LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

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-BG011216.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	3.050	32	36	41	rBV2	12294	23224	2.46%	0.199%
2	3.132	46	50	55	rVB	12149	18242	1.93%	0.156%
3	8.044	880	886	896	rVB	62494	106214	11.23%	0.911%
4	10.859	1358	1365	1371	rBV	91348	159347	16.85%	1.367%
5	10.912	1371	1374	1381	rVB	8040	10864	1.15%	0.093%
6	12.516	1640	1647	1654	rBB	5666	9504	1.01%	0.082%
7	12.733	1679	1684	1690	rBB2	6454	10489	1.11%	0.090%
8	13.855	1869	1875	1881	rBB3	3712	7999	0.85%	0.069%
9	14.002	1894	1900	1905	rBV2	11399	19380	2.05%	0.166%
10	14.078	1910	1913	1917	rVV	10385	15989	1.69%	0.137%
11	14.131	1917	1922	1927	rVB3	5363	8731	0.92%	0.075%
12	14.378	1958	1964	1967	rBV	11436	18377	1.94%	0.158%
13	14.684	2006	2016	2022	rBV2	154785	245515	25.97%	2.106%
14	14.742	2022	2026	2032	rVB	16320	24833	2.63%	0.213%
15	15.077	2075	2083	2090	rVV2	14358	24100	2.55%	0.207%
16	15.148	2090	2095	2101	rVB2	10795	15016	1.59%	0.129%
17	15.289	2112	2119	2125	rBV3	9479	15817	1.67%	0.136%
18	15.348	2125	2129	2134	rVB	7284	9577	1.01%	0.082%
19	15.465	2142	2149	2151	rBV2	6054	11212	1.19%	0.096%
20	15.494	2151	2154	2159	rVB3	7119	10097	1.07%	0.087%
21	15.671	2180	2184	2188	rVV2	17183	24141	2.55%	0.207%
22	15.729	2188	2194	2205	rVB	24986	45608	4.82%	0.391%
23	15.853	2212	2215	2218	rVV2	5464	7822	0.83%	0.067%
24	15.894	2218	2222	2226	rVV5	4928	10119	1.07%	0.087%
25	15.941	2226	2230	2234	rVV4	3863	7784	0.82%	0.067%
26	16.017	2237	2243	2249	rVB3	9523	18780	1.99%	0.161%
27	16.170	2264	2269	2276	rVV3	9134	16847	1.78%	0.144%
28	16.364	2298	2302	2303	rBV	8276	9224	0.98%	0.079%
29	16.393	2303	2307	2314	rVB6	15369	29066	3.07%	0.249%
30	16.534	2327	2331	2335	rBV3	5830	7935	0.84%	0.068%
31	16.705	2354	2360	2361	rBV3	10214	13182	1.39%	0.113%
32	16.728	2361	2364	2369	rVV5	15129	25354	2.68%	0.217%
33	16.781	2369	2373	2378	rVB3	12980	18903	2.00%	0.162%
34	16.881	2385	2390	2395	rVB3	9694	17425	1.84%	0.149%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

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-BG011216.M
Title : SVOA CALIBRATION

35	16.952	2395	2402	2406	rBV7	9489	22461	2.38%	0.193%
36	17.087	2419	2425	2432	rVB3	19406	32655	3.45%	0.280%
37	17.151	2432	2436	2442	rVV5	15445	27088	2.87%	0.232%
38	17.210	2442	2446	2448	rVV3	6139	9835	1.04%	0.084%
39	17.245	2448	2452	2461	rVV	29424	45345	4.80%	0.389%
40	17.427	2477	2483	2486	rBV	201921	303952	32.15%	2.607%
41	17.474	2486	2491	2496	rVV	348139	538331	56.94%	4.617%
42	17.527	2496	2500	2503	rVV	20438	31197	3.30%	0.268%
43	17.563	2503	2506	2510	rVB	38300	49769	5.26%	0.427%
44	17.616	2510	2515	2520	rVB2	13071	26532	2.81%	0.228%
45	17.833	2546	2552	2559	rBV2	25472	52886	5.59%	0.454%
46	17.892	2560	2562	2567	rVV4	12657	17435	1.84%	0.150%
47	17.939	2567	2570	2574	rVV	16026	21196	2.24%	0.182%
48	18.009	2577	2582	2589	rVB2	42914	67145	7.10%	0.576%
49	18.150	2602	2606	2614	rVB2	26472	49501	5.24%	0.425%
50	18.227	2615	2619	2622	rBV4	9850	14342	1.52%	0.123%
51	18.303	2627	2632	2636	rVV	132966	195200	20.65%	1.674%
52	18.350	2636	2640	2646	rVB	168258	240872	25.48%	2.066%
53	18.432	2650	2654	2659	rBV3	20630	32148	3.40%	0.276%
54	18.491	2659	2664	2669	rBV2	130283	262157	27.73%	2.248%
55	18.532	2669	2671	2677	rVB	93976	115556	12.22%	0.991%
56	18.585	2677	2680	2682	rBV2	8718	11526	1.22%	0.099%
57	18.650	2687	2691	2694	rVB4	8995	12588	1.33%	0.108%
58	18.697	2694	2699	2704	rBV2	23192	32604	3.45%	0.280%
59	18.744	2704	2707	2711	rBV4	7178	10150	1.07%	0.087%
60	18.796	2711	2716	2720	rBV	74173	112167	11.86%	0.962%
61	18.849	2720	2725	2733	rVB2	85934	150016	15.87%	1.287%
62	18.920	2734	2737	2739	rBV	9798	11727	1.24%	0.101%
63	18.961	2740	2744	2750	rVB2	10510	20405	2.16%	0.175%
64	19.037	2750	2757	2762	rBV3	52530	103861	10.99%	0.891%
65	19.090	2762	2766	2770	rBV	68174	89443	9.46%	0.767%
66	19.131	2770	2773	2777	rVB2	55539	69898	7.39%	0.599%
67	19.214	2781	2787	2792	rBV	165354	269686	28.53%	2.313%
68	19.267	2792	2796	2800	rBV2	44516	76506	8.09%	0.656%
69	19.355	2806	2811	2817	rBV3	61995	144658	15.30%	1.241%
70	19.478	2826	2832	2838	rBV	538091	784452	82.98%	6.728%
71	19.537	2838	2842	2845	rBV	36062	53341	5.64%	0.457%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

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-BG011216.M
Title : SVOA CALIBRATION

72	19.572	2845	2848	2852	rVB3	34713	45901	4.86%	0.394%
73	19.631	2855	2858	2861	rBV2	11073	14432	1.53%	0.124%
74	19.678	2862	2866	2869	rBV2	18417	26927	2.85%	0.231%
75	19.719	2869	2873	2876	rBV3	35224	50760	5.37%	0.435%
76	19.813	2883	2889	2890	rBV2	101201	151053	15.98%	1.296%
77	19.842	2890	2894	2901	rVB	609011	930725	98.45%	7.982%
78	19.913	2901	2906	2911	rBV	91641	141776	15.00%	1.216%
79	20.071	2929	2933	2941	rVB4	41657	81433	8.61%	0.698%
80	20.165	2942	2949	2956	rBV5	82580	217431	23.00%	1.865%
81	20.330	2967	2977	2985	rVB	126732	317291	33.56%	2.721%
82	20.430	2990	2994	2998	rVV	73522	98273	10.39%	0.843%
83	20.489	2999	3004	3008	rVV2	114934	172426	18.24%	1.479%
84	20.630	3024	3028	3032	rBV	111393	148636	15.72%	1.275%
85	20.677	3032	3036	3039	rVV	79356	101122	10.70%	0.867%
86	20.882	3067	3071	3074	rBV3	54719	74703	7.90%	0.641%
87	21.094	3104	3107	3114	rVB2	79778	128136	13.55%	1.099%
88	21.282	3130	3139	3143	rBV3	98282	227216	24.03%	1.949%
89	21.323	3143	3146	3150	rVB	62001	81579	8.63%	0.700%
90	21.376	3151	3155	3159	rBV3	45298	78031	8.25%	0.669%
91	21.693	3202	3209	3215	rBV2	339393	945399	100.00%	8.108%
92	21.752	3215	3219	3230	rVB	285227	502848	53.19%	4.313%
93	21.905	3242	3245	3249	rBV2	26539	33735	3.57%	0.289%
94	22.510	3344	3348	3356	rVB	52697	100421	10.62%	0.861%
95	22.715	3379	3383	3387	rBV3	34392	60206	6.37%	0.516%
96	23.926	3580	3589	3596	rBV	160844	526171	55.66%	4.513%
97	24.654	3705	3713	3722	rBV	107989	288819	30.55%	2.477%
98	24.807	3731	3739	3749	rVB	151822	419353	44.36%	3.597%
99	24.954	3758	3764	3773	rVB2	114105	287176	30.38%	2.463%
100	28.685	4389	4399	4416	rVB5	60682	282467	29.88%	2.423%

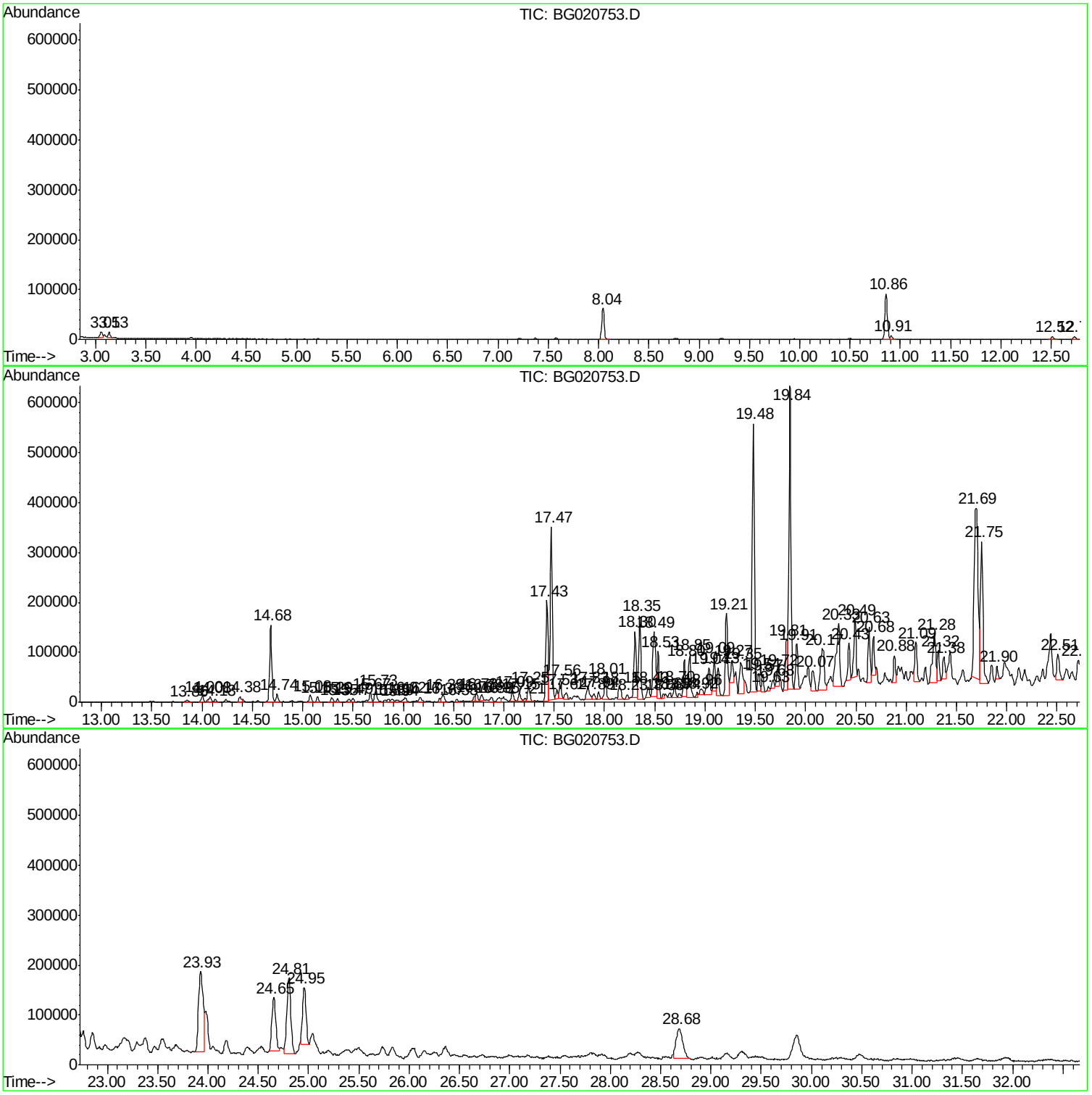
Sum of corrected areas: 11659794

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

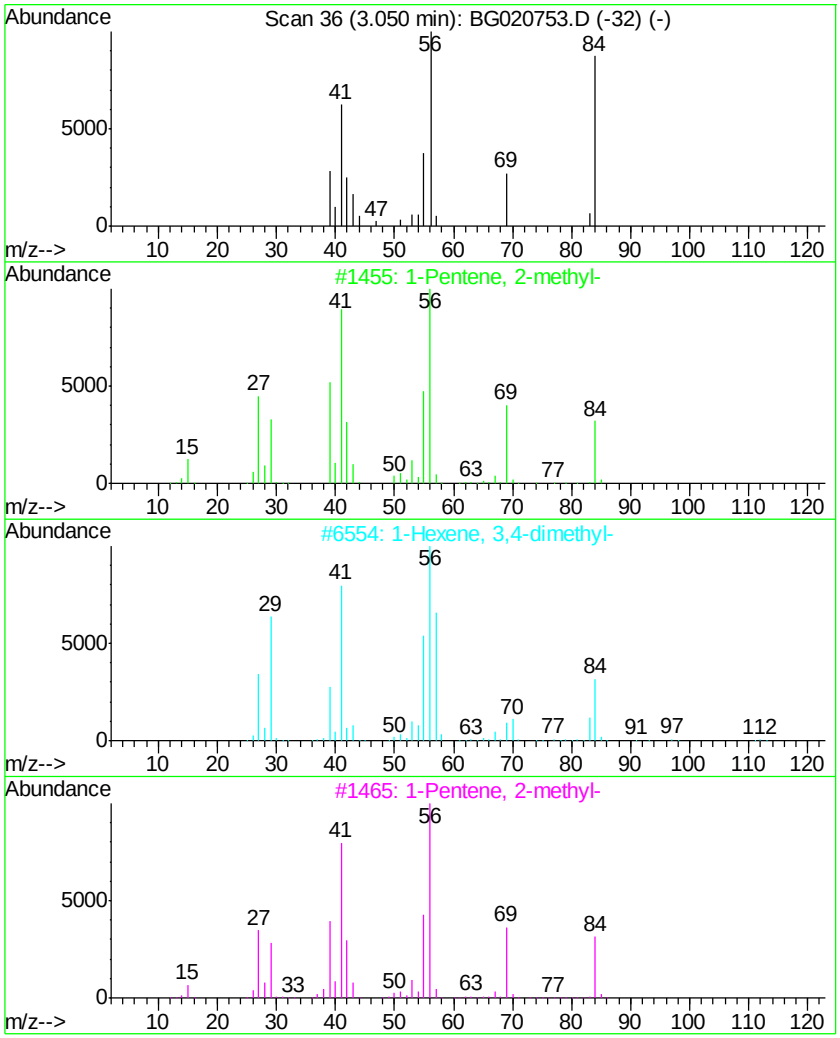
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

