LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

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-BG070615.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	2.811	17	21	26	rBV2	89505	148687	2.26%	0.180%
2	2.887	29	34	48	rVB	2043562	2668230	40.55%	3.231%
3	6.782	687	697	709	rBV	200822	345611	5.25%	0.418%
4	6.947	719	725	732	rBV	140522	222911	3.39%	0.270%
5	7.141	751	758	766	rVB	196125	313479	4.76%	0.380%
6	7.605	827	837	845	rVB	457445	727597	11.06%	0.881%
7	8.310	948	957	965	rBV	251354	400594	6.09%	0.485%
8	8.422	971	976	982	rVV	43634	66125	1.01%	0.080%
9	8.757	1026	1033	1041	rVB	172555	288625	4.39%	0.349%
10	9.473	1149	1155	1163	rVV	158660	266615	4.05%	0.323%
11	10.008	1238	1246	1255	rVB	261283	421730	6.41%	0.511%
12	10.384	1300	1310	1315	rBV	690241	1160224	17.63%	1.405%
13	10.437	1315	1319	1326	rVV	84647	140637	2.14%	0.170%
14	10.525	1326	1334	1346	rVB2	164658	302639	4.60%	0.366%
15	12.059	1590	1595	1604	rVB	66167	109537	1.66%	0.133%
16	12.282	1627	1633	1638	rVB	61015	97427	1.48%	0.118%
17	13.428	1820	1828	1836	rBV5	29047	77347	1.18%	0.094%
18	13.574	1848	1853	1858	rBV2	62976	103198	1.57%	0.125%
19	13.674	1865	1870	1874	rVV	386703	524703	7.97%	0.635%
20	13.721	1874	1878	1883	rVB	138734	189637	2.88%	0.230%
21	13.945	1909	1916	1921	rBV	457824	749696	11.39%	0.908%
22	14.262	1961	1970	1976	rVV2	1029384	1617856	24.59%	1.959%
23	14.321	1976	1980	1988	rVV	275472	417653	6.35%	0.506%
24	14.462	1998	2004	2014	rBV3	173034	298870	4.54%	0.362%
25	14.661	2032	2038	2047	rVV	173523	310058	4.71%	0.375%
26	14.885	2068	2076	2080	rBV4	36421	70028	1.06%	0.085%
27	15.255	2133	2139	2144	rVV	621574	853642	12.97%	1.034%
28	15.308	2144	2148	2154	rVB	285624	413930	6.29%	0.501%
29	15.378	2155	2160	2163	rBV2	76924	102617	1.56%	0.124%
30	15.472	2173	2176	2181	rVB3	48077	66078	1.00%	0.080%
31	15.607	2194	2199	2208	rVB	100904	164548	2.50%	0.199%
32	15.754	2219	2224	2232	rVB	96967	197371	3.00%	0.239%
33	15.989	2259	2264	2275	rVB5	76112	167974	2.55%	0.203%
34	16.295	2310	2316	2317	rBV5	46634	72350	1.10%	0.088%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

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-BG070615.M
Title : SVOA CALIBRATION

35	16.318	2317	2320	2325	rVV4	70697	117977	1.79%	0.143%
36	16.524	2351	2355	2357	rBV2	58437	75487	1.15%	0.091%
37	16.665	2374	2379	2387	rVB	180313	274424	4.17%	0.332%
38	16.747	2388	2393	2394	rBV2	61704	80031	1.22%	0.097%
39	16.829	2403	2407	2416	rVB	179123	295822	4.50%	0.358%
40	17.012	2432	2438	2441	rBV2	1229552	1757916	26.72%	2.128%
41	17.053	2441	2445	2450	rVV	2922318	4320715	65.67%	5.231%
42	17.111	2450	2455	2458	rVV2	667272	1055927	16.05%	1.279%
43	17.141	2458	2460	2466	rVB	681874	865461	13.15%	1.048%
44	17.200	2466	2470	2477	rBV2	85731	137180	2.09%	0.166%
45	17.388	2497	2502	2503	rBV	72841	99871	1.52%	0.121%
46	17.417	2503	2507	2511	rVB	320744	420619	6.39%	0.509%
47	17.535	2523	2527	2531	rVB3	95246	130293	1.98%	0.158%
48	17.593	2533	2537	2547	rVB4	86733	161339	2.45%	0.195%
49	17.734	2557	2561	2568	rVB2	46422	80643	1.23%	0.098%
50	17.887	2582	2587	2591	rVV	384539	592169	9.00%	0.717%
51	17.934	2591	2595	2602	rVV	657064	990558	15.06%	1.199%
52	18.016	2602	2609	2614	rVV3	205195	370923	5.64%	0.449%
53	18.081	2614	2620	2624	rVV2	645720	1123417	17.07%	1.360%
54	18.122	2624	2627	2633	rVB	281642	393610	5.98%	0.477%
55	18.234	2642	2646	2650	rVB3	61607	91296	1.39%	0.111%
56	18.392	2670	2673	2677	rVV	325208	445748	6.77%	0.540%
57	18.433	2677	2680	2686	rVB	296764	405131	6.16%	0.491%
58	18.645	2713	2716	2720	rVB2	94068	103848	1.58%	0.126%
59	18.692	2722	2724	2727	rVV2	89775	98703	1.50%	0.120%
60	18.727	2728	2730	2735	rVB	84871	105765	1.61%	0.128%
61	18.815	2740	2745	2750	rBV	250922	428427	6.51%	0.519%
62	18.880	2751	2756	2759	rBV4	103810	189193	2.88%	0.229%
63	18.956	2764	2769	2777	rBV	272587	496888	7.55%	0.602%
64	19.086	2785	2791	2796	rVB	4708912	6579359	100.00%	7.966%
65	19.227	2811	2815	2819	rVB2	103056	165695	2.52%	0.201%
66	19.321	2829	2831	2835	rVB	117120	139752	2.12%	0.169%
67	19.421	2842	2848	2849	rBV2	1413092	1982101	30.13%	2.400%
68	19.450	2849	2853	2860	rVV	4252722	6055046	92.03%	7.331%
69	19.515	2861	2864	2871	rVB2	203255	341914	5.20%	0.414%
70	19.626	2879	2883	2888	rBV	236935	332439	5.05%	0.403%
71	19.685	2889	2893	2898	rVB	241534	335615	5.10%	0.406%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

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-BG070615.M
Title : SVOA CALIBRATION

72	19.773	2902	2908	2914	rBV3	322699	870683	13.23%	1.054%
73	19.908	2927	2931	2933	rBV4	224491	335899	5.11%	0.407%
74	19.943	2933	2937	2941	rVB2	557756	821548	12.49%	0.995%
75	19.990	2942	2945	2949	rBV5	94347	110581	1.68%	0.134%
76	20.043	2950	2954	2958	rBV	368496	475835	7.23%	0.576%
77	20.102	2958	2964	2968	rBV2	486857	779850	11.85%	0.944%
78	20.243	2984	2988	2991	rVB	247712	296078	4.50%	0.358%
79	20.284	2992	2995	2999	rVB2	255164	343001	5.21%	0.415%
80	20.502	3029	3032	3034	rBV3	155687	173312	2.63%	0.210%
81	20.690	3060	3064	3071	rVB	552059	748334	11.37%	0.906%
82	20.854	3087	3092	3096	rBV2	375643	667497	10.15%	0.808%
83	20.895	3096	3099	3102	rVV	394635	465025	7.07%	0.563%
84	20.936	3102	3106	3111	rVV2	487828	926586	14.08%	1.122%
85	20.989	3111	3115	3121	rVB	559821	789688	12.00%	0.956%
86	21.201	3146	3151	3156	rBV3	3170052	5934359	90.20%	7.185%
87	21.248	3156	3159	3166	rVB	2396285	3177385	48.29%	3.847%
88	21.365	3176	3179	3184	rBV	346394	512093	7.78%	0.620%
89	21.524	3202	3206	3211	rVB2	327274	467634	7.11%	0.566%
90	21.759	3243	3246	3249	rVB	363611	450928	6.85%	0.546%
91	21.806	3251	3254	3259	rBV2	261056	348704	5.30%	0.422%
92	22.775	3412	3419	3424	rBV2	2003759	4770662	72.51%	5.776%
93	22.940	3443	3447	3453	rVB	354032	575197	8.74%	0.696%
94	23.245	3494	3499	3505	rBV	1098965	2180957	33.15%	2.641%
95	23.298	3505	3508	3511	rVV2	471065	774513	11.77%	0.938%
96	23.345	3511	3516	3523	rVB	1777480	3165972	48.12%	3.833%
97	23.439	3526	3532	3537	rVV	1074211	2156919	32.78%	2.612%
98	23.492	3537	3541	3550	rVB2	523976	978799	14.88%	1.185%
99	25.701	3909	3917	3928	rVB2	818435	2372745	36.06%	2.873%
100	26.395	4028	4035	4045	rVB2	418152	1200156	18.24%	1.453%

Sum of corrected areas: 82590466

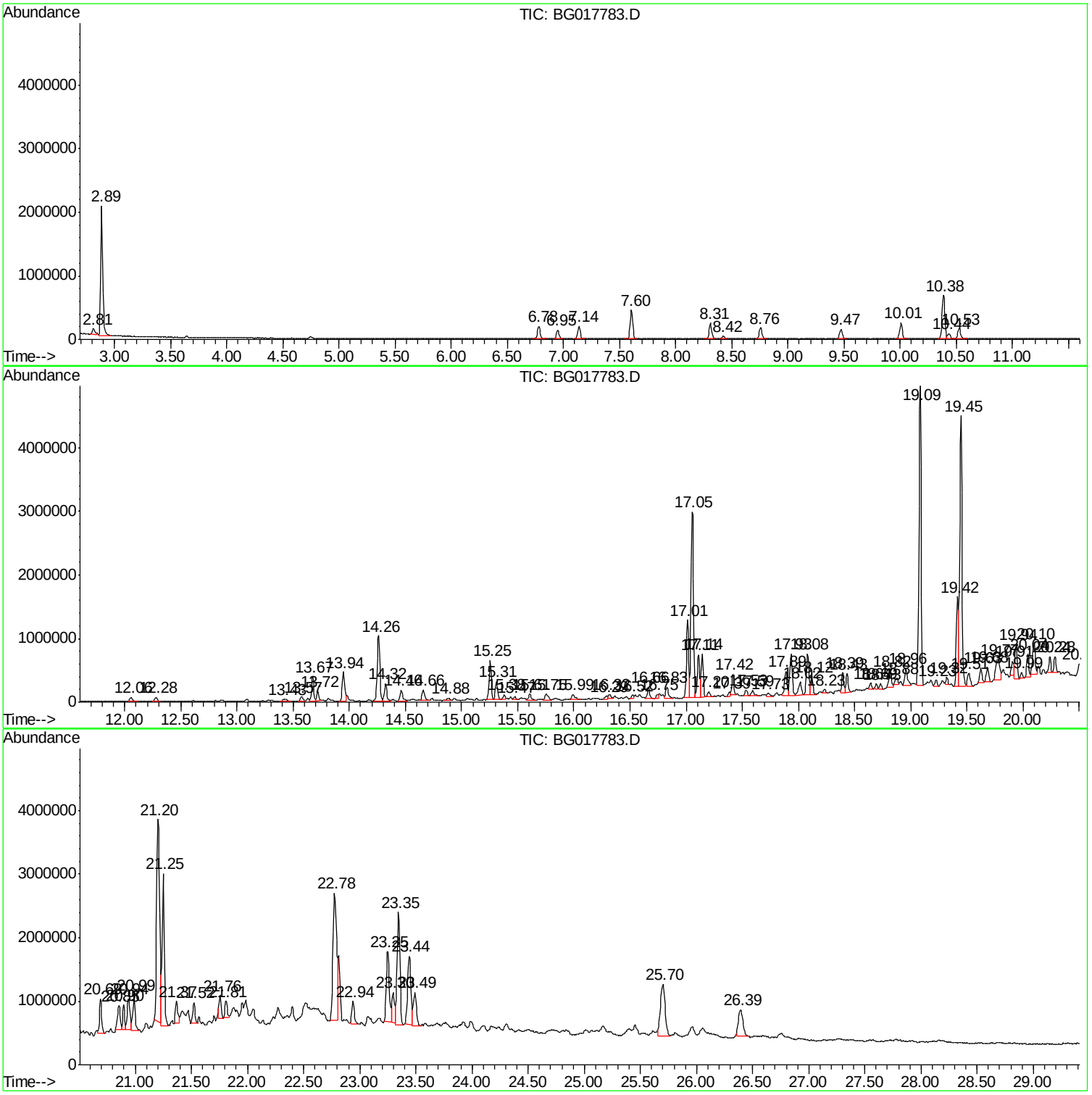
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

