

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\
 Data File : BG025300.D
 Acq On : 18 Dec 2016 7:58
 Operator : UM/SJ
 Sample : H5860-13DL 2X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA8E0DL

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.1
 Stop Thrs : 0

Filtering: 5
 Min Area: 0.1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 1

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.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	3.267	69	73	81	rVB4	15741	23444	0.54%	0.053%
2	3.355	85	88	94	rVB7	13597	24437	0.57%	0.055%
3	3.584	124	127	133	rVB8	7322	12843	0.30%	0.029%
4	4.031	199	203	206	rBV6	5947	11117	0.26%	0.025%
5	4.119	211	218	225	rBV6	15612	35527	0.83%	0.080%
6	4.354	255	258	264	rVB6	6962	10259	0.24%	0.023%
7	4.912	348	353	358	rBV7	5702	14779	0.34%	0.033%
8	5.306	415	420	424	rBV6	6882	14007	0.33%	0.032%
9	7.250	746	751	759	rBV7	4399	9179	0.21%	0.021%
10	7.397	766	776	787	rBV3	113405	263981	6.14%	0.596%
11	7.544	795	801	813	rVB	83005	155411	3.61%	0.351%
12	7.768	830	839	847	rBV2	116158	232938	5.41%	0.526%
13	8.232	908	918	930	rVV	344294	643246	14.95%	1.453%
14	8.948	1032	1040	1055	rBV2	127463	279711	6.50%	0.632%
15	9.419	1110	1120	1133	rVV3	120596	249572	5.80%	0.564%
16	10.141	1236	1243	1252	rBV3	117526	226784	5.27%	0.512%
17	10.694	1329	1337	1350	rBV	139014	298274	6.93%	0.674%
18	11.058	1391	1399	1409	rBV	473668	876854	20.38%	1.981%
19	11.216	1417	1426	1436	rBV4	32953	87636	2.04%	0.198%
20	12.221	1592	1597	1601	rBV4	5308	9217	0.21%	0.021%
21	12.509	1642	1646	1650	rBV5	5963	11290	0.26%	0.026%
22	13.708	1843	1850	1854	rBV7	7428	12108	0.28%	0.027%
23	14.248	1936	1942	1946	rBV	308117	472386	10.98%	1.067%
24	14.295	1947	1950	1959	rVB	72275	108655	2.53%	0.245%
25	14.495	1978	1984	1987	rVB6	6469	10715	0.25%	0.024%
26	14.554	1987	1994	2003	rBV	306971	517593	12.03%	1.169%
27	14.689	2014	2017	2022	rVB6	7826	10687	0.25%	0.024%
28	14.853	2037	2045	2052	rBV	800170	1267585	29.46%	2.863%
29	14.918	2052	2056	2061	rVB5	17674	27929	0.65%	0.063%
30	15.094	2080	2086	2100	rBV3	89363	226451	5.26%	0.512%
31	15.253	2105	2113	2120	rVV7	15304	37191	0.86%	0.084%
32	15.312	2120	2123	2127	rVB4	7841	9608	0.22%	0.022%
33	15.600	2167	2172	2175	rBV4	7057	14569	0.34%	0.033%
34	15.635	2175	2178	2187	rVB5	22857	39974	0.93%	0.090%

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35	15.746	2194	2197	2200	rBV5	5500	9798	0.23%	0.022%
36	15.840	2207	2213	2219	rBV	447527	702986	16.34%	1.588%
37	15.899	2220	2223	2232	rVB3	28953	48477	1.13%	0.110%
38	15.987	2232	2238	2250	rBV4	96922	229343	5.33%	0.518%
39	16.193	2268	2273	2278	rVB9	12736	20235	0.47%	0.046%
40	16.328	2293	2296	2305	rBV10	12193	25164	0.58%	0.057%
41	16.498	2320	2325	2333	rVB4	23921	45176	1.05%	0.102%
42	16.581	2335	2339	2345	rBV9	8263	16054	0.37%	0.036%
43	16.686	2351	2357	2360	rBV8	7384	12137	0.28%	0.027%
44	16.857	2383	2386	2389	rBV5	8762	13823	0.32%	0.031%
45	16.892	2391	2392	2398	rVB5	13331	12872	0.30%	0.029%
46	16.945	2398	2401	2405	rBV6	7446	12431	0.29%	0.028%
47	17.115	2427	2430	2435	rBV7	8922	12786	0.30%	0.029%
48	17.262	2446	2455	2459	rBV2	49225	108635	2.52%	0.245%
49	17.421	2477	2482	2488	rVB	36724	62099	1.44%	0.140%
50	17.521	2493	2499	2501	rBV7	9549	14725	0.34%	0.033%
51	17.597	2504	2512	2516	rBV2	1026842	1657393	38.52%	3.744%
52	17.644	2516	2520	2524	rVV	839229	1264397	29.39%	2.856%
53	17.697	2524	2529	2542	rVB	483041	884013	20.55%	1.997%
54	17.797	2542	2546	2551	rBV2	27337	48790	1.13%	0.110%
55	18.008	2574	2582	2591	rBV2	163329	318291	7.40%	0.719%
56	18.102	2595	2598	2607	rBV9	26904	45349	1.05%	0.102%
57	18.185	2607	2612	2617	rBV7	21553	41416	0.96%	0.094%
58	18.285	2626	2629	2631	rBV4	9244	11718	0.27%	0.026%
59	18.432	2645	2654	2656	rBV8	73263	119460	2.78%	0.270%
60	18.467	2657	2660	2665	rVV2	91062	156345	3.63%	0.353%
61	18.520	2665	2669	2676	rVB	135497	213793	4.97%	0.483%
62	18.602	2678	2683	2687	rBV7	18306	23151	0.54%	0.052%
63	18.667	2687	2694	2698	rBV2	140657	282547	6.57%	0.638%
64	18.813	2715	2719	2723	rBV7	23400	39505	0.92%	0.089%
65	18.954	2738	2743	2748	rBV	108262	153456	3.57%	0.347%
66	19.013	2748	2753	2760	rVB	400405	579946	13.48%	1.310%
67	19.195	2781	2784	2789	rVB6	31054	45948	1.07%	0.104%
68	19.248	2790	2793	2797	rVV4	26852	34974	0.81%	0.079%
69	19.295	2797	2801	2806	rVB7	31056	42933	1.00%	0.097%
70	19.366	2809	2813	2817	rBV3	46839	70160	1.63%	0.158%
71	19.419	2817	2822	2828	rBV3	67478	127302	2.96%	0.288%

