LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

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-BG050916.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	7.327	755	764	774	rBV	90616	190690	1.97%	0.236%
2	7.486	785	791	799	rBV	78746	150446	1.56%	0.186%
3	7.703	820	828	837	rBV	111914	217853	2.25%	0.270%
4	8.173	897	908	922	rBV	178020	365114	3.78%	0.452%
5	8.878	1019	1028	1035	rBV	110729	221792	2.29%	0.275%
6	9.342	1100	1107	1119	rBV	90455	200306	2.07%	0.248%
7	10.065	1223	1230	1242	rBV	74540	162321	1.68%	0.201%
8	10.611	1316	1323	1332	rBV	139965	290312	3.00%	0.360%
9	10.993	1380	1388	1393	rVV	303798	629127	6.51%	0.780%
10	11.040	1393	1396	1404	rVV	160290	298377	3.09%	0.370%
11	11.128	1404	1411	1424	rVB	42898	106148	1.10%	0.132%
12	12.638	1661	1668	1676	rVB	58128	103805	1.07%	0.129%
13	12.856	1698	1705	1712	rVB	41269	77285	0.80%	0.096%
14	13.631	1834	1837	1843	rVV	17987	33226	0.34%	0.041%
15	13.972	1886	1895	1902	rVB3	17864	51130	0.53%	0.063%
16	14.119	1914	1920	1925	rBV2	34468	68398	0.71%	0.085%
17	14.190	1925	1932	1937	rVV	280983	504062	5.22%	0.625%
18	14.242	1937	1941	1947	rVB	104789	181347	1.88%	0.225%
19	14.354	1955	1960	1970	rVB2	17165	36736	0.38%	0.046%
20	14.495	1976	1984	1996	rBV	391088	703595	7.28%	0.872%
21	14.666	2009	2013	2018	rVB	25283	36666	0.38%	0.045%
22	14.801	2023	2036	2041	rBV2	458689	878072	9.08%	1.088%
23	14.859	2041	2046	2053	rVB	417652	707213	7.32%	0.876%
24	15.000	2063	2070	2078	rBV3	33773	87331	0.90%	0.108%
25	15.100	2083	2087	2094	rVV4	22625	49545	0.51%	0.061%
26	15.194	2094	2103	2111	rVV	135297	266063	2.75%	0.330%
27	15.271	2111	2116	2124	rVB5	15844	39540	0.41%	0.049%
28	15.576	2161	2168	2171	rBV5	21457	44213	0.46%	0.055%
29	15.611	2171	2174	2180	rVB	45372	65850	0.68%	0.082%
30	15.788	2195	2204	2209	rBV	485806	825985	8.55%	1.023%
31	15.841	2209	2213	2220	rVB2	206902	355486	3.68%	0.440%
32	15.917	2220	2226	2231	rBV3	39984	84523	0.87%	0.105%
33	16.005	2237	2241	2246	rVV3	36997	66341	0.69%	0.082%
34	16.087	2252	2255	2258	rBV2	19077	28722	0.30%	0.036%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

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-BG050916.M
Title : SVOA CALIBRATION

35	16.129	2258	2262	2268	rVB	46025	79042	0.82%	0.098%
36	16.281	2283	2288	2296	rVB	50423	110405	1.14%	0.137%
37	16.475	2316	2321	2322	rBV2	52400	64754	0.67%	0.080%
38	16.505	2322	2326	2338	rVB5	82796	204718	2.12%	0.254%
39	16.804	2371	2377	2381	rBV3	37277	83514	0.86%	0.103%
40	16.845	2381	2384	2388	rVV3	37847	58893	0.61%	0.073%
41	17.069	2414	2422	2425	rBV5	34049	83866	0.87%	0.104%
42	17.110	2426	2429	2438	rVV4	31939	69999	0.72%	0.087%
43	17.198	2438	2444	2451	rVV	197329	340778	3.53%	0.422%
44	17.268	2451	2456	2467	rBV2	74014	215746	2.23%	0.267%
45	17.362	2467	2472	2478	rVB	146294	239430	2.48%	0.297%
46	17.544	2496	2503	2506	rBV2	480405	925952	9.58%	1.147%
47	17.592	2506	2511	2516	rVV	2805763	4922790	50.93%	6.099%
48	17.644	2516	2520	2523	rVV2	561626	976092	10.10%	1.209%
49	17.680	2523	2526	2531	rVV	586623	901197	9.32%	1.117%
50	17.733	2531	2535	2544	rVB	89805	189129	1.96%	0.234%
51	17.944	2562	2571	2578	rBV	519597	1037234	10.73%	1.285%
52	18.003	2579	2581	2586	rVV3	49002	73161	0.76%	0.091%
53	18.056	2586	2590	2595	rVV3	43171	85742	0.89%	0.106%
54	18.126	2597	2602	2609	rVB4	45793	89142	0.92%	0.110%
55	18.344	2635	2639	2642	rBV3	19800	31066	0.32%	0.038%
56	18.414	2645	2651	2655	rBV	251526	441906	4.57%	0.548%
57	18.467	2655	2660	2666	rVB2	359472	605351	6.26%	0.750%
58	18.543	2668	2673	2678	rVB	106601	169782	1.76%	0.210%
59	18.614	2678	2685	2689	rBV3	424710	880431	9.11%	1.091%
60	18.702	2696	2700	2706	rBV4	48627	107818	1.12%	0.134%
61	18.761	2706	2710	2714	rVV3	51333	76265	0.79%	0.094%
62	18.849	2722	2725	2729	rVB3	30005	40648	0.42%	0.050%
63	18.908	2730	2735	2739	rVV	206046	320057	3.31%	0.397%
64	18.955	2739	2743	2751	rVB	236550	381772	3.95%	0.473%
65	19.148	2772	2776	2781	rBV3	58964	89084	0.92%	0.110%
66	19.201	2781	2785	2788	rBV2	39773	52893	0.55%	0.066%
67	19.237	2788	2791	2796	rVB2	49172	67125	0.69%	0.083%
68	19.319	2800	2805	2811	rBV2	157349	329482	3.41%	0.408%
69	19.472	2826	2831	2838	rVB2	194870	344265	3.56%	0.427%
70	19.595	2844	2852	2858	rBV	4232611	7733358	80.01%	9.582%
71	19.683	2863	2867	2872	rVB	118412	187997	1.95%	0.233%

LSC Area Percent Report

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Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

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-BG050916.M
Title : SVOA CALIBRATION

72	19.777	2879	2883	2886	rBV4	57355	104360	1.08%	0.129%
73	19.830	2888	2892	2901	rVV2	183608	386356	4.00%	0.479%
74	19.959	2901	2914	2919	rVV4	3758218	8640077	89.39%	10.705%
75	20.012	2919	2923	2930	rVB3	191612	322054	3.33%	0.399%
76	20.124	2937	2942	2947	rVB	178979	275532	2.85%	0.341%
77	20.188	2948	2953	2959	rVB	272061	424343	4.39%	0.526%
78	20.271	2960	2967	2972	rBV3	255352	627174	6.49%	0.777%
79	20.324	2972	2976	2983	rVV	156742	252774	2.62%	0.313%
80	20.435	2983	2995	3000	rVV2	424711	1176517	12.17%	1.458%
81	20.535	3008	3012	3015	rBV	195253	300547	3.11%	0.372%
82	20.594	3016	3022	3025	rVV2	286767	564518	5.84%	0.699%
83	20.629	3025	3028	3032	rVB2	191463	260993	2.70%	0.323%
84	20.735	3042	3046	3049	rBV	177798	267971	2.77%	0.332%
85	20.782	3050	3054	3062	rVB	198577	345215	3.57%	0.428%
86	21.211	3122	3127	3134	rVB	449142	757418	7.84%	0.938%
87	21.399	3152	3159	3163	rBV3	530574	1167439	12.08%	1.446%
88	21.440	3163	3166	3171	rVV	442428	714217	7.39%	0.885%
89	21.499	3171	3176	3181	rVV2	520016	1100153	11.38%	1.363%
90	21.557	3182	3186	3198	rVB	459788	937342	9.70%	1.161%
91	21.687	3204	3208	3216	rVB2	175358	321420	3.33%	0.398%
92	21.828	3219	3232	3237	rVV3	2605842	7164734	74.13%	8.877%
93	21.892	3238	3243	3255	rVB	2117300	4344319	44.95%	5.383%
94	22.045	3264	3269	3275	rBV	379040	674502	6.98%	0.836%
95	22.257	3300	3305	3312	rVB2	408210	796271	8.24%	0.987%
96	22.879	3406	3411	3415	rBV2	140196	295338	3.06%	0.366%
97	24.149	3614	3627	3645	rBV	1748878	9665100	100.00%	11.975%
98	24.395	3665	3669	3681	rVB	285324	752977	7.79%	0.933%
99	24.895	3744	3754	3765	rBV3	849251	3242126	33.54%	4.017%
100	25.059	3773	3782	3793	rVB	1339075	4087959	42.30%	5.065%

Sum of corrected areas: 80708250

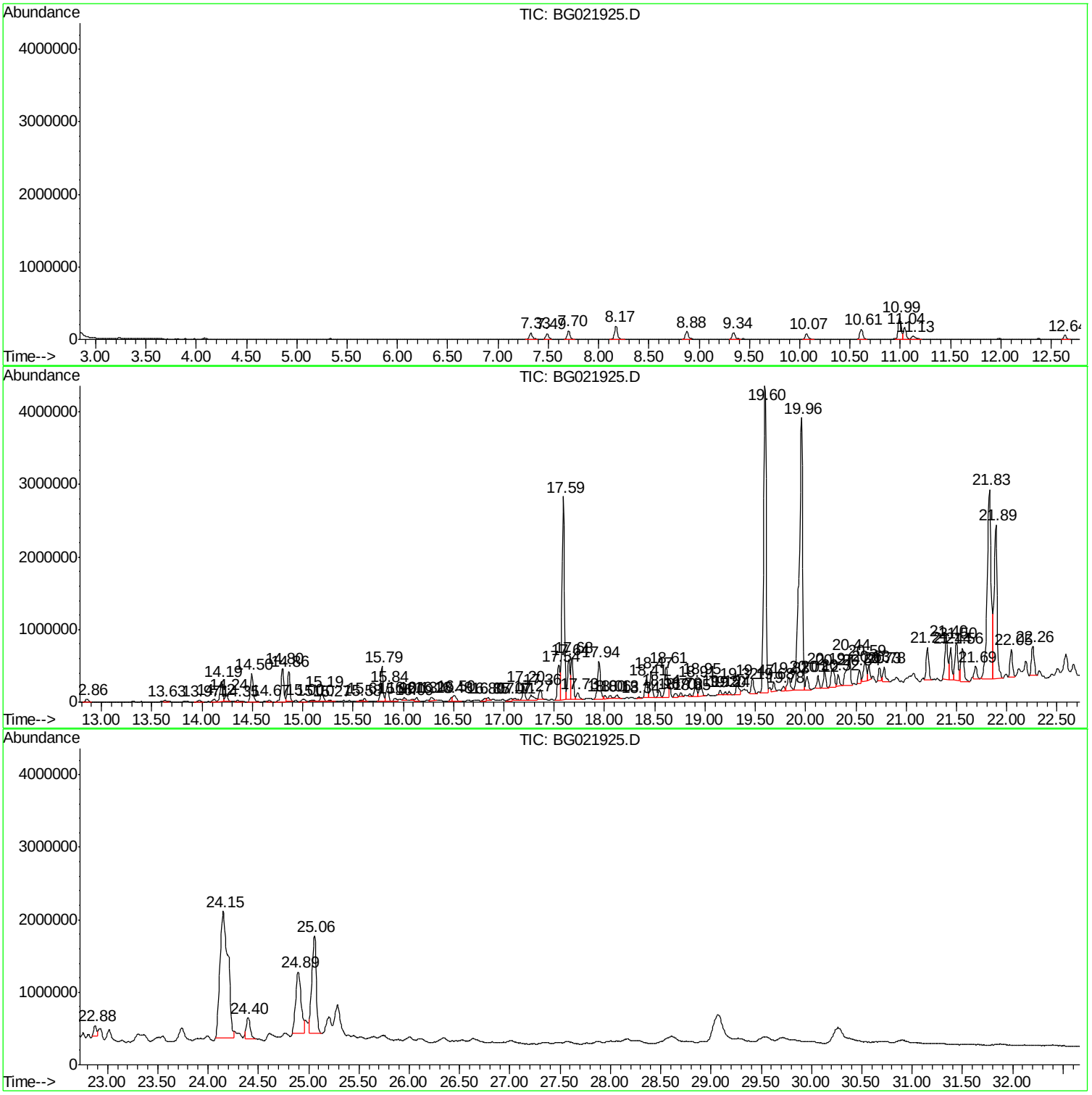
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
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Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

