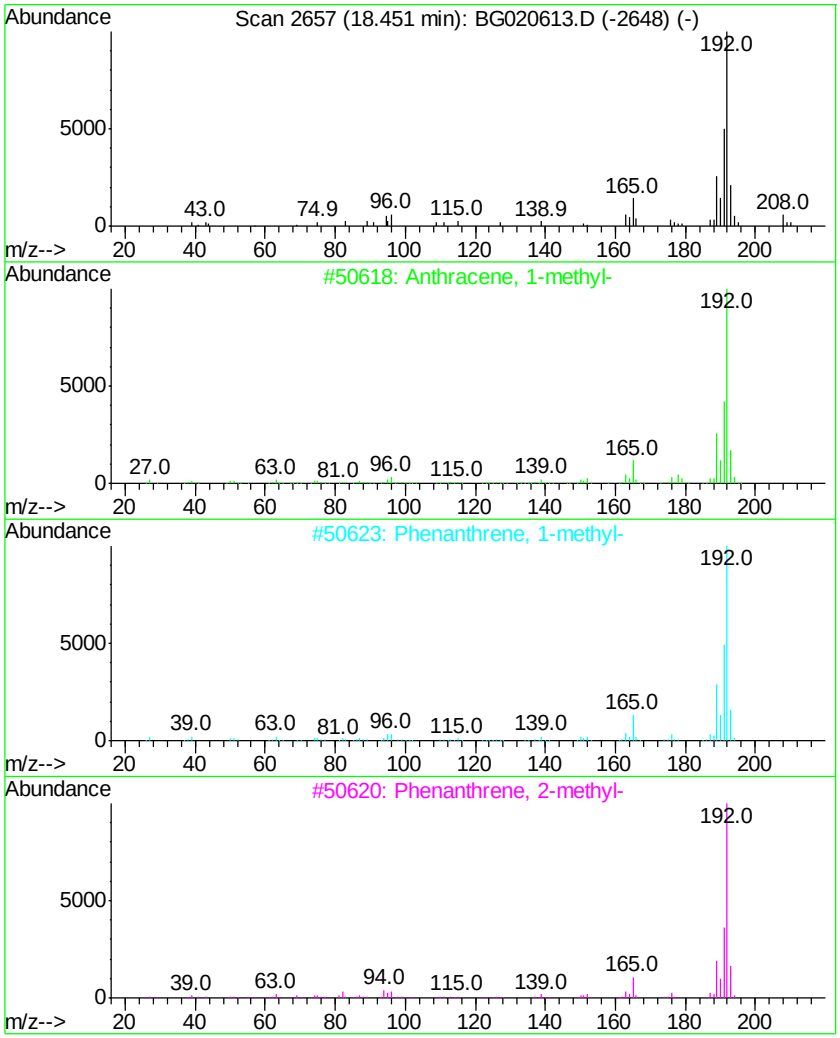
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

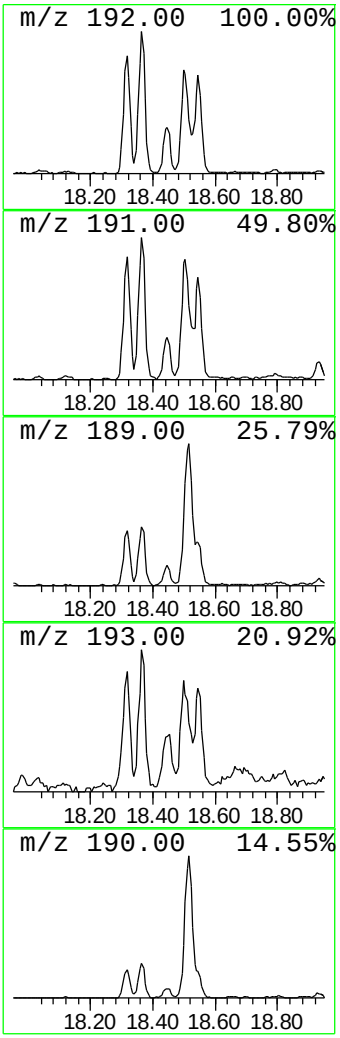
****

Peak Number 3 Anthracene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	2.76 ng/ul	52747	Phenanthrene-d10	17.44

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





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

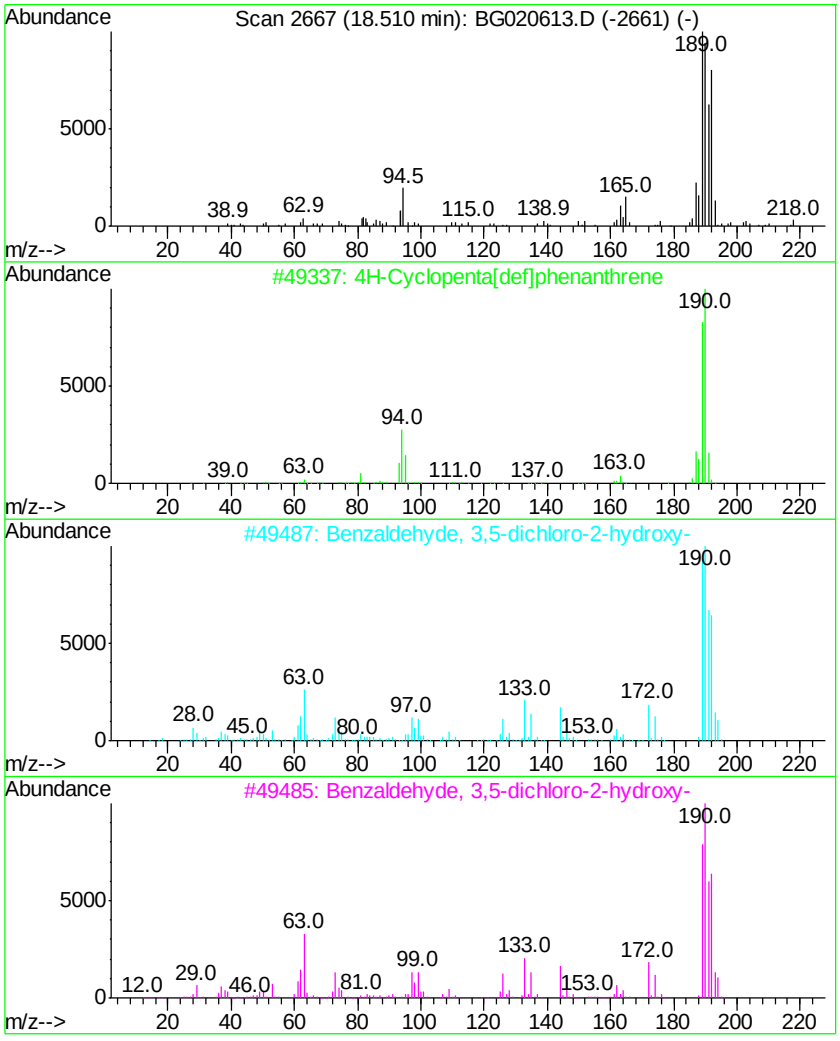
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

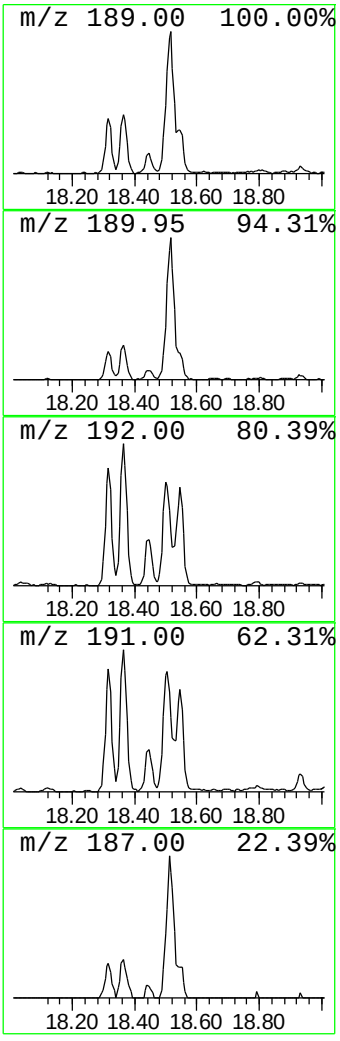
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.51	11.91 ng/ul	227330	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
3	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

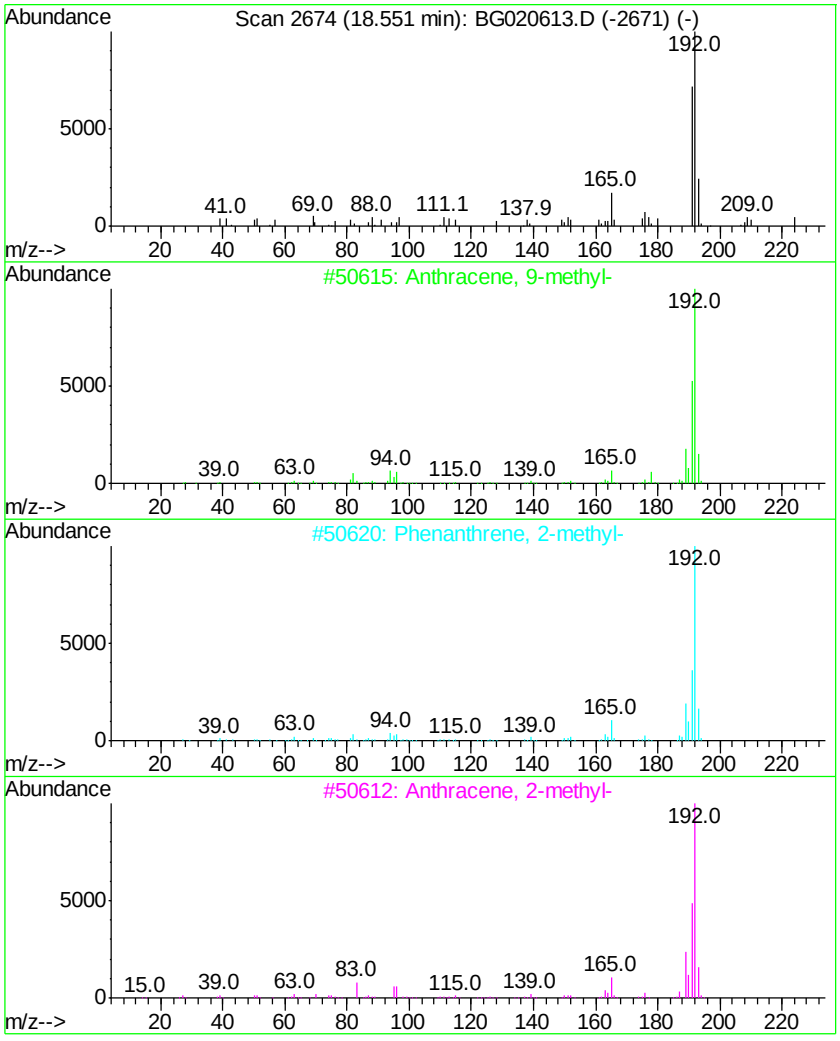
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