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72	19.524	2835	2840	2848	rBV	146012	223022	5.18%	0.504%
73	19.642	2852	2860	2866	rBV	2921479	4302809	100.00%	9.720%
74	19.836	2889	2893	2895	rBV4	75825	96040	2.23%	0.217%
75	19.889	2899	2902	2908	rVB	87816	139463	3.24%	0.315%
76	19.971	2908	2916	2918	rBV3	924719	1539838	35.79%	3.479%
77	20.000	2918	2921	2927	rVB	2267811	3246419	75.45%	7.334%
78	20.059	2928	2931	2936	rVB	105356	146429	3.40%	0.331%
79	20.171	2946	2950	2955	rBV	140027	173137	4.02%	0.391%
80	20.312	2968	2974	2981	rBV4	142311	318202	7.40%	0.719%
81	20.376	2982	2985	2990	rVB2	55881	84463	1.96%	0.191%
82	20.482	2991	3003	3009	rVV3	199416	541454	12.58%	1.223%
83	20.582	3015	3020	3023	rBV	97409	154660	3.59%	0.349%
84	20.641	3024	3030	3033	rVV3	119112	215474	5.01%	0.487%
85	20.782	3051	3054	3058	rBV	66483	96985	2.25%	0.219%
86	21.269	3132	3137	3148	rVB	343067	559591	13.01%	1.264%
87	21.457	3162	3169	3173	rBV3	334099	708733	16.47%	1.601%
88	21.557	3181	3186	3190	rBV3	221705	388615	9.03%	0.878%
89	21.616	3191	3196	3206	rVB2	357102	649681	15.10%	1.468%
90	21.892	3234	3243	3248	rBV3	1504197	4040735	93.91%	9.128%
91	21.945	3248	3252	3266	rVB	1191190	2152796	50.03%	4.863%
92	22.104	3276	3279	3284	rVB2	111900	160710	3.74%	0.363%
93	22.186	3289	3293	3302	rVB5	94861	211009	4.90%	0.477%
94	22.327	3313	3317	3324	rVB3	151488	308437	7.17%	0.697%
95	24.231	3631	3641	3649	rBV2	945912	3378621	78.52%	7.632%
96	24.994	3764	3771	3779	rBV2	421020	1167037	27.12%	2.636%
97	25.083	3781	3786	3792	rBV3	167761	374150	8.70%	0.845%
98	25.165	3793	3800	3812	rVB2	548908	1734653	40.31%	3.919%
99	25.323	3818	3827	3835	rBV2	643234	1791990	41.65%	4.048%
100	29.266	4491	4498	4519	rVB2	360863	1608366	37.38%	3.633%

