LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

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-BG121415.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	3.102	42	45	50	rVB2	7309	10960	1.87%	0.233%
2	7.409	773	778	784	rBB	1119	2021	0.34%	0.043%
3	8.085	887	893	904	rVB	52625	93835	15.97%	1.996%
4	8.625	980	985	990	rBB	3150	4605	0.78%	0.098%
5	10.523	1305	1308	1312	rBB2	1484	2067	0.35%	0.044%
6	10.899	1365	1372	1376	rBV	81695	147727	25.14%	3.142%
7	10.952	1376	1381	1393	rVV	124726	227418	38.71%	4.838%
8	11.070	1393	1401	1407	rVB2	2532	4887	0.83%	0.104%
9	12.550	1647	1653	1663	rBV	74269	122260	20.81%	2.601%
10	12.768	1681	1690	1699	rBB	34613	56754	9.66%	1.207%
11	13.549	1818	1823	1830	rBV	21664	31136	5.30%	0.662%
12	13.749	1852	1857	1865	rBB2	6783	11108	1.89%	0.236%
13	13.890	1874	1881	1889	rBB3	10672	25318	4.31%	0.539%
14	14.031	1900	1905	1911	rBV2	14426	25052	4.26%	0.533%
15	14.089	1911	1915	1924	rVV4	9820	22580	3.84%	0.480%
16	14.272	1941	1946	1950	rBV2	6046	8099	1.38%	0.172%
17	14.413	1964	1970	1972	rBV	5907	9366	1.59%	0.199%
18	14.718	2012	2022	2027	rBV2	149775	249660	42.49%	5.311%
19	14.777	2027	2032	2039	rVV	134216	205770	35.02%	4.377%
20	14.847	2039	2044	2050	rVB	3417	5430	0.92%	0.116%
21	14.912	2050	2055	2060	rBV2	2065	3789	0.64%	0.081%
22	15.024	2067	2074	2080	rBB2	3772	6454	1.10%	0.137%
23	15.112	2083	2089	2097	rBV	89061	132808	22.60%	2.825%
24	15.182	2097	2101	2107	rVB	3385	4556	0.78%	0.097%
25	15.323	2122	2125	2131	rVB2	2080	3389	0.58%	0.072%
26	15.376	2131	2134	2138	rBB	2325	2972	0.51%	0.063%
27	15.500	2149	2155	2158	rBV	1334	2824	0.48%	0.060%
28	15.682	2181	2186	2187	rVV	2145	2696	0.46%	0.057%
29	15.705	2187	2190	2194	rVV	9304	12340	2.10%	0.262%
30	15.758	2194	2199	2209	rVB	119614	184525	31.40%	3.925%
31	15.852	2209	2215	2217	rBV2	4531	6395	1.09%	0.136%
32	15.882	2217	2220	2223	rVV2	7825	11882	2.02%	0.253%
33	15.923	2223	2227	2232	rVV3	14476	23397	3.98%	0.498%
34	15.976	2232	2236	2238	rVV2	3103	4565	0.78%	0.097%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

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-BG121415.M
Title : SVOA CALIBRATION

35	16.011	2238	2242	2245	rVV2	6639	10542	1.79%	0.224%
36	16.052	2245	2249	2255	rVB	16608	22862	3.89%	0.486%
37	16.199	2269	2274	2283	rVB	17525	33617	5.72%	0.715%
38	16.287	2284	2289	2295	rBB2	2555	4250	0.72%	0.090%
39	16.551	2330	2334	2340	rVB2	9670	12701	2.16%	0.270%
40	16.763	2360	2370	2375	rBV3	11215	23985	4.08%	0.510%
41	16.810	2375	2378	2383	rVB3	4200	5865	1.00%	0.125%
42	16.863	2383	2387	2391	rBV4	1282	1766	0.30%	0.038%
43	16.910	2391	2395	2401	rVB3	4698	7200	1.23%	0.153%
44	16.986	2401	2408	2411	rBV3	3720	7410	1.26%	0.158%
45	17.027	2412	2415	2419	rVB3	3595	4619	0.79%	0.098%
46	17.121	2427	2431	2436	rVB5	1766	3381	0.58%	0.072%
47	17.192	2436	2443	2445	rBV4	4786	9101	1.55%	0.194%
48	17.280	2452	2458	2466	rVB	24020	34829	5.93%	0.741%
49	17.462	2482	2489	2492	rBV	195755	305518	52.00%	6.499%
50	17.503	2492	2496	2502	rVV	413525	587566	100.00%	12.499%
51	17.556	2502	2505	2508	rVV	11522	18462	3.14%	0.393%
52	17.591	2508	2511	2516	rVB	25640	35681	6.07%	0.759%
53	17.862	2549	2557	2568	rBV	11410	21551	3.67%	0.458%
54	17.979	2573	2577	2582	rBV3	4209	6174	1.05%	0.131%
55	18.179	2602	2611	2617	rBV2	2039	4301	0.73%	0.091%
56	18.332	2632	2637	2641	rBV	23092	32510	5.53%	0.692%
57	18.384	2641	2646	2652	rVB	32711	46646	7.94%	0.992%
58	18.461	2652	2659	2665	rBV	8991	14970	2.55%	0.318%
59	18.531	2665	2671	2675	rBV2	44903	75038	12.77%	1.596%
60	18.631	2684	2688	2692	rBV2	1245	1897	0.32%	0.040%
61	18.766	2708	2711	2717	rVB3	1749	2884	0.49%	0.061%
62	18.825	2717	2721	2726	rBV	17093	24276	4.13%	0.516%
63	18.948	2739	2742	2747	rVB	1677	2151	0.37%	0.046%
64	19.072	2759	2763	2768	rVB2	3493	4739	0.81%	0.101%
65	19.119	2768	2771	2775	rBV	2961	3952	0.67%	0.084%
66	19.160	2775	2778	2784	rVV2	2196	2722	0.46%	0.058%
67	19.242	2787	2792	2798	rVV4	5272	9511	1.62%	0.202%
68	19.307	2798	2803	2812	rVB3	3594	8053	1.37%	0.171%
69	19.401	2817	2819	2825	rVB2	1424	1939	0.33%	0.041%
70	19.507	2831	2837	2844	rBV	230820	322815	54.94%	6.867%
71	19.565	2844	2847	2849	rVV	2523	2878	0.49%	0.061%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