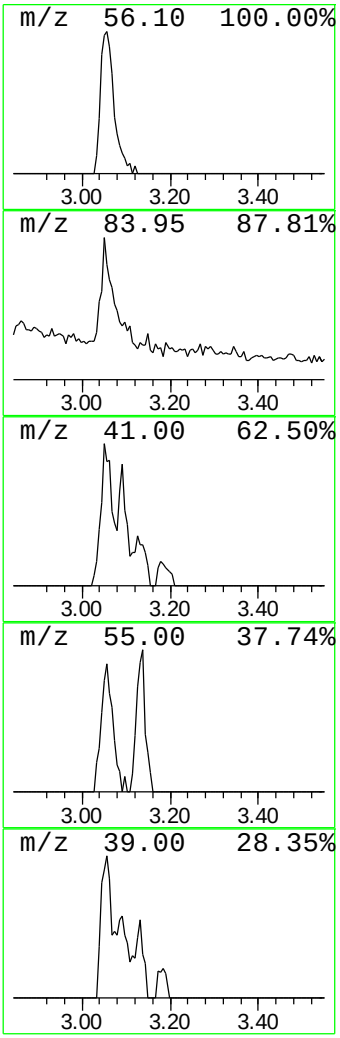
****

Peak Number 1 (DEL) Alkane: Cyclic3.05 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.05	4.37 ng/ul	23224	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	78
2	1-Hexene, 3,4-dimethyl-	112	C8H16	016745-94-1	56
3	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	50
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	47
5	1-Hexene	84	C6H12	000592-41-6	45





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

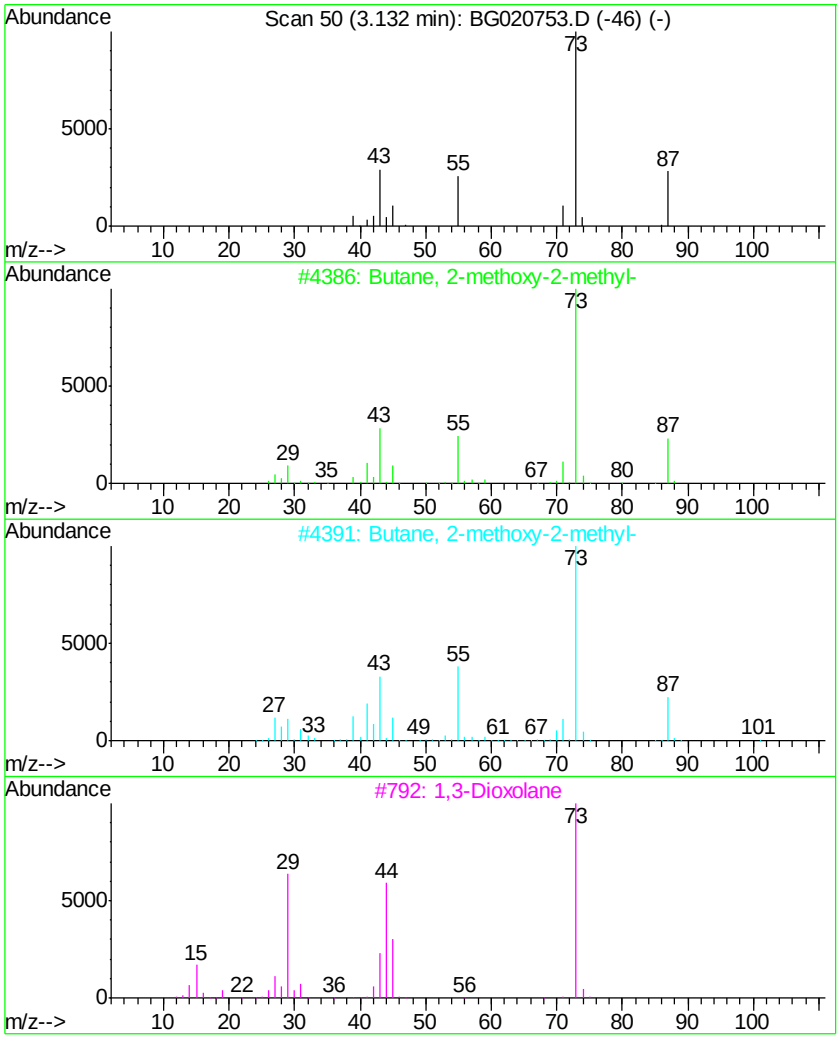
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

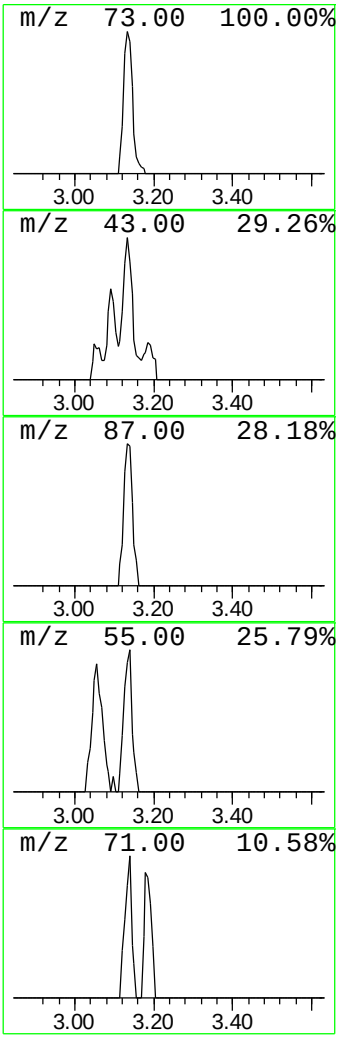
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.13	3.43 ng/ul	18242	1,4-Dichlorobenzene-d4	8.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	72
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	43
3	1,3-Dioxolane	74	C3H6O2	000646-06-0	7
4	1-Propene-1-thiol	74	C3H6S	000925-89-3	7
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	5





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

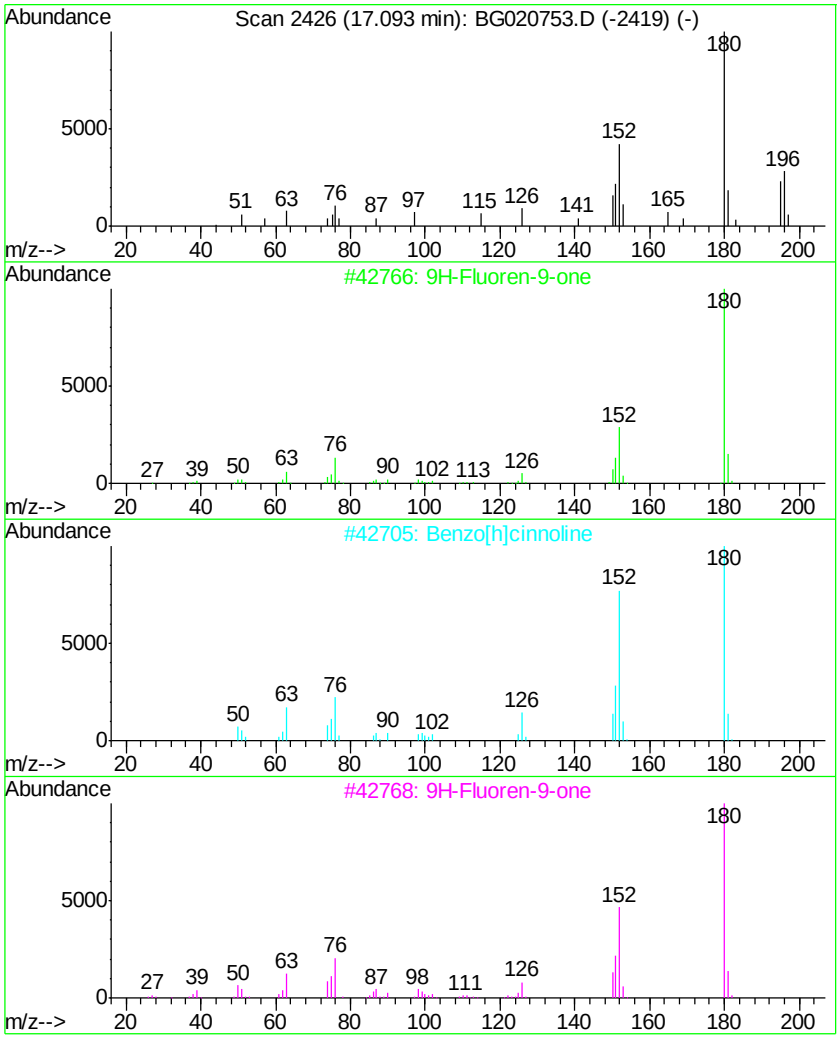
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

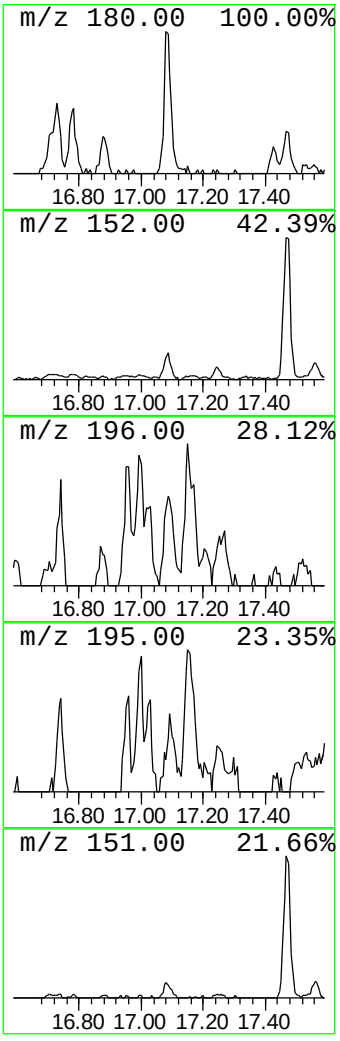
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	2.15 ng/ul	32655	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	81
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	76
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
5	9-Aminofluorene	181	C13H11N	005978-75-6	59





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

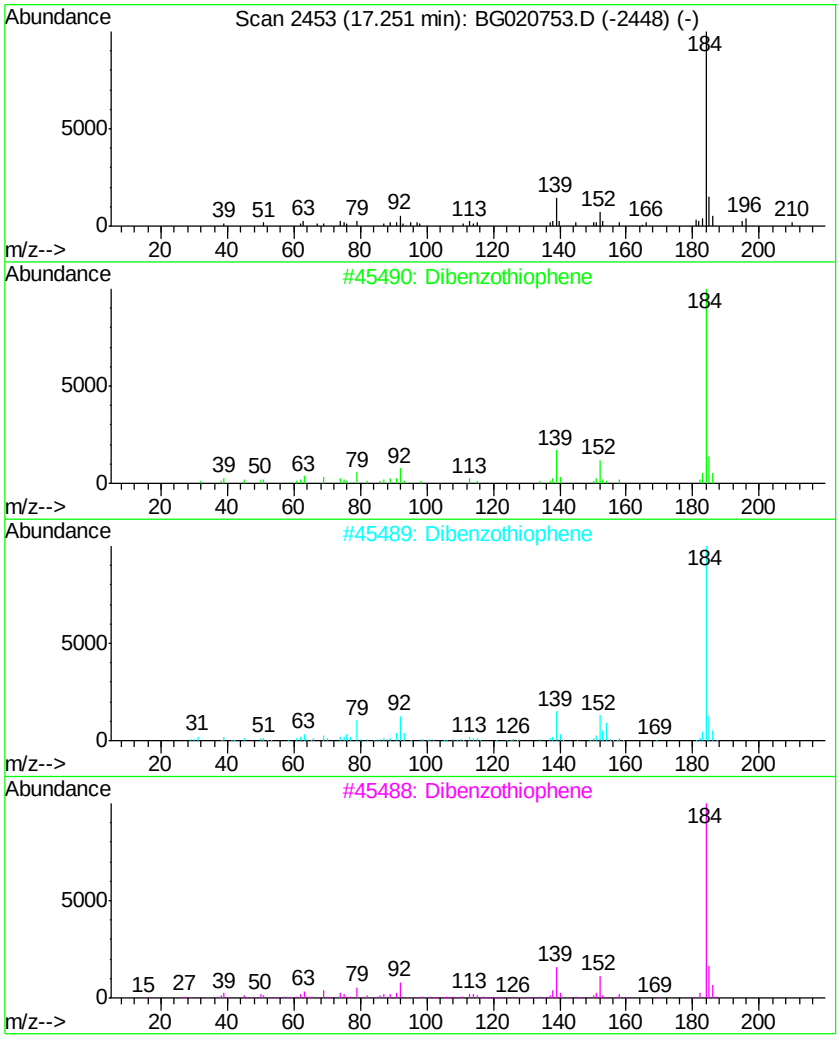
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