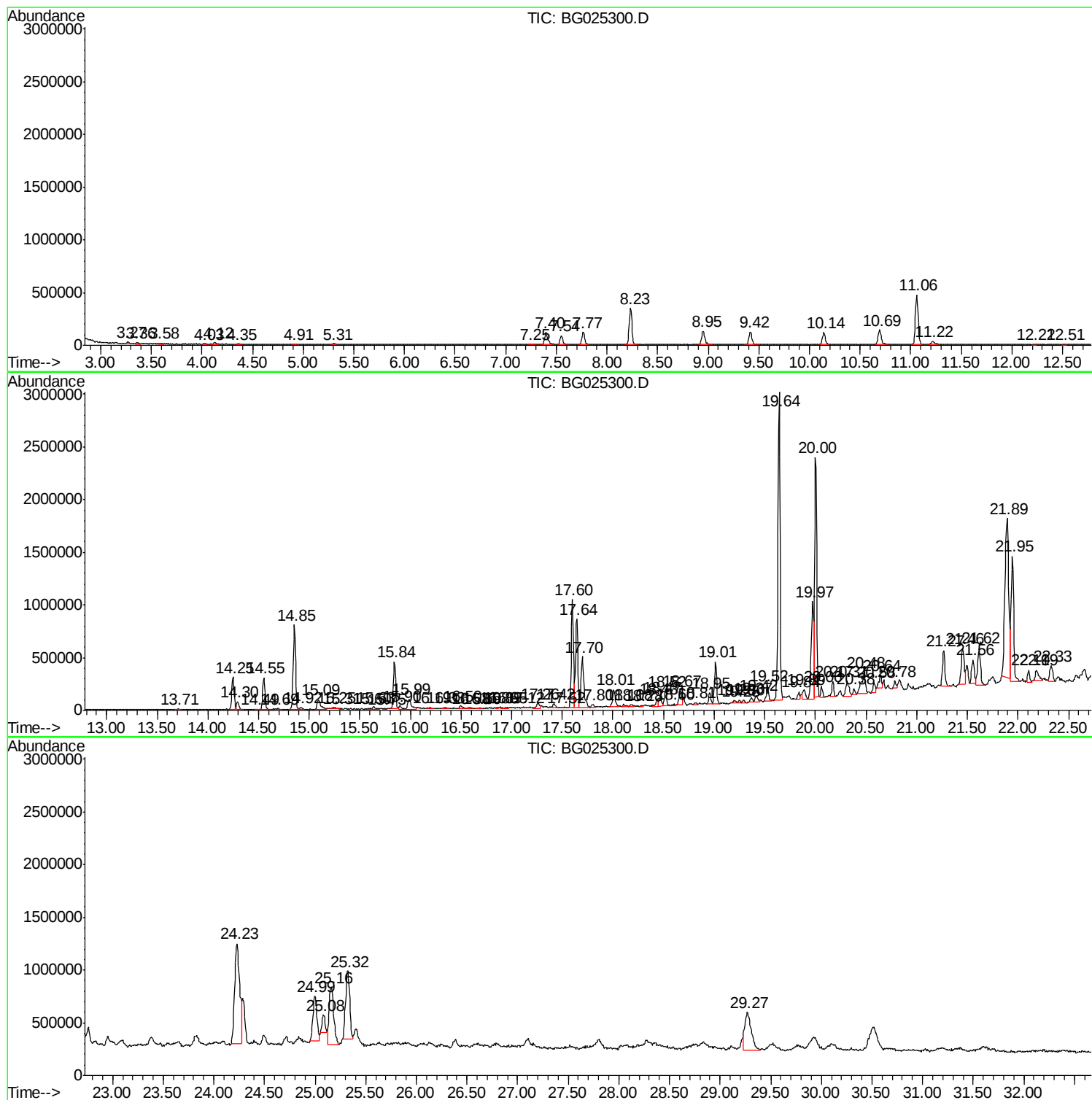
Sum of corrected areas: 44267104

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION

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



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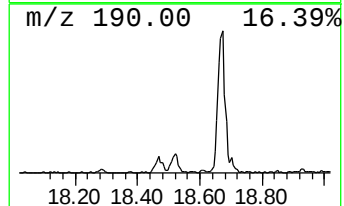
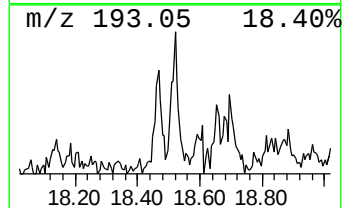
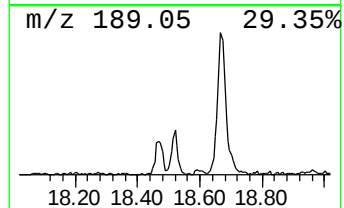
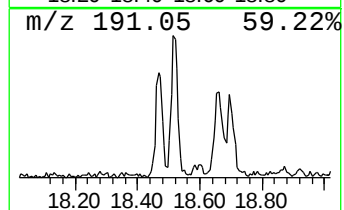
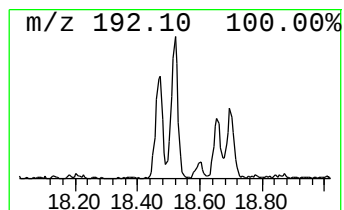
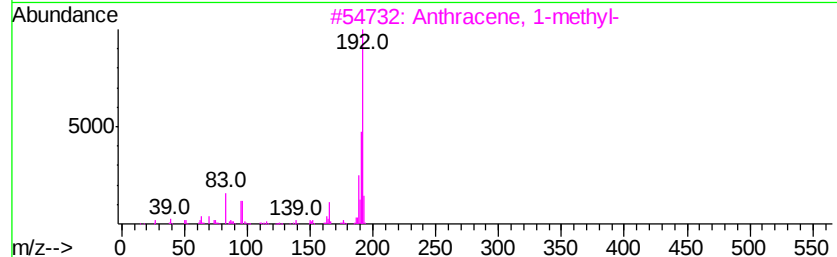
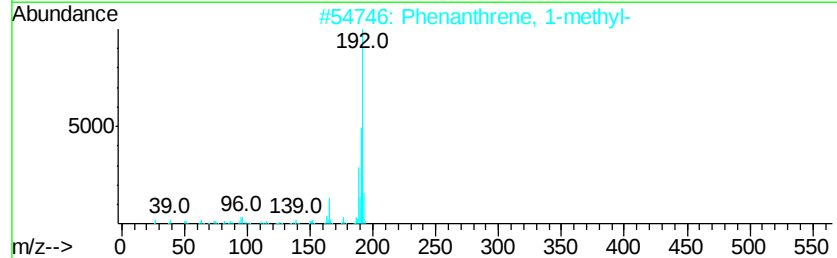
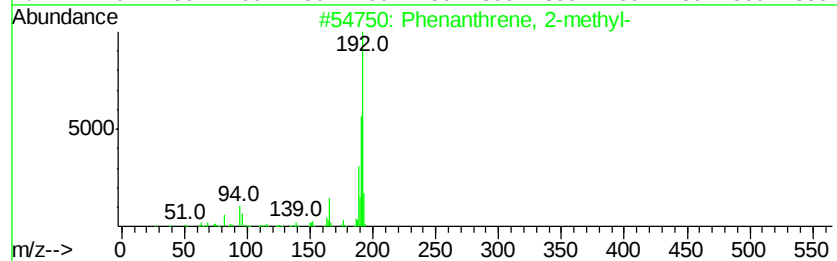
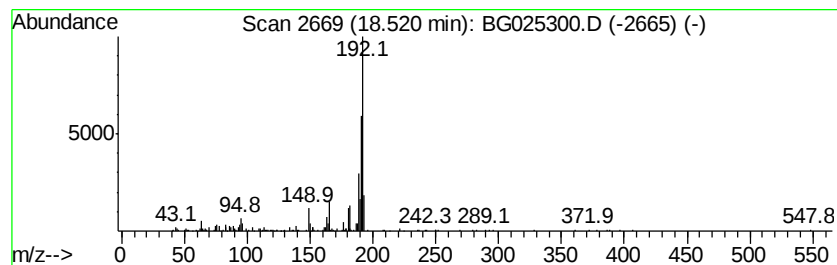
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION

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

Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.52	2.58 ng/ul	213793	Phenanthrene-d10	17.60

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	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	89
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	89
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	89