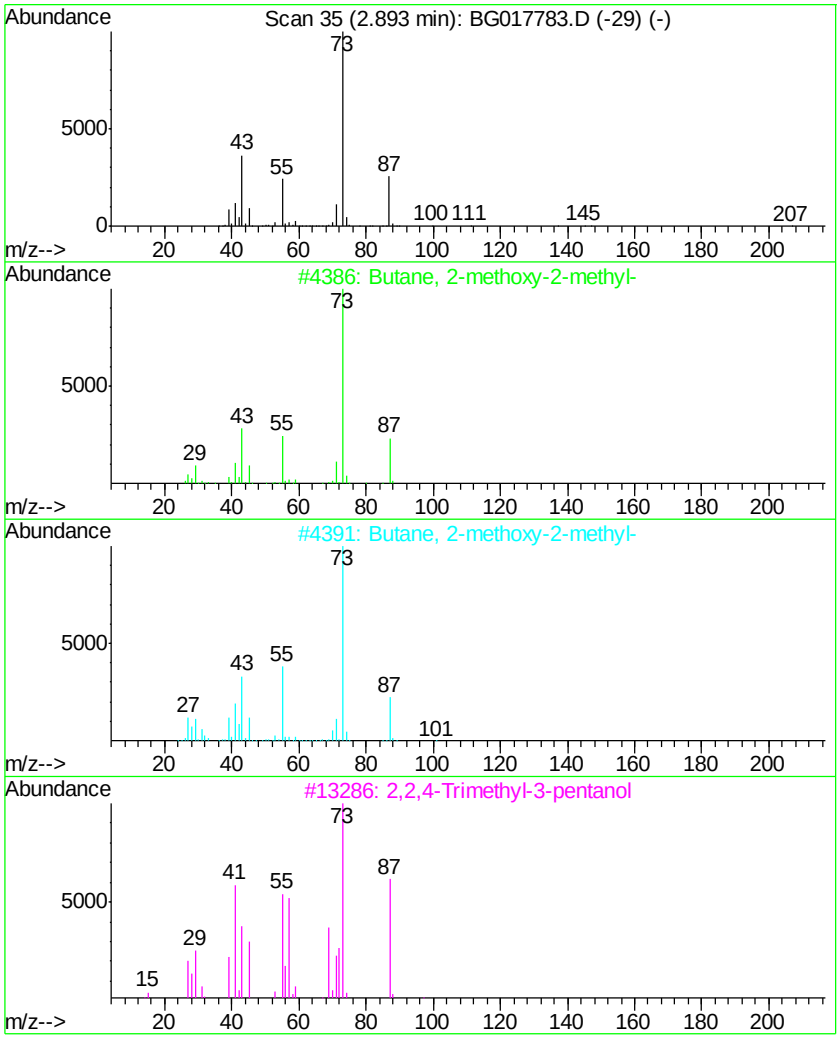
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

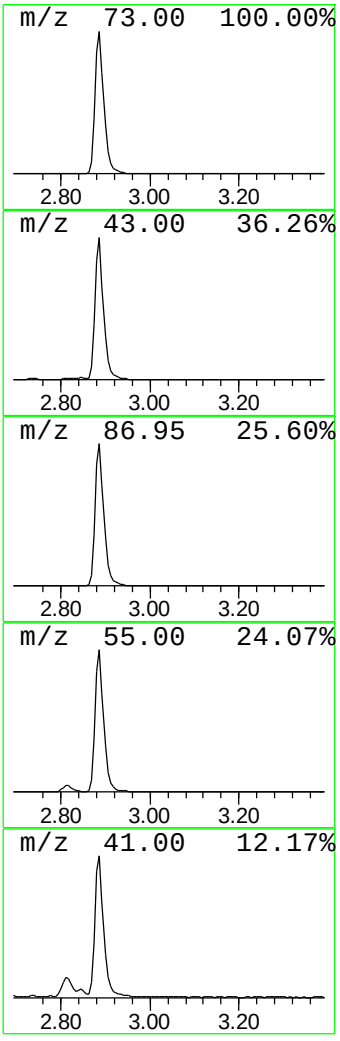
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.89	73.34 ng/ul	2668230	1,4-Dichlorobenzene-d4	7.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	56
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	50
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
5	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	25





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

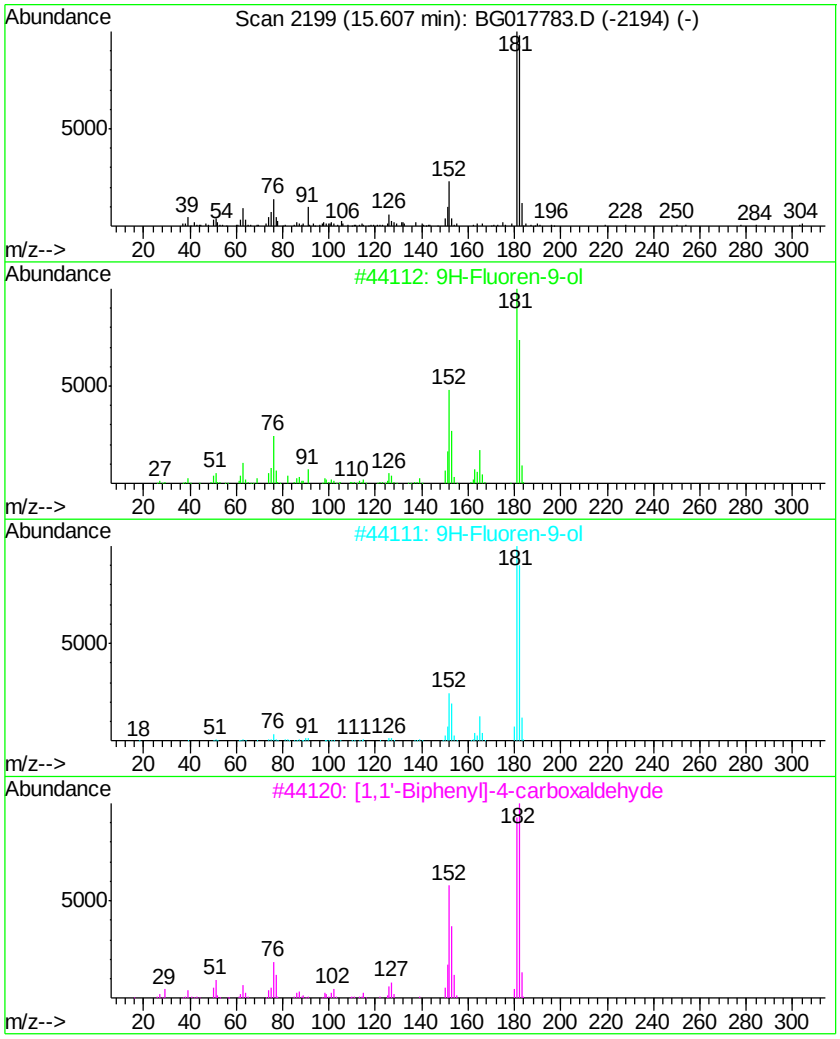
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

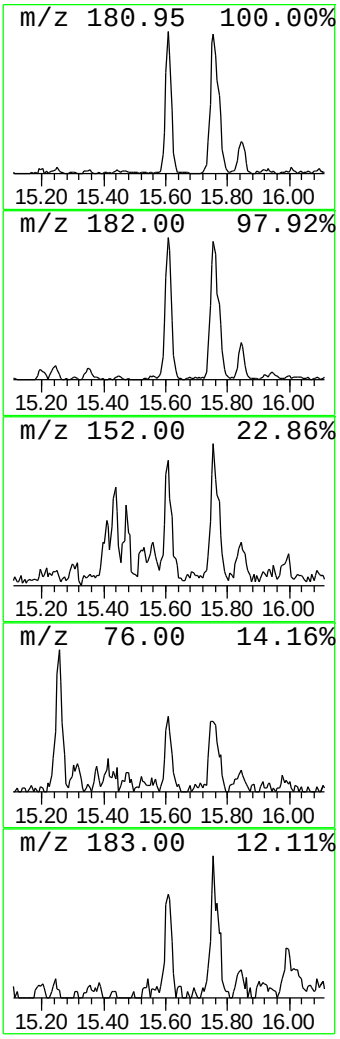
****

Peak Number 3 9H-Fluoren-9-ol Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.61	2.03 ng/ul	164548	Acenaphthene-d10	14.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	91
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

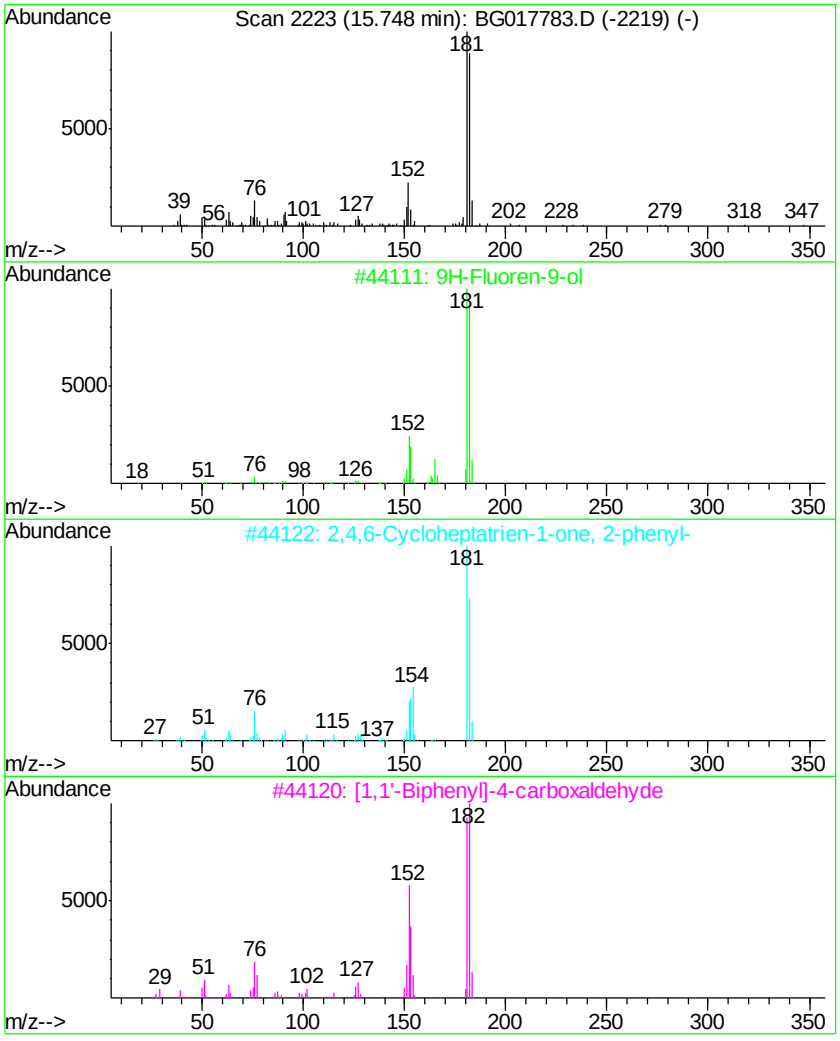
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

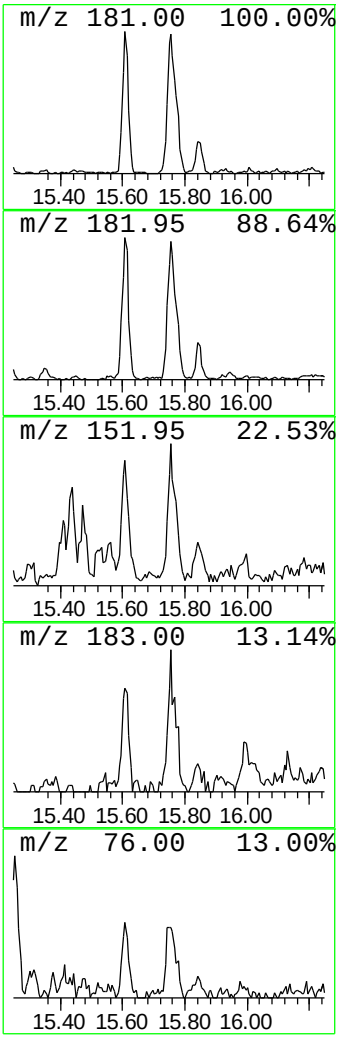
****

Peak Number 4 2,4,6-Cycloheptatrien-1-one... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.75	2.25 ng/ul	197371	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

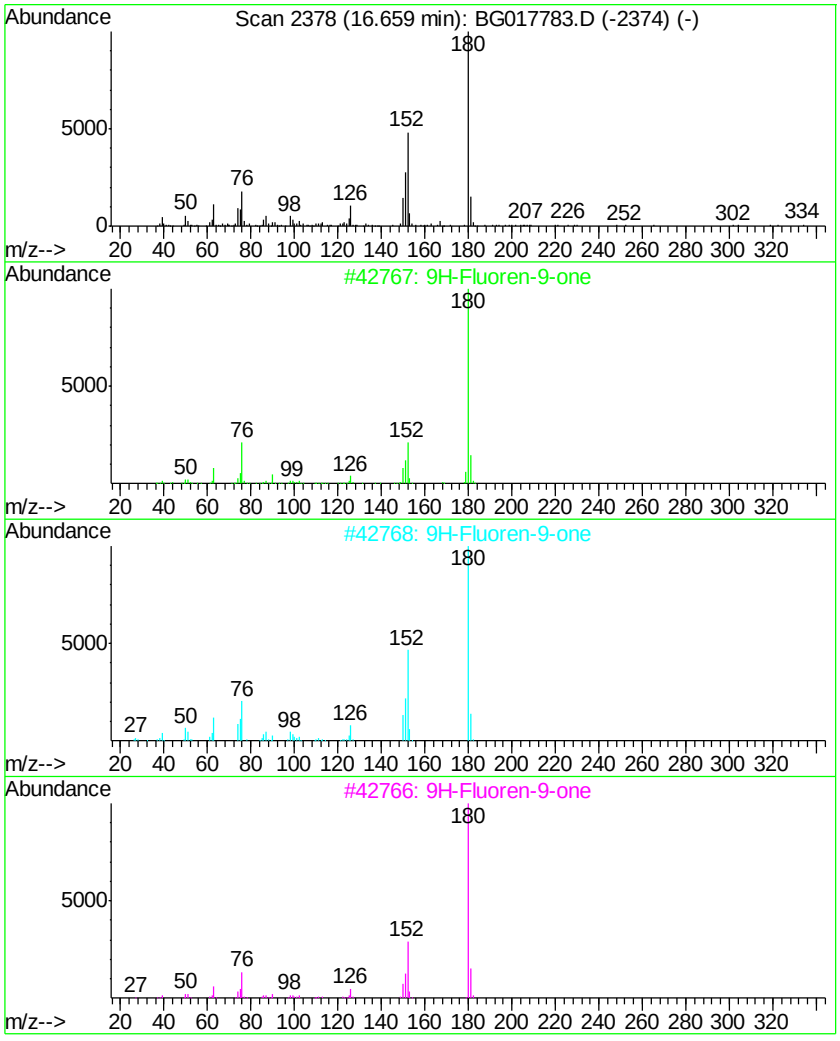
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