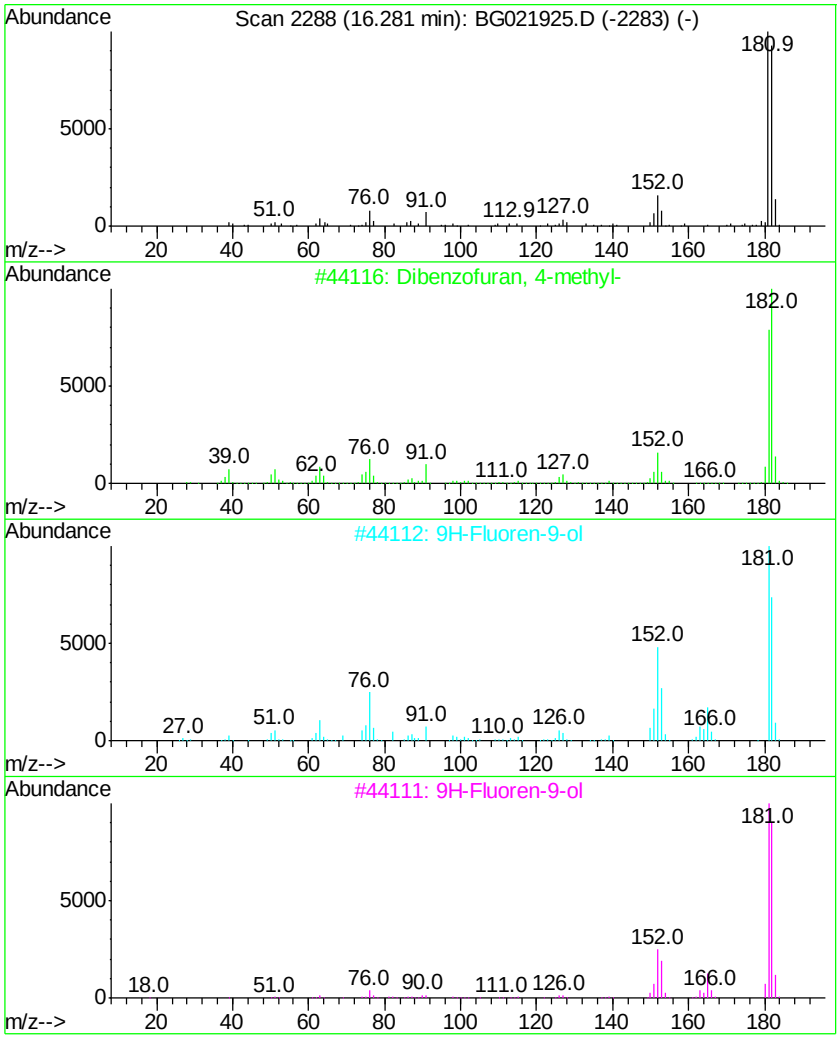
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

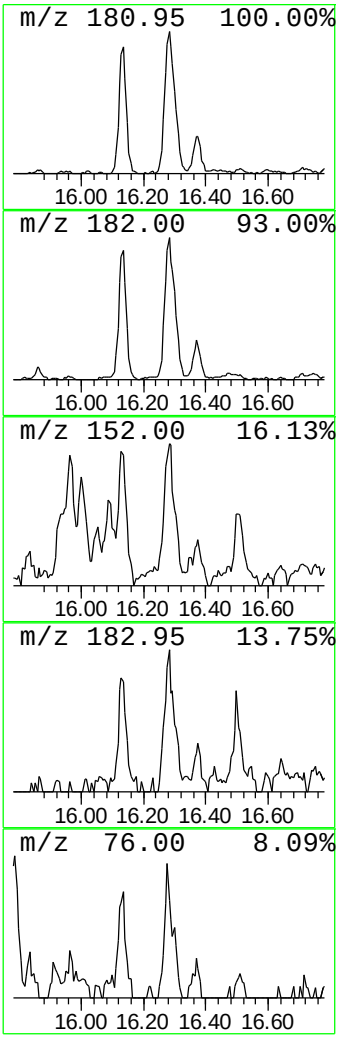
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	2.38 ng/ul	110405	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
5	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	80





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

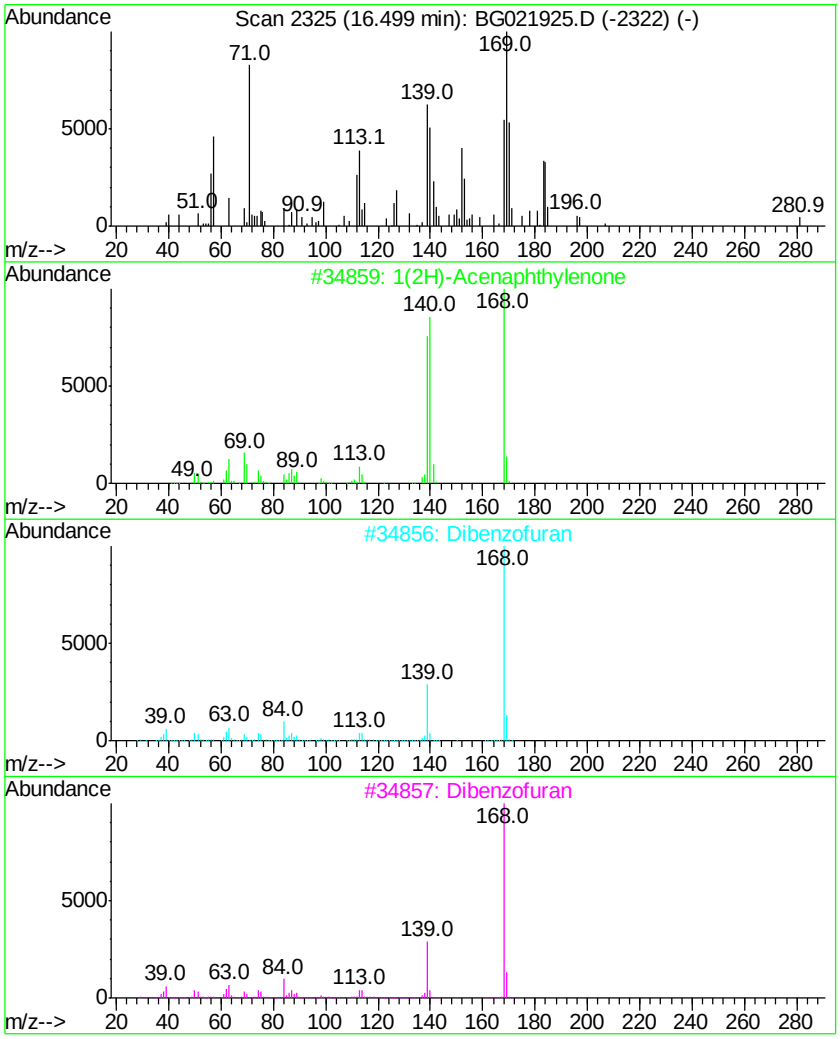
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

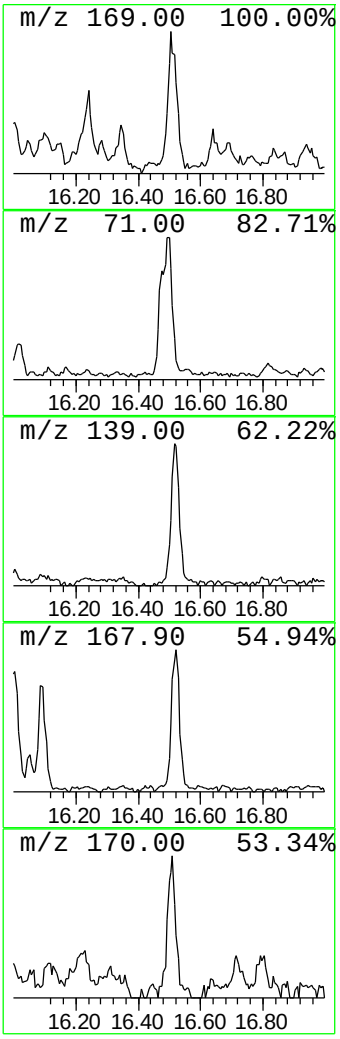
****

Peak Number 3 1(2H)-Acenaphthylenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.50	4.42 ng/ul	204718	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	55
2	Dibenzofuran	168	C12H8O	000132-64-9	42
3	Dibenzofuran	168	C12H8O	000132-64-9	42
4	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	38
5	1-Acenaphthenol	170	C12H10O	006306-07-6	30





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

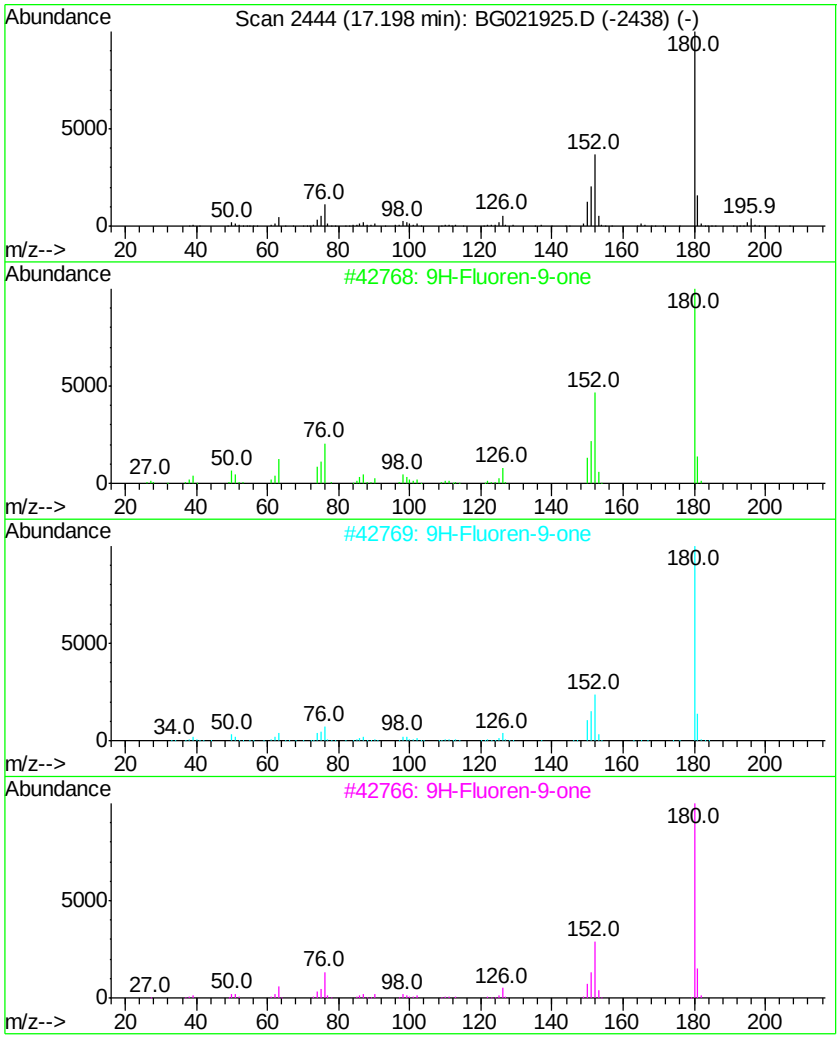
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

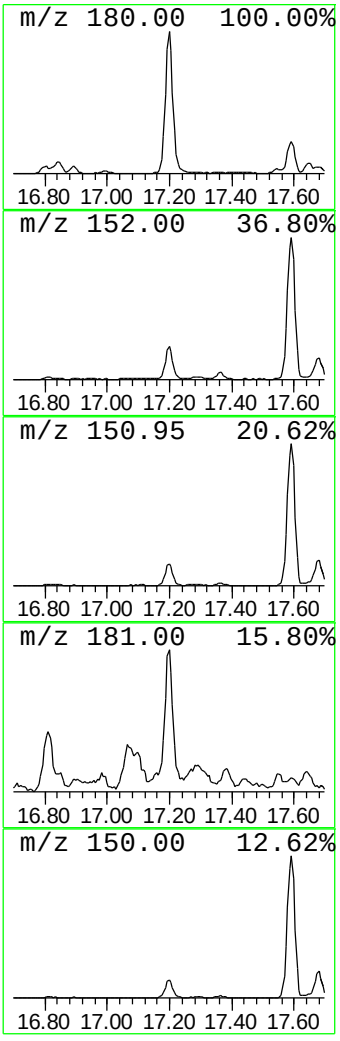
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	7.36 ng/ul	340778	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

