LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

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-BG051816.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	7.318	755	762	773	rBV	5287	12274	0.94%	0.092%
2	7.488	784	791	803	rBV5	4358	12053	0.92%	0.090%
3	7.688	820	825	834	rBV3	7464	17036	1.31%	0.128%
4	8.158	899	905	916	rBV	57654	121805	9.34%	0.912%
5	8.869	1021	1026	1035	rBV3	3841	9616	0.74%	0.072%
6	9.339	1100	1106	1112	rBV	4264	9790	0.75%	0.073%
7	10.056	1221	1228	1234	rBV5	3697	8084	0.62%	0.061%
8	10.602	1316	1321	1325	rBV2	7981	14204	1.09%	0.106%
9	10.978	1374	1385	1390	rBV	122540	250728	19.23%	1.878%
10	11.031	1390	1394	1406	rVV	49667	104790	8.04%	0.785%
11	12.629	1660	1666	1672	rBV2	8350	18051	1.38%	0.135%
12	12.841	1696	1702	1711	rBV3	6417	14281	1.10%	0.107%
13	14.180	1922	1930	1934	rVV	34325	57408	4.40%	0.430%
14	14.227	1934	1938	1946	rVB	14637	27225	2.09%	0.204%
15	14.480	1974	1981	1989	rBV	40623	73635	5.65%	0.551%
16	14.785	2021	2033	2039	rBV2	220523	406130	31.14%	3.042%
17	14.844	2039	2043	2052	rVV	85441	144779	11.10%	1.084%
18	15.179	2093	2100	2108	rVV	20225	39369	3.02%	0.295%
19	15.773	2194	2201	2205	rBV2	49681	86323	6.62%	0.646%
20	15.825	2205	2210	2218	rVV2	47845	86464	6.63%	0.648%
21	15.990	2234	2238	2244	rVB5	6895	9475	0.73%	0.071%
22	16.113	2257	2259	2267	rVB3	6343	10439	0.80%	0.078%
23	16.266	2280	2285	2294	rBV3	6403	15430	1.18%	0.116%
24	16.489	2313	2323	2332	rBV6	10503	30350	2.33%	0.227%
25	17.183	2435	2441	2448	rBV2	14976	32202	2.47%	0.241%
26	17.259	2448	2454	2456	rBV3	7689	14172	1.09%	0.106%
27	17.347	2464	2469	2477	rVB2	20409	36468	2.80%	0.273%
28	17.523	2492	2499	2502	rBV	262291	428377	32.85%	3.208%
29	17.570	2502	2507	2512	rVV	495069	871793	66.86%	6.529%
30	17.623	2512	2516	2518	rVV2	62294	99835	7.66%	0.748%
31	17.659	2518	2522	2528	rVV	92178	169848	13.03%	1.272%
32	17.723	2529	2533	2543	rVB3	12914	27542	2.11%	0.206%
33	17.929	2559	2568	2575	rBV2	54125	122222	9.37%	0.915%
34	18.040	2584	2587	2594	rVB7	5142	10191	0.78%	0.076%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

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-BG051816.M
Title : SVOA CALIBRATION

35	18.105	2594	2598	2608	rVB7	5131	11208	0.86%	0.084%
36	18.399	2641	2648	2652	rBV	34131	60608	4.65%	0.454%
37	18.446	2652	2656	2664	rVB	47579	80902	6.20%	0.606%
38	18.528	2664	2670	2675	rBV4	13007	22567	1.73%	0.169%
39	18.593	2675	2681	2685	rBV2	67552	128523	9.86%	0.963%
40	18.687	2693	2697	2702	rBV5	6257	11664	0.89%	0.087%
41	18.892	2727	2732	2735	rBV	24743	39021	2.99%	0.292%
42	18.933	2735	2739	2747	rVB3	22838	42602	3.27%	0.319%
43	19.016	2747	2753	2758	rVB4	5112	8620	0.66%	0.065%
44	19.133	2769	2773	2778	rBV5	7329	11153	0.86%	0.084%
45	19.221	2784	2788	2793	rVB4	6415	10115	0.78%	0.076%
46	19.304	2795	2802	2806	rBV2	23737	41253	3.16%	0.309%
47	19.368	2809	2813	2816	rBV5	6414	11490	0.88%	0.086%
48	19.445	2821	2826	2833	rVB3	17745	34452	2.64%	0.258%
49	19.568	2840	2847	2854	rBV	781242	1181911	90.64%	8.851%
50	19.662	2860	2863	2867	rVB2	15319	20537	1.57%	0.154%
51	19.756	2874	2879	2882	rBV7	6680	12136	0.93%	0.091%
52	19.815	2882	2889	2896	rVB3	23500	49492	3.80%	0.371%
53	19.926	2904	2908	2916	rVB	580829	989575	75.89%	7.411%
54	19.991	2916	2919	2926	rVB3	23619	41540	3.19%	0.311%
55	20.103	2933	2938	2944	rVB2	17957	28860	2.21%	0.216%
56	20.167	2944	2949	2956	rVB	34369	57028	4.37%	0.427%
57	20.250	2956	2963	2969	rBV3	34701	82639	6.34%	0.619%
58	20.302	2969	2972	2978	rVB2	17465	24841	1.90%	0.186%
59	20.379	2979	2985	2986	rBV4	25270	35375	2.71%	0.265%
60	20.414	2987	2991	2997	rVB	79509	129798	9.95%	0.972%
61	20.514	3002	3008	3012	rBV	58879	100017	7.67%	0.749%
62	20.573	3012	3018	3021	rVV4	37418	74009	5.68%	0.554%
63	20.608	3021	3024	3028	rVB2	26844	36706	2.81%	0.275%
64	20.714	3037	3042	3045	rBV	29360	42638	3.27%	0.319%
65	20.755	3046	3049	3054	rVB	21308	33244	2.55%	0.249%
66	20.872	3066	3069	3073	rBV4	6939	9611	0.74%	0.072%
67	21.008	3089	3092	3096	rVV5	9577	15630	1.20%	0.117%
68	21.143	3110	3115	3118	rBV6	12858	21805	1.67%	0.163%
69	21.184	3118	3122	3130	rVB	32081	63197	4.85%	0.473%
70	21.378	3146	3155	3158	rBV4	61166	132151	10.13%	0.990%
71	21.419	3158	3162	3166	rVV	60060	108299	8.31%	0.811%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