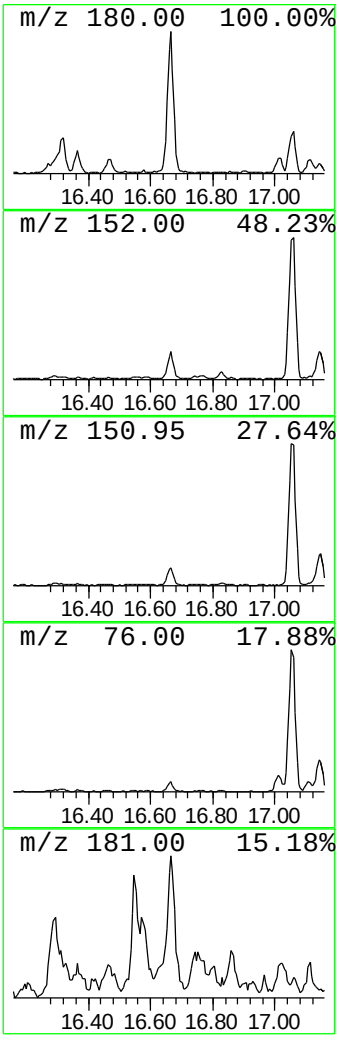
****

Peak Number 5 Benzo[c]cinnoline Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.66	3.12 ng/ul	274424	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

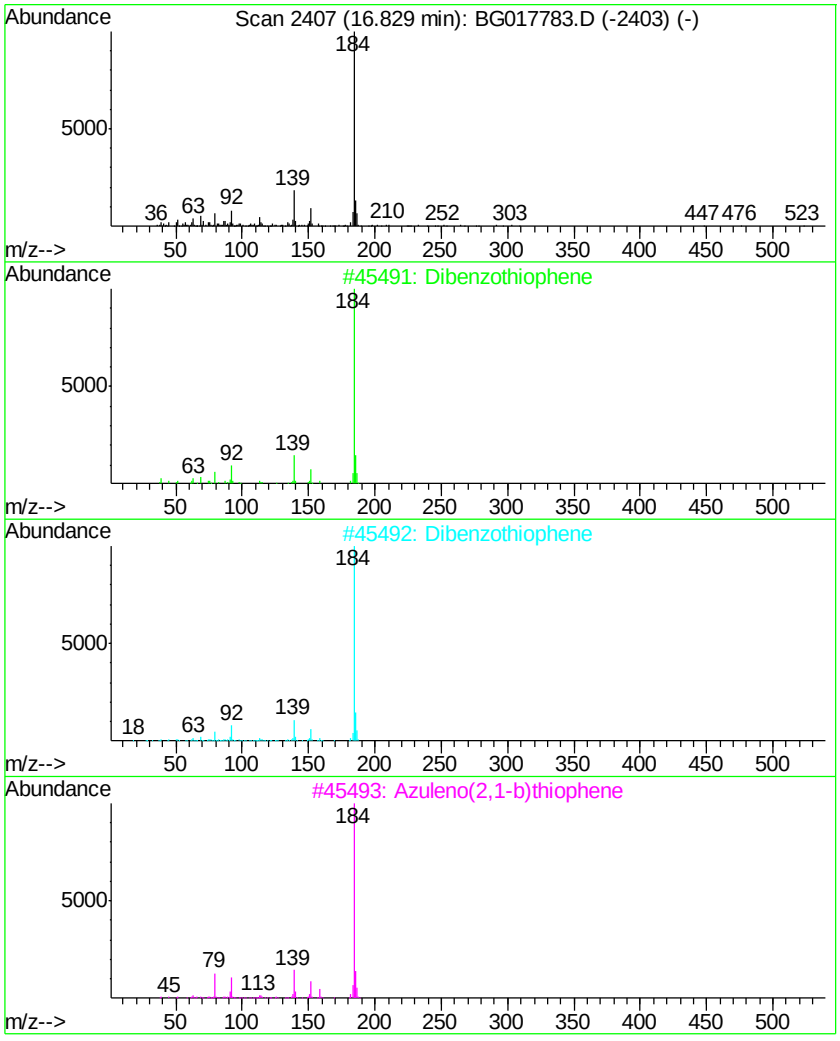
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

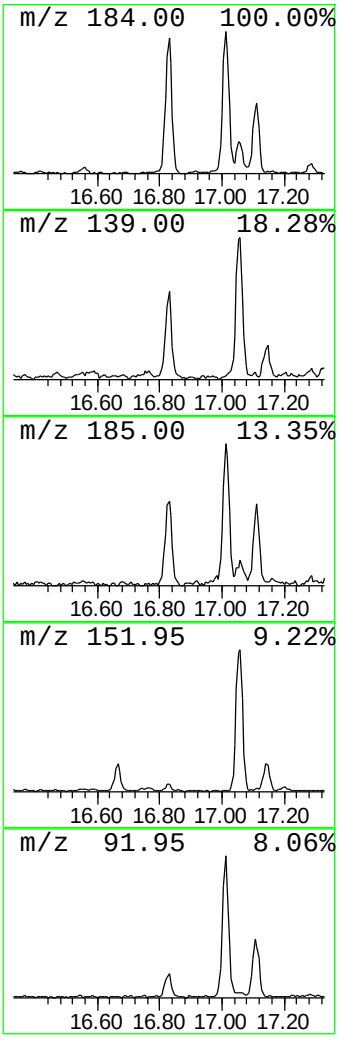
****

Peak Number 6 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	3.37 ng/ul	295822	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	91
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Dibenzothiophene	184	C12H8S	000132-65-0	90
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	86





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Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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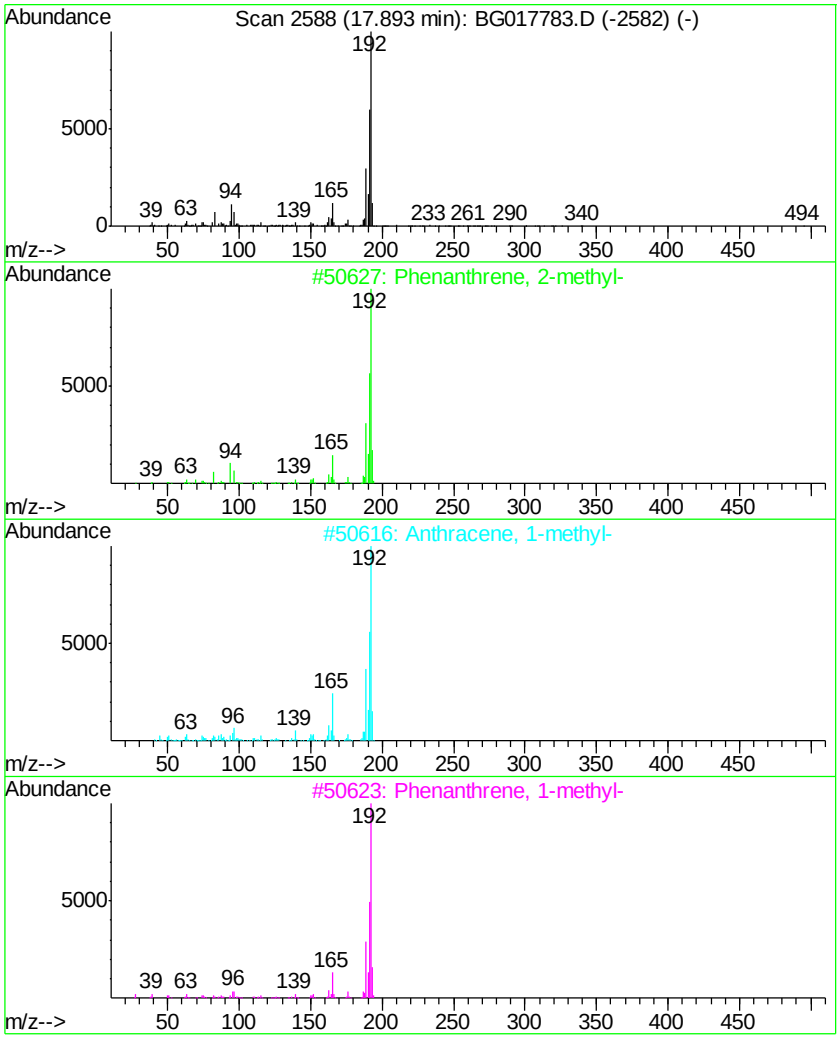
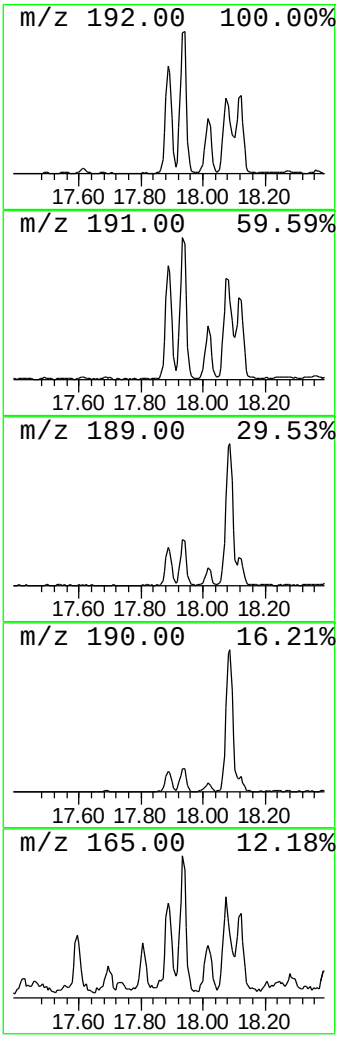
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.89	6.74 ng/ul	592169	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