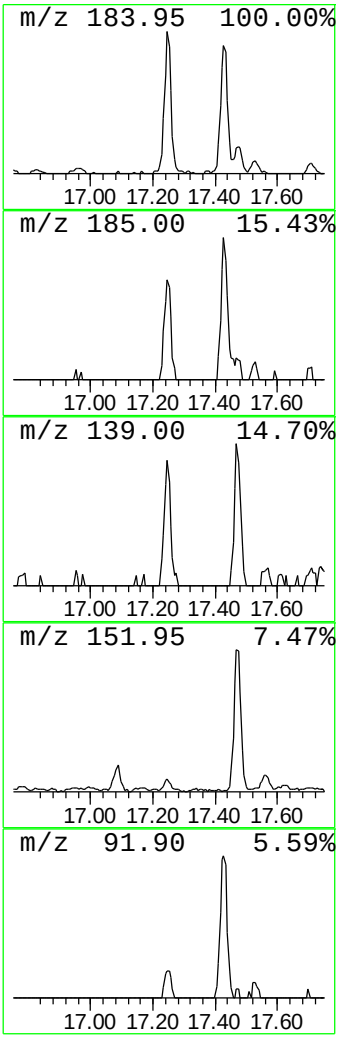
****

Peak Number 4 Dibenzothiophene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	2.98 ng/ul	45345	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	93
4	Dibenzothiophene	184	C12H8S	000132-65-0	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	93





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

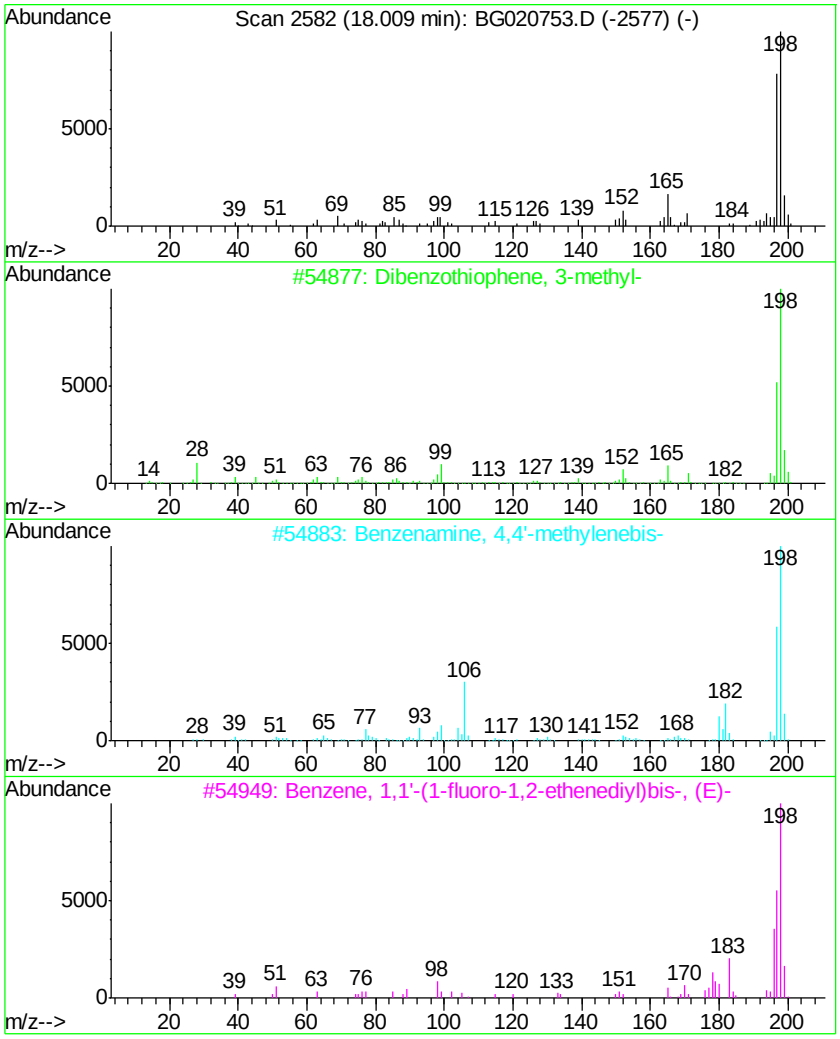
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

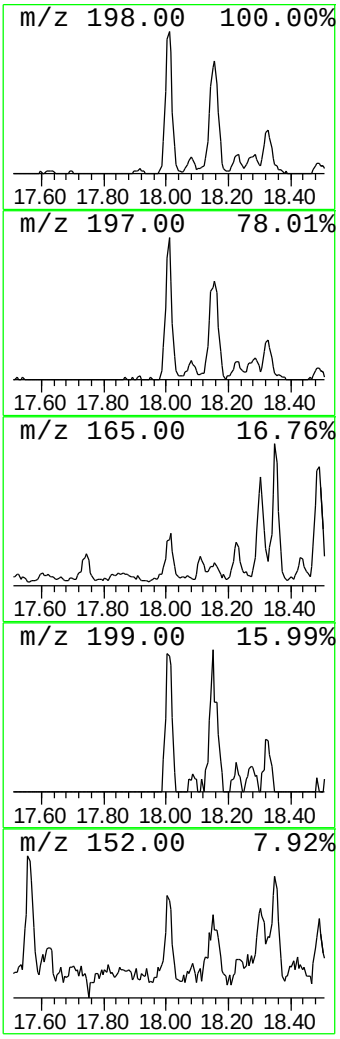
****

Peak Number 5 Dibenzothiophene, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	4.42 ng/ul	67145	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	89
2	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	86
3	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	78
4	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	72
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	72





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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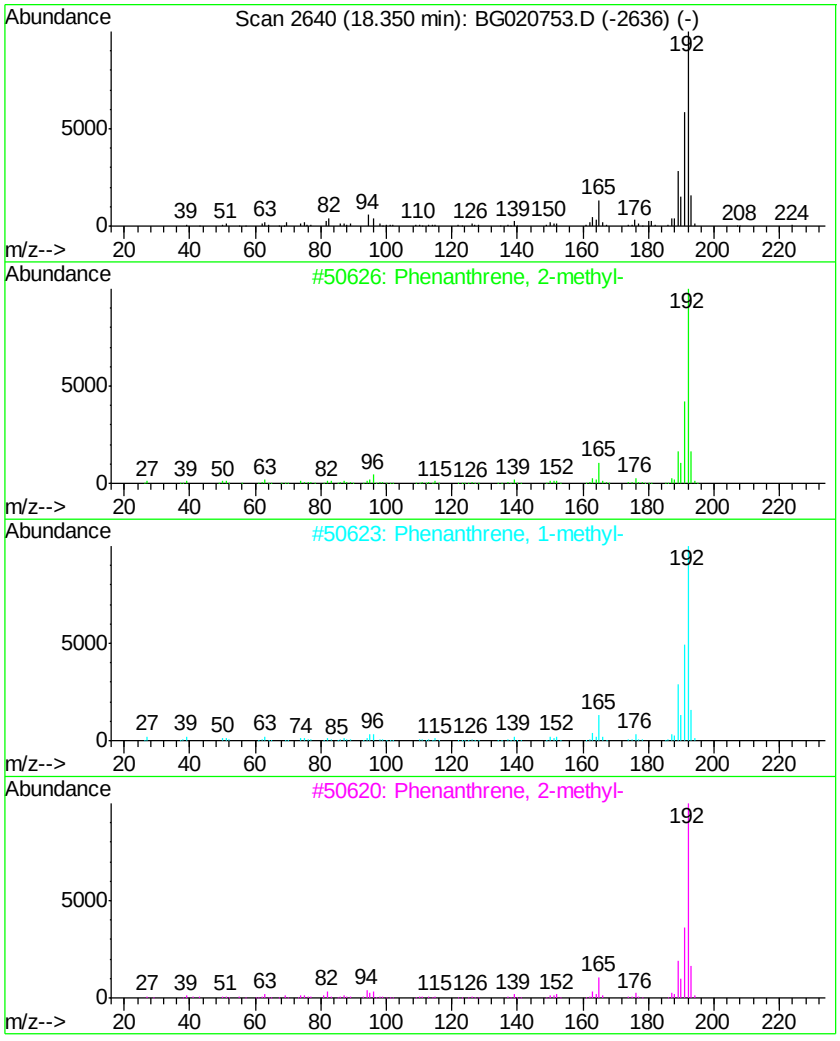
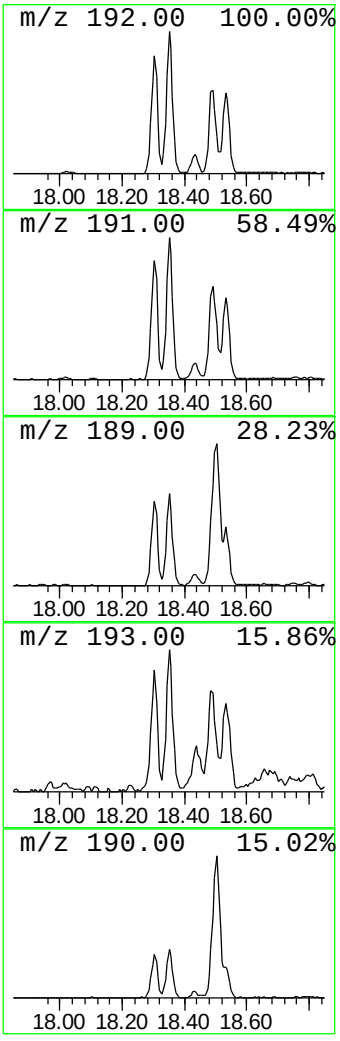
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.35	15.85 ng/ul	240872	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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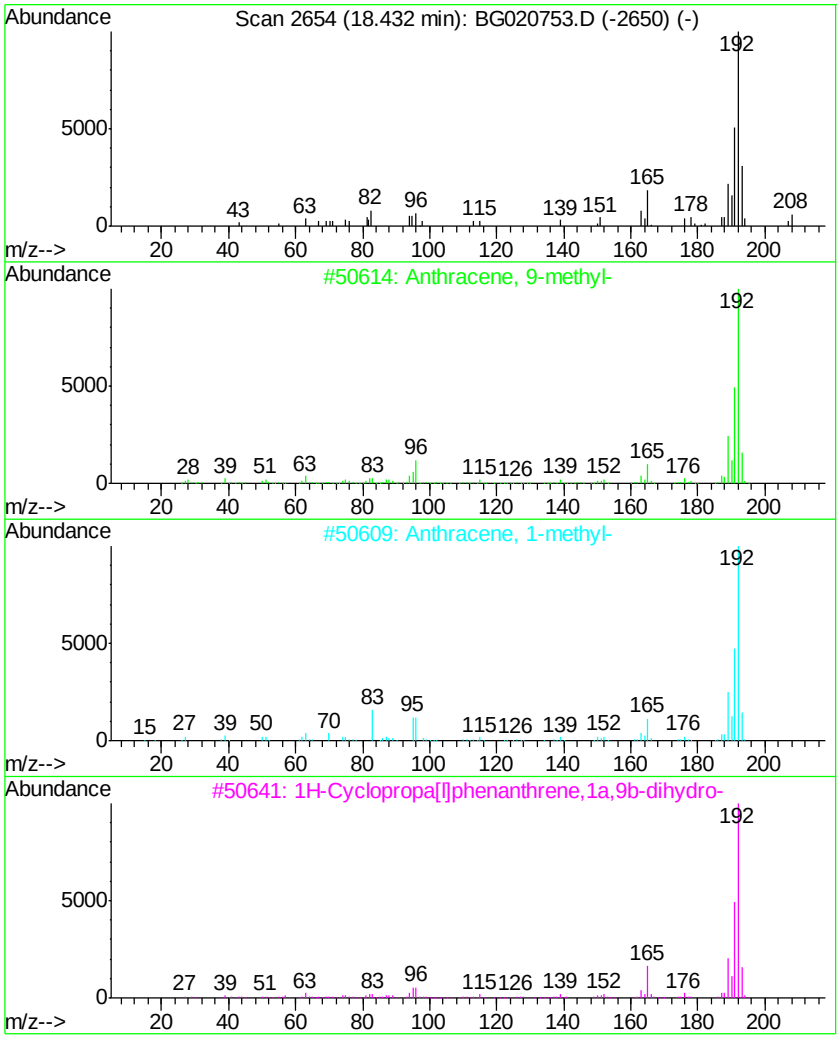
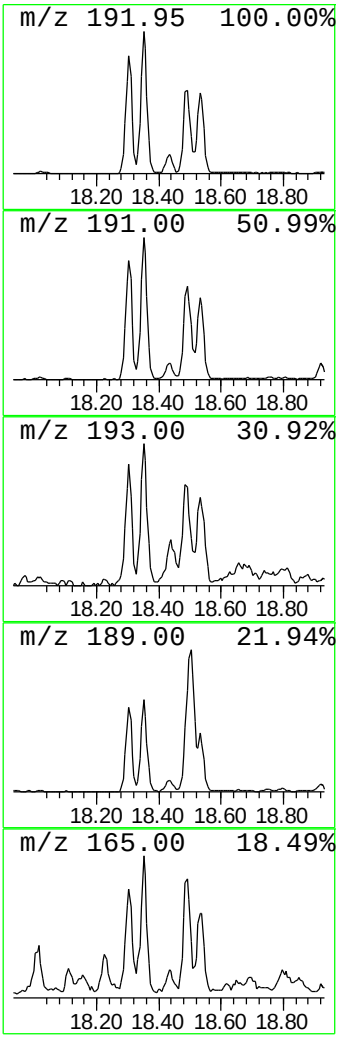
Peak Number 9 Anthracene, 9-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.43	2.12 ng/ul	32148	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	81
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	81
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81