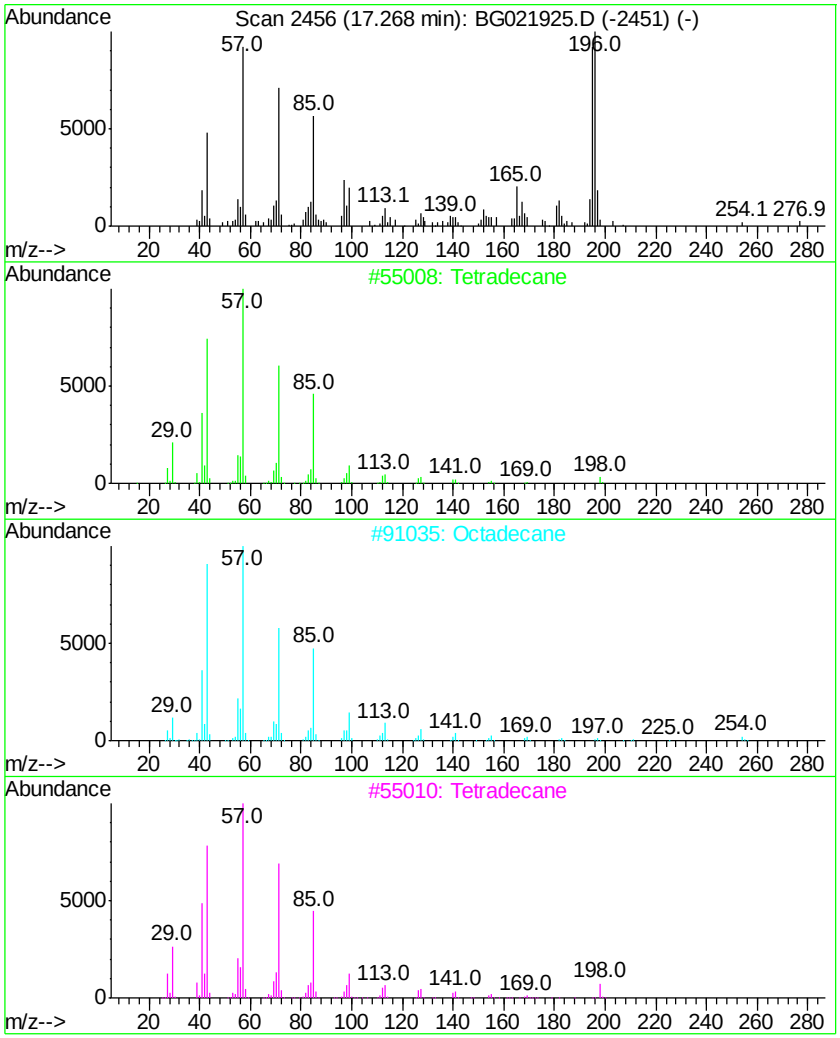
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

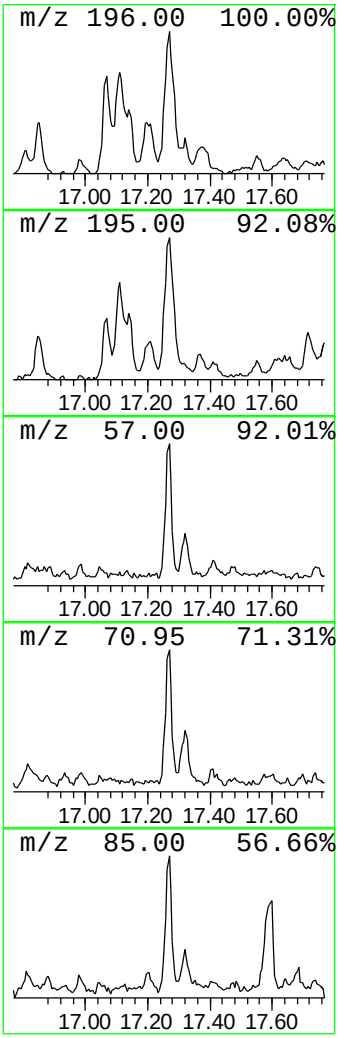
****

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.27	4.66 ng/ul	215746	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	53
2	Octadecane	254	C18H38	000593-45-3	47
3	Tetradecane	198	C14H30	000629-59-4	44
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	42
5	.beta.-Carboline, 1,2-dimethyl-	196	C13H12N2	109847-05-4	38





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

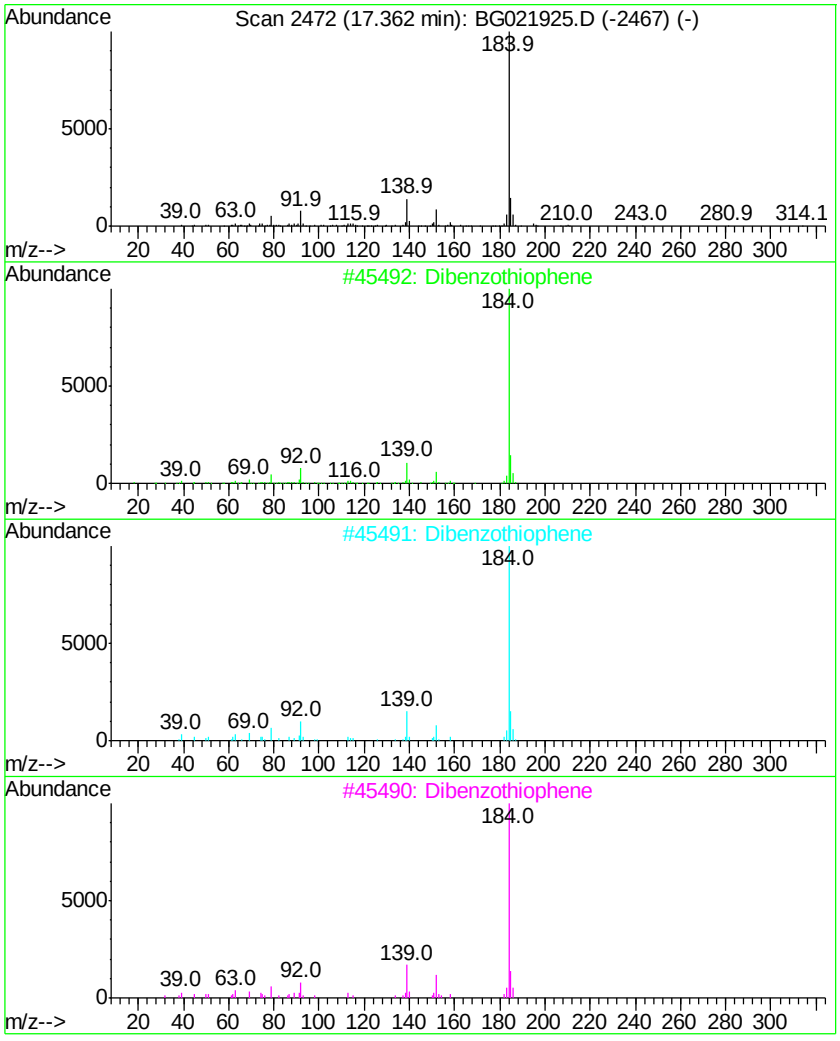
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

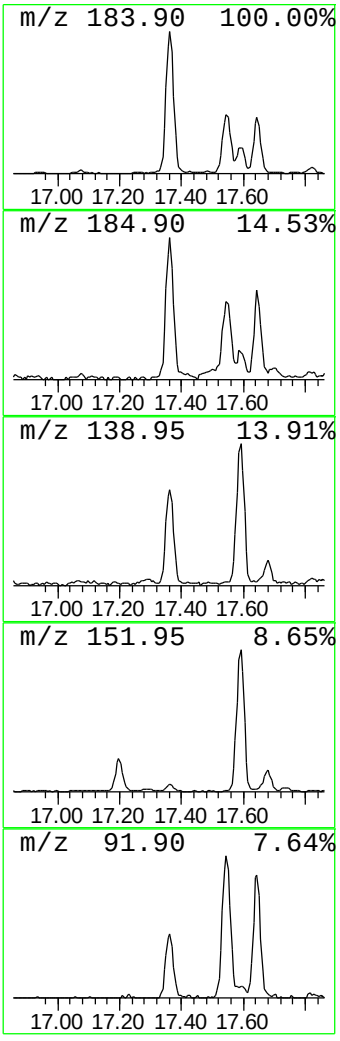
****

Peak Number 6 Dibenzothiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.36	5.17 ng/ul	239430	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	94
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93





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Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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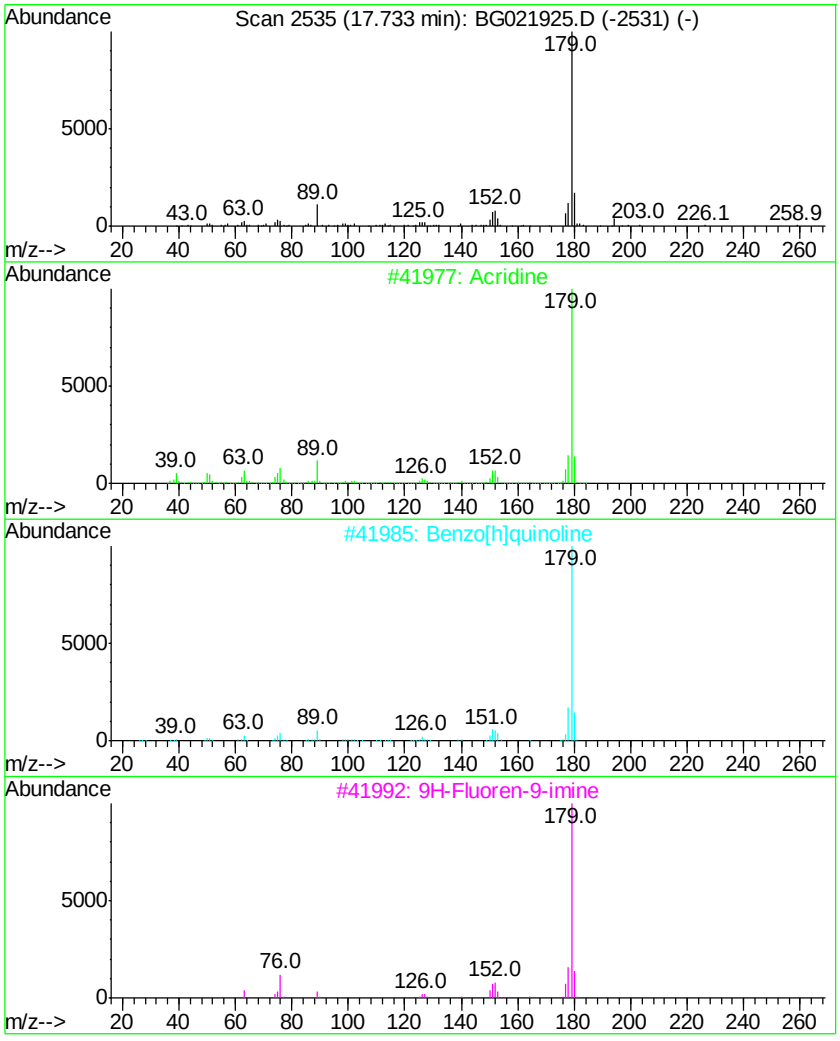
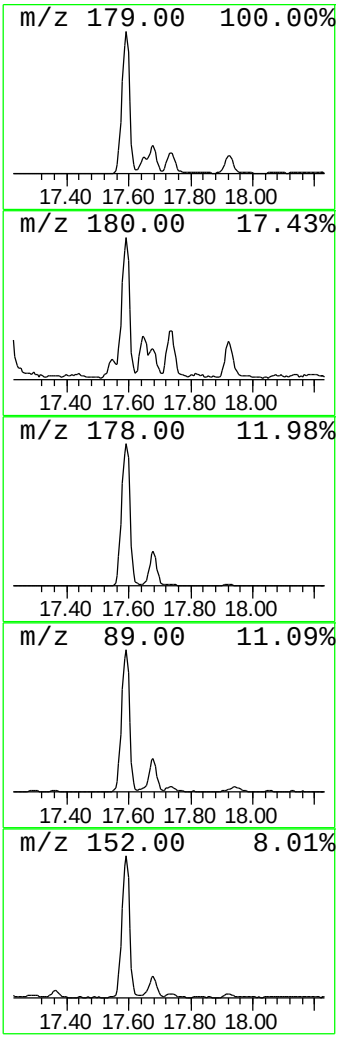
Peak Number 7 Acridine Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.73	4.09 ng/ul	189129	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	91
2	Benzo[h]quinoline	179	C13H9N	000230-27-3	90
3	9H-Fluoren-9-imine	179	C13H9N	004440-33-9	90
4	Phenanthridine	179	C13H9N	000229-87-8	87
5	Acridine	179	C13H9N	000260-94-6	87