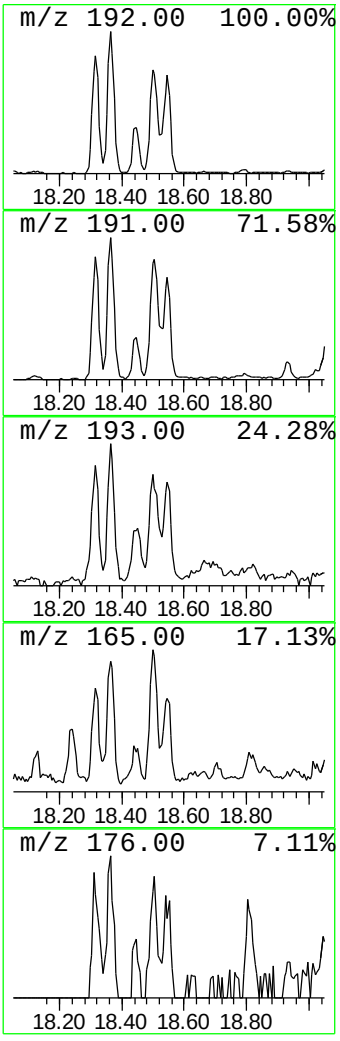
****

Peak Number 5 Anthracene, 9-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	4.38 ng/ul	83595	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

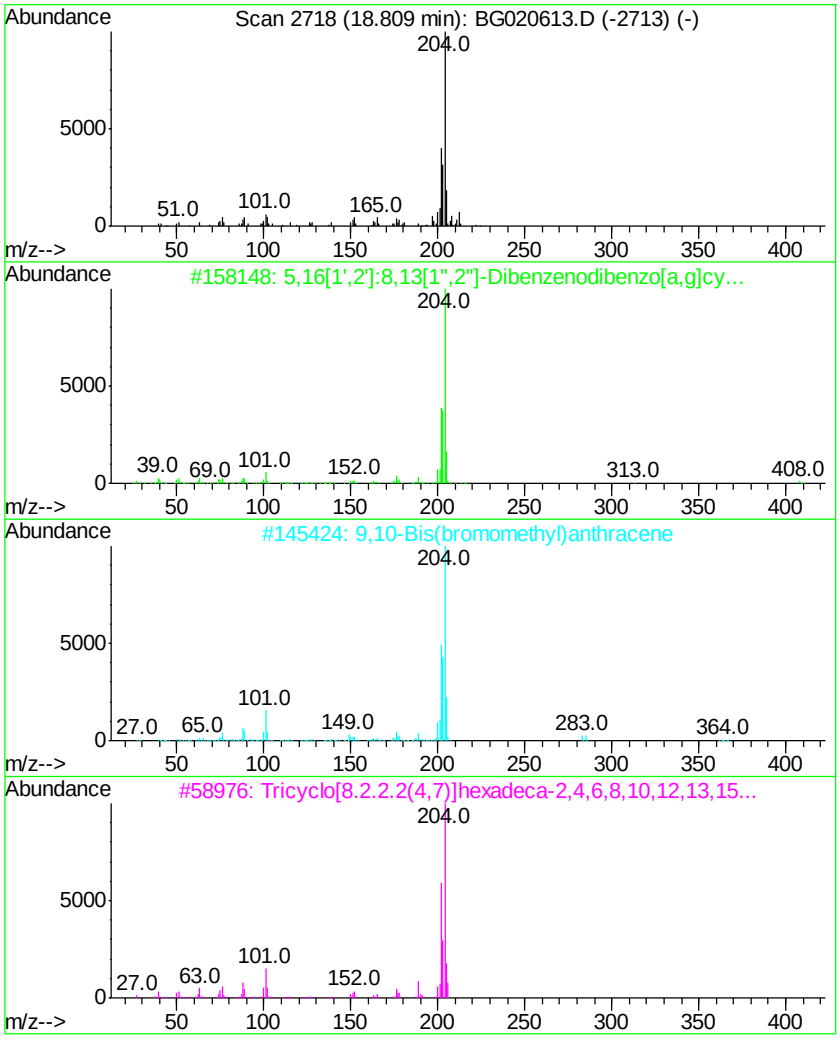
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

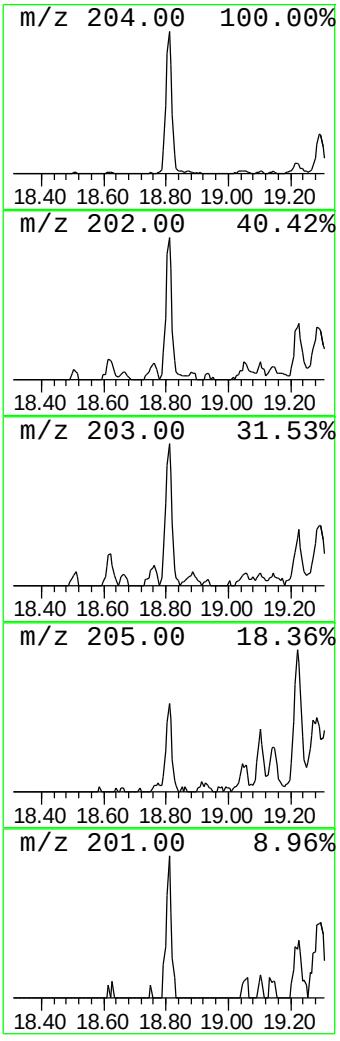
****

Peak Number 6 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.81	4.86 ng/ul	92854	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	78
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	2-Phenylnaphthalene	204	C16H12	035465-71-5	64
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	58





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

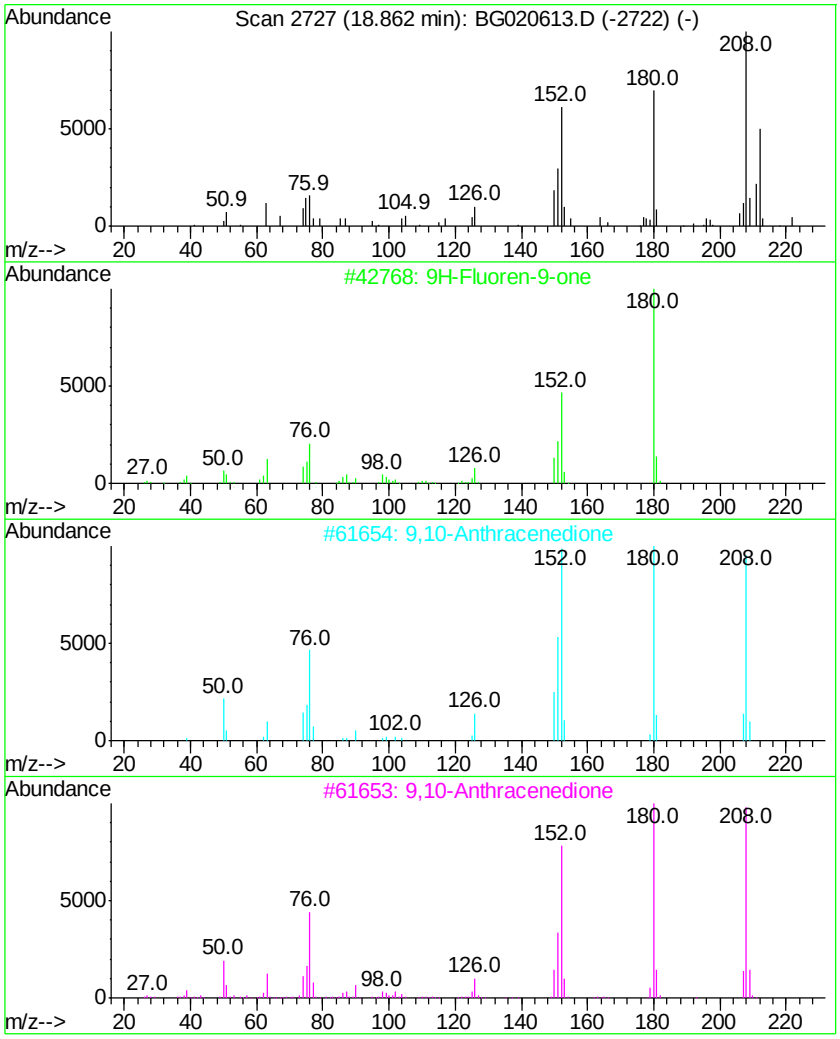
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

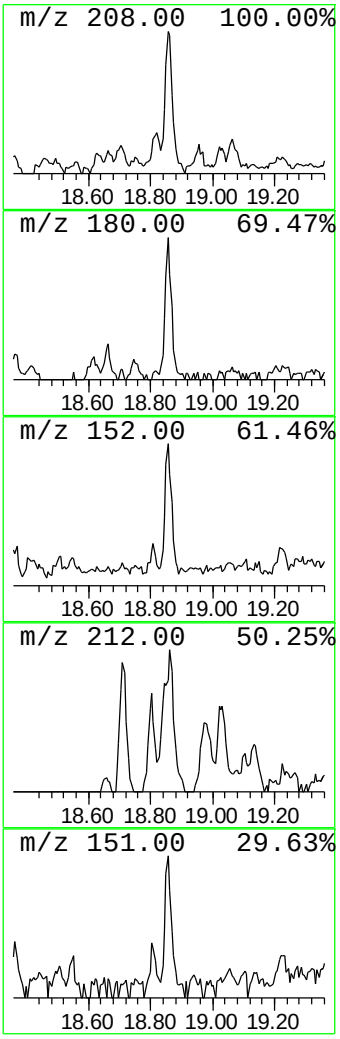
****

Peak Number 7 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	2.90 ng/ul	55264	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	83
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	52