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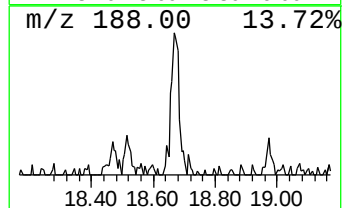
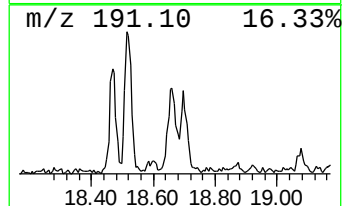
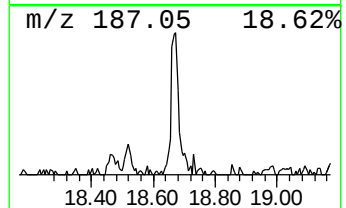
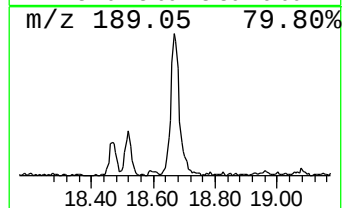
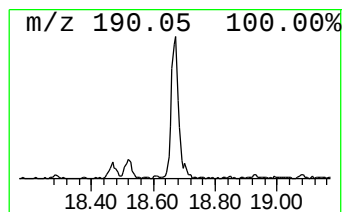
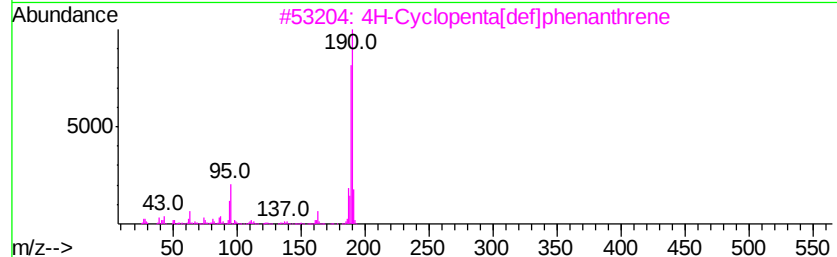
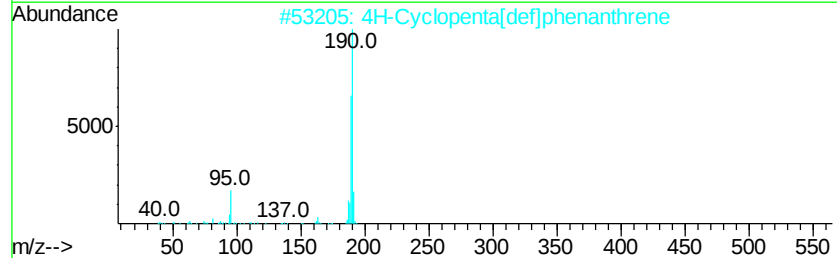
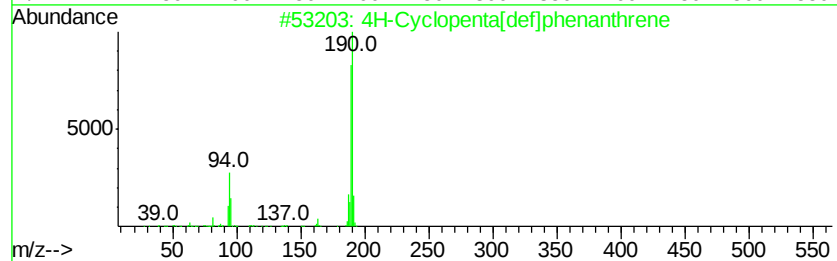
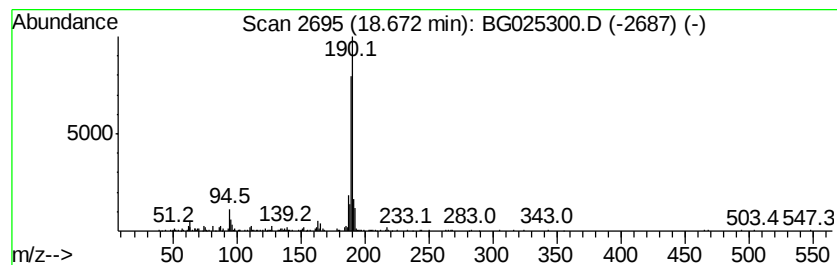
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	3.41 ng/ul	282547	Phenanthrene-d10	17.60

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	74
2		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	72
3		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
4		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	36
5		1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25



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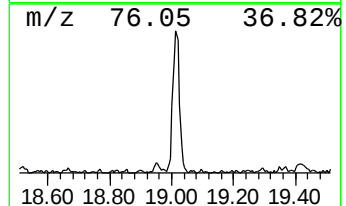
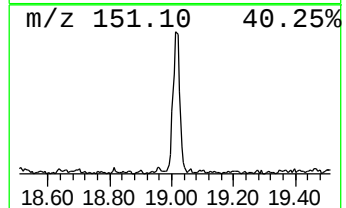
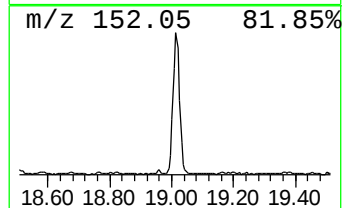
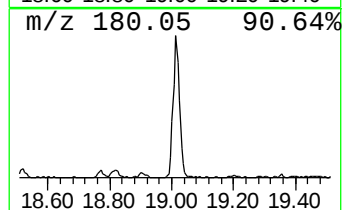
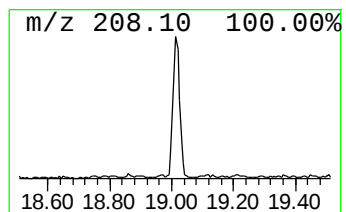
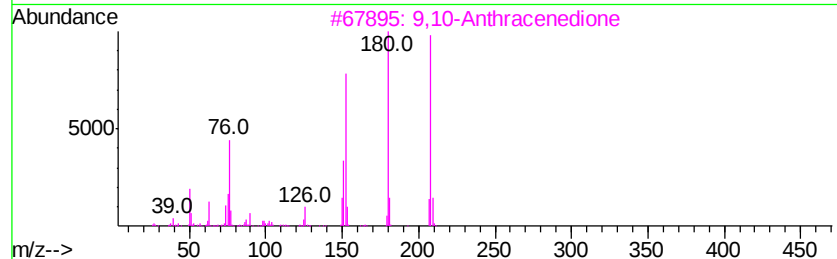
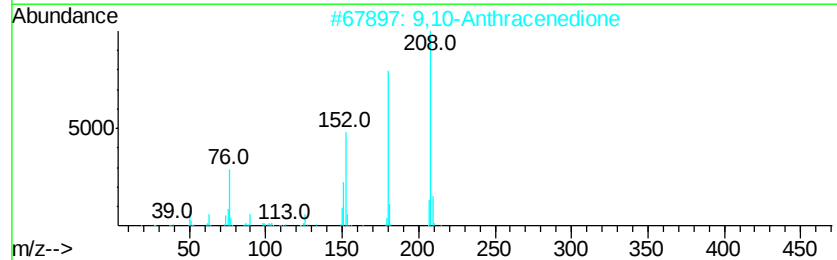
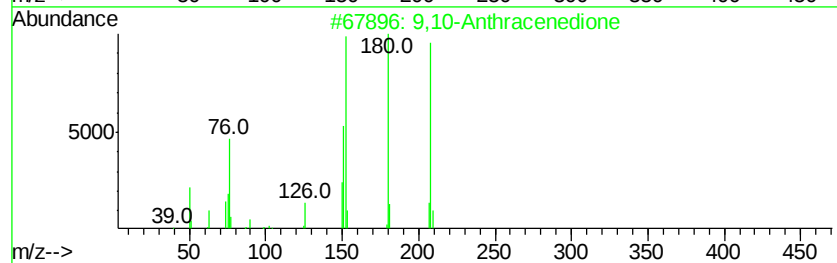
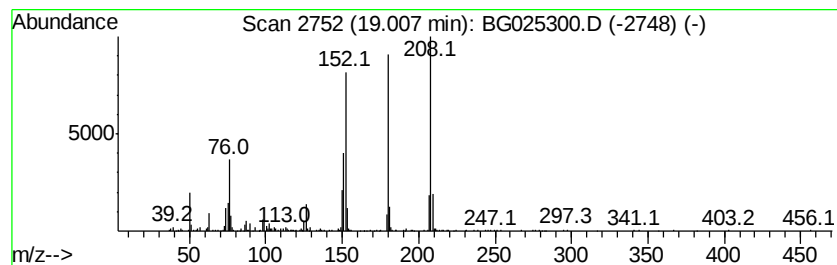
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Peak Number 3 9,10-Anthracenedione Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.01	7.00 ng/ul	579946	Phenanthrene-d10	17.60