Library Search Compound Report

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Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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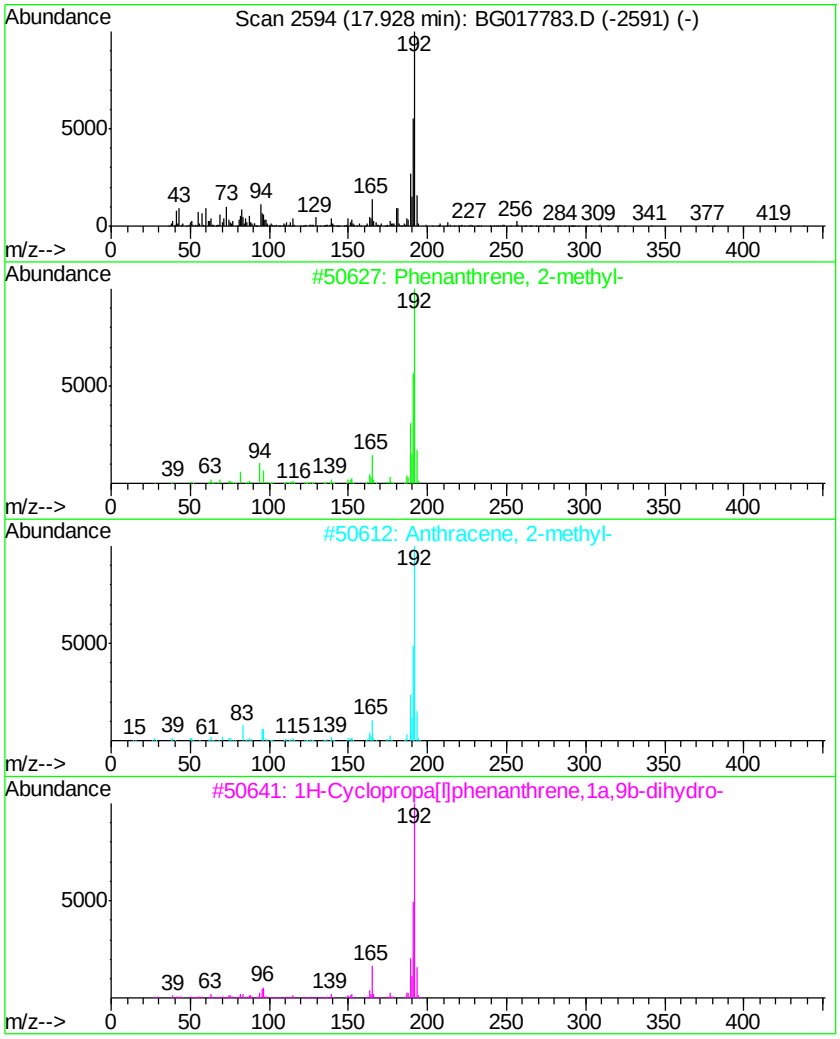
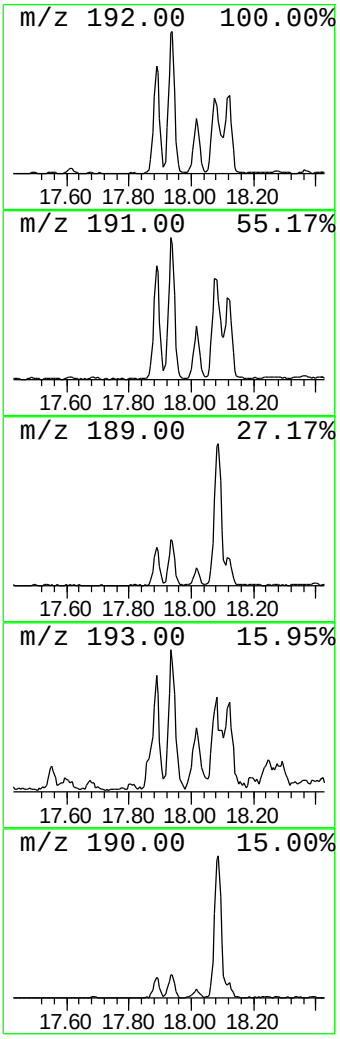
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.93	11.27 ng/ul	990558	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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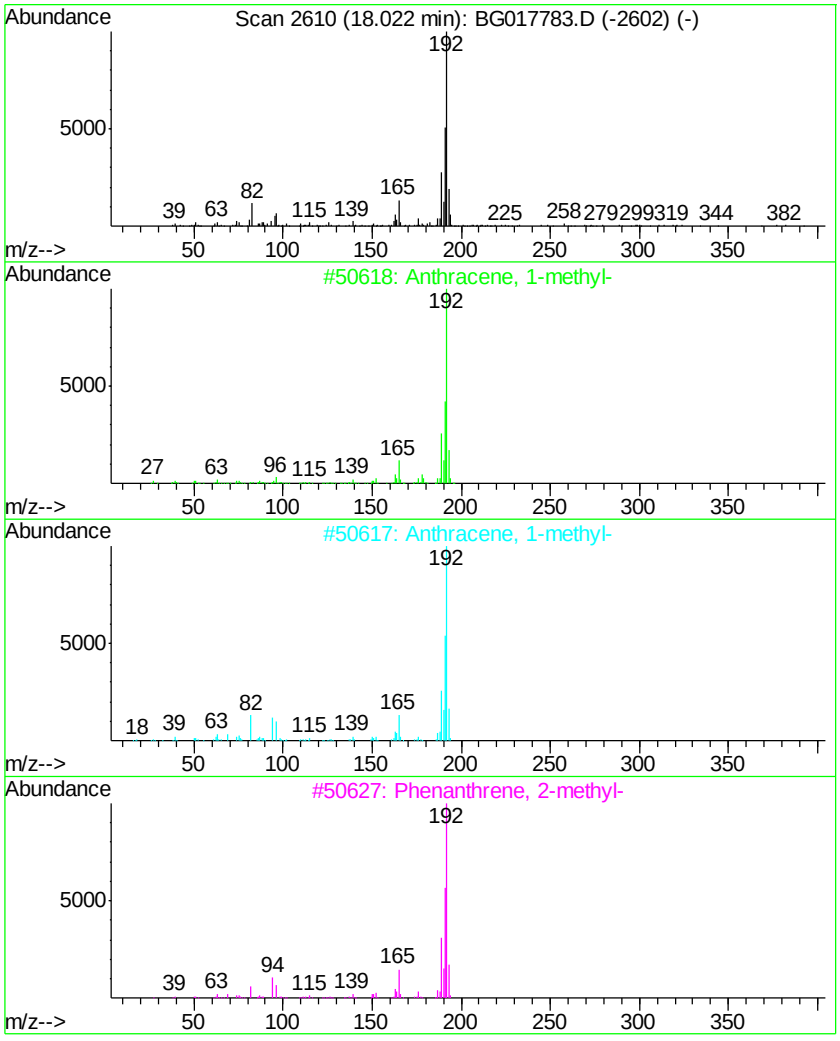
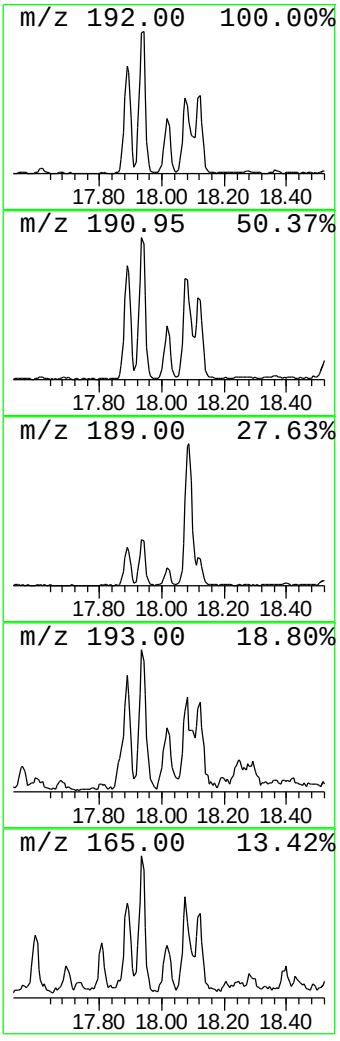
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.02	4.22 ng/ul	370923	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91





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Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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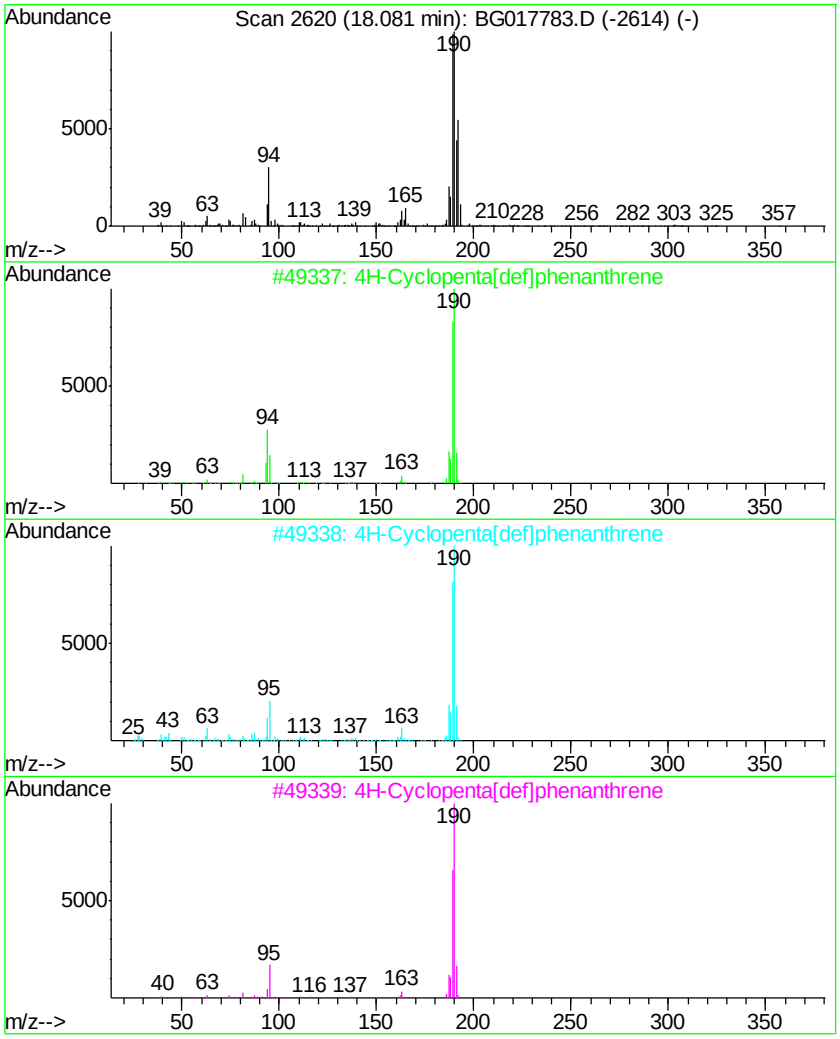
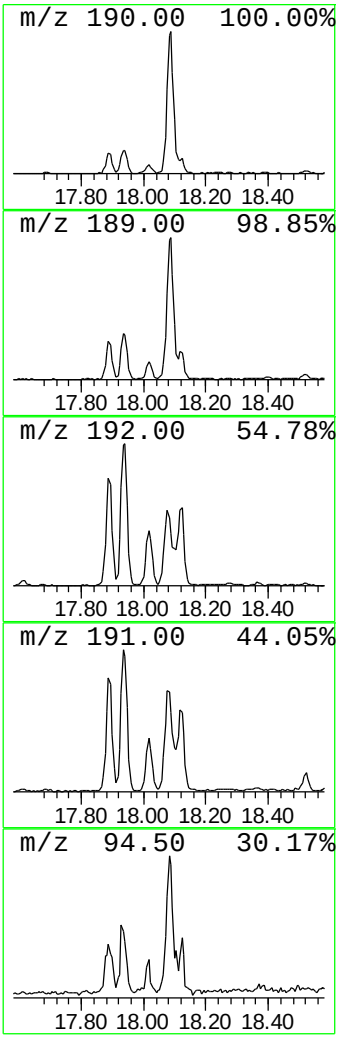
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	12.78 ng/ul	1123420	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30





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Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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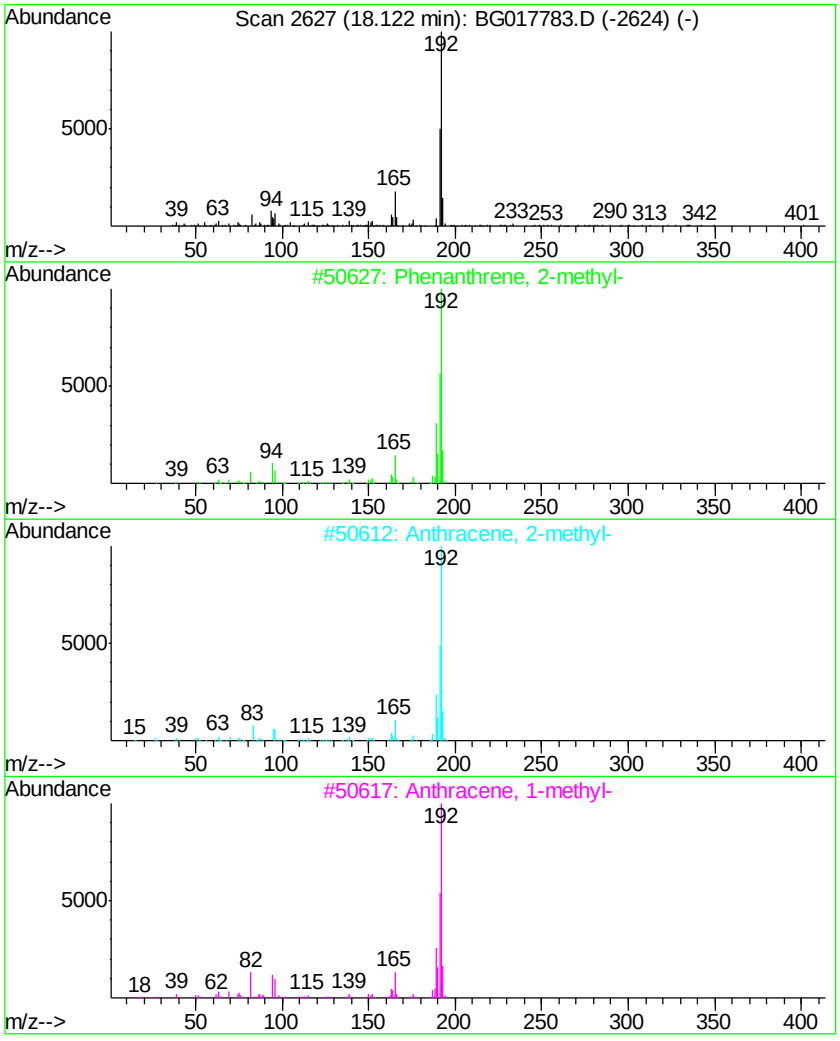
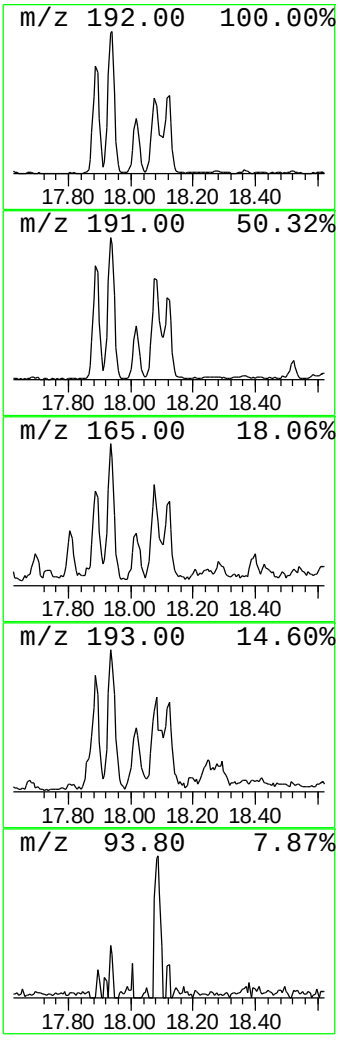
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	4.48 ng/ul	393610	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87