Library Search Compound Report

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Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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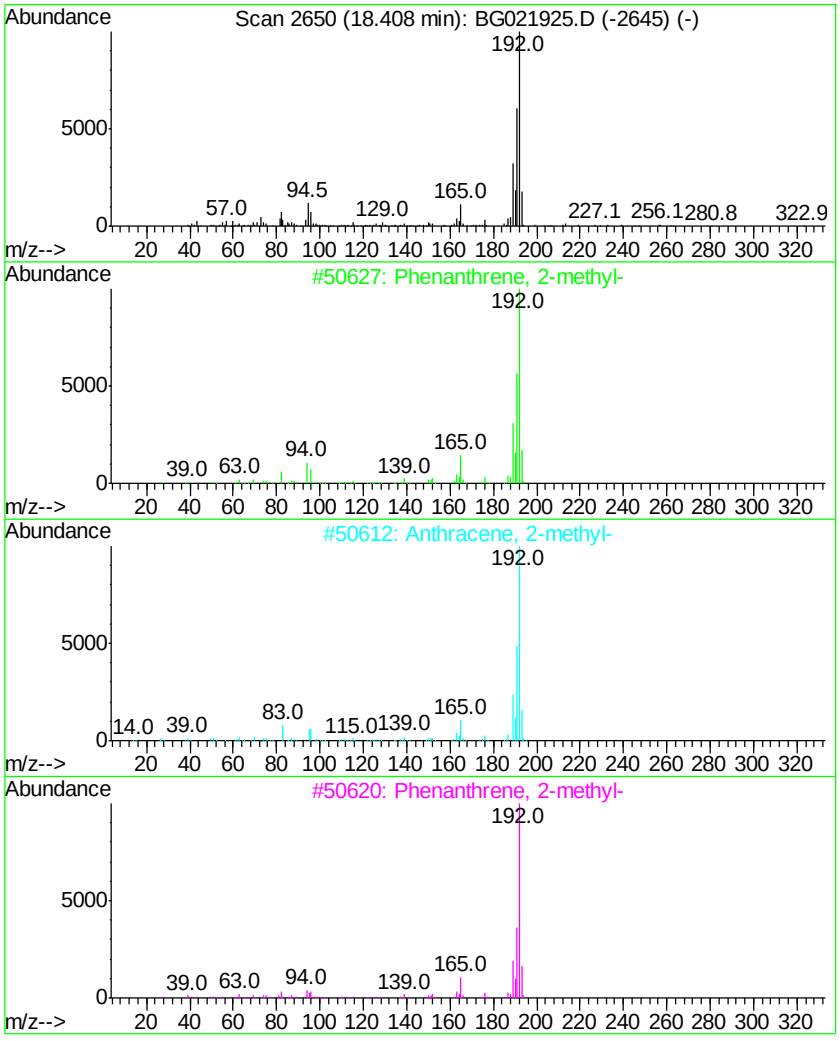
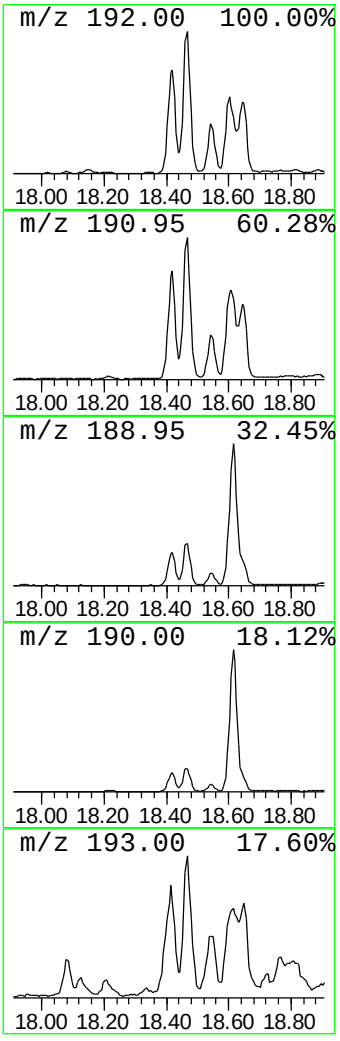
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	9.54 ng/ul	441906	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





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Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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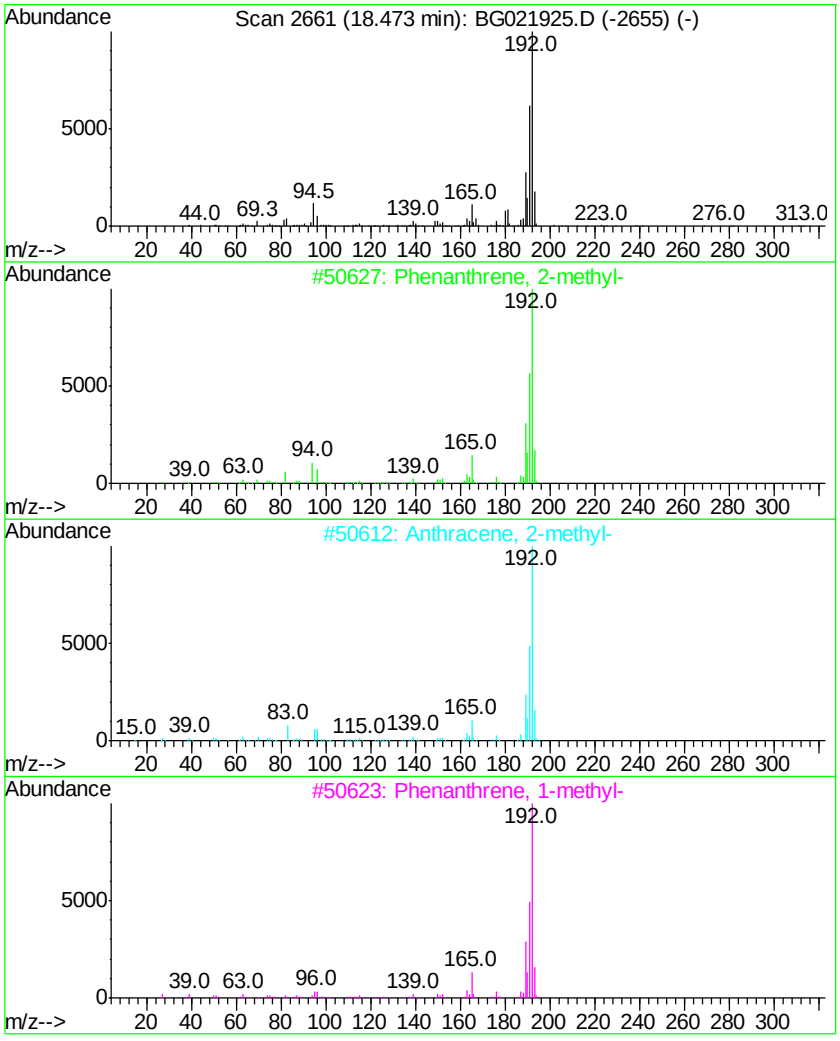
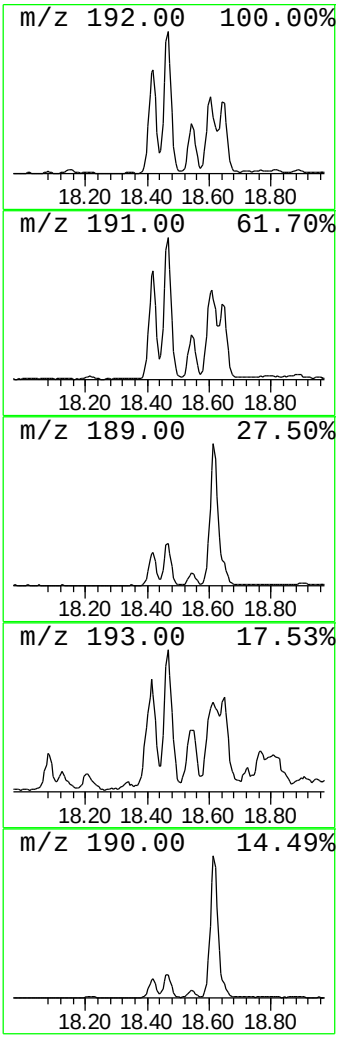
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.47	13.08 ng/ul	605351	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Library Search Compound Report

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Data File : BG021925.D
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Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.54	3.67 ng/ul	169782	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	89
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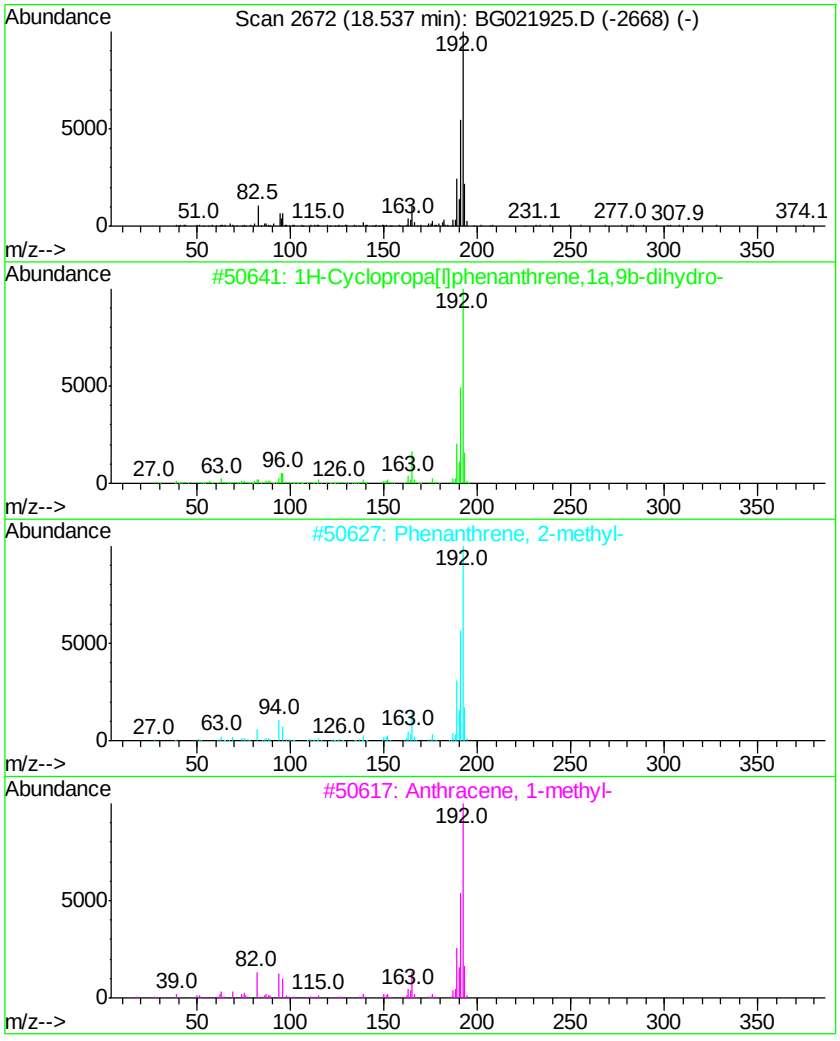
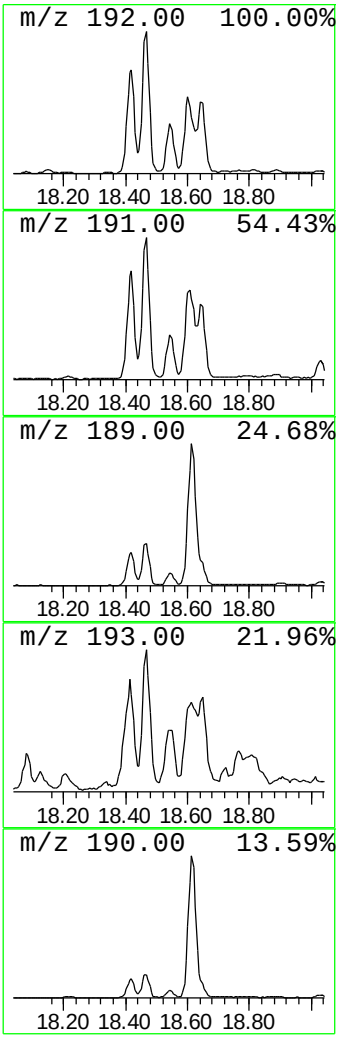
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81