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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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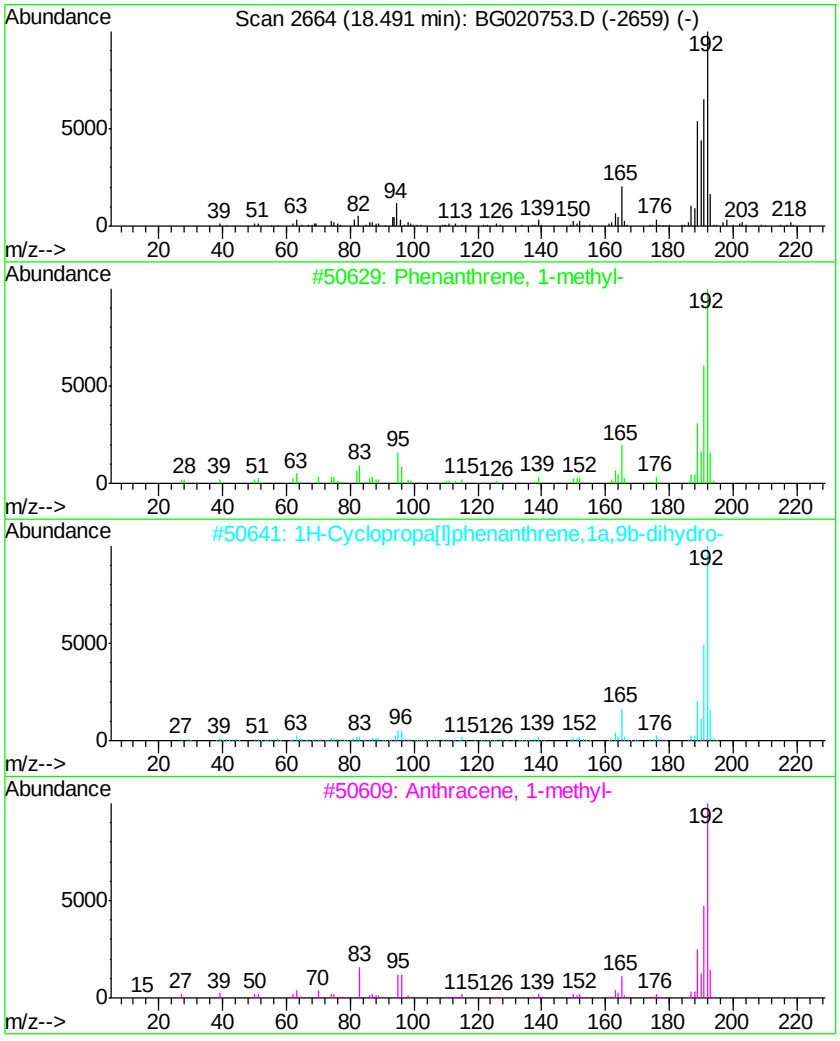
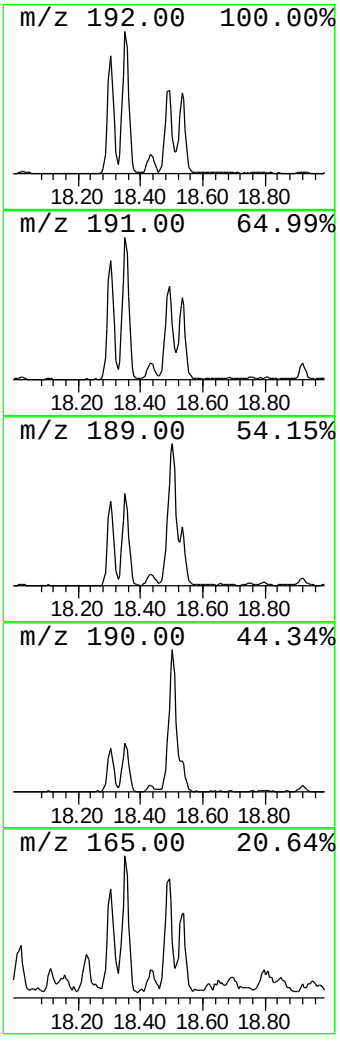
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	17.25 ng/ul	262157	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	60
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	55





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Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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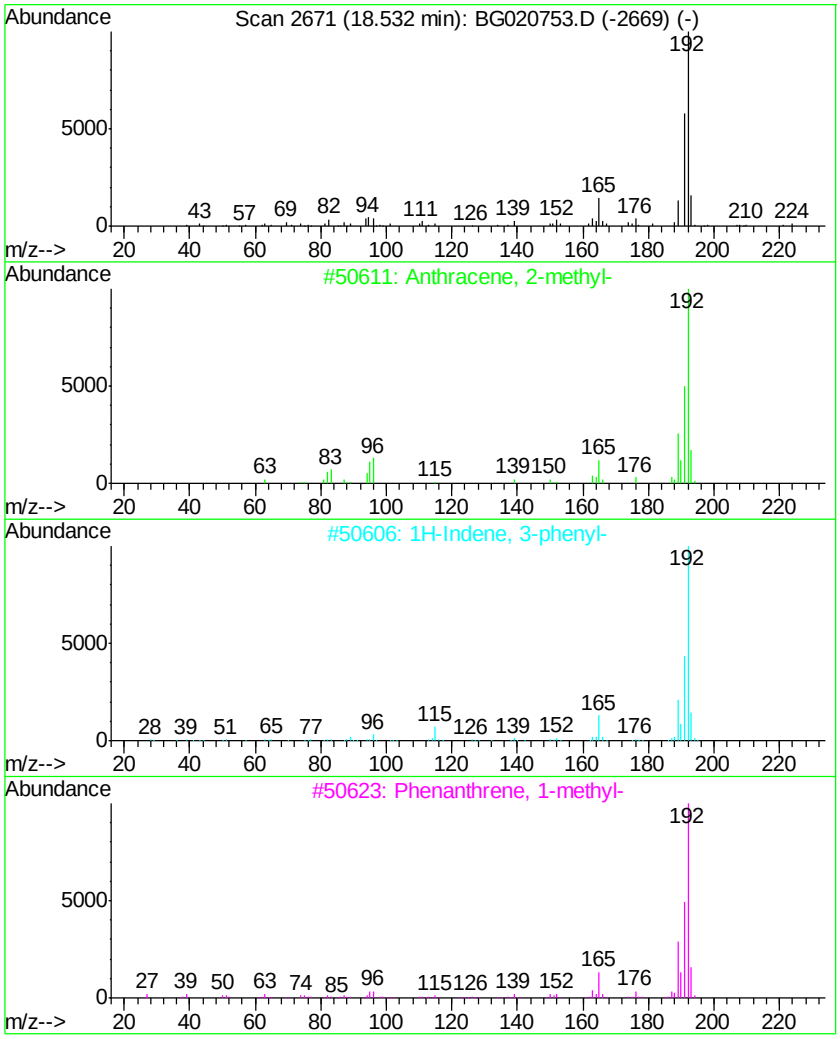
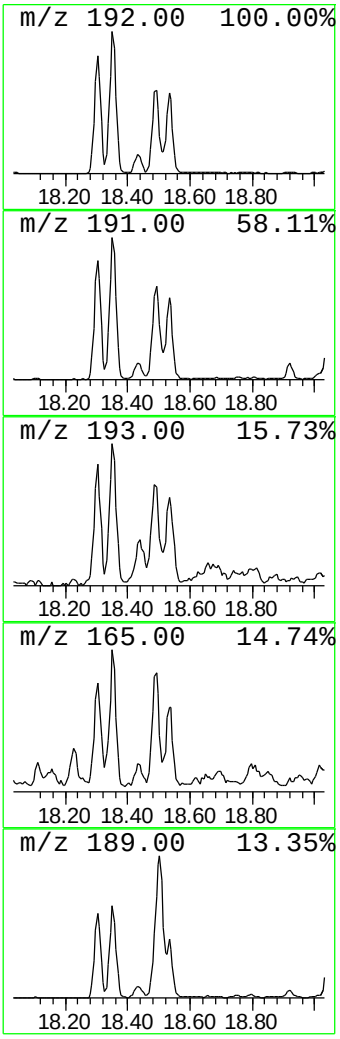
Peak Number 11 Anthracene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.53	7.60 ng/ul	115556	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	90
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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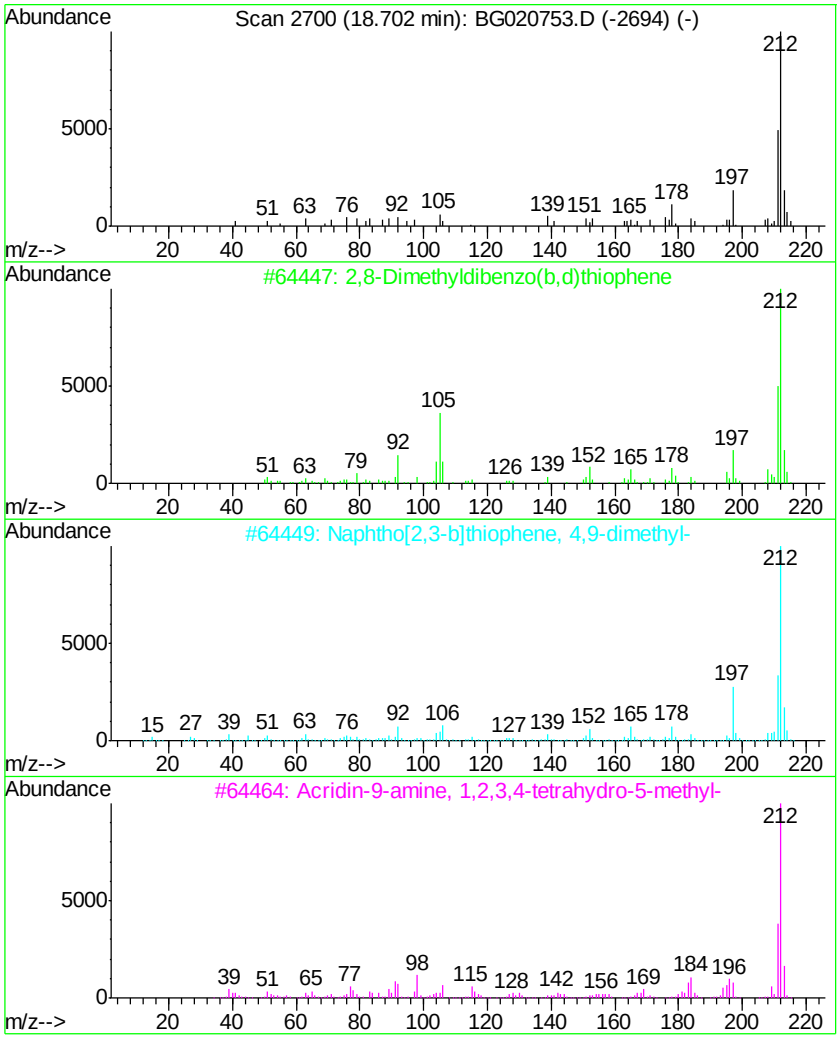
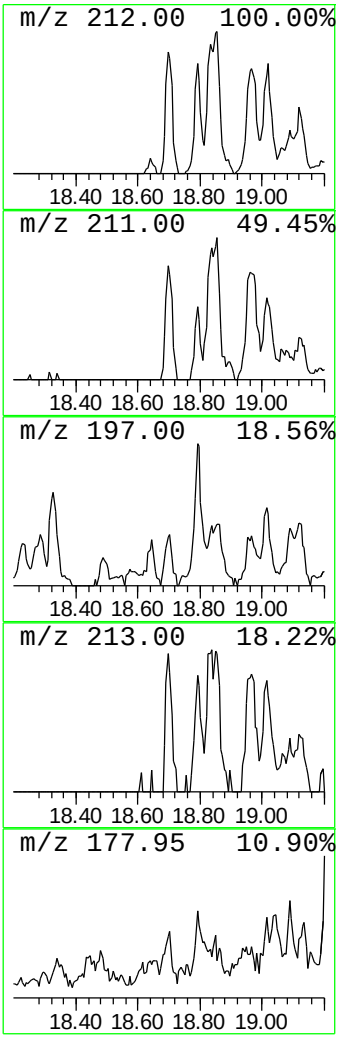
Peak Number 12 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	2.15 ng/ul	32604	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	94
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	74
3	Acridin-9-amine, 1,2,3,4-tetrahy...	212	C14H16N2	005778-78-9	56
4	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	50
5	[1,1'-Biphenyl]-4,4'-diamine, 3,...	212	C14H16N2	000119-93-7	50





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Acq On : 15 Jan 2016 15:22
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Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

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Quant Title : SVOA CALIBRATION