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-BG051816.M
Title : SVOA CALIBRATION

72	21.472	3166	3171	3176	rVV4	58776	133100	10.21%	0.997%
73	21.525	3177	3180	3194	rVB2	41597	89526	6.87%	0.670%
74	21.666	3194	3204	3210	rBV2	22669	66893	5.13%	0.501%
75	21.795	3214	3226	3233	rVV3	434134	1304002	100.00%	9.766%
76	21.854	3233	3236	3248	rVB	264145	480514	36.85%	3.599%
77	22.012	3257	3263	3270	rVB	59403	112742	8.65%	0.844%
78	22.089	3272	3276	3282	rVV9	17087	36417	2.79%	0.273%
79	22.159	3284	3288	3294	rVV	22632	48682	3.73%	0.365%
80	22.224	3294	3299	3307	rVB3	43150	99936	7.66%	0.748%
81	22.559	3352	3356	3360	rVB3	24647	44456	3.41%	0.333%
82	22.776	3389	3393	3399	rVV5	12166	24398	1.87%	0.183%
83	22.841	3399	3404	3408	rVV5	20935	48062	3.69%	0.360%
84	22.888	3409	3412	3421	rVB6	28671	58378	4.48%	0.437%
85	22.988	3421	3429	3440	rVB6	21217	63723	4.89%	0.477%
86	23.258	3467	3475	3477	rBV8	13836	32144	2.47%	0.241%
87	23.440	3501	3506	3512	rBV10	5704	15710	1.20%	0.118%
88	23.693	3544	3549	3556	rVB2	19580	46859	3.59%	0.351%
89	23.840	3568	3574	3575	rBV5	7846	12796	0.98%	0.096%
90	23.945	3587	3592	3598	rVB3	12606	26248	2.01%	0.197%
91	24.075	3604	3614	3622	rBV2	219882	824546	63.23%	6.175%
92	24.333	3650	3658	3671	rVB4	37653	111736	8.57%	0.837%
93	24.827	3731	3742	3751	rBV2	119050	403834	30.97%	3.024%
94	24.973	3759	3767	3781	rVB2	176583	560515	42.98%	4.198%
95	25.132	3783	3794	3802	rVV2	148104	496991	38.11%	3.722%
96	25.209	3803	3807	3822	rVB2	57214	177439	13.61%	1.329%
97	26.554	4031	4036	4041	rBV8	9028	20287	1.56%	0.152%
98	28.939	4429	4442	4462	rVB4	85319	440655	33.79%	3.300%
99	29.580	4544	4551	4555	rBV10	9869	24385	1.87%	0.183%
100	30.132	4627	4645	4659	rBV3	65767	350295	26.86%	2.623%

