LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

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_M\METHODS\SOM02.2-EPA-BM103015.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	3.751	108	113	120	rBV	65300	83507	2.56%	0.172%
2	6.922	646	652	661	rBV	315604	510932	15.66%	1.053%
3	7.098	675	682	693	rBV	357074	545887	16.73%	1.125%
4	7.292	709	715	724	rVB	372918	595620	18.25%	1.228%
5	7.769	788	796	802	rBV	563264	914738	28.03%	1.886%
6	8.463	908	914	922	rBV	296206	459318	14.07%	0.947%
7	8.922	985	992	999	rVV	383618	610273	18.70%	1.258%
8	9.639	1107	1114	1121	rVB	300687	474096	14.53%	0.977%
9	10.175	1197	1205	1212	rBV	480385	780132	23.90%	1.608%
10	10.557	1262	1270	1276	rBV	855152	1420237	43.52%	2.928%
11	10.692	1286	1293	1302	rBV	313016	541510	16.59%	1.116%
12	13.727	1803	1809	1814	rBV	33210	53845	1.65%	0.111%
13	13.815	1819	1824	1828	rVV	1038789	1442451	44.20%	2.974%
14	13.863	1828	1832	1841	rVV	530989	716460	21.95%	1.477%
15	14.098	1866	1872	1886	rVB	1032767	1598077	48.97%	3.294%
16	14.410	1916	1925	1931	rBV2	1213308	1881908	57.66%	3.879%
17	14.474	1931	1936	1943	rVB	91746	146669	4.49%	0.302%
18	14.592	1950	1956	1964	rBV	188692	270901	8.30%	0.558%
19	14.810	1988	1993	2000	rVB	75048	133844	4.10%	0.276%
20	15.262	2067	2070	2076	rVB	63870	78958	2.42%	0.163%
21	15.404	2086	2094	2099	rBV	1447658	2113813	64.77%	4.358%
22	15.457	2099	2103	2107	rVV2	87293	121945	3.74%	0.251%
23	15.515	2107	2113	2118	rVV	176267	249828	7.66%	0.515%
24	15.751	2149	2153	2161	rVB	51956	83493	2.56%	0.172%
25	15.892	2172	2177	2186	rVB	49745	99258	3.04%	0.205%
26	16.127	2213	2217	2225	rBV2	88916	147574	4.52%	0.304%
27	16.433	2262	2269	2271	rBV4	22813	43007	1.32%	0.089%
28	16.462	2271	2274	2279	rVV4	37971	63305	1.94%	0.131%
29	16.692	2304	2313	2316	rVV3	44899	84860	2.60%	0.175%
30	16.727	2316	2319	2323	rVV2	42633	62663	1.92%	0.129%
31	16.809	2328	2333	2340	rVV3	51832	83723	2.57%	0.173%
32	16.886	2340	2346	2347	rVV	44612	62701	1.92%	0.129%
33	16.909	2347	2350	2356	rVV4	82102	148081	4.54%	0.305%
34	16.968	2356	2360	2371	rVB	85511	139261	4.27%	0.287%

LSC Area Percent Report

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Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

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_M\METHODS\SOM02.2-EPA-BM103015.M
Title : SVOA CALIBRATION

35	17.151	2385	2391	2395	rVV	1358559	2087659	63.97%	4.304%
36	17.198	2395	2399	2403	rVV	1314831	1858538	56.95%	3.831%
37	17.251	2403	2408	2412	rVV2	1432796	2095236	64.20%	4.319%
38	17.286	2412	2414	2419	rVV	245269	274314	8.41%	0.565%
39	17.339	2419	2423	2429	rVB3	41170	62236	1.91%	0.128%
40	17.551	2456	2459	2463	rVV	53549	72667	2.23%	0.150%
41	17.674	2474	2480	2486	rVB3	36338	54783	1.68%	0.113%
42	18.027	2531	2540	2545	rBV2	202036	447060	13.70%	0.922%
43	18.074	2545	2548	2554	rVB	283571	373480	11.44%	0.770%
44	18.156	2558	2562	2567	rVB	91304	128376	3.93%	0.265%
45	18.221	2567	2573	2577	rBV2	216603	427677	13.10%	0.882%
46	18.256	2577	2579	2586	rVB	134870	170590	5.23%	0.352%
47	18.345	2586	2594	2597	rBV8	25205	53358	1.63%	0.110%
48	18.533	2620	2626	2629	rBV	146618	203280	6.23%	0.419%
49	18.568	2629	2632	2638	rVB	64351	88418	2.71%	0.182%
50	18.774	2659	2667	2670	rBV2	63782	116891	3.58%	0.241%
51	18.827	2674	2676	2679	rVB	43320	41258	1.26%	0.085%
52	18.862	2679	2682	2687	rVB2	49311	67434	2.07%	0.139%
53	18.950	2691	2697	2701	rBV	102184	181153	5.55%	0.373%
54	19.015	2702	2708	2710	rVV3	44137	77561	2.38%	0.160%
55	19.039	2710	2712	2716	rVB	53065	58531	1.79%	0.121%
56	19.086	2716	2720	2728	rVB2	92293	160198	4.91%	0.330%
57	19.215	2735	2742	2749	rVB	1739992	2426342	74.35%	5.002%
58	19.280	2749	2753	2755	rBV	31867	39670	1.22%	0.082%
59	19.327	2755	2761	2764	rBV4	78716	128372	3.93%	0.265%
60	19.409	2770	2775	2777	rBV3	26121	44949	1.38%	0.093%
61	19.456	2777	2783	2786	rVV2	71516	122138	3.74%	0.252%
62	19.486	2786	2788	2792	rVB3	45589	49685	1.52%	0.102%
63	19.550	2793	2799	2801	rBV2	1640757	2468619	75.64%	5.089%
64	19.574	2801	2803	2812	rVB	1373602	1801827	55.21%	3.714%
65	19.645	2812	2815	2823	rVB3	104924	175120	5.37%	0.361%
66	19.756	2829	2834	2840	rVB	106881	150885	4.62%	0.311%
67	19.815	2840	2844	2850	rVB	78224	122377	3.75%	0.252%
68	19.892	2852	2857	2860	rBV	306687	459225	14.07%	0.947%
69	19.927	2860	2863	2871	rVB	466508	566273	17.35%	1.167%
70	20.039	2877	2882	2883	rBV3	103572	143760	4.41%	0.296%
71	20.068	2883	2887	2895	rVB	204256	341436	10.46%	0.704%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