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

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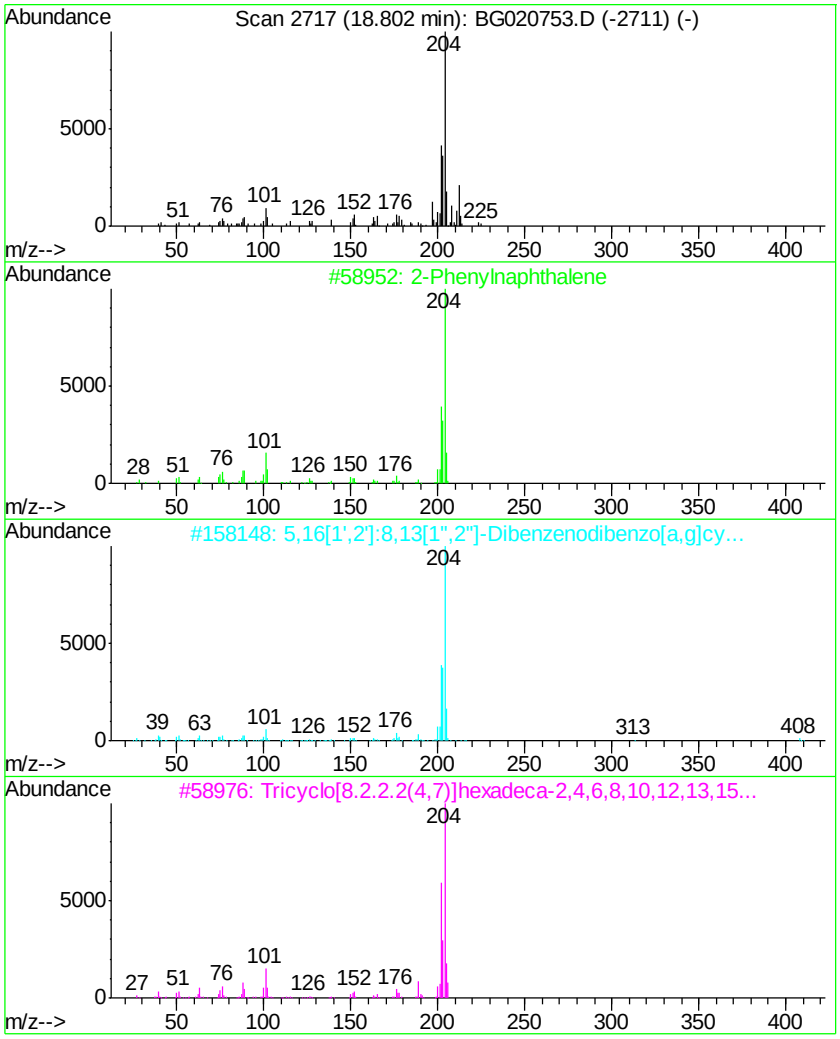
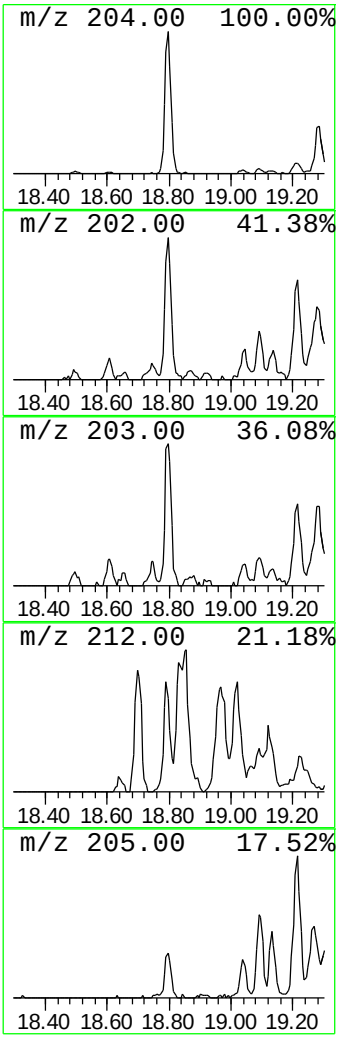
Peak Number 13 2-Phenylnaphthalene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	7.38 ng/ul	112167	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	70
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	55
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55





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Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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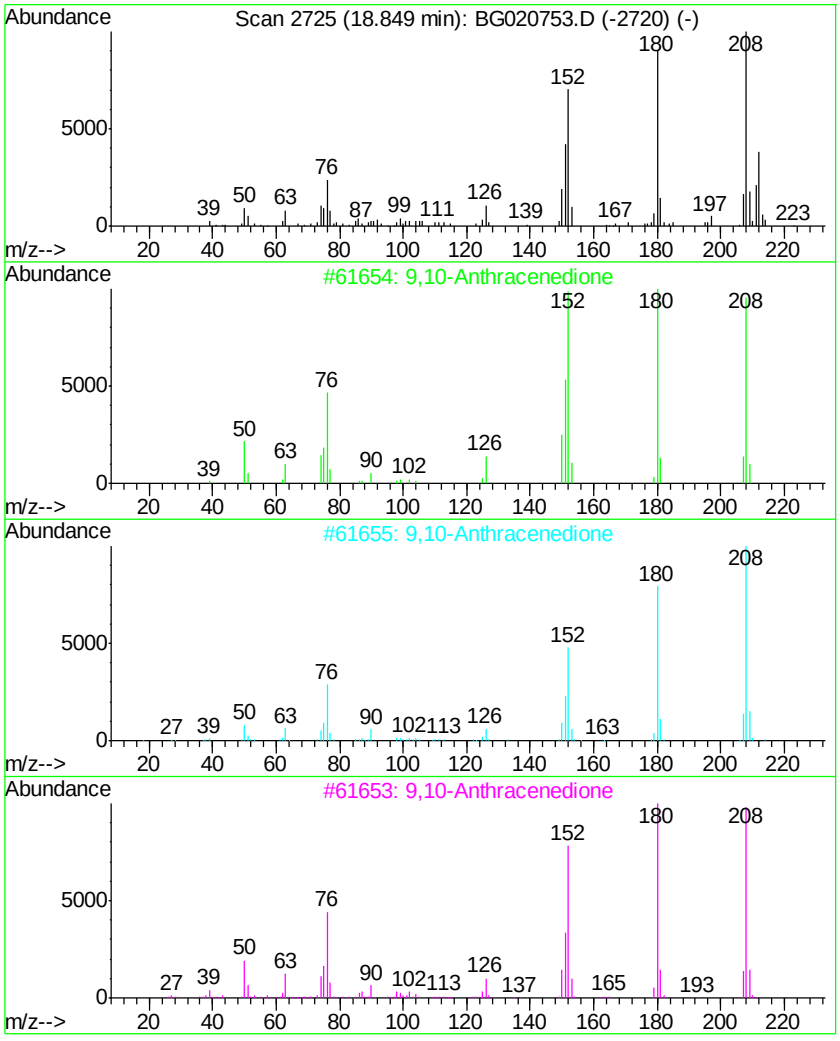
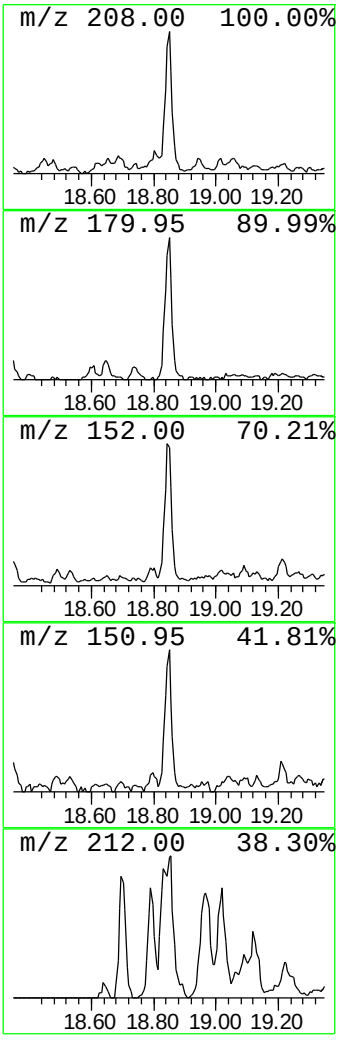
Peak Number 14 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	9.87 ng/ul	150016	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	92
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	76
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	46





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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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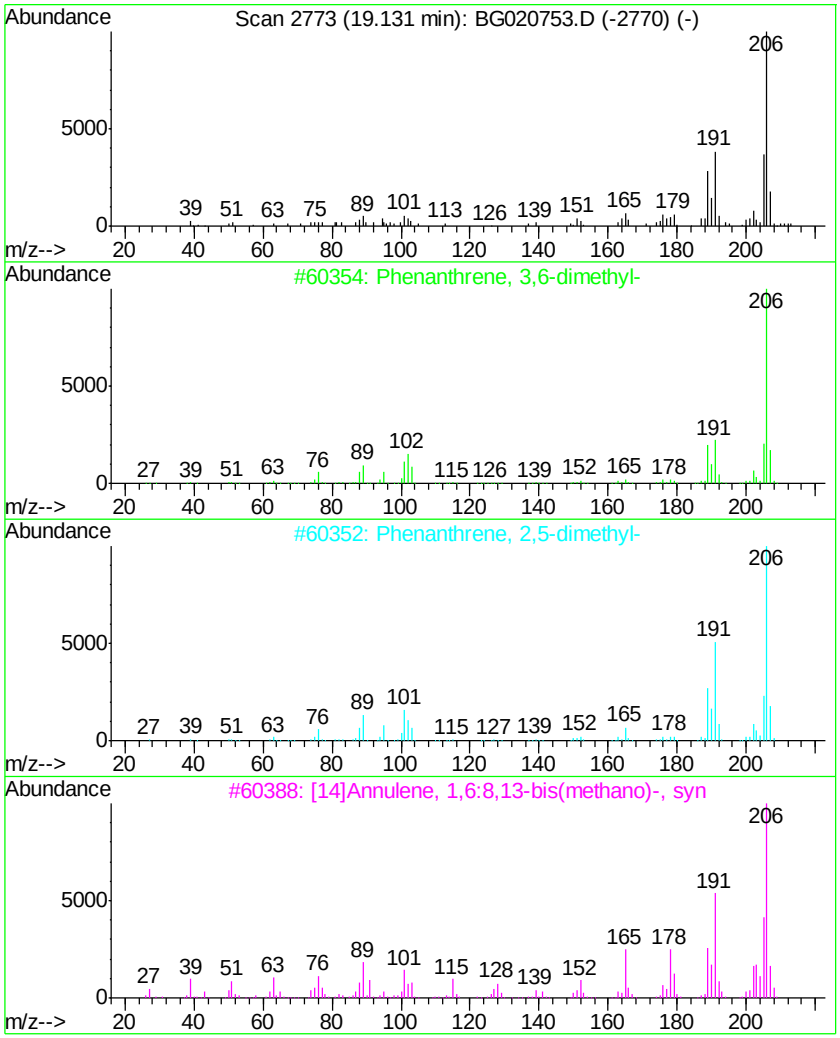
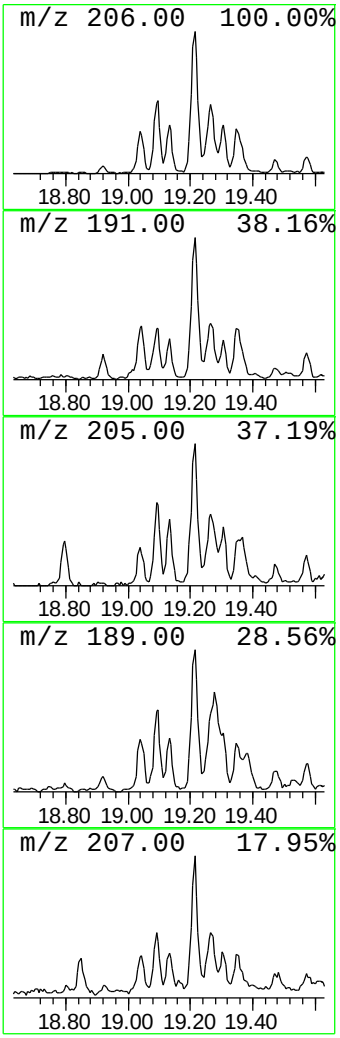
Peak Number 17 Phenanthrene, 3,6-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.13	4.60 ng/ul	69898	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	87
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	83
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83





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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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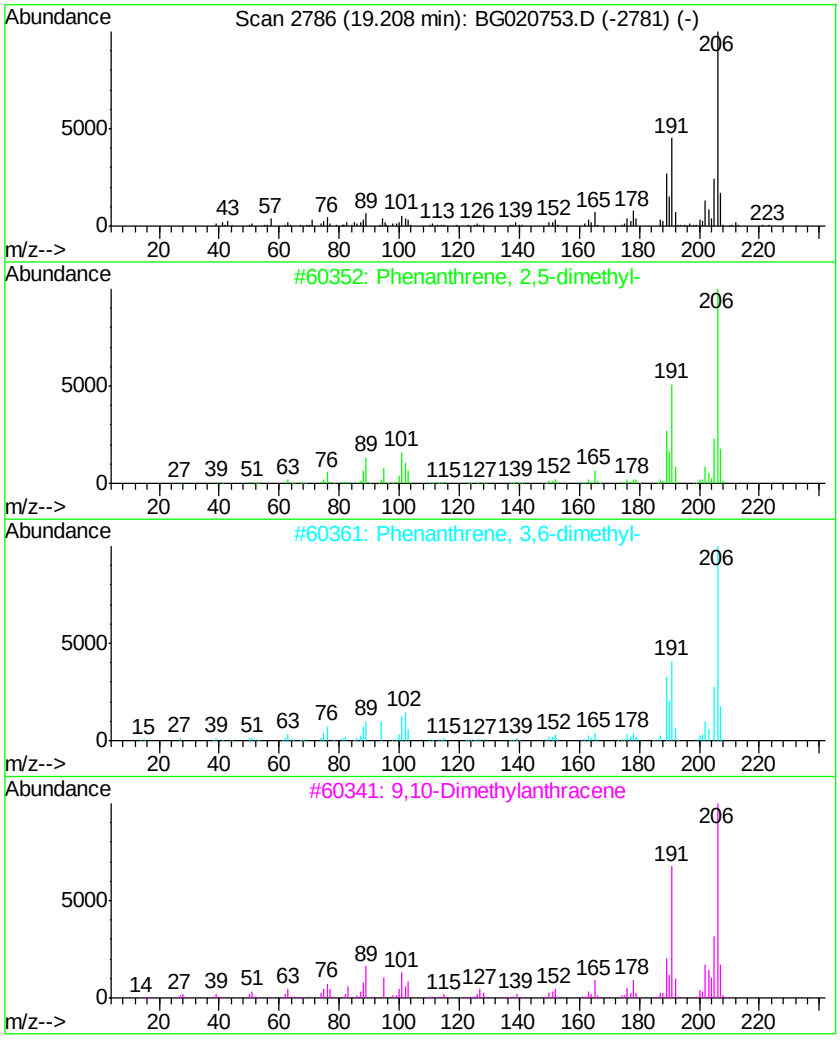
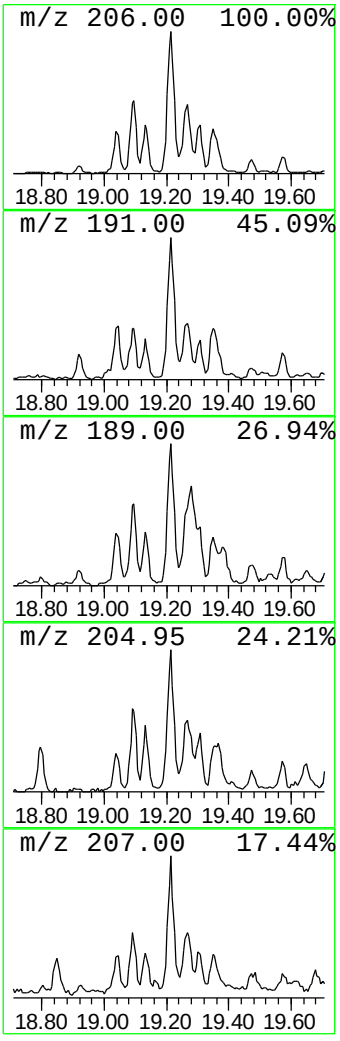
Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.21	17.75 ng/ul	269686	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	87