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2		9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3		9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
5		5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	64



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\
Data File : BG025300.D
Acq On : 18 Dec 2016 7:58
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Sample : H5860-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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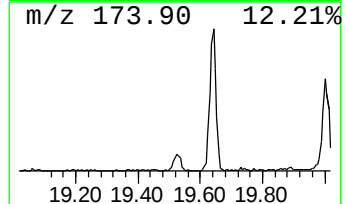
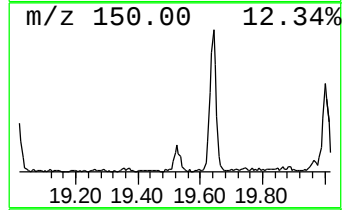
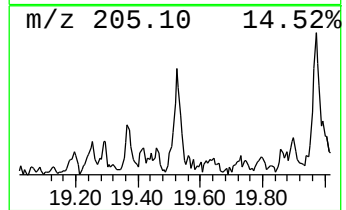
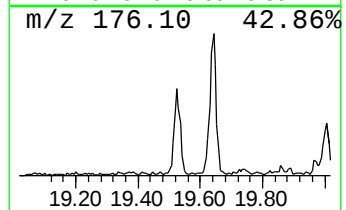
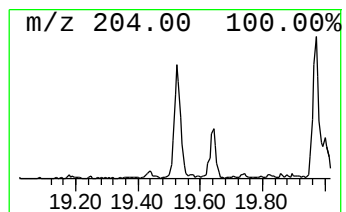
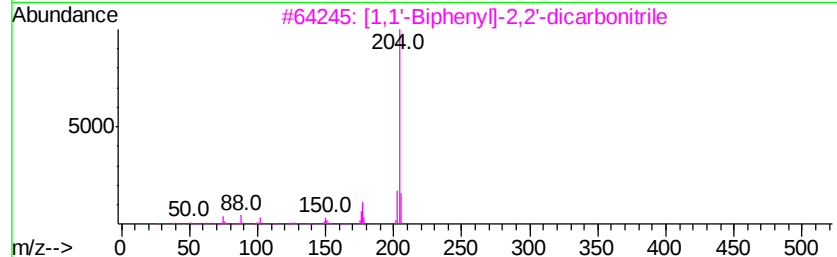
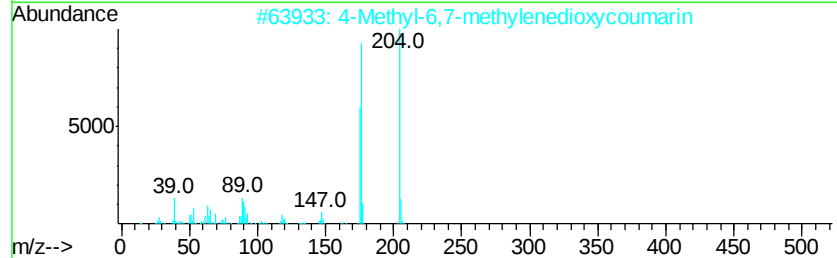
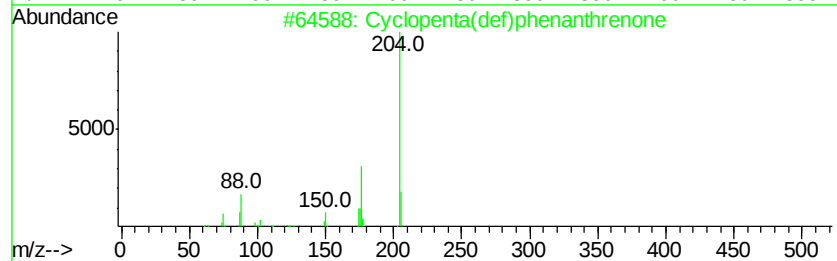
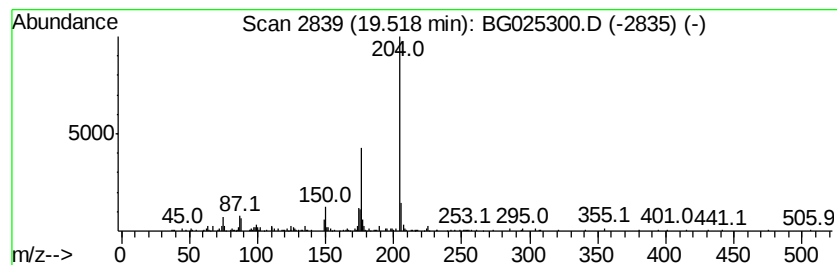
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Quant Title : SVOA CALIBRATION

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

Peak Number 4 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.52	2.69 ng/ul	223022	Phenanthrene-d10	17.60

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2		4-Methyl-6,7-methylenedioxy coumarin	204	C11H8O4	015071-04-2	59
3		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49
4		6-Cyanophenanthridine	204	C14H8N2	002176-28-5	47
5		9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	47