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_M\METHODS\SOM02.2-EPA-BM103015.M
Title : SVOA CALIBRATION

72	20.174	2897	2905	2908	rBV3	84009	132128	4.05%	0.272%
73	20.227	2908	2914	2919	rBV2	163159	295293	9.05%	0.609%
74	20.309	2925	2928	2934	rVB2	40768	63250	1.94%	0.130%
75	20.368	2934	2938	2942	rBV	95397	134842	4.13%	0.278%
76	20.415	2942	2946	2951	rVV4	106933	150586	4.61%	0.310%
77	20.533	2959	2966	2970	rVB6	54248	102775	3.15%	0.212%
78	20.627	2978	2982	2983	rBV3	36645	40020	1.23%	0.082%
79	20.821	3011	3015	3020	rBV	124753	178500	5.47%	0.368%
80	20.868	3020	3023	3025	rVV	68967	79250	2.43%	0.163%
81	20.897	3025	3028	3036	rVB2	162864	201943	6.19%	0.416%
82	20.986	3036	3043	3046	rBV3	122296	233968	7.17%	0.482%
83	21.027	3046	3050	3052	rVV	151753	197281	6.05%	0.407%
84	21.062	3052	3056	3061	rVV3	149824	330223	10.12%	0.681%
85	21.115	3061	3065	3073	rVB2	147913	235627	7.22%	0.486%
86	21.339	3096	3103	3107	rVV2	1756584	3263538	100.00%	6.728%
87	21.380	3107	3110	3117	rVB	710955	947249	29.03%	1.953%
88	21.497	3126	3130	3136	rBV2	83112	148013	4.54%	0.305%
89	21.656	3152	3157	3162	rBV2	87885	162826	4.99%	0.336%
90	21.768	3173	3176	3179	rBV2	50892	59931	1.84%	0.124%
91	21.891	3194	3197	3201	rVB	131477	174190	5.34%	0.359%
92	21.944	3203	3206	3211	rVB2	98937	131310	4.02%	0.271%
93	22.091	3228	3231	3234	rBV	58783	75849	2.32%	0.156%
94	22.927	3367	3373	3378	rBV	501264	1178466	36.11%	2.429%
95	23.097	3398	3402	3411	rVB	102641	183735	5.63%	0.379%
96	23.415	3451	3456	3459	rBV	211171	374050	11.46%	0.771%
97	23.462	3459	3464	3469	rVV	811888	1505905	46.14%	3.104%
98	23.509	3469	3472	3479	rVB	394853	657634	20.15%	1.356%
99	23.609	3482	3489	3495	rBV	935791	1818493	55.72%	3.749%
100	25.897	3871	3878	3891	rVB2	184867	548043	16.79%	1.130%