Sum of corrected areas: 13352875

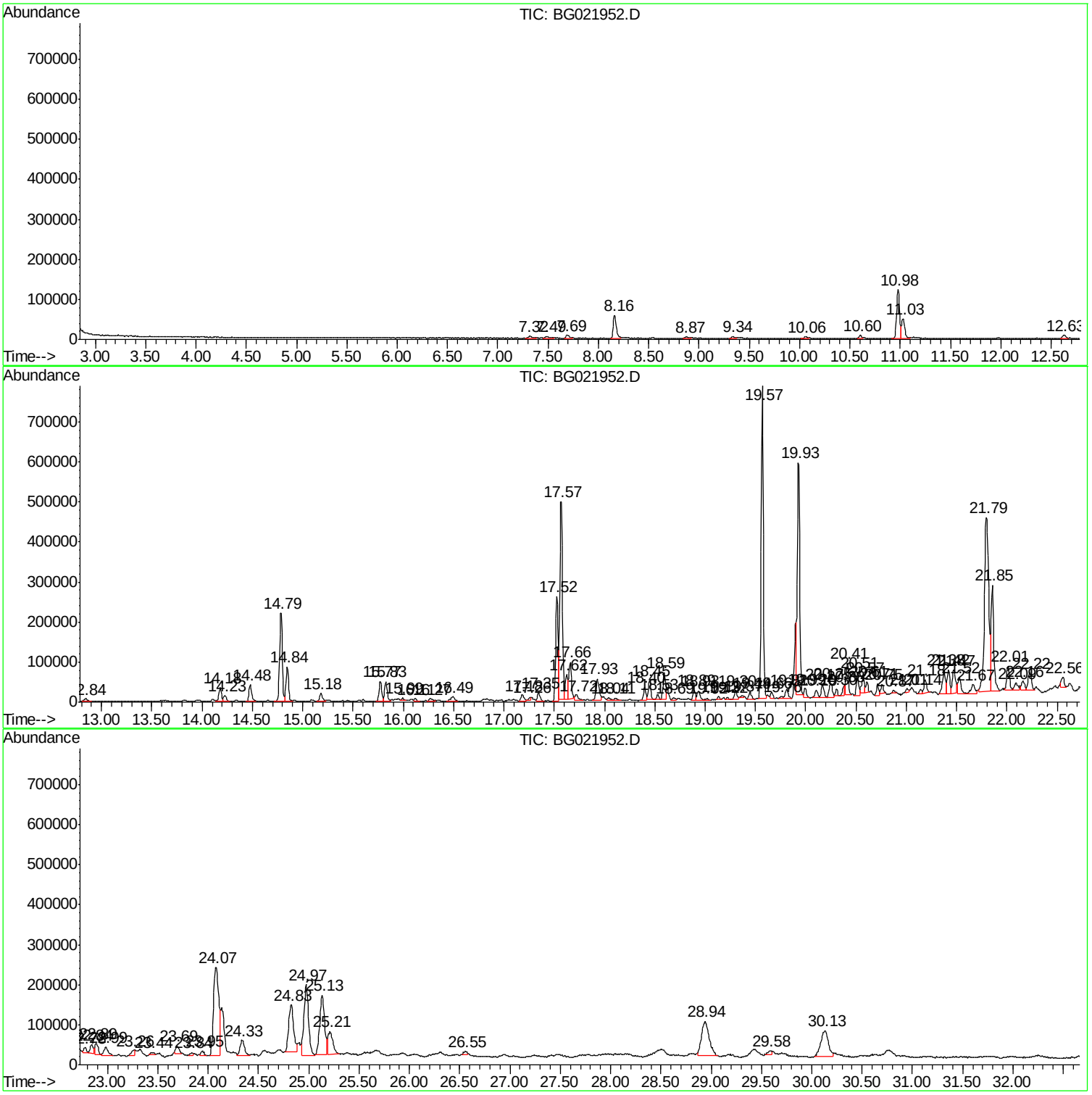
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

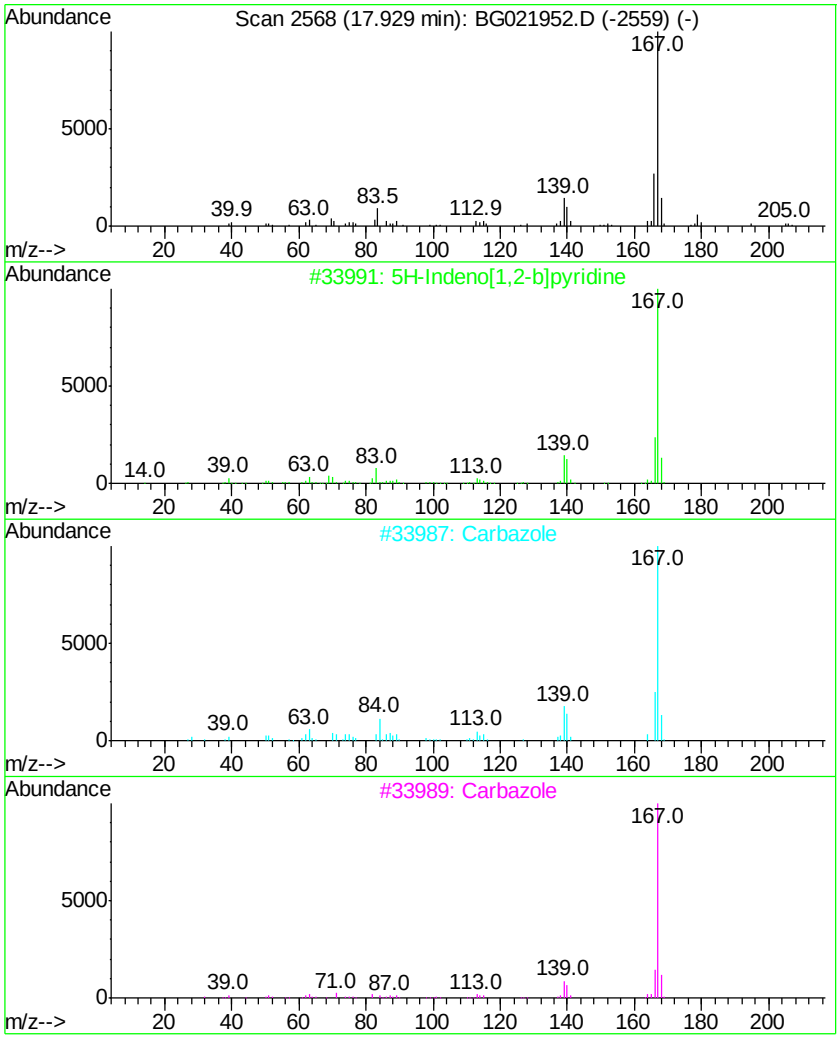
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