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

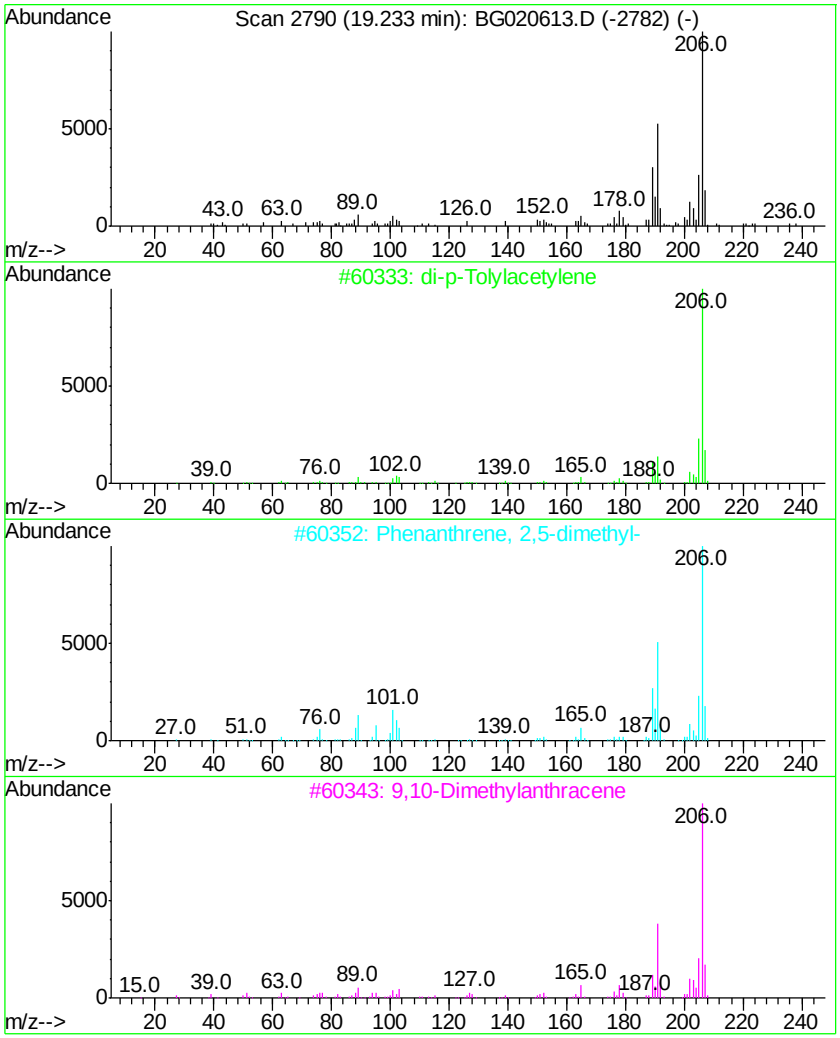
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

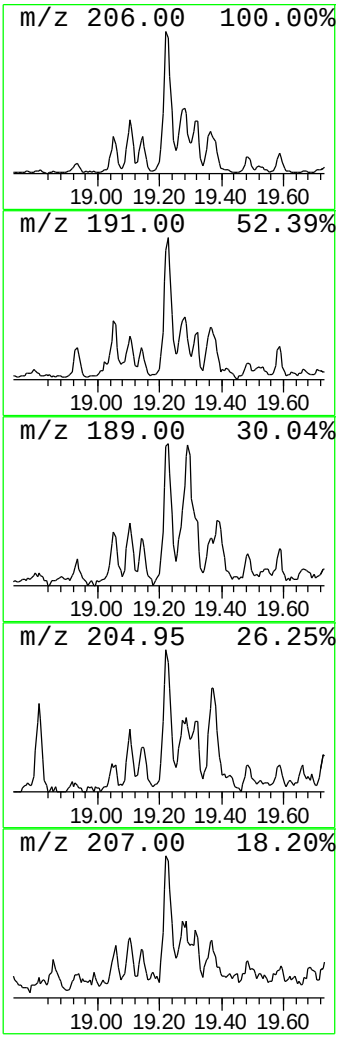
****

Peak Number 8 di-p-Tolylacetylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.23	8.08 ng/ul	154187	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	92
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

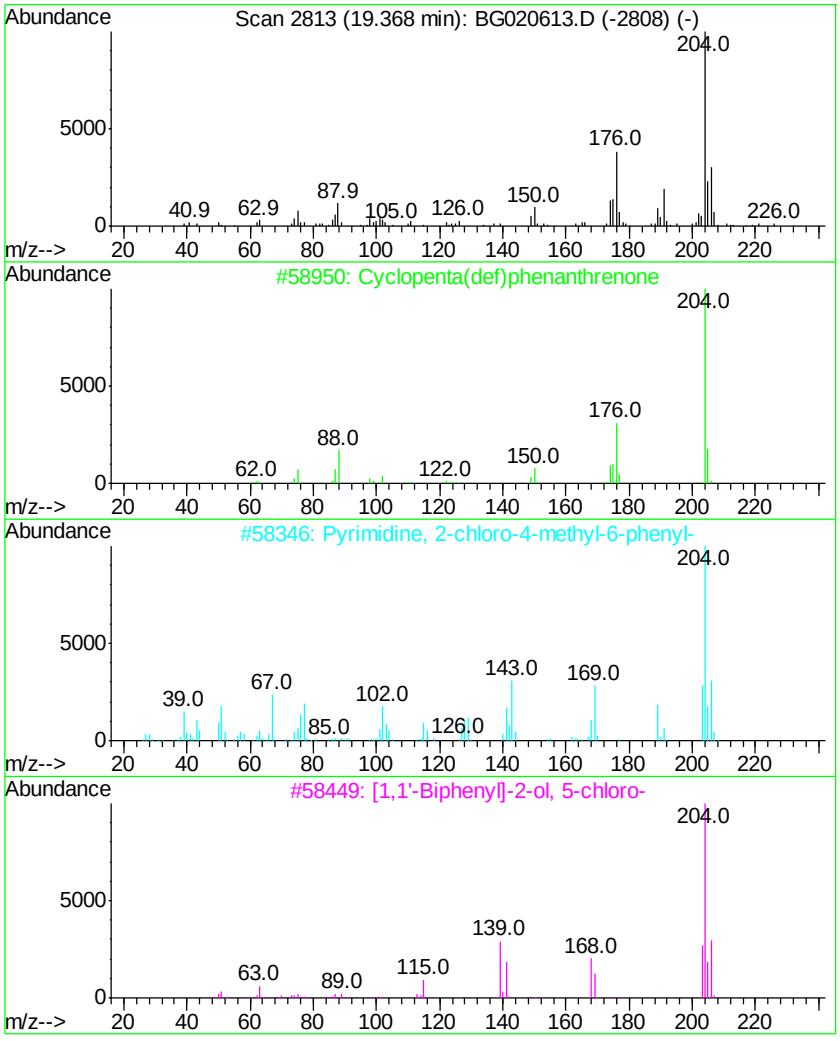
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

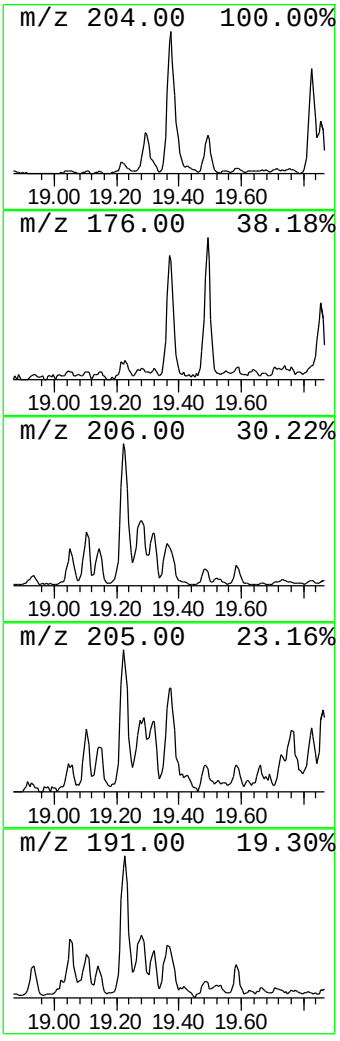
****

Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.37	8.07 ng/ul	153948	Phenanthrene-d10	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	43
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38
5	[1,1'-Biphenyl]-4-ol, 3-chloro-	204	C12H9ClO	000092-04-6	38





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

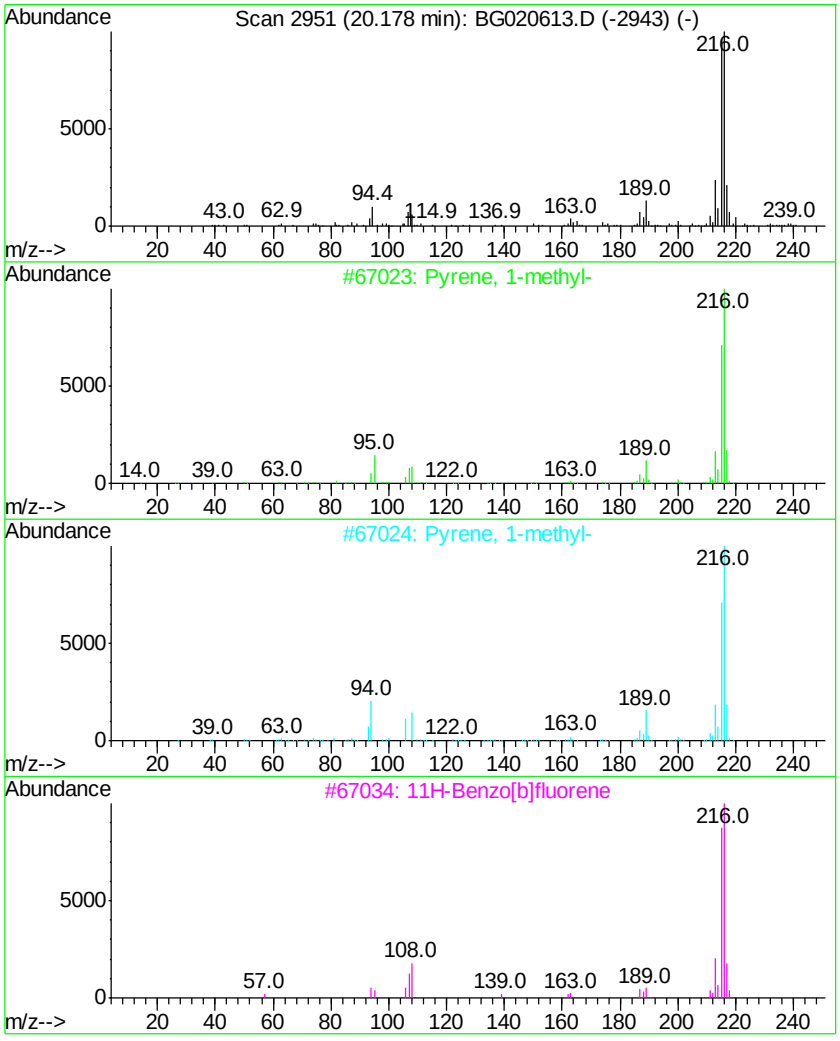
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