Sum of corrected areas: 48509169

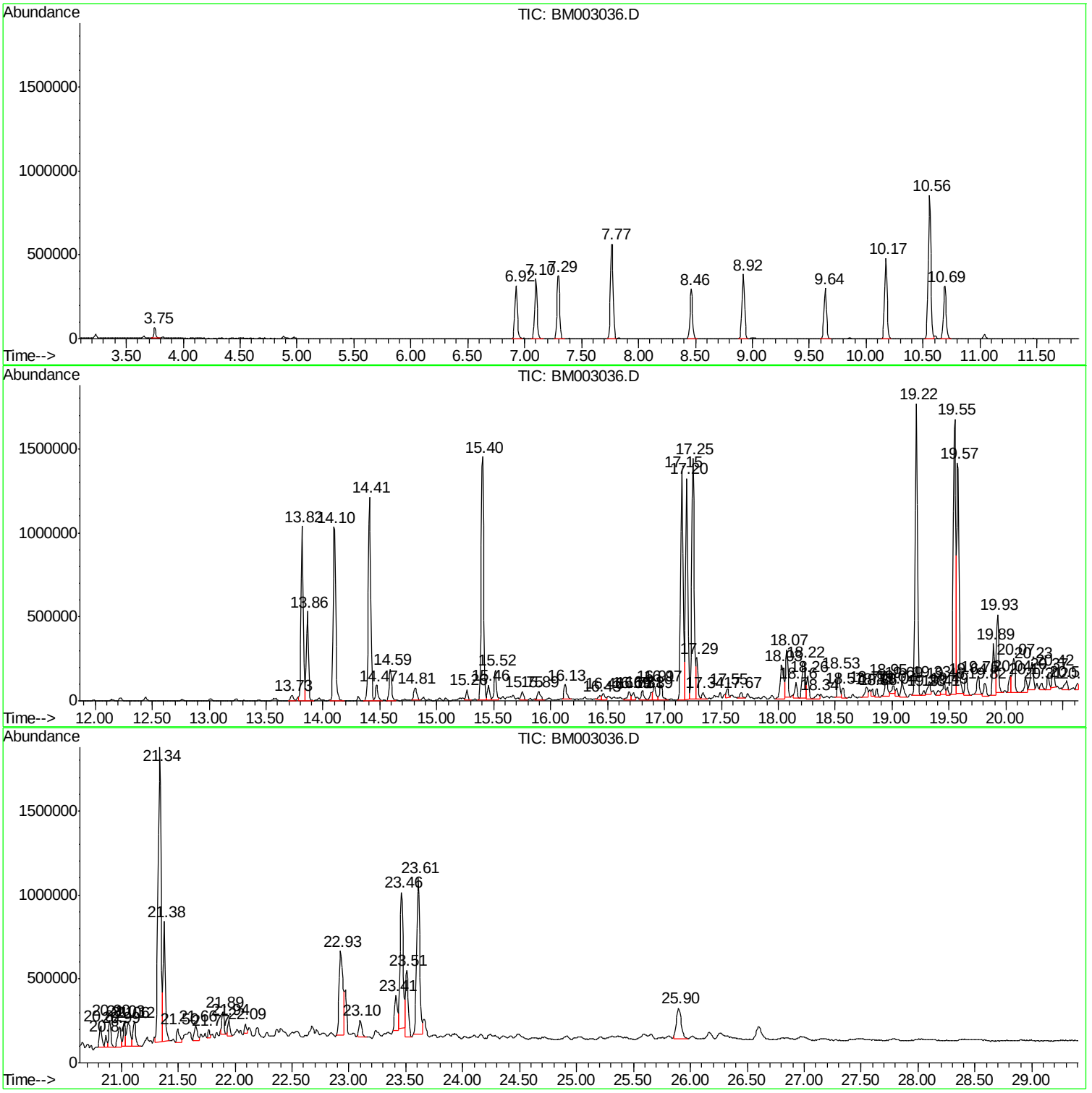
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.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_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
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Instrument : BNA_M
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

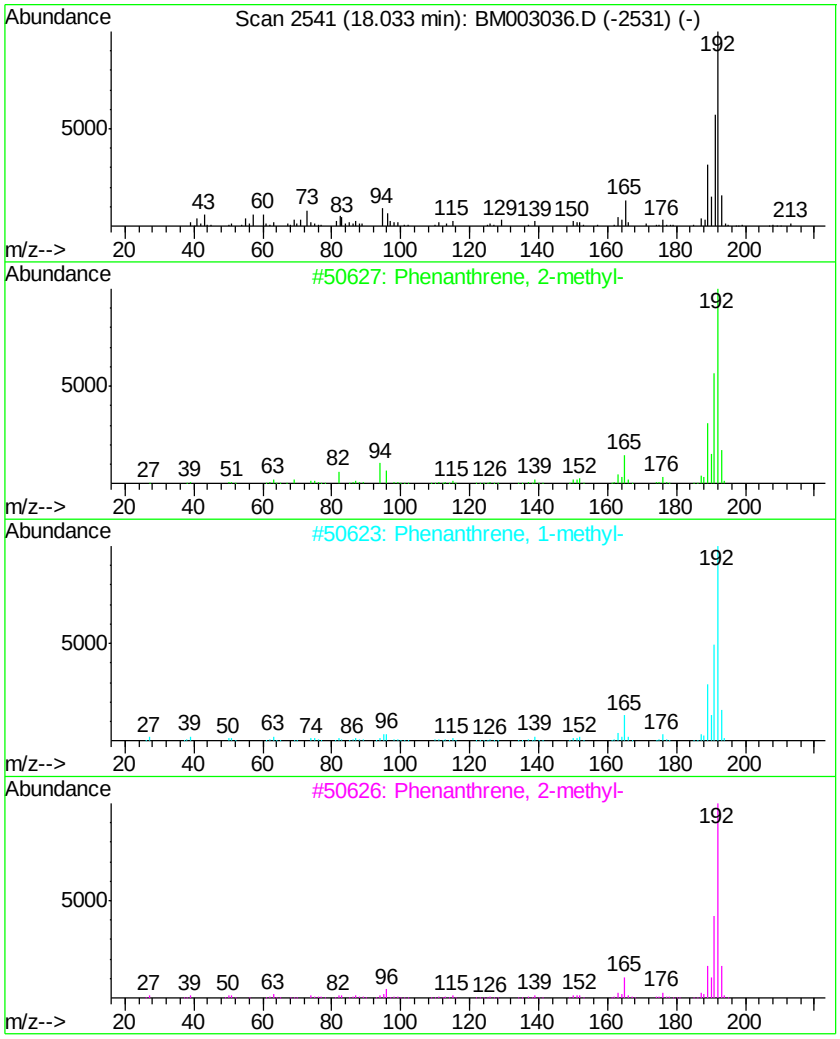
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