Library Search Compound Report

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Sample : G2860-11
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Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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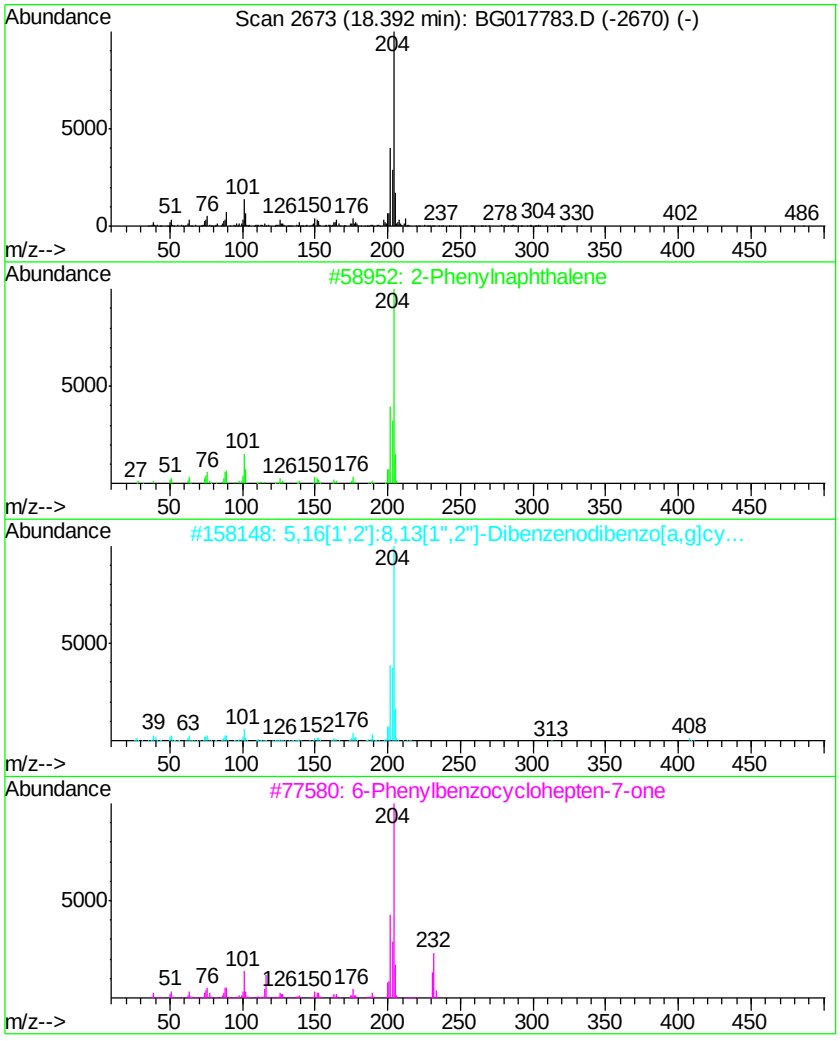
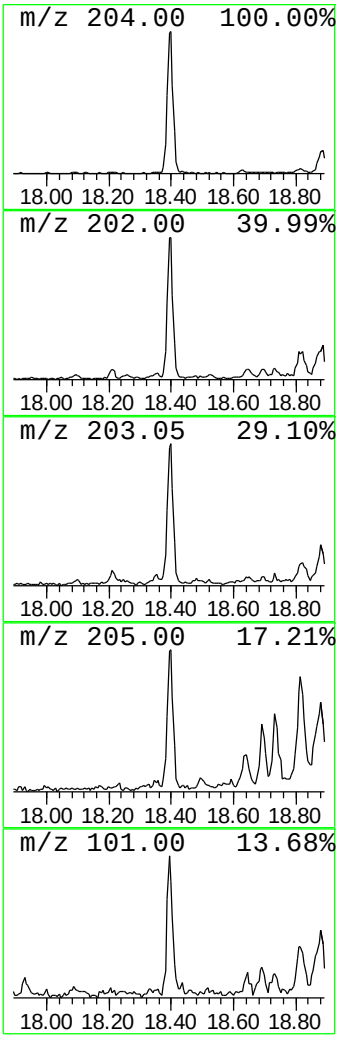
Peak Number 12 2-Phenylnaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.39	5.07 ng/ul	445748	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83





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Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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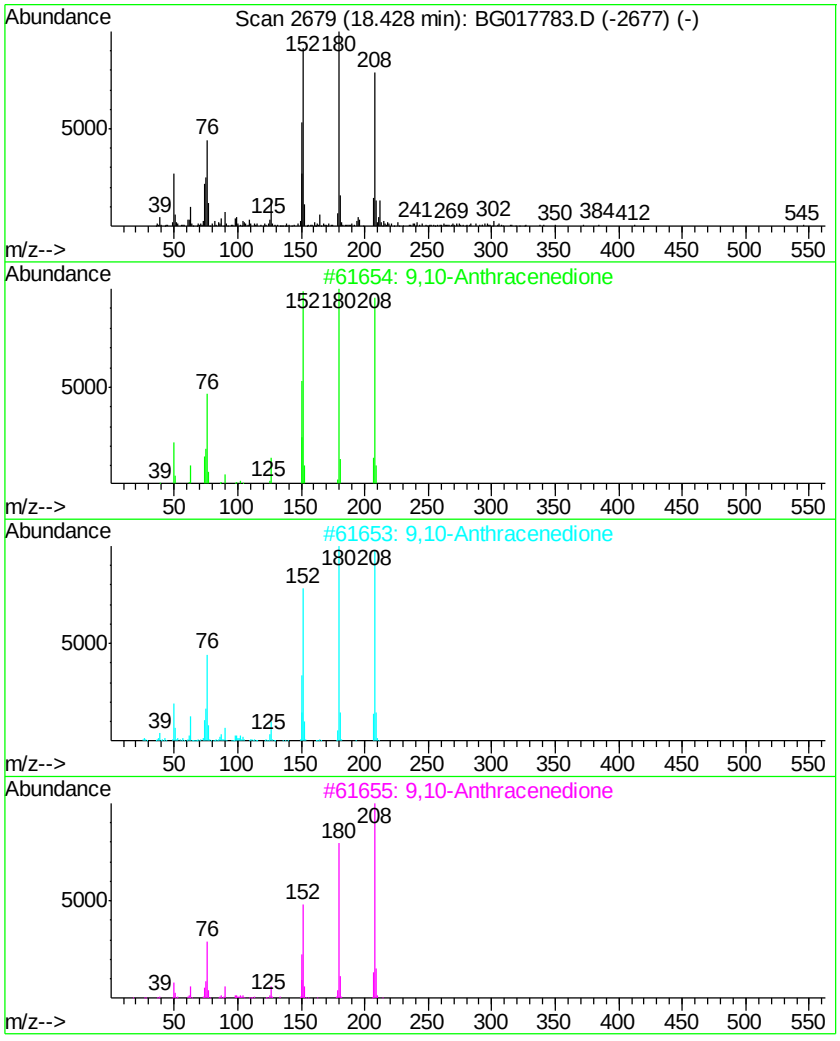
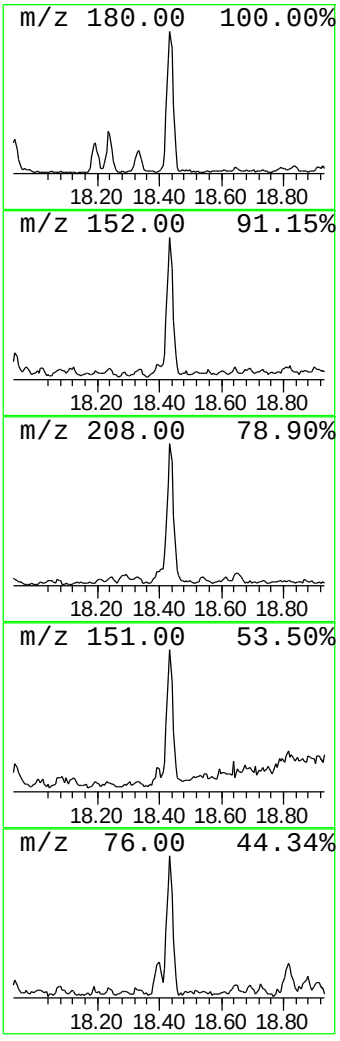
Peak Number 13 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	4.61 ng/ul	405131	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	70
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60





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Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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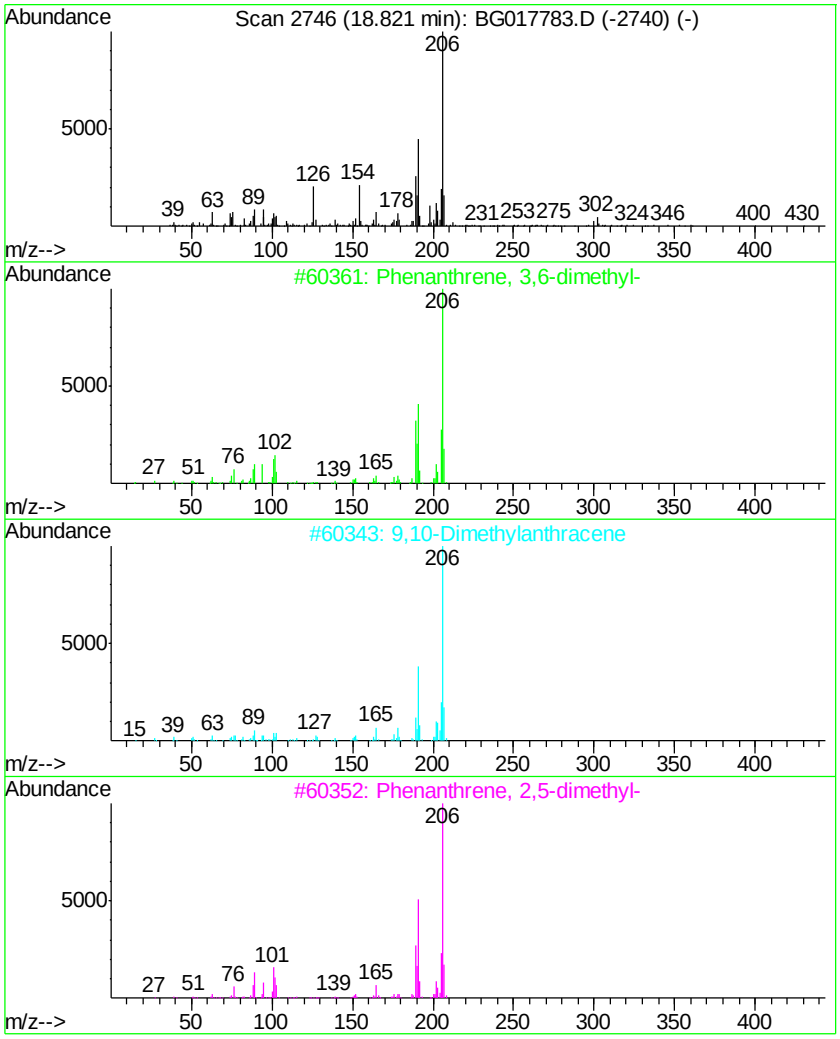
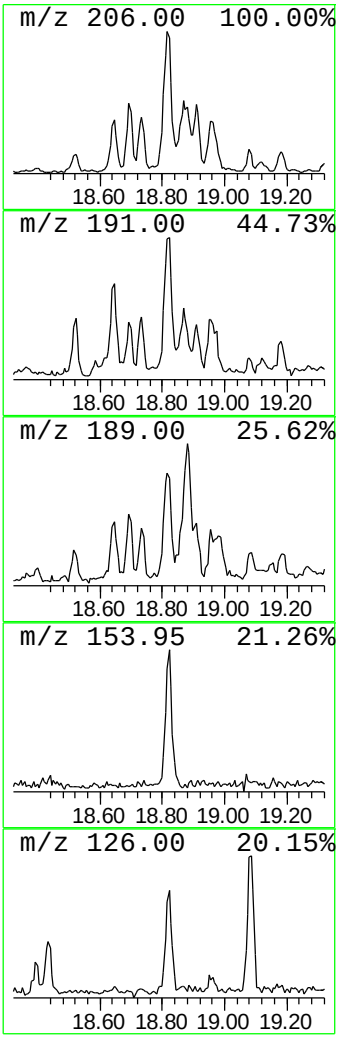
Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	4.87 ng/ul	428427	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	90