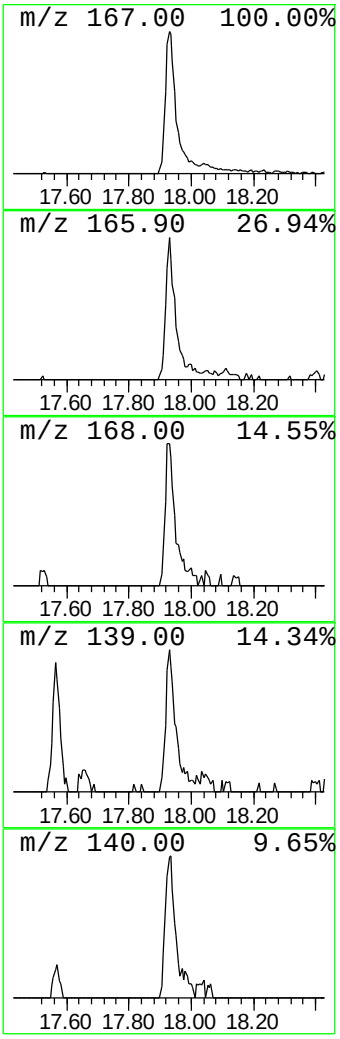
****

Peak Number 1 5H-Indeno[1,2-b]pyridine Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.93	5.71 ng/ul	122222	Phenanthrene-d10	17.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	90
2	Carbazole	167	C12H9N	000086-74-8	83
3	Carbazole	167	C12H9N	000086-74-8	81
4	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	80
5	Carbazole	167	C12H9N	000086-74-8	80





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

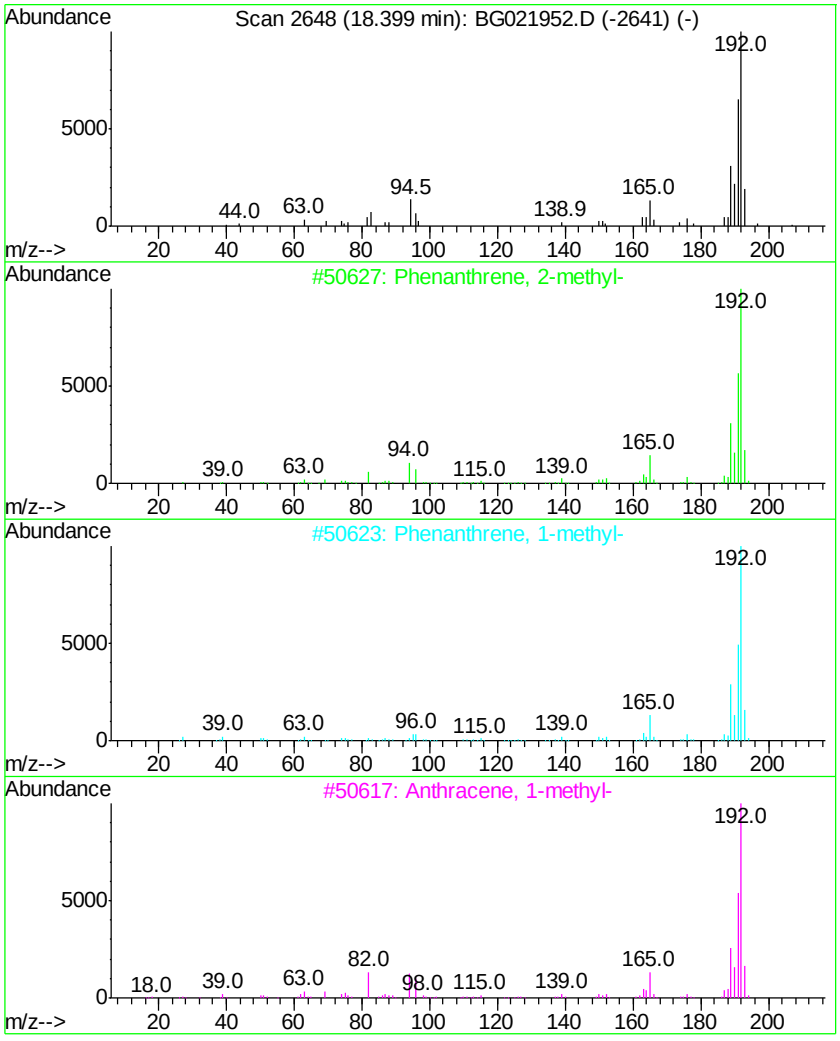
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