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-BG121415.M
Title : SVOA CALIBRATION

72	19.601	2851	2853	2857	rVB3	2569	3010	0.51%	0.064%
73	19.753	2873	2879	2886	rVB	5381	9278	1.58%	0.197%
74	19.842	2886	2894	2895	rBV2	50271	68251	11.62%	1.452%
75	19.871	2895	2899	2907	rVV	141185	209205	35.61%	4.450%
76	19.936	2907	2910	2916	rVB2	7109	10080	1.72%	0.214%
77	20.047	2919	2929	2935	rBV	7979	13763	2.34%	0.293%
78	20.106	2935	2939	2942	rBV2	1671	2394	0.41%	0.051%
79	20.182	2947	2952	2954	rBV3	5869	9083	1.55%	0.193%
80	20.241	2960	2962	2967	rVB2	3099	4136	0.70%	0.088%
81	20.359	2969	2982	2987	rBV	24006	42892	7.30%	0.912%
82	20.459	2992	2999	3003	rBV	27839	39569	6.73%	0.842%
83	20.517	3004	3009	3013	rVV2	7069	13431	2.29%	0.286%
84	20.552	3013	3015	3018	rVB2	4314	4118	0.70%	0.088%
85	20.652	3030	3032	3036	rBV3	2439	2615	0.45%	0.056%
86	20.699	3037	3040	3044	rVB3	3993	4350	0.74%	0.093%
87	20.887	3068	3072	3076	rVB3	3637	4870	0.83%	0.104%
88	20.952	3081	3083	3085	rVV2	1914	1826	0.31%	0.039%
89	20.987	3085	3089	3094	rVB7	2934	5581	0.95%	0.119%
90	21.075	3102	3104	3108	rVB3	2098	2165	0.37%	0.046%
91	21.181	3120	3122	3126	rBV4	1833	1794	0.31%	0.038%
92	21.310	3141	3144	3148	rBV	4448	4774	0.81%	0.102%
93	21.352	3148	3151	3156	rVB2	4563	6265	1.07%	0.133%
94	21.404	3156	3160	3167	rBV4	4170	8162	1.39%	0.174%
95	21.733	3207	3216	3222	rBV	250338	463242	78.84%	9.854%
96	21.933	3247	3250	3255	rVB3	4798	8000	1.36%	0.170%
97	23.960	3590	3595	3603	rBV2	5833	17204	2.93%	0.366%
98	24.765	3729	3732	3734	rBV4	3029	4465	0.76%	0.095%
99	25.000	3763	3772	3786	rBV2	118194	347755	59.19%	7.398%
100	28.702	4400	4402	4404	rBV2	1604	1688	0.29%	0.036%