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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

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Quant Title : SVOA CALIBRATION

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

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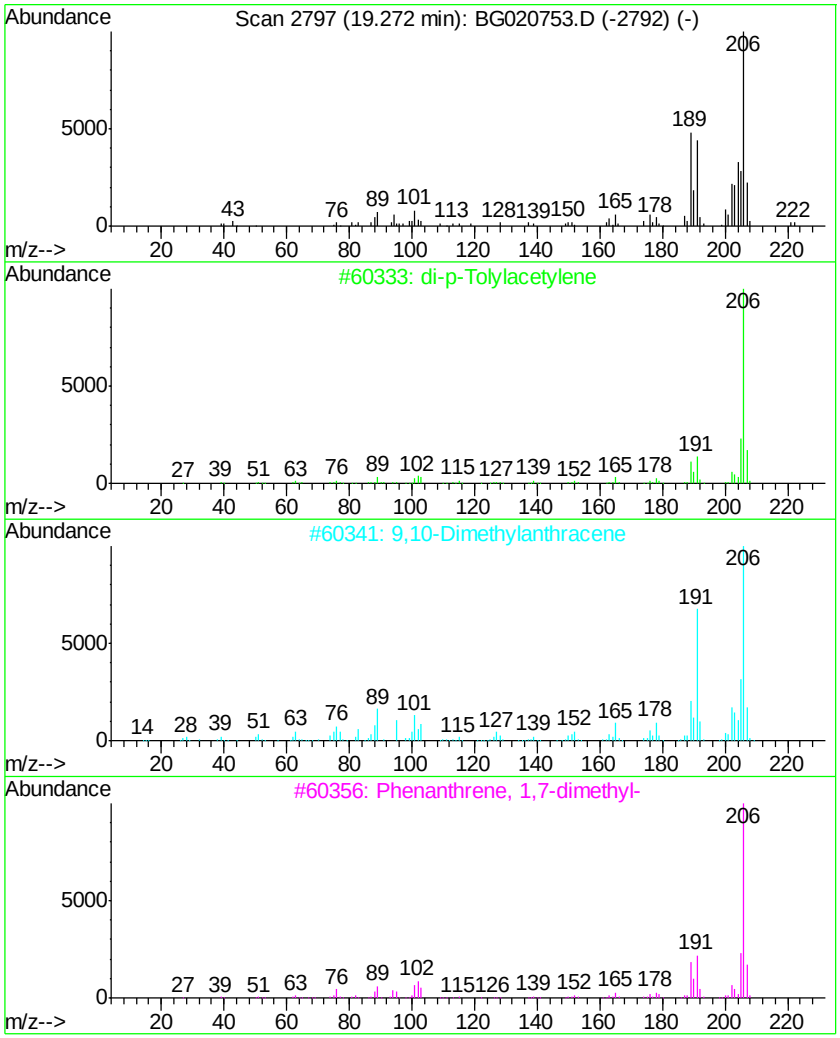
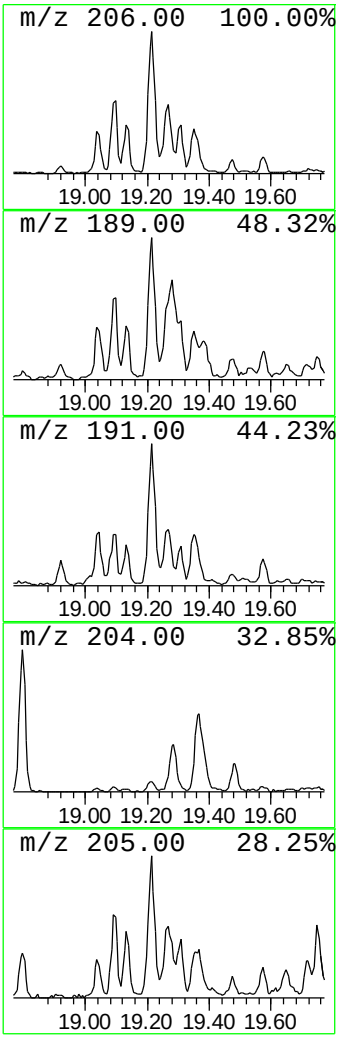
Peak Number 19 di-p-Tolylacetylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	5.03 ng/ul	76506	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

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Quant Title : SVOA CALIBRATION

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

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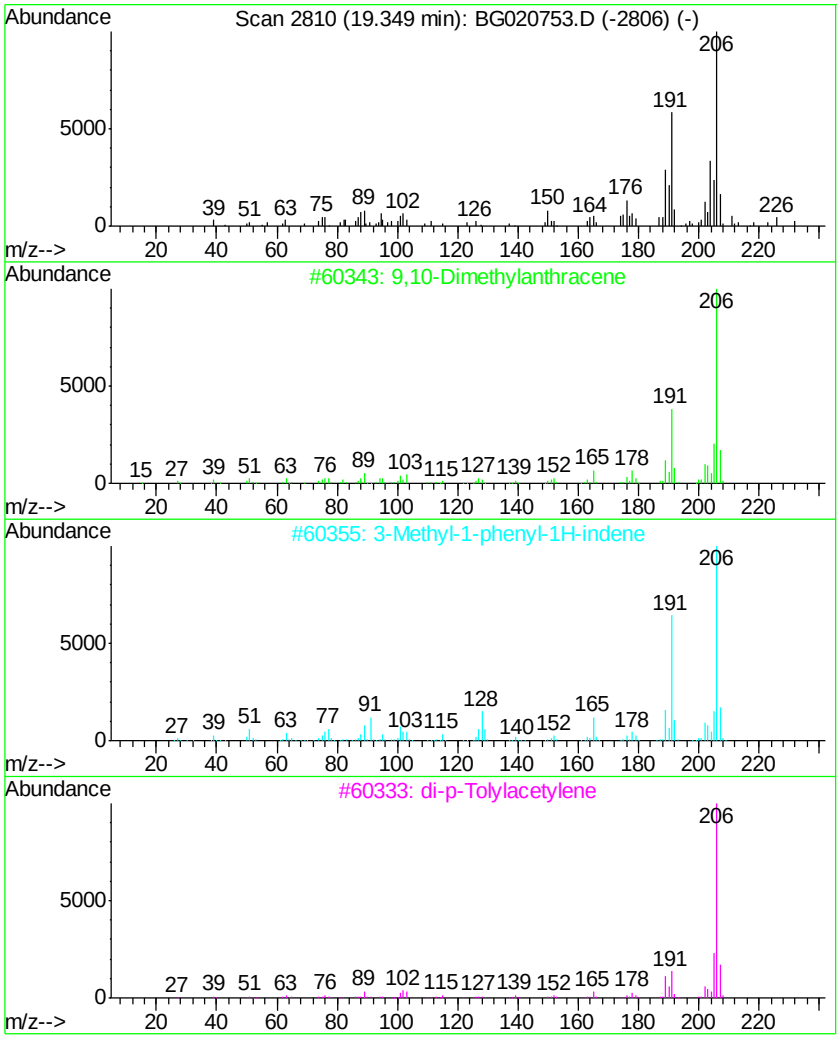
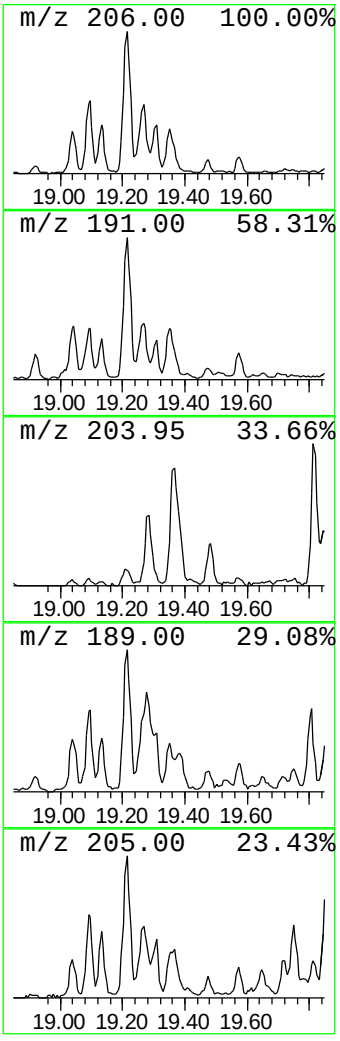
Peak Number 20 9,10-Dimethylanthracene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.35	9.52 ng/ul	144658	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
2	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	55
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	53
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	50
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	50





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Data File : BG020753.D
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Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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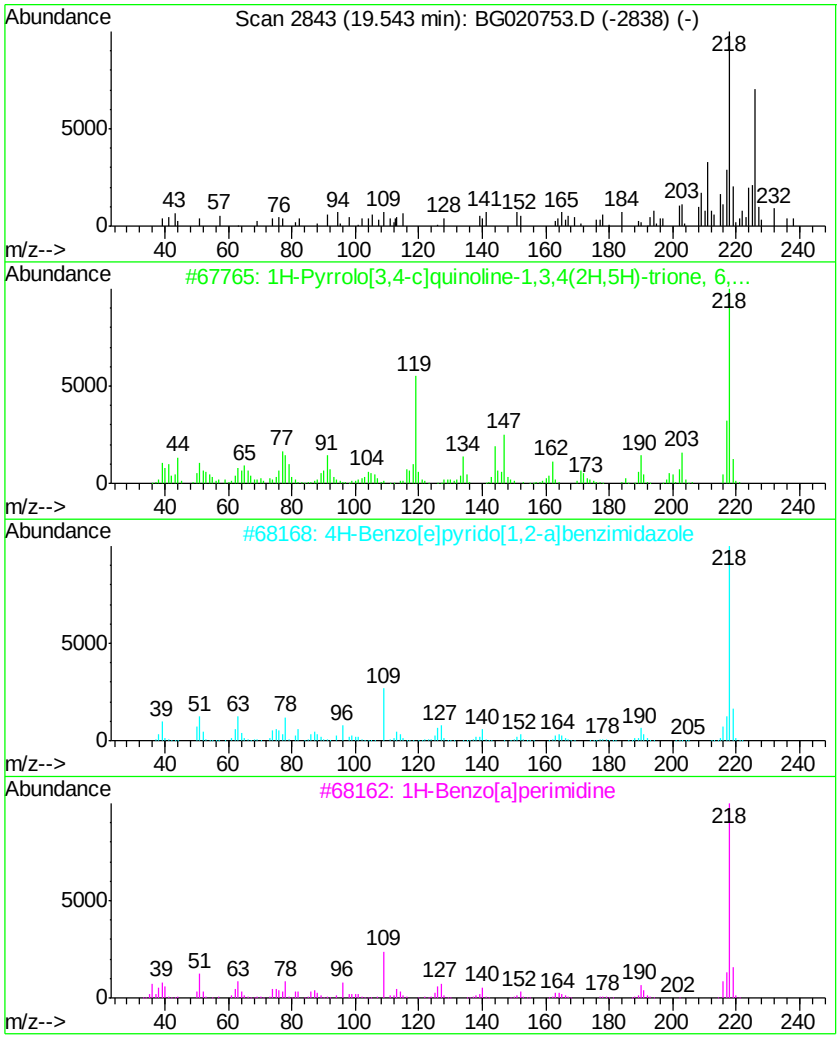
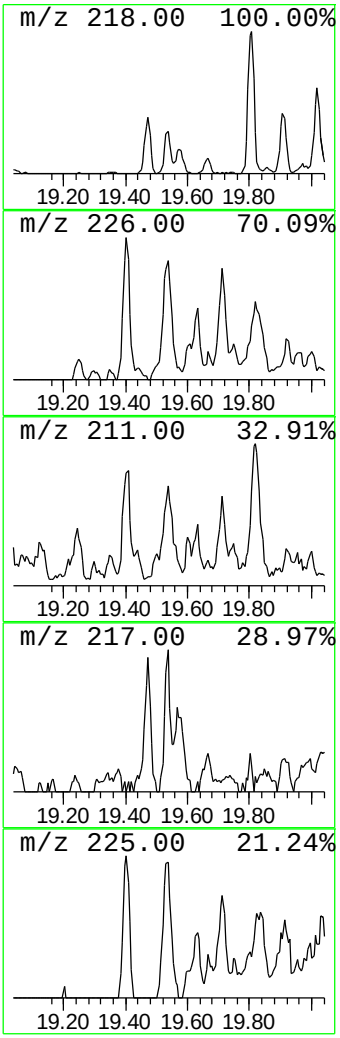
Peak Number 21 unknown-01 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.54	3.51 ng/ul	53341	Phenanthrene-d10	17.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrolo[3,4-c]quinoline-1,3,4...	218	C11H10N2O3	181021-85-2	38
2	4H-Benzo[e]pyrido[1,2-a]benzimid...	218	C15H10N2	000239-25-8	38
3	1H-Benzo[a]perimidine	218	C15H10N2	000200-42-0	35
4	1H-Cyclopenta[l]phenanthrene, 2,...	218	C17H14	000723-98-8	30
5	Naphthalene, 2-(phenylmethyl)-	218	C17H14	000613-59-2	30