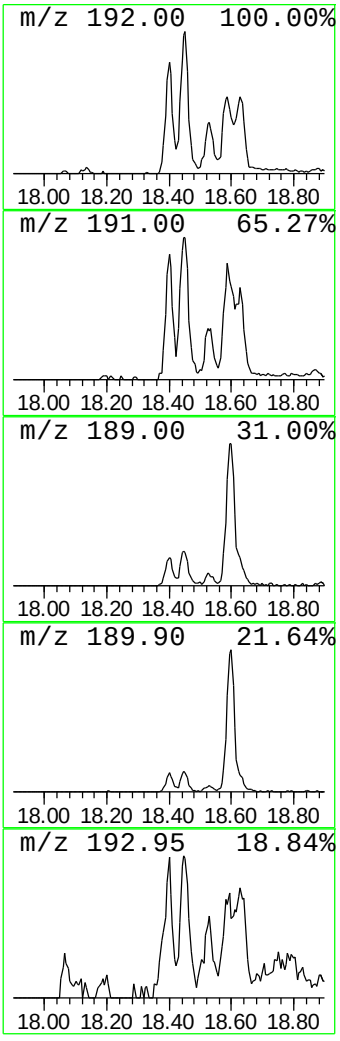
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	2.83 ng/ul	60608	Phenanthrene-d10	17.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

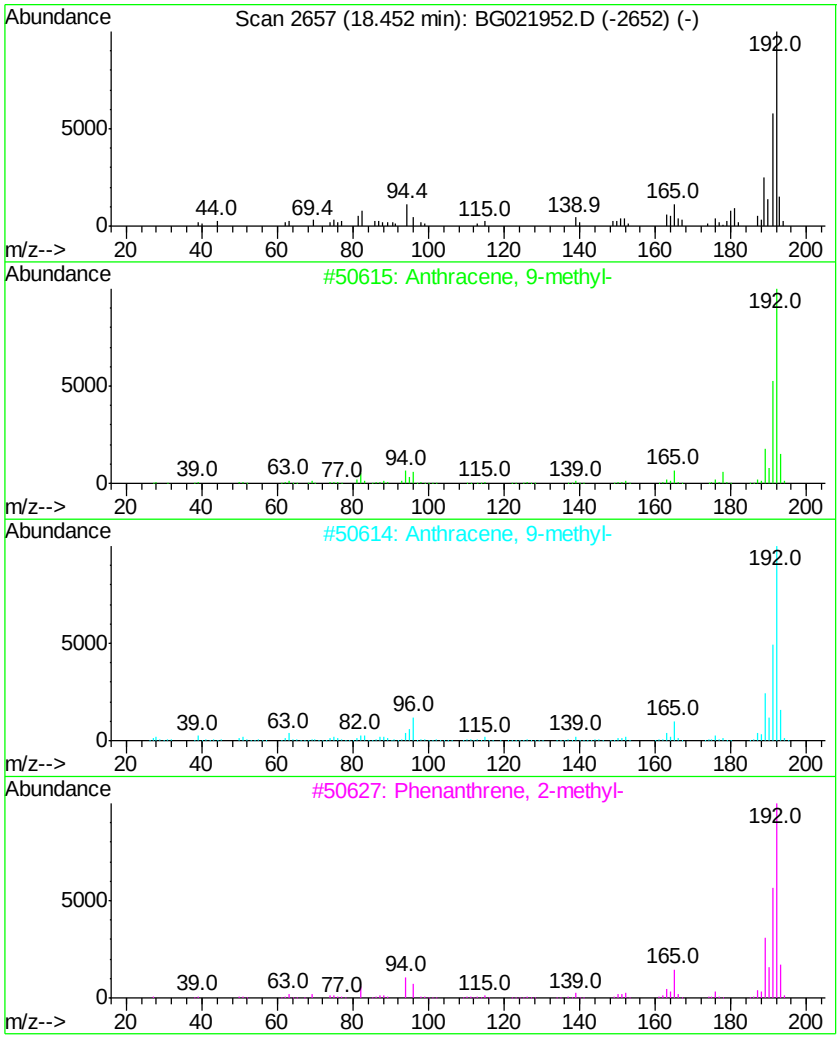
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