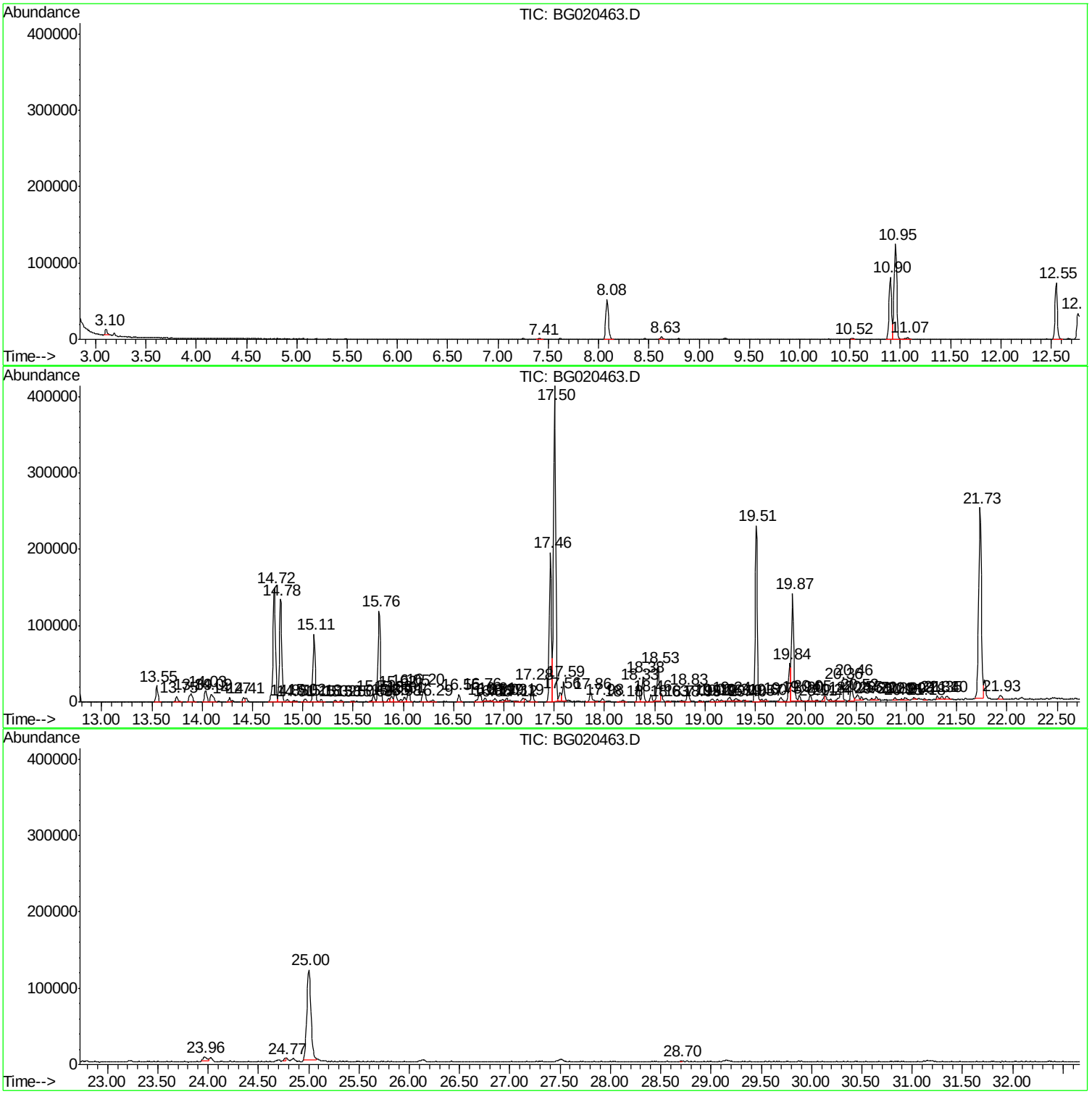
Sum of corrected areas: 4700973

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

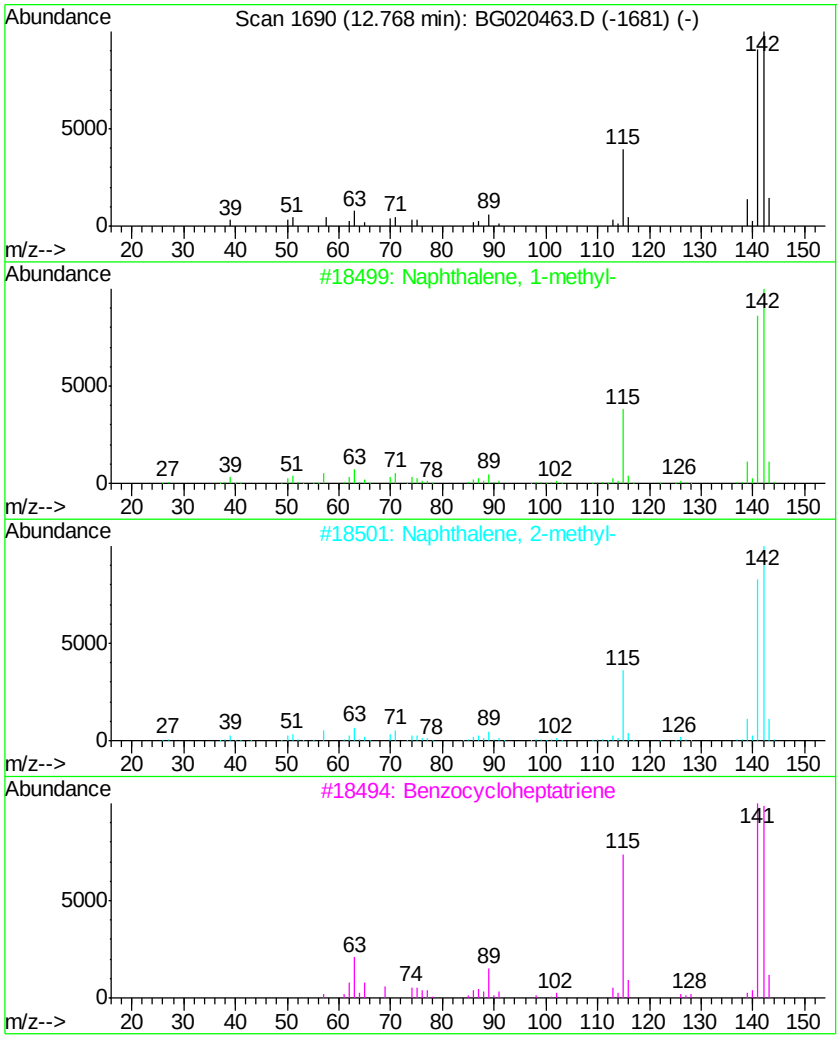
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