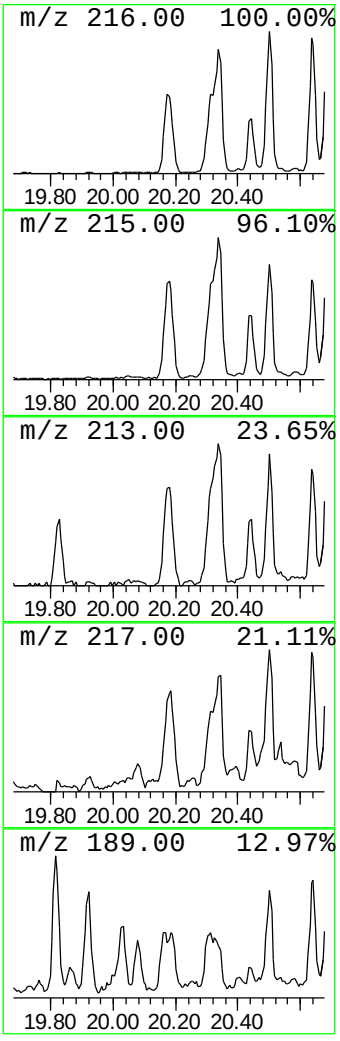
****

Peak Number 11 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.18	3.64 ng/ul	244275	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

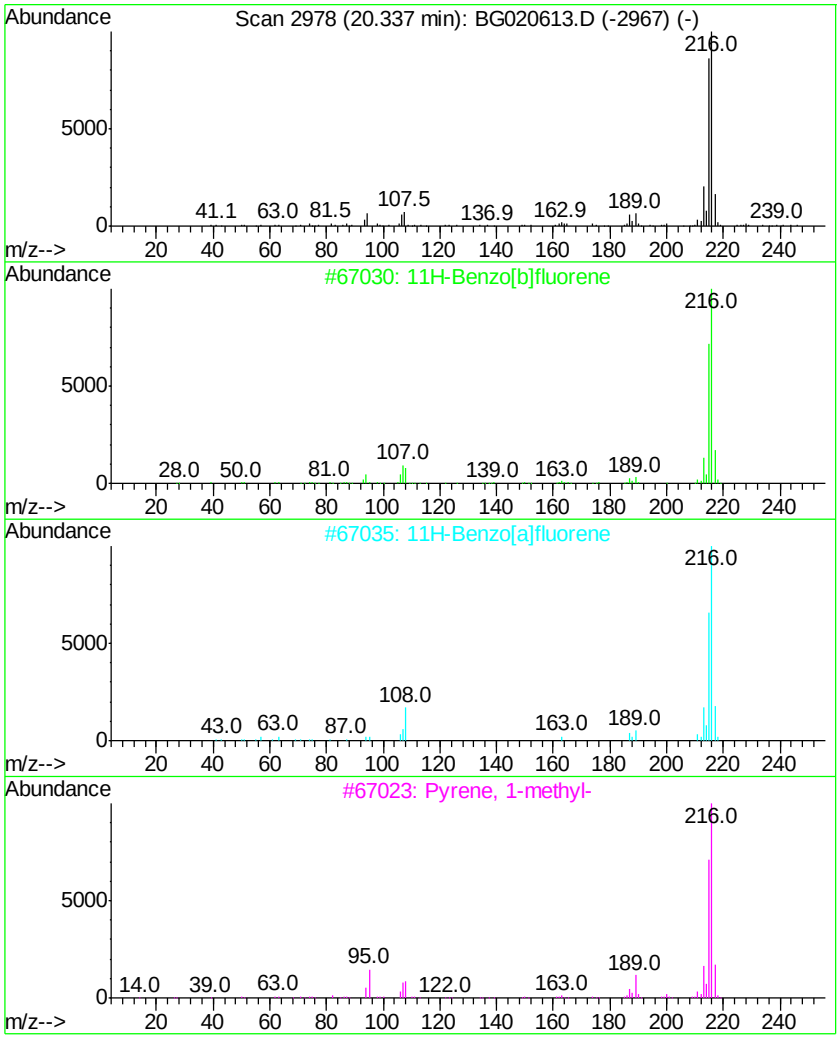
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

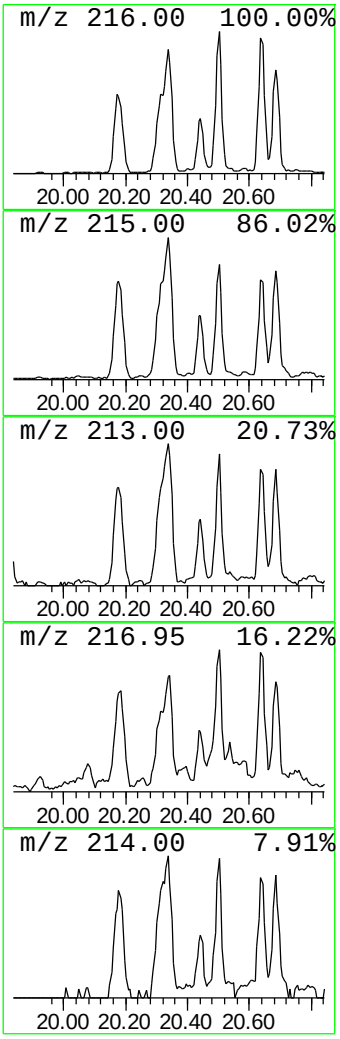
****

Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.34	4.74 ng/ul	318070	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

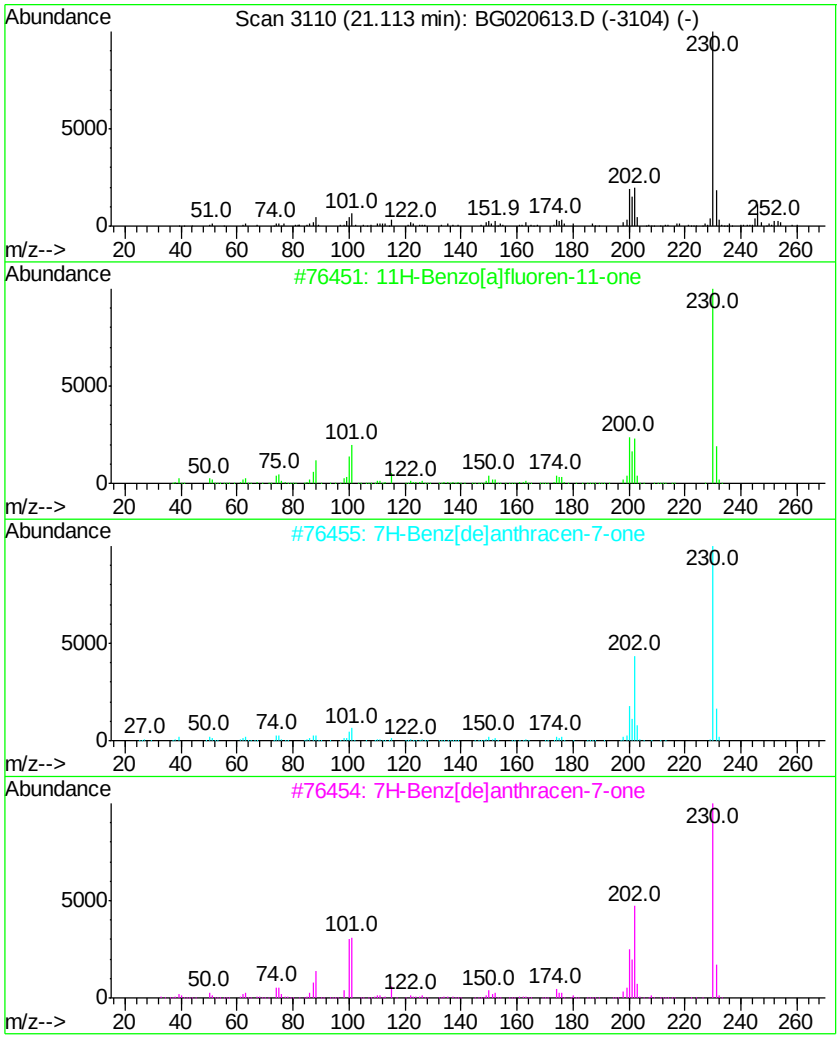
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

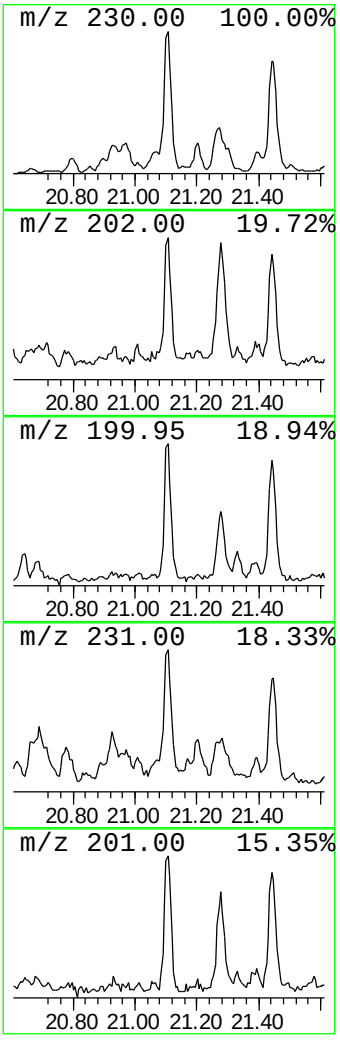
****

Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	2.33 ng/ul	156735	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