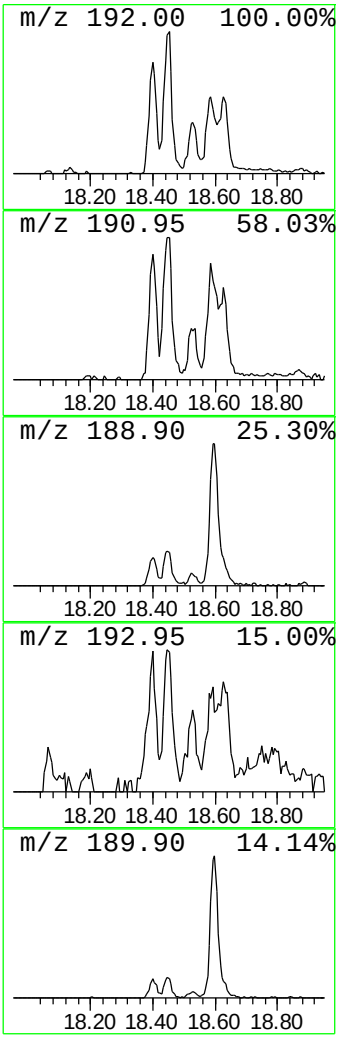
****

Peak Number 3 Anthracene, 9-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	3.78 ng/ul	80902	Phenanthrene-d10	17.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	76
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	76
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	70
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	70
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	70





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

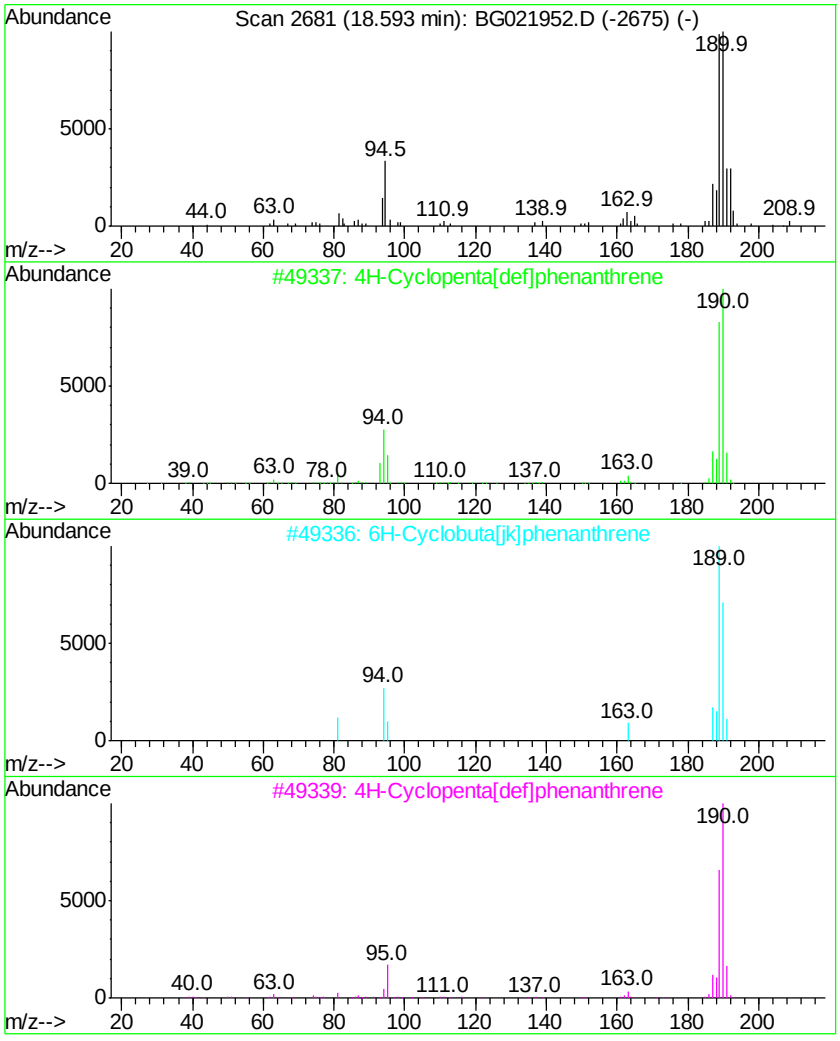
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

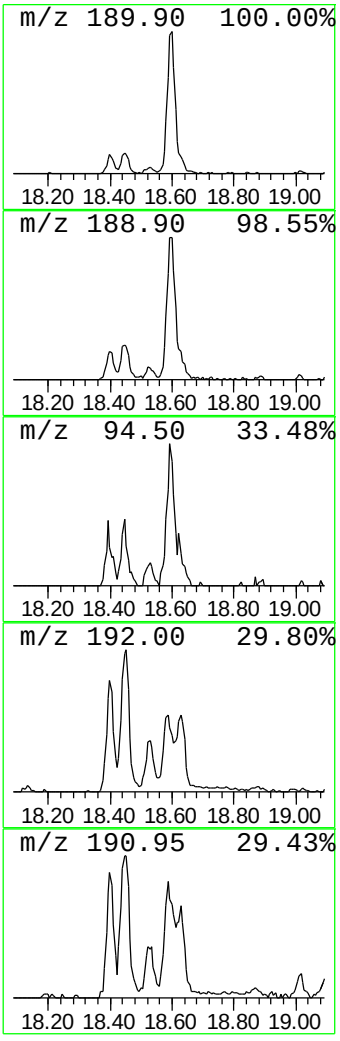
****

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	6.00 ng/ul	128523	Phenanthrene-d10	17.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