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\
Data File : BG025300.D
Acq On : 18 Dec 2016 7:58
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Sample : H5860-13DL 2X
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ClientSampleId :
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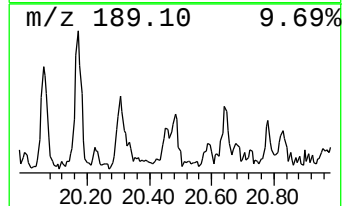
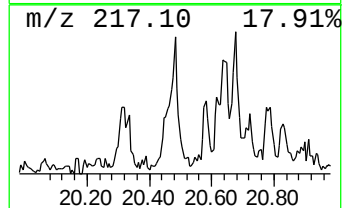
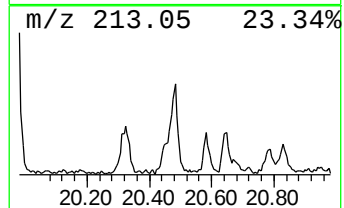
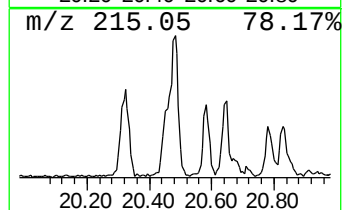
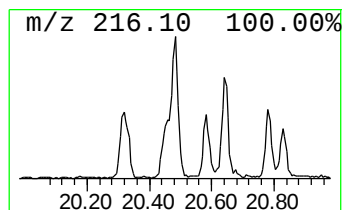
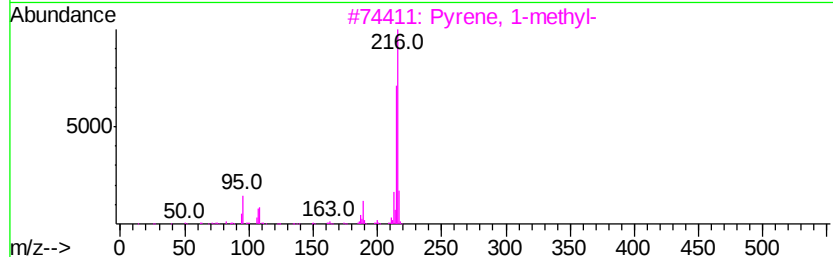
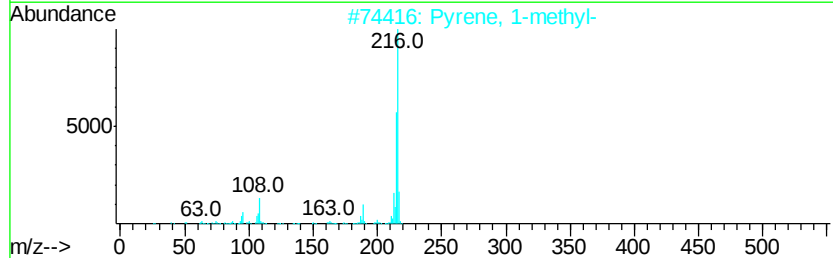
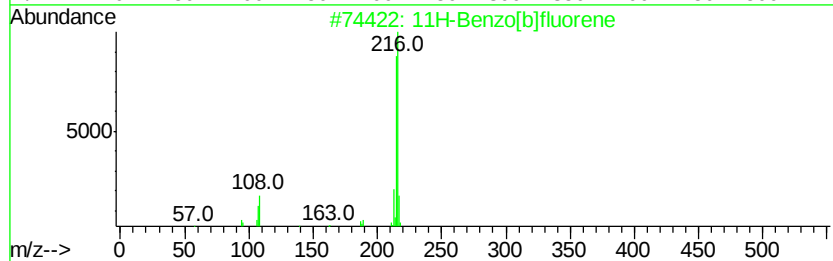
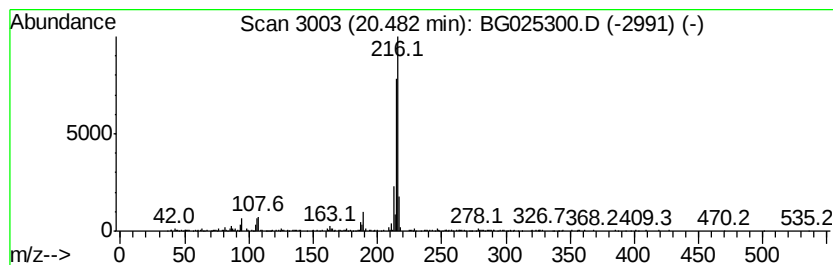
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Quant Title : SVOA CALIBRATION

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

Peak Number 5 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.48	2.68 ng/ul	541454	Chrysene-d12	21.90