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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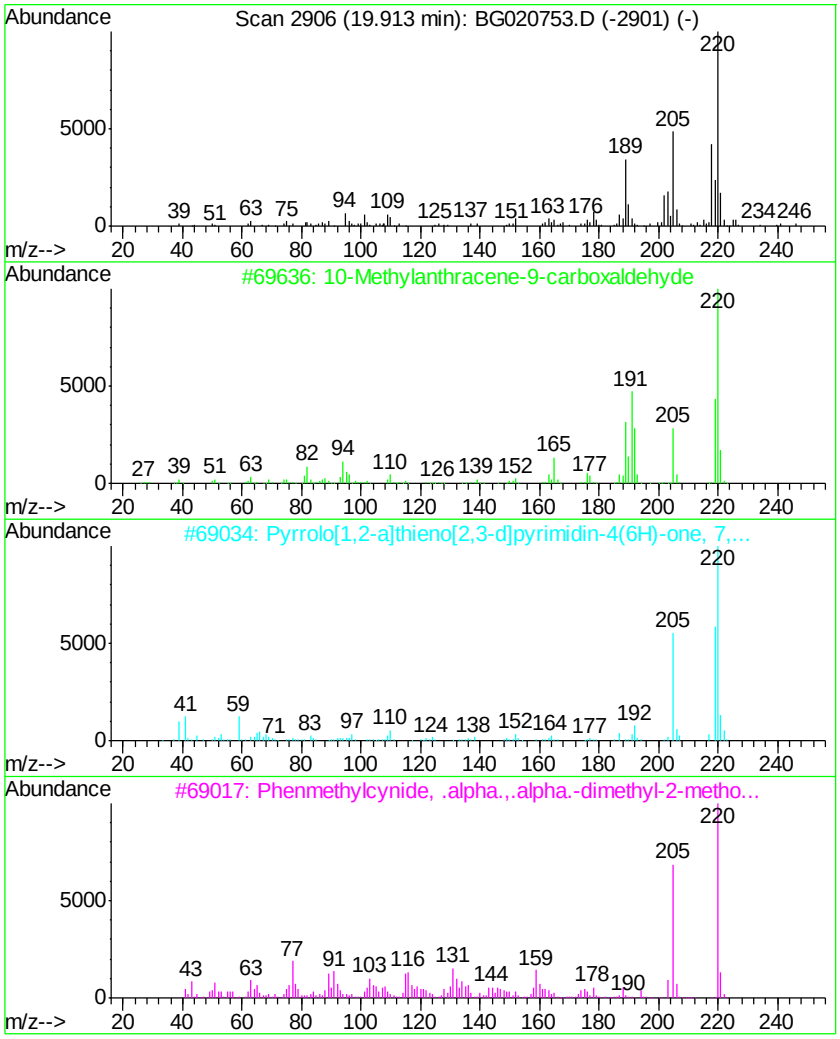
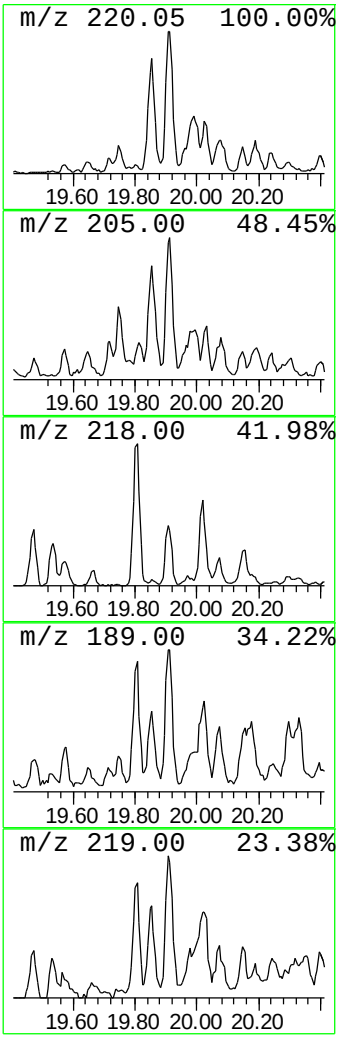
Peak Number 22 unknown-02 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.91	3.00 ng/ul	141776	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylanthracene-9-carboxalde...	220	C16H12O	007072-00-6	47
2	Pyrrolo[1,2-a]thieno[2,3-d]pyrim...	220	C11H12N2OS	056929-61-4	46
3	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	43
4	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	42
5	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	40





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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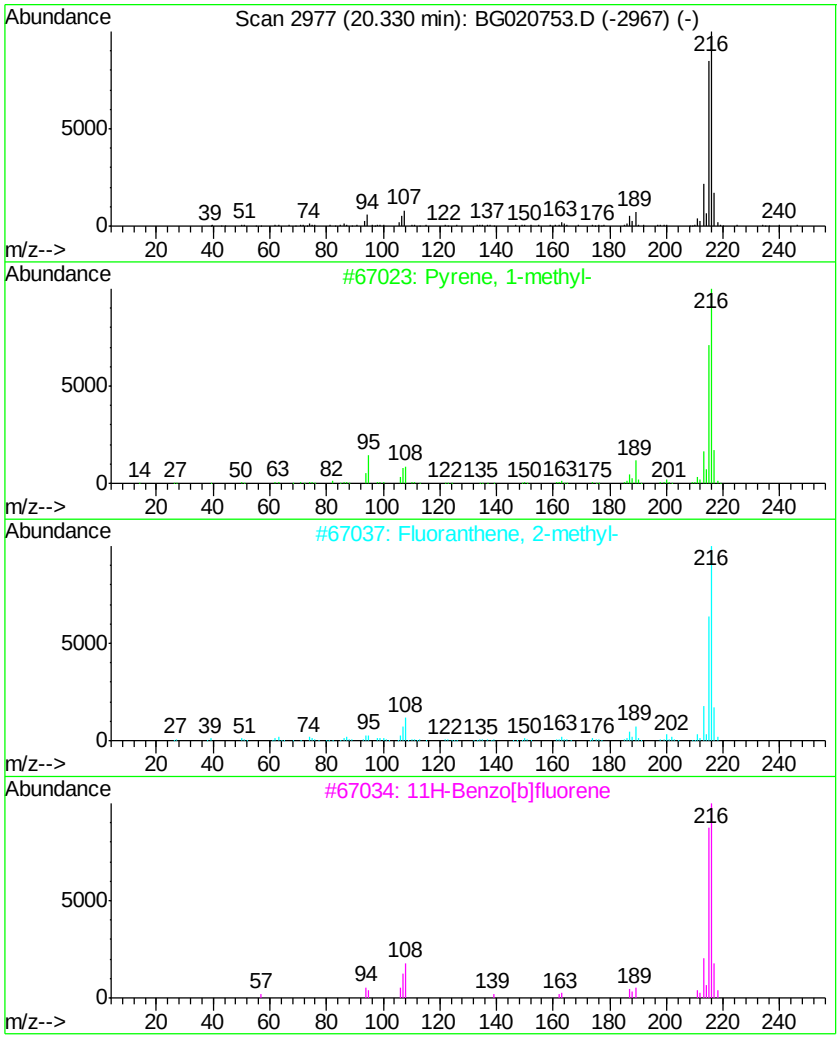
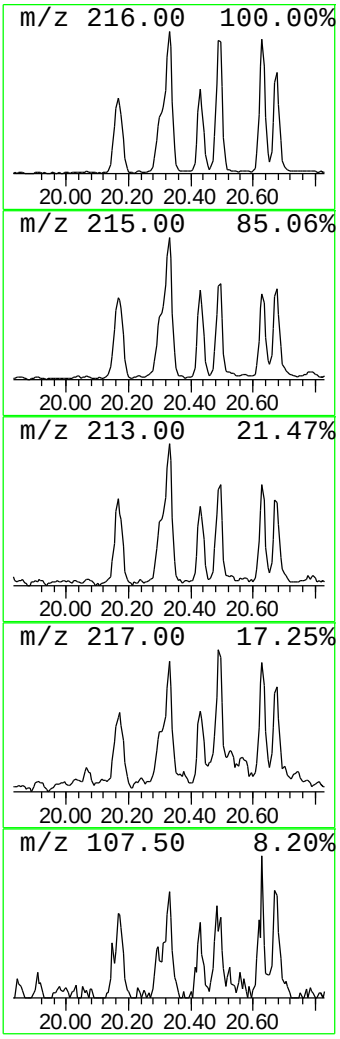
Peak Number 24 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.33	6.71 ng/ul	317291	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91





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Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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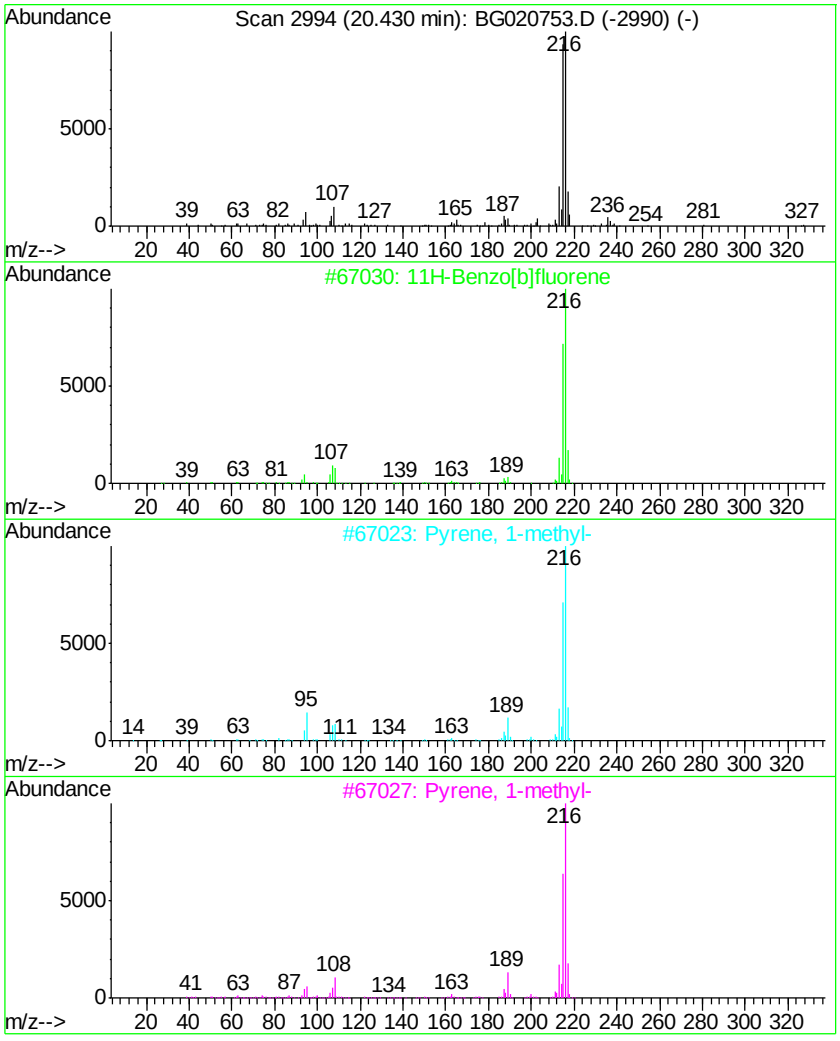
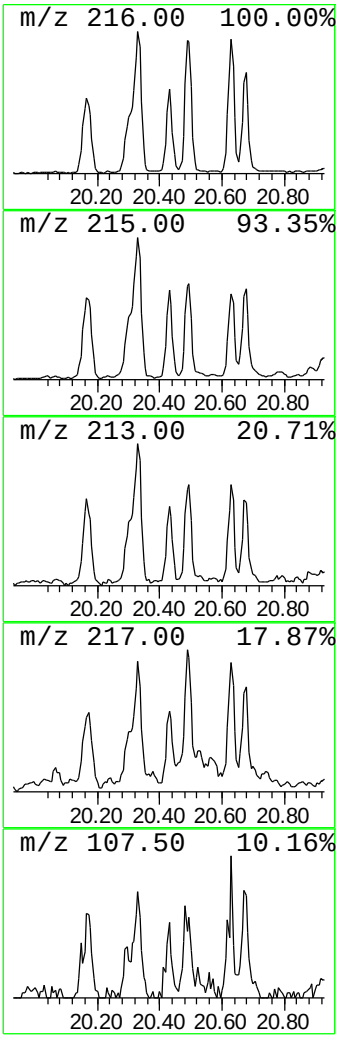
Peak Number 25 11H-Benzo[b]fluorene Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.43	2.08 ng/ul	98273	Chrysene-d12	21.70