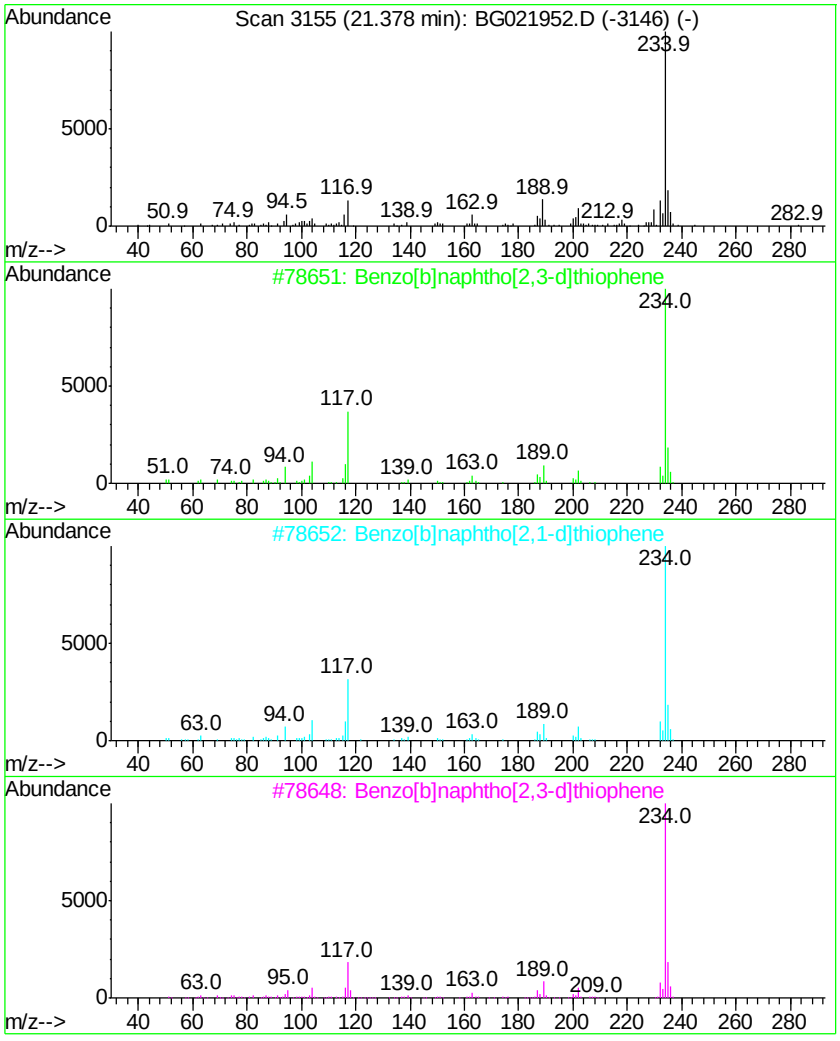
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

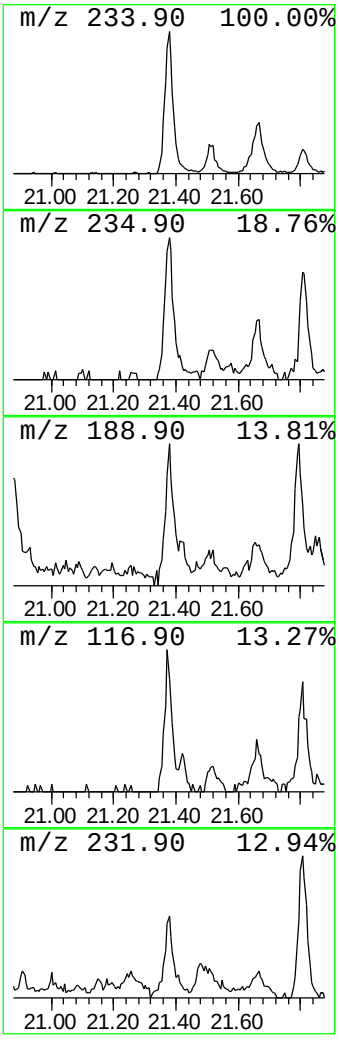
****

Peak Number 5 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.38	2.03 ng/ul	132151	Chrysene-d12	21.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.M
Quant Title : SVOA CALIBRATION