Library Search Compound Report

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Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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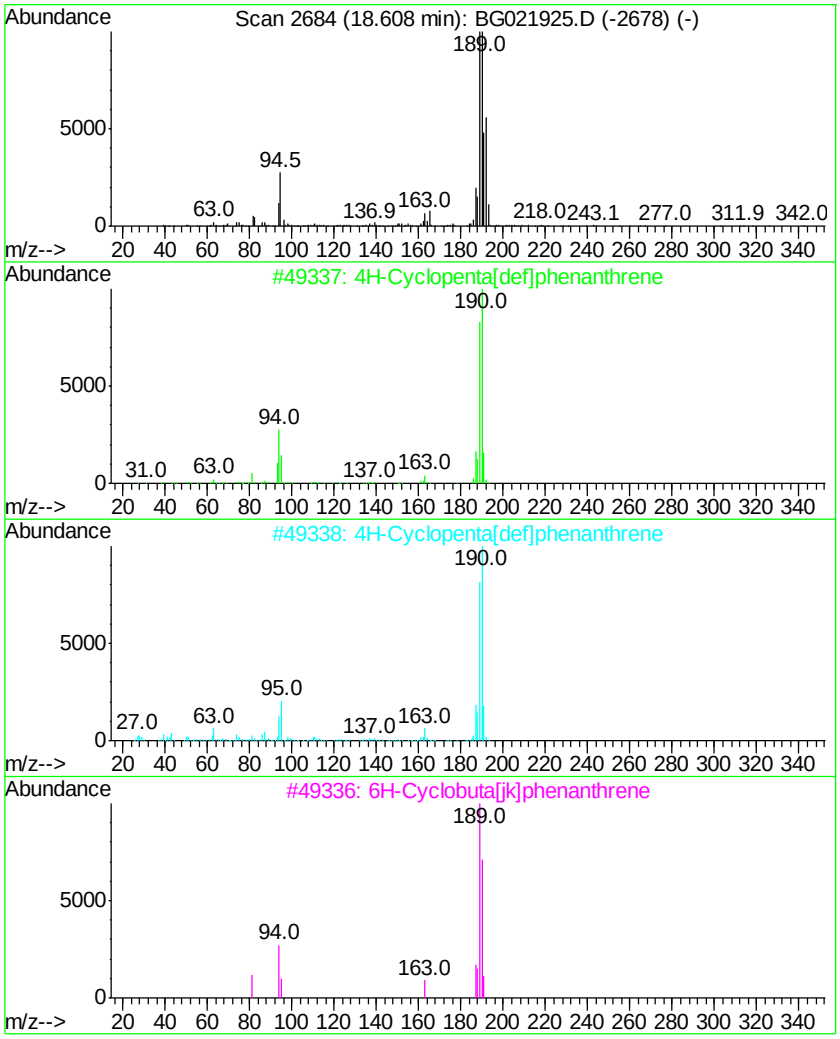
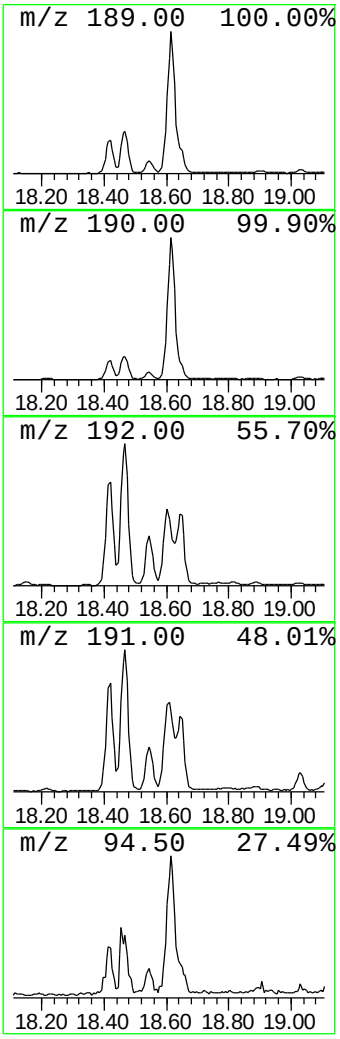
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.61	19.02 ng/ul	880431	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	47





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Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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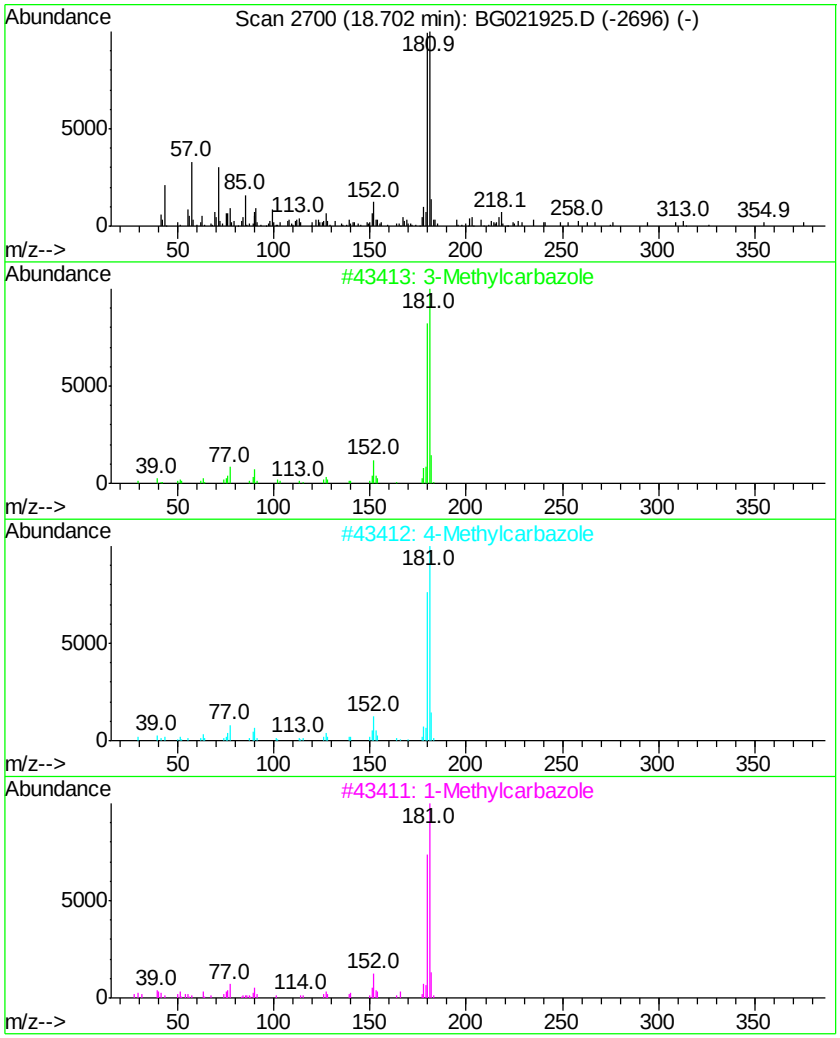
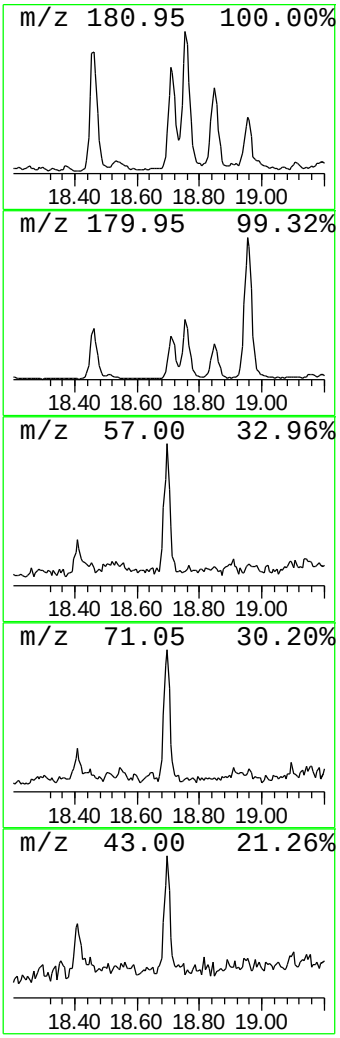
Peak Number 12 3-Methylcarbazole Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	2.33 ng/ul	107818	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	89
2	4-Methylcarbazole	181	C13H11N	003770-48-7	89
3	1-Methylcarbazole	181	C13H11N	006510-65-2	89
4	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	76
5	3-Methylcarbazole	181	C13H11N	004630-20-0	74





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Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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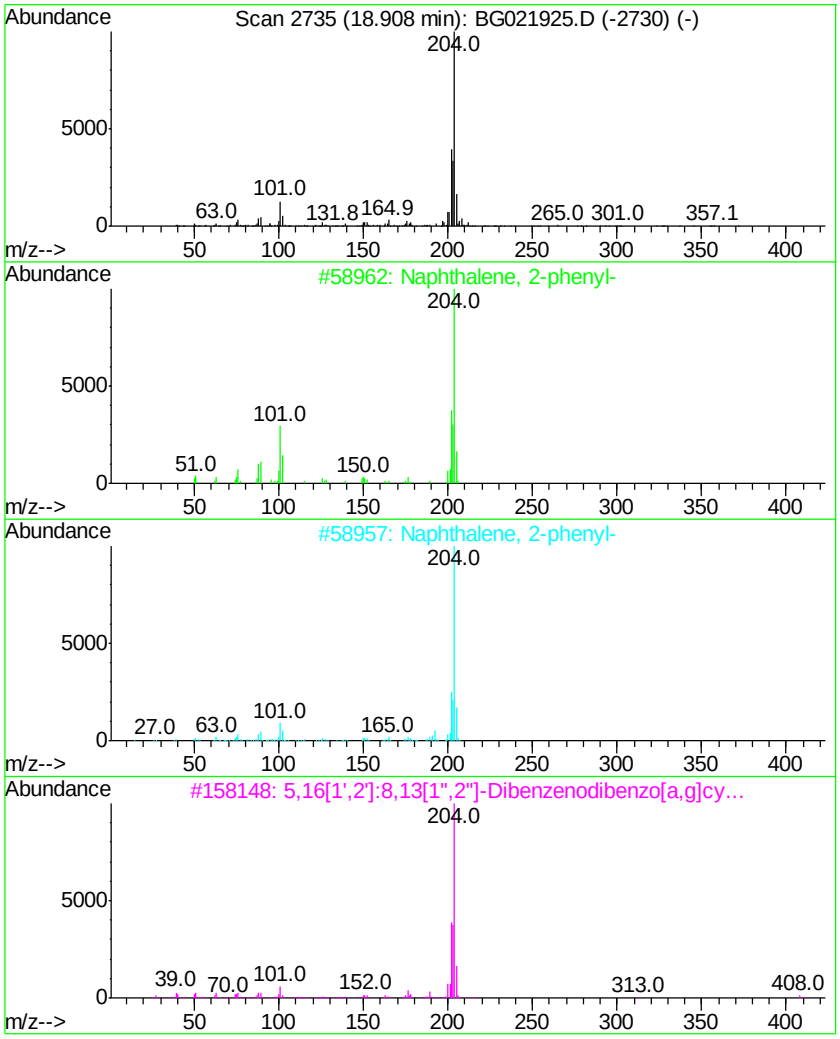
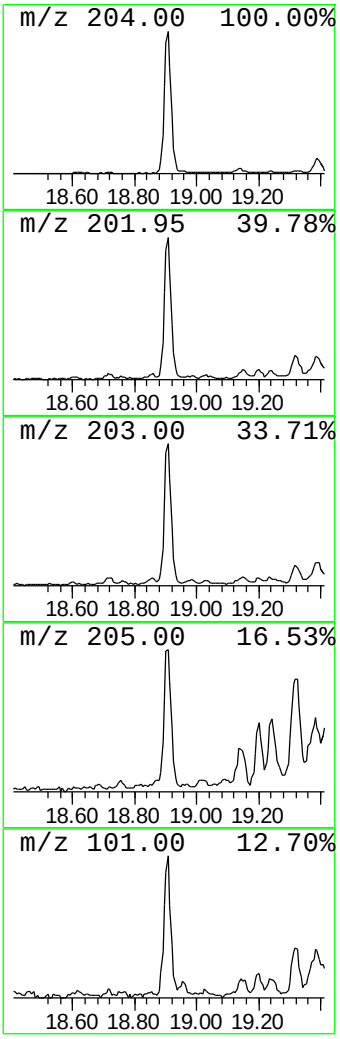
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.91	6.91 ng/ul	320057	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
5	2-Phenylnaphthalene	204	C16H12	035465-71-5	86





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Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

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Quant Title : SVOA CALIBRATION