Hit# of	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\
Data File : BG025300.D
Acq On : 18 Dec 2016 7:58
Operator : UM/SJ
Sample : H5860-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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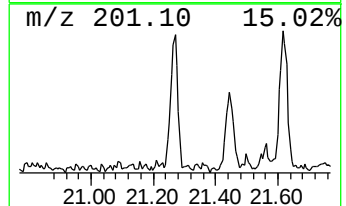
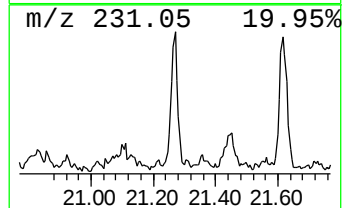
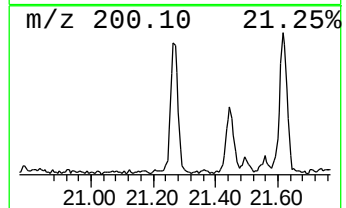
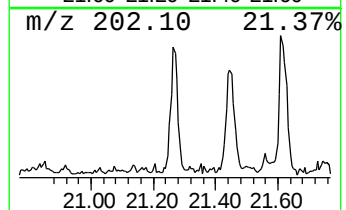
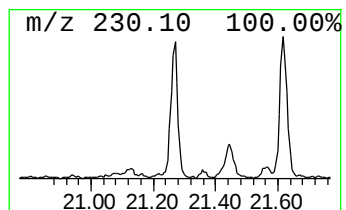
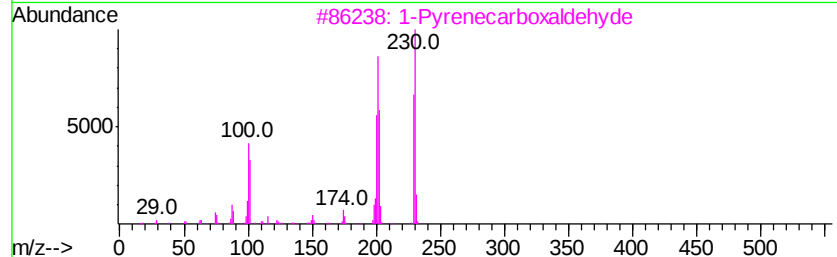
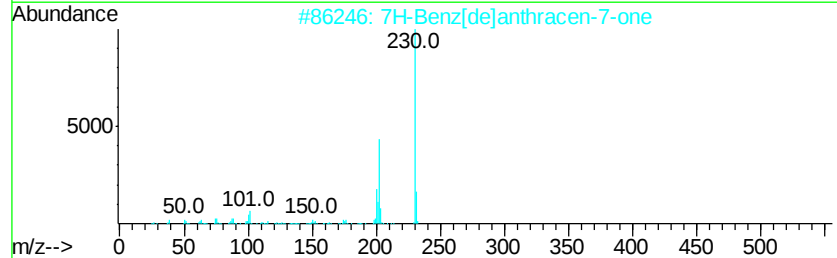
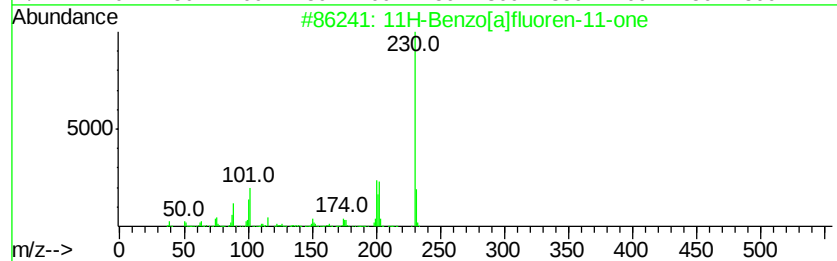
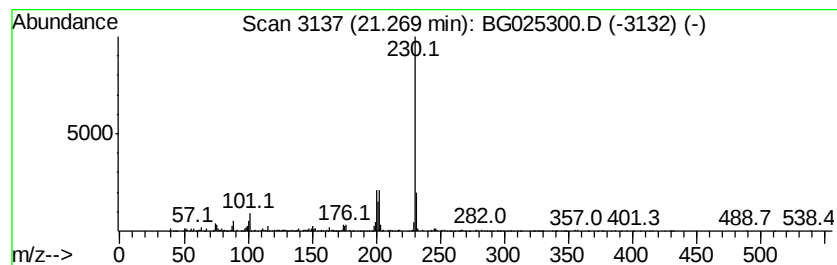
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Quant Title : SVOA CALIBRATION

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

Peak Number 6 11H-Benzo[a]fluoren-11-one Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.27	2.77 ng/ul	559591	Chrysene-d12	21.90

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3		1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	80
4		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74
5		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	72



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\
Data File : BG025300.D
Acq On : 18 Dec 2016 7:58
Operator : UM/SJ
Sample : H5860-13DL 2X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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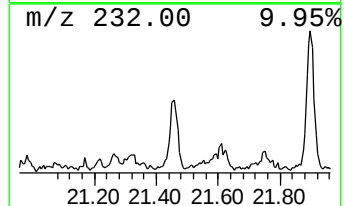
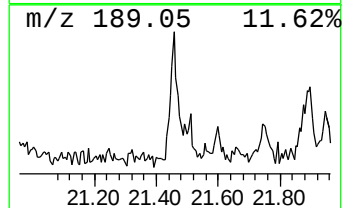
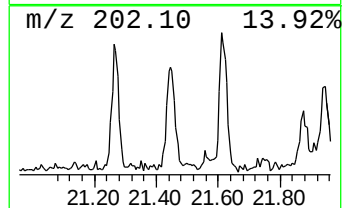
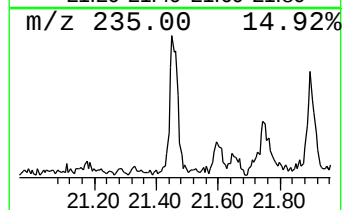
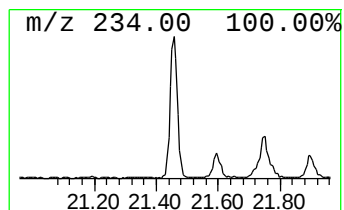
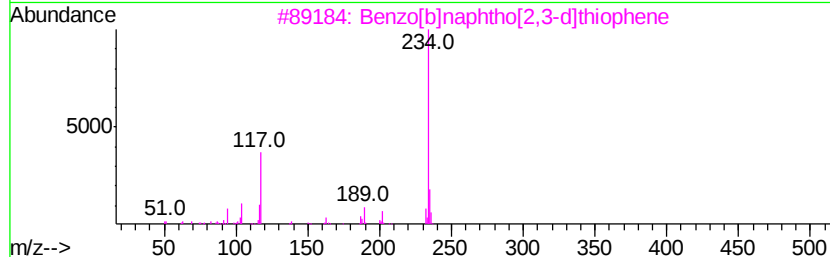
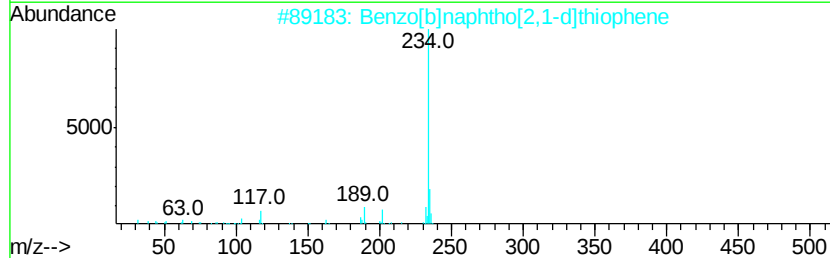
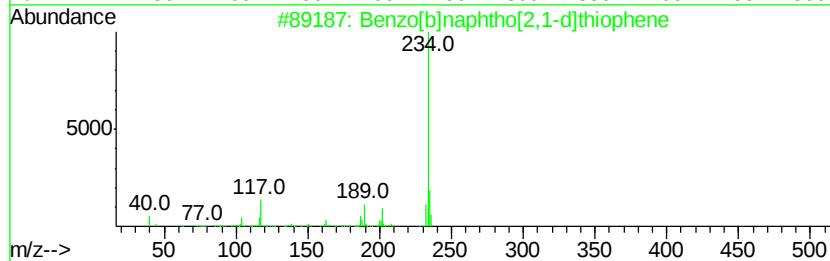
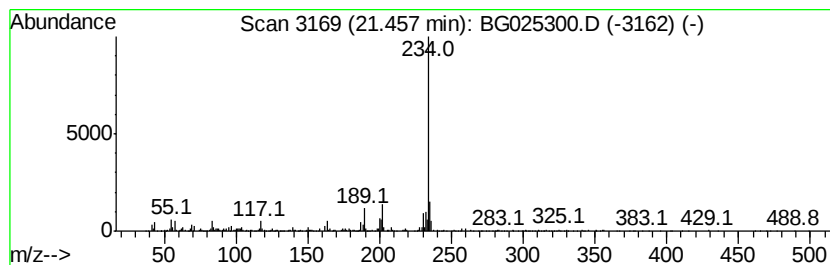
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Quant Title : SVOA CALIBRATION