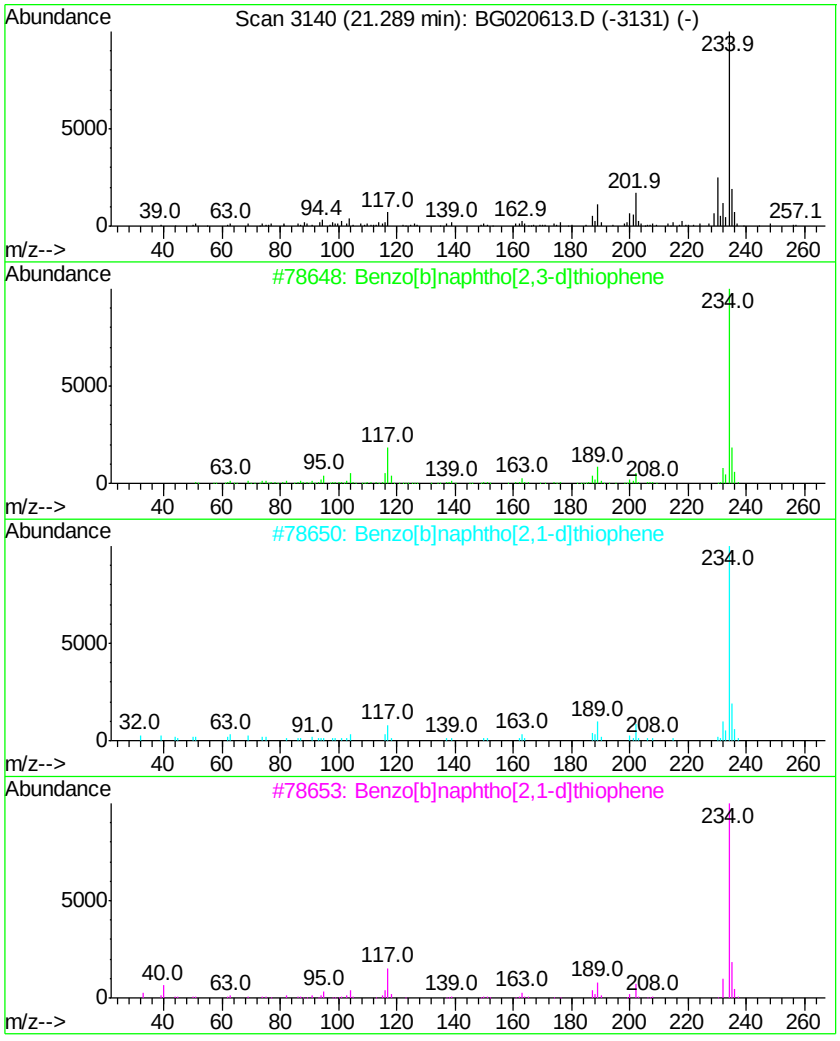
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

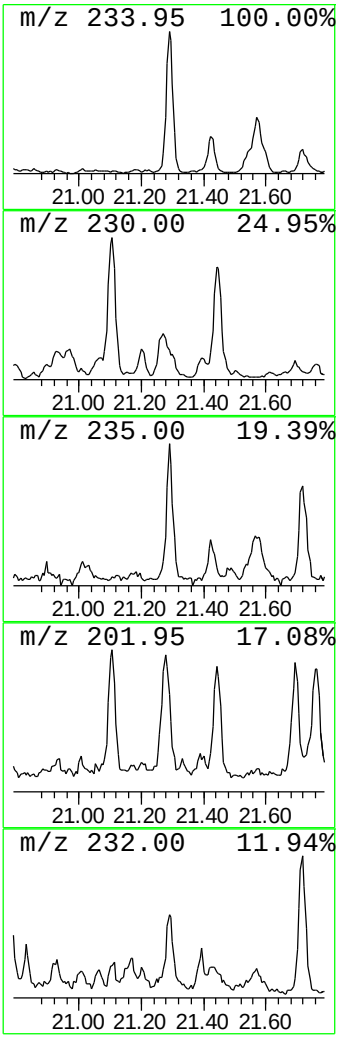
****

Peak Number 17 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.29	2.61 ng/ul	175156	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	81
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	74
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	74
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

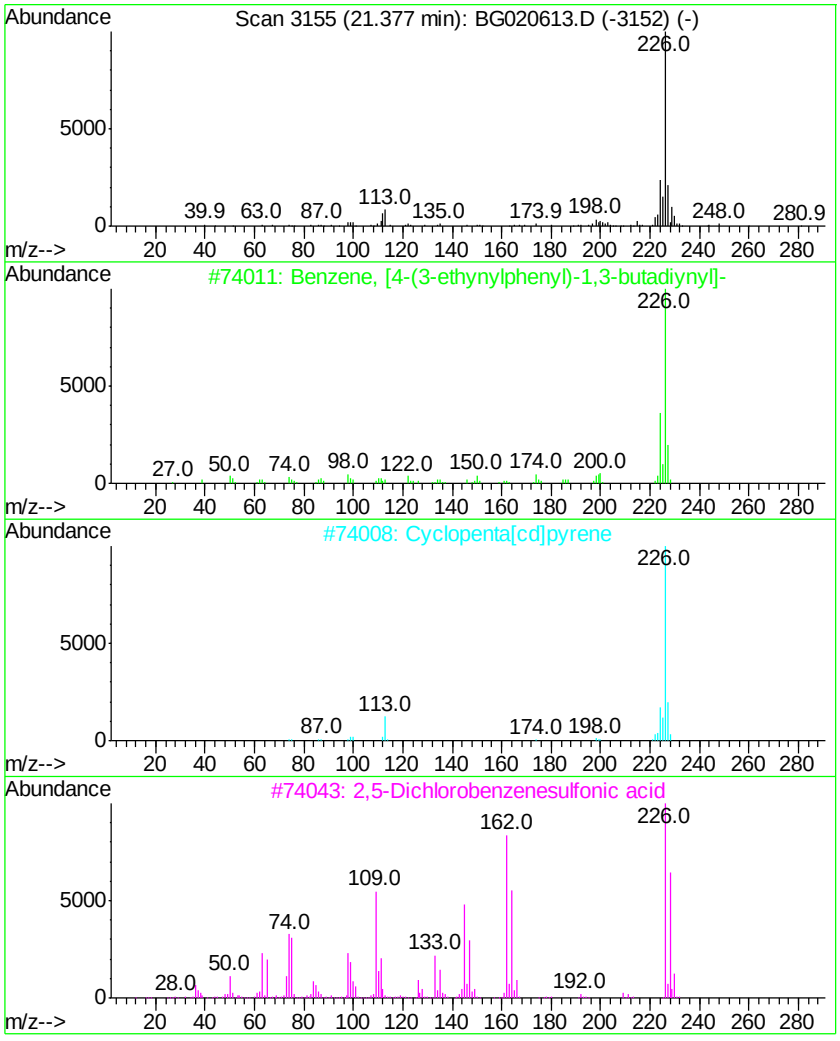
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

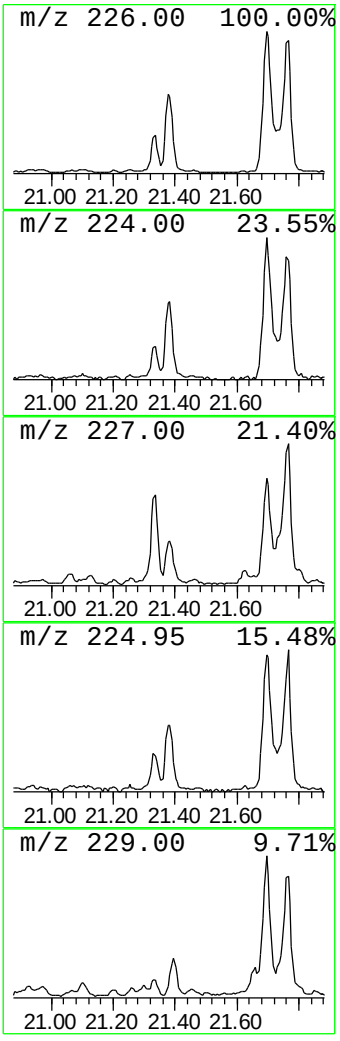
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 Benzene, [4-(3-ethynylpheny... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.38	2.06 ng/ul	138117	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	52
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
3	2,5-Dichlorobenzenesulfonic acid	226	C6H4Cl2O3S	000088-42-6	38
4	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	38
5	6-Methyl-4-phenyl-3-cyanopyridin...	226	C13H10N2S	078564-23-5	38





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

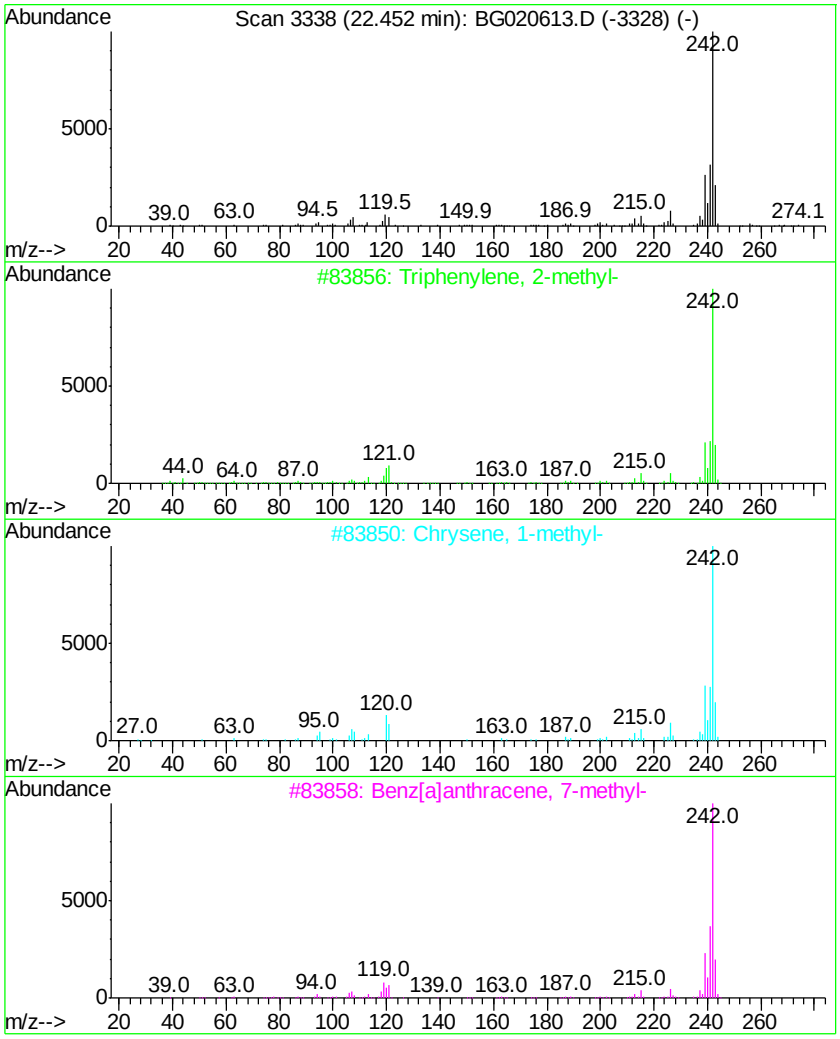
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