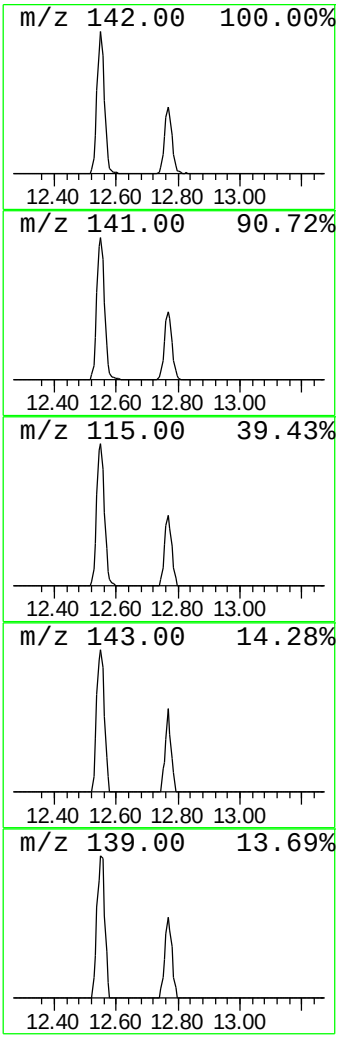
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	7.68 ng/ul	56754	Naphthalene-d8	10.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

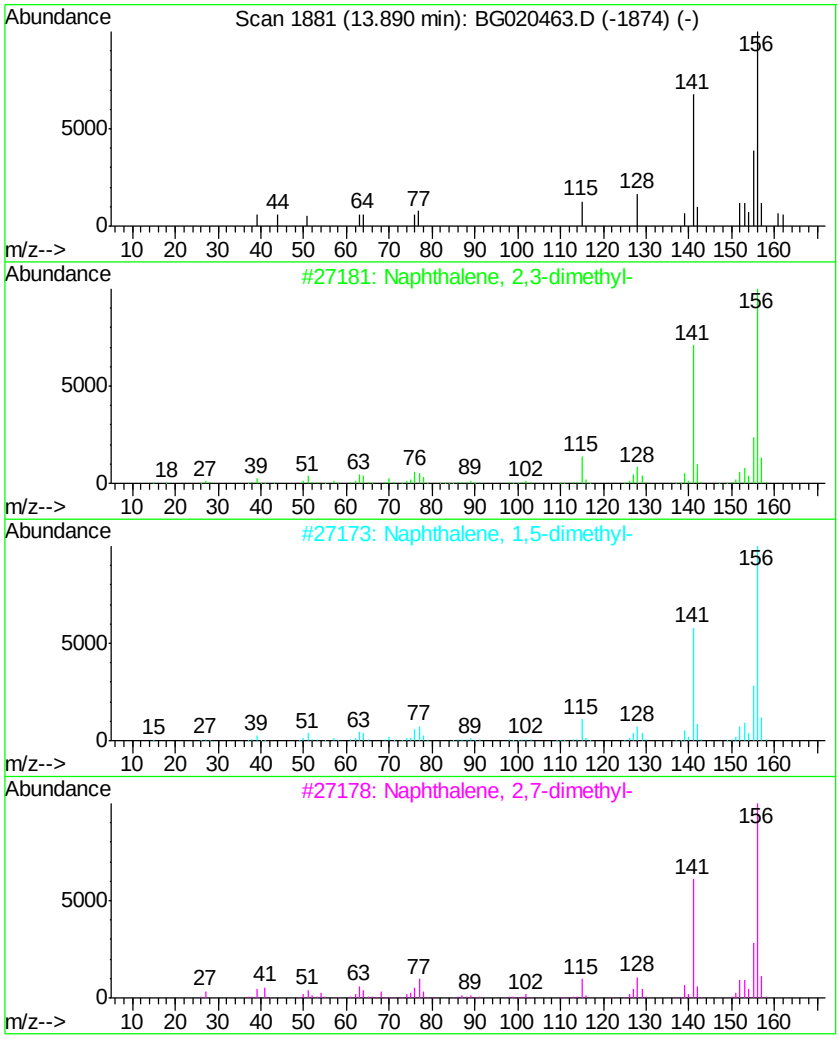
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