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





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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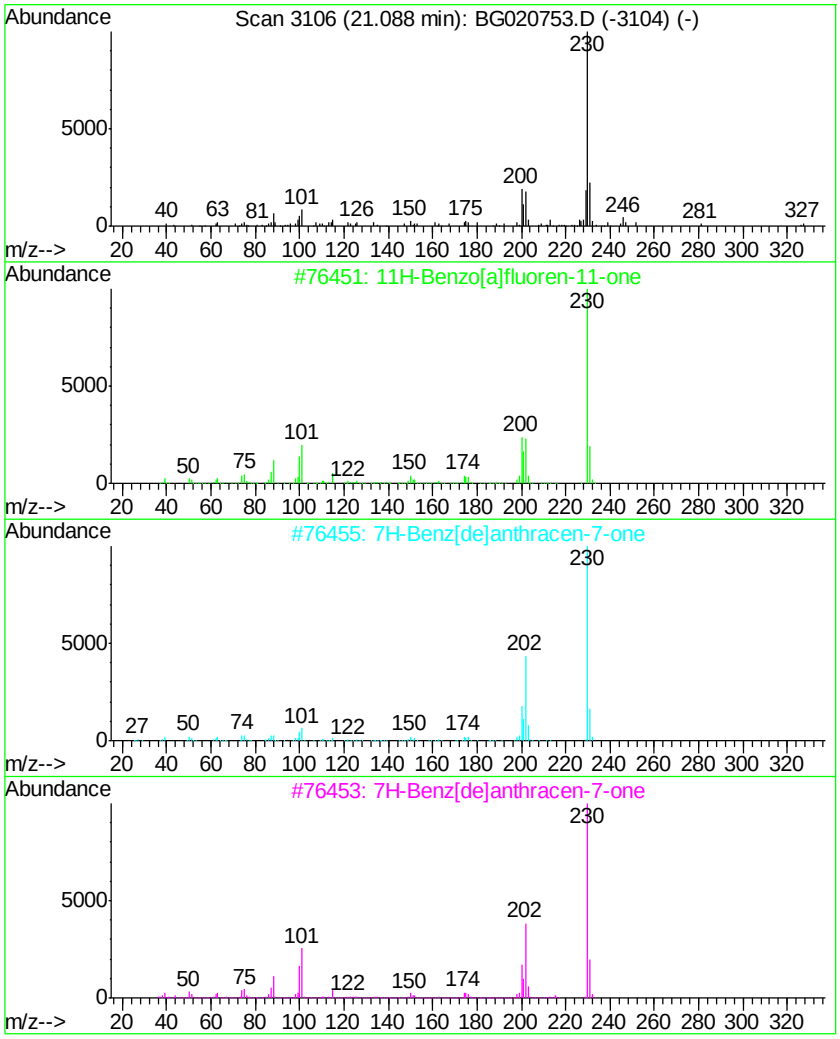
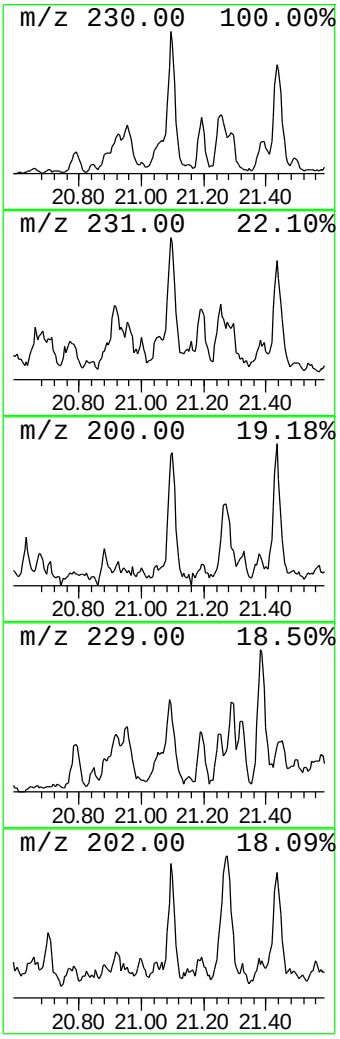
Peak Number 29 11H-Benzo[a]fluoren-11-one Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.09	2.71 ng/ul	128136	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	90
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	86
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
4	m-Terphenyl	230	C18H14	000092-06-8	70
5	p-Terphenyl	230	C18H14	000092-94-4	64





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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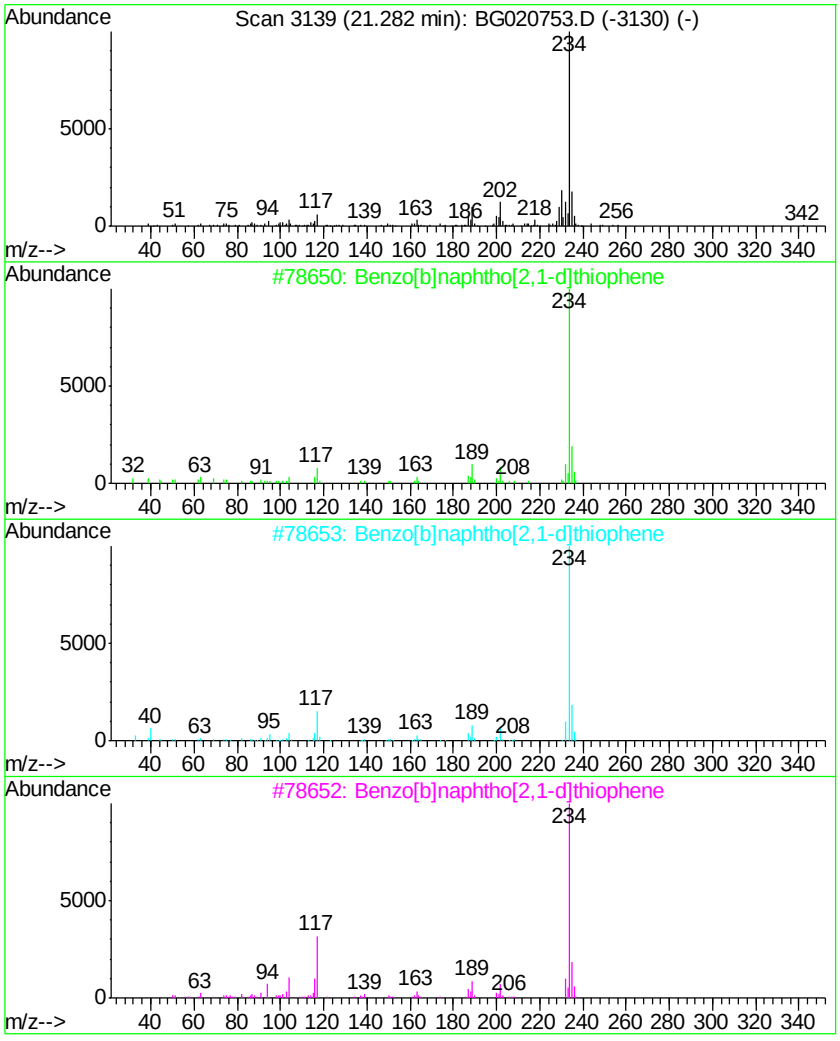
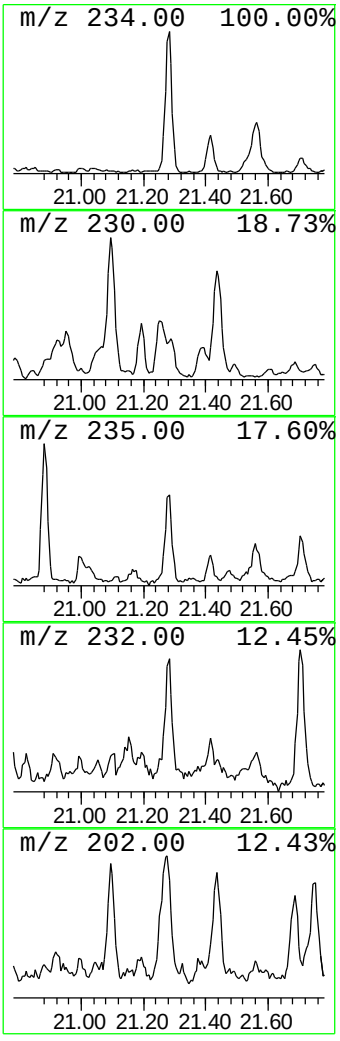
Peak Number 30 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.28	4.81 ng/ul	227216	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	89
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	87
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	81
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	81





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.M
Quant Title : SVOA CALIBRATION

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

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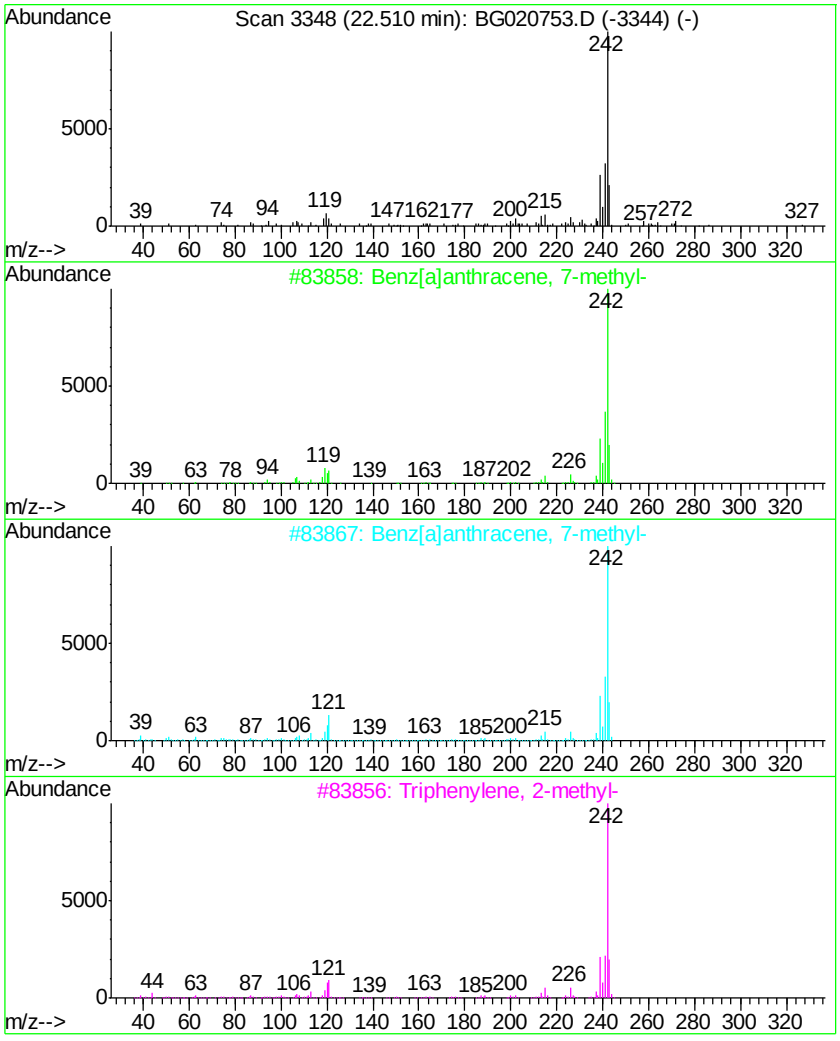
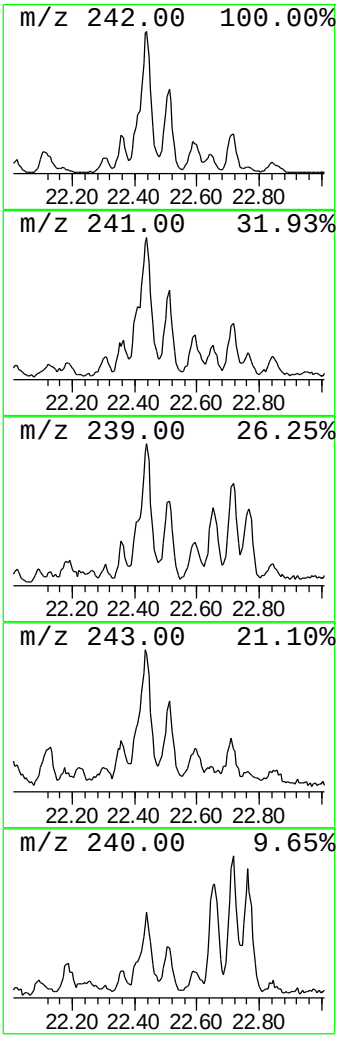
Peak Number 31 Benz[a]anthracene, 7-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.51	2.12 ng/ul	100421	Chrysene-d12	21.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	81
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	81
5	Benz[a]anthracene, 3-methyl-	242	C19H14	002498-75-1	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG011516\
Data File : BG020753.D
Acq On : 15 Jan 2016 15:22
Operator : SJ/IZ
Sample : H1101-15 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BC9F6

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011216.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
(DEL) Alkane: Cyc...	3.05	4.4	ng/ul	23224	1	8.04	106214	20.0
Butane, 2-methoxy...	3.13	3.4	ng/ul	18242	1	8.04	106214	20.0
9H-Fluoren-9-one	17.09	2.1	ng/ul	32655	4	17.43	303952	20.0
Dibenzothiophene	17.25	3.0	ng/ul	45345	4	17.43	303952	20.0
Dibenzothiophene,...	18.01	4.4	ng/ul	67145	4	17.43	303952	20.0
Phenanthrene, 2-m...	18.35	15.9	ng/ul	240872	4	17.43	303952	20.0
Anthracene, 9-met...	18.43	2.1	ng/ul	32148	4	17.43	303952	20.0
Phenanthrene, 1-m...	18.49	17.3	ng/ul	262157	4	17.43	303952	20.0
Anthracene, 2-met...	18.53	7.6	ng/ul	115556	4	17.43	303952	20.0
2,8-Dimethyldiben...	18.70	2.1	ng/ul	32604	4	17.43	303952	20.0
2-Phenylnaphthalene	18.80	7.4	ng/ul	112167	4	17.43	303952	20.0
9,10-Anthracenedione	18.85	9.9	ng/ul	150016	4	17.43	303952	20.0
Phenanthrene, 3,6...	19.13	4.6	ng/ul	69898	4	17.43	303952	20.0
Phenanthrene, 2,5...	19.21	17.8	ng/ul	269686	4	17.43	303952	20.0
di-p-Tolylacetylene	19.27	5.0	ng/ul	76506	4	17.43	303952	20.0
9,10-Dimethylanth...	19.35	9.5	ng/ul	144658	4	17.43	303952	20.0
unknown-01	19.54	3.5	ng/ul	53341	4	17.43	303952	20.0
unknown-02	19.91	3.0	ng/ul	141776	5	21.70	945399	20.0
Pyrene, 1-methyl-	20.33	6.7	ng/ul	317291	5	21.70	945399	20.0
11H-Benzo[b]fluorene	20.43	2.1	ng/ul	98273	5	21.70	945399	20.0
11H-Benzo[a]fluor...	21.09	2.7	ng/ul	128136	5	21.70	945399	20.0
Benzo[b]naphtho[2...	21.28	4.8	ng/ul	227216	5	21.70	945399	20.0
Benz[a]anthracene...	22.51	2.1	ng/ul	100421	5	21.70	945399	20.0