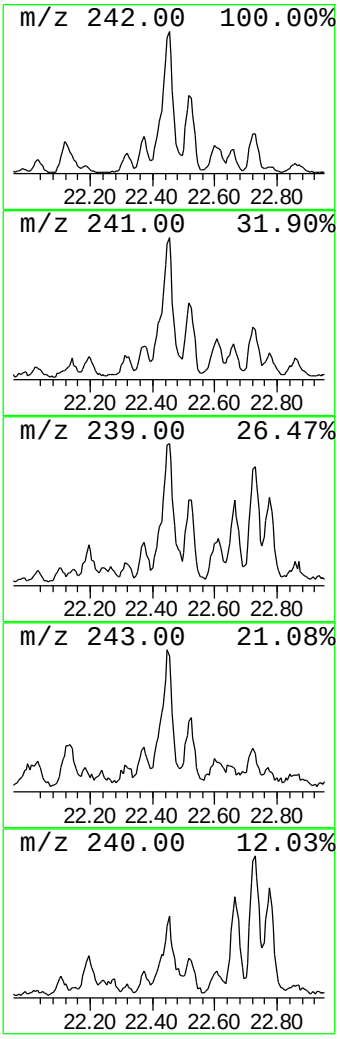
****

Peak Number 20 Triphenylene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.45	3.75 ng/ul	251746	Chrysene-d12	21.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	91
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	91
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	91
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

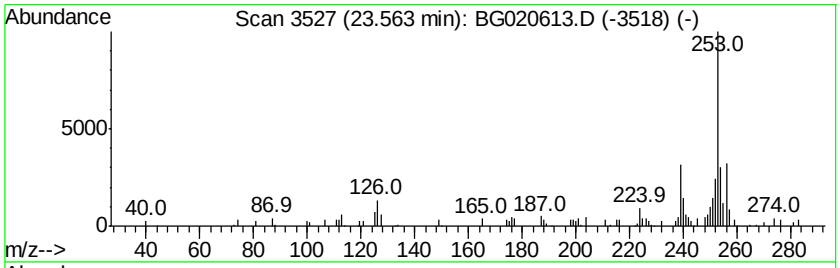
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

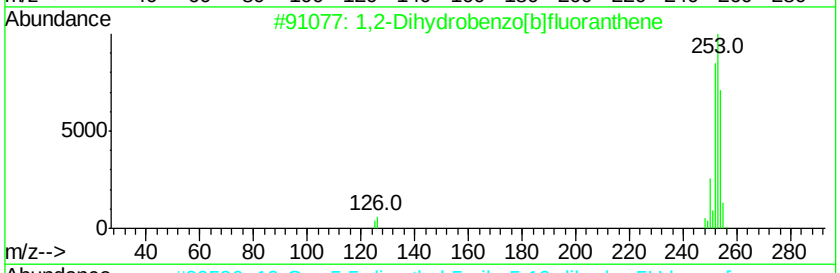
****

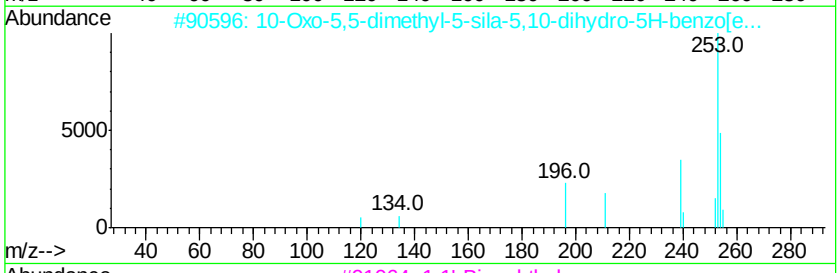
Peak Number 21 unknown-01 Concentration Rank 13

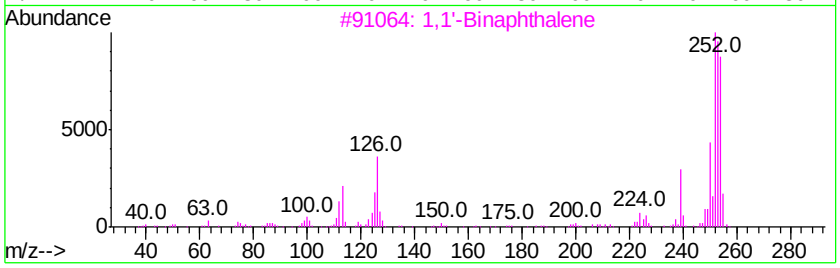
R.T.	EstConc	Area	Relative to ISTD	R.T.
23.56	4.22 ng/ul	101199	Perylene-d12	24.97

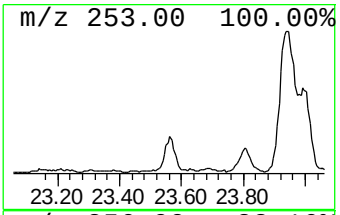
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	46
2	10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	46
3	1,1'-Binaphthalene	254	C20H14	000604-53-5	46
4	11-Oxo-5,5-dimethyl-5-sila-11H-5...	254	C14H14N2OSi	089052-47-1	43
5	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	43

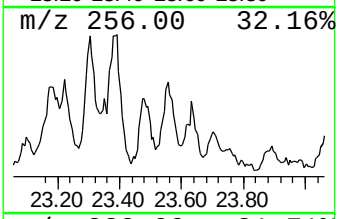


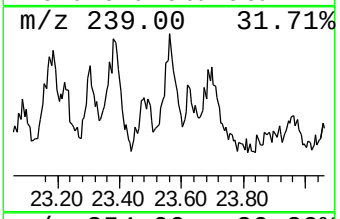


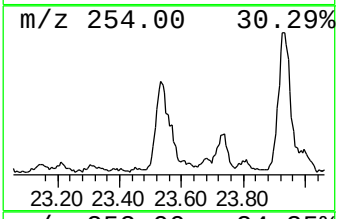


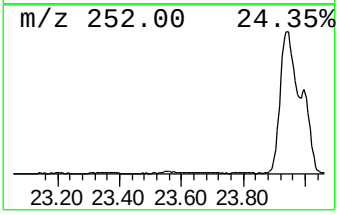












Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

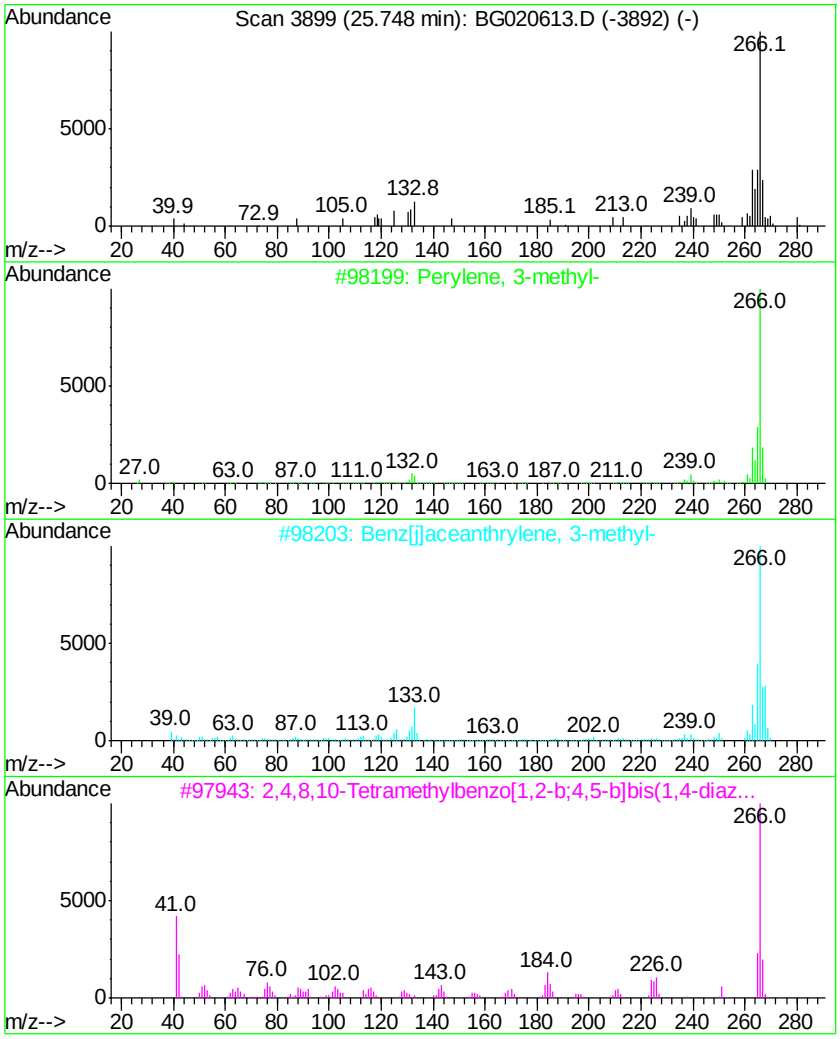
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