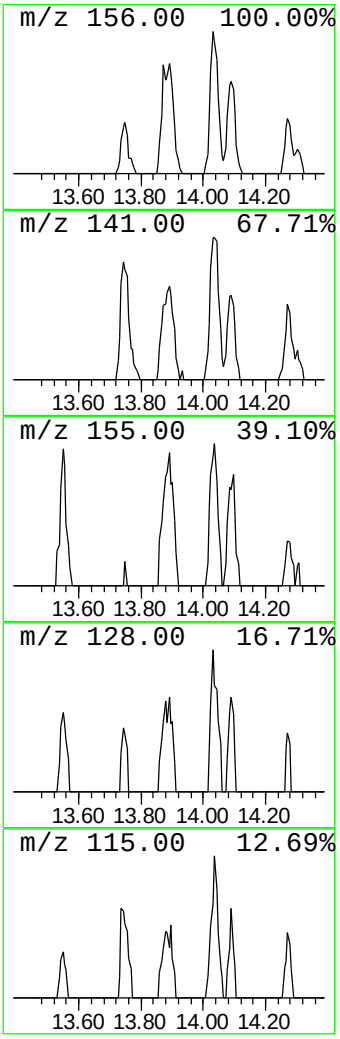
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	2.03 ng/ul	25318	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	93
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	93
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	93
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

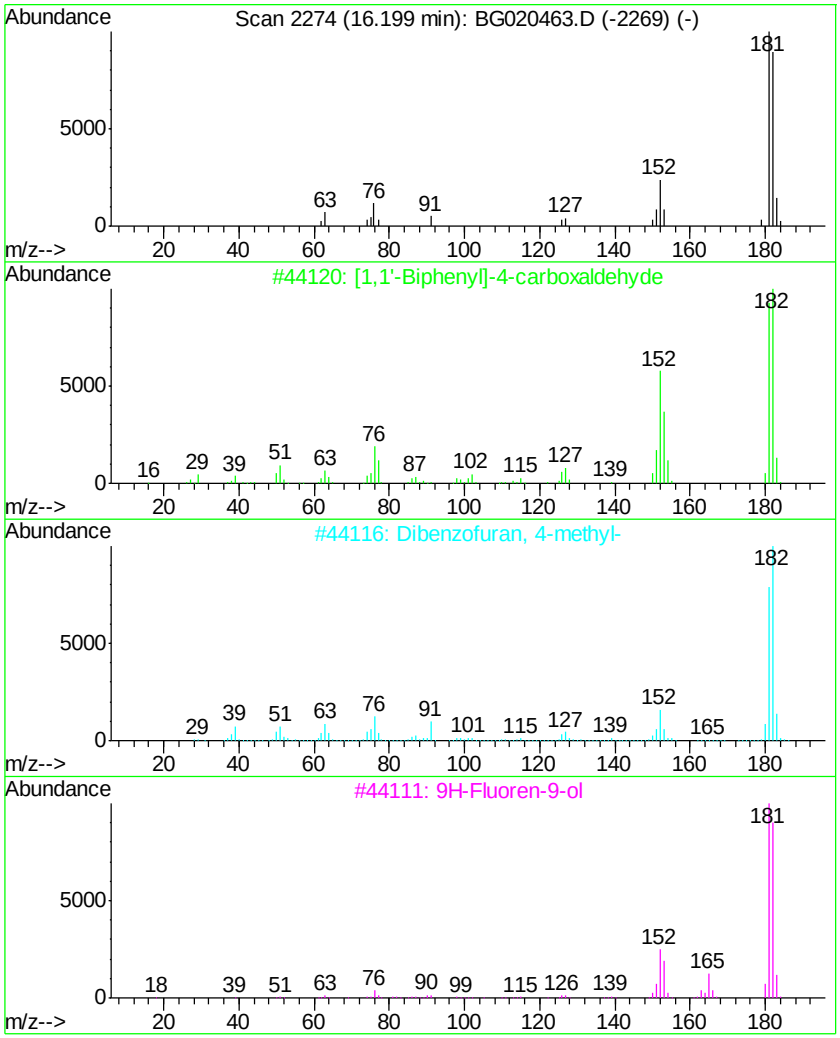
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