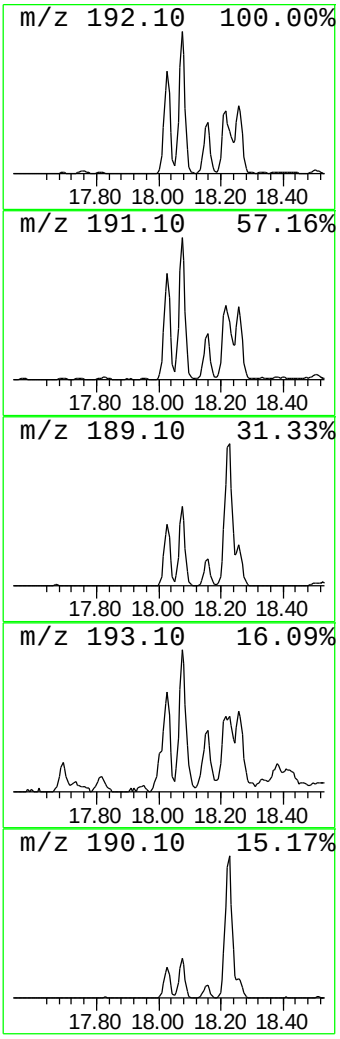
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.03	4.28 ng/ul	447060	Phenanthrene-d10	17.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

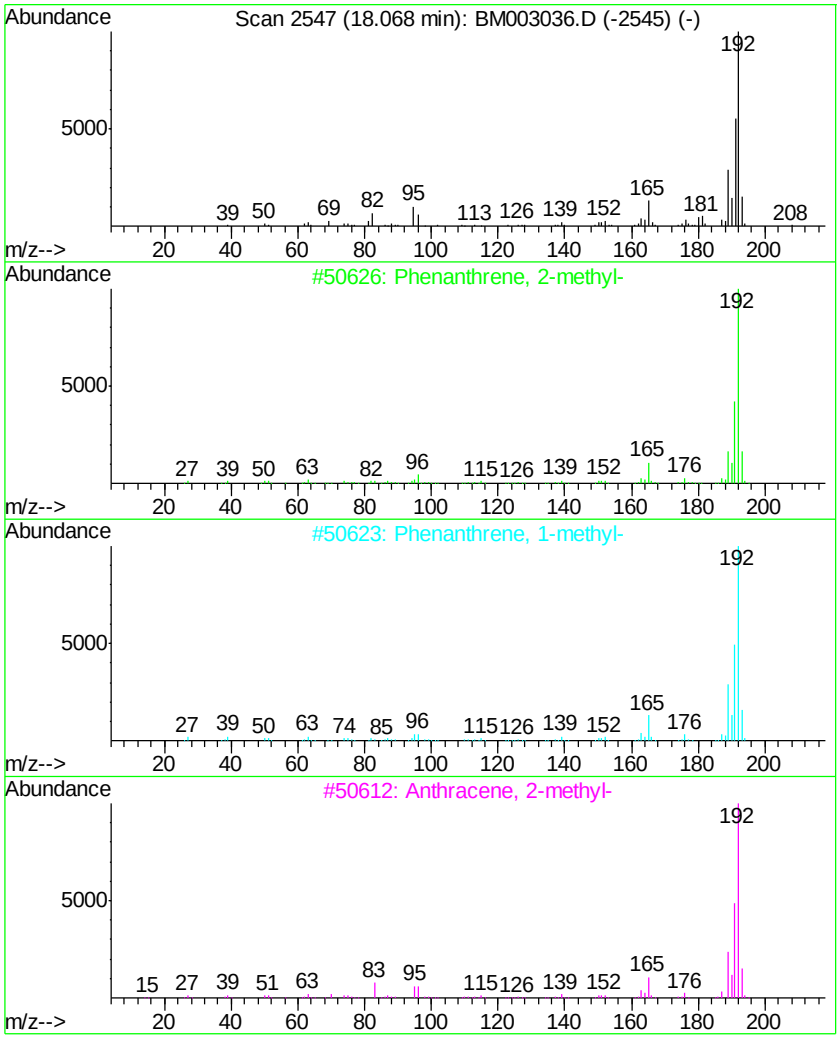
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

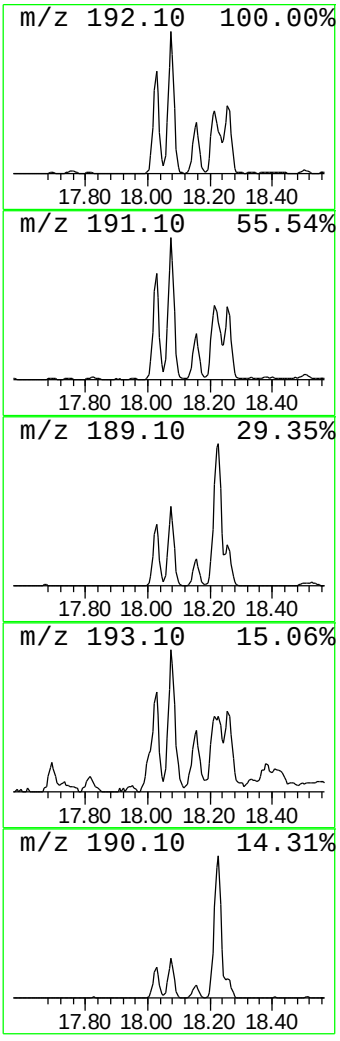
****

Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	3.58 ng/ul	373480	Phenanthrene-d10	17.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