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

Peak Number 7 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.46	3.51 ng/ul	708733	Chrysene-d12	21.90

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
2		Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
3		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87
4		Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
5		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	87



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\
Data File : BG025300.D
Acq On : 18 Dec 2016 7:58
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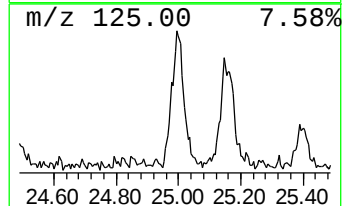
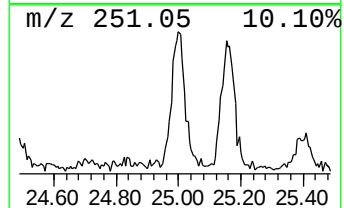
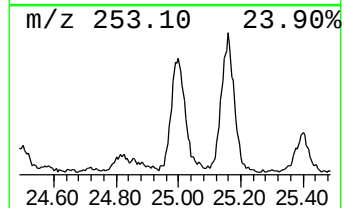
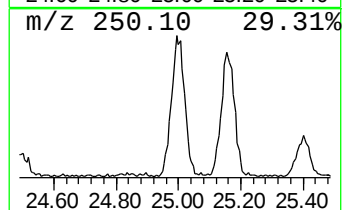
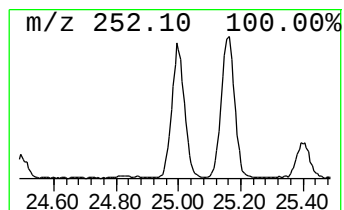
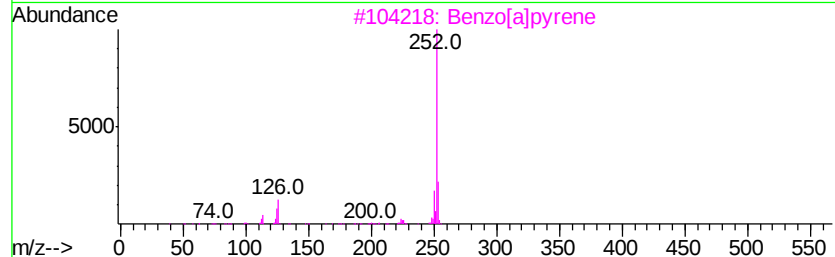
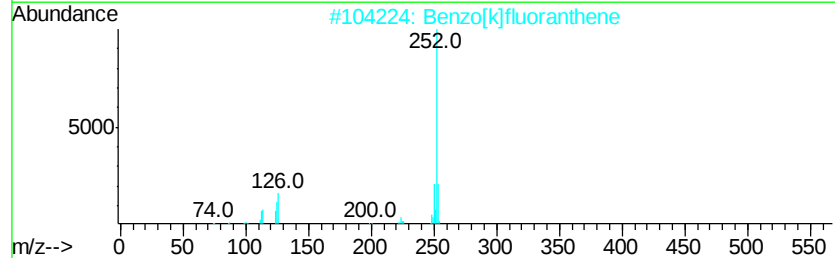
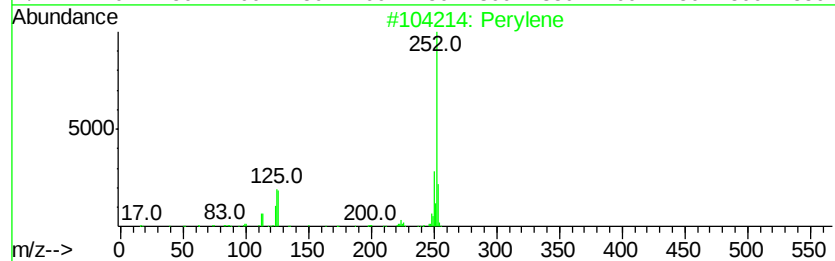
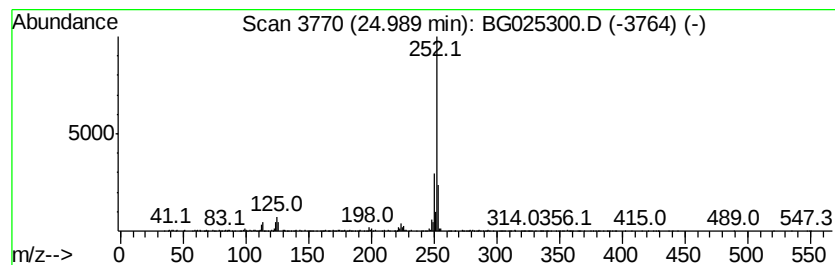
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Quant Title : SVOA CALIBRATION

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

Peak Number 9 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.99	13.03 ng/ul	1167040	Perylene-d12	25.32

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	94
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
3		Benzo[a]pyrene	252	C20H12	000050-32-8	81
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	81
5		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121716\
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Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : SVOA CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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4H-Cyclopenta[def...	18.67	3.4	ng/ul	282547	4	17.60	1657390	20.0
9,10-Anthracenedione	19.01	7.0	ng/ul	579946	4	17.60	1657390	20.0
Cyclopenta(def)ph...	19.52	2.7	ng/ul	223022	4	17.60	1657390	20.0
11H-Benzo[b]fluorene	20.48	2.7	ng/ul	541454	5	21.90	4040740	20.0
11H-Benzo[a]fluor...	21.27	2.8	ng/ul	559591	5	21.90	4040740	20.0
Benzo[b]naphtho[2...	21.46	3.5	ng/ul	708733	5	21.90	4040740	20.0
Perylene	24.99	13.0	ng/ul	1167040	6	25.32	1791990	20.0