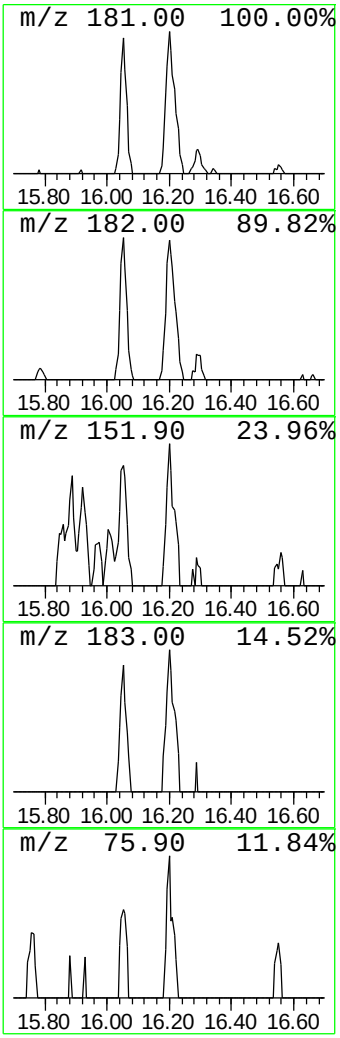
****

Peak Number 5 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.20	2.20 ng/ul	33617	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	90
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

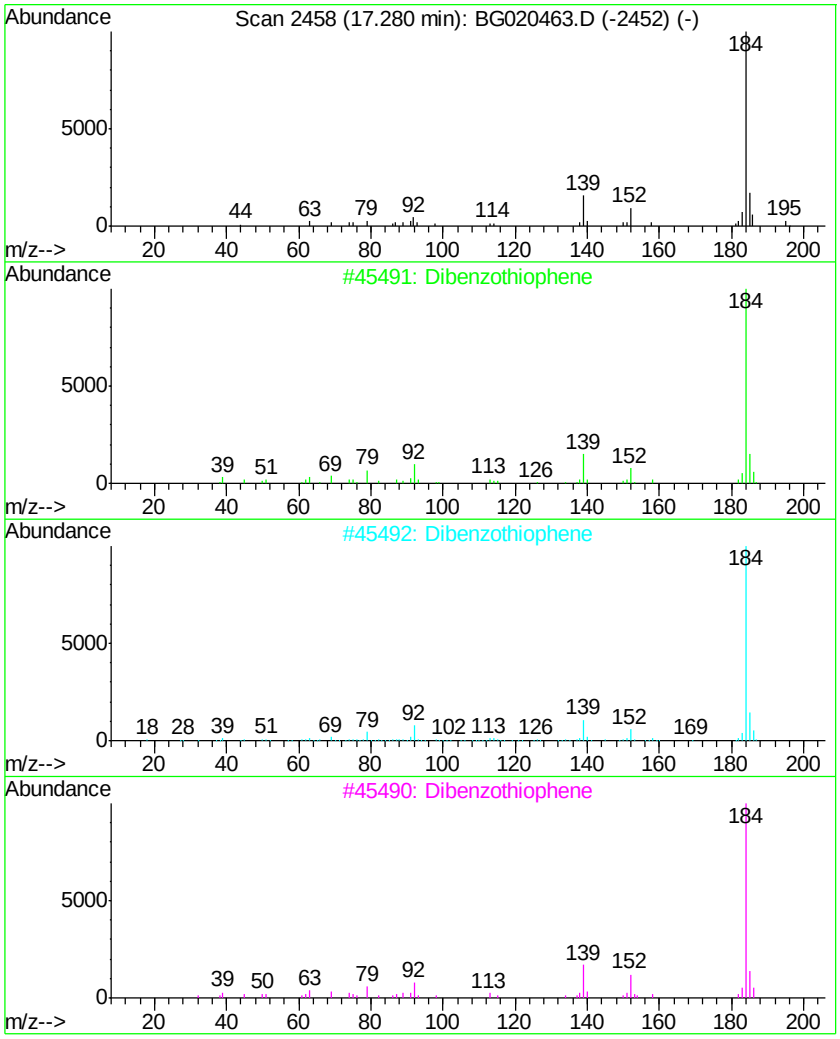
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

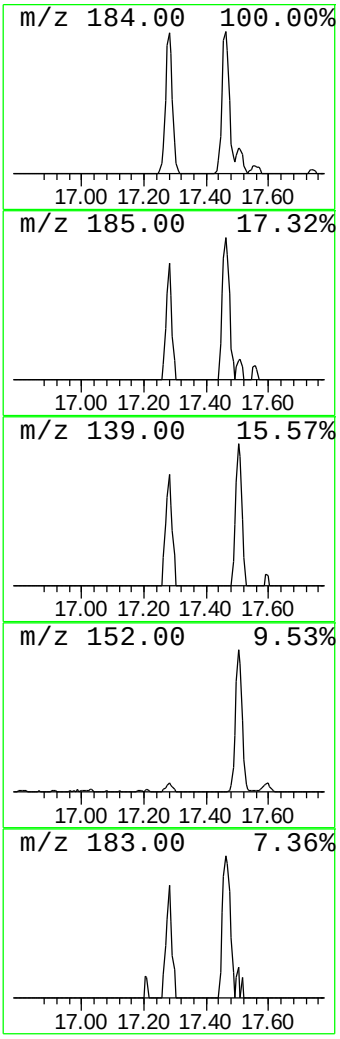
****

Peak Number 6 Dibenzothiophene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	2.28 ng/ul	34829	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	91
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