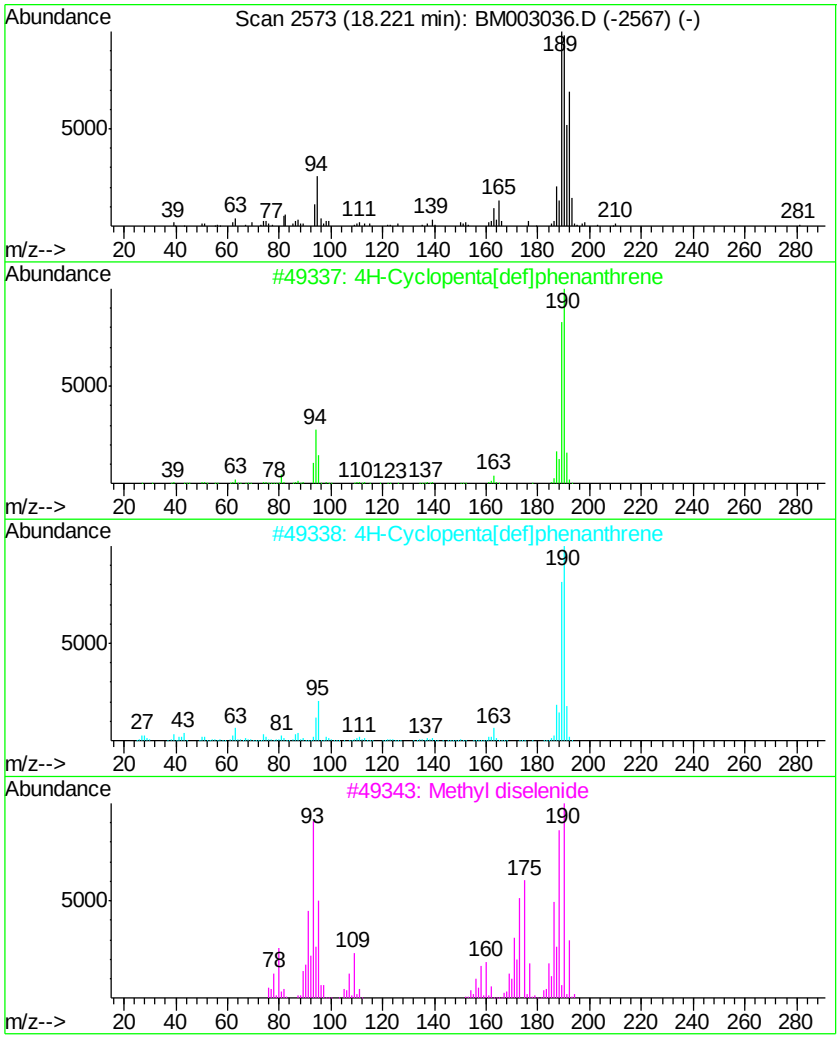
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

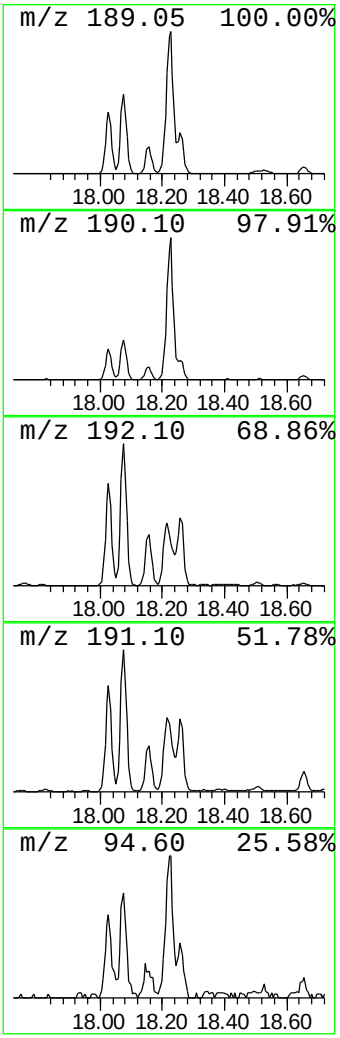
****

Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.22	4.10 ng/ul	427677	Phenanthrene-d10	17.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	Methyl diselenide	190	C2H6Se2	007101-31-7	41
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	38
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	38





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

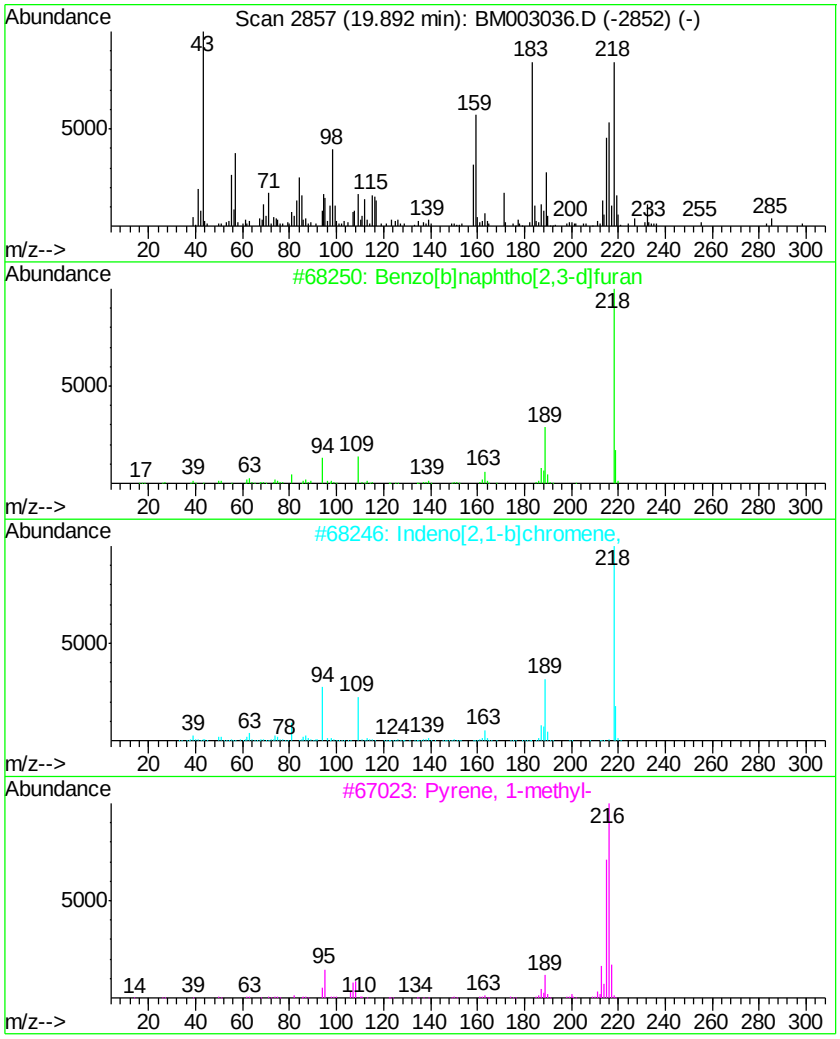
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