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

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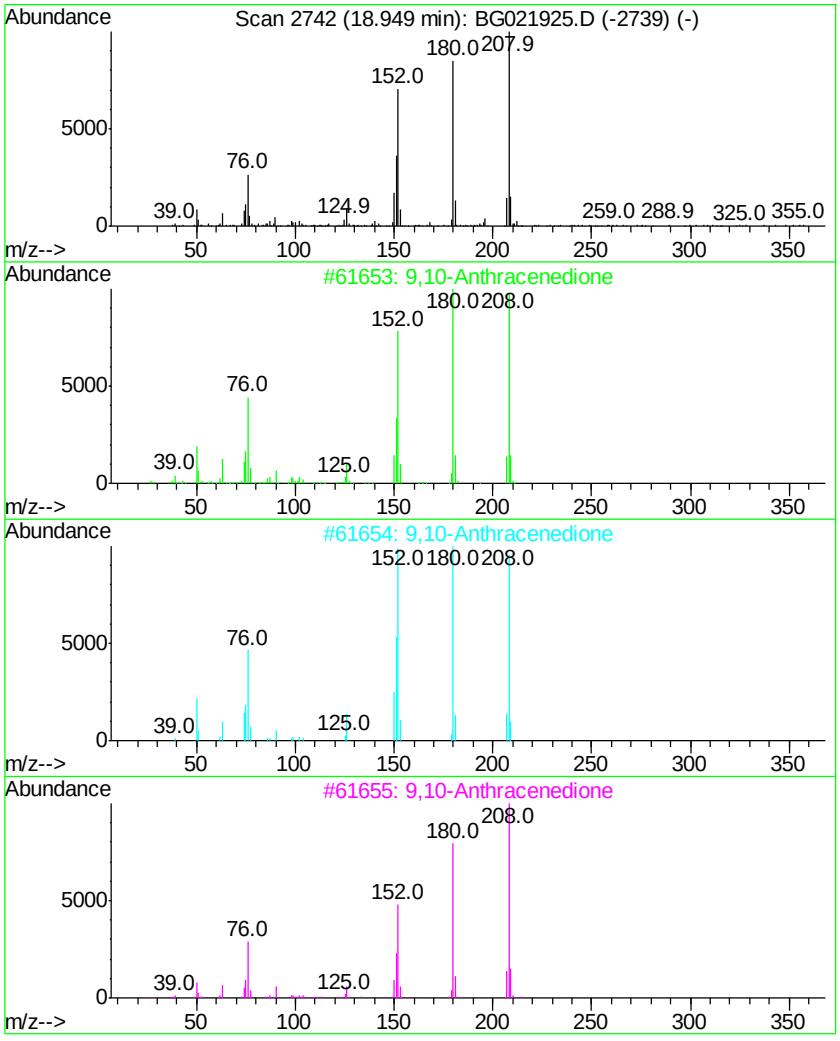
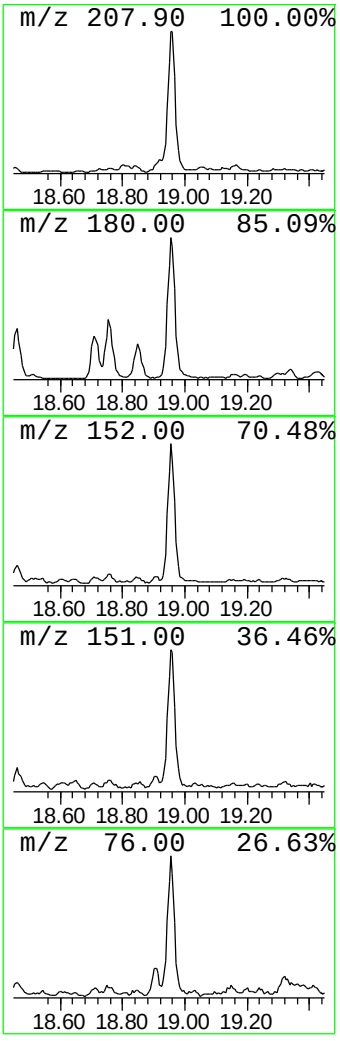
Peak Number 14 9,10-Anthracenedione Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	8.25 ng/ul	381772	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60





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Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

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Quant Title : SVOA CALIBRATION

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

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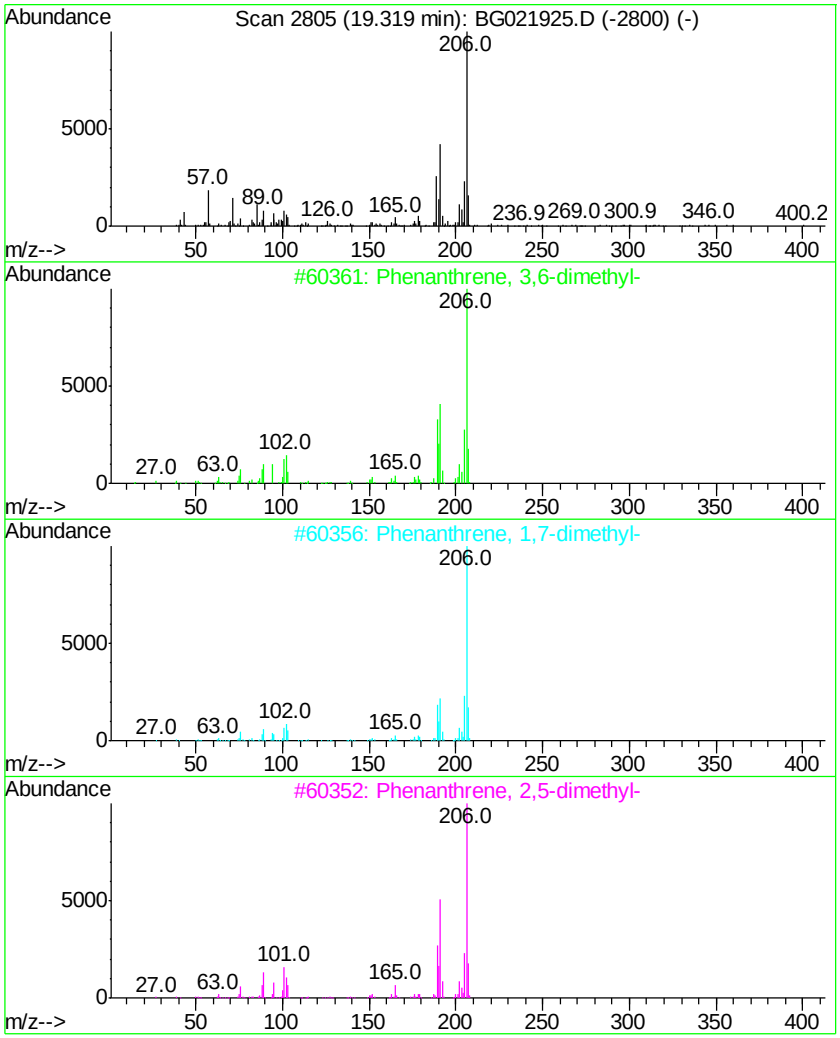
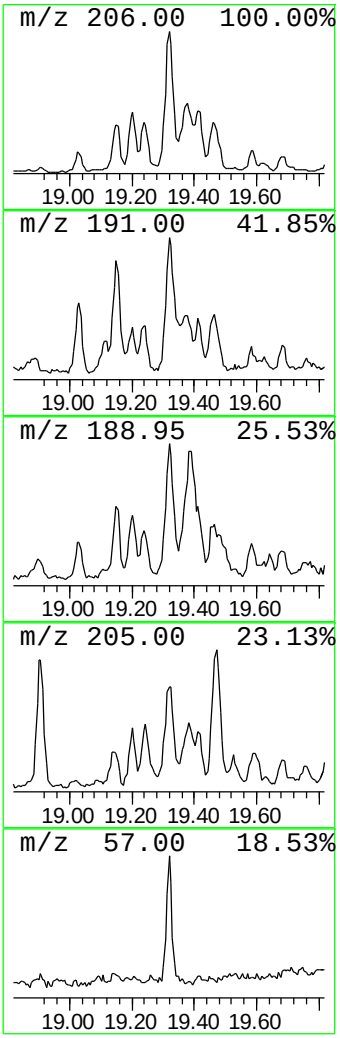
Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.32	7.12 ng/ul	329482	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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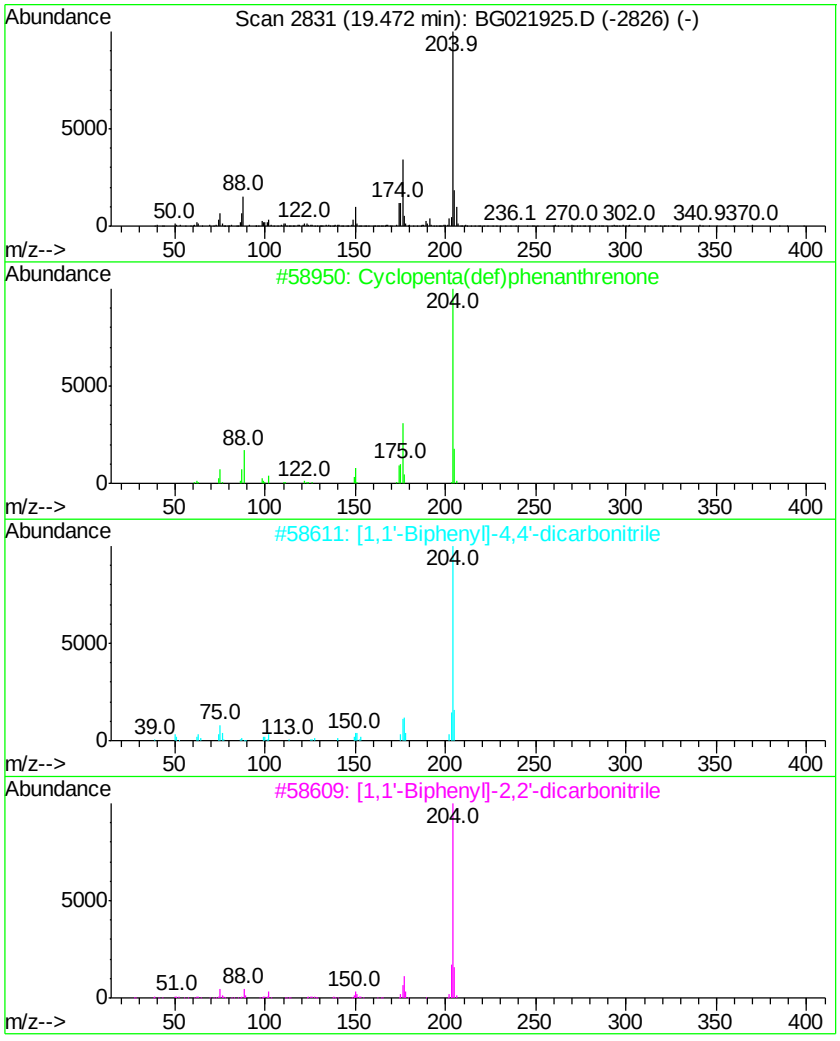
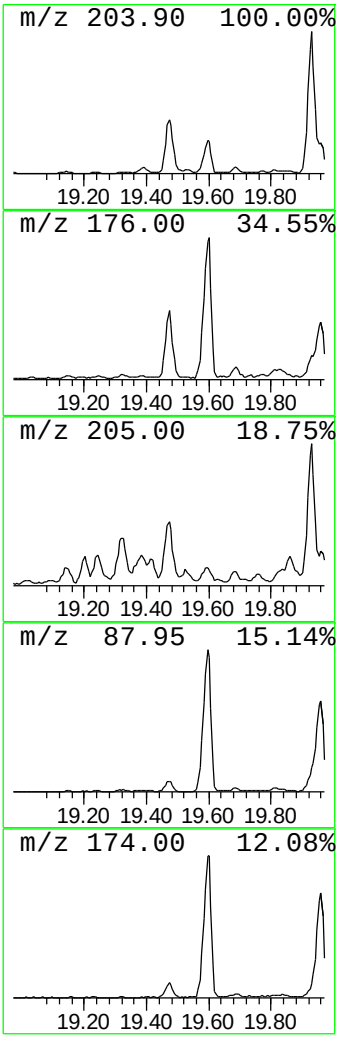
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.47	7.44 ng/ul	344265	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	49





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Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

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Quant Title : SVOA CALIBRATION