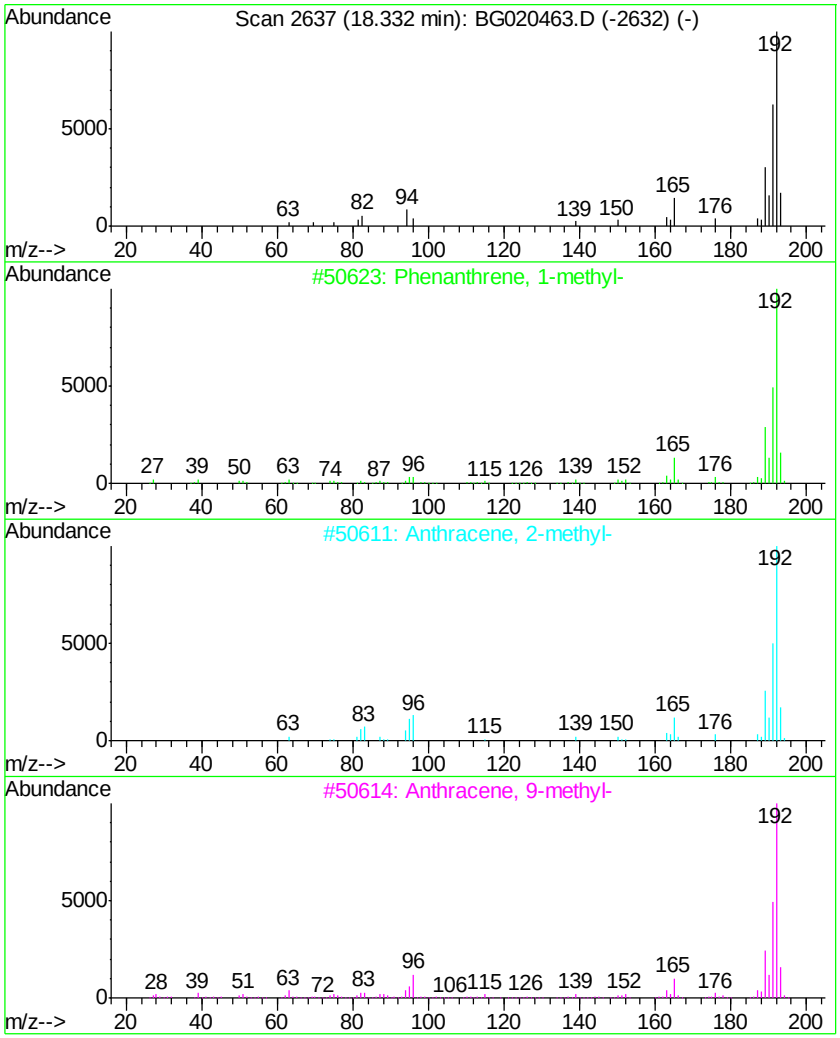
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

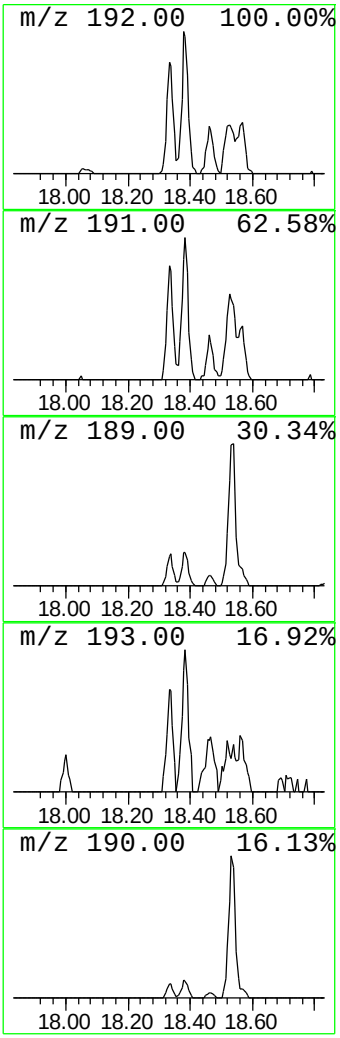
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	2.13 ng/ul	32510	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