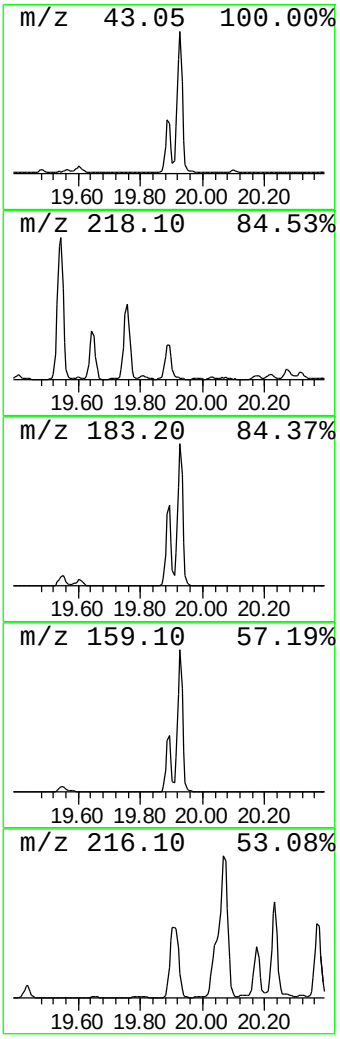
****

Peak Number 4 Benzo[b]naphtho[2,3-d]furan Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.89	2.81 ng/ul	459225	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	56
2	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	56
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	25
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	25
5	4-Bromo-3-nitroaniline	216	C6H5BrN2O2	053324-38-2	18





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

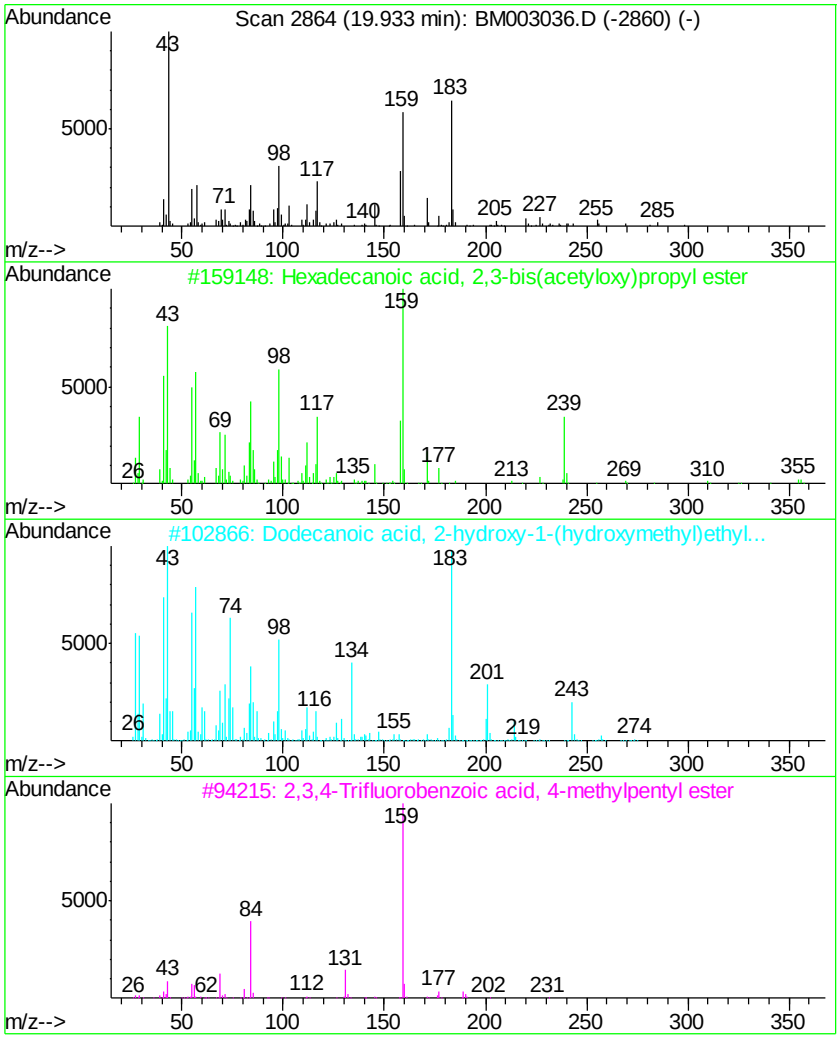
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