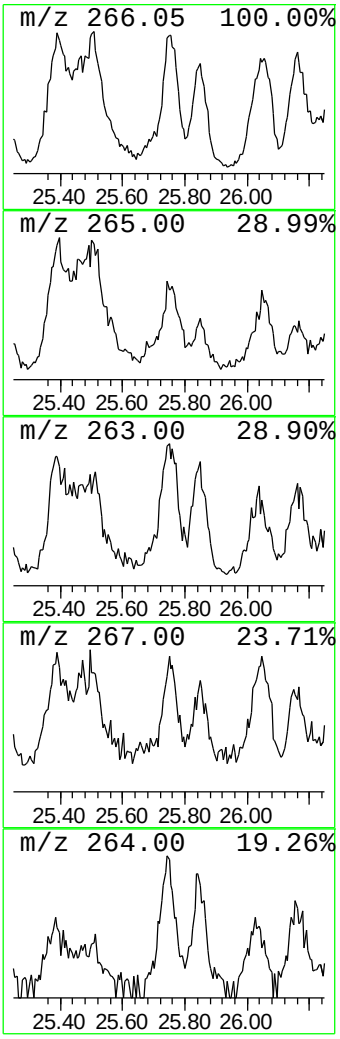
****

Peak Number 25 Perylene, 3-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.75	2.03 ng/ul	48690	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	64
2	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	62
3	2,4,8,10-Tetramethylbenzo[1,2-b;...	266	C16H18N4	017377-04-7	50
4	2,3-Dihydro-7-methyl-5-phenyl-1H...	266	C16H14N2S	002888-60-0	50
5	5-(p-Dimethylaminocinnamoyl)-2-m...	266	C17H18N2O	004625-19-8	50





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

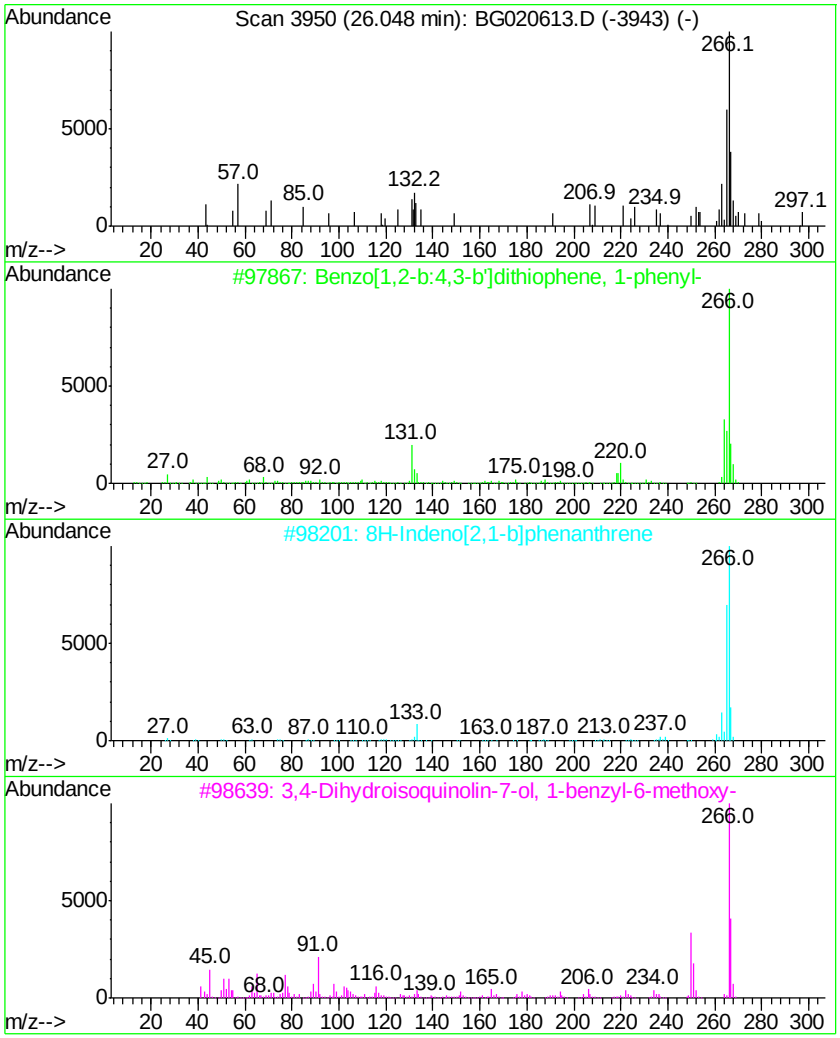
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

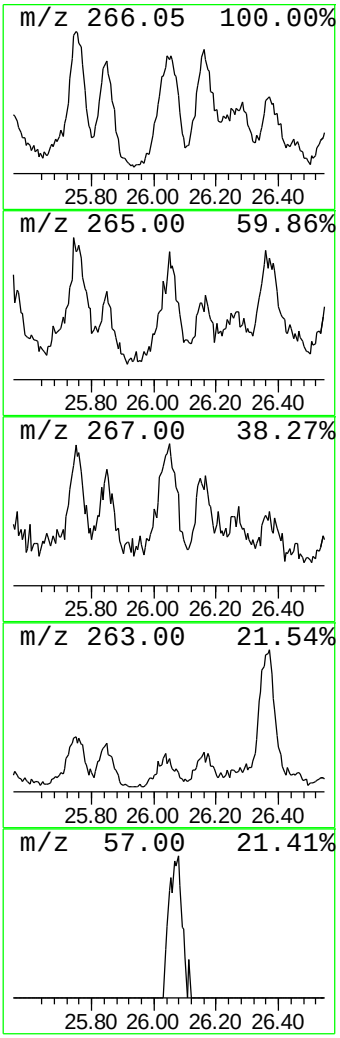
****

Peak Number 26 Benzo[1,2-b:4,3-b']dithioph... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.05	2.39 ng/ul	57343	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	50
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	47
3	3,4-Dihydroisoquinolin-7-ol, 1-b...	267	C17H17NO2	073154-46-8	43
4	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	43
5	Imidazole-5-methanol, 2-ethyl-1-...	266	C17H18N2O	309731-07-5	43





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

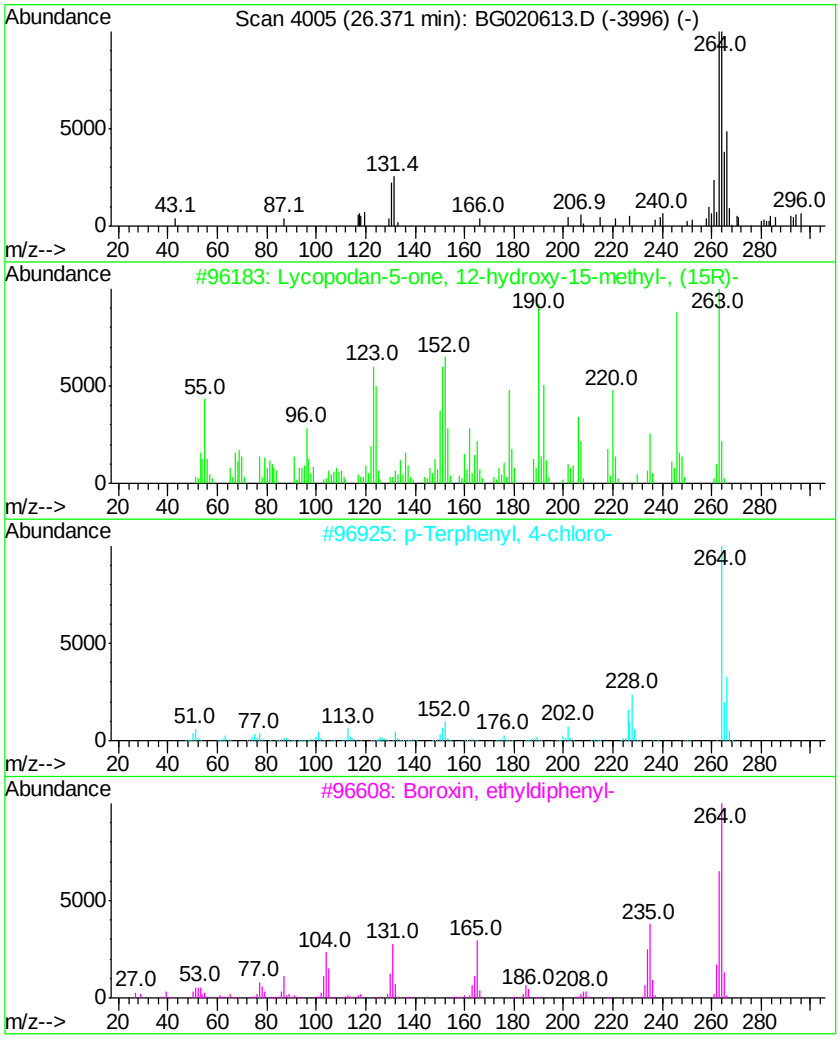
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

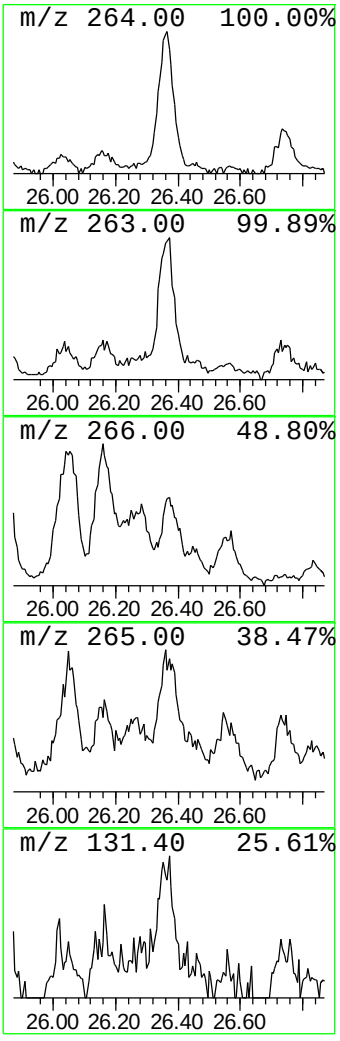
****

Peak Number 27 unknown-02 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.37	2.63 ng/ul	63145	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	47
2	p-Terphenyl, 4-chloro-	264	C18H13Cl	001762-83-0	38
3	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	33
4	Phenothiazine, 2-chloro-3-methoxy-	263	C13H10ClNOS	017800-08-7	27
5	3,5-Dibromobenzaldehyde	262	C7H4Br2O	056990-02-4	25