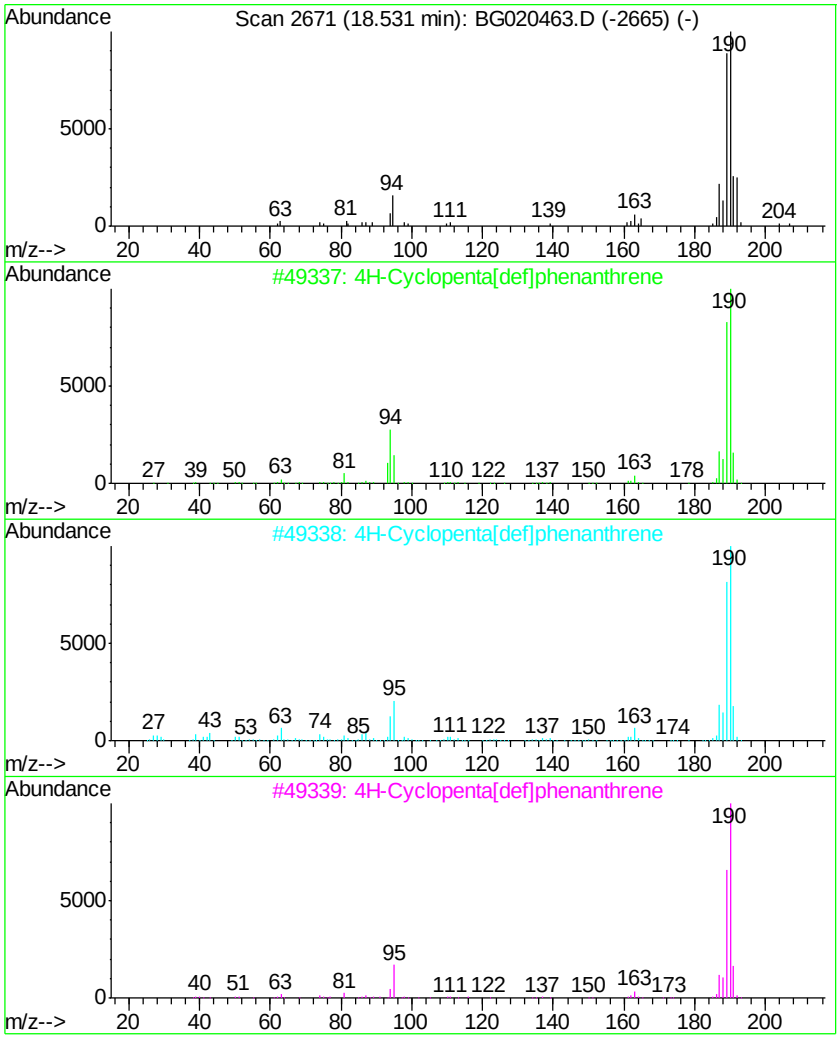
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

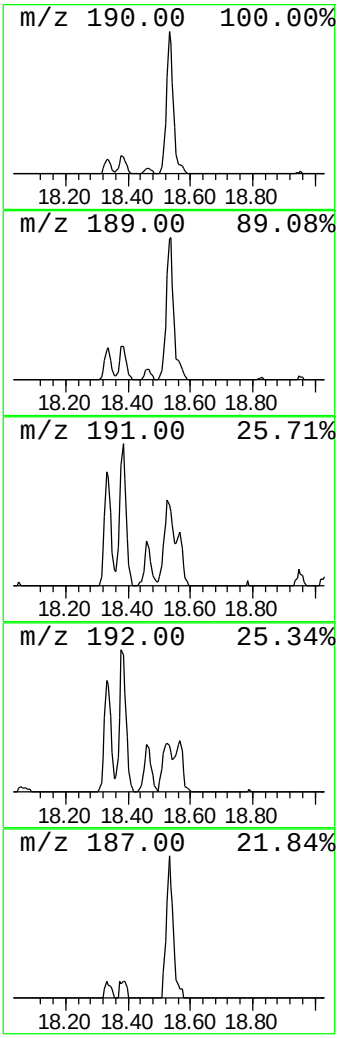
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	4.91 ng/ul	75038	Phenanthrene-d10	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	Methyl diselenide	190	C2H6Se2	007101-31-7	55
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020463.D
Acq On : 24 Dec 2015 4:00
Operator : UM/SJ
Sample : G4848-08MEDL 20X
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N54MEDL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.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
Naphthalene, 1-me...	12.77	7.7	ng/ul	56754	2	10.90	147727	20.0
Naphthalene, 2,3-...	13.89	2.0	ng/ul	25318	3	14.72	249660	20.0
[1,1'-Biphenyl]-4...	16.20	2.2	ng/ul	33617	4	17.46	305518	20.0
Dibenzothiophene	17.28	2.3	ng/ul	34829	4	17.46	305518	20.0
Phenanthrene, 1-m...	18.33	2.1	ng/ul	32510	4	17.46	305518	20.0
4H-Cyclopenta[def...	18.53	4.9	ng/ul	75038	4	17.46	305518	20.0