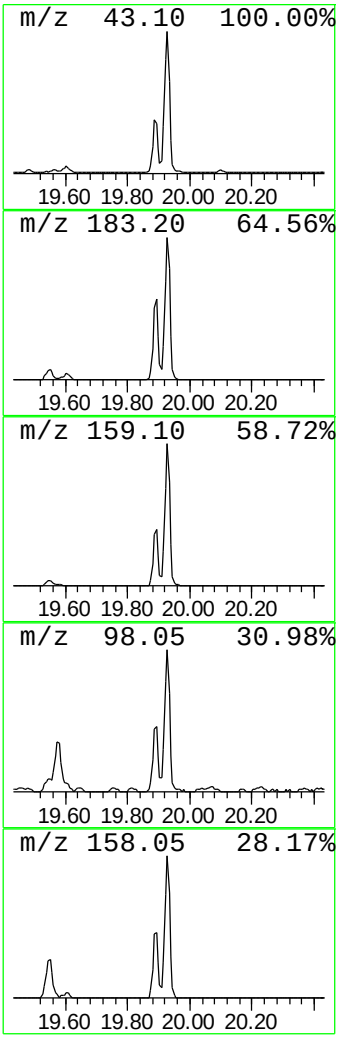
****

Peak Number 5 unknown-01 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.93	3.47 ng/ul	566273	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, 2,3-bis(acety...	414	C23H42O6	055268-70-7	35
2	Dodecanoic acid, 2-hydroxy-1-(hy...	274	C15H30O4	001678-45-1	32
3	2,3,4-Trifluorobenzoic acid, 4-m...	260	C13H15F3O2	1000282-29-8	14
4	1-Naphthalenecarbonitrile, 2-met...	183	C12H9NO	016000-39-8	10
5	Benzoylacetic acid, .alpha.-amin...	285	C13H16FNO5	1000130-35-8	10





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

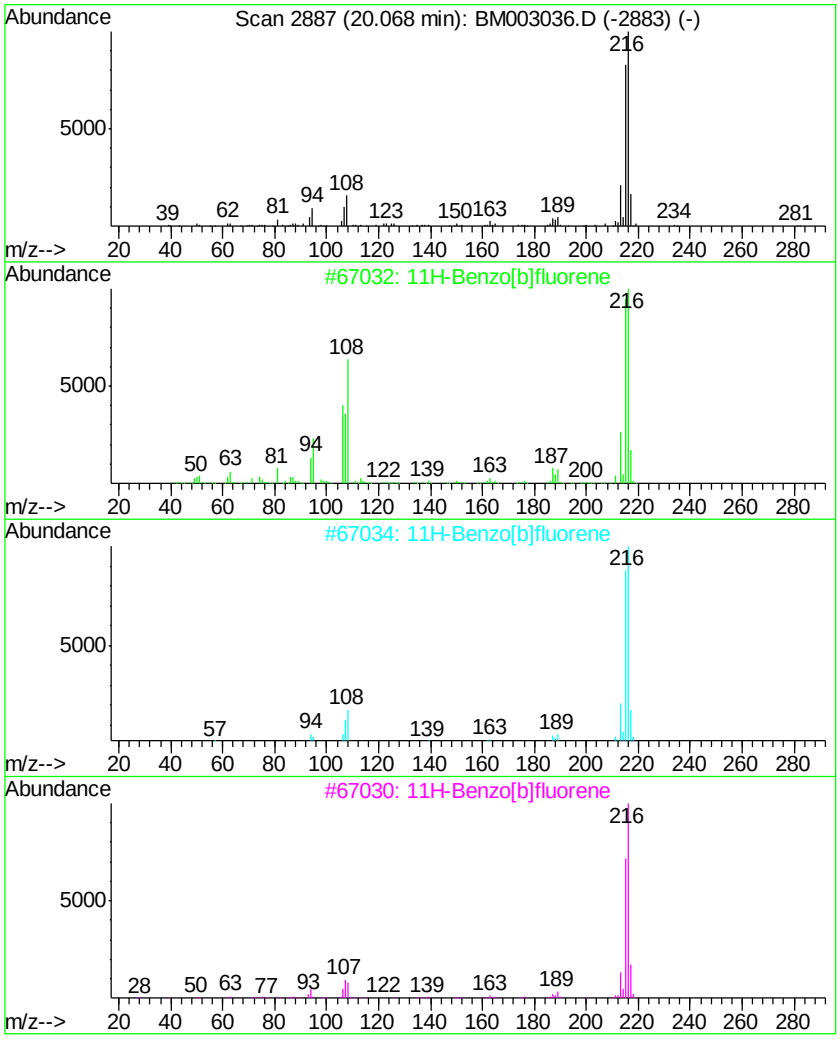
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

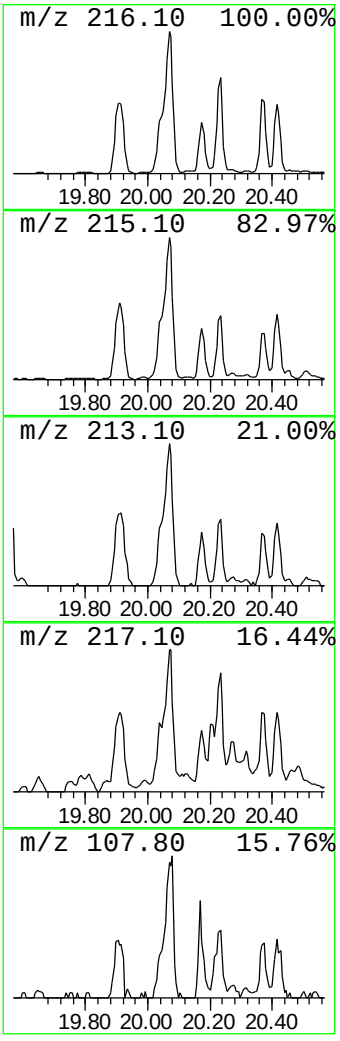
****

Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.07	2.09 ng/ul	341436	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.M
Quant Title : SVOA CALIBRATION