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ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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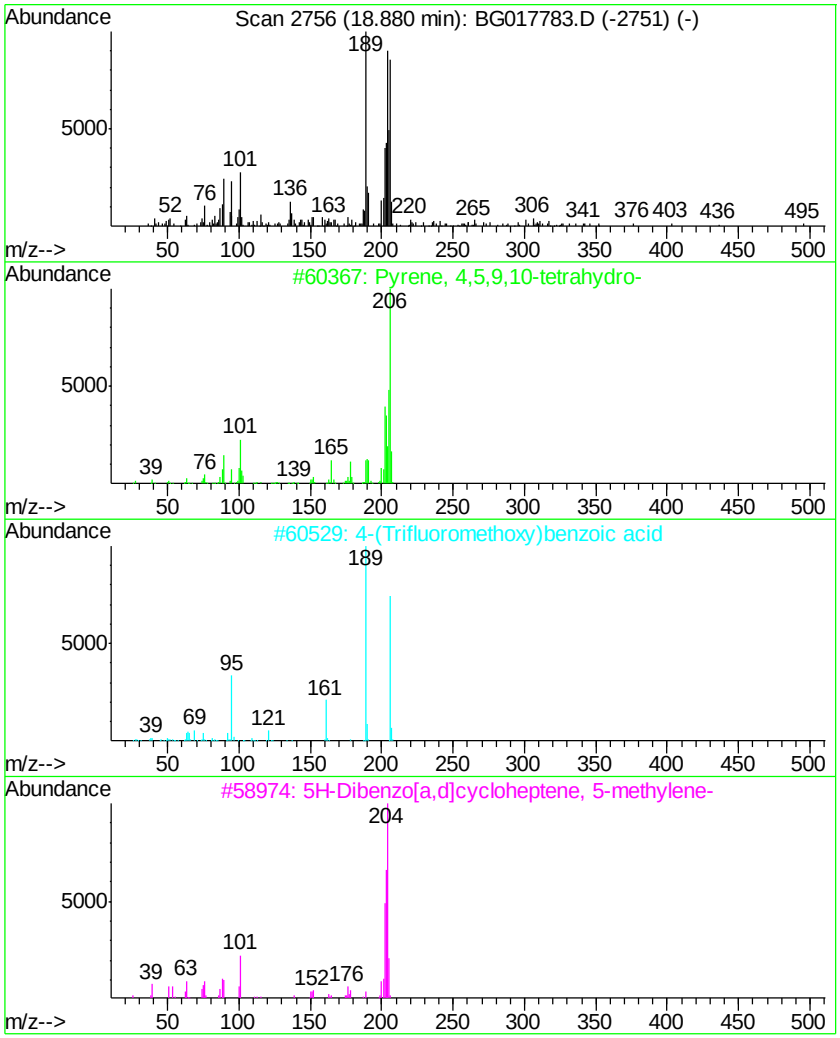
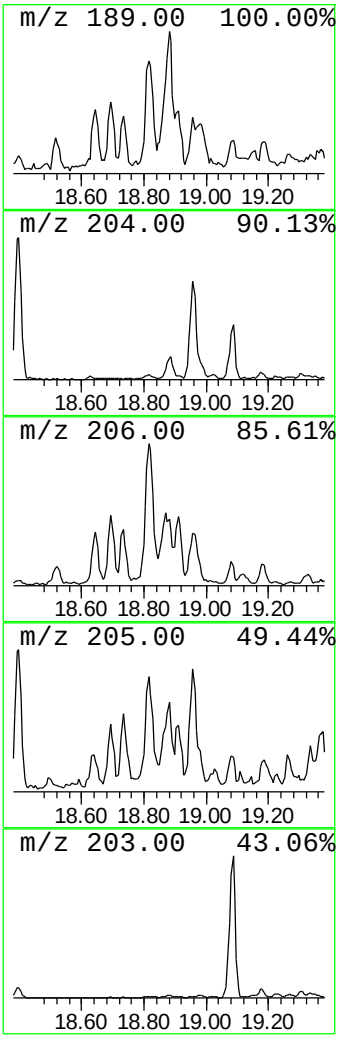
Peak Number 15 unknown-01 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	2.15 ng/ul	189193	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30
2	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	22
3	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	18
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	18
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	18





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ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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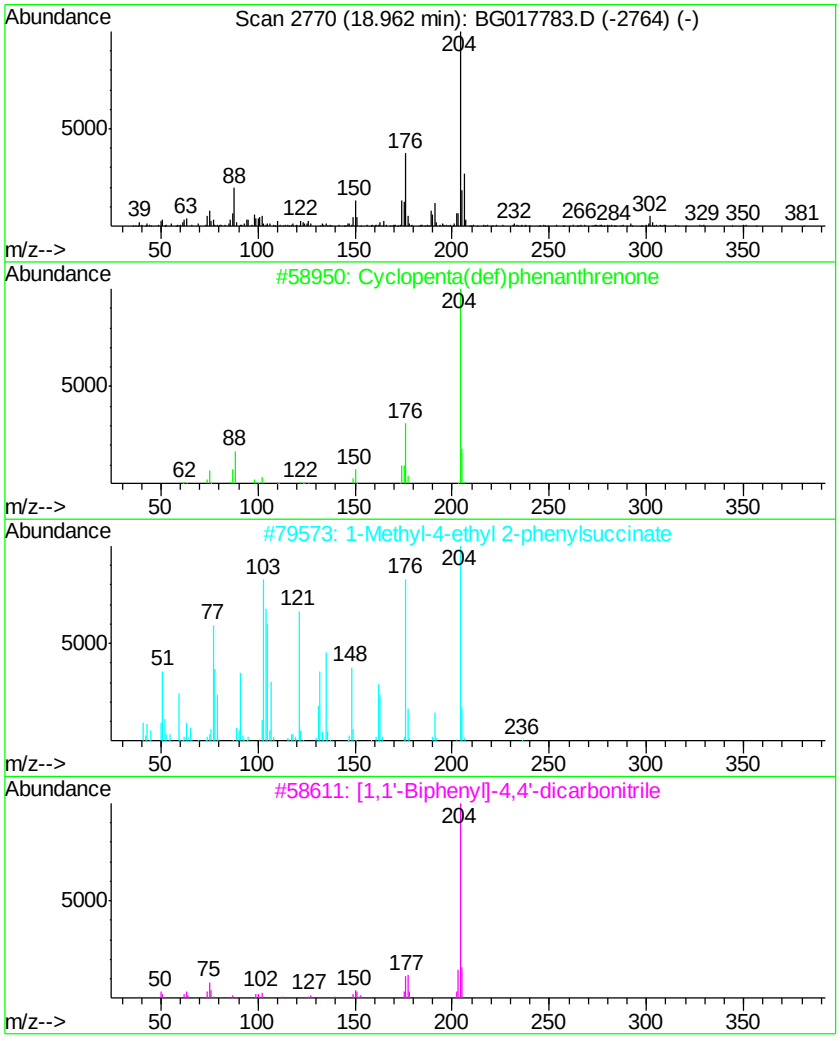
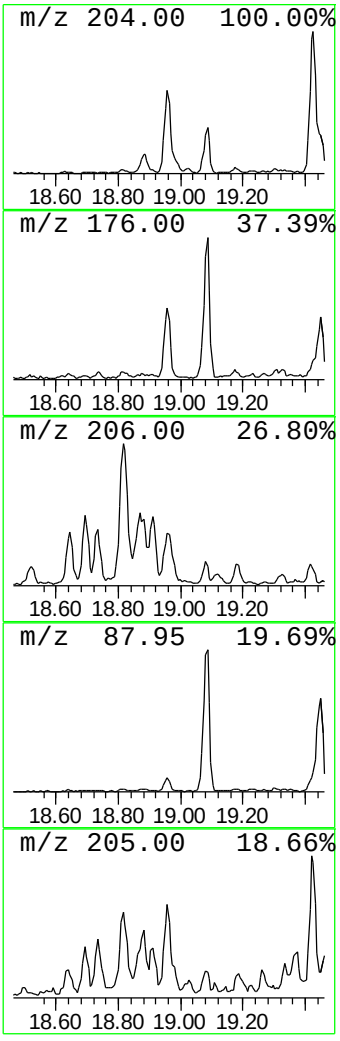
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.96	5.65 ng/ul	496888	Phenanthrene-d10	17.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	1-Methyl-4-ethyl 2-phenylsuccinate	236	C13H16O4	132545-36-9	50
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43
5	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	43





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Instrument : BNA_G
ClientSampleId : G93J6

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Quant Title : SVOA CALIBRATION

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

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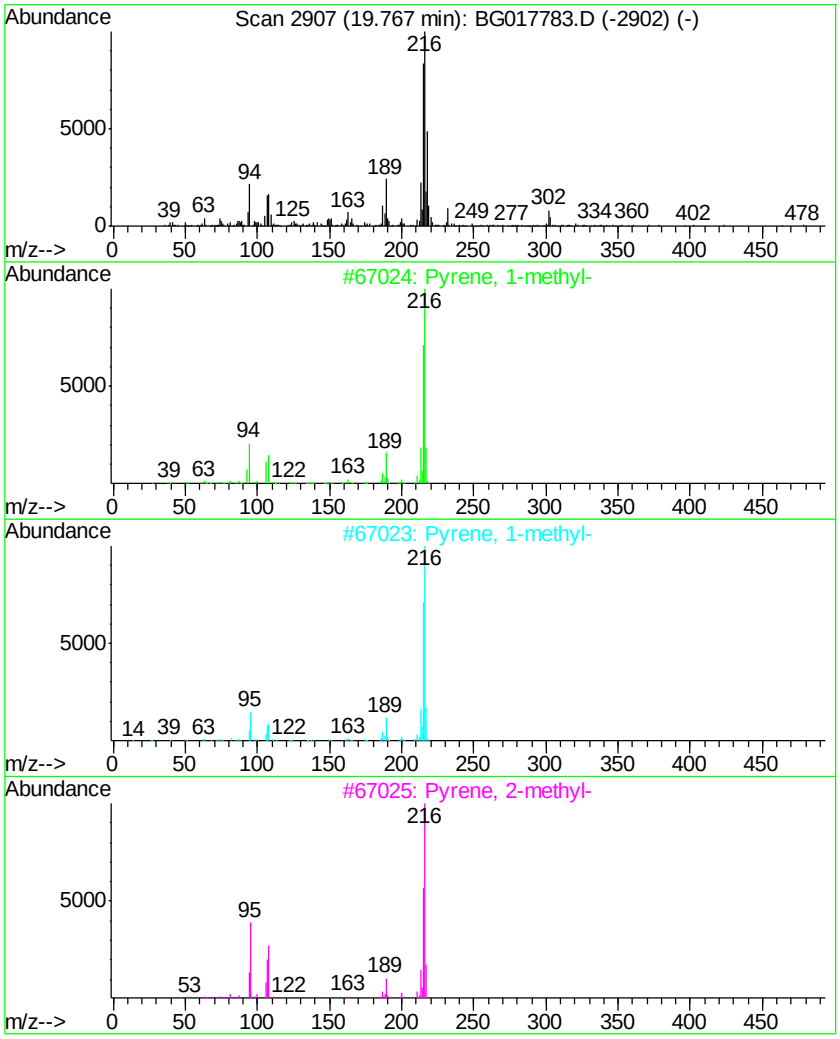
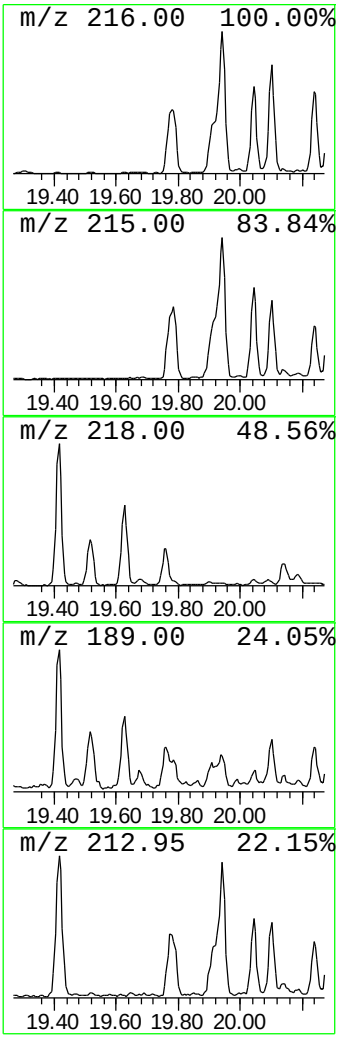
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.93 ng/ul	870683	Chrysene-d12	21.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89