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

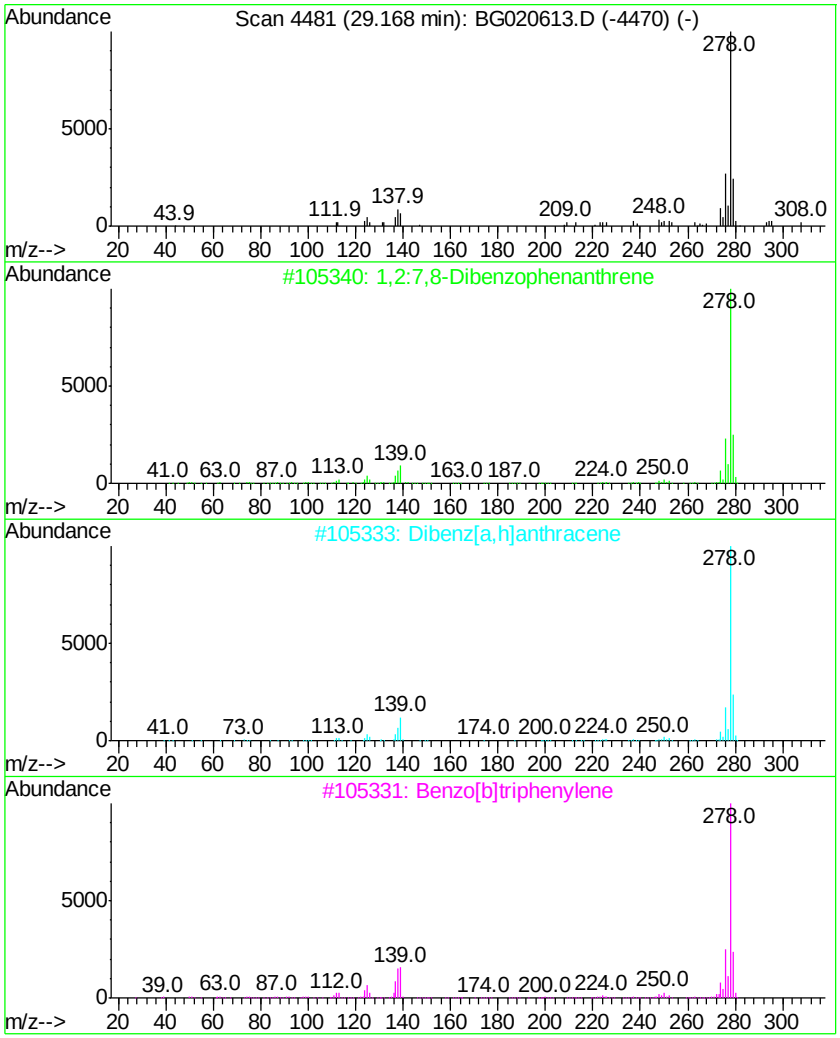
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

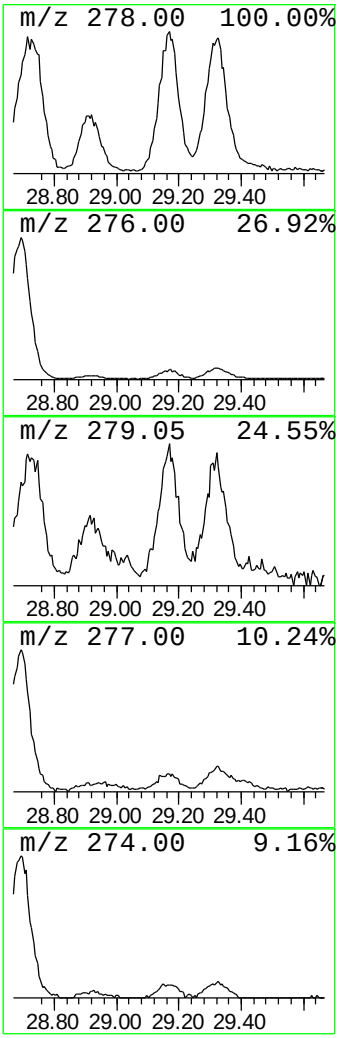
****

Peak Number 28 1,2:7,8-Dibenzophenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.17	3.80 ng/ul	91017	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	89
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	81
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	76





Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

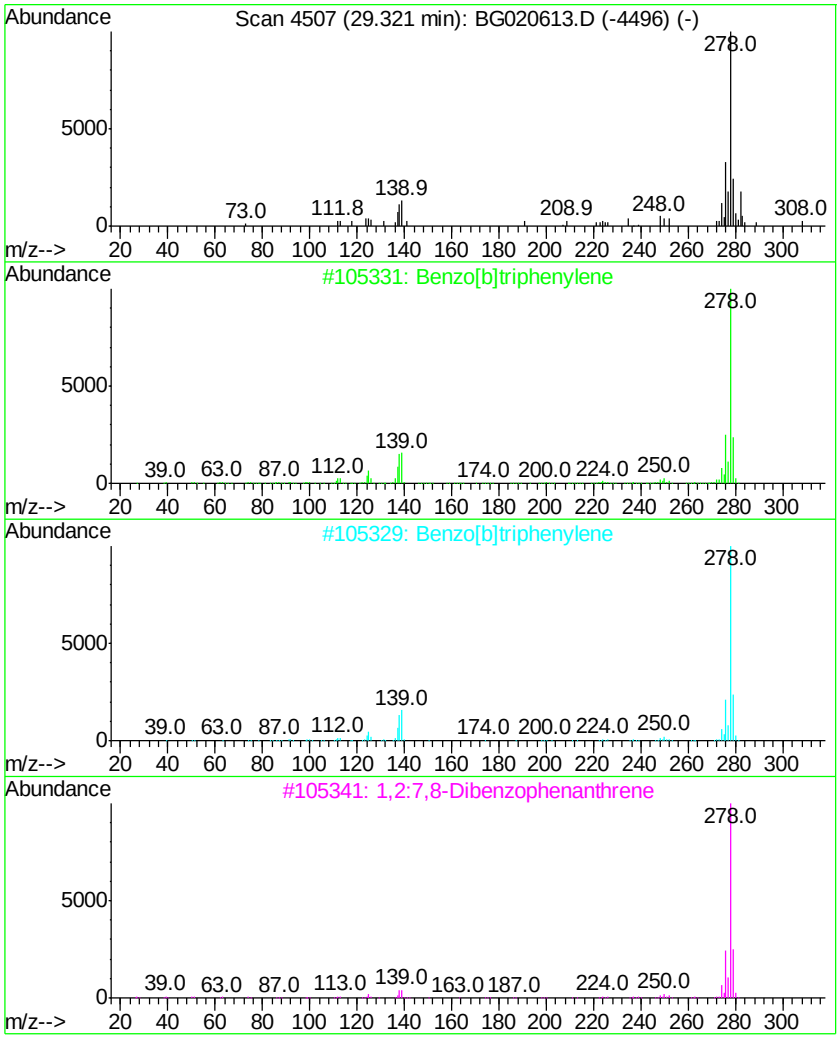
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

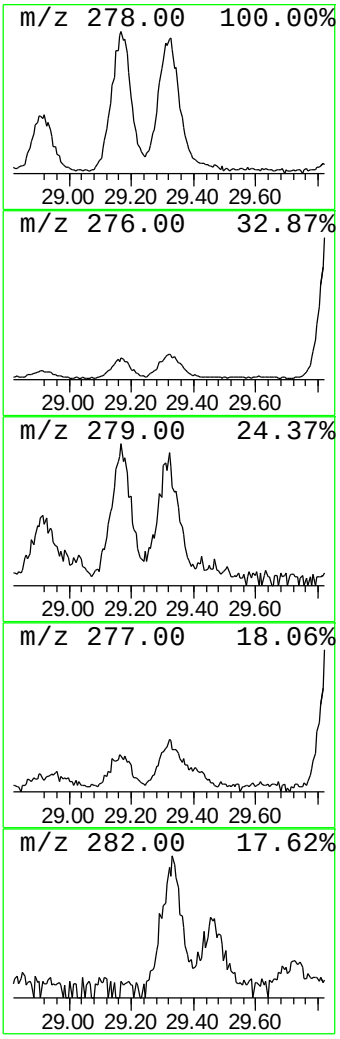
****

Peak Number 29 Benzo[b]triphenylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.32	4.29 ng/ul	102845	Perylene-d12	24.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	91
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	76
4	Pentacene	278	C22H14	000135-48-8	70
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG123015\
Data File : BG020613.D
Acq On : 30 Dec 2015 17:53
Operator : UM/SJ
Sample : G4802-19DL 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G9D94DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG123015.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Phenanthrene, 2-m...	18.32	6.5	ng/ul	123949	4	17.44	381755	20.0
Anthracene, 1-met...	18.45	2.8	ng/ul	52747	4	17.44	381755	20.0
4H-Cyclopenta[def...	18.51	11.9	ng/ul	227330	4	17.44	381755	20.0
Anthracene, 9-met...	18.55	4.4	ng/ul	83595	4	17.44	381755	20.0
5,16[1',2']:8,13[...	18.81	4.9	ng/ul	92854	4	17.44	381755	20.0
9H-Fluoren-9-one	18.86	2.9	ng/ul	55264	4	17.44	381755	20.0
di-p-Tolylacetylene	19.23	8.1	ng/ul	154187	4	17.44	381755	20.0
Cyclopenta(def)ph...	19.37	8.1	ng/ul	153948	4	17.44	381755	20.0
Pyrene, 1-methyl-	20.18	3.6	ng/ul	244275	5	21.72	1342700	20.0
11H-Benzo[b]fluorene	20.34	4.7	ng/ul	318070	5	21.72	1342700	20.0
11H-Benzo[a]fluor...	21.11	2.3	ng/ul	156735	5	21.72	1342700	20.0
Benzo[b]naphtho[2...	21.29	2.6	ng/ul	175156	5	21.72	1342700	20.0
Benzene, [4-(3-et...	21.38	2.1	ng/ul	138117	5	21.72	1342700	20.0
Triphenylene, 2-m...	22.45	3.8	ng/ul	251746	5	21.72	1342700	20.0
unknown-01	23.56	4.2	ng/ul	101199	6	24.97	479529	20.0
Perylene, 3-methyl-	25.75	2.0	ng/ul	48690	6	24.97	479529	20.0
Benzo[1,2-b:4,3-b...	26.05	2.4	ng/ul	57343	6	24.97	479529	20.0
unknown-02	26.37	2.6	ng/ul	63145	6	24.97	479529	20.0
1,2:7,8-Dibenzoph...	29.17	3.8	ng/ul	91017	6	24.97	479529	20.0
Benzo[b]triphenylene	29.32	4.3	ng/ul	102845	6	24.97	479529	20.0