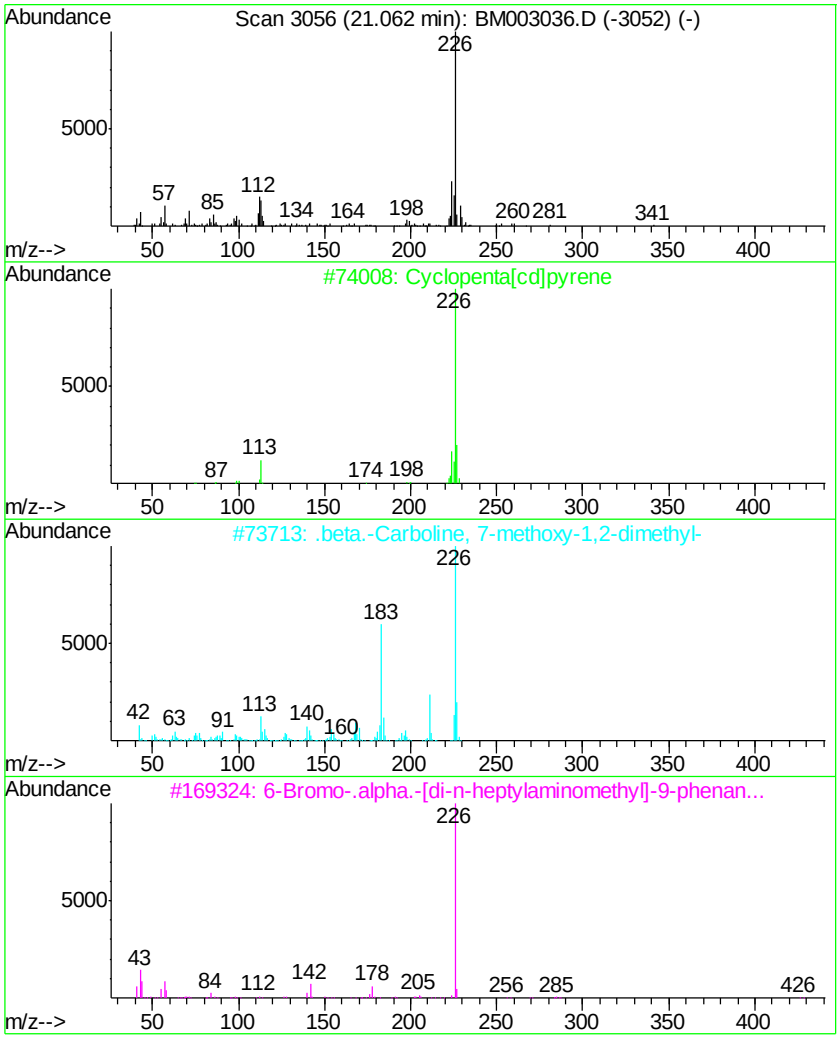
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

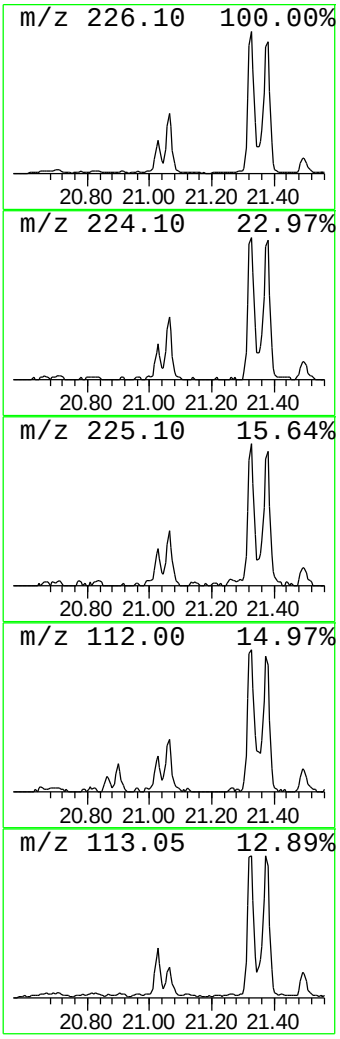
****

Peak Number 7 Cyclopenta[cd]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.06	2.02 ng/ul	330223	Chrysene-d12	21.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	50
3	6-Bromo-.alpha.-[di-n-heptylamin...	511	C30H42BrNO	027022-39-5	32
4	5(10H)-Pyrido[3,4-b]quinolone, 7...	226	C13H10N2O2	1000256-99-5	28
5	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM110115\
Data File : BM003036.D
Acq On : 01 Nov 2015 20:13
Operator : UM/IZ
Sample : G4210-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC771

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM103015.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...	18.03	4.3	ng/ul	447060	4	17.15	2087660	20.0
Phenanthrene, 1-m...	18.07	3.6	ng/ul	373480	4	17.15	2087660	20.0
4H-Cyclopenta[def...	18.22	4.1	ng/ul	427677	4	17.15	2087660	20.0
Benzo[b]naphtho[2...	19.89	2.8	ng/ul	459225	5	21.34	3263540	20.0
unknown-01	19.93	3.5	ng/ul	566273	5	21.34	3263540	20.0
11H-Benzo[b]fluorene	20.07	2.1	ng/ul	341436	5	21.34	3263540	20.0
Cyclopenta[cd]pyrene	21.06	2.0	ng/ul	330223	5	21.34	3263540	20.0