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Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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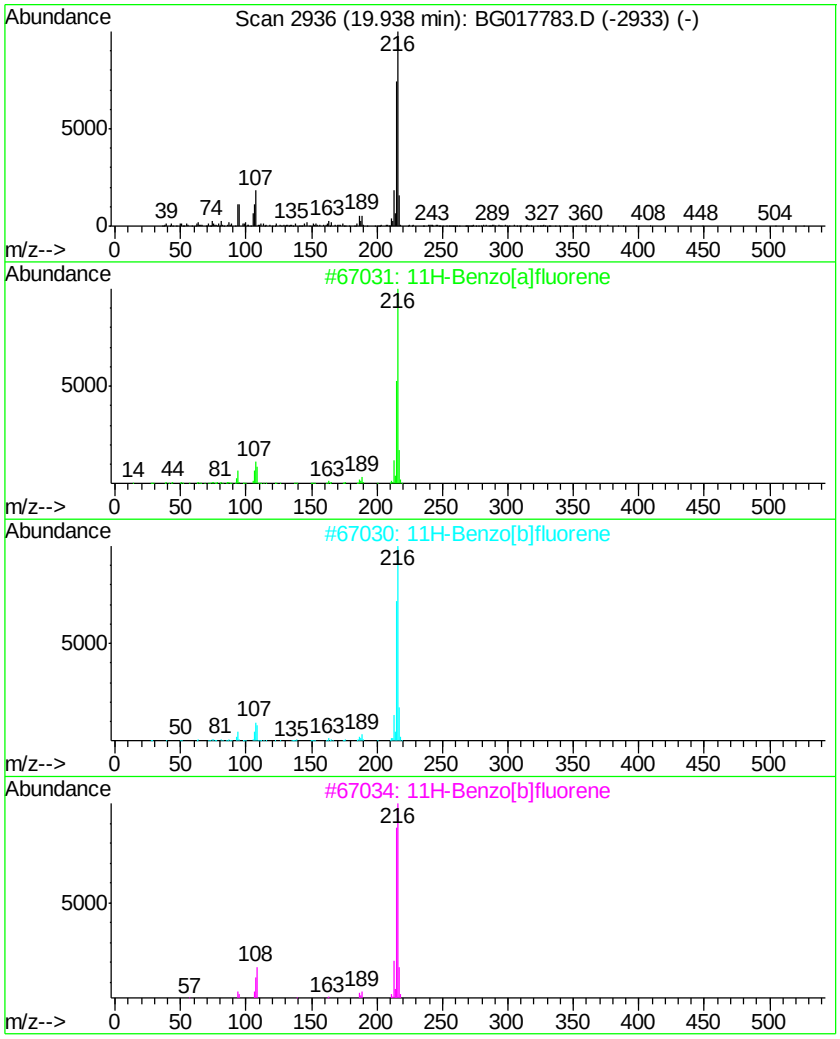
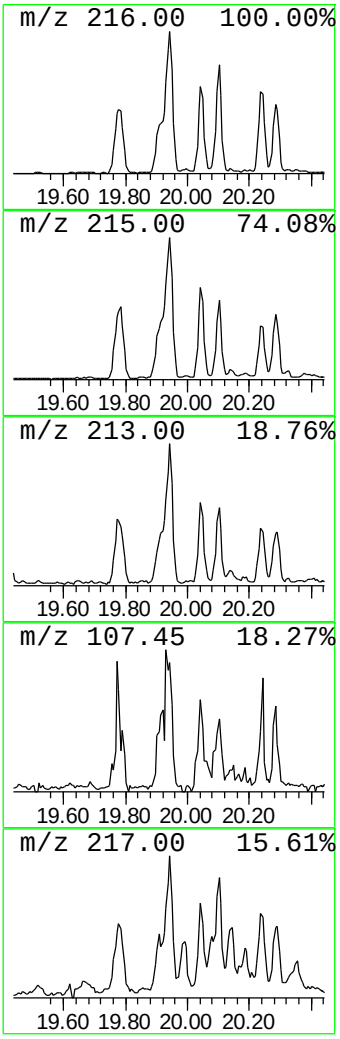
Peak Number 19 11H-Benzo[a]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.94	2.77 ng/ul	821548	Chrysene-d12	21.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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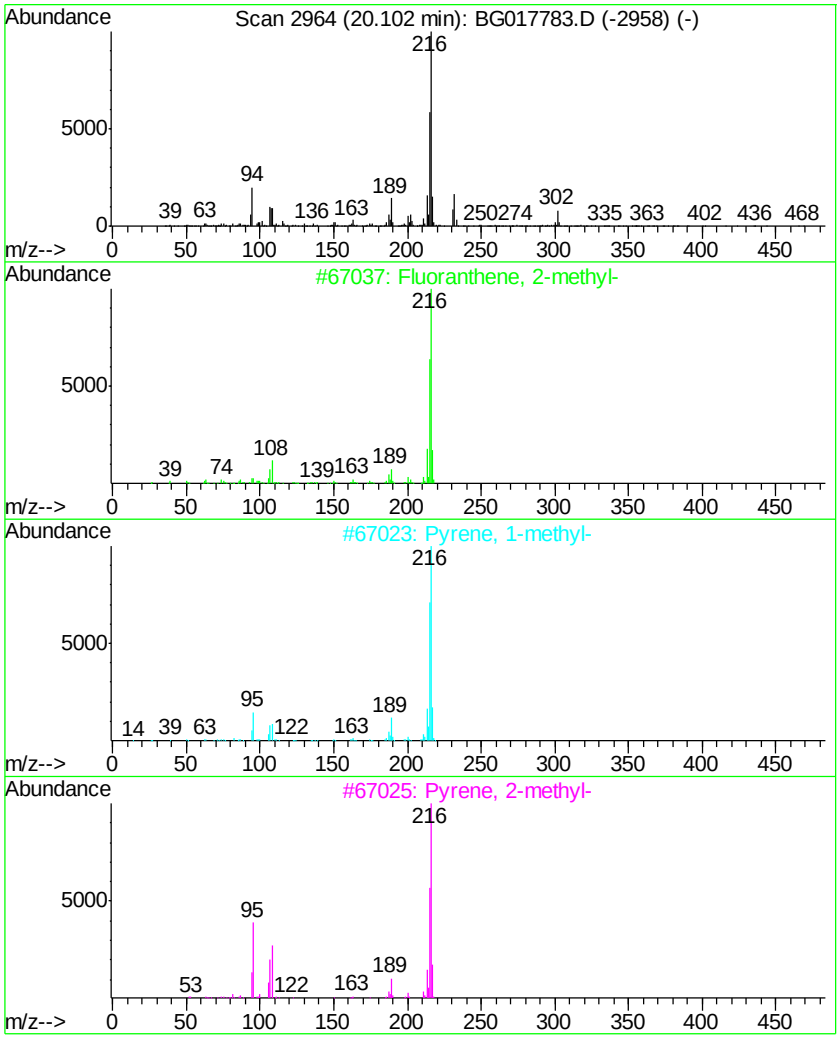
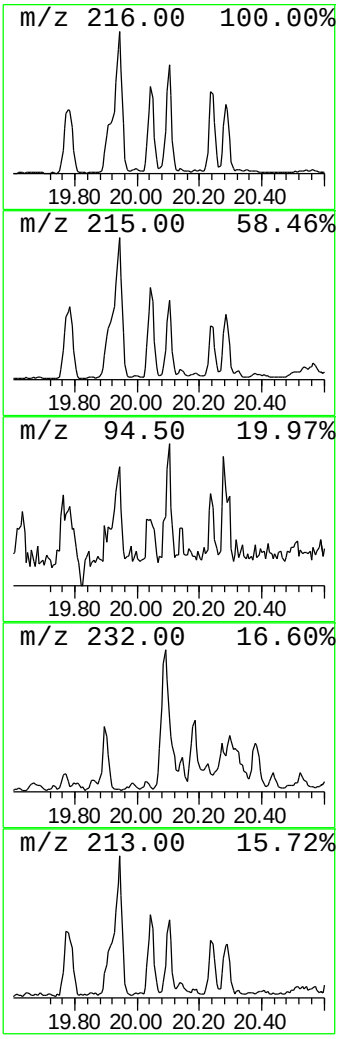
Peak Number 20 Fluoranthene, 2-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	2.63 ng/ul	779850	Chrysene-d12	21.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92





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Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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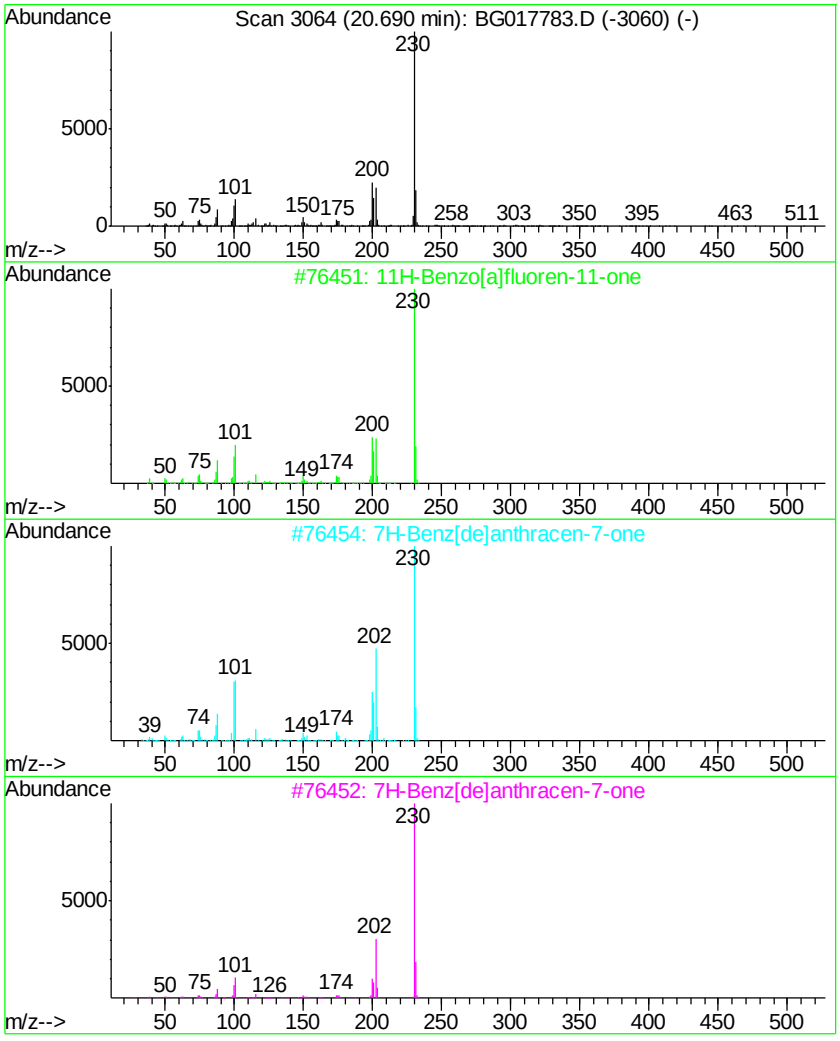
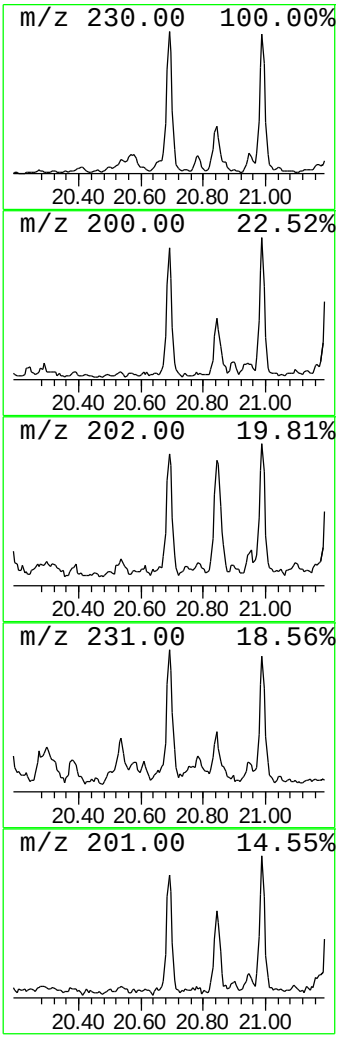
Peak Number 21 11H-Benzo[a]fluoren-11-one Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.69	2.52 ng/ul	748334	Chrysene-d12	21.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	99
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
4	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	80
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	80