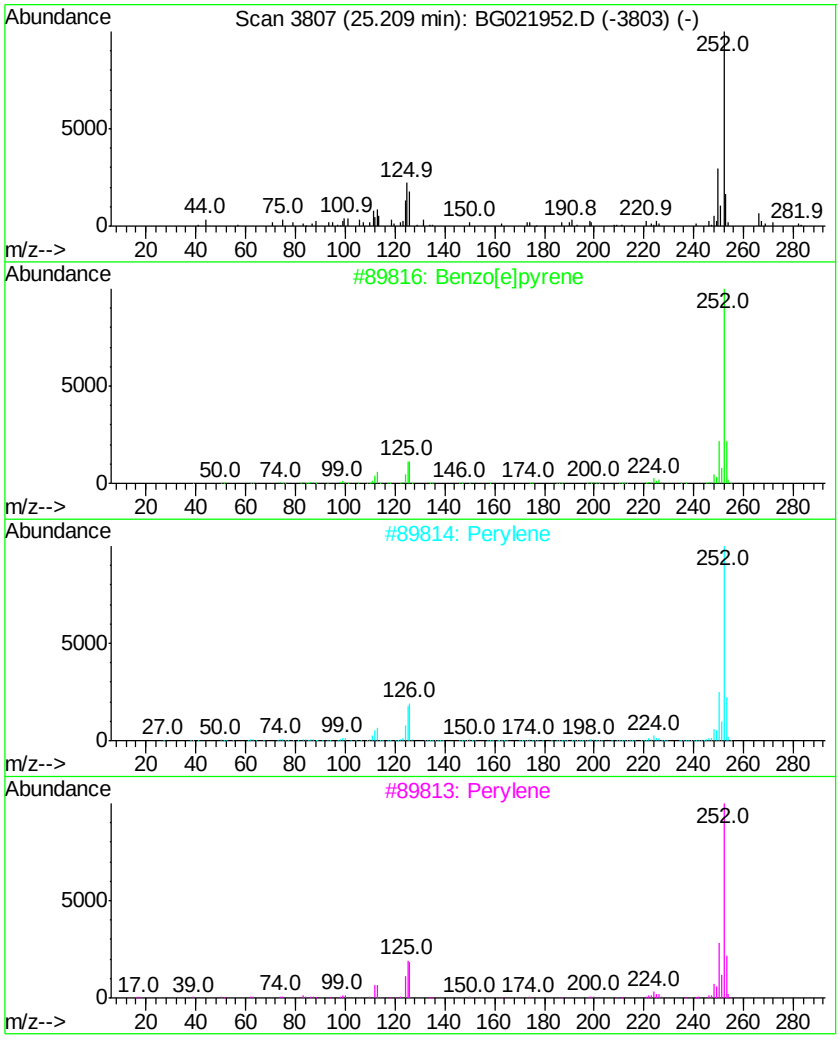
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

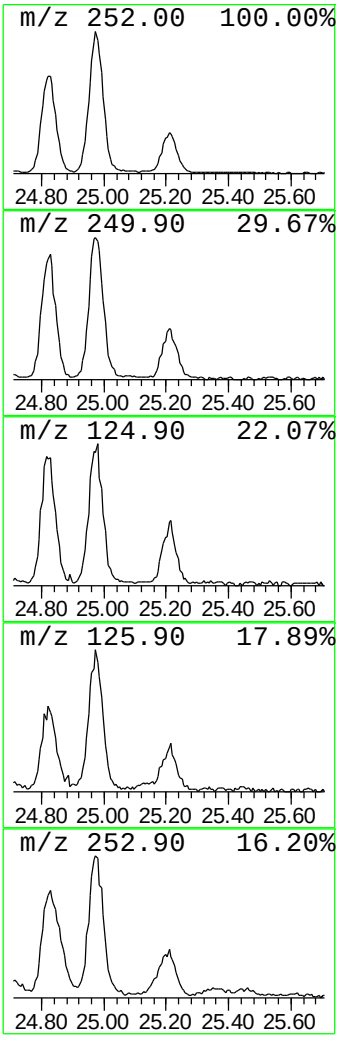
****

Peak Number 9 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.21	7.14 ng/ul	177439	Perylene-d12	25.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	87
2	Perylene	252	C20H12	000198-55-0	81
3	Perylene	252	C20H12	000198-55-0	81
4	Benzo[a]pyrene	252	C20H12	000050-32-8	68
5	Benzo[e]pyrene	252	C20H12	000192-97-2	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051816\
Data File : BG021952.D
Acq On : 19 May 2016 3:58
Operator : UM/SJ
Sample : H3096-04DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF9DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG051816.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
5H-Indeno[1,2-b]p...	17.93	5.7	ng/ul	122222	4	17.52	428377	20.0
Phenanthrene, 2-m...	18.40	2.8	ng/ul	60608	4	17.52	428377	20.0
Anthracene, 9-met...	18.45	3.8	ng/ul	80902	4	17.52	428377	20.0
4H-Cyclopenta[def...	18.59	6.0	ng/ul	128523	4	17.52	428377	20.0
Benzo[b]naphtho[2...	21.38	2.0	ng/ul	132151	5	21.81	1304000	20.0
Benzo[e]pyrene	25.21	7.1	ng/ul	177439	6	25.13	496991	20.0