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

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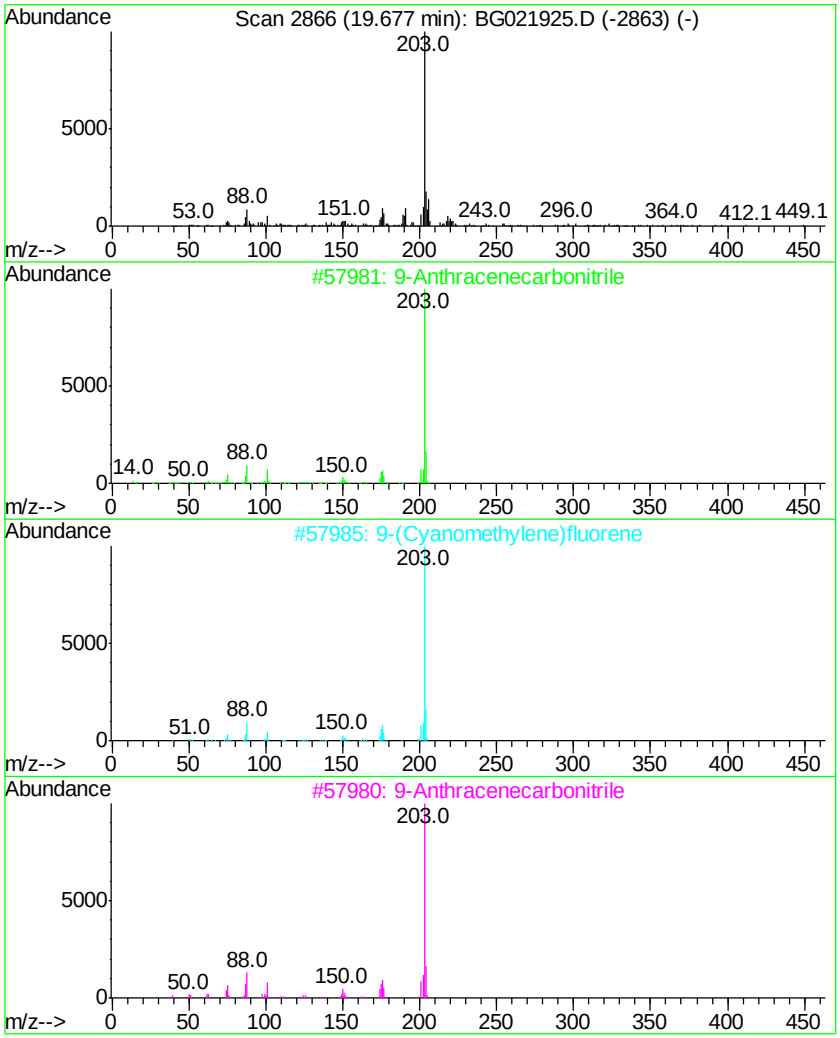
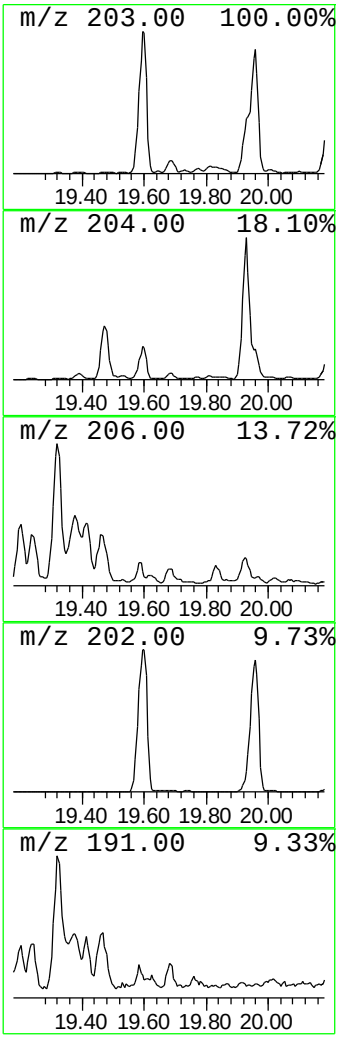
Peak Number 17 9-Anthracenecarbonitrile Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.68	4.06 ng/ul	187997	Phenanthrene-d10	17.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	90
2	9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	81
3	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	81
4	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	81
5	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	76





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Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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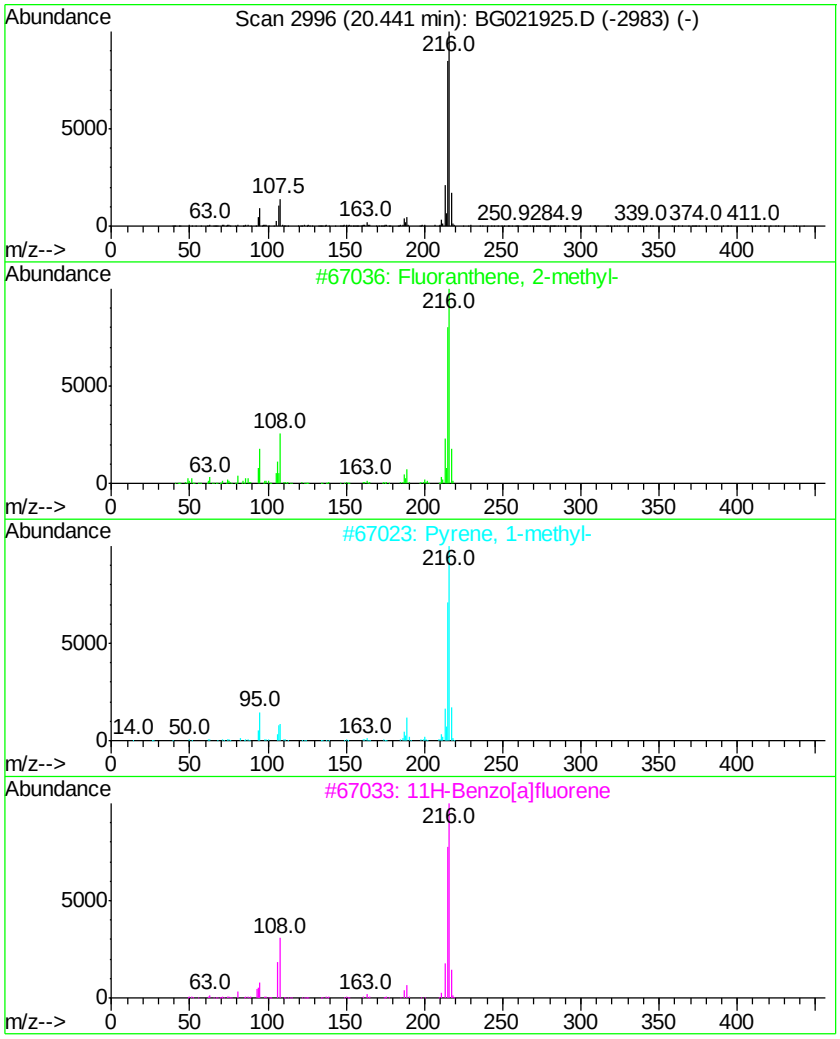
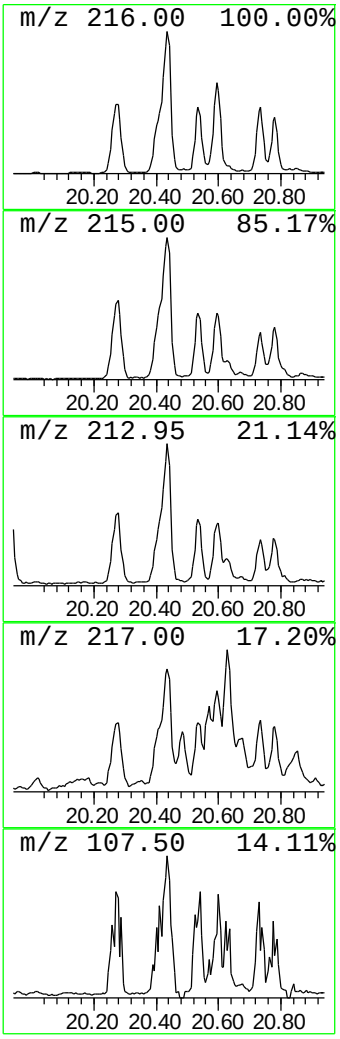
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.44	3.28 ng/ul	1176520	Chrysene-d12	21.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83





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Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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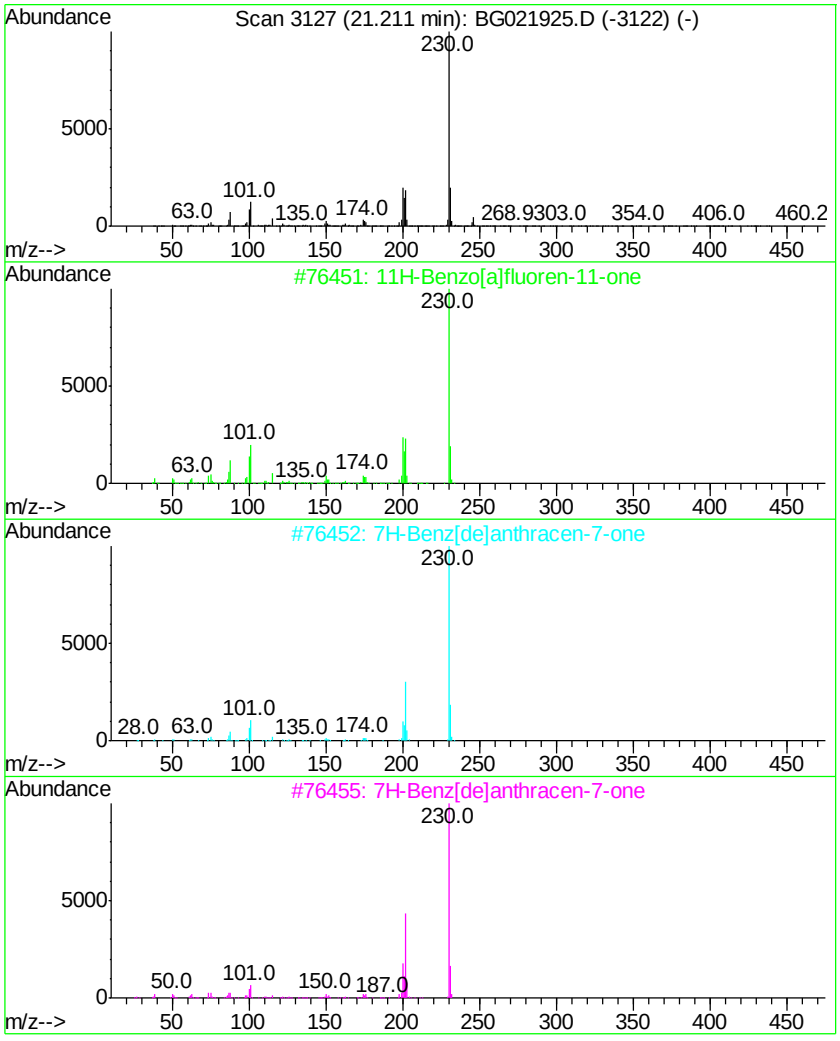
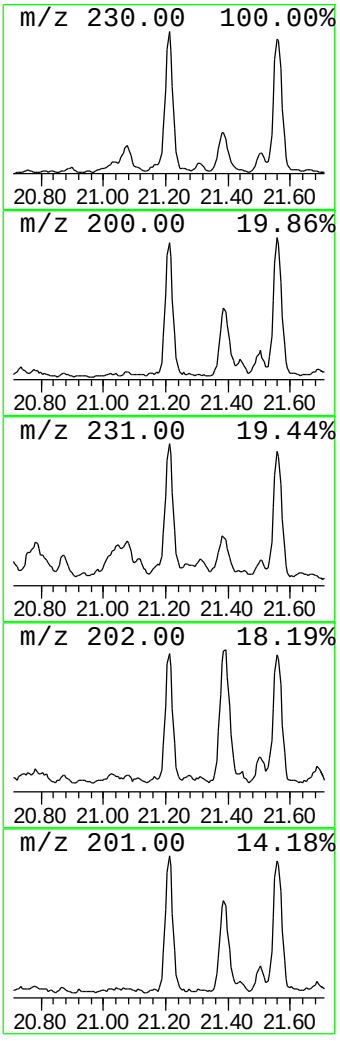
Peak Number 19 11H-Benzo[a]fluoren-11-one Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.21	2.11 ng/ul	757418	Chrysene-d12	21.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	93
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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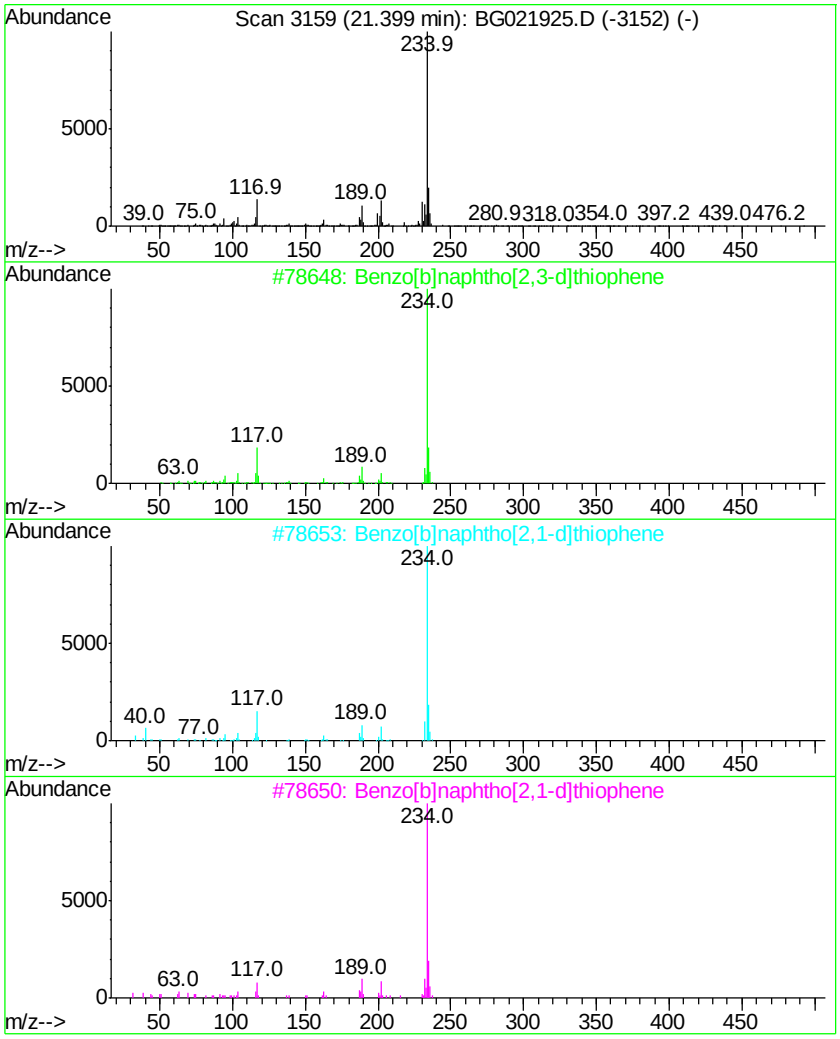
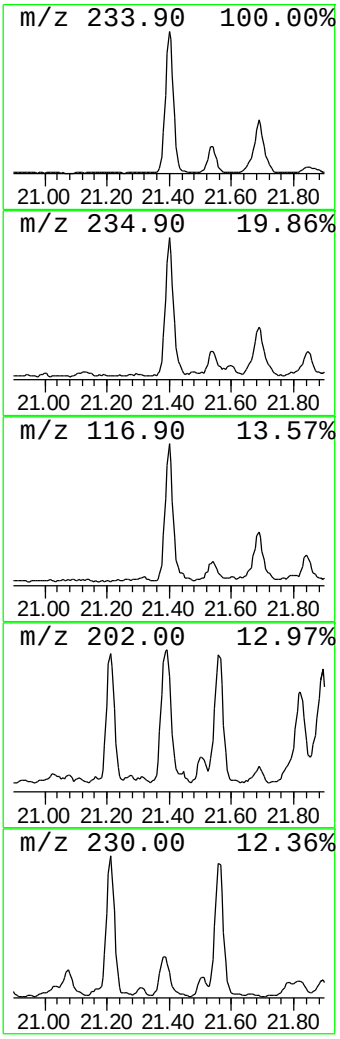
Peak Number 20 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.40	3.26 ng/ul	1167440	Chrysene-d12	21.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93





Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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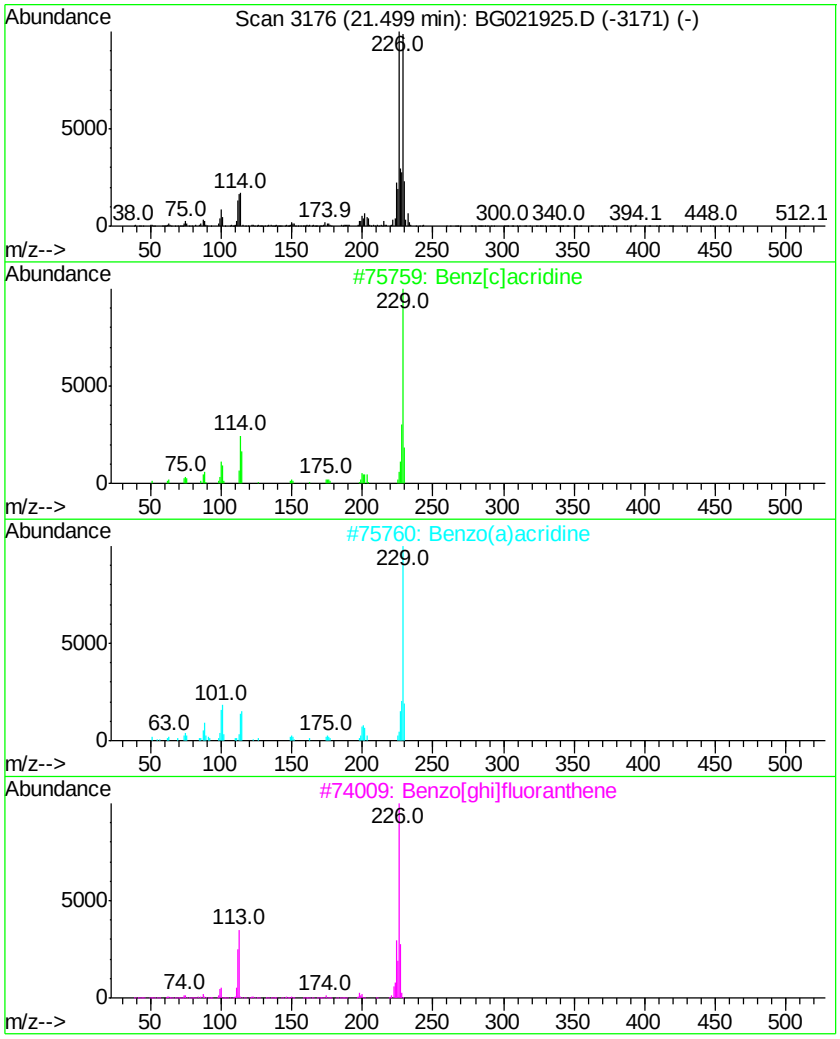
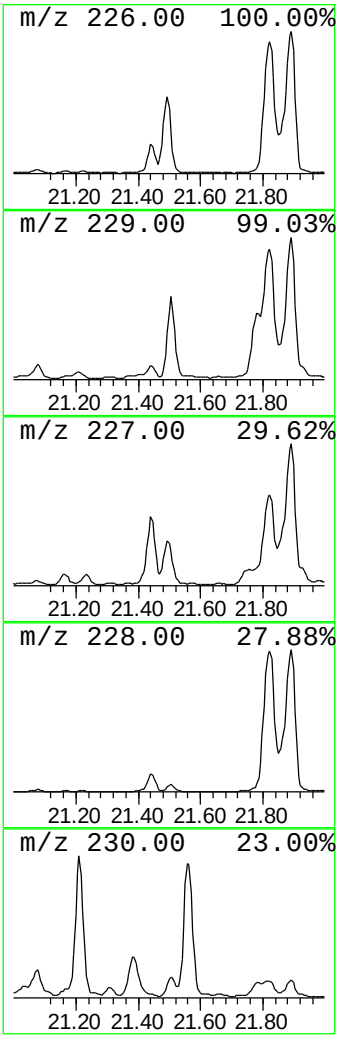
Peak Number 21 unknown-01 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.50	3.07 ng/ul	1100150	Chrysene-d12	21.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[c]acridine	229	C17H11N	000225-51-4	49
2	Benzo(a)acridine	229	C17H11N	000225-11-6	38
3	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	38
4	Benzo(a)acridine	229	C17H11N	000225-11-6	35
5	Benzene, 1,2,4-trichloro-5-(meth...	226	C7H5Cl3S	004163-78-4	35





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION

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

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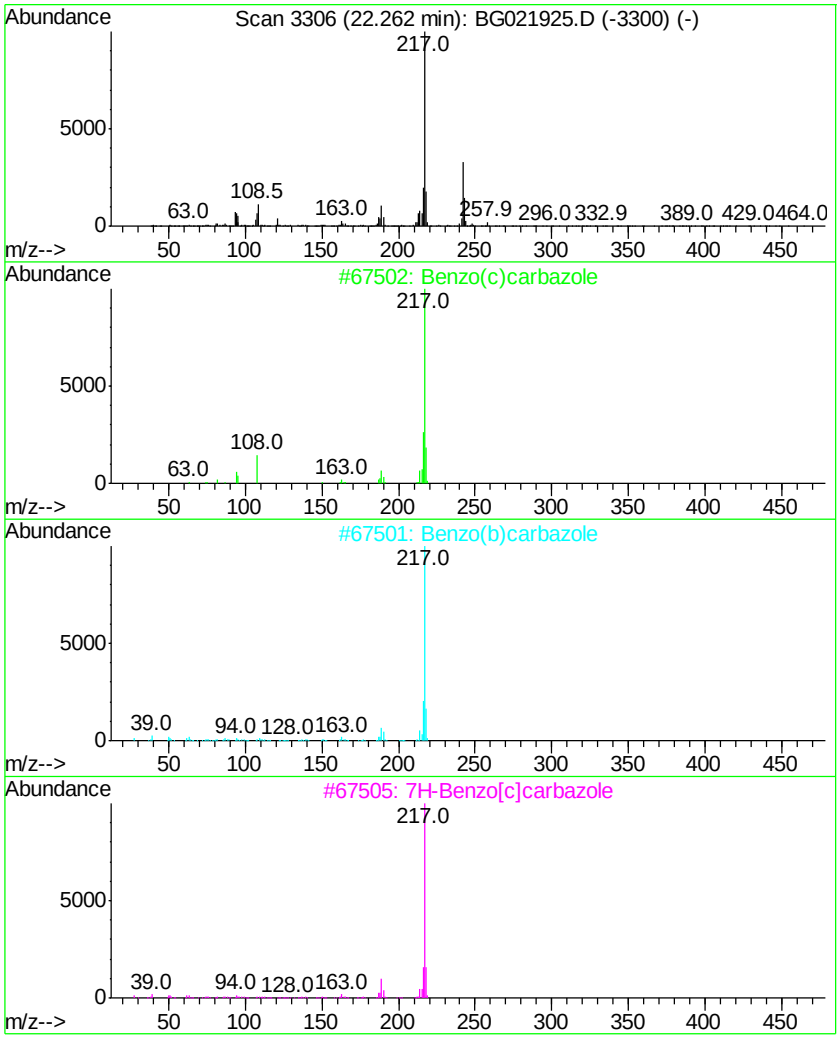
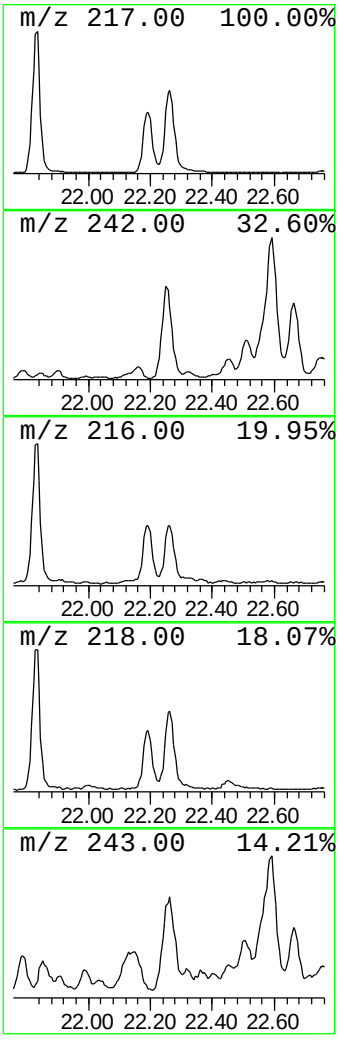
Peak Number 23 Benzo(c)carbazole Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.26	2.22 ng/ul	796271	Chrysene-d12	21.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(c)carbazole	217	C16H11N	034777-33-8	93
2	Benzo(b)carbazole	217	C16H11N	000243-28-7	64
3	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
4	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	64
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051616\
Data File : BG021925.D
Acq On : 17 May 2016 3:25
Operator : UM/SJ
Sample : H3095-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9XF8

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.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
Dibenzofuran, 4-m...	16.28	2.4	ng/ul	110405	4	17.54	925952	20.0
1(2H)-Acenaphthyl...	16.50	4.4	ng/ul	204718	4	17.54	925952	20.0
9H-Fluoren-9-one	17.20	7.4	ng/ul	340778	4	17.54	925952	20.0
(DEL) Alkane: Str...	17.27	4.7	ng/ul	215746	4	17.54	925952	20.0
Dibenzothiophene	17.36	5.2	ng/ul	239430	4	17.54	925952	20.0
Acridine	17.73	4.1	ng/ul	189129	4	17.54	925952	20.0
Phenanthrene, 2-m...	18.41	9.5	ng/ul	441906	4	17.54	925952	20.0
Anthracene, 2-met...	18.47	13.1	ng/ul	605351	4	17.54	925952	20.0
1H-Cyclopropa[l]p...	18.54	3.7	ng/ul	169782	4	17.54	925952	20.0
4H-Cyclopenta[def...	18.61	19.0	ng/ul	880431	4	17.54	925952	20.0
3-Methylcarbazole	18.70	2.3	ng/ul	107818	4	17.54	925952	20.0
Naphthalene, 2-ph...	18.91	6.9	ng/ul	320057	4	17.54	925952	20.0
9,10-Anthracenedione	18.95	8.3	ng/ul	381772	4	17.54	925952	20.0
Phenanthrene, 3,6...	19.32	7.1	ng/ul	329482	4	17.54	925952	20.0
Cyclopenta(def)ph...	19.47	7.4	ng/ul	344265	4	17.54	925952	20.0
9-Anthracenecarbo...	19.68	4.1	ng/ul	187997	4	17.54	925952	20.0
Fluoranthene, 2-m...	20.44	3.3	ng/ul	1176520	5	21.84	7164730	20.0
11H-Benzo[a]fluor...	21.21	2.1	ng/ul	757418	5	21.84	7164730	20.0
Benzo[b]naphtho[2...	21.40	3.3	ng/ul	1167440	5	21.84	7164730	20.0
unknown-01	21.50	3.1	ng/ul	1100150	5	21.84	7164730	20.0
Benzo(c)carbazole	22.26	2.2	ng/ul	796271	5	21.84	7164730	20.0