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Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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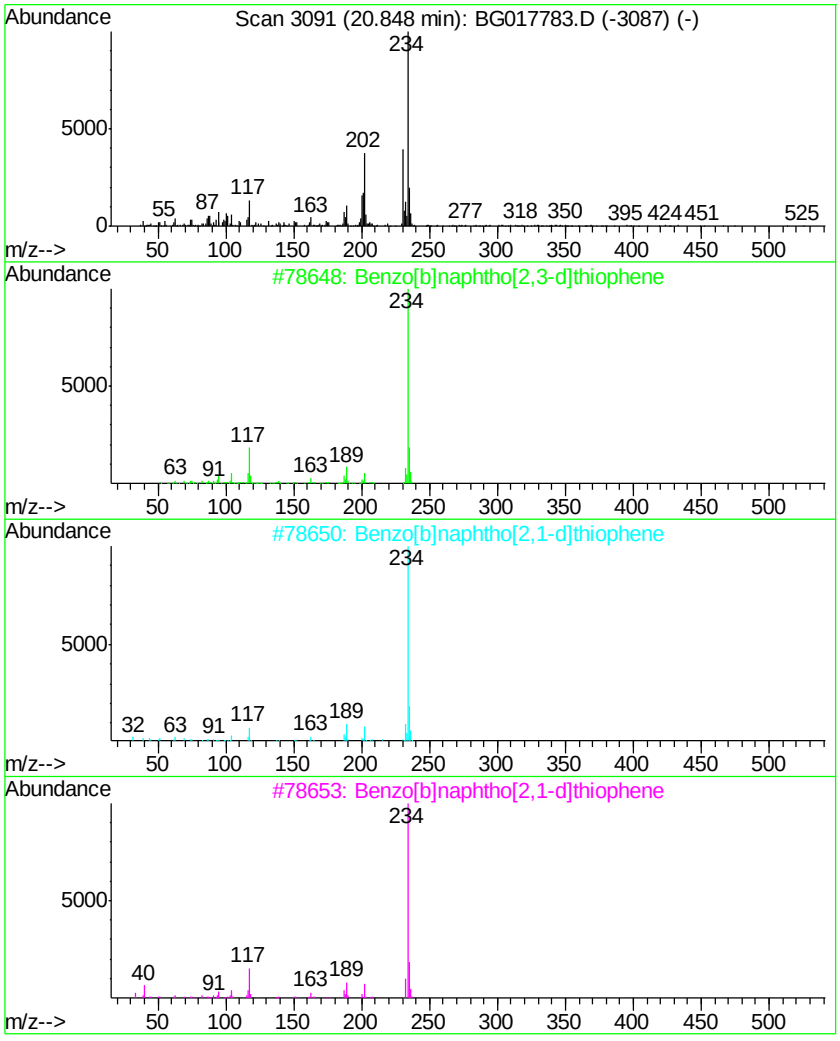
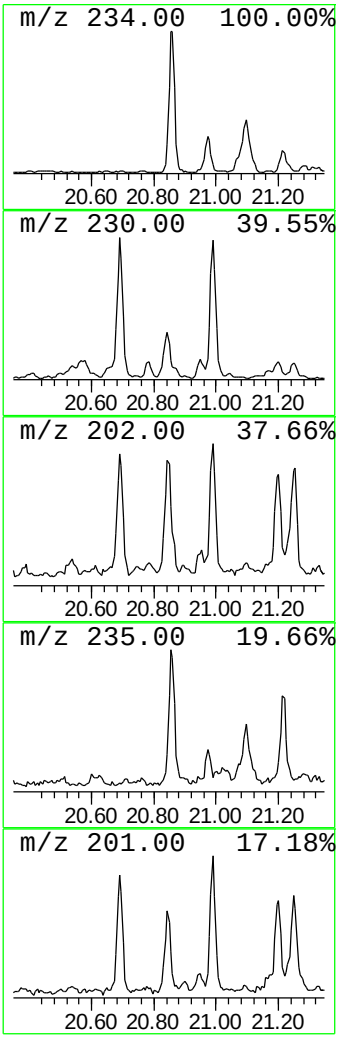
Peak Number 22 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.85	2.25 ng/ul	667497	Chrysene-d12	21.21

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[2,1-d]thiophene	234	C16H10S	000239-35-0	93
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	93
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	87





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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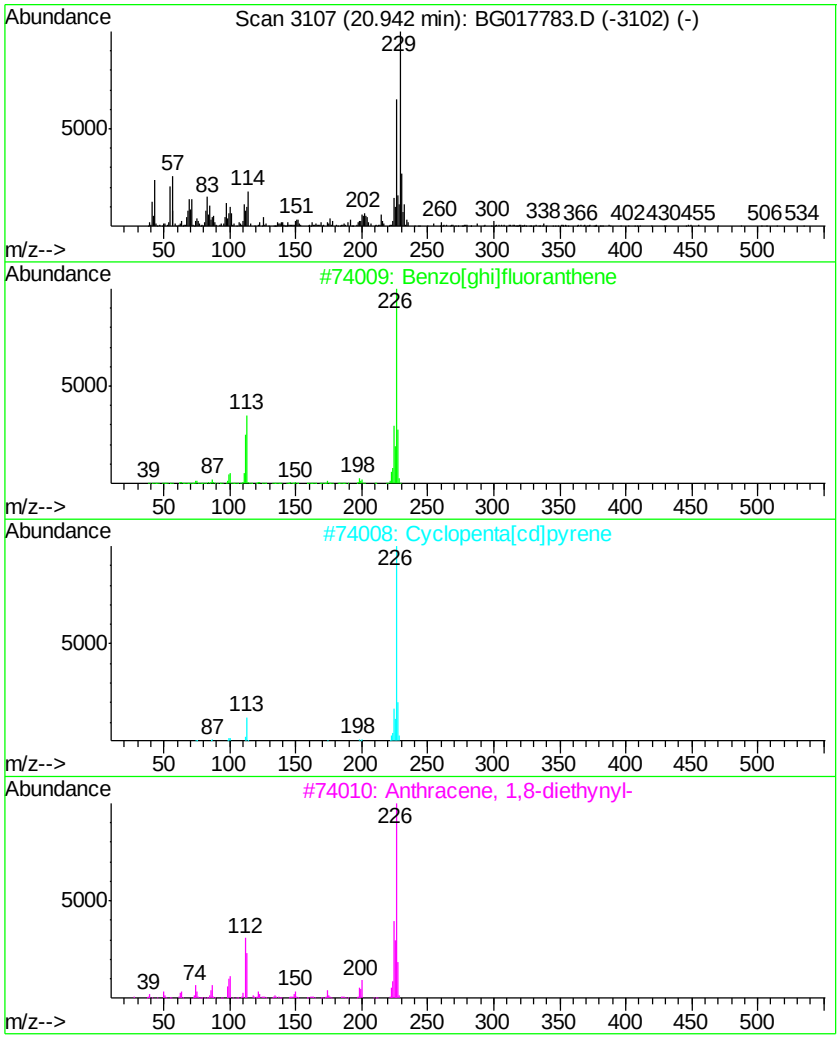
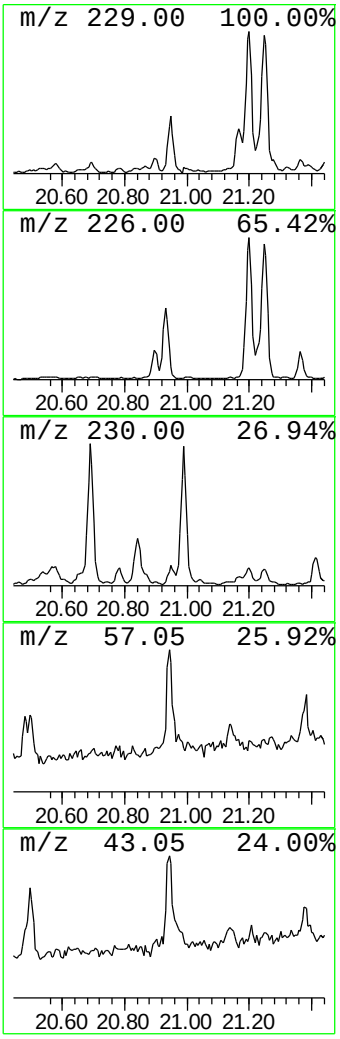
Peak Number 23 Benzo[ghi]fluoranthene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.94	3.12 ng/ul	926586	Chrysene-d12	21.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	53
2	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	50
3	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	50
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	50
5	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	47





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.M
Quant Title : SVOA CALIBRATION

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

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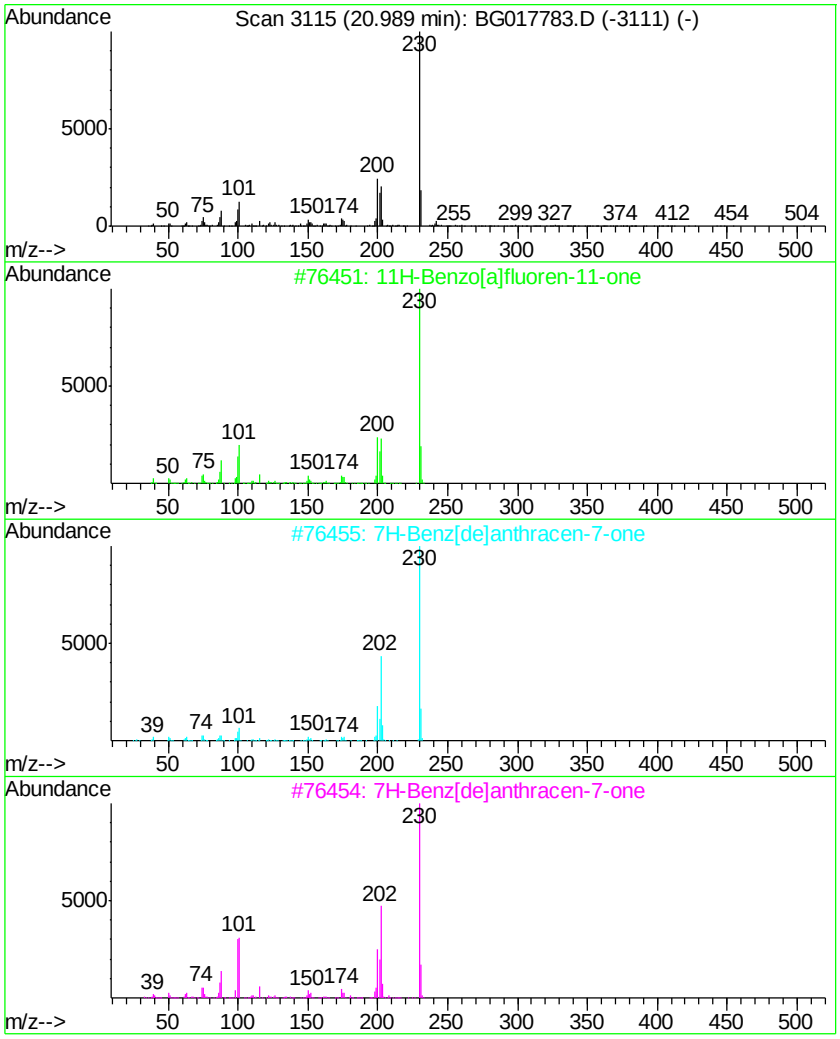
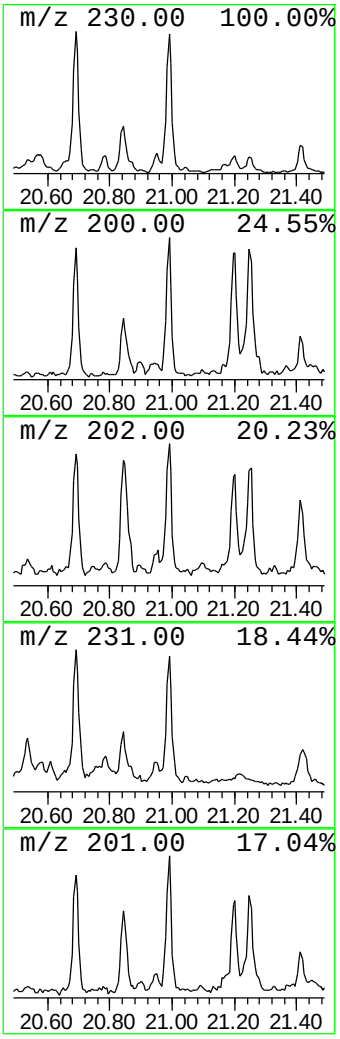
Peak Number 24 7H-Benz[de]anthracen-7-one Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.99	2.66 ng/ul	789688	Chrysene-d12	21.21

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	98
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070615\
Data File : BG017783.D
Acq On : 6 Jul 2015 23:40
Operator : TP/UM
Sample : G2860-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : G93J6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG070615.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
Butane, 2-methoxy...	2.89	73.3	ng/ul	2668230	1	7.60	727597	20.0
9H-Fluoren-9-ol	15.61	2.0	ng/ul	164548	3	14.26	1617860	20.0
2,4,6-Cycloheptat...	15.75	2.3	ng/ul	197371	4	17.01	1757920	20.0
Benzo[c]cinnoline	16.66	3.1	ng/ul	274424	4	17.01	1757920	20.0
Dibenzothiophene	16.83	3.4	ng/ul	295822	4	17.01	1757920	20.0
Phenanthrene, 2-m...	17.89	6.7	ng/ul	592169	4	17.01	1757920	20.0
Anthracene, 2-met...	17.93	11.3	ng/ul	990558	4	17.01	1757920	20.0
Anthracene, 1-met...	18.02	4.2	ng/ul	370923	4	17.01	1757920	20.0
4H-Cyclopenta[def...	18.08	12.8	ng/ul	1123420	4	17.01	1757920	20.0
1H-Cyclopropa[l]p...	18.12	4.5	ng/ul	393610	4	17.01	1757920	20.0
2-Phenylnaphthalene	18.39	5.1	ng/ul	445748	4	17.01	1757920	20.0
9,10-Anthracenedione	18.43	4.6	ng/ul	405131	4	17.01	1757920	20.0
Phenanthrene, 3,6...	18.82	4.9	ng/ul	428427	4	17.01	1757920	20.0
unknown-01	18.88	2.1	ng/ul	189193	4	17.01	1757920	20.0
Cyclopenta(def)ph...	18.96	5.7	ng/ul	496888	4	17.01	1757920	20.0
Pyrene, 1-methyl-	19.77	2.9	ng/ul	870683	5	21.21	5934360	20.0
11H-Benzo[a]fluorene	19.94	2.8	ng/ul	821548	5	21.21	5934360	20.0
Fluoranthene, 2-m...	20.10	2.6	ng/ul	779850	5	21.21	5934360	20.0
11H-Benzo[a]fluor...	20.69	2.5	ng/ul	748334	5	21.21	5934360	20.0
Benzo[b]naphtho[2...	20.85	2.3	ng/ul	667497	5	21.21	5934360	20.0
Benzo[ghi]fluoran...	20.94	3.1	ng/ul	926586	5	21.21	5934360	20.0
7H-Benz[de]anthra...	20.99	2.7	ng/ul	789688	5	21.21	5934360	20.0